WILDWOOD

CITY COUNCIL AGENDA

COUNCIL CHAMBERS
7:30 P.M.
Monday, March 28, 2016

I. CALL TO ORDER

II. ROLL CALL

III. PLEDGE OF ALLEGIANCE

IV. APPROVAL OF MINUTES – March 14, 2016 Work Session & Regular Agenda Minutes

Documents: DRAFT MARCH 14, 2016 MINUTES.PDF

V. MAYOR APPOINTMENTS/ANNOUNCEMENTS

VI. PUBLIC PARTICIPATION

VII. PUBLIC HEARING(S)

VII.I. (Postponed At The January 11, 2016 City Council Meeting – To Remain Postponed)
A response to a communication from Jenny Mitchell, Director of Property Management for the Desco Group, which is dated October 20, 2015, regarding **St. Louis County's P.C. 219-85 Alfred L. Hicks and J.L. Mason of Missouri, Inc.;** Amended MXD Mixed-Use Development District; south side of Manchester Road, east of Old Fairway Drive (Street Address: 16506 Manchester Road/Locator Number: 23U120480); seeking modifications to an existing site-specific ordinance that governs the Schnucks Wildwood Crossing Center to allow for a third freestanding monument sign along the property's Manchester Road frontage. (Ward – Seven)

VIII. LEGISLATION

VIII.I. UNFINISHED BUSINESS

VIII.I.A. BILL #2162

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI ADOPTING THE RECOMMENDATION OF THE HISTORIC PRESERVATION COMMISSION REGARDING THE 'SECOND JOHN E. SCHNARR HOUSE' THAT IS LOCATED ON MANCHESTER ROAD (FORMERLY ROUTE 66) WITHIN THE COMMUNITY OF GROVER, THEREBY ALLOWING ITS PLACEMENT ON THE CITY'S HISTORIC REGISTRY AND PROVIDING CERTAIN INCENTIVES FOR SUCH RELATIVE TO REQUIRED PUBLIC SPACE AND ROADWAY IMPROVEMENTS. *Recommended by the Historic Preservation Commission* (Second Reading) (Ward – Eight)

Documents: 2162 BUTLER DURRELL-HISTORIC REGISTRY.PDF

VIII.I.B. BILL #2163

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING THE MAYOR OF THE CITY OF WILDWOOD, MISSOURI TO EXECUTE A CONTRACT WITH THE MISSOURI AMERICAN WATER COMPANY FOR THE RELOCATION OF A WATER MAIN TO ACCOMMODATE PHASE TWO CONSTRUCTION WITHIN WILDWOOD COMMUNITY PARK. *Recommended by the Department of Planning and Parks* (Second Reading) (Ward – One)

Documents: 2163 WATER COMPANY RELOCATION-COMMUNITY PARK.PDF

VIII.I.C. BILL #2164

AN ORDINANCE AUTHORIZING THE MAYOR TO EXECUTE CERTAIN AGREEMENTS AND DOCUMENTS IN ORDER TO PROCEED WITH OBTAINING FEDERAL FUNDING FOR THE MISSOURI ROUTE 109 PEDESTRIAN TUNNEL PROJECT, UNDER THE TRANSPORTATION ALTERNATIVES PROGRAM (TAP), AS AUTHORIZED BY THE FEDERAL TRANSPORTATION FUNDING ACT, MAP-21 (MOVING AHEAD FOR PROGRESS IN THE 21ST CENTURY) *Recommended by the Department of Public Works* (Second Reading) (Wards – One and Eight

Documents: 2164 FEDERAL FUNDING AGREEMENT FOR ROUTE 109 PED TUNNEL.PDF

VIII.I.D. BILL #2165

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING THE MAYOR OF THE CITY OF WILDWOOD, MISSOURI TO EXECUTE AN AMENDED CONTRACT ON BEHALF OF IT WITH OATES ASSOCIATES FOR ITS ON-GOING DEVELOPMENT OF ENGINEERED DRAWINGS/PLANS, ALONG WITH CONSTRUCTION MANAGEMENT AND ADMINISTRATION, FOR THE EXTENSION OF THE PARK'S INTERNAL ROADWAY, TO THE WESTERN TERMINUS OF POND-GROVER LOOP ROAD, IN ASSOCIATION WITH THE COMMUNITY PARK PROJECT – PHASE 2, CONSISTENT WITH THE ATTACHED CONTRACT AND EXHIBITS, WHICH ARE BEING RECOMMENDED BY THE PLANNING/ECONOMIC DEVELOPMENT/PARKS COMMITTEE OF CITY COUNCIL. *Recommended by the Planning/Economic Development/Parks Committee* (Second Reading) (Wards – All)

Documents: 2165 AMENDED 2099 OATES - PHASE IA COMMUNITY PARK.PDF

VIII.II. NEW BUSINESS

VIII.II.A. BILL #2166

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING A CHANGE TO PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT ORDINANCE #2042, WHICH WOULD TRANSFER THE RESPONSIBILITY OF MAINTAINING AN ELEVEN (11) FOOT WIDE LANDSCAPE EASEMENT AREA THAT IS LOCATED IN THE WILDWOOD TRAIL SUBDIVISION FROM THAT HOMEOWNERS ASSOCIATION TO THE TOWNS AT WINDRUSH SUBDIVISION'S HOMEOWNERS ASSOCIATION, ALL BEING CONSISTENT WITH THE PLANNING AND ZONING COMMISSION'S LETTER OF RECOMMENDATION ON THIS MATTER DATED MARCH 7, 2016. *Recommended by the Planning and Zoning Commission* (First Reading) (Ward – Eight)

Documents: 2166 PZ 3,4,5, AND 6-14 WILDWOOD TRAIL SUBDIVISION.PDF

VIII.II.B. BILL #2167

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AUTHORIZING THE CITY ADMINISTRATOR OF THE CITY OF WILDWOOD, MISSOURI TO EXECUTE ANY AND ALL AGREEMENTS WHICH ARE NECESSARY FOR THE MIGRATION OF THE EMPLOYEE RETIREMENT PLAN TO AMERICAN UNITED LIFE INSURANCE COMPANY, INCLUDING ASSOCIATED ADVISORY AGREEMENTS WITH R. T. JONES CAPITAL EQUITIES MANAGEMENT, INC., MESIROW FINANCIAL INVESTMENT MANAGEMENT, INC., AND CUTTER & COMPANY. *Recommended by the Administration/Public Works Committee Meeting*

(First Reading) (Wards – All)

Documents: 2167 EMPLOYEE RETIREMENT PLAN.PDF

VIII.II.C. BILL #2168
AN ORDINANCE AMENDING TWO SECTIONS OF CHAPTER 110 OF THE CITY OF WILDWOOD, MISSOURI MUNICIPAL CODE. *Recommended by the City Attorney* (First Reading) (Wards – All)

Documents: 2168 AMENDING CHAPTER 110.PDF

VIII.II.D. BILL #2169
AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF THE CITY OF WILDWOOD, TITLE II. PUBLIC HEALTH, SAFETY AND WELFARE, BY ADDING A WET WEATHER TRAIL POLICY IN CHAPTER 235: Parks and Recreation Regulations. *Recommended by the Planning/Economic Development/Parks Committee* (Wards – All)

Documents: 2169 WET WEATHER TRAIL POLICY.PDF

VIII.III. RESOLUTIONS

VIII.III.A. RESOLUTION #2016-08
A RESOLUTION BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING THE CITY ADMINISTRATOR OF THE CITY OF WILDWOOD, MISSOURI TO EXECUTE A PURCHASE ORDER FOR A NEW GATE STRUCTURE, WITH KEYPADS, FOR THE CITY'S DOG PARK FACILITY IN COMMUNITY PARK. *Recommended by the Planning/Economic Development/Parks Committee* (Wards – All

Documents: 2016-08 DOG PARK ENTRY MANAGEMENT SYSTEM.PDF

IX. OTHER

Documents: CONSTRUCTION PROJECT UPDATE 3-25-2016.PDF

IX.I. APPROVAL OF EXPENDITURES (Wards – All)

Documents: EXPENDITURES.PDF

IX.II. Receipt And File – A Recommendation Report Of The Planning And Zoning Commission On Phase II Of The Community Park; Approving The Site Development Plan. (Wards – All)

Documents: RECEIVE AND FILE - SITE DEVELOPMENT PLAN PHASE II COMMUNITY PARK.PDF

IX.III. Receipt And File – A Recommendation Report Of The Planning And Zoning Commission For P.Z. 21, 22, And 23-14 Stone Mill; Approving The Site Development Plan Package For A Twelve (12) Lot Residential Subdivision Located At The Terminus Of Center Avenue. (Ward – Eight)

Documents: RECEIVE AND FILE - PZ 21, 22, AND 23-14 STONE MILL PART 1.PDF, RECEIVE AND FILE - PZ 21, 22, AND 23-14 STONE MILL PART 2.PDF, RECEIVE AND FILE - PZ 21, 22, AND 23-14 STONE MILL PART 3.PDF

X. ADJOURNMENT

If you would like to submit a comment regarding an item on this meeting agenda, please visit the Form Center.

City Council Will Consider and Act upon the Matters Listed above and Such Others as May Be Presented at the Meeting and Determined to Be Appropriate for Discussion at That Time.

Notice is hereby given that the City Council may also hold a closed meeting for the purpose of dealing with matters relating to one or more of the following: Legal Actions, Causes of Action, Litigation or Privileged Communications Between the City's Representatives and its Attorneys [RSMO 610.021(1) 1994]; Lease, Purchase or Sale of Real Estate [RSMO 610.021 (2) 1994]; hiring, firing, disciplining or promoting employees by a public governmental body [RSMO 610.021 (3) 1994]; bidding specification [RSMO 610.021 (11) 1994]; sealed bids and related documents, until the bids are opened' and sealed proposals and related documents or any documents related to a negotiated contract until a contract is executed, or all proposals are rejected [RSMO 610.021 (12) 1994]; and/or individually identifiable personnel records, performance ratings or records pertaining to employees or applicants for employment [RSMO 610.021 (13) 1994]

The City of Wildwood Is Working to Comply with the Americans with Disabilities Act Mandates. Individuals Who Require an Accommodation to Attend a Meeting Should Contact City Hall, (636) 458-0440 at Least 48 Hours in Advance.

WILDWOOD

CITY OF WILDWOOD

MARCH 14, 2016 RECORD OF PROCEEDINGS

CITY OF WILDWOOD
MEETING OF CITY COUNCIL
WILDWOOD CITY HALL
16860 MAIN STREET
WILDWOOD, MO 63040

The meeting was called to order at 7:50 P.M.

A roll call was taken, with the following results:

Present at Roll Call:	Mayor Tim Woerther Council Member Greg Stine Council Member Jeff Levitt Council Member Debra McCutchen Council Member Dave Bertolino Council Member Sue Cullinane Council Member Jim Baugus Council Member Larry McGowen Council Member Glen DeHart Council Member Larry Goodson Council Member Joe Garritano Council Member Jim Bowlin Council Member Marc Cox Council Member Katie Dodwell Council Member Ed Marshall Council Member Ray Manton
Absent:	None

A quorum was present

Also present:	Mr. Ryan Thomas, City Administrator Mr. Rob Golterman, City Attorney Mr. Joe Vujnich, Director of Planning and Parks Mr. Rick Brown, Director of Public Works Ms. Laura Rechtin, Deputy City Clerk

DRAFT

PLEDGE OF ALLEGIANCE

Mayor Woerther led the Pledge of Allegiance.

APPROVAL OF MINUTES

The minutes of the February 22, 2016, City Council meeting were submitted for approval. A motion was made by Council Member McGowen, seconded by Council Member Baugus, to approve the minutes. A voice vote was taken with a unanimous affirmative result and the motion was declared passed.

MAYOR APPOINTMENTS/ANNOUNCEMENTS

Presentation to Ryan S. Thomas, City Administrator, on his twenty (20) years of service to the City of Wildwood

Mayor Woerther presented City Administrator Thomas a plaque and thanked him for his many years of service to the City of Wildwood.

Jerry W. Porter - Ward Six City Council Member for remaining term to April 2016

Mayor Woerther asked the City Council to approve his recommendation to appoint Mr. Jerry Porter to the City Council to represent Ward Six to fill the unexpired term. A motion was made by Council Member Marshall, seconded by Council Member Bowlin, to approve the Mayor's recommendation to appoint Mr. Jerry Porter to the City Council.

A roll call vote was taken with the following results:
Ayes – Stine, Levitt, McCutchen, Bertolino, Cullinane, Baugus, McGowen, DeHart, Goodson, Garritano, Bowlin, Cox, Dodwell, Marshall, and Manton
Nays – None
Absent – None
Whereupon Mayor Woerther declared the motion passed. Deputy City Clerk Rechtin swore in Mr. Jerry Porter.

Bills #2149 and #2150 – Veto Message
Mayor Woerther read his veto message.

Mr. Bill Kennedy, 48 Rockwood Forest Ridge, made comments regarding the increase in compensation for elected officials. Mr. Kennedy discussed some of the reasoning behind increased compensation. Mr. Kennedy gave a history of how the compensation was determined when the City was being incorporated. Mr. Kennedy stated many of the original Council Members donated their compensation the first year back to the City. Mr. Kennedy spoke in opposition of the increase in compensation for elected officials. Mr. Kennedy gave possible resolutions or actions the Council should consider regarding this matter.

BILL #2149 AN ORDINANCE DETERMINING THE COMPENSATION FOR THE OFFICE OF THE MAYOR AND AMENDING SECTION 110.040 OF THE MUNICIPAL CODE. (Wards – All)

A motion was made by Council Member McGowen, seconded by Council Member Marshall, to override the Mayor's veto of Bill #2149.

A roll call vote was taken with the following results:
Ayes – Stine, Levitt, McCutchen, Bertolino, McGowen, DeHart, Goodson, Garritano, Bowlin, Porter, Cox, Dodwell, and Marshall
Nays – Cullinane, Baugus and Manton

Absent – None
Bill #2149 passed and it became ORDINANCE #2149.

BILL #2150 AN ORDINANCE DETERMINING THE COMPENSATION FOR CITY COUNCIL MEMBERS AND AMENDING SECTION 110.110 OF THE MUNICIPAL CODE. (Wards – All)

Council Member Bowlin read comments regarding his motion to override the Mayor's veto of Bill #2150.

A motion was made by Council Member Bowlin, seconded by Council Member Levitt, to override the Mayor's veto of Bill #2150.

A roll call vote was taken with the following results:
Ayes – Stine, Levitt, McCutchen, Bertolino, McGowen, DeHart, Goodson, Garritano, Bowlin, Porter, Cox, Dodwell, and Marshall
Nays – Cullinane, Baugus and Manton
Absent – None
Bill #2150 passed and it became ORDINANCE #2150.

PUBLIC PARTICIPATION

Mr. Rick Stream, State Senate Candidate, introduced himself and welcome the Council to contact him at any time.

Mr. David Stokes, 7220 Green Way, stated he was with the Great Rivers Habitat Alliance and spoke regarding the Maryland Heights Resolution. Mr. Stokes thanked the Council for talking about this issue regardless of what they decide.

Mr. Jim Van Nest, 17133 Windsor Crest Blvd, spoke in favor of Bill #2159.

Mr. Tom Cummings, Payne Family Homes, thanked the City Council for their time and asked for clarification on what the next step was.

PUBLIC HEARING(S)

(Postponed at the January 11, 2016 City Council Meeting – to remain postponed)
A response to a communication from Jenny Mitchell, Director of Property Management for the Desco Group, which is dated October 20, 2015, regarding St. Louis County's P.C. 219-85 Alfred L. Hicks and J.L. Mason of Missouri, Inc.; Amended MXD Mixed-Use Development District; south side of Manchester Road, east of Old Fairway Drive (Street Address: 16506 Manchester Road/Locator Number: 23U120480); seeking modifications to an existing site-specific ordinance that governs the Schnucks Wildwood Crossing Center to allow for a third freestanding monument sign along the property's Manchester Road frontage. (Ward - Seven)

A response to the recording of a Record Plat, which was authorized on October 26, 2015 by the City Council, which established a landscape easement and arrangement for its on-going maintenance, regarding P.Z. 3, 4, 5, and 6-14 Wildwood Trail Subdivision - R-4 7,500 square foot Residence District, with a Planned Residential Development Overlay District (PRD); east side of State Route 109, north of Manchester Road (Locator Numbers 24V440122 and 24V440104/Street Addresses: 2516 and 2520 Highway 109). The recording of the Record Plat transferred the responsibility for an eleven (11) foot wide landscape easement area located on Lot 9 of the Wildwood Trail Subdivision from that Homeowners Association to the Towns at Windrush Homeowners Association, given this buffer was intended to be installed within that subdivision. (Ward - Eight)

Mayor Woerther opened the public hearing. Deputy City Clerk Rechtin read the public hearing into the record.

Director of Planning and Parks Vujnich reviewed the background and the letter of recommendation from the Planning and Zoning Commission regarding the transfer of the easement. Director of Planning and Parks Vujnich stated the Site Specific Ordinance needs to be modified to show what the record plat shows.

A motion was made by Council Member Baugus, seconded by Council Member McGowen, to authorize the Department of Planning to prepare the necessary legislation. A voice vote was taken with a unanimous affirmative result and the motion was declared passed.

UNFINISHED BUSINESS

BILL #2157 **AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING AMENDMENTS TO EXISTING AMENDED C-8 PLANNED COMMERCIAL DISTRICT ORDINANCE #1001 THAT WOULD AUTHORIZE THE ADDITION OF A SECOND DRIVE-THROUGH FACILITY IN THE DIERBERGS TOWN CENTER PROJECT, IN CONJUNCTION WITH A LINER BUILDING LOCATED ON OUTLET G, WHICH FRONTS ONTO THE INTERSECTION OF TAYLOR ROAD AND STATE ROUTE 100, BEING CONSISTENT WITH THE RECOMMENDATION REPORT PREPARED BY THE PLANNING AND ZONING COMMISSION DATED FEBRUARY 1, 2016. *Recommended by the Planning and Zoning Commission* (Second Reading) (Ward - Eight)**

A motion was made by Council Member Goodson, seconded by Council Member Garritano, for the second reading of Bill #2157. A voice vote was taken with an affirmative result and the motion was declared passed (Bowlin voted Nay, Levitt abstained). Bill #2157 was read for the second time by title only.

A roll call vote was taken for passage and approval of Bill #2157 with the following results:
Ayes – Stine, McCutchen, Bertolino, Cullinane, Baugus, McGowen, DeHart, Goodson, Garritano, Cox, Dodwell, Marshall, and Manton
Nays – Bowlin
Absent – None
Abstain – Levitt and Porter
Whereupon Mayor Woerther declared Bill #2157 approved, passed and it became ORDINANCE #2157.

BILL #2158 **AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING THE MAYOR OF THE CITY OF WILDWOOD, MISSOURI TO ENTER INTO A CONTRACT WITH KRUPP CONSTRUCTION FOR THE DEVELOPMENT OF A CONNECTOR TRAIL BETWEEN BLUFF VIEW PARK AND THE ROCK HOLLOW VALLEY, AS INDICATED IN THE BID DOCUMENTS AND SPECIFICATIONS, ALL IN KEEPING WITH THE DOCUMENTATION SUBMITTED BY SUCH IN RESPONSE TO THE CITY'S ADVERTISEMENT IN THIS REGARD. *Recommended by the Planning/Economic Development/Parks Committee* (Second Reading) (Ward – Six)**

A motion was made by Council Member Bowlin, seconded by Council Member Dodwell, for the second reading of Bill #2158. A voice vote was taken with a unanimous affirmative result and the motion was declared passed. Bill #2158 was read for the second time by title only.

A roll call vote was taken for passage and approval of Bill #2158 with the following results:
Ayes – Stine, Levitt, Bertolino, Cullinane, Baugus, McGowen, DeHart, Goodson, Garritano, Bowlin, Porter, Cox, Dodwell, Marshall, and Manton
Nays – McCutchen
Absent – None
Whereupon Mayor Woerther declared Bill #2158 approved, passed and it became ORDINANCE #2158.

BILL #2159 **AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI THAT AUTHORIZES THE MAYOR OF THE CITY OF WILDWOOD, MISSOURI TO ENTER INTO AN EASEMENT AGREEMENT WITH THE WINDSOR CREST HOMEOWNERS ASSOCIATION TO TRANSFER ITS EXISTING RETENTION FACILITY LOCATED WITHIN THE CITY'S COMMUNITY PARK PROPERTY TO THE CITY OF WILDWOOD, MISSOURI, FOR ITS LONG-TERM CONTROL, MAINTENANCE, AND EVENTUAL USE IN CONJUNCTION WITH THE APPROVED CONCEPT PLAN FOR THIS PUBLIC PARK SITE.** ***Recommended by the Planning/Economic Development/Parks Committee*** **(Second Reading) (Wards – All)**

A motion was made by Council Member Manton, seconded by Council Member Cox, for the second reading of Bill #2159. A voice vote was taken with a unanimous affirmative result and the motion was declared passed. Bill #2159 was read for the second time by title only.

A roll call vote was taken for passage and approval of Bill #2159 with the following results:
Ayes – Stine, Levitt, McCutchen, Bertolino, Cullinane, Baugus, McGowen, DeHart, Goodson, Garritano, Bowlin, Porter, Cox, Dodwell, Marshall, and Manton
Nays – None
Absent – None
Whereupon Mayor Woerther declared Bill #2159 approved, passed and it became ORDINANCE #2159.

AMENDED

BILL #2160 **AN ORDINANCE AUTHORIZING THE APPROVAL OF A RECORD PLAT, ALONG WITH A TRUST INDENTURE, A JOINT ROADWAY MAINTENANCE AGREEMENT, AND/OR THE NECESSARY SCRIPT UPON THIS INSTRUMENT FOR THE ADOPTION OF WAKEFIELD FARMS SUBDIVISION'S INDENTURES/RESTRICTIONS, AND A DEPOSIT AGREEMENT, TO BE SECURED BY ASSOCIATED LETTERS OF CREDIT GUARANTEEING CERTAIN REQUIRED IMPROVEMENTS, FOR A SEVEN (7) LOT RESIDENTIAL SUBDIVISION THAT IS LOCATED UPON A THIRTY-SIX (36) ACRE TRACT OF LAND, BEING PART OF ADJUSTED LOT B OF WITBRODT/WAKEFIELD FARM ROAD, ACCORDING TO THE BOUNDARY ADJUSTMENT PLAT, RECORDED IN BOOK 347, PAGE 493 OF THE ST. LOUIS COUNTY RECORDS; AND CONTAINED IN THE SECTION 3, TOWNSHIP 44 NORTH, RANGE 3 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI, AND MORE SPECIFICALLY SITUATED ON THE EAST SIDE OF WAKEFIELD FARM ROAD, NORTH OF STATE ROUTE 100; HEREAFTER TO BE KNOWN AS "WAKEFIELD FOREST SUBDIVISION."** ***Recommend by the Department of Planning*** **(Second Reading) (Ward – One)**

A motion was made by Council Member DeHart, seconded by Council Member McGowen, for the second reading of Amended Bill #2160. A voice vote was taken with a unanimous affirmative result and the motion was declared passed. Amended Bill #2160 was read for the second time by title only.

A roll call vote was taken for passage and approval of Amended Bill #2160 with the following results:
Ayes – Stine, Levitt, McCutchen, Bertolino, Cullinane, Baugus, McGowen, DeHart, Goodson, Garritano, Bowlin, Porter, Cox, Dodwell, Marshall, and Manton
Nays – None
Absent – None
Whereupon Mayor Woerther declared Amended Bill #2160 approved, passed and it became ORDINANCE #2160.

BILL #2161 **AN ORDINANCE AMENDING CHAPTER 390 TRAFFIC SCHEDULES BY ESTABLISHING A 40 MPH SPEED LIMIT ON A PORTION OF MISSOURI ROUTE 109 WITHIN THE CITY OF WILDWOOD.** ***Recommended by the Board of Public Safety*** **(Second Reading) (Wards One, Five, and Eight)**

A motion was made by Council Member McGowen, seconded by Council Member Goodson, for the second reading of Bill #2161. A voice vote was taken with a unanimous affirmative result and the motion was declared passed. Bill #2161 was

read for the second time by title only.

A roll call vote was taken for passage and approval of Bill #2161 with the following results:
Ayes – Stine, Levitt, McCutchen, Bertolino, Cullinane, Baugus, McGowen, DeHart, Goodson, Garritano, Bowlin, Cox, Dodwell, Marshall, and Manton
Nays – None
Absent – None
Abstain – Porter
Whereupon Mayor Woerther declared Bill #2161 approved, passed and it became ORDINANCE #2161.

NEW BUSINESS

BILL #2162 **AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI ADOPTING THE RECOMMENDATION OF THE HISTORIC PRESERVATION COMMISSION REGARDING THE 'SECOND JOHN E. SCHNARR HOUSE' THAT IS LOCATED ON MANCHESTER ROAD (FORMERLY ROUTE 66) WITHIN THE COMMUNITY OF GROVER, THEREBY ALLOWING ITS PLACEMENT ON THE CITY'S HISTORIC REGISTRY AND PROVIDING CERTAIN INCENTIVES FOR SUCH RELATIVE TO REQUIRED PUBLIC SPACE AND ROADWAY IMPROVEMENTS. *Recommended by the Historic Preservation Commission* (First Reading) (Ward – Eight)**

A motion was made by Council Member Garritano, seconded by Council Member Goodson, for the first reading of Bill #2162. A voice vote was taken with a unanimous affirmative result and the motion was declared passed. Bill #2162 was read for the first time by title only.

BILL #2163 **AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING THE MAYOR OF THE CITY OF WILDWOOD, MISSOURI TO EXECUTE A CONTRACT WITH THE MISSOURI AMERICAN WATER COMPANY FOR THE RELOCATION OF A WATER MAIN TO ACCOMMODATE PHASE TWO CONSTRUCTION WITHIN WILDWOOD COMMUNITY PARK. *Recommended by the Department of Planning and Parks* (First Reading) (Ward - One)**

A motion was made by Council Member McGowen, seconded by Council Member DeHart, for the first reading of Bill #2163. A voice vote was taken with a unanimous affirmative result and the motion was declared passed. Bill #2163 was read for the first time by title only.

BILL #2164 **AN ORDINANCE AUTHORIZING THE MAYOR TO EXECUTE CERTAIN AGREEMENTS AND DOCUMENTS IN ORDER TO PROCEED WITH OBTAINING FEDERAL FUNDING FOR THE MISSOURI ROUTE 109 PEDESTRIAN TUNNEL PROJECT, UNDER THE TRANSPORTATION ALTERNATIVES PROGRAM (TAP), AS AUTHORIZED BY THE FEDERAL TRANSPORTATION FUNDING ACT, MAP-21 (MOVING AHEAD FOR PROGRESS IN THE 21ST CENTURY) (First Reading) (Wards – One and Eight)**

A motion was made by Council Member Goodson, seconded by Council Member McGowen, for the first reading of Bill #2164. A voice vote was taken with a unanimous affirmative result and the motion was declared passed. Bill #2164 was read for the first time by title only.

BILL #2165 **AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING THE MAYOR OF THE CITY OF WILDWOOD, MISSOURI TO EXECUTE AN AMENDED CONTRACT ON BEHALF OF IT WITH OATES ASSOCIATES FOR ITS ON-GOING DEVELOPMENT OF ENGINEERED DRAWINGS/PLANS, ALONG WITH CONSTRUCTION MANAGEMENT AND ADMINISTRATION, FOR THE EXTENSION OF THE PARK'S INTERNAL ROADWAY, TO THE WESTERN TERMINUS OF POND-GROVER LOOP ROAD, IN ASSOCIATION WITH THE COMMUNITY PARK PROJECT – PHASE 2, CONSISTENT WITH THE ATTACHED CONTRACT AND EXHIBITS, WHICH ARE BEING RECOMMENDED BY THE PLANNING/ECONOMIC**

DEVELOPMENT/PARKS COMMITTEE OF CITY COUNCIL. (First Reading) ***Recommended by the Planning/Economic Development/Parks Committee*** **(Wards - All)**

A motion was made by Council Member Baugus, seconded by Council Member Cullinane, for the first reading of Bill #2165. A voice vote was taken with a unanimous affirmative result and the motion was declared passed. Bill #2165 was read for the first time by title only.

RESOLUTION(S) – None

OTHER

Receive & File - A response to a letter dated February 2, 2016 from Dale R. Hicks, owner of Wildwood Memorial Park and Gardens, regarding P.Z. 9-10 Wildwood Memorial Park and Gardens, c/o Dale and Jon Hicks, P.O. Box 34, Eureka, Missouri 63025; a Conditional Use Permit (CUP) in the NU Non-Urban Residence District; south side of State Route 100, at Hencken Road (Locator Numbers: 26Y640097, 26X430064, and 26X430075/Addresses: 3901 Hencken Road 18706 State Route 100, and 18706 (a) State Route 100); which seeks the right to use one (1) of the two (2), five (5) acre lots that form a portion of this overall twenty-eight (28) acre site for the scatter of composted pet remains (Ward - Six)

Director of Planning and Parks Vujnich stated the Planning and Zoning Commission was in receipt of a correspondence from the owner of the Wildwood Memorial Gardens seeking the Commission's consideration of a change to the use of one (1) of the two (2), five (5) acre lots. Director of Planning and Parks Vujnich stated the new activity would allow the scattering of composted pet cremains on this portion of the collective site. Director of Planning and Parks Vujnich stated the Planning and Zoning Commission considered the request and, although not typical, the members do believe that such an additional activity at the location, given the appropriate protections and design components, can be added. Director of Planning and Parks Vujnich stated the Planning and Zoning Commission was recommending the existing Conditional Use Permit (CUP) be amended.

Council Member Bowlin stated it needs to reference that the City Council can change the deed restriction in the future

Receive & File - A report, with recommendation, regarding the City of Wildwood's *Meramec River Connector Trail Project*; FPNU Floodplain Non-Urban Residence District; publicly owned land between Bluff View Park and Rock Hollow Trail; thereby approving the design of this important length of natural surface trail linking two (2) existing trail corridors between two (2) major public holdings of land – Bluff View Park and the Rock Hollow Valley. (Ward - Six)

Director of Planning and Parks Vujnich stated the Planning and Zoning Commission was in receipt of a Site Development Plan (SDP) from the Department of Planning and Parks for the construction of a connector trail that will link Bluff View Park to the Rock Hollow Valley. Director of Planning and Parks Vujnich stated the Planning and Zoning Commission reviewed the Site Development Plan (SDP) and is supportive of the approximately two thousand (2,000) foot length of trail.

Discussion regarding the proposed development of the Missouri River Floodplain, within the City of Maryland Heights, and whether the City Council should draft a Resolution in opposition of said development - for consideration at the March 28, 2016 City Council Meeting.

Discussion was held regarding the following: the city has no business sticking their heads in this; we wouldn't want Maryland Heights involved in our affairs.

CONTINUED FROM WORK SESSION

COMMITTEE ACTION ITEM(S)/RECOMMENDATION(S)

Planning/Economic Development/Parks Committee
Dog Park Entry Management System (Wards – All)

Director of Planning and Parks Vujnich stated the Committee had been exploring other options for the purposes of accessing the City's dog park facility safely and reliably. Director of Planning and Parks Vujnich stated the Committee recommends the use of a battery-powered keypad that would be placed on both the interior and exterior of the current outer gate. Director of Planning and Parks Vujnich stated the fabrication of this gate and related keypad entry system has been priced at four thousand five hundred dollars ($4,500.00). Director of Planning and Parks Vujnich stated the Committee, acting at its February 23, 2016 meeting and, by a vote of 5 to 1, is recommending this option for access control.

A motion was made by Council Member Baugus, seconded by Council Member Dodwell, to authorize the Department of Planning and Parks to prepare a Resolution endorsing the Planning/Economic Development/Parks Committee's recommendation. A voice vote was taken with an affirmative result and the motion was declared passed (McCutchen voted Nay).

Wet Weather Trail Policy (Wards - All)

Director of Planning and Parks Vujnich stated the Committee was asked by the Department of Planning and Parks to consider adopting a Wet Weather Policy that would include the needed items to address the safety of users, the protection of the environment, and the preservation of the trail, which reduces the needed resources to repair them, if no policy were in place. Director of Planning and Parks Vujnich stated this policy would be based upon an honor system and although not all users will adhere to the policy, in other jurisdictions compliance is generally good.

A motion was made by Council Member Dodwell, seconded by Council Member Manton, to authorize the Department of Planning and Parks to prepare the necessary legislation adopting the proposed Wet Weather Trail Policy as recommended by the Planning/Economic Development/Parks Committee. A voice vote was taken with a unanimous affirmative result and the motion was declared passed.

City Event Partnership Agreements (2) – July 4th Car Show - Tack Swap Meet (Wards - All)

Director of Planning and Parks Vujnich stated representatives with the *Queeny Park Equestrian Events* and *Knights of Columbus Council at the St. Alban Roe Parish* contacted the City of Wildwood at the beginning of 2016 about a tack swap meet/sale and a planned car show they would like to host in the City's Town Center Area. Director of Planning and Parks Vujnich stated given the completion of the Event Partnership Agreements, the lack of conflict in the intended use dates with any other City events or the facilities themselves, the benefits derived from this charitable organization and the not-for-profit, the Committee was recommending the Event Partnership Agreements be supported by the City Council and that it authorize staff to advise the applicants of these favorable actions.

A motion was made by Council Member Goodson, seconded by Council Member Garritano, to approve both Event Partnership Agreements. A voice vote was taken with a unanimous affirmative result and the motion was declared passed.

On-Going and Long-Term Maintenance Costs for Parks and Trail Facilities (Wards – All)

Director of Planning and Parks Vujnich stated the on-going and long-term maintenance costs would be presented to the City Council each month.

ADJOURNMENT

A motion was made by Council Member Cox, seconded by Council Member Marshall, to adjourn the meeting. A voice vote was taken with a unanimous affirmative result and the motion was declared passed. There being no further business to come before the City Council; the meeting was adjourned at 9:33 p.m.

Approved this _____ day of _____, 2016.

_____
Timothy Woerther, Mayor

ATTEST:

_____
City Clerk

DRAFT

COUNCIL WORK SESSION MINUTES
COUNCIL CHAMBERS

WILDWOOD CITY HALL
16860 Main Street
City of Wildwood, Missouri 63040

MONDAY, MARCH 14, 2016
6:00 P.M.

Present	Absent
Stine	
Levitt	
McCutchen	
Bertolino	
Cullinane	
Baugus	
McGowen	
DeHart	
Goodson	
Garritano	
Bowlin	
Cox	
Dodwell	
Marshall	
Manton	

MAYOR'S COMMENTS/ANNOUNCEMENTS/APPOINTMENTS - None

CITY ADMINISTRATOR DISCUSSION ITEMS

Presentation of the Final Draft of the City of Wildwood Economic Development Plan by Consultant, Houseal Lavigne Associates (Wards – All)

City Administrator Thomas introduced Mr. Drew Awsumb from Houseal Lavigne Associates who presented the final draft of the City of Wildwood Economic Development Plan. Mr. Awsumb gave a PowerPoint presentation of the Wildwood Economic Development Strategic Plan and asked the City Council to forward any comments and questions to City Administrator Thomas over the next two (2) weeks. Mr. Awsumb stated that after all comments have been received they will set up a one year agenda and identify lead roles. Mr. Awsumb stated they will also add in quarterly outcomes, benchmarks of where the City should be and who is responsible.

Discussion was held regarding the following: consultants will provide a final draft after comments to the Economic Development Task Force in April; after endorsements from committees the final draft will come back to Council as a Resolution; benefit of the walk-to community; have we talked to residents in the areas; what are those individuals

looking for, reach out to them; is there a listing of what space is available in Town Center and is that being shared with developers across the county; the city website shows commercial space and properties available; do we have a strong tie with West County Chamber of Commerce; has there been an analysis of any festivals or big events looking for a new location, something that would rent the whole hotel or go on for the whole weekend; maybe we could partner with Missouri Conservation Department with events held at the parks; who is going to drive and monitor this process; thank you for recognizing the treasure that is Old Manchester Road.

Update on Development Finance Group's Meeting Regarding a Public Financing Proposal from Payne Family Homes (Main Street Crossing Project) (Ward – Eight)

Director of Planning and Parks Vujnich reviewed the report from the Development Finance Group. Director of Planning and Parks Vujnich stated the group met with the applicant to address some of the referenced misunderstandings that were described by Payne Family Homes at the City Council meeting on this matter, as well as to have an understanding of the applicant's intent in terms of any payments or planned participation in regards to the cost of these collective required roadway improvements. Director of Planning and Parks Vujnich stated the Development Finance group still has reservations regarding this request and cannot support the City's sharing in the cost of these improvements beyond the $82,161.67 West TGA Fund contribution and future TGA funds from development of the commercial outlots.

Mr. Tom Cummings, Payne Family Homes, introduced his team and was available for comments and questions. Mr. Cummings stated they were disappointed but want to engage the city in future discussions and work something out. Mr. Cummings respectfully asked the City Council to direct the Development Finance Group to engage in further discussions.

Discussion was held regarding the following: the contribution that Payne Family Homes is responsible for would be reduced; so we are crediting the $82,000 and hoping to receive the TIP; the numbers aren't adding up; without help from the city, the project is not viable for Payne; from the beginning they were told what they would be responsible for; we have never provided assistance to a residential development; Main Street and Eatherton Road improvements were part of the Ordinance as well as the Letter of Recommendation from the Planning and Zoning Commission; the City can meet with them again but when we sat down the last time and asked what they are putting on the table, they said $400,000.00 and have offered no increase; seems like we still have some time to discuss this; need a better understanding and clear and concise numbers.

Work Session was adjourned at 7:42 p.m.

DRAFT

BILL NO. 2162 **ORDINANCE NO. 2162**

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI ADOPTING THE RECOMMENDATION OF THE HISTORIC PRESERVATION COMMISSION REGARDING THE 'SECOND JOHN E. SCHNARR HOUSE' THAT IS LOCATED ON MANCHESTER ROAD (FORMERLY ROUTE 66) WITHIN THE COMMUNITY OF GROVER, THEREBY ALLOWING ITS PLACEMENT ON THE CITY'S HISTORIC REGISTRY AND PROVIDING CERTAIN INCENTIVES FOR SUCH RELATIVE TO REQUIRED PUBLIC SPACE AND ROADWAY IMPROVEMENTS. (Ward Eight)

WHEREAS, the owner of a bungalow that is located in the former community of Grover, along Historic Route 66, has submitted for its rezoning to convert the site and all improvements to a commercial use and allow a business to operate from there; and

WHEREAS, with the favorable completion of the rezoning process, the City Council required the property owner to undertake the placement of this historic element onto the City's Historic Registry, if judged such by the City's Historic Preservation Commission; and

WHEREAS, the property owner began this process and submitted the required information to the Historic Preservation Commission for its consideration, which included all testimony provided at a public hearing held on this matter to accept comments and questions in this regard; and

WHEREAS, with this hearing, and associated recommendation process, the Commission supported the request based upon seven of the thirteen criteria set forth in considerations of this nature; and

WHEREAS, the Historic Preservation Commission completed its recommendation process by also supporting the granting of incentives that had been requested by the owner of the historic asset, which would eliminate an escrow requirement for roadway improvements and a minimum amount of public space; and

WHEREAS, this recommendation report was forwarded to the City Council for a public hearing, which was completed on February 22, 2016 and led to the members citing a number of components of this property's history and location as why it supported its placement on the City's Registry and the granting of the two incentives as well; and

WHEREAS, the City Council then authorized the preparation of the legislation to complete this process and add this historic element to the list of over thirty properties now upon it at this time; and

WHEREAS, the City Council is empowered and enabled to make such decisions in this regard under its authority granted by State Statute and local Charter, when determined to be in the best interest of the public's health, safety, and welfare.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AS FOLLOWS:

Section One. The City Council of the City of Wildwood, Missouri hereby determines that, based upon the information and recommendation provided to it by the Historic Preservation Commission, said property identified as 16941 Manchester Road (St. Louis County Locator Number: 24V530551) and the 'Second John E. Schnarr House', is appropriate for placement on the City's

Historic Registry, since this parcel of ground and building have been determined to be historically significant in nature due to the following considerations:

Criteria for Use	Compliance Level
1. Its character, interest or value is part of the development, heritage, or cultural characteristics of the community, County, State, or country;	**Yes** – This dwelling remains one (1) of the last examples of the bungalow type of housing that was very prevalent in St. Louis County in the 1930's, but to a much more limited extent in this area of it. With the recent demolition of another bungalow, to the east of this location, but on Manchester Road, the number of these types of examples is decreasing, creating the need to protect what remains. With only a few tangible references remaining of this type of dwelling in far west St. Louis County, it has a value relating to the characteristics of Wildwood and St. Louis County.
2. Its overall setting is part of a collection of buildings, elements, or objects where the overall collection forms a unit;	**Yes**- as noted above, this dwelling remains an integral part of the Grover Community and is part of a collection that forms this unit.
3. It has the potential to be returned to an accurate historic appearance regardless of alterations or insensitive treatment that can be demonstrated to be reversible;	**Yes** – with the petitioner's intent, and already underway, to restore the bungalow to much of its previous appearance, this criterion is easily met.
6. It embodies distinguishing characteristics of an architectural type valuable for the study of period, type, method of construction or use of indigenous materials;	**Yes** – Dwelling, which is constructed of local materials, and limited examples of such are found in Wildwood at this time.
8. It embodies design, detailing, materials or craftsmanship that renders it architecturally significant;	**Yes** – the simplicity of the original dwelling component reflects classic architecture that was prevalent across the United States in the 1920's and 1930's.
10. It has a unique location or singular physical characteristic that makes it an established or familiar visual feature of the neighborhood, community, or City;	**Yes** – as noted above, this dwelling is one (1) of a few remaining anchors of existing buildings that form the core of the Grover community, both now and throughout much of its history, along historic Manchester Road.
11. Its character is a particularly fine or unique example of a utilitarian structure, including, but not limited to, farmhouses, gas stations, or other commercial structures, with a high level of integrity, or architectural significance	**Yes** – bungalow structure.
12. It is suitable for preservation or restoration	**Yes** – given, with restoration work already underway, this element has already proven its suitability for such.

Section Two. The City Council hereby adopts, for the purposes of this action, the Historic Preservation Commission's Letter of Recommendation dated January 28, 2016 on this matter, which establishes the parameters and rationales for the designating ordinance, under the requirements and regulations of Chapter 440.040 of the Wildwood Municipal Code – **Historic Preservation and Restoration Code**, but hereby also endorses the set of incentives also contained in this report that was acted upon by said body.

Section Three. The City Council hereby directs the Department of Planning to complete the necessary steps to finalize the nomination process of these properties onto the Historic Registry and make all notifications and modifications to property owners and City documents regarding the same.

Section Four. This Ordinance shall be in full force and effect on and after its passage and approval.

This Bill was passed and approved this _____ day of _____, 2016 by the Council of the City of Wildwood, Missouri after having been read by title, or in full, two (2) times prior to passage.

_____ _____

Presiding Officer The Honorable Timothy Woerther, Mayor

ATTEST:

_____ _____

City Clerk City Clerk

BILL NO. 2163 **ORDINANCE NO.: 2163**

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING THE MAYOR OF THE CITY OF WILDWOOD, MISSOURI TO EXECUTE A CONTRACT WITH THE MISSOURI AMERICAN WATER COMPANY FOR THE RELOCATION OF A WATER MAIN TO ACCOMMODATE PHASE TWO CONSTRUCTION WITHIN WILDWOOD COMMUNITY PARK. (Ward - One)

WHEREAS, the City of Wildwood, Missouri recently completed Phase One of its Community Park Project and opened it for general use, as part of its 20th Anniversary Celebration; and

WHEREAS, the completion of this phase of community park led the City Council to authorize a second project, which would complete a portion of the facility's interior roadway, thereby providing an alternative, and primary, access to it from State Route 109, via the Pond-Grover Loop Road; and

WHEREAS, this project also includes a companion trail and the initial planned work in the Great Meadow Area of the park site; and

WHEREAS, the Missouri American Water Company has provided a design for this service, along with a proposal for the relocation for this water main that has an estimated cost of one hundred thirty-five thousand dollars ($135,000.00); and

WHEREAS, previously, the City Council has endorsed this relocation, when its cost was estimated by the Missouri American Water Company at approximately ninety thousand dollars ($90,000.00), but was changed by it, thereby increasing the price by approximately forty-five thousand dollars ($45,000.00); and

WHEREAS, the increase in this cost appears to be a function of anticipated construction costs relating to rock removal, but the Missouri American Water Company is not sure if this amount is too low or high, which led the City Attorney to modify the standard contract of this utility to allow for the City to be advised of any potential cost overrun; and

WHEREAS, adequate funding for this service remains available in the City's Capital Improvements Program Budget from 2016; and

WHEREAS, this action is considered by the City Council to be consistent with the design of Community Park and its associated enhancements, as approved, and essential for the full use of its improvements and others that will follow over the next five (5) or more years.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AS FOLLOWS:

Section One. The City Council of the City of Wildwood, Missouri hereby authorizes the Mayor of the City of Wildwood, Missouri to execute a contract with Missouri American Water Company for the relocation of a water main to accommodate the Community Park's Phase Two Project, thereby providing the needed improvements therein, as all set forth in the attached Exhibit A.

Section Two. The extent of the costs associated with this authorization and related agreement are estimated at one hundred thirty-five thousand dollars ($135,000.00).

Section Three. This Ordinance shall be in full force and effect from and after its passage and approval.

This Bill was passed and approved this ___ day of _____, 2016 by the City Council of the City of Wildwood, Missouri after having been read by title or in full, two (2) times, prior to passage.

_____	_____
Presiding Officer	The Honorable Timothy Woerther, MAYOR
ATTEST:	ATTEST:
_____	_____
City Clerk	City Clerk

WILDWOOD

March 14, 2016

MEMORANDUM

To: The Honorable City Council of the City of Wildwood, Missouri

From: Department of Planning and Parks

Re: Water Company Contract/Agreement for Main Relocation in Wildwood Community Park

Cc: The Honorable Timothy Woerther, Mayor
Ryan S. Thomas, P.E., City Administrator
Rob Golterman, City Attorney
Kathy Arnett, Assistant Director of Planning and Parks
Tom Cissell, Project Engineer
Michael Gershenson, Gershenson Construction

The Department of Planning has placed on tonight's agenda a bill that addresses an agreement between the Missouri American Water Company and the City of Wildwood on the relocation of a major water line in the planned route of the community park roadway connection that will ultimately access State Route 109. This relocation is needed to accommodate the grade the roadway needs to meet to make the connection to the recently completed Pond-Grover Loop Road. The current grade change is significant enough to justify this work and the cost associated with it.

In terms of cost of the project, the agreement that is attached to the referenced bill sets forth the conditions associated with this work, which are established by the water company, given the size of the main that has to be relocated. The cost of this work is estimated to be at approximately one hundred thirty thousand dollars ($130,000.00), which is an increase from the original quoted amount of ninety thousand dollars ($90,000.00). This amount can still be addressed, as part of this project's overall budget, which is approximately seven hundred thousand dollars ($700,000.00), and not exceed this limitation.

The City Attorney has reviewed the agreement and determined that it is the water company's standard type, but did identify a major item for consideration relating to cost overruns experienced by the water company are the City's responsibility, but has no control over the same, despite being responsible for their full payment, if applicable. Despite this circumstance, the Department is still seeking the support of City Council of the bill, so it can proceed with the return of the contract to the water company and the work can then be scheduled. With this work, the City's contractor can then proceed with the other components of the project, i.e. roadway and trail construction.

The Department will provide more background on this matter at tonight's meeting, but, if members have specific questions in this regard, please feel free to contact the Department of Planning and Parks at (636) 458-0440. Thank you for your review of this information and participation in tonight's discussion.

Project Name: _____ Asset#: _____

Project Manager: _____ CIAC#: _____

CONTRACT FOR WATER FACILITY RELOCATION AND LICENSE TO UTILIZE EASEMENT

THIS CONTRACT, entered into this **12th** day of **March, 2016,** by and between **MISSOURI-AMERICAN WATER COMPANY,** a corporation existing under the laws of the State of Missouri, (hereinafter referred to as "COMPANY"), and the **CITY OF WILDWOOD, MISSOURI, 16860 MAIN STREET, WILDWOOD, MISSOURI, 63040,** (hereinafter referred to as ("CITY"),

WITNESSETH:

WHEREAS, CITY contemplates the location, widening, construction and/or improvement of **the Pond-Grover Loop Road (western extension),** in accordance with certain plans titled **Community Park – Phase 2 Improvements** on file in the office of the CITY; and

WHEREAS, in carrying out the opening, widening, establishment, and improvement of **Pond-Grover Loop Road (western extension),** it will be necessary to relocate certain portions of the COMPANY'S water facilities now located partly within CITY right-of-way and partly on the COMPANY'S private easement along **the Pond-Grover Loop Road (western extension)** in the CITY; and

WHEREAS, COMPANY is willing to accommodate CITY'S needs upon condition that CITY accepts the provisions hereinafter specified and evidences such acceptance by execution hereof in accordance with Section 432.070 RSMo and City Ordinance

No. _____

NOW THEREFORE, in consideration of the mutual covenants contained herein, it is agreed as follows:

1. COMPANY will, as soon as practicable after receiving notice from the CITY, and receipt of payment in full of the estimated cost described in Paragraph 2, furnish all labor, materials, and supervision necessary, and will relocate its said water facilities currently located partly within CITY right-of-way and partly within the private easement of the COMPANY as shown on the plans marked Exhibit "A" attached hereto and made a part hereof.

Project Name: _____ Asset#: _____

Project Manager: _____ CIAC#: _____

2. The estimated cost (Exhibit "B") for this relocation is **$135,000.00** It is agreed that CITY'S obligation toward the cost of this relocation shall be **100**% of the actual costs thereof ("CITY'S OBLIGATION"), which is the percentage of the affected water facilities located within the COMPANY'S private easement. CITY agrees that prior to commencement of the relocation contemplated herein, and upon receipt and approval by the CITY of a statement of cost, it will, or it will direct its agent or assign to promptly pay COMPANY for **100%** of the estimated cost of the relocation as set forth in Exhibit B, hereinafter referred to as "**CITY'S PAYMENT**".~~.~~ The failure of any agent or assign of the CITY to promptly pay the COMPANY shall not be a defense and shall not mitigate the duty of the CITY to pay the COMPANY in full.

3. At the conclusion of the relocation work, the COMPANY shall calculate the difference between actual costs and estimated costs, if any. In the event ~~the CITY's pro rata share of~~ the actual costs exceeds **CITY'S PAYMENT**, COMPANY will provide CITY with documentation that supports the additional costs and the parties will enter into a supplement to this ~~contract~~Contract that addresses the CITY reimbursing the COMPANY for the additional amount owed. In no event, however, shall the additional amount owed under this Paragraph 3 exceed ten percent (10%) of the CITY'S PAYMENT. In the event the actual costs are less than **CITY'S PAYMENT**, the COMPANY will pay CITY ~~its pro rata share of~~ the difference between **CITY'S PAYMENT** and the actual cost. Payments owed to COMPANY shall be paid within forty five (45) days of receipt of invoice.

4. If any substantial change is made in the original plan and extent of the COMPANY'S relocation, work on the additional relocation will not be performed until estimated costs have been approved by the CITY. Upon completion of this additional relocation work, CITY will reimburse COMPANY for any incurred costs above the estimated costs set forth in paragraph 2 of the ~~contract~~Contract that directly result from such change of plans.

5. CITY agrees to furnish COMPANY with all necessary information of the project improvements including surveying and marking the proposed elevation and the right-of-way in order for COMPANY to properly carry out the utility relocation.

6. Upon the completion of the relocation provided for herein, COMPANY shall remove all leftover materials and debris resulting from the work and leave right-of-way in a neat, workman-like condition, free of holes, mounds of dirt, or other objectionable material.

7. COMPANY hereby grants and conveys unto the CITY, without warranty of title or extent of interest in the real estate hereinafter described, expressed or implied, the license and right to construct, reconstruct, and maintain roadway and drainage structures over and across those portions of easement owned and held by COMPANY, situated in St. Louis County, Missouri, and indicated by hachuring on the attached plat, made part hereof and referred to as Exhibit "C" with the following conditions and limitations:

    a. In the event COMPANY must excavate to replace, expand, or maintain its facilities, COMPANY will request a permit from CITY, which will be granted without cost to COMPANY. COMPANY will, comply with all lawful conditions of such permit, but the cost of anything required by such permit, including repair of CITY'S road and drainage facilities damaged by COMPANY, will be paid by CITY.

    b. In the event of future improvements, reconstruction, or maintenance of the road or drainage structures involved which from time to time necessitate the further relocation of COMPANY'S water facilities within the area indicated on Exhibit "C", CITY will advise COMPANY of contemplated ~~change~~changes and will reimburse COMPANY for costs and expenses incurred by it in relocating or otherwise adjusting its facilities. If, for reasons stated above, COMPANY must relocate its facilities but there is no usable remaining area of its original private easement, COMPANY will relocate its facilities to adjacent public right-of-way or new private easement acquired by CITY but subject to the same protections and assurances from CITY herein specified as if the facilities remained in COMPANY'S original private easement.

8. This ~~agreement~~Contract shall inure to the benefit and detriment of the successors and assigns of CITY and COMPANY.

Project Name: _____ Asset#: _____

Project Manager: _____ CIAC#: _____

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed by their duly authorized officials.

ATTEST: MISSOURI-AMERICAN WATER COMPANY

_____ _____

Secretary _____ (Title)

ATTEST: CITY OF WILDWOOD, MISSOURI

_____ _____

City. Clerk Mayor

APPROVED AS TO LEGAL FORM:

_____

City Counselor

Project Name: _____ Asset#: _____

Project Manager: _____ CIAC#: _____

CONTRACT FOR WATER FACILITY RELOCATION AND LICENSE TO UTILIZE EASEMENT

THIS CONTRACT, entered into this **12th** day of **March, 2016,** by and between **MISSOURI-AMERICAN WATER COMPANY,** a corporation existing under the laws of the State of Missouri, (hereinafter referred to as "COMPANY"), and the **CITY OF WILDWOOD, MISSOURI, 16860 MAIN STREET, WILDWOOD, MISSOURI, 63040,** (hereinafter referred to as ("CITY"),

WITNESSETH:

WHEREAS, CITY contemplates the location, widening, construction and/or improvement of **the Pond-Grover Loop Road (western extension)**, in accordance with certain plans titled **Community Park – Phase 2 Improvements** on file in the office of the CITY; and

WHEREAS, in carrying out the opening, widening, establishment, and improvement of **Pond-Grover Loop Road (western extension)**, it will be necessary to relocate certain portions of the COMPANY'S water facilities now located partly within CITY right-of-way and partly on the COMPANY'S private easement along **the Pond-Grover Loop Road (western extension)** in the CITY; and

WHEREAS, COMPANY is willing to accommodate CITY'S needs upon condition that CITY accepts the provisions hereinafter specified and evidences such acceptance by execution hereof in accordance with Section 432.070 RSMo and City Ordinance

No. _____

NOW THEREFORE, in consideration of the mutual covenants contained herein, it is agreed as follows:

1. COMPANY will, as soon as practicable after receiving notice from the CITY, and receipt of payment in full of the estimated cost described in Paragraph 2, furnish all labor, materials, and supervision necessary, and will relocate its said water facilities currently located partly within CITY right-of-way and partly within the private easement of the COMPANY as shown on the plans marked Exhibit "A" attached hereto and made a part hereof.

Project Name: _____ Asset#: _____

Project Manager: _____ CIAC#: _____

2. The estimated cost (Exhibit "B") for this relocation is **$135,000.00** It is agreed that CITY'S obligation toward the cost of this relocation shall be **100**% of the actual costs thereof ("CITY'S OBLIGATION"), which is the percentage of the affected water facilities located within the COMPANY'S private easement. CITY agrees that prior to commencement of the relocation contemplated herein, and upon receipt and approval by the CITY of a statement of cost, it will, or it will direct its agent or assign to promptly pay COMPANY for **100%** of the estimated cost of the relocation as set forth in Exhibit B, hereinafter referred to as "**CITY'S PAYMENT**". The failure of any agent or assign of the CITY to promptly pay the COMPANY shall not be a defense and shall not mitigate the duty of the CITY to pay the COMPANY in full.

3. At the conclusion of the relocation work, the COMPANY shall calculate the difference between actual costs and estimated costs, if any. In the event the actual costs exceeds **CITY'S PAYMENT**, COMPANY will provide CITY with documentation that supports the additional costs and the parties will enter into a supplement to this Contract that addresses the CITY reimbursing the COMPANY for the additional amount owed. In no event, however, shall the additional amount owed under this Paragraph 3 exceed ten percent (10%) of the CITY'S PAYMENT. In the event the actual costs are less than **CITY'S PAYMENT**, the COMPANY will pay CITY the difference between **CITY'S PAYMENT** and the actual cost. Payments owed to COMPANY shall be paid within forty five (45) days of receipt of invoice.

4. If any substantial change is made in the original plan and extent of the COMPANY'S relocation, work on the additional relocation will not be performed until estimated costs have been approved by the CITY. Upon completion of this additional relocation work, CITY will reimburse COMPANY for any incurred costs above the estimated costs set forth in paragraph 2 of the Contract that directly result from such change of plans.

5. CITY agrees to furnish COMPANY with all necessary information of the project improvements including surveying and marking the proposed elevation and the right-of-way in order for COMPANY to properly carry out the utility relocation.

6. Upon the completion of the relocation provided for herein, COMPANY shall remove all leftover

materials and debris resulting from the work and leave right-of-way in a neat, workman-like condition, free of holes, mounds of dirt, or other objectionable material.

7. COMPANY hereby grants and conveys unto the CITY, without warranty of title or extent of interest in the real estate hereinafter described, expressed or implied, the license and right to construct, reconstruct, and maintain roadway and drainage structures over and across those portions of easement owned and held by COMPANY, situated in St. Louis County, Missouri, and indicated by hachuring on the attached plat, made part hereof and referred to as Exhibit "C" with the following conditions and limitations:

    a. In the event COMPANY must excavate to replace, expand, or maintain its facilities, COMPANY will request a permit from CITY, which will be granted without cost to COMPANY. COMPANY will, comply with all lawful conditions of such permit, but the cost of anything required by such permit, including repair of CITY'S road and drainage facilities damaged by COMPANY, will be paid by CITY.

    b. In the event of future improvements, reconstruction, or maintenance of the road or drainage structures involved which from time to time necessitate the further relocation of COMPANY'S water facilities within the area indicated on Exhibit "C", CITY will advise COMPANY of contemplated changes and will reimburse COMPANY for costs and expenses incurred by it in relocating or otherwise adjusting its facilities. If, for reasons stated above, COMPANY must relocate its facilities but there is no usable remaining area of its original private easement, COMPANY will relocate its facilities to adjacent public right-of-way or new private easement acquired by CITY but subject to the same protections and assurances from CITY herein specified as if the facilities remained in COMPANY'S original private easement.

8. This Contract shall inure to the benefit and detriment of the successors and assigns of CITY and COMPANY.

Project Name: _____ Asset#: _____

Project Manager: _____ CIAC#: _____

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed by their duly authorized officials.

ATTEST: MISSOURI-AMERICAN WATER COMPANY

_____ _____

Secretary _____ (Title)

ATTEST: CITY OF WILDWOOD, MISSOURI

_____ _____

City. Clerk Mayor

APPROVED AS TO LEGAL FORM:

_____

City Counselor

Bill #2164 **ORDINANCE #2164**

AN ORDINANCE AUTHORIZING THE MAYOR TO EXECUTE CERTAIN AGREEMENTS AND DOCUMENTS IN ORDER TO PROCEED WITH OBTAINING FEDERAL FUNDING FOR THE MISSOURI ROUTE 109 PEDESTRIAN TUNNEL PROJECT, UNDER THE TRANSPORTATION ALTERNATIVES PROGRAM (TAP), AS AUTHORIZED BY THE FEDERAL TRANSPORTATION FUNDING ACT, MAP-21 (MOVING AHEAD FOR PROGRESS IN THE 21ST CENTURY).

WHEREAS, the City of Wildwood applied to the East-West Gateway Council of Governments, the Missouri Department of Transportation and the Federal Highway Administration for fifty percent (50%) Federal funding, not to exceed $350,000, for the Missouri Route 109 Pedestrian Tunnel Project; and

WHEREAS, during the application and eligibility process there will be numerous documents and agreements that must be processed expeditiously in order to continue with the program; and

WHEREAS, the City Council desires to proceed through the Federal funding process.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF WILDWOOD, MISSOURI:

SECTION ONE

That the City Attorney, City Administrator and Director of Public Works shall review, concur and provide a recommendation on all agreements and documents requiring the Mayor's signature.

SECTION TWO

That the Mayor of the City of Wildwood is hereby authorized to execute any and all agreements and documents which are necessary to maintain the city's eligibility to receive Federal funding for the Missouri Route 109 Pedestrian Tunnel project under Federal Project No. TAP-5602(623).

SECTION THREE.

This ordinance shall be in full force and effect on and after its passage and approval.

This Bill was passed and approved the_____day of _____2016 by the Council of the City of Wildwood after having been read by the title or in full two times prior to passage.

_____ _____

PRESIDING OFFICER TIMOTHY WOERTHER, MAYOR

ATTEST: ATTEST:

_____ _____

City Clerk City Clerk

CCO Form: FS25
Approved: 04/95 (MGB)
Revised: 07/15 (MWH)
Modified:

CFDA Number: 20.205
CFDA Title: Highway Planning and Construction
Award name/number: TAP – 5602(623)
Award Year: 2016
Federal Agency: Federal Highway Administration, Department of Transportation

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
TRANSPORTATION ALTERNATIVES FUNDS
PROGRAM AGREEMENT

THIS AGREEMENT is entered into by the Missouri Highways and Transportation Commission (hereinafter, "Commission") and the City of Wildwood (hereinafter, “City”).

WITNESSETH:

NOW, THEREFORE, in consideration of the mutual covenants, promises and representations in this Agreement, the parties agree as follows:

(1) PURPOSE: The United States Congress has authorized, in MAP-21 §1122; 23 U.S.C. §101, §106 and §213; SAFETEA-LU §1404 funds to be used for transportation alternatives activities. The purpose of this Agreement is to grant the use of such transportation enhancement funds to the City.

(2) LOCATION: The transportation alternatives funds which are the subject of this Agreement are for the project at the following location: Route 109 Pedestrian Tunnel, immediately south of MO 100

The general location of the project is shown on attachment marked "Exhibit A" and incorporated herein by reference.

(3) REASONABLE PROGRESS POLICY: The project as described in this agreement is subject to the reasonable progress policy set forth in the Local Public Agency (LPA) Manual and the final deadline specified in Exhibit B attached hereto and incorporated herein by reference. In the event, the LPA Manual and the final deadline within Exhibit B conflict, the final deadline within Exhibit B controls. If the project is within a Transportation Management Area that has a reasonable progress policy in place, the project is subject to that policy. If the project is withdrawn for not meeting reasonable progress, the City agrees to repay the Commission for any progress payments made to the City for the project and agrees that the Commission may deduct

progress payments made to the City from future payments to the City. The City may not be eligible for future Transportation Alternatives Funds if the City does not meet the reasonable progress policy.

(4) INDEMNIFICATION:

(A) To the extent allowed or imposed by law, the City shall defend, indemnify and hold harmless the Commission, including its members and the Missouri Department of Transportation (MoDOT or Department) employees, from any claim or liability whether based on a claim for damages to real or personal property or to a person for any matter relating to or arising out of the City's wrongful or negligent performance of its obligations under this Agreement.

(B) The City will require any contractor procured by the City to work under this Agreement:

1. To obtain a no cost permit from the Commission's district engineer prior to working on the Commission's right-of-way, which shall be signed by an authorized contractor representative (a permit from the Commission's district engineer will not be required for work outside of the Commission's right-of-way); and

2. To carry commercial general liability insurance and commercial automobile liability insurance from a company authorized to issue insurance in Missouri, and to name the Commission, and MoDOT and its employees, as additional named insureds in amounts sufficient to cover the sovereign immunity limits for Missouri public entities as calculated by the Missouri Department of Insurance, Financial Institutions and Professional Registration, and published annually in the Missouri Register pursuant to Section 537.610, RSMo. The City shall cause insurer to increase the insurance amounts in accordance with those published annually in the Missouri Register pursuant to Section 537.610, RSMo.

(C) In no event shall the language of this Agreement constitute or be construed as a waiver or limitation for either party's rights or defenses with regard to each party's applicable sovereign, governmental, or official immunities and protections as provided by federal and state constitution or law.

(5) AMENDMENTS: Any change in this Agreement, whether by modification or supplementation, must be accomplished by a formal contract amendment signed and approved by the duly authorized representatives of the City and the Commission.

(6) COMMISSION REPRESENTATIVE: The Commission's District Engineer is designated as the Commission's representative for the purpose of administering the provisions of this Agreement. The Commission's representative may designate by written notice other persons having the authority to act on behalf of the Commission in furtherance of the performance of this Agreement.

(7) NONDISCRIMINATION ASSURANCE: With regard to work under this Agreement, the City agrees as follows:

(A) Civil Rights Statutes: The City shall comply with all state and federal statutes relating to nondiscrimination, including but not limited to Title VI and Title VII of the Civil Rights Act of 1964, as amended (42 U.S.C. §2000d and §2000e, *et seq*.), as well as any applicable titles of the "Americans with Disabilities Act" (42 U.S.C. §12101, *et seq*.). In addition, if the City is providing services or operating programs on behalf of the Department or the Commission, it shall comply with all applicable provisions of Title II of the "Americans with Disabilities Act".

(B) Administrative Rules: The City shall comply with the administrative rules of the United States Department of Transportation relative to nondiscrimination in federally-assisted programs of the United States Department of Transportation (49 C.F.R. Part 21) which are herein incorporated by reference and made part of this Agreement.

(C) Nondiscrimination: The City shall not discriminate on grounds of the race, color, religion, creed, sex, disability, national origin, age or ancestry of any individual in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The City shall not participate either directly or indirectly in the discrimination prohibited by 49 C.F.R. §21.5, including employment practices.

(D) Solicitations for Subcontracts, Including Procurements of Material and Equipment: These assurances concerning nondiscrimination also apply to subcontractors and suppliers of the City. These apply to all solicitations either by competitive bidding or negotiation made by the City for work to be performed under a subcontract including procurement of materials or equipment. Each potential subcontractor or supplier shall be notified by the City of the requirements of this Agreement relative to nondiscrimination on grounds of the race, color, religion, creed, sex, disability or national origin, age or ancestry of any individual.

(E) Information and Reports: The City shall provide all information and reports required by this Agreement, or orders and instructions issued pursuant thereto, and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Commission or the United States Department of Transportation to be necessary to ascertain compliance with other contracts, orders and instructions. Where any information required of the City is in the exclusive possession of another who fails or refuses to furnish this information, the City shall so certify to the Commission or the United States Department of Transportation as appropriate and shall set forth what efforts it has made to obtain the information.

(F) Sanctions for Noncompliance: In the event the City fails to comply with the nondiscrimination provisions of this Agreement, the Commission shall impose such contract sanctions as it or the United States Department of Transportation may

determine to be appropriate, including but not limited to:

1. Withholding of payments under this Agreement until the City complies; and/or

2. Cancellation, termination or suspension of this Agreement, in whole or in part, or both.

(G) Incorporation of Provisions: The City shall include the provisions of paragraph (7) of this Agreement in every subcontract, including procurements of materials and leases of equipment, unless exempted by the statutes, executive order, administrative rules or instructions issued by the Commission or the United States Department of Transportation. The City will take such action with respect to any subcontract or procurement as the Commission or the United States Department of Transportation may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided that in the event the City becomes involved or is threatened with litigation with a subcontractor or supplier as a result of such direction, the City may request the United States to enter into such litigation to protect the interests of the United States.

(8) ASSIGNMENT: The City shall not assign, transfer or delegate any interest in this Agreement without the prior written consent of the Commission.

(9) LAW OF MISSOURI TO GOVERN: This Agreement shall be construed according to the laws of the State of Missouri. The City shall comply with all local, state and federal laws and regulations relating to the performance of this Agreement.

(10) CANCELLATION: The Commission may cancel this Agreement at any time for a material breach of contractual obligations by providing the City with written notice of cancellation. Should the Commission exercise its right to cancel this Agreement for such reasons, cancellation will become effective upon the date specified in the notice of cancellation sent to the City.

(11) ACCESS TO RECORDS: The City and its contractors must maintain all records relating to this Agreement, including but not limited to invoices, payrolls, etc. These records must be available at no charge to the Federal Highway Administration (FHWA) and the Commission and/or their designees or representatives during the period of this Agreement and any extension, and for a period of three (3) years after the date on which the City receives reimbursement of their final invoice from the Commission.

(12) FEDERAL-AID PROVISIONS: Because responsibility for the performance of all functions or work contemplated as part of this project is assumed by the City, and the City may elect to construct part of the improvement contemplated by this Agreement with its own forces, a copy of Section II and Section III, as contained in the United States Department of Transportation Form Federal Highway Administration (FHWA)

1273 "Required Contract Provisions, Federal-Aid Construction Contracts," is attached and made a part of this Agreement as Exhibit C. Wherever the term "the contractor" or words of similar import appear in these sections, the term “the City” is to be substituted. The City agrees to abide by and carry out the condition and obligations of "the contractor" as stated in Section II, Equal Opportunity, and Section III, Nonsegregated Facilities, as set out in Form FHWA 1273.

(13) ACQUISITION OF RIGHT OF WAY: With respect to the acquisition of right of way necessary for the completion of the project, City shall acquire any additional necessary right of way required for this project and in doing so agrees that it will comply with all applicable federal laws, rules and regulations, including 42 U.S.C. 4601-4655, the Uniform Relocation Assistance and Real Property Acquisition Act, as amended and any regulations promulgated in connection with the Act. However, upon written request by the City and written acceptance by the Commission, the Commission shall acquire right of way for the City. Upon approval of all agreements, plans and specifications by the Commission and by the FHWA, the Commission will file copies of said plans in the office of the County clerk: and proceed to acquire by negotiation and purchase or by condemnation any necessary right of way required for the construction of the improvement contemplated herein. All right of way acquired by negotiation and purchase will be acquired in the name of City, and the City will pay to grantors thereof the agreed upon purchase prices. All right of way acquired through condemnation proceedings will be acquired in the name of the State of Missouri and subsequently released to the City. The City shall pay into court all awards and final judgments in favor of any such condemnees. The City shall also reimburse the Commission for any expense incurred by the Commission in acquiring said right of way, including but not limited to the costs of surveying, appraisal, negotiation, condemnation, and relocation assistance benefits. Unless otherwise agreed to in writing the Commission shall have the final decision regarding the settlement amount in condemnation.

(14) MAINTENANCE OF DEVELOPMENT: The City shall maintain the herein contemplated improvements without any cost or expense to the Commission. All maintenance by the City shall be done for the safety of the general public and the esthetics of the area. In addition, if any sidewalk or bike trails are constructed on the Commission's right-of-way pursuant to this Agreement, the City shall inspect and maintain the sidewalk or bike trails constructed by this project in a condition reasonably safe to the public and, to the extent allowed by law, shall indemnify and hold the Commission harmless from any claims arising from the construction and maintenance of said sidewalk or bike trails. If the City fails to maintain the herein contemplated improvements, the Commission or its representatives, at the Commission's sole discretion shall notify the City in writing of the City’s failure to maintain the improvement. If the City continues to fail in maintaining the improvement, the Commission may remove the herein contemplated improvement whether or not the improvement is located on the Commission's right of way. Any removal by the Commission shall be at the sole cost and expense of the City. Maintenance includes but is not limited to mowing and trimming between shrubs and other plantings that are part of the improvement.

(15) PLANS: The City shall prepare preliminary and final plans and specifications for the herein improvements. The plans and specifications shall be submitted to the Commission for the Commission's review and approval. The Commission has the discretion to require changes to any plans and specification prior to any approval by the Commission.

(16) REIMBURSEMENT: The cost of the contemplated improvements will be borne by the United States Government and by the City as follows:

(A) Any federal funds for project activities shall only be available for reimbursement of eligible costs which have been incurred by City. Any costs incurred by City prior to authorization from FHWA and notification to proceed from the Commission are **not** reimbursable costs. The federal share for this project will be 50 percent not to exceed $350,000. The calculated federal share for seeking federal reimbursement of participating costs for the herein improvements will be determined by dividing the total federal funds applied to the project by the total participating costs. Any costs for the herein improvements which exceed any federal reimbursement or are not eligible for federal reimbursement shall be the sole responsibility of City. The Commission shall not be responsible for any costs associated with the herein improvement unless specifically identified in this Agreement or subsequent written amendments.

(17) PROGRESS PAYMENTS: The City may request progress payments be made for the herein improvements as work progresses but not more than once every two weeks. Progress payments must be submitted monthly. The City shall repay any progress payments which involve ineligible costs.

(18) PROMPT PAYMENTS: Progress invoices submitted to MoDOT for reimbursement more than thirty (30) calendar days after the date of the vendor invoice shall also include documentation that the vendor was paid in full for the work identified in the progress invoice. Examples of proof of payment may include a letter or e-mail from the vendor, lien waiver or copies of cancelled checks. Reimbursement will not be made on these submittals until proof of payment is provided. Progress invoices submitted to MoDOT for reimbursement within thirty (30) calendar days of the date on the vendor invoice will be processed for reimbursement without proof of payment to the vendor. If the City has not paid the vendor prior to receiving reimbursement, the City must pay the vendor within two (2) business days of receipt of funds from MoDOT.

(19) PERMITS: The City shall secure any necessary approvals or permits from any federal or state agency as required for the completion of the herein improvements. If this improvement is on the right of way of the Commission, the City must secure a permit from the Commission prior to the start of any work on the right of way. The permits which may be required include, but are not limited to, environmental, architectural, historical or cultural requirements of federal or state law or regulation.

(20) INSPECTION OF IMPROVEMENTS AND RECORDS: The City shall assure that representatives of the Commission and FHWA shall have the privilege of inspecting and reviewing the work being done by the City's contractor and subcontractor on the herein project. The City shall also assure that its contractor, and all subcontractors, if any, maintain all books, documents, papers and other evidence pertaining to costs incurred in connection with the Transportation Enhancement Program Agreement, and make such materials available at such contractor's office at all reasonable times at no charge during this Agreement period, and for three (3) years from the date of final payment under this Agreement, for inspection by the Commission, FHWA or any authorized representatives of the Federal Government and the State of Missouri, and copies shall be furnished, upon request, to authorized representatives of the Commission, State, FHWA, or other Federal agencies.

(21) CREDIT FOR DONATIONS OF FUNDS, MATERIALS, OR SERVICES: A person may offer to donate funds, materials or services in connection with this project. Any donated funds, or the fair market value of any donated materials or services that are accepted and incorporated into this project shall be credited according to 23 U.S.C. §323.

(22) DISADVANTAGED BUSINESS ENTERPRISES (DBE): The Commission will advise the City of any required goals for participation by disadvantaged business enterprises (DBEs) to be included in the City's proposal for the work to be performed. The City shall submit for Commission approval a DBE goal or plan. The City shall comply with the plan or goal that is approved by the Commission and all requirements of 49 C.F.R. Part 26, as amended.

(23) VENUE: It is agreed by the parties that any action at law, suit in equity, or other judicial proceeding to enforce or construe this Agreement, or regarding its alleged breach, shall be instituted only in the Circuit Court of Cole County, Missouri.

(24) NOTICE TO BIDDERS: The City shall notify the prospective bidders that disadvantaged business enterprises shall be afforded full and affirmative opportunity to submit bids in response to the invitation and will not be discriminated against on grounds of race, color, sex, or national origin in consideration for an award.

(25) FINAL AUDIT: The Commission may, in its sole discretion, perform a final audit of project costs. The United States Government shall reimburse the City, through the Commission, any monies due. The City shall refund any overpayments as determined by the final audit.

(26) OMB AUDIT: If the City expend(s) seven hundred fifty thousand dollars ($750,000) or more in a year in federal financial assistance it is required to have an independent annual audit conducted in accordance with 2 CFR Part 200. A copy of the audit report shall be submitted to MoDOT within the earlier of thirty (30) days after receipt of the auditor's report(s), or nine (9) months after the end of the audit period. Subject to the requirements of 2 CFR Part 200, if the City expend(s) less than seven

hundred fifty thousand dollars ($750,000) a year, the City may be exempt from auditing requirements for that year but records must be available for review or audit by applicable state and federal authorities.

(27) FEDERAL FUNDING ACCOUNTABILITY AND TRANSPARENCY ACT OF 2006: The City shall comply with all reporting requirements of the Federal Funding Accountability and Transparency Act (FFATA) of 2006, as amended. This Agreement is subject to the award terms within 2 C.F.R. Part 170.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the parties have entered into this Agreement on the date last written below.

Executed by the City this ____ day of _____, 20__.

Executed by the Commission this ____ day of _____, 20___.

MISSOURI HIGHWAYS AND
TRANSPORTATION COMMISSION

_____

Title _____

ATTEST:

_____
Secretary to the Commission

Approved as to Form:

_____
Commission Counsel

City

By _____

Title _____

ATTEST:

By _____

Title _____

Approved as to Form:

_____

Title _____

Ordinance No _____

**If contracting party is a County with a county commission form of government, the execution page needs to be modified to allow the three county commissioners to execute the agreement.*

Exhibit A - Location of Project

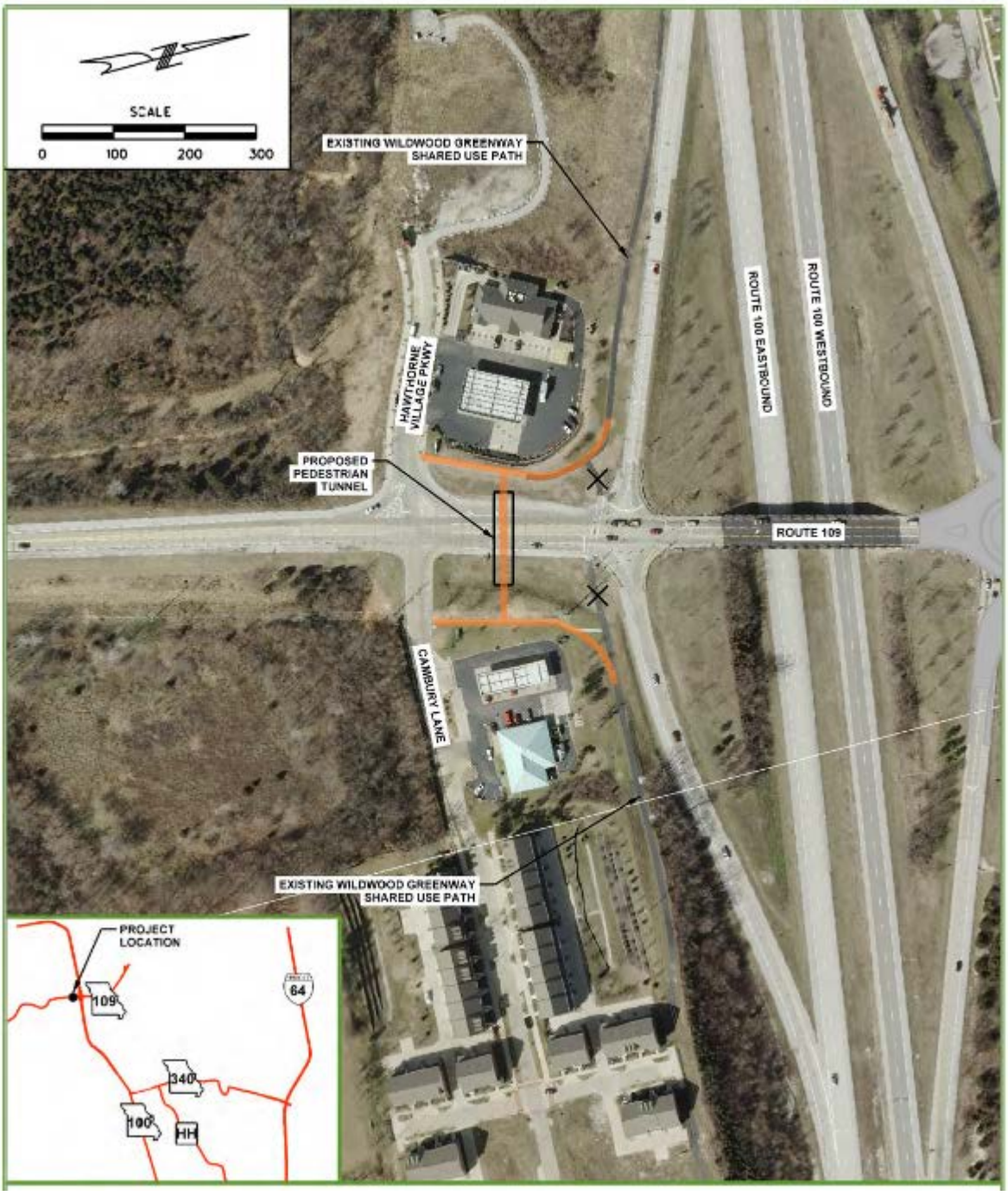

Exhibit B – Project Schedule

Project Description: City of Wildwood, TAP-5602(623), MO 109 Pedestrian Tunnel

PROJECT DEVELOPMENT SCHEDULE **Many stages can occur concurrently.*

Activity Description	State Date (MM/YYYY)	Finish Date (MM/YYYY)	Time Frame (Months)
Receive notification letter	02/2016	02/2016	
Execute agreement (project sponsor and DOT)	06/2016	08/2016	2
Engineering services contract submitted and approved	06/2016	08/2016	2
Obtain environmental clearances (106, CE-2, etc.)	8/2016	10/2016	2
Public meeting/hearing	10/2016		
Develop and submit preliminary plans	08/2016	10/2016	2
Preliminary plans approved	10/2016	12/2016	2
Develop and submit right-of-way plans	12/2016	1/2017	1
Review and approval of right-of-way plans	1/2017	3/2017	2
Submit and receive approval for notice to proceed for right-of-way acquisition (A-Date)	1/2017	3/2017	2
Right-of-way acquisition	4/2017	12/2017	8
Utility coordination	4/2017	2/2018	10
Develop and submit PS&E	4/2017	2/2018	10
District approval of PS&E/advertise for bids	2/2018	5/2018	3
Submit and receive bids for review and approval	5/2018	8/2018	3
Project implementation/construction	9/2018	8/2019	11

*Note: the dates established in the schedule above will be used in the applicable ESC between the sponsor agency and consultant firm.

**Schedule dates are approximate as the project schedule will be actively managed and issues mitigated through the project delivery process. The Award Date or Planning Study Date deliverable is not approximate and a Supplemental Agreement is required to modify this date.

Exhibit C

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

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ATTACHMENTS

A. Employment Preference for Appalachian Contracts (included in Appalachian contracts only)

I. GENERAL

1. These contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.

3. A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.

4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12:

Section I, paragraph 2;
Section IV, paragraphs 1, 2, 3, 4, and 7;
Section V, paragraphs 1 and 2a through 2g.

5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.

6. **Selection of Labor:** During the performance of this contract, the contractor shall not:

a. discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or

b. employ convict labor for any purpose within the limits of the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $10,000 or more.)

1. **Equal Employment Opportunity:** Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630 and 41 CFR 60) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.

b. The contractor will accept as his operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job training."

2. **EEO Officer:** The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

3. **Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. **Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed

in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

5. **Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

6. **Training and Promotion:**

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.

7. **Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.

b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the SHA and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.

8. **Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:** The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.

c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

9. **Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and

(4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA

each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. If on-the job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $10,000 or more.)

a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).

c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of $10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding $2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. **General:**

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any account [except such payroll deductions as are permitted by regulations (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.

c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. **Classification:**

a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.

b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:

(1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;

(2) the additional classification is utilized in the area by the construction industry;

(3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) with respect to helpers, when such a classification prevails in the area in which the work is performed.

c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary

e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. **Payment of Fringe Benefits:**

a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.

b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

(1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.

(2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

(3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

(4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

(1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.

(2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which case such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV.2. Any worker listed on a payroll at a helper wage rate, who is not a helper under a approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

5. Apprentices and Trainees (Programs of the U.S. DOT):

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of $10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding $2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference.

2. Payrolls and Payroll Records:

a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.

b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices, trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period). The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete;

(2) that such laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;

(3) that each laborer or mechanic has been paid not less that the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.

e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.

f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

1. On all Federal-aid contracts on the National Highway System, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than $1,000,000 (23 CFR 635) the contractor shall:

a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.

b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.

c. Furnish, upon the completion of the contract, to the SHA resident engineer on Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.

2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635).

a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of

a subcontractor, assignee, or agent of the prime contractor.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more that $10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of $100,000 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

3. That the firm shall promptly notify the SHA of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

1. **Instructions for Certification - Primary Covered Transactions:**

(Applicable to all Federal-aid contracts - 49 CFR 29)

a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this

transaction for cause of default.

d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

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Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

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2. **Instructions for Certification - Lower Tier Covered Transactions:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions of $25,000 or more - 49 CFR 29)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and

frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

*****

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

*****

XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 - 49 CFR 20)

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT PREFERENCE FOR APPALACHIAN CONTRACTS
(Applicable to Appalachian contracts only.)

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph 1c shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph 4 below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which he estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, he shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within 1 week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph 1c above.

5. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

BILL # 2165 **ORDINANCE # 2165**

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING THE MAYOR OF THE CITY OF WILDWOOD, MISSOURI TO EXECUTE AN AMENDED CONTRACT ON BEHALF OF IT WITH OATES ASSOCIATES FOR ITS ON-GOING DEVELOPMENT OF ENGINEERED DRAWINGS/PLANS, ALONG WITH CONSTRUCTION MANAGEMENT AND ADMINISTRATION, FOR THE EXTENSION OF THE PARK'S INTERNAL ROADWAY, TO THE WESTERN TERMINUS OF POND-GROVER LOOP ROAD, IN ASSOCIATION WITH THE COMMUNITY PARK PROJECT – PHASE 2, CONSISTENT WITH THE ATTACHED CONTRACT AND EXHIBITS, WHICH ARE BEING RECOMMENDED BY THE PLANNING/ECONOMIC DEVELOPMENT/PARKS COMMITTEE OF CITY COUNCIL. (Wards - All)

WHEREAS, in 2006, the City Council appointed a Citizens Committee for Park Progress (CCPP) to review and define the future of park and recreation efforts in the City of Wildwood; and

WHEREAS, this process involved a lengthy public engagement effort that included a professionally designed and administered random survey of three thousand (3,000) Wildwood households; and

WHEREAS, the output of this effort was statistically significant data that led the Committee to develop an Action Plan for Parks and Recreation that contains four (4) goals this group believed were essential for the City Council to implement over the next five (5) to ten (10) year period of time; and

WHEREAS, one (1) of the recommendations in this Action Plan for Parks and Recreation was for the City to purchase property that could accommodate a community park, in a central location of it and near Town Center; and

WHEREAS, in 2009, the City of Wildwood purchased a sixty-six (66) acre parcel of ground located near the intersection of State Routes 109 and 100 for the purposes of a future community park site; and

WHEREAS, in 2010, the City hired Oates Associates to manage a public engagement effort and complete a conceptual design of the site that was in keeping with the needs of the community and input of residents and future users of this planned facility; and

WHEREAS, the City's consultant, along with assistance from a citizen advisory panel, undertook this effort for approximately one (1) year, which resulted in the development of a Concept Plan that was ultimately adopted by both the Planning and Zoning Commission and City Council; and

WHEREAS, the City Council, as part of the City's Capital Improvements Budget, set aside three hundred thousand dollars ($300,000.00) for the design and engineering plans/specifications for Phase One of the community park (based upon this Concept Plan), which initiated a Request for Qualifications (RFQ) for this project, and Oates Associates was selected to complete these plans and specifications due to its background and expertise in this regard; and

WHEREAS, thereafter, two (2) bid efforts were held on the community park project, resulting in the selection of Gershenson Construction for the general contracting work in association with Phase One of it; and

WHEREAS, with the Phase One project work now completed, the Department of Planning and Parks noted an opportunity to complete the access roadway between State Route 100 on the south end and Pond-Grover Loop Road on the east end, sooner than later, given other factors that

appear to favor such, which include the completion of the western extension of Pond-Grover Loop Road to the park's eastern boundary, the stockpiling of fill on the site for the roadway bed's construction, and the availability of funding in the 2016 Capital Improvements Program budget for this project; and

WHEREAS, the Planning/Economic Development/Parks Committee discussed this new phase and agreed that Oates Associates had the best level of experience with this property and it proposed amending its original contract to include construction administration and management at an additional cost of six thousand five hundred dollars ($6,500.00), thereby increasing the cost of the original agreement from $43,800.00 to $50,300.00; and

WHEREAS, this action, on the part of the Planning/Economic Development/Parks Committee, was taken on February 23, 2016, while authorizing its presentation to City Council for its consideration and action.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AS FOLLOWS:

Section One. The Mayor of the City of Wildwood, Missouri is hereby authorized to execute on behalf of the City of Wildwood, Missouri an amended contract with Oates Associates for the on-going development of engineered drawings/plans, along with construction administration and management, in conjunction with the community park project- Phase 2, such being consistent with the Scope of Work and other information that has been provided by the consultant and presented to the City and included herein.

Section Two. The total expenses and liability of the City may incur under this amended contract shall not exceed maximum sum of fifty thousand three hundred dollars ($50,300.00), as set forth in Attachment B of the accompanying contract.

Section Three. This Ordinance shall be in full force and effect from and after its passage and approval.

This Bill was passed and approved this _____ day of, 2016, by the Council of the City of Wildwood, Missouri, after having been read by title, or in full two (2) times, prior to its passage.

_____ _____

Presiding Officer The Honorable Timothy Woerther, Mayor

ATTEST:

_____ _____

City Clerk City Clerk

City of Wildwood
CONSULTANT / SERVICES AGREEMENT

DEPARTMENT: **Planning and Parks** DATE: **March 15, 2016**

THIS AGREEMENT, made and effective this **15th day of March 2016**, by and between the **City of Wildwood, Missouri**, a municipal corporation hereinafter referred to as "City", and **Oates Associates**, hereinafter referred to as "Consultant", with a business address of: **720 Olive Boulevard, Suite 700, St. Louis, Missouri 63101**.

WITNESSETH: That the parties hereto, for the considerations hereinafter set forth, agree as follows:

I. SCOPE OF SERVICES

Except as expressly specified herein, Consultant hereby agrees to provide all of the supervision, labor, technical services, facilities, materials, tools, equipment, and apparatus, and to perform all the services and do all the things necessary for the proper completion of the Consultant services which are particularly described in any attachments incorporated herein and additionally as follows:
To provide construction administration and management services to the City of Wildwood, Missouri during its development of Phase II of the Community Park Project, which includes a roadway extension, trail completion, preparatory work in the Great Meadow Area of the site, and associated grading and stormwater improvements required therein, as detailed and set forth in Attachment B of this Agreement.

The above services (hereinafter referred to as the "Work") shall be provided by the Consultant in accordance with all the provisions of this Agreement, including the General Conditions attached hereto as Attachment A, for the project which are incorporated herein by reference, and which terms shall prevail over any conflicting terms that may otherwise be adopted herein as part of any attachment, or any other documents submitted by Consultant.

II. COMPENSATION

A. Basic Compensation. The City hereby agrees to pay the Consultant, as full compensation for the complete and satisfactory performance of the Work, and all expenses and costs related thereto:

A sum not to exceed an additional **six thousand five hundred dollars ($6,500.00)**, as set forth on an Attachment B attached hereto and incorporated herein.

B. Additional Compensation. Any cost not specifically allowed the Consultant pursuant to Paragraph A, Basic Compensation, shall be considered Additional Compensation and must first be authorized by a written Change Order approved by the City and Consultant. If City directs or authorizes additional services not included in this Agreement to be performed, the City and Consultant shall first agree by written Change Order as to how the Consultant is to be paid. Any services provided in addition to the Work shall not entitle Consultant to additional compensation

unless approved in advance and by written Change Order executed by the City and the Consultant.

III. TIME AND MANNER OF PAYMENTS

All invoices, complete with necessary support documentation, shall be submitted to the City and payment shall be made by City in a lump sum within thirty (30) days of receipt of an invoice received after satisfactory performance of the Work for the fees, prices, rates or schedule of values set forth above. When appropriate due to the nature of the Work of the Agreement, progress payments may be authorized to be made based upon completion of quantifiable/identifiable phases of the Work. If authorized by the City, a schedule of progress payments based on phases of Work completed and in such corresponding amounts as determined to be appropriate shall be set forth in Attachment C attached hereto.

IV. SCHEDULE OF WORK

Time is of the essence. The Work to be performed under the Agreement shall be commenced on or before **March 15, 2015 (Tuesday)**, shall be completed on or before **July 29, 2016 (Friday)**, and shall be performed so as not to delay or hinder City's schedule for the project, if applicable.

IN WITNESS WHEREOF, the parties hereto have signed this Agreement as of the effective date of Contract first above written.

_____	_____
Consultant	City of Wildwood
By _____	By _____
Title _____	Title _____
	ATTEST:
	_____
	DATE: _____

ATTACHMENT A – Consultant/Services Agreement General Conditions
ATTACHMENT B – Consultant Proposal
ATTACHMENT C – Progress Payment Schedule (Optional)
ATTACHMENT D – Consultant Liability Insurance Requirements

Attachment A

City of Wildwood
CONSULTANT/SERVICES AGREEMENT
GENERAL CONDITIONS

1. Independent Consultant. The Consultant shall be and operate as an independent Consultant in the performance of this Agreement. The Consultant shall have complete charge of the personnel engaged in the performance of the Work, and all persons employed by the Consultant shall be employees of said Consultant and not employees of the City in any respect.

2. Assignment; Subcontracts. This Agreement shall not be assigned to any other parties by the Consultant without the express written consent of the City. In addition, the Consultant shall not subcontract or assign any of the Work to be performed by it hereunder without the express written consent of the City except as may be set forth in Attachment B.

3. Proposals for the Work. If the City issued a request for proposals in connection with the Work, such request for proposals and the proposal of the Consultant in response thereto, are incorporated herein by reference and made a part of this Agreement. In case of any conflicts between the request for proposals and the proposal of the Consultant, the requirements of the executed Consultant/Services Agreement shall control unless a change thereto is specifically stated in this Agreement.

4. Changes to Work and/or Compensation. No change in the Scope of Work, Compensation or terms contained in this Agreement shall be made except as authorized in advance in writing by Change Order approved by the City and Consultant. The Consultant shall make any and all changes in the Work without invalidating this Agreement when specifically ordered to do so by written Change Order approved by the City and Consultant in advance of the Work being performed. Consultant, prior to the commencement of such changed or revised Work or request for compensation in excess of the Basic Compensation, shall promptly submit to the City a written cost or credit proposal for such changed or revised Work or additional compensation. If the City and Consultant shall not be able to agree as to the amount, either in consideration of time or compensation to be allowed or deducted, it shall nevertheless be the duty of Consultant, upon written notice from the City, to immediately proceed with such alteration or change, and Consultant shall be compensated the reasonable value of such Work. The City reserves the right to suspend Work of the Consultant upon written notification from the City if the City and Consultant are not able to agree as to matters of scope and compensation for changes to the Work.

5. Indemnification. To the fullest extent permitted by law, the Consultant agrees to defend, indemnify and hold harmless the City, its officers, engineers, representatives, agents and employees from and against any and all liabilities, damages, losses, claims or suits, including costs and attorneys' fees, for or on account of any kind of injury to person, bodily or otherwise, or death, or damage to or destruction of property, or any other circumstances, sustained by the City or others, in any way arising from consultant's breach of the Agreement or out of services and/or operations negligently performed hereunder by the Consultant, including the City's reliance on or use of the services or products provided by the Consultant under the terms of this Agreement. The Consultant shall not be liable for any loss or damage attributable solely to the negligence of the City. Consultant's sole remedy against the City for any claimed breach shall be limited to specific performance of the Agreement, including payment not to exceed the lawfully due compensation, but in no event shall the City be liable for or subject to any claim for damages, costs or attorneys' fees arising from this Agreement.

6. Insurance. Consultant shall furnish the City the certificates of insurance for workers' compensation, public liability, and property damage, including automobile coverage in the amounts specified by the City in the request for proposals, if any, otherwise in the amounts stated on Attachment D. The policies of insurance shall be in such form and shall be issued by such company or companies as may be reasonably satisfactory to the City. The City and such additional persons and entities as may be

deemed to have an exposure to liability as a result of the performance of the Consultant's Work, as determined by the City, shall be named as additional insured.

In addition to the foregoing, the Consultant shall maintain Professional Liability "errors and omissions" insurance in the form for the coverages satisfactory to City as indicated in the request for proposals, if any, otherwise as stated on attached Attachment D, but in no event less than the City's sovereign immunity limits as established by RSMo. §537.610, as adjusted from time to time. The City and Consultant waive all rights against each other for damages caused by fire or other perils to the extent covered by Builder's Risk or any other property insurance, except such rights as they may have to the proceeds of such insurance. Nothing in this Agreement, or the provision of insurance, shall be deemed a waiver of sovereign immunity by the City.

7. Multi-year contracts; Non-appropriation. Notwithstanding any provision herein to the contrary, the City is obligated only to make the payments set forth in this Agreement as may lawfully be made from funds budgeted and appropriated for that purpose during the City's then current fiscal year at the discretion of the City. If no funds are appropriated or otherwise made legally available to make the required payments for this Agreement during the next occurring fiscal year (an "Event of Non-appropriation"), this Agreement will terminate at the end of the then current fiscal year as if terminated expressly . The failure or inability of the City to appropriate funds for this Agreement in any subsequent fiscal year shall not be deemed a breach of this Agreement by any party. If applicable, this Agreement may be annually renewed at each fiscal year by inclusion of specific appropriation for this Agreement, from year to year not to exceed the maximum renewal period or term as set forth in the Agreement.

8. Accounting. During the period of this Agreement, the Consultant shall maintain books of accounts of its expenses and charges in connection with this Agreement in accordance with generally accepted accounting principles and practices. The City shall at reasonable times have access to these books and accounts to the extent required to verify all invoices submitted hereunder by the Consultant.

9. Reimbursable Expenses. Expenses of the Consultant that are directly attributable to the performance of the Agreement that are in addition to the Basic Compensation, such as reproduction charges, travel expenses, long distance phone calls, mileage, and sub-contractors, are to be set forth in a schedule of reimbursable fees and rates as part of the Agreement. Consultant personnel labor rate expenses for time while traveling in performance of the Agreement do not qualify as reimbursable expenses.

10. Personnel. The Work shall be performed exclusively by the personnel of the Consultant identified in the Consultant's proposal and no other personnel of the Consultant shall perform any of the Work without the express written approval of the City.

11. Other Consultants. The City reserves the right to employ other consultants in connection with the Work.

12. Project Records and Work Product. The Consultant shall provide the City with copies of all documents pertinent to the Work which shall include, without limitation, reports, correspondence, meeting minutes, and any deliverables. The City shall own all right, title and interest, including without limitations, all copyrights and intellectual property rights, to all documents and work product of the Consultant created in performance of or relating to this Agreement. Consultant agrees to take all steps reasonably requested by the City to evidence, maintain, and defend the City's ownership rights in the work product.

13. Site Operations. Where appropriate, the City will arrange for right of entry to any property at the request of the Consultant for the purpose of performing studies, tests and evaluations in connection with the Work.

14. **Termination**. The City shall have the right to terminate the Agreement at any time for any reason by giving the Consultant written notice to such effect. The City shall pay to the Consultant in full satisfaction and discharge of all amounts owing to the Consultant under the Agreement an amount equal to the cost of all Work performed by the Consultant up to such termination date, less all amounts previously paid to the Consultant on account of the Work performed and accepted. The Consultant shall submit to the City its statement for the aforesaid amount, in such reasonable detail as the City shall request, within thirty (30) days after such date of termination. The City shall not be liable to the Consultant for any damages on account of such termination for loss of anticipated future profits with respect to the remainder of the Work.

15. Compliance with Laws. The Consultant shall comply with all applicable City ordinances and other laws and regulations, Federal, State, and any political subdivision thereof, including but not limited to, unemployment and workers' compensation, occupational safety, worker eligibility, equal employment and affirmative action and wage and price laws insofar as applicable to the performance of the Agreement.

16. Nondisclosure. The Consultant agrees that it will not divulge to third parties without the written consent of the City any information obtained from or through the City in connection with the performance of this Agreement.

17. Representations. Consultant agrees that it has not relied on any representations or warranties of the City, oral or written, other than expressly identified in this Agreement. The parties agree the Agreement represents the entire agreement between the parties.

18. Amendments. This Agreement may be amended only by written agreement signed by the parties.

19. Governing Law. The interpretation of and performance under this Agreement shall be governed by the laws of the state of Missouri, without regard to choice of law principles.

20. Severability. If any provisions of this Agreement shall be found to be illegal, invalid or unenforceable by a court of competent jurisdiction, the remainder of this Agreement shall remain in full force and effect and be construed to effectuate the intent of the parties.

21. Notice. Any notice or written communication required or permitted hereunder shall be sent to the parties via United States mail, certified return receipt requested, or via facsimile, to the respective addresses and numbers on file. Any notice so given shall be deemed effective on the date shown on the receipt thereof.

22. Good Faith. The parties shall act in good faith in the performance of their obligations hereunder.

23. Prevailing Party. If either party to this Agreement defaults in the performance of its obligation(s) hereunder, the prevailing party in any action to enforce its rights and remedies shall be entitled to obtain its costs and reasonable attorney's fees from the non-prevailing party.

24. Non-Waiver. The failure of either party to enforce any of its rights hereunder shall not act as a waiver of that or any other right possessed by such party under this Agreement.

25. Authorization to Enter into Agreement. Each party hereunder represents to the other that it is duly organized, validly existing and in good standing under the laws of its state of incorporation or formation; the execution, delivery and performance of this Agreement by such party has been duly authorized by all necessary and appropriate action; and, this Agreement constitutes a valid and binding obligation of such party, enforceable against such party in accordance with the terms hereof.

26. Execution. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original and all of which shall constitute one agreement that is binding upon both parties hereto, notwithstanding that all parties are not signatories to the same counterpart. This Agreement may be delivered by facsimile or electronic mail transmission. This Agreement shall be considered to have been executed by a party, if there exists a photocopy, facsimile copy, electronic copy, or a photocopy of a facsimile or electronic copy of an original hereof or of a counterpart hereof which has been signed by such party. Any photocopy, facsimile copy, electronic copy or photocopy of a facsimile copy of this Agreement or any counterpart hereof shall be admissible into evidence in any proceeding as though the same was an original.

27. Other Special Provisions. The special provisions set forth on Attachments C and D are incorporated herein by reference, and made a part hereof.

"Attachment B"

OATES ASSOCIATES
Engineering + Architecture

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100 Lanter Court, Suite 1
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tel 618.345.2200
fax 618.345.7233

MISSOURI
Laclede Gas Building
720 Olive, Suite 700
St. Louis, MO 63101
tel 314.588.8381
fax 314.588.9605

www.oatesassociates.com

November 9, 2015

Joe Vujnich
City of Wildwood
Director of Planning and Parks
183 Plaza Drive
Wildwood, MO 63040

Re: Phase 2 - Community Park
Park Access Road/ Pond Grover Loop Road Extension
Modification 1

Dear Mr. Vujnich:

This letter will serve to modify our Agreement dated March 24, 2015 for the above reference project (hereinafter referred to as the Original Agreement), and authorizes additional engineering services and costs associated with changes in the scope of work. The additional services that have been requested are necessary to prepare a set of bid documents and provide bid assistance for the solicitation of a new general construction contract.

Originally, the Pond Grover Loop Road Extension was to be constructed as a change order to the general contract for the Phase 1 Community Park. Since US Fish and Wildlife will not permit tree removal until after November to minimize disturbance to a potential Indiana bat habitat, and the Phase 1 General Contract will be completed by that time, a separate set of sealed construction documents is required to publicly bid and administer the project to a new set of general contractors. Tasks associated with preparing a new set of construction documents include updating paving specifications and preparing a current set of front end documents. Tasks associated with bidding include answering questions during the bid period, opening bids, and recommending award to the lowest responsible bidder. Additional tasks associated with construction administration include administering a preconstruction meeting, holding bi-weekly progress meetings for a new contract, and performing a final walk-thru. We have also applied for environmental sign-offs that will apply to a new general contractor including MDNR land disturbance permits and coordinating tree clearing with US Fish and Wildlife for Indiana bat clearance.

The additional services will be provided under the terms and conditions of the Original Agreement. Billings for these services are estimated at $6,500, which will increase the Basic Compensation from $43,800 to $50,300.

Unless a more formal agreement is required, please sign and return one copy of this letter to document this change to the Original Agreement.

Sincerely,
OATES ASSOCIATES, INC.

Thom Z Cissell

Tom Cissell, PE
Project Manager

Accepted this_____ day of _____, 2015.

By: _____

Title: _____

Attachment C

(Optional)

Consultant/Services Agreement

Progress Payment Schedule

Consultant: _____ Date: _____

Project: _____ Basic Compensation: $_____

Phase of Work (Describe)	% of Total	Progress Payment
Phase I:	_____%	$_____
Phase II:	_____%	$_____
Phase III:	_____%	$_____
Phase IV:	_____%	$_____
Phase V:	_____%	$_____

Total Basic Compensation: $_____

Attachment D

Consultant Liability Insurance Requirements

The Consultant shall purchase and maintain in full force and effect the following insurance coverages with an insurance carrier acceptable to the City:

The policy(ies) shall be endorsed to cover the contractual liability of the Consultant under the General Conditions.

The Consultant and its Sub-consultants shall procure and maintain during the life of this Agreement insurance of the types and minimum amounts as follows:

(a) Workers' Compensation in full compliance with statutory requirements of Federal and State of Missouri law and Employers' Liability coverage in the amount of $1,000,000*.

(b) Comprehensive General Liability and Bodily Injury

Including Death:	$500,000 each person*
	$3,000,000 each occurrence*
Property Damage:	$3,000,000 each occurrence*
	$3,000,000 aggregate*

(c) Comprehensive Automobile Liability, Bodily Injury

Including Death:	$500,000 each person*
	$3,000,000 each occurrence*
Property Damage:	$3,000,000 each accident*

(d) Professional Liability

Including Death:	$500,000 each person*
	$3,000,000 each occurrence*
Property Damage:	$3,000,000 each occurrence*
	$3,000,000 aggregate*

The City's Protective policy shall name the City as the Insured. Certificates evidencing such insurance shall be furnished the City prior to Consultant commencing the Work on this project. The certificates must state "The City of Wildwood is an additional insured."

* but not less than the sovereign immunity limits established by RSMo. 537.610 et seq.

BILL NO.: 2166 **ORDINANCE NO.: 2166**

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING A CHANGE TO PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT ORDINANCE #2042, WHICH WOULD TRANSFER THE RESPONSIBILITY OF MAINTAINING AN ELEVEN (11) FOOT WIDE LANDSCAPE EASEMENT AREA THAT IS LOCATED IN THE WILDWOOD TRAIL SUBDIVISION FROM THAT HOMEOWNERS ASSOCIATION TO THE TOWNS AT WINDRUSH SUBDIVISION'S HOMEOWNERS ASSOCIATION, ALL BEING CONSISTENT WITH THE PLANNING AND ZONING COMMISSION'S LETTER OF RECOMMENDATION ON THIS MATTER DATED MARCH 7, 2016. (Ward Eight)

WHEREAS, the development of the Wildwood Trail Subdivision led to the discovery that a landscape easement area for the adjoining residential subdivision had not been properly located and, in fact, was on the wrong property; and

WHEREAS, this discovery led to the determination a landscape easement area that was required on the northern boundary of the northernmost lot of the Towns at Windrush Subdivision had been placed and developed on the adjoining property, now the planned location of a twenty (20) lot residential subdivision called Wildwood Trail; and

WHEREAS, the developer of this subdivision agreed to preserve this landscape area by creating an easement for it and have the Wildwood Trail Subdivision eventually maintain it under the authority of its Homeowners Association; and

WHEREAS, the residents of the Towns at Windrush Subdivision asked if the rights of maintenance could be transferred to them since they have been maintaining it for a number of years (since its installation by McBride and Son Homes); and

WHEREAS, the developer agreed to this request, but after the site-specific ordinance had already been approved with the maintenance of the landscape area dedicated to the Wildwood Trail Subdivision's Homeowners Association; and

WHEREAS, however, when the Record Plat was submitted, the ordinance approving it assigned the maintenance and upkeep responsibility of this area to the Towns at Windrush Subdivision and it was recorded as such, which then placed it inconsistent with the governing site ordinance; and

WHEREAS, this inconsistency had to be addressed, leading the Planning and Zoning Commission to hold a hearing upon it and complete a recommendation report that transferred the rights of maintenance and upkeep from the Wildwood Trail Subdivision to the Towns at Windrush Subdivision, given the relative circumstances leading to the request itself, i.e. the original placement of the landscape easement area on the wrong property, its maintenance by the Towns at Windrush Subdivision for many years, and the willingness of Pulte Homes of St. Louis to allow for this switch of oversight of this area; and

WHEREAS, with the completion of its review and the accompanying action by the Planning and Zoning Commission, its report was forwarded to the City Council for its consideration at a public hearing on this matter, which was held on March 14, 2016; and

WHEREAS, at the conclusion of the public hearing, the City Council supported this change, and noted its agreement with the rationales in the Planning and Zoning Commission's report, and authorized legislation to be prepared for its further consideration; and

WHEREAS, this action relative to this existing Planned Residential Development Overlay District (PRD) ordinance met the posting and public notifications requirements of the City and has been determined by the City Council to be an appropriate application of its authority in terms of land use decisions that benefit the public's health, safety, and welfare.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AS FOLLOWS:

Section One. The City of Wildwood Zoning Ordinances and Official Zoning District Maps, which are made a part hereof, are hereby, amended to reflect the defined amendment to Planned Residential Development Overlay District (PRD) Ordinance #2042, as set forth below, for the following described land

A tract of land being part of the Southeast 1/4 of the Southeast 1/4 of Section 2, Township 44 North, Range 3 East of the Fifth Principal Meridian located in the City of Wildwood, St. Louis County, Missouri being more particularly described as follows:

Beginning at the intersection of the northern line of the Southeast 1/4 of the Southeast 1/4 of Section 2 with the eastern right-of-way line of Missouri State Route 109, variable width, said point being located 75.00 feet perpendicular distance right of Centerline Station 9+27.04 from which a found Right-of-Way marker bears N81 degrees 39 minutes 31 seconds East, 0.24 feet; thence along said north line South 88 degrees 51 minutes 00 seconds East, 579.02 feet to the east line of above said Section 2; from which a found Bolt, bears South 72 degrees 53 minutes 22 seconds East, 0.18 feet; thence along said east line, South 00 degrees 51 minutes 30 seconds West, 329.92 feet to a found Iron Rod at the northeast corner of Lot 11 of Towns at Windrush, a subdivision according to the plat thereof as recorded in Plat Book 353, Pages 976 and 977 of the St. Louis County records; thence along the north lines of said subdivision and a tract of land as conveyed to the Metro West Protection District by instrument recorded in Book 10644, page 1550 of above said records, North 88 degrees 51 minutes 00 seconds West, 649.62 feet to the eastern right-of-way line of above said Missouri State Route 109, from which a found right-of-way marker bears South 10 degrees 46 minutes 51 seconds East, 2.10 feet; thence along said right-of-way line, North 12 degrees 56 minutes 58 seconds East, 337.04 feet to the Point of Beginning and containing 202,674 square feet or 4.652 acres more or less according to calculations performed by Stock and Associates Consulting Engineers, Inc. on February 11, 2014.

Section Two. The zoning authority and approval embodied in this ordinance is granted subject to compliance with the Subdivision and Development Regulations, Zoning Code, and all other City of Wildwood ordinances, rules, and regulations and the conditions of this ordinance, except as, may be modified herein, upon the requirement the development and approved Site Development Plan are carried out in accordance with the recommendation forwarded to the City Council by the Planning and Zoning Commission within the communication dated March 7, 2016, which is incorporated herein by reference as if fully set forth in this ordinance. The zoning authority granted herein is further subject to the following conditions:

1. PERMITTED USES

a. This Planned Residential Development (P.R.D.) Overlay District shall authorize the maximum development of **twenty (20)**, detached single family dwellings, with common ground, and all permitted accessory structures normally found in conjunction with the primary uses.

2. LOT SIZES, DEPTHS, AND BUILDING REQUIREMENTS

a. Each detached dwelling unit shall be located on an individual lot of record that is a minimum of **4,500 square feet** in size. The minimum width of any lot within this P.R.D. Overlay District shall be **forty-five (45) feet** in distance, except for those properties located within a cul-de-sac, which shall be as approved by the Planning and Zoning Commission on the Site Development Plan. This width shall be measured at the front building line.

b. All detached single family dwellings shall have a minimum finish floor elevation of their front porches of **eighteen (18) inches** in height above the adjoining sidewalk grade. All dwelling units shall have a front porch, which must extend access **at least twenty percent (20%)** of the façade's elevation facing the frontage line, at a minimum depth of no less than six (6) feet. No building facade shall show more than four (4) corners to the frontage line or as approved by the Architectural Review Board on the required elevations.

c. No building and/or structure shall be more than two (2) stories above final grade, as measured from the front building line on any individual lot.

d. Direct residential drive access shall be allowed for up to **twenty (20)** of the single family detached units within this development from its internal street, but the garage door(s) on each unit must be a minimum of **seven point five (7.5)** feet behind an imaginary line formed by an extension of the front elevation of the dwelling (including the front porch) parallel to the lot's frontage. Individual garage doors shall not be greater than **twelve (12) feet** in width, **unless acceptable alternatives are otherwise approved by the Planning and Zoning Commission, as part of its review of the Site Development Plan,** and must be **carriage types**, including windows, and incorporate other architectural treatments, as determined by the City's Architectural Review Board to be appropriate, to lessen their prominence within the visual corridor formed by these interior streets within the development, unless a suitable alternative design is provided for these openings. **The developer shall provide a minimum of two (2) options that incorporate these requirements to the Planning and Zoning Commission for its consideration, as part of the Site Development Plan review and action process, regarding the front of the garages that further reduces their prominence from the abutting street view. Architectural type shingle selections shall be required on all residential units of a minimum thirty (30) year standard.**

e. The first story, interior clear height for all single family dwellings shall be not less than **nine (9) feet**.

f. Detached single family dwelling units, which face the frontage line, but also places the side of the building along another right-of-way, shall be designed to incorporate the elements of the front facade along that portion of the structure. The placement and design of these units shall be approved by the Planning and Zoning Commission on the Site Development Plan and the elevations of these units by the Architectural Review Board.

g. The proposed architectural design, character, and style of all buildings and dwelling units shall adhere to the City of Wildwood's Town Center Architectural Guidelines, Neighborhood Design Standards, and any other applicable requirements of the Town Center Plan, **excepting no vinyl siding shall be allowed on any dwelling unit within the boundaries of this Planned Residential Development Overlay District (PRD). All materials used on any facade of a residential unit shall be fiber cement siding and backer, board, wood, brick, and/or stone**. Approval of the required design shall be by the Architectural Review Board. Minimally, all buildings shall maintain a consistent theme throughout the boundaries of this Planned Residential Development Overlay District in terms of material, color, and style.

3. PLAN SUBMITTAL REQUIREMENTS

Within twelve (12) months of the P.R.D. Overlay District approval by the City Council, and prior to any site disturbance, the developer shall submit to the Planning and Zoning Commission for their review and approval a Site Development Plan. Where due cause is shown by the developer, time intervals may be extended once by the Planning and Zoning Commission in accord with requirements of Section 420.060 of the City of Wildwood Zoning Ordinance. Said Site Development Plan shall include, but not be limited to, the following information:

a. Outboundary plat and legal description of the property.
b. A general numbered lot plan with setback lines from all streets and roadways on and adjacent to the property. A typical lot diagram, indicating all site design information such as, but not limited to, right-of-way width, improvement dimensions and locations, setbacks, and building placement.
c. The location and size of all parking areas, pavement widths, and right-of-way dedications of all internal roadway improvements and drives.
d. A general plan indicating setback lines along the perimeter of the subject tract of land and surrounding property lines and related improvements within four hundred (400) feet of this site's boundaries.
e. Location of all roadways adjacent to the property, including required roadway right-of-way dedication and pavement widening with existing and proposed improvements, and general location, size, right-of-way, and pavement width of all interior drives.
f. The location and size of all freestanding signs, lighting, fences, sidewalks, and other above ground structures, except retaining walls less than two (2) feet in height per section.
g. Existing and proposed contours at vertical intervals of not more than two (2) feet.

h. General location of sanitary sewer facilities.
i. Parking and density calculations.
j. Conceptual location and size of common ground areas.
k. A typical section of the proposed road indicating the placement and design of required streetscape improvements.
l. A Landscape Plan including, but not limited to, the location, size, and general type of plant materials to be used in accord with the City of Wildwood's Ordinance 410 and accompanying Tree Manual.
m. An inventory of the percent of tree canopy or individual trees to be retained on the site.
n. Location of all existing and proposed easements.
o. All other information not mentioned above, but required on a preliminary plat in accord with Section 420.060 of the City of Wildwood Subdivision and Development Regulations.

4. SITE DEVELOPMENT PLAN DESIGN CRITERIA

The above Site Development Plan shall adhere to the following specific design criteria:

Build-To Lines - Residential

a. **Any building or structure, other than boundary and/or retaining walls, fences, detention facilities, and/or light standards, shall adhere to the following build-to lines, as specified in the Town Center Plan's Neighborhood Design Standards:**

i. **Twenty (20)** feet from any right-of-way line.
ii. **Six (6) feet** for any side yard property line and ten (10) feet for side yard areas that abut the perimeter of the Planned Residential Development Overlay District.
iii. **Fifteen (15) feet from any rear yard property line.**

Miscellaneous Setbacks - General

b. A minimum **eleven (11) foot wide buffer strip** shall be provided along the entire eastern boundary line of this Planned Residential Development Overlay District. Within this eleven (11) foot buffer strip, the developer shall be required to install landscaping consistent with the requirements of City of Wildwood's Tree Manual and Sustainable Plantings Guide. The design of this landscaping shall be reviewed and acted upon by the Planning and Zoning Commission, as part of the Landscape Plan/Site Development Plan submittal. A registered Landscape Architect shall sign and seal this plan. Other amenities may be required by the Planning and Zoning Commission as part of this review, i.e. benches and fencing.

Parking Setbacks – Residential

c. All parking stalls or loading spaces, excluding points of ingress or egress for the detached dwelling units, shall be located behind **the edge of the public right-of-way** a minimum of twenty-seven point five (27.5) feet, **excepting cul-de-sac lots. Parking setback requirements for cul-de-sac lots and driveway widths serving required parking spaces, specifically between the edge of the public right-of-way and the front building line, shall be as approved by the Planning and Zoning Commission on the Site Development Plan, but be minimized in their respective distances to the greatest extent possible.**

Access and Roadway Improvements

d. Dedicate the required amount of right-of-way and/or easements along this property's State Route 109 frontage to the Missouri Department of Transportation (MoDOT) for public roadway purposes. Improvements to State Route 109 shall conform to the requirements of the Missouri Department of Transportation (MoDOT) and the City of Wildwood's Street Specifications of the Town Center Plan, as directed and approved by the State of

Missouri and the City of Wildwood's Department of Public Works. All streetscape requirements (street trees, lights, signs, waste receptacles, benches, and other items consisting of approved materials) shall be installed by the developer, as specified by the City of Wildwood's Town Center Plan within the right-of-way of State Route 109 and directed by the Department of Public Works.

e. Establish a minimum fifty (50) foot wide public right-of-way for the construction (extension of Viola Gill Lane) of a twenty-seven (27) foot wide pavement (including concrete vertical curb and gutter) and five (5) foot sidewalks on both sides of this internal roadway, which adhere to the Town Center Plan's Street Specifications and the Streetscape Design Requirements, as directed by the Department of Public Works and approved by the Planning and Zoning Commission on the Site Development Plan. Along with this dedication of fifty (50) feet of right-of-way, the developer shall provide a five (5) foot wide roadway, maintenance, landscaping, sewer, sidewalk, and utility easement along both sides of this public dedication area.

f. Any planned traffic island/cul-de-sac shall be designed and constructed by the developer of this residential subdivision in accordance with City of Wildwood standards, and as directed by the Department of Public Works. The final design of this traffic calming improvement shall be approved by the Planning and Zoning Commission on the Site Development Plan.

Miscellaneous Roadway Requirements

g. Installation of landscaping and ornamental entrance monument or identification signage, if proposed, shall be reviewed by the Department of Public Works for sight distance considerations and approved prior to its installation or construction.

h. If required sight distance cannot be provided at the access location, acquisition of right-of-way, reconstruction of pavement, including correction to vertical alignment and other off-site improvements, may be required to provide the required sight distance as directed by the Department of Public Works.

i. **Construction access shall be from State Route 109 during the development of this site, not Viola Gill Lane.**

j. Sidewalks shall be required on all public and private streets (parking lot aisles) and provide for a continuous and logical layout of this pedestrian network. Design and construction requirements for all sidewalks within the entire development shall be as established in the Street Specifications and Streetscape Elements of the Town Center Plan. Approval of their location, design, and material shall be by the Planning and Zoning Commission, as part of the Site Development Plan review process.

k. The developer is advised that utility companies will require compensation for relocation of their utility facilities within public road right-of-way. Utility relocation cost shall not be considered as an allowable credit against the petitioner's Traffic Generation Assessment contributions. The developer should also be aware of extensive delays in utility company relocation and adjustments. Such delays will not constitute a cause to allow occupancy prior to completion of roadway improvements.

l. All internal streets, access drives, or lanes, whether public or private, shall comply with the Streetscape Requirements of the Town Center Plan in terms of improvements, such as drive lane widths, sidewalks, stormwater drainage facilities, garden walls, street trees and lights, and pedestrian furniture. If certain streets, drives, or lanes are to be private, an easement shall be provided to the City granting public use of them for pedestrian and vehicular purposes. These easements shall be granted at the time of the Record Plat approval by the City Council.

Parking Requirements - Residential

m. Parking spaces shall be provided as required by the Town Center Plan's Neighborhood Design Standards and Section 415.340 Off-Street Parking and Loading Requirements of the City of Wildwood Zoning Ordinance for the R-4 7,500 square foot Residence District.

Landscape Requirements - Specific

n. Landscaping shall adhere to all requirements of Ordinance 410 and its accompanying Tree Manual, including the submittal of a Tree Preservation Plan in conjunction with the Site Development Plan.

o. All streets, roads, and lanes shall be appropriately landscaped as required by the Streetscape Design Requirements of the Town Center Plan and approved by the Planning and Zoning Commission on the Site Development Plan.

p. The areas of existing vegetation within the P.R.D. Overlay District boundaries identified as to be retained shall be marked on the site prior to the commencement of any disturbance in accord with the City of Wildwood's Ordinance 410. These areas shall be indicated on the Site Development Plan submitted to the City of Wildwood for Planning and Zoning Commission review and approval. Existing mature tree canopy shall be preserved in accordance with the requirements of City of Wildwood's Ordinance 410 Tree Preservation and Restoration Code.

q. Landscaping with the defined common ground areas shall comply with Ordinance 410 Tree Preservation and Restoration Code requirements and accompanying Tree Manual. The planting pattern shall be approved by the Planning and Zoning Commission on the Site Development Plan. Amenities, such as benches, lights, and walking paths shall be installed in the open space area of the residential development by the developer of these twenty (20) dwelling units.

r. A Landscape Architect shall sign and submit all plans for review and approval for this mixed-use development.

Signs - Residential

s. Signs for this P.R.D. Overlay District shall be erected in accordance with the Town Center Plan Architectural Guidelines and Section 415.410 Sign Regulations of the City of Wildwood Zoning Ordinance for the R-4 7,500 square foot Residence District.

t. The location of all signage shall be as approved on the Site Development Plan by the Planning and Zoning Commission. Signage not located on common ground must be erected within an easement.

Lighting Requirements

u. The location of all lighting standards shall be as approved on the Site Development Plan. No on-site illumination source shall exceed sixteen (16) feet in height or be so situated that light is cast directly on adjoining properties. Illumination levels for all lighting shall comply with the provisions of the City of Wildwood's Zoning Code, Section 415.450 "Outdoor Lighting Requirements." A Lighting Study shall be submitted in conjunction with the Site Development Plan indicating compliance to these requirements. The Planning and Zoning Commission shall approve the location, design, and appearance of all light standards and fixtures as part of the Site Development Plan review process.

Miscellaneous Conditions

v. The design, color, material, and location of all garden and screen walls or fences, if planned or required, shall be consistent with the requirements of the Town Center Plan's Architectural Guidelines and be shown on the Site Development Plan for review and action by the Planning and Zoning Commission and the Architectural Review Board.

w. Improvements associated with public infrastructure, such as roadways, sidewalks, and access points, shall comply with general design principles that will provide for safe and efficient movement of traffic in and around these sites and improve overall circulation in the area. These improvements shall be reviewed and approved by the Department of Public Works.

x. Hours of construction and grading activity shall be limited to 7:00 a.m. to 6:00 p.m. Monday through Friday, and 8:00 a.m. to 6:00 p.m. on Saturday. No development (grading and construction) activity shall be authorized on Sundays.

y. All retaining walls exceeding three (3) feet in height per section or crossing individual property lines shall be constructed of an appropriate inter-locking concrete block system. Walls crossing property lines shall be located in a maintenance easement. The design, color, material, and location of all walls shall be consistent with the requirements of the Town Center Plan's Architectural Guidelines and be shown on the Site Development Plan for review and action by the Planning and Zoning Commission.

z. The location of all utility easements for proposed service to this development shall be as approved by the Planning and Zoning Commission on the Site Development Plan. All utilities installed to serve this site shall be placed underground, including any existing overhead lines located on the subject property.

aa. An eleven (11) foot wide landscape easement shall be established adjoining Lot 11 of the Towns at Windrush on the proposed lot in the Wildwood Trail Subdivision to preserve existing landscaping that is located there and this easement shall be granted to the Homeowners Association of the ~~Wildwood Trail Subdivision~~ Towns at Windrush Subdivision for on-going maintenance, care, upkeep, and the replacement of plantings that may die. Removal of this landscaping from this defined easement will require City approval.

5. TRAFFIC GENERATION ASSESSMENT FEE

The developer shall contribute to the East Area Traffic Generation Assessment Trust Fund established by Section 140.210 of the City of Wildwood's Revised Codes. This assessment must be paid in full at the time of the first Zoning Authorization for any building or structure or when the individual issuances of building permits for the authorized lots are approved. This contribution shall not exceed the amount established by multiplying the number of parking spaces provided by the following rate:

Type of Development	***Required Contribution***
Single Family Dwelling **(detached)**	$1,055.10 /Parking Space

(Parking space is defined by Section 415.280 of the City of Wildwood Zoning Code.)

If type of development proposed differ than those listed, rates shall be provided by the Department of Public Works.

As this development is located within a Trust Fund area established by the City of Wildwood, any portion of the traffic generation assessment contribution, which remains, following completion of roadway improvements required by the development shall be retained in the appropriate trust fund.

The amount of this required contribution, if not submitted by January 1, 2015, shall be adjusted on that date and on the first day of January in each succeeding year thereafter in accord with the construction cost index as determined by the City of Wildwood Department of Public Works.

6. VERIFICATIONS PRIOR TO APPROVAL OF THE SITE DEVELOPMENT PLAN

Prior to approval of the Site Development Plan, the developer shall provide the following:

Stormwater Improvements

a. Submit to the Planning and Zoning Commission an engineering plan approved by the City of Wildwood Department of Public Works and the Metropolitan St. Louis Sewer District showing that adequate handling of the stormwater drainage of the site is provided.

   i. The developer is required to provide adequate stormwater systems in accordance with the City of Wildwood and the Metropolitan St. Louis Sewer District standards.
   ii. All stormwater shall be discharged at an adequate natural discharge point.
   iii. Retention/detention of differential runoff of stormwater shall be required. Stormwater management shall be provided in permanent retention/detention facilities, such as ponds or other acceptable alternatives. These retention/detention facilities shall be completed and in operation prior to the issuance of building permits for an approved dwelling unit, except display lots.
   IV. All proposed retention/detention facilities and related stormwater improvements shall be located in a common ground area and insure perpetual maintenance to the Homeowners Association to be created at the time of platting of this development.
   V. The developer of this site shall be solely responsible to provide the necessary mechanisms, as part of the Site Development Plan/Improvement Plan process, to implement "best management practices" for stormwater management and the construction of related facilities. Minimally, these practices/facilities should include rain gardens, vegetative swales, and other options to substantially reduce the amount of stormwater leaving the subject site.
   Vi. The developer shall provide adequate detention and/or hydrologic calculations for review and approval of all stormwater that will encroach on City of Wildwood/Missouri Department of Transportation (MoDOT) rights-of-way.
   VII. A bond or letter of credit will be required by the City of Wildwood to cover any downstream damage to abutting or adjacent properties, common ground areas, or drainageways caused by the developers' use of this subject site (land/disturbance/grading/construction activities, etc.), which shall be used for the restoration of damaged areas to their pre-development condition, if the developers fail to meet their responsibilities in this regard. The amount of this bond and the establishment of the process for creating an accurate baseline condition for the existing downstream facilities shall be at the discretion of the City of Wildwood Department of Public Works, in conjunction with input from the petitioner's engineer.

Geotechnical Report

b. Provide a Geotechnical Report covering development and grading required by improvements involved with this site, as directed by the Department of Public Works. Said report shall verify the adaptability of grading and improvements with soil and geologic conditions which are susceptible to rapid erosion, landslide, and/or creep. A statement of compliance with this study, signed by the Geotechnical Engineer preparing the report, shall be included on all Site Development Plans. The development and construction plans shall be designed to conform to the requirements and conditions of the Geotechnical Report. The Geotechnical Engineer shall be required to sign and seal all plans with a certification the proposed construction will be completed in accordance with the grading and soils requirements and conditions contained in the report.

7. RECORDING

Within ninety (90) days of approval of the Site Development Plan by the Planning and Zoning Commission, the approved plan shall be recorded with the St. Louis County Recorder of Deeds.

8. VERIFICATION PRIOR TO PERMITS

Notification to Department of Planning

a. Subsequent to approval of the Site Development Plan and prior to issuance of any grading, foundation, or building permit, all approvals from the Department of Public Works, the Missouri Department of Natural Resources, and the Metropolitan St. Louis Sewer District must be received by the Department of Planning.

b. Prior to the issuance of a foundation or building permit for any lot, which adjoins the common ground area and/or detention, basin, written certification from a Professional Engineer which verifies these areas are graded in accordance with the approved plans, must be received by the Department of Planning.

Roadway Improvements

c. Improvements to State Route 109 must be completed prior to the issuance of building permits in excess of fifty (50) percent of the units. **These required improvements may be credited against the overall Traffic Generation Assessment Fee (TGA) charge associated with these twenty (20) ~~seventeen (17)~~ allowable residential units, if authorized by the City Council**. Any delays in utility company relocation and adjustments will not constitute a cause to allow occupancy prior to completion of roadway improvements.

Land Subdivision

d. Record a proper subdivision of the property and comply with all other applicable Subdivision and Development Regulations sections affecting the development of land, except as otherwise specified by this ordinance.

Indentures

e. With the filing of the record plat establishing separate lots, the developer shall record an approved indenture, which defines the necessary assessments and specific trustee obligations in accord with provisions of Section 415.470 and 415.510 of the City of Wildwood Zoning Code.

Escrow Requirements

f. All improvement and landscaping costs shall be submitted to the City of Wildwood through the standard subdivision escrow procedures.

Improvement Plans

g. The developer of this residential subdivision shall provide to the City Improvement Plans indicating construction details relative to public and private infrastructure associated with its development. Said plans will be used to calculate escrow requirements for these identified improvements.

Sanitary Sewage System

h. The developer shall provide verification from the Metropolitan St. Louis Sewer District that public sewer service has been provided to this site. Verification shall be in a form acceptable to the City of Wildwood.

9. GENERAL DEVELOPMENT CONDITIONS

a. Provide adequate temporary off-street parking for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driving conditions.

b. A grading permit is required prior to any grading on the site. Interim stormwater drainage control in the form of salutation control measures is required.

c. A copy of the most recently approved Site Development Plan for this P.R.D. Overlay District development shall be prominently displayed at all times in all sales offices for this development.

d. The petitioner shall be responsible for obtaining all necessary permits from the Department of Natural Resources Clean Water Commission as they relate to the development of this tract of land.

e. If cut and fill operations occur during a season not favorable for immediate establishment of a permanent ground cover, a fast germinating annual, such as Rye or Sudan Grasses, shall be utilized to retard erosion.

f. Failure to comply with any or all of the conditions of this ordinance shall be adequate cause for revocation of permits by issuing City of Wildwood Departments or Commissions.

g. The Zoning Enforcement Officer of the City of Wildwood, Missouri, shall enforce the conditions of this ordinance in accord with Site Development Plans approved by the Planning and Zoning Commission and the Department of Planning.

h. Any other applicable zoning, subdivision, or other regulations or requirements of the City, whether in effect at the adoption of this ordinance or as may be hereinafter adopted, shall further apply to the development of this property as authorized by this Planned Residential Development Overlay District Ordinance, except as may be provided by law. Nothing herein shall be deemed a waiver of any subdivision, zoning or other development regulation of the City whether by implication or reference.

i. This zoning approval is conditioned on compliance with the Zoning Code, Subdivision Code, and all applicable laws of the City. Such additional regulations are supplemental to the requirements herein and no modification of any applicable regulations shall result from this Planned Residential Development Overlay District ordinance, except where this ordinance has expressly modified such regulations by reference to the applicable provision authorizing such modification.

10. PUBLIC SPACE REQUIREMENTS

a. Developer shall construct improved public space in conformance with or otherwise satisfying the requirements of the City's Public Space Ordinance, Chapter 415.260 and 415.270 of the City of Wildwood's Zoning Ordinance. The City Council accepts the findings of the Public Space Study adopted therein and determines the compliance with the Public Space Ordinance provisions will address the impact of this specific development on public space needs in a manner and amount that is equal to less than an amount that is roughly proportional to the actual or anticipated impact. The installation of required public space improvements shall be as required by the applicable ordinances, but shall be completed prior to issuance of any occupancy (temporary or final) permit for the authorized by this ordinance. Unless otherwise approved pursuant to the procedures set forth in the Public Space Ordinance, the public space attributable to this development, **based upon the number of authorized dwelling units at a rate of 1,742.4 square feet per new single family dwelling**.

Section Three. This ordinance shall be in full force and effect on and after its passage and approval.

This Bill was passed and approved this ____ day of _____, 2016, by the Council of the City of Wildwood, Missouri after having been read by title, or in full, two (2) times prior to its passage.

_____	_____
Presiding Officer	The Honorable Timothy Woerther, Mayor
ATTEST:	
_____	_____
Deputy City Clerk	Laura Rechtin, Deputy City Clerk

WILDWOOD TRAIL

A TRACT OF LAND LOCATED IN THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER
OF SECTION 2, TOWNSHIP 44 NORTH, RANGE 3 EAST OF THE 5TH PRINCIPAL MERIDIAN
CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI

'R-4' 7,500 SQ. FT. RESIDENCE DISTRICT WITH A PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT (PRD)
"NEIGHBORHOOD EDGE" DISTRICT OF THE TOWN CENTER PLAN PER ORD.# 2042

LEGEND

BENCH MARK · FOUND IRON ROD · FOUND IRON PIPE · RIGHT OF WAY MARKER · UTILITY POLE / SUPPORT POLE · UTILITY POLE WITH LIGHT · LIGHT STANDARD · ELECTRIC METER · ELECTRIC MANHOLE · ELECTRIC PEDESTAL · ELECTRIC SPLICE BOX · GAS DRIP · GAS METER · GAS VALVE · TELEPHONE MANHOLE · TELEPHONE PEDESTAL · TELEPHONE SPLICE BOX · CABLE TV PEDESTAL

FIRE HYDRANT · FIRE DEPARTMENT CONNECTION · WATER MANHOLE · WATER METER · WATER VALVE · POST INDICATOR VALVE · CLEAN OUT · STORM MANHOLE · GRATED MANHOLE · STORMWATER INLET · GRATED STORMWATER INLET · SANITARY MANHOLE · TREE · BUSH · TRAFFIC SIGNAL · PARKING METER · STREET SIGN · SPRINKLER · MAIL BOX

ST. LOUIS COUNTY BENCHMARK

BENCHMARK # 16-110 Elev.=786.30
"L" on the southwest corner of the porch to # 2400 Estherton Road; 75' east of the centerline of Estherton Road and 0.5 mile north of Manchester Road.

SITE BENCHMARK

BENCHMARK Elev.=721.87
Railroad Spike in south face of power pole at the northwest corner of site as shown hereon.

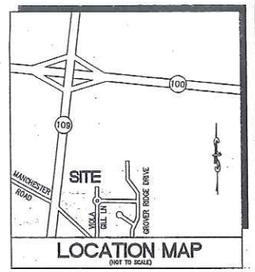
GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

2015112500556
PLAT: BK: 363, PG: 549-550
FILED FOR RECORD
Nov 25, 2015 1:03 PM
RECORDER OF DEEDS
ST. LOUIS COUNTY,MO.
Witness my hand and official seal on the day and year aforesaid.
Deputy Recorder: DB2

556

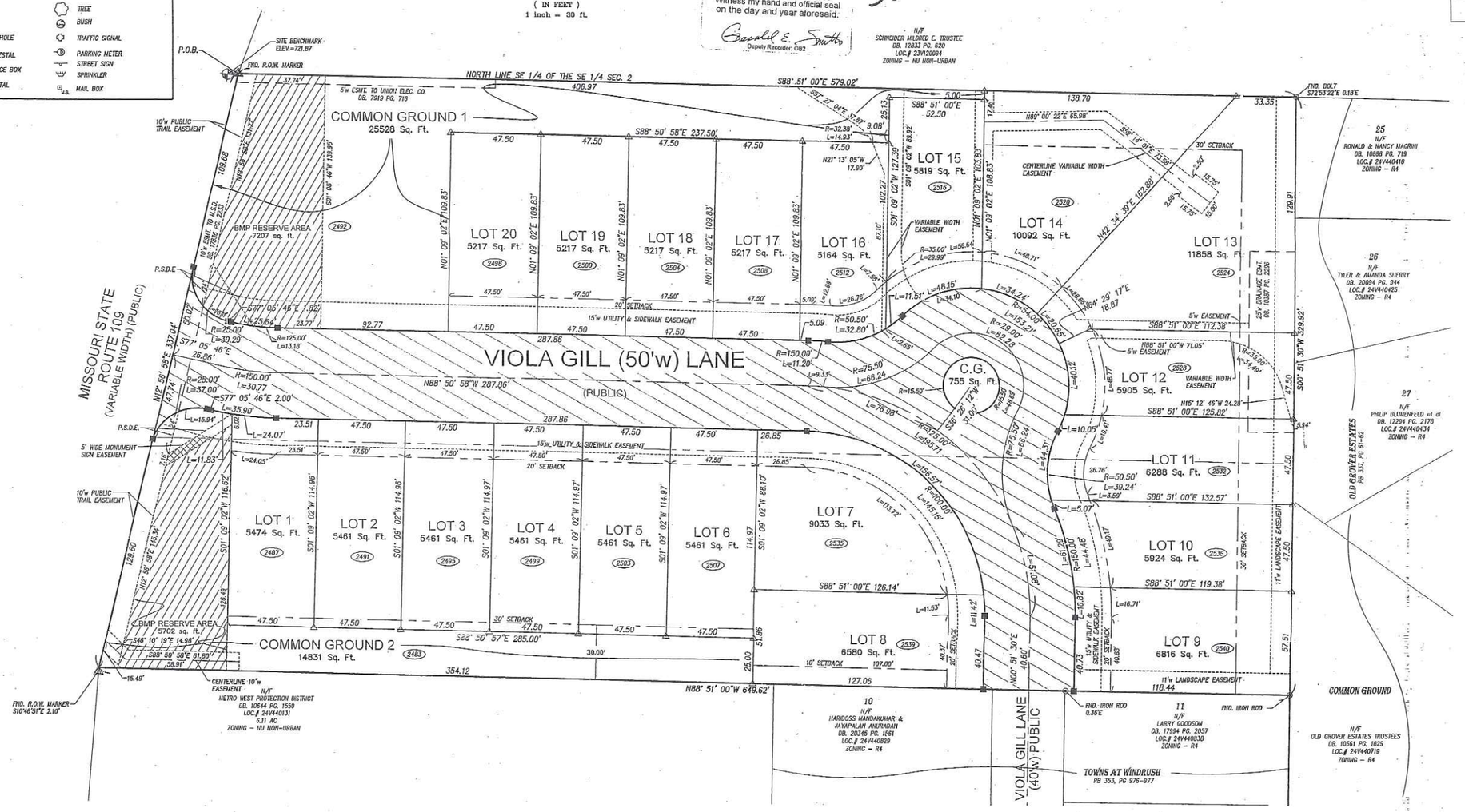
ABBREVIATIONS

C.O. – CLEANOUT · DB. – DEED BOOK · E – ELECTRIC · FL – FLOWLINE · FT – FEET · FND. – FOUND · G – GAS · M.H. – MANHOLE · N/F – NOW OR FORMERLY · PB. – PLAT BOOK · PG. – PAGE · P.O.B. – POINT OF BEGINNING · P.O.C. – POINT OF COMMENCEMENT · P.V.C. – POLYVINYL CHLORIDE PIPE · R.C.P. – REINFORCED CONCRETE PIPE · SQ. – SQUARE · T – TELEPHONE CABLE · V.C.P. – VETRIFIED CLAY PIPE · W – WATER · (66'w) – RIGHT-OF-WAY WIDTH · M.B. – MAIL BOX



LOCATION MAP
(NOT TO SCALE)

549



PREPARED FOR:
PULTE HOMES OF ST. LOUIS, LLC
17107 Chesterfield Airport Rd, Suite 120
Chesterfield, MO 63005
Phone: (636) 537-7128
Fax: (636) 537-9952

APPROVED Sheet 1 of 2
CITY OF WILDWOOD
DEPARTMENT OF PLANNING
SIGNED: for Vaughn
DATE: 11-24-15

PREPARED BY:
STOCK & ASSOCIATES
Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005 PH. (636)
530-9100 FAX (636) 530-9130
e-mail: general@stockassoc.com
Web: www.stockassoc.com

RECORD PLAT
WILDWOOD TRAIL

DANIEL EHLMANN P.L.S.
MO. P.L.S. # 2215
CERTIFICATE OF AUTHORITY
LC-223-D
10/22/15

REVISIONS:
1 10/22/15 REVISED PER CITY COMMENTS

CITY OF WILDWOOD
NOV 20 2015
DEPT. OF PLANNING & PARKS

DRAWN BY: J.K.	CHECKED BY: D.M.E.
DATE: 1/27/15	JOB NO: 214-5221
M.S.D. P #: P-0030298-00	BASE MAP #: 24-V
S.L.C. H&T #: XXXX	H&T S.U.P. #: XX-XXX-XX
M.O.D.N.R. #: MO-XXXXXXX	

SHEET TITLE:
RECORD PLAT

SHEET NO.:
SHEET 1 of 2

WILDWOOD TRAIL

A TRACT OF LAND LOCATED IN THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 2, TOWNSHIP 44 NORTH, RANGE 3 EAST OF THE 5TH PRINCIPAL MERIDIAN CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI

'R-4' 7,500 SQ. FT. RESIDENCE DISTRICT WITH A PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT (PRD) "NEIGHBORHOOD EDGE" DISTRICT OF THE TOWN CENTER PLAN PER ORD.# 2042

OWNER CERTIFICATE

We, the undersigned, owners of the tract of land herein platted and further described in the foregoing surveyors' certificate have caused the same to be surveyed and sub-divided in the manner shown on this plat, which subdivision shall hereafter be known as:

WILDWOOD TRAIL

Viola Gill Ave. (50' wide) as shown hatched [ ] hereon along with its roundings and cul de sac, as shown on this plat is hereby dedicated to the City of Wildwood for public use forever.

All easements shown on this plat, unless designated for other specific purposes, are hereby dedicated to the City of Wildwood, Missouri, Metropolitan St. Louis Sewer District, Missouri-American Water Company, Laclede Gas Company, Ameren Union Electric Company, and the relevant telephone and cable television companies, their successors and assigns as their interests may appear for the purpose of constructing, replacing, maintaining, and repairing of public utilities and facilities, sewer or sewers, stormwater improvements and drainage facilities, with the right of temporary use of adjacent ground not occupied by improvements for the excavation and storage of materials during installation, repair, or replacement of said utilities, sewer or sewers, stormwater improvements, and drainage facilities.

BMP Reserve areas as shown [ ] on this plat is are for the stormwater management features, also known as BMPs (Best Management Practice). The BMP Reserved areas hereby established are irrevocable and shall continue forever, subject to a "Maintenance Agreement" dated 24th day of March 2015 , as recorded in the Recorder of Deed's Book 21435, Page 848, or as amended thereafter. Construction, maintenance, repair, and upkeep of stormwater facilities within these BMP Reserve areas shall be per the responsible party, or its successors or assigns, as defined in the aforementioned agreement.

The areas shown as Common Ground on this plat have been conveyed to the Homeowners Association of this Subdivision by General Warranty Deed recorded in Book _____, Page _____of the St. Louis County Recorder's Office.

The Public Trail Easement, 10 feet wide, as shown on this plat is hereby given, granted extended and conveyed to the City of Wildwood for the exclusive right to build and maintain a walking trail on the strip or strips of ground which have been identified as Trail Easement on this plat, and to use such additional space adjacent to the Public Pedestrian easement so granted as may be required for working room during the construction, reconstruction, maintenance, or repair of the aforementioned trail. Ingress/Egress is hereby granted to all current and future lot owners, over which parts of the Public Trail Easement is located within common ground and detention area.

The 11-foot wide Landscape Easement along the Eastern lines of Lots 9, 10, 11, 12 and 13 is hereby dedicated to the Wildwood Trails Homeowners Association for the purpose of maintaining a Landscape Buffer with the right of ingress/egress to the easement along the variable access easement between Lots 12 and 13. The association may use the easement for maintaining, planting and replanting landscaping in accordance with the City of Wildwood's Tree Manual and Sustainable Planting Guide.

The 11-foot wide Landscape Easement along the Southern line of Lot 9 is hereby dedicated to the Towns at Windrush Homeowners Association for the purpose of maintaining a Landscape Buffer with the right of ingress/egress to the easement. The association may use the easement for maintaining, planting and replanting landscaping in accordance with the City of Wildwood's Tree Manual and Sustainable Planting Guide.

The Permanent Sight Distance Easement (P.S.D.E.) as shown on this plat is hereby dedicated to the City of Wildwood, Missouri to ensure and protect the clear and unobstructed view of motorists on and entering the adjacent roadway. No part of said easement shall be built on in a manner whatsoever, nor shall the grade of the land within the easement be changed, nor shall any structure (including sign, fence or pole) be built, or planting (including trees, shrubs, grasses or weeds) within said easement unless directly approved by the City of Wildwood.

The Monument Sign Easement as shown hatched [ ] hereon is hereby dedicated to the Wildwood Trails Homeowners Association for the purpose of constructing and maintaining a monument sign along with plantings and other landscaping.

Building lines as shown on this plat are hereby established.

It is hereby certified that all existing easements are shown on this plat as of the time and date of recording of this plat.

Two permanent monuments for each block created (indicated as ■) (Total of 18) and semi permanent monuments at all lot corners (indicated as Δ) (Total of 43) will be set, with the exception that the front lot corners may be monumented by notches or crosses cut in concrete paving on the prolongation of the lot line, within twelve (12) months after the recording of this subdivision plat, in accordance with 10 CSR 30-2.090 of the Missouri Department of Natural Resources and 4 CSR 30-16.090 of the Missouri Department of Economic Development. In addition, other survey monuments indicated on this subdivision plat, required by the Subdivision Ordinance of the City of Wildwood, Missouri 1005.250 will be set.

The undersigned further states that said tract is not encumbered by delinquent taxes or liens.

This subdivision is subject to the Indenture of Covenants, Conditions and Restrictions for Wildwood Trail by instrument recorded in Book _____, Page _____ on _____, ____.

IN WITNESS THEREOF, I have hereunto set my hand this 2nd day of November, 2015

Pulte Homes of St Louis, L.L.C.
a Nevada limited liability company

By: Andrew M Bodary

ANDREW M BODARY
PRINT NAME

VP FINANCE
PRINT TITLE

STATE OF Missouri)
) SS.
COUNTY OF St. Louis)

On this 2nd day of November, 2015, before me appeared Andrew M. Bodary to me personally known, who, being by me duly sworn, did say that he/she is the VP Finance of Pulte Homes of St. Louis, LLC, a Nevada limited liability company, and that said instrument was signed and sealed in behalf of said limited liability company, and said Andrew M. Bodary acknowledged said instrument to be the free act and deed of said limited liability company.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid, the day and year first above written.

Koleen Jameson
Notary Public

My commission expires: 4-19-2017 Koleen Jameson

KOLEEN JAMESON
Notary Public - Notary Seal
State of Missouri
St. Louis County
My Commission Expires: April 19, 2017
Commission #13520393

PREPARED FOR:
PULTE HOMES OF ST. LOUIS, LLC
17107 Chesterfield Airport Rd, Suite 120
Chesterfield, MO 63005
Phone: (636) 537-7128
Fax: (636) 537-9952

Property Description

A tract of land being part of the Southeast 1/4 of the Southeast 1/4 of Section 2, Township 44 North, Range 3 East of the Fifth Principal Meridian located in the City of Wildwood, St. Louis County, Missouri being more particularly described as follows:
Beginning at the intersection of the northern line of the Southeast 1/4 of the Southeast 1/4 of Section 2 with the eastern right-of-way line of Missouri State Route 109, variable width, said point being located 75.00 feet perpendicular distance right of Centerline Station 9+27.04 from which a found Right-of-Way marker bears N81 degrees 39 minutes 31 seconds East, 0.24 feet; thence along said north line South 88 degrees 51 minutes 00 seconds East, 579.02 feet to the east line of above said Section 2; from which a found Bolt, bears South 72 degrees 53 minutes 22 seconds East, 0.18 feet; thence along said east line, South 00 degrees 51 minutes 30 seconds West, 329.92 feet to a found Iron Rod at the northeast corner of Lot 11 of Towns at Windrush, a subdivision according to the plat thereof as recorded in Plat Book 353, Pages 976 and 977 of the St. Louis County records; thence along the north lines of said subdivision and a tract of land as conveyed to the Metro West Protection District by instrument recorded in Book 10544, page 1550 of above said records, North 88 degrees 51 minutes 00 seconds West, 649.62 feet to the eastern right-of-way line of above said Missouri State Route 109, from which a found right-of-way marker bears South 10 degrees 46 minutes 51 seconds East, 2.10 feet; thence along said right-of-way line, North 12 degrees 56 minutes 58 seconds East, 337.04 feet to the Point of Beginning and containing 202,674 square feet or 4.652 acres more or less according to calculations performed by Stock and Associates Consulting Engineers, Inc. on February 11, 2014.

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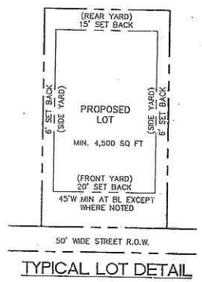

TYPICAL LOT DETAIL

SERVICE PROVIDERS

a. School ..... Rockwood
b. Fire ..... Metro West
c. Sewer ..... Metropolitan St. Louis Sewer District
d. Water ..... Missouri-American Water Company
e. Gas ..... Laclede Gas
f. Phone ..... AT&T
g. Electric ..... Ameren U.E.
h. Cable ..... Charter Communications
i. Watershed .. Bonhomme Creek
j. Zip Code .... 63040 Grover
k. Police ..... St. Louis County - Wildwood Precinct 6
l. City Council .. Ward 8

Sheet 2of2
CITY OF WILDWOOD
DEPARTMENT OF PLANNING
SIGNED: Joe Vujnovich
DATE: 11-24-15

GENERAL NOTES:
1.) Subject property lies within Flood Zone X (areas determined to be outside the 500-year flood according to the National Flood Insurance Rate Map Number 29189C0260 K with an Effective Date of February 4, 2015.

2.)BENCHMARK # 16-110 Elev.=786.30
"L" on the southwest corner of the porch to # 2400 Eatherton Road; 75' east of the centerline of Eatherton Road and 0.5 mile north of Manchester Road.

3) Source of record title is the deed recorded in Deed Book 16541, Page 1743 of the St. Louis County, Missouri Recorder's Office.

4) The basis of bearings for the plat is the deed recorded in Deed Book 16541, Page 1743 of the St. Louis County, Missouri Recorder's Office.

5) Total Area:
Parcel 1: 2516 Highway 109, Loc. No. 24V440122 - 121,426 Square Feet or 2.788 Acres
Parcel 2: 2520 Highway 109, Loc. No. 24V440104 - 81,248 Square Feet or 1.865 Acres
Total Area 202,674 Square Feet or 4.652 Acres
Total Lots 20 Individual detached units

6) The minimum lot size for this subdivision is 4,500 square feet per the Ord.# 2042. A minimum of 5,164 square feet provided by this plat.

7) The total Common Ground area on this plat is 41,114 square feet or 0.943 acres.

9) Public Space Requirements, per Site Development Plan are recorded in Plat Book 363, Pages 118 - 127.

10) Maintenance Agreement as recorded in Deed Book 21435, Page 848 was established for parcels of land being Loc. Numbers 24V440122 and 24V44104 which are the parent parcels of the property being subdivided on this plat.

Title Notes:
(1) Stock and Associates Consulting Engineers, Inc. used exclusively First American Title Insurance Company, Commitment No. MO-048946, with an effective date of September 17, 2013 at 12:00 a.m. for research of easements and encumbrances. No further research was performed by Stock and Associates Consulting Engineers, Inc.

(2) Title to the estate or interest in the land described or referred to in the above commitment and covered herein is fee simple, and title thereto is a the effective date thereof vested in:

Columbia Sports, L.L.C.

(3) Title Commitment No. MO-048946 with Schedule B-Section 2 exceptions:

(a) Item No. 8. Limited relinquishment to direct access to Highway 109 according to instrument recorded in Book 6596, Page 653 of the St. Louis County Records. "SHOWN" Affects Parcel 1

(b) Item No. 9. Restrictions, conditions and easements, (deleting any restrictions indicating any preference, limitation, or discrimination based on race, color, religion, sex, handicap, familial status or national origin) contained in instrument(s) recorded in: Book 174, Page 82. Affects Parcel 2 "NOT SHOWN" Not a survey related item.

(c) Item No. 10. Easement granted Union Electric Company according to the instrument recorded in Book 6363, Page 168. "NOT SHOWN" Does not affect subject property.

(d) Item No. 11. Easement granted Union Electric Company according to the instrument recorded in Book 7919, Page 716. "SHOWN" Affects Parcel 2

(e) Item No. 12. Relinquishment of a limited access to State Highway Route 109 as condemned by Condemnation Suit #338339 of the Circuit Court of St. Louis County, Missouri a certified copy of which the Report of Commissioners is recorded in Book 6646, Page 477. "NOT SHOWN" No longer in effect.

(f) Item No. 13. Easement granted The Metropolitan St. Louis Sewer District according to the instrument recorded in Book 10387, Page 2296. "SHOWN"

(g) Item No. 14. Easement granted to The Metropolitan St. Louis Sewer District in Book 17836, Page 2233. "SHOWN"

SURVEYOR'S CERTIFICATION

This is to certify that Stock and Associates Consulting Engineers, Inc. have, during December, 2014, by order of and for the use of Pulte Homes of St. Louis, L.L.C., executed a Property Boundary Survey and Record Plat of a tract of land being part of the Southeast 1/4 of Section 2, Township 44 North, Range 3 East of the Fifth Principal Meridian, City of Wildwood, St. Louis County, Missouri and that the results of said survey and Record Plat are shown hereon. We further certify that the above plat was prepared from an actual survey, according to the records available and recorded, and said survey meets or exceeds the current minimum standards for Property Boundary Surveys for "Class Urban Property" as defined in Chapter 16, Division 2030 Missouri Minimum Standards for Property Boundary Surveys as adopted by the Missouri Board for Architects, Professional Engineers, Professional Land Surveyors, and Landscape Architects.

STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC.
LC NO. 222-D

By: Daniel Ehlmann 10/22/15
Daniel Ehlmann, Missouri P.L.S. No. 2215

This acknowledgment certifies this Subdivision Plat of "WILDWOOD TRAIL" has been approved by the CITY OF WILDWOOD, MISSOURI on this 25th day of NOVEMBER 2015.

CITY OF WILDWOOD DEPARTMENT OF PLANNING

Joe Vujnovich
Joe Vujnovich, Director of Planning.

I, Ryan Thomas P.E., City Administrator of the City of Wildwood, St. Louis County, Missouri do hereby certify this Subdivision Plat was approved by Ordinance Number 2128 under action taken by the City Council of Wildwood, Missouri on the 12th day of October, 2015. Said ordinance of the same appears on record in my office as testimony whereof, I hereunto now set my hand and affix the official seal of the City of Wildwood, St. Louis County, Missouri, on this 25th day of NOVEMBER 2015.

Ryan Thomas P.E., City Administrator

PREPARED BY:
STOCK & ASSOCIATES Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005 PH. (636) 530-9100 FAX (636) 530-9130
e-mail: general@stockassoc.com
Web: www.stockassoc.com

RECORD PLAT

WILDWOOD TRAIL

DANIEL EHLMANN P.L.S.
MO. P.L.S. # 2215
CERTIFICATE OF AUTHORITY
LC-222-D

REVISIONS:

1	10/22/15 REVISED PER CITY COMMENTS

DRAWN BY: J.K.	CHECKED BY: D.M.E.
DATE: 1/27/15	JOB NO: 214-5221
M.S.D. P. #: P-0030286-00	BASE MAP #: 24-V
S.L.C. HIST. #: XXXX	H&T SURV. #: XX-XXX-XX
M.O.N.R. #: MO-XXXXXXX	

SHEET TITLE: RECORD PLAT

SHEET NO.: SHEET 2 of 2

BILL #2167 **ORDINANCE #2167**

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AUTHORIZING THE CITY ADMINISTRATOR OF THE CITY OF WILDWOOD, MISSOURI TO EXECUTE ANY AND ALL AGREEMENTS WHICH ARE NECESSARY FOR THE MIGRATION OF THE EMPLOYEE RETIREMENT PLAN TO AMERICAN UNITED LIFE INSURANCE COMPANY, INCLUDING ASSOCIATED ADVISORY AGREEMENTS WITH R. T. JONES CAPITAL EQUITIES MANAGEMENT, INC., MESIROW FINANCIAL INVESTMENT MANAGEMENT, INC., AND CUTTER & COMPANY.

WHEREAS, the City of Wildwood currently sponsors an employee retirement plan through ICMA Retirement Corporation, which has been the sole provider of this service since 1996; and

WHEREAS, the costs associated with maintaining the employee retirement plan, including its administration, advisory services and fund expenses, are paid by the employees; and

WHEREAS, the Administration/Public Works Committee of the City Council has evaluated additional retirement plan providers, to ensure the desired services and fund offerings are made available to its employees at a reasonable cost; and

WHEREAS, the Administration/Public Works Committee has recommended migrating the employee retirement plan to American United Life Insurance Company, with associated advisory services provided by R. T. Jones Capital Equities Management, Inc., Mesirow Financial Investment Management, Inc., and Cutter & Company.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AS FOLLOWS:

Section One.
The City Administrator of the City of Wildwood is hereby authorized to execute any and all agreements and documents which are necessary for the migration of the employee retirement plan to American United Life Insurance Company, including associated advisory agreements with R. T. Jones Capital Equities Management, Inc., Mesirow Financial Investment Management, Inc., and Cutter & Company.

Section Two.
This Ordinance shall be in full force and effect both from and after its passage and approval by the Mayor.

This Bill was passed and approved this ____ day of _____, 2016, by the Council of the City of Wildwood, Missouri, after having been read by title or in full two times prior to passage.

_____	_____
Presiding Officer	Timothy Woerther, Mayor
ATTEST:	ATTEST:
_____	_____
City Clerk	City Clerk

BILL #2168 **ORDINANCE #2168**

AN ORDINANCE AMENDING TWO SECTIONS OF CHAPTER 110 OF THE CITY OF WILDWOOD, MISSOURI MUNICIPAL CODE.

WHEREAS, two sections of Chapter 110 of the City of Wildwood, Missouri Municipal Code currently contain different language than the Charter; and,

WHEREAS, the Council of the City of Wildwood, Missouri, desires to amend said sections of the Municipal Code to provide for consistency with the Charter.

NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AS FOLLOWS:

Section One. Chapter 110 of the Code of Ordinances entitled "Mayor and City Council" is hereby amended by deleting Section 110.170 (Quorum) in its entirety and enacting in its place a new Section 110.170 to read as follows:

110.170. Quorum.

A quorum shall constitute one (1) more than half (½) of the total number of members of the City Council. If a quorum fails to attend any meeting, it shall stand adjourned until the next regular or special meeting. Except as provided in the Charter or other law, the Council may act by an affirmative vote of not less than a majority of members present.

Section Two. Chapter 110 of the Code of Ordinances entitled "Mayor and City Council" is hereby amended by deleting Section 110.190 (Enactment of Ordinances) in its entirety and enacting in its place a new Section 110.190 to read as follows:

110.190. Enactment of Ordinances.

The style of the ordinances of the City of Wildwood shall be as follows: "Be it ordained by the Council of the City of Wildwood, Missouri, as follows:" No ordinance shall be passed except by bill, and except as otherwise provided in the Charter or other law, no bill shall become an ordinance unless, on its final passage, a majority of the members of the City Council shall vote in the affirmative, and the "ayes" and the "nays" shall be entered on the journal. Every proposed ordinance shall be introduced to the Council in writing and shall be read by title two (2) times prior to passage, both readings may occur at a single meeting of the Council. Copies of the proposed ordinance shall be made available to each Council Member and for public inspection as provided for in the Charter. No bill shall become an ordinance until it shall have been signed by the officer presiding at the meeting of the Council in which it shall have been passed. When so signed, it shall be delivered to the Mayor for approval and signature, or veto. An ordinance not signed or vetoed by the Mayor shall become effective at the next regularly scheduled meeting of the Council.

Section Three. This Ordinance shall be in full force and effect after its passage and approval.

This Bill was passed and approved this ____ day of _____, 2016 by the City Council of the City of Wildwood, Missouri after having been read by title two (2) times prior to its passage.

_____	_____
Presiding Officer	TIMOTHY WOERTHER, MAYOR
ATTEST:	ATTEST:
_____	_____
City Clerk	City Clerk

BILL #2169 **ORDINANCE #2169**

AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF THE CITY OF WILDWOOD, TITLE II. PUBLIC HEALTH, SAFETY AND WELFARE, BY ADDING A WET WEATHER TRAIL POLICY IN CHAPTER 235: Parks and Recreation Regulations (Wards – All)

WHEREAS, the City is authorized to declare and determine appropriate regulations and requirements to protect the public with regard to the use of the City's parks, trails, and other recreation areas and facilities; and

WHEREAS, the City Council has determined that public safety in the City of Wildwood will be improved by the establishment of a policy for wet weather trail use, and therefore desires to establish these requirements for such.

NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AS FOLLOWS:

Section One. Title II. Public Health, Safety and Welfare of the City Code is hereby amended by adding thereto a new Section (Section 235.120) to the following **Chapter 235: Parks and Recreation Regulations**:

TITLE II. PUBLIC HEALTH, SAFETY AND WELFARE

CHAPTER 235: Parks and Recreation Regulations

Article I. In General

§ 235.010: Intent and Purpose
§ 235.020: Definitions
§ 235.030: Scope and Application

Article II. Park and Recreation Regulation

§ 235.040: General Requirements-Park Properties and Trail Corridors
§ 235.050: Other Requirements-Park Properties and Trail Corridors
§ 235.060: Permits
§ 235.070: Regulations
§ 235.080: Enforcement and Penalties

Article III. Trail Etiquette

§ 235.090: All Users
§ 235.100: Pedestrians and Joggers
§ 235.110: Cyclists
§ 235.120 Wet Weather Trail Policy

ARTICLE I. IN GENERAL

SECTION 235.010: INTENT AND PURPOSE

This Chapter contains the specific regulations for the establishment of rules and requirements relating to the use of the City's parks and recreation facilities, including its system of multiple use trail corridors. With public facilities available for use by residents and visitors, certain considerations must be in place to protect these users, respect surrounding property owners' rights, and provide rules to enhance the overall experience, while promoting a healthy and active lifestyle in the City of Wildwood. These regulations, as described herein, are intended to govern the activities and uses of park properties and trails within the City of Wildwood. The application of these regulations shall be undertaken to protect the public's health, safety, and welfare and promote a healthy, active community where outdoor activities are plentiful and opportunities and facilities exist in close proximity to all households of the City of Wildwood. Consideration shall be given in all instances to surrounding properties to protect lot owners from trespass, vandalism, or inadvertent use.

SECTION 235.020: DEFINITIONS

For the purposes of this Chapter, and in addition to general definitions provided in this Code, the following words and phrases are defined as follows:

"Parks" or "Park Property" – shall mean all land, whether held in fee, lease, right-of-way, easement, or other property interest of the City, made available for use to the public by the City of Wildwood for parks, multi-use trails, or other recreational purposes, including but not limited all lands specifically identified in the Park Registry maintained on file with the City Clerk and incorporated herein.

"Trail Corridor" – the portion of Park Property constituting a pedestrian or multi-use trail and including but not limited to such trail network constructed and to be constructed as included within the trail network map identified in the Park Registry.

SECTION 235.030: Scope and Application

These regulations, as described herein, are intended to govern the activities and uses of all City Parks. The application of these regulations shall be undertaken to protect the public's health, safety, and welfare and promote a healthy, active community where outdoor activities are plentiful and opportunities and facilities exist in close proximity to all households of the City of Wildwood. Consideration shall be given in all instances to surrounding properties to protect lot owners from trespass, vandalism, or inadvertent use. Nothing in these regulations shall apply to or limit the actions of any City employee or agent acting pursuant to authority of the City.

ARTICLE II. PARK AND RECREATION REGULATIONS

SECTION 235.040: General Requirements-Park Properties and Trail Corridors

A. *Hours of Operation*. No person shall remain in any park after the posted closing time, except when engaged in activities that are a part of a recreational program approved by the City of Wildwood.

Park and trail hours of operation shall generally be from one-half hour before dawn to one-half hour after dusk, unless otherwise specifically posted at the property or trail corridor with different hours. It shall be unlawful to stay in a park when directed to leave by any police officer of the City of Wildwood or St. Louis County or park ranger with the City of Wildwood. These hours of operation may be modified by the City Council or by regulation authorized herein for such designated areas of the City as may contemplate greater or lesser hours of operation.

B. *Signage and advertising prohibited; exceptions*. The use, placement, or erection any signboard, sign, billboard, poster, bill, bulletin board, or device of any kind for advertising in any park area or trail corridor is prohibited; provided that nothing herein shall prohibit official approved signage of the City for operation of the park and other public purposes. Department of Planning and Parks may authorize the erection of temporary directional or related signage if deemed in the public welfare to appropriately address authorized uses of park property.

C. *Concealed Weapons and Other Items*. Except as may otherwise be required to be permitted by law, no individual or group of individuals, except duly authorized law enforcement personnel, shall possess any firearm, fireworks, firecracker, torpedo, explosive, air gun, sword, knife, bows and arrows, BB gun, or slingshot within any City-owned park property or designated trail corridor.

D. *Consumption of Alcoholic Beverages*. No person shall possess or consume alcoholic beverages in any park facility or trail corridor.

E. *Swimming Pools and Beaches*. No person shall disobey rules, signs, or lifelines designating swimming areas. Swimming shall be permitted in Park Properties only in areas specifically designated for swimming. All person s using designated swimming areas shall obey all posted pool/beach rules and/or the instruction of lifeguards, facility managers, or other City employees. No person shall give or transmit a false signal or alarm of drowning.

F. *Protection of Wildlife on City-owned Properties*. No person shall in any manner tease, annoy, disturb, molest, catch, injure, kill, throw any stone or missile of any kind at, or strike with any stick or weapon, any animal, bird, or fowl; or to feed any animal, fowl, or bird in any park or trail area, except in areas designated by the City of Wildwood for such feeding. Hunting within City-owned park properties or trail corridors shall be prohibited except when undertaken pursuant to express written special authorization of the City Council to address generally accepted management practices for this type of animal, bird, or fowl, subject to additional requirements established by the regulations or requirements of Missouri Department of Conservation and other hunting requirements as forth in Chapter 210.440 of the City of Wildwood Municipal Code.

G. *Prohibited Activities*. No person shall perform the following activities in a park area unless specifically authorized in writing by the Director of Parks:

1. Operate a fixed or mobile concession, traveling exhibition;
2. Solicit, sell, offer for sale, pedal, hawk, or vend any goods, services;
3. Solicit or accept donations;
4. Advertising any goods or services;

5. Distribute any circular, notice, leaflet, pamphlet, or printed material of any kind;
6. Enter upon, use, or traverse any portion of a park or trail corridor for commercial purpose, including without limitation fundraising and/or fund solicitation, without written permission from the Director of Park; or

H. *River and Water Craft Use and Access*. No person shall keep or operate any boat, float, raft, or other water craft in or upon any bay, lake, slough, river, or creek within the limits of any park or trail corridor, or land the same at any point upon the shores thereof bordering upon any park or trail corridor, except as designated by the City of Wildwood.

I. *Speed Limits on Trails*. No person shall travel on a trail at a speed greater than is reasonable and prudent under the existing conditions and having regard to actual and potential hazards. Speed shall also be controlled as may be necessary to avoid colliding with others who are complying with the law and using reasonable care. Travel at speeds in excess of fifteen (15) miles per hour on a walking/biking trail shall constitute in evidence a prima facie presumption that the person violated this Section.

J. *Control of Pets*. No person shall allow or permit any domestic animal to run at large in any park or trail corridor, or enter any swimming area, pond, or fountain therein. A dog brought into or kept in a park area or trail corridor shall be on a leash of not more than six (6) feet in length.

1. No domestic animals will be allowed in any park, park facility, or trail corridor designated for swimming activities (**except assistance dogs for people with disabilities.**)
2. Any person with a dog or other pet in their possession in any park or trail corridor shall be responsible for both the conduct of the animal and removal from the park or trail corridor of feces or other waste deposited by such animal. The person with the dog or other pet must have in their possession the equipment required for pet waste removal.
3. All persons shall be subject to the City of Wildwood's Health Code when on public property in terms of disposing of pet waste in a proper and accepted manner to control vectors, as stipulated herein.

K. *Damage of City-Owned Property*. No person shall remove, destroy, mutilate, or deface any structure, monument, statue, vase, fountain, wall, fence, railing, vehicle, bench, shrub, tree, fern, plant flower, lighting system, sprinkling system, or other property lawfully in any park or trail corridor. Removal of rocks, stones, artifacts, or similar type of items shall be prohibited, unless authorized by the City of Wildwood's Department of Planning and Parks.

L. *Litter*. No person shall throw any refuse, litter, broken glass, crockery, nails, shrubbery, trimmings, junk, or advertising matter in any park or trail corridor or deposit any such material therein, except in receptacles provided by the City for such purposes.

M. *Illegal Dumping on City-Owned Properties*. No person shall deposit any refuse brought from private property into receptacles located in the City's parks, facilities, or trail corridors. Nothing in this Section is intended to prohibit the disposal of refuse generated from lawful park use such as picnics, barbecues, lunches, etc.

N. *Noise and Disturbance of Peace*. No person shall play car stereos, radios, or "boom boxes" - portable audio equipment, such as tape or compact disc players - so loudly as to interfere with normal conversations or cause annoying vibrations at a reasonable distance.

SECTION 235.050: Other Requirements - Park Properties and Trail Corridors

A. *Park Use and Permitted Activities*. No person shall be allowed in any park or trail corridor to practice or play golf, football baseball, cricket, soccer, polo, archery, hockey, volleyball, badminton, or other games of like character, or to hurl, propel, or fly any airborne or other missile, including radio controlled, model airplanes and/or cars and **frisbees**, except in places and times set apart for such purposes, including areas designated for general use, by the City, or interfere, impede, or otherwise disrupt permitted activities at these defined locations. Programs and activities scheduled by the City will have first priority for use of parks, trails, and all other facilities.

B. *Wheeled Vehicles Utilizing City-Owned Properties*. No person shall use, ride, park, or drive any bicycle, tricycle, pedal-power vehicle carriage, motorcycle, motor vehicle, skateboard, rollerblades, roller-skates, land sailing device, scooter, unicycles, or any other wheeled or similar vehicle, horse or pony on, over or through any park or within a trail corridor designated by signage as being restricted from such activities. This regulation shall not be interpreted to include electric-powered scooters or wheelchairs used for the purposes of mobility for the elderly or special needs populations.

C. *Vehicle Repairs*. No person, without written permission from the City, shall be allowed to operate, repair or service any motor vehicle or motorcycle on park property or within a trail corridor for the purpose of testing, servicing, or repairing.

D. *Permit Requirements for Competitions*. No person shall engage in, conduct, or hold any trials or competitions for speed, endurance, or hill climbing involving any vehicle, boat, aircraft, or animal in any park, without written permission from the City.

E. *Camping*. No person shall, except at places set aside for such purposes by the City and so designated by signs, be allowed to erect a tent or shelter or to arrange bedding, or both, for the purpose of, or in such a way as will permit, remaining overnight. It is also unlawful to park a trailer, camper, or other vehicle for the purpose of remaining overnight.

F. *Cooking, Fires, and Barbeque*. No person shall be allowed to build any fires in any park or trail corridor, except in areas designed and set aside for such purpose by the City. It is unlawful to use any portable barbecue over thirty-six (36) inches in length or less than thirty (30) inches in height over a combustible surface, unless said surface is protected by a heat shield or fireproof device placed under the barbecue.

G. *Disturbance of City-Owned Properties*. No person shall be allowed to use in any park or trail corridor a device to detect ores or metals. No person shall cause or undertake any land disturbance, as defined by the City of Wildwood's Grading Code on any Park Property.

H. *Glass Containers within City-Owned Properties*. No person shall be allowed to possess any glass container in any portion of the park, park facility, or trail corridor, which permits swimming, unless authorized by the City.

I. *Conduct in City-Owned Properties*. No person shall be allowed to use abusive or threatening language or to conduct oneself in a manner that interferes with the reasonable use of a park or trail corridor by the general public.

J. *Non-Authorized Events*. No person shall be allowed to conduct any rally or other event in a park area, designated facilities, or trail corridor, where such activities will conflict in any way with normal park usage, without prior Special Use Permit accommodating such use.

K. *Return of Lost or Found Items*. All individuals or group of individuals shall be responsible for turning in any property or objects found on any park property or trail corridor to the Police Department or at City Hall. Such articles shall be disposed of in accordance with applicable City and State Laws.

L. *Parking Area and Requirements*. No person shall be allowed to park in an area designated as a "No Parking Zone." Parking on grass is not permitted, unless indicated by signage for that purpose. All vehicles shall be located in a designated parking area.

M. *Use of Trail Corridors for Defined Purposes*. No person shall use or access a trail corridor with animals, vehicles, or other modes of transportation unless said property has been specified or authorized for said type of activity.

Section 235.060: Permits

Persons or groups that desire to use the City's facilities may be granted Special Use Permits by the Department of Planning and Parks, subject to a user fee established to recover costs reasonably allocable to such use, including but not limited to costs for maintenance, utilities, enforcement, and administration of such permit or use. Where appropriate, special conditions of use consistent with the purposes of this Chapter and applicable laws shall be established by the Department of Planning and Parks and so noted on the Special Use Permits.

Section 235.070: Regulations

The Director of Parks of the City shall be authorized to promulgate regulations consistent with and implementing any provision of this Chapter and shall maintain such regulations on file with the City Clerk and available to the public. Such regulations, and any condition of any permit granted pursuant to such regulations or this Chapter, shall have the force and effect of law and may be enforced in the manner provided herein for enforcement of this Chapter.

Section 235.080: Enforcement and Penalties

Any person who, by himself or herself or with others, willfully violates any of the provisions of this Chapter shall be guilty of a misdemeanor and upon conviction thereof shall be punishable by a fine of

up to five hundred dollars ($500.00) and/or up to ninety (90) days in jail, or such greater or different penalties, as may be provided by ordinance

Article III. Trail Etiquette

Section 235.090: All Users

- Show courtesy for other trail users at all times.
- Keep dogs on leash, maximum length six (6) feet.
- Obey all trail signs and regulations.
- When entering or crossing a trail at an uncontrolled point, yield to traffic already on the trail.
- No group of trail users shall occupy more than half of the trail as to impede the normal movement of trail users.
- Motor vehicles are not allowed on City of Wildwood trail corridors.
- Being sensitive to how others perceive you will ensure a positive image for your sport and minimize the restrictions that follow negative encounters.
- The trail surface may become slippery and muddy when wet; Ride or walk around ruts and puddles, or you'll just make them worse. Be alert for debris and low light conditions through wooded areas.
- Notify a park security officer about fallen trees or large limbs across trail.
- Animals occasionally wander onto the trail. Use caution to avoid accidents with wildlife.
- An adult should supervise small children using these multi-use trails.

Section 235.100: Pedestrians and Joggers

- Listen for audible signals and help faster trail users pass safely.
- Joggers must yield to walkers. Use caution when passing other trail users.
- Avoid jogging or walking in large groups. Large groups create a hazard by crowding the trail.

Section 235.110: Cyclists

- Cyclists are required to wear safety helmets on all trails in the City of Wildwood.
- Yield to pedestrians.
- Always give an audible (voice, bell, horn) warning before passing another trail user.
- Always yield, pass with care, and keep to a slow, safe speed.
- Approach each bend as if someone were just around the corner. Preparation is the key to a successful and enjoyable ride. Prepare by reviewing trail regulations, wearing the proper equipment, being alert for the unexpected, and understanding your person al ability.

Section 235.120 Wet Weather Trail Policy

- With an inch of measurable precipitation, the natural surface trail network would be closed for a minimum of twenty-four (24) hours thereafter. For each additional inch of precipitation, the natural surface trails would remain closed for another twenty-four (24) hour period of time, i.e. 2 inches of precipitation – 48 hours, 3 inches of precipitation – 72 hours, etc.
- The City's Wet Weather Policy regarding trail use is applicable year-round, with particular focus during spring and fall seasons.

- The determination of natural surface trail closures relative to this policy will also be based upon field inspections, whenever possible, by City staff. Otherwise, if no field inspection is completed, the described precipitation, timeframes, and on-site conditions will be used for the purposes of protecting the trail from undue damage.
- The City will use a combination of private consultants and the National Weather Service's Station at Spirit of St. Louis Airport (KSUS) to gauge the extent of rainfall relative to its decision to close the trail to use. The use of private consultants is intended to refine precipitation amounts to the highest level of accuracy to the specific trail locations.
- The City will place information pertaining to all trail closures on its website, Facebook, and Twitter accounts, along with posting the park entry areas, when capable of such.
- The closures will be applied to all users.
- The notice of the opening of the trail, after a weather-related closure, will be placed on the City's website, Facebook, and Twitter accounts.
- The enforcement of this policy can be undertaken by the City's Code Enforcement staff, St. Louis County Police Department officers, and St. Louis County Park Rangers, with penalties set forth in Chapter 100.140 General Penalty of the City of Wildwood Municipal Code.

Section Two. Except as expressly modified herein, all other provisions of the City's Code shall remain unchanged.

Section Three. This Ordinance shall be in full force and effect both from and after its passage and approval.

This Bill was passed and approved this _____ day of _____, 2016, by the Council of the City of Wildwood, Missouri after having been read by title, or in full two (2) times, prior to passage.

_____
Presiding Officer

_____
The Honorable Timothy Woerther, Mayor

ATTEST:

ATTEST:

_____
Laura Rechtin, Acting City Clerk

_____
Laura Rechtin, Acting City Clerk

Editor's Note: **Changes to Chapter 235 are indicated by blue type.**

RESOLUTION #2016 - 08

A RESOLUTION BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING THE CITY ADMINISTRATOR OF THE CITY OF WILDWOOD, MISSOURI TO EXECUTE A PURCHASE ORDER FOR A NEW GATE STRUCTURE, WITH KEYPADS, FOR THE CITY'S DOG PARK FACILITY IN COMMUNITY PARK. (Wards – All)

WHEREAS, the City of Wildwood opened its dog park facility in October 2015, which was part of the overall Phase One Project; and

WHEREAS, with any opening of a new facility or use area, the design that had been approved is tested to determine if it functions at the desired level and achieves the intended outcome, but also oftentimes leads to modifications to improve it; and

WHEREAS, the access area into the dog park facility was designed by the engineering and park consultants to complement the wooded setting by utilizing materials that were used for this purpose, i.e. wood, timbers, etc., but are large, heavy, and cumbersome to some of the smaller patrons using the facility; and

WHEREAS, with this situation and it needing some repairs already and not appropriate the selected key entry management system, the Department presented two (2) alternatives to the current access management system to the Planning/Economic Development/Parks Committee for its consideration and action; and

WHEREAS, after the Committee reviewed this information, the members recommended the selection of a new access management system that would include battery operated keypads for the purposes of ensuring users of the facility are registered, and Wildwood residents; and

WHEREAS, the cost of this access management system is $4,500.00 and consists of a wrought iron style aluminum fence that will replace the current outer gate for access; and

WHEREAS, concerns were expressed about the inconsistent material, but the Department explained the benefits outweigh the modification and, with its black color and limited profile, should blend well into its surrounding environment; and

WHEREAS, the Committee agreed to forward a favorable recommendation to the City Council for its consideration, which heard the report on the recommendation at its meeting on March 14, 2016, and, thereafter, authorized the preparation of the needed legislation to proceed with the purchase; and

WHEREAS, the provider of this access management system will need approximately six (6) weeks to complete its fabrication and installation; and

WHEREAS, funding for this access management system is available in the Capital Improvements Programs for 2016.

THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AS FOLLOWS:

Section 1: The City Administrator of the City of Wildwood, Missouri is hereby authorized by the City Council of the City of Wildwood, Missouri to execute a purchase order, on behalf of the City of Wildwood, Missouri, with **Classic Metal Craft**, to undertake the agreed upon work to complete the access management system for the dog park facility in community park. A copy of the accepted bid is attached hereto and incorporated herein.

Section 2: The total expenses and liability of this City under this contract shall not exceed a sum of **four thousand five hundred dollars ($4,500.00).**

Section 3: This Resolution shall be effective and in full force upon its passage and approval.

Passed and Approved on this 28th day of March 2016.

_____

The Honorable Timothy Woerther, MAYOR

ATTEST:

_____

City Clerk

Estimate

Classic Metal Craft
1315 S. Vandeventer Ave.
St. Louis. MO 63110
Phone 314-535-2022 Fax 314-535-2030
www.classicmetalcraft.com

Date	Estimate #
3/22/2016	22108

Name / Address
City of Wildwood Gary Crews 16860 Main Street Wildwood, MO 63040

Job Location	
Dog Park Gate	
Phone#	Cell 314-629-4866

Terms
25% down, balance on completion

Description	Total
NEW CUSTOM FLAT TOPPED WROUGHT IRON GATE: Design, fabricate and install one custom double leaf flat top gate that is 5' tall by approximately 10' wide. Gate leafs will not be equal sizes. The main pedestrian gate will be approximately 42" clear opening with remaining being utility gate. The pedestrian gate will latch and lock to utility gate. Gates will be constructed with four sided 1-1/2" x 11 Ga square tubing gate frame with 3/4" x 14 Ga square tubing vertical pickets spaced no more than 3" apart. Pedestrian gate will be equipped with concealed adjustable gate closer/hinge assembly. This gate will be Self Closing & Self Latching. The pedestrian gate will have DOUBLE sided mechanical keypad lock with lever handle in satin chrome finish. Utility gate will hinge from 5" barrel hinges with locking can bolt (padlock not provided). The utility gate will NOT be self closing or self latching. Both gates will hinge from 3" x 11 Ga square tubing topped with pyramid caps set into core drilled holes with non shrink grout. Both hinge posts will anchor back to existing wood posts for additional support. After fabrication, all steel components will be sent out for hot dip galvanizing. This process submerges all the steel items into a vat of molten zinc that bonds the inside and outside of all steel surfaces. (Zinc is naturally resistant to corrosion/rust so the process significantly extends the life of the material). The molten zinc forms a hard surface that normal paint cannot adhere to. So after galvanization the pieces are cleaned, removing most inconsistencies and drips left from being galvanized. (Galvanized surfaces are not as smooth as ungalvanized steel, cast iron parts in particular.) The product is then painted in	4,117.86

Failure of this contractor to pay those persons supplying material or services to complete this contract can result in the filing of a mechanic's lien on the property which is the subject of this contract pursuant to chapter 429, RSMO. To avoid this result you may ask this contractor for "Lien Waivers" from all persons supplying material or services for the work described in this contract. Failure to secure lien waivers may result in your paying for labor and material twice.

Prepared By: Peter	Price good for 60 days	**Subtotal**
		Sales Tax (0.0%)
Acceptance of Estimate:	Date:	**Total**

Upon acceptance of this estimate, please sign above and return back to us via fax or U.S. Mail along with down payment (if applicable)

Estimate

Classic Metal Craft
1315 S. Vandeventer Ave.
St. Louis. MO 63110
Phone 314-535-2022 Fax 314-535-2030
www.classicmetalcraft.com

Date	Estimate #
3/22/2016	22108

Name / Address
City of Wildwood Gary Crews 16860 Main Street Wildwood, MO 63040

Job Location	
Dog Park Gate	
Phone#	Cell 314-629-4866

Terms
25% down, balance on completion

Description	Total
a Vinylast TM Matte/Flat black enamel (A paint specially formulated to adhere to galvanized surfaces). Please Note: The Galvanizing process is done by local company in STL. The company charges based on the overall weight of the job and has a minimum cost/fee per order. If the Total weight of the job does not meet the minimum weight requirements. CMC often waits to have the galvanizing done so that multiple jobs can be grouped together to combine total weight to exceed the minimum weight requirements. Classic Metal Craft is not responsible for permits if required. Please Note: This job is bid with non-union labor without prevailing wage.	

Failure of this contractor to pay those persons supplying material or services to complete this contract can result in the filing of a mechanic's lien on the property which is the subject of this contract pursuant to chapter 429, RSMO. To avoid this result you may ask this contractor for "Lien Waivers" from all persons supplying material or services for the work described in this contract. Failure to secure lien waivers may result in your paying for labor and material twice.

Prepared By: Peter	Price good for 60 days	**Subtotal**	$4,117.86
		Sales Tax (0.0%)	$0.00
Acceptance of Estimate:	Date:	**Total**	**$4,117.86**

Upon acceptance of this estimate, please sign above and return back to us via fax or U.S. Mail along with down payment (if applicable)

CLASMET-02 NDEROUSSE

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 4/27/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Charles L. Crane Agency Co. 100 N Broadway, Ste 900 Saint Louis, MO 63102	PHONE (A/C, No, Ext): (314) 241-8700	FAX (A/C, No): (314) 444-4970
	E-MAIL ADDRESS:	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : EMCASCO Insurance Company	21407
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED

Classic Metal Craft Inc.
1315 S. Vandeventer Ave.
Saint Louis, MO 63110

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			5X05211	04/30/2015	04/30/2016	EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:						Empl Benefits	$ 1,000,000
A	AUTOMOBILE LIABILITY			5X05211	04/30/2015	04/30/2016	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	ALL OWNED AUTOS / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS / X NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
								$
A	X UMBRELLA LIAB X OCCUR			5X05211	04/30/2015	04/30/2016	EACH OCCURRENCE	$ 1,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$ 1,000,000
	DED X RETENTION $ 10,000							$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N		N/A	5X05211	04/30/2015	04/30/2016	PER STATUTE / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E.L. EACH ACCIDENT	$ 500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 500,000
							E.L. DISEASE - POLICY LIMIT	$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

Information Purposes Only

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

W Emmit Benoist

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Form **W-9**
(Rev. December 2014)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Give Form to the requester. Do not send to the IRS.

Print or type
See Specific Instructions on page 2.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.

CLASSIC METAL CRAFT, INC.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification; check only **one** of the following seven boxes:

☐ Individual/sole proprietor or single-member LLC ☐ C Corporation ☑ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____

Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.)

1315 S. Vandeventer Ave.

Requester's name and address (optional)

6 City, state, and ZIP code

St. Louis, MO 63110

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number

			–			–				

or

Employer identification number

2	0	–	8	7	7	6	2	5	8

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here | **Signature of U.S. person** ▶ | **Date** ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at *www.irs.gov/fw9*.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding?* on page 2.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code* on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships* above.

What is FATCA reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account, list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note. ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C Corporation, or S Corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box in line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box in line 3.

Limited Liability Company (LLC). If the name on line 1 is an LLC treated as a partnership for U.S. federal tax purposes, check the "Limited Liability Company" box and enter "P" in the space provided. If the LLC has filed Form 8832 or 2553 to be taxed as a corporation, check the "Limited Liability Company" box and in the space provided enter "C" for C corporation or "S" for S corporation. If it is a single-member LLC that is a disregarded entity, do not check the "Limited Liability Company" box; instead check the first box in line 3 "Individual/sole proprietor or single-member LLC."

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space in line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)

2—The United States or any of its agencies or instrumentalities

3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

4—A foreign government or any of its political subdivisions, agencies, or instrumentalities

5—A corporation

6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession

7—A futures commission merchant registered with the Commodity Futures Trading Commission

8—A real estate investment trust

9—An entity registered at all times during the tax year under the Investment Company Act of 1940

10—A common trust fund operated by a bank under section 584(a)

11—A financial institution

12—A middleman known in the investment community as a nominee or custodian

13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over $600 required to be reported and direct sales over $5,000[1]	Generally, exempt payees 1 through 5[2]
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

[1] See Form 1099-MISC, Miscellaneous Income, and its instructions.

[2] However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note. You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on this page), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at *www.ssa.gov*. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/businesses* and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting IRS.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: *A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.*

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code* earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account[1]
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor[2]
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee[1] The actual owner[1]
5. Sole proprietorship or disregarded entity owned by an individual	The owner[3]
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	**Give name and EIN of:**
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity[4]
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

[4] List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 2.

*Note. Grantor also must provide a Form W-9 to trustee of trust.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to *phishing@irs.gov*. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: *spam@uce.gov* or contact them at *www.ftc.gov/idtheft* or 1-877-IDTHEFT (1-877-438-4338).

Visit IRS.gov to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

WILDWOOD

Memo

To: Mayor Timothy Woerther
Wildwood City Council Members

From: Mike Hartwig, Assistant City Engineer
Joe Vujnich, Director of Planning & Parks

Date: March 25, 2016

Re: Construction Project Updates

Following is an update on all active City construction projects. The Departments of Public Works and Planning/Parks will be available for any questions at the March 28, 2016 City Council Meeting.

Sinkhole on Melrose Road: The contractor has completed the repair work in the area and Melrose Road was re-opened on Friday, February 19. That section of Melrose Road will remain a gravel surface over the next few weeks to allow any settlement that may occur to be monitored. If no significant settlement occurs, asphalt will be placed in the area later in March.

Community Park Access Road Extension: The contractor has begun work to extend the Community Park Access Road to connect to the Pond-Grover Loop Road Extension west of Route 109. Clearing began last week and the contractor will continue clearing and begin grading of the new extension roadway over the next few months. The extension roadway is scheduled to be completed later this year.

2016 Street Slab Replacements: The contractor has begun slab replacement work in the Westridge Oaks Subdivision. They will continue working in the Westridge Oaks Subdivision area over the next few weeks and will also begin work in the Lake Chesterfield Subdivision.

Caulks Creek Trunk Sewer Project by MSD: The contractor for MSD began work to replace the sanitary sewer lines along Strecker Road from near Church Road to Clayton Road. They have begun tree clearing of the sewer line sections along Strecker Road from south of Church Road to McBride Pointe and from south of Woodcliff Heights Drive to Clayton Road. Clearing and work for the section along Strecker Road between McBride Pointe and south of Woodcliff Heights Drive will not begin until this fall. The contractor and MSD have been notifying affected property owners in the area.

Forby Road and Alt Road Project in Eureka: The City of Eureka has started a project to reconstruct Alt and Forby Roads near the south border of the City of Wildwood. This project will widen Alt Road and

Forby Road, re-align the Alt Road/Forby Road intersection, and construct a pedestrian trail along the east edge of Alt Road and the north edge of Forby Road between Wren Meadow Drive and Meramec Boulevard. Utility relocation work began in late January and will continue into May. Road construction work is expected to start after utility work is complete. Sections of Alt Road and Forby Road will be closed at times to complete the work, with the first closure of a section of Alt Road expected in early summer. Signed detour routes will be in place during closures and the City of Wildwood will be notified in advance of the closures as the scheduled dates are made available. Forby Road west of the Alt Road intersection will remain open and accessible at all times to at least one lane of traffic. This project is expected to be completed by the end of 2016.

Manchester Road Great Streets Project: The contractor will continue completion of the final planting work as weather allows.

MH and JV

WILDWOOD

March 28, 2016

Pursuant to Chapter 140, Section 140.050 of the Code of Ordinances of the City of Wildwood drafts and checks numbered 31638 through 31793 from the City of Wildwood Operating Account totaling $804,988.13 and check number 1282 totaling $6,500.00 from the Town Center Sewer Fund as listed on the attached pages have been approved by motion of the Council of the City of Wildwood.

_____
Mayor, City of Wildwood

ATTEST:

_____
City Clerk

VENDOR SET: 01 City of Wildwood

BANK: * ALL BANKS

DATE RANGE: 2/23/2016 THRU 3/28/2016

VENDOR I.D.	NAME		STATUS	CHECK DATE	AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
C-CHECK	VOID CHECK		V	3/04/2016			031671		
0618	ST. LOUIS BANJO CLUB								
C-CHECK	ST. LOUIS BANJO CLUB	VOIDED	V	3/11/2016			031713		500.00CR
C-CHECK	VOID CHECK		V	3/28/2016			031765		
C-CHECK	VOID CHECK		V	3/28/2016			031766		
C-CHECK	VOID CHECK		V	3/28/2016			031767		
C-CHECK	VOID CHECK		V	3/28/2016			031768		
C-CHECK	VOID CHECK		V	3/28/2016			031769		
C-CHECK	VOID CHECK		V	3/28/2016			031770		
C-CHECK	VOID CHECK		V	3/28/2016			031771		

* * T O T A L S * *	NO		INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	0		0.00	0.00	0.00
HAND CHECKS:	0		0.00	0.00	0.00
DRAFTS:	0		0.00	0.00	0.00
EFT:	0		0.00	0.00	0.00
NON CHECKS:	0		0.00	0.00	0.00
VOID CHECKS:	9	VOID DEBITS	0.00		
		VOID CREDITS	500.00CR	500.00CR	0.00

TOTAL ERRORS: 0

	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
VENDOR SET: 01 BANK: * TOTALS:	9	500.00CR	0.00	0.00
BANK: * TOTALS:	9	500.00CR	0.00	0.00

VENDOR SET: 01 City of Wildwood
BANK: 1010 Commerce Bank-Operating
DATE RANGE: 2/23/2016 THRU 3/28/2016

VENDOR	I.D.	NAME	STATUS	CHECK DATE	AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0001		ICMA							
	I-457201603020542	457 DEF COMP	D	3/04/2016			000000		
	10 2140	Plan 457 Withholding	457 DEF COMP		2,296.16				2,296.16
0001		ICMA							
	I-457201603160543	457 DEF COMP	D	3/18/2016			000000		
	10 2140	Plan 457 Withholding	457 DEF COMP		2,296.16				2,296.16
0946		EFTPS							
	I-T1 201603020542	FEDERAL WITHHOLDING	D	3/04/2016			000000		
	10 2120	Federal/FICA Withholding	FEDERAL WITHHOLDING		6,961.51				
	I-T3 201603020542	FICA CONTRIBUTIONS	D	3/04/2016			000000		
	10 2120	Federal/FICA Withholding	FICA CONTRIBUTIONS		4,056.89				
	10 5-10-120-00	FICA & Medicare	FICA CONTRIBUTIONS		929.77				
	10 5-20-120-00	FICA & Medicare	FICA CONTRIBUTIONS		445.45				
	10 5-30-120-00	FICA & Medicare	FICA CONTRIBUTIONS		488.89				
	10 5-40-120-00	FICA & Medicare	FICA CONTRIBUTIONS		272.43				
	10 5-50-120-00	FICA & Medicare	FICA CONTRIBUTIONS		1,132.59				
	10 5-70-120-00	FICA & Medicare	FICA CONTRIBUTIONS		787.76				
	I-T4 201603020542	MEDICARE CONTRIBUTIONS	D	3/04/2016			000000		
	10 2120	Federal/FICA Withholding	MEDICARE CONTRIBUTIO		948.79				
	10 5-10-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		217.45				
	10 5-20-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		104.18				
	10 5-30-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		114.34				
	10 5-40-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		63.72				
	10 5-50-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		264.87				
	10 5-70-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		184.23				16,972.87
0946		EFTPS							
	I-T1 201603160543	FEDERAL WITHHOLDING	D	3/18/2016			000000		
	10 2120	Federal/FICA Withholding	FEDERAL WITHHOLDING		6,785.26				
	I-T3 201603160543	FICA CONTRIBUTIONS	D	3/18/2016			000000		
	10 2120	Federal/FICA Withholding	FICA CONTRIBUTIONS		3,612.57				
	10 5-10-120-00	FICA & Medicare	FICA CONTRIBUTIONS		928.07				
	10 5-20-120-00	FICA & Medicare	FICA CONTRIBUTIONS		245.95				
	10 5-30-120-00	FICA & Medicare	FICA CONTRIBUTIONS		229.57				
	10 5-40-120-00	FICA & Medicare	FICA CONTRIBUTIONS		245.81				
	10 5-50-120-00	FICA & Medicare	FICA CONTRIBUTIONS		1,161.51				
	10 5-70-120-00	FICA & Medicare	FICA CONTRIBUTIONS		801.66				
	I-T4 201603160543	MEDICARE CONTRIBUTIONS	D	3/18/2016			000000		
	10 2120	Federal/FICA Withholding	MEDICARE CONTRIBUTIO		844.86				
	10 5-10-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		217.04				
	10 5-20-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		57.52				
	10 5-30-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		53.69				
	10 5-40-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		57.49				
	10 5-50-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		271.64				
	10 5-70-120-00	FICA & Medicare	MEDICARE CONTRIBUTIO		187.48				15,700.12

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VENDOR	I.D.	NAME	STATUS	CHECK DATE	AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0334		AFLAC							
	I-060542	Voluntary Insurance	R	2/26/2016			031638		
	10 2050	Employee W/holding Payable	Voluntary Insurance		450.04				450.04
0028		APWA -ST LOUIS METRO							
	I-2016	Hartwig/Brown Membership	R	2/26/2016			031639		
	10 5-70-204-00	Dues/Memberships	Hartwig/Brown Member		20.00				20.00
2106		ARAMARK UNIFORM SERVICES, INC.							
	I-452-0810454	Mat Cleaning	R	2/26/2016			031640		
	10 5-10-266-00	Supplies-General	Mat Cleaning		198.61				198.61
1788		BENEFLEX, INC.							
	I-01/23/2016	September 2015 Balance Due	R	2/26/2016			031641		
	10 5-20-140-00	Employee Benefits (125)	September 2015 Balan		10.00				
	10 5-50-140-00	Employee Benefits (125)	September 2015 Balan		12.00				
	10 5-70-140-00	Employee Benefits (125)	September 2015 Balan		2.00				
	I-95183	HRA FSA Monthly Fees	R	2/26/2016			031641		
	10 5-10-140-00	Employee Benefits (125)	HRA FSA Monthly Fees		34.50				
	10 5-20-140-00	Employee Benefits (125)	HRA FSA Monthly Fees		15.00				
	10 5-30-140-00	Employee Benefits (125)	HRA FSA Monthly Fees		15.00				
	10 5-40-140-00	Employee Benefits (125)	HRA FSA Monthly Fees		4.50				
	10 5-50-140-00	Employee Benefits (125)	HRA FSA Monthly Fees		60.00				
	10 5-70-140-00	Employee Benefits (125)	HRA FSA Monthly Fees		34.50				187.50
2232		COCA-COLA REFRESHMENTS							
	I-3868125806	Event Beverages	R	2/26/2016			031642		
	10 5-40-269-00	Supplies - Recreation	Event Beverages		279.60				279.60
0699		GARY CREWS							
	I-02/26/16	Change for Event Sales	R	2/26/2016			031643		
	10 5-40-230-00	Miscellaneous	Change for Event Sal		200.00				200.00
0961		DELTA DENTAL OF MISSOURI							
	I-March 2016	March Dental Insurance	R	2/26/2016			031644		
	10 5-10-140-00	Employee Benefits (125)	March Dental Insuran		556.75				
	10 5-20-140-00	Employee Benefits (125)	March Dental Insuran		125.24				
	10 5-30-140-00	Employee Benefits (125)	March Dental Insuran		187.86				
	10 5-40-140-00	Employee Benefits (125)	March Dental Insuran		187.86				
	10 5-50-140-00	Employee Benefits (125)	March Dental Insuran		828.30				
	10 5-70-140-00	Employee Benefits (125)	March Dental Insuran		633.60				2,519.61
1914		DODGE MOVING & STORAGE, INC.							
	I-M20031	Document Pickup/Storage/Scan	R	2/26/2016			031645		
	10 5-10-211-00	Records Storage	Document Pickup/Stor		388.00				388.00

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2254		E. TERRANCE JONES							
	I-02/25/16-2	Master Plan Facilitation	R	2/26/2016			031646		
	10 5-50-350-00	Contractual Services	Master Plan Facilita		825.00				
	I-1/25/16-1	Master Plan Facilitation	R	2/26/2016			031646		
	10 5-50-350-00	Contractual Services	Master Plan Facilita		525.00				1,350.00
2382		KEYSTONE STAFFING RESOURCES							
	I-215559	Temporary Receptionist	R	2/26/2016			031647		
	10 5-10-350-00	Contractual Services	Temporary Receptioni		531.30				531.30
1793		LIBERTY OFFICE PRODUCTS							
	I-469110	Office Supplies	R	2/26/2016			031648		
	10 5-10-268-00	Supplies-Office	Office Supplies		224.91				
	10 5-10-266-00	Supplies-General	Office Supplies		126.69				351.60
0286		MAILFINANCE							
	I-N5772725	Lease Payment	R	2/26/2016			031649		
	10 5-10-208-00	Equipment Leasing	Lease Payment		570.99				570.99
0367		STACEY MINCOFF							
	I-2461	Newsletter Design/Product	R	2/26/2016			031650		
	10 5-10-345-00	City Newsletter	Newsletter Design/Pr		1,750.00				1,750.00
0875		MO DEPT OF REVENUE							
	I-T2 201602030538	STATE WITHHOLDING	R	2/26/2016			031651		
	10 2130	State Withholding	STATE WITHHOLDING		2,375.00				
	I-T2 201602170541	STATE WITHHOLDING	R	2/26/2016			031651		
	10 2130	State Withholding	STATE WITHHOLDING		2,295.00				4,670.00
1540		NATIONAL RECREATION & PARK ASS							
	I-2016	Annual Membership	R	2/26/2016			031652		
	10 5-40-204-00	Dues/Memberships	Annual Membership		425.00				425.00
0578		PILLSBURY MARKETING							
	I-55080	WW Wear	R	2/26/2016			031653		
	10 5-10-230-00	Miscellaneous	WW Wear		114.98				114.98
2270		PLAYPOWER LT FARMINGTON, INC.							
	I-800R2/956M2/555R3	Community Park Retainage	R	2/26/2016			031654		
	17 5-40-480-25	Community Park Trail PH1 Const	Community Park Retai		30,617.20				30,617.20
2039		PORTABLE WATER CLOSET, LLC							
	I-10231	Cabin Fever Facilities	R	2/26/2016			031655		
	10 5-40-208-00	Equipment Leasing	Cabin Fever Faciliti		75.00				
	I-10361	Facility Rental	R	2/26/2016			031655		
	10 5-40-208-00	Equipment Leasing	Facility Rental		1,190.00				
	10 5-40-208-00	Equipment Leasing	Facility Rental		430.00				1,695.00

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2399	RALPH BUTLER BAND							
I-8/24/16-1	Founder's Day Music	R	2/26/2016			031656		
10 5-40-715-00	Founders Day	Founder's Day Music		900.00				900.00
0049	REJIS COMMISSION							
I-INV0046680	Land Database/Sub Escrow	R	2/26/2016			031657		
10 5-50-250-00	Internet Connection	Land Database/Sub Es		22.50				
10 5-50-350-00	Contractual Services	Land Database/Sub Es		750.00				
I-INV0046681	Sub Fee/Acces/Firewall	R	2/26/2016			031657		
10 5-30-250-00	Internet Connection	Sub Fee/Acces/Firewa		247.01				1,019.51
2148	SELECT CONSTRUCTION ENTERPRISE							
I-20150877	Set Antennas on WIFI	R	2/26/2016			031658		
17 5-70-480-34	Rural Internet Access	Set Antennas on WIFI		1,125.00				1,125.00
2210	ST. LOUIS RECHARGE & FIRE CONT							
I-37517	Annual Inspection	R	2/26/2016			031659		
10 5-40-350-01	Park Maintenance	Annual Inspection		40.00				40.00
0869	STAPLES BUSINESS ADVANTAGE							
I-8038055443	Office Supplies	R	2/26/2016			031660		
10 5-10-268-00	Supplies-Office	Office Supplies		99.17				
10 5-10-266-00	Supplies-General	Office Supplies		94.14				
10 5-50-268-00	Supplies-Office	Office Supplies		25.80				219.11
0517	SWIFT PRINT COMMUNICATION							
I-68181	Newsletter & Mailing	R	2/26/2016			031661		
10 5-10-345-00	City Newsletter	Newsletter & Mailing		6,556.21				6,556.21
0704	UNITED HEALTHCARE INSURANCE CO							
I-C0039952145	March Health Insurance	R	2/26/2016			031662		
10 5-10-140-00	Employee Benefits (125)	March Health Insuran		5,956.40				
10 5-20-140-00	Employee Benefits (125)	March Health Insuran		855.59				
10 5-30-140-00	Employee Benefits (125)	March Health Insuran		2,178.93				
10 5-40-140-00	Employee Benefits (125)	March Health Insuran		2,723.14				
10 5-50-140-00	Employee Benefits (125)	March Health Insuran		7,244.61				
10 5-70-140-00	Employee Benefits (125)	March Health Insuran		6,300.84				
10 2050	Employee W/holding Payable	March Health Insuran		71.99				25,331.50
0658	VERIZON WIRELESS							
I-9760288060	Cell Phones	R	2/26/2016			031663		
10 5-10-282-00	Utilities-Telephone	Cell Phones		53.05				
10 5-20-282-00	Utilities-Telephone	Cell Phones		106.10				
10 5-30-282-00	Utilities-Telephone	Cell Phones		53.05				
10 5-40-282-00	Utilities-Telephone	Cell Phones		43.90CR				
10 5-50-282-00	Utilities-Telephone	Cell Phones		208.96				
10 5-70-282-00	Utilities-Telephone	Cell Phones		185.67				562.93

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0172		EAST-WEST GATEWAY COUNCIL OF G							
	I-2/26/16	Application Fee	R	2/29/2016			031664		
	18 5-70-460-07	Other Roadway Imp Projects	Application Fee		20,600.00				20,600.00
2395		ACCORD BUILDING SERVICES, LLC							
	I-11178	Janitorial Services	R	3/04/2016			031665		
	10 5-10-220-00	Maintenance-Building	Janitorial Services		1,205.00				
	10 5-40-220-00	Maintenance - Building	Janitorial Services		172.00				
	10 5-60-350-02	Contractual Cleaning	Janitorial Services		448.00				1,825.00
1435		ARAMARK REFRESHMENT SERVICES							
	I-5771139	Coffee	R	3/04/2016			031666		
	10 5-10-266-00	Supplies-General	Coffee		435.25				435.25
2106		ARAMARK UNIFORM SERVICES, INC.							
	I-452-0835610	Mat Cleaning	R	3/04/2016			031667		
	10 5-10-210-00	Facilities	Mat Cleaning		198.61				198.61
0138		BOARD OF ELECTION COMM.							
	I-4/5/16	April 5, 2016 Election	R	3/04/2016			031668		
	10 5-20-206-00	Election Expense	April 5, 2016 Electi		8,755.96				8,755.96
0073		CHESTERFIELD MINUTEMAN							
	I-35828	McGowen Business Cards	R	3/04/2016			031669		
	10 5-20-242-00	Printing Expense	McGowen Business Car		73.00				73.00
0423		COMMERCE BANK							
	I-106623	Community Garden Meeting Suppl	R	3/04/2016			031670		
	10 5-40-230-00	Miscellaneous	Community Garden Mee		42.81				
	I-109086	ECRP Supplies	R	3/04/2016			031670		
	10 5-40-269-00	Supplies - Recreation	ECRP Supplies		70.54				
	I-119628	Lower Meramec River Meeting	R	3/04/2016			031670		
	10 5-50-270-00	Training	Lower Meramec River		24.00				
	I-181823	Linked In Marketing	R	3/04/2016			031670		
	10 5-10-201-00	Community Relations	Linked In Marketing		59.99				
	I-204976	Locks	R	3/04/2016			031670		
	10 5-40-266-00	Supplies-General	Locks		100.00				
	I-21740	Econ Dev Training	R	3/04/2016			031670		
	10 5-50-270-00	Training	Econ Dev Training		15.00				
	I-289094	Laptop & Docking St. - Brown	R	3/04/2016			031670		
	10 5-70-293-00	Computer System Under $5K	Laptop & Docking St.		1,243.51				
	I-300031	Staff Meeting Lunch	R	3/04/2016			031670		
	10 5-10-264-00	Meetings & Special Events	Staff Meeting Lunch		459.00				
	I-312423	Lower Meramec River Meeting	R	3/04/2016			031670		
	10 5-70-270-00	Training	Lower Meramec River		12.00				
	I-371237	Office Supplies	R	3/04/2016			031670		
	10 5-10-268-00	Supplies-Office	Office Supplies		15.00				
	I-509141	GFOA Conference	R	3/04/2016			031670		

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0423	COMMERCE BANK CONT							
I-509141	GFOA Conference	R	3/04/2016			031670		
10 5-10-270-00	Training	GFOA Conference		125.00				
I-522429	Supplies for City Event	R	3/04/2016			031670		
10 5-40-266-00	Supplies-General	Supplies for City Ev		17.00				
I-573497	Basecamp Monthly Fee	R	3/04/2016			031670		
10 5-50-350-00	Contractual Services	Basecamp Monthly Fee		50.00				
I-577005	Facebook Marketing	R	3/04/2016			031670		
10 5-10-201-00	Community Relations	Facebook Marketing		12.06				
I-623596	Supplies for Lunch Meeting	R	3/04/2016			031670		
10 5-40-266-00	Supplies-General	Supplies for Lunch M		22.97				
I-656047	Tablecloths	R	3/04/2016			031670		
10 5-40-266-00	Supplies-General	Tablecloths		57.35				
I-711281	Adobe Monthly Fee	R	3/04/2016			031670		
10 5-50-293-00	Computer System Under $5K	Adobe Monthly Fee		99.98				
I-718156	Lumber for Garden Boxes	R	3/04/2016			031670		
10 5-40-736-00	Farmers Market	Lumber for Garden Bo		1,104.10				
I-766677	Lumber for Garden Boxes	R	3/04/2016			031670		
10 5-40-736-00	Farmers Market	Lumber for Garden Bo		529.66				
I-872146	Supplies ECRP	R	3/04/2016			031670		
10 5-40-269-00	Supplies - Recreation	Supplies ECRP		78.11				
I-979513	Parks Supplies	R	3/04/2016			031670		
10 5-40-266-00	Supplies-General	Parks Supplies		7.49				4,145.57
0743	DATAMAX OFFICE SYSTEMS							
I-1108307	Copier Base Rate	R	3/04/2016			031672		
10 5-10-262-00	Service Contracts/Rental	Copier Base Rate		104.00				104.00
2056	DELUCA PLUMBING LLC							
I-16001-012	Restroom Repair	R	3/04/2016			031673		
10 5-10-220-00	Maintenance-Building	Restroom Repair		653.00				653.00
2401	JESSICA EISENMANN							
I-3/4/16	Refund Overpayment Dog Park	R	3/04/2016			031674		
10 4-07-988-00	Dog Park Fees	Refund Overpayment D		10.00				10.00
1672	FIDLAR TECHNOLOGIES INC.							
I-0446418-IN	Larado Usage	R	3/04/2016			031675		
10 5-50-350-00	Contractual Services	Larado Usage		100.00				100.00
2396	GENE DEL							
I-156552	Print Invitations	R	3/04/2016			031676		
10 5-40-242-00	Printing	Print Invitations		264.00				264.00

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0767		GFOA							
I-2016-1		Dist Budget Award App Fee	R	3/04/2016			031677		
20	5-10-230-00	Miscellaneous	Dist Budget Award Ap		280.00				280.00
0776		HOME DEPOT CREDIT SERVICE							
I-2060919		Trash Bags	R	3/04/2016			031678		
10	5-70-266-00	Supplies-General	Trash Bags		107.04				
I-4970011		CH Blinds	R	3/04/2016			031678		
10	5-10-220-00	Maintenance-Building	CH Blinds		158.40				
I-7073699		Lock	R	3/04/2016			031678		
10	5-40-266-00	Supplies-General	Lock		30.94				
I-75361		Gloves	R	3/04/2016			031678		
10	5-70-266-00	Supplies-General	Gloves		34.96				331.34
0537		INTUITION & LOGIC, INC.							
I-160207		Professional Services	R	3/04/2016			031679		
17	5-40-480-33	Ped Brg over 100 Eath. Des/Eng	Professional Service		1,268.48				1,268.48
2382		KEYSTONE STAFFING RESOURCES							
I-215651		Temp Receptionist	R	3/04/2016			031680		
10	5-10-350-00	Contractual Services	Temp Receptionist		462.00				462.00
0077		KWIK COURIER SYSTEMS							
I-Feb 2016		Courier Service	R	3/04/2016			031681		
10	5-10-230-00	Miscellaneous	Courier Service		26.20				
10	5-50-230-00	Miscellaneous	Courier Service		70.00				96.20
0669		LEWIS RICE & FINGERSH L.C							
I-1244375		General Matters	R	3/04/2016			031682		
10	5-10-310-00	Attorney Fees	General Matters		3,626.00				
I-1244376		Real Estate Fees	R	3/04/2016			031682		
10	5-10-310-00	Attorney Fees	Real Estate Fees		732.00				
I-1244377		Retainer	R	3/04/2016			031682		
10	5-10-310-00	Attorney Fees	Retainer		5,300.00				
I-1244378		Main Street Crossing	R	3/04/2016			031682		
10	5-10-310-00	Attorney Fees	Main Street Crossing		563.50				
I-1244410		Pool Tax Consortium Litigation	R	3/04/2016			031682		
10	5-10-315-00	Litigation Contingencies	Pool Tax Consortium		2,067.08				12,288.58
0898		MISSOURI LAWYERS MEDIA							
I-742611855		Public Hearing Notice	R	3/04/2016			031683		
10	5-50-244-00	Public Notices	Public Hearing Notic		104.40				104.40

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0875		MO DEPT OF REVENUE							
	I-February 2016	Crime Victims Comp Fund	R	3/04/2016			031684		
	10 2212	Due to State of Missouri	Crime Victims Comp F		2,408.21				2,408.21
1536		MUTUAL OF OMAHA							
	I-000490331475	Life & Disability - March	R	3/04/2016			031685		
	10 5-10-142-00	Insurance (Life & Disability)	Life & Disability -		234.46				
	10 5-20-142-00	Insurance (Life & Disability)	Life & Disability -		92.62				
	10 5-30-142-00	Insurance (Life & Disability)	Life & Disability -		92.84				
	10 5-40-142-00	Insurance (Life & Disability)	Life & Disability -		142.90				
	10 5-50-142-00	Insurance (Life & Disability)	Life & Disability -		368.20				
	10 5-70-142-00	Insurance (Life & Disability)	Life & Disability -		222.63				
	10 2050	Employee W/holding Payable	Life & Disability -		507.61				1,661.26
2053		SCHINDLER ELEVATOR CORPORATION							
	I-8104211835	Annual Contract	R	3/04/2016			031686		
	10 5-10-220-00	Maintenance-Building	Annual Contract		3,358.80				3,358.80
2400		SHRED-IT							
	I-9409519403	Shredding Service	R	3/04/2016			031687		
	10 5-30-230-00	Miscellaneous	Shredding Service		11.44				11.44
0987		ST. LOUIS COUNTY TREASURER							
	I-Feb 2016-1	St. Louis County PD	R	3/04/2016			031688		
	10 2216	Due to STL County - County PD	St. Louis County PD		40.00				
	I-Feb 2016-2	STL County Justice Serv	R	3/04/2016			031688		
	10 2215	Due to STL County DWI JS	STL County Justice S		35.00				75.00
0869		STAPLES BUSINESS ADVANTAGE							
	I-8038142987	Office Supplies	R	3/04/2016			031689		
	10 5-10-268-00	Supplies-Office	Office Supplies		130.51				
	10 5-10-266-00	Supplies-General	Office Supplies		69.99				200.50
0684		TREASURER- ST LOUIS COUNTY							
	I-Feb 2016	Domestic Violence Fund	R	3/04/2016			031690		
	10 2214	Due to St. Louis County	Domestic Violence Fu		675.51				675.51
0876		TREASURER- STATE OF MO							
	I-Feb 2016	Peace Officer Training Fund	R	3/04/2016			031691		
	10 2212	Due to State of Missouri	Peace Officer Traini		337.75				337.75
1322		VOICEPRO, INC.							
	I-11982	Program Stations	R	3/04/2016			031692		
	10 5-50-282-00	Utilities-Telephone	Program Stations		230.00				230.00

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VENDOR	I.D.	NAME	STATUS	CHECK DATE	AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0593		5-STAR PUBLIC RELATIONS & MARK							
	I-808084	Edit/Write Gazette Articl	R	3/11/2016			031693		
	10 5-10-345-00	City Newsletter	Edit/Write Gazette A		797.50				797.50
1435		ARAMARK REFRESHMENT SERVICES							
	I-5772198	Coffee	R	3/11/2016			031694		
	10 5-10-266-00	Supplies-General	Coffee		276.00				276.00
2106		ARAMARK UNIFORM SERVICES, INC.							
	I-452-0860716	Mat Cleaning	R	3/11/2016			031695		
	10 5-10-220-00	Maintenance-Building	Mat Cleaning		198.61				198.61
1609		AT&T MOBILITY							
	I-02282016	Electronic Signs	R	3/11/2016			031696		
	10 5-40-282-00	Utilities-Telephone	Electronic Signs		131.52				131.52
0865		CHARTER COMMUNICATIONS							
	I-3/1/16	Business TV/Internet	R	3/11/2016			031697		
	10 5-60-285-00	Utilities - Cable TV	Business TV/Internet		66.98				
	10 5-10-250-00	Internet Connection	Internet		180.47				247.45
0073		CHESTERFIELD MINUTEMAN							
	I-35852	Business Cards	R	3/11/2016			031698		
	10 5-50-242-00	Printing Expense	Business Cards		64.00				
	10 5-20-242-00	Printing Expense	Business Cards		64.00				128.00
0064		THE CLOWNS LLC							
	I-3/10/2016	Egg Hunt Entertainment	R	3/11/2016			031699		
	10 5-40-350-00	Contractual Services	Egg Hunt Entertainme		750.00				750.00
1914		DODGE MOVING & STORAGE, INC.							
	I-M2003J	Records Storage	R	3/11/2016			031700		
	10 5-10-211-00	Records Storage	Records Storage		118.48				118.48
1635		ENVIRONMENTAL STEWARDSHIP CONC							
	I-4	Strecker Forest	R	3/11/2016			031701		
	10 5-50-757-00	Strecker Forest Envirn. Assmnt	Strecker Forest		4,790.00				4,790.00
0031		FEDEX							
	I-5-339-35794	Delivery Charges	R	3/11/2016			031702		
	10 5-70-240-00	Postage	Delivery Charges		18.86				18.86
2218		JVR ENTERPRISES LLC							
	I-3/10/2016	Bubble Bus for Event	R	3/11/2016			031703		
	10 5-40-350-00	Contractual Services	Bubble Bus for Event		445.00				445.00

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VENDOR	I.D.	NAME	STATUS	CHECK DATE	AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
2382		KEYSTONE STAFFING RESOURCES							
	I-215740	Temp Receptionist	R	3/11/2016			031704		
	10 5-10-350-00	Contractual Services	Temp Receptionist		288.75				288.75
1793		LIBERTY OFFICE PRODUCTS							
	I-471259	Office Supplies	R	3/11/2016			031705		
	10 5-10-268-00	Supplies-Office	Office Supplies		210.55				210.55
0783		MAGELLAN BEHAVIORAL HEALTH							
	I-31142653	2nd Qtr Prof Services	R	3/11/2016			031706		
	10 5-10-140-00	Employee Benefits (125)	2nd Qtr Prof Service		33.72				
	10 5-20-140-00	Employee Benefits (125)	2nd Qtr Prof Service		12.65				
	10 5-30-140-00	Employee Benefits (125)	2nd Qtr Prof Service		12.65				
	10 5-40-140-00	Employee Benefits (125)	2nd Qtr Prof Service		16.86				
	10 5-50-140-00	Employee Benefits (125)	2nd Qtr Prof Service		63.23				
	10 5-70-140-00	Employee Benefits (125)	2nd Qtr Prof Service		29.49				168.60
1092		MERIDIAN WASTE SERVICES							
	I-63310240	18538 Hardt 20Y Rolloff	R	3/11/2016			031707		
	10 5-40-208-00	Equipment Leasing	18538 Hardt 20Y Roll		286.00				286.00
0367		STACEY MINCOFF							
	I-2462	Design & Prod Recyce/Shred Fly	R	3/11/2016			031708		
	10 5-20-713-00	Document Shred/Elec Recycle Ev	Design & Prod Recyce		275.00				275.00
0898		MISSOURI LAWYERS MEDIA							
	I-742622061	Public Notice	R	3/11/2016			031709		
	10 5-20-244-00	Public Notices	Public Notice		84.68				
	I-742634958	Public Hearing Notice	R	3/11/2016			031709		
	10 5-50-244-00	Public Notices	Public Hearing Notic		105.56				
	I-742637186	Public Hearing Notice	R	3/11/2016			031709		
	10 5-50-244-00	Public Notices	Public Hearing Notic		77.72				267.96
0578		PILLSBURY MARKETING							
	I-55086	Items for City Event	R	3/11/2016			031710		
	10 5-50-740-00	Planning Commission	Items for City Event		1,402.55				1,402.55
0468		ST LOUIS COUNTY TREASURER							
	I-82854	Water Testing	R	3/11/2016			031711		
	10 5-50-350-00	Contractual Services	Water Testing		90.00				90.00
2402		ST. LOUIS AUTO DETAIL							
	I-sup 15-089	Release SUP 15-089	R	3/11/2016			031712		
	20 2230	P & Z Escrow	Release SUP 15-089		500.00				500.00

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VENDOR	I.D.	NAME	STATUS	CHECK DATE	AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0618		ST. LOUIS BANJO CLUB							
	I-SUP 15-089	Release SUP 15-089	V	3/11/2016			031713		500.00
0618		ST. LOUIS BANJO CLUB							
	M-CHECK	ST. LOUIS BANJO CLUB VOIDED	V	3/11/2016			031713		500.00CR
0785		ST. LOUIS POST-DISPATCH							
	I-T2099467	Bid Invitiation	R	3/11/2016			031714		
	17 5-40-480-11	Al Foster Trailhead Imp	Bid Invitiation		1,721.44				1,721.44
0869		STAPLES BUSINESS ADVANTAGE							
	I-8038255790	Office Supplies	R	3/11/2016			031715		
	10 5-10-268-00	Supplies-Office	Office Supplies		137.53				137.53
0010		RYAN S. THOMAS							
	I-03/11/2016	Travel Reimbursement	R	3/11/2016			031716		
	10 5-10-274-00	Travel	Travel Reimbursement		174.87				174.87
0822		WILDWOOD FAMILY YMCA							
	I-02/2016	Membership Dues	R	3/11/2016			031717		
	10 5-10-204-00	Dues/Memberships	Membership Dues		105.00				
	I-1/2016	Membership Dues	R	3/11/2016			031717		
	10 5-10-204-00	Dues/Memberships	Membership Dues		105.00				210.00
0539		WINDSTREAM							
	I-15190308	Phone Service	R	3/11/2016			031718		
	10 5-10-282-00	Utilities-Telephone	Phone Service		191.73				
	10 5-20-282-00	Utilities-Telephone	Phone Service		58.69				
	10 5-30-282-00	Utilities-Telephone	Phone Service		58.69				
	10 5-40-282-00	Utilities-Telephone	Phone Service		78.25				
	10 5-50-282-00	Utilities-Telephone	Phone Service		254.33				
	10 5-70-282-00	Utilities-Telephone	Phone Service		156.51				798.20
2232		COCA-COLA REFRESHMENTS							
	I-3878110008	Event Refreshments	R	3/14/2016			031719		
	10 5-40-269-00	Supplies - Recreation	Event Refreshments		150.00				150.00
2403		DAY 3 PRODUCTIONS							
	I-3-14-16	Juggling Egg Hunt	R	3/14/2016			031720		
	10 5-40-350-00	Contractual Services	Juggling Egg Hunt		450.00				450.00
1373		INCREDIBLE ENGRAVINGS							
	I-292	Name Badges & Plate	R	3/14/2016			031721		
	10 5-20-242-00	Printing Expense	Name Badges & Plate		10.00				
	10 5-50-242-00	Printing Expense	Name Badges & Plate		20.13				
	10 5-70-242-00	Printing Expense	Name Badges & Plate		20.12				50.25

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1793		LIBERTY OFFICE PRODUCTS							
	I-472086	Office Supplies	R	3/14/2016			031722		
	10 5-10-268-00	Supplies-Office	Office Supplies		203.57				203.57
1928		RENE' SACKETT							
	I-3-14-15	2016 Farmers Mkt Exp Reimb	R	3/14/2016			031723		
	10 5-40-736-00	Farmers Market	2016 Farmers Mkt Exp		1,500.00				1,500.00
0853		ST LOUIS COUNTY TREASURER							
	I-82880	Prisoner Housing	R	3/14/2016			031724		
	10 5-30-243-00	Prisoner Expense	Prisoner Housing		150.00				150.00
0267		ST LOUIS CTY MUNI LEAGUE							
	I-2016	Annual Tuition	R	3/14/2016			031725		
	10 5-20-270-00	Training	Annual Tuition		100.00				100.00
2240		ST. LOUIS COMPOSTING							
	I-03/14/16	PH Modified 6.5 Compost	R	3/14/2016			031726		
	10 5-40-739-00	Community Garden	PH Modified 6.5 Comp		1,440.00				1,440.00
2135		BEN WALTER							
	I-3/17/2016	Back Street Cruisers Perf.	R	3/17/2016			031727		
	10 5-40-350-00	Contractual Services	Back Street Cruisers		400.00				400.00
0559		METROPOLITAN SEWER DIST.							
	I-3/23/16	Appl Fee Pond Grover Sewer Con	R	3/23/2016			031728		
	17 5-40-480-41	Community Park PH2 Const.	Appl Fee Pond Grover		450.00				450.00
0334		AFLAC							
	I-469523	Voluntary Insurance	R	3/24/2016			031729		
	10 2050	Employee W/holding Payable	Voluntary Insurance		450.04				450.04
2106		ARAMARK UNIFORM SERVICES, INC.							
	I-452-0885893	Mat Cleaning	R	3/24/2016			031730		
	10 5-10-266-00	Supplies-General	Mat Cleaning		198.61				198.61
2260		BAGSPOT							
	I-2208	Trashcan Liners	R	3/24/2016			031731		
	10 5-40-266-00	Supplies-General	Trashcan Liners		19.95				19.95
1788		BENEFLEX, INC.							
	I-95991	FSA & HRA Management	R	3/24/2016			031732		
	10 5-10-140-00	Employee Benefits (125)	FSA & HRA Management		34.50				
	10 5-20-140-00	Employee Benefits (125)	FSA & HRA Management		15.00				
	10 5-30-140-00	Employee Benefits (125)	FSA & HRA Management		15.00				
	10 5-40-140-00	Employee Benefits (125)	FSA & HRA Management		4.50				
	10 5-50-140-00	Employee Benefits (125)	FSA & HRA Management		60.00				
	10 5-70-140-00	Employee Benefits (125)	FSA & HRA Management		34.50				163.50

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0073		CHESTERFIELD MINUTEMAN							
	I-35887	Business Cards - Porter	R	3/24/2016			031733		
	10 5-20-242-00	Printing Expense	Business Cards - Por		73.00				73.00
0961		DELTA DENTAL OF MISSOURI							
	I-2016-04	Dental Insurance - April	R	3/24/2016			031734		
	10 5-10-140-00	Employee Benefits (125)	Dental Insurance - A		556.75				
	10 5-20-140-00	Employee Benefits (125)	Dental Insurance - A		125.24				
	10 5-30-140-00	Employee Benefits (125)	Dental Insurance - A		187.86				
	10 5-40-140-00	Employee Benefits (125)	Dental Insurance - A		187.86				
	10 5-50-140-00	Employee Benefits (125)	Dental Insurance - A		765.68				
	10 5-70-140-00	Employee Benefits (125)	Dental Insurance - A		633.60				2,456.99
2056		DELUCA PLUMBING LLC							
	I-16001-019	City Hall Restrooms	R	3/24/2016			031735		
	10 5-10-220-00	Maintenance-Building	City Hall Restrooms		470.00				470.00
0019		EXXONMOBIL BUSINESS							
	I-718785921015658360	Vehicle Fuel	R	3/24/2016			031736		
	10 5-50-224-00	Maintenance-Vehicles	Vehicle Fuel		114.84				
	10 5-40-224-00	Maintenance-Vehicles	Vehicle Fuel		43.97				
	10 5-70-224-00	Maintenance-Vehicles	Vehicle Fuel		144.04				302.85
2396		GENE DEL							
	I-156757	Business Cards - Farmers Mkt	R	3/24/2016			031737		
	10 5-40-736-00	Farmers Market	Business Cards - Far		68.00				68.00
2405		KENRICK'S							
	I-03182016	Event Food - Easter Egg Hunt	R	3/24/2016			031738		
	10 5-40-269-00	Supplies - Recreation	Event Food - Easter		268.26				268.26
2382		KEYSTONE STAFFING RESOURCES							
	I-215839	Temp Receptionist	R	3/24/2016			031739		
	10 5-10-350-00	Contractual Services	Temp Receptionist		277.20				
	I-215920	Temp Receptionist	R	3/24/2016			031739		
	10 5-10-350-00	Contractual Services	Temp Receptionist		277.20				554.40
2408		ED KOHN							
	I-03/24/2016	Reimb Deer Haven Admin Fee	R	3/24/2016			031740		
	10 4-02-936-00	P & Z Permits/Fees	Reimb Deer Haven Adm		350.00				350.00
2404		DIANE/JEFF LEAVELL							
	I-GP 2015-020	Release GP 2015-020	R	3/24/2016			031741		
	20 2230	P & Z Escrow	Release GP 2015-020		1,000.00				1,000.00

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2331		LEWIS & CLARK FIFE AND DRUM CO							
	I-03112016	Celebrate Wildwood Parade	R	3/24/2016			031742		
	10 5-40-350-00	Contractual Services	Celebrate Wildwood P		400.00				400.00
1793		LIBERTY OFFICE PRODUCTS							
	I-472908	Office Products	R	3/24/2016			031743		
	10 5-10-268-00	Supplies-Office	Office Products		138.19				
	10 5-10-266-00	Supplies-General	Office Products		34.64				
	10 5-70-268-00	Supplies-Office	Office Products		13.19				186.02
1105		MEM							
	I-193510873	2015 Workers Comp	R	3/24/2016			031744		
	10 5-10-180-00	Workers Compensation	2015 Workers Comp		20.00				
	10 5-20-180-00	Workers Compensation	2015 Workers Comp		5.00				
	10 5-40-180-00	Workers Compensation	2015 Workers Comp		7.00				
	10 5-50-180-00	Workers Compensation	2015 Workers Comp		619.00				
	10 5-70-180-00	Workers Compensation	2015 Workers Comp		364.00				1,015.00
0197		RANDY BURKETT LIGHTING							
	I-15050F01	Cambury Lighting Review	R	3/24/2016			031745		
	10 5-50-340-00	Consultant Costs	Cambury Lighting Rev		450.00				
	I-15050Q01	Sign Brightness Review	R	3/24/2016			031745		
	10 5-50-340-00	Consultant Costs	Sign Brightness Revi		475.00				925.00
0049		REJIS COMMISSION							
	I-INV0047233	Planning Database	R	3/24/2016			031746		
	10 5-50-250-00	Internet Connection	Planning Database		22.50				
	10 5-50-350-00	Contractual Services	Subdivision Escrow		750.00				
	I-INV047234	Court Database	R	3/24/2016			031746		
	10 5-30-250-00	Internet Connection	Court Database		247.01				1,019.51
0038		RICOH USA, INC.							
	I-96512147	Copy Machine Rent	R	3/24/2016			031747		
	10 5-10-208-00	Equipment Leasing	Copy Machine Rent		825.14				
	10 5-50-208-00	Equipment Leasing	Copy Machine Rent		906.93				
	10 5-70-208-00	Equipment Leasing	Copy Machine Rent		906.93				2,639.00
2160		RICOH USA, INC.							
	I-5040911130	Copier Images	R	3/24/2016			031748		
	10 5-10-262-00	Service Contracts/Rental	Copier Images		1,170.43				1,170.43
1837		ROCKWOOD SCHOOL DISTRICT							
	I-7623	Fairway Elementary Rental	R	3/24/2016			031749		
	10 5-40-264-00	Meetings & Special Events	Fairway Elementary R		323.00				323.00

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VENDOR	I.D.	NAME	STATUS	CHECK DATE	AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0869		STAPLES BUSINESS ADVANTAGE							
	I-8038357972	Office Products	R	3/24/2016			031750		
	10 5-10-268-00	Supplies-Office	Office Products		184.45				
	10 5-10-266-00	Supplies-General	Office Products		168.70				
	I-8038448995	Office Products	R	3/24/2016			031750		
	10 5-10-268-00	Supplies-Office	Office Products		253.66				
	10 5-40-268-00	Supplies - Office	Office Products		21.58				
	10 5-50-268-00	Supplies-Office	Office Products		25.80				
	10 5-50-293-00	Computer System Under $5K	Computer Monitors		479.93				1,134.12
0658		VERIZON WIRELESS							
	I-9761923313	Wireless Phone Service	R	3/24/2016			031751		
	10 5-10-282-00	Utilities-Telephone	Wireless Phone Servi		53.05				
	10 5-20-282-00	Utilities-Telephone	Wireless Phone Servi		106.10				
	10 5-30-282-00	Utilities-Telephone	Wireless Phone Servi		53.05				
	10 5-40-282-00	Utilities-Telephone	Wireless Phone Servi		106.10				
	10 5-50-282-00	Utilities-Telephone	Wireless Phone Servi		358.96				
	10 5-70-282-00	Utilities-Telephone	Wireless Phone Servi		185.67				862.93
1322		VOICEPRO, INC.							
	I-12021	Phone System Install & Update	R	3/24/2016			031752		
	10 5-10-282-00	Utilities-Telephone	Phone System Install		678.75				678.75
2135		BEN WALTER							
	I-03242016	Band - Back Street Cruisers	R	3/24/2016			031753		
	10 5-40-350-00	Contractual Services	Band - Back Street C		200.00				200.00
1776		AMERICAN CARNIVAL MART							
	I-155106	Eggs for Egg Hunt	R	3/28/2016			031754		
	10 5-40-269-00	Supplies - Recreation	Eggs for Egg Hunt		2,340.00				2,340.00
2106		ARAMARK UNIFORM SERVICES, INC.							
	I-452-0910863	Mat Cleaning	R	3/28/2016			031755		
	10 5-10-266-00	Supplies-General	Mat Cleaning		198.61				198.61
1135		BEELMAN LOGISTICS LLC							
	I-480963	Salt Delivery 2016	R	3/28/2016			031756		
	10 5-70-350-33	Snow-Salt	Salt Delivery 2016		823.80				
	I-480964	Salt Delivery 2016	R	3/28/2016			031756		
	10 5-70-350-33	Snow-Salt	Salt Delivery 2016		467.33				
	I-480965	Salt Delivery 2016	R	3/28/2016			031756		
	10 5-70-350-33	Snow-Salt	Salt Delivery 2016		808.25				
	I-480966	Salt Delivery 2016	R	3/28/2016			031756		
	10 5-70-350-33	Snow-Salt	Salt Delivery 2016		2,941.00				
	I-481852	Salt Delivery 2016	R	3/28/2016			031756		
	10 5-70-350-33	Snow-Salt	Salt Delivery 2016		1,743.00				6,783.38

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1902		BFA CONSULTANTS, INC.							
	I-2258	Inspections	R	3/28/2016			031757		
	18 5-70-480-21	Other Engineering Services	Inspections		616.25				616.25
2286		BUESCHER FRANKENBERG ASSOCIATE							
	I-5500-678-9	Wild Horse Creek Rd. Brid	R	3/28/2016			031758		
	18 5-70-470-64	Wild Hrse Crk Brdg #392 Design	Wild Horse Creek Rd.		2,426.48				2,426.48
0150		CDG ENGINEERS, INC.							
	I-0000016598	Strecker Brdg over Caulks	R	3/28/2016			031759		
	18 5-70-470-67	Strecker Rd Bridge Design	Strecker Brdg over		18,631.02				
	I-0000016703	Strecker Brdg over Caulks	R	3/28/2016			031759		
	18 5-70-470-67	Strecker Rd Bridge Design	Strecker Brdg over		12,202.97				30,833.99
0198		CITY OF CHESTERFIELD							
	I-IN077501-95	Salt	R	3/28/2016			031760		
	10 5-70-350-33	Snow-Salt	Salt		22,603.46				22,603.46
1591		CLEN INDUSTRIES, INC							
	I-20577	Dog Area Signs	R	3/28/2016			031761		
	10 5-40-266-00	Supplies-General	Dog Area Signs		113.77				113.77
0759		COCHRAN							
	I-12740	Wakefield Meadow	R	3/28/2016			031762		
	18 5-70-480-21	Other Engineering Services	Wakefield Meadow		226.25				
	I-12749	Melrose Sink Hole	R	3/28/2016			031762		
	18 5-70-480-21	Other Engineering Services	Melrose Sink Hole		5,949.50				
	I-3537	Consultant Services	R	3/28/2016			031762		
	18 5-70-470-65	Bouquet Rd Brdg #353 Design	Consultant Services		13,313.80				
	I-3548	Salt Storage Facility Eng	R	3/28/2016			031762		
	18 5-70-480-13	Salt Storage Facility Design	Salt Storage Facilit		2,650.00				22,139.55
2406		ENVIRONMENTAL RESEARCH CENTER							
	I-3248	Strecker Bridge	R	3/28/2016			031763		
	18 5-70-480-21	Other Engineering Services	Strecker Bridge		1,480.00				1,480.00
0654		GAEHLE CONTRACTING INC.							
	I-9806	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean Trash		380.00				
	I-9807	Emergency ROW Repairs	R	3/28/2016			031764		
	10 5-70-350-65	Emergency Road/ROW Repairs	Work on Sink Hole		3,836.46				
	I-9808	Emergency ROW Repairs	R	3/28/2016			031764		
	10 5-70-350-65	Emergency Road/ROW Repairs	Work on Melrose		4,473.02				
	I-9809	Tree Trimming	R	3/28/2016			031764		
	10 5-70-350-08	ROW Tree Trimming	Tree Trimming		1,952.00				
	I-9810	Emergency ROW Repairs	R	3/28/2016			031764		
	10 5-70-350-65	Emergency Road/ROW Repairs	Work on Melrose		1,256.00				
	I-9811	Parks & Trails Maint	R	3/28/2016			031764		

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0654		GAEHLE CONTRACTING INCCONT							
	I-9811	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean Beds @ AP		620.00				
	I-9812	Landscaping	R	3/28/2016			031764		
	10 5-70-350-05	ROW Landscaping	Cut Back Plants		515.00				
	I-9813	Traffic Control Signs	R	3/28/2016			031764		
	10 5-70-350-55	Traffic Control-Signs	Install Signs		175.50				
	I-9814	Tree Removal	R	3/28/2016			031764		
	10 5-70-350-06	ROW Tree Removal	Tree Removal		300.00				
	I-9815	Asphalt Patching	R	3/28/2016			031764		
	10 5-70-350-11	St Maint-Asphalt Patching	Cold Patch West Glen		195.84				
	I-9817	Traffic Control Signs	R	3/28/2016			031764		
	10 5-70-350-55	Traffic Control-Signs	Build Sign		160.00				
	I-9818	Install Light Head Taylor Rd	R	3/28/2016			031764		
	10 5-70-276-00	Traffic Signals/Street Lights	Install Light Head T		299.00				
	I-9819	Tree Removal	R	3/28/2016			031764		
	10 5-70-350-06	ROW Tree Removal	Tree Removal		135.00				
	I-9820	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Cut Grass LaSalle		685.00				
	I-9822	Community Garden Work	R	3/28/2016			031764		
	10 5-40-739-00	Community Garden	Community Garden Wor		2,054.25				
	I-9823	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean Trash		340.00				
	I-9825	Landscaping	R	3/28/2016			031764		
	10 5-70-350-05	ROW Landscaping	Cut Back Plants		852.50				
	I-9826	Snow & Ice Removal	R	3/28/2016			031764		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		4,747.50				
	I-9827	Snow Plow Homestead	R	3/28/2016			031764		
	20 2261	Homestead Estates Escrow	Snow Plow Homestead		240.00				
	I-9828	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Snow Plow Community		195.00				
	I-9829	Snow Removal CH Sidewalks	R	3/28/2016			031764		
	10 5-10-221-00	Maintenance - Grounds	Snow Removal CH Side		449.50				
	I-9830	Community Garden Work	R	3/28/2016			031764		
	10 5-40-739-00	Community Garden	Community Garden Wor		4,248.00				
	I-9831	Community Park Work	R	3/28/2016			031764		
	17 5-40-480-25	Community Park Trail PH1 Const	Install Conduit		2,393.85				
	I-9832	Community Park Work	R	3/28/2016			031764		
	17 5-40-480-25	Community Park Trail PH1 Const	Fill Hole for Condui		925.00				
	I-9833	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Install Rock CP		1,670.00				
	I-9834	Traffic Control Signs	R	3/28/2016			031764		
	10 5-70-350-55	Traffic Control-Signs	Install Sign		78.50				
	I-9835	Asphalt Patching	R	3/28/2016			031764		
	10 5-70-350-11	St Maint-Asphalt Patching	Cold Patch Pierside		353.52				
	I-9836	Emergency ROW Repairs	R	3/28/2016			031764		
	10 5-70-350-65	Emergency Road/ROW Repairs	Work on Melrose		300.75				
	I-9837	Parks & Trails Maint	R	3/28/2016			031764		

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0654		GAEHLE CONTRACTING INCCONT							
	I-9837	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Install Tent Al Fost		546.00				
	I-9838	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean Trees Bluffvie		303.00				
	I-9839	Tree Removal	R	3/28/2016			031764		
	10 5-70-350-06	ROW Tree Removal	Tree Removal		303.00				
	I-9840	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean RockHollow Tra		889.00				
	I-9841	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Install Dog Station		130.00				
	I-9842	Landscaping	R	3/28/2016			031764		
	10 5-70-350-05	ROW Landscaping	Clean Out Raingarden		857.50				
	I-9843	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Pick Up Lumber / Mul		253.50				
	I-9845	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean Trash		215.50				
	I-9846	Traffic Control Signs	R	3/28/2016			031764		
	10 5-70-350-55	Traffic Control-Signs	Reset Sign		78.50				
	I-9847	Landscaping	R	3/28/2016			031764		
	10 5-70-350-05	ROW Landscaping	Clean Out Raingarden		985.00				
	I-9848	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean Flower Beds		1,362.50				
	I-9849	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Install Playground C		3,588.52				
	I-9850	Traffic Control Signs	R	3/28/2016			031764		
	10 5-70-350-55	Traffic Control-Signs	Install Sign		78.50				
	I-9851	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Install Playground C		2,056.00				
	I-9852	Landscaping	R	3/28/2016			031764		
	10 5-70-350-05	ROW Landscaping	Install Mulch Rain G		401.25				
	I-9853	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean Trash		180.00				
	I-9855	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean Trash		220.00				
	I-9856	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean Trash		45.00				
	I-9857	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Install Playground C		1,158.00				
	I-9858	Asphalt Patching	R	3/28/2016			031764		
	10 5-70-350-11	St Maint-Asphalt Patching	Cold Patch McBride		1,433.23				
	I-9859	Abatements	R	3/28/2016			031764		
	10 5-50-263-00	Abatements	Pick Up Trash Glenco		183.00				
	I-9860	Tree Removal	R	3/28/2016			031764		
	10 5-70-350-06	ROW Tree Removal	Tree Removal		2,032.00				
	I-9861	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Clean Up Down Tree		305.00				
	I-9862	Parks & Trails Maint	R	3/28/2016			031764		

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0654	GAEHLE CONTRACTING INCCONT							
I-9862	Parks & Trails Maint	R	3/28/2016			031764		
10 5-40-350-01	Park Maintenance	Mulch Community Park		4,812.50				
I-9863	Tree Removal	R	3/28/2016			031764		
10 5-70-350-06	ROW Tree Removal	Clear Trees		2,280.00				
I-9864	Parks & Trails Maint	R	3/28/2016			031764		
10 5-40-350-01	Park Maintenance	Mulch Anniversary Pa		1,765.00				
I-9865	Parks & Trails Maint	R	3/28/2016			031764		
10 5-40-350-01	Park Maintenance	Clean Trash		60.00				
I-9866	Asphalt Patching	R	3/28/2016			031764		
10 5-70-350-11	St Maint-Asphalt Patching	Cold Patch Bent Ridg		1,139.40				
I-9867	Misc ROW	R	3/28/2016			031764		
10 5-70-350-09	Miscellaneous ROW	Install Rock in Sink		366.00				
I-9868	Traffic Control Signs	R	3/28/2016			031764		
10 5-70-350-55	Traffic Control-Signs	Install Sign		97.00				
I-9869	Parks & Trails Maint	R	3/28/2016			031764		
10 5-40-350-01	Park Maintenance	Install Dog Signs		194.00				
I-9870	Abatements	R	3/28/2016			031764		
10 5-50-263-00	Abatements	Remove Signs		234.00				
I-9871	Parks & Trails Maint	R	3/28/2016			031764		
10 5-40-350-01	Park Maintenance	Clear Tree off RockH		1,270.00				
I-9872	Abatements	R	3/28/2016			031764		
10 5-50-263-00	Abatements	Clean Up Car Acciden		113.50				
10 5-50-263-00	Abatements	Clean Up Car Acciden		1,000.00				
I-9873	Install Signs Wildwood Trail	R	3/28/2016			031764		
10 5-50-230-00	Miscellaneous	Install Signs Wildwo		127.00				
I-9874	Traffic Control Signs	R	3/28/2016			031764		
10 5-70-350-55	Traffic Control-Signs	Install Sign		157.00				
I-9875	Abatements	R	3/28/2016			031764		
10 5-50-263-00	Abatements	Repair Flood Damage		1,156.00				
I-9876	Community Garden Work	R	3/28/2016			031764		
10 5-40-739-00	Community Garden	Community Garden Wor		507.00				
I-9877	Parks & Trails Maint	R	3/28/2016			031764		
10 5-40-350-01	Park Maintenance	Mulch Pedestrian Bri		1,785.00				
I-9878	Parks & Trails Maint	R	3/28/2016			031764		
10 5-40-350-01	Park Maintenance	Install Mulch Glenco		2,100.00				
I-9879	Parks & Trails Maint	R	3/28/2016			031764		
10 5-40-350-01	Park Maintenance	Install Mulch Trails		2,760.00				
I-9880	Traffic Control Signs	R	3/28/2016			031764		
10 5-70-350-55	Traffic Control-Signs	Install Sign		65.00				
I-9881	Community Garden Work	R	3/28/2016			031764		
10 5-40-739-00	Community Garden	Community Garden Wor		663.00				
I-9882	Abatements	R	3/28/2016			031764		
10 5-50-263-00	Abatements	Repair Flood Damage		169.00				
I-9883	Parks & Trails Maint	R	3/28/2016			031764		
10 5-40-350-01	Park Maintenance	Clean Trash		75.00				
I-9884	Traffic Control Signs	R	3/28/2016			031764		
10 5-70-350-55	Traffic Control-Signs	Install Sign		488.56				
I-9885	Community Garden Work	R	3/28/2016			031764		

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0654		GAEHLE CONTRACTING INCCONT							
	I-9885	Community Garden Work	R	3/28/2016			031764		
	10 5-40-739-00	Community Garden	Community Garden Wor		667.04				
	I-9886	Paint Pipes in Rain Gardens	R	3/28/2016			031764		
	10 5-50-263-00	Abatements	Paint Pipes in Rain		222.20				
	I-9887	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Mulch Glencoe		390.00				
	I-9888	Landscaping	R	3/28/2016			031764		
	10 5-70-350-05	ROW Landscaping	Mulch Roundabout		1,057.50				
	I-9889	Cut Grass	R	3/28/2016			031764		
	10 5-70-350-02	ROW Roadside Mowing	Cut Grass		100.00				
	I-9890	Install Snapshot in CH Beds	R	3/28/2016			031764		
	10 5-10-221-00	Maintenance - Grounds	Install Snapshot in		160.00				
	I-9891	Landscaping	R	3/28/2016			031764		
	10 5-70-350-05	ROW Landscaping	Install Snapshot		180.00				
	I-9892	Parks & Trails Maint	R	3/28/2016			031764		
	10 5-40-350-01	Park Maintenance	Install Snapshot Bed		180.00				77,775.89
2362		GBA							
	I-47357	Bridge Inspections	R	3/28/2016			031772		
	18 5-70-480-21	Other Engineering Services	Bridge Inspections		7,000.00				7,000.00
1643		GO GREEN LAWN & LANDSCAPE							
	I-5563	Snow & Ice Removal	R	3/28/2016			031773		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		1,875.00				1,875.00
2284		HCI LIGHTING							
	I-US-3662	Luminaries	R	3/28/2016			031774		
	10 5-70-276-00	Traffic Signals/Street Lights	Luminaries		3,840.00				3,840.00
1331		HRGREEN, INC.							
	I-103594	Rte 109 Roundabout EB Ram	R	3/28/2016			031775		
	18 5-70-460-16	Rt 109 Rndabt Eastbnd 100 Dsgn	Route 109 Roundabout		9,209.17				
	I-103598	109 TIP Application	R	3/28/2016			031775		
	18 5-70-480-21	Other Engineering Services	109 TIP Application		4,982.00				14,191.17
0084		JUNEAU ASSOCIATES, INC.							
	I-5500-673-17	Fox Creek Bride Replaceme	R	3/28/2016			031776		
	18 5-70-470-60	Fox Creek Brdg #336 Rpl Design	Fox Creek Bride Repl		869.27				
	I-5500-679-5	Eatherton Brdg over Bonhm	R	3/28/2016			031776		
	18 5-70-470-66	Eatherton Rd Bridge Design	Eatherton Brdg over		816.98				
	I-5500-679-6	Eatherton Brdg over Bonhm	R	3/28/2016			031776		
	18 5-70-470-66	Eatherton Rd Bridge Design	Eatherton Brdg over		5,799.58				
	I-5602-621-17	Fox Creek Bride Replaceme	R	3/28/2016			031776		
	18 5-70-470-61	Woods Rd Brdg #348 Rpl Design	Woods Rd over Hamilt		1,827.86				
	I-5602-621-18	Fox Creek Bride Replaceme	R	3/28/2016			031776		
	18 5-70-470-61	Woods Rd Brdg #348 Rpl Design	Woods Rd over Hamilt		4,749.92				14,063.61

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0040		KELPE CONTRACTING, INC.							
	I-7977	Snow & Ice Removal	R	3/28/2016			031777		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		23,384.38				
	I-7995	Snow & Ice Removal	R	3/28/2016			031777		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		12,334.25				35,718.63
1025		KETTLE KORN							
	I-2016-5	Egg Hunt Kettle Korn	R	3/28/2016			031778		
	10 5-40-269-00	Supplies - Recreation	Egg Hunt Kettle Korn		866.70				866.70
0043		L. KRUPP CONSTRUCTION INC							
	I-2016-2	Snow & Ice Removal	R	3/28/2016			031779		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		1,600.00				
	I-2016-3	Snow & Ice Removal	R	3/28/2016			031779		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		1,345.00				
	I-2016-4	Snow & Ice Removal	R	3/28/2016			031779		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		1,395.00				
	I-2016-5	Snow & Ice Removal	R	3/28/2016			031779		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		1,052.50				5,392.50
0669		LEWIS RICE & FINGERSH L.C							
	I-1245419	General Matters	R	3/28/2016			031780		
	10 5-10-310-00	Attorney Fees	General Matters		3,675.00				
	I-1245420	Real Estate Fees	R	3/28/2016			031780		
	10 5-10-310-00	Attorney Fees	Real Estate Fees		249.00				
	I-1245422	Retainer	R	3/28/2016			031780		
	10 5-10-310-00	Attorney Fees	Retainer		5,300.00				
	I-1245423	Strecker Forest	R	3/28/2016			031780		
	10 5-10-315-00	Litigation Contingencies	Strecker Forest		1,274.00				
	I-1245424	Main Street Crossing	R	3/28/2016			031780		
	10 5-10-310-00	Attorney Fees	Main Street Crossing		710.50				11,208.50
1315		MORRISON LAW FIRM							
	I-2010583	Strecker Forest	R	3/28/2016			031781		
	10 5-10-315-00	Litigation Contingencies	Strecker Forest		2,176.00				2,176.00
1617		OATES ASSOCIATES ENGINEERING &							
	I-27681	Community Park Design Work	R	3/28/2016			031782		
	17 5-40-480-41	Community Park PH2 Const.	Community Park Desig		438.00				438.00
0998		OMNI TREE SERVICE, INC.							
	I-7852	Snow & Ice Removal	R	3/28/2016			031783		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		1,575.00				
	I-7853	Snow & Ice Removal	R	3/28/2016			031783		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		4,020.00				
	I-7865	Snow & Ice Removal	R	3/28/2016			031783		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		2,025.00				
	I-7866	Tree Trimming	R	3/28/2016			031783		

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0998		OMNI TREE SERVICE, INCCONT							
	I-7866	Tree Trimming	R	3/28/2016			031783		
	10 5-70-350-08	ROW Tree Trimming	Tree Trimming		1,230.00				
	I-7875	Snow & Ice Removal	R	3/28/2016			031783		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		2,730.00				11,580.00
2407		PROGRESSIVE WASTE SOLUTIONS, I							
	I-2111835578	Flood Dumpsters	R	3/28/2016			031784		
	10 5-50-263-00	Abatements	Emergency Dumpsters		975.00				975.00
1339		SCHMITTEL'S NURSERY							
	I-126994	Landscape Dmg Rt 109	R	3/28/2016			031785		
	10 5-70-350-05	ROW Landscaping	Landscape Dmg Rt 109		3,070.00				3,070.00
0058		ST LOUIS COUNTY TREASURER-							
	I-83133	Police Service Contract	R	3/28/2016			031786		
	10 5-60-350-00	Contractual Services	Police Service Contr		258,667.48				258,667.48
2113		ANGELA STAEHLING							
	I-0027	Plein Air Design Work	R	3/28/2016			031787		
	10 5-40-340-00	Consultant Costs	Plein Air Design Wor		925.00				
	I-0028	Develop Website Banner	R	3/28/2016			031787		
	10 5-50-340-00	Consultant Costs	Develop Website Bann		100.00				1,025.00
0419		T. HILL CONSTRUCTION INC							
	I-2870	Snow & Ice Removal	R	3/28/2016			031788		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		5,130.00				5,130.00
2251		COURTNEY TALLMAN, CSR, RPR							
	I-03-21-16	BOA Reporter	R	3/28/2016			031789		
	10 5-50-350-00	Contractual Services	BOA Reporter		133.75				133.75
0689		TERRASPEC							
	I-AlFoster JanFeb16	Al Foster Trail	R	3/28/2016			031790		
	17 5-40-480-11	Al Foster Trailhead Imp	Al Foster Trail		17,505.00				
	I-BluffView JanFeb16	Design, Plan, Eng, Survey	R	3/28/2016			031790		
	10 5-50-340-00	Consultant Costs	Design, Plan, Eng, S		2,945.00				
	I-Centaur JanFeb 16	Design, Plan, Eng, Survey	R	3/28/2016			031790		
	10 5-50-340-00	Consultant Costs	Design, Plan, Eng, S		3,260.00				
	I-HistMrk JanFeb16	Historic Marker Services	R	3/28/2016			031790		
	10 5-50-350-00	Contractual Services	Historic Marker Serv		3,928.00				
	I-OldState JanFeb16	Consulting Services	R	3/28/2016			031790		
	10 5-40-350-00	Contractual Services	Consulting Services		4,991.00				
	I-RockHlw JanFeb16	Consulting Services	R	3/28/2016			031790		
	10 5-40-350-00	Contractual Services	Consulting Services		2,975.00				
	I-Stonemill JanFeb16	Landscape Review	R	3/28/2016			031790		
	10 5-50-350-00	Contractual Services	Landscape Review		570.00				36,174.00

VENDOR SET: 01 City of Wildwood
BANK: 1010 Commerce Bank-Operating
DATE RANGE: 2/23/2016 THRU 3/28/2016

VENDOR	I.D.	NAME	STATUS	CHECK DATE	AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
1700		TSI TECHNOLOGY SOLUTIONS							
	I-718201	Locates	R	3/28/2016			031791		
	10 5-70-276-00	Traffic Signals/Street Lights	Locates		220.00				
	I-718202	Locates	R	3/28/2016			031791		
	10 5-70-276-00	Traffic Signals/Street Lights	Locates		220.00				
	I-718207	Locates	R	3/28/2016			031791		
	10 5-70-276-00	Traffic Signals/Street Lights	Locates		220.00				
	I-718293	Locates	R	3/28/2016			031791		
	10 5-70-276-00	Traffic Signals/Street Lights	Locates		220.00				
	I-718637	Locates	R	3/28/2016			031791		
	10 5-70-276-00	Traffic Signals/Street Lights	Locates		220.00				
	I-718643	Locates	R	3/28/2016			031791		
	10 5-70-276-00	Traffic Signals/Street Lights	Locates		600.00				1,700.00
0278		WESTFALL HAULING, INC.							
	I-3185	Snow & Ice Removal	R	3/28/2016			031792		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		2,510.00				2,510.00
1097		WINNER'S POINT LANDSCAPING, IN							
	I-825	Snow & Ice Removal	R	3/28/2016			031793		
	10 5-70-350-31	Snow and Salt Removal	Snow & Ice Removal		3,392.50				3,392.50

* * T O T A L S * *	NO		INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	147		768,222.82	0.00	767,722.82
HAND CHECKS:	0		0.00	0.00	0.00
DRAFTS:	4		37,265.31	0.00	37,265.31
EFT:	0		0.00	0.00	0.00
NON CHECKS:	0		0.00	0.00	0.00
VOID CHECKS:	1	VOID DEBITS	0.00		
		VOID CREDITS	500.00CR	500.00CR	0.00

TOTAL ERRORS: 0

** G/L ACCOUNT TOTALS **

G/L ACCOUNT	NAME	AMOUNT
10 2050	Employee W/holding Payable	1,479.68
10 2120	Federal/FICA Withholding	23,209.88
10 2130	State Withholding	4,670.00
10 2140	Plan 457 Withholding	4,592.32
10 2212	Due to State of Missouri	2,745.96
10 2214	Due to St. Louis County	675.51
10 2215	Due to STL County DWI JS	35.00

VENDOR SET: 01 City of Wildwood
BANK: 1010 Commerce Bank-Operating
DATE RANGE: 2/23/2016 THRU 3/28/2016

** G/L ACCOUNT TOTALS **

G/L	ACCOUNT	NAME	AMOUNT
10	2216	Due to STL County - County PD	40.00
10	4-02-936-00	P & Z Permits/Fees	350.00
10	4-07-988-00	Dog Park Fees	10.00
10	5-10-120-00	FICA & Medicare	2,292.33
10	5-10-140-00	Employee Benefits (125)	7,172.62
10	5-10-142-00	Insurance (Life & Disability)	234.46
10	5-10-180-00	Workers Compensation	20.00
10	5-10-201-00	Community Relations	72.05
10	5-10-204-00	Dues/Memberships	210.00
10	5-10-208-00	Equipment Leasing	1,396.13
10	5-10-210-00	Facilities	198.61
10	5-10-211-00	Records Storage	506.48
10	5-10-220-00	Maintenance-Building	6,043.81
10	5-10-221-00	Maintenance - Grounds	609.50
10	5-10-230-00	Miscellaneous	141.18
10	5-10-250-00	Internet Connection	180.47
10	5-10-262-00	Service Contracts/Rental	1,274.43
10	5-10-264-00	Meetings & Special Events	459.00
10	5-10-266-00	Supplies-General	1,801.24
10	5-10-268-00	Supplies-Office	1,597.54
10	5-10-270-00	Training	125.00
10	5-10-274-00	Travel	174.87
10	5-10-282-00	Utilities-Telephone	976.58
10	5-10-310-00	Attorney Fees	20,156.00
10	5-10-315-00	Litigation Contingencies	5,517.08
10	5-10-345-00	City Newsletter	9,103.71
10	5-10-350-00	Contractual Services	1,836.45
10	5-20-120-00	FICA & Medicare	853.10
10	5-20-140-00	Employee Benefits (125)	1,158.72
10	5-20-142-00	Insurance (Life & Disability)	92.62
10	5-20-180-00	Workers Compensation	5.00
10	5-20-206-00	Election Expense	8,755.96
10	5-20-242-00	Printing Expense	220.00
10	5-20-244-00	Public Notices	84.68
10	5-20-270-00	Training	100.00
10	5-20-282-00	Utilities-Telephone	270.89
10	5-20-713-00	Document Shred/Elec Recycle Ev	275.00
10	5-30-120-00	FICA & Medicare	886.49
10	5-30-140-00	Employee Benefits (125)	2,597.30
10	5-30-142-00	Insurance (Life & Disability)	92.84
10	5-30-230-00	Miscellaneous	11.44
10	5-30-243-00	Prisoner Expense	150.00
10	5-30-250-00	Internet Connection	494.02
10	5-30-282-00	Utilities-Telephone	164.79
10	5-40-120-00	FICA & Medicare	639.45
10	5-40-140-00	Employee Benefits (125)	3,124.72

VENDOR SET: 01 City of Wildwood
BANK: 1010 Commerce Bank-Operating
DATE RANGE: 2/23/2016 THRU 3/28/2016

** G/L ACCOUNT TOTALS **

G/L ACCOUNT	NAME	AMOUNT
10 5-40-142-00	Insurance (Life & Disability)	142.90
10 5-40-180-00	Workers Compensation	7.00
10 5-40-204-00	Dues/Memberships	425.00
10 5-40-208-00	Equipment Leasing	1,981.00
10 5-40-220-00	Maintenance - Building	172.00
10 5-40-224-00	Maintenance-Vehicles	43.97
10 5-40-230-00	Miscellaneous	242.81
10 5-40-242-00	Printing	264.00
10 5-40-264-00	Meetings & Special Events	323.00
10 5-40-266-00	Supplies-General	369.47
10 5-40-268-00	Supplies - Office	21.58
10 5-40-269-00	Supplies - Recreation	4,053.21
10 5-40-282-00	Utilities-Telephone	271.97
10 5-40-340-00	Consultant Costs	925.00
10 5-40-350-00	Contractual Services	10,611.00
10 5-40-350-01	Park Maintenance	30,573.52
10 5-40-715-00	Founders Day	900.00
10 5-40-736-00	Farmers Market	3,201.76
10 5-40-739-00	Community Garden	9,579.29
10 5-50-120-00	FICA & Medicare	2,830.61
10 5-50-140-00	Employee Benefits (125)	9,033.82
10 5-50-142-00	Insurance (Life & Disability)	368.20
10 5-50-180-00	Workers Compensation	619.00
10 5-50-208-00	Equipment Leasing	906.93
10 5-50-224-00	Maintenance-Vehicles	114.84
10 5-50-230-00	Miscellaneous	197.00
10 5-50-242-00	Printing Expense	84.13
10 5-50-244-00	Public Notices	287.68
10 5-50-250-00	Internet Connection	45.00
10 5-50-263-00	Abatements	4,052.70
10 5-50-268-00	Supplies-Office	51.60
10 5-50-270-00	Training	39.00
10 5-50-282-00	Utilities-Telephone	1,052.25
10 5-50-293-00	Computer System Under $5K	579.91
10 5-50-340-00	Consultant Costs	7,230.00
10 5-50-350-00	Contractual Services	7,721.75
10 5-50-740-00	Planning Commission	1,402.55
10 5-50-757-00	Strecker Forest Envirn. Assmnt	4,790.00
10 5-60-285-00	Utilities - Cable TV	66.98
10 5-60-350-00	Contractual Services	258,667.48
10 5-60-350-02	Contractual Cleaning	448.00
10 5-70-120-00	FICA & Medicare	1,961.13
10 5-70-140-00	Employee Benefits (125)	7,668.53
10 5-70-142-00	Insurance (Life & Disability)	222.63
10 5-70-180-00	Workers Compensation	364.00
10 5-70-204-00	Dues/Memberships	20.00

VENDOR SET: 01 City of Wildwood
BANK: 1010 Commerce Bank-Operating
DATE RANGE: 2/23/2016 THRU 3/28/2016

** G/L ACCOUNT TOTALS **

	G/L ACCOUNT	NAME	AMOUNT
10	5-70-208-00	Equipment Leasing	906.93
10	5-70-224-00	Maintenance-Vehicles	144.04
10	5-70-240-00	Postage	18.86
10	5-70-242-00	Printing Expense	20.12
10	5-70-266-00	Supplies-General	142.00
10	5-70-268-00	Supplies-Office	13.19
10	5-70-270-00	Training	12.00
10	5-70-276-00	Traffic Signals/Street Lights	5,839.00
10	5-70-282-00	Utilities-Telephone	527.85
10	5-70-293-00	Computer System Under $5K	1,243.51
10	5-70-350-02	ROW Roadside Mowing	100.00
10	5-70-350-05	ROW Landscaping	7,918.75
10	5-70-350-06	ROW Tree Removal	5,050.00
10	5-70-350-08	ROW Tree Trimming	3,182.00
10	5-70-350-09	Miscellaneous ROW	366.00
10	5-70-350-11	St Maint-Asphalt Patching	3,121.99
10	5-70-350-31	Snow and Salt Removal	69,116.13
10	5-70-350-33	Snow-Salt	29,386.84
10	5-70-350-55	Traffic Control-Signs	1,378.56
10	5-70-350-65	Emergency Road/ROW Repairs	9,866.23
		*** FUND TOTAL ***	633,173.11
17	5-40-480-11	Al Foster Trailhead Imp	19,226.44
17	5-40-480-25	Community Park Trail PH1 Const	33,936.05
17	5-40-480-33	Ped Brg over 100 Eath. Des/Eng	1,268.48
17	5-40-480-41	Community Park PH2 Const.	888.00
17	5-70-480-34	Rural Internet Access	1,125.00
		*** FUND TOTAL ***	56,443.97
18	5-70-460-07	Other Roadway Imp Projects	20,600.00
18	5-70-460-16	Rt 109 Rndabt Eastbnd 100 Dsgn	9,209.17
18	5-70-470-60	Fox Creek Brdg #336 Rpl Design	869.27
18	5-70-470-61	Woods Rd Brdg #348 Rpl Design	6,577.78
18	5-70-470-64	Wild Hrse Crk Brdg #392 Design	2,426.48
18	5-70-470-65	Bouquet Rd Brdg #353 Design	13,313.80
18	5-70-470-66	Eatherton Rd Bridge Design	6,616.56
18	5-70-470-67	Strecker Rd Bridge Design	30,833.99
18	5-70-480-13	Salt Storage Facility Design	2,650.00
18	5-70-480-21	Other Engineering Services	20,254.00
		*** FUND TOTAL ***	113,351.05
20	2230	P & Z Escrow	1,500.00
20	2261	Homestead Estates Escrow	240.00
20	5-10-230-00	Miscellaneous	280.00
		*** FUND TOTAL ***	2,020.00

	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
VENDOR SET: 01 BANK: 1010 TOTALS:	152	804,988.13	0.00	804,988.13
BANK: 1010 TOTALS:	152	804,988.13	0.00	804,988.13

VENDOR SET: 01 City of Wildwood
BANK: 1056 TCS 2012 Bond Fund Cash
DATE RANGE: 2/23/2016 THRU 3/28/2016

VENDOR I.D.	NAME	STATUS	CHECK DATE	AMOUNT	DISCOUNT	CHECK NO	CHECK STATUS	CHECK AMOUNT
0383	CITY OF WILDWOOD							
I-2015-1	2015 Admin Fee	R	2/29/2016			001282		
15 2210	Due to Other Funds	2015 Admin Fee		6,500.00				6,500.00

* * T O T A L S * *	NO			INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
REGULAR CHECKS:	1			6,500.00	0.00	6,500.00
HAND CHECKS:	0			0.00	0.00	0.00
DRAFTS:	0			0.00	0.00	0.00
EFT:	0			0.00	0.00	0.00
NON CHECKS:	0			0.00	0.00	0.00
VOID CHECKS:	0	VOID DEBITS	0.00			
		VOID CREDITS	0.00	0.00	0.00	

TOTAL ERRORS: 0

** G/L ACCOUNT TOTALS **

G/L ACCOUNT	NAME	AMOUNT
15 2210	Due to Other Funds	6,500.00
	*** FUND TOTAL ***	6,500.00

	NO	INVOICE AMOUNT	DISCOUNTS	CHECK AMOUNT
VENDOR SET: 01 BANK: 1056 TOTALS:	1	6,500.00	0.00	6,500.00
BANK: 1056 TOTALS:	1	6,500.00	0.00	6,500.00
REPORT TOTALS:	162	810,988.13	0.00	811,488.13

SELECTION CRITERIA

VENDOR SET: 01-City of Wildwood
VENDOR: ALL
BANK CODES: All
FUNDS: Exclude: 16

CHECK SELECTION

CHECK RANGE: 000000 THRU 999999
DATE RANGE: 2/23/2016 THRU 3/28/2016
CHECK AMOUNT RANGE: 0.00 THRU 999,999,999.99
INCLUDE ALL VOIDS: YES

PRINT OPTIONS
SEQUENCE: CHECK NUMBER

PRINT TRANSACTIONS: YES
PRINT G/L: YES
UNPOSTED ONLY: NO
EXCLUDE UNPOSTED: NO
MANUAL ONLY: NO
STUB COMMENTS: NO
REPORT FOOTER: NO
CHECK STATUS: NO
PRINT STATUS: * - All

WILDWOOD

Recommendation Report
<<< Site Development Plan Package >>>
City of Wildwood Planning and Zoning Commission
March 21, 2016 Executive Session

Petitioner:	**City of Wildwood, Missouri c/o Department of Planning and Parks**
Zoning District(s):	PS Park and Scenic District
Location:	Northwest quadrant of State Route 100 and State Route 109
Locator Number:	23V410423
Ward:	One
Tract Size:	66.1 acres
Property Owner:	City of Wildwood, Missouri
Planning and Commission Meeting:	March 21, 2016
Nature of Request:	Approval of the Site Development Plan (SDP) for the development of an approximately 3,200 foot long connector roadway within the City of Wildwood's community park, which also includes a companion trail, limited parking, and the preparation of the Great Meadow Area for future use.

Introduction:

The Department of Planning and Parks is presenting to the Planning and Zoning Commission a Site Development Plan (SDP) for the construction of an approximately 3,200 foot long connector roadway within the City of Wildwood's community park, which also includes a companion trail, limited parking, and the preparation of the Great Meadow Area for future use. The Department of Planning and Parks, which has overseen the development of this plan set for this purpose, is submitting it to the Planning and Zoning Commission for its consideration and action, given all items necessary for its construction are now in place.

Current Request:

The Department of Planning and Parks is presenting to the Planning and Zoning Commission a Site Development Plan (SDP) for the construction of an approximately 3,200 foot long connector roadway within the City of Wildwood's community park, which also includes a companion trail, limited parking, and the preparation of the Great Meadow Area for future use. This plan set has been under development, since Phase One of the community park project began in September 2014. With Phase One now completed, the need for this additional access point to State Route 109 has become more apparent and necessary.

Beginning approximately one (1) year ago, the Department started discussions with the project engineer and the Planning/Economic Development/Parks Committee of City Council on the need to prioritize the development of an access roadway from the Phase One Area of community park to State Route 109, and, therefore, not be solely dependent upon ingress and egress to this property from State Route 100. In

fact, as Phase One was under development, excess fill from that area was stockpiled on the property, knowing it would be needed to complete this future access roadway, which was indicated on the approved Concept Plan for this park site. The pre-planning of this phase of community park was acknowledged by the City Council, its committee on park matters, and indicated in the approved 5-Year Capital Improvement Plan for a number of years. The pre-planning of this phase of the park also led to a successful grant application to the St. Louis County Municipal Park Grant Commission, which awarded to the City of Wildwood four hundred thousand dollars ($400,000.00) toward its construction.

Critical in this design is the provision of access to State Route 109 for users, thereby reducing the current dependence on the State Route 100 curb cut. This connection between these two (2), major State-maintained highways in Wildwood will allow safer access to the park and its facilities. Also, with the installation of the roadway, a companion trail system will be constructed that will allow for pedestrian, runners, bicyclists, and others to connect between the park site and the surrounding residential subdivisions and State Route 109. Along with these improvements, parking spaces are to be provided in the vicinity of the Great Meadow Area, while this special section of the park will begin undergoing preparation to become the centerpiece of the facility's active and passive open space.

At the September 2015 meeting of the Planning/Economic Development/Parks Committee (PEP), the Department presented these plan sheets to its members for consideration and action. The Committee granted a favorable recommendation at this meeting, and the City Council concurred thereafter at its meeting on January 11, 2016. As a point of reference, this project is funded for 2016. Again, given the popularity of the community park, this connector roadway and companion trail will be extensively used and reflects what the community and users have identified as a needed addition.

1. The roadway will be approximately 3,200 feet in total length.
2. The roadway will be twenty (20) to twenty-seven (27) feet in width and have two (2), six (6) foot wide drainage swales on either side of it.
3. The drainage swale on the eastern side of the roadway will provide separation for the proposed ten (10) foot wide, multiple-use trail that will connect to the existing facility in Phase One of the park and the new Pond-Grover Loop Road.
4. The roadway will provide a limited number of parking spaces (12), at the Great Meadow Area of the park.
5. The roadway will have a section of grade at ten (10) percent between Stations 24 and 27.
6. The connection of this roadway at Pond-Grover Loop Road will be affected by a water line of the Missouri American Water Company.

The engineer provided a cost estimate for this project, which was $636,000.00, and included an estimate for the relocation of a waterline near the Pond-Grover Loop Road. The actual cost of the roadway and trail (from the bidding process), minus the waterline relocation and contingencies, is just over four hundred thousand dollars ($400,000.00). All components of this project will not exceed seven hundred

thousand dollars ($700,0000.00) in cost (the City Council has dedicated three hundred thousand dollars ($300,000.00) to this project for 2016 to cover the expenditures over and above the amount of funding provided by the aforementioned grant).

Recommendation:

The Planning and Zoning Commission members have reviewed the Site Development Plan (SDP) that has been submitted for its review and action. This Commission is supportive of this approximately 3,200 foot long access roadway and companion trail, which includes the preparation of the Great Meadow Area as well. This support is premised on a number of reasons that include these items:

1. The roadway/trail connection is needed for all users at this time. This additional point of access into and out of the park will improve safety, while allowing pedestrians and other non-vehicular traffic access into the facility, which is currently not available along State Route 100.
2. The trail component provides another option for all users, in this very popular recreation corridor.
3. This project will add more useable acreage and access to it for the residents of Wildwood and visitors to this wonderful recreational asset.
4. The design of these improvements is consistent with the conditions of the area and environmentally sensitive by limiting its impact and overall site disturbance (only twenty-eight (28) trees are to be removed).
5. The design of these improvements requires limited assets for its maintenance and upkeep.
6. The benefits of active recreational facilities are plentiful and meet many of the recommendations of the City's *Action Plan for Parks and Recreation* – 2007 in regards to promoting facilities to encourage healthy lifestyles for residents of the City of Wildwood.

Summary and Conditions:

The Planning and Zoning Commission has completed its review of the aforementioned Site Development Plan (SDP) and related items and determined them to be in compliance with the requirements for the development of them in the City's community park area. Therefore, based upon the analysis provided above in this report, the Planning and Zoning Commission hereby grants its approval of this Site Development Plan for the proposed trail project.

Vote of the Commission:

Approval of the Site Development Plan (SDP) and related items by a vote of 7 to 0 by the Planning and Zoning Commission at its March 21, 2016 Executive Session.

Attachments And Enclosures:

Attachment A –Site Development Plan (SDP) and Related Items
Attachment B – Background Information

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ST. LOUIS	19	1
POND GROVER LOOP ROAD	MISSOURI			

WILDWOOD COMMUNITY PARK - PHASE 2

(POND GROVER LOOP ROAD EXTENSION)

WILDWOOD, MO
ST. LOUIS COUNTY

LEGEND

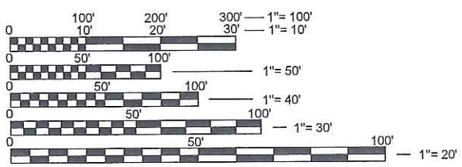
EX	NEW		EX	NEW	
		SIGN (TRAFFIC)			ELECTRIC BOX
		SIGN (ADVERTISEMENT)			MAILBOX
		TELEPHONE / POWER POLE			CLEANOUT
		LIGHT POLE			AREA INLET
		ANCHOR POLE			CATCH BASIN
		GUY WIRE			CURB INLET
		FIRE HYDRANT			MANHOLE
GV	GV	GAS VALVE			TRAFFIC SIGNAL BOX
WV	WV	WATER VALVE			TRAFFIC SIGNAL
EM	EM	ELECTRIC METER			HANDHOLE
GM	GM	GAS METER			CONTROL POINT
T	T	TELEPHONE BOX			BENCHMARK

LINETYPES

EX		NEW
W	WATER LINE	W
G	GAS LINE	G
T	TELEPHONE LINE	T
OE	OVERHEAD ELECTRIC LINE	OE
E	ELECTRIC LINE	E
FO	FIBER OPTIC LINE	FO
	STORM SEWER	
	SANITARY SEWER (GRAVITY)	
FM	SANITARY SEWER (FORCE MAIN)	FM
x	FENCE LINE	x
	TREE LINE	
	LIMITS OF CONST	

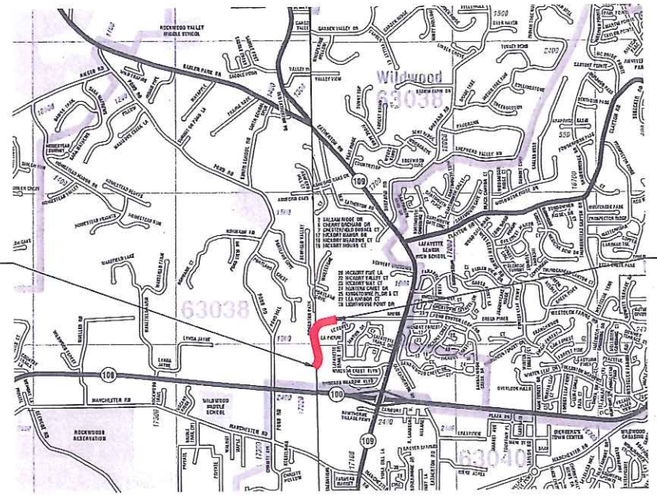
SCALE IN FEET

PLAN	1" = 20'
PROFILE HORIZ	1" = 20'
PROFILE VERT	1" = 5'
CROSS SECTION HORIZ	1" = 10'
CROSS SECTION VERT	1" = 5'



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

MISSOURI ONE CALL SYSTEM
1-800-344-7483 (DIG-RITE)
OR 811



LOCATION MAP
SCALE 1" = 2,000'

LENGTH OF PROJECT = 1,880 FEET (0.356 MILES)

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES, ABBREVIATIONS & COMMITMENTS
3	TYPICAL SECTIONS
4	REMOVAL AND EROSION CONTROL SHEET
5 - 8	PLAN & PROFILE SHEETS
9 - 12	CONSTRUCTION DETAILS
13 - 19	CROSS SECTIONS

AGENCY RESPONSIBLE FOR LETTING

APPROVED _____ _____
City of Wildwood, Director of Planning and Parks — Date

The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

CITY OF WILDWOOD
183 PLAZA DRIVE
WILDWOOD, MO 63040
Phone: 636.458.0440
Email: joe@cityofwildwood.com

STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER

Thomas L Cissell DATE: 12/30/15

THOMAS LEE CISSELL
MO P.E. NO. 2002016635
EXPIRES 12/31/2016

OATES ASSOCIATES
Engineering + Architecture

COLLINSVILLE
100 Lanter Court, Suite 1
Collinsville, IL 62234
tel 618.345.2200

BELLEVILLE
20 E. Main Street
Belleville, IL 62220
tel 618.416.4688

ST. LOUIS
720 Olive, Suite 700
St. Louis, MO 63101
tel 314.588.8381

www.oatesassociates.com
MISSOURI DESIGN FIRM LICENSE NO.: 001166

EXPIRES: 04/30/2017

12045.005

GENERAL NOTES

UTILITIES

1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED TO BE APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. MISSOURI LAW REQUIRES A MINIMUM 48-HOUR NOTICE TO ALL UTILITY COMPANIES BEFORE DIGGING. FIELD LOCATIONS OF UNDERGROUND FACILITIES MAY BE OBTAINED BY CALLING THE ONE-CALL SYSTEM IN MISSOURI AT 1-800-344-7483 AND PROVIDING 48 HOURS ADVANCE NOTICE. NON-J.U.L.I.E MEMBERS MUST BE NOTIFIED INDIVIDUALLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED BELOW.

2. ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER. ALL ROADSIDE OBJECTS (UTILITY POLES, FIRE HYDRANTS, SIGNS, ETC.) SHALL BE RELOCATED TO PROVIDE A MINIMUM OF 1.5 FEET CLEARANCE, MEASURED FROM THE FACE OF CURB TO THE NEAR EDGE OF THE OBJECT.

3. THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. ALL ARE MEMBERS OF MISSOURI ONE CALL, UNLESS NOTED OTHERWISE.

METROPOLITAN ST. LOUIS SEWER DISTRICT
2350 MARKET STREET
ST .LOUIS, MO. 63103
314-768-6200

LACLEDE GAS COMPANY
6400 GRAHAM ROAD
ST. LOUIS, MO. 63134
314-522-2297

AT&T
402 NORTH THIRD STREET
ST. CHARLES, MO. 63301
606-949-1313

MISSOURI-AMERICAN WATER COMPANY
727 CRAIG ROAD
ST. LOUIS, MO. 63141
314-996-2396

CHARTER COMMUNICATIONS
#815 CHARTER COMMONS
MANCHESTER, MO. 63017
636-220-2174

AMEREN UE
12121 DORSETT ROAD
MARYLAND HEIGHTS, MO. 63043
P.O. BOX 66149, MC 657
314-344-9504

THIS UTILITY INFORMATION REPRESENTS THE BEST INFORMATION AVAILABLE TO THE LOCAL AGENCY AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN PREPARING HIS/HER BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCE CAUSED BY SAME.

4. PRIOR TO TREE REMOVAL, THE CONTRACTOR SHALL POTHOLE THE EXISTING WATER MAIN LOCATED AT STATION 31+55 TO CHECK DEPTH. THIS INFORMATION SHALL BE RELAYED TO THE ENGINEER TO DETERMINE IF THE WATER MAIN WILL NEED TO BE RELOCATED. THE CONTRACTOR SHALL COOPERATE WITH THE MISSOURI AMERICAN WATER MAIN RELOCATION OPERATION AND FACTOR INTO THE SEQUENCE OF CONSTRUCTION OPERATIONS. THE COST OF POTHOLING AND COOPERATION SHALL BE INCLUDED IN THE COST OF THE PROJECT.

GENERAL CONSTRUCTION

5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.

6. IN CASE OF CONFLICT BETWEEN THE CONSTRUCTION PLANS AND THE RIGHT OF WAY PLANS, THE RIGHT OF WAY PLANS SHALL TAKE PRECEDENCE IN MATTERS CONCERNING RIGHT OF WAY AND EASEMENTS. THE CONSTRUCTION PLANS SHALL TAKE PRECEDENCE IN MATTERS CONCERNING CONSTRUCTION ITEMS.

7. THE CONTRACTOR SHALL STAGE ALL WORK IN SUCH A WAY AS TO MAINTAIN INGRESS AND EGRESS TO ALL ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

8. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

9. THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH OR SOD AS SHOWN ON PLANS ALL EARTH SURFACES DISTURBED BY CONSTRUCTION. FERTILIZER, SEEDING AND MULCH OR SOD WITHIN THE CONSTRUCTION LIMITS WILL BE PAID FOR AS PROVIDED IN THE CONTRACT. FERTILIZER, SEEDING AND MULCH OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.

10. WHERE TREE REMOVAL CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CUT THE TREE OFF AT THE GROUND LINE AND GRIND THE STUMP AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT LUMP SUM PRICE.

11. ALL EXISTING ROADWAY FEATURES INCLUDING, BUT NOT LIMITED TO, PAVEMENT, CURB, SIDEWALK, DRIVEWAY PAVEMENT, CULVERTS, HEADWALLS, RIPRAP, FENCING, RETAINING WALLS, WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR UNLESS NOTED OTHERWISE ON THE PLANS. ALL FEATURES WHICH ARE TO BE REMOVED AND FOR WHICH THERE IS NO SPECIFIC CALLOUT, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT AND THE COST OF THIS REMOVAL WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR THE VARIOUS REMOVAL ITEMS INCLUDED IN THE CONTRACT.

12. ALL TRAFFIC SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS SHALL BE REMOVED AND ERECTED AT TEMPORARY LOCATIONS AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. AS SOON AS CONSTRUCTION OPERATIONS WILL ALLOW, ALL SIGNS SHALL BE PERMANENTLY RELOCATED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.

13. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED BY THE GENERAL CONTRACTOR AND REPLACED WITH SUITABLE MATERIAL AS APPROVED BY THE ENGINEER. THE COST TO REMOVE AND REPLACE UNSUITABLE MATERIAL WILL BE CONSIDERED AN UNFORSEEN CONDITION AND WILL BE PAID FOR AS AN AGREED PRICE OR ON A TIME AND MATERIAL BASIS.

14. FULL DEPTH SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST FOR REMOVAL OF IMPROVEMENTS.

15. PROVIDE THE NECESSARY SIGNS AND BARRICADES WHILE WORKING THROUGHOUT THE CONSTRUCTION PERIOD INCLUDING PLACING BARRICADES AT THE PROJECT ENTRANCE TO PREVENT PUBLIC ENTRY. ALL MATERIAL PILES, EQUIPMENT, OPEN EXCAVATIONS OR THEIR OBSTRUCTIONS OR HAZARDS TO MOTORISTS OR PEDESTRIANS SHALL BE ENCLOSED BY FENCES OR PROTECTED BY BARRICADES.

PAVING

16. THE CONTRACTOR SHALL NOTE THE LOCATION OF ALL MANHOLE AND VALVE COVER FRAMES AND LIDS LOCATED WITHIN RESURFACING LIMITS. APPROPRIATE CARE SHALL BE TAKEN TO PROTECT THESE ITEMS DURING MILLING OPERATIONS.

DRAINAGE

17. CULVERT INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE END OF THE FLARED END. THE STORM SEWER SLOPES SHOWN ON THE PLANS ARE THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF STORM SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE.

18. ALL DRAINAGE STRUCTURES CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT, SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS OR FOREIGN MATTER AT THE END OF EACH WORKING DAY AND AT THE TIME OF FINAL INSPECTION. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT FOR THE VARIOUS DRAINAGE STRUCTURE ITEMS INCLUDED.

PAVEMENT MARKING

19. THE PAVEMENT MARKING LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. PROPOSED CHEVRONS AND SOLID CENTERLINE STRIPING SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER, IF NECESSARY, TO MATCH FIELD CONDITIONS.

APPROXIMATE SYMBOLS & ABBREVIATIONS

20. THE FOLLOWING SYMBOLS AND ABBREVIATIONS ARE USED THROUGHOUT THE PLANS:

AD	ALGEBRAIC DIFFERENCE IN GRADE
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION
BVCS	BEGINNING OF VERTICAL CURVE STATION
BO	BY OTHERS (USED IN CONJUNCTION WITH TBA & TBR)
CONSTR	CONSTRUCTION
CP	CONTROL POINT
ESMT	EASEMENT
ELEV	ELEVATION
EVCE	END OF VERTICAL CURVE ELEVATION
EVCS	END OF VERTICAL CURVE STATION
FES	FLARED END SECTION
K	LENGTH OF VERTICAL CURVE PER PERCENT GRADE DIFFERENCE
ME	MATCH EXISTING
N/F	NOW OR FORMERLY
PVI	POINT OF VERTICAL INTERSECTION
PVC	POLYVINYL CHLORIDE PIPE
TCE	TEMPORARY CONSTRUCTION EASEMENT
TUP	TEMPORARY USE PERMIT
TBA	TO BE ADJUSTED
TBRL	TO BE RELOCATED
TYP	TYPICAL
W	WIDTH

COMMITMENTS

NONE AT THIS TIME

STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER

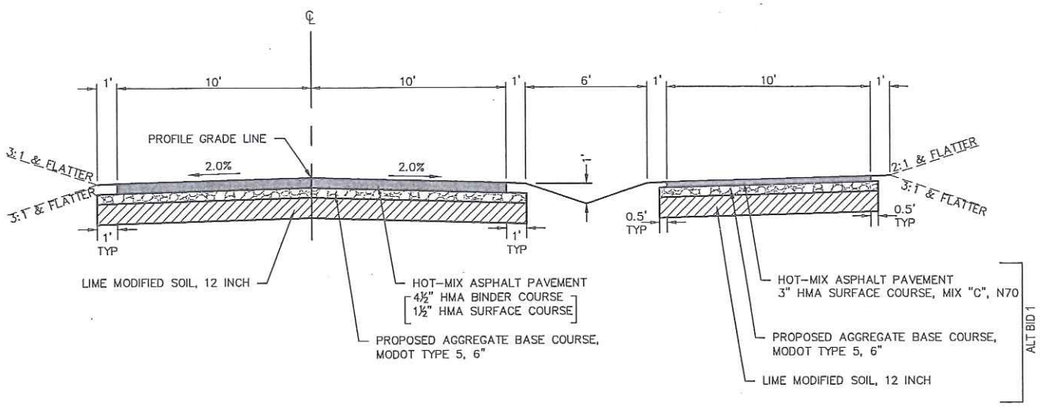
11/20/15
EXP 12/31/16

FILE NAME = 12045.005_DETAILS.DWG

OATES ASSOCIATES Engineering + Architecture www.oatesassociates.com MISSOURI DESIGN FIRM LICENSE NO.: 001166	USER NAME = TYLER HUFFMAN	DESIGNED - ___	REVISED -	The City of WILDWOOD MISSOURI PLANNING TOMORROW TODAY
		DRAWN - ___	REVISED -	
	PLOT SCALE = 1' = 1'	CHECKED - ___	REVISED -	
	PLOT DATE = 2015-11-06	DATE - 2015-09-03	REVISED -	

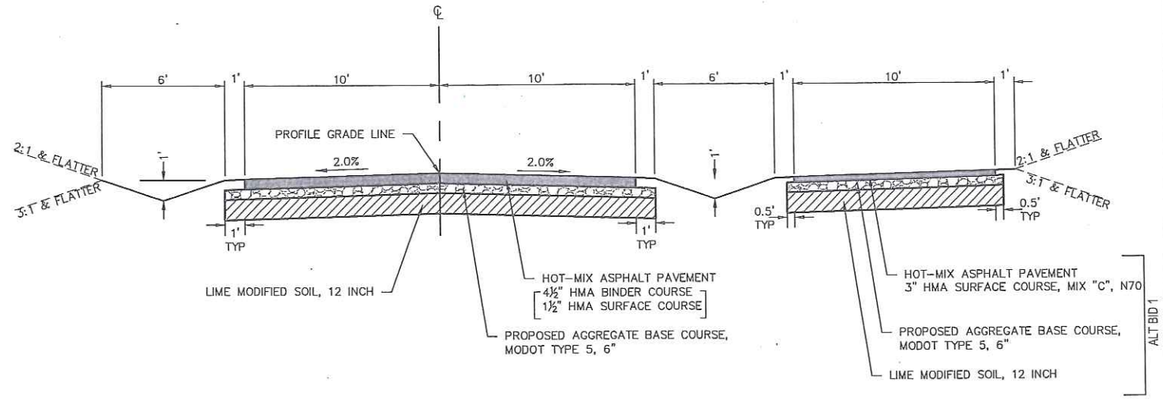
WILDWOOD COMMUNITY PARK - PHASE 2
GENERAL NOTES, ABBREVIATIONS, & COMMITMENTS
SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	-_-___-_-	ST. LOUIS	19	2
		MISSOURI		



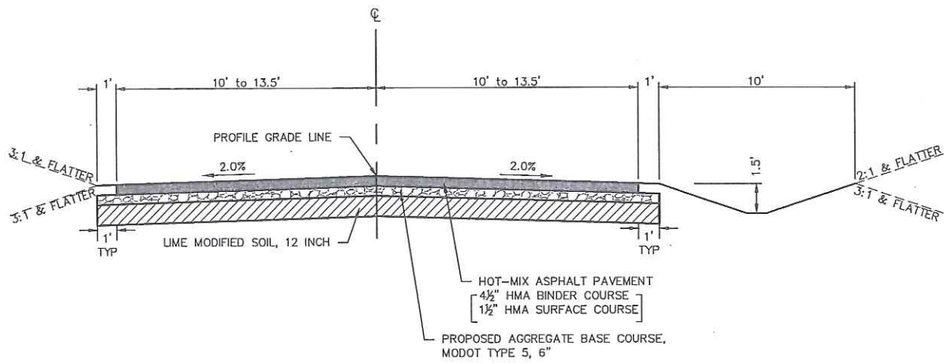
PROPOSED POND GROVER LOOP ROAD

STA. 26+50 TO STA. 30+50
NO SCALE



PROPOSED POND GROVER LOOP ROAD

STA. 30+50 TO STA. 32+56
NO SCALE



PROPOSED POND GROVER LOOP ROAD

STA. 14+77 TO STA. 26+50
NO SCALE

CURVE TABLE

POND GROVER LOOP ROAD							
CURVE #	P.I. STA.	Δ	T	R	L	P.C. STA.	P.T. STA.
PGLR 1	15+69.61	111°42'53"	140.09'	95'	185.23'	14+77.00	16+62.23
PGLR 2	21+36.44	16°29'52"	260.95'	1800'	518.29'	18+77.30	23+95.59
PGLR 3	25+99.92	65°54'55"	226.92'	350'	402.65'	23+95.59	27+98.24
PGLR 4	31+16.21	16°48'27"	141.09'	955'	280.15'	29+76.13	32+56.28

STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER
11/10/15

FILE NAME: TYPICALS.DWG

OATES ASSOCIATES
Engineering + Architecture
www.oatesassociates.com
MISSOURI DESIGN FIRM LICENSE NO.: 001166

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		DRAWN -	___	REVISED -	
PLOT SCALE =	1' = 1'	CHECKED -	___	REVISED -	
PLOT DATE =	2015-09-10	DATE -	___	REVISED -	

The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2
TYPICAL SECTIONS

SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

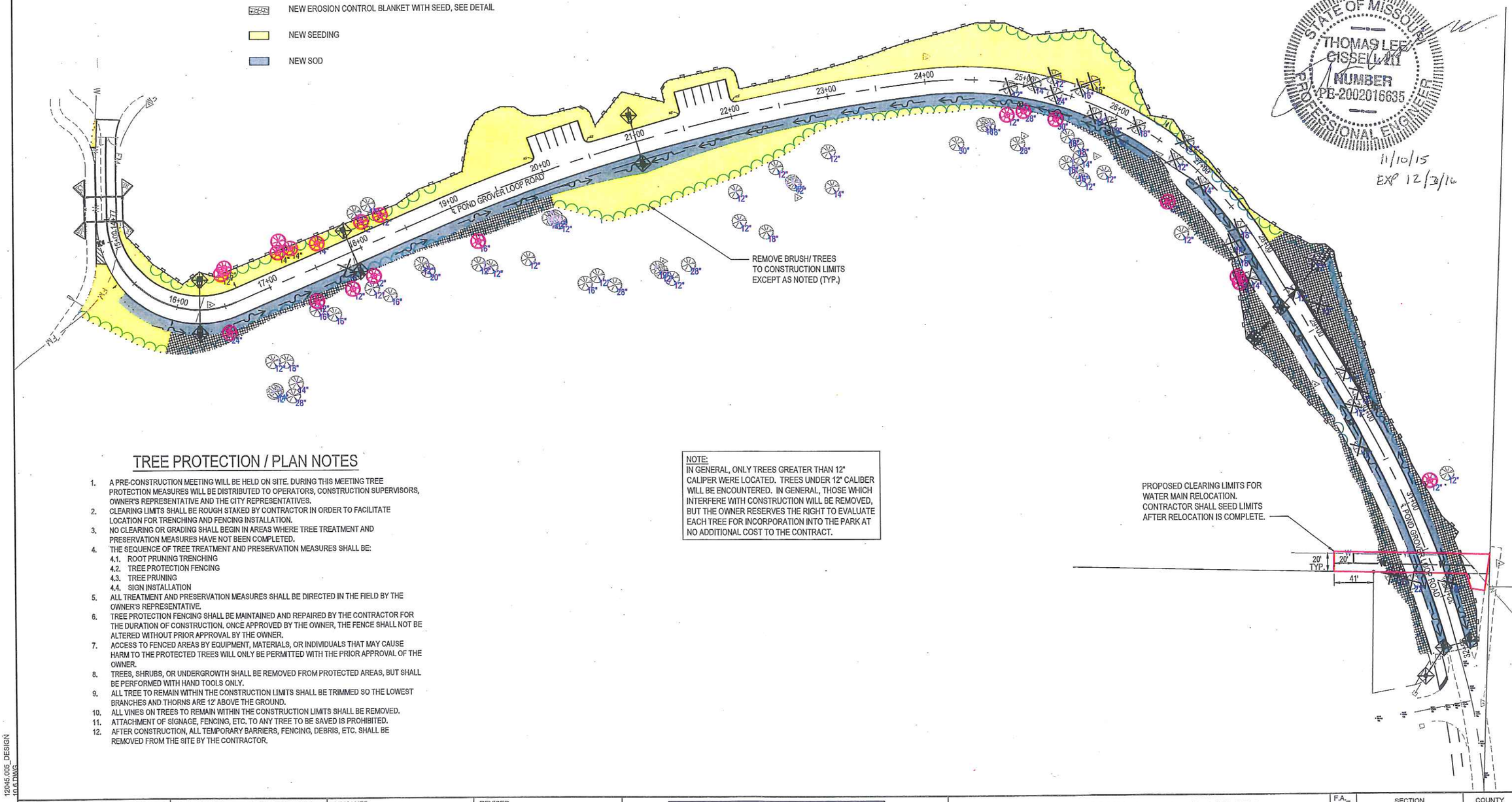
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	-_-_-_-_-	ST. LOUIS	19	3
		MISSOURI		

REMOVAL AND EROSION CONTROL LEGEND

- EXISTING TREE, TO BE PROTECTED
- EXISTING TREE, TO BE REMOVED
- PROPOSED TREE / BRUSH LINE
- NEW PERIMETER EROSION BARRIER, SEE DETAIL
- NEW PIPE PROTECTION, SEE DETAIL
- NEW EROSION CONTROL BLANKET WITH SEED, SEE DETAIL
- NEW SEEDING
- NEW SOD

N

SCALE: 1" = 50'



STATE OF MISSOURI
THOMAS LEE GISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER

11/10/15
EXP 12/31/16

TREE PROTECTION / PLAN NOTES

1. A PRE-CONSTRUCTION MEETING WILL BE HELD ON SITE. DURING THIS MEETING TREE PROTECTION MEASURES WILL BE DISTRIBUTED TO OPERATORS, CONSTRUCTION SUPERVISORS, OWNER'S REPRESENTATIVE AND THE CITY REPRESENTATIVES.
2. CLEARING LIMITS SHALL BE ROUGH STAKED BY CONTRACTOR IN ORDER TO FACILITATE LOCATION FOR TRENCHING AND FENCING INSTALLATION.
3. NO CLEARING OR GRADING SHALL BEGIN IN AREAS WHERE TREE TREATMENT AND PRESERVATION MEASURES HAVE NOT BEEN COMPLETED.
4. THE SEQUENCE OF TREE TREATMENT AND PRESERVATION MEASURES SHALL BE:
   - 4.1. ROOT PRUNING TRENCHING
   - 4.2. TREE PROTECTION FENCING
   - 4.3. TREE PRUNING
   - 4.4. SIGN INSTALLATION
5. ALL TREATMENT AND PRESERVATION MEASURES SHALL BE DIRECTED IN THE FIELD BY THE OWNER'S REPRESENTATIVE.
6. TREE PROTECTION FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION. ONCE APPROVED BY THE OWNER, THE FENCE SHALL NOT BE ALTERED WITHOUT PRIOR APPROVAL BY THE OWNER.
7. ACCESS TO FENCED AREAS BY EQUIPMENT, MATERIALS, OR INDIVIDUALS THAT MAY CAUSE HARM TO THE PROTECTED TREES WILL ONLY BE PERMITTED WITH THE PRIOR APPROVAL OF THE OWNER.
8. TREES, SHRUBS, OR UNDERGROWTH SHALL BE REMOVED FROM PROTECTED AREAS, BUT SHALL BE PERFORMED WITH HAND TOOLS ONLY.
9. ALL TREE TO REMAIN WITHIN THE CONSTRUCTION LIMITS SHALL BE TRIMMED SO THE LOWEST BRANCHES AND THORNS ARE 12' ABOVE THE GROUND.
10. ALL VINES ON TREES TO REMAIN WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED.
11. ATTACHMENT OF SIGNAGE, FENCING, ETC. TO ANY TREE TO BE SAVED IS PROHIBITED.
12. AFTER CONSTRUCTION, ALL TEMPORARY BARRIERS, FENCING, DEBRIS, ETC. SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

NOTE:
IN GENERAL, ONLY TREES GREATER THAN 12" CALIPER WERE LOCATED. TREES UNDER 12" CALIBER WILL BE ENCOUNTERED. IN GENERAL, THOSE WHICH INTERFERE WITH CONSTRUCTION WILL BE REMOVED, BUT THE OWNER RESERVES THE RIGHT TO EVALUATE EACH TREE FOR INCORPORATION INTO THE PARK AT NO ADDITIONAL COST TO THE CONTRACT.

FILE NAME = 12045.005_DESIGN 10.6.DWG

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	PLOT SCALE = 1' = 1'	CHECKED - ___	REVISED -	
MISSOURI DESIGN FIRM LICENSE NO.: 001165	PLOT DATE = ___	DATE - 2015-08-31	REVISED -	

The City of WILDWOOD MISSOURI
PLANNING TOMORROW. TODAY

WILDWOOD COMMUNITY PARK - PHASE 2
REMOVAL AND EROSION CONTROL SHEET

SCALE: | SHEET NO.1 OF 1 SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	-_-_-_-	ST. LOUIS	19	4
		MISSOURI		

PLAN SHEET LEGEND

- NEW HMA ROADWAY
- MILL AND OVERLAY
- CONSTRUCTION LIMITS

WATER VALVE, TO BE ADJUSTED

EX. BIKE PATH, DND

MATCHLINE STA. 14+77

TRANSITION 20' WIDE PAVEMENT TO 27' WIDE BETWEEN STA 14+77 TO STA 16+62.23

WHITE CHEVRON PAINT MARKINGS, SEE DETAIL

CURVE PGLR 1

EX CULVERT, DND

GRADE AREA TO SATISFACTION OF THE OWNER TO MATCH FIELD CONDITIONS

SPEED LIMIT 15

NEW SPEED LIMIT SIGN (R2-1) 18"x24", STA 15+40, SEE DETAIL

NEW BICYCLE SIGN (W11-1) 24"x24" AND SHARE THE ROAD SIGN (W16-1P) 18"x24" STA 26+50, SEE DETAIL ALT BID G-1

SHARE THE ROAD

NEW 4" DOUBLE YELLOW PAINT PAVEMENT MARKING

NEW FLARED END SECTION WITH 5'x5' MSD - 5 ROCK BLANKET +23.7, 22.8' RT, INV 684.44

BEGIN PROJECT STA 13+76.00

SAVE LANDSCAPING ROCKS RESET IN SIMILAR PATTERN

NEW FLARED END SECTION WITH 5'X5' MSD - 5 ROCK BLANKET +23.5, 29' LT, INV 684.19

REMOVE AND RESET EXISTING 30" 33 LF RCP @ 0.50% WITH 6 LF OF 30" RCP ADDED TO ONE END

NEW SPEED LIMIT SIGN (R2-1) 18"x24", STA 16+68,SEE DETAIL

SPEED LIMIT 15

NEW FLARED END SECTION WITH 5'X5' MSD - 5 ROCK BLANKET +90, 21.50 LT, INV 683.86

EX. BIKE PATH, DND

EXTEND GATE TO OUTSIDE OF NEW PAVEMENT, SEE GATE DETAILS

MATCHLINE STA. 14+77

MILL EXISTING 15' WIDE PARK ROADWAY (ZERO TO 3") DEEP TO REMOVE THE SUPER ELEVATION SLOPE. WIDEN TO THE SOUTH SIDE OF THE ROADWAY. CROWN THE ROAD IN THE CENTER TO HAVE (2) 10'-WIDE LANES SLOPED AT 2% IN BOTH DIRECTIONS.

GRAPHIC SCALE 1"=20'

REMOVE AND RESET EXISTING 15" 30 LF RCP @ 1.00%.

CONSTR. LIMITS

℄ POND GROVER LOOP ROAD

17+00 18+00 19+00

MATCHLINE STA. 19+75

CP #302

NEW FLARED END SECTION WITH 5'X5' MSD - 5 ROCK BLANKET +90, 20.5 RT, INV 684.30

SEE CROSS SECTIONS, GRADE SWALE TO DRAIN TO CULVERTS

CONSTR. LIMITS

STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER
11/10/15
REV 12/31/15

CP #302 - REBAR
STA. 19+17, 21.93' RT
ELEV: 694.32'
N: 1003016.467 E: 778113.455

PVI STA = 19+50.00
PVI ELEV = 686.56
A.D. = -0.40%
K = 251.45
100' VC

GRADE BREAK STA = 14+77.00
ELEV = 689.32

BEGIN PROJECT STA 14+77 MATCH EX

-0.50%

EX GROUND LINE

PR PROFILE GRADE LINE

PR CULVERT

PR CULVERT

BVCS: 19+00.00
BVCE: 687.20

7.55%

STA. 19+50
ELEV. 684.42

SPECIAL DITCH RIGHT

715 710 705 700 695 690 685 680 675

15+00	16+00	17+00	18+00	19+00
676.7 689.30	684.4 689.20	685.7 689.10	687.2 689.00	687.2 688.90
687.2 688.80	688.5 688.70	685.4 688.60	688.9 688.50	690.0 688.40
690.1 688.30	689.9 688.20	689.8 688.10	689.9 688.00	689.8 687.90
688.0 687.80	686.3 687.70	689.2 687.60	690.6 687.50	690.9 687.40
690.9 687.30	691.2 687.20	692.1 687.10	691.8 686.97	691.0 686.83

PLAN: SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, STRUCTURE NO/ATING CHKD

BY DATE

FILE NAME = 12045.005_DESIGN 10.6.DWG

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		DRAWN -	___	REVISED -	
PLOT SCALE =	1' = 1'	CHECKED -	___	REVISED -	
PLOT DATE =	2015-11-06	DATE -	2008-02-25	REVISED -	

The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2

PLAN & PROFILE SHEETS

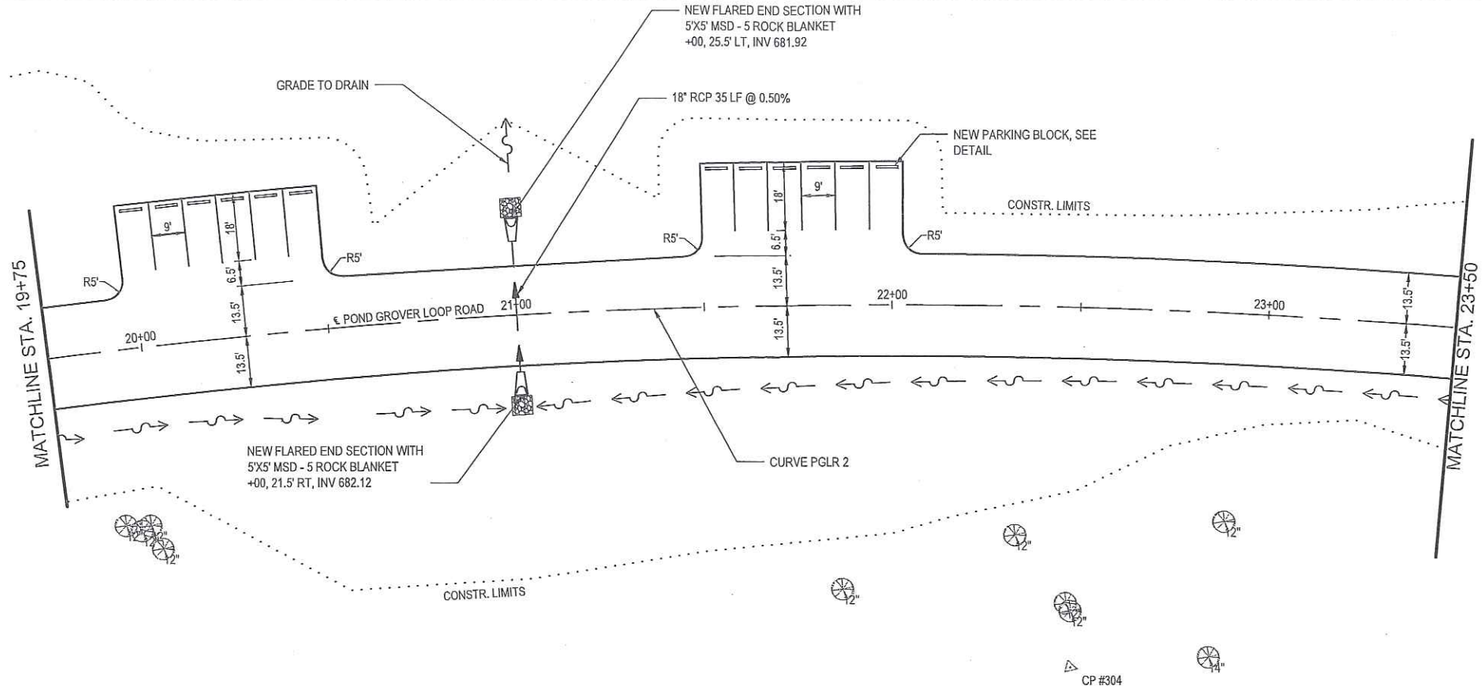
SCALE: | SHEET NO. 1 OF 4 SHEETS | STA. 14+77 TO STA. 19+75

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	- - - -	ST. LOUIS	19	5
		MISSOURI		

PLAN SHEET LEGEND

NEW HMA ROADWAY

CONSTRUCTION LIMITS



N

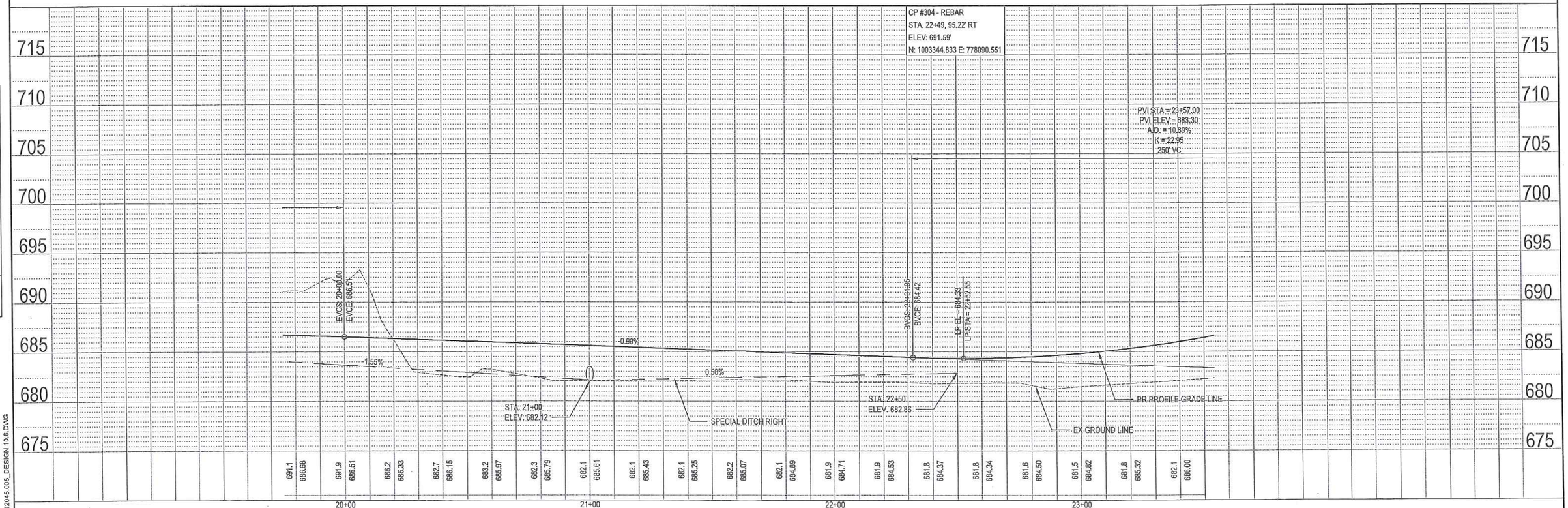
0 20' 40'

GRAPHIC SCALE
1"=20'

STATE OF MISSOURI
THOMAS LEE
GISELL III
NUMBER
PE-2002016635
PROFESSIONAL ENGINEER

11/10/15
Exp 12/31/16

CP #304 - REBAR
STA. 22+49, 95.22' RT
ELEV: 691.59'
N: 1003344.833 E: 778090.551



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		DRAWN - ___	REVISED -	
	PLOT SCALE = 1' = 1'	CHECKED - ___	REVISED -	
	PLOT DATE = 2015-11-06	DATE - 2008-02-25	REVISED -	

WILDWOOD COMMUNITY PARK - PHASE 2

PLAN & PROFILE SHEETS

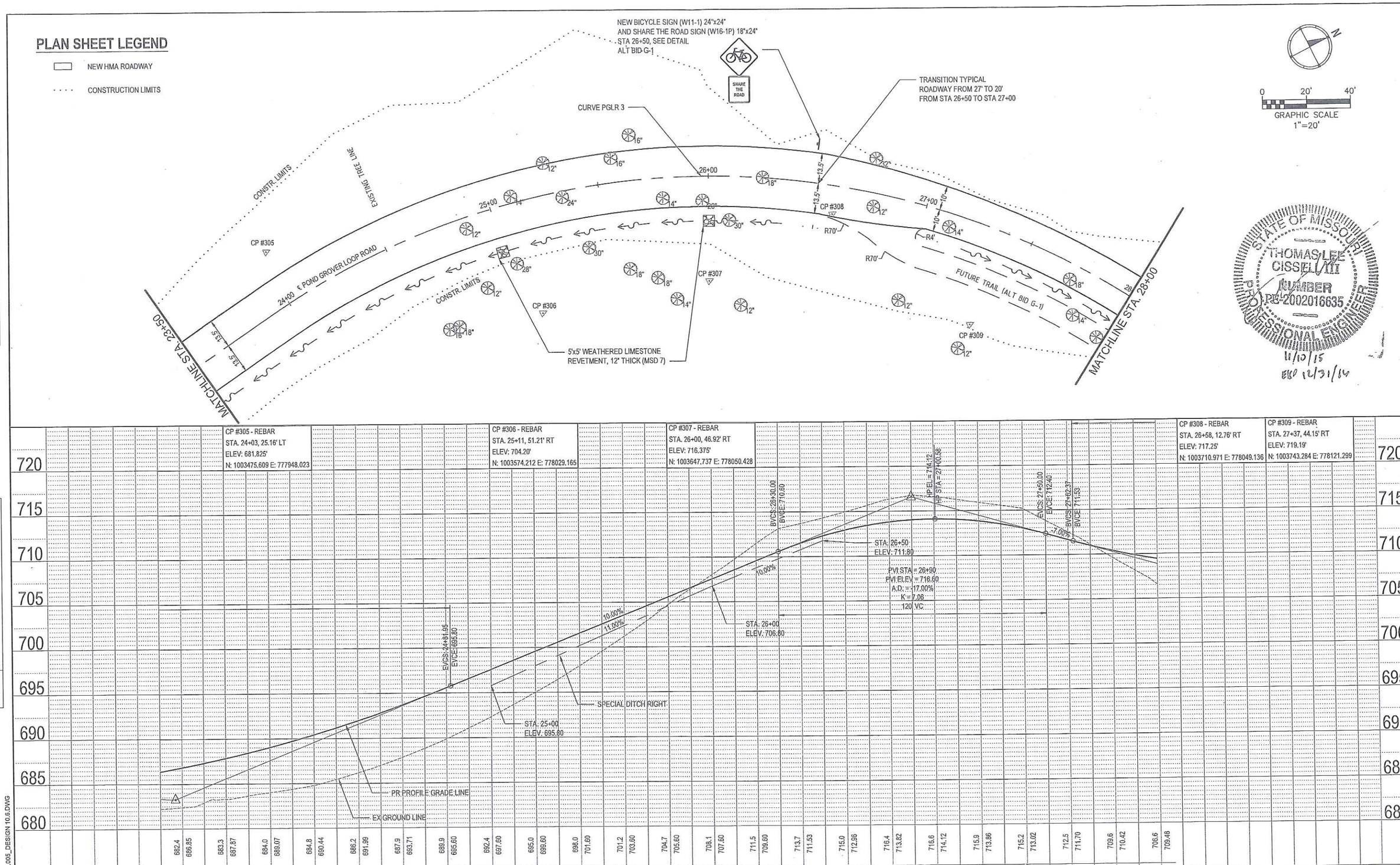
SCALE: | SHEET NO. 2 OF 4 SHEETS | STA. 19+75 TO STA. 23+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	___-___-___	ST. LOUIS	19	6
		MISSOURI		

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, NOTE BOOK, NO.___, CADD FILE NAME, DATE, BY

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO.___, STRUCTURE NO/FAN'S CHKD, DATE, BY

FILE NAME = 12045.005_DESIGN 10.6.DWG



PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE

FILE NAME = 12045.005_DESIGN 10.6.DWG

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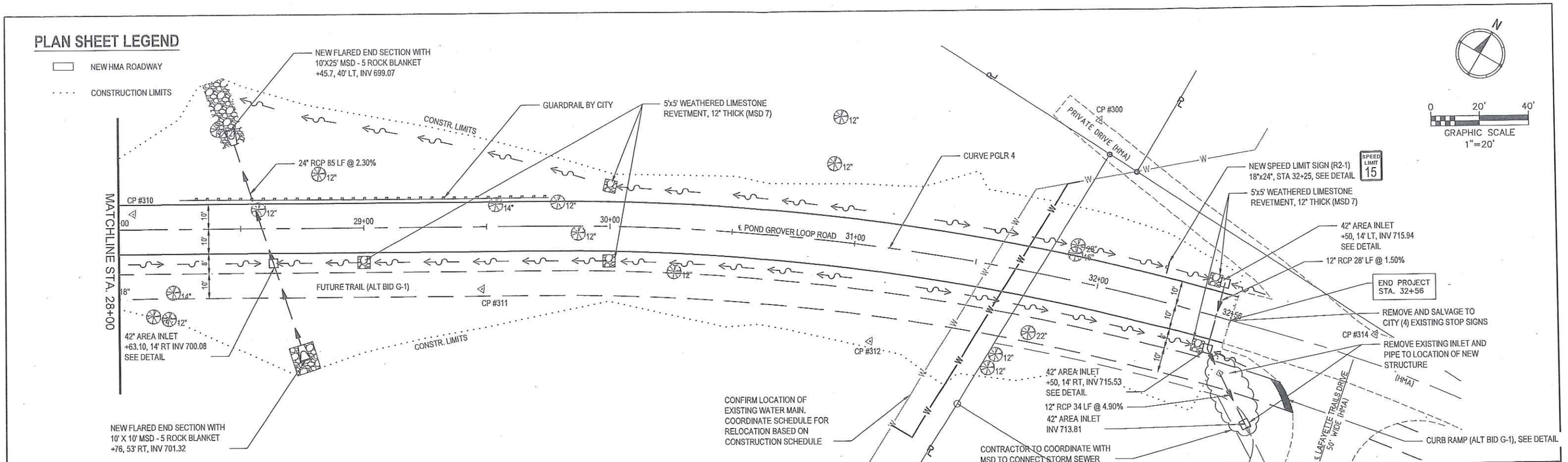
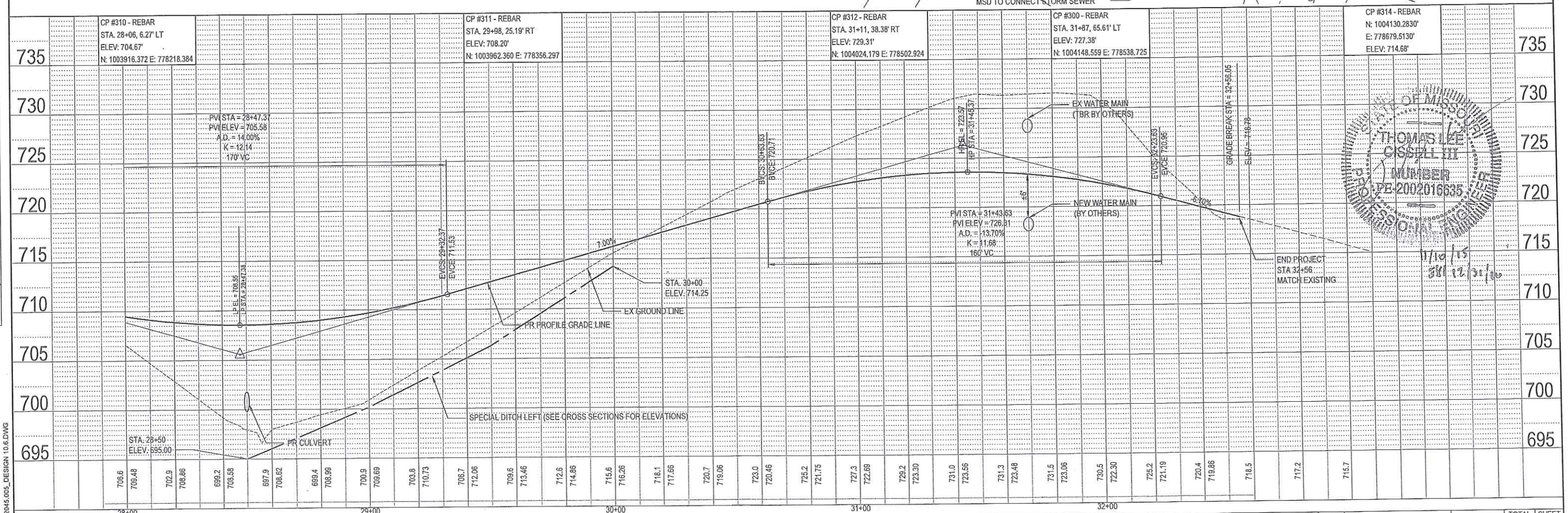
		DRAWN -	REVISED -		
	PLOT SCALE = 1' = 1'	CHECKED -	REVISED -		SCALE: SHEET NO. 3 OF 4 SHEETS STA. 23+50 TO STA. 28+00
	PLOT DATE = 2015-11-06	DATE - 2008-02-25	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ST. LOUIS	19	7
		MISSOURI		

PLAN SHEET LEGEND

- NEW HMA ROADWAY
- CONSTRUCTION LIMITS





STATE OF MISSOURI
THOMAS LEE GOSSELIN
NUMBER PE-2002016635
PROFESSIONAL ENGINEER
11/10/15
SHEET 12 OF 31/16

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	FIELD CHECKED		
	AT: OFFWAY CHECKED		
NOTE BOOK	CADD FILE NAME		
NO.			

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	FIELD CHECKED		
	GRADES CHECKED		
NOTE BOOK	S.M. NOTED		
NO.	STRUCTURE NOTATNS CHKD		

FILE NAME = 12045.005_DESIGN 10.6.DWG

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MISSOURI DESIGN FIRM LICENSE NO.: 001166

USER NAME =	TYLER HUFFMAN	DESIGNED -	___	REVISED -	
		DRAWN -	___	REVISED -	
PLOT SCALE =	1' = 1'	CHECKED -	___	REVISED -	
PLOT DATE =	2015-11-06	DATE -	2008-02-25	REVISED -	

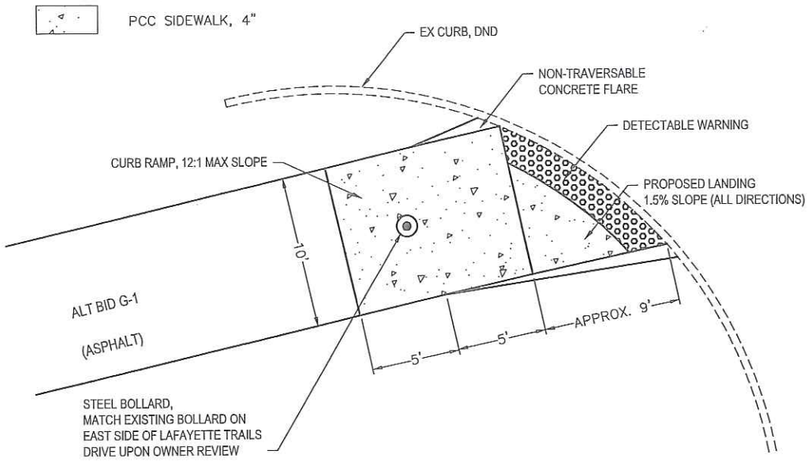
The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2

PLAN & PROFILE SHEETS

SCALE: | SHEET NO. 4 OF 4 SHEETS | STA. 28+00 TO STA. 32+56

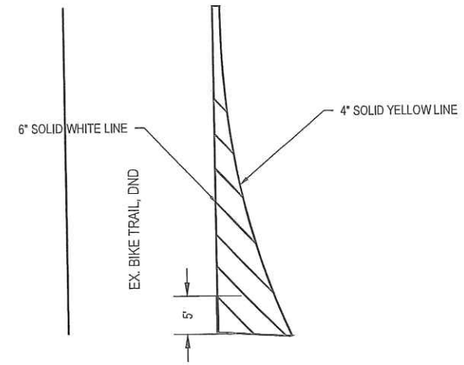
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	-.- -.-	ST. LOUIS	19	8
		MISSOURI		



LAFAYETTE TRAILS DRIVE

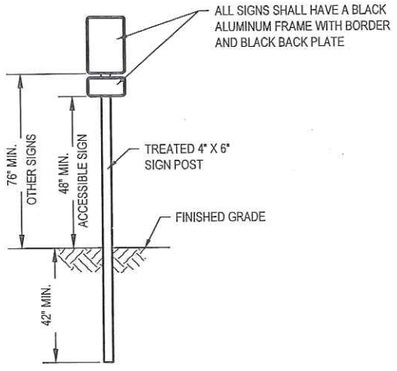
CURB RAMP DETAIL (ALT BID G-1)

(NOT TO SCALE)



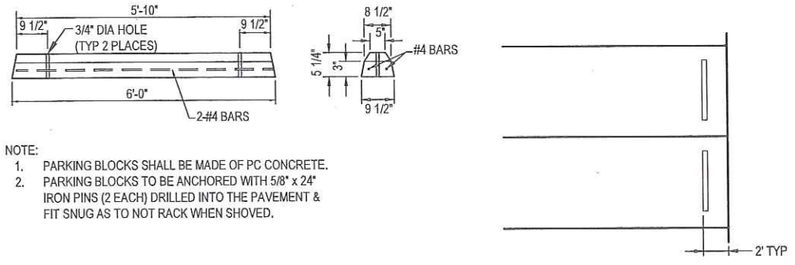
WHITE HATCHING MARKINGS DETAIL

(NOT TO SCALE)



SIGN DETAIL

(NOT TO SCALE)

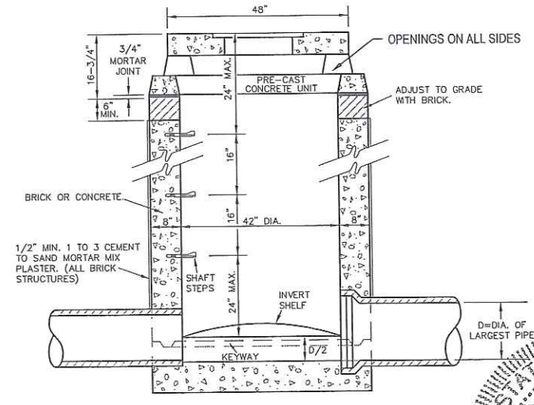


NOTE:

1. PARKING BLOCKS SHALL BE MADE OF PC CONCRETE.
2. PARKING BLOCKS TO BE ANCHORED WITH 5/8" x 24" IRON PINS (2 EACH) DRILLED INTO THE PAVEMENT & FIT SNUG AS TO NOT RACK WHEN SHOVED.

PARKING BLOCK DETAIL

(NOT TO SCALE)



FOR PRIVATE USE ONLY

AREA INLET DETAIL

(NOT TO SCALE)

STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER
11/10/15
Exp. 12/31/16

FILE NAME = 12045.005_DETAILS.DWG

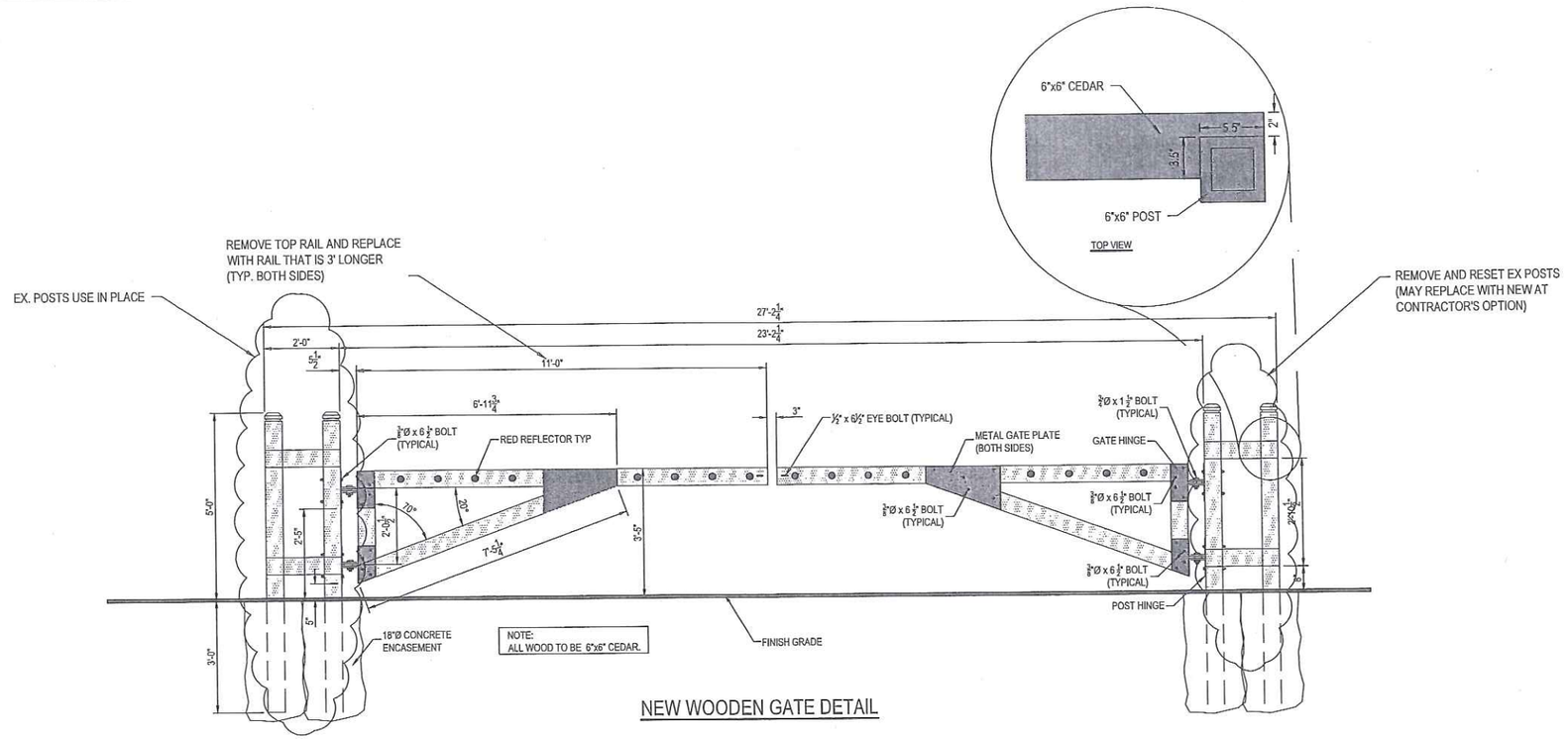
OATES ASSOCIATES Engineering + Architecture www.oatesassociates.com MISSOURI DESIGN FIRM LICENSE NO.: 001166	USER NAME = TYLER HUFFMAN	DESIGNED - ___	REVISED -	
		DRAWN - ___	REVISED -	
	PLOT SCALE = 1' = 1'	CHECKED - ___	REVISED -	
	PLOT DATE = 2015-11-06	DATE - 2015-09-03	REVISED -	

The City of WILDWOOD MISSOURI PLANNING TOMORROW TODAY

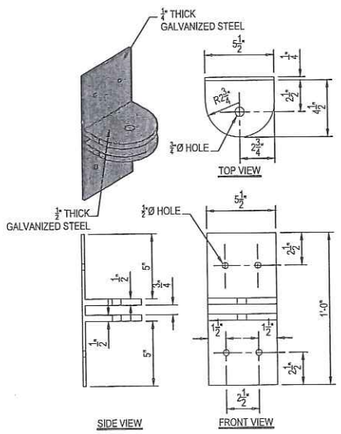
WILDWOOD COMMUNITY PARK - PHASE 2
CONSTRUCTION DETAILS

SCALE: | SHEET NO. 1 OF 4 SHEETS | STA. _____ TO STA. _____

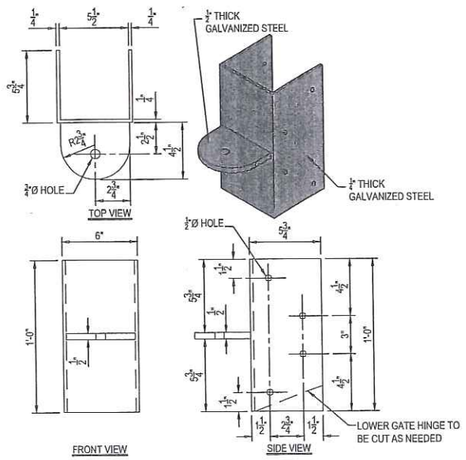
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	- - - -	ST. LOUIS	19	9
		MISSOURI		



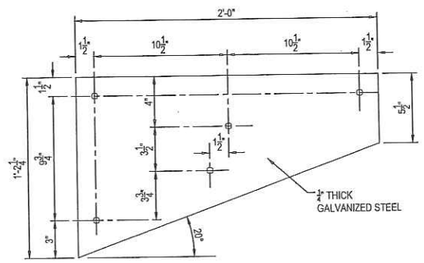
NEW WOODEN GATE DETAIL



POST HINGE DETAIL



GATE HINGE DETAIL



METAL GATE PLATE DETAIL

STATE OF MISSOURI
THOMAS LEE CASSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER

11/10/15
Exp. 12/31/16

FILE NAME = 12045.005_DETAILS.DWG

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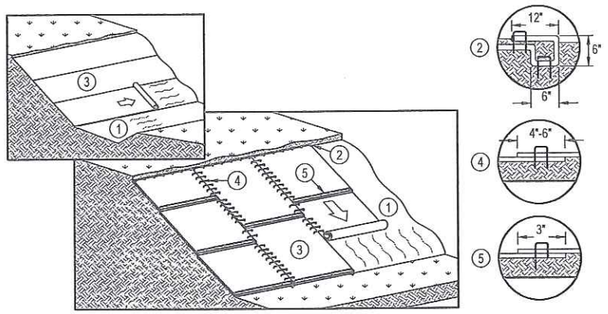
		DRAWN - ___	REVISED -	
	PLOT SCALE = 1' = 1'	CHECKED - ___	REVISED -	
	PLOT DATE = 2015-09-10	DATE - 2015-09-03	REVISED -	

The City of WILDWOOD MISSOURI PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2
CONSTRUCTION DETAILS

SCALE: | SHEET NO. 2 OF 4 SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	_-_-_-_-_	ST. LOUIS	19	10
		MISSOURI		



1. PREPARE FINISHED GRADE BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED ACCORDING TO THE SPECIFICATIONS.

2. ANCHOR THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH AT THE TOP OF THE SLOPE WITH A ROW OF LANDSCAPE STAPLES AT 12" SPACING IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. SEED THE SOIL AND FOLD THE REMAINING 12" LONG BLANKET REMNANT BACK OVER SEED AND TOP SOIL. ANCHOR THE BLANKET OVER COMPACTED TOP SOIL WITH A ROW OF LANDSCAPE STAPLES SPACED AT 12" SPACING ACROSS THE BLANKET AT THE TOP OF THE SLOPE.

3. ROLL THE BLANKETS DOWN (OPTION A) OR HORIZONTALLY (OPTION B) ACROSS THE SLOPE. UNROLL BLANKETS WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. SECURELY FASTEN BLANKETS TO SOIL BY PLACING LANDSCAPE STAPLES PER MANUFACTURER'S RECOMMENDATION.

4. STAPLE THE EDGES OF PARALLEL BLANKETS WITH A MINIMUM 6" OVERLAP OR PER MANUFACTURER'S RECOMMENDATIONS.

5. SPLICE BLANKETS END OVER END WITH A 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA AT 12" SPACING THE ACROSS ENTIRE BLANKET WIDTH OR PER MANUFACTURER'S SPECIFICATIONS.

6. TERMINAL ENDS SHALL BE ANCHORED WITH A ROW OF LANDSCAPE STAPLES SPACED 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL, COMPACT, AND SEED THE TRENCH WITH TOPSOIL AFTER STAPLING.

NOTES:

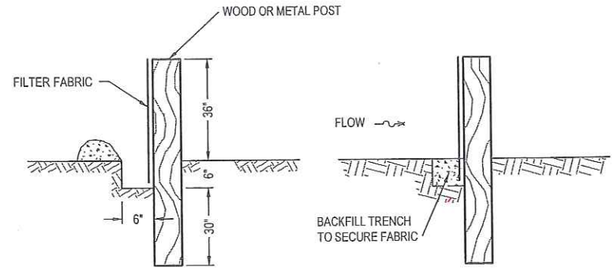
1. PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

2. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

3. FOLLOW SPECIFICATIONS FOR PROCUCT SELECTION.

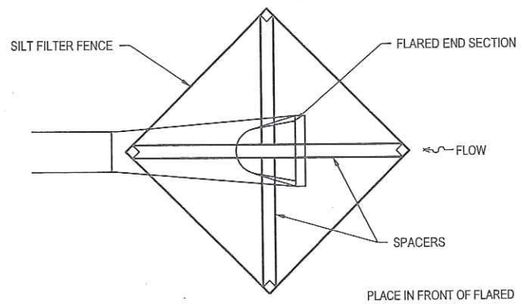
EROSION CONTROL BLANKETS FOR SLOPES

(NOT TO SCALE)



SILT FILTER FENCE AS A PERIMETER EROSION BARRIER

(NOT TO SCALE)



PIPE PROTECTION

(NOT TO SCALE)

STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER

11/10/15
EXP 12/31/16

FILE NAME = 12045.005_DETAILS.DWG

OATES ASSOCIATES Engineering + Architecture www.oatesassociates.com MISSOURI DESIGN FIRM LICENSE NO.: 001166	USER NAME = TYLER HUFFMAN	DESIGNED - ___	REVISED -	The City of WILDWOOD MISSOURI PLANNING TOMORROW TODAY	WILDWOOD COMMUNITY PARK - PHASE 2 CONSTRUCTION DETAILS
		DRAWN - ___	REVISED -		
	PLOT SCALE = 1' = 1'	CHECKED - ___	REVISED -		SCALE: / SHEET NO. 3 OF 4 SHEETS / STA. ___ TO STA. ___
	PLOT DATE = 2015-09-10	DATE - 2015-09-03	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	- - - -	ST. LOUIS	19	11
		MISSOURI		

PROJECT NAME:

WILDWOOD COMMUNITY PARK - PHASE 2
SECTION 2, TOWNSHIP 44 NORTH, RANGE 3 EAST OF THE 5TH PRINCIPAL MERIDIAN
2153 HIGHWAY 109
WILDWOOD, MISSOURI, 63040

OWNER NAME & ADDRESS:

CITY OF WILDWOOD
183 PLAZA DRIVE
WILDWOOD, MISSOURI 63040

DESCRIPTION:

SOIL DISTURBING ACTIVITIES WILL INCLUDE: DEMOLITION, CLEARING AND GRUBBING, TREE REMOVAL, MASS GRADING, FINE GRADING.

WATERSHED SOIL CLASSIFICATION: HYDROLOGIC SOIL GROUP "C", "D" AND "C/D".

EROSION CONTROL MEASURES SHALL INCLUDE: INSTALLING PERIMETER SILT FENCE, SODDING, EROSION CONTROL BLANKET, PIPE PROTECTION, TEMPORARY AND PERMANENT VEGETATION.

SITE AREA:

THE SITE IS APPROXIMATELY 3 ACRES.

THE SEQUENCE OF MAJOR ACTIVITIES SHALL BE AS FOLLOWS:

1. PERFORM REMOVALS
2. INSTALL PERIMETER SILT FENCE
3. CLEAR AND GRUB.
4. MASS GRADE.
5. STABILIZE DENUDED AREA AND STOCKPILES WITH TEMPORARY SEEDING WITHIN 14 DAYS OF THE LAST GRADING ACTIVITY IN THAT AREA.
6. INSTALL PIPE CULVERTS.
7. INSTALL PIPE PROTECTION ON NEW OUTLETS.
8. COMPLETE FINE GRADING AND INSTALL PERMANENT SODDING AND SEEDING.
9. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND ALL VEGETATION IS ESTABLISHED, REMOVE ALL EROSION CONTROL MEASURES, AND RE-SOD/ RE-SEED ANY AREAS DISTURBED BY THEIR REMOVAL.

NAME OF RECEIVING WATERS:

NO STORM WATER IS BEING REDIRECTED FROM ITS PREVIOUS RECEIVING WATER.

OFFSITE VEHICLE TRACKING:

PAVED STREETS ADJACENT TO THE SITE SHALL BE CLEANED DAILY OR MORE FREQUENTLY AS NECESSARY. CLEANING SHALL INCLUDE SCRAPING SIGNIFICANT AMOUNTS OF SOIL AND POWER SWEEPING AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE.

TIMING OF CONTROL MEASURES:

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES PERIMETER SILT FENCE SHALL BE CONSTRUCTED AT THE COMMENCEMENT OF THE SEQUENCE OF GRADING OPERATIONS AS PRACTICAL. AREAS WHERE CONSTRUCTION ACTIVITY WILL TEMPORARILY CEASE FOR MORE THAN 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING AND MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE.

TEMPORARY SEEDING SHALL CONSIST OF RYE OR WHEAT APPLIED AT A RATE OF 120 POUNDS PER ACRE. 270 POUNDS OF NUTRIENTS OF 10-10-10 FERTILIZER SHALL BE APPLIED TO EACH ACRE. AFTER SEEDING, STRAW MULCH SHALL BE APPLIED AT A RATE OF 4000 POUNDS PER ACRE AND ANCHORED BY CRIMPING.

ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA SHALL BE STABILIZED WITH PERMANENT SODDING. PERMANENT SODDING SHALL BE IN ACCORDANCE WITH PART 8, SECTION F OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL INSPECT AND REMOVE ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINES OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. TO ENSURE THAT THE NATURAL FLOW LINE OF WATER IS NOT OBSTRUCTED. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

AT THE CONCLUSION OF EACH DAY, THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE TO AN AREA PROTECTED BY EROSION CONTROLS. SITE DRAINAGE MAY BE ACHIEVED BY SHEET FLOW, STORM SEWERS, DITCHING OR PUMPING.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS:

THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE METROPOLITAN ST. LOUIS SEWER DISTRICT (MSD) AND TOWN AND COUNTRY MUNICIPAL CODE REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL. TO ENSURE COMPLIANCE, THIS PLAN WAS PREPARED IN ACCORDANCE WITH MSD AND THE REQUIREMENTS OF THE NPDES PERMIT PROGRAM.

MAINTENANCE/INSPECTION PROCEDURES:

THE GENERAL CONTRACTOR SHALL SELECT UP TO THREE INDIVIDUALS WHO SHALL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:

ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY RAINFALL EVENT OF 0.5 INCHES OR GREATER. DURING PERIODS OF EXTENDED RAINFALL, ALL MEASURES SHALL BE INSPECTED DAILY.

ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCES AND STRAW BALE DIKES WHEN IT HAS REACHED ONE-THIRD THE DESIGN HEIGHT OF THE FENCE OR BALE.

TEMPORARY AND PERMANENT SEEDING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND UNHEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION. ALL INSPECTION REPORTS SHALL BE KEPT IN THE CONSTRUCTION OFFICE ON-SITE. IF THE PROVIDED FORM IS INSUFFICIENT, ADDITIONAL FORMS SHALL BE USED AS NECESSARY UNTIL THE PROJECT IS COMPLETED. A REPORT SHALL BE COMPLETED FOR EACH OF THE REQUIRED INSPECTION INTERVALS.

NON-STORM WATER DISCHARGES

IT IS ANTICIPATED THAT SOME NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD.

ANTICIPATED NON-STORM DISCHARGES EXPECTED INCLUDE, PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED), AND UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS:

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED. ANY BITUMINOUS SUBSTANCES USED ONSITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS:

FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE SHALL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

INSPECTION AND MAINTENANCE REPORT FORM

DATE / TIME	INSPECTORS NAME	WEATHER CONDITIONS	RAINFALL LAST 24 HRS.	IS SEDIMENT TRACKED ON TO ROAD	DEPTH OF SILT ON SILT FENCES	DEPTH OF SILT AGAINST DITCH CHECKS	CONDITION OF BASIN SIDE SLOPES	DEPTH OF SILT AGAINST ROCK DAM	ACTION REQUIRED	CONTRACTOR		
										CONTRACTOR'S NAME	CONTRACTOR'S SIGNATURE	DATE OF ACTION

CONTRACTOR CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION. I HAVE READ AND UNDERSTAND ALL OF THE INFORMATION AND REQUIREMENTS STATED IN THE STORM WATER POLLUTION PREVENTION PLAN FOR THE ABOVE MENTIONED PROJECT. I HAVE PROVIDED ALL DOCUMENTATION REQUIRED TO BE IN COMPLIANCE WITH THE ILR10 AND STORM WATER POLLUTION PREVENTION PLAN AND WILL PROVIDE TIMELY UPDATES TO THESE DOCUMENTS AS NECESSARY.

PRINT NAME | SIGNATURE | STREET ADDRESS

TITLE | DATE | CITY/STATE/ZIP

NAME OF FIRM | TELEPHONE

STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER
11/10/15 Exp 12/31/16

FILE NAME = 12045.005_DETAILS.DWG

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MISSOURI DESIGN FIRM LICENSE NO.: 001166

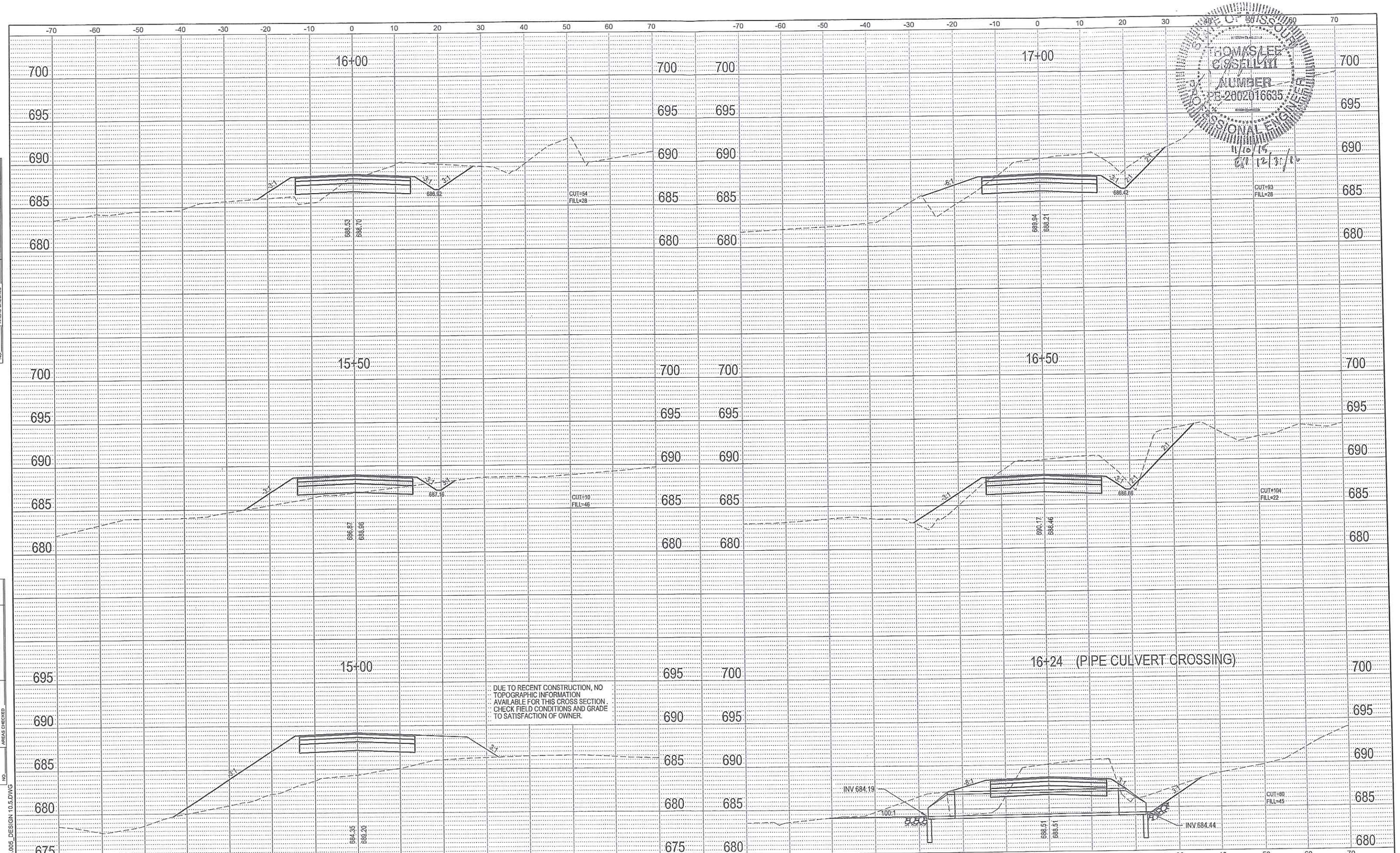
USER NAME =	TYLER HUFFMAN	DESIGNED -	___	REVISED -	
		DRAWN -	___	REVISED -	
PLOT SCALE =	1' = 1'	CHECKED -	___	REVISED -	
PLOT DATE =	2015-09-10	DATE -	2015-09-03	REVISED -	

The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2
CONSTRUCTION DETAILS

SCALE: | SHEET NO. 4 OF 4 SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	-_____-_-__	ST. LOUIS	19	12
		MISSOURI		



STATE OF MISSOURI
THOMAS LEE CASELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER
11/10/15
EXP. 12/31/16

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

FILE NAME = 12045.005_DESIGN 10.5.DWG

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USER NAME = TYLER HUFFMAN	DESIGNED - TLC	REVISED -
	DRAWN - TCH	REVISED -
PLOT SCALE = 6" = 1'	CHECKED - TLC	REVISED -
PLOT DATE = —	DATE - 2015-07-06	REVISED -

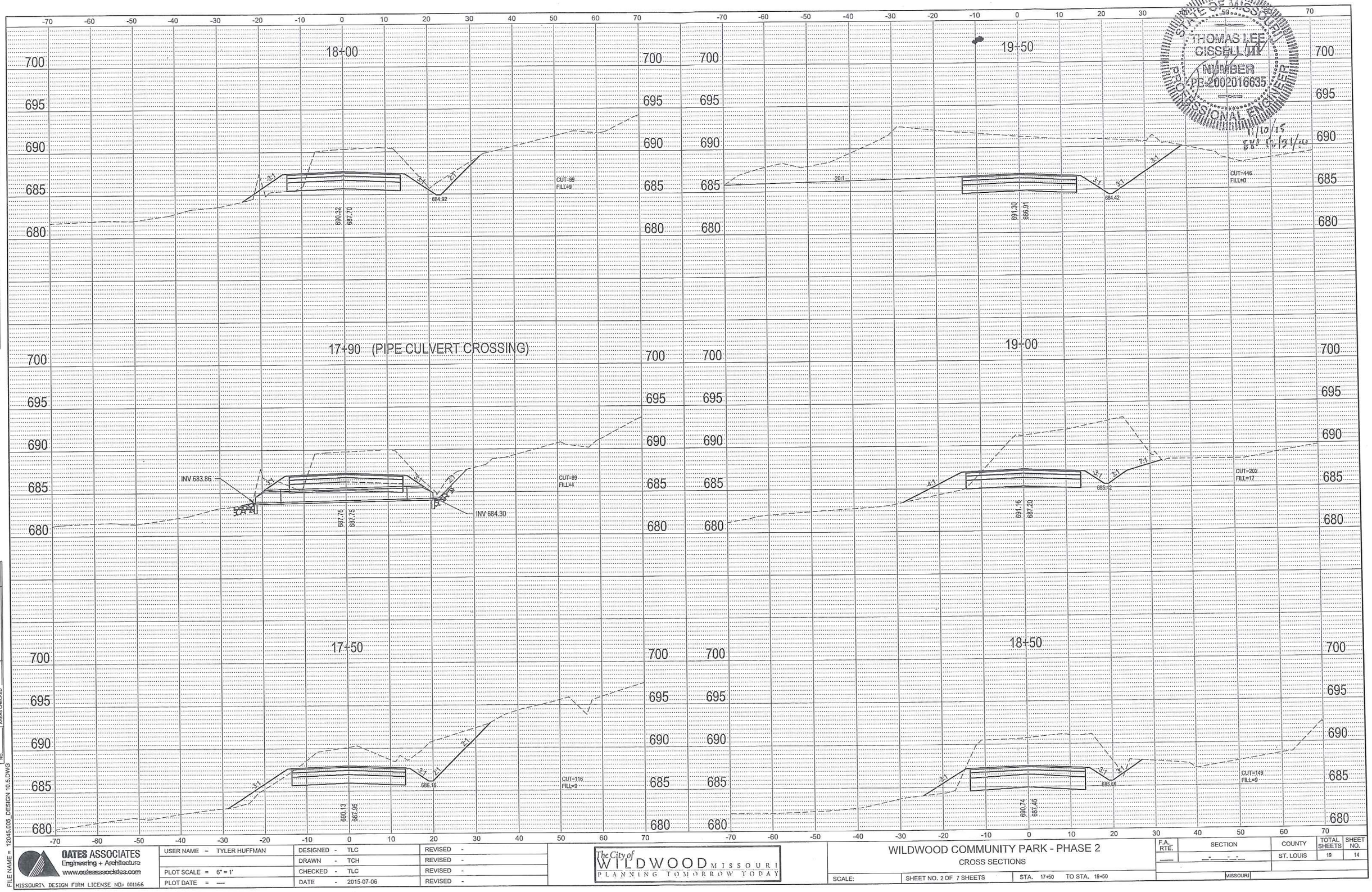
The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2

CROSS SECTIONS

SCALE: | SHEET NO. 1 OF 7 SHEETS | STA. 14+77 TO STA. 17+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
—	— - — - —	ST. LOUIS	19	13
		MISSOURI		



STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER

11/10/15
EXP 12/31/16

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FILE NAME = 12045.005_DESIGN 10.5.DWG

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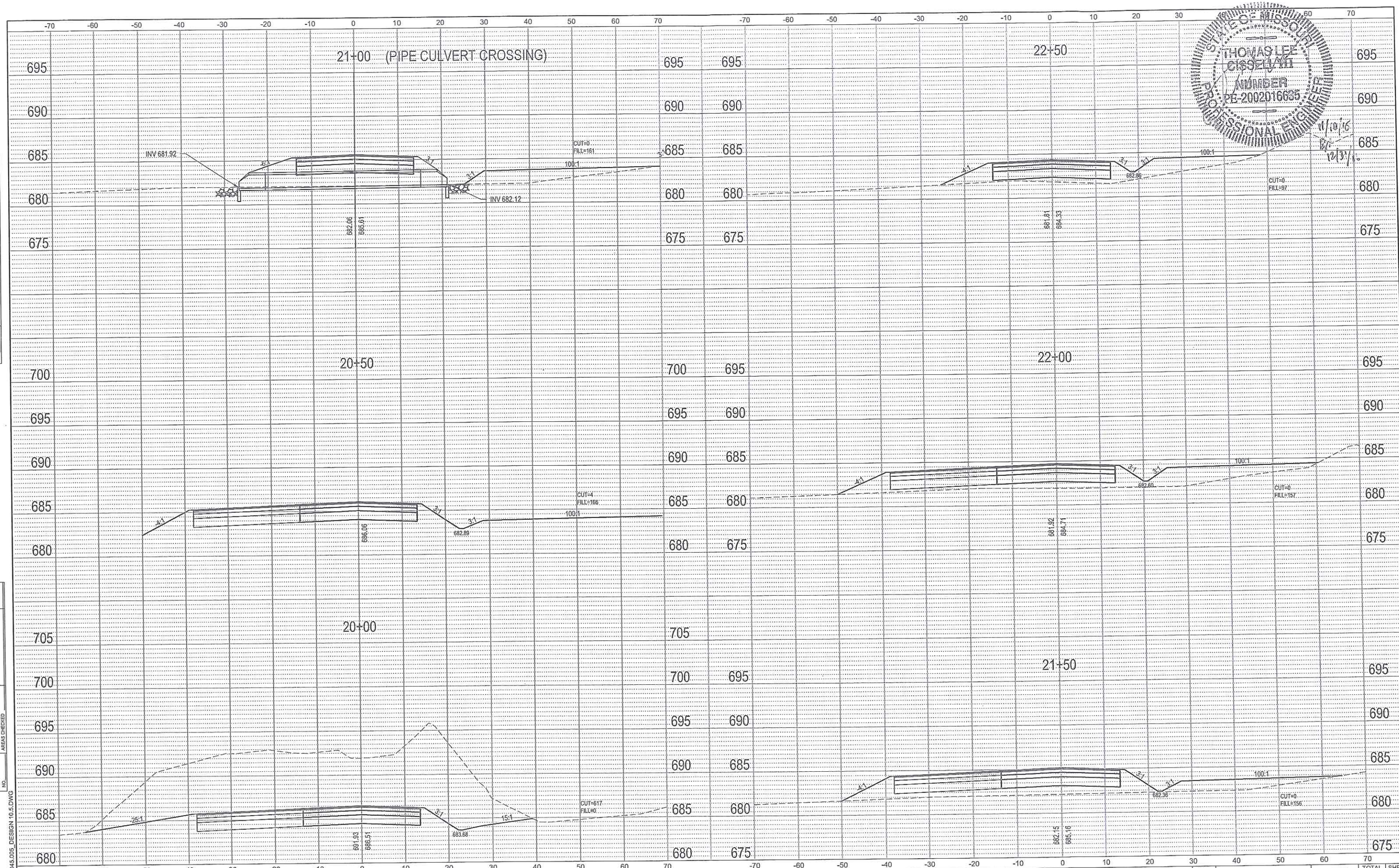
PLOT SCALE = 6" = 1'	CHECKED - TLC	REVISED -	
PLOT DATE = —	DATE - 2015-07-06	REVISED -	

The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2
CROSS SECTIONS

SCALE: | SHEET NO. 2 OF 7 SHEETS | STA. 17+50 TO STA. 19+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
—	— - — - —	ST. LOUIS	19	14
		MISSOURI		



STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER
11/10/16
12/31/16

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

FILE NAME = 12045.005_DESIGN 10.5.DWG

OATES ASSOCIATES
Engineering + Architecture
www.oatesassociates.com
MISSOURI DESIGN FIRM LICENSE NO: 001166

USER NAME = TYLER HUFFMAN	DESIGNED - TLC	REVISED -	
	DRAWN - TCH	REVISED -	
PLOT SCALE = 6" = 1'	CHECKED - TLC	REVISED -	
PLOT DATE = —	DATE - 2015-07-06	REVISED -	

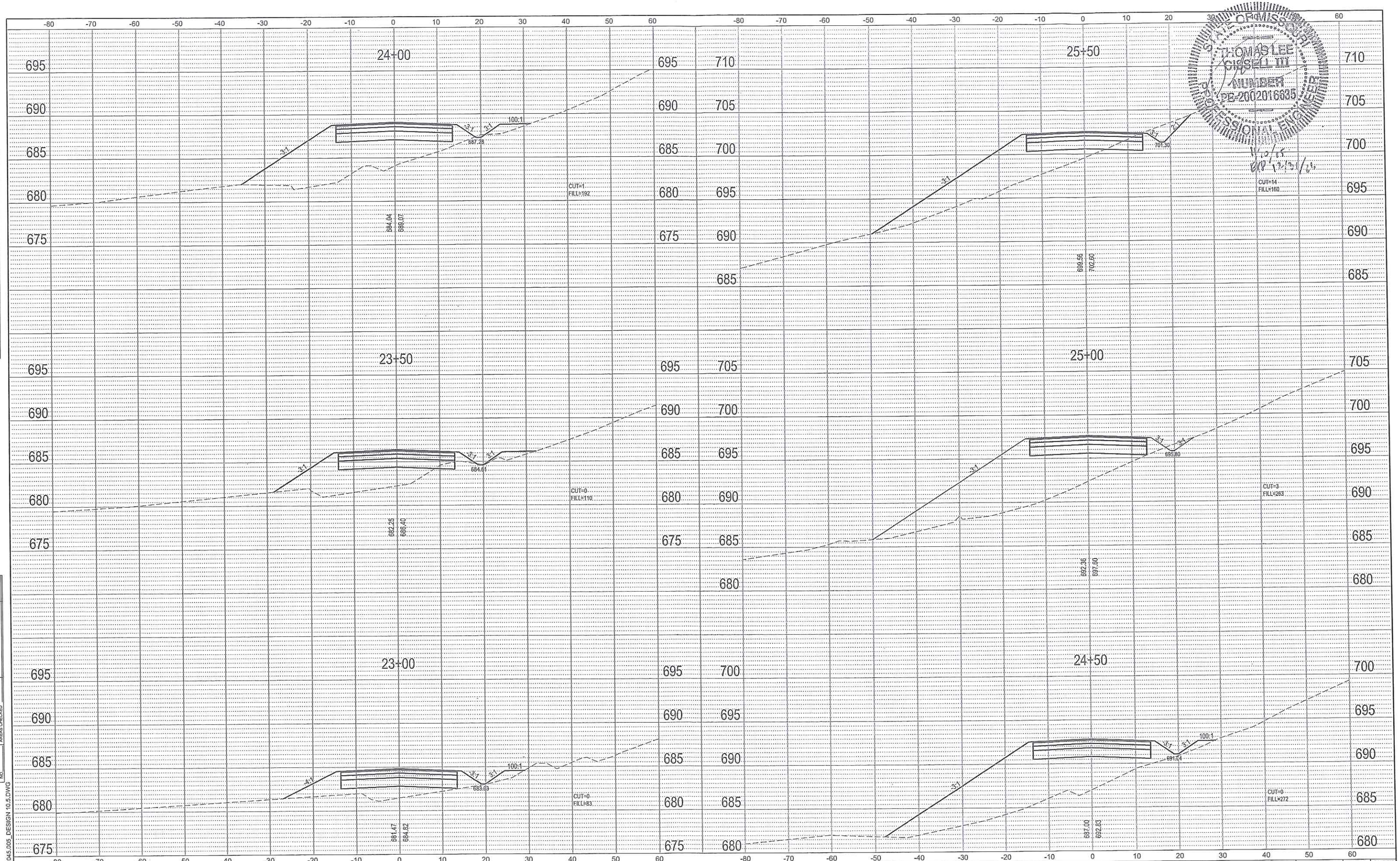
The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2

CROSS SECTIONS

SCALE: | SHEET NO. 3 OF 7 SHEETS | STA. 20+00 TO STA. 22+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
—	- - -	ST. LOUIS	19	15
		MISSOURI		



STATE OF MISSOURI
THOMAS LEE GIDSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER
11/13/15
DO NOT RENEW 12/31/16

FINAL SURVEY	NO.	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE

ORIGINAL SURVEY	NO.	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE

FILE NAME = 12045.005_DESIGN 10.5.DWG

OATES ASSOCIATES
Engineering + Architecture
www.oatesassociates.com
MISSOURI DESIGN FIRM LICENSE NO. 001166

USER NAME = TYLER HUFFMAN	DESIGNED - TLC	REVISED -
	DRAWN - TCH	REVISED -
PLOT SCALE = 6" = 1'	CHECKED - TLC	REVISED -
PLOT DATE = —	DATE - 2015-07-06	REVISED -

The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2

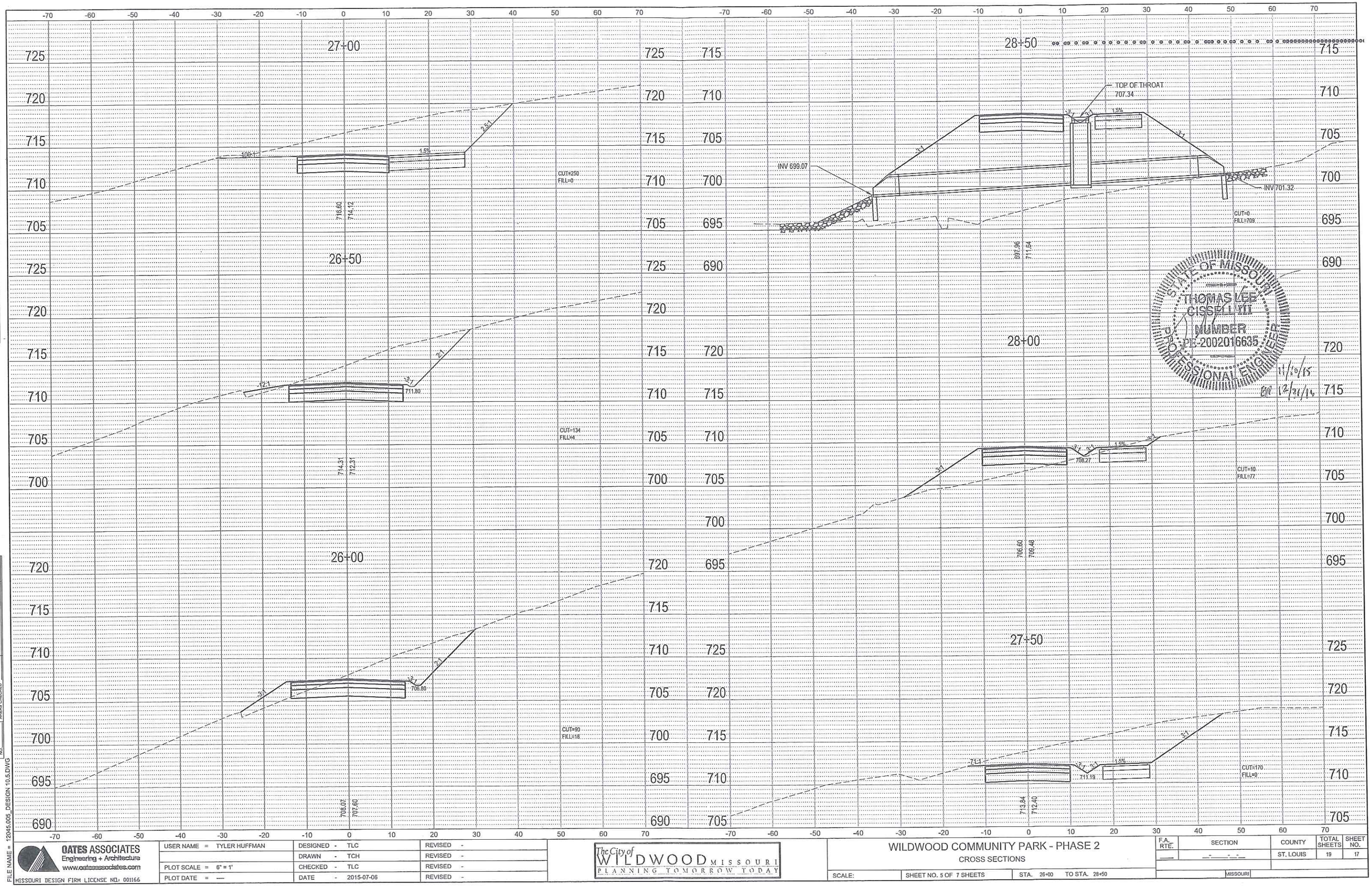
CROSS SECTIONS

SCALE:

SHEET NO. 4 OF 7 SHEETS

STA. 23+00 TO STA. 24+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
—	- - -	ST. LOUIS	19	16
		MISSOURI		



STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER
11/10/15
EW 12/21/15

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

FILE NAME = 12045.005_DESIGN 10.5.DWG

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MISSOURI DESIGN FIRM LICENSE NO. 001166

USER NAME = TYLER HUFFMAN	DESIGNED - TLC	REVISED -
	DRAWN - TCH	REVISED -
PLOT SCALE = 6" = 1'	CHECKED - TLC	REVISED -
PLOT DATE = —	DATE - 2015-07-06	REVISED -

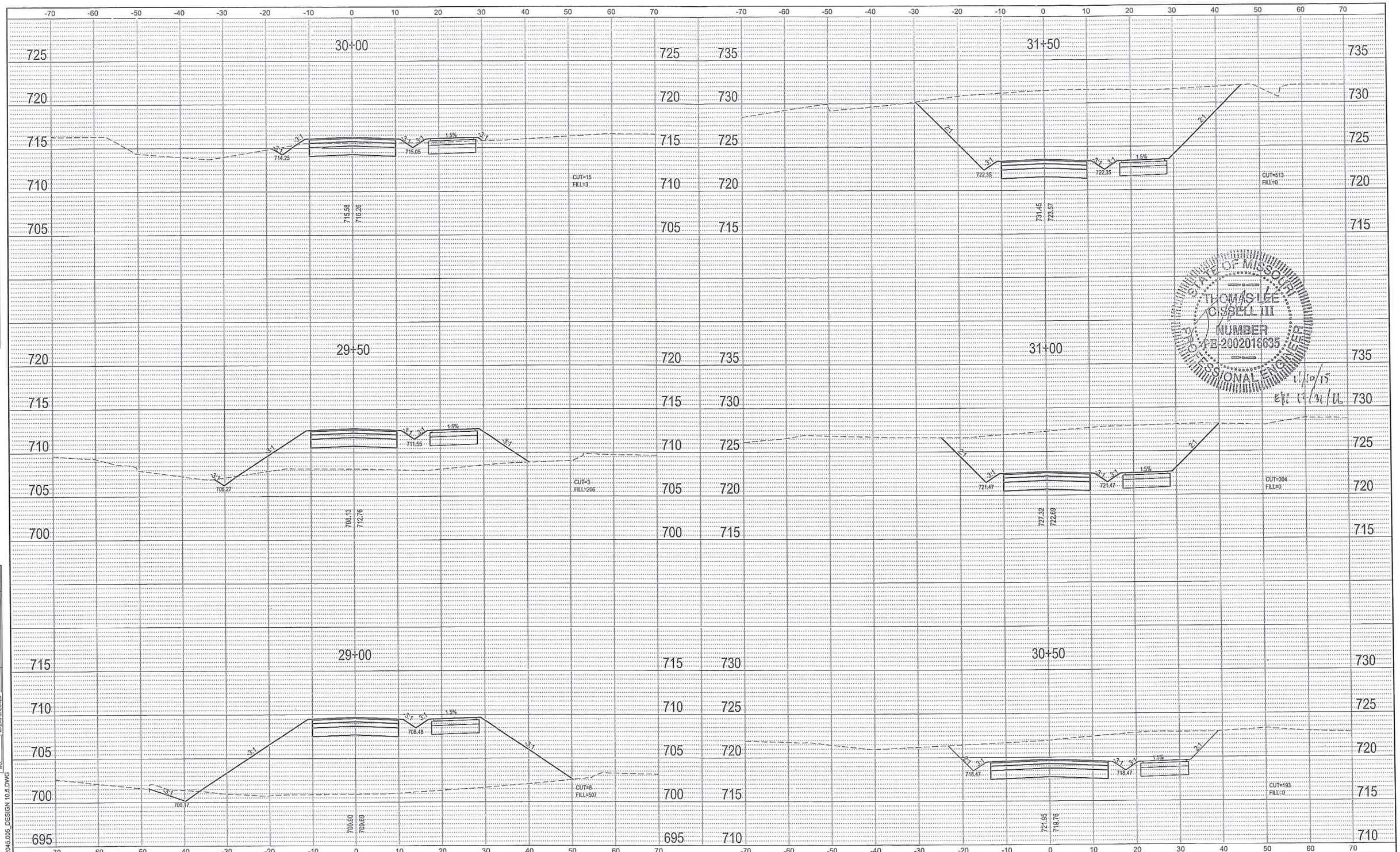
The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2

CROSS SECTIONS

SCALE: | SHEET NO. 5 OF 7 SHEETS | STA. 26+00 TO STA. 28+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
—	— — — —	ST. LOUIS	19	17
		MISSOURI		



FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

FILE NAME = 12045.005_DESIGN 10.5.DWG

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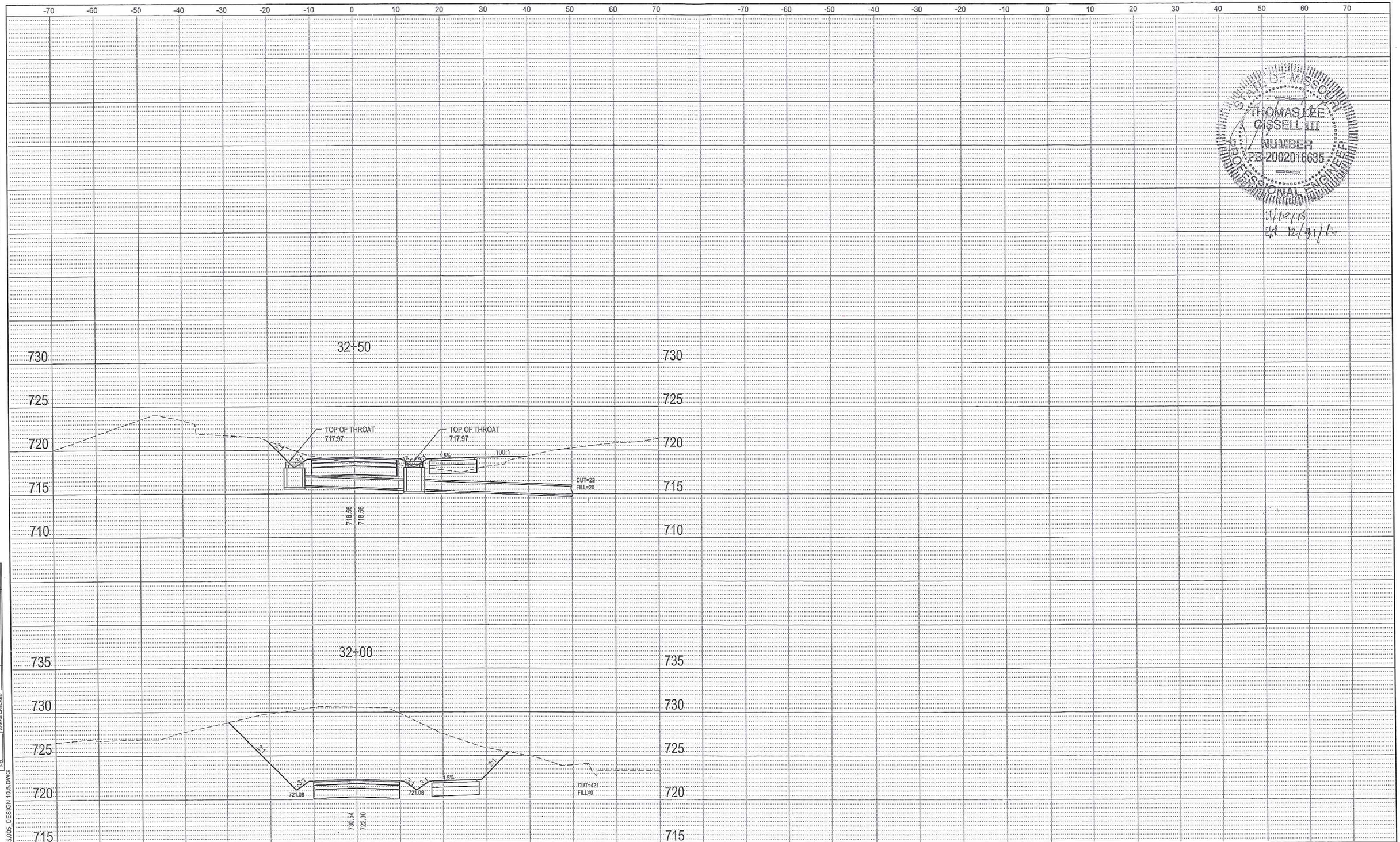
USER NAME = TYLER HUFFMAN	DESIGNED - TLC	REVISED -	
	DRAWN - TCH	REVISED -	
PLOT SCALE = 6" = 1'	CHECKED - TLC	REVISED -	
PLOT DATE = —	DATE - 2015-07-06	REVISED -	

The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2
CROSS SECTIONS

SCALE: | SHEET NO. 6 OF 7 SHEETS | STA. 29+00 TO STA. 31+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
—	- - -	ST. LOUIS	19	18
		MISSOURI		



STATE OF MISSOURI
THOMAS LEE CISSELL III
NUMBER PE-2002016635
PROFESSIONAL ENGINEER

11/10/15
12/31/16

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

FILE NAME = 12045.005_DESIGN 10.5.DWG

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MISSOURI DESIGN FIRM LICENSE NO. 001166

USER NAME = TYLER HUFFMAN	DESIGNED - TLC	REVISED -	
	DRAWN - TCH	REVISED -	
PLOT SCALE = 6" = 1'	CHECKED - TLC	REVISED -	
PLOT DATE = —	DATE - 2015-07-06	REVISED -	

The City of WILDWOOD MISSOURI
PLANNING TOMORROW TODAY

WILDWOOD COMMUNITY PARK - PHASE 2
CROSS SECTIONS

SCALE: | SHEET NO. 7 OF 7 SHEETS | STA. 32+00 TO STA. 32+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ST. LOUIS	19	19
		MISSOURI		

WILDWOOD

Recommendation Report

<<< Site Development Plan Package >>>

City of Wildwood Planning and Zoning Commission – Site Plan Subcommittee

March 21, 2016 Executive Meeting

Petition No.:	P.Z. 21, 22, and 23-14 Stone Mill
Original Petitioner:	Lombardo Homes of St. Louis, L.L.C., Skip Stone, 2299 Technology Drive, Suite 150, O'Fallon, Missouri 63368, c/o SmithAmundsen, L.L.C., Brad Goss, 120 South Central Avenue, Suite 700, St. Louis, Missouri 63105
Current Owner and Petitioner:	Whalen Custom Homes, Michael Whalen, 338 South Kirkwood Road, Kirkwood, Missouri 63122
Zoning District(s):	R-1A 22,000 Square Foot Residence District, with a Planned Residential Overlay District (PRD)
Location:	West side of Center Avenue, south of Manchester Road
Street Addresses:	2710 West Avenue
Locator Number:	24V420010
Ward:	Eight
Tract Size:	8.01 acres
Site Plan Subcommittee Meeting Date:	March 7, 2016
Approval Date of the Plan Package:	March 21, 2016 by a vote of 7 to 0 (Voting Aye – Renner, Lee, Archeski, Gargnani, Liddy, Woerther, and Bopp)
Petitioner's Request:	Approval of the Site Development Plan (SDP) and related items to allow for the development of this twelve (12) lot, single-family residential subdivision, with common ground and public space areas.
Subcommittee Recommendation:	Approval of a Site Development Plan (SDP) and related items to allow for the development of this twelve (12) lot, single-family residential subdivision, with common ground and public space areas.
Background on Proposal/Project:	The Site Plan Subcommittee of the Planning and Zoning Commission held its meeting on this submittal package at its March 7, 2016 Executive Meeting, where the petitioner from Whalen Custom Homes and Department of Planning staff were in attendance as well. The Department of Planning began the discussion of the Site Development Plan (SDP) and related items by providing a history of the site as the

former Grover Maintenance Facility for the Missouri Department of Transportation used for parking of vehicles and equipment, office related uses, and storage of materials such as soil, cinder, and salt. The Department also described the change in its ownership from Lombardo Homes to Whalen Custom Homes. The Department then described the plan and packet of the related information that had been provided for tonight's meeting to assist in its discussion. Highlights of this review included the plan sheets, review/comment letters from the City, service provider letters, with comments, and the approved site-specific ordinance, which governs the property and its future use.

Additionally, at this meeting, the Department of Planning provided an overview of this proposed site for a residential subdivision of twelve (12) lot, single family homes. The Department also explained the history associated with its zoning, which included a text change of the Master Plan to change the definition of 'Suburban Residential' to include this site that was previously designated NU-Non-Urban Residence. This text change allowed for this site, with its unique placement between existing high density residential communities and the Town Center's boundary, to develop in a way that provides an appropriate transition, which is always a priority for the City.

The Department then described the design components associated with the proposed plan, including its compliance to the Planned Residential Development Overlay District (PRD) ordinance approved by the City Council. After this review, the Department then identified key points on the Site Development Plan (SDP) relating to its major characteristics and components. These points included the following:

>>> Development Characteristics <<<

1. The property is 8.01 acres in size and located on the west side of Center Avenue, south of Manchester Road and has been authorized for twelve (12) single family homes on individual lots. The minimum lot size of any lot is 15,000 square feet, with a minimum lot width of one hundred feet (100'), excepting those located in the cul-de-sac area. All proposed lots, including those in the cul-de-sac area, achieve a minimum lot width of one hundred feet (100').
2. The lot sizes of these homesites range from approximately 15,000 square feet to over 36,000 square feet, and maintain a density of 1.62 units per acre, which is acceptable given the approved density of 1.75 units per acre.
3. The project includes one (1) flag lot – Lot 12 – as approved by the governing ordinance, which fronts on the undeveloped southern section of Center Avenue that is to be vacated and dedicated to the City of Wildwood as public open space. The shared drive aisle that will access Lot 11 and the flag lot –Lot 12 – will be maintained by the future Stone Mill Subdivision Homeowners Association.
4. The lots will be served by Center Avenue, from Manchester Road and have direct access to Bordeaux Estates Subdivision on Bordeaux Walk Way.

Additionally, the petitioner is not permitted to use East Avenue or Bordeaux Walk Way, from Manchester Road for any construction-related traffic to the development of these twelve (12) lots.

5. The necessary amount of right of way for the portion of Center Avenue along this site will be dedicated to create a forty foot (40') wide public right of way area and the construction of a twenty-two foot (22') wide pavement section, with a six foot (6') wide concrete sidewalk, located on the west side of the street. All of these components will be adhere to the City of Wildwood's Design Criteria Handbook and associated requirements, as directed by the Department of Public Works.
6. Center Avenue is to be dedicated as a public roadway, however, the City and Petitioner plan to maintain its rural character, which is a response to the concerns of the property owners to the north of the site. Improvements will be to a minimum standard for safety and durability. The City's consultant is currently preparing designs for improvements to Center Avenue, but those designs are not complete at this time.
7. The internal public street, Falstone Mill Court, aligns with Bordeaux Walk Way in the northwest quadrant of the site and curves to the southwest quadrant of the site, terminating at a cul-de-sac with a landscaped island. The right of way to be dedicated as public is thirty-five foot (35') wide. The roadway is twenty-two foot (22') wide concrete pavement with rolled curbs, at the direction of the Department of Public Works. Parking will be restricted to one side, at the direction of Metro West Fire Protection District.
8. The petitioner is proposing side-entry garages, with carriage type designs, with windows, as determined appropriate by the City's Architectural Review Board. By providing these two enclosed parking spaces, the Petitioner meets the minimum Off-Street Parking and Loading Requirements for R-1A 22,000 square foot Residence District.
9. The petitioner is required to provide 20,908.80 square feet of public space and has exceeded that amount by providing 32,131 square feet of public space. This was achieved partly by vacating sections of West Avenue and Center Avenue, which are currently paper streets, and dedicating them as publicly held common ground and by providing stormwater best management practices. An important component to the public space provided for this project is the dedication of a twenty foot (20') wide trail easement and construction of a ten foot (10') wide multiple use asphalt trail, which runs along the property's norther boundary and connects West Avenue to the proposed sidewalk on Center Avenue and existing pedestrian network in Bordeaux Estates Subdivision.
10. The stormwater management plan for this site includes a 1,644 square foot bio-retention basin located in a 12,098 square foot stormwater maintenance easement. There is an outfall area located on the property line between Lots 4 and 5 that flows into the BMP Reserve Area located in the northwest corner of the site. The outfall from the BMP Reserve Area flows north to a culvert under the proposed multiple use asphalt trail. The Department has notified the Petitioner that it is concerned about this outfall area and advised

them to ensure the design is functional and will not damage the trail and that this must be approved by Department of Public Works, upon submittal of Improvement Plans.

11. Given the prior use of the site by Missouri Department of Transportation, much of the site has been altered, and the Petitioner is proposing limited grading.
12. The design of the lots, based upon the Natural Resource Protection Standards, preserves almost all of the existing woodlands located along the south and west sides of the site. Additionally, the governing ordinance for this site requires a minimum fifty foot (50') non-disturbed buffer area along the property's southern boundary line with Westridge Oaks Subdivision and a thirty foot (30') non-disturbed buffer area along the property's western boundary line. Both of these non-disturbed buffer areas preclude any utility extensions through them.
13. The petitioner is proposing one (1) subdivision entrance monument sign to be located in the northeast corner of the subdivision, at Center Avenue and the proposed public roadway, Falstone Court. The sign is located in an easement and will be reviewed under a separate permit.
14. The site-specific ordinance governing this project requires the proposed architectural design, character, and style of all dwellings units to adhere to the City of Wildwood's Architectural Guidelines for all districts, with no vinyl siding to be allowed on any dwelling. All materials to be used on any façade of these residential units are to be fiber cement siding, wood, brick, and/or stone.
15. The initial petitioner, Lombardo Homes, provided to the City Phase I and partial Phase II Environmental Assessments, given the past use of the site. The results of these assessments identified salt storage that occurred on the site by the State as an issue for remediation.
16. The petitioner has provided approvals from Metro West Fire Protection District. In the Site Plan Subcommittee Executive Session held on March 7, 2016, the Petitioner had not yet submitted comments from Metropolitan St. Louis Sewer District (MSD). The Petitioner has since submitted those comments, with MSD approval and they have been included as an attachment to this recommendation report.
17. The lighting plan for this project is minimal, with only three (3) proposed street lights. The lighting plan has been reviewed by the City's consultant and meets the City's outdoor lighting regulations.
18. The site will be served entirely by public services and will not create a burden on existing homes, in this regard.

The Site Plan Subcommittee Members discussed this proposed development and its design and responded to this presentation with several questions relating to its plan components and related items, which included the following: the improvements on Center Avenue, the stormwater outfall area near the trail, the public space created by the vacation of Center Avenue in relation to the adjacent

public space located in Bordeaux Estates Subdivision, the Phase I and Phase II Environmental Assessments, maintenance of the drive aisle accessing the flag lot.

The petitioner and the Department of Planning staff responded to these comments and questions by addressing them as follows:

- The Department explained improvements to Center Avenue will be completed in partnership with the Petitioner. The City's consultant is currently preparing designs for improvements to Center Avenue, but those designs are not complete at this time. The Department will present the Improvement Plans for Center Avenue to the Planning and Zoning Commission at the appropriate time, as is the case with all capital improvement projects.
- The Petitioner indicated a functional design for the outfall area near the trail will be submitted on the required Improvement Plans.
- The future use of the public space in Bordeaux Estates Subdivision and adjacent public space to be created by the vacation and dedication of the southern portion of Center Avenue has yet to be determined.
- The Petitioner indicated the Phase I and Phase II Environmental Assessments had been reviewed. The Petitioner stated approximately six hundred (600) cubic yards of soil would be remediated to address the issues in the report caused by the storage of salt on the site by the State.
- The Department explained the shared drive aisle that will access Lot 11 and the flag lot, Lot 12, will be maintained by the future Stone Mill Subdivision Homeowners Association.

Site Plan Subcommittee's Recommendation:

The Site Plan Subcommittee of the Planning and Zoning Commission has considered the submitted plans, which includes the Site Development Plan (SDP) and related items and believes them to be in compliance with the site-specific ordinance governing this property and the City's Zoning Ordinance and Subdivision and Development Regulations. This compliance leads the members of the Site Plan Subcommittee to support approval of this complement of plans, thereby allowing the Department of Planning to sign and release them. This determination is based upon review of these plans by the Departments of Planning and Public Works and the comments that were generated by such. These reviews by the respective departments addressed the requirements set forth by City codes. Additionally, other service providers have provided comments that have been incorporated into the plan as well.

The Site Plan Subcommittee would also note the proposal for this site reinforces the priority of the City to provide appropriate transitions between the Town Center Area and existing residential communities. Additionally, this proposal provides improvements to Center Avenue while maintaining its rural character, which is of

importance to the property owners to the north of the site. Lastly, the proposed multiple use trail on the northern boundary of the site enhances the pedestrian and bicycle network in the City of Wildwood by connecting West Avenue to Center Avenue and will be a valuable amenity for the surrounding communities.

Summary and Conditions of Action:

This recommendation is contingent upon all other required codes, regulations, and standards of the City relating to this property and the development of land being met during the construction of the buildings and public space areas. The Site Plan Subcommittee is again recommending approval of the Site Development Plan and related items by the Planning and Zoning Commission at this time, with certain conditions that have been identified and noted above. This recommendation is based upon the completion of all required improvements, in accordance with the plans approved for such by the City of Wildwood.

Attachments And Enclosures:

Attachment A –Site Development Plan (SDP) and Related Items
Attachment B – Site Specific Ordinance
Attachment C – Background Information

ATTACHMENT A

Site Development Plan (SDP) and Related Items

Stone Mill

A TRACT OF LAND IN THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12,
TOWNSHIP 44 NORTH, RANGE 3 EAST
CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI

SITE DEVELOPMENT PLAN

R1-A RESIDENCE DISTRICT, WITH A PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT (PRD)

LEGEND

EXISTING		PROPOSED
542	CONTOURS	542
X536	SPOT ELEVATIONS	+536.0
	CENTER LINE	
	BUILDINGS, ETC.	
	TREE LINE	
x x	FENCE	x x
	STORM SEWERS	
	SANITARY SEWERS	
EX. CI	CATCH BASIN	CI NO.
EX. AI	AREA INLET	AI NO.
EX. GI	GRATED INLET	GI NO.
EX. MH	STORM MANHOLE	MH NO.
EX. SAN MH	SANITARY MANHOLE	MH NO.
EX. FE	FLARED END SECTION	FE NO.
CO	CLEANOUT	CO
	LATERAL CONNECTION	
	UTILITY OR POWER POLE	
	FIRE HYDRANT	
	TEST HOLE	
	PAVEMENT	
	GAS MAIN & SIZE	(2"G)
	WATER MAIN & SIZE	(6"W)
	TELEPHONE	(T)
E	ELECTRIC (U) UNDERGROUND	(E)
OHW	ELECTRIC (O) OVERHEAD	(OHW)
	FLOW LINE	
	TO BE REMOVED	TBR
TC	TOP OF CURB	(TC)
	SWALE	
	LIGHT STANDARD	
	STREET SIGN	
P.S.	PARKING STALLS	P.S.
ELEC	YARD LIGHT	ELEC
TRM	TURF REINFORCEMENT MAT	

DEVELOPMENT NOTES:

LOCATOR NUMBER: 24V420010

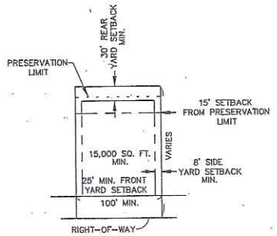
1. SITE ADDRESS: 2710 WEST AVENUE
   OWNER: WHALEN CUSTOM HOMES
   338 S. KIRKWOOD RD.
   KIRKWOOD, MO 63122
2. EXISTING ZONING: NU – NON-URBAN RESIDENCE DISTRICT
3. PROPOSED ZONING: R-1A 22,000 SQUARE FOOT RESIDENTIAL DISTRICT WITH A PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT (PRD)
4. PROPOSED USE: SINGLE FAMILY RESIDENTIAL
5. GROSS AREA OF SITE: 8.03 ACRES
   LESS RIGHT-OF-WAY: <0.65> ACRES
   NET AREA: 7.38 ACRES
6. DENSITY = 12 LOTS/7.38 ACRES = 1.62 LOTS/ACRE
   7.38 ACRES x 1.75 UNITS/ACRE = 12.915 UNITS, 12 LOTS PERMITTED
7. NUMBER OF LOTS PROPOSED: 12
8. LOT SIZE: 15,000 S.F. MINIMUM
10. AVERAGE LOT SIZE: 25,301 S.F.
11. PARKING REQUIREMENTS:
    2/UNIT: 24 SPACES
    PROVIDED: 24 SPACES

FLOOD NOTE:

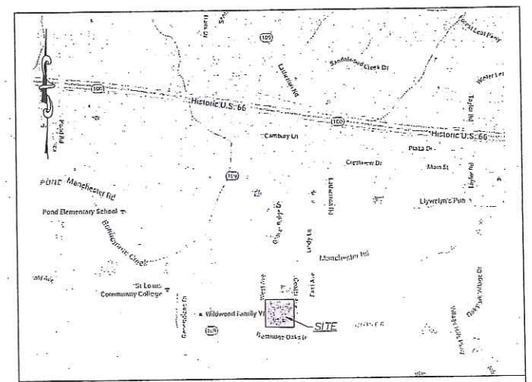
ACCORDING TO THE FLOOD INSURANCE RATE MAP ADOPTED BY FEMA (PANEL NUMBER 29189C0260K EFFECTIVE FEBRUARY 4, 2015), THIS PROPERTY LIES ENTIRELY OUTSIDE THE 500-YEAR FLOODPLAIN.

TREE PRESERVATION CALCULATIONS:

EXISTING TREE CANOPY: 1.87 AC.
TREE CANOPY REMOVED: 0.15 AC.
REMAINING TREE CANOPY: 1.72 AC. (92%)



TYPICAL LOT
NOT TO SCALE



LOCATION MAP
(NOT TO SCALE)

GENERAL NOTES:

1. THIS SITE IS IN THE FOLLOWING DISTRICTS AND UTILITY SERVICE AREAS:
   WARD EIGHT
   METRO WEST FIRE PROTECTION DISTRICT
   ST. LOUIS COUNTY POLICE DEPARTMENT – WILDWOOD PRECINCT
   ROCKWOOD R-6 SCHOOL DISTRICT
   METROPOLITAN ST. LOUIS SEWER DISTRICT
   AMEREN MISSOURI
   AT&T
   LACLEDE GAS COMPANY
   MISSOURI AMERICAN WATER COMPANY
   CHARTER CABLE SERVICES
2. SANITARY SEWER CONSTRUCTION AND CONNECTIONS SHALL BE AS APPROVED BY THE METROPOLITAN ST. LOUIS SEWER DISTRICT AND IN ACCORDANCE WITH THE STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES.
3. STORMWATER SYSTEM DESIGN SHALL BE PURSUANT TO THE CITY OF WILDWOOD AND METROPOLITAN ST. LOUIS SEWER DISTRICT REQUIREMENTS AND SHALL DISCHARGE AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE NATURAL DISCHARGE POINTS.
4. ALL GRADING AND DRAINAGE SHALL BE PER CITY OF WILDWOOD AND METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARDS.
5. NO SLOPES SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL), UNLESS JUSTIFIED BY GEOTECHNICAL REPORT WHICH HAS BEEN ACCEPTED/APPROVED BY THE CITY OF WILDWOOD. NO SLOPES WITHIN CITY OF WILDWOOD RIGHT-OF-WAY SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL).
6. ALL UTILITIES WILL BE LOCATED UNDERGROUND WITHIN THIS SITE.
7. ALL STREETS WILL BE CONSTRUCTED TO CITY OF WILDWOOD SPECIFICATIONS. ALL PROPOSED STREETS WILL BE PUBLIC AND SHALL BE 22' WIDE PAVEMENT, NO CURBS IN A 35' WIDE ROADWAY RIGHT-OF-WAY.
8. NO PLANTS, TREES, SIGNS, ETC. GREATER THAN 36" IN HEIGHT SHALL BE PLACED WITHIN THE SIGHT DISTANCE TRIANGLE.
9. MAXIMUM HEIGHT OF STREET LIGHTING FIXTURES SHALL BE 16 FEET AND SHALL BE IN COMPLIANCE WITH THE CITY OF WILDWOOD CODE REQUIREMENTS.
10. STREET TREES AND SITE LANDSCAPING SHALL BE AS REQUIRED BY THE CITY OF WILDWOOD AND COMPLY WITH ITS TREE MANUAL AND SUSTAINABLE PLANTINGS GUIDE.
11. BUILDING HEIGHT SHALL NOT EXCEED 2 STORIES OR 24 FEET.
12. THE NEAREST MAJOR INTERSECTION IS MANCHESTER ROAD AND STATE ROUTE 109 APPROXIMATELY 0.5 MILES TO THE NORTHWEST.
13. PHASE I & II ENVIRONMENTAL REPORT HAVE BEEN PROVIDED TO CITY OF WILDWOOD.
14. ENTRANCE, STREET INTERSECTION, CUL-DE-SAC SHALL BE CONSTRUCTED TO CITY OF WILDWOOD STANDARDS.
15. THE IMPROVEMENTS FOR CENTER AVENUE, INCLUDING THE ENGINEERING AND DESIGN, WILL BE SUBMITTED ON A SEPARATE PLAN. DESIGN, ENGINEERING, AND CONSTRUCTION COSTS ARE TO BE SHARED BETWEEN DEVELOPER AND THE CITY OF WILDWOOD.

BENCHMARK INFORMATION:

STL CO BM 16066
NAVD88 (SLC2011a) ELEV = 783.32 FtUS (or) 238.756 METER
NAVD29 ELEV = 783.46 FtUS
"L" ON THE SOUTHWEST CORNER OF A CONCRETE HEADWALL; 30' WEST OF THE CENTERLINE OF HIGHWAY 109, 75' NORTH OF TURKEY TRACK ROAAD AND 1.4 MILES NORTH OF WOODS ROAD.
SP MO EAST N=3039385± E=2373218± METER – ESTIMATED
ROUGH NAD83 LAT=38.572082°±(N/+) LONG=90.645501°±(W/–)

STL CO BM 16109
NAVD88 (SLC2011a) ELEV = 794.47 FtUS (or) 242.156 METER
NAVD29 ELEV = 794.70 FtUS
"L" ON THE WEST SIDE OF A CONCRETE PORCH OF BUILDING AT #16957 MANCHESTER ROAD; 21' EAST OF THE CENTERLINE OF EATHERTON ROAD AND 39' NORTH OF THE CENTERLINE OF MANCHESTER ROAD.
SP MO EAST N=3044001± E=2380581± METER – ESTIMATED
ROUGH NAD83 LAT=38.576234°±(N/+) LONG=90.637052°±(W/–)

SHEET INDEX

1.0	COVER SHEET
2.0	SITE PLAN
3.0	GRADING PLAN
4.0	DETAILS
5.0-5.1	ORDINANCE
6.0	NATURAL RESOURCE PROTECTION PLAN
7.0	STORMWATER POLLUTION PROTECTION PLAN
7.1	SWPP NOTES & DETAILS

PROPERTY DESCRIPTION:

A TRACT OF LAND IN THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF A TRACT OF LAND DESCRIBED IN A DEED TO LEOLA MARY SCHLEMPER REVOCABLE TRUST RECORDED IN DEED BOOK 18787 PAGE 1614 OF THE ST. LOUIS COUNTY RECORDS, SAID POINT BEING ON THE WEST LINE OF CENTER (30' WIDE) AVENUE; THENCE WITH THE WEST LINE OF CENTER AVENUE, BEING 15' WEST OF AND PARALLEL TO THE CENTERLINE THEREOF, SOUTH 00°33'53" WEST 591.57 FEET TO THE SOUTH LINE OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12, SAID POINT ALSO BEING THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE AS PER THE PLAT THEREOF RECORDED IN PLAT BOOK 338 PAGE 53 OF THE ST. LOUIS COUNTY RECORDS; THENCE DEPARTING THE WEST LINE OF CENTER AVENUE WITH THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE, NORTH 88°24'12" WEST 599.97 FEET TO A POINT ON THE EAST LINE OF WEST (30' WIDE) AVENUE; THENCE WITH THE EAST LINE OF WEST AVENUE, BEING 15' EAST OF AND PARALLEL TO THE CENTERLINE THEREOF AND 30 FEET EAST OF AND PARALLEL TO THE WEST LINE OF SECTION 12, NORTH 00°30'34" EAST 573.71 FEET TO THE SOUTHWEST CORNER OF THE AFORESAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT; THENCE WITH THE SOUTH LINE OF SAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT, NORTH 89°53'28" EAST 600.46 FEET TO THE POINT OF BEGINNING AND CONTAINING 349,670 (8.0273 ACRES), MORE OR LESS, ACCORDING TO A SURVEY BY THE STERLING COMPANY DURING THE MONTH OF JANUARY 2013 UNDER ORDER NUMBER 12-11-311.

UTILITY INFORMATION:

UTILITIES SHOWN HAVE BEEN TAKEN FROM AVAILABLE SURVEYS, UTILITY COMPANY MAPS AND PHYSICAL PROPERTY INSPECTION. THE LOCATIONS AND FACILITIES SHALL BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE ADDITIONAL UTILITIES THAT HAVE NOT BEEN SHOWN ON THIS SURVEY. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION.

MISSOURI ONE CALL SYSTEM, INC. 1-800-344-7483 STOP. CALL BEFORE YOU DIG!

CALL 1-800-DIG-RITE (MISSOURI ONE CALL) TO HAVE LOCATIONS MARKED IN THE FIELD (SUBSCRIBING UTILITIES REQUIRE 48 HOURS NOTICE PRIOR TO CONSTRUCTION).

CITY OF WILDWOOD
MAR 02 2016
DEPT. OF PLANNING & PARKS

MSD P# 30612-00 MSD BASEMAP: 24V1 ORDINANCE #2088

Special Inspections, LLC
16624 Old Chesterfield Rd.
St. Louis, MO. 63017
(636)751-3161
SpecialInspections.info

STATE OF MISSOURI
MICHAEL T. MANNEN
NUMBER E-14922
REGISTERED PROFESSIONAL ENGINEER
2/29/16

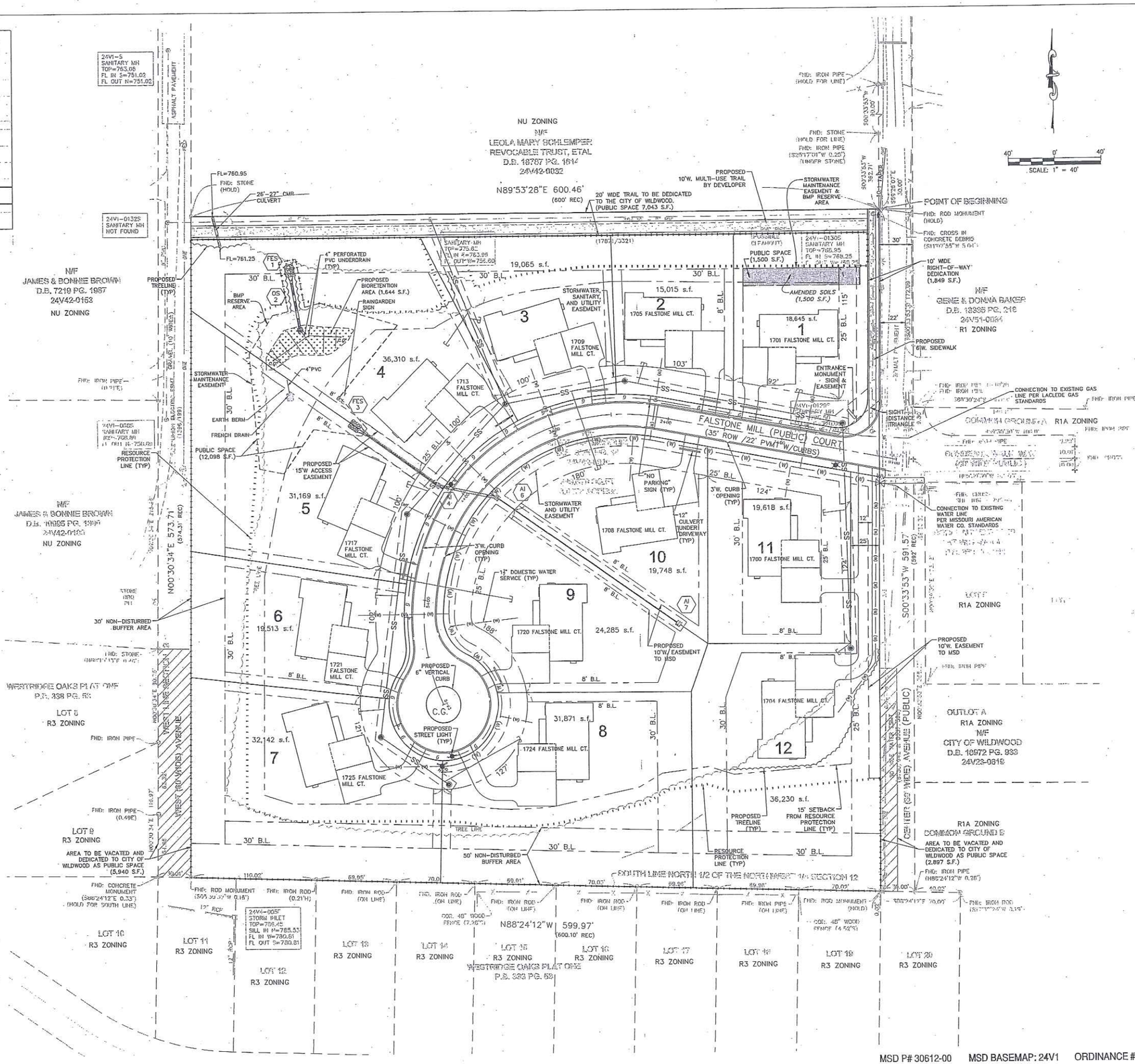
DEVELOPER:
Whalen Custom Homes
338 S. Kirkwood Rd.
Kirkwood, MO 63122
314-575-7645

PROJECT TITLE AND LOCATION:
Stone Mill
2710 West Avenue
Wildwood, MO 63040

JOB NUMBER: 15-001
DATE: 9/10/2015
DRAWN BY: TBM
CHECKED BY: MTM
SHEET TITLE: Cover Sheet
SHEET NUMBER: 1.0

Standard for Public Space Calculation:	Four (4) acres for every one hundred (100) Single Family Dwelling Units (1,742.4 square feet per new singel family dwelling)
Amount of Required Public Space	20,908.8 s.f.
Amount of Provided Public Space	32,131 s.f.
Multiple Use Trail	7,043 s.f.
Underground Detention Area	
Public Land Dedication	10,686 s.f.*
Privately-Held Common Ground	
List Installed Improvements	
Picnic Tables	
Benches	
Trash Receptacles	
Bicycle Racks	
Other:	
Other Public Space Items(if provided)	14,402 s.f.**
Fee In Lieu	

*Street Vacation(5,940+2,897)+R.O.W Ded.(1,849) =10,686 S.F.
**Common Ground (804)+BMP(12,098+1,500)=14,402 S.F.



MSD P# 30612-00 MSD BASEMAP: 24V1 ORDINANCE #2088

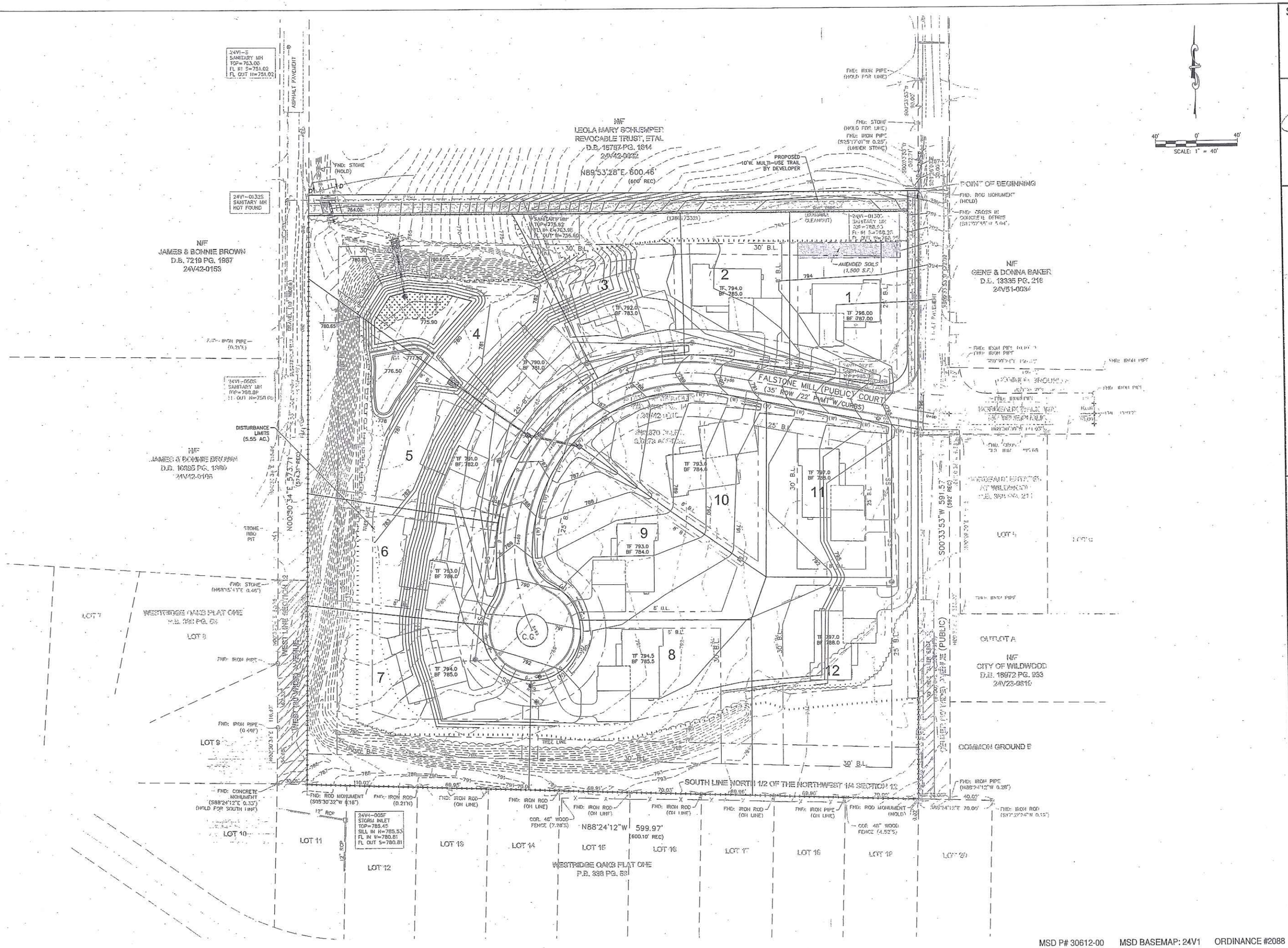
Special Inspections, LLC
16624 Old Chesterfield Rd.
St. Louis, MO. 63017
(636)751-3161
Specialinspections.Info

STATE OF MISSOURI — MICHAEL T. MANNEN — NUMBER PE-14922 — REGISTERED PROFESSIONAL ENGINEER
2/29/16

OWNER/DEVELOPER:
Whalen Custom Homes
338 S. Kirkwood Rd.
Kirkwood, MO 63122
314-575-7645

PROJECT TITLE AND LOCATION:
Stone Mill
2710 West Avenue
Wildwood, MO 63040

JOB NUMBER:	15-001
DATE:	9/10/2015
DRAWN BY:	TBM
CHECKED BY:	MTM
SHEET TITLE:	Site Plan
SHEET NUMBER:	2.0



MSD P# 30612-00 MSD BASEMAP: 24V1 ORDINANCE #2088

Special Inspections, LLC

16624 Old Chesterfield Rd.
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STATE OF MISSOURI
MICHAEL T. MAHONEY
NUMBER PE-14922
REGISTERED PROFESSIONAL ENGINEER

2/29/16

OWNER/DEVELOPER:

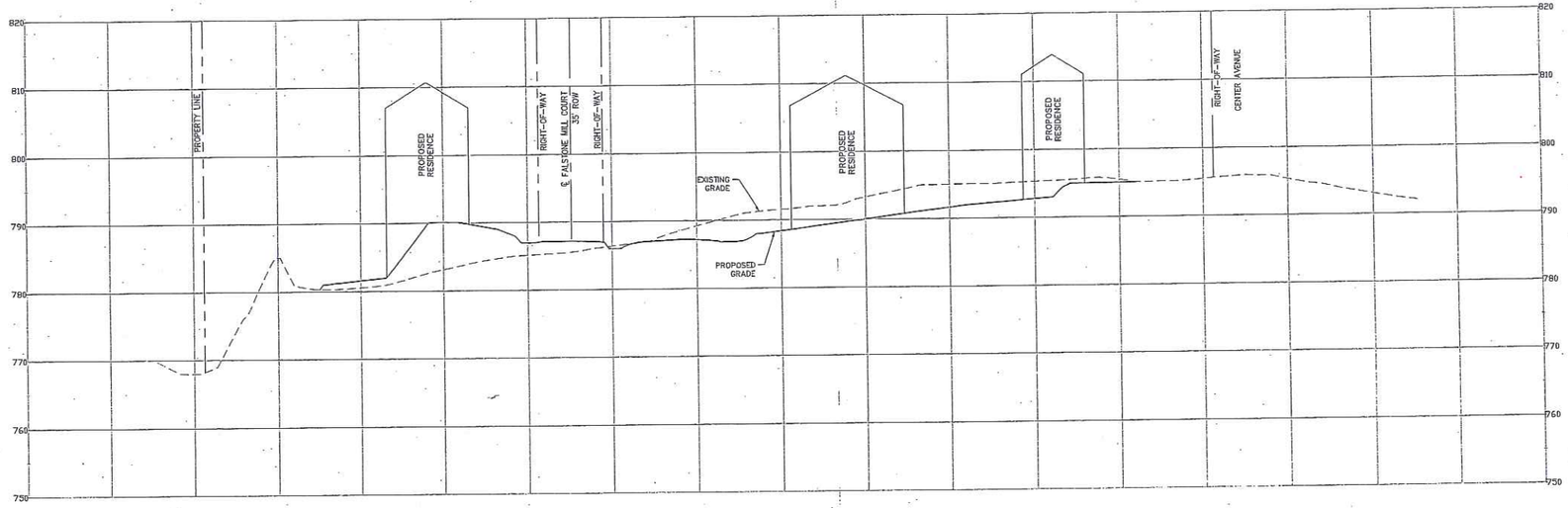
Whalen Custom Homes
338 S. Kirkwood Rd.
Kirkwood, MO 63122
314-575-7645

PROJECT TITLE AND LOCATION:

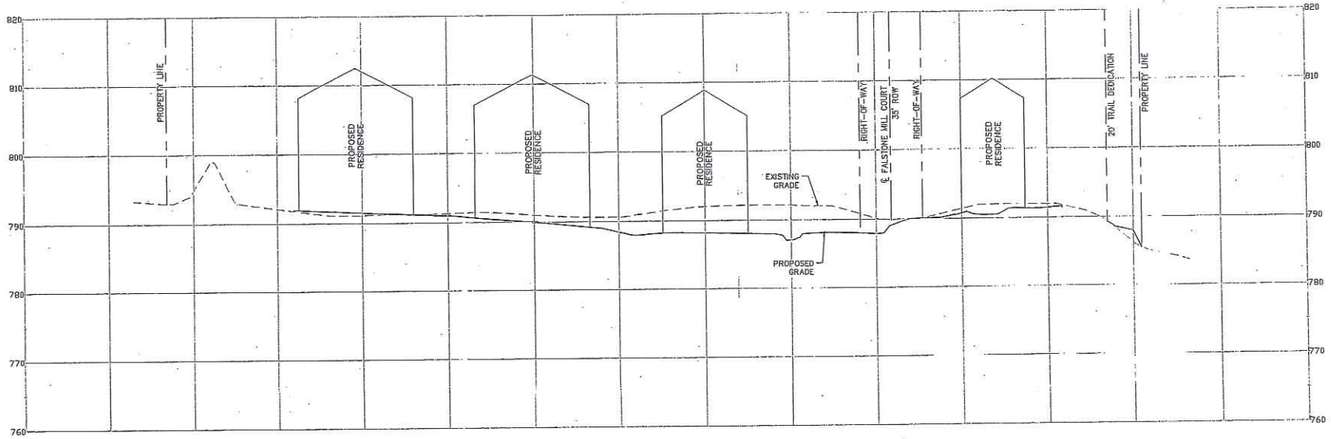
Stone Mill
2710 West Avenue
Wildwood, MO 63040

JOB NUMBER:	15-001
DATE:	9/10/2015
DRAWN BY:	TBM
CHECKED BY:	MTM
SHEET TITLE:	Grading Plan
SHEET NUMBER:	3.0

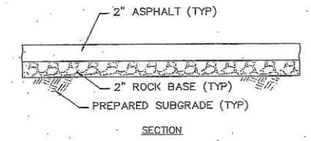
"NO PARKING" SIGN
SCALE: NOT TO SCALE



SITE CROSS SECTION A-A
SCALE: 1"=40' HORIZ.
1"=10' VERT.

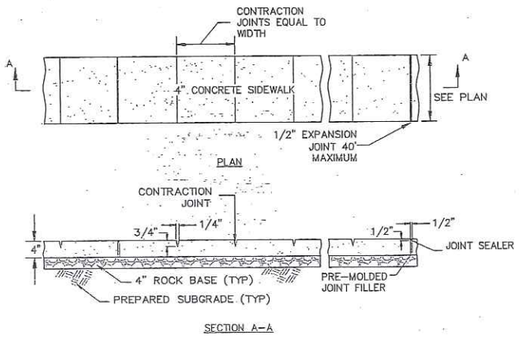


SITE CROSS SECTION A-A
SCALE: 1"=40' HORIZ.
1"=10' VERT.



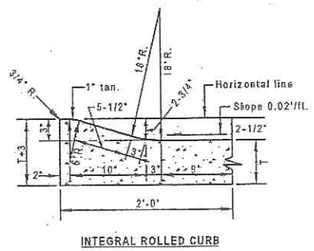
SECTION

ASPHALT TRAIL SECTION DETAIL
SCALE: NOT TO SCALE



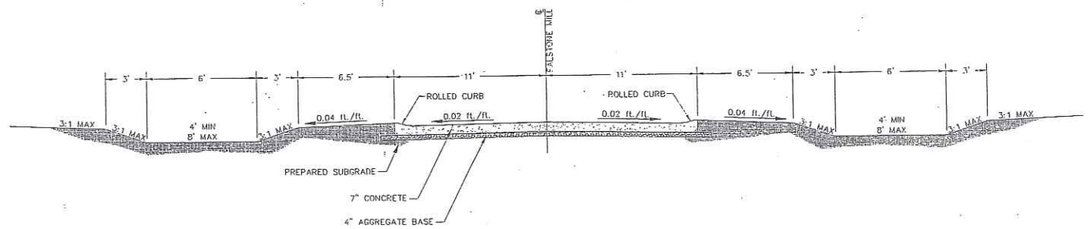
SECTION A-A

CONCRETE SIDEWALK DETAIL
SCALE: NOT TO SCALE



INTEGRAL ROLLED CURB

ROLLED CURB DETAIL
SCALE: NOT TO SCALE



STREET TYPICAL SECTION
FALSTONE MILL COURT
SCALE: NOT TO SCALE

MSD P# 30612-00 MSD BASEMAP: 24V1 ORDINANCE #2088

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STATE OF MISSOURI
MICHAEL T. MARTINEZ
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REGISTERED PROFESSIONAL ENGINEER
2/29/16

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314-575-7645

PROJECT TITLE AND LOCATION:
Stone Mill
2710 West Avenue
Wildwood, MO 63040

JOB NUMBER:	15-001
DATE:	9/10/2015
DRAWN BY:	TBM
CHECKED BY:	MTM
SHEET TITLE:	Details
SHEET NUMBER:	4.0

AMENDED BILL NO.: 2088 AMENDED ORDINANCE NO.: 2088

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING A CHANGE IN ZONING FROM THE NU NON-URBAN RESIDENCE DISTRICT TO THE R-1A 22,000 SQUARE FOOT RESIDENCE DISTRICT, WITH A PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT (PRD), TO ACCOMMODATE THE DEVELOPMENT OF AN 8.01 ACRE TRACT OF LAND THAT IS LOCATED ON THE WEST SIDE OF CENTER AVENUE, SOUTH OF MANCHESTER ROAD, WITH TWELVE (12) SINGLE FAMILY DETACHED DWELLINGS ON INDIVIDUAL LOTS, WITH COMMON GROUND AND PUBLIC SPACE AREAS, PER THE ACTION OF THE PLANNING AND ZONING COMMISSION, WHICH IS DETAILED IN ITS LETTER OF RECOMMENDATION DATED FEBRUARY 2, 2015 – P.Z. 21, 22, and 23-14 Stone Mill. (Ward Eight)

WHEREAS, the Master Plan of the City of Wildwood, Missouri contains four (4), major conceptual land use categories that are applied for properties located within its boundaries and these classifications determine how they may be developed in terms of use and density/intensity; and

WHEREAS, one (1) of these categories is the "Suburban Residential Area" that is applied to properties that had been zoned by St. Louis County, prior to the City's incorporation, for single family residential uses, at densities that varied from two (2) units per acre to five (5) units per acre, which included much of the Wildwood community east of State Route 109; and

WHEREAS, this pattern was recognized and the first City Council and Planning and Zoning Commission agreed to allow numerous surrounding properties that were vacant or undeveloped to be used for similar purposes, but at a density no greater than two (2) units per acre, which was substantially less than the past actions of St. Louis County; and

WHEREAS, in 2006, the density in the "Suburban Residential Area" was changed, as part of the Master Plan update process, to one (1) unit per acre from the earlier two (2) units per acre, which was due to the impact this density of units was causing on some of the remaining sites available for future development, particularly in the Strecker Road/Clayton Road Area; and

WHEREAS, long after this change in the text of the Master Plan, the petitioner purchased a site formerly owned by the State of Missouri and was advised of the limitations on its future density of residential units, but sought a change to the Master Plan definition of "Suburban Residential Area," so as to be able to develop it with a comparable density to that of the surrounding subdivisions; and

WHEREAS, this Master Plan modification to the definition of "Suburban Residential Area" would allow for the development of twelve (12) lots on the 8.01 acre site, which also requires its rezoning and the application of a Planned Residential Development Overlay District (PRD), all of which were applied for by Lombardo Homes; and

WHEREAS, with the applications for these three (3) items, the Planning and Zoning Commission held a public hearing on December 1, 2014 upon them, where comments were provided in this regard; and

WHEREAS, the Planning and Zoning Commission reviewed these comments and discussed considerations, with finally granting a change to the Master Plan's "Suburban Residential Area" definition to allow for this single property to have a density of up to 1.75 units per acre, given the circumstances of its location, i.e. abutting Town Center, other surrounding development densities, and available utilities; and

WHEREAS, with this action, the associated rezoning and application of special procedures permit were also recommended for approval by the Planning and Zoning Commission, which was reflected in its Letter of Recommendation on this matter, being dated February 2, 2015; and

WHEREAS, in this Letter of Recommendation, the Planning and Zoning Commission noted the rezoning and associated special procedures permit were reasonable at this location, given the Master Plan amendment had been supported, and would address a difficult property with a comparable development proposal in terms of type and density of use; and

WHEREAS, this action was undertaken in accordance with the requirements of the City's Charter and the State Statute for the consideration of modifications to Master Plans, General Plans, and Comprehensive Plans of a similar nature.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AS FOLLOWS:

Section One. The City of Wildwood Zoning Ordinances and Official Zoning District Maps, which are made a part hereof, are hereby, amended to reflect the change in zoning from the NU Non-Urban Residence District to the R-1A 22,000 square foot Residence District, with a Planned Residential Development Overlay District (PRD), as set forth in this ordinance, for the following described land:

A TRACT OF LAND IN THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF A TRACT OF LAND DESCRIBED IN A DEED TO LEOLA MARY SCHLEMPER REVOCABLE TRUST RECORDED IN DEED BOOK 18787 PAGE 1614 OF THE ST. LOUIS COUNTY RECORDS, SAID POINT BEING ON THE WEST LINE OF CENTER (30' WIDE) AVENUE; THENCE WITH THE WEST LINE OF CENTER AVENUE, BEING 15' WEST OF AND PARALLEL TO THE CENTERLINE THEREOF, SOUTH 00°33'53" WEST 591.57 FEET TO THE SOUTH LINE OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12, SAID POINT ALSO BEING THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE AS PER THE PLAT THEREOF RECORDED IN PLAT BOOK 338 PAGE 53 OF THE ST. LOUIS COUNTY RECORDS; THENCE DEPARTING THE WEST LINE OF CENTER AVENUE WITH THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE, NORTH 88°24'12" WEST 599.97 FEET TO A POINT ON THE EAST LINE OF WEST (30' WIDE) AVENUE; THENCE WITH THE EAST LINE OF WEST AVENUE, BEING 15' EAST OF AND PARALLEL TO THE CENTERLINE THEREOF AND 30 FEET EAST OF AND PARALLEL TO THE WEST LINE OF SECTION 12, NORTH 00°30'34" EAST 573.71 FEET TO THE SOUTHWEST CORNER OF THE AFORESAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT; THENCE WITH THE SOUTH LINE OF SAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT, NORTH 89°53'28" EAST 600.46 FEET TO THE POINT OF BEGINNING AND CONTAINING 349,670 (8.0273 ACRES), MORE OR LESS, ACCORDING TO A SURVEY BY THE STERLING COMPANY DURING THE MONTH OF JANUARY 2013 UNDER ORDER NUMBER 12-11-311.

Section Two. The zoning authority and approval embodied in this ordinance is granted subject to compliance with the Subdivision and Development Regulations, Zoning Code, and all other City of Wildwood ordinances, rules, and regulations and the conditions of this ordinance, except as, may be modified herein, upon the requirement the development and approved Site Development Plan are carried out in accordance with the recommendation forwarded to the City Council by the Planning and Zoning Commission within the communication dated February 2, 2015, which is incorporated herein by reference as if fully set forth in this ordinance. The zoning authority granted herein is further subject to the following conditions:

1. PERMITTED USES

a. This Planned Residential Development (P.R.D.) Overlay District shall authorize the maximum development of twelve (12) detached single family dwellings on individual lots, with common ground, and all permitted accessory structures normally found in conjunction with the primary uses.

2. LOT SIZES, DEPTHS, AND BUILDING REQUIREMENTS

a. Each detached dwelling unit shall be located on an individual lot of record that is a minimum of 15,000 square feet in size. The minimum width of any lot within this P.R.D. Overlay District shall be one hundred (100) feet in distance, excepting within the cul-de-sac area, which shall be as determined by the Planning and Zoning Commission, as part of its review and action on the Site Development Plan. This width shall be measured at the front building line.

b. No building and/or structure shall be more than two (2) stories above final grade, as measured from the front building line on any individual lot.

c. Direct residential drive access shall be allowed for up to two (2) of the single family detached units within this development from Center Avenue, while the other ten (10) lots shall only be served by the proposed public internal street. All garages on each of the units shall be side-entry designs only, and must use carriage type designs, including windows, as determined by the City's Architectural Review Board to be appropriate. Architectural type shingle selections shall be required on all residential units of a minimum thirty (30) year standard.

d. The first story, interior clear height for all single family dwellings shall be not less than eight (8) feet.

e. The proposed architectural design, character, and style of all buildings and dwelling units shall adhere to the City of Wildwood's Zoning Ordinance regulations for architectural review in all districts, excepting no vinyl siding shall be allowed on any dwelling unit within the boundaries of this Planned Residential Development Overlay District (PRD). All materials used on any facade of a residential unit shall be fiber cement siding and backer, board, wood, brick, and/or stone. Approval of the required design shall be by the Architectural Review Board. Minimally, all buildings shall maintain a consistent theme throughout the boundaries of this Planned Residential Development Overlay District in terms of material, color, and style.

f. The maximum area of this site that can be disturbed for development purposes shall not exceed 5.3 acres in size and does not include the Director of Planning's variance, but does preclude its allowable use.

g. The minimum area of this site that must be protected and cannot be used for development purposes is 2.7 acres in size and does not include the Director of Panning's variance, but does not preclude its allowable use.

3. PLAN SUBMITTAL REQUIREMENTS

Within twelve (12) months of the P.R.D. Overlay District approval by the City Council, and prior to any site disturbance, the developer shall submit to the Planning and Zoning Commission for their review and approval a Site Development Plan. Where due cause is shown by the developer, time intervals may be extended once by the Planning and Zoning Commission in accord with requirements of Section 420.060 of the City of Wildwood Zoning Ordinance. Said Site Development Plan shall include, but not be limited to, the following information:

a. Outboundary plat and legal description of the property.
b. A general numbered lot plan with setback lines from all streets and roadways on and adjacent to the property. A typical lot diagram, indicating all site design information such as, but not limited to, right-of-way width, improvement dimensions and locations, setbacks, and building placement.
c. The location and size of all parking areas, pavement widths, and right-of-way dedications of all internal roadway improvements and drives.
d. A general plan indicating setback lines along the perimeter of the subject tract of land and surrounding property lines and related improvements within four hundred (400) feet of this site's boundaries.
e. Location of all roadways adjacent to the property, including required roadway right-of-way dedication and pavement widening with existing and proposed improvements, and general location, size, right-of-way, and pavement width of all interior drives.
f. The location and size of all freestanding signs, lighting, fences, sidewalks, and other above ground structures, except retaining walls less than two (2) feet in height per section.
g. Existing and proposed contours at vertical intervals of not more than two (2) feet.
h. General location of sanitary sewer facilities.
i. Parking and density calculations.
j. Conceptual location and size of common ground areas.
k. A typical section of the proposed road indicating the placement and design of required streetscape improvements.
l. A Landscape Plan including, but not limited to, the location, size, and general type of plant materials to be used in accord with the City of Wildwood's Ordinance 410 and accompanying Tree Manual.
m. An inventory of the percent of tree canopy or individual trees to be retained on the site.
n. Location of all existing and proposed easements.
o. All other information not mentioned above, but required on a preliminary plat in accord with Section 420.060 of the City of Wildwood Subdivision and Development Regulations.

4. SITE DEVELOPMENT PLAN DESIGN CRITERIA

The above Site Development Plan shall adhere to the following specific design criteria:

Build-To Lines/Setbacks/Other - Residential

a. Any building or structure, other than boundary and/or retaining walls, fences, detention facilities, and/or light standards, shall adhere to the following setback lines:

1. Twenty-five (25) feet from any right-of-way line.
2. Eight (8) feet for any side yard property line and ten (10) feet for side yard areas that abut the perimeter of the Planned Residential Development Overlay District.
3. Thirty (30) feet from any rear yard property line.
4. No foundation associated with any authorized dwelling, or any structural element attached therein to it, shall encroach within fifteen (15) feet of the Final Resource Protection Line, as shown on the Record Plat.

Parking Setbacks – Residential

b. All parking stalls or loading spaces, excluding points of ingress or egress for the detached dwelling units, shall be located behind the edge of the public right-of-way a minimum of twenty-five (25) feet.

Access and Roadway Improvements

c. Dedicate the necessary amount of right-of-way (a minimum of ten (10) feet), along with all easements and licenses for construction purposes, for Center Avenue to allow for the creation of a minimum forty (40) foot wide public right-of-way area and the construction of a twenty-two (22) foot wide pavement section, with a six (6) foot wide sidewalk, on the west side of the street, which adheres to the City of Wildwood's Design Criteria Handbook and associated requirements, as directed by the Department of Public Works. All elements including, but not limited to, tree lawn area, street trees and lights, and other amenities, as set forth herein, shall be indicated on the Site Development Plan and reviewed and acted upon by the Planning and Zoning Commission.

d. Provide a twenty (20) foot wide trail dedication along the entire length of the northern property line to the City of Wildwood for public use forever. This dedication shall be indicated on the Record Plat for this subdivision and contained within in it a ten (10) foot wide multiple-use trail that will connect to Center and West Avenue. This design shall be reviewed and acted upon by the Planning and Zoning Commission, as part of the Site Development Plan process. All standards, specifications, and requirements for the dedication, platting, and design shall be per the direction of the Department's of Public Works and Planning.

e. Dedicate a thirty-five (35) foot right-of-way area for public use and within this area construct a minimum twenty-two (22) foot wide street, with cul-de-sac, ~~and sidewalks on both sides of it,~~ all designed in accordance with the City of Wildwood's Design Criteria Handbook, and as directed by the Department of Public Works.

Miscellaneous Roadway Requirements

f. Installation of landscaping and ornamental entrance monument or identification signage, if proposed, shall be reviewed by the Department of Public Works for sight distance considerations and approved prior to its installation or construction.

g. If required sight distance cannot be provided at the access location, acquisition of right-of-way, reconstruction of pavement, including correction to vertical alignment and other off-site improvements, may be required to provide the required sight distance as directed by the Department of Public Works.

h. Construction access shall be from Manchester Road to Center Avenue during the development of this site, not East Avenue or Bordeaux Walk Way.

i. Sidewalks shall be required on all public streets and provide for a continuous and logical layout of this pedestrian network. Design and construction requirements for all sidewalks within the entire development shall be as established in the City of Wildwood's Design Criteria Handbook. Approval of their location, design, and material shall be by the Planning and Zoning Commission, as part of the Site Development Plan review process.

j. The developer is advised that utility companies will require compensation for relocation of their utility facilities within public road right-of-way. Utility relocation cost shall not be considered as an allowable credit against the petitioner's Traffic Generation Assessment contributions. The developer should also be aware of extensive delays in utility company relocation and adjustments. Such delays will not constitute a cause to allow occupancy prior to completion of roadway improvements.

k. All internal streets, access drives, or lanes, whether public or private, shall comply with the City of Wildwood's Design Criteria Handbook, in terms of improvements, such as drive lane widths, sidewalks, stormwater drainage facilities, and street trees and lights.

Parking Requirements - Residential

l. Parking spaces shall be provided, as required by the Section 415.340 Off-Street Parking and Loading Requirements of the City of Wildwood Zoning Ordinance, for the R-1-A 22,000 square foot Residence District.

Landscape Requirements - Specific

m. Landscaping shall adhere to all requirements of Ordinance 410 and its accompanying Tree Manual, including the submittal of a Tree Preservation Plan in conjunction with the Site Development Plan.

n. All streets, roads, and lanes shall be appropriately landscaped as required by City's Tree Manual and Sustainable Plantings Guide and approved by the Planning and Zoning Commission on the Site Development Plan.

o. The areas of existing vegetation within the P.R.D. Overlay District boundaries identified as to be retained shall be marked on the site prior to the commencement of any disturbance in accord with the City of Wildwood's Ordinance 410. These areas shall be indicated on the Site Development Plan submitted to the City of Wildwood for Planning and Zoning Commission review and approval. Existing mature tree canopy shall be preserved in accordance with the requirements of City of Wildwood's Ordinance 410 Tree Preservation and Restoration Code.

p. A minimum fifty (50) foot, non-disturbed buffer area of the existing woodlands shall be maintained along the property's entire southern boundary line with the Westridge Oaks Subdivision. Non-disturbed shall be interpreted to include no utility extensions through this buffer area. A similar non-disturbed buffer area of no less than thirty (30) feet shall also be required along the entire western boundary line of the subject lot.

q. A Landscape Architect shall sign and submit all plans for review and approval for this mixed-use development.

Signs - Residential

r. Signs for this P.R.D. Overlay District shall be erected in accordance with Section 415.410 Sign Regulations of the City of Wildwood Zoning Ordinance for the R-1-A 22,000 square foot Residence District.

s. The location of all signage shall be as approved on the Site Development Plan by the Planning and Zoning Commission. Signage not located on common ground must be erected within an easement.

Lighting Requirements

t. The location of all lighting standards shall be as approved on the Site Development Plan. No on-site illumination source shall exceed sixteen (16) feet in height or be so situated that light is cast directly on adjoining properties. Illumination levels for all lighting shall comply with the provisions of the City of Wildwood's Zoning Code, Section 415.450 "Outdoor Lighting Requirements." A Lighting Study shall be submitted in conjunction with the Site Development Plan indicating compliance to these requirements. The Planning and Zoning Commission shall approve the location, design, and appearance of all light standards and fixtures as part of the Site Development Plan review process.

Miscellaneous Conditions

u. The design, color, material, and location of all garden and screen walls or fences, if planned or required, shall be indicated on the Site Development Plan, as part of its review and action by the Planning and Zoning Commission and the Architectural Review Board.

v. Improvements associated with public infrastructure, such as roadways, sidewalks, and access points, shall comply with general design principles that will provide for safe and efficient movement of traffic in and around these sites and improve overall circulation in the area. These improvements shall be reviewed and approved by the Department of Public Works.

w. Hours of construction and grading activity shall be limited to 7:00 a.m. to 6:00 p.m. Monday through Friday, and 8:00 a.m. to 6:00 p.m. on Saturday. No development (grading and construction) activity shall be authorized on Sundays.

x. All retaining walls exceeding three (3) feet in height per section or crossing individual property lines shall be constructed of an appropriate inter-locking concrete block system. Walls crossing property lines shall be located in a maintenance easement. The design, color, material, and location of all walls shall shown on the Site Development Plan for review and action by the Planning and Zoning Commission.

y. The location of all utility easements for proposed service to this development shall be as approved by the Planning and Zoning Commission on the Site Development Plan. All utilities installed to serve this site shall be placed underground, including any existing overhead lines located on the subject property.

5. TRAFFIC GENERATION ASSESSMENT FEE

The developer shall contribute to the East Area Traffic Generation Assessment Trust Fund established by Section 140.210 of the City of Wildwood's Revised Codes. This assessment must be paid in full at the time of the first Zoning Authorization for any building or structure or when the individual issuances of building permits for the authorized lots are approved. This contribution shall not exceed the amount established by multiplying the number of parking spaces provided by the following rate:

Type of Development	*Required Contribution*
Single Family Dwelling (detached)	$1,085.70 /Parking Space

Special Inspections, LLC
16624 Old Chesterfield Rd.
St. Louis, MO. 63017
(636)751-3161
Specialinspections.info

STATE OF MISSOURI
MICHAEL
NUMBER
E-14922
REGISTERED PROFESSIONAL ENGINEER
2/29/16

OWNER/DEVELOPER:
Whalen Custom Homes
338 S. Kirkwood Rd.
Kirkwood, MO 63122
314-575-7645

PROJECT TITLE AND LOCATION:
Stone Mill
2710 West Avenue
Wildwood, MO 63040

JOB NUMBER: 15-001
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MSD P# 30612-00 MSD BASEMAP: 24V1 ORDINANCE #2088

(Parking space is defined by Section 415.280 of the City of Wildwood Zoning Code.)

Credits to this required Traffic Generation Assessment Fee (TGA), which shall be at the discretion of the City Council, for off-site work, as defined in the enabling ordinance for this assessment, within the Center Avenue right-of-way, may be allowed. Design and engineering of these improvements to Center Avenue shall be reviewed and acted upon by the Planning and Zoning Commission on the Site Development Plan, all being in accordance with the direction of the Department of Public Works.

If type of development proposed differ than those listed, rates shall be provided by the Department of Public Works.

As this development is located within a Trust Fund area established by the City of Wildwood, any portion of the traffic generation assessment contribution, which remains, following completion of roadway improvements required by the development shall be retained in the appropriate trust fund.

The amount of this required contribution, if not submitted by January 1, 2016, shall be adjusted on that date and on the first day of January in each succeeding year thereafter in accord with the construction cost index as determined by the City of Wildwood Department of Public Works.

6. VERIFICATIONS PRIOR TO APPROVAL OF THE SITE DEVELOPMENT PLAN

Prior to approval of the Site Development Plan, the developer shall provide the following:

Stormwater Improvements

a. Submit to the Planning and Zoning Commission an engineering plan approved by the City of Wildwood Department of Public Works and the Metropolitan St. Louis Sewer District showing that adequate handling of the stormwater drainage of the site is provided.

   1. The developer is required to provide adequate stormwater systems in accordance with the City of Wildwood and the Metropolitan St. Louis Sewer District standards.
   2. All stormwater shall be discharged at an adequate natural discharge point.
   3. Retention/detention of differential runoff of stormwater shall be required. Stormwater management shall be provided in permanent retention/detention facilities, such as ponds or other acceptable alternatives. These retention/detention facilities shall be completed and in operation prior to the issuance of building permits for an approved dwelling unit, except display lots.
   4. All proposed retention/detention facilities and related stormwater improvements shall be located in a common ground area and insure perpetual maintenance to the Homeowners Association to be created at the time of platting of this development.
   5. The developer of this site shall be solely responsible to provide the necessary mechanisms, as part of the Site Development Plan/Improvement Plan process, to implement "best management practices" for stormwater management and the construction of related facilities. Minimally, these practices/facilities should include rain gardens, vegetative swales, and other options to substantially reduce the amount of stormwater leaving the subject site.

Geotechnical Report

b. Provide a Geotechnical Report covering development and grading required by improvements involved with this site, as directed by the Department of Public Works. Said report shall verify the adaptability of grading and improvements with soil and geologic conditions which are susceptible to rapid erosion, landslide, and/or creep. A statement of compliance with this study, signed by the Geotechnical Engineer preparing the report, shall be included on all Site Development Plans. The development and construction plans shall be designed to conform to the requirements and conditions of the Geotechnical Report. The Geotechnical Engineer shall be required to sign and seal all plans with a certification the proposed construction will be completed in accordance with the grading and soils requirements and conditions contained in the report.

Stormwater Pollution Prevention Plan

c. Submit a Stormwater Pollution Prevention Plan, as part of the Site Development Plan review process, indicating compliance to all Federal, State, and local requirements regarding the management of stormwater runoff to prevent siltation and erosion, while preserving water quality, both upon the site and on downstream properties.

Natural Resource Protection Plan

d. Provide a revised and final copy of the Natural Resource Protection Plan indicating all areas of the site, which are to be designated as protected and not developable. This revised and final copy of this map shall be reviewed and signed by a qualified soil scientist, who completed the analysis, and a statement indicating compliance with all the requirements of Section 1005.200 of the City of Wildwood's Subdivision and Development Regulations.

Environmental Assessments – Phase One and Two

e. The developer shall provide to the Planning and Zoning Commission, as part of the Site Development Plan submittal package, a Phase I and Phase II Environmental Assessment Reports of the property, which indicate its current condition relative to its past utilization by other owners. Determination regarding any required mediation shall be identified and completed, prior to the approval of the Record Plat and before the occupancy of any residential unit, all being in accordance with State and federal standards and guidelines, as set forth by the United States Environmental Protection Agency (EPA) and the Missouri Department of Natural Resources (MDNR), for any determined contaminant exceeding a residential cleanup standard/guideline, with the cost borne for such by the developer and not the City of Wildwood.

7. RECORDING

Within ninety (90) days of approval of the Site Development Plan by the Planning and Zoning Commission, the approved plan shall be recorded with the St. Louis County Recorder of Deeds.

8. VERIFICATION PRIOR TO PERMITS

Notification to Department of Planning

a. Subsequent to approval of the Site Development Plan and prior to issuance of any grading, foundation, or building permit, all approvals from the Department of Public Works, the Missouri Department of Natural Resources, and the Metropolitan St. Louis Sewer District must be received by the Department of Planning.

b. Prior to the issuance of a foundation or building permit for any lot, which adjoins the common ground area and/or detention, basin, written certification from a Professional Engineer which verifies these areas are graded in accordance with the approved plans, must be received by the Department of Planning.

Roadway Improvements

c. Improvements to Center Avenue must be completed prior to the issuance of more than one (1) building permit. Any delays in utility company relocation and adjustments will not constitute a cause to allow occupancy prior to completion of roadway improvements.

Land Subdivision

d. Record a proper subdivision of the property and comply with all other applicable Subdivision and Development Regulations sections affecting the development of land, except as otherwise specified by this ordinance.

Indentures

e. With the filing of the record plat establishing separate lots, the developer shall record an approved indenture, which defines the necessary assessments and specific trustee obligations in accord with provisions of Section 415.470 and 415.510 of the City of Wildwood Zoning Code.

Escrow Requirements

f. All improvement and landscaping costs shall be submitted to the City of Wildwood through the standard subdivision escrow procedures.

Improvement Plans

g. The developer of this residential subdivision shall provide to the City Improvement Plans indicating construction details relative to public and private infrastructure associated with its development. Said plans will be used to calculate escrow requirements for these identified improvements.

Sanitary Sewage System

h. The developer shall provide verification from the Metropolitan St. Louis Sewer District that public sewer service has been provided to this site. Verification shall be in a form acceptable to the City of Wildwood. This lot is part of the Town Center Neighborhood Improvement District (NID) for the required wastewater improvements that have been installed thereafter and each of the proposed properties will have an assessment associated with them that is the responsibility of that owner to pay each year.

Potable Water Service

i. The developer shall be required to provide public potable water from the Missouri American Water Company to the property and related homesites. This area has experienced "low pressure" issues and such may affect these twelve (12) lots. Verification of acceptable service to these twelve (12) lots shall be in the form acceptable to the City of Wildwood. Additionally, the design and location of this water service system shall be reviewed and acted upon by the Planning and Zoning Commission, as part of the Site Development Plan submittal process.

9. GENERAL DEVELOPMENT CONDITIONS

a. Provide adequate temporary off-street parking for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driving conditions.

b. A grading permit is required prior to any grading on the site. Interim stormwater drainage control in the form of salutation control measures is required.

c. A copy of the most recently approved Site Development Plan for this P.R.D. Overlay District development shall be prominently displayed at all times in all sales offices for this development.

d. The petitioner shall be responsible for obtaining all necessary permits from the Department of Natural Resources Clean Water Commission as they relate to the development of this tract of land.

e. If cut and fill operations occur during a season not favorable for immediate establishment of a permanent ground cover, a fast germinating annual, such as Rye or Sudan Grasses, shall be utilized to retard erosion.

f. Failure to comply with any or all of the conditions of this ordinance shall be adequate cause for revocation of permits by issuing City of Wildwood Departments or Commissions.

g. The Zoning Enforcement Officer of the City of Wildwood, Missouri, shall enforce the conditions of this ordinance in accord with Site Development Plans approved by the Planning and Zoning Commission and the Department of Planning.

h. Any other applicable zoning, subdivision, or other regulations or requirements of the City, whether in effect at the adoption of this ordinance or as may be hereinafter adopted, shall further apply to the development of this property as authorized by this Planned Residential Development Overlay District Ordinance, except as may be provided by law. Nothing herein shall be deemed a waiver of any subdivision, zoning or other development regulation of the City whether by implication or reference.

i. This zoning approval is conditioned on compliance with the Zoning Code, Subdivision Code, and all applicable laws of the City. Such additional regulations are supplemental to the requirements herein and no modification of any applicable regulations shall result from this Planned Residential Development Overlay District ordinance, except where this ordinance has expressly modified such regulations by reference to the applicable provision authorizing such modification.

10. PUBLIC SPACE REQUIREMENTS

a. Developer shall construct improved public space in conformance with or otherwise satisfying the requirements of the City's Public Space Ordinance, Chapter 415.260 and 415.270 of the City of Wildwood's Zoning Ordinance. The City Council accepts the findings of the Public Space Study adopted therein and determines the compliance with the Public Space Ordinance provisions will address the impact of this specific development on public space needs in a manner and amount that is equal to less than an amount that is roughly proportional to the actual or anticipated impact. The installation of required public space improvements shall be as required by the applicable ordinances, but shall be completed prior to issuance of any occupancy (temporary or final) permit for the authorized by this ordinance. Unless otherwise approved pursuant to the procedures set forth in the Public Space Ordinance, the public space attributable to this development, based upon the number of authorized dwelling units at a rate of 1,742.4 square feet per new single family dwelling, is 20,908.80 square feet in total area.

Editor's Note: Changes to the conditions, as directed by the Planning and Zoning Commission, are shown in bolded, blue type, while a single, strike-through line indicates deletions to items.

Section Three. This ordinance shall be in full force and effect on and after its passage and approval.

This Bill was passed and approved this 9 day of March, 2015, by the Council of the City of Wildwood, Missouri after having been read by title, or in full, two (2) times prior to its passage.

Presiding Officer

The Honorable Timothy Woerther, Mayor

ATTEST:

City Clerk

Lynne Greene Beldner
Deputy City Administrator/City Clerk

MSD P# 30612-00 MSD BASEMAP: 24V1 ORDINANCE #2088

Special Inspections, LLC
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St Louis, MO. 63017
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STATE OF MISSOURI
MICHAEL T. MALLBERG
NUMBER E-14922
PROFESSIONAL ENGINEER

2/29/16

OWNER/DEVELOPER:
Whalen Custom Homes
338 S. Kirkwood Rd.
Kirkwood, MO 63122
314-575-7645

PROJECT TITLE AND LOCATION:
Stone Mill
2710 West Avenue
Wildwood, MO 63040

JOB NUMBER: 15-001
DATE: 9/10/2015
DRAWN BY: TBM
CHECKED BY: MTM
SHEET TITLE: Ordinance #2088
SHEET NUMBER: 5.1

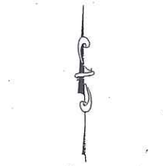
NATURAL RESOURCE PROTECTION STANDARD ANALYSIS – PREPARED BY ON–SITE SOILS, INC.

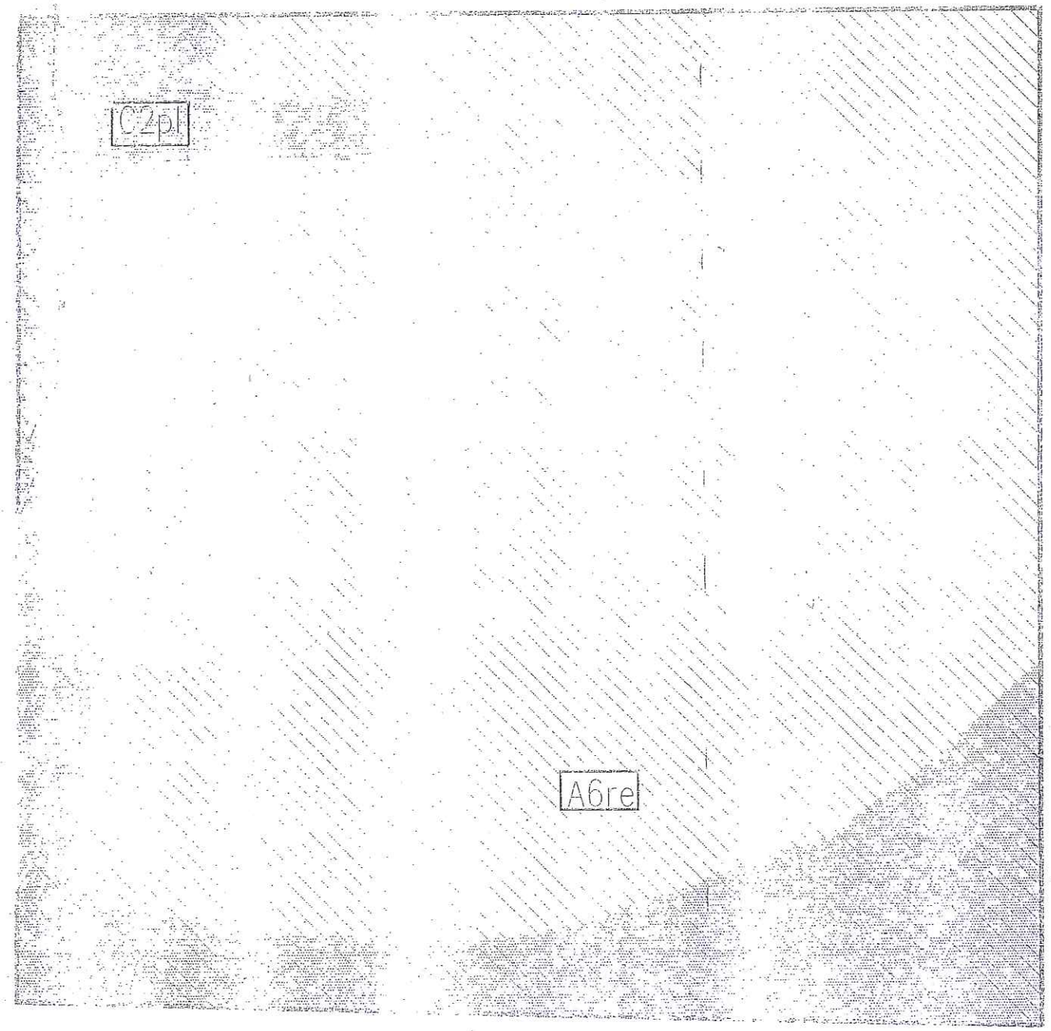
	MAP UNIT	AREA	%REQUIRED TO BE PRESERVED	AREA REQUIRED TO BE PRESERVED	ACRES PRESERVED	%PRESERVED	ACRES DISTURBED	%DISTURBED	ACRES USABLE
//////	C2pl	0.44	40%	0.18	0.42	95%	0.02	5%	0.26
\\\\\\	A6re	7.56	30%	2.27	2.27	30%	5.29	70%	5.29
– → –	Drainageway	0.01	100%	0.01	0.01	100%	0.00	0%	0.00
	TOTAL	8.01		2.46	2.70	34%	5.31	66%	5.55

SOIL SCIENTIST CERTIFICATION:

THIS IS TO CERTIFY THAT WE HAVE, DURING THE MONTH OF JANUARY 2013, PREPARED A REPORT REGARDING THE SOILS AND NATURAL RESOURCE EVALUATION OF THE SUBJECT PROPERTY. THE REPORT AND INFORMATION CONTAINED ON THIS PLAN RELATING TO SAME IS IN COMPLIANCE WITH SECTION 420.200, "NATURAL RESOURCE PROTECTION STANDARDS AND PROCEDURES" OF THE CITY OF WILDWOOD, MISSOURI.

SOIL SCIENTIST — DATE 2/1/16





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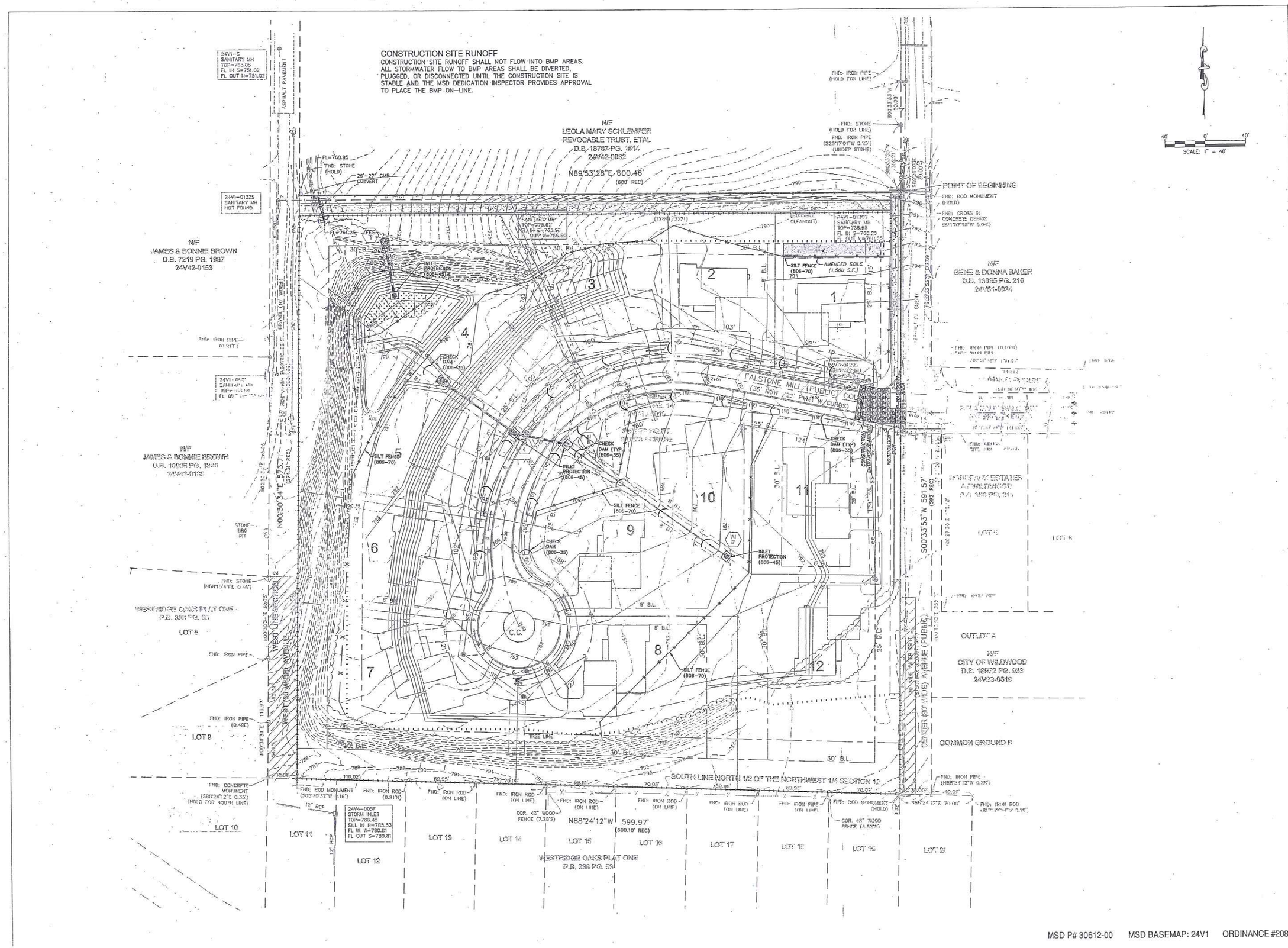

MSD P# 30612-00 MSD BASEMAP: 24V1 ORDINANCE #2088

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STATE OF MISSOURI MICHAEL A. MAHANEY NUMBER E-14922 REGISTERED PROFESSIONAL ENGINEER
2/29/16

OWNER/DEVELOPER:
Whalen Custom Homes
338 S. Kirkwood Rd.
Kirkwood, MO 63122
314-575-7645

PROJECT TITLE AND LOCATION:
Stone Mill
2710 West Avenue
Wildwood, MO 63040

JOB NUMBER:	15-001
DATE:	9/10/2015
DRAWN BY:	TBM
CHECKED BY:	MTM
SHEET TITLE:	SWPPP
SHEET NUMBER:	7.0

SWPPP NOTES

1. SITE OWNER: WHALEN CUSTOM HOMES
338 S. KIRKWOOD RD.
KIRKWOOD, MO 63122
314-575-7645

2. SITE ADDRESS: 2710 WEST AVENUE, WILDWOOD, MO 63040

3. REFER TO IMPROVEMENT PLANS FOR PERTINENT SITE MAP INFO.

4. REFER TO IMPROVEMENT PLANS FOR PERTINENT TOPOGRAPHICAL INFO.

5. RUNOFF COEFFICIENTS: UNDEVELOPED – 0.90
DEVELOPED – 0.92

6. TOTAL LAND ESTIMATED TO BE DISTURBED – APROXIMATELY 5.55 ACRES

7. REFER TO DRAINAGE AREA MAP IN IMPROVEMENT PLANS FOR DRAINAGE PATTERNS.

8. REFER TO SWPP PLAN FOR LOCATION OF ACCESS TO CONSTRUCTION SITE.

9. DESCRIPTION OF B.M.P.'S TO CONTROL EROSION AND SEDIMENTATION (INTERIM AND PERMANENT STABILIZATION PRACTICES)

A. FOR DETAILED DESCRIPTION OF EACH BMP REQUIRED ON THE SITE SEE THIS SHEET.

B. CONTRACTOR SHALL ESTABLISH PERIMETER SILTATION CONTROL PRIOR TO ANY CONSTRUCTION ACTIVITIES. AREAS REQUIRING MINOR CLEARING &/OR GRADING PRIOR TO INSTALLATION OF SILTATION CONTROL SHALL BE COMPLETED IN A TIMELY MANNER AND SILTATION CONTROL ESTABLISHED IMMEDIATELY FOLLOWING.

C. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE THE ACCESS AREAS INTERSECT WITH PUBLIC ACCESS WAYS. DURING MUDDY CONDITIONS, DRIVERS OF VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING THE ROADWAY. WHERE SEDIMENT IS TRANSPORTED ONTO PUBLIC ACCESS WAYS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROAD BY SHOVELING OR SWEEPING. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

D. UPON COMMENCEMENT OF INITIAL CLEARING AND GRUBBING OPERATIONS, AS WELL AS FUTURE GRADING OPERATIONS, TOPSOIL MUST BE STRIPPED FROM GRADED AREAS AND STOCKPILED FOR IN FINAL GRADING AND / OR EXCESS REMOVAL. THE STOCKPILES WILL BE KEPT ON SITE BUT MUST STAY CLEAR OF ALL CONSTRUCTION ACTIVITY. THE STOCKPILE MUST BE STABILIZED WITH TEMPORARY VEGETATION, OR COVERED AT THE END PF EACH WORKDAY, OR PERIMETER CONTROLS MUST BE IN PLACE TO PREVENT SOIL LOSS AND SEDIMENT TRANSPORT FROM THE STOCKPILE ITSELF UNTIL NEEDED.

E. TEMPORARY ROADS SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHALL NOT EXCEED 10 PERCENT SLOPE.

F. CONTRACTOR SHALL CLEAR AND GRUB THOSE AREAS OF THE SITE SCHEDULED FOR CONSTRUCTION. AREAS NOT SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL NOT BE CLEARED OF ESTABLISHED VEGETATION UNTIL REQUIRED. REMAINDER OF SITE SHALL BE GRADED, AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SILTATION CONTROL THROUGHOUT THE DURATION OF THE PROJECT.

G. STORM DRAINS SHALL BE INSTALLED AS EARLY AS POSSIBLE, PROVIDED THE INSTALLATION DOES NOT CONFLICT WITH OTHER CONSTRUCTION ACTIVITIES. INLET PROTECTION SHALL BE PLACED AROUND EACH INLET, IMMEDIATELY, UPON COMPLETION OF CONSTRUCTION OF EACH INLET. INLETS MAY BE UTILIZED FOR STORM WATER CONTROL DURING CONSTRUCTION, WITH THE SILT FENCE AND EROSION CONTROL MEASURES IN PLACE.

H. IF SEEDING OR ANOTHER VEGETATIVE EROSION CONTROL METHOD IS USED, IT SHALL BECOME ESTABLISHED WITHIN TWO WEEKS OR THE SITE SHALL BE RE-SEEDED OR A NON-VEGETATIVE OPTION EMPLOYED.

I. TECHNIQUES SHALL BE EMPLOYED TO ENSURE STABILIZATION ON STEEP SLOPES AND IN DRAINAGE WAYS.

J. THE ENTIRE SITE MUST BE STABILIZED, USING HEAVY MULCH LAYER OR ANOTHER METHOD THAT DOES NOT REQUIRE GERMINATION TO CONTROL EROSION, AT THE CLOSE OF THE CONSTRUCTION SEASON. REFER TO TABLE 2 FOR MULCHING RATES.

K. TECHNIQUES SHALL BE EMPLOYED TO PREVENT THE BLOWING OF DUST OR SEDIMENT FROM THE SITE.

L. TECHNIQUES SHALL BE EMPLOYED TO DIVERT UPLAND RUNOFF PAST DISTURBED SLOPES

M. ALL PROPOSED TURF AREAS, ONCE CONSTRUCTED TO FINAL GRADE SHALL BE SEEDED/SODDED WITHIN FIVE DAYS AFTER FINAL GRADING OF THE SITE WHERE SHOWN ON THE PLAIN. SHOULD WEATHER CAUSE DELAYS IN EARTHWORK OPERATIONS, ADDITIONAL SILTATION CONTROL MEASURES MAY BE REQUIRED.

N. ANY DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR FIVE DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING PER SPECIFICATIONS WITHIN FIVE DAYS. IF SEASONAL CONDITIONS PROHIBIT SEEDING, MULCHING OR MATTING SHALL BE USED.

O. SETTLING BASINS, SEDIMENT TRAPS, OR TANKS AND PERIMETER CONTROLS AS REQUIRED.

P. SETTLING BASINS SHALL BE PROVIDED FOR EACH DRAINAGE AREA WITHIN 10 OR MORE ACRES DISTURBED AT ONE TIME AND SHALL BE SIZED TO CONTAIN 0.5 INCH OF SEDIMENT FROM THE DRAINAGE AREA AND BE ABLE TO CONTAIN A 2-YEAR, 24-HOUR STORM. IF THE PROVISION OF A BASIN OF THIS SIZE IS IMPRACTICAL, OTHER SIMILARLY EFFECTIVE BEST MANAGEMENT PRACTICES (BMP), AS EVALUATED AND SPECIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), SHALL BE UTILIZED.

Q. WHEN REQUIRED, SETTLING BASINS SHALL BE DESIGNED IN A MANNER THAT ALLOWS ADAPTATION TO PROVIDE LONG-TERM STORM WATER MANAGEMENT, AS REQUIRED BY THE COUNTY DEPARTMENT(S) HAVING ENFORCEMENT AUTHORITY AND RESPONSIBILITIES.

R. SETTLING BASINS SHALL HAVE STABILIZED SPILLWAYS TO MINIMIZE THE POTENTIAL FOR EROSION OF THE SPILLWAY OR BASIN EMBANKMENT.

S. PROTECTION FOR ADJACENT PROPERTIES BY THE USE OF VEGETATED BUFFER STRIP IN COMBINATION WITH PERIMETER CONTROLS.

T. SEDIMENTATION CONTROLS SHALL ONLY BE REMOVED AFTER THE SITE IS COMPLETELY STABILIZED, VEGETATION IS WELL ESTABLISHED, AND ALL PAVEMENT AREAS ARE INSTALLED.

10. DESCRIPTION OF B.M.P.'S TO PREVENT POTENTIAL POLLUTANTS
(CONSTRUCTION WASTES, TOXIC OR HAZARDOUS SUBSTANCES, PETROLEUM PRODUCTS, PESTICIDES, HERBICIDES, SITE LITTER, SANITARY WASTES, ETC.)

A. SOLID NON-HAZARDOUS CONSTRUCTION WASTE – DISPOSE OF IN TRASH DUMPSTERS OR APPROVED EQUIVALENT IN A LOCATION APPROVED BY THE OWNER. POTENTIALLY SOLUBLE OR LEACHABLE SOLID WASTE SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK-PROOF CONTAINERS. SOLID WASTE SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK-PROOF CONTAINERS. SOLID WASTE SHALL BE PROPERLY DISPOSED OF OFF-SITE ON A REGULAR BASIS.

B. HAZARDOUS WASTE – HAZARDOUS WASTE SHALL BE SEGREGATED FROM NON-HAZARDOUS CONSTRUCTION SITE DEBRIS. LIQUID OR SEMI-LIQUID HAZARDOUS WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS (CLOSED DRUMS OR SIMILAR) AND SHALL BE KEPT UNDER COVER. GRANULAR, SOLUBLE, OR LEACHABLE HAZARDOUS WASTE MATERIALS SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK-PROOF CONTAINERS, THE OWNER SHALL PROPERLY APPROVE ANY HAZARDOUS WASTE STORAGE AREA LOCATIONS.

C. HAZARDOUS WASTE SHALL BE PROPERLY DISPOSED OF OFF-SITE ON A REGULAR BASIS BY A REPUTABLE, LICENSED HAZARDOUS WASTE HAULER.

D. IT IS NOT THE INTENT OF THIS SWPPP TO SUPERSEDE OR REPLACE NORMAL SITE ASSESSMENT AND REMEDIATION PROCEDURES CONCERNING HAZARDOUS MATERIALS. SIGNIFICANT SPILLS AND/OR CONTAMINATION WARRANT AN IMMEDIATE RESPONSE BY TRAINED PROFESSIONALS. SUSPECTED JOB SITE CONTAMINATION SHOULD IMMEDIATELY BE REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE MEASURES TAKEN.

E. FRESH CONCRETE WASTE AND CONCRETE EQUIPMENT WASH DOWNS SHALL BE CONTAINED AND SHALL BE STORED AWAY FROM DRAINAGE DITCHES, SWALES AND DRAINAGE STRUCTURES. WHERE APPROPRIATE, CONTAINMENT BERMS SHALL BE PLACED AROUND WASTE STORAGE AREAS.

F. ON-SITE FUELING FACILITIES ARE REQUIRED TO ADHERE TO ALL APPLICABLE FEDERAL AND STATE REGULATIONS CONCERNING STORAGE AND DISPENSERS.

G. PROVISIONS SHALL BE MADE SO THAT A SUFFICIENT NUMBER OF TEMPORARY TOILET FACILITIES ARE AVAILABLE TO SERVE THE NUMBER OF WORKERS ON-SITE.

H. PROVISIONS SHALL ME MADE FOR LITTER CONTROL.

11. DESCRIPTION OF B.M.P.'S TO REMAIN AFTER CONSTRUCTION

A. STORM DRAINS – THE DEVELOPMENT WILL BE SERVED BY A STORM WATER SYSTEM CONSISTING OF PIPE AND INLETS. ANY STORM DRAINAGE SYSTEM DESIGNATED AS "PRIVATE" SHALL BE OPERATED AND MAINTAINED BY THE OWNER. ANY STORM DRAINAGE SYSTEM DESIGNATED AS "PUBLIC" SHALL BE MAINTAINED BY THE METROPOLITAN ST. LOUIS SEWER DISTRICT (MSD) UPON DEDICATION OF THE SEWERS TO THE DISTRICT.

B. TURF AREAS – TURF AREAS SHALL BE MAINTAINED TO INSURE SITE AREAS REMAIN STABILIZED UPON COMPLETION OF CONSTRUCTION ACTIVITIES.

C. PAVED AREAS AND WALKWAYS – AREAS SUBJECT TO FOOT AND VEHICLE TRAFFIC SHALL BE PAVED AND KEPT IN GOOD REPAIR FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.

12. CONTRACTOR TO COORDINATE WITH THE CITY AND DEVELOPER FOR OFF STREET PARKING AREA..

13. HAUL ROUTE OF EXCESS SPOILS TO BE DETERMINED BY SITE CONTRACTOR.

14. REFER TO B.M.P.'S DESCRIPTIONS (#10, #11, #12) AND THE SWPP PLAN TO REFERENCE ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS SITE.

15. REFER TO SEEDING RATES/MIXTURES TABLE 1.

16. PLANNED RESPONSE TO LOSS OF CONTAINED SEDIMENT:

B.M.P.'S SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY, AS REQUIRED, TO STABILIZE SITE AND CONTAIN SEDIMENT LADEN RUNOFF. OFFSITE AREAS SHALL BE REVIEWED FOR EXTENT OF IMPACT FROM B.M.P. FAILURE. PERMIT HOLDER SHALL BE REQUIRED TO PROVIDE DOCUMENTATION OF THE B.M.P. MEASURES, INSTALLED AND SCHEDULED MAINTENANCE, AND REPAIRS.

CONTRACTORS ON-SITE WILL BE EDUCATED ON THE RESPONSE TO ANY SPILLS ON THE SITE. UPON DISCOVERY OF THE SOURCE OF THE SPILL IT IS TO BE IMMEDIATELY STOPPED BY ANY MEANS NECESSARY AND ANY CONTAMINATED SOIL SHALL BE DISPOSED OF OFFSITE AT A REQUIRED AND LICENSED CONTAMINATION SITE. THE RESPONSIBILITY FOR ENFORCING THESE CLEANUPS IS HELD BY THE ONSITE SUPERINTENDENT, ALL GENERAL CONTRACTORS WILL BE UNDER WRITTEN AGREEMENT TO ABIDE BY THESE REGULATIONS. RESPONSE MUST INCLUDE DOCUMENTATION OF ACTIONS AND MANDATORY REPORTING TO PUBLIC WORKS.

17. PERMIT HOLDER

A. PERMIT HOLDER SHALL NOTIFY ALL CONTRACTORS AND OTHER ENTITIES (INCLUDING UTILITY CREWS, CITY EMPLOYEES, OR THEIR AGENTS) THAT WILL PERFORM WORK AT THE SITE, OF THE EXISTENCE OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN WHILE ON SITE TO MINIMIZE THE POTENTIAL FOR EROSION AND THE POTENTIAL FOR DAMAGING ANY BEST MANAGEMENT PRACTICES (BMP'S).

B. PERMIT HOLDER SHALL DETERMINE THE NEED FOR AND ESTABLISH TRAINING PROGRAMS TO ENSURE THAT ALL SITE WORKERS HAVE BEEN TRAINED, AT A MINIMUM, IN EROSION CONTROL, MATERIAL HANDLING AND STORAGE, AND HOUSEKEEPING.

C. PROVIDE COPIES OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO ALL PARTIES WHO ARE RESPONSIBLE FOR INSTALLATION, OPERATION, OR MAINTENANCE FOR ANY BEST MANAGEMENT PRACTICES (BMP'S).

D. MAINTAIN A CURRENT COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON THE SITE AT ALL TIMES.

18. PRIOR TO ANY MAJOR LAND DISTURBANCE ACTIVITY, A LAND DISTURBANCE PERMIT FROM THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES, WILL BE REQUIRED.

19. ANY LAND CLEARING, CONSTRUCTION, OR DEVELOPMENT INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.

20. SEE PAGE 56 OF THE ST LOUIS COUNTY EROSION CONTROL MANUAL FOR DESCRIPTION OF SILT FENCE BMP.

21. CONTRACTOR SHALL KEEP SILT FROM ENTERING INTO THE STORM SEWER SYSTEM AND ALL KEEP WATER FROM PONDING ON THE PAVEMENT THAT IS PART OF THE VEHICLE OR PEDESTRIAN TRAVEL WAY. INLET PROTECTION SHALL ONLY BE USED AS NECESSARY TO KEEP SILT FROM ENTERING INTO THE STORM SEWER SYSTEM.

SEEDING REQUIREMENTS

Permanent Seeding	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Tall Fescue			O	O	O			O	O			
Smooth Brome			O	O	O			O	O			
Fescue & Brome			O	O	O	O		O	O			
Fescue, Rye & Bluegrass	A	A	O	O	O	P	P	O	O	P	P	A

Temporary Seeding	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Rye or Sudan	A	A	O	O	O	O	O	O	O	O	A	A
Oats		A	O	O	O	O	O	O	O			

O = Optimum seeding dates
A = Acceptable seeding dates
P = Permitted seeding dates with reviewing 2 months later - Initially use 50% of seed and 75% of fertilizer; Reseed with additional 75% seed and remaining fertilizer.

Permanent Seeding*	Pounds per acre	Pounds Per 1000 sq ft
Tall Fescue	300	7.0
Smooth Brome	200	4.6
Mixture # 1	250	5.7
Mixture # 2	210	4.8

Mixture # 1 = Tall Fescue @ 150 pounds per acre and Brome @ 100 pounds per acre.
Mixture # 2 = Tall Fescue @ 100 pounds per acre; Perennial Rye grass @ 100 pounds per acre, and Kentucky Blue grass @ 10 pounds per acre.
* = Seeding rate for slopes in excess of 20% (5:1) shall be 11 pounds per 1000 sq. ft.

Temporary Seeding	Pounds per acre	Pounds Per 1000 sq. ft.
Rye or Sudan	150	3.5
Oats	200	2.5

Fertilizer	Permanent Seeding (pounds per acre)	Temporary Seeding (pounds per acre)
Nitrogen	45	30
Phosphate	65	30
Potassium	65	30
Lime - ENM	600	600

ENM = Effective neutralizing material per State evaluation of quarried rock.

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MULCH SELECTION AS A FUNCTION OF SLOPE

(1) For slopes steeper than 1:1, consider building a diversion above slope to divert water
(2) Example: An 8% slope, 100 feet long, requires straw mulch with netting

GENERAL MULCH RECOMMENDATIONS TO PROTECT FROM SPLASH AND SHEET FLOW

Material	Rate Per Acre	Requirements	Notes
Straw	2 to 2.5 tons	Dry, unchopped unweathered; avoid weeds	Spread by hand or machine; must be tacked or tied down
Wood Fiber or Wood Cellulose	0.5 to 1 ton		Use with hydro seeder; may be used to tack straw. Do not use in hot, dry weather.
Wood Chips	5 to 6 tons	Air dry. Add nitrogen fertilizer at 12 lb per ton	Apply with blower, chip handler, or by hand. Not for fine turf areas
Bark	35 cu. yds.	Air dry, shredded, or hammermilled; or chips	Apply with mulch blower, chip handler or by hand. Do not use asphalt tack.

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11/1/2014 Page 143 Sediment and Erosion Control Manual Standard Drawings

11/1/2014 Page 126 Sediment and Erosion Control Manual Standard Drawings

11/1/2014 Page 127 Sediment and Erosion Control Manual Standard Drawings

11/1/2014 Page 116 Sediment and Erosion Control Manual Standard Drawings

11/1/2014 Page 125 Sediment and Erosion Control Manual Standard Drawings

MSD P# 30612-00 MSD BASEMAP: 24V1 ORDINANCE #2088

Special Inspections, LLC
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Specialinspections.info

STATE OF MISSOURI
MICHAEL T. MATANE
NUMBER
PE-14922
REGISTERED PROFESSIONAL ENGINEER
2/29/16

OWNER/DEVELOPER:
Whalen Custom Homes
338 S. Kirkwood Rd.
Kirkwood, MO 63122
314-575-7645

PROJECT TITLE AND LOCATION:
Stone Mill
2710 West Avenue
Wildwood, MO 63040

JOB NUMBER: 15-001
DATE: 9/10/2015
DRAWN BY: TBM
CHECKED BY: MTM
SHEET TITLE: Swpp Notes and Details
SHEET NUMBER: 7.1

PROPOSED ZONING	R1A
TOTAL SITE AREA	8.03 ACRES
EXISTING CANOPY	82,804 SQ. FT. or 1.90 ACRES
REQUIRED CANOPY	(30%) 24,841 SQ. FT. or 0.57 ACRES
SAVED CANOPY	(91%) 75,031 SQ. FT or 1.72 ACRES
PLANTED CANOPY	(70%) +58,000 SQ. FT. or 1.33 ACRES
PROVIDED CANOPY	(161%) 133,031 SQ. FT. or 3.05 ACRES

NORTH

0 40 80 120 feet

SCALE: 1" = 40'

TREE PRESERVATION AND LANDSCAPE PLAN

GENERAL NOTES:

1. INDIVIDUAL HOMEOWNERS MUST BE NOTIFIED AT LEAST ONE WEEK PRIOR TO INSTALLATION OF PLANTS ON LOTS THAT HAVE AN OCCUPIED DWELLING;
2. UNLESS OTHERWISE STIPULATED BY SPECIFIC REQUIREMENTS OF THE CITY OF WILDWOOD TREE MANUAL, THE LANDSCAPING SHOWN ON THIS PLAN MUST BE PLANTED IN ACCORDANCE WITH THE LATEST EDITION OF THE TREE AND SHRUB TRANSPLANTING MANUAL PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (PO BOX GG, SAVOY, IL 61874-9902;
3. ALL TREES ARE TO BE LOCATED A MINIMUM DISTANCE OF 5' FROM ALL UTILITY BOXES, 5' FROM A STORM INLET OR MANHOLE, 10' FROM A FIRE HYDRANT, 15' FROM PUBLIC STREET LIGHTS, 5' FROM DRIVEWAY APRONS, 20' FROM ANY TRAFFIC CONTROL SIGN, AND AT LEAST 30' FROM ANY INTERSECTION;
4. LOCATIONS O F STREET TREES MAY BE SUBJECT TO CHANGE IN ORDER TO AVOID CONFLICT WITH STREET LIGHTING;
5. ANY PLANTING WITHIN A TREE PRESERVATION AREA, AS DESIGNATED ON THE TREE PRESERVATION PLAN AND SHOWN ON THIS PLAN, MUST BE DONE TO AVOID ANY ADVERSE IMPACT TO THE ROOTS OF EXISTING TREES;
6. PLANT TYPE SUBSTITUTIONS ARE PERMITTED WITH VERBAL OR WRITTEN APPROVAL FROM THE CITY OF WILDWOOD PLANNING DEPARTMENT;
7. ALL PLANT MATERIAL WILL BE REINSPECTED FOR SURVIVAL BY THE CITY OF WILDWOOD PLANNING DEPARTMENT ONE YEAR FOLLOWING INSTALLATION AND AGAIN TWO FULL GROWING SEASONS AFTER PLANTING;
8. ALL PLANTS MUST MEET STANDSARDS OF THE LATEST EDITION OF THE AMERICAN STANDARDS FOR NURSERY STOCK SPONSORED BY THE ASSOCIATION OF AMERICAN NURSERYMEN;
9. NO PLANT SHALL BE LOCATED IN AREAS OF OBVIOUS POOR DRAINAGE. IF SUCH CONDITIONS EXIST, CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY TO RELOCATE AFFECTED PLANT MATERIAL;
10. SOIL CONDITIONS MUST BE TESTED, VERIFIED AND ADJUSTED BY THE LANDSCAPE CONTRACTOR TO INSURE THAT APPROPRIATE SOIL COMPOSITION AND pH LEVELS ARE SUITABLE FOR PLANT MATERIAL SPECIFIED FOR THAT SPECIFIC LOCATION.
11. LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR SURVEYED LOCATION AND VERIFICATION OF EXISTING VEGETATION.

SPECIFICATIONS:

1. PLANTING SOIL SHALL BE A PREPARED SOIL BY A REPUTABLE LOCAL NURSERY OR SIMILAR SOURCE.
2. PLANTING SOIL SHALL BE FREE OF STONES, STUMPS, ROOTS OR OTHERWOODY MATERIAL OVER 1 INCH IN DIAMETER. FOR BEST RESULTS BRUSHOR SEEDS FROM NOXIOUS WEEDS, SUCH AS JOHNSON GRASS,MUGWORT, NUTSEDGE AND CANADIAN THISTLE SHOULD NOT BEPRESENT IN THE SOILS.
3. pH RANGE: 5.0 - 7.0
4. ORGANIC MATTER: UP TO 10%

CALCULATIONS:

1. ALL STREET TREES ARE TO BE PLANTED APPROXIMATELY 30' APART, NO MORE THAN 45' APART.
2. PROPOSED TREE CANOPY AREAS ARE FROM WILDWOOD TREE LANDSCAPE MANUAL:
   - 2.1. LARGE SHADE TREE: 1,000 SQ. FT. (X49)
   - 2.2. MEDIUM SHADE TREE OR EVERGREEN: 700 SQ. FT. (0)
   - 2.3. SMALL FLOWERING OR EVERGREEN: 300 SQ. FT. (X30)
3. PROPOSED BUFFER YARD B (NORTH) = 570.33 LF
4. PROPOSED BUFFER YARD C (EAST) = 148.3 LF

ENTRY MONUMENT SIGN DETAIL PLAN

1"=5'

1 DECIDUOUS TREE PLANTING

NTS P-CO-DCS-DCST-05

2 CONIFEROUS TREE PLANTING

NTS P-RE-PBP-11

PLANT SPACING DIAGRAM (NTS)

Spacing ("D")	Row ("A")	Plants / Sq. Ft.
15" o.c.	13"	.738
18" o.c.	15.6"	.512
24" o.c.	20.8"	.290
30" o.c.	26"	.185
36" o.c.	30"	.120
48" o.c.	41.5"	.073
60" o.c.	52"	.046

NOTES:

1. Space plants equally or as shown on planting plan.
2. See plant schedule for plant quantities and spacing.

3 SHRUB + PERENNIAL PLANTING

NTS P-CO-DCS-DCST-03

NOTE:
ANY VISIBLE ROOT OVER (1) ONE INCH IN DIAMETER IS TO BE CLEANLY CUT WHERE VISIBLE AT SURFACE LAYER OR DURING TRENCHING OPERATIONS FOR PRESERVED TREES WITHIN 11 FEET OF THE LIMITS OF DISTURBANCE BOUNDARY.

4 TREE PROTECTION DETAIL

3/16" = 1'-0" P-RE-STO-11

PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME / COMMON NAME	CAL	CONT	HGT	QTY
	AME GRA	AMELANCHIER X GRANDIFLORA `AUTUMN BRILLIANCE` / `AUTUMN BRILLIANCE` SERVICEBERRY	2" CAL	B+B		3
	CER CAN	CERCIS CANADENSIS / EASTERN REDBUD	2" CAL			8
	COR KOU	CORNUS KOUSA / KOUSA DOGWOOD	2" CAL	B+B		4
	GIN BI2	GINKGO BILOBA / MAIDENHAIR TREE	2.5" CAL	B+B		3
	GIN BIL	GINKGO BILOBA / MAIDENHAIR TREE	3" CAL	B+B		2
	PIC FAT	PICEA PUNGENS GLAUCA `FAT ALBERT` / FAT ALBERT COLORADO BLUE SPRUCE	2.5" CAL	B+B	6 FT.	12
	PLA ACE	PLATANUS X ACERIFOLIA / LONDON PLANE TREE	2.5" CAL	B+B		1
	QUE BIC	QUERCUS BICOLOR / SWAMP WHITE OAK	2.5" CAL	B+B		20
	QUE COC	QUERCUS COCCINEA / SCARLET OAK	2.5" CAL	B+B		15
	TAX SH2	TAXODIUM DISTICHUM `SHAWNEE BRAVE` TM / BALD CYPRESS	2" CAL	B+B		6
	TAX SHA	TAXODIUM DISTICHUM `SHAWNEE BRAVE` TM / BALD CYPRESS	3" CAL	B+B		2
	THU OCC	THUJA OCCIDENTALIS `GREEN GIANT` / GREEN GIANT ARBORVITAE	2.5" CAL	B+B	8 FT.	3

SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY
	CLE RU4	CLETHRA ALNIFOLIA `RUBY SPICE` / RUBY SPICE CLETHRA	5 GAL	48" o.c.	9
	HYD ANN	HYDRANGEA ARBORESCENS `ANNABELLE` / ANNABELLE SMOOTH HYDRANGEA	5 GAL	48" o.c.	15
	ILE SHA	ILEX GLABRA `SHAMROCK` / INKBERRY	5 GAL	36" o.c.	56
	ITE VIR	ITEA VIRGINICA `HENRY'S GARNET` / HENRY'S GARNET SWEETSPIRE	5 GAL	48" o.c.	60
	RHU GRO	RHUS AROMATICA `GRO-LOW` / GRO-LOW FRAGRANT SUMAC	3 GAL	18" o.c.	14

GRASSES	CODE	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY
	CAL KAR	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS	5 GAL	36" o.c.	17
	PEN HAM	PENNISETUM ALOPECUROIDES `HAMELN` / HAMELN DWARF FOUNTAIN GRASS	1 GAL	24" o.c.	32

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DG2 Design Landscape Architecture

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DG2 DESIGN MISSOURI STATE CERTIFICATE OF AUTHORITY #LC1126925

CONSULTANT

STONE MILL
WHALEN CUSTOM HOMES
WILDWOOD, MISSOURI 63040

NO.	ISSUED FOR	DATE
REV#	REV NAME	REV DATE
	CLIENT REVIEW	12.08.15
	TOWN & COUNTRY REVIEW	12.10.15

STAMP

STATE OF MISSOURI
KRISTY ANN DEGUIRE
NUMBER LA-2010000189
LANDSCAPE ARCHITECT

Kristy DeGuire
Landscape Architect
LA-2010000189

DRAWING TITLE
TREE PRESERVATION AND LANDSCAPE PLAN

PROJECT #: 15-215

SHEET NUMBER

L100

FOR OFFICIAL USE ONLY

date
G:\DG2 DESIGN\PROJECTS\2015\15-215 Stone Mill Development\DWG\151201_Stone Mill Tree Preservation and Landscape Plan.dwg

Warning: It is a violation of the law for any person, unless acting under the direction of a licensed landscape architect, to alter an item in any way. If an item in this document is altered, the altering landscape architect, if other than the landscape architect of record, shall affix to the item his seal and the notation "altered by" follows by his signature and the date of such alteration, and the specific description of the alteration.

ATTACHMENT B

Site-Specific Ordinance

AMENDED BILL NO.: 2088 AMENDED ORDINANCE NO.: 2088

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI AUTHORIZING A CHANGE IN ZONING FROM THE NU NON-URBAN RESIDENCE DISTRICT TO THE R-1A 22,000 SQUARE FOOT RESIDENCE DISTRICT, WITH A PLANNED RESIDENTIAL DEVELOPMENT OVERLAY DISTRICT (PRD), TO ACCOMMODATE THE DEVELOPMENT OF AN 8.01 ACRE TRACT OF LAND THAT IS LOCATED ON THE WEST SIDE OF CENTER AVENUE, SOUTH OF MANCHESTER ROAD, WITH TWELVE (12) SINGLE FAMILY DETACHED DWELLINGS ON INDIVIDUAL LOTS, WITH COMMON GROUND AND PUBLIC SPACE AREAS, PER THE ACTION OF THE PLANNING AND ZONING COMMISSION, WHICH IS DETAILED IN ITS LETTER OF RECOMMENDATION DATED FEBRUARY 2, 2015 – P.Z. 21, 22, and 23-14 Stone Mill. (Ward Eight)

WHEREAS, the Master Plan of the City of Wildwood, Missouri contains four (4), major conceptual land use categories that are applied for properties located within its boundaries and these classifications determine how they may be developed in terms of use and density/intensity; and

WHEREAS, one (1) of these categories is the "Suburban Residential Area" that is applied to properties that had been zoned by St. Louis County, prior to the City's incorporation, for single family residential uses, at densities that varied from two (2) units per acre to five (5) units per acre, which included much of the Wildwood community east of State Route 109; and

WHEREAS, this pattern was recognized and the first City Council and Planning and Zoning Commission agreed to allow numerous surrounding properties that were vacant or undeveloped to be used for similar purposes, but at a density no greater than two (2) units per acre, which was substantially less than the past actions of St. Louis County; and

WHEREAS, in 2006, the density in the "Suburban Residential Area" was changed, as part of the Master Plan update process, to one (1) unit per acre from the earlier two (2) units per acre, which was due to the impact this density of units was causing on some of the remaining sites available for future development, particularly in the Strecker Road/Clayton Road Area; and

WHEREAS, long after this change in the text of the Master Plan, the petitioner purchased a site formerly owned by the State of Missouri and was advised of the limitations on its future density of residential units, but sought a change to the Master Plan definition of "Suburban Residential Area," so as to be able to develop it with a comparable density to that of the surrounding subdivisions; and

WHEREAS, this Master Plan modification to the definition of "Suburban Residential Area" would allow for the development of twelve (12) lots on the 8.01 acre site, which also requires its rezoning and the application of a Planned Residential Development Overlay District (PRD), all of which were applied for by Lombardo Homes; and

WHEREAS, with the applications for these three (3) items, the Planning and Zoning Commission held a public hearing on December 1, 2014 upon them, where comments were provided in this regard; and

WHEREAS, the Planning and Zoning Commission reviewed these comments and discussed considerations, with finally granting a change to the Master Plan's "Suburban Residential Area" definition to allow for this single property to have a density of up to 1.75 units per acre, given the

circumstances of its location, i.e. abutting Town Center, other surrounding development densities, and available utilities; and

WHEREAS, with this action, the associated rezoning and application of special procedures permit were also recommended for approval by the Planning and Zoning Commission, which was reflected in its Letter of Recommendation on this matter, being dated February 2, 2015; and

WHEREAS, in this Letter of Recommendation, the Planning and Zoning Commission noted the rezoning and associated special procedures permit were reasonable at this location, given the Master Plan amendment had been supported, and would address a difficult property with a comparable development proposal in terms of type and density of use; and

WHEREAS, this action was undertaken in accordance with the requirements of the City's Charter and the State Statute for the consideration of modifications to Master Plans, General Plans, and Comprehensive Plans of a similar nature.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WILDWOOD, MISSOURI, AS FOLLOWS:

Section One. The City of Wildwood Zoning Ordinances and Official Zoning District Maps, which are made a part hereof, are hereby, amended to reflect the change in zoning from the NU Non-Urban Residence District to the R-1A 22,000 square foot Residence District, with a Planned Residential Development Overlay District (PRD), as set forth in this ordinance, for the following described land:

A TRACT OF LAND IN THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF A TRACT OF LAND DESCRIBED IN A DEED TO LEOLA MARY SCHLEMPER REVOCABLE TRUST RECORDED IN DEED BOOK 18787 PAGE 1614 OF THE ST. LOUIS COUNTY RECORDS, SAID POINT BEING ON THE WEST LINE OF CENTER (30' WIDE) AVENUE; THENCE WITH THE WEST LINE OF CENTER AVENUE, BEING 15' WEST OF AND PARALLEL TO THE CENTERLINE THEREOF, SOUTH 00°33'53" WEST 591.57 FEET TO THE SOUTH LINE OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12, SAID POINT ALSO BEING THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE AS PER THE PLAT THEREOF RECORDED IN PLAT BOOK 338 PAGE 53 OF THE ST. LOUIS COUNTY RECORDS; THENCE DEPARTING THE WEST LINE OF CENTER AVENUE WITH THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE, NORTH 88°24'12" WEST 599.97 FEET TO A POINT ON THE EAST LINE OF WEST (30' WIDE) AVENUE; THENCE WITH THE EAST LINE OF WEST AVENUE, BEING 15' EAST OF AND PARALLEL TO THE CENTERLINE THEREOF AND 30 FEET EAST OF AND PARALLEL TO THE WEST LINE OF SECTION 12, NORTH 00°30'34" EAST 573.71 FEET TO THE SOUTHWEST CORNER OF THE AFORESAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT; THENCE WITH THE SOUTH LINE OF SAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT, NORTH 89°53'28" EAST 600.46 FEET TO THE POINT OF BEGINNING AND CONTAINING 349,670 (8.0273 ACRES), MORE OR LESS, ACCORDING TO A SURVEY BY THE STERLING COMPANY DURING THE MONTH OF JANUARY 2013 UNDER ORDER NUMBER 12-11-311.

Section Two. The zoning authority and approval embodied in this ordinance is granted subject to compliance with the Subdivision and Development Regulations, Zoning Code, and all other City of Wildwood ordinances, rules, and regulations and the conditions of this ordinance, except as, may be modified herein, upon the requirement the development and approved Site Development Plan are carried out in accordance with the recommendation forwarded to the City Council by the Planning and Zoning Commission within the communication dated February 2, 2015, which is incorporated herein by reference as if fully set forth in this ordinance. The zoning authority granted herein is further subject to the following conditions:

1. **PERMITTED USES**

a. This Planned Residential Development (P.R.D.) Overlay District shall authorize the maximum development of twelve (12) detached single family dwellings on individual lots, with common ground, and all permitted accessory structures normally found in conjunction with the primary uses.

2. **LOT SIZES, DEPTHS, AND BUILDING REQUIREMENTS**

a. Each detached dwelling unit shall be located on an individual lot of record that is a minimum of 15,000 square feet in size. The minimum width of any lot within this P.R.D. Overlay District shall be one hundred (100) feet in distance, **excepting within the cul-de-sac area, which shall be as determined by the Planning and Zoning Commission, as part of its review and action on the Site Development Plan.** This width shall be measured at the front building line.

b. No building and/or structure shall be more than two (2) stories above final grade, as measured from the front building line on any individual lot.

c. Direct residential drive access shall be allowed for up to two (2) of the single family detached units within this development from Center Avenue, while the other ten (10) lots shall only be served by the proposed public internal street. All garages on each of the units shall be side-entry designs only, and must use carriage type designs, including windows, as determined by the City's Architectural Review Board to be appropriate. **Architectural type shingle selections shall be required on all residential units of a minimum thirty (30) year standard.**

d. The first story, interior clear height for all single family dwellings shall be not less than eight (8) feet.

e. The proposed architectural design, character, and style of all buildings and dwelling units shall adhere to the City of Wildwood's Zoning Ordinance regulations for architectural review in all districts, **excepting no vinyl siding shall be allowed on any dwelling unit within the boundaries of this Planned Residential Development Overlay District (PRD). All materials used on any facade of a residential unit shall be fiber cement siding and backer, board, wood, brick, and/or stone.** Approval of the required design shall be by the Architectural Review Board. Minimally, all buildings shall maintain a consistent theme throughout the boundaries of this Planned Residential Development Overlay District in terms of material, color, and style.

f. The maximum area of this site that can be disturbed for development purposes shall not exceed 5.3 acres in size and does not include the Director of Planning's variance, **but does preclude its allowable use.**

g. The minimum area of this site that must be protected and cannot be used for development purposes is 2.7 acres in size and does not include the Director of Panning's variance, **but does not preclude its allowable use.**

3. PLAN SUBMITTAL REQUIREMENTS

Within twelve (12) months of the P.R.D. Overlay District approval by the City Council, and prior to any site disturbance, the developer shall submit to the Planning and Zoning Commission for their review and approval a Site Development Plan. Where due cause is shown by the developer, time intervals may be extended once by the Planning and Zoning Commission in accord with requirements of Section 420.060 of the City of Wildwood Zoning Ordinance. Said Site Development Plan shall include, but not be limited to, the following information:

a. Outboundary plat and legal description of the property.
b. A general numbered lot plan with setback lines from all streets and roadways on and adjacent to the property. A typical lot diagram, indicating all site design information such as, but not limited to, right-of-way width, improvement dimensions and locations, setbacks, and building placement.
c. The location and size of all parking areas, pavement widths, and right-of-way dedications of all internal roadway improvements and drives.
d. A general plan indicating setback lines along the perimeter of the subject tract of land and surrounding property lines and related improvements within four hundred (400) feet of this site's boundaries.
e. Location of all roadways adjacent to the property, including required roadway right-of-way dedication and pavement widening with existing and proposed improvements, and general location, size, right-of-way, and pavement width of all interior drives.
f. The location and size of all freestanding signs, lighting, fences, sidewalks, and other above ground structures, except retaining walls less than two (2) feet in height per section.
g. Existing and proposed contours at vertical intervals of not more than two (2) feet.
h. General location of sanitary sewer facilities.
i. Parking and density calculations.
j. Conceptual location and size of common ground areas.
k. A typical section of the proposed road indicating the placement and design of required streetscape improvements.
l. A Landscape Plan including, but not limited to, the location, size, and general type of plant materials to be used in accord with the City of Wildwood's Ordinance 410 and accompanying Tree Manual.
m. An inventory of the percent of tree canopy or individual trees to be retained on the site.
n. Location of all existing and proposed easements.
o. All other information not mentioned above, but required on a preliminary plat in accord with Section 420.060 of the City of Wildwood Subdivision and Development Regulations.

4. SITE DEVELOPMENT PLAN DESIGN CRITERIA

The above Site Development Plan shall adhere to the following specific design criteria:

Build-To Lines/Setbacks/Other - Residential

a. Any building or structure, other than boundary and/or retaining walls, fences, detention facilities, and/or light standards, shall adhere to the following setback lines:

1. Twenty-five (25) feet from any right-of-way line.
2. Eight (8) feet for any side yard property line and ten (10) feet for side yard areas that abut the perimeter of the Planned Residential Development Overlay District.
3. Thirty (30) feet from any rear yard property line.
4. No foundation associated with any authorized dwelling, or any structural element attached therein to it, shall encroach within fifteen (15) feet of the Final Resource Protection Line, as shown on the Record Plat.

Parking Setbacks – Residential

b. All parking stalls or loading spaces, excluding points of ingress or egress for the detached dwelling units, shall be located behind **the edge of the public right-of-way** a minimum of twenty-five (25) feet.

Access and Roadway Improvements

c. Dedicate the necessary amount of right-of-way (a minimum of ten (10) feet), along with all easements and licenses for construction purposes, for Center Avenue to allow for the creation of a minimum forty (40) foot wide public right-of-way area and the construction of a twenty-two (22) foot wide pavement section, with a six (6) foot wide sidewalk, on the west side of the street, which adheres to the City of Wildwood's Design Criteria Handbook and associated requirements, as directed by the Department of Public Works. All elements including, but not limited to, tree lawn area, street trees and lights, and other amenities, as set forth herein, shall be indicated on the Site Development Plan and reviewed and acted upon by the Planning and Zoning Commission.

d. Provide a twenty (20) foot wide trail dedication along the entire length of the northern property line to the City of Wildwood for public use forever. This dedication shall be indicated on the Record Plat for this subdivision and contained within in it a ten (10) foot wide multiple-use trail that will connect to Center and West Avenue. This design shall be reviewed and acted upon by the Planning and Zoning Commission, as part of the Site Development Plan process. All standards, specifications, and requirements for the dedication, platting, and design shall be per the direction of the Department's of Public Works and Planning.

e. Dedicate a thirty-five (35) foot right-of-way area for public use and within this area construct a minimum twenty-two (22) foot wide street, with cul-de-sac, ~~and sidewalks on both sides of it,~~ all designed in accordance with the City of Wildwood's Design Criteria Handbook, and as directed by the Department of Public Works.

Miscellaneous Roadway Requirements

f. Installation of landscaping and ornamental entrance monument or identification signage, if proposed, shall be reviewed by the Department of Public Works for sight distance considerations and approved prior to its installation or construction.

g. If required sight distance cannot be provided at the access location, acquisition of right-of-way, reconstruction of pavement, including correction to vertical alignment and other off-site improvements, may be required to provide the required sight distance as directed by the Department of Public Works.

h. Construction access shall be from Manchester Road to Center Avenue during the development of this site, not East Avenue or Bordeaux Walk Way.

i. Sidewalks shall be required on all public streets and provide for a continuous and logical layout of this pedestrian network. Design and construction requirements for all sidewalks within the entire development shall be as established in the City of Wildwood's Design Criteria Handbook. Approval of their location, design, and material shall be by the Planning and Zoning Commission, as part of the Site Development Plan review process.

j. The developer is advised that utility companies will require compensation for relocation of their utility facilities within public road right-of-way. Utility relocation cost shall not be considered as an allowable credit against the petitioner's Traffic Generation Assessment contributions. The developer should also be aware of extensive delays in utility company relocation and adjustments. Such delays will not constitute a cause to allow occupancy prior to completion of roadway improvements.

k. All internal streets, access drives, or lanes, whether public or private, shall comply with the City of Wildwood's Design Criteria Handbook, in terms of improvements, such as drive lane widths, sidewalks, stormwater drainage facilities, and street trees and lights.

Parking Requirements - Residential

l. Parking spaces shall be provided, as required by the Section 415.340 Off-Street Parking and Loading Requirements of the City of Wildwood Zoning Ordinance, for the R-1-A 22,000 square foot Residence District.

Landscape Requirements - Specific

m. Landscaping shall adhere to all requirements of Ordinance 410 and its accompanying Tree Manual, including the submittal of a Tree Preservation Plan in conjunction with the Site Development Plan.

n. All streets, roads, and lanes shall be appropriately landscaped as required by City's Tree Manual and Sustainable Plantings Guide and approved by the Planning and Zoning Commission on the Site Development Plan.

o. The areas of existing vegetation within the P.R.D. Overlay District boundaries identified as to be retained shall be marked on the site prior to the commencement of any disturbance in accord with the City of Wildwood's Ordinance 410. These areas shall be indicated on the Site Development Plan submitted to the City of Wildwood for Planning and Zoning Commission review and approval. Existing mature tree canopy shall be preserved in accordance with the requirements of City of Wildwood's Ordinance 410 Tree Preservation and Restoration Code.

p. A minimum **fifty (50) foot, non-disturbed buffer area of the existing woodlands** shall be maintained along the property's entire southern boundary line with the Westridge Oaks Subdivision. Non-disturbed shall be interpreted to include no utility extensions through this buffer area. A similar non-disturbed buffer area of no less than **thirty (30) feet** shall also be required along the entire western boundary line of the subject lot.

q. A Landscape Architect shall sign and submit all plans for review and approval for this mixed-use development.

Signs - Residential

r. Signs for this P.R.D. Overlay District shall be erected in accordance with Section 415.410 Sign Regulations of the City of Wildwood Zoning Ordinance for the R-1-A 22,000 square foot Residence District.

s. The location of all signage shall be as approved on the Site Development Plan by the Planning and Zoning Commission. Signage not located on common ground must be erected within an easement.

Lighting Requirements

t. The location of all lighting standards shall be as approved on the Site Development Plan. No on-site illumination source shall exceed sixteen (16) feet in height or be so situated that light is cast directly on adjoining properties. Illumination levels for all lighting shall comply with the provisions of the City of Wildwood's Zoning Code, Section 415.450 "Outdoor Lighting Requirements." A Lighting Study shall be submitted in conjunction with the Site

Development Plan indicating compliance to these requirements. The Planning and Zoning Commission shall approve the location, design, and appearance of all light standards and fixtures as part of the Site Development Plan review process.

Miscellaneous Conditions

u. The design, color, material, and location of all garden and screen walls or fences, if planned or required, shall be indicated on the Site Development Plan, as part of its review and action by the Planning and Zoning Commission and the Architectural Review Board.

v. Improvements associated with public infrastructure, such as roadways, sidewalks, and access points, shall comply with general design principles that will provide for safe and efficient movement of traffic in and around these sites and improve overall circulation in the area. These improvements shall be reviewed and approved by the Department of Public Works.

w. **Hours of construction and grading activity shall be limited to 7:00 a.m. to 6:00 p.m. Monday through Friday, and 8:00 a.m. to 6:00 p.m. on Saturday. No development (grading and construction) activity shall be authorized on Sundays.**

x. All retaining walls exceeding three (3) feet in height per section or crossing individual property lines shall be constructed of an appropriate inter-locking concrete block system. Walls crossing property lines shall be located in a maintenance easement. The design, color, material, and location of all walls shall shown on the Site Development Plan for review and action by the Planning and Zoning Commission.

y. The location of all utility easements for proposed service to this development shall be as approved by the Planning and Zoning Commission on the Site Development Plan. All utilities installed to serve this site shall be placed underground, including any existing overhead lines located on the subject property.

5. TRAFFIC GENERATION ASSESSMENT FEE

The developer shall contribute to the East Area Traffic Generation Assessment Trust Fund established by Section 140.210 of the City of Wildwood's Revised Codes. This assessment must be paid in full at the time of the first Zoning Authorization for any building or structure or when the individual issuances of building permits for the authorized lots are approved. This contribution shall not exceed the amount established by multiplying the number of parking spaces provided by the following rate:

Type of Development	*Required Contribution*
Single Family Dwelling **(detached)**	$1,085.70 /Parking Space

(Parking space is defined by Section 415.280 of the City of Wildwood Zoning Code.)

Credits to this required Traffic Generation Assessment Fee (TGA), which shall be at the discretion of the City Council, for off-site work, as defined in the enabling ordinance for this assessment, within the Center Avenue right-of-way, may be allowed. Design and engineering of these improvements to Center Avenue shall be reviewed and acted upon by the Planning and Zoning Commission on the Site Development Plan, all being in accordance with the direction of the Department of Public Works.

If type of development proposed differ than those listed, rates shall be provided by the Department of Public Works.

As this development is located within a Trust Fund area established by the City of Wildwood, any portion of the traffic generation assessment contribution, which remains, following completion of roadway improvements required by the development shall be retained in the appropriate trust fund.

The amount of this required contribution, if not submitted by January 1, 2016, shall be adjusted on that date and on the first day of January in each succeeding year thereafter in accord with the construction cost index as determined by the City of Wildwood Department of Public Works.

6. VERIFICATIONS PRIOR TO APPROVAL OF THE SITE DEVELOPMENT PLAN

Prior to approval of the Site Development Plan, the developer shall provide the following:

Stormwater Improvements

a. Submit to the Planning and Zoning Commission an engineering plan approved by the City of Wildwood Department of Public Works and the Metropolitan St. Louis Sewer District showing that adequate handling of the stormwater drainage of the site is provided.

1. The developer is required to provide adequate stormwater systems in accordance with the City of Wildwood and the Metropolitan St. Louis Sewer District standards.
2. All stormwater shall be discharged at an adequate natural discharge point.
3. Retention/detention of differential runoff of stormwater shall be required. Stormwater management shall be provided in permanent retention/detention facilities, such as ponds or other acceptable alternatives. These retention/detention facilities shall be completed and in operation prior to the issuance of building permits for an approved dwelling unit, except display lots.
4. All proposed retention/detention facilities and related stormwater improvements shall be located in a common ground area and insure perpetual maintenance to the Homeowners Association to be created at the time of platting of this development.
5. The developer of this site shall be solely responsible to provide the necessary mechanisms, as part of the Site Development Plan/Improvement Plan process, to

implement "best management practices" for stormwater management and the construction of related facilities. Minimally, these practices/facilities should include rain gardens, vegetative swales, and other options to substantially reduce the amount of stormwater leaving the subject site.

Geotechnical Report

b. Provide a Geotechnical Report covering development and grading required by improvements involved with this site, as directed by the Department of Public Works. Said report shall verify the adaptability of grading and improvements with soil and geologic conditions which are susceptible to rapid erosion, landslide, and/or creep. A statement of compliance with this study, signed by the Geotechnical Engineer preparing the report, shall be included on all Site Development Plans. The development and construction plans shall be designed to conform to the requirements and conditions of the Geotechnical Report. The Geotechnical Engineer shall be required to sign and seal all plans with a certification the proposed construction will be completed in accordance with the grading and soils requirements and conditions contained in the report.

Stormwater Pollution Prevention Plan

c. Submit a Stormwater Pollution Prevention Plan, as part of the Site Development Plan review process, indicating compliance to all Federal, State, and local requirements regarding the management of stormwater runoff to prevent siltation and erosion, while preserving water quality, both upon the site and on downstream properties.

Natural Resource Protection Plan

d. Provide a revised and final copy of the Natural Resource Protection Plan indicating all areas of the site, which are to be designated as protected and not developable. This revised and final copy of this map shall be reviewed and signed by a qualified soil scientist, who completed the analysis, and a statement indicating compliance with all the requirements of Section 1005.200 of the City of Wildwood's Subdivision and Development Regulations.

Environmental Assessments – Phase One and Two

e. **The developer shall provide to the Planning and Zoning Commission, as part of the Site Development Plan submittal package, a Phase I and Phase II Environmental Assessment Reports of the property, which indicate its current condition relative to its past utilization by other owners. Determination regarding any required mediation shall be identified and completed, prior to the approval of the Record Plat and before the occupancy of any residential unit, all being in accordance with State and federal standards and guidelines, as set forth by the United States Environmental Protection Agency (EPA) and the Missouri Department of Natural Resources (MDNR), for any determined contaminant**

exceeding a residential cleanup standard/guideline, with the cost borne for such by the developer and not the City of Wildwood.

7. RECORDING

Within ninety (90) days of approval of the Site Development Plan by the Planning and Zoning Commission, the approved plan shall be recorded with the St. Louis County Recorder of Deeds.

8. VERIFICATION PRIOR TO PERMITS

Notification to Department of Planning

a. Subsequent to approval of the Site Development Plan and prior to issuance of any grading, foundation, or building permit, all approvals from the Department of Public Works, the Missouri Department of Natural Resources, and the Metropolitan St. Louis Sewer District must be received by the Department of Planning.

b. Prior to the issuance of a foundation or building permit for any lot, which adjoins the common ground area and/or detention, basin, written certification from a Professional Engineer which verifies these areas are graded in accordance with the approved plans, must be received by the Department of Planning.

Roadway Improvements

c. Improvements to Center Avenue must be completed prior to the issuance of more than one (1) building permit. Any delays in utility company relocation and adjustments will not constitute a cause to allow occupancy prior to completion of roadway improvements.

Land Subdivision

d. Record a proper subdivision of the property and comply with all other applicable Subdivision and Development Regulations sections affecting the development of land, except as otherwise specified by this ordinance.

Indentures

e. With the filing of the record plat establishing separate lots, the developer shall record an approved indenture, which defines the necessary assessments and specific trustee obligations in accord with provisions of Section 415.470 and 415.510 of the City of Wildwood Zoning Code.

Escrow Requirements

f. All improvement and landscaping costs shall be submitted to the City of Wildwood through the standard subdivision escrow procedures.

Improvement Plans

g. The developer of this residential subdivision shall provide to the City Improvement Plans indicating construction details relative to public and private infrastructure associated with its development. Said plans will be used to calculate escrow requirements for these identified improvements.

Sanitary Sewage System

h. The developer shall provide verification from the Metropolitan St. Louis Sewer District that public sewer service has been provided to this site. Verification shall be in a form acceptable to the City of Wildwood. **This lot is part of the Town Center Neighborhood Improvement District (NID) for the required wastewater improvements that have been installed thereafter and each of the proposed properties will have an assessment associated with them that is the responsibility of that owner to pay each year.**

Potable Water Service

i. The developer shall be required to provide public potable water from the Missouri American Water Company to the property and related homesites. This area has experienced "low pressure" issues and such may affect these twelve (12) lots. Verification of acceptable service to these twelve (12) lots shall be in the form acceptable to the City of Wildwood. Additionally, the design and location of this water service system shall be reviewed and acted upon by the Planning and Zoning Commission, as part of the Site Development Plan submittal process.

9. GENERAL DEVELOPMENT CONDITIONS

a. Provide adequate temporary off-street parking for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driving conditions.

b. A grading permit is required prior to any grading on the site. Interim stormwater drainage control in the form of salutation control measures is required.

c. A copy of the most recently approved Site Development Plan for this P.R.D. Overlay District development shall be prominently displayed at all times in all sales offices for this development.

d. The petitioner shall be responsible for obtaining all necessary permits from the Department of Natural Resources Clean Water Commission as they relate to the development of this tract of land.

e. If cut and fill operations occur during a season not favorable for immediate establishment of a permanent ground cover, a fast germinating annual, such as Rye or Sudan Grasses, shall be utilized to retard erosion.

f. Failure to comply with any or all of the conditions of this ordinance shall be adequate cause for revocation of permits by issuing City of Wildwood Departments or Commissions.

g. The Zoning Enforcement Officer of the City of Wildwood, Missouri, shall enforce the conditions of this ordinance in accord with Site Development Plans approved by the Planning and Zoning Commission and the Department of Planning.

h. Any other applicable zoning, subdivision, or other regulations or requirements of the City, whether in effect at the adoption of this ordinance or as may be hereinafter adopted, shall further apply to the development of this property as authorized by this Planned Residential Development Overlay District Ordinance, except as may be provided by law. Nothing herein shall be deemed a waiver of any subdivision, zoning or other development regulation of the City whether by implication or reference.

i. This zoning approval is conditioned on compliance with the Zoning Code, Subdivision Code, and all applicable laws of the City. Such additional regulations are supplemental to the requirements herein and no modification of any applicable regulations shall result from this Planned Residential Development Overlay District ordinance, except where this ordinance has expressly modified such regulations by reference to the applicable provision authorizing such modification.

10. PUBLIC SPACE REQUIREMENTS

a. Developer shall construct improved public space in conformance with or otherwise satisfying the requirements of the City's Public Space Ordinance, Chapter 415.260 and 415.270 of the City of Wildwood's Zoning Ordinance. The City Council accepts the findings of the Public Space Study adopted therein and determines the compliance with the Public Space Ordinance provisions will address the impact of this specific development on public space needs in a manner and amount that is equal to less than an amount that is roughly proportional to the actual or anticipated impact. The installation of required public space improvements shall be as required by the applicable ordinances, but shall be completed prior to issuance of any occupancy (temporary or final) permit for the authorized by this ordinance. Unless otherwise approved pursuant to the procedures set forth in the Public Space Ordinance, **the public space attributable to this development, based upon the number of authorized dwelling units at a rate of 1,742.4 square feet per new single family dwelling, is 20,908.80 square feet in total area..**

Editor's Note: Changes to the conditions, as directed by the Planning and Zoning Commission, are shown in bolded, blue type, while a single, strike-through line indicates deletions to them.

Section Three. This ordinance shall be in full force and effect on and after its passage and approval.

This Bill was passed and approved this 9 day of MARCH, 2015, by the Council of the City of Wildwood, Missouri after having been read by title, or in full, two (2) times prior to its passage.

Presiding Officer

The Honorable Timothy Woerther, Mayor

ATTEST:

City Clerk

Lynne Greene Beldner
Deputy City Administrator/City Clerk

ATTACHMENT C
Background Information

Metropolitan
St. Louis Sewer
District

2350 Market Street
St. Louis, MO 63103-2555
(314) 768-6200

January 19, 2016

Special Inspections
16624 Old Chesterfield Rd
Chesterfield, MO 63017

In reply refer to
MSD Ref. No.: P-0030612-00

Gentlemen:

In the review of plans for:
WEST AVE 380' SE OF NEW COLLEGE (RES 12 LOT SUBD - 2710 WEST AVE)
New

This is to (X) request ( ) confirm:

( ) Revised copies of plans for further review as noted on enclosed plan.

(9) Additional copies of plans as noted on enclosed plan.

( ) Revised copies of plans for further review as requested in conference.

( ) Additional copies of plans as requested in conference.

REMARKS:

Your cooperation in furnishing us with the above will facilitate final approval of the project for construction.

By direction of Richard Unverferth, Director of Engineering.

Yours truly,

William H. Croker, P.E. 768-6304,
Engineer
Engineering Department

cc: Developer ✓
File

METROPOLITAN ST. LOUIS SEWER DISTRICT
2350 MARKET STREET, ST. LOUIS, MO 63103, 314-768-6272

ENGINEERING DEPARTMENT RECEIPT FOR PLANS

DATE: 09/24/2015 M.S.D. REFERENCE NO.: P-0030612-00

THE ENGINEERING DEPARTMENT OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT HAS ON THIS DATE RECEIVED 3 COPIES OF THE PRELIMINARY SEWER PLANS.

New

TITLE: WEST AVE 380' SE OF NEW COLLEGE (RES 12 LOT SUBD - 2710 WEST AVE)

LOCATION
West Ave. 380' SE of New College

MUNICIPALITY
Wildwood

WATERSHED
Caulks Creek/Missouri River

TREATMENT FACILITY
Missouri River

SANITARY DISPOSAL: Caulks Creek Sanitary system

STORM DISPOSAL: To onsite detention then creek

COMBINED DISPOSAL: None

ENGINEER: Special Inspections
16624 Old Chesterfield Rd
Chesterfield, MO 63017

CONTACT: Mike Mahaney
TELEPHONE: 578-7231
FAX:
Email:

OWNER: Whalen Custom Homes, Inc.
228 S. Kirkwood Rd
St. Louis, MO 63122

CONTACT: Mike Whalen
TELEPHONE: 575-7645
FAX:
Email:

DEDICATION AGREEMENT: Y ACREAGE 5.55 USAGE: RES

* REVIEW FEES AND CONNECTION FEES MUST BE TWO (2) SEPARATE CHECKS.

WHEN EASEMENTS ARE REQUIRED, PLANS WILL NOT BE APPROVED UNTIL:

1. NEEDED RIGHT-OF-WAY HAS BEEN ACQUIRED.

2. A SIGNED SUBDIVISION PLAT, SHOWING EASEMENTS READY FOR RECORDING, HAS BEEN SUBMITTED.

3. THE RECORDED BOOK AND PAGE NUMBERS OF ANY EXISTING EASEMENT TO BE USED SHALL BE NOTED ON THE PLAN. ANY RESTRICTIVE CONDITIONS AS TO THE USE OF EASEMENTS SHALL BE NOTED.

PRELIMINARY EXAMINATION OF THE PLANS INDICATES THAT THE FOLLOWING WILL BE REQUIRED:

1. Submittal Charge $450.00 - RCVD.
2. Addresses & Zip Code
3. Agreemt to Dedicate & Use
4. Connection Fee $12,864.00
5. Water Quality - RCVD.
6. Channel Protection - RCVD.
7. Easements
8. Maintenance Agreement w/Exhibit
9. Recording Fee TBD
10. Subdivision Plat
11. Review Fee $839.49 - RCVD.
12. Caulks Creek Contract
13. Caulks Creek Surcharge $22,082.50

ABSENCE OF ANY OF THE ABOVE REQUIREMENTS WILL DELAY APPROVAL OF THIS PLAN.

(ALL FURTHER CORRESPONDENCE MUST HAVE THE M.S.D. REFERENCE NUMBER NOTED)

BASE MAP NO: 24V1

cc:
Engineering Dept. MSD Owner
Permit Dept. MSD Environmental Comp. MSD
Consulting Engineer Central Files MSD

Wunnenberg's Page: 43
Grid: JJ26

REVIEWING ENGINEER
William H. Croker, P.E. 768-6304

MSD Form 5.2 (Rev. 8/87)

AGREEMENT TO DEDICATE AND USE

This agreement entered into this **19** day of **January, 2016** by and between **Whalen Custom Homes, Inc.**, Party of the First Part, and the Metropolitan St. Louis Sewer District, a municipal corporation and a political subdivision of the State of Missouri, Party of the Second Part.

WHEREAS, Party of the First Part is desirous of securing sewage disposal for a tract or parcel of land known as, **WEST AVE 380' SE OF NEW COLLEGE (RES 12 LOT SUBD - 2710 WEST AVE)** (MSD REF # **P-0030612-00**)

WHEREAS, Party of the Second Part is desirous of providing such sewage disposal to Party of the First Part.

NOW, THEREFORE, in consideration of the premises, and of the performance of the covenants hereinafter set out, it is mutually agreed that, upon completion of the sewer or sewers and treatment plants, if any and after final inspection has been completed by Party of the Second Part, Party of the First Part shall file with the Party of the Second Part a Deed of Dedication conveying and transferring to The Metropolitan St. Louis Sewer District all rights, titles and interests in the aforesaid sewers, together with the appropriate sewer easements and treatment plants, and Party of the Second Part shall accept for public use said Dedication, and shall thereafter undertake the operation and maintenance of all aforesaid sewers, easements and treatment plants. In addition, however, the Party of the First Part agrees that the Party of the Second Part or any permittee thereof may connect with and use any such sewer or sewers and appurtenances thereto at anytime prior to such dedication.

IN WITNESS WHEREOF, the Party of the First Part and the Party of the Second Part have hereunto set their hands and seals the day and year first above written.

_____ _____ (Corporate Seal)

Attest _____

THE METROPOLITAN ST. LOUIS SEWER DISTRICT

By _____

Richard Unverferth

Director of Engineering

MSD 3.11 Corporate (Revised 10-01-94)

AGREEMENT TO DEDICATE AND USE

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WHEREAS, Party of the Second Part is desirous of providing such sewage disposal to Party of the First Part.

NOW, THEREFORE, in consideration of the premises, and of the performance of the covenants hereinafter set out, it is mutually agreed that, upon completion of the sewer or sewers and treatment plants, if any and after final inspection has been completed by Party of the Second Part, Party of the First Part shall file with the Party of the Second Part a Deed of Dedication conveying and transferring to The Metropolitan St. Louis Sewer District all rights, titles and interests in the aforesaid sewers, together with the appropriate sewer easements and treatment plants, and Party of the Second Part shall accept for public use said Dedication, and shall thereafter undertake the operation and maintenance of all aforesaid sewers, easements and treatment plants. In addition, however, the Party of the First Part agrees that the Party of the Second Part or any permittee thereof may connect with and use any such sewer or sewers and appurtenances thereto at anytime prior to such dedication.

IN WITNESS WHEREOF, the Party of the First Part and the Party of the Second Part have hereunto set their hands and seals the day and year first above written.

_____ _____ (Corporate Seal)

Attest _____

THE METROPOLITAN ST. LOUIS SEWER DISTRICT

By _____

Richard Unverferth

Director of Engineering

MSD 3.11 Corporate (Revised 10-01-94)

CONTRACT

THIS CONTRACT, made and entered into this _____ day of _____, by and between Whalen Custom Homes, Inc.(Developer), and THE METROPOLITAN ST. LOUIS SEWER DISTRICT, a municipal corporation and political subdivision of the State of Missouri (MSD).

WHEREAS, MSD proposes to design and construct improvements and renovations to the Caulks Creek Pump Station "A" and the Caulks Creek Force Main, at an estimated cost of Thirteen Million Four Hundred Thousand Dollars ($13,400,000.00), in order to improve and eventually to serve the area tributary to Caulks Creek Pump Station "A" and Caulks Creek Force Main which area includes a construction project of Developer known as WEST AVE 380' SE OF NEW COLLEGE (RES 12 LOT SUBD - 2710 WEST AVE) P-0030612-00, and

WHEREAS, the aforesaid improvements are necessary to provide additional capacity, and

WHEREAS, the aforesaid improvements to the Caulks Creek Pump Station "A" and Caulks Creek Force Main will allow MSD to provide service to a watershed area consisting of approximately 24,731 acres of which 12,737 acres are undeveloped, and

WHEREAS, of the 12,737 total undeveloped acres approximately 50% thereof is deemed to be developable, and

WHEREAS, "developable acre" as used herein is defined to be all lot areas, street right of ways, easements and common ground, and

WHEREAS, the estimated total cost of design, construction and related costs using the aforesaid formula is approximately $2,750.00 per developable acre, and

WHEREAS, the Developer and MSD each desire to insure and expedite the improvements to the Caulks Creek Pump Station "A" and Caulks Creek Force Main,

NOW, THEREFORE, the parties hereto do mutually agree as follows:

1. In consideration of MSD's approval of new connections for Developer's said WEST AVE 380' SE OF NEW COLLEGE (RES 12 LOT SUBD - 2710 WEST AVE) P-0030612-00 project, Developer agrees to pay to MSD the sum of $2,750.00 per acre based on 8.03 developable acres in its aforesaid project as reimbursement of MSD for the design, construction and related costs for the improvements and renovations to the Caulk's Creek Pump Station "A" and the Caulk's Creek Force Main which will serve said project. Payment of $2,750.00 per acre shall hereafter be made by Developer prior to MSD's approval to release a building permit for any lot in Developer's aforesaid project.

WHEREFORE, the parties hereto have executed this agreement on the day and year first above written.

ATTEST: By_____

_____ _____

Secretary Developer

STATE OF MISSOURI)
) SS.
_____OF ST. LOUIS)

On this _____ day of _____, 20_____, before me appeared _____, to me personally known, who being by me duly sworn did say he is the President of _____, a _____ corporation authorized to do business in Missouri, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed on behalf of said corporation by authority of the corporation's Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in _____ the day and year first above written.

My commission expires _____ _____
Notary Public

The Metropolitan St. Louis Sewer District

ATTEST:

_____ By _____
Tim R. Snoke, Secretary-Treasurer Brian Hoelscher, Executive Director

Approved as to Form _____
Susan M. Myers, General Counsel

STATE OF MISSOURI)
) SS.
CITY OF ST. LOUIS)

On this _____ day of _____, 20____, before me appeared Brian Hoelscher, to me personally known, who being by me duly sworn did say he is the Executive Director of The Metropolitan St. Louis Sewer District, a body corporate, municipal corporation and political subdivision of the State of Missouri; that the seal affixed to the foregoing instrument is the seal of said corporation; that said instrument was signed and sealed on behalf of said corporation by authority of its Board of Trustees; and said Brian Hoelscher acknowledged said instrument to be the free act and deed of said corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in St. Louis, Missouri the day and year first above written.

My commission expires _____. _____
Notary Public

CONTRACT

THIS CONTRACT, made and entered into this _____ day of _____, by and between Whalen Custom Homes, Inc.(Developer), and THE METROPOLITAN ST. LOUIS SEWER DISTRICT, a municipal corporation and political subdivision of the State of Missouri (MSD).

WHEREAS, MSD proposes to design and construct improvements and renovations to the Caulks Creek Pump Station "A" and the Caulks Creek Force Main, at an estimated cost of Thirteen Million Four Hundred Thousand Dollars ($13,400,000.00), in order to improve and eventually to serve the area tributary to Caulks Creek Pump Station "A" and Caulks Creek Force Main which area includes a construction project of Developer known as WEST AVE 380' SE OF NEW COLLEGE (RES 12 LOT SUBD - 2710 WEST AVE) P-0030612-00, and

WHEREAS, the aforesaid improvements are necessary to provide additional capacity, and

WHEREAS, the aforesaid improvements to the Caulks Creek Pump Station "A" and Caulks Creek Force Main will allow MSD to provide service to a watershed area consisting of approximately 24,731 acres of which 12,737 acres are undeveloped, and

WHEREAS, of the 12,737 total undeveloped acres approximately 50% thereof is deemed to be developable, and

WHEREAS, "developable acre" as used herein is defined to be all lot areas, street right of ways, easements and common ground, and

WHEREAS, the estimated total cost of design, construction and related costs using the aforesaid formula is approximately $2,750.00 per developable acre, and

WHEREAS, the Developer and MSD each desire to insure and expedite the improvements to the Caulks Creek Pump Station "A" and Caulks Creek Force Main,

NOW, THEREFORE, the parties hereto do mutually agree as follows:

1. In consideration of MSD's approval of new connections for Developer's said WEST AVE 380' SE OF NEW COLLEGE (RES 12 LOT SUBD - 2710 WEST AVE) P-0030612-00 project, Developer agrees to pay to MSD the sum of $2,750.00 per acre based on 8.03 developable acres in its aforesaid project as reimbursement of MSD for the design, construction and related costs for the improvements and renovations to the Caulk's Creek Pump Station "A" and the Caulk's Creek Force Main which will serve said project. Payment of $2,750.00 per acre shall hereafter be made by Developer prior to MSD's approval to release a building permit for any lot in Developer's aforesaid project.

WHEREFORE, the parties hereto have executed this agreement on the day and year first above written.

ATTEST: By_____

_____ _____

Secretary Developer

STATE OF MISSOURI)
) SS.
_____OF ST. LOUIS)

On this _____ day of _____, 20_____, before me appeared _____, to me personally known, who being by me duly sworn did say he is the President of _____, a _____ corporation authorized to do business in Missouri, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed on behalf of said corporation by authority of the corporation's Board of Directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in _____ the day and year first above written.

My commission expires _____ _____
Notary Public

The Metropolitan St. Louis Sewer District

ATTEST:

_____ By _____
Tim R. Snoke, Secretary-Treasurer Brian Hoelscher, Executive Director

Approved as to Form

_____
Susan M. Myers, General Counsel

STATE OF MISSOURI)
) SS.
CITY OF ST. LOUIS)

On this _____ day of _____, 20____, before me appeared Brian Hoelscher, to me personally known, who being by me duly sworn did say he is the Executive Director of The Metropolitan St. Louis Sewer District, a body corporate, municipal corporation and political subdivision of the State of Missouri; that the seal affixed to the foregoing instrument is the seal of said corporation; that said instrument was signed and sealed on behalf of said corporation by authority of its Board of Trustees; and said Brian Hoelscher acknowledged said instrument to be the free act and deed of said corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in St. Louis, Missouri the day and year first above written.

My commission expires _____. _____
Notary Public

Travis Newberry

From: Mike Whalen <mike@whalencustomhomes.com>
Sent: Thursday, February 25, 2016 8:25 AM
To: Travis Newberry; Joe Vujnich; Kathy Arnett
Subject: Fwd: Stone Mill

---------- Forwarded message ----------
From: **Dave Phipps** <daveph@metrowest-fire.org>
Date: Thu, Jan 21, 2016 at 9:12 AM
Subject: RE: Stone Mill
To: Mike Whalen <mike@whalencustomhomes.com>
Cc: Joe Vujnich <JVujnich@cityofwildwood.com>

Mike,

I have reviewed the attached site plan for Stone Mill. Your street is 22 feet wide, any street under 26 foot wide is required to restrict parking on one side, no parking signage is required and must be record on the plat. You will need a resolution from the fire district for the Missouri American Water Co to cover the water main extension and fire hydrant locations, when you start the project I will issue the resolution.

David E. Phipps

Fire Marshal

Metro West Fire Protection District

(636) 821-5806

From: Mike Whalen [mailto:mike@whalencustomhomes.com]
Sent: Wednesday, January 20, 2016 11:54 AM
To: Dave Phipps <daveph@metrowest-fire.org>
Subject: Fwd: Stone Mill

Fire Marshall Phipps:

Thank you for taking the time to review my plan. Attached, please find the site plan and utility plan. Please don't hesitate to call if you have any questions or concerns. You can reach me at 314-575-7645. Thanks for your service. My little brother is a Fireman in North St. Louis City. I loo forward to hearing from you.

WILDWOOD

February 24, 2016

Whalen Custom Homes
Attn: Mike Whalen
338 S. Kirkwood Road
Kirkwood, Missouri 63112

Re: Site Development Plan for Stone Mill Subdivision – R-1A District with Planned Residential Development Overlay District (Amended Ordinance #2088)

Dear Mr. Whalen,

The Department of Planning has completed its second review of the Site Development Plan that has been submitted for the 8.03 acre tract of land located on the west side of Center Avenue, south of Manchester Road. This review compared the compliance of this plan and related components to the approved site-specific ordinance for the project, and the Zoning Ordinance requirements for residential developments of this type. This review discovered a number of items that need to be addressed, before the plan can be submitted to the Planning and Zoning Commission for its review and action, beginning with its Site Plan Subcommittee. These items can be summarized as follows:

1. Please provide preliminary comments from Metropolitan St. Louis Sewer District (MSD) and Metro West Fire Protection District.
2. Please submit a Geotechnical Study to the Department of Public Works for its review.
3. Please correct the density calculations listed in Development Note #6. The following calculations are correct: 7.38 acres x 1.75 units/acre=12.915 units, 12 lots permitted
4. Please add to General Note #10 to read, "Street trees and site landscaping shall be as required by the City of Wildwood and comply with its Tree Manual and Sustainable Plantings Guide.
5. Please add the following sentence to General Note #15: "Design, engineering, and construction costs are to be shared between developer and the City of Wildwood."
6. Please include the Ordinance #2088 as part of the "Site Development Plan" title block.
7. Please provide tree preservation calculations that include existing canopy, canopy to be removed, and canopy retained. Please note, this site is required to retain at least 30% of the existing tree canopy.
8. Please provide more detailed Public Space calculations, as the calculation for the multiple-use trail appears to be inaccurate.
9. Please move the overflow area shown between Lot Four (4) and Lot Five (5) farther to the west, so it is not located between the two (2) planned homes.
10. Please provide the size of the areas to be vacated and dedicated to the City as Public Space, which are located on the site's southwest and southeast corners (formerly right-of-way of Center and West Avenues).

11. Please consider switching the configuration of the home and garage on Lot Ten (10), so as the drive aisle and garage are located on the west side of the lot. This request is to ensure the rear elevation and yard of the home on Lot Eleven (11) is not facing a garage entry.
12. Please add "(by developer)" to the note indicating the proposed ten foot (10') multi-use trail on Sheet 2.
13. Please remove any easement to MSD that is located within the fifty foot (50') non-disturbed buffer area and the Natural Resource Protection Line.
14. Please be aware, the Department is concerned about the outfall pipe from the BMP Reserve Area, which is located near the trail and its potential impact on it. It appears from the Grading Plan a grass swale is to transport the stormwater from the end of this pipe to another pipe placed under the trail. When Improvement Plans are submitted for this project, please ensure this design is functional and will not damage the trail.
15. Please provide a cross-section detail of the proposed trail and sidewalk.
16. Please indicate the accurate sheet number on the Natural Resource Protection Plan sheet.

This item is scheduled before the Site Plan Subcommittee of the Planning and Zoning Commission on March 7, 2016, at 5:45 p.m., in the City Hall Community Room, 16860 Main Street, Wildwood, Missouri 63040. Please submit fifteen (15) full-sized plan sets, with these changes, to the Department of Planning no later than Thursday, March 3rd.

If you should have any questions or comments regarding this information, please feel free to contact the Department of Planning at (636) 458-0440. Thank you for your cooperation in this matter.

Sincerely,
CITY OF WILDWOOD

Joe Vujnich, Director
Department of Planning

Cc: The Honorable Timothy Woerther, Mayor
Ryan S. Thomas, P.E., City Administrator
Rick Brown, P.E. and P.T.O.E., Director of Public Works
Kathy Arnett, Assistant Director of Planning and Parks
Travis Newberry, Planner

WILDWOOD

January 19, 2016

Whalen Custom Homes
Attn: Mike Whalen
338 S. Kirkwood Road
Kirkwood, MO 63112

Re: Site Development Plan for Stone Mill Subdivision – R-1A District with Planned Residential Development Overlay District (Amended Ordinance #2088)

Dear Mr. Whalen,

The Department of Planning has completed its initial review of the Site Development Plan that has been submitted for the 8.3 acre tract of land located on the west side of Center Avenue, south of Manchester Road. This review compared the compliance of this plan and related components to the approved site-specific ordinance for the project, and the Zoning Ordinance requirements for residential developments of this type. This review discovered a number of items that need to be addressed, before the plan can be submitted to the Planning and Zoning Commission for its review and action. These items can be summarized as follows:

1. Please provide the correct site address in Development Note #1.
2. Please provide preliminary comments from Metropolitan St. Louis Sewer District and Metro West Fire Protection District.
3. Please submit a Geotechnical Study to the Department of Public Works for its review.
4. Please provide a Stormwater Pollution Protection Plan, as a component of this package.
5. Please provide the Natural Resource Protection analysis table and map.
6. Please note that the twenty foot (20') trail easement is not a required deduction under the PRD Regulations. Make this adjustment and please revise the associated density calculations.
7. Please add note: "Entrance, street intersection, cul-de-sac shall be constructed to City of Wildwood standards."
8. Please change the Flood Note to reflect revised Flood Insurance Rate Map adopted by FEMA effective February 4, 2015.
9. Provide the zoning of adjacent parcels of ground, if different than the site.
10. Please add the public space table to Sheet 2.0, given the trail constitutes much of the dedication.
11. Please delete "future construction by others" from the note about the proposed ten foot (10') wide multi-use trail and note the construction of such is required of the developer (see Ordinance #2088).
12. Please show the required fifty foot (50') non-disturbed buffer area of the existing woodlands along the property's entire southern boundary line, which is adjacent to Westridge Oaks Subdivision.
13. Please indicate the thirty foot (30') build-to line on the property's entire western boundary as also the thirty foot (30') non-disturbed buffer area.

14. The thirty foot (30') build-to line that is shown along the southern boundary of the site is incorrectly measured from the easement, not the property line. Please correct.
15. Please remove the ten foot (10') wide proposed easement to MSD along the property's western and southern boundaries. These areas are within the non-disturbed buffer protected by ordinance and, therefore, cannot be used as such.
16. Please note if MSD standards will require the proposed bioretention basin to be in an easement or common ground. If not, please note how the homeowners association will access the area for ongoing maintenance, whether through easement or common ground designation, since this feature is located in the rear yard areas of two (2) lots.
17. Please indicate the dimensions and material of the culvert located at the northwest corner of the property.
18. Please provide an easement for the 1,500 square foot amended soils BMP located at the northeast corner of the property.
19. Please indicate a stormwater easement along the south side of the public right-of-way, on the private lots, to cover the planned swale to be constructed across their respective frontages for maintenance purpose.
20. Please indicate the sight distance triangle at the intersection of Center Avenue and Falstone Mill Court.
21. Please show the required improvements on Center Avenue.
22. Please identify Center Avenue as a public street.
23. Please remove all driveway approaches/aprons from side yard setback areas.
24. Please show dimensions for the drive aisle that provides access to Lots 11 and 12.
25. Please restrict parking to one side of the street on Falstone Mill Court. Provide catalog cutsheet and locations of "No Parking" signs, per Metro West Fire Protection District requirements.
26. Please crown Falstone Mill Ct. This will require a ditch along both sides of the street. The Department would like curbs provided along the outside of Falstone Mill Ct. with curb breaks provided for storm water drainage into the adjacent ditch.

Once the modifications have been made to the plan, please return three (3) copies of it for further review and comment. The ordinance requires that the Site Development Plan (SDP) be approved by the Planning and Zoning Commission one (1) year after the ordinance is in effect. To meet the March 6, 2016 deadline for SDP approval, it will need to be ready for the February 16, 2016 meeting of the Site Plan Subcommittee of the Planning and Zoning Commission. If this deadline cannot be met, please send a letter requesting the Planning and Zoning Commission extend this deadline.

If you should have any questions or comments regarding this information, please feel free to contact the Department of Planning at (636) 458-0440. Thank you for your cooperation in this matter.

Sincerely,
CITY OF WILDWOOD

Joe Vujnich, Director
Department of Planning

Cc: The Honorable Timothy Woerther, Mayor
Ryan S. Thomas, P.E., City Administrator
Rick Brown, P.E. and P.T.O.E., Director of Public Works
Kathy Arnett, Assistant Director of Planning and Parks
Travis Newberry, Planner

SCI ENGINEERING, INC.
130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

Phase One Environmental Site Assessment

STONE MILL
WILDWOOD, MISSOURI

March 2013

CITY OF WILDWOOD
JUL 31 2014
DEPT OF PLANNING & PARKS

Prepared for:

LOMBARDO HOMES ST. LOUIS

SCI No. 2013-0121.20

SCI ENGINEERING, INC.

CONSULTANTS IN DEVELOPMENT,
DESIGN AND CONSTRUCTION
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

March 8, 2013

Mr. Jeff Boland
Lombardo Homes St. Louis
2299 Technology Drive
O'Fallon, Missouri 63368

RE: Phase One Environmental Site Assessment
Stone Mill
Wildwood, Missouri
SCI No. 2013-0121.20

Dear Mr. Boland:

SCI Engineering, Inc. (SCI) has completed the Phase One Environmental Site Assessment at the above-referenced site, the report of which is contained herein. Phase One activities consisted of historical and public records research, historical review, interviews, and a reconnaissance survey.

Based on the activities which were performed in general accordance with the ASTM Practice E 1527-05 for Phase One Environmental Site Assessments, SCI identified evidence of recognized environmental conditions in connection with the subject site. These issues are further discussed in Section 9.0.

SCI appreciates being of service to you on this project. Please contact us if you have any questions or comments regarding this report.

Respectfully,

SCI ENGINEERING, INC.

Benjamin K. Butterfield
Staff Scientist

Karl E. Ruhmann, P.E., R.G.
Vice President

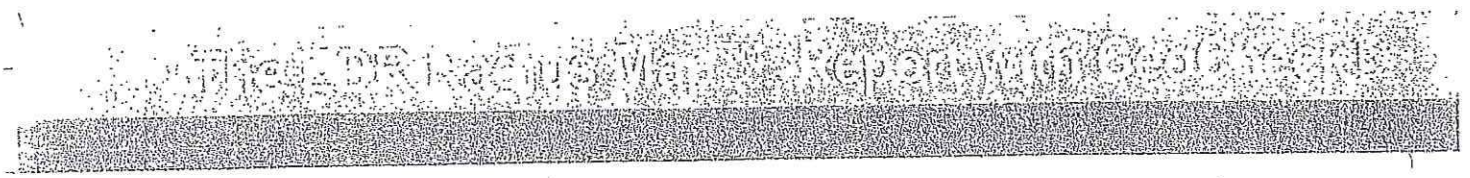
BKB/KER/lf/rah

Enclosure

V:\1soils\1NEW\PROJECT FILES\2013 PROJECTS\2013-0121 Stone Mill\ES\20\130121.20 Phase One ESA.doc

Stone Mill
Center Ave
Grover, MO 63040

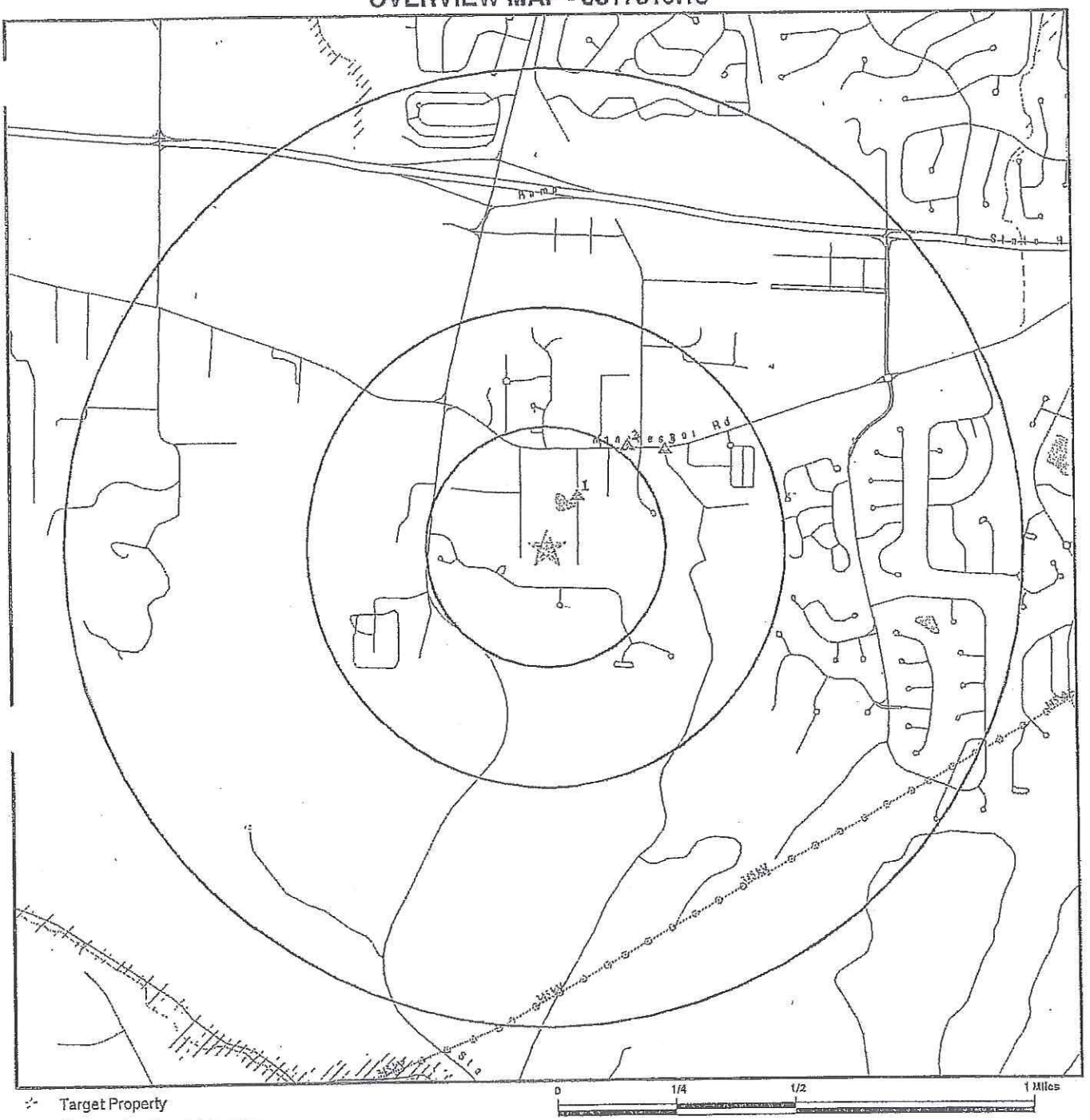
Inquiry Number: 3517510.1s
February 12, 2013



EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

OVERVIEW MAP - 3517510.1s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

TE NAME: Stone Mill	CLIENT: SCI Engineering, Inc.
ADDRESS: Center Ave	CONTACT: Ben Butterfield
Grover MO 63040	INQUIRY #: 3517510.1s
LAT/LONG: 38.5732 / 90.6408	DATE: February 12, 2013 2:17 pm

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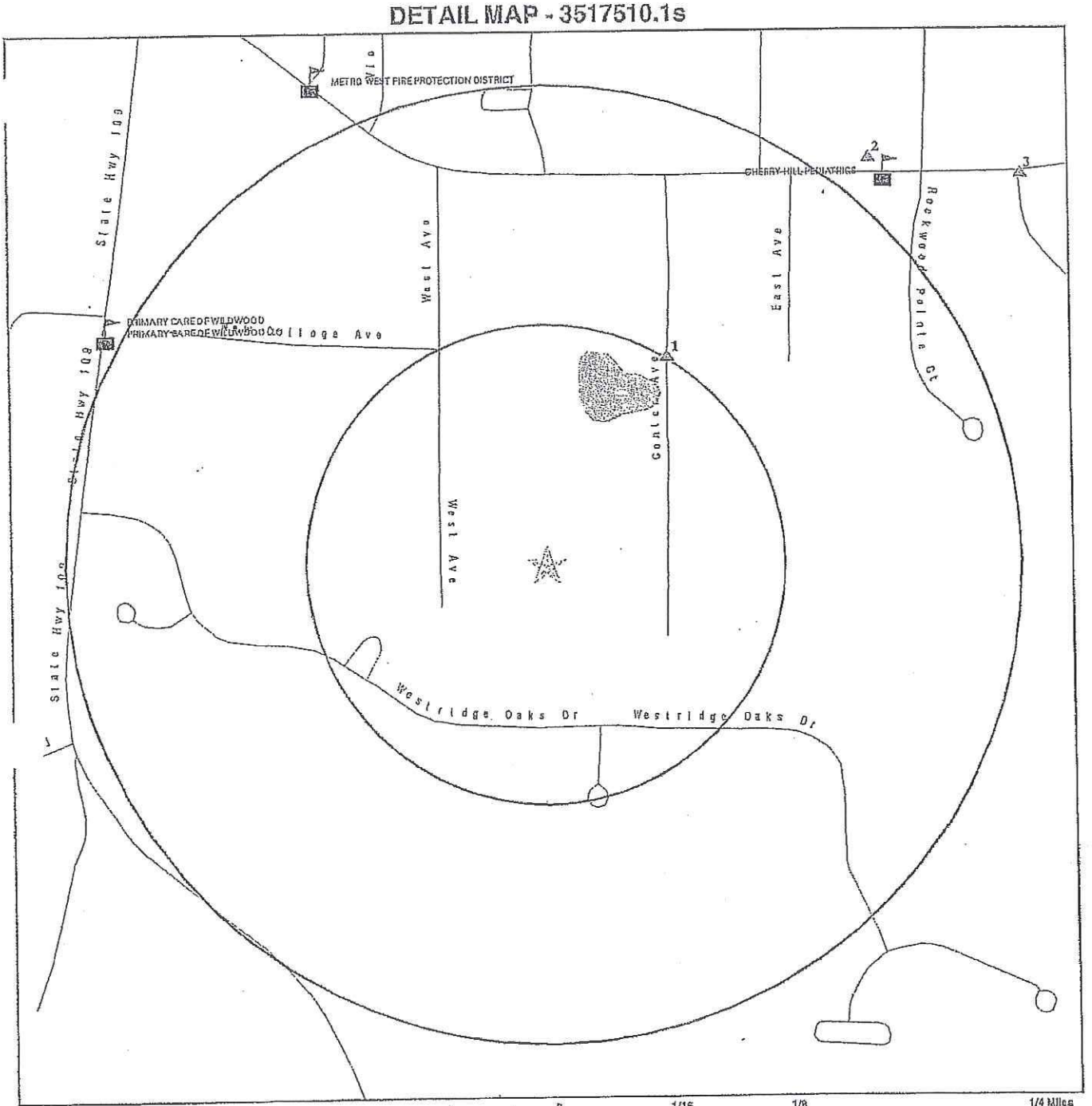
DETAIL MAP - 3517510.1s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Stone Mill ADDRESS: Center Ave Grover MO 63040 LAT/LONG: 38.5732 / 90.6408	CLIENT: SCI Engineering, Inc. CONTACT: Ben Butterfield INQUIRY #: 3517510.1s DATE: February 12, 2013 2:21 pm

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

CENTER AVE
GROVER, MO 63040

COORDINATES

Latitude (North):	38.5732000 - 38° 34' 23.52"
Longitude (West):	90.6408000 - 90° 38' 26.88"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	705527.1
UTM Y (Meters):	4271848.0
Elevation:	780 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	38090-E6 EUREKA, MO
Most Recent Revision:	1993
East Map:	38090-E5 MANCHESTER, MO
Most Recent Revision:	1993

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2010
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Permitted Facility List

State and tribal leaking storage tank lists

LAST..... Leaking Aboveground Storage Tanks
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST..... Petroleum Storage Tanks

EXECUTIVE SUMMARY

AST..... Aboveground Petroleum Storage Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL..... Sites with Controls

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Site Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
HIST LF..... Solid Waste Facility Database List
SWRCY..... Solid Waste Recycling Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
DEL SHWS..... Registry Sites Withdrawn or Deleted
CDL..... Environmental Emergency Response System
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Environmental Response Tracking Database

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision

EXECUTIVE SUMMARY

UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
FINDS..... Facility Index System/Facility Registry System
RAATS..... RCRA Administrative Action Tracking System
RMP..... Risk Management Plans
UIC..... Underground Injection Wells Database
DRYCLEANERS..... Drycleaners in Missouri Listing
MO RRC..... Certified Hazardous Waste Resource Recovery Facilities
NPDES..... Permitted Facility Listing
AIRS..... Permit Facility Listing
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
PRP..... Potentially Responsible Parties
MINES..... Industrial Mineral Mines Database
EPA WATCH LIST..... EPA WATCH LIST
US FIN ASSUR..... Financial Assurance Information
PCB TRANSFORMER..... PCB Transformer Registration Database
2020 COR ACTION..... 2020 Corrective Action Program List
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
Financial Assurance..... Financial Assurance Information Listing
COAL ASH..... Coal Ash Disposal Sites

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat..... EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks.

A review of the LUST list, as provided by EDR, and dated 12/04/2012 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GROVER	*OLD RT 100*	*NE 1/4 - 1/2 (0.272 mi.)*	*2*	*8*
LAKE CHESTERFIELD AUTOMOTIVE	*16944 MANCHESTER RD*	*NE 1/4 - 1/2 (0.323 mi.)*	*3*	*13*

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/11/2012 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MODOT GROVER	2639 CENTER ST	NNE 1/8 - 1/4 (0.127 mi.)	1	7

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 23 records.

Site Name	Database(s)
EDITH WALDEN CLEANERS	DRYCLEANERS
COLONIAL DRY CLEANERS & SHIRT LNDR	DRYCLEANERS
CASSIDY CLEANERS	DRYCLEANERS
COUNTRY CLUB CLEANERS	RCRA NonGen / NLR, FINDS, DRYCLEANERS
BALLWIN BAPTIST CHURCH	CERC-NFRAP
SOS RENTAL	CERC-NFRAP
BRIDLE TRAILS WEST	CERC-NFRAP
ABRAHAM RESIDENCE	CERC-NFRAP
BRIDGETON LANDFILL, L.L.C.	SWF/LF, HIST LF, Financial Assurance
SPEEDY CAR WASH	LUST, UST
BALLWIN FIRE DISTRICT	LUST, UST
SONNY'S AUTOMOTIVE	LUST, UST
MOBIL ON THE RUN #609	UST
POND CENTRAL OFFICE CF1712	UST
QUIK TRIP	AST
SPEEDY CAR WASH LLC	AST
ENERGY PETROLEUM	AST
WILDWOOD AMOCO	AST
CVS PHARMACY #5689	RCRA-SQG
DON ESSEN CHEVROLET	RCRA NonGen / NLR
VEECO INVESTMENT CO	RCRA NonGen / NLR
ROY E DUENKE CABINET CO	RCRA NonGen / NLR
GAYWOOD MFG CO	RCRA NonGen / NLR

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	2	NR	NR	2
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	1	NR	NR	NR	1
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MO RRC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
MINES	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
1 NNE 1/8-1/4 0.127 mi. 669 ft. Relative: Higher Actual: 780 ft.	MODOT GROVER 2639 CENTER ST WILDWOOD, MO 63040	RCRA NonGen / NLR	1012211526 MOR000535898

RCRA NonGen / NLR:

Date form received by agency:	02/25/2010
Facility name:	MODOT GROVER
Facility address:	2639 CENTER ST WILDWOOD, MO 630401114
EPA ID:	MOR000535898
Mailing address:	PO BOX 270 JEFFERSON CITY, MO 65102
Contact:	KEVIN WIDEMAN
Contact address:	PO BOX 270 JEFFERSON CITY, MO 65102
Contact country:	US
Contact telephone:	(573) 526-4171
Contact email:	KEVIN.WIDEMAN@MODOT.MO.GOV
EPA Region:	07
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MODOT
Owner/operator address:	PO BOX 270 JEFFERSON CITY, MO 65102
Owner/operator country:	US
Owner/operator telephone:	(573) 526-4171
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	12/10/2009
Owner/Op end date:	Not reported

Owner/operator name:	MODOT
Owner/operator address:	PO BOX 270 JEFFERSON CITY, MO 65102
Owner/operator country:	US
Owner/operator telephone:	(573) 526-4171
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	12/10/2009
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

MODOT GROVER (Continued) 1012211526

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/22/2010
Facility name: MODOT GROVER
Classification: Small Quantity Generator

Date form received by agency: 12/10/2009
Facility name: MODOT GROVER
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Violation Status: No violations found

2
NE
1/4-1/2
0.272 mi.
1438 ft.

GROVER
OLD RT 100
GROVER, MO 63040

LUST U001159274
UST N/A

Relative:
Higher

Actual:
795 ft.

LUST:
Facility ID: ST0012135
Region: SL - St. Louis Regional Office
Lat/Long (dms): Not reported
Spill Number: Not reported
Release Date: 11/01/1991
Release Type: UNDERGROUND STORAGE TANK
Date Cleanup Started: 11/01/1991
Date Cleanup Finished: 05/28/1992
Expedited: No
Expedited Date: Not reported
Expenditures From The American Recovery and Reinvestment Act of 2009No
Reopened Date: Not reported
Number Of Remediation Monitoring Wells: 0
Active: No
Date Of NFA Letter From DNR: Not reported
Date Record Meets Archive Criteria: Not reported
Remediation ID: R003222
Rank: Not reported
Emergeny Response Date: Not reported
Emergency Cleanup Start: Not reported

GROVER (Continued) U001159274

Referred To DGLS for Investigation:	Not reported
Contractor Performing Clean Up:	Not reported
RBCA NFA:	No
Project Manager:	L
Next Correspondence/Update With Fac:	Not reported
Date Added:	06/30/1995
Date Record Edited:	Not reported
Person Adding Or Editing Record:	Not reported
Facility Sent To State Archive:	Yes
Date Remediation Unit Closed The File:	Not reported
Site Affectd By Funding Level From PSTIF:	No
General Comments:	Not reported

UST:

Facility ID:	ST0012135
Region:	SL
Lat/Long:	38.5707 / -90.65255
Lat/Long (dms):	Not reported
Easting:	788678.599
Northing:	4120926.5
Accuracy Of Geospatial Data:	5
Owner Of Geospatial Data:	Hazardous Waste Program
Amount Of Deviation In Accuracy:	Not reported
Geospatial Data Collected By:	KIRCHNER, M
Geospatial Elevation Method:	Not reported
Geospatial Elevation Refernce Datum:	Not reported
Date Gis Data Collected:	10/31/2011

Tanks:

Owner:

Owner ID:	OW10226
Owner Name:	MO DEPT OF HIGHWAY & TRANSPORTATION
Owner Address:	PO BOX 270, 105 W. CAPITOL AVE
Owner City,St,Zip:	JEFFERSON CITY, MO 65102
Owner County Code:	51
Owner Phone:	5264764
Mail Was Not Deliverable:	Yes
Is Owner Active?:	Yes
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	2007-06-06 00:00:00
Name of Person Editing Record:	PURVIS, K

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	Removed
Meet 98 Update Requirements:	No
Date Tank Installed:	Not reported
Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	No
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported

U001159274

GROVER (Continued)

Tank External Protection: Not reported
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 06/05/1992
Date Tank Permanently Closed/ Removed: 06/05/1992
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: Not reported
Person Adding/Editing Record: Not reported
Date Of NFA Letter: 06/05/1992
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 06/20/1991
Date Of Aprroval Letter: 1992-06-05 00:00:00
Firm Closing Tank: MHTD
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: 1-1000 GAL DIESEL, 1-2000 GAL GAS

Tank Compartment:
Tank Compartment PK: 30092
Tank PK: 30092
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 1000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 1
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Diesel
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1992-06-05 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:
Owner ID: OW10226
Owner Name: MO DEPT OF HIGHWAY & TRANSPORTATION
Owner Address: PO BOX 270, 105 W. CAPITOL AVE
Owner City,St,Zip: JEFFERSON CITY, MO 65102
Owner County Code: 51
Owner Phone: 5264764
Mail Was Not Deliverable: Yes

GROVER (Continued) U001159274

Is Owner Active?:	Yes
Date Registration Received:	Not reported
Date Record Added:	1998-06-30 00:00:00
Date Record Edited:	2007-06-06 00:00:00
Name of Person Editing Record:	PURVIS, K

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	Removed
Meet 98 Update Requirements:	No
Date Tank Installed:	Not reported
Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	No
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Not reported
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	06/05/1992
Date Tank Permanently Closed/ Removed:	06/05/1992
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported
Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995
Date Record Edited:	Not reported
Person Adding/Editing Record:	Not reported
Date Of NFA Letter:	06/05/1992
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	06/20/1991
Date Of Aprroval Letter:	1992-06-05 00:00:00
Firm Closing Tank:	MHTD
Date Closure Report Received:	Not reported
Registration End Date:	Not reported
LockOut Flag:	No
Comments:	1-1000 GAL DIESEL, 1-2000 GAL GAS

Tank Compartment:

Tank Compartment PK:	30093
Tank PK:	30093
Compartment No:	1
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	2000
Pipe Installation Dt:	Not reported
Pipe System:	Not reported
Pipe Material:	1
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Dt:	Not reported

GROVER (Continued) U001159274

Pipe Double Wall:	0
Substance:	Gasoline, Including Blends
Substance Other:	Not reported
Hazardous Substance:	Not reported
Case Number:	Not reported
Mixture:	0
Date of Last Use:	1992-06-05 00:00:00
Spill Protection:	0
Tanks Use:	0

Tank Aug 2011:

Facility Id:	ST0012135
Tank Id:	1
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0012135
Tank Id:	2
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
3 NE 1/4-1/2 0.323 mi. 1708 ft.	LAKE CHESTERFIELD AUTOMOTIVE 16944 MANCHESTER RD GROVER, MO 63040	LUST UST	U000283051 N/A

Relative:
Higher

Actual:
783 ft.

LUST:

Facility ID:	ST0007105
Region:	SL - St. Louis Regional Office
Lat/Long (dms):	Not reported
Spill Number:	Not reported
Release Date:	09/11/1992
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	08/28/1992
Date Cleanup Finished:	10/23/1992
Expedited:	No
Expedited Date:	Not reported
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Reopened Date:	Not reported
Number Of Remediation Monitoring Wells:	0
Active:	No
Date Of NFA Letter From DNR:	Not reported
Date Record Meets Archive Criteria:	Not reported
Remediation ID:	R003419
Rank:	Not reported
Emergeny Response Date:	Not reported
Emergency Cleanup Start:	Not reported
Referred To DGLS for Investigation:	Not reported
Contractor Performing Clean Up:	Not reported
RBCA NFA:	No
Project Manager:	L
Next Correspondence/Update With Fac:	Not reported
Date Added:	06/30/1995
Date Record Edited:	08/17/1999
Person Adding Or Editing Record:	NREQHW-GARRV
Facility Sent To State Archive:	Yes
Date Remediation Unit Closed The File:	Not reported
Site Affectd By Funding Level From PSTIF:	No
General Comments:	Not reported

UST:

Facility ID:	ST0007105
Region:	SL
Lat/Long:	38.5763243 / -90.639724
Lat/Long (dms):	Not reported
Easting:	705606.674
Northing:	4272404.11
Accuracy Of Geospatial Data:	8
Owner Of Geospatial Data:	Hazardous Waste Program
Amount Of Deviation In Accuracy:	100
Geospatial Data Collected By:	ROBERTS, J
Geospatial Elevation Method:	Not reported
Geospatial Elevation Refernce Datum:	Not reported
Date Gis Data Collected:	01/15/2004

Tanks:

Owner:

Owner ID:	OW02521
Owner Name:	MC KINNON MARKETPLACT PARTNERSHIP

LAKE CHESTERFIELD AUTOMOTIVE (Continued) U000283051

Owner Address:	261 WHITE TREE LANE []
Owner City,St,Zip:	BALLWIN, MO 63011
Owner County Code:	Not reported
Owner Phone:	3910360
Mail Was Not Deliverable:	Yes
Is Owner Active?:	No
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	Not reported
Name of Person Editing Record:	Not reported

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	Removed
Meet 98 Update Requirements:	No
Date Tank Installed:	01/01/1970
Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	No
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Unknown
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	11/15/1990
Date Tank Permanently Closed/ Removed:	11/19/1990
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported
Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995
Date Record Edited:	07/23/1999
Person Adding/Editing Record:	NREQHW-FASTT
Date Of NFA Letter:	11/19/1990
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	05/30/1990
Date Of Aprroval Letter:	1990-11-19 00:00:00
Firm Closing Tank:	Not reported
Date Closure Report Received:	1990-10-19 00:00:00
Registration End Date:	Not reported
LockOut Flag:	No
Comments:	SENT TO MS. MCFERREN FOR REVISION

Tank Compartment:

Tank Compartment PK:	17963
Tank PK:	17963
Compartment No:	1
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	200
Pipe Installation Dt:	Not reported

LAKE CHESTERFIELD AUTOMOTIVE (Continued) U000283051

Pipe System:	4
Pipe Material:	0
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Dt:	Not reported
Pipe Double Wall:	0
Substance:	Used Oil
Substance Other:	Not reported
Hazardous Substance:	Not reported
Case Number:	Not reported
Mixture:	0
Date of Last Use:	1990-11-15 00:00:00
Spill Protection:	0
Tanks Use:	0

Owner:

Owner ID:	OW02521
Owner Name:	MC KINNON MARKETPLACT PARTNERSHIP
Owner Address:	251 WHITE TREE LANE []
Owner City,St,Zip:	BALLWIN, MO 63011
Owner County Code:	Not reported
Owner Phone:	3910360
Mail Was Not Deliverable:	Yes
Is Owner Active?:	No
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	Not reported
Name of Person Editing Record:	Not reported

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	Removed
Meet 98 Update Requirements:	No
Date Tank Installed:	01/01/1970
Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	No
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Unknown
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	11/15/1990
Date Tank Permanently Closed/ Removed:	11/19/1990
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported
Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995

LAKE CHESTERFIELD AUTOMOTIVE (Continued) U000283051

Date Record Edited:	07/23/1999
Person Adding/Editing Record:	NREQHW-FASTT
Date Of NFA Letter:	11/19/1990
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	05/30/1990
Date Of Aprroval Letter:	1990-11-19 00:00:00
Firm Closing Tank:	Not reported
Date Closure Report Received:	1990-10-19 00:00:00
Registration End Date:	Not reported
LockOut Flag:	No
Comments:	SENT TO MS. MCFERREN FOR REVISION

Tank Compartment:

Tank Compartment PK:	17964
Tank PK:	17964
Compartment No:	1
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	1000
Pipe Installation Dt:	Not reported
Pipe System:	4
Pipe Material:	0
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Dt:	Not reported
Pipe Double Wall:	0
Substance:	Used Oil
Substance Other:	Not reported
Hazardous Substance:	Not reported
Case Number:	Not reported
Mixture:	0
Date of Last Use:	1990-11-15 00:00:00
Spill Protection:	0
Tanks Use:	0

Owner:

Owner ID:	OW02521
Owner Name:	MC KINNON MARKETPLACT PARTNERSHIP
Owner Address:	251 WHITE TREE LANE []
Owner City,St,Zip:	BALLWIN, MO 63011
Owner County Code:	Not reported
Owner Phone:	3910360
Mail Was Not Deliverable:	Yes
Is Owner Active?:	No
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	Not reported
Name of Person Editing Record:	Not reported

Tank ID:	3
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	Removed
Meet 98 Update Requirements:	No
Date Tank Installed:	01/01/1970

LAKE CHESTERFIELD AUTOMOTIVE (Continued) U000283051

Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	No
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Unknown
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	11/15/1990
Date Tank Permanently Closed/ Removed:	11/19/1990
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported
Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995
Date Record Edited:	07/23/1999
Person Adding/Editing Record:	NREQHW-FASTT
Date Of NFA Letter:	11/19/1990
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	05/30/1990
Date Of Aprroval Letter:	1990-11-19 00:00:00
Firm Closing Tank:	Not reported
Date Closure Report Received:	1990-10-19 00:00:00
Registration End Date:	Not reported
LockOut Flag:	No
Comments:	SENT TO MS. MCFERREN FOR REVISION

Tank Compartment:

Tank Compartment PK:	17965
Tank PK:	17965
Compartment No:	1
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	500
Pipe Installation Dt:	Not reported
Pipe System:	Not reported
Pipe Material:	0
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Dt:	Not reported
Pipe Double Wall:	0
Substance:	Kerosene
Substance Other:	Not reported
Hazardous Substance:	Not reported
Case Number:	Not reported
Mixture:	0
Date of Last Use:	1990-11-15 00:00:00
Spill Protection:	0
Tanks Use:	0

Owner:

LAKE CHESTERFIELD AUTOMOTIVE (Continued) U000283051

Owner ID: OW02521
Owner Name: MC KINNON MARKETPLACT PARTNERSHIP
Owner Address: 251 WHITE TREE LANE []
Owner City,St,Zip: BALLWIN, MO 63011
Owner County Code: Not reported
Owner Phone: 3910360
Mail Was Not Deliverable: Yes
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: Not reported
Name of Person Editing Record: Not reported

Tank ID: 4
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 01/01/1976
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 10/27/1992
Date Tank Permanently Closed/ Removed: 10/27/1992
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 07/23/1999
Person Adding/Editing Record: NREQHW-FASTT
Date Of NFA Letter: 10/27/1992
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 10/26/1992
Date Of Aprroval Letter: 1992-10-27 00:00:00
Firm Closing Tank: Not reported
Date Closure Report Received: 1992-09-17 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: 1-1000 GAL GAS

Tank Compartment:
Tank Compartment PK: 17966
Tank PK: 17966
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported

LAKE CHESTERFIELD AUTOMOTIVE (Continued) U000283051

Capacity:	500
Pipe Installation Dt:	Not reported
Pipe System:	Not reported
Pipe Material:	Not reported
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Dt:	Not reported
Pipe Double Wall:	0
Substance:	Gasoline, Including Blends
Substance Other:	Not reported
Hazardous Substance:	Not reported
Case Number:	Not reported
Mixture:	0
Date of Last Use:	1992-10-27 00:00:00
Spill Protection:	0
Tanks Use:	0

Tank Aug 2011:

Facility Id:	ST0007105
Tank Id:	1
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0007105
Tank Id:	2
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0007105
Tank Id:	3

LAKE CHESTERFIELD AUTOMOTIVE (Continued) U000283051

Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0007105
Tank Id:	4
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 70

Source: EPA
Telephone: N/A
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites
A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 70

Source: EPA
Telephone: N/A
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens
Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 70

Source: EPA
Telephone: N/A
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/02/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/07/2013
Number of Days to Update: 40

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing
A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/11/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 11/02/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/07/2013
Number of Days to Update: 40

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/19/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 132

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/11/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 12/04/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/11/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 12/04/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/11/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 12/04/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/11/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 12/04/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 32300
Fmtop: 45
Fmbot: 80
Formation : BURLINGTON LIMESTONE
Primlith: LIMESTONE
Seclith: CHERT Minlith: DOLOMITE
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 35100
Fmtop: 80
Fmbot: 90
Formation : DEVONIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 35200
Fmtop: 80
Fmbot: 90
Formation : UPPER DEVONIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 35900
Fmtop: 80
Fmbot: 90
Formation : SULPHUR SPRINGS GROUP
Primlith: SANDSTONE
Seclith: Not Reported Minlith: LIMESTONE
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 36000
Fmtop: 80
Fmbot: 90
Formation : BUSHBERG SANDSTONE
Primlith: SANDSTONE
Seclith: Not Reported Minlith: LIMESTONE
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 39000
Fmtop: 90
Fmbot: 450
Formation : ORDOVICIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 40100
Fmtop: 90
Fmbot: 450
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 40100
Fmtop: 90
Fmbot: 450
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List
A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/18/2012
Date Data Arrived at EDR: 07/24/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/18/2012
Date Data Arrived at EDR: 07/24/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/15/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/02/2012
Date Data Arrived at EDR: 04/03/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 72

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites
State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 06/07/2012
Date Made Active in Reports: 07/18/2012
Number of Days to Update: 41

Source: Department of Natural Resources
Telephone: 573-751-1990
Last EDR Contact: 12/03/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HWS DETAIL: Registry Annual Report
Each site is described in detail in this annual report and includeds the following information: a general description of the site; a summary of any significant environmental problems at and near the site; a summary of any serious health problems in the immediate vicinity of the site; the status of any testing, monitoring or remedial actions in progress or recommended by the department.

Date of Government Version: 06/30/2011
Date Data Arrived at EDR: 03/16/2012
Date Made Active in Reports: 04/11/2012
Number of Days to Update: 26

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 07/02/5007
Data Release Frequency: Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facility List
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/10/2013
Date Data Arrived at EDR: 01/11/2013
Date Made Active in Reports: 01/18/2013
Number of Days to Update: 7

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 11/15/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 12/04/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/24/2013
Number of Days to Update: 37

Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 11/30/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Semi-Annually

LAST: Leaking Aboveground Storage Tanks
A listing of leaking aboveground storage tanks.

Date of Government Version: 12/04/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/24/2013
Number of Days to Update: 37

Source: Department of Natural Resources
Telephone: 573-751-6822
Last EDR Contact: 11/30/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Petroleum Storage Tanks
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 12/04/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/22/2013
Number of Days to Update: 35

Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 11/30/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AST: Aboveground Petroleum Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 01/24/2013
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 14

Source: Department of Agriculture
Telephone: 573-751-7062
Last EDR Contact: 01/02/2013
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Sites with Controls
Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 10/25/2012
Date Data Arrived at EDR: 11/19/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 59

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 11/19/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Sites Participating in the Voluntary Cleanup Program
Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 10/25/2012
Date Data Arrived at EDR: 11/19/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 59

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 11/19/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List
Brownfields are sites where redevelopment and reuse is hampered by known or suspected contamination with hazardous substances. While many brownfield sites are minimally contaminated, potential environmental liability can be a problem for owners, operators, prospective buyers and financial institutions. Because of the large number of these sites, their economic impact especially in heavily industrial areas is substantial.

Date of Government Version: 10/25/2012
Date Data Arrived at EDR: 11/19/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 59

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 11/19/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST LF: Solid Waste Facility Database List
This database contains detailed information per site. It is no longer maintained by the Department of Natural Resources. For current information on solid waste facilities/landfills see the SWF/LF database.

Date of Government Version: 04/12/2005
Date Data Arrived at EDR: 07/19/2006
Date Made Active in Reports: 08/18/2006
Number of Days to Update: 30

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: No Update Planned

SWRCY: Solid Waste Recycling Facilities
A listing of recycling center locations.

Date of Government Version: 11/05/2009
Date Data Arrived at EDR: 12/23/2009
Date Made Active in Reports: 01/21/2010
Number of Days to Update: 29

Source: Department of Natural Resources
Telephone: 573-526-3944
Last EDR Contact: 12/07/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/11/2012
Date Data Arrived at EDR: 09/12/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 54

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 12/03/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: Quarterly

DEL SHWS: Registry Sites Withdrawn or Deleted
A list of sites that were removed from the Registry or for which Registry action was suspended due to cleanup.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 06/07/2012
Date Made Active in Reports: 07/18/2012
Number of Days to Update: 41

Source: Department of Natural Resources
Telephone: 573-522-3710
Last EDR Contact: 12/03/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CDL: Environmental Emergency Response System
Incidents reported to the Department of Natural Resources where drug lab materials were involved.

Date of Government Version: 11/30/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/18/2013
Number of Days to Update: 31

Source: Department of Natural Resources
Telephone: 573-751-3443
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/01/2012
Date Data Arrived at EDR: 04/03/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 72

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

SPILLS: Environmental Response Tracking Database
Releases of hazardous substances reported to the department's Environmental Emergency Response (EER) section.

Date of Government Version: 11/30/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/18/2013
Number of Days to Update: 31

Source: Department of Natural Resources
Telephone: 573-526-3349
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/11/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 12/04/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/19/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 62

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

ROD: Records Of Decision
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012
Date Data Arrived at EDR: 03/14/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/28/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/05/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/28/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/09/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (913) 551-7003
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/30/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Biennially

UIC: Underground Injection Wells Database
A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/29/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: 573-368-2183
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

DRYCLEANERS: Drycleaners in Missouri Listing
A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 31

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 12/12/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Varies

RRC: Certified Hazardous Waste Resource Recovery Facilities
Facilities that take hazardous waste material, either from on-site or off-site, and make it re-usable.

Date of Government Version: 12/11/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 31

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 12/13/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Semi-Annually

NPDES: Permitted Facility Listing
A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 10/10/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 11/14/2012
Number of Days to Update: 34

Source: Department of Natural Resources
Telephone: 573-751-7023
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

AIRS: Permit Facility Listing
A listing of Air Pollution Control Program permits.

Date of Government Version: 12/17/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/18/2013
Number of Days to Update: 31

Source: Department of Natural Resources
Telephone: 573-751-4817
Last EDR Contact: 12/12/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/16/2012
Next Scheduled EDR Contact: 11/26/2012
Data Release Frequency: Varies

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 32

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: N/A

MINES: Industrial Mineral Mines Database
This data set contains names, locations and additional data for active Industrial Mineral Mines permitted with the Missouri Department of Natural Resources, Division of Environmental Quality, Land Reclamation Program. Industrial Mineral Mines permitted are rock quarries, clay pits, sand and gravel pits, or in-stream sand and gravel operations.

Date of Government Version: 10/24/2008
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 12/21/2012
Number of Days to Update: 4

Source: Department of Natural Resources
Telephone: 573-751-4041
Last EDR Contact: 12/17/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 37

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites
A listing of power plants with coal ash ponds.

Date of Government Version: 10/09/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 11/14/2012
Number of Days to Update: 34

Source: Department of Natural Resources
Telephone: 573-526-1825
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 01/18/2012
Date Data Arrived at EDR: 01/27/2012
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 01/18/2012
Date Data Arrived at EDR: 01/27/2012
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/20/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/16/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information.

Date of Government Version: 12/27/0012
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/18/2013
Number of Days to Update: 16

Source: Department of Natural Resources
Telephone: 573-751-3553
Last EDR Contact: 12/21/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/19/2012
Date Made Active in Reports: 01/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/19/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/01/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 12/11/2012
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/13/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Child Care Facilities
Source: Department of Health & Senior Services
Telephone: 573-751-2450

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

STONE MILL
CENTER AVE
GROVER, MO 63040

TARGET PROPERTY COORDINATES

Latitude (North):	38.5732 - 38° 34' 23.52"
Longitude (West):	90.6408 - 90° 38' 26.88"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	705527.1
UTM Y (Meters):	4271848.0
Elevation:	780 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38090-E6 EUREKA, MO
Most Recent Revision:	1993
East Map:	38090-E5 MANCHESTER, MO
Most Recent Revision:	1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

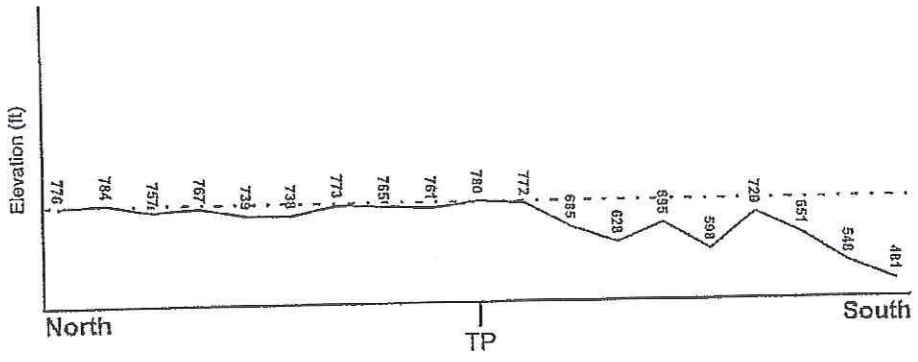
TOPOGRAPHIC INFORMATION

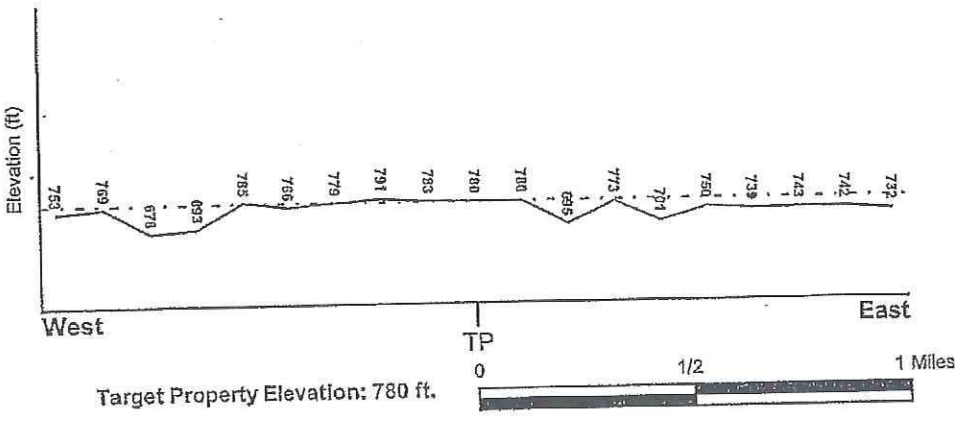
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
ST LOUIS, MO	YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	29189C0235H - FEMA Q3 Flood data
Additional Panels in search area:	29189C0253H - FEMA Q3 Flood data 29189C0245H - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
EUREKA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

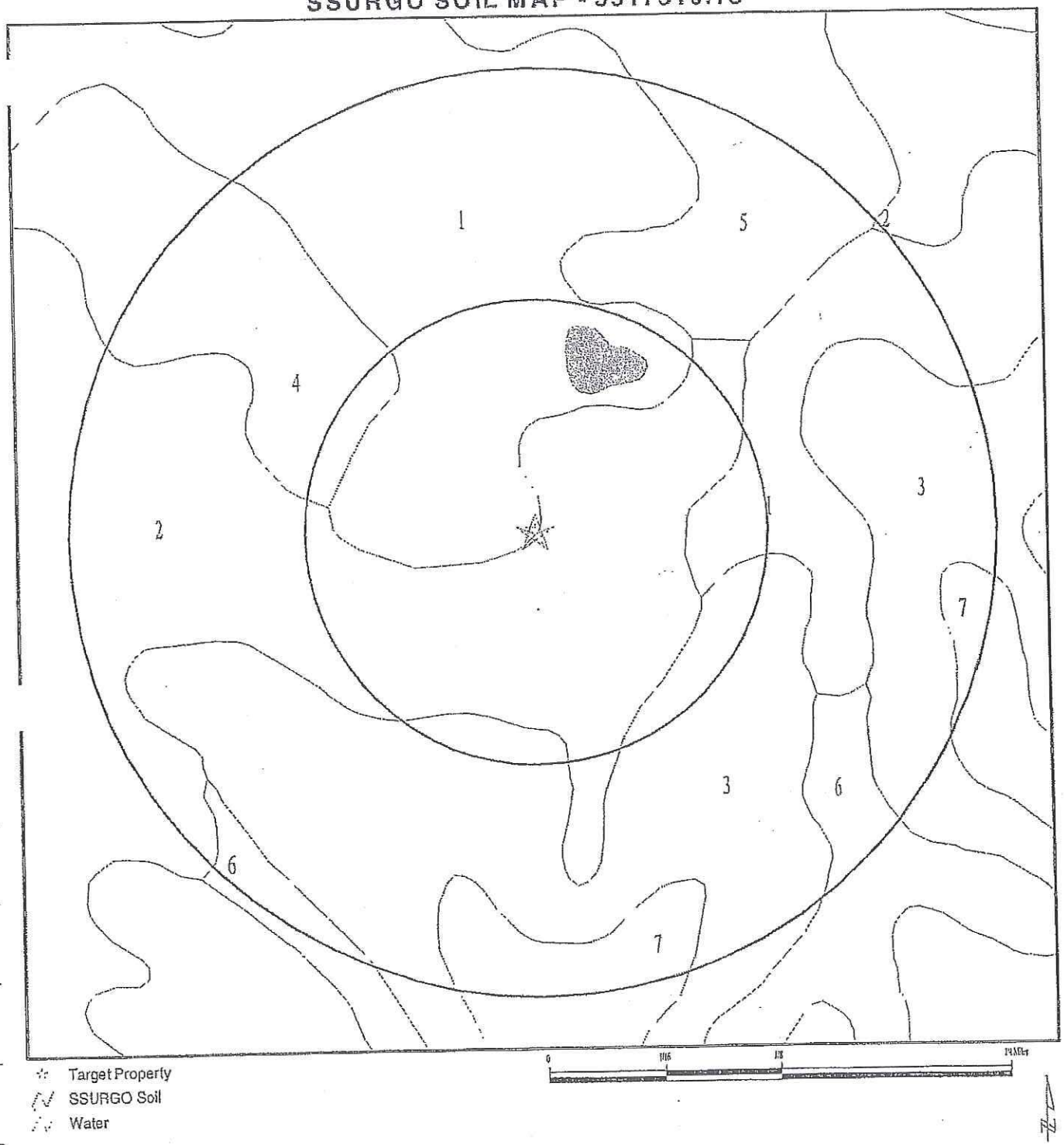
Era:	Paleozoic
System:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3517510.1s



☆ Target Property
SSURGO Soil
Water

SITE NAME: Stone Mill ADDRESS: Center Ave Grover MO 63040 LAT/LONG: 38.5732 / 90.6408	CLIENT: SCI Engineering, Inc. CONTACT: Ben Butterfield INQUIRY #: 3517510.1s DATE: February 12, 2013 2:21 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Winfield

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 99 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	9 inches	16 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
3	16 inches	48 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
4	48 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1

Soil Map ID: 2

Soil Component Name: Winfield

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 99 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	9 inches	16 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
3	16 inches	48 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
4	48 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1

Soil Map ID: 3

Soil Component Name: Goss

Soil Surface Texture: gravelly silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	gravelly silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	16 inches	27 inches	very gravelly silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 4.5
3	27 inches	55 inches	extremely gravelly silty clay	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 4.5
4	55 inches	59 inches	silty clay	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 4.5

Soil Map ID: 4

Soil Component Name: Winfield

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 99 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	9 inches	16 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
3	16 inches	48 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
4	48 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: Iva

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	12 inches	55 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6
3	55 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6

Soil Map ID: 6

Soil Component Name: Goss

Soil Surface Texture: gravelly silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	gravelly silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 4.5
2	16 inches	27 inches	very gravelly silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 4.5
3	27 inches	55 inches	extremely gravelly silty clay	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 4.5
4	55 inches	59 inches	silty clay	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 4.5

Soil Map ID: 7

Soil Component Name: Gasconade

Soil Surface Texture: flaggy silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 48 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	flaggy silty clay loam	Not reported	Not reported	Max: 0.11 Min: 0	Max: Min:
2	9 inches	16 inches	very flaggy silty clay	Not reported	Not reported	Max: 0.11 Min: 0	Max: Min:
3	16 inches	20 inches	bedrock	Not reported	Not reported	Max: 0.11 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS2484996	1/8 - 1/4 Mile NNW
A3	USGS2484993	1/4 - 1/2 Mile WNW
6	USGS2484989	1/2 - 1 Mile West
9	USGS2484956	1/2 - 1 Mile SW
B10	USGS2484858	1/2 - 1 Mile North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

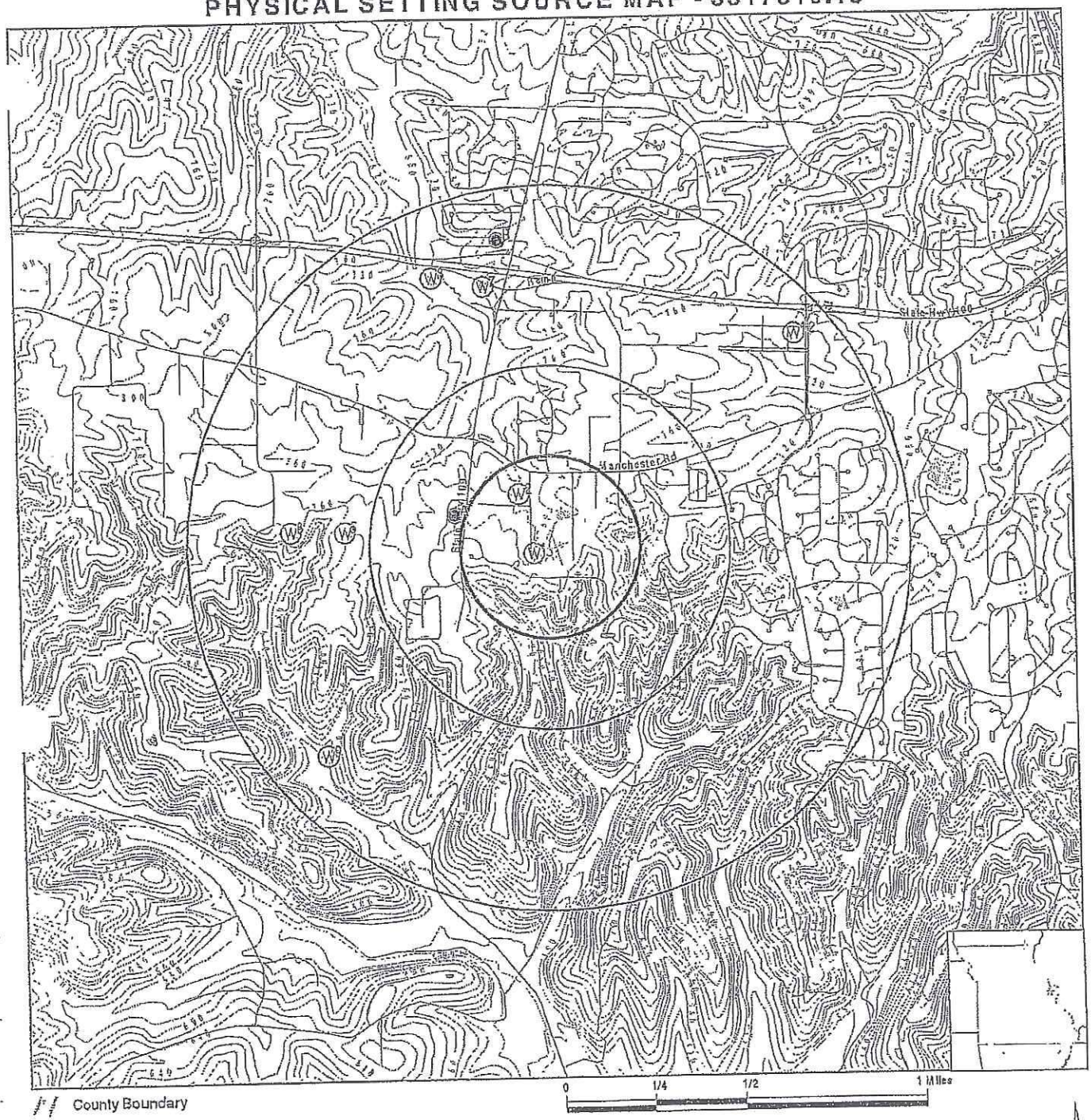
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	MOLOG1000017704	0 - 1/8 Mile WSW
A4	MOLOG1000017719	1/4 - 1/2 Mile WNW
5	MOLOG1000017717	1/2 - 1 Mile West
7	MO6000000004831	1/2 - 1 Mile NNW
8	MO6000000004833	1/2 - 1 Mile NNW
B11	MOLOG1000017844	1/2 - 1 Mile North
12	MOLOG1000017799	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 3517510.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells

TE NAME: Stone Mill	CLIENT: SCI Engineering, Inc.
ADDRESS: Center Ave	CONTACT: Ben Butterfield
Grover MO 63040	INQUIRY #: 3517510.1s
LAT/LONG: 38.5732 / 90.6408	DATE: February 12, 2013 2:21 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
1 WSW 0 - 1/8 Mile Lower		MO WELLS	MOLOG1000017704

Id:	022358	Located:	Y
Notenough:	Not Reported	Scale:	24k
Locator:	Michael Lemon - Interpolated	Stname:	MISSOURI
Stabbrev:	MO	County:	ST. LOUIS
Utm x:	705456.21895		
Utm y:	4271819.03073		
Latitude:	38.57296		
Longitude:	-90.64162		
Qtr3:	NE	Qtr2:	NE
Qtr1:	NE		
Section:	11		
Tnsp:	44		
Tnspdir:	Not Reported		
Rng:	3		
Rngdir:	E		
Plssx:	704657		
Plssy:	4271356		
Location p:	146		
Elev:	767		
Idnum:	22358		
Swl:	275		
Quadrangle:	EUREKA	Site Id:	MOLOG1000017704

Header Information:			
Id:	022358	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	ST. LOUIS
Fips:	189	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	NE
Qtr2:	NE	Qtr1:	NE
Section:	11	Tnsp:	44
Tnspdir:	N	Rng:	03
Rngdir:	E		
Latitude:	38.57296		
Longitude:	-90.64162		
Utm x:	705456.21895		
Utm y:	4271819.03073		
Quadmap na:	EUREKA	Ohio code:	38090E6
Llmeas:	D	Scale:	24k
Locator:	Interpolated	Typelog1:	S
Typelog2:	Not Reported	Typelog3:	Not Reported
Ownerind:	0	Owner:	Boyer, Joe
Leasenam:	Not Reported	Driller:	Shepard Well Drlg Co
Drldate:	1963/09/18	Permit:	Not Reported
Logdate:	1964/03/31	Logger:	Wells, J.
Elev:	767		
Elevbase:	S	Prodyld:	12
Gpmcfs:	G		
Depthbed:	75		
Sampsav:	0	Swla:	275
Swlb:	Not Reported		
Water at:	300'		
Toldepth:	505	Formation :	FERN GLEN FORMATION
Formation1:	ST. PETER SANDSTONE		
Intrdtp:	0		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Infordbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reldate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	Not Reported
Alagncy1:	Not Reported	Add databa:	Not Reported
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	N
Remarks:	GROVER		
C total:	117	C plugind:	N
C remarks:	Not Reported		

Construction Information:			
Id:	022358	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	196309
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	76		
Cas1diam:	6.25		
Cas2dpth:	41		
Cas2diam:	5		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	O	Typgrt1:	Not Reported
Typgrt2:	Not Reported	Typgrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	N		
Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubepres:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	KIMMSWICK LIMESTONE
Formation1:	ST. PETER SANDSTONE		

Strata Information:			
Id:	022358	Stratordr:	0
Fmtop:	0		
Fmbot:	75		
Formation :	NO SAMPLES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 022358 Stratordr: 0
Fmtop: 115
Fmbot: 505
Formation : MIDDLE ORDOVICIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 022358 Stratordr: 28400
Fmtop: 75
Fmbot: 110
Formation : MISSISSIPPIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 022358 Stratordr: 31800
Fmtop: 75
Fmbot: 110
Formation : OSAGEAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 022358 Stratordr: 33400
Fmtop: 75
Fmbot: 110
Formation : FERN GLEN FORMATION
Primlith: LIMESTONE
Seclith: CHERT Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 022358 Stratordr: 35100
Fmtop: 110
Fmbot: 115
Formation : DEVONIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 022358 Stratordr: 35200
Fmtop: 110
Fmbot: 115
Formation : UPPER DEVONIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 022358 Stratordr: 35900
Fmtop: 110
Fmbot: 115
Formation : SULPHUR SPRINGS GROUP
Primlith: SAND
Seclith: LIMESTONE Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 022358 Stratordr: 39000
Fmtop: 115
Fmbot: 505
Formation : ORDOVICIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 022358
Fmtop: 115
Fmbot: 505
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 40100
Minlith: Not Reported

Strata Information:
Id: 022358
Fmtop: 115
Fmbot: 505
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 40100
Minlith: Not Reported

Strata Information:
Id: 022358
Fmtop: 115
Fmbot: 505
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 40100
Minlith: Not Reported

Strata Information:
Id: 022358
Fmtop: 115
Fmbot: 200
Formation : KIMMSWICK LIMESTONE
Primlith: LIMESTONE
Seclith: CHERT
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Stratordr: 40200
Minlith: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc:	0
Rmk20:	Not Reported

Strata Information:

Id:	022358	Stratordr:	40300
Fmtop:	200		
Fmbot:	220		
Formation :	DECORAH GROUP		
Primlith:	LIMESTONE		
Seclith:	SHALE	Minlith:	DOLOMITE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	022358	Stratordr:	41000
Fmtop:	220		
Fmbot:	350		
Formation :	PLATTIN GROUP		
Primlith:	LIMESTONE		
Seclith:	DOLOMITE	Minlith:	CHERT
Primmin:	ZnS		
Primocc:	3		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	022358	Stratordr:	41900
Fmtop:	340		
Fmbot:	350		
Formation :	BLOOMSDALE LIMESTONE		
Primlith:	LIMESTONE		
Seclith:	SHALE	Minlith:	DOLOMITE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	022358	Stratordr:	42300
Fmtop:	350		
Fmbot:	420		
Formation :	"ROCK LEVEE FORMATION"		
Primlith:	DOLOMITE		
Seclith:	SHALE	Minlith:	Not Reported
Primmin:	ZnS		
Primocc:	4		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 022358
Fmtop: 350
Fmbot: 470
Formation : JOACHIM DOLOMITE
Primlith: DOLOMITE
Seclith: SAND
Primmin: ZnS
Primocc: 4
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 42800
Minlith: SHALE

Strata Information:
Id: 022358
Fmtop: 470
Fmbot: 505
Formation : ST. PETER SANDSTONE
Primlith: SANDSTONE
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 43900
Minlith: Not Reported

Strata Information:
Id: 022358
Fmtop: 505
Fmbot: 505
Formation : TOTAL DEPTH
Primlith: Not Reported
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 99900
Minlith: Not Reported

2
NNW
1/8 - 1/4 Mile
Lower

FED USGS USGS2484996

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	383431090383201
Site name:	T44N R03E 11AAA1		
Latitude:	383431	EDR Site id:	USGS2484996
Longitude:	0903832	Dec lat:	38.57533105
Dec lon:	-90.64234848	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	189
Country:	US	Land net:	Not Reported
Location map:	EUREKA	Map scale:	24000
Altitude:	757.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri. Missouri. Area = 1590 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19630000
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	ST PETER SANDSTONE		
Well depth:	505	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1963-09-01	Ground water data end date:	1963-09-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1963-09-01	275	

A3
WNW
1/4 - 1/2 Mile
Higher

FED USGS USGS2484993

Agency cd:	USGS	Site no:	383429090384301
Site name:	T44N R03E 11AAB1		
Latitude:	383429	EDR Site id:	USGS2484993
Longitude:	0903843	Dec lat:	38.57477549
Dec lon:	-90.64540414	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	189
Country:	US	Land net:	Not Reported
Location map:	EUREKA	Map scale:	24000
Altitude:	779.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri. Missouri. Area = 1590 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19640000
Date inventoried:	Not Reported	Mean greenwich time offset:	CST

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	ST PETER SANDSTONE		
Well depth:	480	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1964-09-01	Ground water data end date:	1964-09-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1964-09-01	330	

A4 MO WELLS MOLOG1000017719
WNW
1/4 - 1/2 Mile
Lower

Id:	023183	Located:	Y
Notenough:	Not Reported	Scale:	24k
Locator:	Michael Lemon - Interpolated	Sname:	MISSOURI
Stabbrev:	MO	County:	ST. LOUIS
Utm x:	705077.62484		
Utm y:	4271953.9685		
Latitude:	38.57426		
Longitude:	-90.64592		
Qtr3:	NW	Qtr2:	NE
Qtr1:	NE		
Section:	11		
Tnsp:	44		
Tnspdir:	Not Reported		
Rng:	3		
Rngdir:	E		
Plssx:	704657		
Plssy:	4271356		
Location p:	146		
Elev:	775		
Idnum:	23183		
Swl:	330		
Quadrangle:	EUREKA	Site id:	MOLOG1000017719

Header Information:			
Id:	023183	Well type:	Noncommunity Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	ST. LOUIS
Fips:	189	Sname:	MISSOURI
Stabbrev:	MO	Qtr3:	NW
Qtr2:	NE	Qtr1:	NE
Section:	11	Tnsp:	44
Tnspdir:	N	Rng:	03
Rngdir:	E		
Latitude:	38.57426		
Longitude:	-90.64592		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Utm x:	705077.62484		
Utm y:	4271953.9685		
Quadmap na:	EUREKA	Ohio code:	38090E6
Llmeas:	D	Scale:	24k
Locator:	Interpolated	Typelog1:	S
Typelog2:	Not Reported	Typelog3:	Not Reported
Ownerind:	1	Owner:	Wright Family
Leasenam:	Not Reported	Driller:	Shepard Well Drlg
Dridate:	1964/09/22	Permit:	Not Reported
Logdate:	1965/03/03	Logger:	Groves, H.M.
Elev:	775	Prodyld:	15
Elevbase:	S		
Gpmcfs:	G		
Depthbed:	45	Swla:	330
Sampsav:	0		
Swlb:	Not Reported		
Water at:	360'	Formation :	KEOKUK-BURLINGTON-FERN GLEN
Totdepth:	480		
Formation1:	ST. PETER SANDSTONE		
Interdtp:	0		
Interdbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reldate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	Not Reported
Alagncy1:	Not Reported	Add databa:	Not Reported
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	N
Remarks:	WRIGHT STORE NEAR JCT HWYS 100 & 109		
C total:	87	C plugind:	N
C remarks:	Not Reported		

Construction Information:

Id:	023183	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	196409
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	87		
Cas1diam:	6.25		
Cas2dpth:	0		
Cas2diam:	0		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	O	Typgrt1:	Not Reported
Typgrt2:	Not Reported	Typgrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	N		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Szcashol:	0		
Szbelcas:	0		
Slzscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintf:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubepres:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	KEOKUK-BURLINGTON-FERN GLEN
Formation1:	ST. PETER SANDSTONE		

Strata Information:			
Id:	023183	Stratordr:	0
Fmtop:	130		
Fmbot:	480		
Formation :	MIDDLE ORDOVICIAN SERIES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:			
Id:	023183	Stratordr:	0
Fmtop:	0		
Fmbot:	45		
Formation :	NO SAMPLES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:			
Id:	023183	Stratordr:	28400
Fmtop:	45		
Fmbot:	115		
Formation :	MISSISSIPPIAN SYSTEM		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 31800
Fmtop: 45
Fmbot: 115
Formation : OSAGEAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 32200
Fmtop: 45
Fmbot: 115
Formation : KEOKUK-BURLINGTON-FERN GLEN
Primlith: LIMESTONE
Seclith: CHERT Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 35100
Fmtop: 115
Fmbot: 130
Formation : DEVONIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 35200
Fmtop: 115
Fmbot: 130
Formation : UPPER DEVONIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 35900
Fmtop: 115
Fmbot: 130
Formation : SULPHUR SPRINGS GROUP
Primlith: LIMESTONE
Seclith: SAND Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 39000
Fmtop: 130
Fmbot: 480
Formation : ORDOVICIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 40100
Fmtop: 130
Fmbot: 480
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 40100
Fmtop: 130
Fmbot: 480
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 40100
Fmtop: 130
Fmbot: 480
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 40200
Fmtop: 130
Fmbot: 205
Formation : KIMMSWICK LIMESTONE
Primlith: LIMESTONE
Seclith: DOLOMITE Minlith: CHERT
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 40300
Fmtop: 205
Fmbot: 220
Formation : DECORAH GROUP
Primlith: LIMESTONE
Seclith: SHALE Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 41000
Fmtop: 220
Fmbot: 350
Formation : PLATTIN GROUP
Primlith: DOLOMITE
Seclith: LIMESTONE Minlith: SHALE
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 42100
Fmtop: 340
Fmbot: 350
Formation : BRICKEYS MEMBER
Primlith: LIMESTONE
Seclith: DOLOMITE Minlith: SHALE
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 42800
Fmtop: 350
Fmbot: 470
Formation : JOACHIM DOLOMITE
Primlith: DOLOMITE
Seclith: SAND Minlith: SHALE
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 43900
Fmtop: 470
Fmbot: 480
Formation : ST. PETER SANDSTONE
Primlith: SANDSTONE
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 023183 Stratordr: 99900
Fmtop: 480
Fmbot: 480
Formation : TOTAL DEPTH
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc:	0
Rmk20:	Not Reported

5
West
1/2 - 1 Mile
Lower

MO WELLS MOLOG1000017717

Id:	006299	Located:	Y
Notenough:	Not Reported	Scale:	24k
Locator:	Michael Lemon - Interpolated	Stname:	MISSOURI
Stabbrev:	MO	County:	ST. LOUIS
Utm x:	704612.56261		
Utm y:	4271902.75006		
Latitude:	38.5739		
Longitude:	-90.65127		
Qtr3:	SE	Qtr2:	NE
Qtr1:	NW		
Section:	11		
Tnsp:	44		
Tnspdir:	Not Reported		
Rng:	3		
Rngdir:	E		
Plssx:	704657		
Plssy:	4271356		
Location p:	146		
Elev:	776		
Idnum:	6299		
Swl:	200		
Quadrangle:	EUREKA	Site id:	MOLOG1000017717

Header Information:

Id:	006299	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	ST. LOUIS
Fips:	189	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	SE
Qtr2:	NE	Qtr1:	NW
Section:	11	Tnsp:	44
Tnspdir:	N	Rng:	03
Rngdir:	E		
Latitude:	38.5739		
Longitude:	-90.65127		
Utm x:	704612.56261		
Utm y:	4271902.75006		
Quadmap na:	EUREKA	Ohio code:	38090E6
Lmeas:	D	Scale:	24k
Locator:	Interpolated	Typelog1:	S
Typelog2:	Not Reported	Typelog3:	Not Reported
Ownerind:	0	Owner:	Benedick, Fred
Leasenam:	Not Reported	Driller:	Clark Brothers
Drldate:	1940/06/	Permit:	Not Reported
Logdate:	1940/09/11	Logger:	Hundhausen
Elev:	776	Prodyld:	15
Elevbase:	S		
Gpmcfs:	G		
Depthbed:	45	Swla:	200
Sampsav:	0		
Swlb:	Not Reported		
Water at:	Not Reported	Formation :	FERN GLEN FORMATION
Totdepth:	450		
Formation1:	ST. PETER SANDSTONE		
Intcrdtp:	0		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Interdbt:	0		
Drawdown:	125	Aquclass:	Not Reported
Confind:	0	Reldate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	Not Reported
Alagncy1:	Not Reported	Add databa:	Not Reported
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	N
Remarks:	ON CHRISTY AVE, IN POND, 0.5 MI S OF HWY 50		
C total:	45	C plugind:	N
C remarks:	Not Reported		

Construction Information:

Id:	006299	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	194006
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	45		
Cas1diam:	6.25		
Cas2dpth:	0		
Cas2diam:	0		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	O	Typgrt1:	Not Reported
Typgrt2:	Not Reported	Typgrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	N		
Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumpldh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubepres:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	FERN GLEN FORMATION
Formation1:	ST. PETER SANDSTONE		

Strata Information:

Id:	006299	Stratordr:	0
Fmtop:	0		
Fmbot:	45		
Formation :	NO SAMPLES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 0
Fmtop: 90
Fmbot: 450
Formation : MIDDLE ORDOVICIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 28400
Fmtop: 45
Fmbot: 80
Formation : MISSISSIPPIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 31800
Fmtop: 45
Fmbot: 80
Formation : OSAGEAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 32300
Fmtop: 45
Fmbot: 80
Formation : BURLINGTON LIMESTONE
Primlith: LIMESTONE
Seclith: CHERT Minlith: DOLOMITE
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299
Fmtop: 90
Fmbot: 450
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 40100
Minlith: Not Reported

Strata Information:
Id: 006299
Fmtop: 90
Fmbot: 160
Formation : KIMMSWICK LIMESTONE
Primlith: LIMESTONE
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 40200
Minlith: CHERT

Strata Information:
Id: 006299
Fmtop: 160
Fmbot: 180
Formation : DECORAH GROUP
Primlith: LIMESTONE
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 40300
Minlith: SHALE

Strata Information:
Id: 006299
Fmtop: 180
Fmbot: 315
Formation : PLATTIN GROUP
Primlith: LIMESTONE
Seclith: CHERT
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Stratordr: 41000
Minlith: SHALE

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 42100
Fmtop: 300
Fmbot: 315
Formation : BRICKEYS MEMBER
Primlith: LIMESTONE
Seclith: SHALE Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 42800
Fmtop: 315
Fmbot: 430
Formation : JOACHIM DOLOMITE
Primlith: DOLOMITE
Seclith: SAND Minlith: LIMESTONE
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 43900
Fmtop: 430
Fmbot: 450
Formation : ST. PETER SANDSTONE
Primlith: SANDSTONE
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 006299 Stratordr: 99900
Fmtop: 450
Fmbot: 450
Formation : TOTAL DEPTH
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc: 0
Rmk20: Not Reported

6
West
1/2 - 1 Mile
Lower

FED USGS USGS2484989

Agency cd:	USGS	Site no:	383426090391401
Site name:	T44N R03E 11BAC1		
Latitude:	383426	EDR Site id:	USGS2484989
Longitude:	0903914	Dec lat:	38.57394214
Dec lon:	-90.65401556	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	189
Country:	US	Land net:	Not Reported
Location map:	EUREKA	Map scale:	24000
Altitude:	770.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri. Missouri, Area = 1590 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19400000
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	ST PETER SANDSTONE		
Well depth:	450	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1940-06-01	Ground water data end date:	1940-06-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1940-06-01	200	

7
NNW
1/2 - 1 Mile
Lower

MO WELLS MO6000000004831

Objectid:	5747	Uniqueid:	105974
Logid:	Not Reported	Wwimsid:	00236285
Pwssname:	Glaser Commons Shopping Cente	Pwssid:	6182822
Pwssidext:	6182822101	Ipws:	MO6182822
Ipwsext:	MO6182822101	Wellnum:	1
Localname:	Well #1	Wellid:	18010
Factype:	Restaurant	Fed type:	NP
Status:	Proposed		
Ddlat:	38.583667		
Ddlong:	-90.643944		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Mapname:	Eureka	Fips:	29189
County:	St. Louis	Mdnrreg:	St. Louis
Mdnrnum:	6	Drilldate:	2000
Aban:	0	Plug:	0
Material:	Consolidated		
Form cd:	Kimmswick		
Form td:	St. Peter		
Totdepth:	613	Grndelev:	0
Topseal:	Cement Slurry	Botseal:	Cement Slurry
Casedepth:	202	Casesize:	6
Casetype:	Steel		
Topcaseelv:	0		
Caseheight:	0	Outcasedep:	0
Outcasesiz:	0	Scrnlength:	-9999
Scrnsize:	-9999	Staticleve:	296
Yield:	40	Head:	0
Drawdown:	0	Pumptestda:	0
Pumptype:	Not Reported	Pumpmanuf:	Not Reported
Pumpdepth:	504	Pumpcapaci:	40
Meter:	Not Reported	Stdbypwr:	Not Reported
Voc:	Not Reported	Nitrate:	Not Reported
Chlor:	Not Reported	Filter:	Not Reported
Gwudisw:	Not Reported	Stappr:	Not Reported
Surfdrain:	Not Reported	Entry:	Not Reported
Method:	GPS	Accuracy:	12
Locstatus:	Not Verified	Verloc:	N
Lastupdate:	2007/03/21	Tweyrswa:	230
Welldist:	0	Site id:	MO6000000004831

8
NNW
1/2 - 1 Mile
Lower

MO WELLS MO6000000004833

Objectid:	4947	Uniqueid:	104959
Logid:	Not Reported	Wwimsid:	Not Reported
Pwssname:	Wildwood Auto Village	Pwssid:	6182498
Pwssidext:	6182498101	Ipws:	MO6182498
Ipwsext:	MO6182498101	Wellnum:	1
Localname:	Well #1	Wellid:	16130
Factype:	Indus. & Lg Business	Fed type:	NC
Status:	Active		
Ddlat:	38.58403		
Ddlong:	-90.6466		
Mapname:	Eureka	Fips:	29189
County:	St. Louis	Mdnrreg:	St. Louis
Mdnrnum:	6	Drilldate:	0
Aban:	0	Plug:	0
Material:	Consolidated		
Form cd:	Not Reported		
Form td:	Not Reported		
Totdepth:	0	Grndelev:	0
Topseal:	Cement Grout	Botseal:	Cement Grout
Casedepth:	0	Casesize:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casetype:	Steel		
Topcaseelv:	0		
Caseheight:	0	Outcasedep:	0
Outcasesiz:	0	Scrnlength:	-9999
Scrnsize:	-9999	Staticleve:	0
Yield:	0	Head:	0
Drawdown:	0	Pumptestda:	0
Pumptype:	Submersible	Pumpmanuf:	Not Reported
Pumpdepth:	0	Pumpcapaci:	0
Meter:	Y	Stdbypwr:	Not Reported
Voc:	N	Nitrate:	N
Chlor:	Not Reported	Filter:	Not Reported
Gwudisw:	Not Reported	Stappr:	Y
Surfdrain:	Not Reported	Entry:	Not Reported
Method:	PLSS	Accuracy:	0
Locstatus:	Not Verified	Verloc:	N
Lastupdate:	2002/06/18	Tweyrswa:	300
Welldist:	0	Site id:	MO6000000004833

9
SW
1/2 - 1 Mile
Lower

FED USGS USGS2484956

Agency cd:	USGS	Site no:	383354090390801
Site name:	T44N R03E 11CDA1		
Latitude:	383354	EDR Site id:	USGS2484956
Longitude:	0903908	Dec lat:	38.5650533
Dec lon:	-90.65234894	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	189
Country:	US	Land net:	Not Reported
Location map:	EUREKA	Map scale:	24000
Altitude:	570.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri. Missouri. Area = 1590 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	ST PETER SANDSTONE		
Well depth:	306	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1941-05-01	Ground water data end date:	1941-05-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1941-05-01	100	

B10
North
1/2 - 1 Mile
Lower

FED USGS USGS2484858

Agency cd:	USGS	Site no:	383507090383501
Site name:	T44N R03E 02ADA1		
Latitude:	383507	EDR Site id:	USGS2484858
Longitude:	0903835	Dec lat:	38.58533099
Dec lon:	-90.64318172	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	189
Country:	US	Land net:	Not Reported
Location map:	EUREKA	Map scale:	24000
Altitude:	751.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri. Missouri. Area = 1590 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19360000
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	ST PETER SANDSTONE		
Well depth:	511	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1936-10-01	Ground water data end date:	1936-10-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1936-10-01	275	

B11
North
1/2 - 1 Mile
Lower

MO WELLS MOLOG1000017844

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Id:	003888	Located:	Y
Notenough:	Not Reported	Scale:	24k
Locator:	Michael Lemon - Interpolated	Stname:	MISSOURI
Stabbrev:	MO	County:	ST. LOUIS
Utm x:	705287.46863		
Utm y:	4273232.56236		
Latitude:	38.58572		
Longitude:	-90.64314		
Qtr3:	NE	Qtr2:	SE
Qtr1:	NE		
Section:	2		
Tnsp:	44		
Tnspdir:	Not Reported		
Rng:	3		
Rngdir:	E		
Plssx:	704647		
Plssy:	4272995		
Location p:	146		
Elev:	751		
Idnum:	3888		
Swl:	275		
Quadrangle:	EUREKA	Site Id:	MOLOG1000017844

Header Information:			
Id:	003888	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	ST. LOUIS
Fips:	189	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	NE
Qtr2:	SE	Qtr1:	NE
Section:	02	Tnsp:	44
Tnspdir:	N	Rng:	03
Rngdir:	E		
Latitude:	38.58572		
Longitude:	-90.64314		
Utm x:	705287.46863		
Utm y:	4273232.56236		
Quadmap na:	EUREKA	Ohio code:	38090E6
Llmeas:	D	Scale:	24k
Locator:	Interpolated	Typelog1:	S
Typelog2:	Not Reported	Typelog3:	Not Reported
Ownerind:	0	Owner:	Schieble, J.F.
Leasenam:	Not Reported	Driller:	Clark Brothers
Drldate:	1936/10/01	Permit:	Not Reported
Logdate:	Not Reported	Logger:	Grohskopf
Elev:	751		
Elevbase:	S	Prodyld:	8
Gpmcfs:	G		
Depthbed:	60		
Sampsav:	0	Swla:	275
Swlb:	Not Reported		
Water at:	11-120', 470'		
Totdepth:	511	Formation :	FERN GLEN FORMATION
Formation1:	ST. PETER SANDSTONE		
Intcrdtp:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Intordbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reldate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	Not Reported
Alagncy1:	Not Reported	Add databa:	Not Reported
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	N
Remarks:	IN WOODS 0.45 MI W, 0.5 MI N OF TTR @ GROVER		
C total:	69	C plugind:	N
C remarks:	Not Reported		

Construction Information:

Id:	003888	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	193610
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	69		
Cas1diam:	6.25		
Cas2dpth:	0		
Cas2diam:	0		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	O	Typgrt1:	Not Reported
Typgrt2:	Not Reported	Typgrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	N		
Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubepres:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	FERN GLEN FORMATION
Formation1:	ST. PETER SANDSTONE		

Strata Information:

Id:	003888	Stratordr:	0
Fmtop:	125		
Fmbot:	511		
Formation :	MIDDLE ORDOVICIAN SERIES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 0
Fmtop: 0
Fmbot: 60
Formation : NO SAMPLES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 28400
Fmtop: 60
Fmbot: 110
Formation : MISSISSIPPIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 35100
Fmtop: 110
Fmbot: 125
Formation : DEVONIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 35200
Fmtop: 110
Fmbot: 125
Formation : UPPER DEVONIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 35900
Fmtop: 110
Fmbot: 125
Formation : SULPHUR SPRINGS GROUP
Primlith: LIMESTONE
Seclith: SANDSTONE Minlith: Not Reported
Primmin: ZnS
Primocc: 1
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 36000
Fmtop: 110
Fmbot: 120
Formation : BUSHBERG SANDSTONE
Primlith: SANDSTONE
Seclith: LIMESTONE Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 36100
Fmtop: 120
Fmbot: 125
Formation : GLEN PARK LIMESTONE
Primlith: LIMESTONE
Seclith: CHERT Minlith: Not Reported
Primmin: ZnS
Primocc: 1
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 39000
Fmtop: 125
Fmbot: 511
Formation : ORDOVICIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 40100
Fmtop: 125
Fmbot: 511
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 40100
Fmtop: 125
Fmbot: 511
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 40100
Fmtop: 125
Fmbot: 511
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 40200
Fmtop: 125
Fmbot: 190
Formation : KIMMSWICK LIMESTONE
Primlith: LIMESTONE
Seclith: CHERT Minlith: Not Reported
Primmin: ZnS
Primocc: 1
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 40300
Fmtop: 190
Fmbot: 220
Formation : DECORAH GROUP
Primlith: LIMESTONE
Seclith: SHALE Minlith: CHERT
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 41000
Fmtop: 220
Fmbot: 340
Formation : PLATTIN LIMESTONE
Primlith: LIMESTONE
Seclith: CHERT Minlith: SHALE
Primmin: ZnS
Primocc: 1
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 42100
Fmtop: 335
Fmbot: 340
Formation : BRICKEYS MEMBER
Primlith: LIMESTONE
Seclith: Not Reported Minlith: SHALE
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 003888 Stratordr: 42800
Fmtop: 340
Fmbot: 465
Formation : JOACHIM DOLOMITE
Primlith: DOLOMITE
Seclith: SHALE Minlith: SAND
Primmin: ZnS
Primocc: 4
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

Minrocc:	0		
Rmk20:	Not Reported		
Strata Information:			
Id:	003888	Stratordr:	43900
Fmtop:	465		
Fmbot:	511		
Formation :	ST. PETER SANDSTONE		
Primlith:	SANDSTONE		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		
Strata Information:			
Id:	003888	Stratordr:	99900
Fmtop:	511		
Fmbot:	511		
Formation :	TOTAL DEPTH		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

12
NE
1/2 - 1 Mile
Lower

MO WELLS MOLOG1000017799

Id:	024942	Located:	Y
Notenough:	Not Reported	Scale:	24k
Locator:	Michael Lemon - Interpolated	Stname:	MISSOURI
Slabbrev:	MO	County:	ST. LOUIS
Utm x:	706605.75006		
Utm y:	4272807.49987		
Latitude:	38.58159		
Longitude:	-90.62814		
Qtr3:	NE	Qtr2:	NW
Qtr1:	SE		
Section:	1		
Tnsp:	44		
Tnspdir:	Not Reported		
Rng:	3		
Rngdir:	E		
Plssx:	706274		
Plssy:	4272975		
Location p:	147		
Elev:	752		
Idnum:	24942		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Swl:	308		
Quadrangle:	EUREKA	Site Id:	MOLOG1000017799
Header Information:			
Id:	024942	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	ST. LOUIS
Fips:	189	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	NE
Qtr2:	NW	Qtr1:	SE
Section:	01	Tnsp:	44
Tnspdir:	N	Rng:	03
Rngdir:	E		
Latitude:	38.58159		
Longitude:	-90.62814		
Utm x:	706605.75006		
Utm y:	4272807.49987		
Quadmap na:	EUREKA	Ohio code:	38090E6
Limeas:	D	Scale:	24k
Locator:	Interpolated	Typelog1:	S
Typelog2:	Not Reported	Typelog3:	Not Reported
Ownerind:	0	Owner:	Wilson, Donald J.
Leasenam:	Not Reported	Driller:	St. Charles Drlg Co
Drldate:	1966/10/21	Permit:	Not Reported
Logdate:	1968/10/01	Logger:	Thacker, J.
Elev:	752		
Elevbase:	S	Prodyld:	25
Gpmcfs:	G		
Depthbed:	65		
Sampsav:	0	Swla:	308
Swlb:	Not Reported		
Water at:	220-230',465',480-495', 555',565'		
Totdepth:	565	Formation :	BURLINGTON LIMESTONE
Formation1:	ST. PETER SANDSTONE		
Intcrdtp:	0		
Intcrdbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reldate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	Not Reported
Alagncy1:	Not Reported	Add databa:	Not Reported
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	N
Remarks:	NEAR GLENCOE - CHERRY HILLS		
C total:	125	C plugind:	N
C remarks:	Not Reported		
Construction Information:			
Id:	024942	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	196610
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	125		
Cas1diam:	5.5		
Cas2dpth:	0		
Cas2diam:	0		
Cas3dpth:	0		
Cas3diam:	0		

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Cas4dpth:	0		
Cas4diam:	0		
Inout1:	O	Typgrt1:	Not Reported
Typgrt2:	Not Reported	Typgrt3.	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	N		
Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubepres:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	FERN GLEN FORMATION
Formation1:	ST. PETER SANDSTONE		

Strata Information:			
Id:	024942	Stratordr:	0
Fmtop:	200		
Fmbot:	565		
Formation :	MIDDLE ORDOVICIAN SERIES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:			
Id:	024942	Stratordr:	0
Fmtop:	0		
Fmbot:	65		
Formation :	NO SAMPLES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

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Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 024942
Fmtop: 85
Fmbot: 125
Formation : NO SAMPLES
Primlith: Not Reported
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 0
Minlith: Not Reported

Strata Information:
Id: 024942
Fmtop: 65
Fmbot: 185
Formation : MISSISSIPPIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 28400
Minlith: Not Reported

Strata Information:
Id: 024942
Fmtop: 65
Fmbot: 85
Formation : BURLINGTON LIMESTONE
Primlith: LIMESTONE
Seclith: CHERT
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: SAMPLES MISSING
Stratordr: 32300
Minlith: DOLOMITE

Strata Information:
Id: 024942
Fmtop: 65
Fmbot: 85
Formation : BURLINGTON LIMESTONE
Primlith: LIMESTONE
Seclith: CHERT
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Stratordr: 32300
Minlith: DOLOMITE

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: SAMPLES MISSING

Strata Information:
Id: 024942
Fmtop: 125
Fmbot: 185
Formation : FERN GLEN FORMATION
Primlith: CHERT
Seclith: LIMESTONE
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 33400
Minlith: SHALE

Strata Information:
Id: 024942
Fmtop: 185
Fmbot: 200
Formation : DEVONIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 35100
Minlith: Not Reported

Strata Information:
Id: 024942
Fmtop: 185
Fmbot: 200
Formation : UPPER DEVONIAN SERIES
Primlith: Not Reported
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported
Stratordr: 35200
Minlith: Not Reported

Strata Information:
Id: 024942
Fmtop: 185
Fmbot: 200
Formation : BUSHBERG SANDSTONE
Primlith: SANDSTONE
Seclith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Stratordr: 36000
Minlith: LIMESTONE

Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 024942 Stratordr: 39000
Fmtop: 200
Fmbot: 565
Formation : ORDOVICIAN SYSTEM
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 024942 Stratordr: 40100
Fmtop: 200
Fmbot: 565
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 024942 Stratordr: 40100
Fmtop: 200
Fmbot: 565
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 024942 Stratordr: 40100
Fmtop: 200
Fmbot: 565
Formation : MOHAWKIAN SERIES
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported

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Minrocc:	0
Rmk20:	Not Reported

Strata Information:

Id:	024942	Stratordr:	40200
Fmtop:	200		
Fmbot:	295		
Formation :	KIMMSWICK LIMESTONE		
Primlith:	LIMESTONE		
Seclith:	CHERT	Minlith:	SHALE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	024942	Stratordr:	40300
Fmtop:	295		
Fmbot:	320		
Formation :	DECORAH GROUP		
Primlith:	LIMESTONE		
Seclith:	SAND	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	024942	Stratordr:	41000
Fmtop:	320		
Fmbot:	455		
Formation :	PLATTIN LIMESTONE		
Primlith:	LIMESTONE		
Seclith:	DOLOMITE	Minlith:	SHALE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	024942	Stratordr:	42800
Fmtop:	455		
Fmbot:	560		
Formation :	JOACHIM DOLOMITE		
Primlith:	DOLOMITE		
Seclith:	SHALE	Minlith:	SAND
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

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Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 024942 Stratordr: 43900
Fmtop: 560
Fmbot: 565
Formation : ST. PETER SANDSTONE
Primlith: SANDSTONE
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

Strata Information:
Id: 024942 Stratordr: 99900
Fmtop: 565
Fmbot: 565
Formation : TOTAL DEPTH
Primlith: Not Reported
Seclith: Not Reported Minlith: Not Reported
Primmin: Not Reported
Primocc: 0
Secmin: Not Reported
Secocc: 0
Minrmin: Not Reported
Minrocc: 0
Rmk20: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
63040	01/31/09	5.6
63040	04/15/08	1.8
63040	03/07/08	< 0.3
63040	03/10/09	1.3
63040	03/16/09	5
63040	08/17/05	1

Federal EPA Radon Zone for ST. LOUIS County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Missouri Public Drinking Water Wells
Source: Department of Natural Resources
Telephone: 573-526-5448

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Natural Resources
Telephone: 573-368-2143

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Benjamin K. Butterfield

Staff Scientist

Professional Summary

Mr. Butterfield joined SCI's Natural Resource Group in June 2011 to provide wetland delineation services, including field work and report writing. Mr. Butterfield also conducts Phase One Environmental Site Assessments (Phase One ESA), conducts environmental Phase Two drilling, and geotechnical drilling. Mr. Butterfield is also responsible for producing Phase One reports, and produces Stormwater Pollution Prevention Plans (SWPPP) as well as conducting the monitoring of stormwater sites.

His previous experience includes serving as a Research Intern for Taylor University's Environmental Sciences Department. In this capacity, he collected data on a hardwoods reforestation project and an interseeding prairie restoration project.

Education

M.S., Environmental Science, Taylor University, 2011

B.S., Environmental Science, Taylor University, 2010

Project Experience

- **Grissom Air Base** [Cass and Miami County, Indiana] –Assisted with a wetland and waterbody exploration of the Grissom Air Reserve Base (ARB) project site and preparation of a report summarizing the condition of all wetlands and waterbodies identified within the project site. The proposed project involved the demolition and removal of an abandoned runway, the installation of pipes in open ditch areas, and road widening and other improvements around an existing ammunition storage area.

- **Keystone XL Pipeline** [Montana, South Dakota, Nebraska] – Lead teams along the projected pipeline path to identify areas containing streams, wetlands, threatened and endangered species and habitats, and noxious (invasive) flora.

- **Missouri Bluffs Apartments** [St. Charles County, Missouri] – Conducted a biological exploration for the proposed apartment complex. Responsibilities included a field exploration of the project site to investigate any wetlands or waterbodies that would be regulated by the US Army Corps of Engineers, GPS data collection using a Trimble handheld GPS units, and preparation of a formal report to the client. Assisted the client with permitting processing through the US Army Corps of Engineers.

- Isla del Sol [Miller County, Missouri] – Conducted a compliance investigation in response to a FERC order issued to a developer, and was in charge of documenting proper boat dock installation and lighting, as well as fish habitat and shoreline vegetation mitigation areas. Field investigation included photo documentation of docks and mitigation areas, as well as identification of vegetative species and recommendations on proper species mixes to allow for better vegetative establishment on site. A report on these findings was produced following field investigation.

- **Forest Lakes Development** – [St. Clair County, Illinois] – Developed a SWPPP. Created the written SWPPP prescribing measures for slope and erosion stabilization on site. These included the establishment of native vegetation to provide permanent stabilization. Conducted site investigations of erosion control procedures including the establishment of vegetative cover for slope stabilization.

- **Jefferson Barracks VA Medical Center** – [Jefferson Barracks, Missouri] – Conducted an environmental site assessment to document current site conditions. Produced a Phase One ESA report, which included a review of historical information related to the subject site as well as determinations about current and historic uses of the site as they relate to potential Recognized Environmental Conditions.

- **Bunkum Road (FAU 9160)** – [Caseyville, Illinois] – Conducted a limited subsurface investigation associated with a Phase Two ESA. Logged borings and collected soil samples to be analyzed in an environmental laboratory for metals and hazardous substances.

Karl E. Ruhmann, P.E., R.G.

Vice President, Director of Environmental Services

Professional Summary

Mr. Ruhmann joined SCI Engineering in 1986 and has since performed environmental engineering services at facilities throughout the Midwest. He oversees all aspects of the Environmental Services Group, which includes the performance of Phase I and Phase II Environmental Assessments, Phase I and Phase II Archaeological Surveys, Environmental Impact Statements, Categorical Exclusions, Underground Storage Tank (UST) removal monitoring and surveys, corrective action plans, asbestos and lead-based paint surveys, mold investigations, and NPDES permitting and reporting. Mr. Ruhmann's extensive experience and technical expertise is primarily focused in the following areas:

- Project management of Phase I Environmental Site Assessments at multiple concurrent sites
- Generation and monitoring of remedial action strategies for clean-up of impacted soil and groundwater
- Performance of extensive and intrusive environmental investigations of industrial/commercial sites
- Mold assessments of various commercial structures

Project Experience

Project Management/Oversight

- **The Streets of St. Charles at Noah's Ark** [St. Charles, MO] – Provided a full suite of environmental services for one of the largest redevelopment projects in the St. Louis area, and one of the most unique mixed-use developments in Missouri.
- **Missouri Department of Transportation, Statewide Hazardous Waste Services** [Statewide, Missouri] – Indefinite delivery/indefinite quantity contract to provide environmental services including contamination/UST services and asbestos abatement/air monitoring services. This contract was awarded in 2006, and is on-going (2008). To date, SCI has provided services for seven projects in District 6.
- **Missouri Department of Transportation, On-Call Environmental Services** [Statewide, Missouri] – Indefinite delivery/indefinite quantity contract to provide state-wide on call environmental consulting services. Contract was awarded in 2008 and is on-going.

Education

B.S., Petroleum Engineering, University of Missouri – Rolla, 1984

Mold Assessment and Remediation in Buildings, 2002

NEPA and the Transportation Decision Making Process, 2002

Risk-Based Decision-Making: Getting Contaminated Property Deals Done, 2000

Leadership Training for Managers, Dale Carnegie Training, 1998

Registrations and Certifications

Professional Engineer
Missouri 025122 (1991)
Illinois 062.047498 (1991)

Registered Geologist
Missouri 2003029665 (2003)

OSHA 40-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER)

Affiliations

Association of Engineering Geologists

Home Builders Association, Board of Directors

American Council of Engineering Companies – Missouri

- **Missouri Department of Natural Resources – Statewide PACE Contract** [Statewide, Missouri] – Indefinite delivery/indefinite quantity contract to provide third party project monitoring for abatement/remediation projects and analysis of environmental samples for asbestos, lead, and mold. This contract was awarded in 2008.
- **MLK Plaza** [St. Louis, MO] – Multi-discipline services for a new retail development on a 4.5-acre site which features a 45,000-square-foot shopping center anchored by a grocery store.
- **Gaslight Square** [St. Louis, MO] – Performed numerous environmental services for this mixed-

use redevelopment project. Received the Grand Award for brownfield work at this site from ACEC-MO, and subsequently achieved National Finalist status in the Engineering Excellence Awards also sponsored by ACEC.

- **Botanical Heights** [St. Louis, MO] – Performed various environmental consulting services for this project, which is one of the largest urban redevelopment projects in St. Louis.
- **Walgreens at Kingshighway and Natural Bridge Road** [St. Louis, MO] – Phase One ESA, UST removal monitoring and closure services and asbestos survey were performed for two abandoned service stations. This site had previously been looked at by others for redevelopment, but its environmental condition was a limiting factor. SCI was able to demonstrate that the site was able to be closed with no remediation via Risk-Based Corrective Action.

Cellular Towers

Mr. Ruhmann's extensive experience and technical expertise is primarily focused in the following areas for cellular communication construction:

- Phase I and II Environmental Site Assessments
- NEPA Checklists
- Performance of training sessions on assessment strategies and view shed methodologies for new and existing clients
- Coordination of the performance of combined geotechnical, environmental, and archaeological services
- View Shed Analysis
- Technical review of environmental and archaeological reports

- **Cingular Wireless, Bechtel Corporation, Nextel Communications, Sprint PCS** [St. Louis and outlying areas, MO] – Project Manager for more than 150 cellular communication tower projects from 1999 – 2002, performing all above-mentioned services.

SCI ENGINEERING, INC.
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St. Charles, Missouri 63301
636-949-8200 Fax 636-949-8269
www.sciengineering.com

April 26, 2013

Mr. Jeff Boland
Lombardo Homes St. Louis
2299 Technology Drive
O'Fallon, Missouri 63368

RE: Limited Phase Two Environmental Site Assessment Report
Stone Mill
Wildwood, Missouri
SCI No. 2013-0121.21

Dear Mr. Boland:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this summary of Limited Phase Two Environmental Site Assessment (Limited Phase Two) activities at the above-referenced site (subject site or site).

The purpose of our Limited Phase Two was to evaluate for the presence of widespread impact to the soil and/or groundwater on the site from the recognized environmental conditions (RECs) identified during SCI's Phase One Environmental Site Assessment (Phase One) of the subject site, dated March 8, 2013. These RECs were as follows:

- Two former USTs on the subject site removed in 1992;
- One 2,000-gallon diesel fuel AST on the subject site;
- Two 6,800 liquid asphalt storage tanks on the subject site; and
- Former roadway de-icing salt storage on the subject site, including a 10,000 gallon liquid salt AST.

SCI was notified on March 12, 2013 that the geotechnical investigation of the subject site, conducted by others, was occurring on that day. SCI contacted Jacobi Engineering, the geotechnical engineer, and coordinated two additional borings in an attempt to screen for impact from the above-referenced concerns. SCI obtained the soil samples from the geotechnical borings and screened these samples with a PID, and some detections were noted. SCI mobilized to the site on March 13, 2013 to observe the location of the geotechnical borings. During that visit, SCI noted a petroleum odor in the borehole cuttings of Boring 4, which was advanced in the vicinity of the former UST. It was also noted that the Boring 5 was not advanced in the vicinity of the liquid salt AST, as requested. Therefore, SCI recommended that these issues be further addressed. Based on the lack of evidence of widespread impact to the subject site from the other concerns, SCI no longer considers these issues to represent RECs.

SCOPE OF SERVICE

Geoprobe Activities

On April 15, 2013, a Geo-Probe system was utilized to hydraulically drive 2.5-inch diameter stainless steel probes at two locations on site. Specifically, boring SCI-1 was advanced to a depth of 18.5 feet below the ground surface (bgs) adjacent to a former underground storage tank (UST) pit. Boring SCI-1 was terminated at a depth of 18.5 feet bgs due to probe refusal. Boring SCI-2 was advanced beneath the former location of a liquid salt aboveground storage tank (AST). Boring SCI-2 was terminated at 13 feet bgs due to probe refusal. A map depicting the locations of the borings is enclosed as Appendix A.

Soil samples were continuously collected throughout the depth of each probe advancement. Soil samples were screened on approximate 2-foot vertical intervals using a photo-ionization detector (PID) which is capable of detecting variations in concentrations of various organic trace gases. This sampling protocol and subsequent screening process aided in determining if soil impact was present. Minor PID readings were encountered in SCI-1. The sample near the highest PID reading (0 to 2 feet bgs) was collected for analytical testing. Boring SCI-2 was advanced in the vicinity of a former liquid salt AST to screen for saline soils. However, SCI also screened the soil samples from this boring with the PID meter. Minimal readings were encountered, which SCI does not consider indicative of impact to the subsurface.

In addition to soil samples, a temporary piezometer was set in SCI-1 at a depth of 18.5 feet bgs, in an attempt to collect groundwater samples. This piezometer did not produce groundwater initially, however, SCI returned to the site approximately 48 hours after the piezometer was installed. A groundwater sample was collected successfully at that time. SCI collected the groundwater sample from the SCI-1 location using a disposable polyethylene bailer.

Analytical Testing

The soil and groundwater sample collected from the boring SCI-1 was analyzed for total petroleum hydrocarbons-gasoline range organics (TPH-GRO) and volatile organic compounds (VOCs) by U.S. EPA method 8260, and total petroleum hydrocarbons diesel range organics/oil range organics (TPH-DRO/ORO) by EPA Method 8270. Laboratory results of detected constituents in the soil sample are summarized and compared to the Missouri Department of Natural Resources (MDNR) Default Target Levels (DTLs) in Table 1. The DTLs are the most conservative target levels established by the MDNR and are based on unrestricted land use. Analytical results which exceeded the DTLs or background concentrations would be compared to the Tier One Risk-Based Target Levels (RBTLs) for the anticipated routes of exposure; however, no detected analytes exceeded the DTLs in soil. Laboratory results of detected constituents in the groundwater sample collected from SCI-1 are summarized and compared to the MDNR DTLs and Tier 1 RBTLs.

Table 1 – Detected Analytical Results for Soil

Constituents	Sample ID (depth)	Remediation Objectives		
	SCI-1 (2')	DTL[1]	RBTL[2]	RBTL[3]
TPH-DRO	3,400	1,110	1,720	37,200
1,2,3,-Trimethylbenzene	0.00099	NPV	---	---
Acetone	0.029	4.2	---	---
Toluene	0.0025	29.8	---	---
TPH-GRO	0.37	41.2	---	---

Notes: All results are in mg/kg or parts per million.
NPV – no published value
Shaded areas represent an exceednace of MDNR DTLs
Bolded concentrations represent an exceedance of Tier I RBTLs
[1]Missouri Risk-Based Corrective Action (10-CSR 25-18) Lowest Default Target Levels – All Soil Types and All Pathways.
[2]Missouri Risk-Based Corrective Action (10-CSR 25-18) Risk-Based Target Level Residential Land Use Soil Type 1, cumulative exposure pathway.
[3]Missouri Risk-Based Corrective Action (10-CSR 25-18) Risk-Based Target Level Construction Worker Exposure Soil Type 1, cumulative exposure pathway

As detailed in Table 1, above, none of the detected analytes in the soil sample collected from boring SCI-1 were in excess of the associated MRBCA DTLs, with the exception of the concentration of TPH-DRO. This level also exceeded the associated Tier 1 RBTL for surficial soil, cumulative exposure pathway, which is reflective of exposure via the indoor inhalation, ingestion, and dermal contact pathway. Based on this exceedance, this area of impact would not be suitable for use within a residential development. At this time, the horizontal and vertical extent of impact is unknown, but could be determined if more sampling is conducted. Impacted materials on the subject site would likely need to be removed and disposed of off-site. Additionally, MDNR offers regulatory oversight of remedial activities through their Brownfields/Voluntary Cleanup Program (B/VCP). If the site were to go through this program, a "No Further Action" (NFA) letter may be obtained, which would indicate that the remedial activities were conducted to the satisfaction of the state regulatory agency. SCI would be pleased to assist you with this process.

SCI further compared the detected concentration of TPH-DRO to the permissible construction worker exposure RBTL, and as detailed in Table 1, above, the detected concentration did not exceed this RBTL.

Table 2 – Detected Analytical Results for Groundwater

Constituents	Sample ID (depth)	Remediation Objectives	
	SCI-1	DTL[1]	RBTL[2]
TPH-DRO	0.440	.172	82.9
TPH-ORO	0.424	.469	---
Acetone	0.0362	2.97	---

Notes: All results are in mg/L or parts per million.
[1]Missouri Risk-Based Corrective Action (10-CSR 25-18) Lowest Default Target Levels – All Soil Types and All Pathways.
[2]Missouri Risk-Based Corrective Action (10-CSR 25-18) Risk-Based Target Level Residential Land Use Soil Type 1, Indoor Inhalation Pathway.

As detailed in Table 2, above, the concentration of TPH-DRO detected in the groundwater sample collected from SCI-1 was in excess of the MDNR DTL for this compound. The DTL for TPH-DRO is associated with the domestic use of groundwater exposure route, which is typically associated with the use of groundwater for potable purposes. In order to ensure that groundwater consumption does not occur on the subject site, a deed restriction may be deemed necessary. MDNR B/VCP oversight would likely be required to obtain such a restriction. SCI assumes that water supplied to the proposed development will be provided by municipal utilities, and that drinking water wells will not be installed on the subject site. Therefore, SCI compared this concentration to the Tier 1, Soil Type 1, RBTL for residential land use, indoor inhalation pathway. The concentration of TPH-DRO was below the RBTL for the indoor inhalation exposure route, and therefore, SCI does not consider this concentration to represent a concern to the subject site, due to the fact that the exposure route associated with the DTL is not complete on the subject site.

Two soil samples were collected from the boring SCI-2, advanced in the vicinity of the former liquid salt AST. These samples were analyzed for conductivity, which was then compared the sample results to USDA published values for soil salinity, which are determined by comparing conductivity of a soil sample to a salinity level. The results of the analysis are contained in Table 2.

Table 3 – Detected Analytical Results for Soil

Constituents	Sample ID (depth)		Soil Salinity Classes[1]				
	SCI-2 (1')	SCI-2 (3')	Nonsaline	Very Slightly Saline	Slightly Saline	Moderately Saline	Strongly Saline
Specific Conductance	2.36	2.86	0 – 2.0	2.0 – 4.0	4.0 – 8.0	8.0 – 16.0	>16.0

Notes: All results are in millimhos per centimeter (mmhos/cm^{-1}).
[1]Soil Salinity Classification as published by USDA HortNote No. 5, 2002.

As detailed in Table 3, above, the salinity classification of the soil sampled on the subject site falls into the Very Slightly Saline Category. Due to the low salinity rating of the on-site soils, SCI considers it unlikely that impact from the former on-site salt storage will have negative impacts on the proposed development.

CONCLUSIONS AND RECOMMENDATIONS

Based upon review of the analytical results, SCI makes the following conclusions:

- No TPH-DRO/ORO, TPH-GRO, or VOC impact was encountered at levels exceeding the MDNR DTLs with the exception of TPH-DRO in the soil and groundwater sample collected from SCI-1.
- The conductivity analysis and salinity comparison revealed that very slightly saline soils are present on the subject site.

As discussed above, the TPH-DRO concentration in the groundwater sample does not represent a concern due to the fact that this concentration is below the RBTL for the applicable exposure route on the subject site. However, the concentration of TPH-DRO in the soil sample collected from boring SCI-1 was in excess of the associated Tier 1, Soil Type 1, RBTL for the cumulative exposure pathway. As previously mentioned, based on this exceedance, this area of impact is not suitable for use within a residential development. At this time, the full horizontal and vertical extent of impact is unknown; however, this information could be determined through additional sampling activities, as SCI recommends that the

impacted material be excavated and disposed of off-site. Should regulatory oversight be desired, the MDNR B/VCP offers such oversight of remedial activities, and provided the site is cleanup up to MDNR's satisfaction, an NFA letter may be obtained. SCI has provided consulting services for numerous B/VCP sites and is very familiar with the process. Should regulatory oversight on this project be desired, SCI would be pleased to assist you.

SCI does not consider the presence of very slightly saline soil on the subject site to pose a significant risk to the planned development on the subject site, and therefore, SCI no longer considers the presence of the former liquid salt AST to represent an REC.

LIMITATIONS

This report has been prepared for the exclusive use of Lombardo Homes of St. Louis, and their lenders (if applicable). SCI is not responsible for independent conclusions or recommendations made by others. The services performed and opinions expressed herein are consistent with other environmental consulting firms in this geographic area. The findings of this report are valid as of the present date of the assessment.

Changes in surface and subsurface conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, the broadening of knowledge, or other reasons. Accordingly, the findings of this report may be invalidated in whole or in part by changes outside our control.

No subsurface exploration can completely reveal conditions below the ground surface. Depending upon the sample spacing and frequency, every soil and groundwater condition may not be observed and some materials, stratums, or conditions present in the subsurface may not be observed. Furthermore, changes in groundwater elevation can result in changed in dissolved concentrations.

SCI should be contacted with any known or suspected variations from the conditions described herein. If further development of this site indicates the presence of hazardous, toxic, or petroleum materials, or other concerns of an environmental nature, SCI should be notified to perform a re-evaluation of the environmental conditions.

SCI appreciates the opportunity to be of continued service to you on your project. If you have any questions or require further clarification, please contact us at (636) 949-8200.

Respectfully,

SCI ENGINEERING, INC.

Benjamin K. Butterfield
Staff Scientist

Karl E. Ruhmann, P.E., R.G.
Vice President

BKB/KER/rah

Enclosures

SCI ENGINEERING, INC.
CONSULTANTS IN DEVELOPMENT,
DESIGN AND CONSTRUCTION
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

March 15, 2013

Mr. Jeff Boland
Lombardo Homes St. Louis
2299 Technology Drive
O'Fallon, Missouri 63368

RE: Limited Phase Two Environmental Site Assessment Proposal - Revised
Stone Mill
Wildwood, Missouri
SCI No. 2013-0121.21

Dear Mr. Boland:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this proposal for environmental consulting services at the above-referenced site. The subject site is currently undeveloped but was formerly used as a Missouri Department of Transportation (MODOT) truck facility. SCI is currently performing a Phase One Environmental Site Assessment of this property. As of the date of this proposal, the following recognized environmental conditions have been identified:

- Two former USTs on the subject site removed in 1992;
- One 2,000-gallon diesel fuel AST on the subject site;
- Two 6,800 liquid asphalt storage tanks on the subject site; and
- Former roadway de-icing salt storage on the subject site, including a 10,000 gallon liquid salt AST.

SCI was notified on March 12, 2013 that the geotechnical investigation of the subject site, conducted by others, was occurring on that day. SCI contacted Jacobi Engineering, the geotechnical engineer, and coordinated two additional borings to attempt to screen for impact from the above-referenced concerns. SCI obtained the soil samples from the geotechnical borings and screened these samples with a PID, and some detections were noted. SCI mobilized to the site on March 13, 2013 to observe the location of the geotechnical borings. During that visit, SCI noted a petroleum odor in the borehole cuttings of Boring 4, which was advanced in the vicinity of the former UST. It was also noted that the Boring 5 was not advanced in the vicinity of the liquid salt AST, as requested. Therefore, SCI recommends that these issues be further addressed. Based on the lack of evidence of widespread impact to the subject site from the other concerns, SCI no longer considers these issues to represent RECs.

The purpose of this proposal will be to evaluate the presence of large-scale impact to the soil and groundwater on the subject site due to these conditions.

SCOPE OF SERVICE

For the purpose of this proposal, SCI has identified four key project elements. The elements are listed below and detailed in the following sections:

- Soil Sampling
- Groundwater Sampling
- Analytical Testing
- Formal Report

Soil Sampling

SCI will advance one boring in the vicinity of the former USTs on the subject site. A Geoprobe system will be used to hydraulically drive two 2½-inch diameter stainless steel probes to a depth of 5 feet below the observed perched groundwater zone [approximately 25 feet below the ground surface (bgs)] at the selected locations. The proposed location of this boring is depicted on the attached sketch.

Soil samples will be continuously collected throughout the depth of each probe advancement. Soil samples will be retrieved using a closed-point type, large bore sampler assembly which requires a 2½-inch diameter by 4-foot long soil core in an acetate sleeve sample liner.

Each soil sample retrieved will be screened on approximate 2-foot vertical intervals using a photo-ionization detector (PID). This PID is capable of detecting variations in concentrations of organic trace gases, including aromatic petroleum hydrocarbons. This sampling protocol and subsequent screening process will aid in determining the vertical extent of soil impact, if present.

The soil sample with the highest PID reading from the boring will be submitted for analytical testing. If no PID readings are encountered during probe advancement, SCI will submit the soil sample from directly above the perched groundwater zone observed during drilling. If no groundwater is observed, SCI will submit the deepest soil sample for analysis.

To address the concerns regarding the former salt storage on the subject site, SCI will advance one boring in the vicinity of the former liquid salt AST. The proposed location of this boring is depicted on the attached sketch. Two soil samples will be collected from the boring and analyzed for soil salinity.

Decontamination procedures will consist of washing all sampling equipment in a solution of tap water and laboratory grade detergent (liquinox) followed by tap water rinse and double rinse with distilled water.

As part of the proposed scope, SCI will notify Missouri One-Call to locate public utilities. You will be responsible to locate all private utilities or structures. As such, SCI will not be responsible for damage to any unmarked or unknown utilities or structures.

Groundwater Sampling

SCI proposes to install a piezometer in the soil boring located in the vicinity of the former USTs. When the targeted soil boring depth is reached, the piezometer will be installed. The piezometer will be constructed of a Schedule 40 PVC (polyvinyl chloride) riser and screen. The screened interval is anticipated to be 10-slot (0.010-inch) for a 10-foot interval.

The piezometer will be emplaced such that the screen extends approximately 5 feet below the groundwater level observed at the time of drilling. SCI will attempt to collect a representative water sample at the time of piezometer installation. However, should groundwater not be present on the date of drilling, SCI will return periodically in attempt to collect a groundwater sample. As soon as the water sample is collected, the piezometers will be removed and the remaining void space will be filled with bentonite. The surface will be repaired as appropriate. Water samples will be transported to the laboratory in chilled containers.

Analytical Testing

The soil and groundwater samples from the boring advanced in the vicinity of the former USTs will be analyzed for total petroleum hydrocarbons-gasoline range organics (TPH-GRO) by U.S. EPA method 8260, total petroleum hydrocarbons – diesel range organics (TPH-DRO/ORO) by U.S. EPA method 8270, and volatile organic compounds (VOCs) by U.S. EPA method 8260.

Two samples will be collected from the boring advanced in the vicinity of the former liquid salt AST. These samples will be analyzed for soil salinity.

Formal Report

Results of the scope of work outlined in this proposal will be reviewed by the project manager. SCI's findings and recommendations will be presented in a formal report. The report will include a description of sampling methods, laboratory data, a site plan, and all supporting data.

ESTIMATED SCHEDULE

SCI will require three to four weeks from authorization to complete the project. Preliminary results will be available two weeks after sample submittal to the laboratory and the report will be completed one week later. However, for an additional fee of **$750.00**, SCI can initiate a rapid turnaround assessment of the site, allowing for issuance of a formal report within two weeks from authorization (report status can be relayed by letter as available). The additional fee for a rapid turnaround assessment discussed above is reflective of premiums for reporting and laboratory analysis. If you elect this option, please make a notation on the enclosed *Acceptance of Proposal for Professional Services* sheet.

SERVICE FEE

SCI will perform this study as detailed herein for a fee of **$3,100.00**. If, during the course of this exploration, SCI has reason to believe the actual fee for services could exceed the estimated cost by more than 10 percent, SCI will contact the client for authorization to continue. The findings from this initial assessment may indicate the need for additional environmental activities. We will contact you as soon as possible if such activities are foreseen as necessary.

ACCEPTANCE

If the work order outlined herein is acceptable, please provide formal authorization to proceed by completing, signing, and returning the enclosed *Acceptance of Proposal for Professional Services* sheet (a self-addressed, postage-paid envelope is enclosed for your convenience). This sheet provides important information regarding report distribution and invoicing. Formal authorization is necessary prior to initiation of the activities outlined herein. SCI services will be performed for the signatory of the enclosed form, and their lender (if applicable). Written consent must be provided by SCI should anyone other than the client (signatory) wish to excerpt, or rely on, the results of our activities. The enclosed *General Terms and Conditions* will also apply to any future services you authorize for this project.

Thank you for the opportunity to submit this proposal. If you have any questions regarding this proposal or desire to modify the proposed scope, please do not hesitate to call.

Respectfully,

SCI ENGINEERING, INC.

Benjamin K. Butterfield
Staff Scientist

Karl E. Ruhmann, P.E. R.G.
Vice President

BKB/KER/rah

Enclosures

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SCI ENGINEERING, INC.
[illegible]

ACCEPTANCE OF PROPOSAL FOR PROFESSIONAL SERVICES

Project Name: Stone Mill – Proposal for Limited Phase Two ESA - Revised

Project Number: SCI No. 2013-0121.21

Date: March 15, 2013

Fee: $3,100.00 Standard processing $3,850.00 Rapid processing
(Please check preferred processing)

Please provide formal authorization to proceed by completing, signing, and returning this form. The attached terms and conditions will apply to the services outlined in the accompanying proposal.

Accepted By:

Name and Title: Jeff Boland Address: 2289 Technology Dr

Signature: [signature] City,State,Zip: O'Fallon MO 63368

Company Name: Lombardo Homes STLouis LLC Telephone: 636-265-2710

Date: 4/5/2013

Party responsible for payment: (if different than Accepted By)

Name and Title: _____ Address: _____

Signature: _____ City, State, Zip: _____

Company Name: _____ Telephone: _____

Date: _____

Report Distribution (Note: Additional report copies after final submittal will be billed at $25.00 each)

Company Name:	Address:	No. Reports

NOTICE TO OWNER: (FOR SITES IN MISSOURI ONLY)

FAILURE OF THIS CONTRACTOR TO PAY THOSE PERSONS SUPPLYING MATERIAL OR SERVICES TO COMPLETE THIS CONTRACT CAN RESULT IN THE FILING OF A MECHANIC'S LIEN ON THE PROPERTY WHICH IS THE SUBJECT OF THIS CONTRACT PURSUANT TO CHAPTER 429.RSMo. TO AVOID THIS RESULT YOU MAY ASK THIS CONTRACTOR FOR "LIEN WAIVERS" FROM ALL PERSONS SUPPLYING MATERIAL OR SERVICES FOR THE WORK DESCRIBED IN THIS CONTRACT. FAILURE TO SECURE LIEN WAIVERS MAY RESULT IN YOU PAYING FOR LABOR AND MATERIAL TWICE.

SCI ENGINEERING, INC.

GENERAL TERMS AND CONDITIONS

1. ACCEPTANCE OF AGREEMENT The terms and conditions of the agreement between the client and SCI ENGINEERING, INC. (hereinafter called SCI) are detailed below and have been established to allocate risks between both. For the purposes of convenience, the client may choose to orally authorize our service, in which case the client agrees that the verbal agreement constitutes formal acceptance of the terms and conditions detailed below. Subsequent to an agreement by both parties to perform the services, modifications to the terms and conditions are prohibited.

2. SITE ENTRY You, the Client, will provide for right of entry of SCI or employees of firms working under the direction of SCI, and all necessary equipment, in order to perform the work. Although SCI will exercise reasonable care in performing its services, the Client understands that use of testing or other equipment may unavoidably cause some damage, the correction of which is not part of this agreement. The client agrees, to the fullest extent permitted by law, to indemnify and hold harmless SCI and its subconsultants against any damages, liabilities, or costs, arising or allegedly arising from procedures associated with testing or investigative activities. If you desire or require us to restore the site to its former condition, upon written request, we will perform such additional work as is necessary and you agree to pay all costs incurred.

3. SUBSURFACE STRUCTURES OR UTILITIES The Client will furnish to SCI information identifying the type and location of utility lines and other man-made objects beneath the site's surface. SCI will take reasonable precautions to avoid damaging these man-made objects . You agree to waive any claim against SCI, and to defend, indemnify and hold SCI harmless from any claim or liability for injury or loss allegedly arising from SCI's damaging underground utilities or other man-made objects that were not called to SCI's attention, or which were not properly located on plans furnished to SCI.

4. SAMPLES Soil, rock, water, or other samples obtained from the project site are your property. SCI shall preserve such samples for no longer than thirty (30) calendar days after the issuance of any document that includes the data obtained from them, unless other mutually agreed arrangements are documented.

Concrete test specimens will be discarded after testing. If project specification strengths are met, "hold" cylinders will be discarded at that time.

If in SCI's opinion any of the samples collected may be affected by regulated contaminants, SCI shall package such samples in accordance with applicable law and client shall arrange for lawful disposal procedures. SCI shall not, under this agreement, arrange for or be responsible for the disposal of substances affected by regulated contaminants. Furthermore, unless detailed in a specific work scope, SCI is not responsible for any soil cuttings or produced groundwater generated for the purpose of sample collection that may be affected by regulated contaminants that are left at a job site and were generated for the collection of soil and groundwater samples. SCI will, at the client's request, help the client identify appropriate alternatives for the off-site treatment, storage, or disposal of these materials, for additional fees.

5. GENERAL LIABILITY AND LIMITATION SCI agrees to hold you harmless and to indemnify you on account of any liability due to bodily injury or property damage arising directly out of our negligent operational acts, but such hold harmless and indemnity will be limited to that covered by our comprehensive general liability insurance. Our general liability insurance, subject to its limits, terms and conditions, provides protection against liability arising out of bodily injury and property damage that is the direct result of our operational negligence. At your request, SCI will provide certificates evidencing such coverage and will purchase additional limits of liability that you may require as a separate cost item to be borne by you.

You shall not be liable to SCI and SCI shall not be liable to you for any consequential damages incurred by either due to the fault of the other, regardless of the nature of this fault, or whether it was committed by you or SCI, their employees, agents, or subcontractors. Consequential damages include, but are not limited to, loss of use, loss of profit, loss of business, loss of income, loss of reputation or any other consequential damage that any party may have incurred from any cause of action, including, but not limited to negligence, strict liability, breach of contract, or breach of warranty.

6. SHARED RISK ALLOCATION The Client and SCI agree to allocate certain of the risks so that, to the fullest extent permitted by law, SCI's total aggregate liability to the Client is limited to $50,000.00 for any and all injuries, damages, claims, losses, expenses, or claim expenses (including attorney's and expert witness' fees) arising out of this AGREEMENT from any cause or causes. Such causes include, but are not limited to, SCI's negligence, errors, omissions, strict liability, statutory liability, breach of contract, breach of warranty, negligent misrepresentation, or other acts giving rise to liability based upon contract, tort, or statute. Higher limits may be available upon request and additional negotiated fee.

Limitations on liability, waivers and indemnities in this Agreement are business understandings between the parties and shall apply to all legal theories of recovery, including breach of contract or warranty, breach of fiduciary duty, tort (including negligence), strict or statutory liability, or any other cause of action. You agree that you will not seek damages in excess of the contractually agreed-upon limitation directly or indirectly through suits against other parties who may join the Consultant as third-party defendant. None of the insurance or indemnity obligations under this agreement shall be deemed to be in conflict with this limitation of liability provision.

7. INVOICES You will make all payments in accordance with SCI's invoices, and payment is due upon receipt of invoice. A fee of 1½ percent per month will be payable on any amounts not paid within thirty (30) days, payment thereafter to be applied first to accrued interest and then to your unpaid amount. You agree to pay invoices under these terms and to bear collection fees, court costs, or any other reasonable expense involved in the collection of amounts not paid.

8. HAZARDOUS MATERIALS; NOTIFICATION OF AND DISCOVERY OF When hazardous materials are known, assumed, or suspected to exist at a site, SCI is required to take appropriate precautions to protect the health and safety of its personnel, to comply with applicable laws and regulations, and to follow procedures that SCI deems prudent to help minimize physical risks to employees and the public. You warrant that you have provided to SCI all available information about type and location of known and suspected hazardous materials on, under, or adjacent to the project site.

The discovery of unanticipated hazardous or suspected hazardous materials will constitute a changed condition mandating termination of services if SCI and you are unable to renegotiate the scope of service in a timely manner. SCI will notify you as soon as practically possible should SCI encounter unanticipated hazardous or suspected hazardous materials.

The discovery of unanticipated hazardous or suspected hazardous materials may make it necessary for SCI to take measures that in SCI's professional opinion are needed to help preserve and protect the health and safety of SCI's personnel and of the public, and/or to preserve and protect the environment. As a condition precedent to the provision of service for this project, you agree to compensate SCI for the additional fees and costs associated with any such measures and further agree to defend, indemnify, and hold harmless from any claim or liability for injury or loss arising from SCI's encountering unanticipated hazardous or suspected hazardous materials.

9. CONTAMINATION OF AN AQUIFER Unavoidable contamination of soil or groundwater may occur during subsurface exploration, as when drilling or sampling tools penetrate a contaminated area, linking it to an aquifer, underground stream, or other hydrous body not previously contaminated and capable of spreading contaminants. Because subsurface exploration is an essential aspect of the services that SCI will provide on your behalf, you shall indemnify, defend, and hold SCI harmless from any claim or liability for injury or loss which may arise as a result of contamination allegedly caused by subsurface exploration.

10. SITE SAFETY With respect to project site safety, SCI shall be responsible solely for the on-site activities of its employees and subcontractors, and this responsibility shall not be construed by any party to relieve you or the general contractor from your obligation to maintain a safe project site. Neither the professional activities of SCI, nor the presence of SCI's employees or subcontractors shall be construed by any party to imply that SCI has any responsibility for any contractor's methods of work performance, procedures, superintendence, sequencing of operations, or safety in, on, or about the project site. You agree that the general contractor is responsible for project site safety, and warrant that this intent shall be made evident in your agreement with the general contractor.

11. CONSTRUCTION COST ESTIMATES An opinion of construction cost prepared by SCI represents our judgment as a design professional and is supplied for your general guidance only. Since we have no control over the cost of labor and material, nor over competitive bidding or market conditions, we do not guarantee the accuracy of our opinion as compared to other sources, such as, contractor bids of actual cost to the owner.

12. DEFECTS IN SERVICE You and your personnel, contractors, and subcontractors shall promptly report to SCI any defects or suspected defects in SCI's work, in order that SCI may take prompt effective measures which in SCI's opinion will minimize the consequences of any such defect.

13. TERMINATION Any or all services being provided for you by SCI under these General Terms and Conditions or under separate contract may be terminated by either party upon seven (7) days prior written notice. In the event of termination, SCI shall be compensated by you for all services performed up to and including the termination date, including reimbursable expenses.

14. ENVIRONMENTAL SITE ASSESSMENT An Environmental Site Assessment is conducted to render an opinion about the possibility of regulated contaminants being present on, in, or beneath the site specifically at the time services were conducted. Client understands that no matter how thorough an Environmental Site Assessment is, SCI cannot know or state factually that a site is unaffected by reportable quantities of regulated contaminants. Furthermore, even if SCI believes that reportable quantities are not present, the client bears the risk that such contaminants may be present or may migrate to the site after the study is complete. Likewise, the client agrees to hold SCI harmless from any claim or liability for injury or loss arising from the unanticipated discovery of hazardous materials or suspected hazardous materials to the fullest extent permitted by law.

15. FAILURE TO FOLLOW RECOMMENDATIONS SCI disclaims any and all responsibility and liability for problems that may occur during implementation of SCI's plans, specifications, or recommendations when SCI is not retained to observe such implementation.

16. ALTERATION OF INSTRUMENTS OF SERVICE Client agrees that designs, plans, specifications, reports, proposals, and similar documents prepared by SCI are instruments of professional service, and as such, they may not under any circumstances be altered by any party except SCI. Client warrants that SCI's instruments of service will be used only and exactly as submitted by SCI. Accordingly, Client shall waive any claim against SCI and shall, to the fullest extent permitted by law, indemnify, defend, and hold SCI harmless of any claim or liability for injury or loss arising from unauthorized alteration of SCI's instruments of service.

17. MOLD DISCLAIMER The services performed by SCI, unless specifically addressed in our scope of services, are not intended to take into account indoor amplification of mold. SCI's services may comment on depth to groundwater and site drainage, but in no instance is this to be interpreted that we were specifically intending to reduce moisture contents and/or humidity measurements within the structure as they may relate to mold. Client understands our services, unless specifically expressed in our work scope, are in no way intended to address the potential for mold infestation, and, as such, agrees to indemnify and hold SCI harmless from any claim alleging that SCI's services caused or aggravated a mold infestation.

18. OTHER PROVISIONS You agree that this contract is entered into by the parties for the sole benefit of the parties to the contract, and that nothing in the contract shall be construed to create a right or benefit for any third party.

a. Neither party shall hold the other responsible for damages or delay in performance caused by acts of God, strikes, lockouts, accidents, or other events beyond the control of the other or the other's employees and agents.

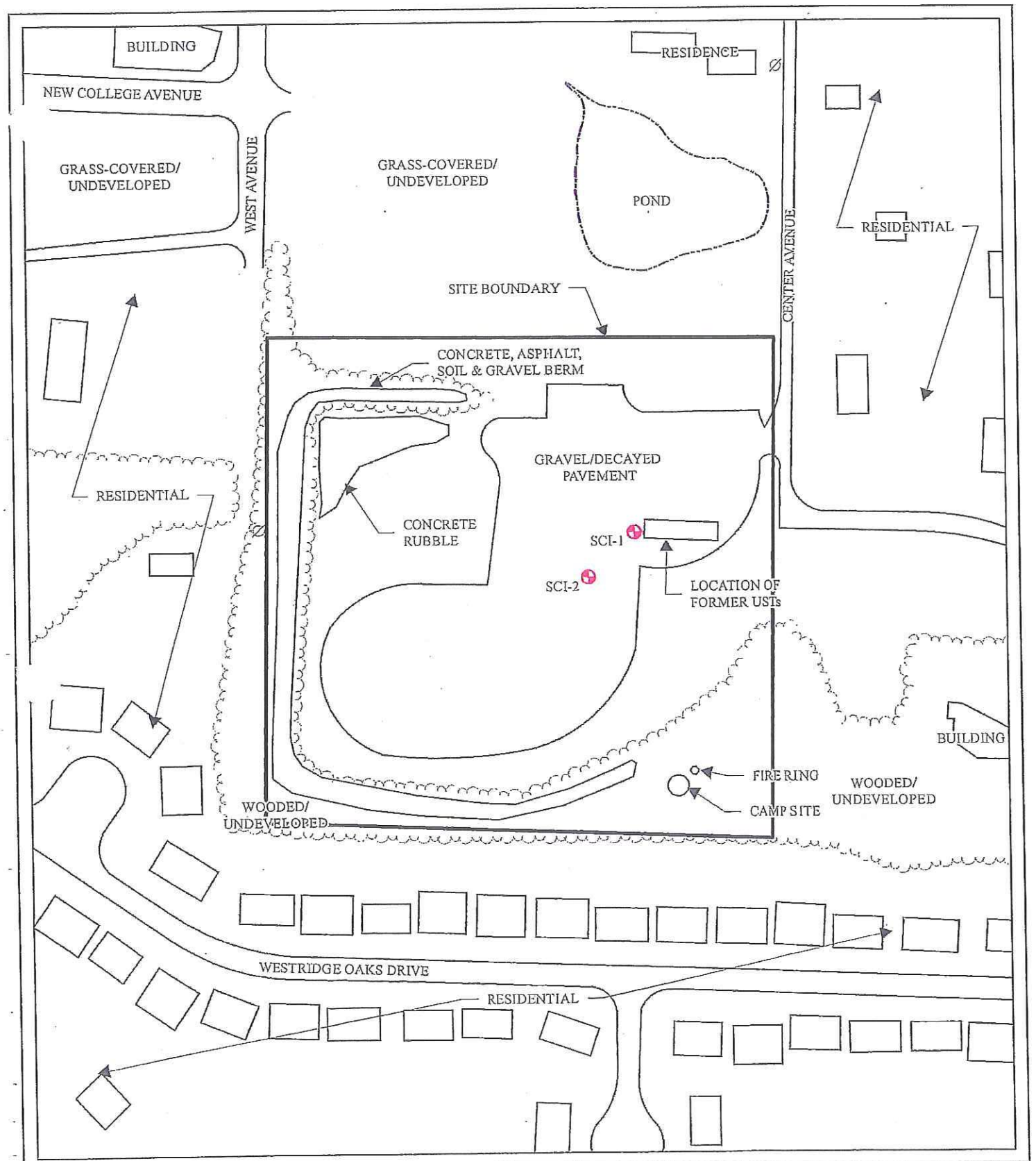
b. You agree that any and all limitations of SCI's liability and indemnifications by you shall include and extend to those individuals and entities SCI retains for performance of the services under this Agreement, including but not limited to SCI's officers, directors, and employees and their heirs and assigns, and SCI's subconsultants.

c. In an effort to resolve any conflicts that arise during or following completion of the project, you and SCI agree that all disputes between us arising out of or related to this Agreement shall be submitted to non-binding mediation, unless the parties mutually agree otherwise.

d. In the event there is a dispute between SCI and you, other than collection of fees and which is not resolved by mediation, the prevailing party shall be awarded its reasonable attorney's fees, expert witness fees, and other costs. THE PARTIES TO THIS CONTRACT HEREBY AGREE TO SUBMIT ANY SUCH DISPUTE TO THE CIRCUIT COURT OF ST. CHARLES COUNTY, STATE OF MISSOURI.

e. Test borings and test pits are an accepted and informative means of subsurface exploration. However, in the nature of things, they cannot indicate with absolute certainty the nature of the subsurface conditions between and sample locations of the exploration and below the termination of the borings or pits. Therefore, a report based on test borings, test pits, or other exploration method cannot ascertain the nature of the subsurface conditions between and beyond the specific sample locations. If conditions different than are indicated in our report come to your attention after you receive the report, it is recommended that you contact SCI immediately to inform SCI completely of what you have discovered and to authorize further evaluation, if appropriate.

f. Any recommendations provided in any correspondence, reports, plans, etc. from SCI are for the exclusive use of our client and are specific to the project covered by this contract. Recommendations provided by SCI are not meant to supercede more stringent requirements of local ordinances.



PROJECT NAME
STONE MILL
WILDWOOD, MISSOURI

BORING LOCATION MAP

DRAWN BY	RCV	DATE	JOB NUMBER
CHECKED BY	BKB	04/2013	2013-0121.21

GENERAL NOTES/LEGEND

Ø DENOTES APPROXIMATE LOCATION OF A POLE-MOUNTED TRANSFORMER

DENOTES APPROXIMATE SOIL BORING LOCATION.

DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY. DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.

N
W E
S

SCALE 1" = 150'

APPENDIX A

BORING LOG

PROJECT Stone Mill
LOCATION Wildwood, Missouri
DRILLER Geo Drill
EQUIPMENT Geoprobe
HAMMER n/a
ELEVATION

BORING NUMBER SCI-1
SHEET 1 of 1
PROJECT NO. 2013-0121.21
DATE DRILLED 04/15/13

DEPTH (ft)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE RECOVERY (in/in)	SAMPLE BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS: MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	PID READING (ppm)	LIQUID LIMIT	PLASTIC LIMIT	DEPTH (ft)
					5" ASPHALTIC CONCRETE									
					2" CRUSHED ROCK									
					LEAN CLAY (CL): Gray, slight odor		1				44.0			
	1	CS	40/48											
3					Becomes brown with gray, no odor						6.6			3
											8.5			
6	2	CS	48/48											6
											5.0			
9														9
	3	CS	48/48								4.2			
											8.6			
12					With gravel									12
											1.0			
	4	CS	40/48											
15											1.0			15
					SHALEY CLAY (CH): Light brown with gray									
	5	CS	30/30								1.0			
18														18
					Refusal at 18.5 feet.									

WATER LEVEL:
X NONE OBSERVED WHILE DRILLING
____ ft WHILE DRILLING
____ ft ____ HRS AFTER DRILLING
____ ft ____ DAYS AFTER DRILLING

REMARKS:
1) Sample collected from 0 to 2 feet.

BORING LOG

PROJECT Stone Mill
LOCATION Wildwood, Missouri
DRILLER Geo Drill HAMMER n/a
EQUIPMENT Geoprobe ELEVATION

BORING NUMBER SCI-2
SHEET 1 of 1
PROJECT NO. 2013-0121.21
DATE DRILLED 04/15/13

DEPTH (ft)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE RECOVERY (in/in)	SAMPLE BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS: MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	PID READING (ppm)	LIQUID LIMIT	PLASTIC LIMIT	DEPTH (ft)
					6" ASPHALTIC CONCRETE									
					2" CRUSHED ROCK									
					LEAN CLAY (CL): Brown		1				9.0			
3	1	CS	30/48				2				6.0			3
											6.0			
6	2	CS	48/48											6
											3.5			
					Becomes red with gray, trace gravel									
9											<1			9
	3	CS	48/48											
					GRAVELY SHALEY CLAY (CH): Light brown with gray						<1			
12	4	CS	12/12											12
					Refusal at 13 feet.									
15														15
18														18

WATER LEVEL:
X NONE OBSERVED WHILE DRILLING
____ ft WHILE DRILLING
____ ft ____ HRS AFTER DRILLING
____ ft ____ DAYS AFTER DRILLING

REMARKS:
1) Sample collected from 0 to 2 feet.
2) Sample collected from 2 to 4 feet.

April 22, 2013

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

NELAP ACCREDITED TNI LABORATORY

RE: Stone Mill/2013-0121.21 **WorkOrder:** 13040743

Dear Ben Butterfield:

TEKLAB, INC received 2 samples on 4/15/2013 4:35:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com

Client: SCI Engineering, Inc.
Client Project: Stone Mill/2013-0121.21

Work Order: 13040743
Report Date: 22-Apr-13

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	9
Receiving Check List	21
Chain of Custody	Appended

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

Abbr Definition

CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
DNI	Did not ignite
DUP	Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MB	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
SD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# -	Unknown hydrocarbon
E -	Value above quantitation range
J -	Analyte detected below quantitation limits
ND -	Not Detected at the Reporting Limit
S -	Spike Recovery outside recovery limits
B -	Analyte detected in associated Method Blank
H -	Holding times exceeded
M -	Manual Integration used to determine area response
R -	RPD outside accepted recovery limits
X -	Value exceeds Maximum Contaminant Level

Teklab, Inc.
Environmental Laboratory

Case Narrative

http://www.teklabinc.com/

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

Cooler Receipt Temp: 3.8 °C

This report was revised on 4/22/2013 per Ben Butterfield's request. The reason for the revision is to include J-flagged results. Please replace report dated 4/17/2013 with this report. EAH 4/22/13

Locations and Accreditations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2013	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2013	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2013	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		4/30/2013	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2013	Collinsville

Client: SCI Engineering, Inc.

Work Order: 13040743

Client Project: Stone Mill/2013-0121.21

Report Date: 22-Apr-13

Lab ID: 13040743-001

Client Sample ID: SCI-1

Matrix: SOLID

Collection Date: 04/15/2013 9:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA SW846 3550C, 5035A, ASTM D2974								
Percent Moisture		0.1		5.7	%	1	04/16/2013 14:09	R176037
SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
TPH-DRO (C10 - C21)		6350	J	3400	mg/Kg-dry	100	04/16/2013 17:44	87459
TPH-ORO (C21 - C35)		6350		ND	mg/Kg-dry	100	04/16/2013 17:44	87459
Surr: 2-Fluorobiphenyl		12-133		99.8	%REC	100	04/16/2013 17:44	87459
Surr: Nitrobenzene-d5		30.9-115		99.8	%REC	100	04/16/2013 17:44	87459
Surr: p-Terphenyl-d14		31.5-137		119.8	%REC	100	04/16/2013 17:44	87459
Elevated reporting limit due to sample extract composition.								
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,1,1-Trichloroethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,1,2,2-Tetrachloroethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,1,2-Trichloro-1,2,2-trifluoroethane		4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,1,2-Trichloroethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,1-Dichloro-2-propanone		41.4		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,1-Dichloroethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,1-Dichloroethene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Dichloropropene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
,3-Trichlorobenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,2,3-Trichloropropane	NELAP	8.28		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,2,3-Trimethylbenzene		4.14	J	0.99	µg/Kg-dry	1	04/16/2013 20:02	87519
1,2,4-Trichlorobenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,2,4-Trimethylbenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,2-Dibromo-3-chloropropane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,2-Dibromoethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,2-Dichlorobenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,2-Dichloroethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,2-Dichloropropane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,3,5-Trimethylbenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,3-Dichlorobenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,3-Dichloropropane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1,4-Dichlorobenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
1-Chlorobutane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
2,2-Dichloropropane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
2-Butanone	NELAP	41.4		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
2-Chlorotoluene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
2-Hexanone	NELAP	41.4		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
2-Nitropropane	NELAP	41.4		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
4-Chlorotoluene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
4-Methyl-2-pentanone	NELAP	41.4		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Acetone	NELAP	41.4	J	29	µg/Kg-dry	1	04/16/2013 20:02	87519
Acetonitrile	NELAP	82.8		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Acrolein	NELAP	82.8		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Acrylonitrile	NELAP	8.28		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
chloride	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Benzene	NELAP	0.828		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Bromobenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Lab ID: 13040743-001

Matrix: SOLID

Work Order: 13040743

Report Date: 22-Apr-13

Client Sample ID: SCI-1

Collection Date: 04/15/2013 9:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Bromochloromethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Bromodichloromethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Bromoform	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Bromomethane	NELAP	8.28		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Carbon disulfide	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Carbon tetrachloride	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Chlorobenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Chloroethane	NELAP	8.28		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Chloroform	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Chloromethane	NELAP	8.28		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
cis-1,2-Dichloroethene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
cis-1,3-Dichloropropene	NELAP	3.31		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Cyclohexanone		82.8		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Dibromochloromethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Dibromomethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Dichlorodifluoromethane	NELAP	8.28		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Diisopropyl ether		4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Ethyl ether	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
hyl methacrylate	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
hylbenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Ethyl-tert-butyl ether		4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Hexachlorobutadiene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Hexachloroethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Iodomethane	NELAP	8.28		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Isopropylbenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
m,p-Xylenes	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Methacrylonitrile	NELAP	41.4		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Methyl Methacrylate	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Methyl tert-butyl ether	NELAP	1.66		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Methylacrylate	NELAP	8.28		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Methylene chloride	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Naphthalene	NELAP	8.28		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
n-Butylbenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
n-Heptane		16.6		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
n-Hexane		16.6		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Nitrobenzene	NELAP	82.8		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
n-Propylbenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
o-Xylene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Pentachloroethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
p-Isopropyltoluene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Propionitrile	NELAP	41.4		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
sec-Butylbenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Styrene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
tert-Amyl methyl ether		4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
tert-Butyl alcohol		41.4		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
t-Butylbenzene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Tetrachloroethene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519

Teklab, Inc.
Environmental Laboratory

Laboratory Results

http://www.teklabinc.com/

Client: SCI Engineering, Inc.
Work Order: 13040743
Client Project: Stone Mill/2013-0121.21
Report Date: 22-Apr-13
Lab ID: 13040743-001
Client Sample ID: SCI-1
Matrix: SOLID
Collection Date: 04/15/2013 9:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Tetrahydrofuran	NELAP	41.4		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Toluene	NELAP	4.14	J	2.5	µg/Kg-dry	1	04/16/2013 20:02	87519
TPH - GRO (C6 - C10)		414	J	370	µg/Kg-dry	1	04/16/2013 20:02	87519
trans-1,2-Dichloroethene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
trans-1,3-Dichloropropene	NELAP	3.31		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
trans-1,4-Dichloro-2-butene	NELAP	8.28		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Trichloroethene	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Trichlorofluoromethane	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Vinyl acetate	NELAP	41.4		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Vinyl chloride	NELAP	1.66		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Xylenes, Total	NELAP	4.14		ND	µg/Kg-dry	1	04/16/2013 20:02	87519
Surr: 1,2-Dichloroethane-d4		72.2-131		103.7	%REC	1	04/16/2013 20:02	87519
Surr: 4-Bromofluorobenzene		82.1-116		102.0	%REC	1	04/16/2013 20:02	87519
Surr: Toluene-d8		86-116		98.4	%REC	1	04/16/2013 20:02	87519

Client: SCI Engineering, Inc.
Work Order: 13040743
Client Project: Stone Mill/2013-0121.21
Report Date: 22-Apr-13
Lab ID: 13040743-002
Client Sample ID: SCI-2
Matrix: SOLID
Collection Date: 04/15/2013 10:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 2-78-054 METHOD 3.2.18.1								
Specific Conductance, Solid		10		2360	µmhos/cm	1	04/15/2013 18:33	R175954

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

EPA 600 2-78-054 METHOD 3.2.18.1

Batch R175954 SampType: LCS1 Units µmhos/cm

SampID: LCS1-R175954

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Specific Conductance, Solid	10		6300	6670	0	94.5	90	110	04/15/2013

Batch R175954 SampType: DUP Units µmhos/cm RPD Limit 10

SampID: 13040743-002ADUP

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Specific Conductance, Solid	10		2380				2360	0.84	04/15/2013

EPA SW846 3550C, 5035A, ASTM D2974

Batch R176037 SampType: LCS Units %

SampID: LCS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Percent Moisture	0.1		99.0	99.0	0	100	90	110	04/16/2013

Batch R176037 SampType: LCSQC Units %

SampID: LCSQC

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Percent Moisture	0.1		99.0	99.0	0	100	90	110	04/16/2013

Batch R176037 SampType: DUP Units % RPD Limit 15

SampID: 13040557-012A-DUP

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Percent Moisture	0.1		13.8				13.78	0.43	04/16/2013

Batch R176037 SampType: DUP Units % RPD Limit 15

SampID: 13040614-010A-DUP

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Percent Moisture	0.1		21.7				21.24	2.10	04/16/2013

Batch R176037 SampType: DUP Units % RPD Limit 15

SampID: 13040687-002A-DUP

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Percent Moisture	0.1		19.7				19.64	0.31	04/16/2013

Batch R176037 SampType: DUP Units % RPD Limit 15

SampID: 13040687-004A-DUP

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Percent Moisture	0.1		17.5				17.61	0.63	04/16/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

EPA SW846 3550C, 5035A, ASTM D2974

Batch R176037 SampType: DUP Units % RPD Limit 15

SampID: 13040744-001B-DUP

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Percent Moisture	0.1	R	8.6				7.350	15.21	04/16/2013

SW-846 3550B, 8270C SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87459 SampType: MBLK Units mg/Kg

SampID: MBLK-87459

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
TPH-DRO (C10 - C21)	12.0		ND						04/16/2013
TPH-ORO (C21 - C35)	12.0		ND						04/16/2013
Surr: 2-Fluorobiphenyl			0.591	0.835		70.7	46.3	106	04/16/2013
Surr: Nitrobenzene-d5			0.572	0.835		68.5	42.4	99.2	04/16/2013
Surr: p-Terphenyl-d14			0.692	0.835		82.9	45.5	115	04/16/2013

Batch 87459 SampType: LCS Units %REC

SampID: LCS-87459

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Surr: 2-Fluorobiphenyl			0.563	0.835		67.5	46.3	106	04/16/2013
Surr: Nitrobenzene-d5			0.555	0.835		66.4	35.1	106	04/16/2013
Surr: p-Terphenyl-d14			0.677	0.835		81.1	45.5	115	04/16/2013

Batch 87459 SampType: LCS Units mg/Kg

SampID: LCSDRO-87459

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
TPH-DRO (C10 - C21)	12.0		24.2	33.4	0	72.5	17.2	146	04/16/2013
Surr: 2-Fluorobiphenyl			0.582	0.835		69.7	46.3	106	04/16/2013
Surr: Nitrobenzene-d5			0.560	0.835		67.1	35.1	106	04/16/2013
Surr: p-Terphenyl-d14			0.715	0.835		85.6	45.5	115	04/16/2013

Batch 87459 SampType: MS Units mg/Kg-dry

SampID: 13040687-003AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
TPH-DRO (C10 - C21)	15.0		31.2	41.7	0	74.8	34.5	160	04/16/2013
Surr: 2-Fluorobiphenyl			0.546	1.04		52.4	12	133	04/16/2013
Surr: Nitrobenzene-d5			0.606	1.04		58.0	30.9	115	04/16/2013
Surr: p-Terphenyl-d14			0.910	1.04		87.3	31.5	137	04/16/2013

Batch 87459 SampType: MSD Units mg/Kg-dry RPD Limit 30

SampID: 13040687-003AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
TPH-DRO (C10 - C21)	15.0		30.7	41.8	0	73.4	31.22	1.72	04/16/2013
Surr: 2-Fluorobiphenyl			0.551	1.04		52.8			04/16/2013
Surr: Nitrobenzene-d5			0.597	1.04		57.2			04/16/2013
Surr: p-Terphenyl-d14			0.871	1.04		83.4			04/16/2013

Client: SCI Engineering, Inc.

Work Order: 13040743

Client Project: Stone Mill/2013-0121.21

Report Date: 22-Apr-13

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87519 SampType: MBLK Units µg/Kg

SampID: MBLK-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	5.00		ND						04/16/2013
1,1,1-Trichloroethane	5.00		ND						04/16/2013
1,1,2,2-Tetrachloroethane	5.00		ND						04/16/2013
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00		ND						04/16/2013
1,1,2-Trichloroethane	5.00		ND						04/16/2013
1,1-Dichloro-2-propanone	50.0		ND						04/16/2013
1,1-Dichloroethane	5.00		ND						04/16/2013
1,1-Dichloroethene	5.00		ND						04/16/2013
1,1-Dichloropropene	5.00		ND						04/16/2013
1,2,3-Trichlorobenzene	5.00		ND						04/16/2013
1,2,3-Trichloropropane	10.0		ND						04/16/2013
1,2,3-Trimethylbenzene	5.00		ND						04/16/2013
1,2,4-Trichlorobenzene	5.00		ND						04/16/2013
1,2,4-Trimethylbenzene	5.00		ND						04/16/2013
1,2-Dibromo-3-chloropropane	5.00		ND						04/16/2013
1,2-Dibromoethane	5.00		ND						04/16/2013
1,2-Dichlorobenzene	5.00		ND						04/16/2013
1,2-Dichloroethane	5.00		ND						04/16/2013
1,2-Dichloropropane	5.00		ND						04/16/2013
1,3,5-Trimethylbenzene	5.00		ND						04/16/2013
1,3-Dichlorobenzene	5.00		ND						04/16/2013
1,3-Dichloropropane	5.00		ND						04/16/2013
1,4-Dichlorobenzene	5.00		ND						04/16/2013
1-Chlorobutane	5.00		ND						04/16/2013
2,2-Dichloropropane	5.00		ND						04/16/2013
2-Butanone	50.0		ND						04/16/2013
2-Chlorotoluene	5.00		ND						04/16/2013
2-Hexanone	50.0		ND						04/16/2013
2-Nitropropane	50.0		ND						04/16/2013
4-Chlorotoluene	5.00		ND						04/16/2013
4-Methyl-2-pentanone	50.0		ND						04/16/2013
Acetone	50.0		ND						04/16/2013
Acetonitrile	100		ND						04/16/2013
Acrolein	100		ND						04/16/2013
Acrylonitrile	10.0		ND						04/16/2013
Allyl chloride	5.00		ND						04/16/2013
Benzene	1.00		ND						04/16/2013
Bromobenzene	5.00		ND						04/16/2013
Bromochloromethane	5.00		ND						04/16/2013
Bromodichloromethane	5.00		ND						04/16/2013
Bromoform	5.00		ND						04/16/2013
Bromomethane	10.0		ND						04/16/2013
Carbon disulfide	5.00		ND						04/16/2013
Carbon tetrachloride	5.00		ND						04/16/2013
Chlorobenzene	5.00		ND						04/16/2013
Chloroethane	10.0		ND						04/16/2013
Chloroform	5.00		ND						04/16/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87519 SampType: MBLK Units µg/Kg

SampID: MBLK-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloromethane	10.0		ND						04/16/2013
cis-1,2-Dichloroethene	5.00		ND						04/16/2013
cis-1,3-Dichloropropene	4.00		ND						04/16/2013
Cyclohexanone	100		ND						04/16/2013
Dibromochloromethane	5.00		ND						04/16/2013
Dibromomethane	5.00		ND						04/16/2013
Dichlorodifluoromethane	10.0		ND						04/16/2013
Diisopropyl ether	5.00		ND						04/16/2013
Ethyl ether	5.00		ND						04/16/2013
Ethyl methacrylate	5.00		ND						04/16/2013
Ethylbenzene	5.00		ND						04/16/2013
Ethyl-tert-butyl ether	5.00		ND						04/16/2013
Hexachlorobutadiene	5.00		ND						04/16/2013
Hexachloroethane	5.00		ND						04/16/2013
Iodomethane	10.0		ND						04/16/2013
Isopropylbenzene	5.00		ND						04/16/2013
m,p-Xylenes	5.00		ND						04/16/2013
Methacrylonitrile	50.0		ND						04/16/2013
ethyl Methacrylate	5.00		ND						04/16/2013
ethyl tert-butyl ether	2.00		ND						04/16/2013
Methylacrylate	10.0		ND						04/16/2013
Methylene chloride	5.00		ND						04/16/2013
Naphthalene	10.0		ND						04/16/2013
n-Butylbenzene	5.00		ND						04/16/2013
n-Heptane	20.0		ND						04/16/2013
n-Hexane	20.0		ND						04/16/2013
Nitrobenzene	100	J	55						04/16/2013
n-Propylbenzene	5.00		ND						04/16/2013
o-Xylene	5.00		ND						04/16/2013
Pentachloroethane	5.00		ND						04/16/2013
p-Isopropyltoluene	5.00		ND						04/16/2013
Propionitrile	50.0		ND						04/16/2013
sec-Butylbenzene	5.00		ND						04/16/2013
Styrene	5.00		ND						04/16/2013
tert-Amyl methyl ether	5.00		ND						04/16/2013
tert-Butyl alcohol	50.0		ND						04/16/2013
tert-Butylbenzene	5.00		ND						04/16/2013
Tetrachloroethene	5.00		ND						04/16/2013
Tetrahydrofuran	50.0		ND						04/16/2013
Toluene	5.00		ND						04/16/2013
trans-1,2-Dichloroethene	5.00		ND						04/16/2013
trans-1,3-Dichloropropene	4.00		ND						04/16/2013
trans-1,4-Dichloro-2-butene	10.0		ND						04/16/2013
Trichloroethene	5.00		ND						04/16/2013
Trichlorofluoromethane	5.00		ND						04/16/2013
nyl acetate	50.0		ND						04/16/2013
Vinyl chloride	2.00		ND						04/16/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87519 SampType: MBLK Units µg/Kg

SampID: MBLK-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Xylenes, Total	5.00		ND						04/16/2013
TPH - GRO (C6 - C10)	500		ND						04/16/2013
Surr: 1,2-Dichloroethane-d4			48.5	50.0		97.0	72.2	131	04/16/2013
Surr: 4-Bromofluorobenzene			49.8	50.0		99.7	82.1	116	04/16/2013
Surr: Toluene-d8			49.5	50.0		98.9	86	116	04/16/2013

Client: SCI Engineering, Inc.

Work Order: 13040743

Client Project: Stone Mill/2013-0121.21

Report Date: 22-Apr-13

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87519 SampType: LCSD Units µg/Kg RPD Limit 40

SampID: LCSD-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,1,1,2-Tetrachloroethane	5.00		49.6	50.0	0	99.2	47.42	4.53	04/16/2013
1,1,1-Trichloroethane	5.00		47.8	50.0	0	95.6	47.70	0.23	04/16/2013
1,1,2,2-Tetrachloroethane	5.00		46.5	50.0	0	92.9	46.67	0.43	04/16/2013
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00		45.9	50.0	0	91.9	45.49	0.98	04/16/2013
1,1,2-Trichloroethane	5.00		49.4	50.0	0	98.9	46.95	5.15	04/16/2013
1,1-Dichloro-2-propanone	50.0		88.9	125	0	71.2	87.69	1.42	04/16/2013
1,1-Dichloroethane	5.00		49.3	50.0	0	98.7	48.81	1.06	04/16/2013
1,1-Dichloroethene	5.00		45.9	50.0	0	91.8	45.55	0.72	04/16/2013
1,1-Dichloropropene	5.00		48.0	50.0	0	95.9	47.66	0.61	04/16/2013
1,2,3-Trichlorobenzene	5.00		51.6	50.0	0	103.1	51.73	0.33	04/16/2013
1,2,3-Trichloropropane	10.0		44.2	50.0	0	88.3	44.80	1.44	04/16/2013
1,2,3-Trimethylbenzene	5.00		52.2	50.0	0	104.4	51.43	1.51	04/16/2013
1,2,4-Trichlorobenzene	5.00		50.5	50.0	0	101.0	49.96	1.04	04/16/2013
1,2,4-Trimethylbenzene	5.00		50.4	50.0	0	100.7	49.75	1.22	04/16/2013
1,2-Dibromo-3-chloropropane	5.00		44.9	50.0	0	89.8	44.76	0.29	04/16/2013
1,2-Dibromoethane	5.00		49.2	50.0	0	98.4	46.74	5.11	04/16/2013
1,2-Dichlorobenzene	5.00		48.1	50.0	0	96.2	47.26	1.74	04/16/2013
1,2-Dichloroethane	5.00		47.3	50.0	0	94.6	48.82	3.16	04/16/2013
?-Dichloropropane	5.00		48.3	50.0	0	96.6	49.19	1.85	04/16/2013
,5-Trimethylbenzene	5.00		49.6	50.0	0	99.3	48.83	1.67	04/16/2013
1,3-Dichlorobenzene	5.00		48.8	50.0	0	97.7	48.41	0.88	04/16/2013
1,3-Dichloropropane	5.00		48.5	50.0	0	97.0	46.81	3.57	04/16/2013
1,4-Dichlorobenzene	5.00		48.8	50.0	0	97.6	48.33	0.95	04/16/2013
1-Chlorobutane	5.00		48.1	50.0	0	96.2	45.13	6.37	04/16/2013
2,2-Dichloropropane	5.00		46.5	50.0	0	92.9	46.35	0.26	04/16/2013
2-Butanone	50.0		107	125	0	85.4	114.8	7.24	04/16/2013
2-Chlorotoluene	5.00		47.4	50.0	0	94.8	47.09	0.68	04/16/2013
2-Hexanone	50.0		115	125	0	92.3	116.0	0.46	04/16/2013
2-Nitropropane	50.0		463	500	0	92.7	512.3	10.05	04/16/2013
4-Chlorotoluene	5.00		48.4	50.0	0	96.8	47.72	1.39	04/16/2013
4-Methyl-2-pentanone	50.0		112	125	0	89.8	141.6	23.12	04/16/2013
Acetone	50.0		97.9	125	0	78.3	110.0	11.65	04/16/2013
Acetonitrile	100		464	500	0	92.8	482.5	3.94	04/16/2013
Acrolein	100		318	500	0	63.7	345.7	8.23	04/16/2013
Acrylonitrile	10.0		45.0	50.0	0	89.9	46.18	2.65	04/16/2013
Allyl chloride	5.00		50.1	50.0	0	100.1	51.07	1.98	04/16/2013
Benzene	1.00		48.3	50.0	0	96.6	47.85	0.94	04/16/2013
Bromobenzene	5.00		47.5	50.0	0	95.0	45.92	3.38	04/16/2013
Bromochloromethane	5.00		45.6	50.0	0	91.1	46.75	2.56	04/16/2013
Bromodichloromethane	5.00		49.7	50.0	0	99.4	50.69	1.99	04/16/2013
Bromoform	5.00		48.5	50.0	0	97.1	47.25	2.69	04/16/2013
Bromomethane	10.0		39.2	50.0	0	78.3	40.05	2.27	04/16/2013
Carbon disulfide	5.00		43.4	50.0	0	86.9	43.13	0.74	04/16/2013
Carbon tetrachloride	5.00		46.2	50.0	0	92.5	46.02	0.50	04/16/2013
Chlorobenzene	5.00		50.7	50.0	0	101.4	48.44	4.58	04/16/2013
'oroethane	10.0		42.1	50.0	0	84.3	46.10	8.98	04/16/2013
Chloroform	5.00		47.6	50.0	0	95.3	47.36	0.57	04/16/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87519 SampType: LCSD Units µg/Kg RPD Limit 40

SampID: LCSD-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloromethane	10.0		32.0	50.0	0	64.0	36.29	12.56	04/16/2013
cis-1,2-Dichloroethene	5.00		49.2	50.0	0	98.3	47.97	2.45	04/16/2013
cis-1,3-Dichloropropene	4.00		50.4	50.0	0	100.7	51.76	2.72	04/16/2013
Cyclohexanone	100		417	500	0	83.5	454.0	8.38	04/16/2013
Dibromochloromethane	5.00		50.9	50.0	0	101.8	48.80	4.17	04/16/2013
Dibromomethane	5.00		49.4	50.0	0	98.8	50.03	1.27	04/16/2013
Dichlorodifluoromethane	10.0		28.4	50.0	0	56.9	30.67	7.55	04/16/2013
Diisopropyl ether	5.00		44.0	50.0	0	88.0	48.13	8.99	04/16/2013
Ethyl ether	5.00		45.0	50.0	0	90.0	46.21	2.63	04/16/2013
Ethyl methacrylate	5.00		52.4	50.0	0	104.8	51.74	1.31	04/16/2013
Ethylbenzene	5.00		51.0	50.0	0	102.0	48.66	4.74	04/16/2013
Ethyl-tert-butyl ether	5.00		43.7	50.0	0	87.4	47.57	8.53	04/16/2013
Hexachlorobutadiene	5.00		50.2	50.0	0	100.3	47.83	4.78	04/16/2013
Hexachloroethane	5.00		44.9	50.0	0	89.7	44.38	1.10	04/16/2013
Iodomethane	10.0		45.4	50.0	0	90.8	40.40	11.70	04/16/2013
Isopropylbenzene	5.00		51.7	50.0	0	103.4	49.65	4.03	04/16/2013
m,p-Xylenes	5.00		104	100	0	103.7	99.81	3.84	04/16/2013
Methacrylonitrile	50.0		50.3	50.0	0	100.6	52.62	4.51	04/16/2013
Methyl Methacrylate	5.00		43.7	50.0	0	87.4	45.63	4.30	04/16/2013
Methyl tert-butyl ether	2.00		43.9	50.0	0	87.8	48.30	9.59	04/16/2013
Methylacrylate	10.0		47.2	50.0	0	94.4	48.93	3.60	04/16/2013
Methylene chloride	5.00		45.8	50.0	0	91.6	45.17	1.43	04/16/2013
Naphthalene	10.0		51.7	50.0	0	103.4	52.37	1.33	04/16/2013
n-Butylbenzene	5.00		53.2	50.0	0	106.5	53.21	0.08	04/16/2013
n-Heptane	20.0		49.9	50.0	0	99.7	47.62	4.62	04/16/2013
n-Hexane	20.0		46.1	50.0	0	92.2	44.42	3.67	04/16/2013
Nitrobenzene	100		280	500	0	56.1	299.6	6.59	04/16/2013
n-Propylbenzene	5.00		49.2	50.0	0	98.4	48.38	1.72	04/16/2013
o-Xylene	5.00		50.8	50.0	0	101.6	48.61	4.43	04/16/2013
Pentachloroethane	5.00		46.9	50.0	0	93.8	45.63	2.72	04/16/2013
p-Isopropyltoluene	5.00		51.6	50.0	0	103.2	51.19	0.78	04/16/2013
Propionitrile	50.0		460	500	0	91.9	475.3	3.32	04/16/2013
sec-Butylbenzene	5.00		49.7	50.0	0	99.4	48.71	2.03	04/16/2013
Styrene	5.00		53.0	50.0	0	106.1	50.93	4.08	04/16/2013
tert-Amyl methyl ether	5.00		44.1	50.0	0	88.3	48.94	10.34	04/16/2013
tert-Butyl alcohol	50.0		204	250	0	81.7	235.6	14.19	04/16/2013
tert-Butylbenzene	5.00		49.3	50.0	0	98.6	47.62	3.45	04/16/2013
Tetrachloroethene	5.00		51.8	50.0	0	103.6	48.58	6.40	04/16/2013
Tetrahydrofuran	50.0	J	47	50.0	0	93.3	47.77	0.00	04/16/2013
Toluene	5.00		49.4	50.0	0	98.8	46.60	5.79	04/16/2013
trans-1,2-Dichloroethene	5.00		48.7	50.0	0	97.4	48.00	1.43	04/16/2013
trans-1,3-Dichloropropene	4.00		55.7	50.0	0	111.3	53.01	4.90	04/16/2013
trans-1,4-Dichloro-2-butene	10.0		42.5	50.0	0	85.0	43.90	3.29	04/16/2013
Trichloroethene	5.00		49.9	50.0	0	99.7	49.44	0.87	04/16/2013
Trichlorofluoromethane	5.00		41.5	50.0	0	82.9	45.17	8.57	04/16/2013
Vinyl acetate	50.0		54.8	50.0	0	109.5	53.77	1.82	04/16/2013
Vinyl chloride	2.00		34.3	50.0	0	68.5	39.69	14.66	04/16/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87519 SampType: LCSD Units µg/Kg RPD Limit 40

SampID: LCSD-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Xylenes, Total	5.00		155	150	0	103.0	148.4	4.03	04/16/2013
Surr: 1,2-Dichloroethane-d4			48.5	50.0		97.1			04/16/2013
Surr: 4-Bromofluorobenzene			53.3	50.0		106.6			04/16/2013
Surr: Toluene-d8			52.3	50.0		104.5			04/16/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87519 SampType: LCS Units µg/Kg

SampID: LCS-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	5.00		47.4	50.0	0	94.8	84	114	04/16/2013
1,1,1-Trichloroethane	5.00		47.7	50.0	0	95.4	81.6	121	04/16/2013
1,1,2,2-Tetrachloroethane	5.00		46.7	50.0	0	93.3	73.8	117	04/16/2013
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00		45.5	50.0	0	91.0	73.9	122	04/16/2013
1,1,2-Trichloroethane	5.00		47.0	50.0	0	93.9	83	112	04/16/2013
1,1-Dichloro-2-propanone	50.0		87.7	125	0	70.2	52.2	138	04/16/2013
1,1-Dichloroethane	5.00		48.8	50.0	0	97.6	82.7	117	04/16/2013
1,1-Dichloroethene	5.00		45.6	50.0	0	91.1	77.8	120	04/16/2013
1,1-Dichloropropene	5.00		47.7	50.0	0	95.3	81.5	119	04/16/2013
1,2,3-Trichlorobenzene	5.00		51.7	50.0	0	103.5	73.5	139	04/16/2013
1,2,3-Trichloropropane	10.0		44.8	50.0	0	89.6	73.2	115	04/16/2013
1,2,3-Trimethylbenzene	5.00		51.4	50.0	0	102.9	81	121	04/16/2013
1,2,4-Trichlorobenzene	5.00		50.0	50.0	0	99.9	72.5	145	04/16/2013
1,2,4-Trimethylbenzene	5.00		49.8	50.0	0	99.5	82.7	115	04/16/2013
1,2-Dibromo-3-chloropropane	5.00		44.8	50.0	0	89.5	67.3	127	04/16/2013
1,2-Dibromoethane	5.00		46.7	50.0	0	93.5	84.5	114	04/16/2013
1,2-Dichlorobenzene	5.00		47.3	50.0	0	94.5	85.8	116	04/16/2013
[illegible]-Dichloroethane	5.00		48.8	50.0	0	97.6	75.2	126	04/16/2013
[illegible]Dichloropropane	5.00		49.2	50.0	0	98.4	82.1	117	04/16/2013
1,3,5-Trimethylbenzene	5.00		48.8	50.0	0	97.7	79.3	122	04/16/2013
1,3-Dichlorobenzene	5.00		48.4	50.0	0	96.8	84.8	119	04/16/2013
1,3-Dichloropropane	5.00		46.8	50.0	0	93.6	81.4	113	04/16/2013
1,4-Dichlorobenzene	5.00		48.3	50.0	0	96.7	83.3	120	04/16/2013
1-Chlorobutane	5.00		45.1	50.0	0	90.3	76.1	115	04/16/2013
2,2-Dichloropropane	5.00		46.4	50.0	0	92.7	76.9	123	04/16/2013
2-Butanone	50.0		115	125	0	91.8	61.4	128	04/16/2013
2-Chlorotoluene	5.00		47.1	50.0	0	94.2	80.5	116	04/16/2013
2-Hexanone	50.0		116	125	0	92.8	60.6	127	04/16/2013
2-Nitropropane	50.0		512	500	0	102.5	63.7	136	04/16/2013
4-Chlorotoluene	5.00		47.7	50.0	0	95.4	80.9	119	04/16/2013
4-Methyl-2-pentanone	50.0		142	125	0	113.2	62.7	138	04/16/2013
Acetone	50.0		110	125	0	88.0	49.9	127	04/16/2013
Acetonitrile	100		482	500	0	96.5	55.6	140	04/16/2013
Acrolein	100		346	500	0	69.1	1	200	04/16/2013
Acrylonitrile	10.0		46.2	50.0	0	92.4	67.9	128	04/16/2013
Allyl chloride	5.00		51.1	50.0	0	102.1	60.7	134	04/16/2013
Benzene	1.00		47.8	50.0	0	95.7	82.7	118	04/16/2013
Bromobenzene	5.00		45.9	50.0	0	91.8	83.6	113	04/16/2013
Bromochloromethane	5.00		46.8	50.0	0	93.5	78.4	119	04/16/2013
Bromodichloromethane	5.00		50.7	50.0	0	101.4	85.1	122	04/16/2013
Bromoform	5.00		47.2	50.0	0	94.5	80.5	120	04/16/2013
Bromomethane	10.0		40.0	50.0	0	80.1	1	165	04/16/2013
Carbon disulfide	5.00		43.1	50.0	0	86.3	67.5	122	04/16/2013
Carbon tetrachloride	5.00		46.0	50.0	0	92.0	79.8	123	04/16/2013
[illegible]robenzene	5.00		48.4	50.0	0	96.9	85.5	116	04/16/2013
[illegible]oroethane	10.0		46.1	50.0	0	92.2	54.2	138	04/16/2013
Chloroform	5.00		47.4	50.0	0	94.7	82.6	117	04/16/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87519 SampType: LCS Units µg/Kg

SampID: LCS-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloromethane	10.0		36.3	50.0	0	72.6	30	161	04/16/2013
cis-1,2-Dichloroethene	5.00		48.0	50.0	0	95.9	85.2	115	04/16/2013
cis-1,3-Dichloropropene	4.00		51.8	50.0	0	103.5	84	121	04/16/2013
Cyclohexanone	100		454	500	0	90.8	47.9	130	04/16/2013
Dibromochloromethane	5.00		48.8	50.0	0	97.6	83.3	117	04/16/2013
Dibromomethane	5.00		50.0	50.0	0	100.1	83.5	117	04/16/2013
Dichlorodifluoromethane	10.0		30.7	50.0	0	61.3	1	200	04/16/2013
Diisopropyl ether	5.00		48.1	50.0	0	96.3	76.7	119	04/16/2013
Ethyl ether	5.00		46.2	50.0	0	92.4	78.3	117	04/16/2013
Ethyl methacrylate	5.00		51.7	50.0	0	103.5	76.9	118	04/16/2013
Ethylbenzene	5.00		48.7	50.0	0	97.3	85.4	116	04/16/2013
Ethyl-tert-butyl ether	5.00		47.6	50.0	0	95.1	80.2	120	04/16/2013
Hexachlorobutadiene	5.00		47.8	50.0	0	95.7	71.9	141	04/16/2013
Hexachloroethane	5.00		44.4	50.0	0	88.8	75.1	119	04/16/2013
Iodomethane	10.0		40.4	50.0	0	80.8	47.7	147	04/16/2013
Isopropylbenzene	5.00		49.6	50.0	0	99.3	85.3	125	04/16/2013
m,p-Xylenes	5.00		99.8	100	0	99.8	86.2	117	04/16/2013
Methacrylonitrile	50.0		52.6	50.0	0	105.2	67.4	135	04/16/2013
·thyl Methacrylate	5.00		45.6	50.0	0	91.3	75.4	123	04/16/2013
.thyl tert-butyl ether	2.00		48.3	50.0	0	96.6	81	123	04/16/2013
Methylacrylate	10.0		48.9	50.0	0	97.9	70.6	129	04/16/2013
Methylene chloride	5.00		45.2	50.0	0	90.3	76.5	116	04/16/2013
Naphthalene	10.0		52.4	50.0	0	104.7	68.2	132	04/16/2013
n-Butylbenzene	5.00		53.2	50.0	0	106.4	70.5	136	04/16/2013
n-Heptane	20.0		47.6	50.0	0	95.2	72.2	117	04/16/2013
n-Hexane	20.0		44.4	50.0	0	88.8	62.5	124	04/16/2013
Nitrobenzene	100		300	500	0	59.9	25.6	131	04/16/2013
n-Propylbenzene	5.00		48.4	50.0	0	96.8	81.3	118	04/16/2013
o-Xylene	5.00		48.6	50.0	0	97.2	85.2	117	04/16/2013
Pentachloroethane	5.00		45.6	50.0	0	91.3	81	118	04/16/2013
p-Isopropyltoluene	5.00		51.2	50.0	0	102.4	80.1	127	04/16/2013
Propionitrile	50.0		475	500	0	95.1	64.6	135	04/16/2013
sec-Butylbenzene	5.00		48.7	50.0	0	97.4	82.1	120	04/16/2013
Styrene	5.00		50.9	50.0	0	101.9	88.4	120	04/16/2013
tert-Amyl methyl ether	5.00		48.9	50.0	0	97.9	83.3	118	04/16/2013
tert-Butyl alcohol	50.0		236	250	0	94.2	54.3	135	04/16/2013
tert-Butylbenzene	5.00		47.6	50.0	0	95.2	75.3	127	04/16/2013
Tetrachloroethene	5.00		48.6	50.0	0	97.2	84	117	04/16/2013
Tetrahydrofuran	50.0	J	48	50.0	0	95.5	63.6	126	04/16/2013
Toluene	5.00		46.6	50.0	0	93.2	81.1	110	04/16/2013
trans-1,2-Dichloroethene	5.00		48.0	50.0	0	96.0	81.3	120	04/16/2013
trans-1,3-Dichloropropene	4.00		53.0	50.0	0	106.0	82.6	114	04/16/2013
trans-1,4-Dichloro-2-butene	10.0		43.9	50.0	0	87.8	67	119	04/16/2013
Trichloroethene	5.00		49.4	50.0	0	98.9	86.1	120	04/16/2013
Trichlorofluoromethane	5.00		45.2	50.0	0	90.3	67.5	131	04/16/2013
ıyl acetate	50.0		53.8	50.0	0	107.5	72.5	120	04/16/2013
vinyl chloride	2.00		39.7	50.0	0	79.4	40.6	162	04/16/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87519 SampType: LCS Units µg/Kg

SampID: LCS-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Xylenes, Total	5.00		148	150	0	98.9	86.1	117	04/16/2013
Surr: 1,2-Dichloroethane-d4			50.8	50.0		101.6	72.2	131	04/16/2013
Surr: 4-Bromofluorobenzene			51.0	50.0		101.9	82.1	116	04/16/2013
Surr: Toluene-d8			49.7	50.0		99.4	86	116	04/16/2013

Batch 87519 SampType: LCSGD Units µg/Kg RPD Limit 20

SampID: LCSGD-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
TPH - GRO (C6 - C10)	500		2270	2000	0	113.4	2455	7.90	04/16/2013
Surr: 1,2-Dichloroethane-d4			46.7	50.0		93.4			04/16/2013
Surr: 4-Bromofluorobenzene			52.8	50.0		105.6			04/16/2013
Surr: Toluene-d8			49.8	50.0		99.6			04/16/2013

Batch 87519 SampType: LCSG Units µg/Kg

SampID: LCSG-G130416-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
TPH - GRO (C6 - C10)	500		2460	2000	0	122.8	70	130	04/16/2013
Surr: 1,2-Dichloroethane-d4			46.7	50.0		93.3	72.2	131	04/16/2013
Surr: 4-Bromofluorobenzene			51.9	50.0		103.9	82.1	116	04/16/2013
Surr: Toluene-d8			49.5	50.0		99.0	86	116	04/16/2013

Batch 87519 SampType: MS Units µg/Kg-dry

SampID: 13040744-001AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1-Dichloroethene	5.63		55.5	56.3	0	98.5	46.8	150	04/16/2013
Benzene	1.13		49.1	56.3	0	87.1	50.9	138	04/16/2013
Chlorobenzene	5.63		38.6	56.3	0	68.6	29.9	160	04/16/2013
Ethylbenzene	5.63		42.0	56.3	0	74.6	39.1	160	04/16/2013
m,p-Xylenes	5.63		39.9	56.3	0	70.8	32.2	154	04/16/2013
o-Xylene	5.63		38.8	56.3	0	69.0	33.9	155	04/16/2013
Toluene	5.63		44.9	56.3	0	79.7	44.8	143	04/16/2013
Trichloroethene	5.63		50.9	56.3	0	90.3	44.3	152	04/16/2013
Xylenes, Total	5.63		78.7	113	0	69.9	33.9	154	04/16/2013
Surr: 1,2-Dichloroethane-d4			61.0	56.3		108.3	72.2	131	04/16/2013
Surr: 4-Bromofluorobenzene			52.5	56.3		93.2	82.1	116	04/16/2013
Surr: Toluene-d8			58.6	56.3		104.0	86	116	04/16/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040743

Report Date: 22-Apr-13

SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87519 SampType: MSD Units µg/Kg-dry RPD Limit 20

SampID: 13040744-001AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,1-Dichloroethene	5.63		49.8	56.3	0	88.4	55.51	10.83	04/16/2013
Benzene	1.13		46.8	56.3	0	83.1	49.05	4.65	04/16/2013
Chlorobenzene	5.63		40.7	56.3	0	72.3	38.64	5.20	04/16/2013
Ethylbenzene	5.63		41.2	56.3	0	73.1	42.01	2.03	04/16/2013
m,p-Xylenes	5.63		39.5	56.3	0	70.2	39.88	0.88	04/16/2013
o-Xylene	5.63		39.7	56.3	0	70.5	38.85	2.15	04/16/2013
Toluene	5.63		43.8	56.3	0	77.8	44.90	2.46	04/16/2013
Trichloroethene	5.63		47.3	56.3	0	84.0	50.87	7.18	04/16/2013
Xylenes, Total	5.63		79.2	113	0	70.3	78.73	0.63	04/16/2013
Surr: 1,2-Dichloroethane-d4			58.9	56.3		104.6			04/16/2013
Surr: 4-Bromofluorobenzene			48.9	56.3		86.7			04/16/2013
Surr: Toluene-d8			59.2	56.3		105.2			04/16/2013

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: SCI Engineering, Inc.
Client Project: Stone Mill/2013-0121.21

Work Order: 13040743
Report Date: 22-Apr-13

Carrier: Kendrick Prejean

Received By: SRH

Completed by: Emily E. Pohlman
On: 16-Apr-13

Reviewed by: Elizabeth A. Hurley
On: 16-Apr-13

Pages to follow: Chain of custody [1] Extra pages included [0]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp ℃ 3.8
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1℃ - 6.0℃, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials	☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers	☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐		
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA	☑

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 1304074 3

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	SCI Engineering, Inc.
Address:	130 Point West Boulevard
City / State / Zip	St. Charles, MO 63301
Contact:	Ben Butterfield
Phone:	(636) 949-8200
E-Mail:	bbutterfield@sciengineering.com
Fax:	

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 3.3 °C

Preserved in: [ ] LAB [X] FIELD

FOR LAB USE ONLY

Lab Notes:

Are these samples known to be involved in litigation? If yes, a surcharge will apply [ ] Yes [X] No

Are these samples known to be hazardous? [ ] Yes [X] No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. [X] Yes [ ] No

Client Comments:

Analyze/report salinity as conductivity of soil.

MEET MCBCA OTL's

Project Name/Number	Sample Collector's Name
Stone Mill/2013-0121.21	BEN BUTTERFIELD

Results Requested: [X] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other ____ [ ] 3 Day (50% Surcharge)

Billing Instructions: 13-0121.21

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	INDICATE ANALYSIS REQUESTED: DRO ORO	Salinity	VOCs with GRO
1304074 3 -001	SCI-1	4/15/13 945	2				X		—				X			X		X
-002	SCI-2	4/15/13 1000	X										X				X	

Teklab, Inc.
Courier Pick Up

Relinquished By	Date/Time	Received By	Date/Time
Ben Butterfield	4/15/13 1125	[signature]	4-15-13 15:56
[signature]	4-15-13 16:35	[signature]	4/15/13 16:35

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 14513

April 22, 2013

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

NELAP ACCREDITED TNI LABORATORY

RE: Stone Mill/2013-0121.21

WorkOrder: 13040925

Dear Ben Butterfield:

TEKLAB, INC received 1 sample on 4/17/2013 5:05:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

Client: SCI Engineering, Inc.
Client Project: Stone Mill/2013-0121.21

Work Order: 13040925
Report Date: 22-Apr-13

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
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Laboratory Results	5
Quality Control Results	8
Receiving Check List	21
Chain of Custody	Appended

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

Abbr Definition

CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
DNI	Did not ignite
DUP	Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MB	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
SD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TNTC	Too numerous to count (> 200 CFU)

Qualifiers

# - Unknown hydrocarbon	B - Analyte detected in associated Method Blank
E - Value above quantitation range	H - Holding times exceeded
M - Manual Integration used to determine area response	ND - Not Detected at the Reporting Limit
R - RPD outside accepted recovery limits	S - Spike Recovery outside recovery limits
X - Value exceeds Maximum Contaminant Level	

Teklab, Inc.
Environmental Laboratory

Case Narrative

http://www.teklabinc.com/

Client: SCI Engineering, Inc.
Client Project: Stone Mill/2013-0121.21

Work Order: 13040925
Report Date: 22-Apr-13

Cooler Receipt Temp: 2.4 °C

Locations and Accreditations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2013	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2013	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2013	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		4/30/2013	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2013	Collinsville

Client: SCI Engineering, Inc.
Work Order: 13040925
Client Project: Stone Mill/2013-0121.21
Report Date: 22-Apr-13
Lab ID: 13040925-001
Client Sample ID: SCI-1
Matrix: AQUEOUS
Collection Date: 04/17/2013 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
TPH-DRO (C10 - C21)		0.300		0.440	mg/L	1	04/18/2013 15:57	87578
TPH-ORO (C21 - C35)		0.300		0.424	mg/L	1	04/18/2013 15:57	87578
Surr: 2-Fluorobiphenyl		25.9-104		55.9	%REC	1	04/18/2013 15:57	87578
Surr: Nitrobenzene-d5		15.5-114		58.0	%REC	1	04/18/2013 15:57	87578
Surr: p-Terphenyl-d14		1-121		38.1	%REC	1	04/18/2013 15:57	87578
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,1,1-Trichloroethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,1,2,2-Tetrachloroethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	04/18/2013 15:48	87638
1,1,2-Trichloroethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,1-Dichloro-2-propanone	NELAP	50.0		ND	µg/L	1	04/18/2013 15:48	87638
1,1-Dichloroethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,1-Dichloroethene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,1-Dichloropropene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2,3-Trichlorobenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2,3-Trichloropropane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2,3-Trimethylbenzene		5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2,4-Trichlorobenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2,4-Trimethylbenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2-Dibromo-3-chloropropane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2-Dibromoethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2-Dichlorobenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2-Dichloroethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2-Dichloroethene, Total		5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,2-Dichloropropane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,3,5-Trimethylbenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,3-Dichlorobenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,3-Dichloropropane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,3-Dichloropropene, Total		5.00		ND	µg/L	1	04/18/2013 15:48	87638
1,4-Dichloro-2-butene, Total		10.0		ND	µg/L	1	04/18/2013 15:48	87638
1,4-Dichlorobenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
1-Chlorobutane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
2,2-Dichloropropane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
2-Butanone	NELAP	25.0		ND	µg/L	1	04/18/2013 15:48	87638
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	04/18/2013 15:48	87638
2-Chlorotoluene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
2-Hexanone	NELAP	25.0		ND	µg/L	1	04/18/2013 15:48	87638
2-Nitropropane	NELAP	50.0		ND	µg/L	1	04/18/2013 15:48	87638
4-Chlorotoluene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	04/18/2013 15:48	87638
Acetone	NELAP	25.0		36.2	µg/L	1	04/18/2013 15:48	87638
Acetonitrile	NELAP	50.0		ND	µg/L	1	04/18/2013 15:48	87638
Acrolein	NELAP	100		ND	µg/L	1	04/18/2013 15:48	87638
Acrylonitrile	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Allyl chloride	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Benzene	NELAP	2.00		ND	µg/L	1	04/18/2013 15:48	87638

Client: SCI Engineering, Inc.
Work Order: 13040925

Client Project: Stone Mill/2013-0121.21
Report Date: 22-Apr-13

Lab ID: 13040925-001
Client Sample ID: SCI-1

Matrix: AQUEOUS
Collection Date: 04/17/2013 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Bromobenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Bromochloromethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Bromodichloromethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Bromoform	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Bromomethane	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
Carbon disulfide	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Carbon tetrachloride	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Chlorobenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Chloroethane	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
Chloroform	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Chloromethane	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
Chloroprene	NELAP	20.0		ND	µg/L	1	04/18/2013 15:48	87638
cis-1,2-Dichloroethene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
cis-1,3-Dichloropropene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
cis-1,4-Dichloro-2-butene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Cyclohexanone		50.0		ND	µg/L	1	04/18/2013 15:48	87638
Dibromochloromethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Dibromomethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
Diisopropyl ether		2.00		ND	µg/L	1	04/18/2013 15:48	87638
Ethyl acetate	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
Ethyl ether	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Ethyl methacrylate	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Ethylbenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Ethyl-tert-butyl ether		2.00		ND	µg/L	1	04/18/2013 15:48	87638
Hexachlorobutadiene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Hexachloroethane	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
Iodomethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Isopropylbenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
m,p-Xylenes	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
Methyl Methacrylate	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Methyl tert-butyl ether	NELAP	2.00		ND	µg/L	1	04/18/2013 15:48	87638
Methylacrylate	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
Methylene chloride	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Naphthalene	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
n-Butyl acetate		25.0		ND	µg/L	1	04/18/2013 15:48	87638
n-Butylbenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
n-Heptane		20.0		ND	µg/L	1	04/18/2013 15:48	87638
n-Hexane		20.0		ND	µg/L	1	04/18/2013 15:48	87638
Nitrobenzene	NELAP	50.0		ND	µg/L	1	04/18/2013 15:48	87638
n-Propylbenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
o-Xylene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Pentachloroethane	NELAP	20.0		ND	µg/L	1	04/18/2013 15:48	87638
p-Isopropyltoluene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Propionitrile	NELAP	50.0		ND	µg/L	1	04/18/2013 15:48	87638
sec-Butylbenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638

Client: SCI Engineering, Inc.
Work Order: 13040925
Client Project: Stone Mill/2013-0121.21
Report Date: 22-Apr-13
Lab ID: 13040925-001
Client Sample ID: SCI-1
Matrix: AQUEOUS
Collection Date: 04/17/2013 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Styrene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
tert-Amyl methyl ether		2.00		ND	µg/L	1	04/18/2013 15:48	87638
tert-Butyl alcohol		25.0		ND	µg/L	1	04/18/2013 15:48	87638
tert-Butylbenzene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Tetrachloroethene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	04/18/2013 15:48	87638
Toluene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
TPH - GRO (C6 - C10)		500		ND	µg/L	1	04/17/2013 18:58	87604
trans-1,2-Dichloroethene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
trans-1,3-Dichloropropene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
Trichloroethene	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Trichlorofluoromethane	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Vinyl acetate	NELAP	10.0		ND	µg/L	1	04/18/2013 15:48	87638
Vinyl chloride	NELAP	2.00		ND	µg/L	1	04/18/2013 15:48	87638
Xylenes, Total	NELAP	5.00		ND	µg/L	1	04/18/2013 15:48	87638
Surr: 1,2-Dichloroethane-d4		74.7-129		102.2	%REC	1	04/18/2013 15:48	87638
Surr: 4-Bromofluorobenzene		86-119		103.2	%REC	1	04/18/2013 15:48	87638
Surr: Toluene-d8		84.3-114		95.6	%REC	1	04/18/2013 15:48	87638

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87578 SampType: MBLK Units mg/L

SampID: MBLK-87578

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
TPH-DRO (C10 - C21)	0.300		ND						04/18/2013
TPH-ORO (C21 - C35)	0.300		ND						04/18/2013
Surr: 2-Fluorobiphenyl			0.0169	0.0250		67.6	31	109	04/18/2013
Surr: Nitrobenzene-d5			0.0164	0.0250		65.5	38.4	98.5	04/18/2013
Surr: p-Terphenyl-d14			0.0178	0.0250		71.2	42.4	131	04/18/2013

Batch 87578 SampType: LCS Units %REC

SampID: LCS-87578

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Surr: 2-Fluorobiphenyl			0.0153	0.0250		61.1	31	109	04/18/2013
Surr: Nitrobenzene-d5			0.0158	0.0250		63.2	35.7	114	04/18/2013
Surr: p-Terphenyl-d14			0.0180	0.0250		72.0	42.4	131	04/18/2013

Batch 87578 SampType: LCSD Units %REC RPD Limit 0

SampID: LCSD-87578

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Surr: 2-Fluorobiphenyl			0.0145	0.0250		58.1			04/18/2013
Surr: Nitrobenzene-d5			0.0123	0.0250		49.1			04/18/2013
Surr: p-Terphenyl-d14			0.0175	0.0250		69.8			04/18/2013

Batch 87578 SampType: LCS Units mg/L

SampID: LCSDRO-87578

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
TPH-DRO (C10 - C21)	0.300		0.645	1.00	0	64.5	58	131	04/18/2013
Surr: 2-Fluorobiphenyl			0.0156	0.0250		62.4	31	109	04/18/2013
Surr: Nitrobenzene-d5			0.0143	0.0250		57.3	35.7	114	04/18/2013
Surr: p-Terphenyl-d14			0.0174	0.0250		69.6	42.4	131	04/18/2013

Batch 87578 SampType: LCSD Units mg/L RPD Limit 36.2

SampID: LCSDROD-87578

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
TPH-DRO (C10 - C21)	0.300		0.640	1.00	0	64.0	0.6453	0.75	04/18/2013
Surr: 2-Fluorobiphenyl			0.0168	0.0250		67.2			04/18/2013
Surr: Nitrobenzene-d5			0.0160	0.0250		64.0			04/18/2013
Surr: p-Terphenyl-d14			0.0184	0.0250		73.8			04/18/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87604 SampType: MBLK Units µg/L

SampID: MBLK-N130417-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,2-Dibromoethane	2.0		ND						04/17/2013
1,2-Dichloroethane	2.0		ND						04/17/2013
Benzene	2.0		ND						04/17/2013
Diisopropyl ether	2.0		ND						04/17/2013
Ethylbenzene	2.0		ND						04/17/2013
Ethyl-tert-butyl ether	2.0		ND						04/17/2013
m,p-Xylenes	2.0		ND						04/17/2013
Methyl tert-butyl ether	2.0		ND						04/17/2013
Naphthalene	5.0		ND						04/17/2013
o-Xylene	2.0		ND						04/17/2013
tert-Amyl methyl ether	2.0		ND						04/17/2013
tert-Butyl alcohol	25.0		ND						04/17/2013
Toluene	2.0		ND						04/17/2013
Xylenes, Total	5.0		ND						04/17/2013
TPH - GRO (C6 - C10)	500		ND						04/17/2013
Surr: 1,2-Dichloroethane-d4			50.6	50.0		101.3	74.7	129	04/17/2013
Surr: 4-Bromofluorobenzene			50.5	50.0		100.9	86	119	04/17/2013
Surr: Toluene-d8			46.4	50.0		92.7	84.3	114	04/17/2013

Batch 87604 SampType: LCSD Units µg/L RPD Limit 40

SampID: LCSD-N130417-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,2-Dibromoethane	2.0		47.1	50.0	0	94.1	47.34	0.59	04/17/2013
1,2-Dichloroethane	2.0		43.0	50.0	0	85.9	43.45	1.11	04/17/2013
Benzene	2.0		44.4	50.0	0	88.9	44.21	0.50	04/17/2013
Diisopropyl ether	2.0		42.2	50.0	0	84.3	41.67	1.19	04/17/2013
Ethylbenzene	2.0		46.0	50.0	0	92.0	45.43	1.25	04/17/2013
Ethyl-tert-butyl ether	2.0		43.6	50.0	0	87.3	43.92	0.62	04/17/2013
m,p-Xylenes	2.0		93.8	100	0	93.8	92.62	1.30	04/17/2013
Methyl tert-butyl ether	2.0		45.7	50.0	0	91.4	45.90	0.41	04/17/2013
Naphthalene	5.0		51.2	50.0	0	102.5	51.09	0.27	04/17/2013
o-Xylene	2.0		43.8	50.0	0	87.6	43.63	0.34	04/17/2013
tert-Amyl methyl ether	2.0		44.0	50.0	0	88.0	44.56	1.22	04/17/2013
tert-Butyl alcohol	25.0		248	250	0	99.2	249.0	0.44	04/17/2013
Toluene	2.0		44.7	50.0	0	89.5	43.34	3.16	04/17/2013
Xylenes, Total	5.0		138	150	0	91.7	136.2	0.99	04/17/2013
Surr: 1,2-Dichloroethane-d4			48.7	50.0		97.5			04/17/2013
Surr: 4-Bromofluorobenzene			49.3	50.0		98.7			04/17/2013
Surr: Toluene-d8			49.6	50.0		99.2			04/17/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87604 SampType: LCS Units µg/L

SampID: LCS-N130417-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,2-Dibromoethane	2.0		47.3	50.0	0	94.7	83.5	113	04/17/2013
1,2-Dichloroethane	2.0		43.4	50.0	0	86.9	79.8	117	04/17/2013
Benzene	2.0		44.2	50.0	0	88.4	83.5	113	04/17/2013
Diisopropyl ether	2.0		41.7	50.0	0	83.3	83.2	115	04/17/2013
Ethylbenzene	2.0		45.4	50.0	0	90.9	80.7	109	04/17/2013
Ethyl-tert-butyl ether	2.0		43.9	50.0	0	87.8	83.6	113	04/17/2013
m,p-Xylenes	2.0		92.6	100	0	92.6	83.2	113	04/17/2013
Methyl tert-butyl ether	2.0		45.9	50.0	0	91.8	82.8	116	04/17/2013
Naphthalene	5.0		51.1	50.0	0	102.2	64.3	148	04/17/2013
o-Xylene	2.0		43.6	50.0	0	87.3	81.9	111	04/17/2013
tert-Amyl methyl ether	2.0		44.6	50.0	0	89.1	81.5	112	04/17/2013
tert-Butyl alcohol	25.0		249	250	0	99.6	67.8	138	04/17/2013
Toluene	2.0		43.3	50.0	0	86.7	81	110	04/17/2013
Xylenes, Total	5.0		136	150	0	90.8	82.8	112	04/17/2013
Surr: 1,2-Dichloroethane-d4			49.2	50.0		98.4	74.7	129	04/17/2013
Surr: 4-Bromofluorobenzene			49.5	50.0		98.9	86	119	04/17/2013
Surr: Toluene-d8			49.3	50.0		98.7	84.1	114	04/17/2013

h 87604 SampType: LCSGD Units µg/L RPD Limit 20

pID: LCSGD-N130417-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
TPH - GRO (C6 - C10)	500		1970	2000	0	98.3	1925	2.07	04/17/2013
Surr: 1,2-Dichloroethane-d4			50.1	50.0		100.2			04/17/2013
Surr: 4-Bromofluorobenzene			51.1	50.0		102.1			04/17/2013
Surr: Toluene-d8			49.0	50.0		98.0			04/17/2013

Batch 87604 SampType: LCSG Units µg/L

SampID: LCSG-N130417-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
TPH - GRO (C6 - C10)	500		1920	2000	0	96.2	70	130	04/17/2013
Surr: 1,2-Dichloroethane-d4			49.1	50.0		98.2	74.7	129	04/17/2013
Surr: 4-Bromofluorobenzene			51.1	50.0		102.1	86	119	04/17/2013
Surr: Toluene-d8			49.3	50.0		98.6	84.3	114	04/17/2013

Client: SCI Engineering, Inc.

Work Order: 13040925

Client Project: Stone Mill/2013-0121.21

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87604 SampType: MS Units µg/L

SampID: 13040864-003EMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	2.0		34.7	43.0	0	80.6	62.5	121	04/17/2013
Ethylbenzene	2.0		42.1	43.0	0	97.9	74.4	130	04/17/2013
m,p-Xylenes	2.0		41.7	43.0	0	97.0	70.5	126	04/17/2013
o-Xylene	2.0		39.1	43.0	0	90.9	71.2	124	04/17/2013
Toluene	2.0		35.9	43.0	0	83.6	69.5	118	04/17/2013
Xylenes, Total	5.0		80.8	86.0	0	94.0	71.1	125	04/17/2013
Surr: 1,2-Dichloroethane-d4			50.2	50.0		100.3	74.7	129	04/17/2013
Surr: 4-Bromofluorobenzene			50.2	50.0		100.3	86	119	04/17/2013
Surr: Toluene-d8			48.2	50.0		96.4	84.3	114	04/17/2013

Batch 87604 SampType: MSD Units µg/L RPD Limit 20

SampID: 13040864-003EMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	2.0		33.9	43.0	0	78.9	34.66	2.19	04/17/2013
Ethylbenzene	2.0		42.6	43.0	0	99.1	42.10	1.20	04/17/2013
m,p-Xylenes	2.0		40.7	43.0	0	94.6	41.71	2.55	04/17/2013
o-Xylene	2.0		39.5	43.0	0	91.8	39.10	0.97	04/17/2013
ene	2.0		35.7	43.0	0	83.1	35.94	0.61	04/17/2013
enes, Total	5.0		80.1	86.0	0	93.2	80.81	0.83	04/17/2013
Surr: 1,2-Dichloroethane-d4			49.1	50.0		98.1			04/17/2013
Surr: 4-Bromofluorobenzene			50.8	50.0		101.5			04/17/2013
Surr: Toluene-d8			47.3	50.0		94.5			04/17/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87638 SampType: MBLK Units µg/L

SampID: MBLK-T130418-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	5.0		ND						04/18/2013
1,1,1-Trichloroethane	5.0		ND						04/18/2013
1,1,2,2-Tetrachloroethane	5.0		ND						04/18/2013
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0		ND						04/18/2013
1,1,2-Trichloroethane	5.0		ND						04/18/2013
1,1-Dichloro-2-propanone	50.0		ND						04/18/2013
1,1-Dichloroethane	5.0		ND						04/18/2013
1,1-Dichloroethene	5.0		ND						04/18/2013
1,1-Dichloropropene	5.0		ND						04/18/2013
1,2,3-Trichlorobenzene	5.0		ND						04/18/2013
1,2,3-Trichloropropane	5.0		ND						04/18/2013
1,2,3-Trimethylbenzene	5.0		ND						04/18/2013
1,2,4-Trichlorobenzene	5.0		ND						04/18/2013
1,2,4-Trimethylbenzene	5.0		ND						04/18/2013
1,2-Dibromo-3-chloropropane	5.0		ND						04/18/2013
1,2-Dibromoethane	5.0		ND						04/18/2013
1,2-Dichlorobenzene	5.0		ND						04/18/2013
1,2-Dichloroethane	5.0		ND						04/18/2013
?-Dichloropropane	5.0		ND						04/18/2013
3,5-Trimethylbenzene	5.0		ND						04/18/2013
1,3-Dichlorobenzene	5.0		ND						04/18/2013
1,3-Dichloropropane	5.0		ND						04/18/2013
1,4-Dichlorobenzene	5.0		ND						04/18/2013
1-Chlorobutane	5.0		ND						04/18/2013
2,2-Dichloropropane	5.0		ND						04/18/2013
2-Butanone	25.0		ND						04/18/2013
2-Chloroethyl vinyl ether	20.0		ND						04/18/2013
2-Chlorotoluene	5.0		ND						04/18/2013
2-Hexanone	25.0		ND						04/18/2013
2-Nitropropane	50.0		ND						04/18/2013
4-Chlorotoluene	5.0		ND						04/18/2013
4-Methyl-2-pentanone	25.0		ND						04/18/2013
Acetone	25.0		ND						04/18/2013
Acetonitrile	50.0		ND						04/18/2013
Acrolein	100		ND						04/18/2013
Acrylonitrile	5.0		ND						04/18/2013
Allyl chloride	5.0		ND						04/18/2013
Benzene	2.0		ND						04/18/2013
Bromobenzene	5.0		ND						04/18/2013
Bromochloromethane	5.0		ND						04/18/2013
Bromodichloromethane	5.0		ND						04/18/2013
Bromoform	5.0		ND						04/18/2013
Bromomethane	10.0		ND						04/18/2013
Carbon disulfide	5.0		ND						04/18/2013
Carbon tetrachloride	5.0		ND						04/18/2013
Chlorobenzene	5.0		ND						04/18/2013
Chloroethane	10.0		ND						04/18/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87638 SampType: MBLK Units µg/L

SampID: MBLK-T130418-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloroform	5.0		ND						04/18/2013
Chloromethane	10.0		ND						04/18/2013
Chloroprene	20.0		ND						04/18/2013
cis-1,2-Dichloroethene	5.0		ND						04/18/2013
cis-1,3-Dichloropropene	5.0		ND						04/18/2013
cis-1,4-Dichloro-2-butene	5.0		ND						04/18/2013
Cyclohexanone	50.0		ND						04/18/2013
Dibromochloromethane	5.0		ND						04/18/2013
Dibromomethane	5.0		ND						04/18/2013
Dichlorodifluoromethane	10.0		ND						04/18/2013
Ethyl acetate	10.0		ND						04/18/2013
Ethyl ether	5.0		ND						04/18/2013
Ethyl methacrylate	5.0		ND						04/18/2013
Ethylbenzene	5.0		ND						04/18/2013
Hexachlorobutadiene	5.0		ND						04/18/2013
Hexachloroethane	10.0		ND						04/18/2013
Iodomethane	5.0		ND						04/18/2013
Isopropylbenzene	5.0		ND						04/18/2013
Xylenes	5.0		ND						04/18/2013
Methacrylonitrile	10.0		ND						04/18/2013
Methyl Methacrylate	5.0		ND						04/18/2013
Methyl tert-butyl ether	2.0		ND						04/18/2013
Methylacrylate	10.0		ND						04/18/2013
Methylene chloride	5.0		ND						04/18/2013
Naphthalene	10.0		ND						04/18/2013
n-Butyl acetate	25.0		ND						04/18/2013
n-Butylbenzene	5.0		ND						04/18/2013
n-Heptane	20.0		ND						04/18/2013
n-Hexane	20.0		ND						04/18/2013
Nitrobenzene	50.0		ND						04/18/2013
n-Propylbenzene	5.0		ND						04/18/2013
o-Xylene	5.0		ND						04/18/2013
Pentachloroethane	20.0		ND						04/18/2013
p-Isopropyltoluene	5.0		ND						04/18/2013
Propionitrile	50.0		ND						04/18/2013
sec-Butylbenzene	5.0		ND						04/18/2013
Styrene	5.0		ND						04/18/2013
tert-Butylbenzene	5.0		ND						04/18/2013
Tetrachloroethene	5.0		ND						04/18/2013
Tetrahydrofuran	20.0		ND						04/18/2013
Toluene	5.0		ND						04/18/2013
trans-1,2-Dichloroethene	5.0		ND						04/18/2013
trans-1,3-Dichloropropene	5.0		ND						04/18/2013
trans-1,4-Dichloro-2-butene	10.0		ND						04/18/2013
Trichloroethene	5.0		ND						04/18/2013
Trichlorofluoromethane	5.0		ND						04/18/2013
Vinyl acetate	10.0		ND						04/18/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87638 SampType: MBLK Units µg/L

SampID: MBLK-T130418-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Vinyl chloride	2.0		ND						04/18/2013
Xylenes, Total	5.0		ND						04/18/2013
1,3-Dichloropropene, Total	5.0		ND						04/18/2013
1,4-Dichloro-2-butene, Total	10.0		ND						04/18/2013
1,2-Dichloroethene, Total	5.0		ND						04/18/2013
Surr: 1,2-Dichloroethane-d4			51.4	50.0		102.8	74.7	129	04/18/2013
Surr: 4-Bromofluorobenzene			51.8	50.0		103.6	86	119	04/18/2013
Surr: Toluene-d8			48.0	50.0		96.0	84.3	114	04/18/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87638 SampType: LCSD Units µg/L RPD Limit 40

SampID: LCSD-T130418-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,1,1,2-Tetrachloroethane	5.0		49.4	50.0	0	98.7	50.17	1.65	04/18/2013
1,1,1-Trichloroethane	5.0		48.8	50.0	0	97.5	50.79	4.06	04/18/2013
1,1,2,2-Tetrachloroethane	5.0		41.5	50.0	0	83.0	44.98	8.05	04/18/2013
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0		47.2	50.0	0	94.5	49.26	4.21	04/18/2013
1,1,2-Trichloroethane	5.0		44.3	50.0	0	88.6	46.11	3.96	04/18/2013
1,1-Dichloro-2-propanone	50.0		119	125	0	94.8	139.1	15.98	04/18/2013
1,1-Dichloroethane	5.0		45.1	50.0	0	90.2	47.11	4.36	04/18/2013
1,1-Dichloroethene	5.0		45.7	50.0	0	91.4	47.84	4.60	04/18/2013
1,1-Dichloropropene	5.0		44.0	50.0	0	88.0	45.68	3.79	04/18/2013
1,2,3-Trichlorobenzene	5.0		46.8	50.0	0	93.6	49.32	5.24	04/18/2013
1,2,3-Trichloropropane	5.0		44.0	50.0	0	88.1	47.96	8.54	04/18/2013
1,2,3-Trimethylbenzene	5.0		48.1	50.0	0	96.2	50.29	4.43	04/18/2013
1,2,4-Trichlorobenzene	5.0		44.5	50.0	0	89.1	46.46	4.22	04/18/2013
1,2,4-Trimethylbenzene	5.0		45.2	50.0	0	90.5	47.69	5.27	04/18/2013
1,2-Dibromo-3-chloropropane	5.0		45.5	50.0	0	91.0	51.65	12.62	04/18/2013
1,2-Dibromoethane	5.0		46.2	50.0	0	92.3	47.50	2.86	04/18/2013
1,2-Dichlorobenzene	5.0		45.1	50.0	0	90.2	46.95	4.02	04/18/2013
1,2-Dichloroethane	5.0		44.6	50.0	0	89.2	46.28	3.70	04/18/2013
jchloropropane	5.0		43.4	50.0	0	86.8	44.83	3.29	04/18/2013
,,,-Trimethylbenzene	5.0		46.0	50.0	0	91.9	48.40	5.19	04/18/2013
1,3-Dichlorobenzene	5.0		45.1	50.0	0	90.2	47.15	4.40	04/18/2013
1,3-Dichloropropane	5.0		44.8	50.0	0	89.6	46.60	3.96	04/18/2013
1,4-Dichlorobenzene	5.0		45.0	50.0	0	89.9	47.07	4.56	04/18/2013
1-Chlorobutane	5.0		45.4	50.0	0	90.9	47.46	4.37	04/18/2013
2,2-Dichloropropane	5.0		42.8	50.0	0	85.5	45.47	6.12	04/18/2013
2-Butanone	25.0		107	125	0	85.4	123.1	14.27	04/18/2013
2-Chloroethyl vinyl ether	20.0		44.8	50.0	0	89.6	47.29	5.45	04/18/2013
2-Chlorotoluene	5.0		44.3	50.0	0	88.7	46.41	4.56	04/18/2013
2-Hexanone	25.0		109	125	0	87.4	122.3	11.21	04/18/2013
2-Nitropropane	50.0		519	500	0	103.8	578.2	10.77	04/18/2013
4-Chlorotoluene	5.0		45.2	50.0	0	90.3	47.24	4.52	04/18/2013
4-Methyl-2-pentanone	25.0		111	125	0	89.1	123.4	10.27	04/18/2013
Acetone	25.0		111	125	0	88.5	125.6	12.69	04/18/2013
Acetonitrile	50.0		464	500	0	92.8	531.4	13.57	04/18/2013
Acrolein	100		325	500	0	65.1	366.4	11.86	04/18/2013
Acrylonitrile	5.0		46.3	50.0	0	92.6	51.59	10.81	04/18/2013
Allyl chloride	5.0		43.7	50.0	0	87.4	45.08	3.15	04/18/2013
Benzene	2.0		45.1	50.0	0	90.2	47.35	4.85	04/18/2013
Bromobenzene	5.0		42.5	50.0	0	85.1	44.34	4.14	04/18/2013
Bromochloromethane	5.0		47.4	50.0	0	94.9	49.09	3.42	04/18/2013
Bromodichloromethane	5.0		48.0	50.0	0	96.0	49.95	3.94	04/18/2013
Bromoform	5.0		53.8	50.0	0	107.6	55.12	2.41	04/18/2013
Bromomethane	10.0		47.2	50.0	0	94.3	50.37	6.60	04/18/2013
Carbon disulfide	5.0		46.6	50.0	0	93.1	49.05	5.23	04/18/2013
on tetrachloride	5.0		51.0	50.0	0	102.0	52.81	3.47	04/18/2013
obenzene	5.0		45.7	50.0	0	91.5	46.88	2.46	04/18/2013
Chloroethane	10.0		43.8	50.0	0	87.5	47.31	7.77	04/18/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87638 SampType: LCSD Units µg/L RPD Limit 40

SampID: LCSD-T130418-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloroform	5.0		46.6	50.0	0	93.2	48.09	3.13	04/18/2013
Chloromethane	10.0		50.6	50.0	0	101.3	53.51	5.51	04/18/2013
Chloroprene	20.0		48.7	50.0	0	97.5	50.62	3.78	04/18/2013
cis-1,2-Dichloroethene	5.0		46.7	50.0	0	93.5	48.38	3.45	04/18/2013
cis-1,3-Dichloropropene	5.0		46.2	50.0	0	92.5	47.62	2.92	04/18/2013
cis-1,4-Dichloro-2-butene	5.0		38.6	50.0	0	77.3	40.90	5.71	04/18/2013
Cyclohexanone	50.0		417	500	0	83.3	498.5	17.89	04/18/2013
Dibromochloromethane	5.0		50.2	50.0	0	100.4	51.35	2.30	04/18/2013
Dibromomethane	5.0		44.3	50.0	0	88.5	46.26	4.40	04/18/2013
Dichlorodifluoromethane	10.0		62.2	50.0	0	124.4	64.89	4.25	04/18/2013
Ethyl acetate	10.0		43.3	50.0	0	86.5	47.41	9.13	04/18/2013
Ethyl ether	5.0		43.7	50.0	0	87.3	45.83	4.83	04/18/2013
Ethyl methacrylate	5.0		47.1	50.0	0	94.2	49.84	5.65	04/18/2013
Ethylbenzene	5.0		46.0	50.0	0	92.0	47.10	2.32	04/18/2013
Hexachlorobutadiene	5.0		49.2	50.0	0	98.4	52.97	7.34	04/18/2013
Hexachloroethane	10.0		49.6	50.0	0	99.3	52.02	4.68	04/18/2013
Iodomethane	5.0		66.6	50.0	0	133.3	69.54	4.26	04/18/2013
Isopropylbenzene	5.0		47.8	50.0	0	95.5	49.27	3.11	04/18/2013
p-Xylenes	5.0		92.8	100	0	92.8	95.16	2.47	04/18/2013
Methacrylonitrile	10.0		43.2	50.0	0	86.3	47.22	9.01	04/18/2013
Methyl Methacrylate	5.0		43.7	50.0	0	87.3	47.00	7.37	04/18/2013
Methyl tert-butyl ether	2.0		45.9	50.0	0	91.8	48.04	4.56	04/18/2013
Methylacrylate	10.0		45.0	50.0	0	90.0	49.93	10.41	04/18/2013
Methylene chloride	5.0		44.1	50.0	0	88.2	45.64	3.39	04/18/2013
Naphthalene	10.0		48.4	50.0	0	96.9	51.73	6.57	04/18/2013
n-Butyl acetate	25.0		44.0	50.0	0	88.1	47.56	7.69	04/18/2013
n-Butylbenzene	5.0		43.0	50.0	0	86.1	46.40	7.49	04/18/2013
n-Heptane	20.0		39.7	50.0	0	79.5	41.61	4.60	04/18/2013
n-Hexane	20.0		41.1	50.0	0	82.3	43.19	4.86	04/18/2013
Nitrobenzene	50.0		618	500	0	123.7	719.4	15.10	04/18/2013
n-Propylbenzene	5.0		44.5	50.0	0	89.0	46.83	5.15	04/18/2013
o-Xylene	5.0		46.6	50.0	0	93.3	47.82	2.50	04/18/2013
Pentachloroethane	20.0		50.4	50.0	0	100.9	52.61	4.19	04/18/2013
p-Isopropyltoluene	5.0		44.2	50.0	0	88.5	47.74	7.61	04/18/2013
Propionitrile	50.0		443	500	0	88.5	502.0	12.57	04/18/2013
sec-Butylbenzene	5.0		44.9	50.0	0	89.9	47.64	5.86	04/18/2013
Styrene	5.0		48.8	50.0	0	97.7	49.59	1.54	04/18/2013
tert-Butylbenzene	5.0		46.0	50.0	0	92.0	48.24	4.71	04/18/2013
Tetrachloroethene	5.0		48.4	50.0	0	96.8	51.03	5.29	04/18/2013
Tetrahydrofuran	20.0		40.7	50.0	0	81.4	46.27	12.86	04/18/2013
Toluene	5.0		45.6	50.0	0	91.3	46.89	2.68	04/18/2013
trans-1,2-Dichloroethene	5.0		45.4	50.0	0	90.7	47.15	3.85	04/18/2013
trans-1,3-Dichloropropene	5.0		46.3	50.0	0	92.6	48.29	4.19	04/18/2013
trans-1,4-Dichloro-2-butene	10.0		36.0	50.0	0	72.0	39.81	10.00	04/18/2013
Trichloroethene	5.0		47.6	50.0	0	95.1	49.65	4.30	04/18/2013
Trichlorofluoromethane	5.0		54.6	50.0	0	109.1	57.09	4.55	04/18/2013
Vinyl acetate	10.0		46.2	50.0	0	92.4	48.28	4.42	04/18/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87638 SampType: LCSD Units µg/L RPD Limit 40

SampID: LCSD-T130418-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Vinyl chloride	2.0		45.2	50.0	0	90.4	48.22	6.42	04/18/2013
Xylenes, Total	5.0		139	150	0	93.0	143.0	2.48	04/18/2013
1,3-Dichloropropene, Total	5.0		92.6	100	0	92.6	95.91	3.55	04/18/2013
1,4-Dichloro-2-butene, Total	10.0		74.6	100	0	74.6	80.71	7.80	04/18/2013
1,2-Dichloroethene, Total	5.0		92.1	100	0	92.1	95.53	3.65	04/18/2013
Surr: 1,2-Dichloroethane-d4			51.0	50.0		102.0			04/18/2013
Surr: 4-Bromofluorobenzene			52.1	50.0		104.2			04/18/2013
Surr: Toluene-d8			49.1	50.0		98.1			04/18/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87638 SampType: LCS Units µg/L

SampID: LCS-T130418-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	5.0		50.2	50.0	0	100.3	82.5	112	04/18/2013
1,1,1-Trichloroethane	5.0		50.8	50.0	0	101.6	74.2	118	04/18/2013
1,1,2,2-Tetrachloroethane	5.0		45.0	50.0	0	90.0	73.5	121	04/18/2013
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0		49.3	50.0	0	98.5	64.8	116	04/18/2013
1,1,2-Trichloroethane	5.0		46.1	50.0	0	92.2	82.5	112	04/18/2013
1,1-Dichloro-2-propanone	50.0		139	125	0	111.3	73.4	132	04/18/2013
1,1-Dichloroethane	5.0		47.1	50.0	0	94.2	82.4	112	04/18/2013
1,1-Dichloroethene	5.0		47.8	50.0	0	95.7	74.5	114	04/18/2013
1,1-Dichloropropene	5.0		45.7	50.0	0	91.4	78.9	113	04/18/2013
1,2,3-Trichlorobenzene	5.0		49.3	50.0	0	98.6	78.8	120	04/18/2013
1,2,3-Trichloropropane	5.0		48.0	50.0	0	95.9	64.7	122	04/18/2013
1,2,3-Trimethylbenzene	5.0		50.3	50.0	0	100.6	84.9	123	04/18/2013
1,2,4-Trichlorobenzene	5.0		46.5	50.0	0	92.9	72.3	125	04/18/2013
1,2,4-Trimethylbenzene	5.0		47.7	50.0	0	95.4	82.2	115	04/18/2013
1,2-Dibromo-3-chloropropane	5.0		51.6	50.0	0	103.3	77.1	122	04/18/2013
1,2-Dibromoethane	5.0		47.5	50.0	0	95.0	83.5	113	04/18/2013
1,2-Dichlorobenzene	5.0		47.0	50.0	0	93.9	81.8	111	04/18/2013
1,2-Dichloroethane	5.0		46.3	50.0	0	92.6	79.8	117	04/18/2013
2-Dichloropropane	5.0		44.8	50.0	0	89.7	84.6	114	04/18/2013
,5-Trimethylbenzene	5.0		48.4	50.0	0	96.8	81.8	114	04/18/2013
1,3-Dichlorobenzene	5.0		47.2	50.0	0	94.3	83	112	04/18/2013
1,3-Dichloropropane	5.0		46.6	50.0	0	93.2	80.3	113	04/18/2013
1,4-Dichlorobenzene	5.0		47.1	50.0	0	94.1	81.4	110	04/18/2013
1-Chlorobutane	5.0		47.5	50.0	0	94.9	75.2	114	04/18/2013
2,2-Dichloropropane	5.0		45.5	50.0	0	90.9	67	122	04/18/2013
2-Butanone	25.0		123	125	0	98.5	75.4	130	04/18/2013
2-Chloroethyl vinyl ether	20.0		47.3	50.0	0	94.6	20	133	04/18/2013
2-Chlorotoluene	5.0		46.4	50.0	0	92.8	78.9	113	04/18/2013
2-Hexanone	25.0		122	125	0	97.8	71.8	129	04/18/2013
2-Nitropropane	50.0		578	500	0	115.6	80.9	132	04/18/2013
4-Chlorotoluene	5.0		47.2	50.0	0	94.5	78.6	113	04/18/2013
4-Methyl-2-pentanone	25.0		123	125	0	98.7	78.7	126	04/18/2013
Acetone	25.0		126	125	0	100.5	67.1	133	04/18/2013
Acetonitrile	50.0		531	500	0	106.3	70.8	135	04/18/2013
Acrolein	100		366	500	0	73.3	27	145	04/18/2013
Acrylonitrile	5.0		51.6	50.0	0	103.2	80	127	04/18/2013
Allyl chloride	5.0		45.1	50.0	0	90.2	76.6	123	04/18/2013
Benzene	2.0		47.4	50.0	0	94.7	83.5	113	04/18/2013
Bromobenzene	5.0		44.3	50.0	0	88.7	75.4	122	04/18/2013
Bromochloromethane	5.0		49.1	50.0	0	98.2	85.2	116	04/18/2013
Bromodichloromethane	5.0		50.0	50.0	0	99.9	85.1	118	04/18/2013
Bromoform	5.0		55.1	50.0	0	110.2	82.2	117	04/18/2013
Bromomethane	10.0		50.4	50.0	0	100.7	51.5	150	04/18/2013
Carbon disulfide	5.0		49.0	50.0	0	98.1	70.6	113	04/18/2013
Carbon tetrachloride	5.0		52.8	50.0	0	105.6	71.6	122	04/18/2013
lorobenzene	5.0		46.9	50.0	0	93.8	81.6	110	04/18/2013
nloroethane	10.0		47.3	50.0	0	94.6	70.8	129	04/18/2013

Client: SCI Engineering, Inc.

Work Order: 13040925

Client Project: Stone Mill/2013-0121.21

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87638 SampType: LCS Units µg/L

SampID: LCS-T130418-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloroform	5.0		48.1	50.0	0	96.2	82.6	112	04/18/2013
Chloromethane	10.0		53.5	50.0	0	107.0	49.4	128	04/18/2013
Chloroprene	20.0		50.6	50.0	0	101.2	75.7	112	04/18/2013
cis-1,2-Dichloroethene	5.0		48.4	50.0	0	96.8	84.2	114	04/18/2013
cis-1,3-Dichloropropene	5.0		47.6	50.0	0	95.2	84.8	117	04/18/2013
cis-1,4-Dichloro-2-butene	5.0		40.9	50.0	0	81.8	48.1	129	04/18/2013
Cyclohexanone	50.0		499	500	0	99.7	48.4	154	04/18/2013
Dibromochloromethane	5.0		51.4	50.0	0	102.7	84.8	115	04/18/2013
Dibromomethane	5.0		46.3	50.0	0	92.5	84.5	114	04/18/2013
Dichlorodifluoromethane	10.0		64.9	50.0	0	129.8	25.1	141	04/18/2013
Ethyl acetate	10.0		47.4	50.0	0	94.8	68.3	123	04/18/2013
Ethyl ether	5.0		45.8	50.0	0	91.7	79.3	109	04/18/2013
Ethyl methacrylate	5.0		49.8	50.0	0	99.7	81.6	117	04/18/2013
Ethylbenzene	5.0		47.1	50.0	0	94.2	80.7	109	04/18/2013
Hexachlorobutadiene	5.0		53.0	50.0	0	105.9	72.7	115	04/18/2013
Hexachloroethane	10.0		52.0	50.0	0	104.0	72.1	112	04/18/2013
Iodomethane	5.0		69.5	50.0	0	139.1	39.1	151	04/18/2013
Isopropylbenzene	5.0		49.3	50.0	0	98.5	82.9	112	04/18/2013
Xylenes	5.0		95.2	100	0	95.2	83.2	113	04/18/2013
Methacrylonitrile	10.0		47.2	50.0	0	94.4	81.7	121	04/18/2013
Methyl Methacrylate	5.0		47.0	50.0	0	94.0	81.2	121	04/18/2013
Methyl tert-butyl ether	2.0		48.0	50.0	0	96.1	82.8	116	04/18/2013
Methylacrylate	10.0		49.9	50.0	0	99.9	72.6	131	04/18/2013
Methylene chloride	5.0		45.6	50.0	0	91.3	81.1	110	04/18/2013
Naphthalene	10.0		51.7	50.0	0	103.5	64.3	148	04/18/2013
n-Butyl acetate	25.0		47.6	50.0	0	95.1	73	120	04/18/2013
n-Butylbenzene	5.0		46.4	50.0	0	92.8	77.7	121	04/18/2013
n-Heptane	20.0		41.6	50.0	0	83.2	53.8	123	04/18/2013
n-Hexane	20.0		43.2	50.0	0	86.4	56	123	04/18/2013
Nitrobenzene	50.0		719	500	0	143.9	32.3	159	04/18/2013
n-Propylbenzene	5.0		46.8	50.0	0	93.7	81.3	112	04/18/2013
o-Xylene	5.0		47.8	50.0	0	95.6	81.9	111	04/18/2013
Pentachloroethane	20.0		52.6	50.0	0	105.2	72	121	04/18/2013
p-Isopropyltoluene	5.0		47.7	50.0	0	95.5	83.4	118	04/18/2013
Propionitrile	50.0		502	500	0	100.4	76.8	136	04/18/2013
sec-Butylbenzene	5.0		47.6	50.0	0	95.3	80.5	115	04/18/2013
Styrene	5.0		49.6	50.0	0	99.2	85.6	117	04/18/2013
tert-Butylbenzene	5.0		48.2	50.0	0	96.5	76.3	114	04/18/2013
Tetrachloroethene	5.0		51.0	50.0	0	102.1	73.8	115	04/18/2013
Tetrahydrofuran	20.0		46.3	50.0	0	92.5	58.8	132	04/18/2013
Toluene	5.0		46.9	50.0	0	93.8	81	110	04/18/2013
trans-1,2-Dichloroethene	5.0		47.2	50.0	0	94.3	79.8	116	04/18/2013
trans-1,3-Dichloropropene	5.0		48.3	50.0	0	96.6	84.1	114	04/18/2013
trans-1,4-Dichloro-2-butene	10.0		39.8	50.0	0	79.6	57.7	124	04/18/2013
Trichloroethene	5.0		49.6	50.0	0	99.3	82.6	113	04/18/2013
Trichlorofluoromethane	5.0		57.1	50.0	0	114.2	62.2	124	04/18/2013
Vinyl acetate	10.0		48.3	50.0	0	96.6	81.1	121	04/18/2013

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 87638 SampType: LCS Units µg/L

SampID: LCS-T130418-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Vinyl chloride	2.0		48.2	50.0	0	96.4	57	124	04/18/2013
Xylenes, Total	5.0		143	150	0	95.3	82.8	112	04/18/2013
1,3-Dichloropropene, Total	5.0		95.9	100	0	95.9	85	115	04/18/2013
1,4-Dichloro-2-butene, Total	10.0		80.7	100	0	80.7	54	125	04/18/2013
1,2-Dichloroethene, Total	5.0		95.5	100	0	95.5	83.6	113	04/18/2013
Surr: 1,2-Dichloroethane-d4			51.2	50.0		102.4	74.7	129	04/18/2013
Surr: 4-Bromofluorobenzene			51.9	50.0		103.8	86	119	04/18/2013
Surr: Toluene-d8			48.7	50.0		97.4	84.1	114	04/18/2013

Batch 87638 SampType: MS Units µg/L

SampID: 13040920-003AMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1-Dichloroethene	5.0		28.8	38.0	0	75.9	35.7	136	04/18/2013
Benzene	2.0		35.1	38.0	0	92.3	62.5	121	04/18/2013
Chlorobenzene	5.0		38.5	38.0	0	101.3	78.6	114	04/18/2013
Ethylbenzene	5.0		37.7	38.0	0	99.3	74.4	130	04/18/2013
m,p-Xylenes	5.0		34.8	38.0	0	91.6	70.5	126	04/18/2013
o-Xylene	5.0		35.0	38.0	0	92.0	71.2	124	04/18/2013
'uene	5.0		34.4	38.0	0	90.6	69.5	118	04/18/2013
,ichloroethene	5.0		38.6	38.0	0	101.7	69.4	117	04/18/2013
Xylenes, Total	5.0		69.8	76.0	0	91.8	71.1	125	04/18/2013
Surr: 1,2-Dichloroethane-d4			51.0	50.0		101.9	74.7	129	04/18/2013
Surr: 4-Bromofluorobenzene			50.7	50.0		101.3	86	119	04/18/2013
Surr: Toluene-d8			46.8	50.0		93.7	84.3	114	04/18/2013

Batch 87638 SampType: MSD Units µg/L RPD Limit 20

SampID: 13040920-003AMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
1,1-Dichloroethene	5.0		28.5	38.0	0	74.9	28.83	1.22	04/18/2013
Benzene	2.0		35.0	38.0	0	92.1	35.07	0.26	04/18/2013
Chlorobenzene	5.0		39.0	38.0	0	102.7	38.51	1.29	04/18/2013
Ethylbenzene	5.0		37.6	38.0	0	98.8	37.74	0.48	04/18/2013
m,p-Xylenes	5.0		34.8	38.0	0	91.7	34.81	0.09	04/18/2013
o-Xylene	5.0		34.8	38.0	0	91.6	34.96	0.49	04/18/2013
Toluene	5.0		34.7	38.0	0	91.3	34.42	0.75	04/18/2013
Trichloroethene	5.0		38.9	38.0	0	102.4	38.65	0.67	04/18/2013
Xylenes, Total	5.0		69.6	76.0	0	91.6	69.77	0.20	04/18/2013
Surr: 1,2-Dichloroethane-d4			51.4	50.0		102.8			04/18/2013
Surr: 4-Bromofluorobenzene			51.3	50.0		102.6			04/18/2013
Surr: Toluene-d8			46.8	50.0		93.7			04/18/2013

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13040925

Report Date: 22-Apr-13

Carrier: Kendrick Prejean

Received By: SRH

Completed by: Emily E. Pohlman
On: 17-Apr-13

Reviewed by: Michael L. Austin
On: 18-Apr-13

Pages to follow: Chain of custody [1] Extra pages included [0]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 2.4
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

,ater – at least one vial per sample has zero headspace?	Yes ☑	No ☐	No VOA vials ☐
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 13 0925

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	SCI Engineering, Inc.
Address:	130 Point West Boulevard
City / State / Zip	St. Charles, MO 63301
Contact:	Ben Butterfield
Phone:	(636) 949-8200
E-Mail:	bbutterfield@sciengineering.com
Fax:	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 2.7 °C

Preserved in: ☐ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes: 2040 headspace EBP 4/17/13

Client Comments:

~~Analyze/report salinity as conductivity of soil.~~

MEET MRBCA DTL's

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☒ Yes ☐ No

Project Name/Number	Sample Collector's Name
Stone Mill/2013-0121.21	BEN BUTTERFIELD

Results Requested: ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions: B-0121.21

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	INDICATE ANALYSIS REQUESTED: DRO ORO	Salinity	VOCs with GRO
13040925-001	SCI-1	4/17/13 1200	X							2	X					X		2

Teklab, Inc.
Courier Pick Up

Relinquished By	Date/Time	Received By	Date/Time
Ben Butterfield	4/17/13 14:15	[illegible]	4-17-13 14:15
[illegible]	4-17-13 17:05	Stephanie Haynes	4/17/13 17:05

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 14513

April 23, 2013

Ben Butterfield
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (618) 206-3028
FAX: (636) 949-8269

RE: Stone Mill/2013-0121.21

WorkOrder: 13041091

Dear Ben Butterfield:

TEKLAB, INC received 1 sample on 4/15/2013 4:35:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com

Client: SCI Engineering, Inc.
Client Project: Stone Mill/2013-0121.21

Work Order: 13041091
Report Date: 23-Apr-13

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Quality Control Results	6
Chain of Custody	Appended

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13041091

Report Date: 23-Apr-13

Abbr Definition

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.

DNI Did not ignite

DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TNTC Too numerous to count (> 200 CFU)

Qualifiers

\# - Unknown hydrocarbon

E - Value above quantitation range

M - Manual Integration used to determine area response

R - RPD outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

B - Analyte detected in associated Method Blank

H - Holding times exceeded

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside recovery limits

Teklab, Inc.
Environmental Laboratory

Case Narrative

http://www.teklabinc.com/

Client: SCI Engineering, Inc.
Client Project: Stone Mill/2013-0121.21

Work Order: 13041091
Report Date: 23-Apr-13

Cooler Receipt Temp: °C

Additional analysis to WO# 13040743.

Per Ben Butterfield, analyze SCI-2 (jar 2 of 2) for conductivity. EAH 4/22/13

Locations and Accreditations

Collinsville
Address 5445 Horseshoe Lake Road, Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield
Address 3920 Pintail Dr, Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City
Address 8421 Nieman Road, Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2014	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2014	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2013	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2013	Springfield
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2013	Collinsville
Arkansas	ADEQ	88-0966		3/14/2014	Collinsville
Illinois	IDPH	17584		4/30/2013	Collinsville
Kentucky	UST	0073		4/5/2014	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2013	Collinsville

Client: SCI Engineering, Inc.
Client Project: Stone Mill/2013-0121.21
Lab ID: 13041091-001
Matrix: SOLID

Work Order: 13041091
Report Date: 23-Apr-13
Client Sample ID: SCI-2 (Jar 2 of 2)
Collection Date: 04/15/2013 10:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 2-78-054 METHOD 3.2.18.1								
Specific Conductance, Solid		10		2860	µmhos/cm	1	04/22/2013 13:54	R176247

Client: SCI Engineering, Inc.

Client Project: Stone Mill/2013-0121.21

Work Order: 13041091

Report Date: 23-Apr-13

EPA 600 2-78-054 METHOD 3.2.18.1

Batch R176247 SampType: LCS Units µmhos/cm

SampID: LCS1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Specific Conductance, Solid	10		6610	6670	0	99.1	90	110	04/22/2013

Batch R176247 SampType: LCS Units µmhos/cm

SampID: LCS-R176247

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Specific Conductance, Solid	10		1440	1410	0	102.0	90	110	04/22/2013

Batch R176247 SampType: DUP Units µmhos/cm RPD Limit 10

SampID: 13041091-001ADUP

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Specific Conductance, Solid	10		2750				2860	3.92	04/22/2013

TEKLAB, INC
5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
TEL: (618) 344-1004
FAX: (618) 344-1005

CHAIN-OF-CUSTODY RECORD

ic 41091 -

WorkOrder: 13041091

Client:
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301

TEL: (636) 949-8200
FAX: (636) 949-8269
Project: Stone Mill/2013-0121.21

One Day TAT

22-Apr-13

Sample ID	ClientSampID	Matrix	Date Collected	Bottle	Requested Tests EPA2-78-054 (S)
13041091-001	SCI-2	Solid	4/15/2013 10:00:00 AM		A

Comments: Per Ben Butterfield, analyze SCI-2 (the previously unused jar -2 of 2) for conductivity. EAH 4/22/13.

	Date/Time		Date/Time
Relinquished by:		Received by:	4/22/13
Relinquished by:		Received by:	
Relinquished by:		Received by:	

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other