

# PUBLIC NOTICE



**US Army Corps  
of Engineers  
Kansas City District**

**Permit No. NWK-2015-02426  
Issue Date: January 6, 2016  
Expiration Date: January 27, 2016**

**21-Day Notice**

---

This public notice is issued jointly with the Missouri Department of Natural Resources, Water Pollution Control Program. The Department of Natural Resources will use the comments to this notice in deciding whether to grant Section 401 water quality certification. Commenters are requested to furnish a copy of their comments to the Missouri Department of Natural Resources, P.O. Box 176, Jefferson City, Missouri 65102.

**APPLICANT:** Mr. Darren Harris  
MFA Director of Engineering  
MFA Incorporated  
201 Ray Young Drive  
Columbia, Missouri

**PROJECT LOCATION** (As shown on the attached drawings): On a tract of approximately 260 acres, located in unnamed ephemeral, intermittent, and perennial tributaries to Otter Creek, and in adjacent wetlands, Sections 23 & 26, Township 57 North, Range 27 West, rural Caldwell County, Missouri. [USGS Quad: Hamilton East Quadrangle].

(Latitude: 39.731585 --- Longitude: -93.898417)

**AUTHORITY:** Section 404 of the Clean Water Act (33 USC 1344).

**ACTIVITY** (As shown on the attached drawings): **Proposed:** The applicant proposes the construction of a rail car loop track and grain elevator, along with loading facilities on an approximately 260 acre lot of agricultural land adjacent to an existing Union Pacific Railway line. The construction will require the placement of fill material consisting of corrugated metal pipe crossings, earthen material, riprap, and/or rock blankets within waters of the U.S (WOTUS).

The purpose of the project, as stated by the applicant, is to accommodate the minimum loading capacity of 100 rail cars as required by the Union Pacific Railway Company. The applicant currently operates nearby grain elevators to purchase, store, and dry agricultural commodities. The applicant was notified in 2014 by the Union Pacific Railway Company that future rail car shipments must be at least 100 rail cars. The applicant proposes to construct the required loop track and loading facilities to accommodate the minimum required rail cars for transporting agricultural commodities.

Construction of the proposed a rail car loop track and grain elevator with loading facilities would require fill being placed within WOTUS. Fill is material placed in WOTUS where the material

has the effect of; replacing any portion of a WOTUS with dry land or changing the bottom elevation of any portion of a WOTUS. Examples of such fill material include, but are not limited to: rock, sand, soil, clay, plastics, construction debris, wood chips, overburden from mining or other excavation activities, and materials used to create any structure or infrastructure in WOTUS. The term fill material does not include trash or garbage.

Ten wetlands will be partially or completely filled with earthen material and/or culvert crossings. The total permanent impact to all ten wetlands is approximately 1.76 acres. In addition, earthen fill and culvert crossings will be placed within six streams. Four ephemeral streams are proposed to have a total of approximately 700 linear feet (LF) of earthen material and culvert crossings placed as fill. Two intermittent streams are proposed to have a total of approximately 711 LF of earthen material and culvert crossings placed as fill. No impacts would occur within the one perennial stream located in the project area. See attached map for location of impacts.

**WETLANDS/AQUATIC HABITAT:** On December 29, 2015 a preliminary jurisdictional review was completed for the proposed project site. The review of the project area identified 26 wetlands totaling approximately 14.44 acres, one perennial tributary (827 LF), two intermittent tributaries (6,186 LF), and seven ephemeral (4,579 LF) are located on the proposed project site. This is the extent of our knowledge of jurisdictional resources onsite; the limits of jurisdiction over the entire proposed project boundary have not been verified by the Corps and could be revised prior to the permit decision

*Table 1: Streams located within the project area.*

<b>Streams</b>	<b>Map Identifier</b>	<b>Cowardin Class</b>	<b>Linear Feet</b>
Perennial #1	Per #1	Riverine	827
Intermittent #1-Intermittent portion	Int #1i	Riverine	3,164
Intermittent #1-Ephemeral portion	Int #1e	Riverine	502
Intermittent #2	Int #2	Riverine	3,022
Ephemeral #1	Eph #1	Riverine	534
Ephemeral #2	Eph #2	Riverine	116
Ephemeral #3	Eph #3	Riverine	415
Ephemeral #4	Eph #4	Riverine	128
Ephemeral #5	Eph #5	Riverine	1,675
Ephemeral #6	Eph #6	Riverine	1,209

Table 2: Wetlands located within the project area.

Wetlands	Map Identifier	Cowardin Class	Acres
Wetland #1	W1	Palustrine, forested	0.24
Wetland #2	W2	Palustrine, unconsolidated/forested	0.20
Wetland #3	W3	Palustrine, emergent/scrub-shrub	0.01
Wetland #4	W4	Palustrine, unconsolidated/forested	0.15
Wetland #5	W5	Palustrine, emergent/forested	4.77
Wetland #6	W6	Palustrine, unconsolidated/forested	1.18
Wetland #7	W7	Palustrine, unconsolidated/forested	0.56
Wetland #8	W8	Palustrine, forested	1.34
Wetland #9	W9	Palustrine, forested	0.03
Wetland #10	W10	Palustrine, forested	0.01
Wetland #11	W11	Palustrine, emergent	0.03
Wetland #12	W12	Palustrine, emergent	0.05
Wetland #13	W13	Palustrine, emergent	0.02
Wetland #14	FW1	Palustrine, emergent	0.02
Wetland #15	FW2	Palustrine, emergent	0.04
Wetland #16	FW3	Palustrine, emergent	0.07
Wetland #17	PW1	Palustrine, emergent	0.79
Wetland #18	PW2	Palustrine, emergent	0.36
Wetland #19	PW3	Palustrine, emergent	0.13
Wetland #20	PW4	Palustrine, emergent	2.17
Wetland #21	PW5	Palustrine, emergent	0.89
Wetland #22	PW6	Palustrine, emergent/forested	0.21
Wetland #23	PW7	Palustrine, emergent/forested	0.31
Wetland #24	PW8	Palustrine, forested	0.04
Wetland #25	PW9	Palustrine, emergent	0.17
Wetland #26	PW10	Palustrine, emergent	0.65

**APPLICANT’S STATEMENT OF AVOIDANCE, MINIMIZATION, AND COMPENSATORY MITIGATION FOR UNAVOIDABLE IMPACTS TO AQUATIC RESOURCES:**

The project avoids the majority of wetlands and streams on the parcel. The project minimized impacts to receiving waters through the preservation of existing riparian corridors. For unavoidable impacts to jurisdictional waters, the applicant proposes the purchase of stream and wetland mitigation credits from an approved mitigation provider.

**ADDITIONAL INFORMATION:** Additional information about this application may be obtained by contacting Anthony Koch, U.S. Army Corps of Engineers, Missouri State Regulatory Office, 515 East High Street #202, Jefferson City, Missouri 65101, telephone: (816) 389-3828 or via email at [Anthony.J.Koch@usace.army.mil](mailto:Anthony.J.Koch@usace.army.mil). All comments to this public notice should be directed to the above address. Please reference Permit No. NWK 2015-02426.

**CULTURAL RESOURCES:** Kansas City District will comply with the National Historic Preservation Act of 1966 and 36 CFR 800. We have checked the National Register of Historic Places and the Federal Register and no property listed in the Register or proposed for listing is located in the permit area. This is the extent of our knowledge about historic properties in the permit area at this time. However, we will evaluate input by the State Historic Preservation Officer, Tribal Historic Preservation Officers (or Tribe designated representative) and the public in response to this public notice, and we may conduct or require a reconnaissance survey of the permit area to check for unknown historic properties, if warranted.

**ENDANGERED SPECIES:** In compliance with the Endangered Species Act, a preliminary determination has been made that the described work will not likely adversely affect species designated as threatened or endangered or adversely affect critical habitat. In order to complete our evaluation of this activity, comments are solicited from the U.S. Fish and Wildlife Service and other interested agencies and individuals.

**FLOODPLAINS:** This activity is being reviewed in accordance with Executive Order 11988, Floodplain Management, which discourages direct or indirect support of floodplain development whenever there is a practicable alternative. By this public notice, comments are requested from individuals and agencies that believe the described work will adversely impact the floodplain.

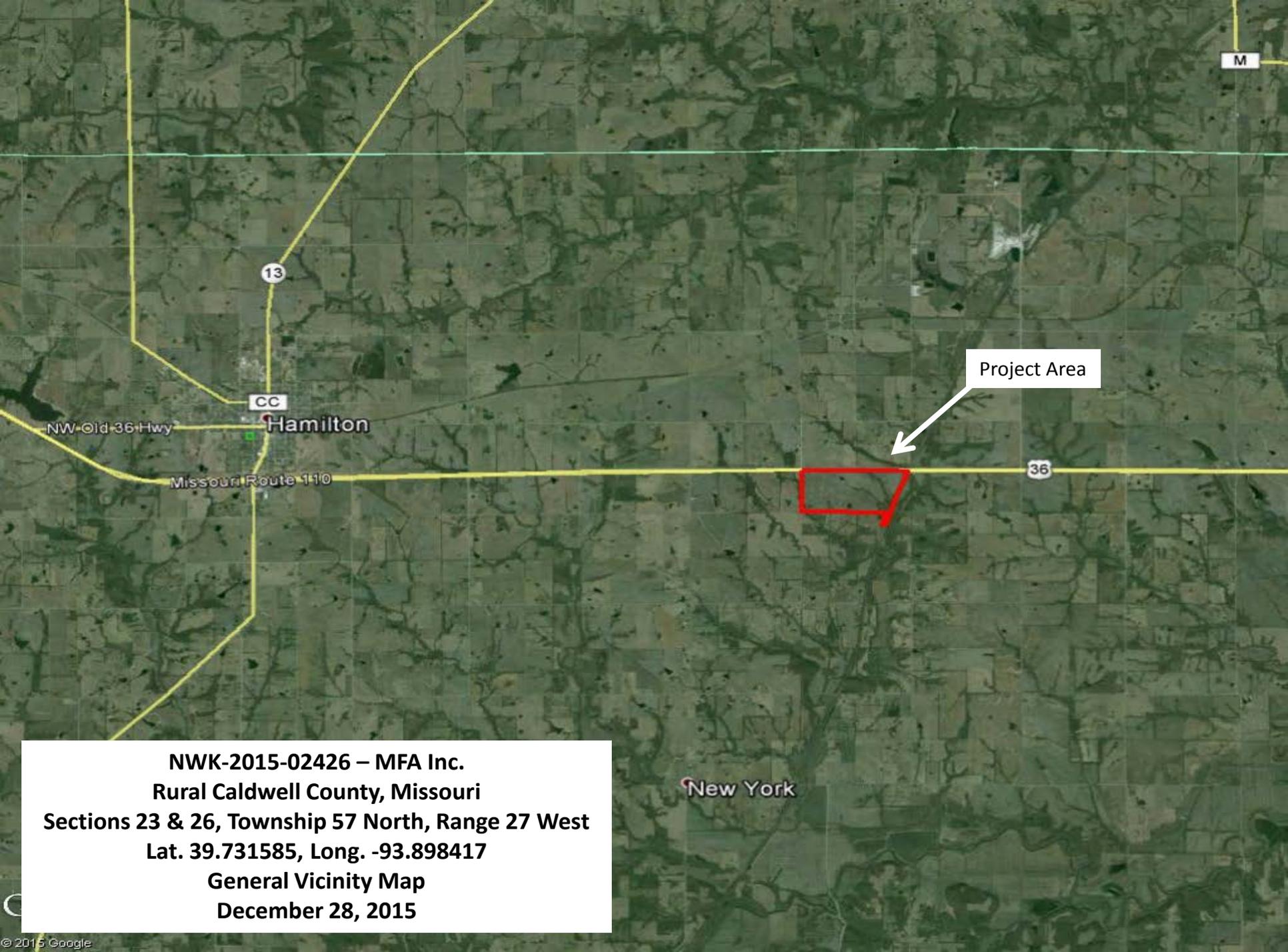
**USE WHEN SECTION 401 WATER QUALITY IS REQUIRED: WATER QUALITY CERTIFICATION:** Section 401 of the Clean Water Act (33 USC 1341) requires that all discharges of dredged or fill material must be certified by the appropriate state agency as complying with applicable effluent limitations and water quality standards. This public notice serves as an application to the state in which the discharge site is located for certification of the discharge. The discharge must be certified before a Department of the Army permit can be issued. Certification, if issued, expresses the state's opinion that the discharge will not violate applicable water quality standards.

**PUBLIC INTEREST REVIEW:** The decision to issue a permit will be based on an evaluation of the probable impact including the cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, esthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and, in general, the needs and welfare of the people. The evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act (33 USC 1344). The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**COMMENTS:** This notice is provided to outline details of the above-described activity so this District may consider all pertinent comments prior to determining if issuance of a permit would be in the public interest. Any interested party is invited to submit to this office written facts or objections relative to the activity on or before the public notice expiration date. Comments both favorable and unfavorable will be accepted and made a part of the record and will receive full consideration in determining whether it would be in the public interest to issue the Department of the Army permit. Copies of all comments, including names and addresses of commenters, may

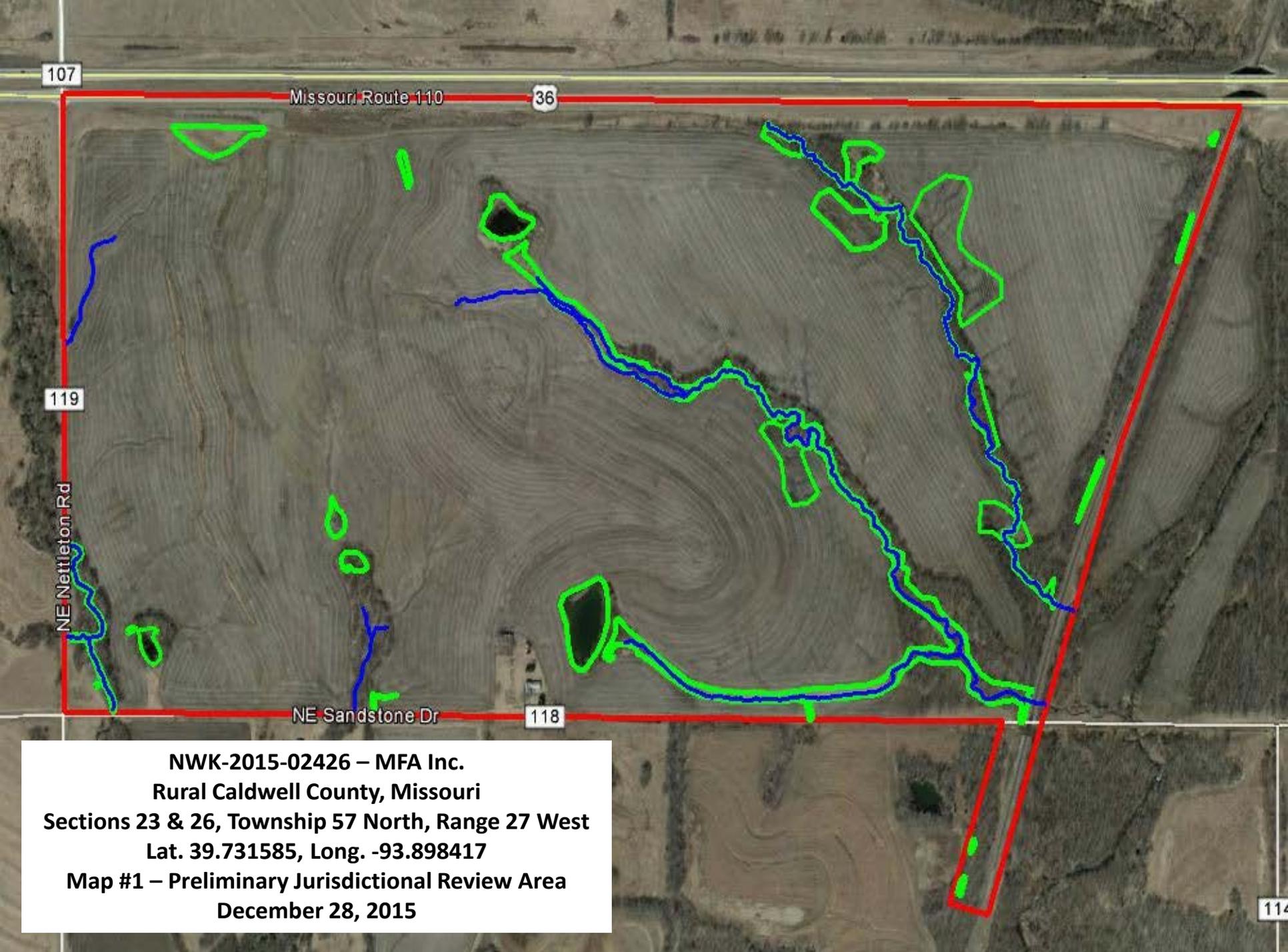
be provided to the applicant. Comments should be mailed to the address shown on page 2 of this public notice.

**PUBLIC HEARING:** Any person may request, in writing, prior to the expiration date of this public notice, that a public hearing be held to consider this application. Such requests shall state, with particularity, the reasons for holding a public hearing.



Project Area

**NWK-2015-02426 – MFA Inc.**  
**Rural Caldwell County, Missouri**  
**Sections 23 & 26, Township 57 North, Range 27 West**  
**Lat. 39.731585, Long. -93.898417**  
**General Vicinity Map**  
**December 28, 2015**



107

Missouri Route 110

36

119

NE Nettleton Rd

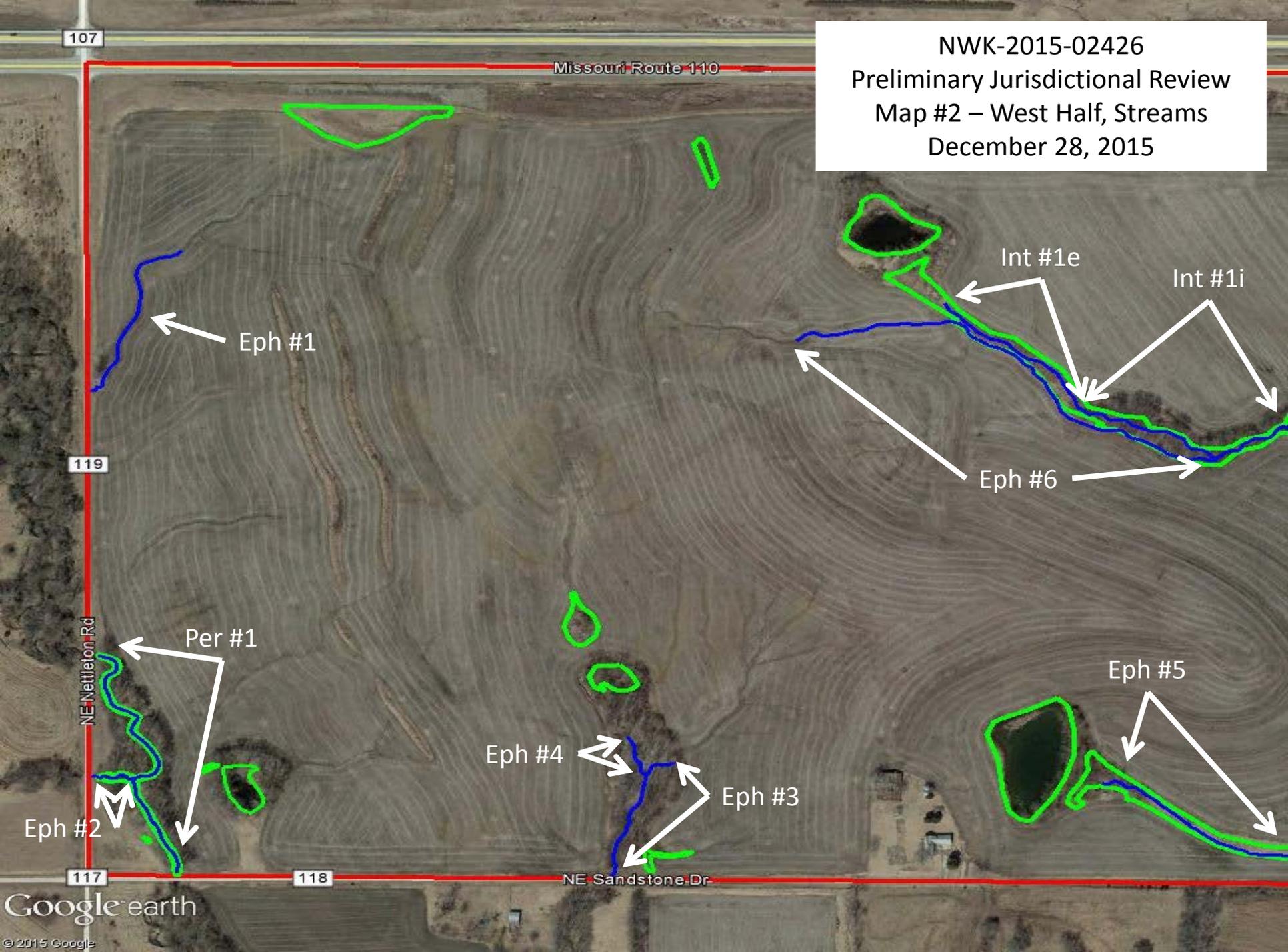
NE Sandstone Dr

118

**NWK-2015-02426 – MFA Inc.**  
**Rural Caldwell County, Missouri**  
**Sections 23 & 26, Township 57 North, Range 27 West**  
**Lat. 39.731585, Long. -93.898417**  
**Map #1 – Preliminary Jurisdictional Review Area**  
**December 28, 2015**

114

NWK-2015-02426  
Preliminary Jurisdictional Review  
Map #2 – West Half, Streams  
December 28, 2015



Eph #1

Int #1e

Int #1i

Eph #6

Per #1

Eph #5

Eph #2

Eph #4

Eph #3

107

Missouri Route 110

119

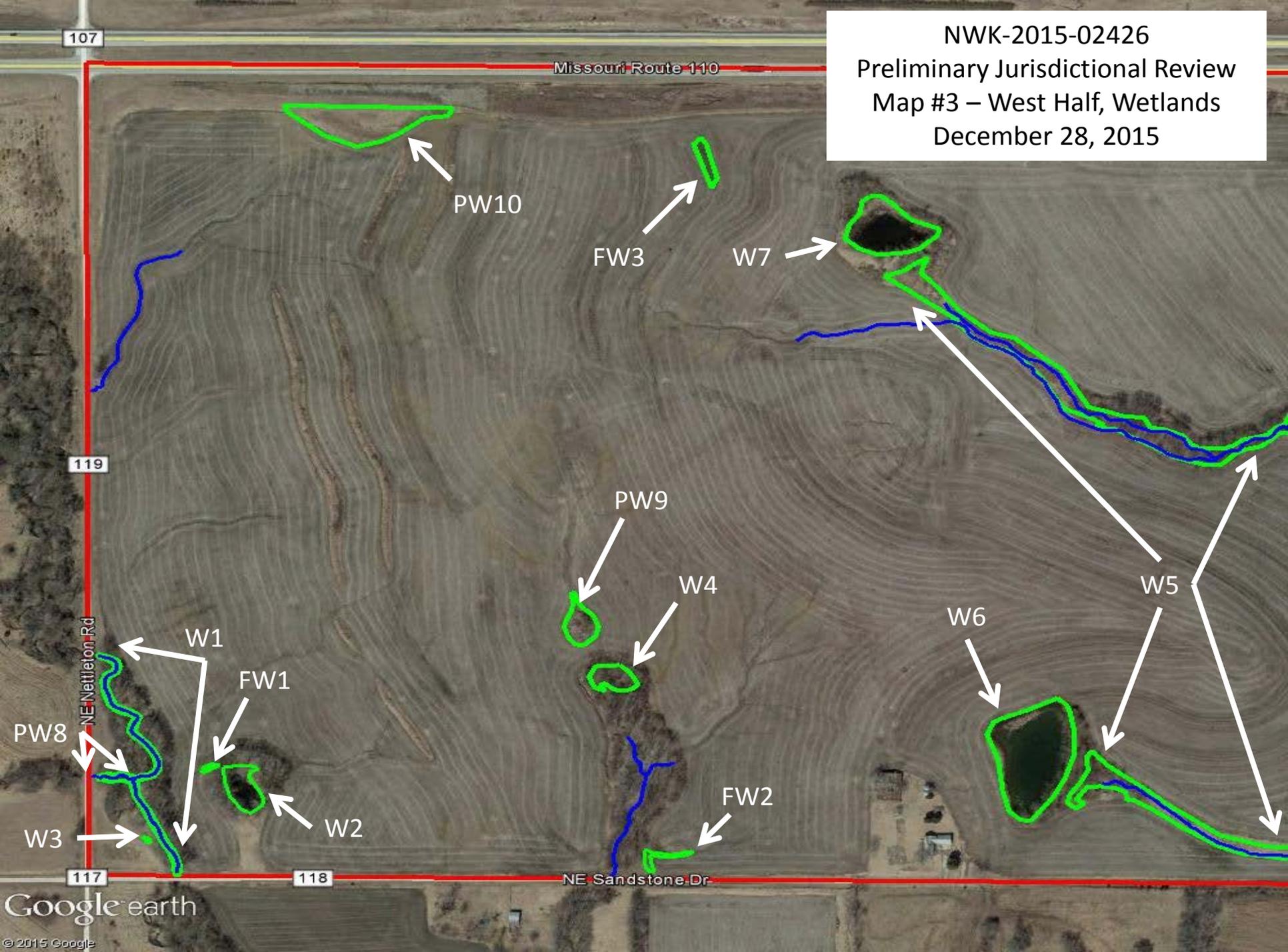
NE Nettleton Rd

117

118

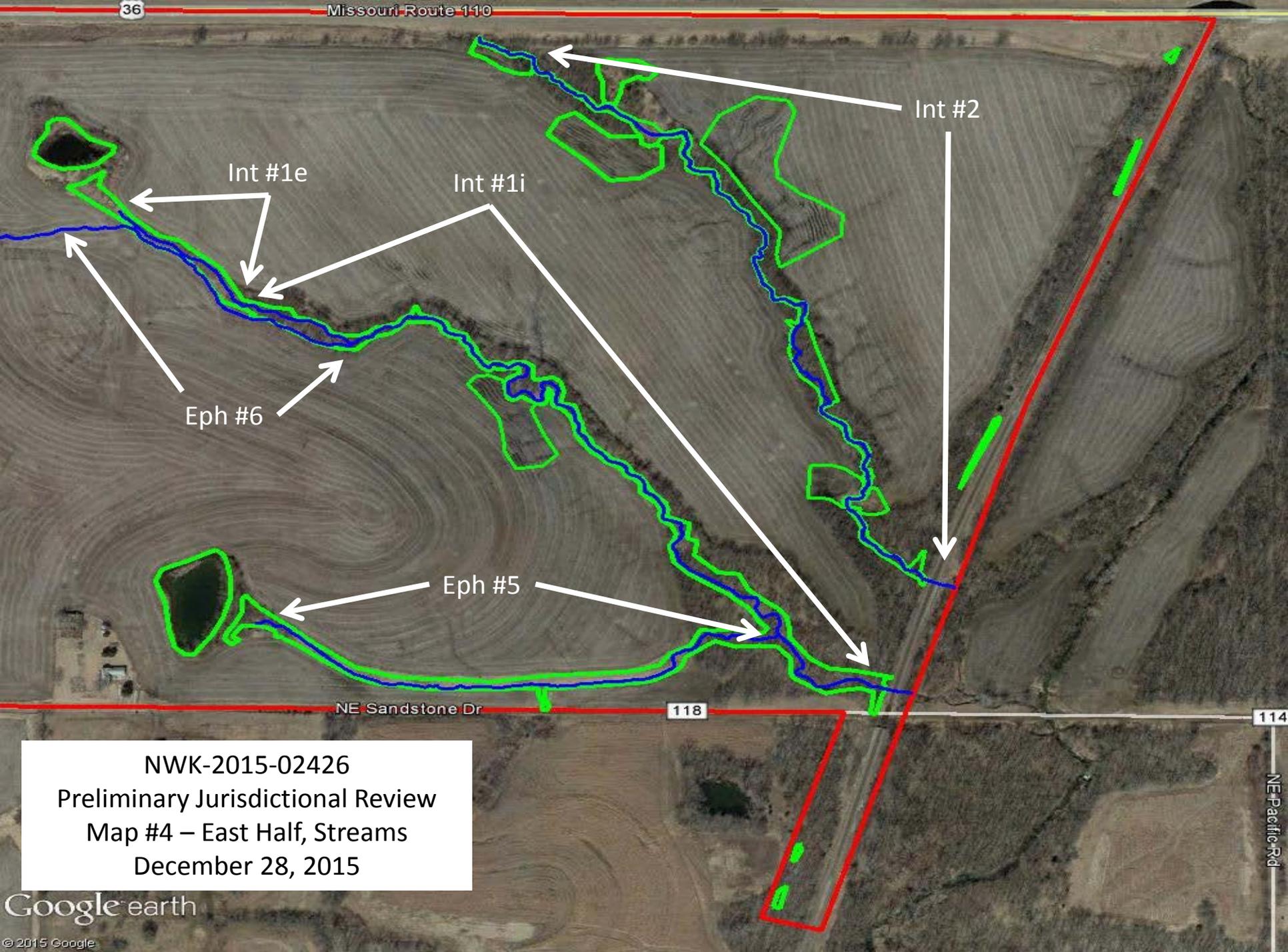
NE Sandstone Dr

NWK-2015-02426  
Preliminary Jurisdictional Review  
Map #3 – West Half, Wetlands  
December 28, 2015



36

Missouri Route 110



Int #1e

Int #1i

Int #2

Eph #6

Eph #5

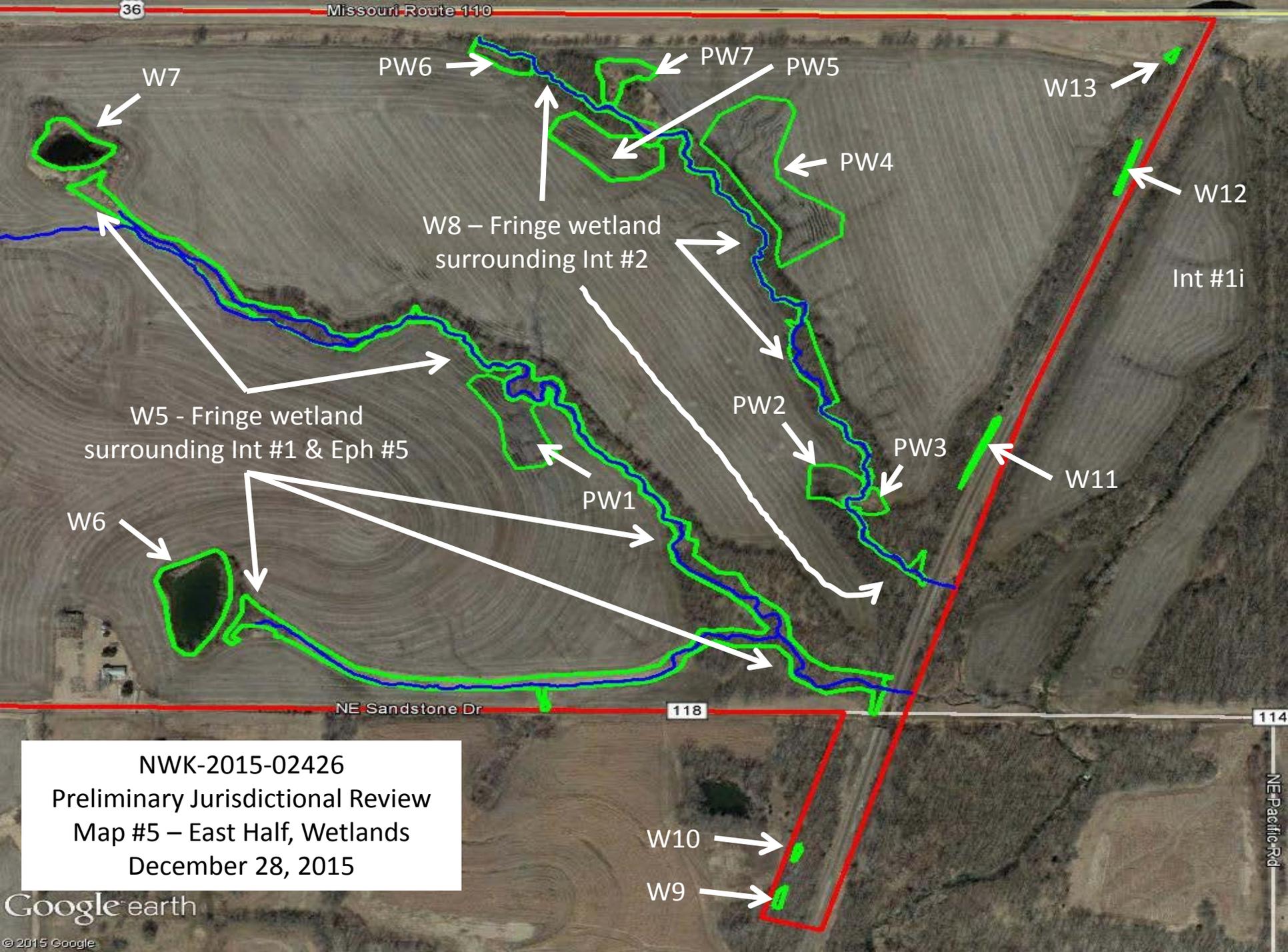
NE Sandstone Dr

118

114

NE Pacific Rd

NWK-2015-02426  
 Preliminary Jurisdictional Review  
 Map #4 – East Half, Streams  
 December 28, 2015



36

Missouri Route 110

W7

PW6

PW7

PW5

W13

PW4

W12

W8 - Fringe wetland surrounding Int #2

Int #1i

W5 - Fringe wetland surrounding Int #1 & Eph #5

PW2

PW3

W11

W6

PW1

NE Sandstone Dr

118

114

NWK-2015-02426

Preliminary Jurisdictional Review

Map #5 - East Half, Wetlands

December 28, 2015

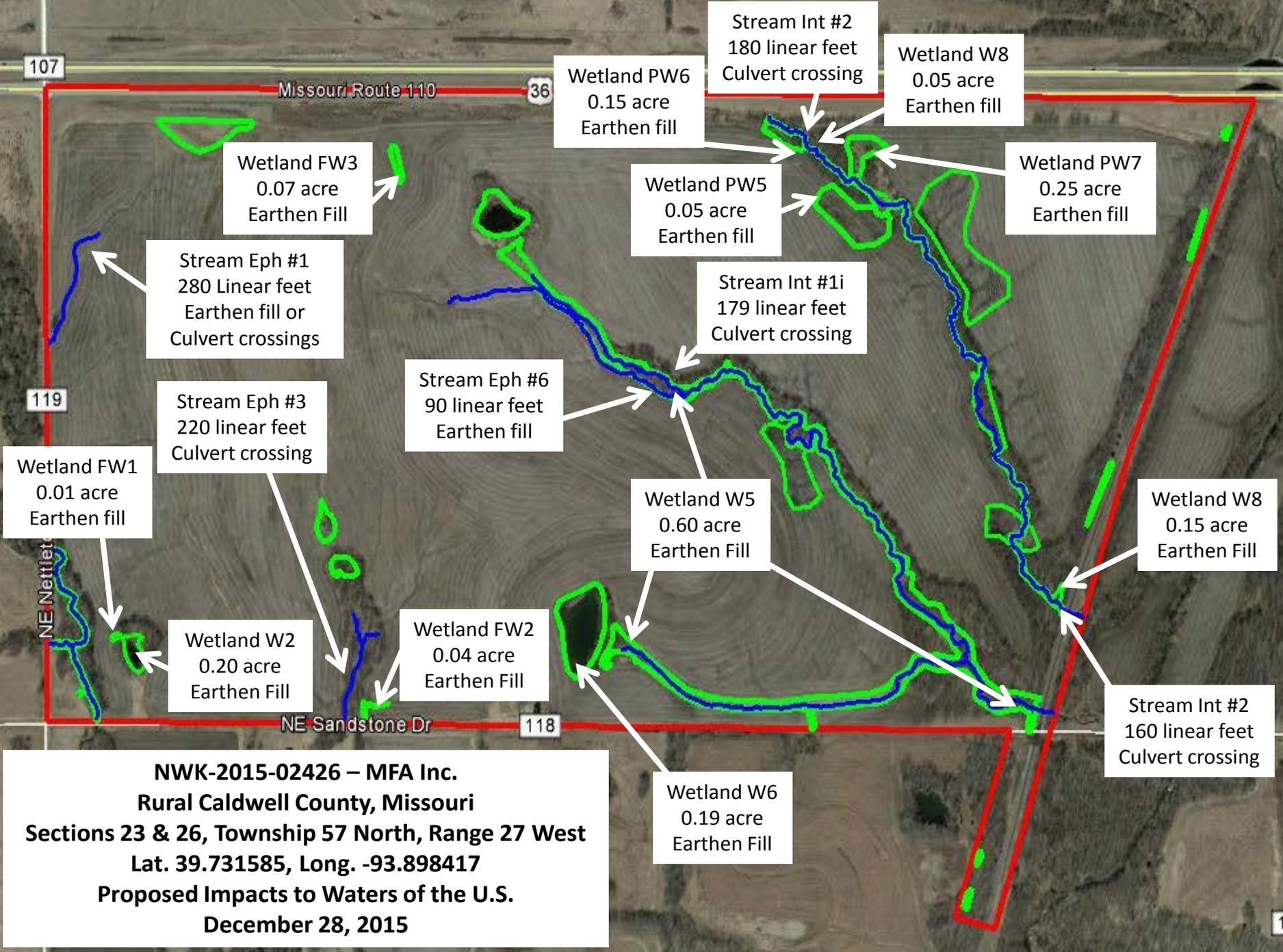
W10

W9

NE Pacific Rd

Google earth

© 2015 Google



**NWK-2015-02426 – MFA Inc.**  
**Rural Caldwell County, Missouri**  
**Sections 23 & 26, Township 57 North, Range 27 West**  
**Lat. 39.731585, Long. -93.898417**  
**Proposed Impacts to Waters of the U.S.**  
**December 28, 2015**

107

Missouri Route 110

36

Wetland FW3  
0.07 acre  
Earthen Fill

Wetland PW6  
0.15 acre  
Earthen fill

Stream Int #2  
180 linear feet  
Culvert crossing

Wetland W8  
0.05 acre  
Earthen fill

Wetland PW7  
0.25 acre  
Earthen fill

Stream Eph #1  
280 Linear feet  
Earthen fill or  
Culvert crossings

Wetland PW5  
0.05 acre  
Earthen fill

Stream Int #1i  
179 linear feet  
Culvert crossing

119

Stream Eph #3  
220 linear feet  
Culvert crossing

Stream Eph #6  
90 linear feet  
Earthen fill

Wetland FW1  
0.01 acre  
Earthen fill

Wetland W5  
0.60 acre  
Earthen Fill

Wetland W8  
0.15 acre  
Earthen Fill

NE Nettlet

Wetland W2  
0.20 acre  
Earthen Fill

Wetland FW2  
0.04 acre  
Earthen Fill

NE Sandstone Dr

118

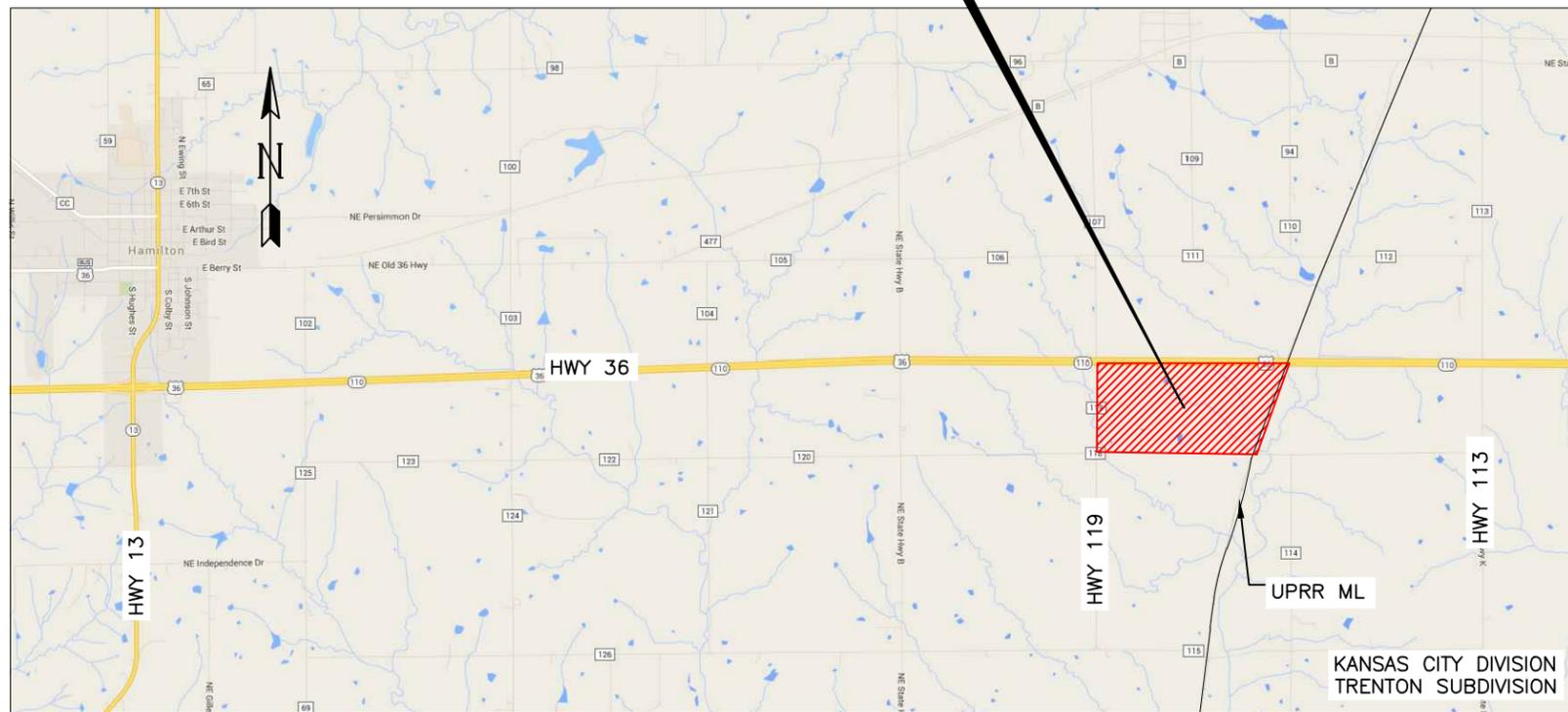
Wetland W6  
0.19 acre  
Earthen Fill

Stream Int #2  
160 linear feet  
Culvert crossing

114

# PROPOSED LOOP TRACK TO SERVE MFA, INC. NEAR HAMILTON, MISSOURI

PROJECT LOCATION



NO SCALE

INDEX TABLE

DRAWING NUMBER	SHEET DESCRIPTION	SHEET NUMBER	REVISION NUMBER	REVISION DATE
15157-CVR	COVER SHEET	1 OF 107	0	12/17/15
15157-1	SHEET LAYOUT / GENERAL NOTES	2 OF 107	0	12/17/15
15157-1	PROPOSED LEAD TRACK PLAN STA -3+00 - STA 12+00 DETAIL	3 OF 107	0	12/17/15
15157-1	PROPOSED LEAD TRACK PLAN STA -5+00 - STA 27+00	4 OF 107	0	12/17/15
15157-1	PROPOSED LEAD / LOOP TRACK PLAN STA 27+00 - STA 53+00; STA 109+00-STA 126+64.06, PROPOSED WYE TRACK PLAN	5 OF 107	0	12/17/15
15157-1	PROPOSED LOOP TRACK PLAN STA 53+00 - STA 86+00	6 OF 107	0	12/17/15
15157-1	PROPOSED LOOP TRACK PLAN STA 86+00 - STA 108+00	7 OF 107	0	12/17/15
15157-1	PROPOSED LEAD TRACK PROFILE STA -5+00 - STA 23+00	8 OF 107	0	12/17/15
15157-1	PROPOSED LEAD / LOOP TRACK PROFILE STA 23+00 - STA 50+00	9 OF 107	0	12/17/15
15157-1	PROPOSED LOOP TRACK PROFILE STA 50+00 - STA 77+00	10 OF 107	0	12/17/15
15157-1	PROPOSED LOOP TRACK PROFILE STA 77+00 - STA 104+00	11 OF 107	0	12/17/15
15157-1	PROPOSED LOOP TRACK PROFILE STA 104+00 - STA 125+73.93	12 OF 107	0	12/17/15
15157-1	PROPOSED PROFILES WYE TRACK, BAD-ORDER TRACK, ACCESS ROAD	13 OF 107	0	12/17/15
15157-1	ALIGNMENT TABLES	14 OF 107	0	12/17/15
15157-DET	DETAILS	15 TO 19	0	12/17/15
15157-DET	TYPICAL SECTIONS	20 OF 107	0	12/17/15
15157-1	EARTHWORK AND STRIPPING QUANTITIES	21 TO 24	0	12/17/15
15157-1X	PROPOSED LEAD / LOOP TRACK CROSS SECTIONS	25 TO 84	0	12/17/15
15157-1X	PROPOSED WYE TRACK CROSS SECTIONS	85 TO 94	0	12/17/15
15157-1X	PROPOSED ACCESS ROAD CROSS SECTIONS	95 TO 96	0	12/17/15
15157-ESCP	EROSION AND SEDIMENT CONTROL PLAN AND DETAILS	97 TO 106	0	12/17/15
15157-1	UPRR LEGEND AND 30% SUBMITTAL CHECKLIST	107 OF 107	0	12/17/15

**PRELIMINARY  
FOR APPROVAL**

## CONSTRUCTION PLANS

FES #: 30083

REVISION #	BY	DATE	DESCRIPTION

DRAWN BY:	RWS
CHECKED BY:	SPH
DATE:	12-17-15
DRAWING NO:	15157-1
SHEET NUMBER:	1 of 107

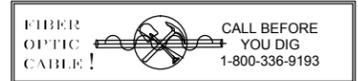
For Use In Agreement With: **UNION PACIFIC RAILROAD AND MFA INC.**  
 LOCATION & DESCRIPTION:  
 MP 445.33 TRENTON SUBDIVISION  
 HAMILTON, CALDWELL COUNTY, MISSOURI  
**TRACKAGE TO SERVE:**  
 MFA, INC.

LEGEND:

EXISTING RAILROAD OWNED TRACKAGE	
EXISTING INDUSTRY OWNED TRACKAGE	
PROPOSED RAILROAD OWNED TRACKAGE	
PROPOSED INDUSTRY OWNED TRACKAGE	
FIBER OPTIC CABLE	
PROPERTY BOUNDARY	
EXISTING FENCE	
PROPOSED FENCE	

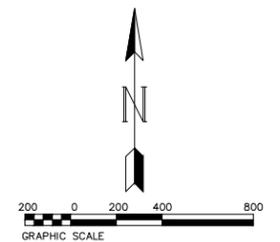
COVER SHEET

PROPOSED LOOP TRACK  
FOR 110 CARS TO SERVICE  
MFA INC.



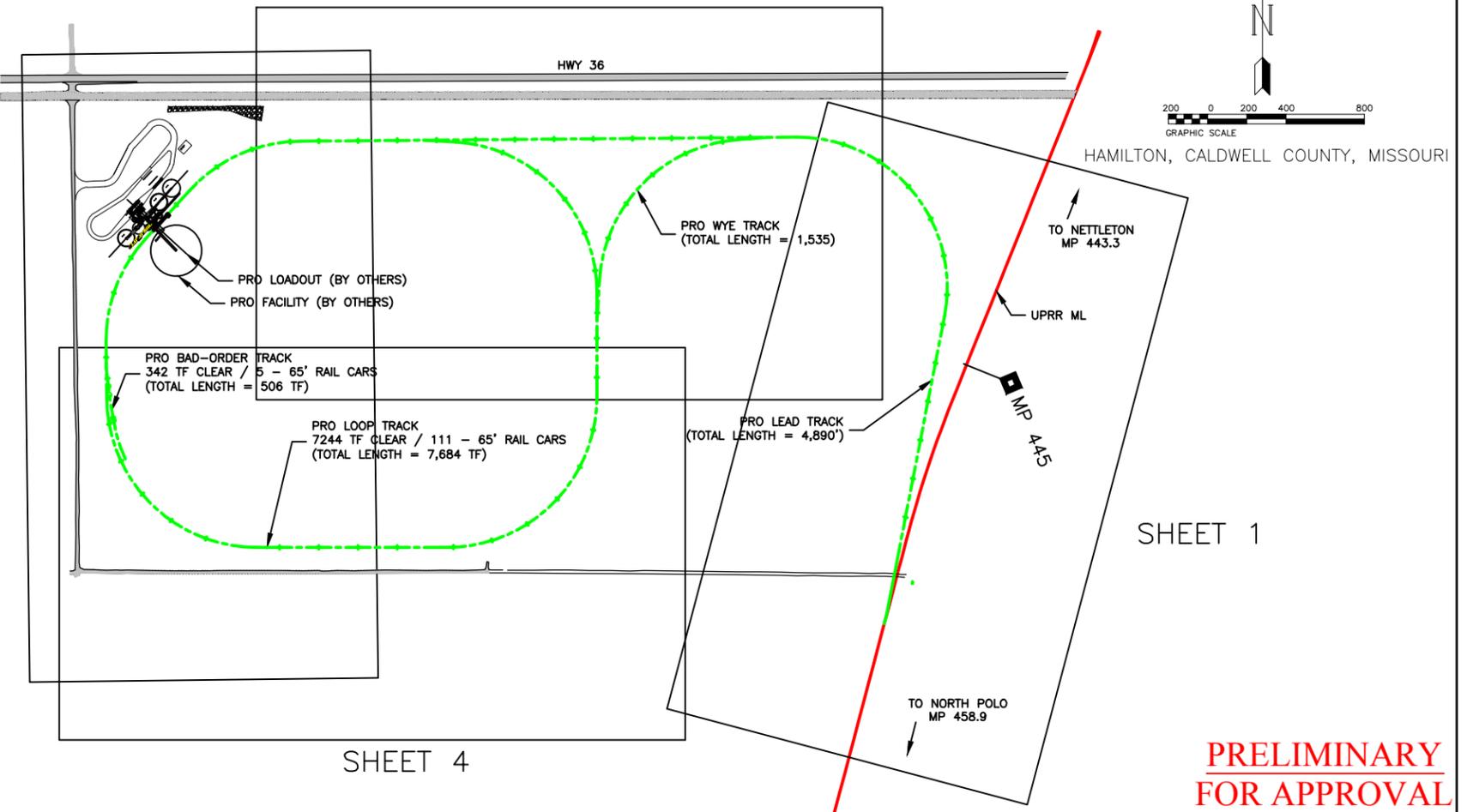
**DESIGN NINE**  
 ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY  
 11166 TESSON FERRY ROAD - SUITE 100  
 ST. LOUIS MO. 63123-6966  
 (314) 729-7600

S:\2015\MFA\Design\15157-CVR.dwg, COVER, 12/17/2015 3:17:10 PM, COOP



SCOPE OF WORK MATRIX					
Task	Industry Supply	UPRR Supply	Industry Construct	UPRR Construct	Description
<b>Work to 13' Clear Point:</b>					
Main Line Ballast	X			X	
Walkway Ballast	X			X	
Main Line TO.	X			X	1-No 15 LH POTO WITH SPRING FROG
Other TO.					N/A
Rail & OTM	X			X	136# CLASS 1 RELAY RAIL (MIN)
Ties	X			X	Wood
Comp Joint Bars					N/A
Comp Field Welds					N/A
Field Welds					N/A
Deraills off ML.					N/A
Signs					N/A
Other					N/A
<b>Work Beyond 13' Clear Point:</b>					
Main Line Ballast	X		X	X	
Walkway Ballast	X		X	X	
Other TO.	X		X		2-No 15 RH HTTO, 1-No 15 LH HTTO, 1-No 11 LH HTTO
Rail & OTM	X	X	X	X	136# CLASS 1 RELAY RAIL (MIN)
Ties	X	X	X	X	Wood
Comp Joint Bars	X		X		Tie Into Existing Tracks
Comp Field Welds					N/A
Field Welds					N/A
Road Xing Work	X		X		
Deraills off ML.	X			X	Install 1-Double Switch Point Derail Power
Insulated Joints	X		X	X	
Signs	X		X		Road Crossing Signs; End MTC Sign
Road Xings	X		X	X	116 TF Timber X-ings Remove Open Deck Bridge (Not Part of this Project)
Signal Work		X		X	Install Signals for No 15 Turnout
Gate	X		X		16'
Other	X		X		Install Earth Mound Bumper; Construct R/W Fence and Gate

SHEET 3



SHEET 4

**PRELIMINARY FOR APPROVAL**

**GENERAL NOTES:**

- ALL WORK AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE UNION PACIFIC RAILROAD, (UPRR), AS COVERED UNDER THEIR TECHNICAL SPECIFICATIONS FOR CONSTRUCTION OF INDUSTRIAL TRACKS.
- ALL EXISTING UTILITIES INDICATED ON THE DRAWINGS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER. HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL UTILITIES PRIOR TO ANY WORK. UTILITIES DAMAGED BY THE CONTRACTOR DURING HIS WORK OR IN OBTAINING THE LOCATION OF EXISTING UTILITIES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. UTILITIES REQUIRING ADJUSTMENT/PROTECTION DUE TO TRACK CONSTRUCTION SHALL BE ADJUSTED/PROTECTED IN ACCORDANCE WITH UPRR REQUIREMENTS.
- CLEARANCES TO EXISTING OR PROPOSED STRUCTURES MUST MEET AND/OR EXCEED UPRR STANDARDS AND MISSOURI LEGAL CLEARANCES OR BE COVERED BY AN APPROPRIATE AGREEMENT.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ANY AND ALL FACILITIES AS NECESSARY IN ORDER TO ENSURE THAT ALL CURRENT FEDERAL, STATE AND LOCAL REGULATIONS ARE ADHERED TO WITH REGARD TO EROSION/SEDIMENTATION CONTROL THROUGHOUT THE LENGTH OF HIS WORK. ALL EROSION/SEDIMENTATION CONTROL SHALL BE IN ACCORDANCE WITH CURRENT MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- WOOD CROSS TIES SHALL BE NEW CREOSOTE TREATED 7" X 9" X 8'-6" (#5 GRADE) WITH 100% END PLATING. ALL TIES SHALL BE NEW OAK OR MIXED HARDWOODS, CREOSOTE TREATED IN ACCORDANCE WITH AREMA OR CURRENT UPRR GUIDELINES AS REFERENCED IN NOTE #1.
- WALKWAYS FOR SWITCHMAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AS SHOWN ON THESE DRAWINGS OR THE FEDERAL, STATE OR LOCAL SPECIFICATIONS WHICHEVER IS THE MOST PROTECTIVE FROM THE STANDPOINT OF SAFETY. WALKWAYS ADJACENT TO PROPOSED TURNOUTS ONLY.
- CORRUGATED STEEL PIPE (CSP) CULVERT MATERIAL BENEATH TRACKS SHALL BE CONSTRUCTED/INSTALLED IN ACCORDANCE WITH CURRENT UPRR/AREMA SPECIFICATIONS.
- CONTRACTOR TO VERIFY THE SIZE OF ALL CULVERT STRUCTURES PRIOR TO ORDERING MATERIAL.
- RAIL JOINTS SHALL BE PLACED A MINIMUM OF 20' FROM EACH END OF PROPOSED GRADE CROSSING SURFACE.
- THE COORDINATES SHOWN ARE BASED ON MISSOURI WEST STATE PLANE (NAD88). ELEVATION DATUM IS NAVD 83. COORDINATE SYSTEM AND DATUM ESTABLISHED BY ENGINEERING SURVEYS AND SERVICES, INC.
- THE SURVEY DATA USED TO DEVELOP THESE PLANS WERE FROM DNI'S LOCATION SURVEY PERFORMED BETWEEN 09-28-15 AND 10-2-15.
- ALL OVERHEAD POWER LINES ARE 27' PLUS CLEARANCE TO THE EXISTING TRACKAGE. ACTUAL VOLTAGE/CLEARANCE REQUIREMENTS ARE TO BE CONFIRMED BY MFA.
- THE EXISTING RAILROAD RIGHT OF WAY SHOWN IN THESE DRAWINGS IS BASED ON RAILROAD VALUATION MAPS.
- UPRR MAINLINE MILEPOST AND STATIONING BASED ON SURVEYED CL BRIDGE 4452 AT ECS 23610+24.
- STRUCTURE REVIEW WILL BE REQUIRED BY UPRR STRUCTURES DEPARTMENT FOR THE 4-60" RCP CULVERT EXTENSIONS AND 1- CULVERT ACROSS PROPOSED ACCESS ROAD E.S. 2+75.

**SCOPE OF WORK**

WORK TO BE PERFORMED IN 2016.

**SCOPE OF WORK BY UPRR**

- INSTALL SIGNAL FOR #15 TURNOUT
- INSTALL 1-NO. 15 136# LH POTO
- INSTALL 1-DOUBLE SWITCH POINT DERAIL
- CONSTRUCT 193 TF OF 136# RAIL (EXCLUDING TURNOUT)

**SCOPE OF WORK BY INDUSTRY**

- INSTALL 1 - EARTH MOUND BUMPER
- FURNISH & INSTALL 1-NO. 11 136# LH HTTO
- FURNISH & INSTALL 1-NO. 15 136# LH HTTO
- FURNISH & INSTALL 2-NO. 15 136# RH HTTO
- CONSTRUCT 12,911 TF OF 136# RAIL (EXCLUDING TURNOUTS)
- FURNISH & INSTALL 5 - 24 TF (TOTAL LENGTH = 120 TF) SOLID TIMBER GRADE XINGS
- FURNISH & INSTALL 877 LF OF R/W FENCE AND 1 - 16' GATE

**NOTES:**

- SANDSTONE DRIVE IS INTENDED TO BE CLOSED. FOLLOWING THE ROAD CLOSURE, UPRR IS PLANNING THE REMOVAL OF THE EXISTING BRIDGE (NOT PART OF THIS PROJECT). PROPOSED LEAD TRACK EMBANKMENT WILL BE PLACED ACROSS THE ROAD FOLLOWING THE ROAD CLOSURE AND SHEET PILE WALL MAY BE CONSTRUCTED TO PROTECT THE EXISTING BRIDGE FROM FILL IF THE BRIDGE HAS NOT BEEN REMOVED BY THAT TIME.
- REESTABLISH EXISTING ROW FENCE FROM STA 0+85 TO STA 12+40 AND INSTALL A 16' SINGLE-SWING GATE AT ACCESS ROAD RAMP OPPOSITE STA 2+52.
- WOOD TIE TRACK CONSTRUCTION IS REQUIRED 550' PAST THE POINT OF SWITCH OF THE DERAIL, UP TO STA 9+23.07 TO ACCOMMODATE THE MANDATORY SIGNAL CIRCUIT LENGTH.
- TRANSITION FROM WORN 133# TO NEW 136# ON MAINLINE AHEAD OF MAINLINE SWITCH, FROM NEW 136# TO WORN 133# ON MAINLINE AFTER MAINLINE SWITCH AND FROM NEW 136# TO NEW 115# ON LEAD TRACK AT STA 3+73.07

**MISSOURI UTILITY DISCLAIMER**

LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND SHOWN FOR CONTRACTOR INFORMATION PURPOSES. THE IMPLIED PRESENCE, OR ABSENCE, OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTING, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. (MISSOURI ONE CALL 1-800-344-7483).

**CONSTRUCTION PLANS**

FES #: 30083

LEGEND:	
EXISTING RAILROAD OWNED TRACKAGE	
EXISTING INDUSTRY OWNED TRACKAGE	
PROPOSED RAILROAD OWNED TRACKAGE	
PROPOSED INDUSTRY OWNED TRACKAGE	
FIBER OPTIC CABLE	
PROPERTY BOUNDARY	
EXISTING FENCE	
PROPOSED FENCE	

REVISION #	BY	DATE	DESCRIPTION

DRAWN BY:	RWS
CHECKED BY:	SPH
DATE:	12-17-15
DRAWING NO:	15157-1
SHEET NUMBER:	2 of 107

For Use In Agreement With: **UNION PACIFIC RAILROAD AND MFA INC.**  
 LOCATION & DESCRIPTION:  
**MP 445.33 TRENTON SUBDIVISION**  
**HAMILTON, CALDWELL COUNTY, MISSOURI**  
**TRACKAGE TO SERVE:**  
**MFA, INC.**

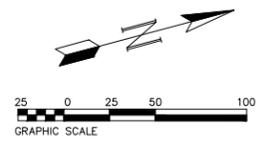
S:\2015\MFA\Design\115157-1.dwg\_DET\_12/17/2015 6:21:01 PM\_rws

**DESIGN NINE**  
 ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY  
 11166 TESSON FERRY ROAD - SUITE 100  
 ST. LOUIS MO, 63123-6966  
 (314) 729-7600

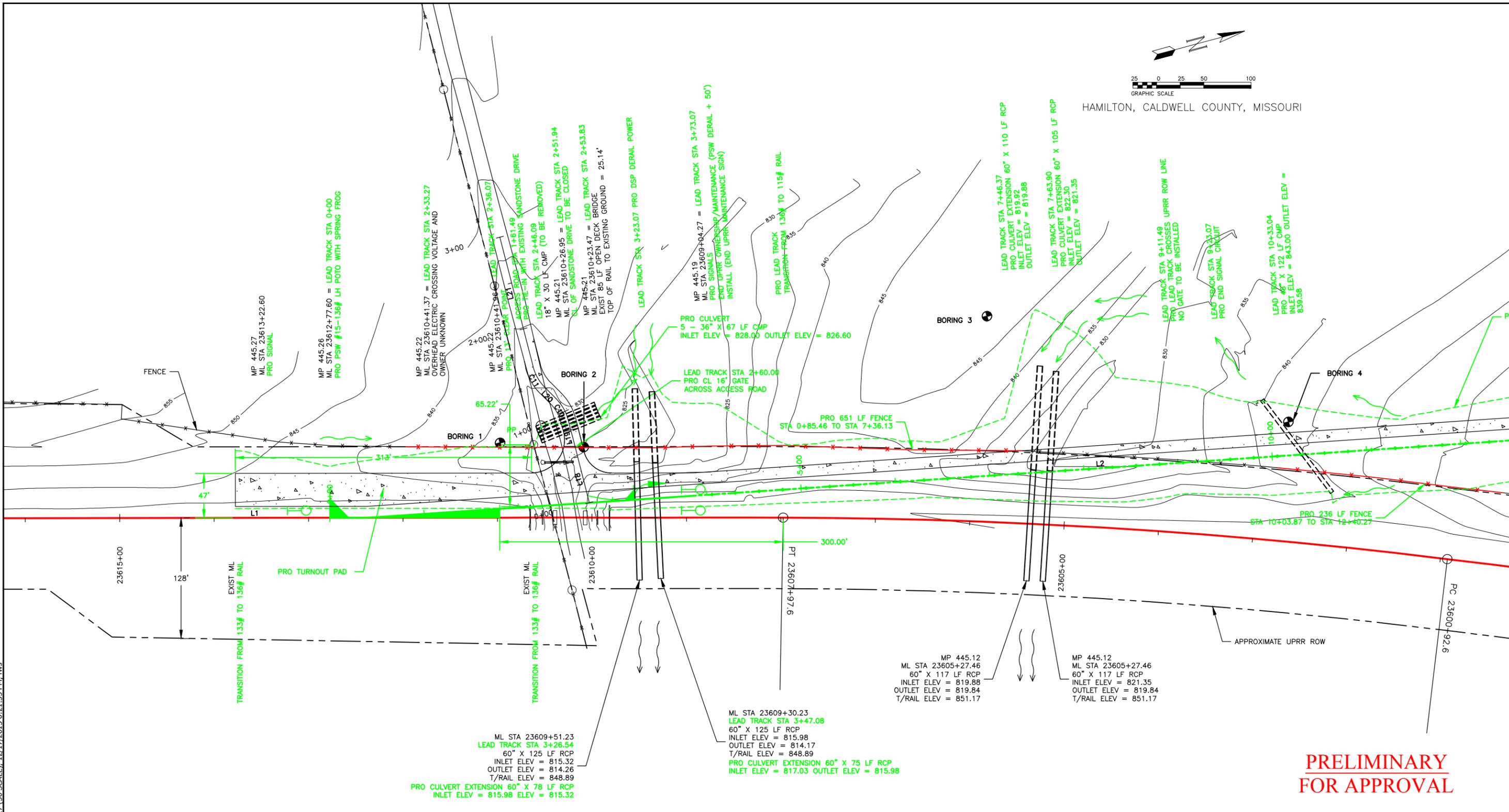
**SHEET LAYOUT GENERAL NOTES**

FIBER OPTIC CABLE! CALL BEFORE YOU DIG 1-800-336-9193

**PROPOSED LOOP TRACK FOR 110 CARS TO SERVICE MFA INC.**



HAMILTON, CALDWELL COUNTY, MISSOURI



**PRELIMINARY  
FOR APPROVAL**

**CONSTRUCTION PLANS**

FES #: 30083

LEGEND:

EXISTING RAILROAD OWNED TRACKAGE	
EXISTING INDUSTRY OWNED TRACKAGE	
PROPOSED RAILROAD OWNED TRACKAGE	
PROPOSED INDUSTRY OWNED TRACKAGE	
FIBER OPTIC CABLE	
PROPERTY BOUNDARY	
EXISTING FENCE	
PROPOSED FENCE	

REVISION #	BY	DATE	DESCRIPTION

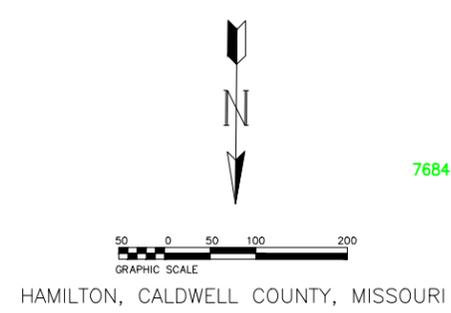
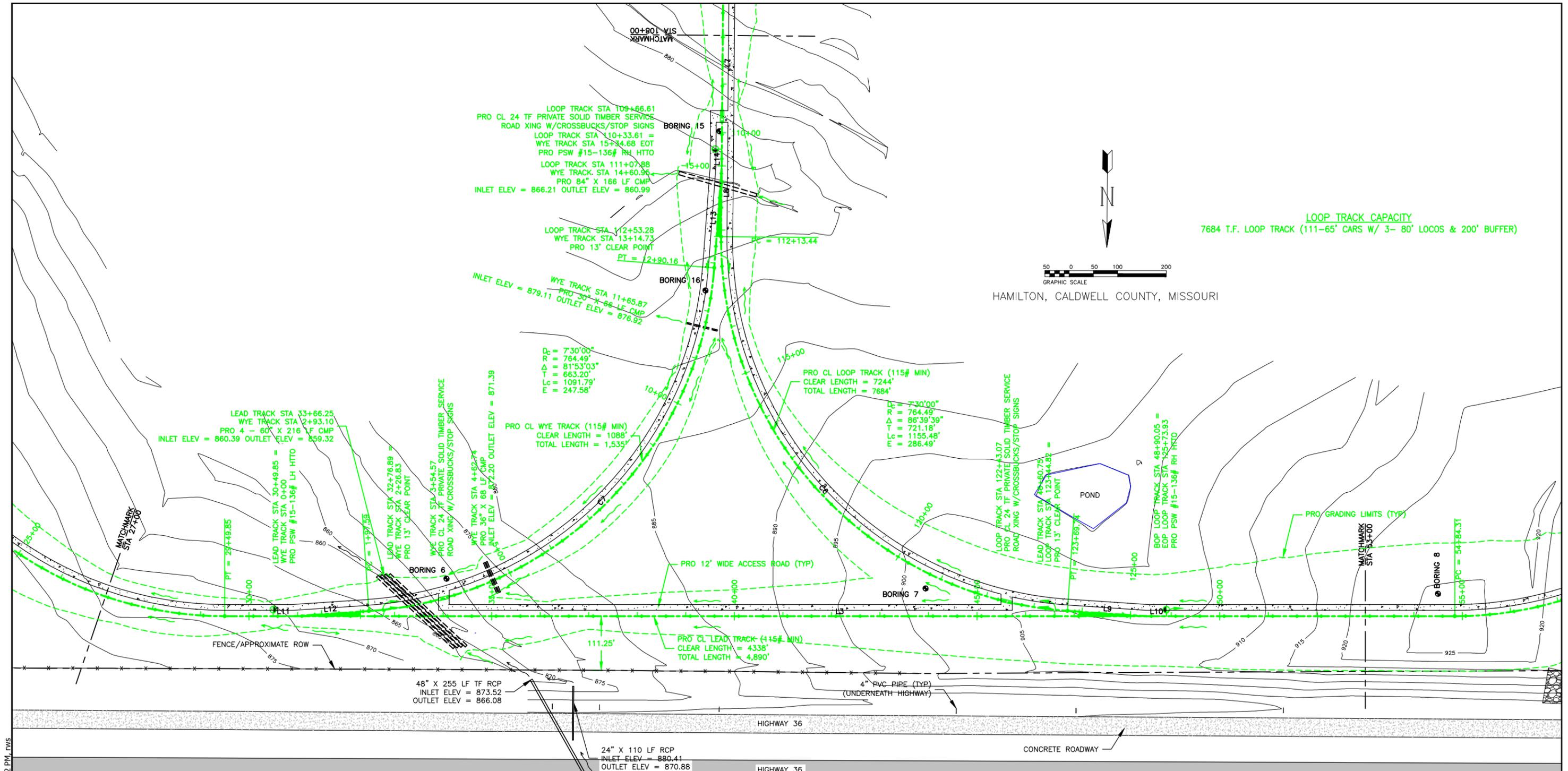
DRAWN BY:	RWS	For Use In Agreement With: <b>UNION PACIFIC RAILROAD AND MFA INC.</b> LOCATION & DESCRIPTION: <b>MP 445.33 TRENTON SUBDIVISION HAMILTON, CALDWELL COUNTY, MISSOURI TRACKAGE TO SERVE: MFA, INC.</b>
CHECKED BY:	SPH	
DATE:	12-17-15	
DRAWING NO:	15157-1	
SHEET NUMBER:	3 of 107	

S:\2015\MFA\Design\115157-1.dwg, Plan\_Sht -5-27 (50 SCALE), 12/17/2015 6:21:35 PM, rws

**PROPOSED LEAD TRACK PLAN DETAIL  
STA -3+00 - STA 12+00**

**PROPOSED LOOP TRACK  
FOR 110 CARS TO SERVICE  
MFA INC.**





**LOOP TRACK CAPACITY**  
 7684 T.F. LOOP TRACK (111-65' CARS W/ 3- 80' LOCOS & 200' BUFFER)

**PRELIMINARY  
 FOR APPROVAL**

S:\2015\MFA\Design\115157-1.dwg, Plan 27-53, 12/17/2015 6:22:32 PM, rws

**CONSTRUCTION PLANS**

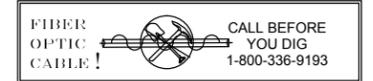
FES #:	30083
LEGEND:	
EXISTING RAILROAD OWNED TRACKAGE	
EXISTING INDUSTRY OWNED TRACKAGE	
PROPOSED RAILROAD OWNED TRACKAGE	
PROPOSED INDUSTRY OWNED TRACKAGE	
FIBER OPTIC CABLE	
PROPERTY BOUNDARY	
EXISTING FENCE	
PROPOSED FENCE	

REVISION #	BY	DATE	DESCRIPTION

DRAWN BY:	RWS	For Use In Agreement With: <b>UNION PACIFIC RAILROAD AND MFA INC.</b> LOCATION & DESCRIPTION: <b>MP 445.33 TRENTON SUBDIVISION        HAMILTON, CALDWELL COUNTY, MISSOURI        TRACKAGE TO SERVE:        MFA, INC.</b>
CHECKED BY:	SPH	
DATE:	12-17-15	
DRAWING NO:	15157-1	
SHEET NUMBER:	5 of 107	

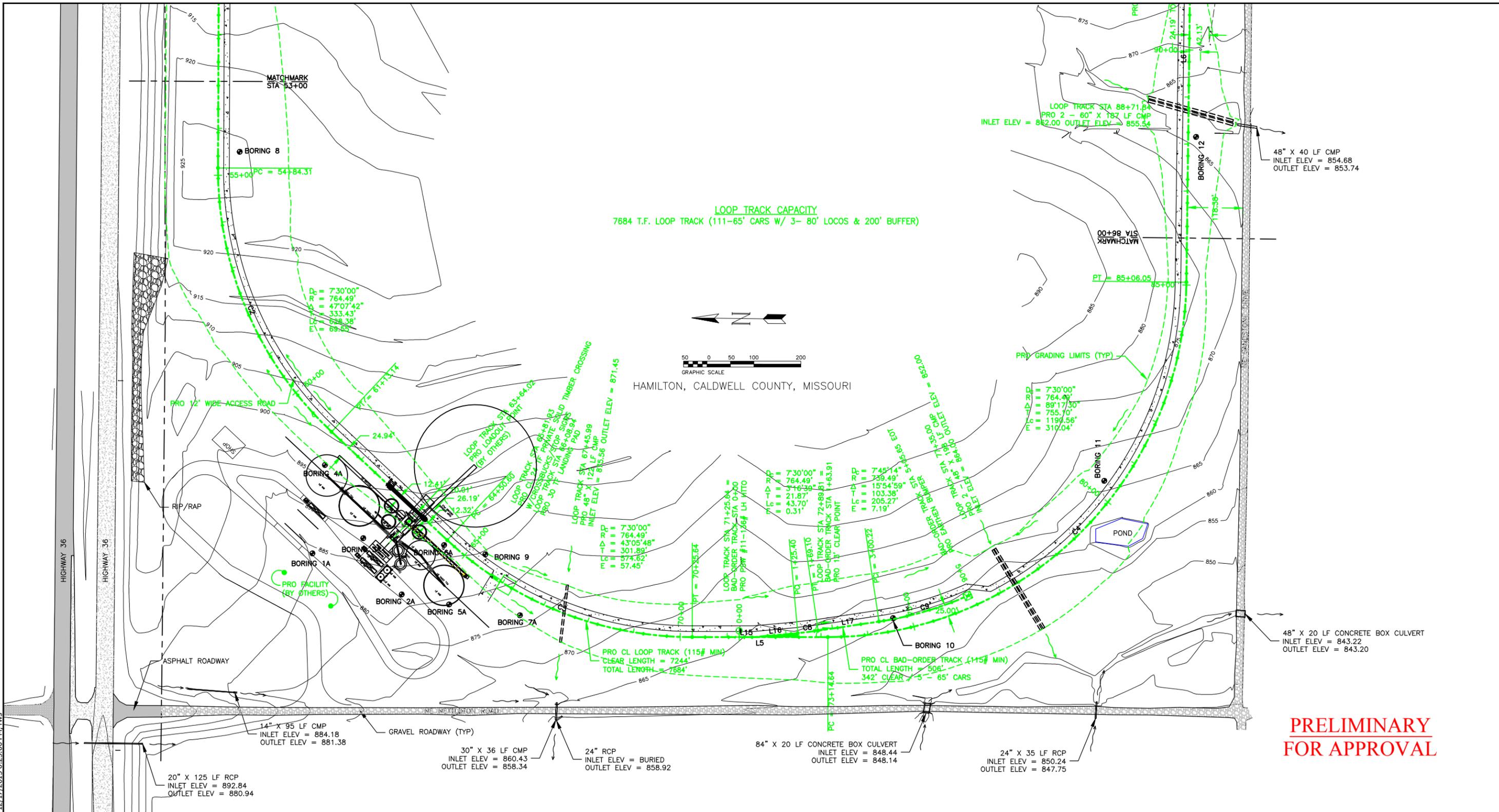
**DESIGN NINE**  
 ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY  
 11166 TESSON FERRY ROAD - SUITE 100  
 ST. LOUIS MO, 63123-6966  
 (314) 729-7600

PROPOSED LEAD/LOOP TRACK PLAN  
 STA 27+00 - STA 53+00; STA 108+00 - STA 125+73.93  
 PROPOSED WYE TRACK



PROPOSED LOOP TRACK  
 FOR 110 CARS TO SERVICE  
 MFA INC.

S:\2015\MFA\Design\115157-1.dwg, Plan 53-86, 12/17/2015 6:23:00 PM, RWS



**LOOP TRACK CAPACITY**  
7684 T.F. LOOP TRACK (111-65' CARS W/ 3- 80' LOCOS & 200' BUFFER)

HAMILTON, CALDWELL COUNTY, MISSOURI

**PRELIMINARY  
FOR APPROVAL**

**CONSTRUCTION PLANS**

FES #: 30083

- LEGEND:
- EXISTING RAILROAD OWNED TRACKAGE
  - EXISTING INDUSTRY OWNED TRACKAGE
  - PROPOSED RAILROAD OWNED TRACKAGE
  - PROPOSED INDUSTRY OWNED TRACKAGE
  - FIBER OPTIC CABLE
  - PROPERTY BOUNDARY
  - EXISTING FENCE
  - PROPOSED FENCE

REVISION #	BY	DATE	DESCRIPTION

DRAWN BY:	RWS	For Use In Agreement With: <b>UNION PACIFIC RAILROAD AND MFA INC.</b> LOCATION & DESCRIPTION: <b>MP 445.33 TRENTON SUBDIVISION HAMILTON, CALDWELL COUNTY, MISSOURI TRACKAGE TO SERVE: MFA, INC.</b>
CHECKED BY:	SPH	
DATE:	12-17-15	
DRAWING NO:	15157-1	
SHEET NUMBER:	6 of 107	

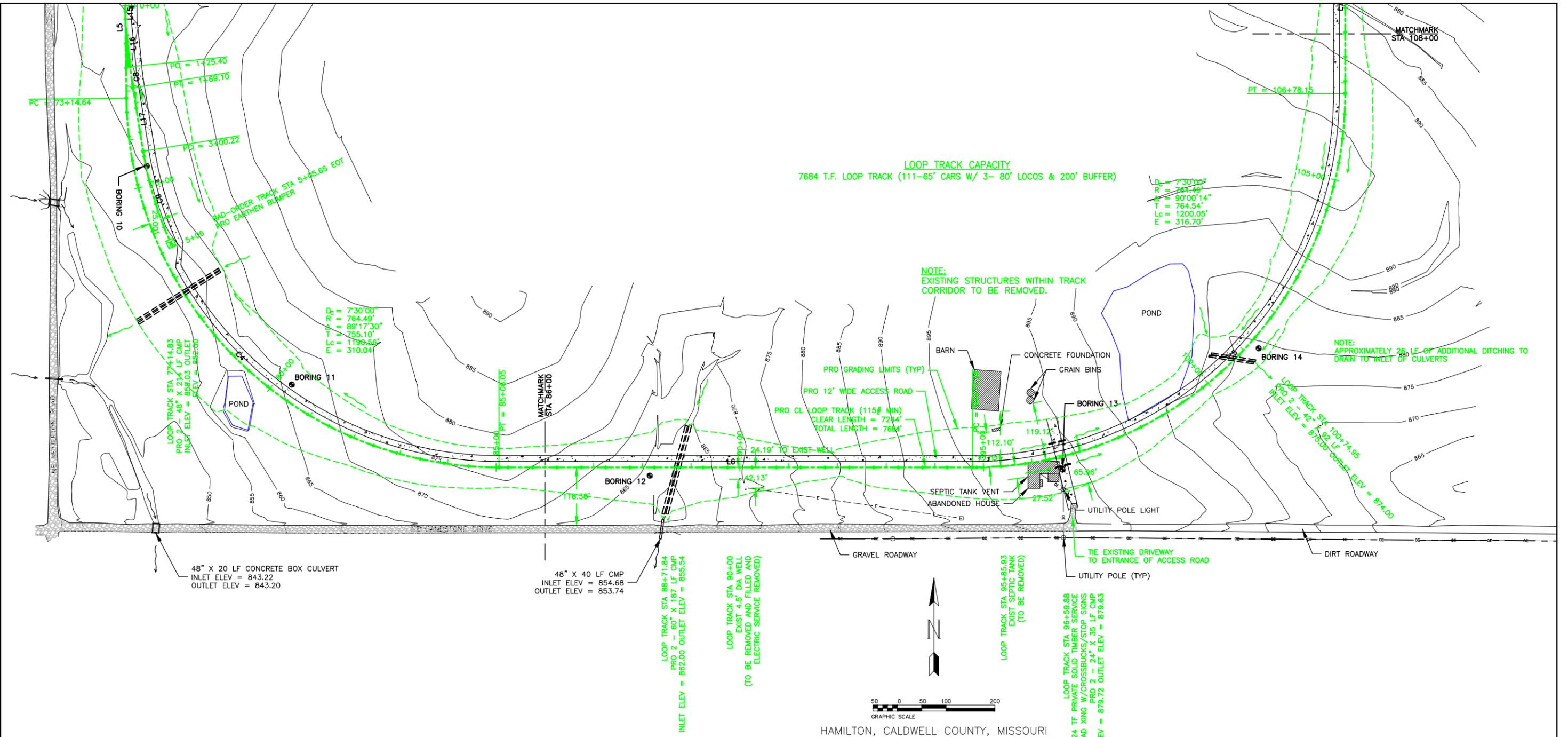
**DESIGN NINE**  
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY  
11166 TESSON FERRY ROAD - SUITE 100  
ST. LOUIS MO, 63123-6966  
(314) 729-7600

PROPOSED LOOP TRACK PLAN  
STA 53+00 - STA 86+00



PROPOSED LOOP TRACK  
FOR 110 CARS TO SERVICE  
MFA INC.

S:\2015\MFA\Design\115157-1.dwg, Plan 75-108, 12/17/2015 6:23:29 PM, rws



**PRELIMINARY  
FOR APPROVAL**

**CONSTRUCTION PLANS**

FES #:	30083
LEGEND:	
EXISTING RAILROAD OWNED TRACKAGE	
EXISTING INDUSTRY OWNED TRACKAGE	
PROPOSED RAILROAD OWNED TRACKAGE	
PROPOSED INDUSTRY OWNED TRACKAGE	
FIBER OPTIC CABLE	
PROPERTY BOUNDARY	
EXISTING FENCE	
PROPOSED FENCE	

REVISION #	BY	DATE	DESCRIPTION

DRAWN BY:	RWS	For Use In Agreement With: <b>UNION PACIFIC RAILROAD AND MFA INC.</b> LOCATION & DESCRIPTION: <b>MP 445.33 TRENTON SUBDIVISION HAMILTON, CALDWELL COUNTY, MISSOURI TRACKAGE TO SERVE: MFA, INC.</b>
CHECKED BY:	SPH	
DATE:	12-17-15	
DRAWING NO:	15157-1	
SHEET NUMBER:	7 of 107	

**DESIGN NINE**  
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY  
11166 TESSON FERRY ROAD - SUITE 100  
ST. LOUIS MO, 63123-6966  
(314) 729-7600

**PROPOSED LOOP TRACK PLAN  
STA 86+00 - STA 108+00**

FIBER OPTIC CABLE ! CALL BEFORE YOU DIG 1-800-336-9193

**PROPOSED LOOP TRACK FOR 110 CARS TO SERVICE MFA INC.**