

ADDENDUM NO. 2

March 10, 2023

TO: PLANS AND SPECIFICATIONS FOR

RAILROAD SPUR EXTENSION AND TRANS-LOAD FACILITY

Cole County Project No. 2022-701-1

EDA Award No. 05-01-06187

MHTC Project No. FRE23000312

Bidders are hereby informed that the bidding information regarding the requirements for bidding has been modified as follows:

PRE BID MEETING MINUTES

The minutes from the pre-bid meeting held on March 1, 2023 are attached and shall be included as part of the bidding documents.

GENERAL CLARIFICATIONS AND ADDITIONS

Class C Excavation – Pre-Split:

Pre-splitting of rock face benches in accordance with Section 203.4.4.1.3 Missouri Standard Specifications for Highway Construction will be required between Track A Stations 17+00 and 24+00. Pre-splitting will not be required in other locations. Due to the unknown depth of Class C material, Rock Pre-split has been included as a separate bid item. The quantity of Rock Pre-split has been estimated from the railroad cross sections assuming 4' of Class A material exists above the Class C material. The quantity of Rock Pre-split will be adjusted by change order based on the survey of the top of Class C material.

Tabulation of estimated Rock Pre-split quantities has been added to Sheet 2. Revised Sheet 2 and an updated Bid Form is attached to this Addendum.

Cross Tie Replacement:

A bid item has been added for REMOVE AND REPLACE EXSITING CROSS TIES. The County has included an allowance of 300 existing ties to be removed and replaced. The contractor shall inspect existing Track 750 from Sta. 1+37.72 (13' Clear Point) to Sta. 26+25 and make recommendation to the County for existing wood cross ties to be removed and replaced. At the County's direction, the Contractor shall remove the designated wood cross ties and replace with new wood cross ties. All removed ties shall be disposed of off-site by the contractor. All work will be completed on County owned track and no flagging of UP main line will be required. All costs associated with complying with this provision shall be included in the unit price bid for REMOVE AND

REPLACE EXISTING CROSS TIES, per each. An updated Bid Form is attached to this Addendum.

Ameresco Relocation:

Ameresco is responsible for relocating the existing methane gas main near Track A Sta. 5+00. The existing 10" polyethylene methane gas main and 16" steel casing will be purged of methane and abandoned in place. As part of the box culvert construction, the contractor shall remove any of the existing gas main and steel casing exposed during the excavation for the compacted shot rock subgrade. The contractor shall contact Ameresco prior to removing gas main to confirm absence of methane. The contractor shall be responsible for disposing of removed gas main and steel casing. All costs incurred by the contractor by complying with this provision shall be included in the lump sum price bid for "REINFORCED CONCRETE BOX CULVERT" Ameresco existing As-built plans and proposed relocation plans are attached to this Addendum.

Plan Sheet Revisions:

Plan Sheet 2 of 15 - Tabulation of Quantities: Estimate quantity for Rock Pre-Split has been added. Revised Sheet 2 of 15 is attached to this Addendum.
Railroad Sheet G003 of G006 - Scope of Work Matrix: Detailed Description/Comments for Item 1 and Item 2 shall be revised as follows: "Smsg frog 115 lb wood hb **22E** switch stand per std dwg **2136**"

Bid Form Revisions:

The following changes have been made to the Bid Form:

- Bid Item 7.00 ROCK PRE-SPLIT has been added. Item number for remaining items in Base Bid have been adjusted.
- The bid quantity for item A9.00 REALIGN EXISTING TRACK has been adjusted to take into consideration existing track to be removed and replaced with turnouts.
- Bid Item A10.00 REMOVE AND REPLACE EXISTING CROSS TIES has been added. Item number for SEED AND MULCH has changed.

An updated Bid Form is attached to this addendum.

Responses to questions received after pre-bid meeting:

Q: Does the unit price for 18" Rock Fill Base need to include the cost for the over-excavation of the subgrade, or will this be accounted for in the Class A or C unit prices?

A: The unit price for Rock Fill Base needs to include any additional excavation necessary, as well as placing the rock fill.

Q: Is track removal incidental/included in the construction of turnouts?

A: Removal of existing track should be included in the per each bid price for No. 9 Turnout.

Q: What is to be done with removed track material?

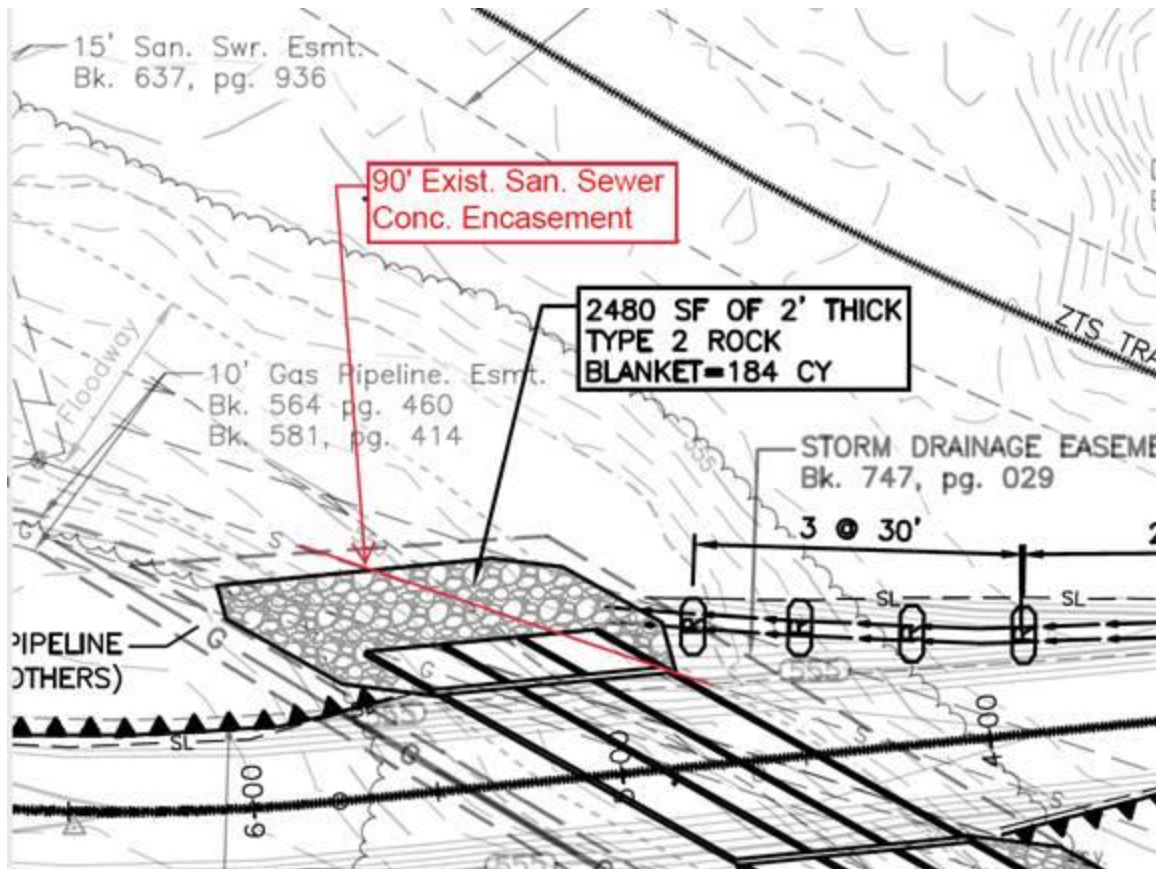
A: Removed track material shall be disposed of off-site by the contractor.

Q: UPRR Industrial Track Specifications allow for 112# Rail as a minimum section, however drawings indicate a 115# section is desired.

A: Minimum rail section shall be 115#.

Q: There is a note shown on the box culvert drainage profile that we are to encase 90 LF of an existing 10" Sanitary Sewer Main, but I do not see this called out anywhere else in the plans or specifications? Please clarify.

A: Concrete encasement shall be a minimum of 24"x24" and shall be poured around existing sanitary sewer main as shown below:



Q: Can the existing old quarry be used for a laydown area for contractors?

A: The County owns approximately 20 acres south of the proposed railroad spurs within the existing quarry which is available to use in laydown yard.

Q: In the general conditions, it states that the contractor is to carry a builder's risk insurance policy. Please verify that this is required.

A: Builder's Risk Insurance will not be required. General Conditions Section 6.04 shall be deleted in its entirety.

BY THE ORDER OF:

Eric Landwehr, P.E., Director
Cole County Department of Public Works
March 10, 2023

**Cole County
Railroad Spur Extension and Transload Facility**

**Cole County Project No. 2022-701-1
EDA Award No. 05-01-06187
MHTC Project No. FRE23000312**

**Pre-Bid Meeting Minutes
March 1, 2023**

The meeting was started at 9:00 AM in the conference room located in the office of the Cole County Commission. Eric Landwehr and Paul Samson discussed the following items:

Attendees:

<u>Name</u>	<u>Company</u>	<u>Phone</u>
Eric Landwehr	Cole County P.W.	573-636-3614
Matt Prenger	Cole County P.W.	573-636-3614
Brad Wyss	Cole County P.W.	573-636-3614
Paul Samson	C.M.P.S.	573-634-3455
Joe Turner	Bottom Line	307-231-1466
Curtis McPherson	N&J Railroad Contractors	314-381-2277
Jim Dallas	Twehous Excavating	573-395-4354
Cody McMillin	Capital Railroad Contracting	636-288-2110
Matthew Vollrath	Capital Railroad Contracting	660-621-3321
Hank Miesner	Kelly-Hill Company	816-209-9152
Ed Conlon	Kelly-Hill Company	913-915-0185
Andrew Rolf	Railworks Track Service	314-291-2233
Trent Bax	Don Schnieders Excavating	573-893-2251
Cleyton Hoover	Emery Sapp & Sons	573-445-8331

GENERAL BIDDING INFORMATION

1. Sealed proposals on the forms prepared by Cole County will be received by the County Commission, Cole County, Missouri, at the Courthouse Annex, Room 200, Jefferson City, Missouri, until **9:00 a.m., on Wednesday, March 15, 2023**, for the **Railroad Spur Extension and Transload Facility**. The proposals will be publicly opened and read aloud thereafter. Bids received after the specified time for opening will be returned unopened.
2. Prior to the time and date designated for the receipt of bids, bids may be modified or withdrawn only by notice to the County Commission at the place and prior to the time designated for receipt of bids. No bids shall be withdrawn for a period of 90 calendar days after the scheduled closing time for receipt of bids.
3. Plans and specifications may be viewed online in the bids section at www.colecounty.org. Plans and specifications can also be viewed and purchased from American Documents Solutions, www.adsplanroom.net.
4. All contractors wishing to bid on this project **SHALL** be registered on the plan holders list prepared by American Document Solutions at www.adsplanroom.net. Registration to bid

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requires the purchase of a set of plans and specifications.

5. A bid bond will be required in the amount of 5% of the bid. No personal checks will be accepted.
6. A one-year Performance and Payment Bond is required.
7. Questions regarding the plans and specifications will be taken up to 24 hours prior to the date and time of the bid opening. This will allow the County to get the information out to all of the bidders. General questions regarding the bidding process will be answered up to the time of the opening.
8. Addenda may be issued on this project at any time up to 24 hours prior to the bid date and time. It shall be the responsibility of the contractor to verify if any addenda have been issued prior to submitting their bid. The County assumes no liability if a contractor fails to incorporate addenda into their bid. **Addenda will be posted on the Cole County website and in the ADS plan room and will NOT be faxed.**
9. Prevailing wage rates are required on this project. Wage rates are included from the Missouri Division of Labor Standards and U.S. Department of Labor.
10. The right is reserved by Cole County to reject any and all bids and to waive informalities therein.
11. Bids shall be submitted on the Proposal Form furnished by the County. All blank spaces shall be filled in on the forms by typewriter or by handwriting in ink. The bidder shall make no other stipulations in the bid form or qualify his bid in any manner. The bids shall be submitted in an opaque sealed envelope marked "**Railroad Spur Extension and Transload Facility – Project No. 2022-701-1, Construction Bid**" and shall be clearly marked with the bid date, bid time and bidder's name and address.
12. The County will accept computer generated spreadsheets for the unit price items to help alleviate problems with computation mistakes. If a spreadsheet is used, it shall be in the same format as the one included in the proposal. The sheet shall be inserted in front of the one included in the proposal form.
13. The Notice to Proceed date is anticipated to be May 1, 2023. If awarded the contract, the Contractor agrees to complete the work within **245 calendar days** from the Notice to Proceed date. This will put the completion date near the end of the year.
14. **Liquidated damages** shall be **\$2,000.00** per day for failure to complete the project within the 245 calendar days.
15. Simultaneously with the delivery of the executed contract, the Contractor shall furnish a surety bond in the amount of 100% of the total contract sum, as security for both faithful performance of the contract and for the payment of all persons performing labor on the project under this contract as specified in the contract documents.

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16. Do NOT include federal excise tax or sales and use taxes in the bid prices. This project will be a SALES TAX EXEPMT project. A copy of the federal tax exemption certificate will be furnished.
17. There are currently two grants received by the county for this project. Both have specific deadlines that have been considered when preparing this project. The MoDOT FRE grant requires invoices to be submitted for reimbursement by June 15, 2023. The first item of business of the awarded contractor after receiving notice to proceed will be to order rail materials and request payment on stored materials.
18. A certification regarding lobbying is a required component of the bid proposal submittal.
19. This project has a goal of minority participation of 4% and female participation of 6.9%.

UTILITIES

All utility companies that are in the area are listed on the plans

Ameresco has a methane pipeline that will require relocation as part of the project. They will do the work themselves and hope to be done before notice to proceed is given on this project.

STANDARD GENERAL CONDITIONS

The standard general conditions of this project are those prepared by the EJCDC (Engineer's Joint Contract Committee) as recommend by EDA

TECHNICAL SPECIFICATIONS AND STARNDARD PLANS

The Technical Specifications for this project shall consist of the currently effective version of:

- Union Pacific Railroad "*Technical Specifications for Construction of Industrial Tracks*"
- Missouri Standard Specifications for Highway Construction (MSSHHC), Sections 201-1092
- Missouri Standard Plans for Highway Construction (MSPHC)
- City of Jefferson Technical Specifications
- City of Jefferson Standard Drawings

except as modified or contradicted by the County's Contract, Job Special Provisions, General Provisions and Plans.

JOB SPECIAL PROVISIONS

1. The provisions of this section take precedence over any other provisions in the specifications. Please read this section as project specific requirements are detailed.
2. JSP F Permits – County has a countywide land disturbance permit. SWPPP is in the

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- document. The county will do the inspections, reports and logs. Contractor will have to do all erosion control associated with this. There is a USACE nationwide permit for the stream crossing.
3. JSP I Workzone Traffic Management – Work will be along Stertzzer Road. There will lane closures associated with this. Contractor will need to coordinate with the City of Jefferson and landowners.
 4. JSP N Earthwork – Total earthwork quantities are split out. Class C and Class A excavation are specified and are estimated by test pits that were done. Once dirt is stripped down to rock, we will survey cross sections to determine exact Class C and Class A quantities.
 5. JSP O Rock Base – 18” thick rock base is required at two sections where railroad tracks are in “bottom ground”. The rest of the embankment is specified to be shot rock fill.
 6. JSP P Stormwater Drainage System – Shall be constructed per Jefferson City Standards
 7. JSP Q Reinforced Concrete Box Culvert – There is a triple cell box culvert that crosses a jurisdictional stream. There are a full set a detailed plans within the plan set. There is a pad that goes underneath the box. All costs associated with the box will be paid per lump sum.
 8. JSP S EDA Project Sign – This section details requirements for a signed needed as required with the EDA grant.

PLANS

1. The project is a public private partnership with a company building an asphalt oil offloading facility. The plans show a north site plan (private) and south site plan (public) at the transload facility. Because some work will be done simultaneously by both this contract and the private contract, there are notes shown on the plans for work by others just for clarification.
2. The first few sheets are the overall site plan and there are details for the driveways.
3. The next sheets show grading and erosion control plans. There is one small section of rail on the east side of Militia Drive and south of Command Web. This is a runaround track and shown on the bid form as an alternate. We anticipate accepting the alternate but need to split out the quantities for accounting purpose.
4. The section of track F behind Command Web has the rock fill base and also the section from station 0+00 to about 15+00.
5. All fills shall be constructed with shot rock and dirt will be excess material.
6. Next section of the plans show the storm drainage profiles.
7. The pad under the box culvert will be a geogrid and 3’ shot rock subgrade. There is rock blanket upstream and downstream from the box culvert.
8. There is a detention basin with a slide gate on the outlet pipe so it can be closed off. The purpose of this that the basin also services as an emergency holding area if the oil tanks fail.
9. Next sheets show utility plans for sanitary sewer, conduit for electric and telephone and coordinating with Ameren for gas line installation and construction of a water line extension. There are fire hydrants, utility sleeves for future work and sewer laterals and pull boxes for electric.
10. There is a plan profile sheet specific to the sanitary sewer.
11. Next sheet shows a traffic control plan for work impacting Stertzzer Road.
12. Next sheets show box culvert and water line plans.

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13. Last plans sheets are railroad design plans were done by Design Nine.

MISCELLANEOUS INFORMATION

1. Union Pacific uses a third party to review drawings and do final inspection.
2. A clearing contract is currently being completed in order to avoid the Indiana Bat issue. This will be closed out prior to notice to proceed.
3. There will be a groundbreaking for this project in late April or early May. The awarded contractor will need to have some equipment on site to do this.

QUESTIONS AND ANSWERS DURING THE MEETING

Q1. Do subcontractors have to register on the ADS website?

A1. NO only contractors wanting to bid on the project as the prime need to register on ADS.

Q2. Is the excavation needed for the Rock Fill Base figured in the excavation quantities?

A2. NO this excavation is part of the bid item for rock base and needs to be figured separately. The Rock Fill Base bid item will need to include excavation, furnishing and placing.

Q3. The plans call for RCP but JSP's state that HDPP pipe can be used as a substitute. Is this correct?

A3. YES HDPP can be substituted for RCP.

Q4. Is there any coating on the steel pipe that goes under the railroad?

A4. NO just smooth interior wall.

Q5. How do you access the work area east of Militia Drive?

A5. The contractor will have to arrange for that but most likely will need to use Command Web's west parking lot and build a temporary road. They are aware of the work being done.

Q6. For the conduit for the electric and telephone, what type pipe is to be used?

A6. Whatever the utility allows for their specs?

Q7. Will water district need to test waterline before putting into service.

A7. YES.

Q8. What kind of traffic does the current spur have?

A8. There are two services right now. UP serves them 2 to 3 days per week. There are roughly 10 cars or less per week.

Q9. Do the rock cuts need to be pre-split?

A9. Will do some more checking on this but most likely we will want to do that. Will likely do a separate bid item for that.

Q10. Does material need to be American made?

A10. To the greatest extent practical, contractors are encouraged to buy American. This is stated in the specs.

Q11. Can you provide the CAD file for the grading?

A11. YES

Q12. Who will be responsible for construction staking?

A12. The county will provide that through CMPS.

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ESL:el

CC: File
Attendees
Planholders

**RAILROAD SPUR EXTENSION & TRANSLOAD FACILITY
 COLE COUNTY PUBLIC WORKS
 COLE COUNTY PROJECT NO. 2002-710-1
 EDA AWARD NO. 05-01-06187
 MHTC PROJECT NO. FRE23000312**

REVISED-ADENDUM#2

BASE BID - SECTION A (EDA GRANT FUNDED)					
ITEM	DESCRIPTION	UNITS	NO. OF UNITS	UNIT PRICE	AMOUNT
1.00	MOBILIZATION	LS	1	\$	\$
2.00	EROSION AND SEDIMENT CONTROL	LS	1	\$	\$
3.00	TRAFFIC CONTROL	LS	1	\$	\$
4.00	3-CELL 11' X 5' REINFORCED CONCRETE BOX CULVERT	LS	1	\$	\$
5.00	CLASS A EXCAVATION	CY	45,324	\$	\$
6.00	CLASS C EXCAVATION	CY	33,586	\$	\$
7.00	ROCK PRE-SPLIT	SY	2,604		
8.00	EMBANKMENT IN PLACE	CY	27,764	\$	\$
9.00	18" ROCK FILL BASE	CY	1,470	\$	\$
10.00	SUBBALLAST	CY	3,804	\$	\$
11.00	CONSTRUCT RAILROAD TRACK	TF	6,350	\$	\$
12.00	NO. 9 TURNOUT	EA	3	\$	\$
13.00	SLIDING DERAIL W/ WHEEL CROWDER	EA	1	\$	\$
14.00	EARTHEN BUMPER	EA	3	\$	\$
15.00	4'X4' DETENTION BASIN OUTLET STRUCTURE	EA	1	\$	\$
16.00	4'X3' TYPE A INLET	EA	1	\$	\$
17.00	4'X4' AREA INLET	EA	1	\$	\$
18.00	3'X3' JUNCTION BOX	EA	1	\$	\$
19.00	36" SMOOTH STEEL PIPE (1/2" Thick)	LF	80.0	\$	\$
20.00	18" CL III RCP	LF	425.9	\$	\$
21.00	24" CL III RCP	LF	21.4	\$	\$
22.00	30" CL III RCP	LF	119.5	\$	\$
23.00	36" CL III RCP	LF	38.8	\$	\$
24.00	18" RCP FLARED END SECTION	EA	1	\$	\$
25.00	24" RCP FLARED END SECTION	EA	1	\$	\$
26.00	30" RCP FLARED END SECTION	EA	2	\$	\$
27.00	36" RCP FLARED END SECTION	EA	1	\$	\$
28.00	6" TYPE 5 AGGREGATE BASE	SY	6,702.7	\$	\$
29.00	3" AGGREGATE SURFACE	SY	10,785.7	\$	\$
30.00	8" NON-REINFORCED CONCRETE PAVEMENT	SY	520.4	\$	\$
31.00	EROSION CONTROL BLANKET	SY	2,305.8	\$	\$
32.00	TURF REINFORCEMENT MAT	SY	78.4	\$	\$
33.00	SCOUR PROTECTION MAT	SY	46.2	\$	\$
34.00	TYPE 2 ROCK BLANKET	CY	366.0	\$	\$
35.00	TYPE 2 ROCK DITCH LINER	CY	74.0	\$	\$
36.00	SEED AND MULCH	LS	1.0	\$	\$
37.00	ALLOWANCE - TRENCH ROCK EXCAVATION	CY	100.0	\$	\$
SUBTOTAL BASE BID - SECTION A					\$

CONTINUED ON NEXT PAGE

BASE BID - SECTION B (EXCLUDED FROM EDA GRANT)

ITEM	DESCRIPTION	UNITS	NO. OF UNITS	UNIT PRICE	AMOUNT
38.00	SANITARY SEWER MANHOLE (4' DIA)	EA	4	\$	\$
39.00	8" SDR 35 PVC SEWER MAIN	LF	789.34	\$	\$
40.00	SANITARY SEWER CONCRETE ENCASEMENT	LF	20.0	\$	\$
41.00	SANITARY SEWER 6" PVC WYE FITTING	EA	2	\$	\$
42.00	8" PR200 PVC WATER LINE (Incl. fittings, thrust blocks, locator wire)	LF	1,240.8	\$	\$
43.00	12" X 8" TAPPING SLEVE AND VALVE	EA	1	\$	\$
44.00	FIRE HYDRANT ASSEMBLY	EA	5	\$	\$
45.00	WATER DETAIL W1-1 (Excluding Fire Hydrant Assembly)	EA	1	\$	\$
46.00	JOINT UTILITY TRENCH	LF	1,239.1	\$	\$
47.00	5' X 3' ELECTRIC PULLBOX	EA	2	\$	\$
48.00	12" SDR 35 PVC WATER SLEEVE, CAPPED	LF	50.0	\$	\$
SUBTOTAL BASE BID - SECTION B					\$

TOTAL BASE BID (SECTION A + SECTION B)					\$
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ALTERNATE #1 BID

ITEM	DESCRIPTION	UNITS	NO. OF UNITS	UNIT PRICE	AMOUNT
A1.00	EROSION AND SEDIMENT CONTROL	LS	1	\$	\$
A2.00	CLASS A EXCAVATION	CY	1,068	\$	\$
A3.00	EMBANKMENT IN PLACE	CY	81	\$	\$
A4.00	18" ROCK FILL BASE	CY	862	\$	\$
A5.00	SUBBALLAST	CY	279	\$	\$
A6.00	CONSTRUCT RAILROAD TRACK	TF	668.0	\$	\$
A7.00	NO. 9 TURNOUT	EA	2	\$	\$
A8.00	SLIDING DERAIL W/ CROWDER	EA	1	\$	\$
A9.00	REALIGN EXISTING TRACK	TF	912.0	\$	\$
A10.00	REMOVE AND REPLACE EXISTING CROSS TIES	EA	300		
A11.00	SEED AND MULCH	LS	1	\$	\$
TOTAL ALTERNATE #1 BID					\$

TOTAL BASE BID + ALTERNATE #1 BID					\$
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STORM DRAINAGE INLETS						
STRUCTURE	LOCATION	4'X4' OUTLET STRUCTURE (EA)	TYPE A / AD INLETS 4' X 3' (EA)	AREA INLET 4'X4' (EA)	JUNCTION BOXES 3' X 3' (EA)	REMARKS
DI-1	ELIMINATED					
DI-2	ELIMINATED					
DI-3	ELIMINATED					
DI-4	5+61.97, 22.89' LT. DRIVE 2			1		
JCT-5	7+97.85, 20.00' LT. DRIVE 2				1	
DI-6	9+80.00, 20.00' LT. DRIVE 2		1			
OUTLET	DETENTION BASIN	1				Includes 8" PVC PIPE & Slide Gate
TOTAL		1	1	1	1	

AGGREGATE BASE, SURFACE & PAVEMENT						
STATION TO STATION	LOCATION	LENGTH (STA)	6" TYPE 5 AGGR. BASE (SY)	3" SURFACE AGGR. (SY)	8" NON-REINF. PCCP (CY)	REMARKS
0+00.00	0+78.58	DRIVE 1	543.1		520.4	
0+78.58	3+59.76	DRIVE 1	281.18	952.9	937.3	
DRIVE 1 / DRIVE 2 INTERSECTION			684.3	676.4		
4+85.45	6+00.00	DRIVE 1	114.55	388.2	381.8	
0+62.97	5+58.86	DRIVE 2	495.89	1680.5	1653.0	
5+58.86	7+84.75	DRIVE 2	2453.7	2437.2		Includes Driveway Radii
	TRACK C DRIVE	630.00		2100.0		
	TRACK B DRIVE	780.00		2600.0		
TOTAL			6,702.7	10,785.7	520.4	

SANITARY SEWER						
STRUCTURE	PIPE RUN	SANITARY SEWER MANHOLE (EA)	8" SDR 35 PVC PIPE (LF)	CONCRETE ENCASEMENT (LF)	6" PVC SERVICE WYE (EA)	REMARKS
MH A-1		1				Doghhouse Manhole
	MH A-1 TO MH A-2		241.40	10.0	1	
MH A-2		1				
	MH A-2 TO MH A-3		271.33	10.0		
MH A-3		1				
	MH A-3 TO MH A-4		276.61		1	
MH A-4		1				Includes 8" PVC Stub
TOTAL		4	789.34	20.0	2	

EARTHWORK (BASE BID)						
STATION TO STATION	LOCATION	CLASS A EXCAVATION (CY)	CLASS C EXCAVATION (CY)	EMBANKMENT (CY)	18" ROCK FILL BASE (CY)	REMARKS
0+00	3+00.00	63	0	84	314	
3+00.00	7+50.00	859	0	2,804	0	
7+50.00	11+50.00	2,512	0	80	578	
11+50.00	13+50.00	139	0	424	0	
13+50.00	17+50.00	2,165	0	79	578	
17+50.00	23+50.00	7,898	20,244	0	0	
23+00.00	27+00.00	1,886	0	1,036	0	
27+00.00	28+50.00	663	667	612	0	
28+50.00	34+00.00	331	0	13,357	0	
34+00.00	37+50.00	4,861	10,940	2,600	0	
37+50.00	39+00.00	2,972	0	0	0	
39+00.00	40+50.00	3,629	1,735	0	0	
40+50.00	45+62.91	12,472	0	0	0	
	County Transload Site	4,874	0	6,688	0	
BASE BID TOTAL		45,324	33,586	27,764	1,470	

See Track Plans Sheet X034 for earthwork end area calculations. Quantities for Class A and Class C excavation have been estimated for bid purposes. The County survey top of ground elevations following clearing and top of rock elevations following soil stripping. Class A and Class C excavation quantities will be adjusted via change order based on these surveys.

EARTHWORK (ALTERNATE #1 BID)						
STATION TO STATION	LOCATION	CLASS A EXCAVATION (CY)	CLASS C EXCAVATION (CY)	EMBANKMENT (CY)	18" ROCK FILL BASE (CY)	REMARKS
15+47.03	24+27.45	1068	0	81	862	
ALTERNATE #1 BID TOTAL		1068	0	81	862	

See Track Plans Sheet X034 for earthwork end area calculations.

STORM DRAINAGE PIPES												
STRUCTURE TO STRUCTURE	LOCATION	36" SMOOTH STEEL PIPE 1/2" Thick (LF)	CL III REINFORCED CONCRETE PIPE				REINFORCED CONCRETE FLARED END SECTIONS				REINFORCED CONCRETE BOX CULVERT 3-11'X5' (LS)	REMARKS
			18" (LF)	24" (LF)	30" (LF)	36" (LF)	18" (EA)	24" (EA)	30" (EA)	36" (EA)		
	4+78.26	TRACK A	80.00								1	See Job Special Provisions
FES TO DI-4	30+86.86	TRACK A			42.20					1		
DI-4 TO FES	DRIVE 2				77.28					1		
FES TO DI-5	DRIVE 2		246.89					1				
DI-5 TO DI-6	DRIVE 2		179.00									
DI-6 TO FES	DRIVE 2		21.38					1				
	DETENTION BASIN									1		
TOTAL		80.0	425.9	21.4	119.5	38.8	1	1	2	1	1	

DITCH LINERS							
STATION TO STATION	LOCATION	EROSION CONTROL BLANKET (SY)	TURF REINFORCEMENT MAT (SY)	SCOUR PROTECTION MAT (SY)	TYPE 2 ROCK BLANKET (CY)	TYPE 2 ROCK DITCH LINER (CY)	REMARKS
4+78	TRACK A	LT.			182.0		
4+64	5+87	TRACK A	LT.			74.0	
5+87	16+87	TRACK A	LT.	1955.6			
30+86	TRACK A	RT.	11.1	11.1			
28+84	30+81	TRACK A	RT.	350.2			
5+60	DRIVE 2	LT.	27.8	13.3			
10+00	DRIVE 2	LT.	11.1	11.1			
	DETENTION OUTLET		28.4	10.7			
TOTAL		2,305.8	78.4	46.2	366.0	74.0	

UTILITIES									
STATION TO STATION	LOCATION	8" PR200 PVC WATER LINE (LF)	FIRE HYDRANT ASSEMBLY (EA)	WATER DETAIL W1-1 (EA)	12"X8" TAPPING SLEEVE & VALVE (EA)	12" SDR 35 PVC WATER SLEEVE (LF)	JOINT UTILITY TRENCH (LF)	5' X 3' ELECTRIC PULL BOX (EA)	REMARKS
	3+17	DRIVE 2				50.0			
	3+64	DRIVE 2					87.0	1	
3+89.82	6+76.14	DRIVE 2 LT.	282.0	1			282.0		
6+76.14	12+33.66	DRIVE 2 LT.	568.5	2			568.5		
12+33.66	15+29.83	DRIVE 2 LT.	248.9	1	1				
12+33.66	15+34.51	DRIVE 2 LT.					301.6	1	
TOTAL		1,240.8	5	1	1	50.0	1,239.1	2	

RAILROAD ITEMS (BASE BID)			
SUB-BALLAST	3,804	CY	See Sheet X035 for Tabulation
CONSTRUCT RAILROAD TRACK	6,350	TF	Track A, Track B, & Track C
NO. 9 TURNOUT	3	EA	
SLIDING DERAIL W/ WHEEL CROWDER	1	EA	
EARTHEN BUMPER	3	EA	

RAILROAD ITEMS (ALTERNATE #1)			
SUB-BALLAST	279	CY	See Sheet X035 for Tabulation
CONSTRUCT RAILROAD TRACK	668	TF	Track F
NO. 9 TURNOUT	2	EA	
SLIDING DERAIL W/ WHEEL CROWDER	1	EA	
REALIGN EXISTING TRACK	1,128	TF	Track 750

ROCK PRE-SPLIT			
STATION	LOCATION	PRE-SPLIT FACE LENGTH (FT)	PRE-SPLIT FACE AREA (SY)
17+00.00	Track A	0.00	
17+50.00	Track A	5.38	15
18+00.00	Track A	13.00	51
18+50.00	Track A	29.96	119
19+00.00	Track A	54.39	234
19+50.00	Track A	80.81	376
20+00.00	Track A	78.95	444
20+50.00	Track A	64.72	399
21+00.00	Track A	51.12	322
21+50.00	Track A	35.86	242
22+00.00	Track A	22.36	162
22+50.00	Track A	13.88	101
23+00.00	Track A	11.52	71
23+50.00	Track A	6.4	50
24+00.00	Track A	0	18
BASE BID TOTAL		2604	

Rock pre-split face length has been measured from track cross sections with a deduction of 4' made for assumed Class A material thickness. Rock face pre-split will only be required at locations detailed above.

NOTE: QUANTITIES TABULATED ON THIS SHEET ARE ITEMS THAT ARE TO BE INCLUDED IN THE COUNTY CONTRACT. ITEMS TO BE CONSTRUCTED BY OTHERS ARE NOT TABULATED.

PRINTS ISSUED

2/8/23

REVISIONS:
#1 - Add. #2

Central Missouri Professional Services, Inc.
ENGINEERING - SURVEYING - MATERIALS TESTING
2500 E. MCCARTY
JEFFERSON CITY, MISSOURI 65101

(573) 634-3455
(573) 634-8898



2/8/23
Paul Samson, PE - Engineer
MO# PE-2002016730

RAILROAD SPUR EXTENSION
& TRANS-LOAD FACILITY
COLE COUNTY PUBLIC WORKS
ALGOA ROAD
JEFFERSON CITY, COLE COUNTY, MISSOURI

CMPS JOB No. 77-185

DRN. BY: P.L.S. CKD. BY: P.L.S.

SCALE: N.T.S.

SHEET TITLE

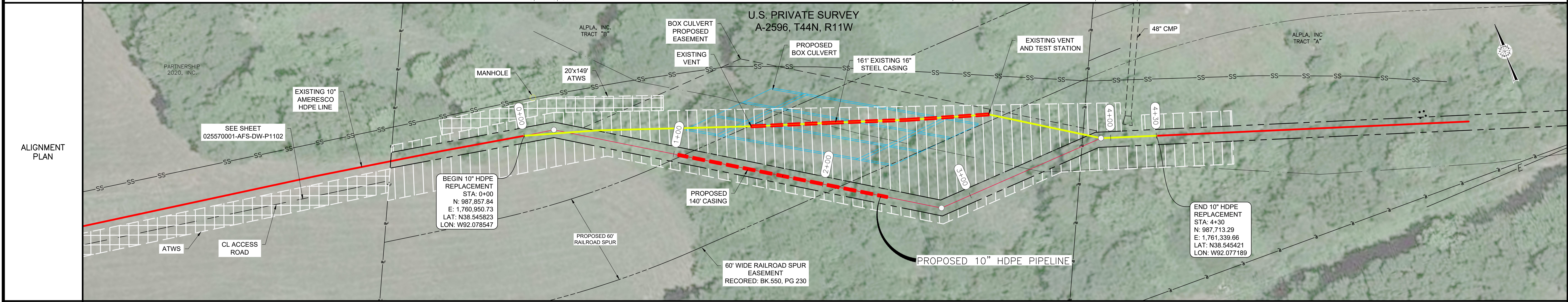
TABULATION OF QUANTITIES

SHEET NUMBER

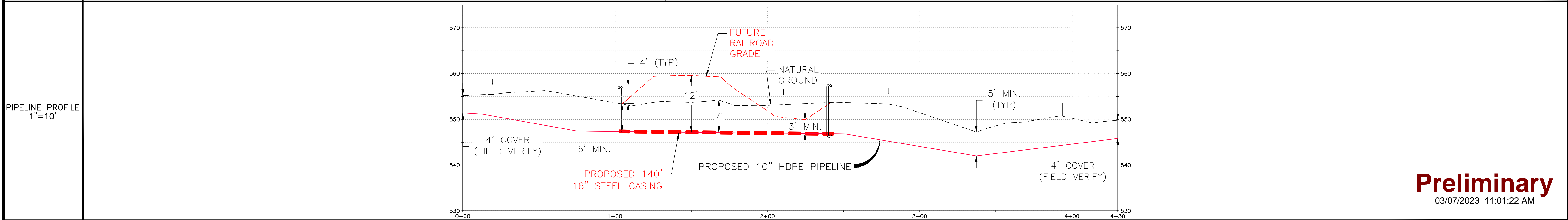
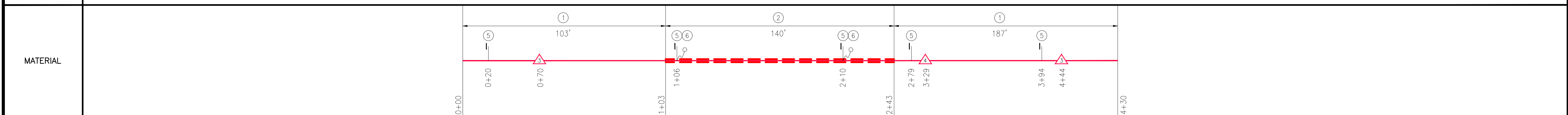
2

OF 15 SHEETS

COUNTY/PARISH	CITY OF JEFFERSON, COLE COUNTY, MISSOURI			
TRACT NO.				
OWNERSHIP		ALPLA, INC TRACT "B"		ALPLA, INC TRACT "A"
RODS	0+00	23.0	3+80	44+30
EASEMENT WIDTH	10'			
LAND USE/TERRAIN				
PIPE STATIONING	0+00 BEGIN STA. @ AS-BUILT PIPELINE STA. 71+05 0+20 P.L. <22248.24" RT. 0+20 PIPELINE MARKER 0+29 EXISTING PIPELINE (TO BE REMOVED) 1+03 BEGIN 16" STEEL CASING 1+04 3" VENT 1+06 R.O.W. LINE 1+06 PIPELINE MARKER & TEST STATION 2+10 PIPELINE MARKER & TEST STATION 2+10 R.O.W. LINE 2+42 3" VENT 2+43 END 16" STEEL CASING 2+79 P.L. <35000.00" LT. 2+79 PIPELINE MARKER 3+37 CL OF CREEK 3+80 PROPERTY LINE 3+84 EXISTING PIPELINE (TO BE REMOVED) 3+84 P.L. <2108.12" RT. 3+84 PIPELINE MARKER 4+30 END STA. @ AS-BUILT PIPELINE STA. 76+85			



DESIGN FACTOR	
DEPTH OF COVER (FT.)	
COATING	



Preliminary
03/07/2023 11:01:22 AM

MATERIAL SUMMARY			MATERIAL SUMMARY		
ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.
1	PIPE, 10.75" O.D., PE3408 OR PE4710, SORT17, BUTT FUSION, W/ YELLOW STRIPE FOR GAS SERVICE	290'			
2	CASING PIPE, 16" O.D., 0.312, PEB, API 5L - PSL2, GR. B, CARBON STEEL, COATED T80	140'			
3	BLOW 25 DEG. 10.75" O.D., SWEET OR WY BAKES, PE3408 OR PE4710, SORT17, BUTT FUSION, W/ YELLOW STRIPE FOR GAS SERVICE	2			
4	BLOW 35 DEG. 10.75" O.D., SWEET OR WY BAKES, PE3408 OR PE4710, SORT17, BUTT FUSION, W/ YELLOW STRIPE FOR GAS SERVICE	1			
5	PIPELINE MARKER	5			
6	TEST STATION	2			

LEGEND	
⊕	Road
⊙	Creek
⊗	Fence
⊖	UG Cable
⊕	UG Power
⊖	OH Pwr/Tele
⊕	Railroad
⊙	Utility Tower
⊖	UG Telephone
⊕	Foreign Pipeline
⊖	Property Line
⊗	Property/Fence Line
⊖	ROW Line
⊕	Survey Line
⊖	Property/Survey Line
⊗	ROW/Fence Line
⊕	Survey/Property/Fence Line
⊖	Survey/Fence Line
⊕	County Line
⊗	Silt Fence
⊕	Interstate Highway
⊖	US Highway
⊕	State Highway
⊖	FM Highway
⊕	Tract Number
⊖	Permanent Marker Plate
⊕	Exist Pipeline Marker
⊖	Bond Box
⊕	Aerial Marker
⊖	Meter
⊕	Rectifier
⊖	Vent
⊕	Exist Test Station
⊖	Test Station
⊕	Pipeline Marker
⊖	Doubled Faced Pipeline Marker

NO.	DATE	REVISION	BY	APPD.
A	02/20/23	ISSUED FOR REVIEW	FM	JA
B	03/01/23	UPDATED ROUTE	FM	JA
C	03/06/23	PROFILE UPDATE	FM	JA

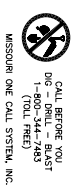
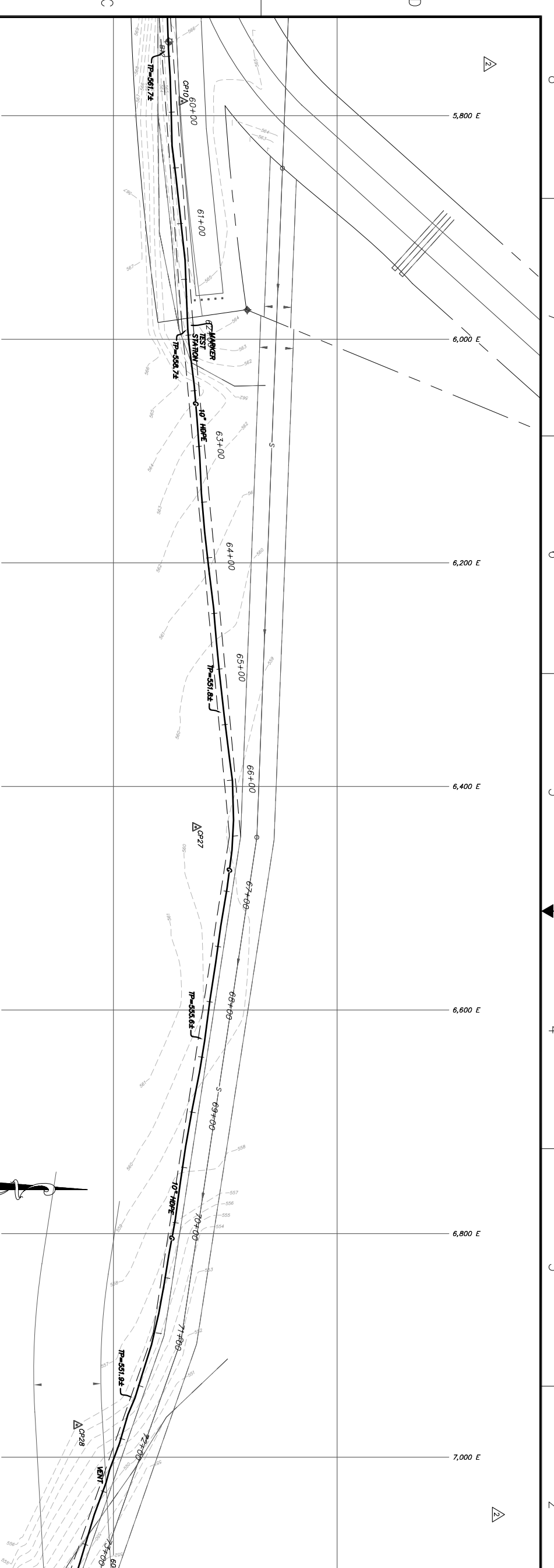
audubon
Field Solutions
10205 WESTHEIMER ROAD
SUITE 100
HOUSTON, TEXAS 77042
PHONE: (281) 669-0590

SCALE PLAN
0 30
1"=30'

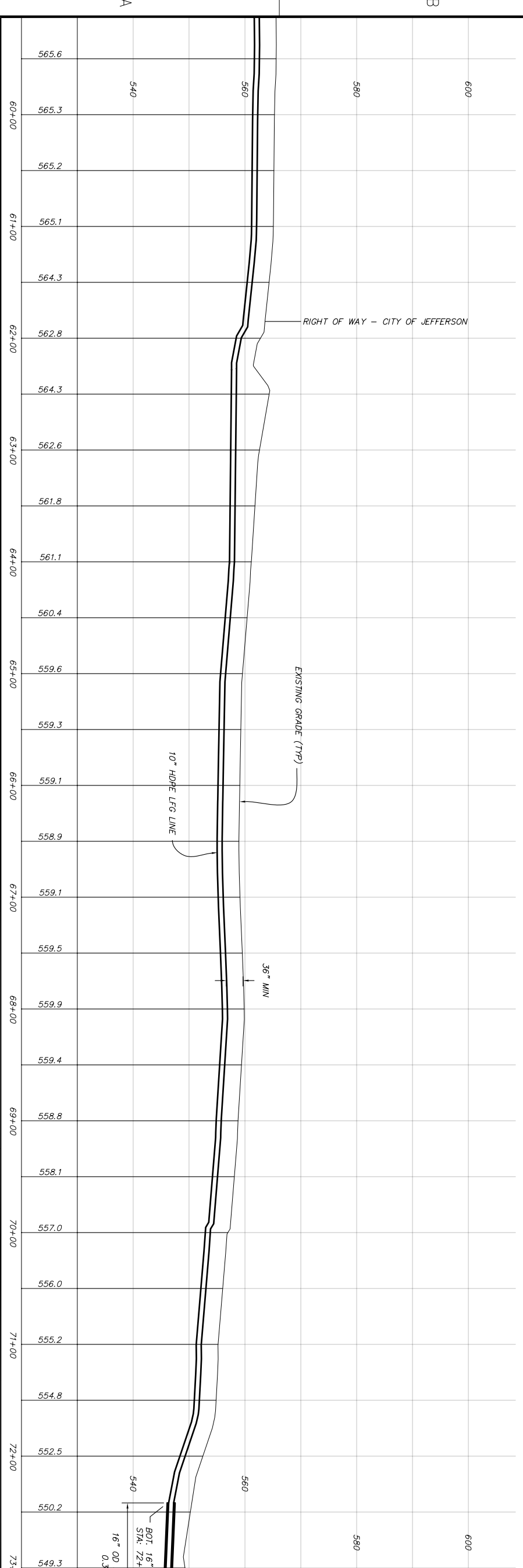
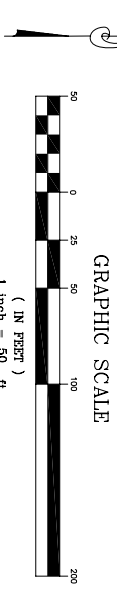
AMERESCO		
ALIGNMENT SHEET		
JEFFERSON CITY PIPELINE RELOCATION PROPOSED 10" HDPE PIPELINE		
DRAWN BY: FM	DATE: 02/20/23	STA 0+00
CHECKED BY: JA	DATE: 02/20/23	STA 4+30
APPROVED BY: JA	DATE: 02/20/23	SCALE: 1"=30'
	DRAWING NO: 025570001-AFS-DW-P1101	REV: C

LANDFILL GAS (LFG) LINE
GENERAL NOTES:

1. SEE SHEET 001 FOR SURVEY AND UTILITY INFORMATION.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION, DEPTH, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. FINAL LOCATION OF LFG LINE AND APPURTENANCES SHALL BE DETERMINED BY FIELD CONDITIONS, AS APPROVED BY THE ENGINEER OR THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN MINIMUM DEPTHS AND CLEARANCES AT ALL TIMES.
4. LFG LINE SHALL HAVE A MINIMUM OF 36" COVER, AND SHALL MAINTAIN A MINIMUM OF 12" CLEARANCE AT ALL UTILITY CROSSINGS.
5. EXCEPT AT CASSED CROSSINGS, LFG LINE SHALL BE PLACED IN TRENCH CONDITION ONLY.
6. CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY COMPANIES 48 HOURS BEFORE COMMENCEMENT OF WORK.
7. ALL REQUIRED INSPECTIONS SHALL BE PERFORMED FOR ACCEPTANCE OF WORK.
8. AT PI STATIONS (POINT OF TANGENT INTERSECTION) CONTRACTOR SHALL MAKE ALIGNMENT CHANGES WITH BENDING OF HOPE PIPE. BEND RADII SHALL NOT BE LESS THAN MINIMUM FOR DIAMETER AND WALL THICKNESS OF PIPE.



THE UTILITIES AS SHOWN ON THIS DRAWING WERE DEVELOPED BY THE MISSOURI ONE CALL SYSTEM, INC. (TOLL FREE) 1-800-544-7463. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES IN THIS AREA.



AMERESCO PROJECT No. 01467-00
 111 SPREEN STREET
 SUITE 410
 FRAMMINGHAM, MA 01701

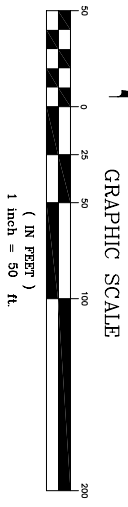
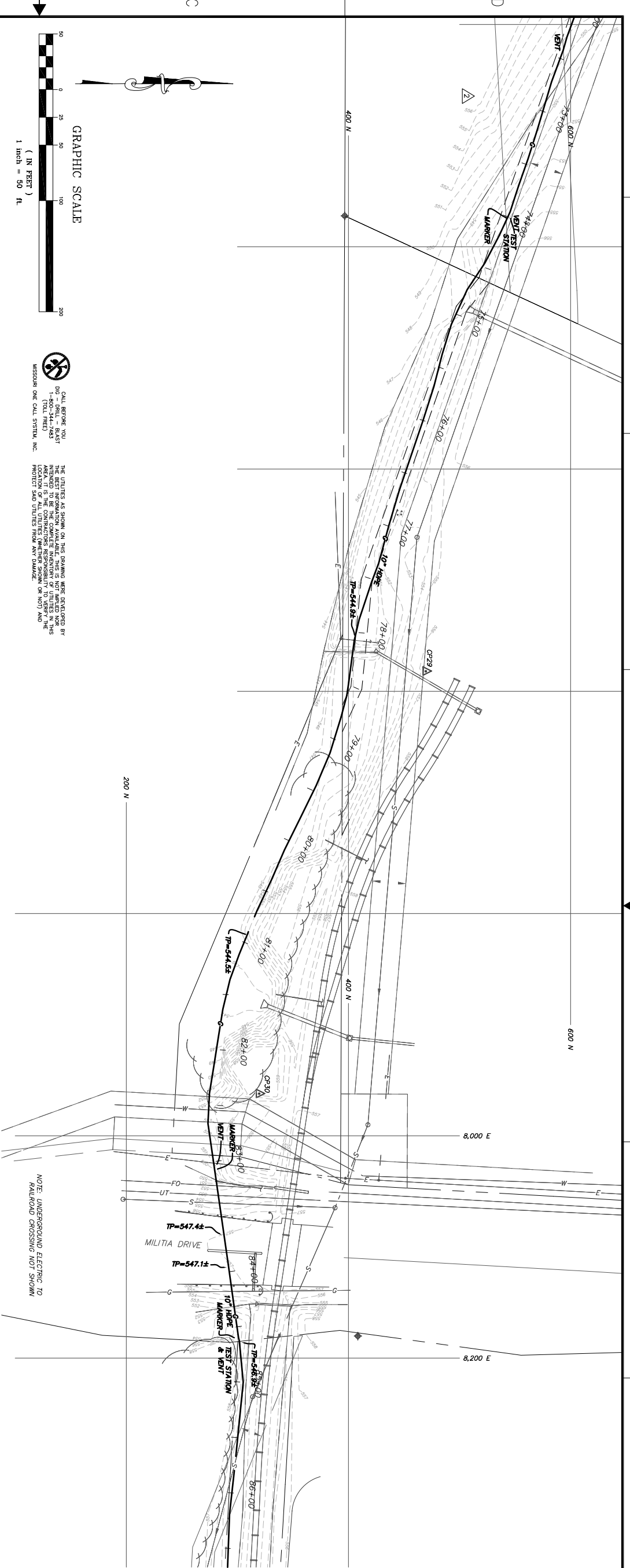
REV	DATE	STATUS	BY	CHK	P.I.
01	29 OCT 07	ISSUED FOR PERMIT & BID	JAK	-	JAK
02	11/08	REVISED TOPOGRAPHIC BASE FILE	JAK	JAK	JAK
03	11/08	REVISED TOPOGRAPHIC BASE FILE	JAK	JAK	JAK
04	11/08	ISSUED FOR CONSTRUCTION.	JAK	JAK	JAK
05	11/08	AS BUILT SURVEY ADDED	JAK	JAK	JAK

ENGINEERED BY: JOHN KONECK
 DRAWN BY: JOHN KONECK
 DATE: 29 OCT 07
 SCALE: 1"=50'
 C.O.G. TOP #273

KONECK ENGINEERING, LLC
 723 TRACY AVE.
 KANSAS CITY, MO 64108
 816-527-0794
 816-527-0795 FAX

AMERESCO JEFFERSON CITY LEGTE PROJECT
 JEFFERSON CITY, MISSOURI
 LANDFILL GAS PIPELINE
 PLAN & PROFILE
 SHEET 6

DWG. NO. C01-03-007
 REVIEW BY: SEZ



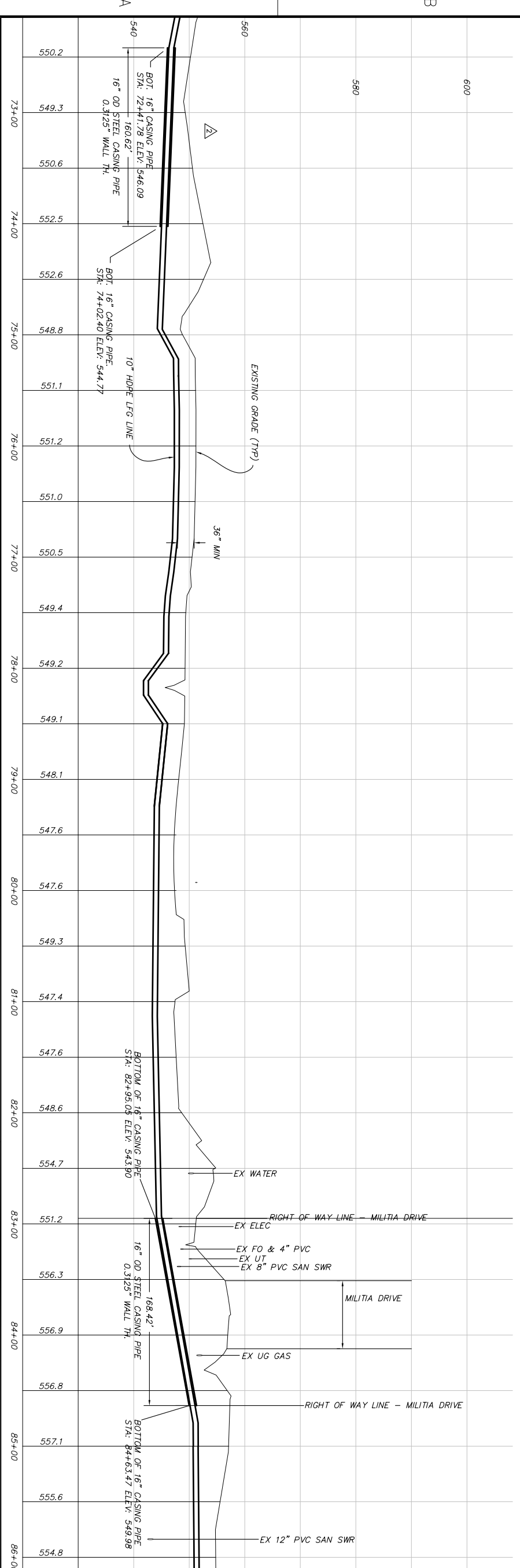
CALL BEFORE YOU DIG - DRILL - BLAST - EXCAVATE - SHIELD - TRENCH - OR ANY OTHER ACTIVITY THAT MAY AFFECT THE LOCATION OF ALL UTILITIES (WATERS SHOWN OR NOT) AND PROJECT AND UTILITIES FROM ANY DAMAGE.

MISSOURI ONE CALL SYSTEM, INC.

NOTE: UNDERGROUND ELECTRIC TO RAILROAD CROSSING NOT SHOWN

**LANDFILL GAS (LFG) LINE
GENERAL NOTES:**

1. SEE SHEET 001 FOR SURVEY AND UTILITY INFORMATION.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION, DEPTH, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. FINAL LOCATION OF LFG LINE AND APPURTENANCES SHALL BE DETERMINED BY FIELD CONDITIONS, AS APPROVED BY THE ENGINEER OR THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN MINIMUM DEPTHS AND CLEARANCES AT ALL TIMES.
4. LFG LINE SHALL HAVE A MINIMUM OF 36" COVER, AND SHALL MAINTAIN A MINIMUM OF 12" CLEARANCE AT ALL UTILITY CROSSINGS.
5. EXCEPT AT CASED CROSSINGS, LFG LINE SHALL BE PLACED IN TRENCH CONDITION ONLY.
6. CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY COMPANIES 48 HOURS BEFORE COMMENCEMENT OF WORK.
7. ALL REQUIRED INSPECTIONS SHALL BE PERFORMED FOR ACCEPTANCE OF WORK.
8. AT PI STATIONS (POINT OF TANGENT INTERSECTION), CONTRACTOR SHALL MAKE ALIGNMENT CHANGES WITH BENDING OF HDPE PIPE. BEND RADIUS SHALL NOT BE LESS THAN MINIMUM FOR DIAMETER AND WALL THICKNESS OF PIPE.



<p>MERESCO PROJECT NO. 01467-00</p> <p>111 SPREEN STREET SUITE 410 FRANINGHAM, VA 01701</p>	
<p>ENGINEERED BY: JOHN KONECK</p> <p>DRAWN BY: JOHN KONECK</p> <p>DATE: 29 OCT 07</p> <p>SCALE: 1"=50'</p> <p>COA: TOP #273</p>	
<p>ENGINEERING, LLC</p> <p>723 TRACY AVE KANSAS CITY, MO 64108</p> <p>816-527-0794 816-527-0795 FAX</p>	<p>AMERESCO PROJECT</p> <p>JEFFERSON CITY, MISSOURI</p> <p>LANDFILL GAS PIPELINE PLAN & PROFILE SHEET 7</p>
<p>REV</p> <p>DATE</p> <p>ISSUED FOR PERMIT & BID</p> <p>ISSUED FOR CONSTRUCTION</p> <p>REVISED TOPOGRAPHIC BASE FILE - ADDED CASED CROSSING @ FULL R.R. SPUR - REMOVED LOW POINT DRAIN.</p> <p>REVISED TOPOGRAPHIC BASE FILE</p>	<p>STATUS</p> <p>BY</p> <p>CHK</p> <p>P.E.</p>

REVIEW BY: SEEZ

PROCESS PIPING STRUCT MECH ELECT INSTR