



CITY OF LEEDS, ALABAMA

PLANNING AND ZONING COMMISSION AGENDA

1412 9th St - Annex

August 11, 2022 @ 5:00 PM

CALL TO ORDER:

ROLL CALL:

DETERMINATION OF QUORUM:

APPROVAL OF MINUTES FROM PREVIOUS MEETING(S):

1. Approve minutes for June 9, 2022, meeting

OLD BUSINESS:

NEW BUSINESS:

2. SA22-000012 - A request by Christal Grammer, Applicant, Annie B. Fulford, Owner, to re-survey Lots 7 & 8 Blk 11 Perdue & Lawrence Survey, TPID 2500201024004000, Jefferson County, AL, Zoned, R-3, Multi-Family District.
3. SA22-000014 - A request by JT Murphy, Applicant, United State Steel Corp, for a subdivision located at 451 Rex Lake Rd, TPID 2400243000001000, Jefferson County.

PUBLIC ADDRESS:

OTHER BUSINESS:

CHAIRPERSON'S COMMUNICATION:

ADJOURNMENT:

In compliance with the Americans with Disabilities Act, those requiring accommodation for Council meetings should notify the City Clerk's Office at least 24 hours prior to the meeting at 205-699-2585.

File Attachments for Item:

1. Approve minutes for June 9, 2022, meeting



CITY OF LEEDS, ALABAMA

PLANNING AND ZONING COMMISSION MINUTES

1412 9th St - Annex

June 09, 2022 @ 5:00 PM

CALL TO ORDER:

5:01 PM

ROLL CALL:

PRESENT

Commissioner Ken Mudd
Commissioner Mike Cauble
Commissioner Eddie Cook
Commissioner Roland Isbell
Commissioner Brad Watson
Commissioner Kelly Washburn

ABSENT

Commissioner Dave Mackey

DETERMINATION OF QUORUM:

Quorum is present

APPROVAL OF MINUTES FROM PREVIOUS MEETING(S):

1. Approval of minutes for March 10, 2022, meeting.
Approved as presented.
2. Approval of minutes for April 14, 2022, meeting.
Approved as presented.

OLD BUSINESS:

None.

PUBLIC ADDRESS:

None.

OTHER BUSINESS:

None.

NEW BUSINESS:

3. Administrative - Amendment to R-5, Garden Home District / Delete R-6 Patio Home District
Discussion regarding the proposed amendment between the board members.

4. PZ2022-06-01 - Pre-submittal Meeting

Applicant was not present.

Ray Pelham of 7025 Briarwood Ln spoke against any zoning changes.

Motion made to close public hearing by Commissioner Mudd, Seconded by Commissioner Watson.

Voting Yea: Commissioner Mudd, Commissioner Cauble, Commissioner Cook, Commissioner Isbell, Commissioner Watson, Commissioner Washburn

Public hearing closed.

CHAIRPERSON'S COMMUNICATION:

None.

ADJOURNMENT:

5:27 PM

Mr. Eddie Cook, Chairman

Mrs. Kelly Washburn, Secretary

File Attachments for Item:

2. SA22-000012 - A request by Christal Grammer, Applicant, Annie B. Fulford, Owner, to re-survey Lots 7 & 8 Blk 11 Perdue & Lawrence Survey, TPID 2500201024004000, Jefferson County, AL, Zoned, R-3, Multi-Family District.

NOTICE OF PUBLIC HEARING

City of Leeds, Alabama
 Planning and Zoning Commission

Application for Subdivision PERDUE & LAWRENCE RESURVEY

APPLICATION

An application for subdivision plat approval has been filed with the City of Leeds Planning and Zoning Commission for "PERDUE & LAWRENCE RESURVEY". This proposed subdivision consists of 1.

PLANNING AND ZONING COMMISSION

The Planning and Zoning Commission is vested with the responsibility and authority of determining conformity with the City of Leeds Subdivision Regulations

CASE #:	SA22-000012
APPLICANT NAME:	Christal Grammer
PROPERTY OWNER:	FULFORD ANNIE B &
TAX PARCEL ID#S:	2500201024004000
CASE ADDRESS:	1250 VIVIAN ST; LEEDS, AL 35094

NOTICE IS HEREBY GIVEN that the Planning and Zoning Commission will hold a public hearing on the proposed preliminary plat. The hearing is scheduled on.

Date: 08/11/2022
 Time: 5:00 p.m.
 Place: Leeds Annex Meeting Room
 1412 9th St
 Leeds, AL 35094

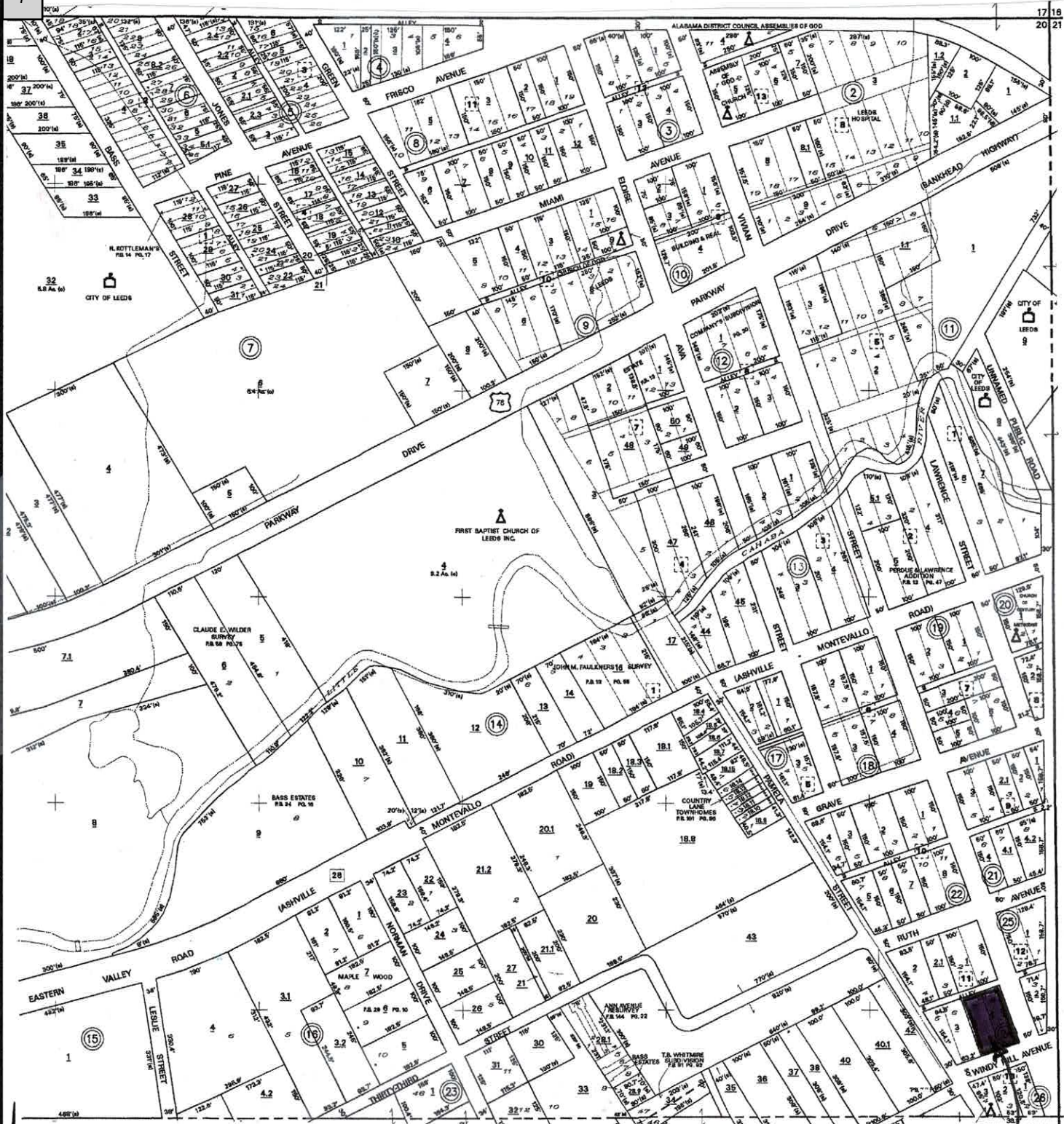
Public Information: Any interested persons or their representative may appear at the meeting and comment on the application. Written comments may also be mailed to the Commission.

For more information about the application and related issues or to schedule an appointment:

Contact Person: Brad Watson **Phone:** 205-699-0907
E-mail: development@leedsalabama.gov

Mailing Address:

City of Leeds
 Planning and Zoning commission
 1404 9th Street
 Leeds, AL 35094



PERDUE AND LAWRENCE RESURVEY
 BEING A RESURVEY OF LOT 7 AND 8 OF BLOCK 11
 OF THE PERDUE AND LAWRENCE ADDITION TO LEEDS
 AS RECORDED IN MAP BOOK 12 PAGE 47 JEFF CO AL
 SITUATED IN NE 1/4 OF SECTION 20 TOWNSHIP 17 SOUTH, RANGE 1 EAST
 CITY OF LEEDS, JEFFERSON COUNTY, ALABAMA

SITE

VICINITY MAP
 PREPARED BY
 JOSEPH A. MILLER, III
 PE/LS 17054

MTR ENGINEERS, INC.
 2500 Southlake Park, Suite 100
 Hoover, Al. 35244
 TELEPHONE (205) 320-0114

Date: 04.11.22

File Attachments for Item:

3. SA22-000014 - A request by JT Murphy, Applicant, United State Steel Corp, for a subdivision located at 451 Rex Lake Rd, TPID 2400243000001000, Jefferson County.

NOTICE OF PUBLIC HEARING

City of Leeds, Alabama
 Planning and Zoning Commission

Application for Subdivision The Parcel 15 Project for U.S. Steel Corporation

APPLICATION

An application for subdivision plat approval has been filed with the City of Leeds Planning and Zoning Commission for "The Parcel 15 Project for U.S. Steel Corporation". This proposed subdivision consists of 0.

PLANNING AND ZONING COMMISSION

The Planning and Zoning Commission is vested with the responsibility and authority of determining conformity with the City of Leeds Subdivision Regulations

CASE #:	SA22-000014
APPLICANT NAME:	JT Murphy
PROPERTY OWNER:	UNITED STATES STEEL CORP
TAX PARCEL ID#S:	2400243000001000
CASE ADDRESS:	451 REX LAKE RD; LEEDS, AL 35094

NOTICE IS HEREBY GIVEN that the Planning and Zoning Commission will hold a public hearing on the proposed preliminary plat. The hearing is scheduled on.

Date: 08/11/2022
 Time: 5:00 p.m.
 Place: Leeds Annex Meeting Room
 1412 9th St
 Leeds, AL 35094

Public Information: Any interested persons or their representatives may appear at the meeting and comment on the application. Written comments may also be mailed to the Commission.

For more information about the application and related issues or to schedule an appointment:

Contact Person: Brad Watson **Phone:** 205-699-0907
E-mail: development@leedsalabama.gov

Mailing Address:

City of Leeds
 Planning and Zoning commission
 1404 9th Street
 Leeds, AL 35094

CONSTRUCTION DOCUMENTS

FOR

THE PARCEL 15 PROJECT (HIGHWALL AND PUBLIC ACCESS ROAD)

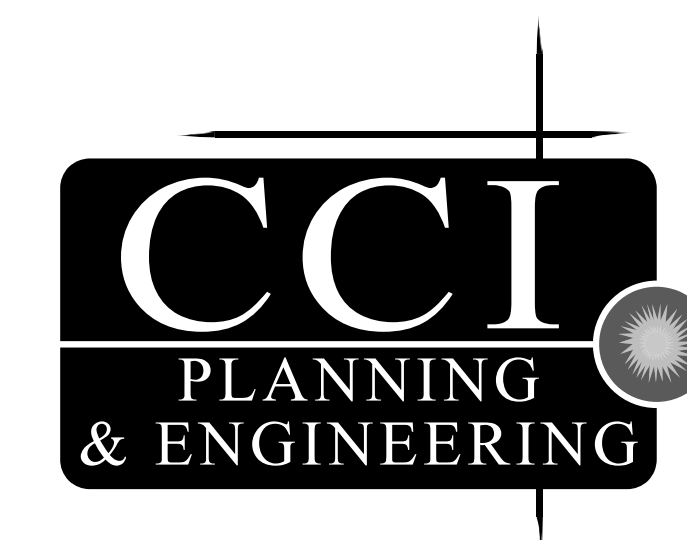
IN
LEEDS, ALABAMA

OWNER/DEVELOPER:

U.S. STEEL CORPORATION
610 Preserve Parkway, Suite 200
Hoover, Al 35226



PREPARED BY:



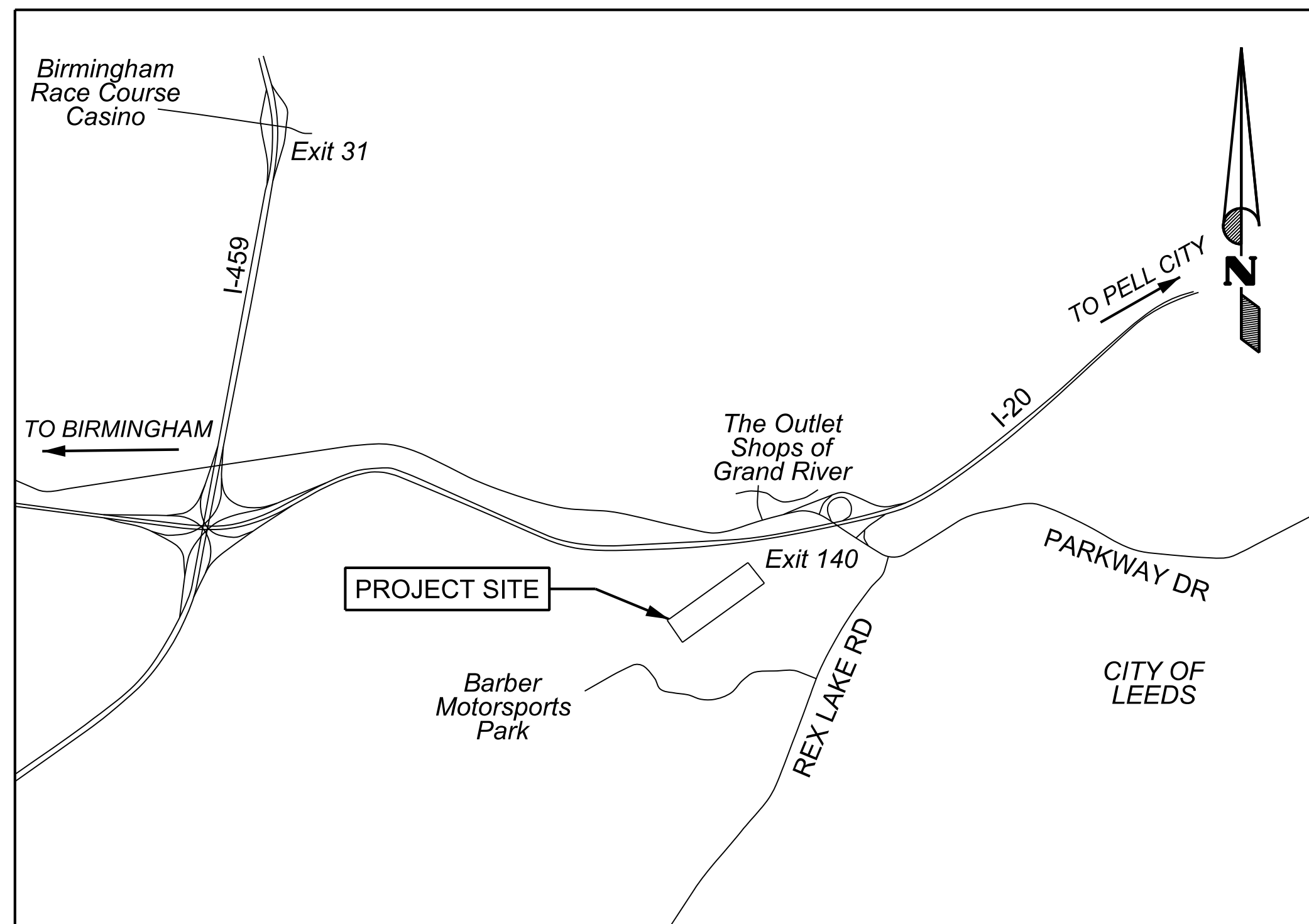
3528 Vann Road
Suite 105
Birmingham, AL 35235
Phone: (205) 655-1991
www.ccipe.com

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
C-0.00	COVER SHEET
S-1	PRELIMINARY PLAT (SHEET 1 OF 2)
S-2	PRELIMINARY PLAT (SHEET 2 OF 2)
C-1.00	PROJECT NOTES
C-2.00	OVERALL LAYOUT PLAN
C-3.00	HIGHWALL GRADING PLAN
C-3.01	HIGHWALL INITIAL EROSION AND SEDIMENT CONTROL PLAN
C-3.02	HIGHWALL INTERMEDIATE/FINAL EROSION AND SEDIMENT CONTROL PLAN
C-4.00	GEOMETRIC LAYOUT (STA 0+00 TO 26+00)
C-4.01	GEOMETRIC LAYOUT (TO 26+00 END)
C-5.00	TYPICAL SECTIONS
C-6.00	PLAN AND PROFILE (STA 0+00 TO STA 11+50)
C-6.01	PLAN AND PROFILE (STA 11+50 TO STA 23+50)
C-6.02	PLAN AND PROFILE (STA 23+50 TO END)
C-7.00	PAVING, SIGNAGE, AND STRIPING PLAN (STA 0+00 TO 23+00)
C-7.01	PAVING, SIGNAGE, AND STRIPING PLAN (TO 23+00 END)
C-8.00	UTILITY PLAN
C-8.01	SANITARY SEWER PLAN AND PROFILE (S-1)
C-8.02	SANITARY SEWER SECTIONS AND DETAILS
C-9.00	STORM PROFILES
C-10.00	EROSION AND SEDIMENT CONTROL PLAN (STA 0+00 TO 13+50) - INITIAL
C-10.01	EROSION AND SEDIMENT CONTROL PLAN (STA 13+50 TO END) - INITIAL
C-10.02	EROSION AND SEDIMENT CONTROL PLAN (STA 0+00 TO 13+50) - FINAL
C-10.03	EROSION AND SEDIMENT CONTROL PLAN (STA 13+50 TO END) - FINAL
C-10.04	EROSION CONTROL SECTIONS AND DETAILS
C-10.05	EROSION CONTROL SECTIONS AND DETAILS
C-11.00 - C-11.18	CROSS SECTIONS
C-12.00	SECTIONS AND DETAILS
C-12.01	SECTIONS AND DETAILS
ATTACHMENT	PARCEL 15 FORCE MAIN (BY ENGINEERS OF THE SOUTH)

LIST OF CONTACTS

<p>OWNER U.S. STEEL CORPORATION Phone: (205) 588-2814 Contact: Jammie Cowden 610 Preserve Parkway, Suite 200 Hoover, Al 35226</p>	<p>SURVEYOR ARRINGTON ENGINEERING Phone: (205) 985-9315 Contact: Dave Arrington 2032 Valleydale Road Birmingham, AL 35244</p>
<p>OWNER'S REPRESENTATIVE CORNERSTONE MANAGEMENT GROUP Phone: (205) 261-8171 Contact: Jeff Boyd 3963 Butler Springs Way Hoover, AL 35226</p>	<p>ENVIRONMENTAL ENGINEERING SPECTRUM ENVIRONMENTAL SERVICES Phone: (205) 664-2000 Contact: Steve Castleman 85 Spectrum Cove Alabaster, Alabama 35007</p>
<p>CIVIL ENGINEERING CIVIL CONSULTANTS, INC. Phone: (205) 655-1991 Contact: J.T. Murphy, P.E. Email: jmurphy@ccipe.com 3528 Vann Road, Suite 105 Birmingham, Alabama 35235</p>	<p>WATER LEEDS WATER WORKS BOARD Phone: (205) 966-0940 Contact: Bill Morris 8651 Thorton Avenue Leeds, Alabama 35094</p>
<p>SEWER JEFFERSON COUNTY ENVIRONMENTAL SERVICES DEPARTMENT Phone: (205) 325-5496 Contact: Ben Pate or Emily Kemp 716 Richard Arrington Jr. Blvd N, Suite A 300 Birmingham, Alabama 35203</p>	



VICINITY MAP
N.T.S.

PRINTED: 1/20/2022 10:58:51 AM P:\24\1\USP\24100000\241001.DWG C:\00_Cover_Sheet.dwg

THE PARCEL 15 PROJECT PUBLIC ACCESS ROAD SUBDIVISION

PARCEL NUMBER 24-00-24-3-000001.000
SITUATED IN SECTION 24, TOWNSHIP 17 SOUTH, RANGE 1 WEST
JEFFERSON COUNTY, AL

OWNER
U.S. STEEL CORPORATION
Phone: (205) 588-2814
Contact: Jammie Cowden
610 Preserve Parkway, Suite 200
Hoover, Alabama 35226

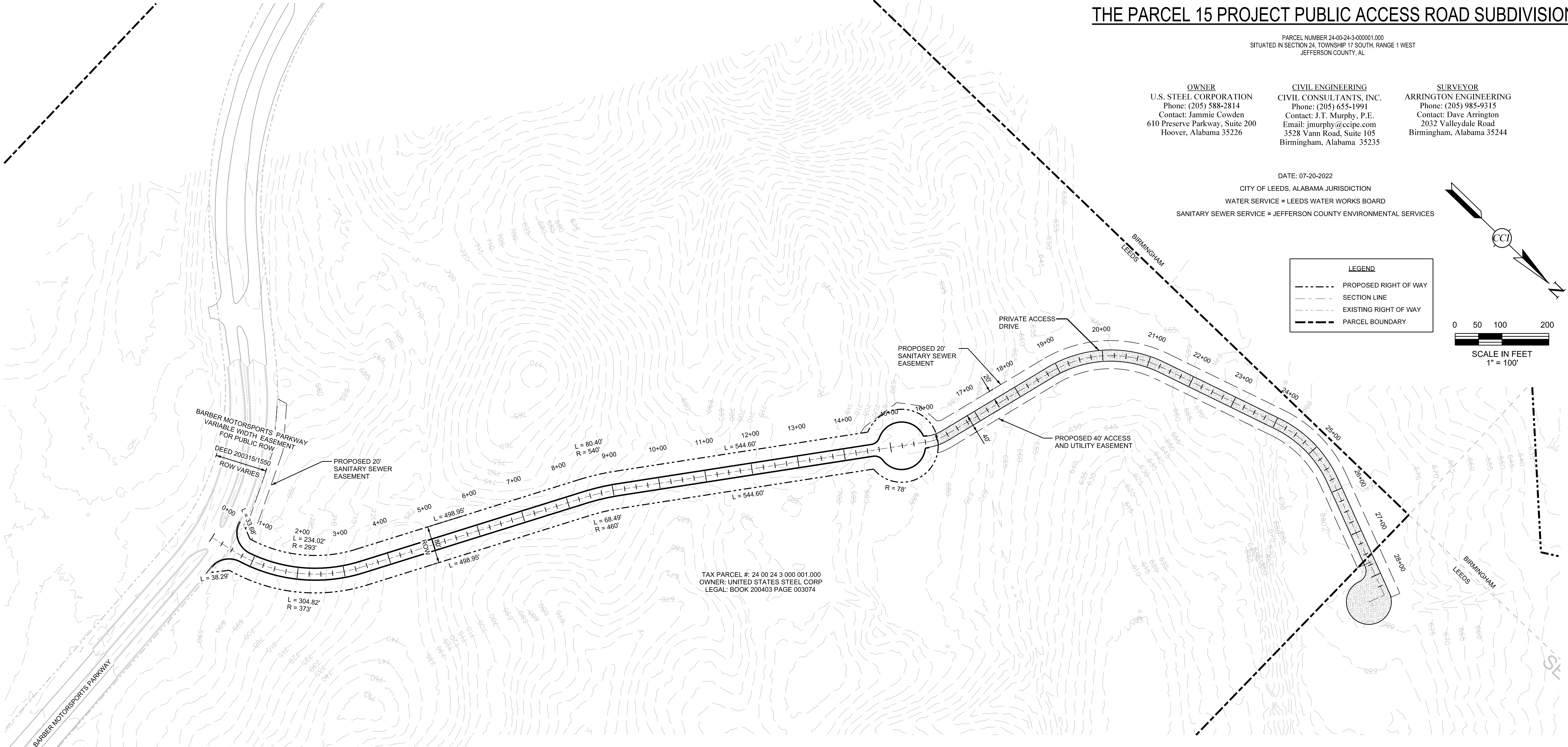
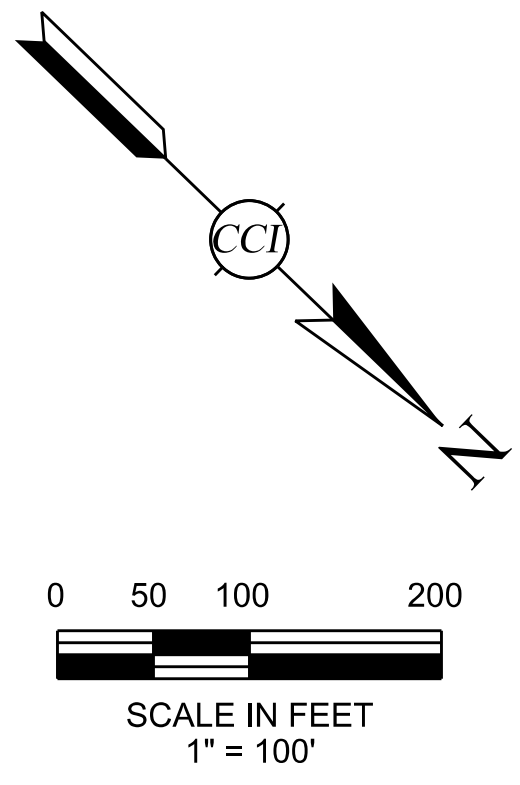
CIVIL ENGINEERING
CIVIL CONSULTANTS, INC.
Phone: (205) 655-1991
Contact: J.T. Murphy, P.E.
Email: jtmurphy@ccipe.com
3528 Vann Road, Suite 105
Birmingham, Alabama 35235

SURVEYOR
ARRINGTON ENGINEERING
Phone: (205) 985-9315
Contact: Dave Arrington
2032 Valleydale Road
Birmingham, Alabama 35244

DATE: 07-20-2022

CITY OF LEEDS, ALABAMA JURISDICTION
WATER SERVICE = LEEDS WATER WORKS BOARD
SANITARY SEWER SERVICE = JEFFERSON COUNTY ENVIRONMENTAL SERVICES

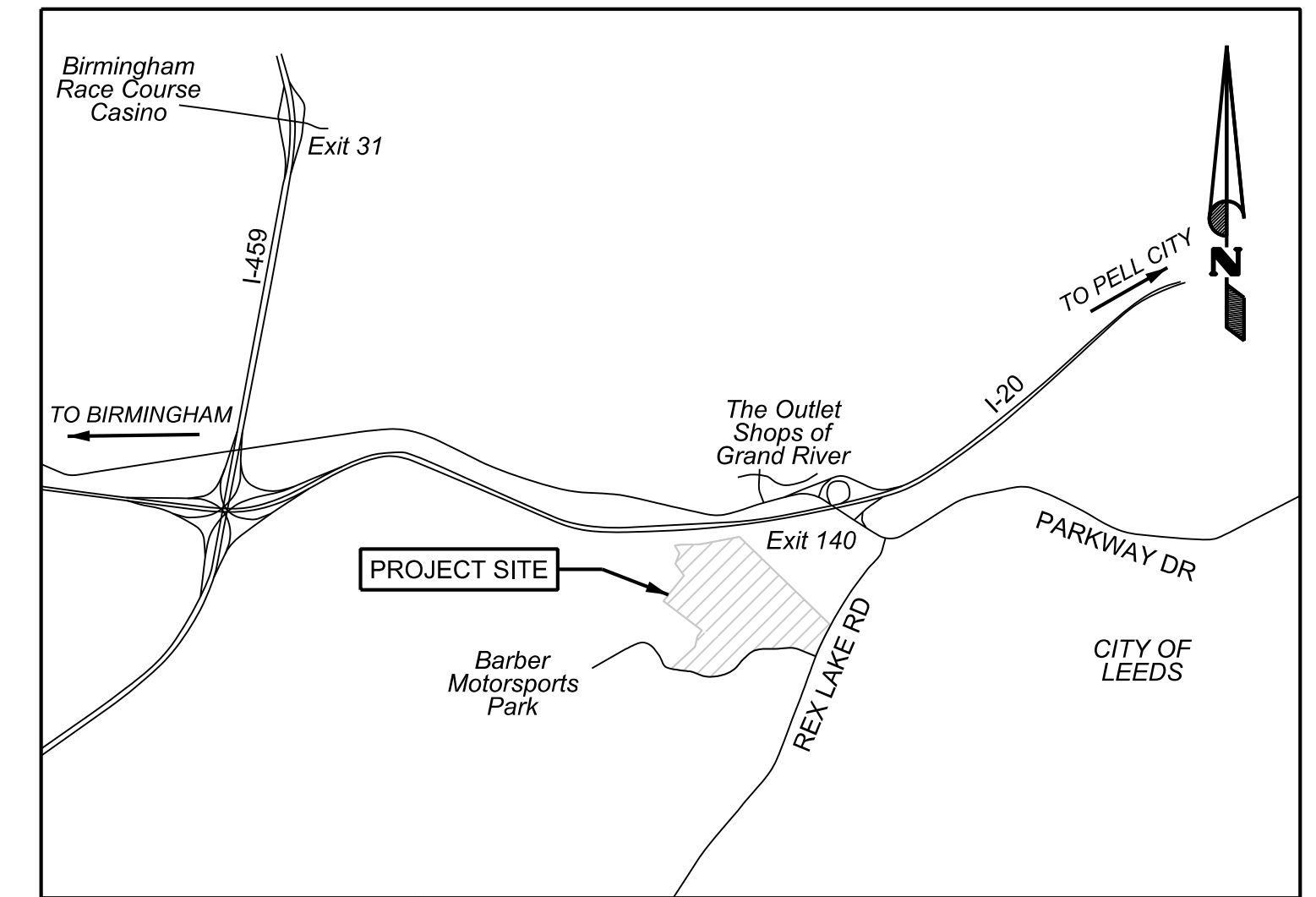
LEGEND	
	PROPOSED RIGHT OF WAY
	SECTION LINE
	EXISTING RIGHT OF WAY
	PARCEL BOUNDARY



TAX PARCEL #: 24 00 24 3 000 001.000
OWNER: UNITED STATES STEEL CORP
LEGAL: BOOK 200403 PAGE 003074

NOTES:

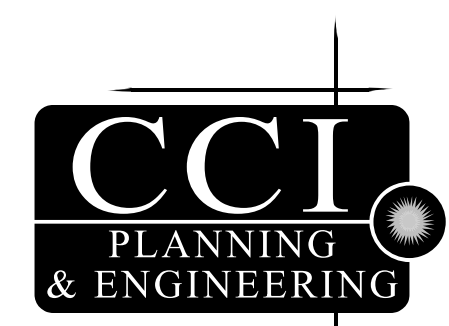
1. BOUNDARY AND TOPOGRAPHIC SURVEY AS PER INFORMATION SHOWN ON A SURVEY PREPARED BY ARRINGTON ENGINEERING DATED APRIL 21, 2022.
2. ALL UTILITIES SHALL BE BACK FILLED WITH STONE.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF LEEDS SPECIFICATIONS.
4. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION FOR THE PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS.
5. STORM WATER RUNOFF PRODUCED FROM THIS SITE DEVELOPMENT WILL NOT ADVERSELY EFFECT OTHER PROPERTIES. FURTHERMORE, THE STORM DRAINAGE SYSTEM IS DESIGNED IN ACCORDANCE WITH STANDARD ACCEPTED ENGINEERING PRACTICES AND WILL PERFORM AS DESIGNED IF CONSTRUCTED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND APPLICABLE REGULATIONS.
6. ALL CONSTRUCTION TO MEET OSHA SAFETY GUIDELINES. SAID SAFETY PROCEDURES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. ALL COMPACTION IN PAVED AREAS SHALL BE CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER TO MEET PROJECT SPECIFICATIONS.
8. NO FENCES SHALL BE CONSTRUCTED WITHIN ANY EASEMENTS OR DRAINAGE WAYS.



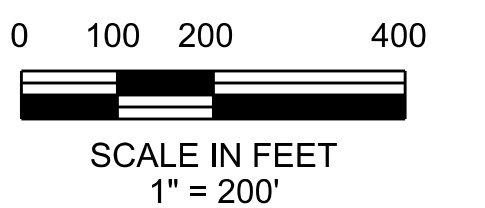
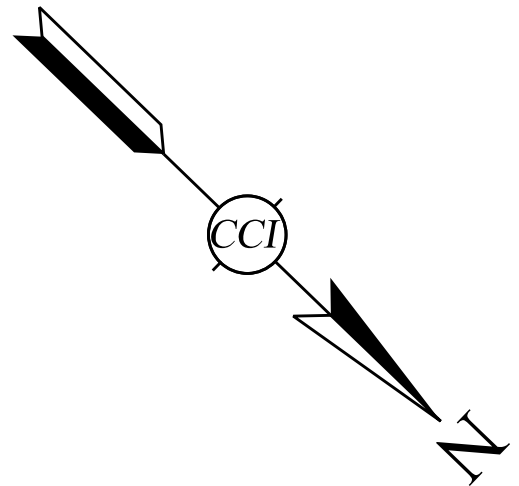
THE ATTACHED SUBDIVISION PLAT HAS BEEN REVIEWED BY THE CITY ENGINEER FOR THE CITY OF LEEDS, ALABAMA.

DATE _____ CITY ENGINEER _____
CITY OF LEEDS, ALABAMA

DRAWING NO. **S-1** **PRELIMINARY PLAT**
SHEET 1 OF 2



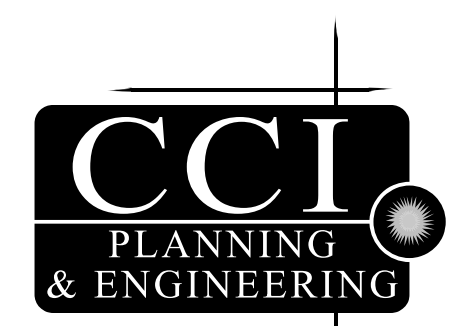
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LEGEND	
	PARCEL BOUNDARY
	ADJACENT PARCEL BOUNDARY
	PROPOSED RIGHT OF WAY
	EXISTING RIGHT OF WAY



DRAWING NO. **S-2** **PRELIMINARY PLAT**
SHEET 2 OF 2



3528 Vann Road
Suite 105
Birmingham, AL 35235
Phone: (205) 655-1991
www.ccipe.com

GENERAL NOTES

1. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
2. ALL CONSTRUCTION SHOWN SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS FOR THIS PROJECT AND SHALL CONFORM TO ALL CODES, ORDINANCES, RESTRICTIONS, AND STANDARDS OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THE SITE. CONTRACTOR WILL ONLY PERFORM CONSTRUCTION ACTIVITIES BASED ON PLANS AND SPECIFICATIONS WHICH HAVE BEEN PROPERLY ISSUED FOR CONSTRUCTION PURPOSES.
3. ALL UTILITIES WITHIN THE ROADWAY SHALL BE BACKFILLED WITH STONE.
4. CONTRACTOR SHALL COORDINATE THE INSTALLATION, ADJUSTMENT OR RELOCATION OF ALL UTILITIES WITH THE APPROPRIATE UTILITY COMPANIES AND HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, ETC. SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
5. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND BENCHMARKS. ALL PROPERTY PINS OR BENCHMARKS ELIMINATED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR.
6. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES. EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
7. JOB SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE LIMITS OF DISTURBANCE SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE. ANY DAMAGE CAUSED BY CONSTRUCTION SHALL BE REPAIRED TO ITS ORIGINAL CONDITION.
9. IN THE EVENT THAT A CONFLICT ARISES BETWEEN THE SITE CONSTRUCTION DRAWINGS AND STRUCTURES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH CONSTRUCTION OF ANY AREA WHERE A CONFLICT HAS BEEN DISCOVERED UNTIL SUCH TIME AS THE CONFLICT HAS BEEN CLEARLY RESOLVED.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PROTECTIVE DEVICES, TRAFFIC CONTROL, AND FOR THE IMPLEMENTATION OF ALL SAFETY MEASURES INCLUDING, BUT NOT LIMITED TO: THE PROTECTION OF LIFE, PROPERTY, AND SITE IMPROVEMENTS; THE PROTECTION OF EXISTING UTILITY LINES AND STRUCTURES; AND THE PROVISION AND COORDINATION OF ALL TEMPORARY TRAFFIC CONTROL EFFORTS AND MEASURES.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SMOOTH TRANSITION BETWEEN ALL NEW CONSTRUCTION AND ALL EXISTING CONDITIONS. ALL TRANSITION GRADES, CONSTRUCTION MATERIALS, AND FINISHES SPECIFICALLY AT DRIVEWAY ENTRANCE LOCATIONS, ARE SUBJECT TO APPROVAL BY THE OWNER AND ENGINEER.
12. WATER AND SEWER TO BE ON OPPOSITE SIDES OF STREET. ALL OTHER UTILITIES TO BE LOCATED AWAY FROM THESE TRENCHES.
13. BOUNDARY SURVEY WAS PREPARED BY ARRINGTON ENGINEERING AND SURVEYING, LLC.
14. ALL WORK SHOWN SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SITE WORK SPECIFICATIONS FOR THIS PROJECT AND SHALL CONFORM TO ALL CODES, ORDINANCES, RESTRICTIONS, AND STANDARDS OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THE SITE. CONTRACTOR WILL ONLY PERFORM CONSTRUCTION ACTIVITIES BASED ON PLANS AND SPECIFICATIONS WHICH HAVE BEEN PROPERLY ISSUED FOR CONSTRUCTION PURPOSES.
15. ALL CONSTRUCTION TO MEET OSHA SAFETY GUIDELINES. SAID SAFETY PROCEDURES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
16. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES. EROSION CONTROL DEVICES SHALL BE INSPECTED DAILY AND BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
17. DO NOT SCALE CRITICAL DIMENSIONS FROM THIS DRAWING, CONTACT ENGINEER FOR SPECIFIC CLARIFICATIONS NEEDED.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER TRAFFIC CONTROL, FOR PUBLIC SAFETY IN ACCORDANCE WITH ALABAMA DOT, CITY OF LEEDS AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SITE NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SITE WORK SPECIFICATIONS AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
2. TOPOGRAPHIC AND BOUNDARY SURVEY, PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WERE PROVIDED BY SURVEY BY OTHERS.
3. CIVIL CONSULTANTS, INC. WILL NOT BE HELD RESPONSIBLE FOR ACCURACY OF THE SURVEY.
4. ALL DIMENSIONS AND RADII ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
5. ALL STRIPED OR CURBED RADII SHALL BE FIVE (5) FEET TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ANY EXISTING IMPROVEMENTS, ONSITE OR OFFSITE, SUCH AS PAVEMENT, UTILITIES, STORM DRAINAGE, ETC. THE REPAIR MUST BE APPROVED BY THE ENGINEER AND BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
7. ANY UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE CONSTRUCTION PROCESS SHALL BE IDENTIFIED TO THE OWNER/ENGINEER IMMEDIATELY.
8. ALL CONCRETE SHALL BE 3,500 PSI @ 28 DAY COMPRESSIVE STRENGTH UNLESS STATED OTHERWISE.
9. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A LIST OF SUB-CONTRACTORS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
10. ALL DIMENSIONS ON THIS DRAWING ARE WITHIN +/- 0.01", UNLESS OTHERWISE NOTED.
11. IF FOR ANY REASON A WRITTEN DIMENSION DOES NOT COINCIDE WITH A SCALED DIMENSION CONTACT THE ENGINEER.

WATER NOTES

1. ALL WATER MAIN AND SERVICE LATERAL INSTALLATION SHALL BE PER LEEDS WATER WORKS BOARD STANDARDS AND SPECIFICATIONS.
2. ALL WATER MAINS AND LATERALS SHALL BE CONSTRUCTED WITH A MINIMUM OF 36 INCHES OF COVER.
3. COORDINATE WITH CITY LEEDS WATER WORKS BOARD FIELD REPRESENTATIVE TO INSURE ANY ADJUSTMENTS REQUIRED TO THE MAIN INSTALLATION PLANS ARE MADE
4. WATER SERVICE SHOULD BE THE FIRST UTILITY INSTALLED ONCE ROADWAY SUBGRADE IS ESTABLISHED AND AFTER STORM DRAINAGE SYSTEM AND SANITARY SEWER SYSTEM IS COMPLETE. CONTRACTOR SHALL NOTIFY WATER AUTHORITY A MINIMUM OF 2 TO 3 WEEKS PRIOR TO BEING READY FOR INSTALLATION OF THE WATER MAINS.
5. ALL WATER MAINS, FITTINGS, VALVES, AND SERVICE MATERIALS SHALL BE INSTALLED PER LEEDS WATER WORKS BOARD STANDARDS AND SPECIFICATIONS.
6. SUBMITTALS OF ALL MATERIALS SHALL BE SENT TO THE LEEDS WATER WORKS BOARD GENERAL MANAGER FOR APPROVAL PRIOR TO INSTALLATION.

STORM DRAINAGE NOTES

1. STORM PIPE SHALL BE OF THE TYPE NOTED BELOW.
 - A. STORM PIPE LARGER THAN 15" AND LOCATED UNDER PAVEMENT SHALL BE REINFORCED CONCRETE PIPE (RCP), CONFORMING TO ASTM C-76, B OR C WALL, CLASS III, (UNLESS NOTED OTHERWISE ON PLAN). JOINTS SHALL BE TONGUE AND GROOVE OR BELL AND SPIGOT, WHICH MUST BE SEALED WITH RUBBER GASKETS CONFORMING TO ASTM 443 OR FLEXIBLE GASKETS CONFORMING TO AASHTO M 198.
 - B. STORM PIPE LOCATED IN DITCH AREAS SHALL BE CORRUGATED PLASTIC PIPE (CPP) UNLESS OTHERWISE NOTED. CPP SHALL BE HP N-12. HP N-12 PIPE SHALL BE WATER TIGHT POLYPROPYLENE PIPE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. MEETING THE REQUIREMENTS OF ASTM F2736, SECTION 4, ASTM F2881, SECTION 5, AND AASHTO MP-21-11, SECTION 6.1 FOR THE RESPECTIVE DIAMETER PIPE BEING USED, OR APPROVED ALTERNATE. BED AND BACKFILL PIPE WITH ALDOT #57 OR #67 PER MANUFACTURER'S REQUIREMENTS.
3. ALL PIPE ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED TO ASSURE THE CONNECTION AT THE STRUCTURE IS WATER TIGHT.
4. ALL STORM SEWER MANHOLES SHALL BE PRECAST AND MEET THE SPECIFICATIONS OF ASTM C76.
5. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING LIDS.
6. ALL STORM SEWER MANHOLE LIDS SHALL BE LABELED "STORM SEWER".
7. ALL STORM DRAINAGE PIPE AND STRUCTURES SHALL BE CLEANED OF SILT, TRASH AND DEBRIS PRIOR TO DEMOBILIZATION FROM THE SITE.
8. ALL SINGLE OR DOUBLE WING CURB INLETS SHALL BE PER ALDOT STANDARD HIGHWAY DWGS., SPECIAL DWG. NO. I-621-S. CONTRACTOR TO ADJUST INLET STRUCTURE BOTTOMS AS REQUIRED FOR PIPE SIZES AND CONFIGURATION. CONTRACTOR MAY SUBSTITUTE ALTERNATE CURB INLET, IF APPROVED BY ENGINEER AND GOVERNING MUNICIPAL AUTHORITY.
9. CONTRACTOR IS TO BEGIN STORM DRAINAGE CONSTRUCTION FROM THE MOST DOWN STREAM POINT OF THE SYSTEM.
10. ALL HEADWALLS SHALL BE PER ALDOT STANDARD HIGHWAY DRAWINGS, OR PRECAST BY FOLEY PRODUCTS OR APPROVED EQUALIVENT.
11. ALL HEADWALLS NOTED "IMPACT DISSIPATER TYPE" SHALL BE PER ALDOT STANDARD SPECIFICATIONS OR PRECAST BY FOLEY PRODUCTS OR APPROVED EQUIVLIVANT.
12. STORM SEWER CROSSINGS UNDER STREETS TO BE SOLID STONE BACKFILL WITH WEEP HOLES TO INLETS.
13. ALL STORM PIPE INSTALLED AT 20% OR GREATER GRADES SHALL HAVE CONCRETE COLLARS INSTALLED EVERY 25 FEET ON CENTERS MINIMUM.
14. ALL STORM PIPE INSTALLED WITH LESS THAN 3 FT. OF COVER, SHALL BE BACK FILLED WITH STONE.
15. ALL STORM MANHOLES IN GRASSED AREAS SHALL BE FLUSH TO FINISH GRADE.
16. ALL DRAINAGE STRUCTURES MAY BE PRE-CAST, OR EQUAL, IF APPROVED BY ENGINEER.
17. PIPE LENGTH AND SLOPES ARE APPROXIMATE. PIPE LENGTH ARE HORIZONTAL PROJECTIONS AND ARE MEASURED FROM THE MIDDLE OF THE STRUCTURE. DISTANCES ARE ROUNDED TO THE NEAREST WHOLE FOOT.

GRADING NOTES:

1. REFERENCE GENERAL NOTES.
 2. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. ANY CLEARING REQUIRED FOR THIS CONSTRUCTION SHALL BE INCIDENTAL TO THE OVERALL SITE WORK.
 3. ANY GRADED OR DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL IF REQUIRED BY FIELD CONDITIONS. GEOTECHNICAL/ENGINEER OR REGULATORY AGENCY. ALL GRADED AND DISTURBED AREAS SHALL BE GRASSED BY SEED, MULCH, FERTILIZER, AND WATER APPLIED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
 4. GRADES SHOWN ARE FINISHED PAVEMENT & TOP OF GRASS GRADE ELEVATIONS. FOR SUBGRADE ELEVATIONS, REFERENCE SECTIONS & DETAILS.
 5. THE CONTRACTOR SHALL CALL APPROPRIATE UTILITY CONTACTS 48 HOURS PRIOR TO EXCAVATION IN AREAS WHERE UTILITIES MAY EXIST.
 6. ANY EXCESS MATERIAL AT THE END OF THE PROPOSED GRADING OPERATIONS, SHALL BE PLACED ON SITE IN AN ACCEPTABLE LOCATION TO OWNER/ENGINEER.
 7. NO SLOPES SHALL BE STEEPER THAN 3-HORIZONTAL TO 1-VERTICAL, UNLESS OTHERWISE NOTED ON THE PLAN OR APPROVED BY ENGINEER.
 8. THE LOCATION AND ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, SHOULD NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES AND UTILITIES PRIOR TO CONSTRUCTION. ANY DEVIATIONS FROM PLAN INFORMATION SHOULD BE DISCUSSED WITH ENGINEER AND OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CALL APPROPRIATE UTILITY CONTACTS 48 HOURS PRIOR TO EXCAVATION IN AREAS WHERE UTILITIES MAY EXIST.
 9. STRIP TOPSOIL FROM THE SITE WHERE EXCAVATION OR GRADING IS INDICATED AND STOCKPILE SEPARATELY FROM OTHER EXCAVATED MATERIAL. WHERE SUFFICIENT SUITABLE EXISTING ON-SITE NATURAL FRIABLE, WELL DRAINED TOPSOIL FREE OF SUBSOIL, STUMPS, ROCKS LARGER THAN 1" DIAMETER, WEEDS, TOXIC SUBSTANCES AND OTHER MATERIAL DETRIMENTAL TO PLANT GROWTH IS NOT AVAILABLE ON SITE CONTRACTOR SHALL PROVIDE BORROW MATERIAL SUITABLE FOR USE AS TOPSOIL. THE AREAS SHALL BE PLANTED AND MULCHED, FERTILIZED AND WATERED AS REQUIRED BY THE LANDSCAPE DESIGN. ROCKS GREATER THAN 1" DIAMETER MUST BE REMOVED. ALL SLOPES AND DISTURBED AREAS NOT COVERED BY BUILDINGS OR PAVEMENT SHALL BE GRADED SMOOTH AND RECEIVE FOUR (4)" INCHES OF TOPSOIL. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 10. ALL AREAS THAT WILL REQUIRE FILL OR THAT WILL SUPPORT PAVEMENTS SHOULD BE CAREFULLY PROOFROLLED WITH A FULLY LOADED (40,000 LBS. MIN) TANDEM AXLE DUMP TRUCK UNDER THE OBSERVATION OF THE OWNER'S GEOTECHNICAL ENGINEER AT THE FOLLOWING TIMES:
 1. AFTER AN AREA HAS BEEN STRIPPED, AND UNDERCUT IF REQUIRED, PRIOR TO THE PLACEMENT OF ANY FILL
 2. AFTER GRADING AN AREA TO THE FINISHED SUBGRADE ELEVATION IN A PAVEMENT AREA.
 3. AFTER AREAS HAVE BEEN EXPOSED TO ANY PRECIPITATION, AND/OR HAVE BEEN EXPOSED FOR MORE THAN 48 HOURS.
- IF ANY SOFT, YIELDING, RUTTING, PUMPING OR OTHERWISE UNSUITABLE SOILS ARE IDENTIFIED DURING THE PROOFROLLING PROCESS, THEY MUST BE UNDERCUT OR STABILIZED PRIOR TO FILL PLACEMENT. PAVEMENT CONSTRUCTION, OR FLOOR SLAB CONSTRUCTION AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ALL UNSUITABLE MATERIAL IDENTIFIED SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH THE STRUCTURAL FILL SECTION BELOW. ALL UNDERCUT AREAS SHALL BE MEASURED BY THE GEOTECHNICAL ENGINEER AND THE CONTRACTOR AND AN UNDERCUT QUANTITY AGREED UPON IN THE FIELD PRIOR TO BACKFILLING.
11. FOLLOWING PROOFROLLING, AREAS WHICH ARE AT GRADE OR ARE TO RECEIVE ADDITIONAL FILL SHALL BE SCARIFIED TO 8" DEPTH MOISTURE CONDITIONED AND RECOMPACTED AS SPECIFIED.
 12. GRADING CONTRACTOR SHALL GRADE OR "SLICK DOWN" JOB AFTER WATER AND SEWER ARE INSTALLED. THIS FINE GRADING SHALL BE INCIDENTAL TO THE JOB AND SHALL NOT BE CONSIDERED AN EXTRA PAY ITEM.
 13. IN PAVED AREAS, IF HIGHLYPLASTIC CLAYS ARE ENCOUNTERED, THEY SHOULD BE UNDERCUT TO ONE FOOT BELOW THE PLANNED SUBGRADE ELEVATION. THE UNDERCUT MATERIAL SHALL BE REPLACED WITH STRUCTURAL FILL MEETING THE REQUIREMENTS OF THE STRUCTURAL FILL SECTION BELOW.
 14. ALL UNDERCUTTING SHALL BE CONDUCTED UNDER THE OBSERVATION OF THE OWNER'S GEOTECHNICAL ENGINEER.
 15. THE OWNER WILL PROVIDE GEOTECHNICAL TESTING. THE CONTRACTOR SHALL FULLY COOPERATE WITH THE MATERIALS TESTING ENGINEERS RELATIVE TO SOIL COMPACTION, CUTTING AND FILLING OPERATIONS, ETC..
 16. BLASTING (IF REQUIRED)- CONTRACTOR SHALL COMPLY WITH ALL LAWS, RULES AND REGULATIONS OF ALL GOVERNING AUTHORITIES REGARDING THE USE AND STORAGE OF EXPLOSIVES. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS OWNER, ARCHITECT, ENGINEER, OWNER'S REPRESENTATIVE AND THEIR AGENTS AND EMPLOYEES FROM ANY CLAIM ARISING OUT OF THE USE OF SUCH EXPLOSIVES. CARE SHOULD BE TAKEN TO PREVENT DAMAGE TO SURROUNDING PROPERTIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING A PRE-BLAST SURVEY OF THE SURROUNDING PROPERTIES AND MONITORING DURING BLASTING ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING MEANS AND METHODS FOR ACHIEVING DESIRED RESULTS OF BLASTING ACTIVITIES.
 17. FILL SLOPES - SHOULD BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY VALUE (ASTM D-698) ALL THE WAY TO THE EDGE OF THE SLOPE AND SHOULD BE ADEQUATELY BENCHED INTO THE EXISTING HILLSIDE. THIS BENCHING SHOULD BE ACCOMPLISHED BY EXCAVATING HORIZONTALLY TEN (10) FEET ALONG THE HILLSIDE FOR EVERY FIVE (5) FEET IN VERTICAL HEIGHT FORMING A SERIES OF STEPPED BENCHES. FILL SLOPES SHOULD BE OVER STEEPENED FOR COMPACTION & THEN CUT BACK TO FINAL SLOPE.
 18. ROCK FILL SHALL NOT BE USED IN THE UPPER 24" BELOW FINISHED GRADE.
 19. CONTRACTOR SHALL SUBMIT ON-SITE BORROW PLAN TO ENGINEER AND OWNER FOR APPROVAL PRIOR TO COMMENCING ANY EARTHWORk ACTIVITIES.
 20. ON-SITE BORROW AREAS SHALL BE GRADED TO DRAIN AT 2% MIN. AND 3H:1V MAX. SLOPES. CONTRACTOR SHALL ESTABLISH TEMPORARY AND PERMANENT EROSION CONTROL MEASURES WHICH SHALL BE A SUBSIDIARY OBLIGATION OF ON-SITE BORROW.
 21. DUE TO THE PRESENCE OF ROCK OUTCROPS/BOULDERS ON THE SITE, DIFFICULT EXCAVATION COULD BE ENCOUNTERED DURING SITE GRADING OR DURING UTILITY INSTALLATION. IF HARD ROCK IS ENCOUNTERED, IT SHOULD BE UNDERCUT TO A DEPTH OF 1 FOOT BELOW SUBGRADE ELEVATION AND BACKFILLED WITH SUITABLE STRUCTURAL FILL MEETING THE REQUIREMENTS OF THE STRUCTURAL FILL SECTION BELOW.
 22. STRUCTURAL FILL:

REQUIREMENTS:

SOIL TYPE	USCS CLASSIFICATION	PROPERTY REQUIREMENTS	PLACEMENT LOCATION
SAND AND GRAVEL	GW, GP, GM, SW, SP, SM, OR COMBINATIONS	MAXIMUM 2" PARTICLE SIZE	NOT SUITABLE FOR STRUCTURAL FILL
CLAY	CL, SC, GC	LL<50, PI<25, DRY UNIT WEIGHT>100 pcf	ALL LOCATIONS AND DEPTHS
CLAY	CH	LL<50, PI<25, DRY UNIT WEIGHT>100 pcf	ONLY FO RE-USE OF ONSITE EXCAVATION AT DEPTH GREATER THAN 3 FEET BELOW SUBGRADE IN BUILDING AREAS AND 1 FOOT BELOW TOP OF SUBGRADE IN PAVEMENT AREAS. NO IMPORT CH SOIL IS PERMITTED.
SILT	ML, MH	N/A	NOT SUITABLE FOR STRUCTURAL FILL
ON-SITE SOILS	CL, CH	AS LISTED ABOVE	AS LISTED ABOVE

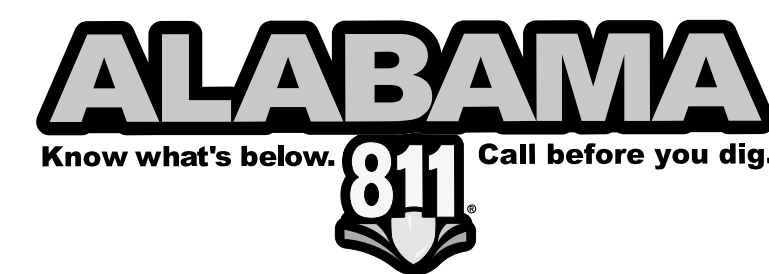
PLACEMENT REQUIREMENTS:

SPECIFICATION	REQUIREMENT
LIFT THICKNESS	MAXIMUM 8-INCH LOOSE LIFTS WHEN COMPACTED WITH LARGE HEAVY COMPACTION EQUIPMENT. MAXIMUM 6-INCH LOOSE LIFTS WHEN COMPACTED WITH LIGHTWEIGHT COMPACTION EQUIPMENT (THINNER LIFTS MAY BE REQUIRED IN CONFINED LOCATIONS.)
DENSITY	MINIMUM OF 98 PERCENT OF MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698 AT ALL LOCATIONS AND DEPTHS.
MOISTURE	+/- 2 PERCENT OF OPTIMUM MOISTURE AS DEFINED BY ASTM D698 FOR COHESIVE SOILS. FOR COHESIONLESS SOILS WITH GREATER THAN 12 PERCENT PASSING THE US STANDARD NO. 200 SIEVE +/- 3 PERCENT OF OPTIMUM MOISTURE AS DEFINED ABOVE. MOISTURE REQUIREMENT IS WAIVED FOR COHESIONLESS SOILS WITH LESS THAN 12 PERCENT PASSING THE NO.200 SIEVE.
DENSITY TESTINTG FREQUENCY	ONE TEST PER 5,000 SF IN PAVEMENT AREAS WITH MINIMUM OF 3 TESTS PER LIFT. ONE TEST PER 200 FEET OF TRENCH BACKFILL WITH MINIMUM OF 2 TEST PER LIFT.

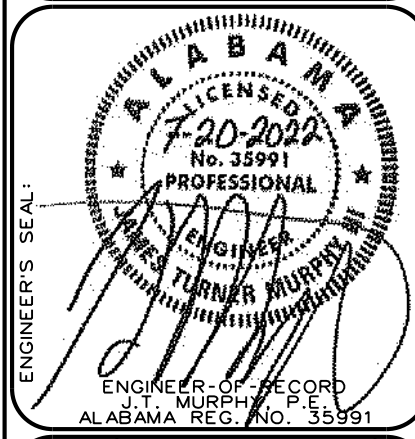
23. FILL SLOPES SHALL BE OVERFILLED AND THEN CUT BACK TO REQUIRED GEOMETRY.
24. THE CONTRACTOR IS RESPONSIBLE FOR THE FINISHED GRADING INCLUDING PLACEMENT OF SOILS AS NECESSARY TO ACHIEVE THE FINISHED GRADES INDICATED ON THE GRADING PLANS. ALL SURFACES SHALL BE SMOOTH WITH PROPER TRANSITIONS BETWEEN GRADIENTS. ALL FINISHED TOPSOIL ELEVATIONS SHALL BE A MINIMUM OF 1" BELOW THE FINISHED ELEVATION OF ADJACENT WALKS AND BACK OF CURB UNLESS OTHERWISE NOTED.
25. CONTRACTOR SHALL TEST FILL MATERIAL IN ACCORDANCE WITH ASTM C136 FOR CONFORMANCE TO ASTM D2487 GRADATION LIMITS. CONTRACTOR SHALL PROVIDE DENSITY TESTING FOR SUBGRADES PRIOR TO FILL PLACEMENT AT THE RATE OF ONE TEST PER 2,500 SF OR FRACTION THEREOF. DENSITY TESTING SHALL BE IN ACCORDANCE WITH ASTM D1556 OR ASTM D6938. CONTRACTOR SHALL PROVIDE DENSITY TESTS TO OWNER'S REPRESENTATIVE WITHIN 48 HOURS OF TEST. IN THE EVENT OF A FAILED TEST, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMEDIAL EFFORTS AND COST TO OBTAIN SPECIFIED COMPACTION RATES IN THE AREA OF THE FAILED TEST INCLUDING SUBSEQUENT TESTING TO VERIFY ADEQUATE COMPACTION.
26. IMMEDIATELY PRIOR TO CONSTRUCTION PAVEMENTS, THE SUBGRADE SHALL BE RESTORED TO A PROPERLY COMPACTED AND MOISTURE CONDITION (98% OF STANDARD PROCTOR WITHIN SPECIFIED LIMITS OF OPTIMUM MOISTURE CONTENT). THE CONTRACTOR SHALL MAINTAIN PROPER SURFACE DRAINAGE DURING GRADING AT THE SITE. IF THE SOILS BECOME WET AFTER BEING EXPOSED IT WILL BECOME NECESSARY TO UNDERCUT OR RECONDITION THE SOILS AT THE CONTRACTOR'S EXPENSE.
27. IF GROUNDWATER IS ENCOUNTERED AT ANY POINT DURING CONSTRUCTION, CONTRACTOR SHALL STOP WORK AND CONTACT OWNER AND ENGINEER IMMEDIATELY.

CAUTION NOTICE TO CONTRACTOR:

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PROJECT NOTES

THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

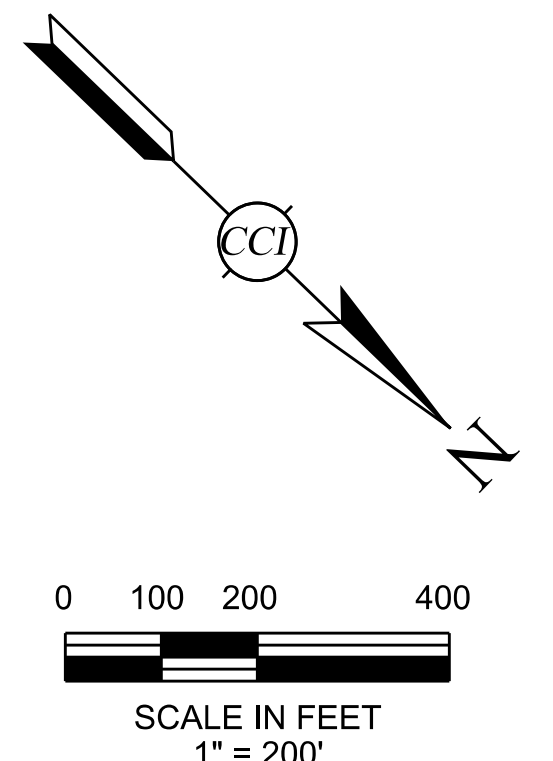
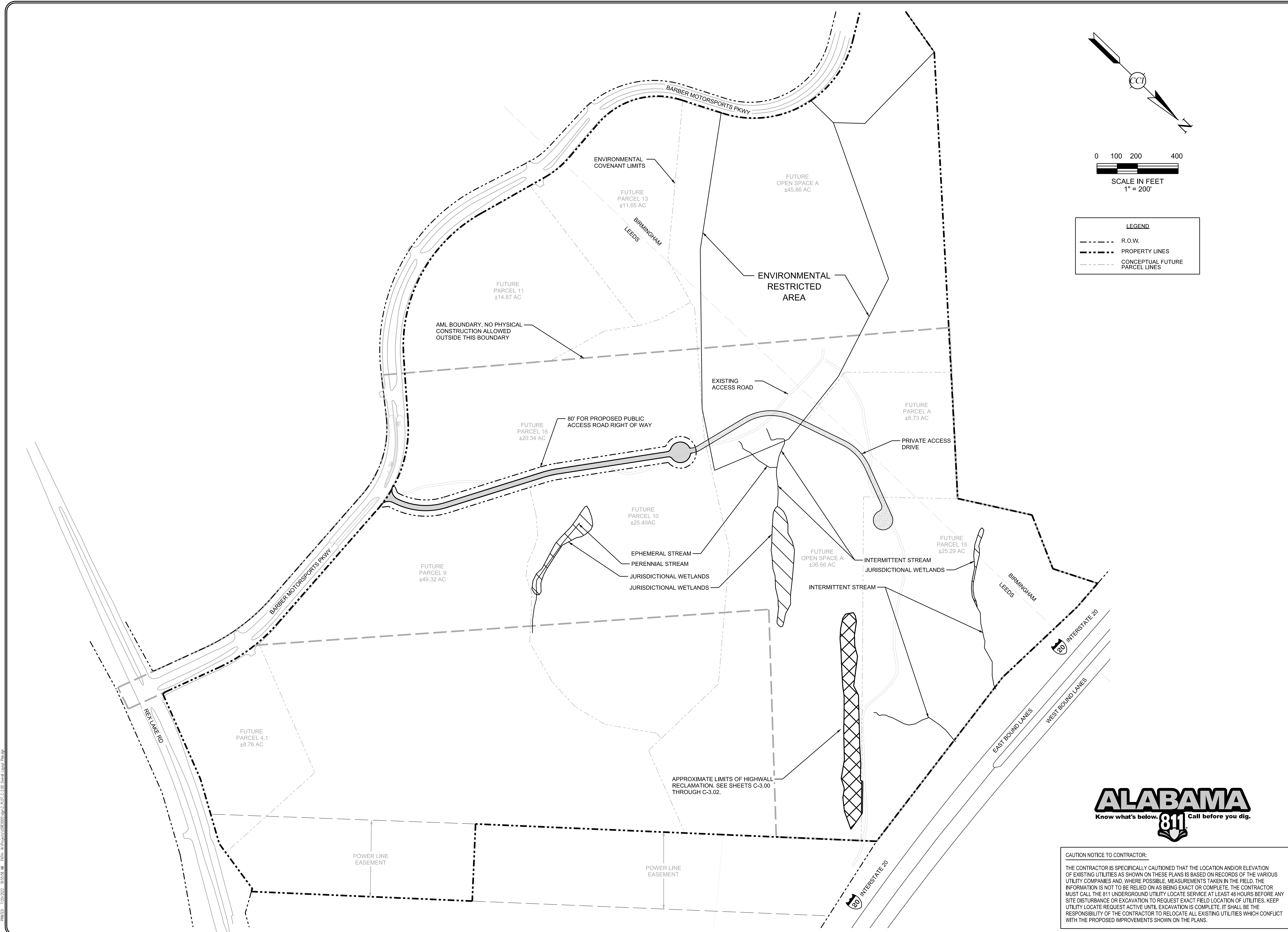
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CHECKED BY: BAG
DATE: 07/20/2022

PROJECT NO: USRE0005

SCALE: N.T.S.

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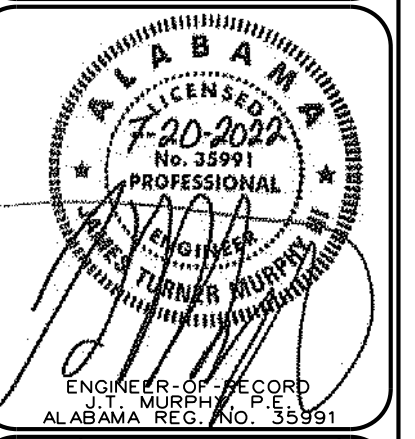
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LEGEND

- R.O.W.
- PROPERTY LINES
- CONCEPTUAL FUTURE PARCEL LINES

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OVERALL LAYOUT FOR INFORMATIONAL PURPOSES

THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT NO. USRE0005
DATE: 07/20/2022
DRAWN BY: BAG
CHECKED BY: JTM
SCALE: 1" = 200'

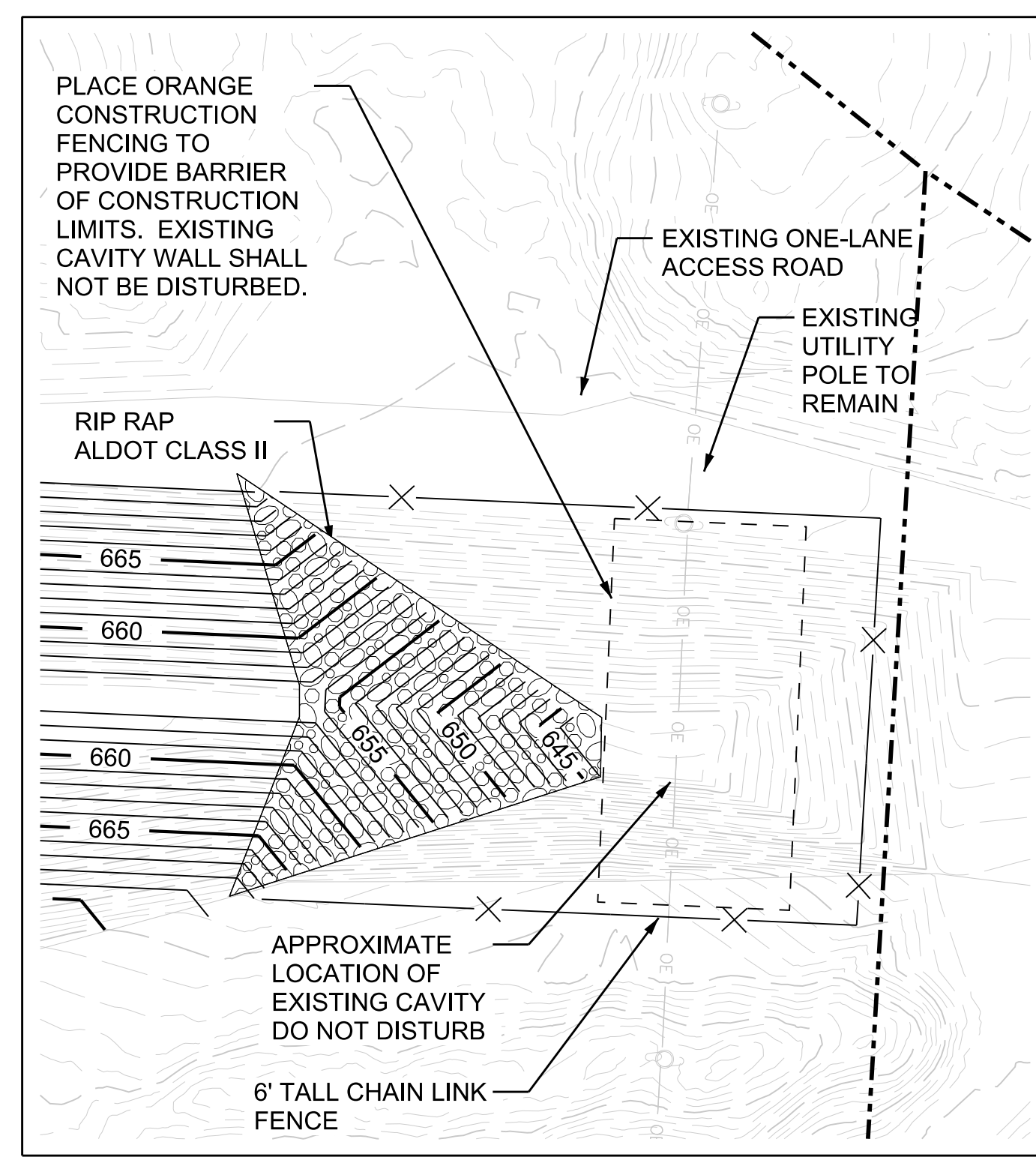
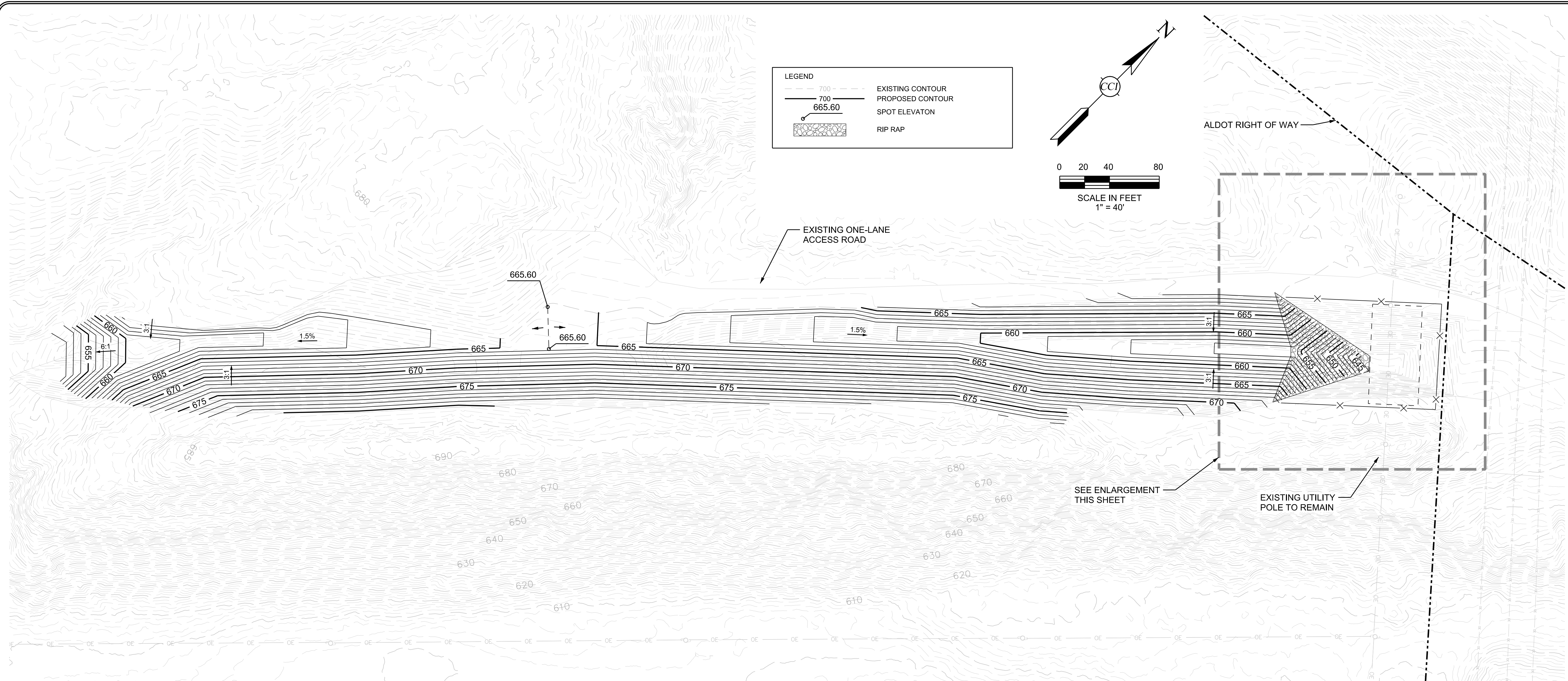
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CAUTION NOTICE TO CONTRACTOR:

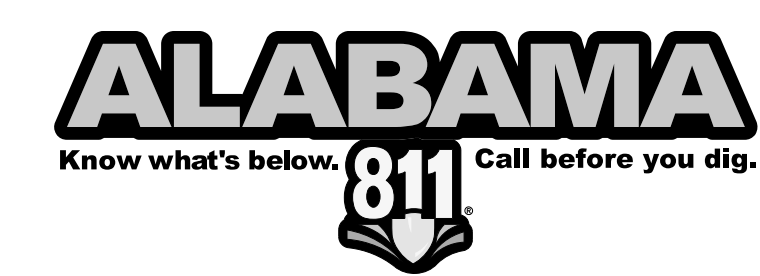
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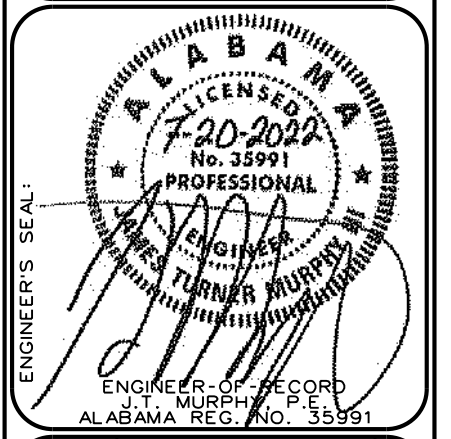


ENLARGEMENT
SCALE: 1" = 30'

CAUTION NOTICE TO CONTRACTOR:
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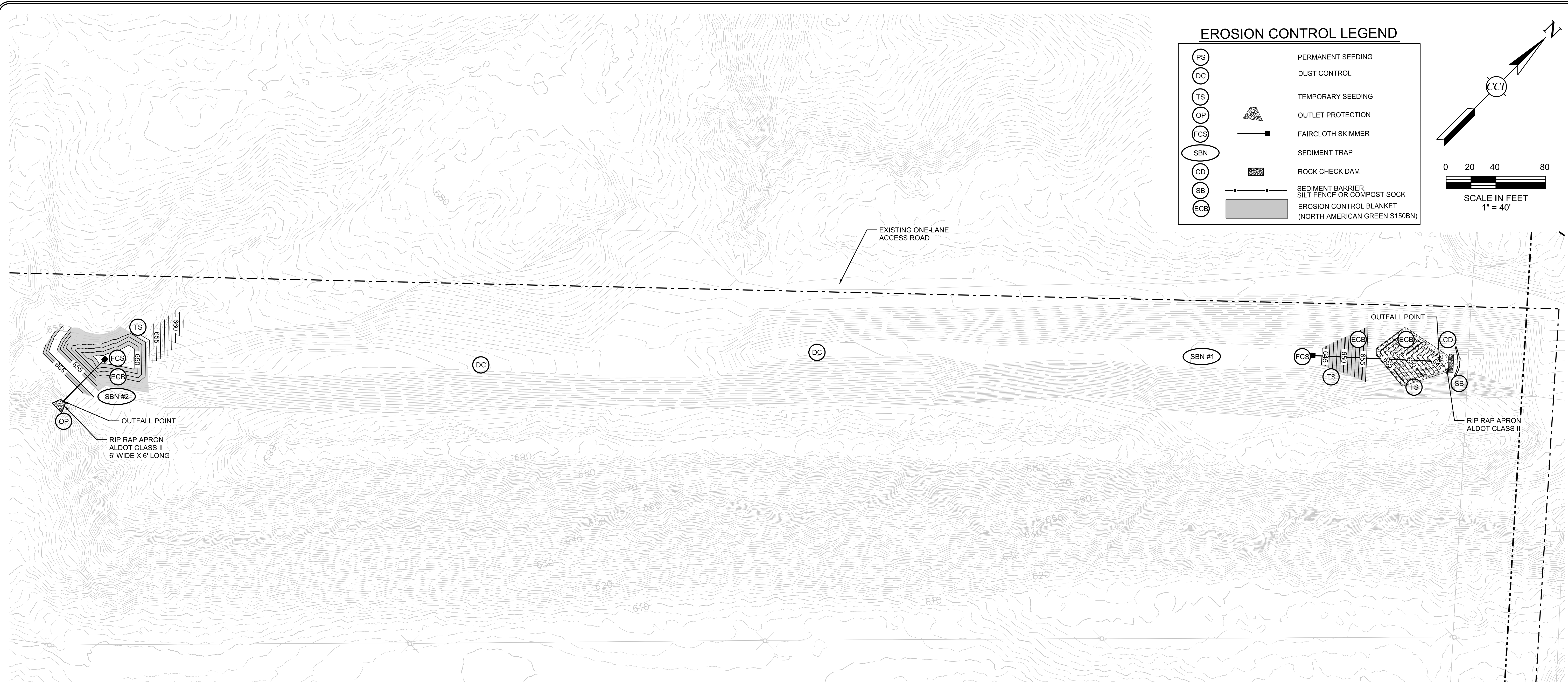
HIGHWALL GRADING PLAN
THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT: USRE0005
DATE: 07/20/2022
SCALE: 1" = 40'

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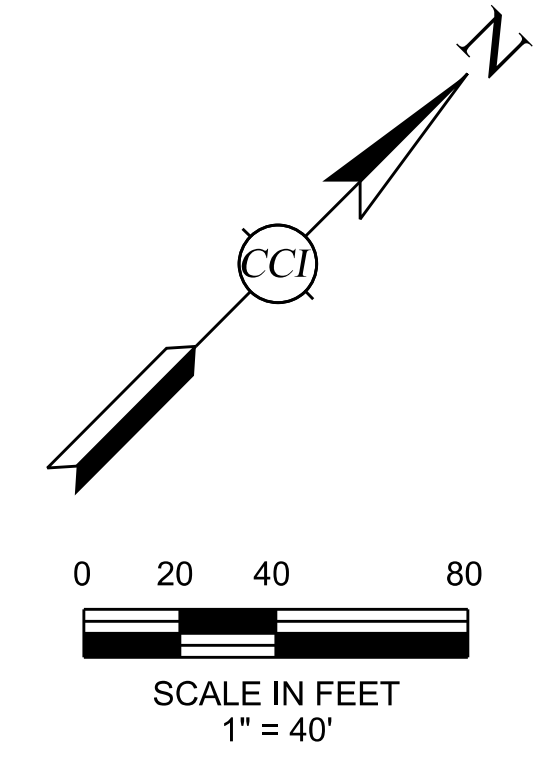
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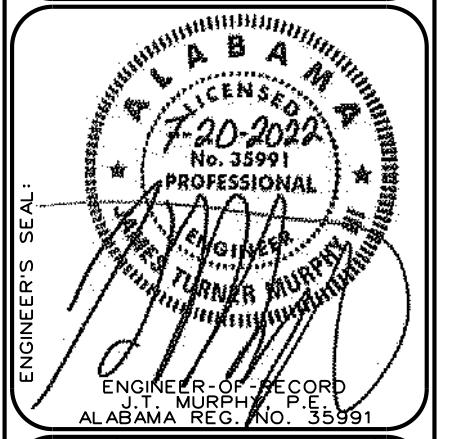


EROSION CONTROL LEGEND

(PS)	PERMANENT SEEDING
(DC)	DUST CONTROL
(TS)	TEMPORARY SEEDING
(OP)	OUTLET PROTECTION
(FCS)	FAIRCLOTH SKIMMER
(SBN)	SEDIMENT TRAP
(CD)	ROCK CHECK DAM
(SB)	SEDIMENT BARRIER, SILT FENCE OR COMPOST SOCK
(ECB)	EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S150BN)



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ENGINEER'S SEAL
ALABAMA
7-20-2022
No. 3591
J. TURNER
PROFESSIONAL ENGINEER
ALABAMA REG. NO. 3591

FILE: HIGHWALL INITIAL EROSION AND SEDIMENT CONTROL PLAN
THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION
PROJECT USRE0005
DATE 07/20/2022
DRAWN BY: WPRM
CHECKED BY: JTM
SCALE: 1" = 40'

EROSION & SEDIMENT CONTROL NOTES:

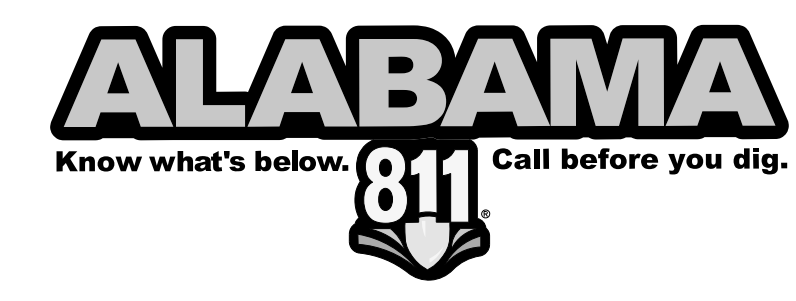
1. THE LIMIT OF DISTURBANCE IS GREATER THAN ONE ACRE AND THEREFORE A NPDES PERMIT IS NOT REQUIRED. THE CONTRACTOR SHALL PROVIDE ANY AND ALL EROSION CONTROL DEVICES MEASURES AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING THE SITE, EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE BY INSTALLING EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DO NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION CONTROL DEVICES WHICH BECOME INEFFECTIVE.
4. ALL EROSION CONTROL MEASURES SHALL MEET THE GUIDELINES SET FORTH IN THE ALABAMA EROSION CONTROL HANDBOOK AS A MINIMUM STANDARD.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES PRIOR TO BEGINNING CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM THE SITE (IF NOT REUSABLE ON SITE) AND FOR CORRECTING HORIZONTAL AND VERTICAL ALIGNMENT OF SLOPES & DITCHES, IF NECESSARY, AT THE COMPLETION OF CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON THE COMPLETION OF CONSTRUCTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
10. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
11. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED.
12. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL CONFORM TO THE LATEST EROSION AND SEDIMENTATION CONTROL REGULATIONS FOR THE STATE.
13. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER HANDLING AND STORAGE OF HAZARDOUS MATERIALS SUCH AS: PAINTS, FUELS FERTILIZERS, POISONS, ETC., DURING CONSTRUCTION. APPROPRIATE SPILL PREVENTION SHOULD BE IMPLEMENTED TO REDUCE THE POSSIBILITY OF CONTAMINATING STORM WATER RUNOFF.
15. CONTRACTOR TO PROVIDE TEMPORARY GROUND COVER FOR ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF 14 DAYS OR MORE.
16. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL AND PERFORM NECESSARY REPAIRS AND MAINTENANCE. IN AREAS WHERE INITIAL EROSION CONTROL IS INEFFECTIVE, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED.

INITIAL EROSION CONTROL SEQUENCE:

1. INSTALL SEDIMENT BARRIER.
2. CLEAR, GRUB, STRIP AND STOCKPILE TOPSOIL.
3. INSTALL SILT FENCE AROUND TOPSOIL STOCKPILE. IMMEDIATELY TEMPORARILY SEED STOCKPILE, BUT IN NO CASE MORE THAN 13 DAYS AFTER LAST DISTURBANCE. PERMANENTLY SEED STOCKPILE AFTER 30 DAYS OF INACTIVITY.
4. CONSTRUCT SEDIMENT TRAP #1 (SBN#1).
5. CONSTRUCT SEDIMENT TRAP #2 (SBN#2).
6. INSTALL EROSION CONTROL BLANKET ON SEDIMENT TRAP SLOPES.
7. INSTALL RIP RAP OUTLET PROTECTION AND ROCK DITCH CHECKS AS INDICATED.
8. PROVIDE TEMPORARY SEEDING OF SEDIMENT TRAPS.
9. DEMOLITION EFFORTS THAT RESULT IN EXPOSING SUBGRADE SOILS SHALL NOT COMMENCE UNTIL AFTER ALL INITIAL EROSION CONTROL MEASURES ARE FULLY IMPLEMENTED.

SEDIMENT TRAP #2 SIZING
2.92 AC. DRAINAGE AREA X 3600 CU. FT. = 10,512 CU. FT.
11,348 CU. FT. PROVIDED AT ELEVATION 659.60
POND BOTTOM = 649.00
BERM ELEVATION = 656.00

SEDIMENT TRAP #1 SIZING
2.64 AC. DRAINAGE AREA X 3600 CU. FT. = 9,540 CU. FT.
9,558 CU. FT. PROVIDED AT ELEVATION 647.50
POND BOTTOM = 644.00
BERM ELEVATION = 656

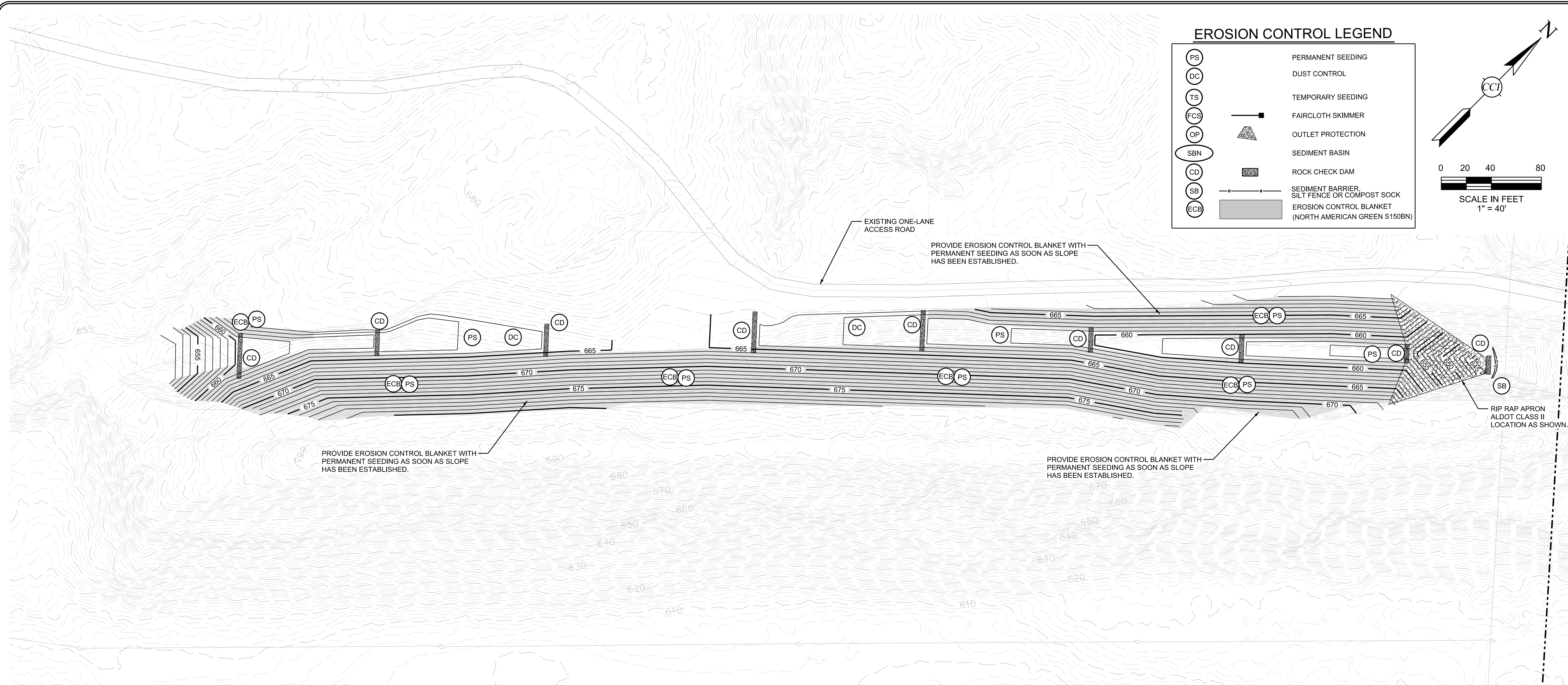


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NO.	REVISIONS	BY	DATE
0	ISSUE FOR PERMIT	JTM	07/20/2022

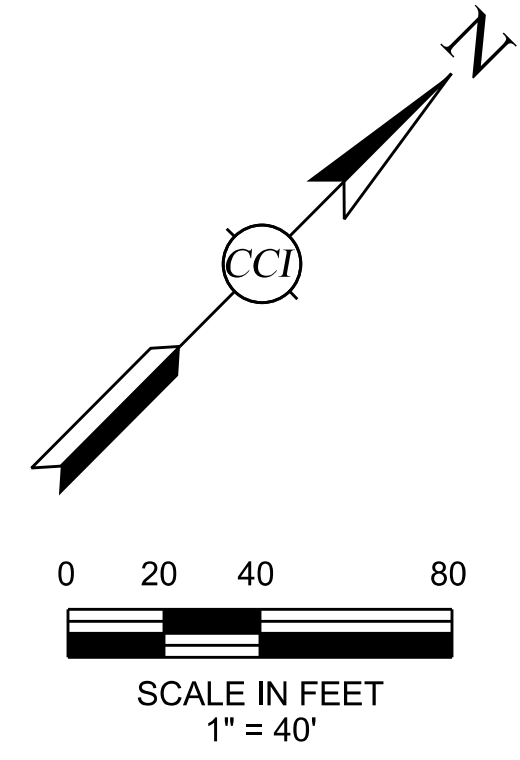
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EROSION CONTROL LEGEND

PS	PERMANENT SEEDING
DC	DUST CONTROL
TS	TEMPORARY SEEDING
FCS	FAIRCLOTH SKIMMER
OP	OUTLET PROTECTION
SBN	SEDIMENT BASIN
CD	ROCK CHECK DAM
SB	SEDIMENT BARRIER, SILT FENCE OR COMPOST SOCK
ECB	EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S150BN)



PROVIDE EROSION CONTROL BLANKET WITH PERMANENT SEEDING AS SOON AS SLOPE HAS BEEN ESTABLISHED.

PROVIDE EROSION CONTROL BLANKET WITH PERMANENT SEEDING AS SOON AS SLOPE HAS BEEN ESTABLISHED.

PROVIDE EROSION CONTROL BLANKET WITH PERMANENT SEEDING AS SOON AS SLOPE HAS BEEN ESTABLISHED.

RIP RAP APRON ALDOT CLASS II LOCATION AS SHOWN.

INTERMEDIATE EROSION CONTROL SEQUENCE:

1. REFERENCE EROSION AND SEDIMENT CONTROL NOTES ON SHEET C-3.01.
2. CLEAR AND GRUB TO LIMITS OF GRADING.
3. REMOVE SOFT, YEILDING OR OTHERWISE UNSUITABLE MATERIALS.
4. BEGIN SITE GRADING ACTIVITIES. PREPARE SUBGRADE MATERIAL AND PROVIDE ENGINEERED FILL MATERIAL AS DIRECTED BY THE GEOTECHNICAL ENGINEERING REPORT.
5. MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
6. INSPECT, MAINTAIN, MOVE AND REPAIR TEMPORARY SEDIMENT CONTROL DEVICES AS REQUIRED THROUGHOUT THE CONSTRUCTION DURATION.
7. CLEAN ACCUMULATED SEDIMENT FROM SEDIMENT TRAPS WHEN REACHING A LEVEL OF ONE-THIRD FULL.
8. IMMEDIATELY PROVIDE TEMPORARY SEEDING OF ALL AREAS OF EXPOSED SOIL NOT TO BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF 13 DAYS OR LONGER.

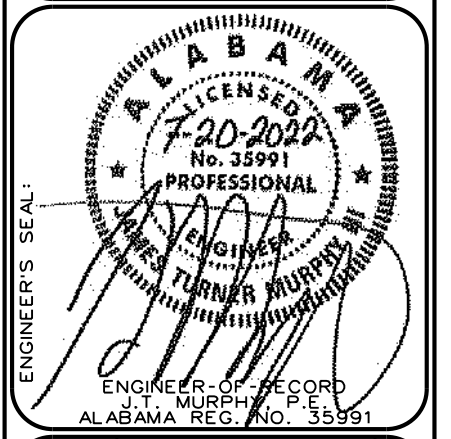
FINAL EROSION CONTROL SEQUENCE:

1. REFERENCE EROSION AND SEDIMENT CONTROL NOTES ON SHEET C-3.01.
2. REMOVE SEDIMENT FROM STORMWATER SEDIMENT TRAPS.
3. PROVIDE PERMANENT SEEDING OF NON PAVED DISTURBED AREAS.
4. INSTALL EROSION CONTROL MATTING ON ALL SLOPES 3:1 AND STEEPER IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINAL SLOPE GRADES.
5. AFTER ALL AREAS ARE STABILIZED, REMOVE CONSTRUCTION ENTRANCES, SILT BARRIERS, AND OTHER TEMPORARY SEDIMENT CONTROL DEVICES.
6. AFTER ALL AREAS ARE STABILIZED, REMOVE FAIRCLOTH SKIMMER.



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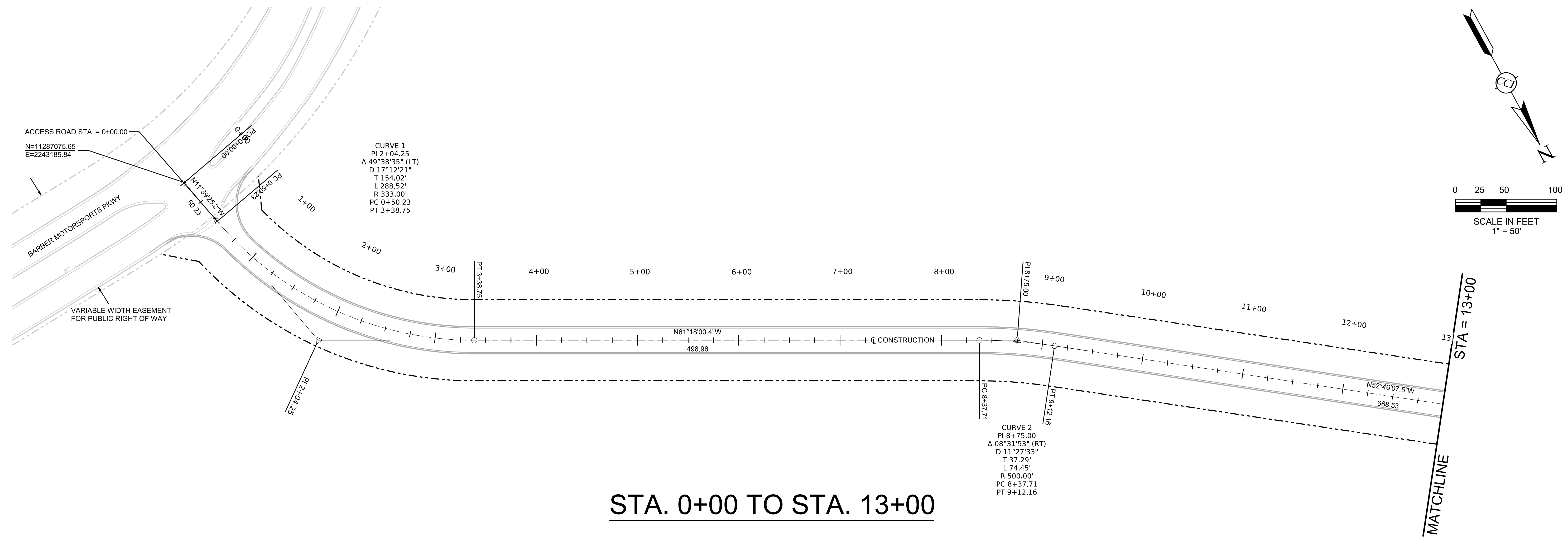
3528 Vann Road
 Suite 105
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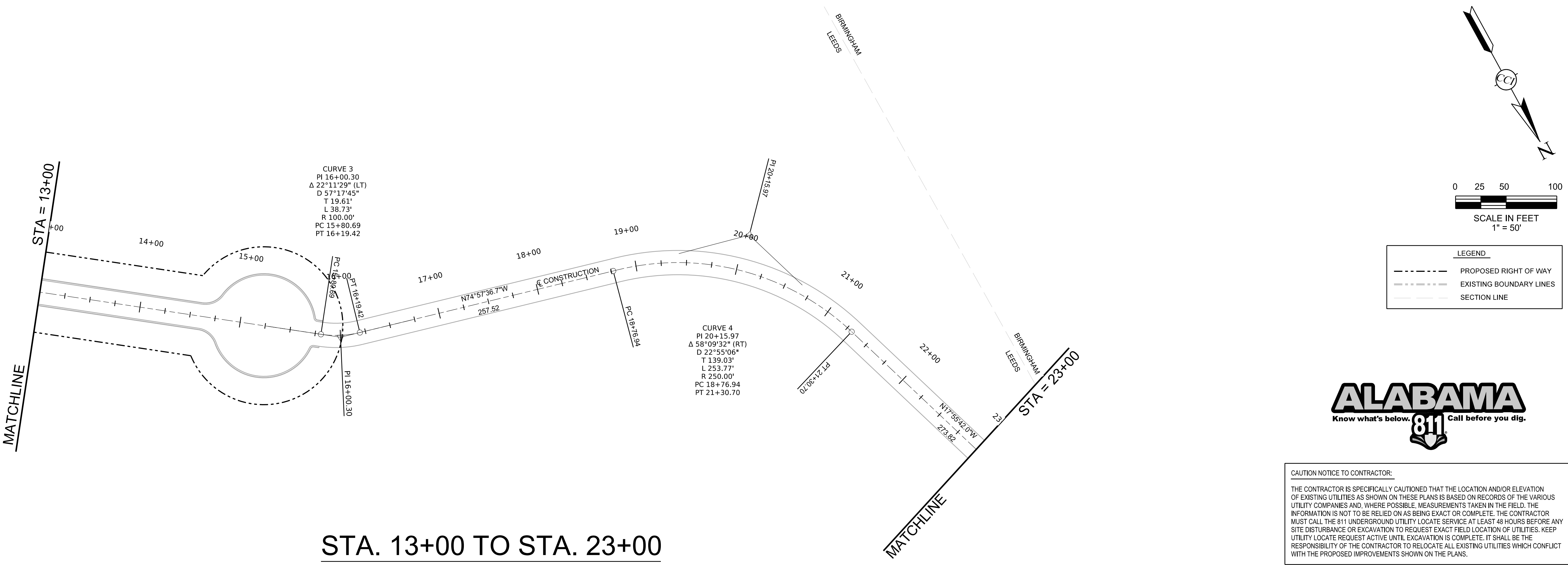
FILE: HIGHWALL INTERMEDIATE-FINAL EROSION AND SEDIMENT CONTROL PLAN
 PROJECT: THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR: U.S. STEEL CORPORATION
 PROJECT NO: USRE0005
 DATE: 07/20/2022
 DRAWN BY: WPRM
 CHECKED BY: JTM
 SCALE: 1" = 40'

NO.	REVISIONS	DESCRIPTION	DATE	BY	CHECKED BY
0	ISSUE FOR PERMIT			BAG	JTM

DRAWING NO. **C-3.02**



STA. 0+00 TO STA. 13+00



STA. 13+00 TO STA. 23+00

LEGEND

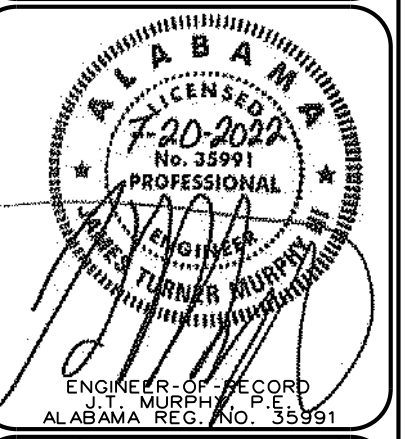
- PROPOSED RIGHT OF WAY
- - - EXISTING BOUNDARY LINES
- SECTION LINE



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GEOMETRIC LAYOUT (STA. 0+00 TO STA. 23+00)

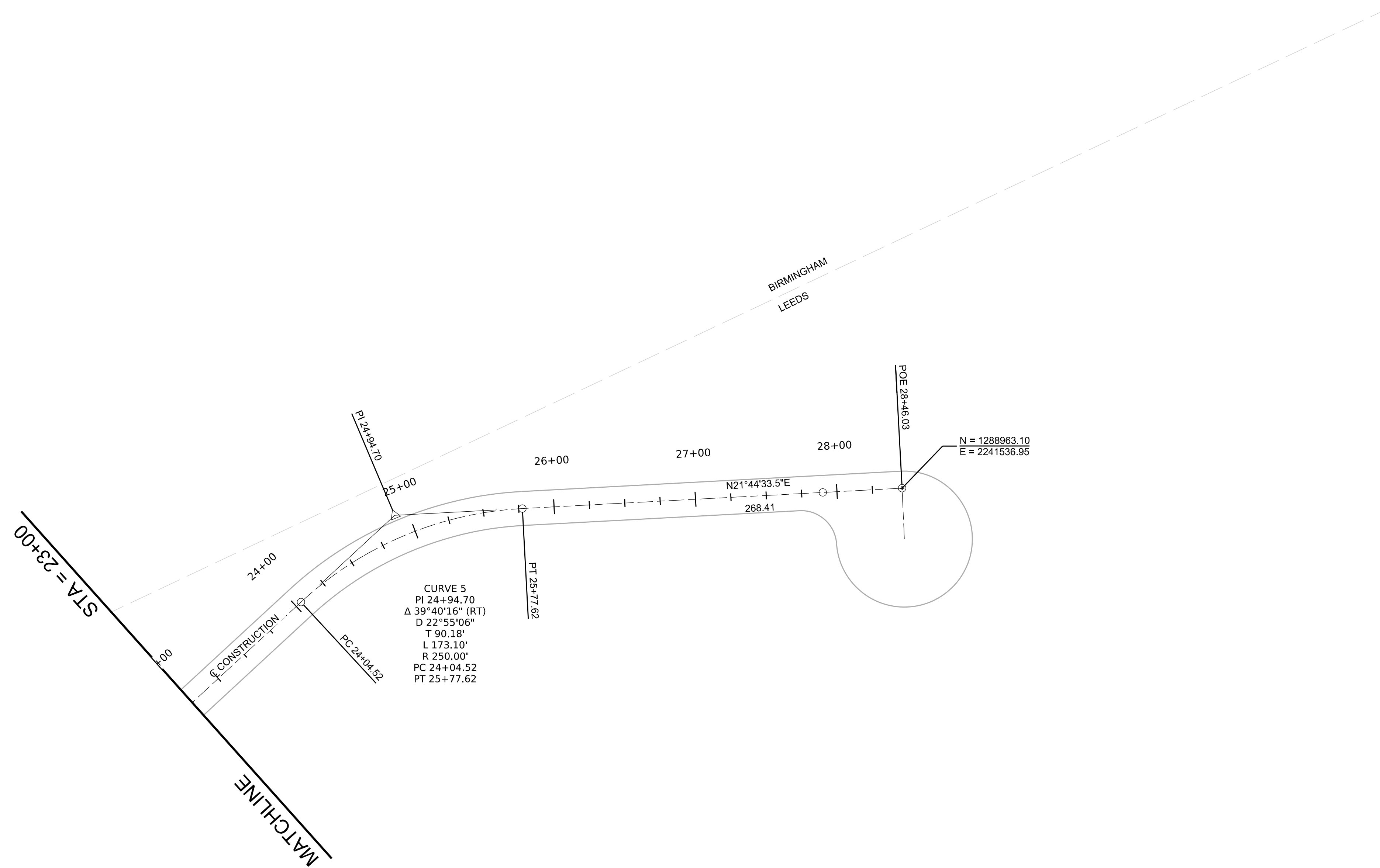
THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT USRE0005 DRAWN BY: BAG CHECKED BY: JTM SCALE: 1" = 50'

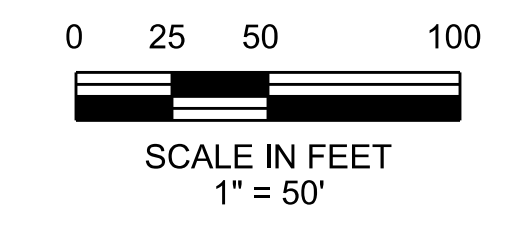
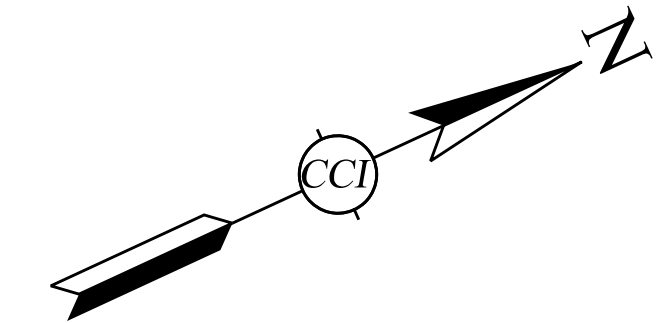
DATE: 07/20/2022

NO.	DESCRIPTION	BY	CHECKED BY	REV.	DATE
0	ISSUE FOR PERMIT	BAG	JTM		07/20/2022

DRAWING NO. **C-4.00**



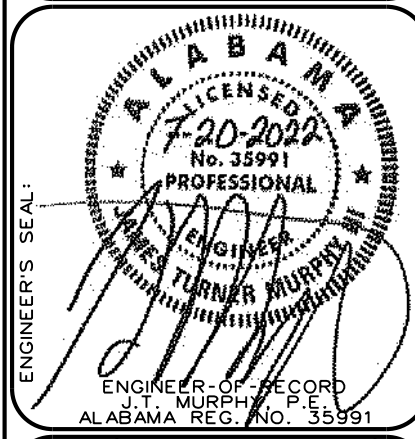
STA. 23+00 TO END



LEGEND

- PROPOSED RIGHT OF WAY
- - - EXISTING BOUNDARY LINES
- SECTION LINE

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 www.ccope.com



ENGINEER'S SEAL
 J. M. TURNER
 PROFESSIONAL ENGINEER
 No. 3591
 ALABAMA REG. NO. 3591

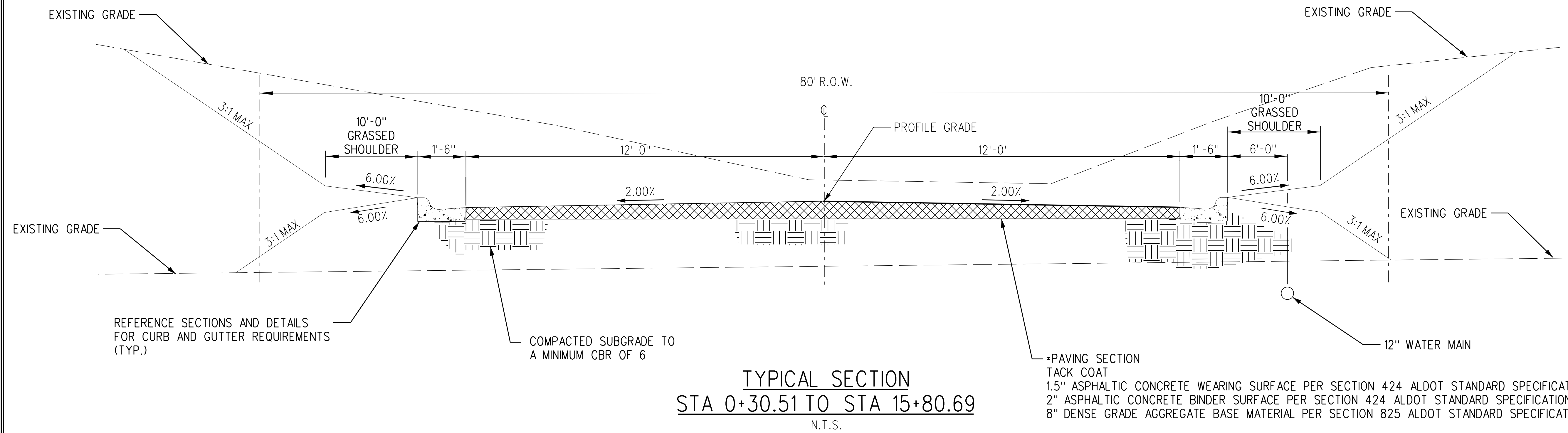
NO.	DESCRIPTION	BY	CHECKED BY	REV.	DATE
0	ISSUE FOR PERMIT	BAG	JTM		07/20/2022

DRAWING NO.
C-4.01

FILE: GEOMETRIC LAYOUT (STA. 23+00 TO END)
 PROJECT: THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR: U.S. STEEL CORPORATION
 PROJECT NO: USRE0005
 DRAWN BY: BAG
 CHECKED BY: JTM
 SCALE: 1" = 50'

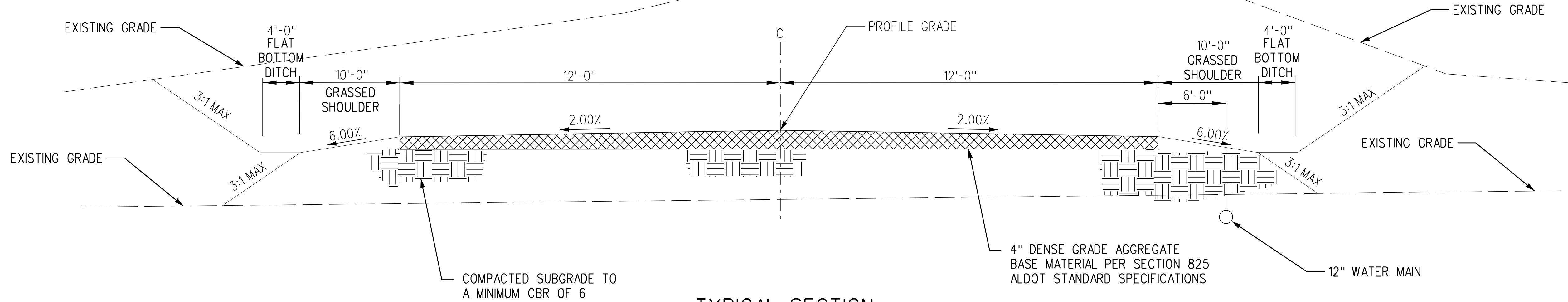
CAUTION NOTICE TO CONTRACTOR:
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TYPICAL SECTION
STA 0+30.51 TO STA 15+80.69
 N.T.S.

•PAVING SECTION
 TACK COAT
 1.5" ASPHALTIC CONCRETE WEARING SURFACE PER SECTION 424 ALDOT STANDARD SPECIFICATIONS
 2" ASPHALTIC CONCRETE BINDER SURFACE PER SECTION 424 ALDOT STANDARD SPECIFICATIONS
 8" DENSE GRADE AGGREGATE BASE MATERIAL PER SECTION 825 ALDOT STANDARD SPECIFICATIONS



TYPICAL SECTION
15+80.69 TO END
 N.T.S.

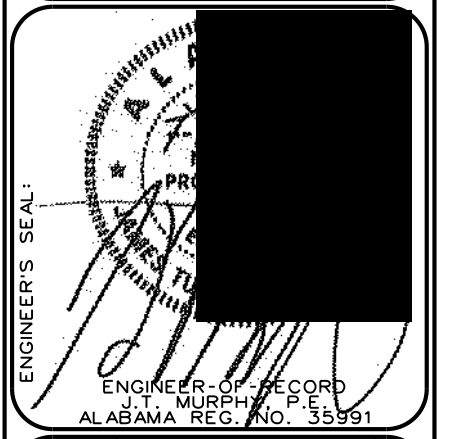
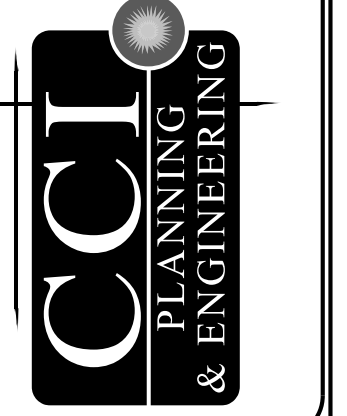
4" DENSE GRADE AGGREGATE
 BASE MATERIAL PER SECTION 825
 ALDOT STANDARD SPECIFICATIONS

NOTE:
 CONTRACTOR SHALL ALSO REFERENCE PLAN AND
 PROFILE SHEETS AND CROSS SECTIONS FOR
 COMPLETE GRADING REQUIREMENTS.

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 OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS
 UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE
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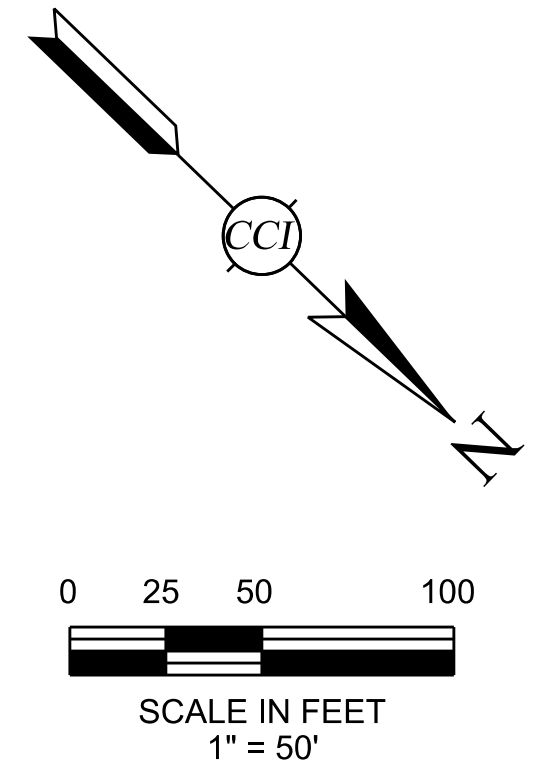
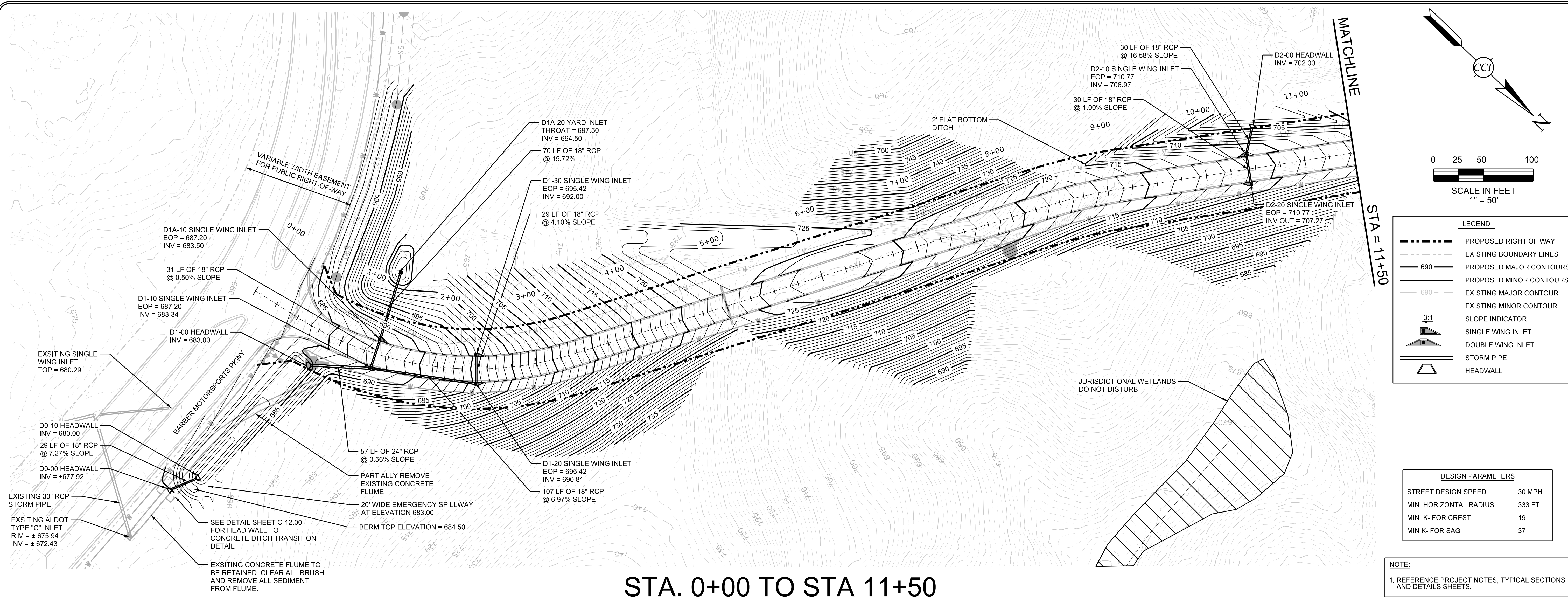
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TYPICAL SECTIONS
 THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR
 U.S. STEEL CORPORATION
 PROJECT NO. USRE0005
 DRAWN BY: JTM
 CHECKED BY: BAG
 DATE: 07/20/2022
 SCALE: N.T.S.

NO.	DESCRIPTION	BY	CHECKED BY	REV.	DATE
0	ISSUE FOR PERMIT	JTM	JTM		07/20/2022

DRAWING NO.
C-5.00



LEGEND

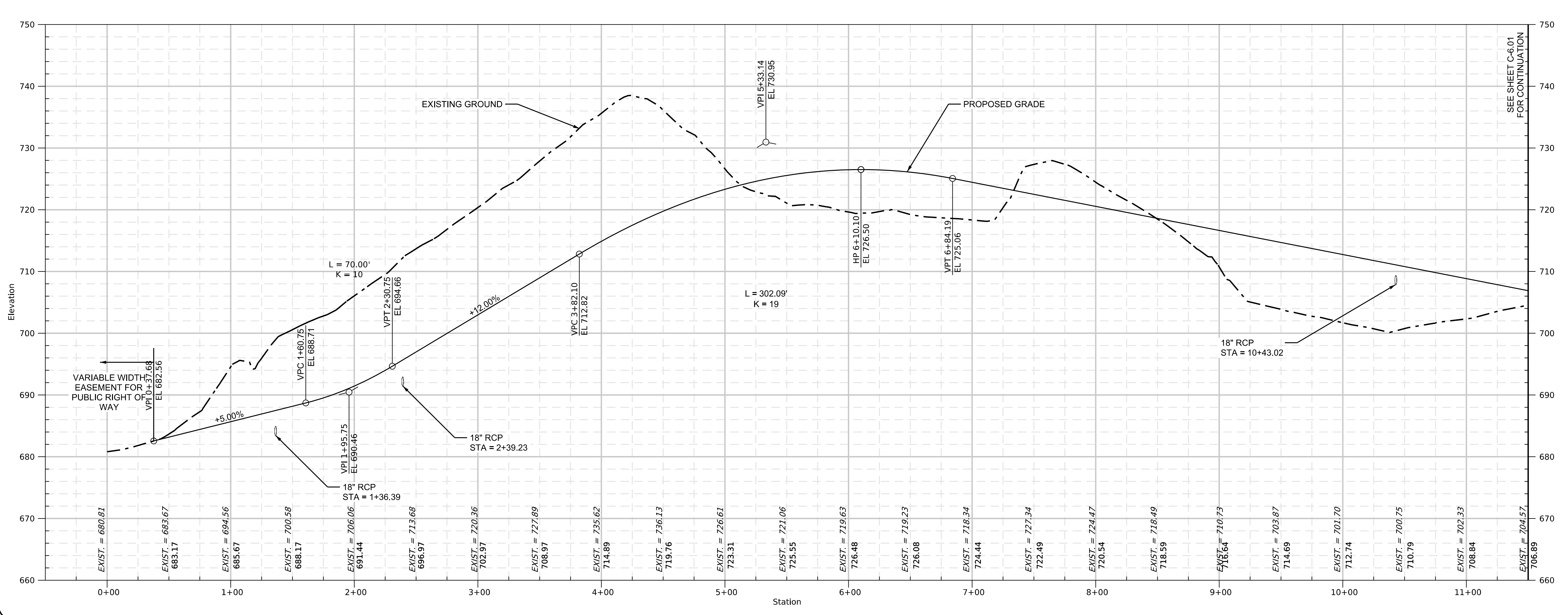
- PROPOSED RIGHT OF WAY
- EXISTING BOUNDARY LINES
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- SLOPE INDICATOR
- SINGLE WING INLET
- DOUBLE WING INLET
- STORM PIPE
- HEADWALL

DESIGN PARAMETERS

STREET DESIGN SPEED	30 MPH
MIN. HORIZONTAL RADIUS	333 FT
MIN. K- FOR CREST	19
MIN K- FOR SAG	37

NOTE:
1. REFERENCE PROJECT NOTES, TYPICAL SECTIONS, AND DETAILS SHEETS.

STA. 0+00 TO STA 11+50



LEGEND

- PROPOSED GRADE
- EXISTING GROUND



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& ENGINEERING

ALABAMA
Professional Engineer
No. 1591
Turner Andrew
Alabama Reg. No. 35991

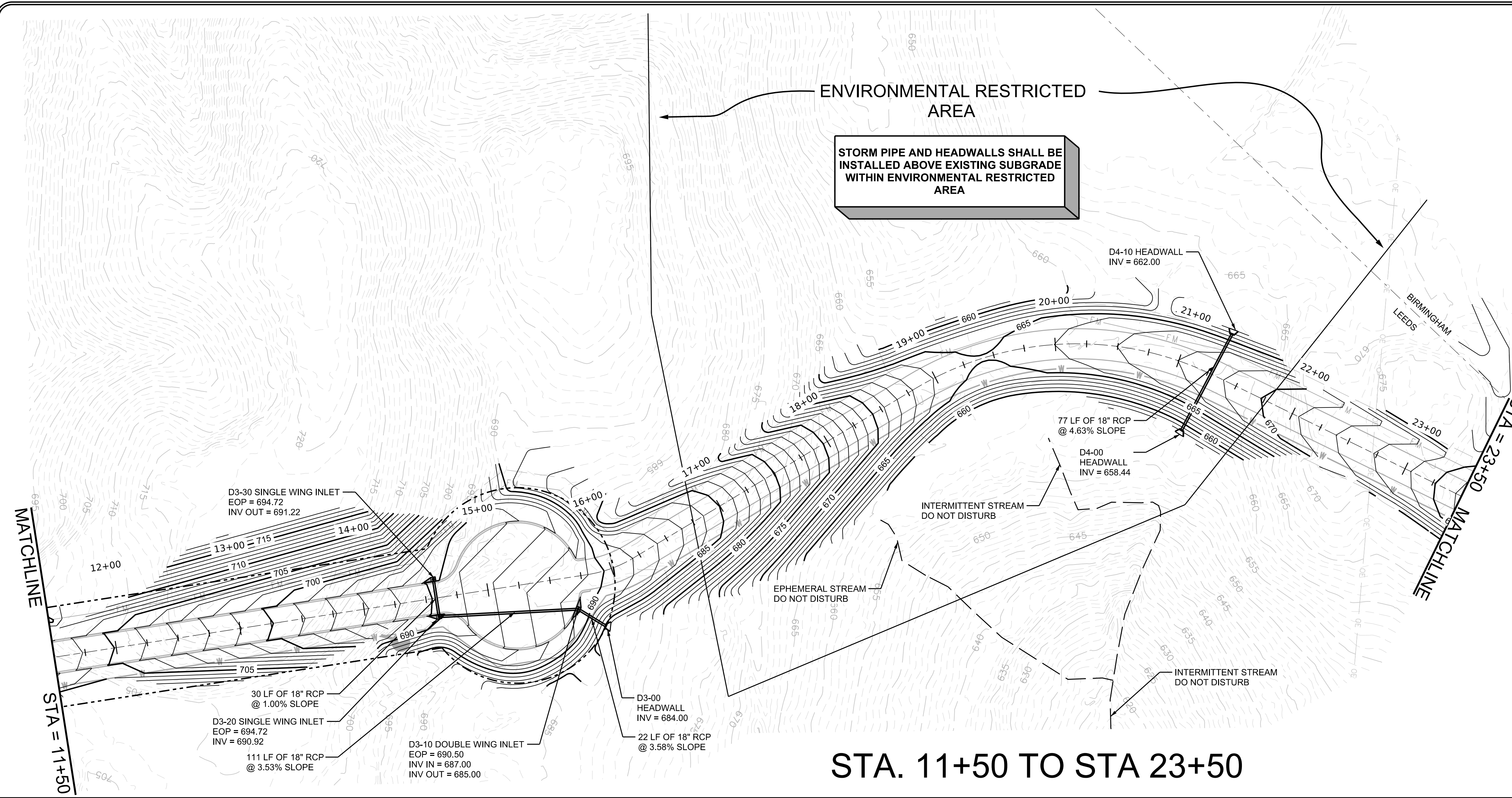
PLAN AND PROFILE (STA 0+00 STA 11+50)

THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

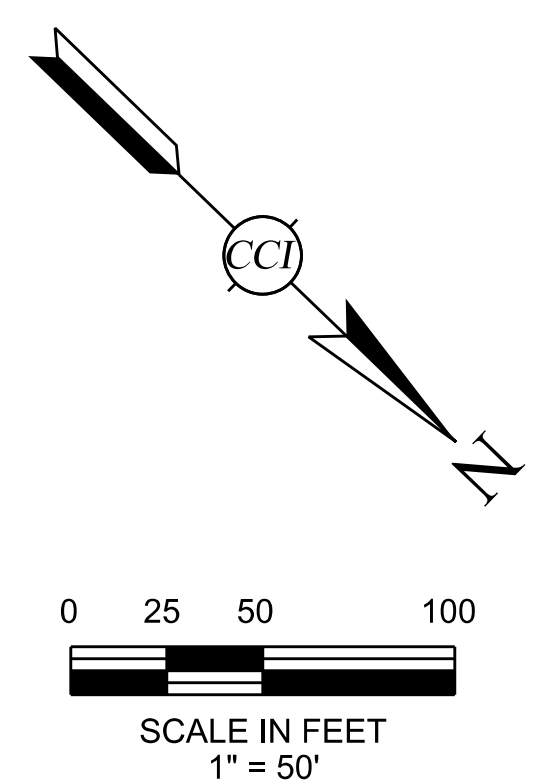
PROJECT NO. USRE0005
DATE: 07/20/2022
DRAWN BY: BAG
CHECKED BY: JTM
SCALE: 1" = 50'

NO.	DESCRIPTION	REV.	DATE
0	ISSUE FOR PERMIT		

DRAWING NO. **C-6.00**



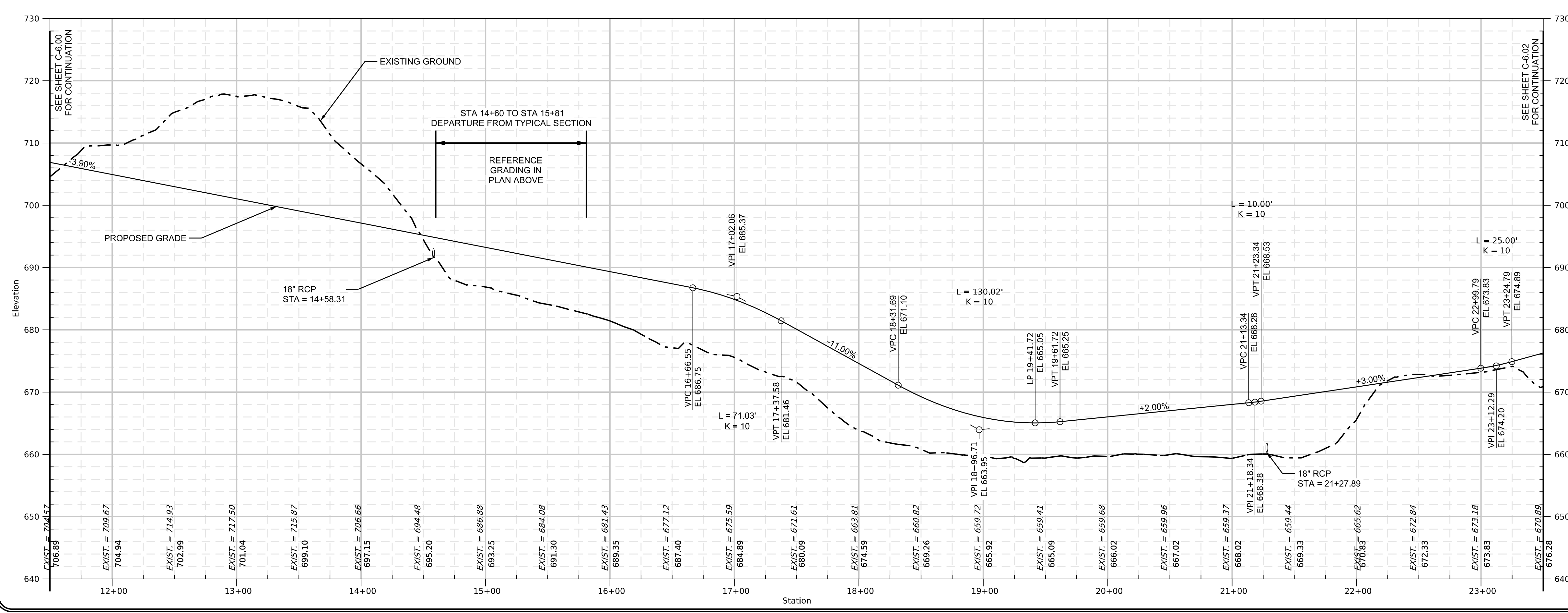
STA. 11+50 TO STA 23+50



DESIGN PARAMETERS	
STREET DESIGN SPEED	30 MPH
MIN. HORIZONTAL RADIUS	333 FT
MIN. K- FOR CREST	19
MIN K- FOR SAG	37

NOTE:
1. REFERENCE PROJECT NOTES, TYPICAL SECTIONS, AND DETAILS SHEETS.

LEGEND	
	PROPOSED RIGHT OF WAY
	EXISTING BOUNDARY LINES
	PROPOSED MAJOR CONTOURS
	PROPOSED MINOR CONTOURS
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	SLOPE INDICATOR
	SINGLE WING INLET
	DOUBLE WING INLET
	STORM PIPE
	HEADWALL



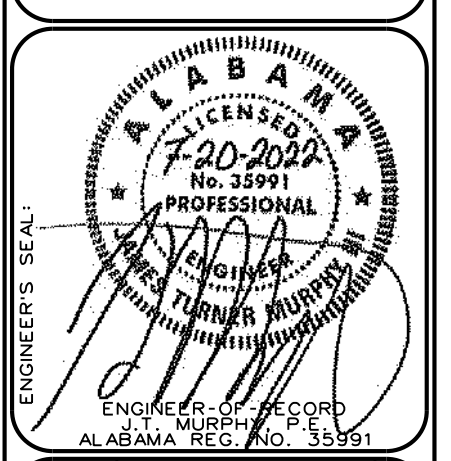
VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=50'

LEGEND	
	PROPOSED GRADE
	EXISTING GROUND



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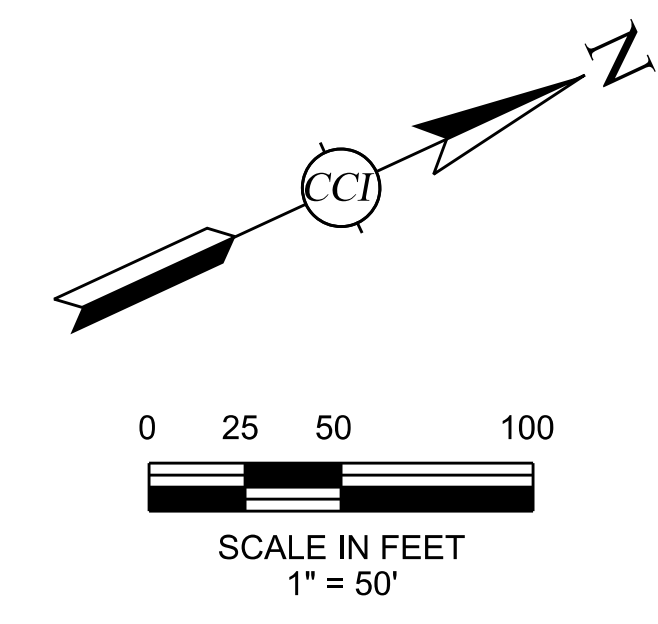
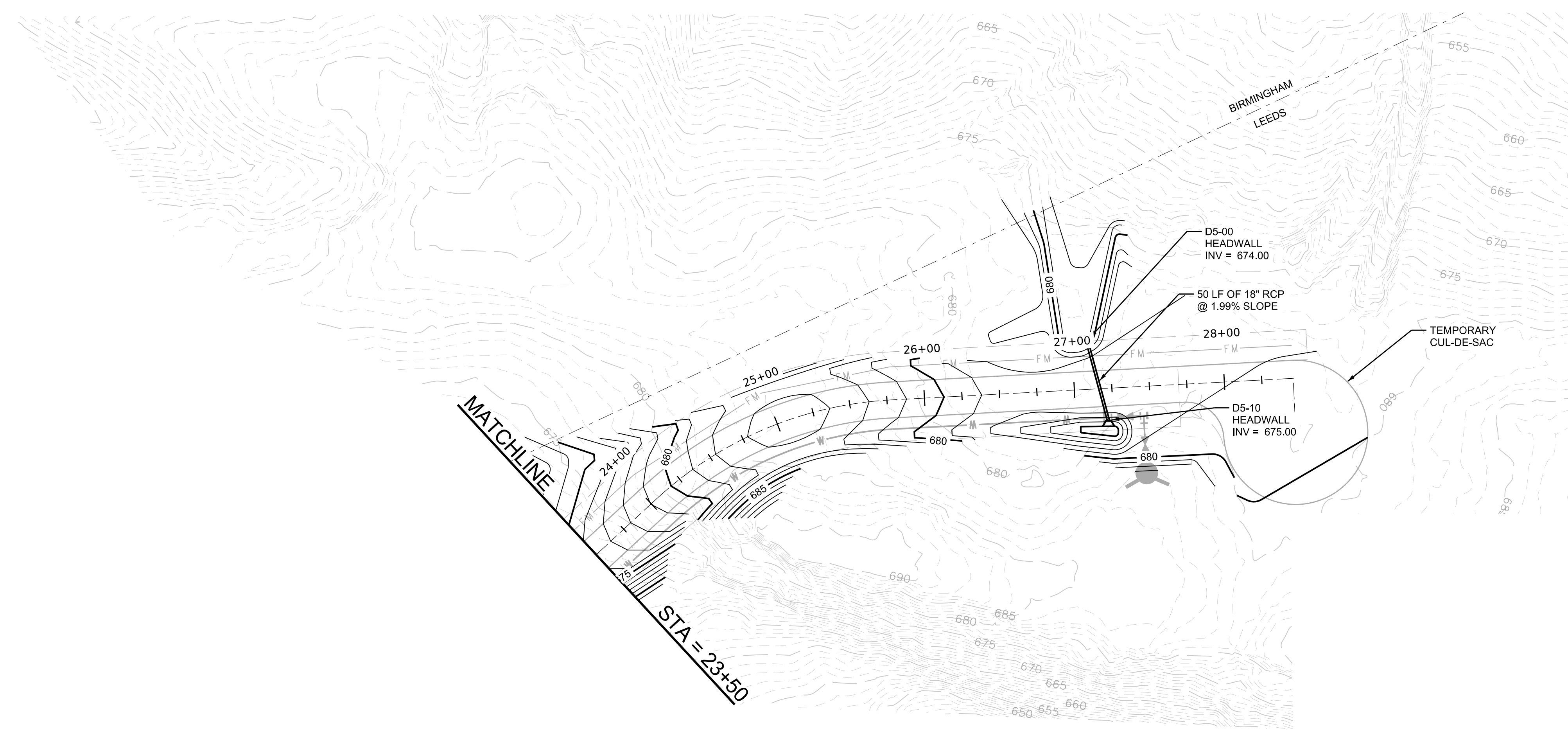
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FILE: **PLAN AND PROFILE (STA. 11+50 TO STA. 23+50)**
PROJECT: **THE PARCEL 15 PROJECT**
LEEDS, ALABAMA
FOR: **U.S. STEEL CORPORATION**
DATE: 07/20/2022
PROJECT NO: USRE0005
DRAWN BY: BAG
CHECKED BY: JTM
SCALE: 1" = 50'

NO.	DESCRIPTION	BY	DATE
0	ISSUE FOR PERMIT	BAG	07/20/2022

DRAWING NO. **C-6.01**

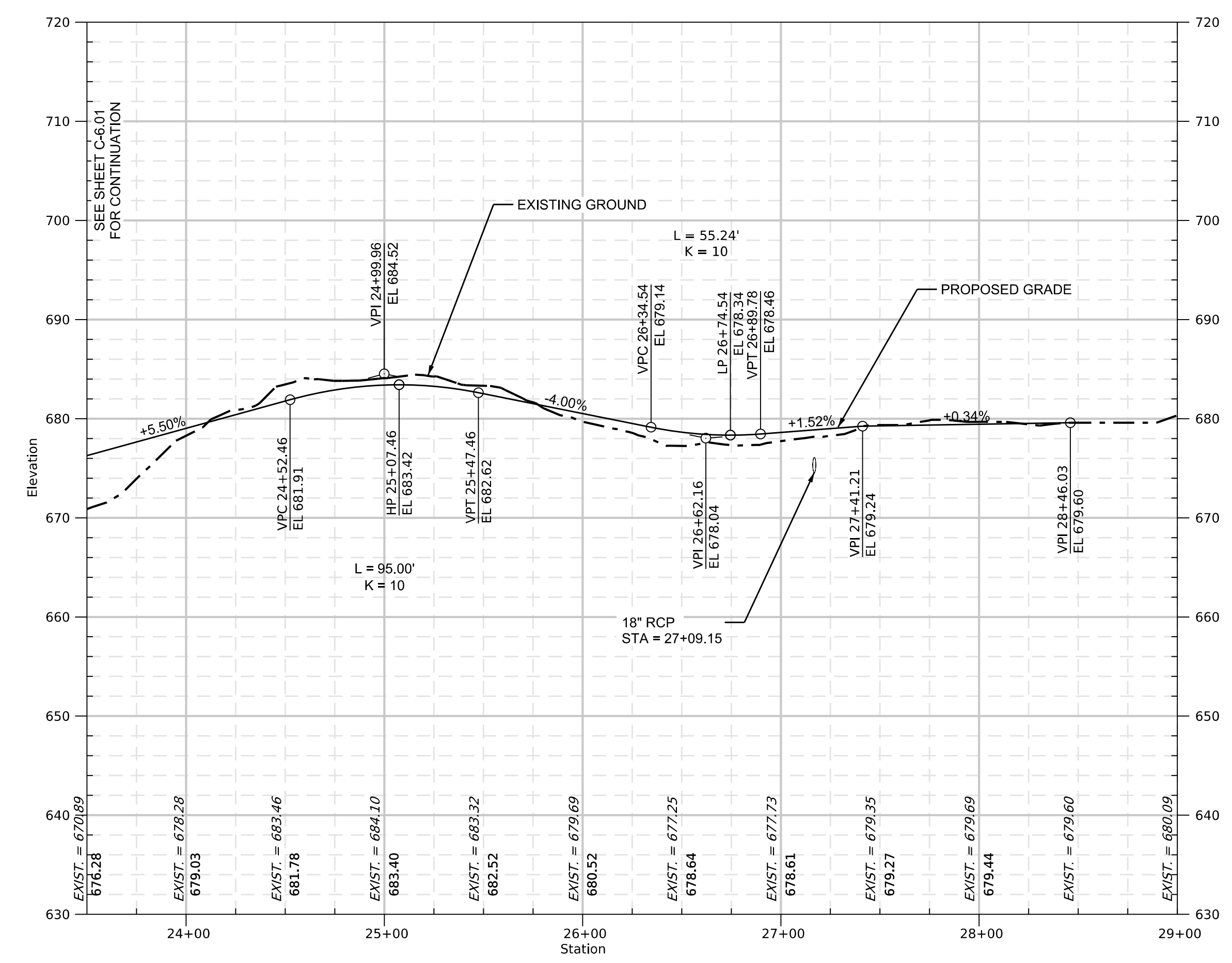


LEGEND

- PROPOSED RIGHT OF WAY
- - - EXISTING BOUNDARY LINES
- 690 PROPOSED MAJOR CONTOURS
- 690 PROPOSED MINOR CONTOURS
- 690 EXISTING MAJOR CONTOUR
- 690 EXISTING MINOR CONTOUR
- 3:1 SLOPE INDICATOR
- ◀ SINGLE WING INLET
- ◀◀ DOUBLE WING INLET
- STORM PIPE
- ▭ HEADWALL

NOTE:
1. REFERENCE PROJECT NOTES, TYPICAL SECTIONS, AND DETAILS SHEETS.

STA. 23+50 TO END



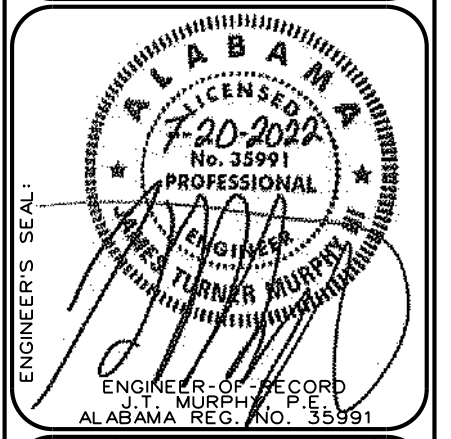
LEGEND
— PROPOSED GRADE
- - - EXISTING GROUND

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=50'



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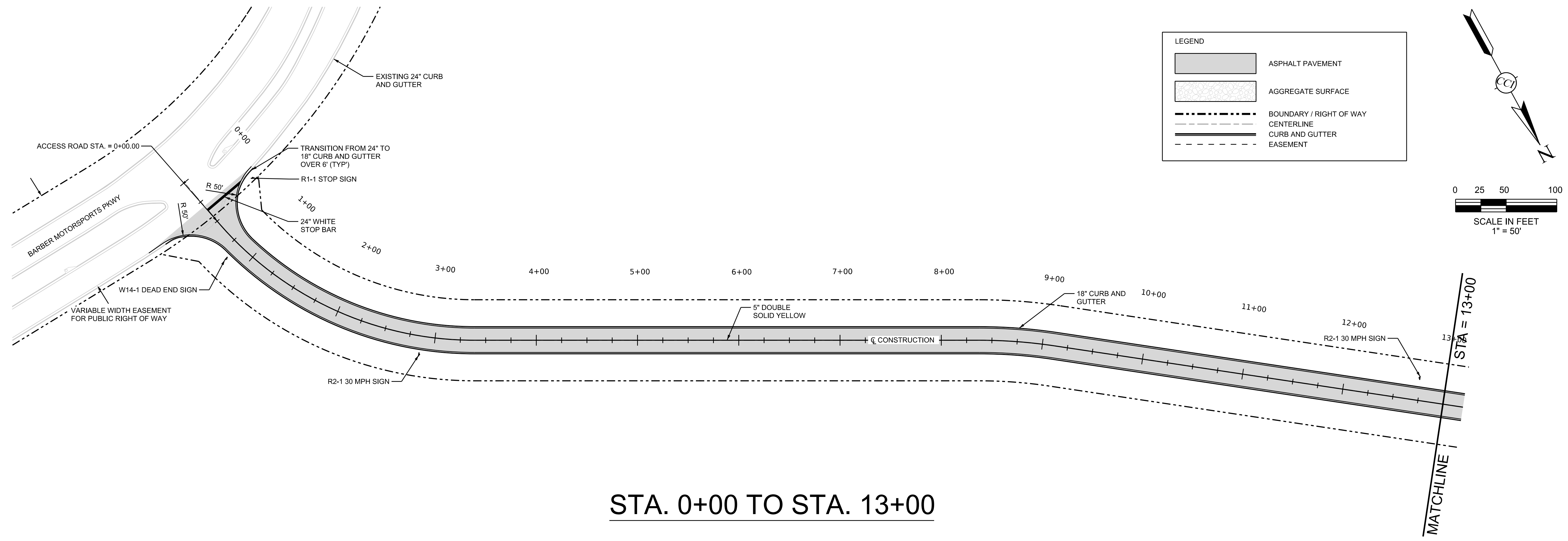
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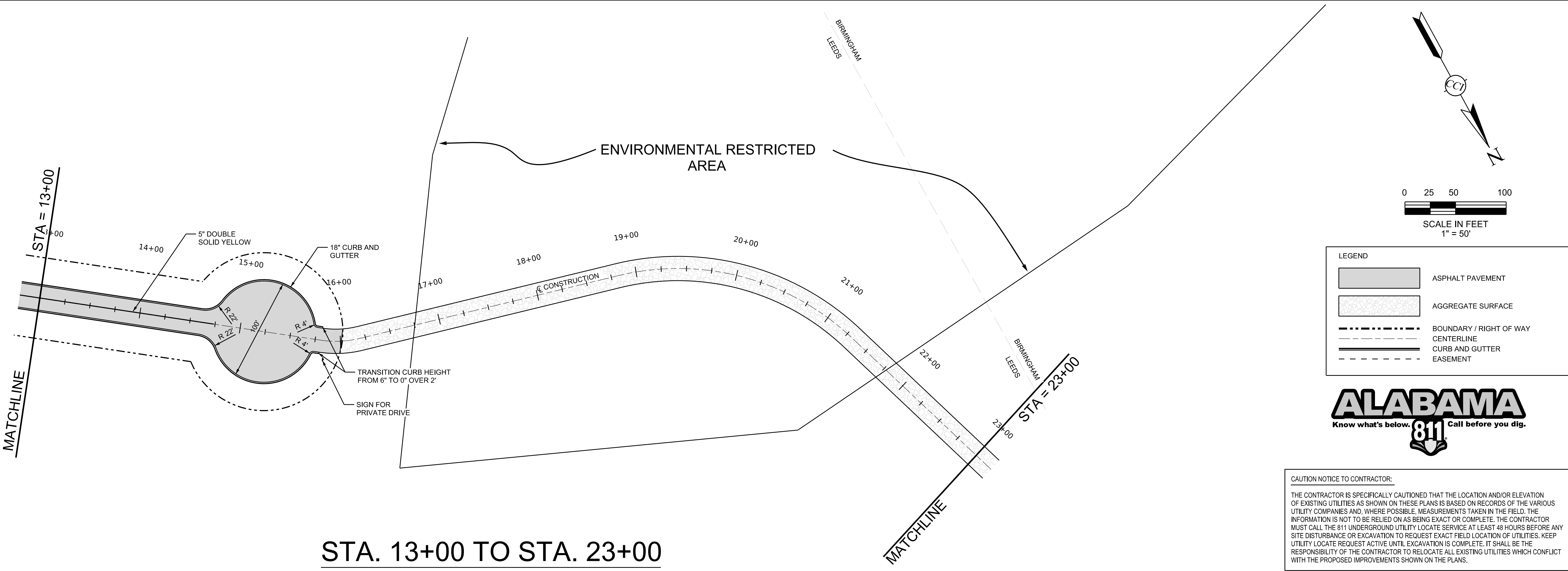
PLAN AND PROFILE (STA. 23+50 TO END)
THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION
PROJECT NO. USRE0005
DATE: 07/20/2022
SCALE: 1" = 50'

NO.	DESCRIPTION	BY	CHECKED BY	REV. DATE
0	ISSUE FOR PERMIT	BAG	JTM	07/20/2022

DRAWING NO. **C-6.02**



STA. 0+00 TO STA. 13+00



STA. 13+00 TO STA. 23+00

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& ENGINEERING

ALABAMA PROFESSIONAL ENGINEER
No. 3591
TURNER BROTHERS
ALABAMA REG. NO. 35991

ENGINEER'S SEAL

FILE: PAVING, SIGNAGE, AND STRIPING PLAN (STA. 0+00 TO STA. 23+00)

PROJECT: THE PARCEL 15 PROJECT LEEDS, ALABAMA FOR U.S. STEEL CORPORATION

DATE: 07/20/2022

BY: JTM

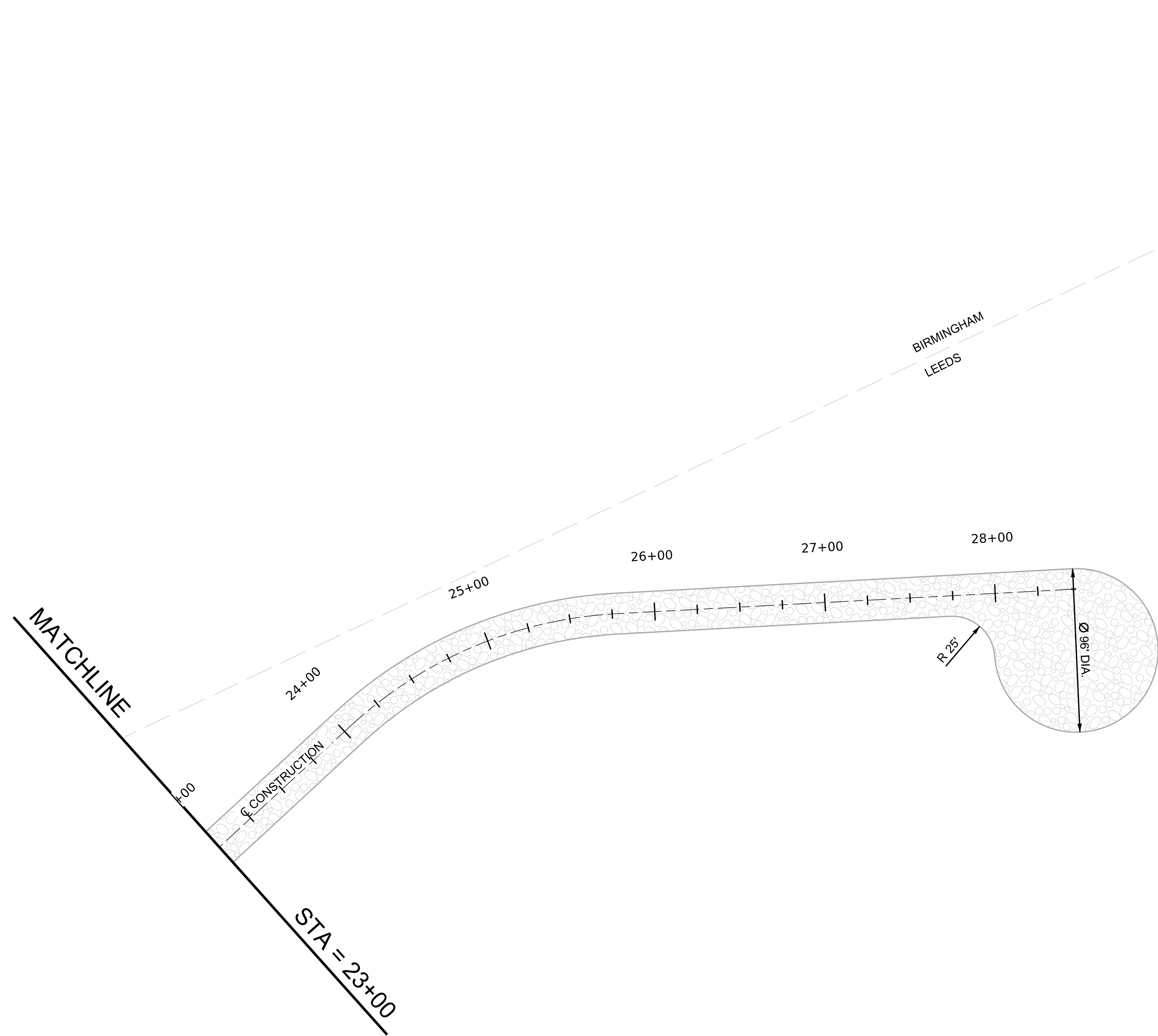
CHECKED BY: BAG

REVISIONS

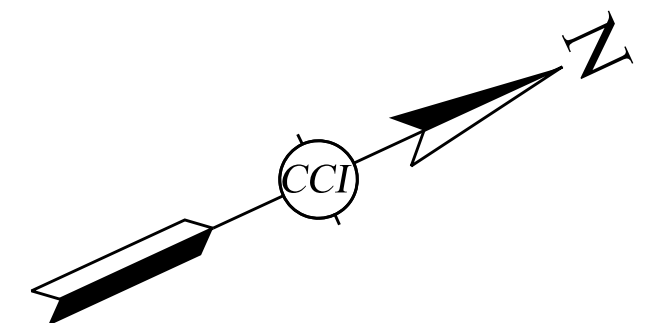
NO. 0

DESCRIPTION: ISSUE FOR PERMIT

DRAWING NO. C-7.00



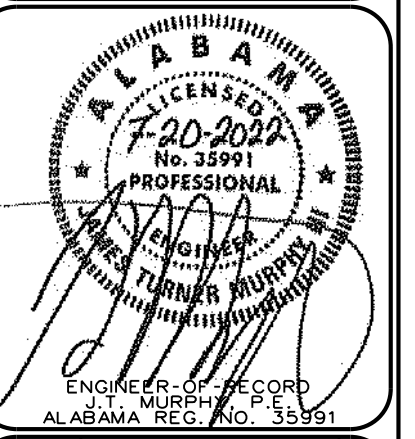
STA. 23+00 TO END



0 25 50 100
 SCALE IN FEET
 1" = 50'

LEGEND	
	ASPHALT PAVEMENT
	AGGREGATE SURFACE
	BOUNDARY / RIGHT OF WAY
	CENTERLINE
	CURB AND GUTTER
	EASEMENT

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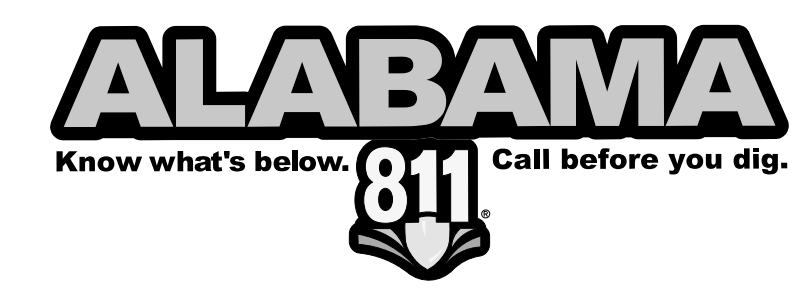
ENGINEER'S SEAL
 J. TURNER
 No. 35991
 ALABAMA
 PROFESSIONAL ENGINEER
 STATE OF ALABAMA
 REG. NO. 35991

NO.	DESCRIPTION	BY	CHECKED BY	REV.	DATE
0	ISSUE FOR PERMIT	BAG	JTM		07/20/2022

DRAWING NO.
C-7.01

FILE: PAVING, SIGNAGE, AND STRIPING PLAN (STA. 23+00 TO END)
 PROJECT: THE PARCEL 15 PROJECT FOR LEEDS, ALABAMA
 DRAWN BY: BAG
 CHECKED BY: JTM
 PROJECT NO: USRE0005
 DATE: 07/20/2022
 SCALE: 1" = 50'

CAUTION NOTICE TO CONTRACTOR:
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LEGEND

- W WATER MAIN
- FIRE HYDRANT ASSEMBLY
- GATE VALVE (LINE SIZE)
- SS SANITARY SEWER GRAVITY MAIN
- F.M. SANITARY SEWER FORCE MAIN
- SANITARY SEWER MANHOLE
- EXISTING OVERHEAD POWER
- EXISTING UTILITY POLE
- W EXISTING WATER MAIN
- EXISTING SANITARY SEWER MANHOLE
- SS EXISTING SANITARY SEWER GRAVITY MAIN
- - - SANITARY SEWER/UTILITY ACCESS EASEMENT

0 50 100 200
SCALE IN FEET
1" = 100'

3528 Vann Road
Suite 105
Birmingham, AL 35235
Phone: (205) 655-1991
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ENGINEER'S SEAL
ALABAMA
No. 3591
7-20-2022
PROFESSIONAL
ENGINEER
TURNER ARNOLD
ALABAMA REG. NO. 3591

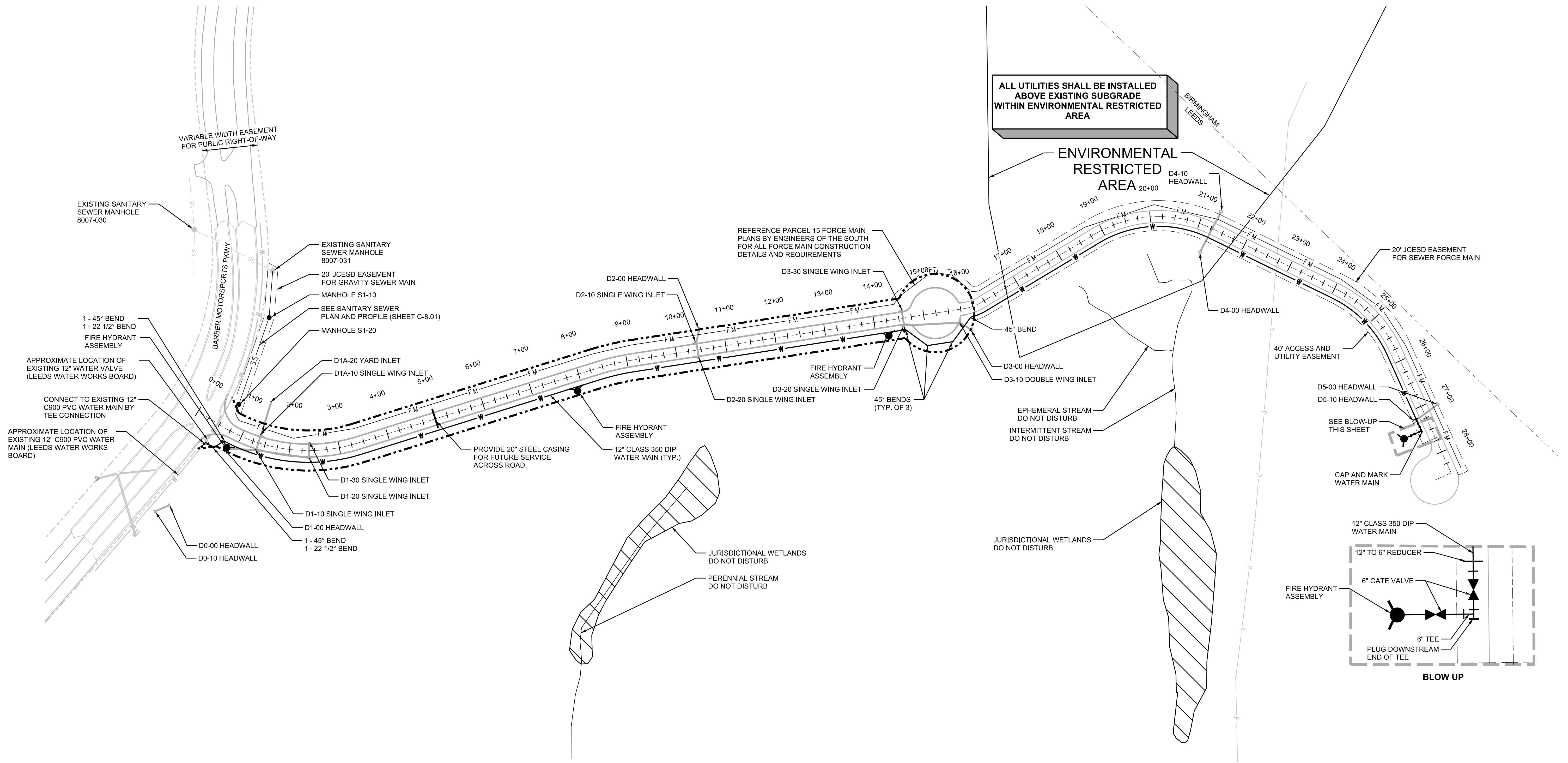
UTILITY PLAN

THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT NO. USRE0005
DATE: 07/20/2022
DRAWN BY: JTM
CHECKED BY: BAG
SCALE: 1" = 100'

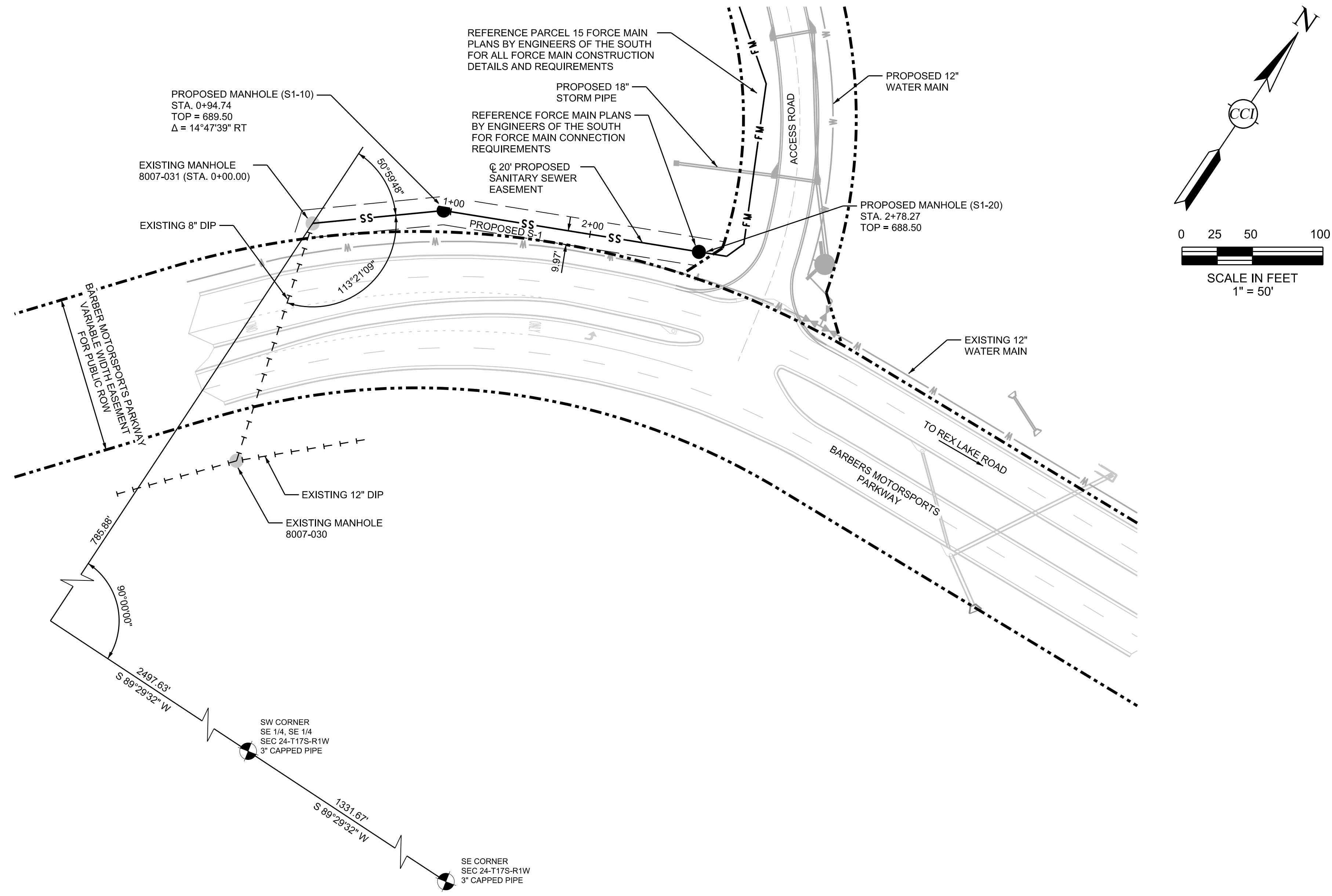
NO.	DESCRIPTION	BY	DATE
0	ISSUE FOR PERMIT	JTM	07/20/2022

DRAWING NO. **C-8.00**



CAUTION NOTICE TO CONTRACTOR:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE 811 UNDERGROUND UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. KEEP UTILITY LOCATE REQUEST ACTIVE UNTIL EXCAVATION IS COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



**JEFFERSON COUNTY STANDARD NOTES
FOR 8 INCH AND LARGER SANITARY SEWERS**

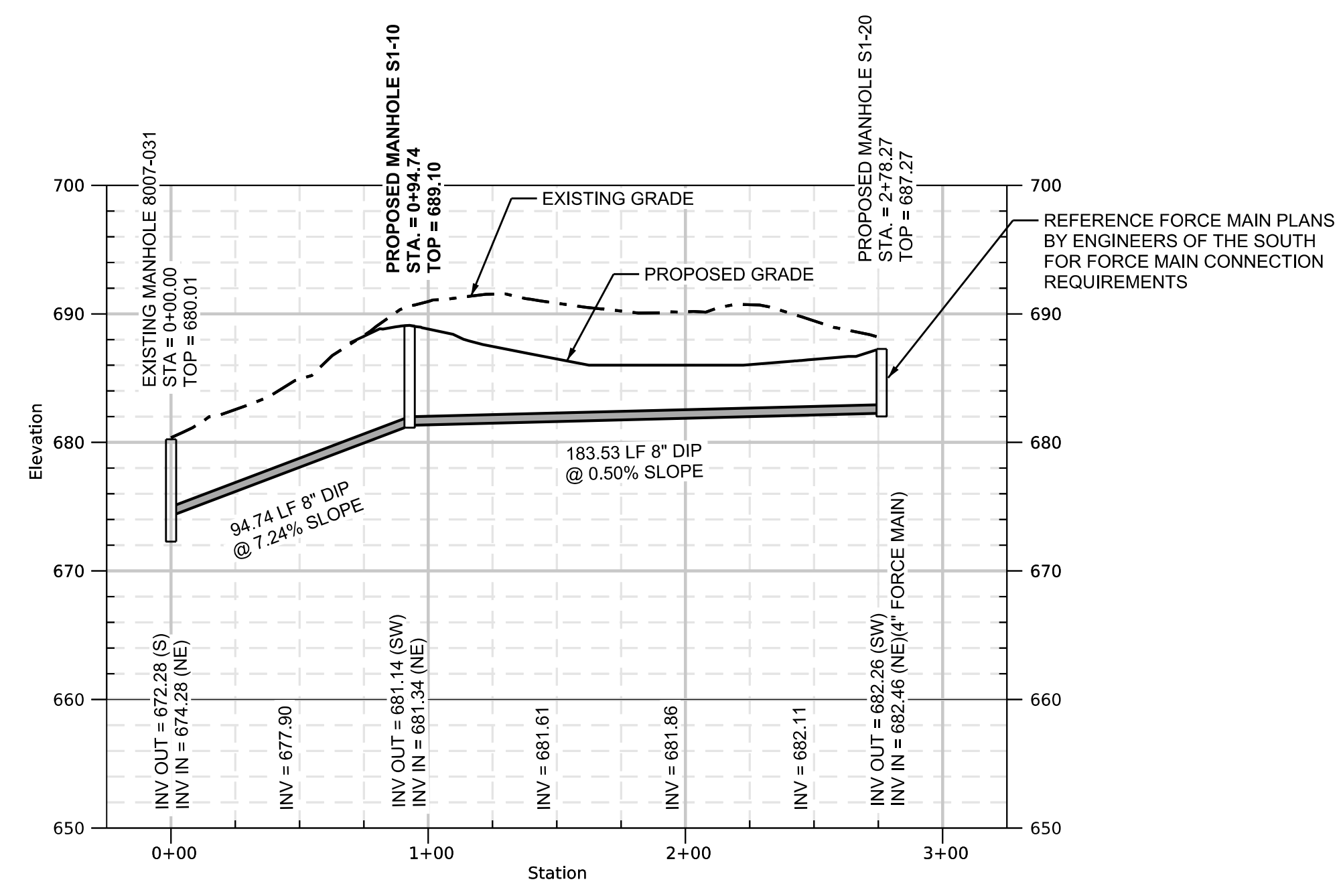
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATION OF JEFFERSON COUNTY, THE LOCAL MUNICIPALITY AND/OR THE STATE HIGHWAY DEPARTMENT, AND APPLICABLE O.S.H.A. REGULATIONS, AS APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE JEFFERSON COUNTY ENVIRONMENTAL SERVICES DEPARTMENT 325-5127 AT LEAST 24 HOURS PRIOR TO BEGINNING CONSTRUCTION. THERE SHALL BE NO CHANGES IN DRAWINGS WITHOUT WRITTEN APPROVAL BY THE JEFFERSON COUNTY ENVIRONMENTAL SERVICES DEPARTMENT.
- DUCTILE IRON PIPE SHALL BE CLASS 350 OR BETTER.
- PVC PIPE SHALL BE AWWA C900, CAST IRON (CI) STANDARD DIMENSIONS, DIMENSION RATIO (DR) 18, PRESSURE CLASS (PC) 150 PSI OR BETTER.
- IN EARTH TRENCH, FOUR INCHES OF CRUSHED STONE SHALL BE PLACED UNDER SEWER LINES OF 12 INCHES IN DIAMETER OF SMALLER AND SIX INCHES OF CRUSHED STONE SHALL BE PLACED UNDER SEWER LINES LARGER THAN 12 INCHES IN DIAMETER. IN ROCK TRENCHES, SIX INCHES OF CRUSHED STONE SHALL BE PLACED UNDER ALL SEWERS. THE DITCH SHALL BE BACKFILLED WITH CRUSHED STONE TO A DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE. WHEN CROSSING EXISTING ROADS AND STREETS, THE TOTAL BACKFILL SHALL BE CRUSHED STONE AND PROPERLY CHOKED.
- AT THE DIRECTION OF THE ESD INSPECTOR, A CONNECTION OF SANITARY SEWER PIPES (8 INCH THROUGH 16 INCH) OF DISSIMILAR SIZES OR FOR REPAIR OF SANITARY SEWER PIPES OF SIMILAR MATERIALS MAY BE MADE BY MEANS OF AN APPROVED MECHANICAL SEAL TYPE ADJUSTABLE COUPLING. COUPLINGS WITH ANY REQUIRED ADAPTING BUSHINGS SHALL BE MANUFACTURED OF AN APPROVED PREFORMED ELASTOMERIC MATERIAL SPECIFICALLY FOR DIMENSIONS OF THE PIPE MATERIALS TO BE CONNECTED. COUPLINGS OF THE MECHANICAL SEAL TYPE SHALL HAVE NUT AND BOLT TIGHTENING CLAMPS OR DEVICES MADE OF 316 STAINLESS STEEL, WITH AN ADJUSTABLE STAINLESS STEEL SHEAR RING, AND STAINLESS STEEL HARDWARE. A CONCRETE COLLAR AS SHOWN AN APPENDIX STANDARD DRAWING SD2060 IS REQUIRED. THE ADJUSTABLE COUPLING SHALL BE INSTALLED AS RECOMMENDED AND SPECIFIED BY THE MANUFACTURER. EACH COUPLING SHALL BEAR THE MANUFACTURER'S NAME AND REQUIRED MARKINGS.
- MANHOLES SHALL MEET ASTM SPECIFICATION C-478. JOINTS BETWEEN THE MANHOLE SECTIONS SHALL BE OFFSET TONGUE AND GROVE "PUSH ON" TYPE, SUPPLIED WITH TYLOX SUPER SEAL PRE-LUBRICATED GASKET AS MANUFACTURED BY HAMILTON KENT MEETING THE REQUIREMENTS OF ASTM C443. EACH JOINT SHALL ALSO BE SUPPLIED WITH CONSEAL CS-231 WATERSTOP SEALANT AS MANUFACTURED BY CONCRETE SEALANTS, IN WIDTHS AS RECOMMENDED BY THE MANUFACTURER. MANHOLES SHALL HAVE A MINIMUM DIAMETER OF 48 INCHES AND A MINIMUM THICKNESS OF 5 INCHES. ALL MANHOLE CONES SHALL BE OF THE CONCENTRIC TYPE. MANHOLES MAY BE FINISHED TO STREET GRADE WITH BRICK AND MORTAR. THIS ADJUSTMENT HEIGHT SHALL NOT EXCEED 16 INCHES.
- STUBOUTS FOR SANITARY SEWER SERVICE LINES SHALL END ON OR NEAR THE PROPERTY LINE UNLESS OTHERWISE NOTED. ON "DOWNHILL" SIDE LOTS INSTALL LATERALS ON A MINIMUM 1% GRADE. ON "UPHILL" SIDE LOTS, INSTALL SERVICE LINES TO GRADE THAT WILL TERMINATE A MAXIMUM DEPTH OF 10 FEET. THE FIRST JOINT OUT OF A MANHOLE FOR BUILDING OR HOUSE SERVICE SHALL BE DUCTILE IRON PIPE CLASS 350 OR BETTER (MINIMUM 8 FEET). ANY BUILDING SERVICE LINE SET OUTSIDE OF EASEMENT OR R.O.W. MUST BE INSTALLED BY A MASTER PLUMBER AND HAVE A SEWER CONNECTION PERMIT FOR EACH LOT.
- IF THE CONTRACTOR IS INSTALLING SERVICE LINES AT THE SAME TIME AS MAIN LINE, THE SERVICE LINE SHALL BE INSTALLED IN ACCORDANCE WITH JEFFERSON COUNTY STANDARDS FOR CONSTRUCTION OF SERVICE LINES AND CONNECTIONS, AND INSPECTED/TESTED BY COUNTY INSPECTOR BEFORE IT IS BACKFILLED.
- ALL SERVICE LINE STUBOUTS INSTALLED IN ROAD ROW OR UNDER ASPHALT SHALL BE PER STANDARD SPECIFICATIONS FOR SANITARY SEWER SERVICE LINES AND CONNECTIONS SECTION 4.
- CONSTRUCTION SIGNS FOR WORK WITHIN AND ADJACENT TO PUBLIC ROADS, HIGHWAYS, AND ALLEYS SHALL BE IN ACCORDANCE WITH ALDOT STANDARDS.
- CONTRACTOR WILL BE RESPONSIBLE FOR THE CONTINUOUS AND PROPER OPERATION OF ALL EXISTING UTILITIES LOCATED ON OR ADJACENT TO THE PROJECT SITE AND WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT.
- ALL EMBANKMENT FILL AREAS SHALL BE FILLED AND COMPACTED PRIOR TO EXCAVATION OF SEWER LINE TRENCHES.
- CONTRACTOR WILL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS FOR ACQUISITION OF ALL PERMITS DURING CONSTRUCTION TO INSURE THAT DAMAGE DOES NOT OCCUR TO ADJACENT PROPERTIES, PUBLIC ROADS AND/OR DITCHES (CREEKS, STREAMS).
- UPON COMPLETION OF ALL OR ANY PART OF A SANITARY SEWER LINE, THE CONTRACTOR WILL BE REQUIRED TO TEST SAID SEWER FOR ACCEPTABILITY. GRAVITY SEWERS WILL BE PRESSURE TESTED WITH AIR. FORCE MAIN SEWERS WILL BE PRESSURE TESTED WITH WATER. MANHOLES WILL BE VACUUM TESTED. ALL TEST WILL BE CONDUCTED IN THE PRESENCE OF THE COUNTY SEWER CONSTRUCTION INSPECTOR IN ACCORDANCE WITH SECTION 5.00 STANDARDS FOR COMMERCIAL AND RESIDENTIAL CONSTRUCTION OF SANITARY SEWER SYSTEMS. GRAVITY SANITARY SEWERS WILL BE TELEVISION INSPECTED FOLLOWING AIR TESTING WITH THE FINAL VIDEO TAPE AND LOG FURNISHED TO THE COUNTY FOR RECORD INFORMATION.

SURVEYOR INFORMATION:
ARRINGTON ENGINEERING & LAND SURVEYING, INC.
CONTACT: DAVE ARRINGTON
2032 VALLEYDALE ROAD, SUITE C
HOOVER, AL 35244
PHONE: (205) 985-9315

CIVIL ENGINEER INFORMATION:
CIVIL CONSULTANTS, INC.
CONTACT: J.T. MURPHY, P.E.
ALABAMA REG.# 35991
3528 VANN ROAD, SUITE 105
BIRMINGHAM, AL 35235
PHONE: (205) 655-1991

OWNER / DEVELOPER INFORMATION:
U.S. STEEL CORPORATION
CONTACT: JAMME LOWDEN
610 PRESERVE PARKWAY
HOOVER, AL 35226
PHONE: (205) 588-2814

SITUATED IN THE SW 1/4
OF SECTION 24, T17S, R1W



S-1
VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=50'

LEGEND

	PROPOSED GRADE
	EXISTING GRADE



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SANITARY SEWER PLAN AND PROFILE (S-1)

THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT NO: USRE0005
DATE: 07/20/2022
DRAWN BY: AJK
CHECKED BY: JTM
SCALE: 1" = 50'

NO.	DESCRIPTION	BY	CHECKED BY	REV.	DATE
0	ISSUE FOR PERMIT	BAG	JTM		07/20/2022

DRAWING NO.
C-8.01

C-900 PVC PIPE
N.T.S.

ALL OTHER PIPE
N.T.S.

NOTES:

- Only acceptable granular material will be considered for Select Earth Material. Material must be compacted to 95% Standard Proctor Density and the results of the Standard Proctor Density test and the compaction test shall be submitted to the Engineer.
- For Bedding under Paved Surfaces see Std. Dwg. No. SD2030.
- All pipe shall have a minimum depth of 4" pipe bedding in a soil trench, and a minimum depth of 6" pipe bedding in a rock trench.

APPROVED:	JEFFERSON COUNTY ALABAMA ENVIRONMENTAL SERVICES DEPARTMENT
NOV. 1999	PIPE BEDDING AND BACKFILL DETAILS UNIMPROVED SURFACES
APPROVED:	STANDARD DRAWING NO. SD2010 RCC

MANHOLE STEP DETAILS
N.T.S.

NOTES:

- Manhole and inlet steps shall be plastic coated reinforced steel. Plastic coated manhole steps shall be polypropylene coated steel reinforcing rods with rod and pull out ratings meeting OSHA standards.
- For larger diameter manholes (deeper than 22') a coped aluminum ladder shall be used.
- Manhole and inlet steps shall be installed at maximum 16" intervals.

APPROVED:	JEFFERSON COUNTY ALABAMA ENVIRONMENTAL SERVICES DEPARTMENT
NOV. 1999	MANHOLE STEP DETAILS
APPROVED:	STANDARD DRAWING NO. SD1580

MANHOLE BASE PLAN
N.T.S.

A-A SECTION
N.T.S.

NOTES:

- If inverts of the influent and effluent sewer pipes exceed 2 Ft. of difference, a Memphis Tee manhole must be constructed in accordance with Drawing No. SD1560.

APPROVED:	JEFFERSON COUNTY ALABAMA ENVIRONMENTAL SERVICES DEPARTMENT
NOV. 1999	CONNECTIONS 8" AND LARGER, TO EXISTING MANHOLES
APPROVED:	STANDARD DRAWING NO. SD2046

PRECAST TERMINAL MANHOLE
N.T.S.

MANHOLE BASE PLAN
N.T.S.

SECTION
N.T.S.

NOTES:

- Refer to base section on SD1500.

APPROVED:	JEFFERSON COUNTY ALABAMA ENVIRONMENTAL SERVICES DEPARTMENT
NOV. 1999	PRECAST TERMINAL MANHOLE
APPROVED:	STANDARD DRAWING NO. SD1510

PRECAST MANHOLE JOINT
N.T.S.

MANHOLE JOINT STRAP DETAIL
N.T.S.

PRECAST MANHOLE JOINT DETAILS
N.T.S.

CONSEAL CS-231 REQ'D SIZE CHART

Diag.	ØA	ØB	C	D	E	ØF	G	H	I	J	K
48	53.121	52.966	0.125	4.125	1.600	52.217	0.146	0.452	4.250	2.033	2"
60	67.512	67.315	0.160	5.24	2.68	66.450	0.150	0.500	5.394	3.268	1.8"
72	79.362	79.105	0.160	5.24	2.68	78.233	0.150	0.500	5.400	3.400	1.8"

NOTES:

- MANHOLE SECTION ANCHOR ASSEMBLIES SHALL BE INSTALLED BETWEEN ALL PRECAST RISER SECTIONS AT EVERY MANHOLE WHERE BOLT DOWN MANHOLE IS SPECIFIED.

APPROVED:	JEFFERSON COUNTY ALABAMA ENVIRONMENTAL SERVICES DEPARTMENT
NOV. 1999	PRECAST MANHOLE JOINT DETAILS
APPROVED:	STANDARD DRAWING NO. SD1515

BOLT DOWN MANHOLE FRAME & COVER DETAILS
N.T.S.

SECTION E-E
TYPICAL MANHOLE SECTION ANCHOR

ESTIMATED WEIGHTS

FRAME	200 LBS.
COVER	105 LBS.

NOTES:

- Manhole Section Anchor Assemblies Shall be Installed Between All Precast Riser Sections at every Manhole Bolt down frame and cover Are Specified.

APPROVED:	JEFFERSON COUNTY ALABAMA ENVIRONMENTAL SERVICES DEPARTMENT
NOV. 1999	BOLT DOWN MANHOLE FRAME & COVER DETAILS
APPROVED:	STANDARD DRAWING NO. SD1575

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ENGINEER OF RECORD
ALABAMA REG. NO. 35991

SANITARY SEWER SECTIONS AND DETAILS

THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT USRE0005
DATE: 07/20/2022
DRAWN BY: AJK
CHECKED BY: JTM
SCALE: N.T.S.

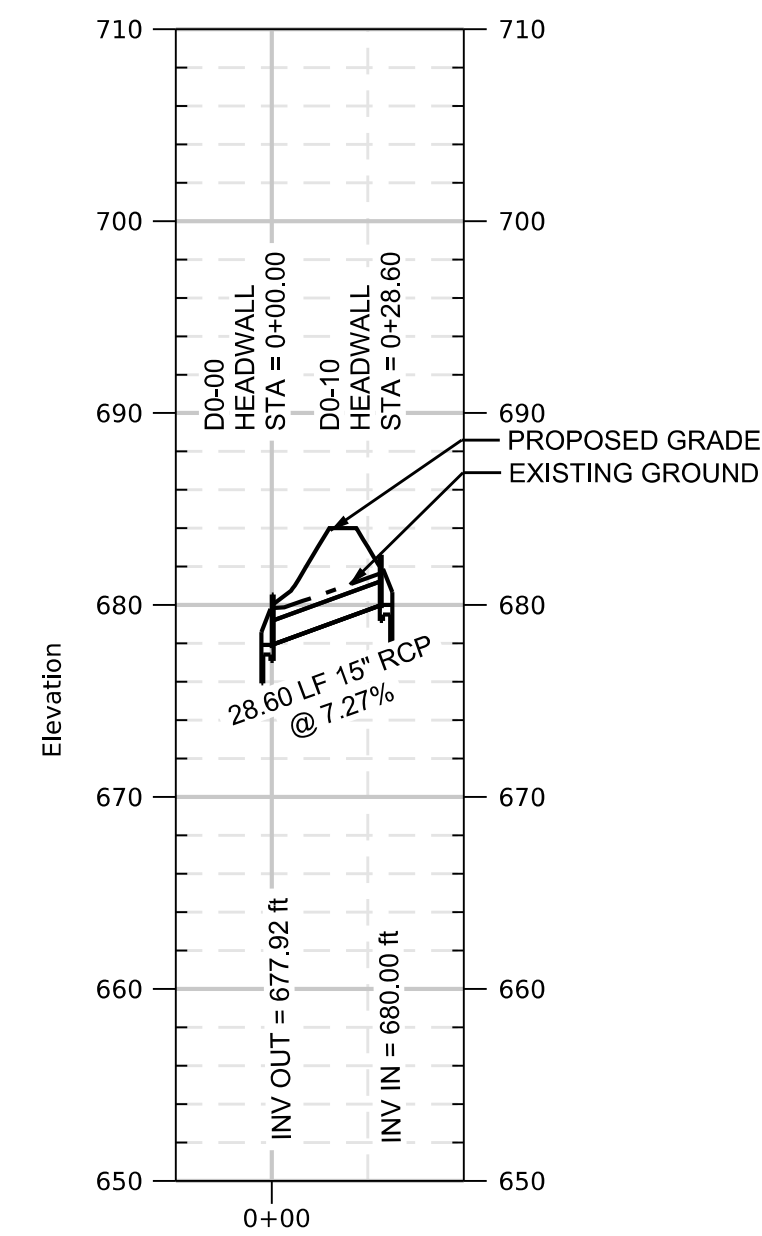
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0	ISSUE FOR PERMIT	JTM	07/20/2022

DRAWING NO. **C-8.02**



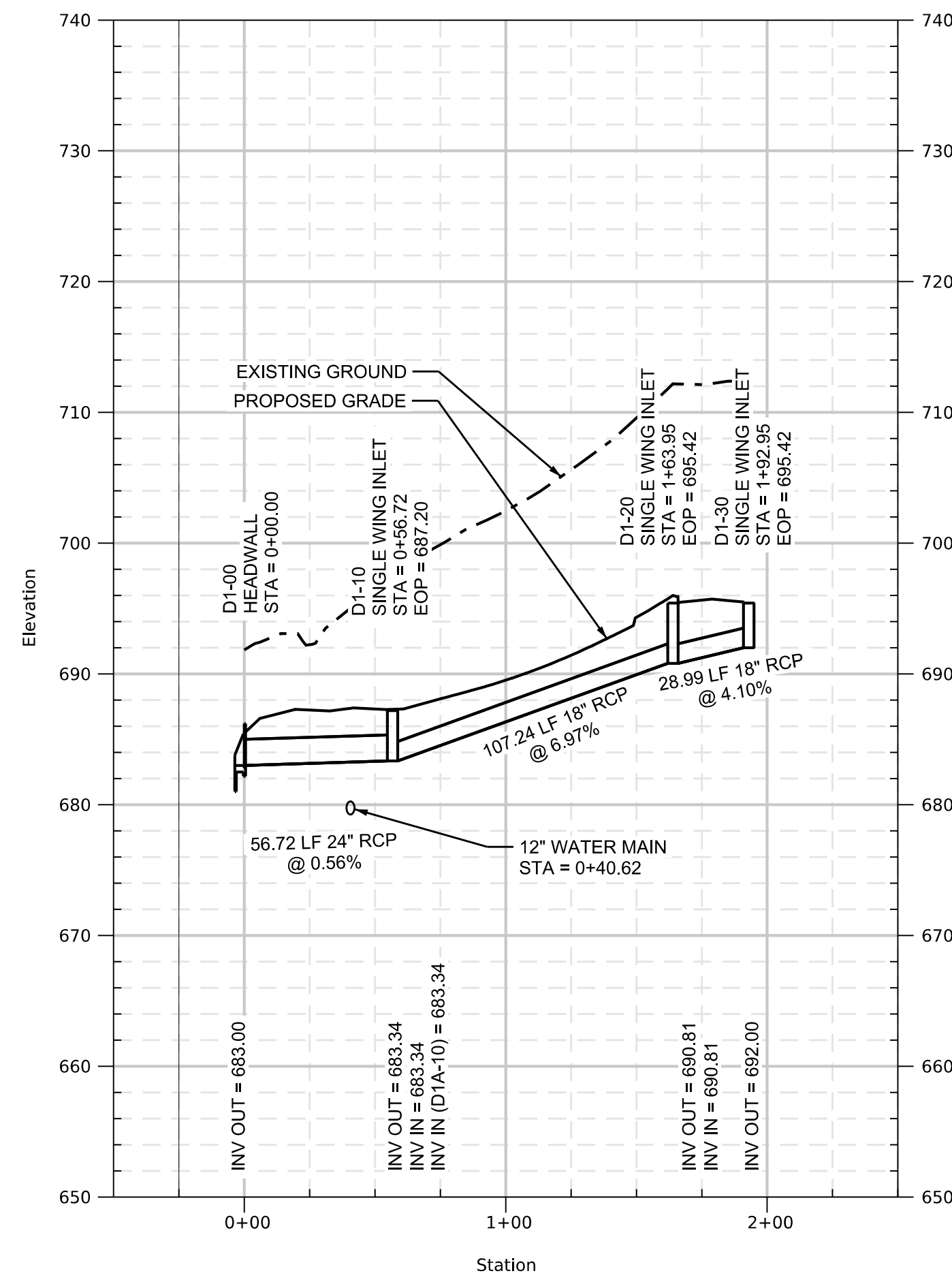
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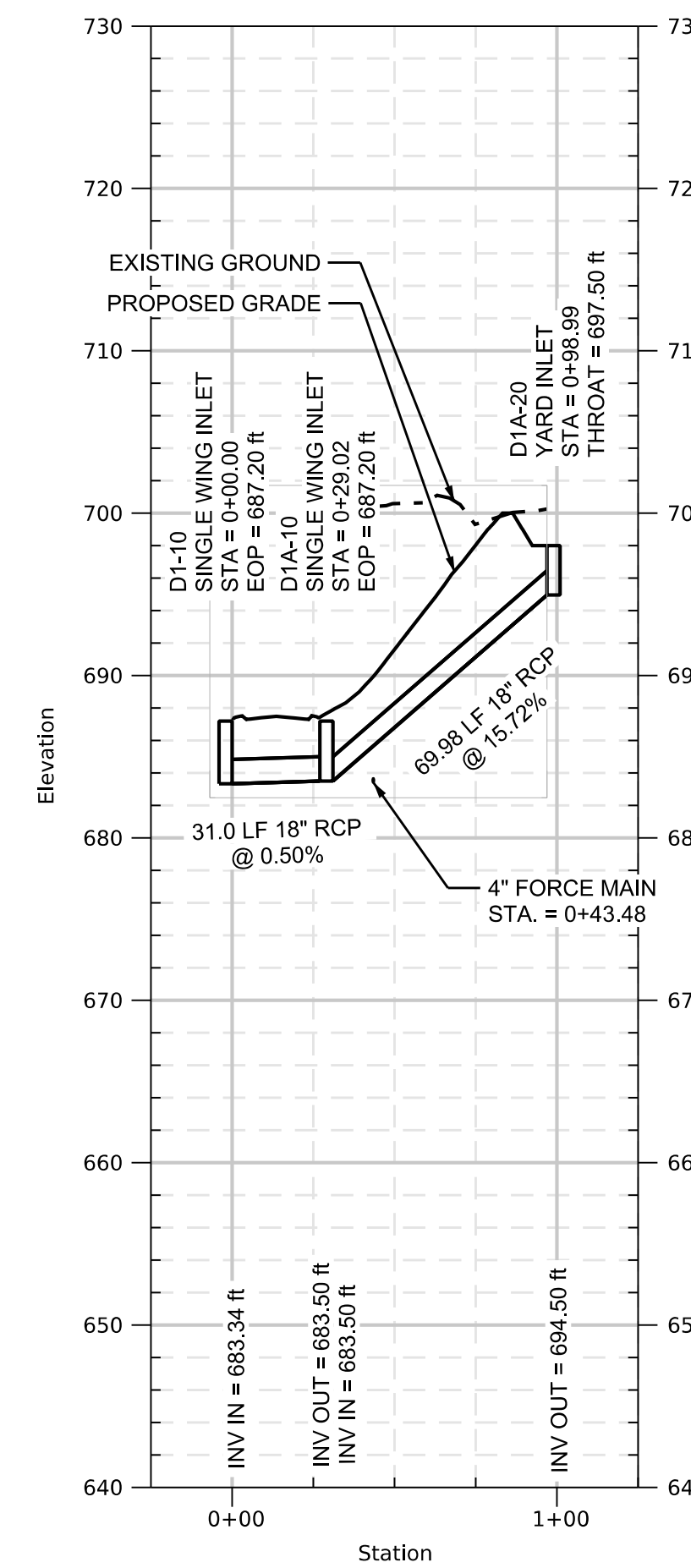
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HORIZONTAL SCALE: 1"=50'

LINE D-0



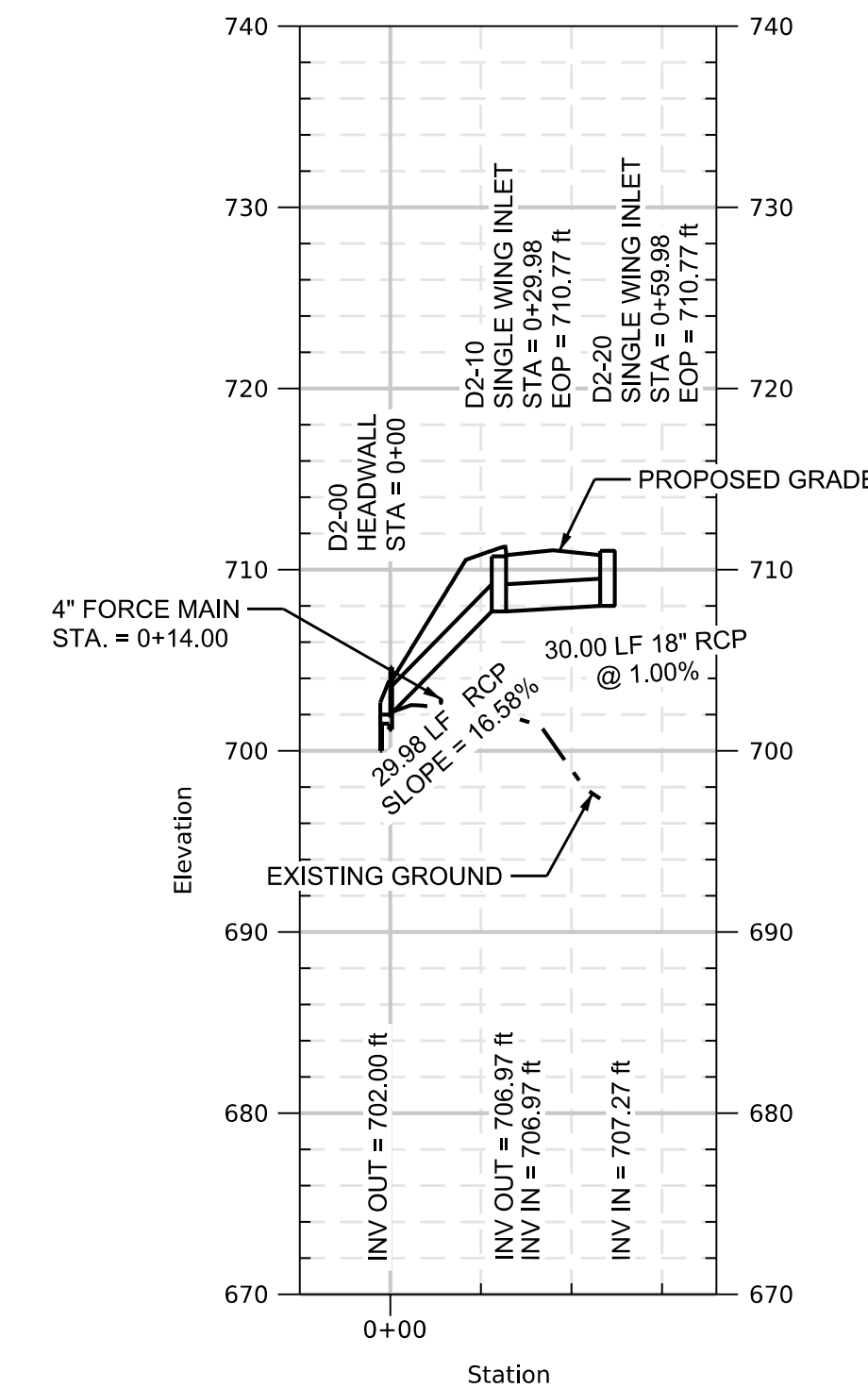
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HORIZONTAL SCALE: 1"=50'

LINE D-1



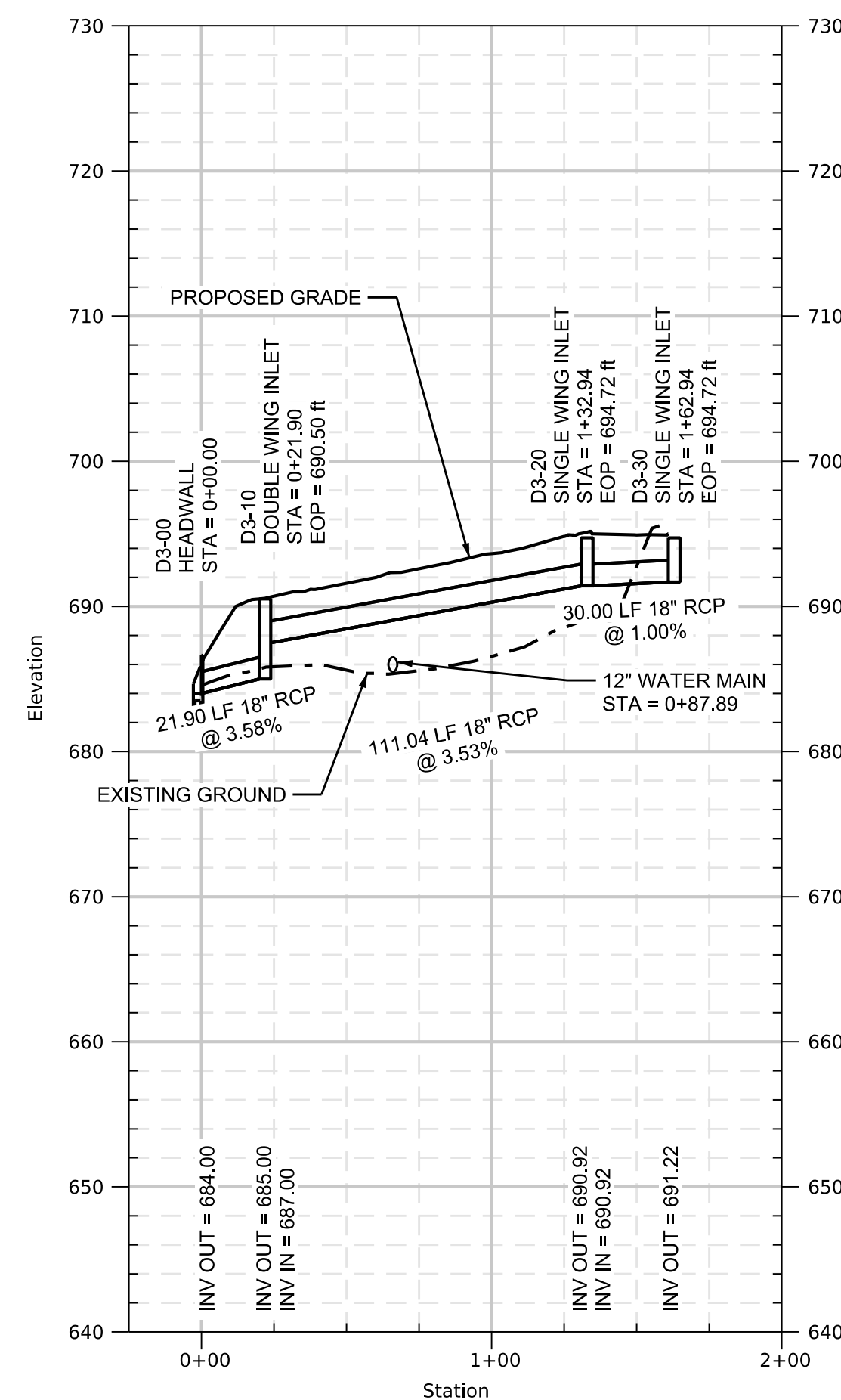
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HORIZONTAL SCALE: 1"=50'

LINE D-1A



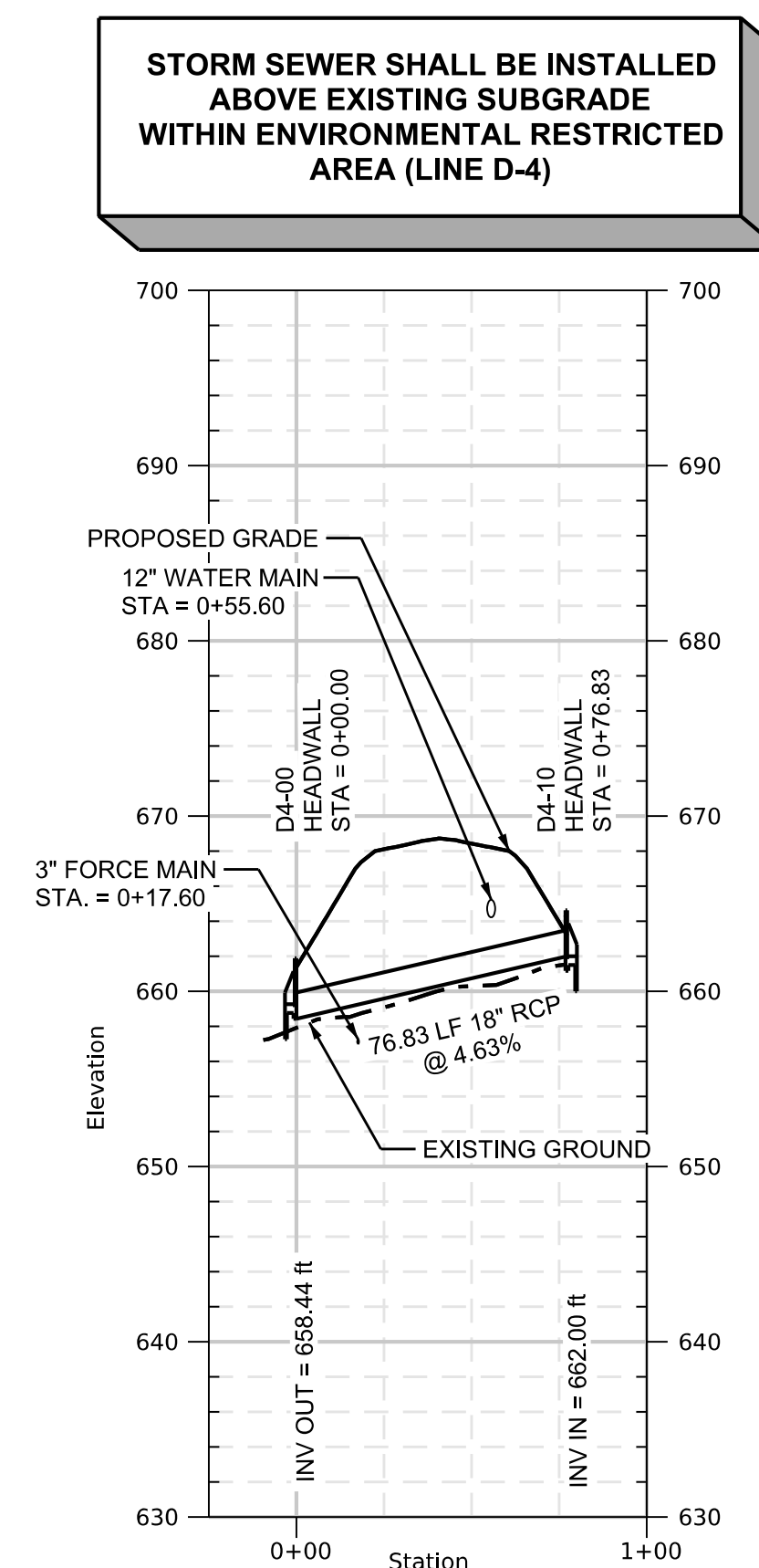
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HORIZONTAL SCALE: 1"=50'

LINE D-2



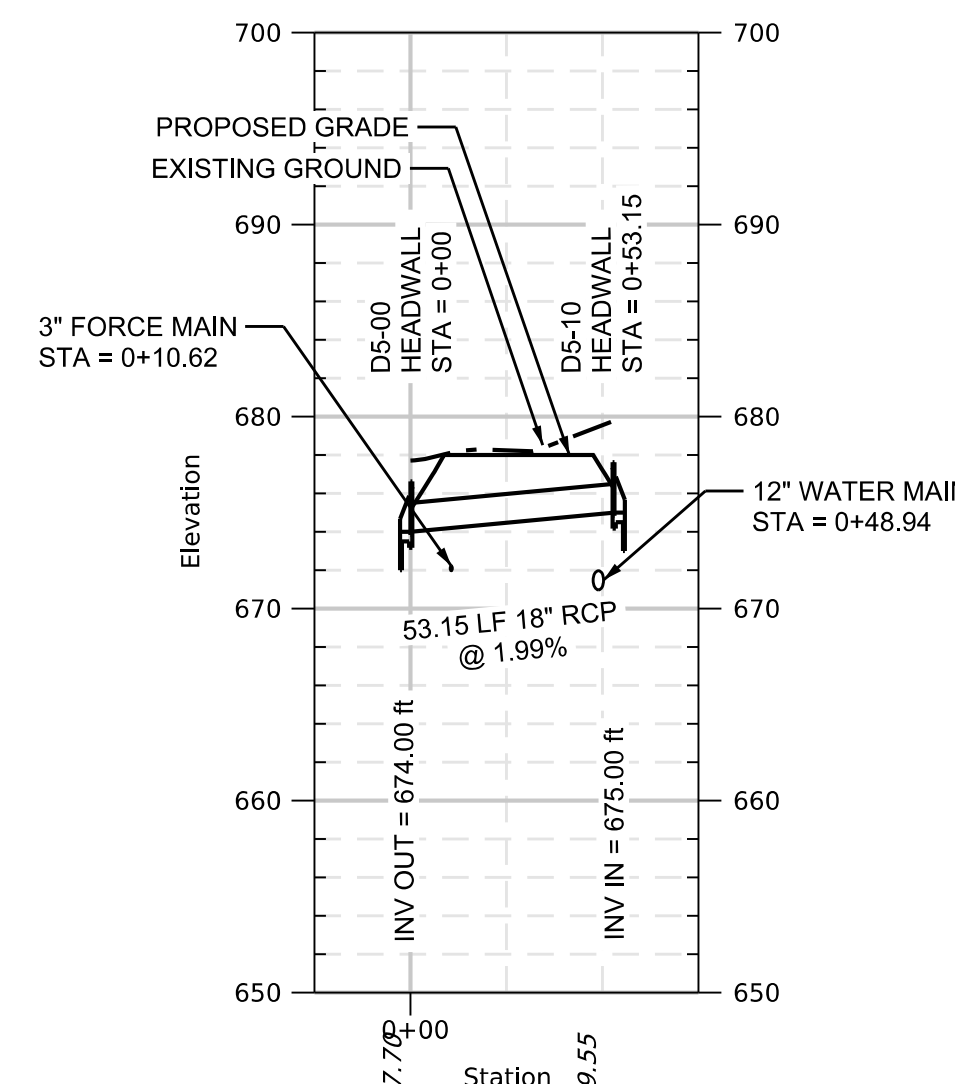
VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=50'

LINE D-3



VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=50'

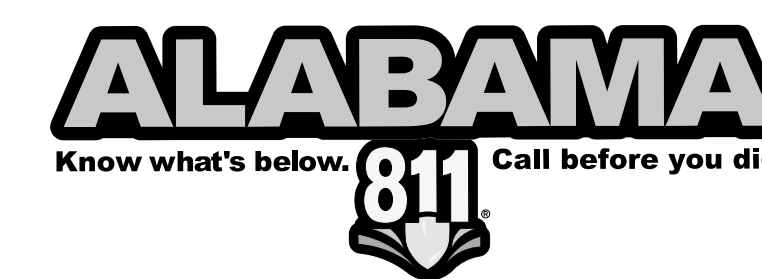
LINE D-4



VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=50'

LINE D-5

STORM SEWER SHALL BE INSTALLED ABOVE EXISTING SUBGRADE WITHIN ENVIRONMENTAL RESTRICTED AREA (LINE D-4)



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ALABAMA
Professional Engineer
No. 3591
Turner Andrew
Alabama Rec. No. 35991

STORM PROFILES
THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT NO: USRE0005
DATE: 07/20/2022
DRAWN BY: BAG
CHECKED BY: JTM
SCALE: 1" = 50'

NO.	DESCRIPTION	REVISIONS	BY	CHKD BY	REV. DATE
0	ISSUE FOR PERMIT		BAG	JTM	07/20/2022

DRAWING NO. **C-9.00**

EROSION & SEDIMENT CONTROL NOTES:

- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) LARGE CONSTRUCTION STORM WATER NPDES PERMIT, INCLUDING, BUT NOT LIMITED TO INSTALLATION OF BMP'S, MONITORING OF BMP PERFORMANCE, REPORT PREPARATION, REPORT FILING, AND PERMIT RENEWAL OR TERMINATION. CONTRACTOR SHALL SUBMIT MONITORING REPORTS TO OWNER AND SITE ENGINEER WITHIN 72 HOURS OF THE MONITORING EVENT.
- PRIME CONTRACTOR SHALL OBTAIN NPDES PERMIT FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES PRIOR TO BEGINNING CONSTRUCTION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENT CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT OR SEDIMENT FROM LEAVING THE SITE. SILT OR SEDIMENT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS. THE CONTRACTOR SHALL PREVENT THE ESCAPE OF SILT OR SEDIMENT FROM THE SITE BY INSTALLING EROSION CONTROL MEASURES IN ADDITION TO THOSE SHOWN ON PLANS AS NECESSARY AND CONDUCTING PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY TO PREVENT SILT OR SEDIMENT FROM ESCAPING THE SITE AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL AND PERFORM NECESSARY REPAIRS AND MAINTENANCE. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION AND SEDIMENT CONTROL DEVICES WHICH BECOME INEFFECTIVE. NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL EROSION CONTROL DEVICES OR MEASURES AS DEEMED NECESSARY BY THE ENGINEER, OWNER OR REGULATORY AUTHORITIES TO COMPLY WITH CONSTRUCTION DOCUMENTS OR GOVERNING AUTHORITY.
- CONTRACTOR SHALL REMOVE THE BUILD UP OF SILT AND SEDIMENT FROM BEHIND SILT FENCE, ROCK CHECK DAMS AND INLET FILTERS WHEN SILT AND SEDIMENT HAS REACHED 1/3 THE TOTAL HEIGHT OF THE EROSION AND SEDIMENT CONTROL DEVICE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS AND PERMITS.
- ALL EROSION CONTROL MEASURES SHALL MEET THE GUIDELINES SET FORTH IN THE "ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, VOLUME 1", PUBLISHED BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, PUBLISHED 2018.
- CONTRACTOR SHALL INSTALL, MAINTAIN AND INSPECT ALL EROSION AND SEDIMENT DEVICES AND MEASURES IN ACCORDANCE WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS VOLUME 1", PUBLISHED BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, PUBLISHED 2018.
- THE LIMITS OF DISTURBANCE SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE. ANY DAMAGE OUTSIDE THE LIMITS OF CONSTRUCTION CAUSED BY THE CONTRACTOR OR CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED TO ITS ORIGINAL CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE AS REQUIRED BY THE ENGINEER, PLANS, AND CITY OF ENTERPRISE REPRESENTATIVE. SILTATION CONTROL MEASURE SHALL BE INSPECTED PER THE NPDES PERMIT REQUIREMENTS. ANY DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY AND NO FURTHER WORK WILL PROCEED UNTIL SAID DEFICIENCIES ARE CORRECTED TO THE CITY OF ENTERPRISE OR ENGINEER'S APPROVAL.

INITIAL EROSION CONTROL SEQUENCE:

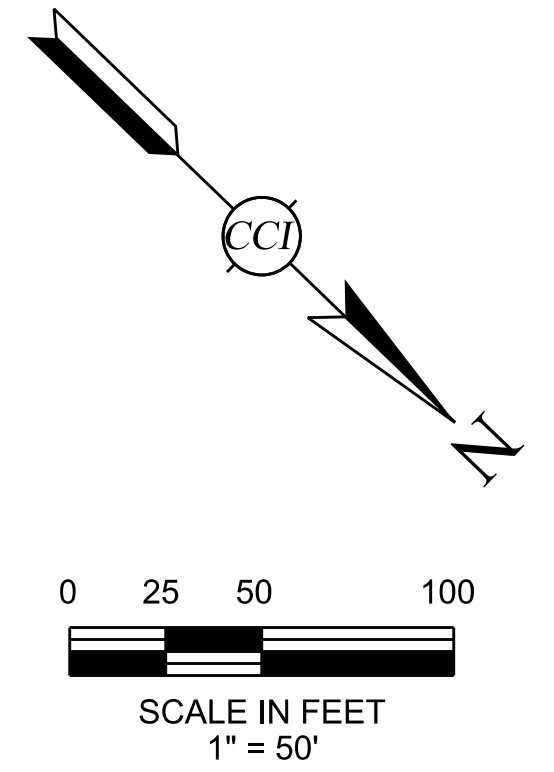
- INSTALL PERIMETER SEDIMENT BARRIER AND CONSTRUCTION EXIT PAD.
- CLEAR, GRUB, STRIP AND STOCKPILE TOPSOIL.
- INSTALL SILT FENCE AROUND TOPSOIL STOCKPILE. IMMEDIATELY TEMPORARILY SEED STOCKPILE, BUT IN NO CASE MORE THAN 14 DAYS AFTER LAST DISTURBANCE. PERMANENTLY SEED STOCKPILE AFTER 30 DAYS OF INACTIVITY.
- CONSTRUCT SEDIMENT BASIN #1 (SBN#1) AND ASSOCIATED DIVERSION DITCHES.
- INSTALL EROSION CONTROL BLANKET ON SEDIMENT BASIN SLOPES.
- INSTALL STORM DRAINAGE SYSTEMS SHOWN AS SOON AS PRACTICAL AFTER PROPER SUBGRADE ELEVATIONS ARE ESTABLISHED TO DIRECT RUNOFF TO SEDEMENT BASINS. REFERENCE THE STORM PLANS FOR INFORMATION REGARDING STORM INSTALLATION.
- INSTALL INLET PROTECTION DEVICES AROUND DRAINAGE INLETS IMMEDIATELY UPON THEIR CONSTRUCTION.
- INSPECT, MAINTAIN, MOVE AND REPAIR TEMPORARY SEDIMENT CONTROL DEVICES AS REQUIRED THROUGHOUT THE CONSTRUCTION DURATION.
- CLEAN ACCUMULATED SEDIMENT FROM SEDIMENT BASINS WHEN REACHING A LEVEL OF HALF FULL.
- INSTALL RIP RAP OUTLET PROTECTION AND ROCK DITCH CHECKS AS INDICATED.
- PROVIDE TEMPORARY SEEDING OF SBN AND DIVERSION DITCH BOTTOMS AND SLOPES.
- DEMOLITION EFFORTS THAT RESULT IN EXPOSING SUBGRADE SOILS SHALL NOT COMMENCE UNTIL AFTER ALL INITIAL EROSION CONTROL MEASURES ARE FULLY IMPLEMENTED.

GENERAL NOTES:

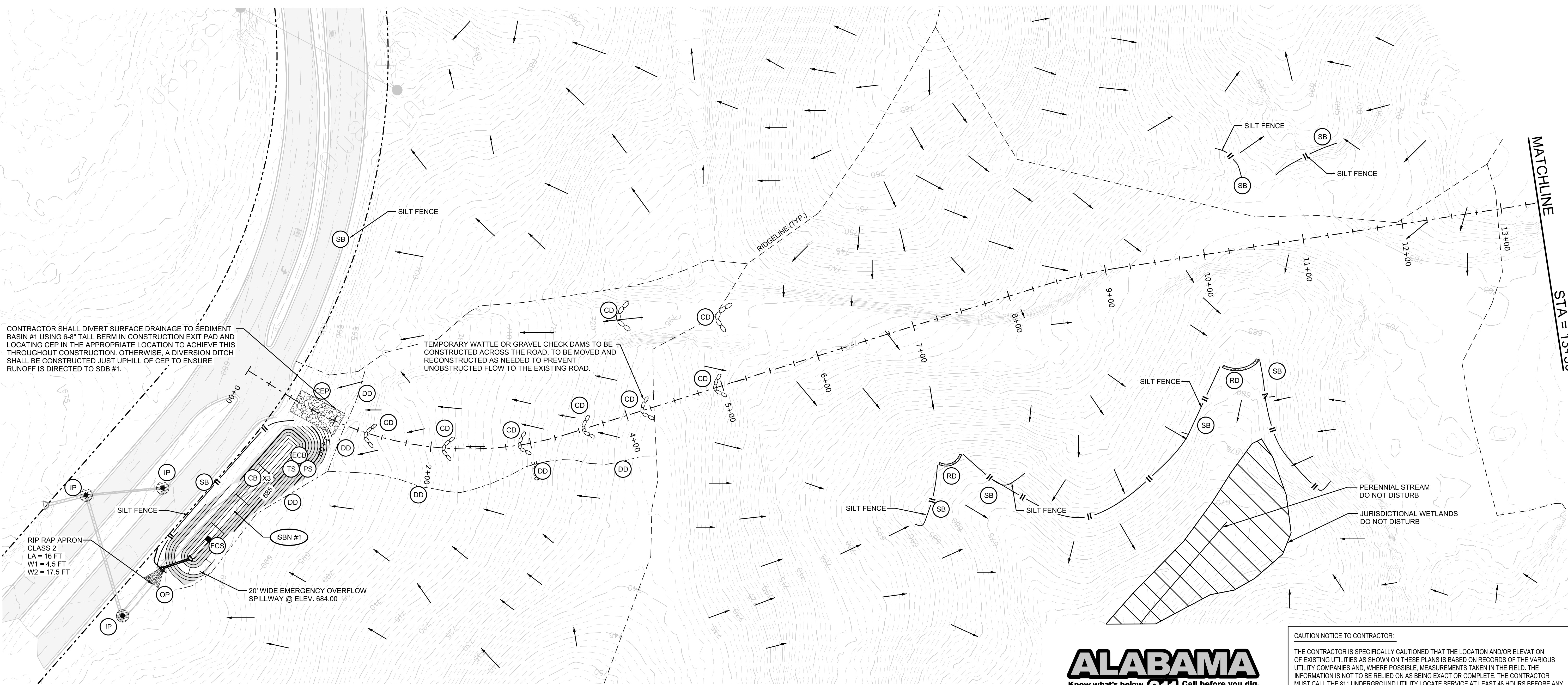
- PROPOSED START DATE - JUNE 2022
PROPOSED COMPLETION DATE - FEBRUARY 2024
- DISTURBED AREA = 8.30 ACRES

EROSION CONTROL LEGEND

OP		OUTLET PROTECTION
PS		PERMANENT SEEDING
DC		DUST CONTROL
IP		INLET PROTECTION
TS		TEMPORARY SEEDING
DD		DIVERSION DITCH/DIKE
FCS		FAIRCLOTH SKIMMER
SBN		SEDIMENT BASIN
RD		ROCK CHECK DAM
CD		WATTLE CHECK DAM
CB		COIR BAFFLE (WHERE NOTED)
SB		TYPE "A" SILT FENCE
CEP		CONSTRUCTION EXIT PAD
ECB		EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S150BN)



TEMPORARY SBN #1 SIZING
 0.66 AC. DRAINAGE AREA X 3600 CU. FT. = 2,376 CU. FT.
 7,110 CU. FT. PROVIDED AT ELEVATION 684.00
 POND BOTTOM = 680.00
 BERM ELEVATION = 684.50
 FAIRCLOTH SKIMMER SIZE = 2.0" SKIMMER
 WITH 1.6" DIAMETER ORIFICE



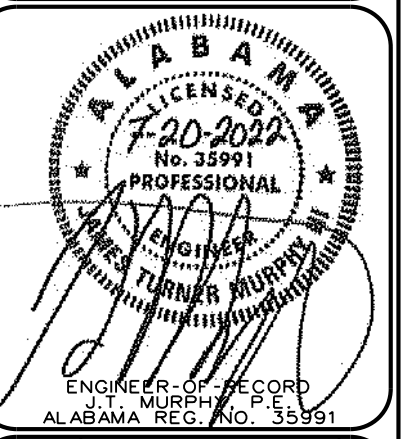
CONTRACTOR SHALL DIVERT SURFACE DRAINAGE TO SEDIMENT BASIN #1 USING 6-8" TALL BERM IN CONSTRUCTION EXIT PAD AND LOCATING CEP IN THE APPROPRIATE LOCATION TO ACHIEVE THIS THROUGHOUT CONSTRUCTION. OTHERWISE, A DIVERSION DITCH SHALL BE CONSTRUCTED JUST UPHILL OF CEP TO ENSURE RUNOFF IS DIRECTED TO SDB#1.

TEMPORARY WATTLE OR GRAVEL CHECK DAMS TO BE CONSTRUCTED ACROSS THE ROAD, TO BE MOVED AND RECONSTRUCTED AS NEEDED TO PREVENT UNOBSTRUCTED FLOW TO THE EXISTING ROAD.

CAUTION NOTICE TO CONTRACTOR:
 THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE 811 UNDERGROUND UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. KEEP UTILITY LOCATE REQUEST ACTIVE UNTIL EXCAVATION IS COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



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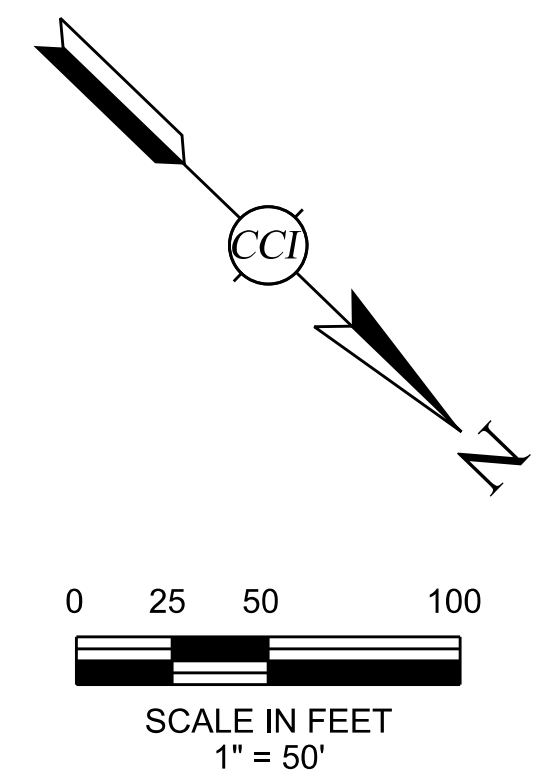
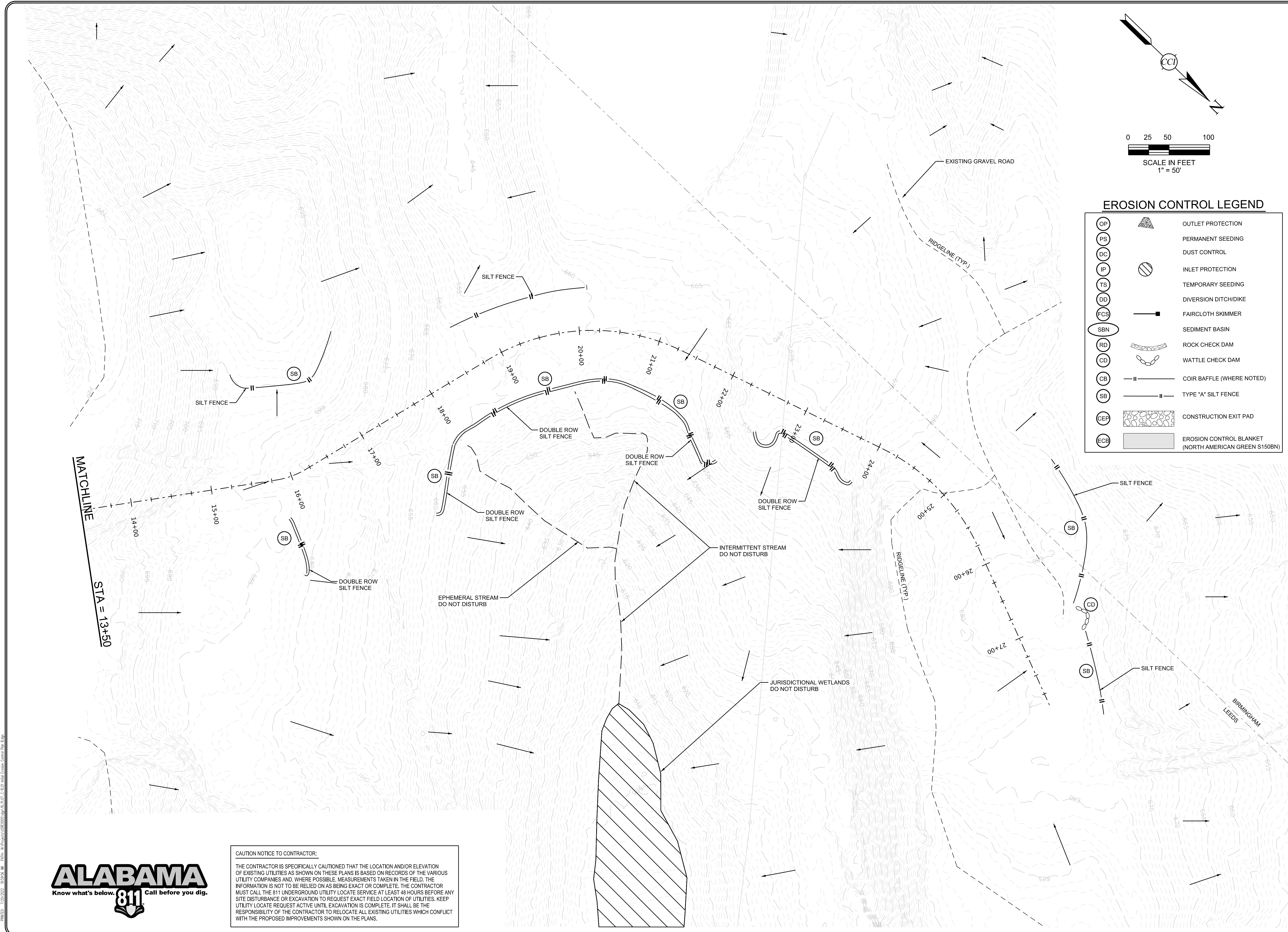
EROSION AND SEDIMENT CONTROL PLAN
 STA 0+00 TO 13+50 - INITIAL

THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR
 U.S. STEEL CORPORATION

DATE: 07/20/2022
 PROJECT NO: USRE0005
 DRAWN BY: BAG
 CHECKED BY: JTM
 SCALE: 1" = 50'

NO.	DESCRIPTION	BY	CHECKED BY	REV. DATE
0	ISSUE FOR PERMIT	BAG	JTM	07/20/2022

DRAWING NO.
C-10.00



EROSION CONTROL LEGEND

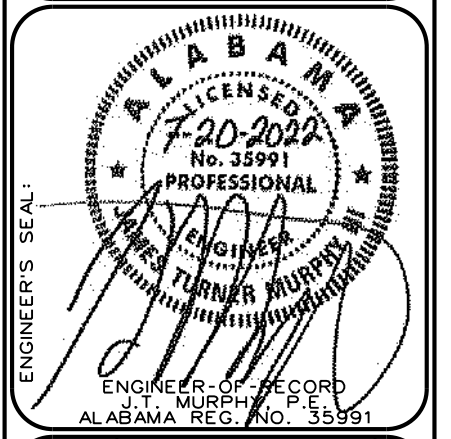
OP		OUTLET PROTECTION
PS		PERMANENT SEEDING
DC		DUST CONTROL
IP		INLET PROTECTION
TS		TEMPORARY SEEDING
DD		DIVERSION DITCH/DIKE
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SBN		SEDIMENT BASIN
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SB		TYPE "A" SILT FENCE
CEP		CONSTRUCTION EXIT PAD
ECB		EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S150BN)

MATCHLINE
STA = 13+50

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EROSION AND SEDIMENT CONTROL PLAN
 STA 13+50 TO END - INITIAL

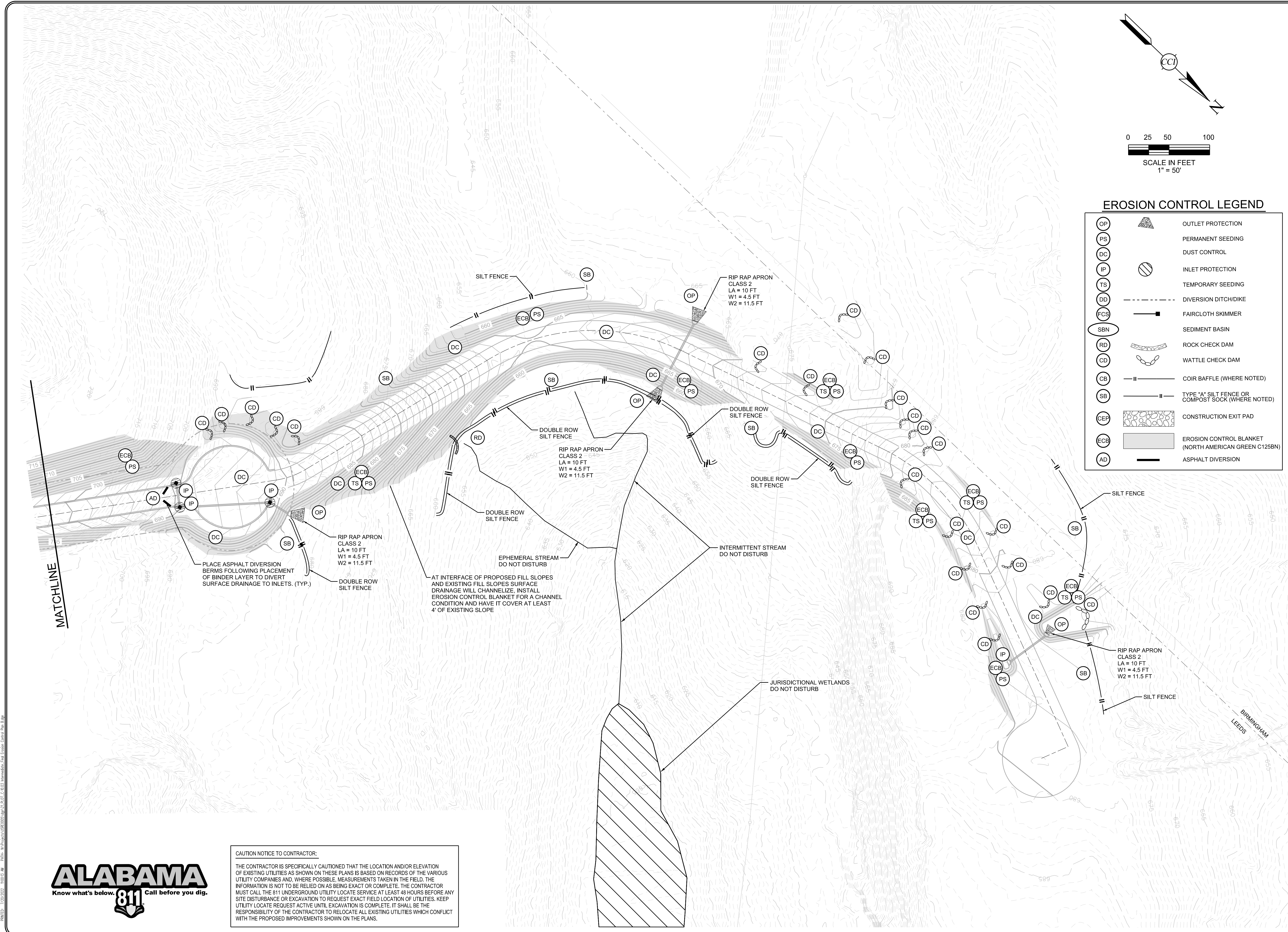
THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR
 U.S. STEEL CORPORATION

PROJECT USRE0005 DRAWN BY: BAG CHECKED BY: JTM SCALE: 1" = 50'

DATE: 07/20/2022

NO.	DESCRIPTION	BY	CHECKED BY	REV.	DATE
0	ISSUE FOR PERMIT	BAG	JTM		07/20/2022

DRAWING NO. **C-10.01**



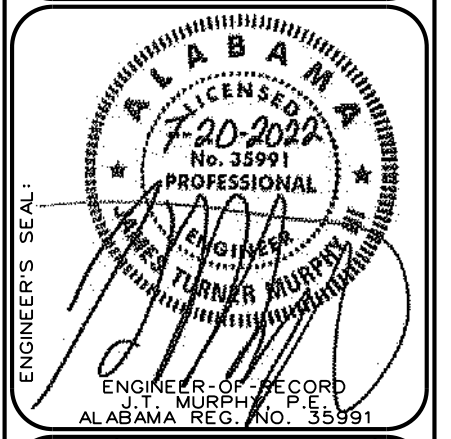
EROSION CONTROL LEGEND

OP		OUTLET PROTECTION
PS		PERMANENT SEEDING
DC		DUST CONTROL
IP		INLET PROTECTION
TS		TEMPORARY SEEDING
DD		DIVERSION DITCH/DIKE
FCS		FAIRCLOTH SKIMMER
SBN		SEDIMENT BASIN
RD		ROCK CHECK DAM
CD		WATTLE CHECK DAM
CB		COIR BAFFLE (WHERE NOTED)
SB		TYPE "A" SILT FENCE OR COMPOST SOCK (WHERE NOTED)
CEP		CONSTRUCTION EXIT PAD
ECB		EROSION CONTROL BLANKET (NORTH AMERICAN GREEN C125BN)
AD		ASPHALT DIVERSION

CAUTION NOTICE TO CONTRACTOR:
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EROSION AND SEDIMENT CONTROL PLAN STA 13+50 TO END INTERMEDIATE/FINAL
 THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR
 U.S. STEEL CORPORATION
 PROJECT NO. USRE0005
 DATE: 07/20/2022
 DRAWN BY: JTM
 CHECKED BY: BAG
 SCALE: 1" = 50'

NO.	DESCRIPTION	BY	CHKD BY	REV.	DATE
0	ISSUE FOR PERMIT	JTM	BAG		07/20/2022

DRAWING NO. **C-10.03**

TS COMMONLY USED PLANTS FOR TEMPORARY COVER

SPECIES	SEEDING RATE/AC PLS	SEEDING DATES (NORTH)
RYE	3 BU	SEPT 1 - NOV 15
RYEGRASS	30 LBS	AUG 1 - SEPT 15
SORGHUM-SUDAN HYBRIDS	40 LBS	MAY 1 - AUG 1
SUDANGRASS	40 LBS	MAY 1 - AUG 1
COMMON BERMUDAGRASS	10 LBS	APR 1 - JULY 1
CRIMSON CLOVER	10 LBS	SEPT 1 - NOV 1

PS COMMONLY USED PLANTS FOR PERMANENT COVER WITH SEEDING

SPECIES	SEEDING RATE/AC PLS	SEEDING DATES (NORTH)
BERMUDAGRASS COMMON	10 LBS	APR 1 - JULY 1
BERMUDAGRASS HYBRID (LAWN TYPES)	SOLID SOD	ANYTIME
BERMUDAGRASS HYBRID (LAWN TYPES)	SPRINGS 1/SQ FT	MAR 1 - AUG 1
FESCUE, TALL	40 - 50 LBS	SEPT 1 - NOV 1
SERICEA	40 - 60 LBS	MAR 15 - JULY 15
SERICEA & COMMON BERMUDAGRASS	40 - 60 LBS	MAR 15 - JULY 15
SWITCHGRASS, ALAMO	4 LBS	APR 1 - JUN 15

DEFINITION:
ESTABLISHING TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON ALL DISTURBED OR DENUDED AREAS THAT ARE NOT GOING TO BE GRADED WITHIN 13 DAYS.

PURPOSE:
- TO REDUCE EROSION, SEDIMENT, AND RUNOFF DAMAGES TO DOWNSTREAM RESOURCES.
- TO IMPROVE WILDLIFE HABITAT.
- TO IMPROVE AESTHETICS.
- TO IMPROVE SAFETY AND PUBLIC ROAD RIGHTS-OF-WAY.
- TO IMPROVE TILL AND ADD ORGANIC MATTER FOR PERMANENT PLANTINGS.

CONDITIONS:
TEMPORARY VEGETATION IS REQUIRED ON ALL DISTURBED OR DENUDED AREAS THAT ARE NOT GOING TO BE GRADED WITHIN 13 DAYS.
THIS PRACTICE IS APPLICABLE ON AREAS SUBJECT TO EROSION FOR UP TO TWELVE MONTHS UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATIVE COVER. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION.

SPECIFICATIONS:
A. GRADING AND SHAPING

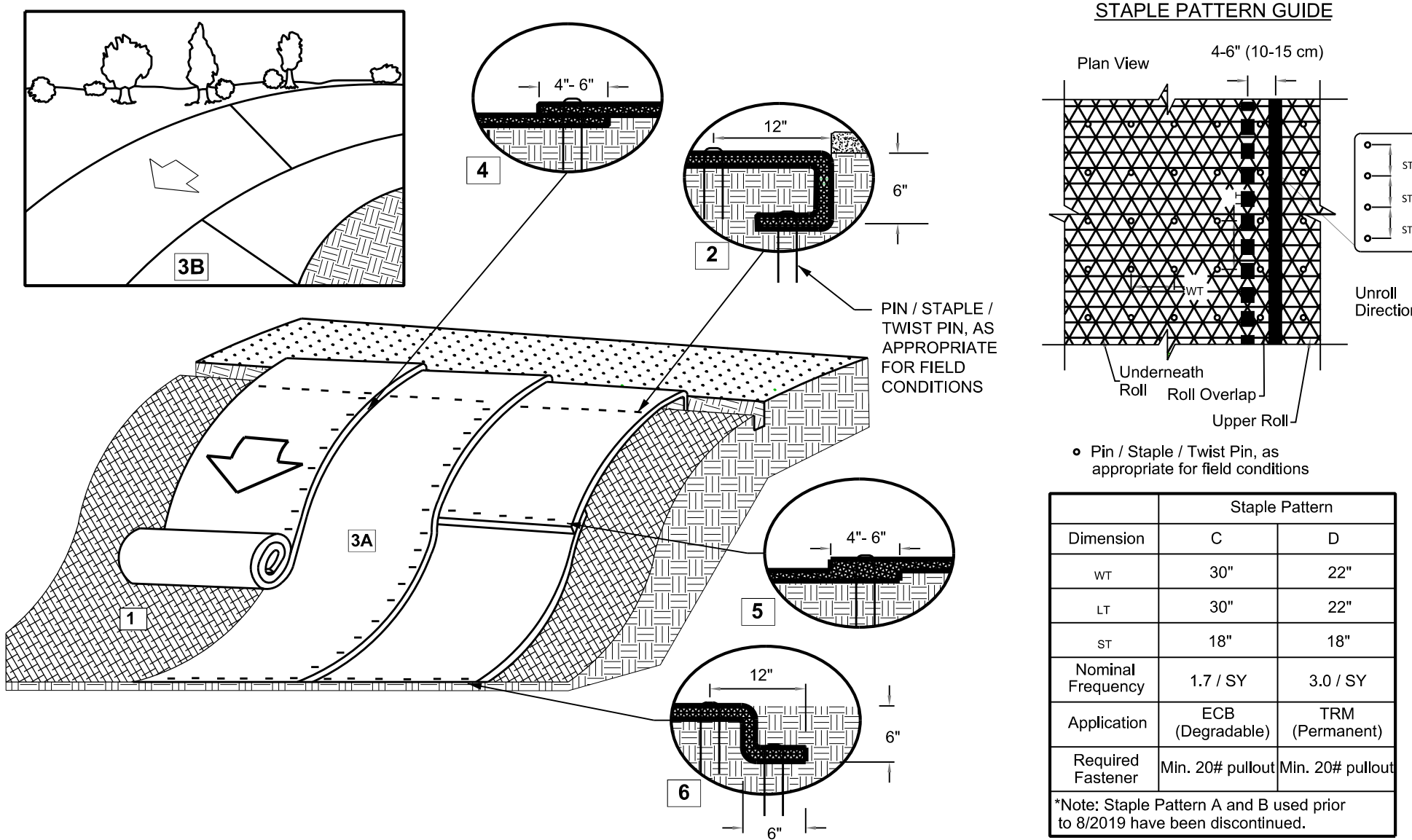
- EXCESSIVE WATER RUN-OFF MUST BE CONTROLLED BY PLANNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BASINS, AND OTHERS.
- NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDING VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

B. SEEDBED PREPARATION

- WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED UNLESS SOIL SURFACE IS COMPACTED.
- WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND HAS NOT BEEN SEALED BY RAINFALL OR COMPACTON.
- WHEN SOIL HAS BEEN SEALED BY RAINFALL, COMPACTON OR CONSISTS OF SMOOTH UNDISTURBED CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED A MINIMUM OF 6-INCHES DEEP TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE. BREAK UP LARGE CLOUDS AND LOOSEN COMPACTED, HARD OR CRUSTED SOIL WITH APPROPRIATE TILLAGE EQUIPMENT. AVOID PREPARING THE SEEDBED UNDER EXCESSIVELY WET CONDITIONS.

TS DISTURBED AREA STABILIZATION W/TEMPORARY SEEDING

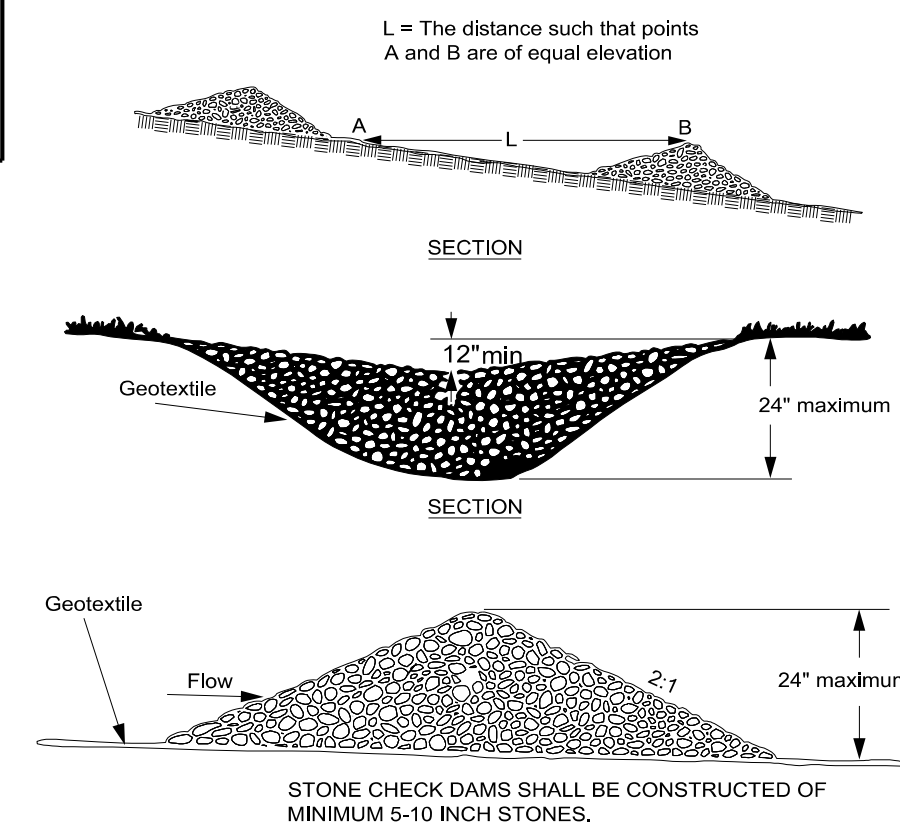
PS DISTURBED AREA STABILIZATION W/ PERMANENT SEEDING



INSTRUCTIONS:

- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. GROUND SURFACE MUST BE FREE OF DEBRIS, ROCKS, CLAY CLOUDS, AND RAKED SMOOTH SUFFICIENT TO ALLOW INTIMATE CONTACT OF THE RECP WITH THE SOIL OVER THE ENTIRETY OF THE INSTALLATION.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH, ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES/PINS SPACED AT ST APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING AND FOLD THE ROLL OVER DOWN SLOPE. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES/PINS SPACED AT ST APART ACROSS THE WIDTH OF THE RECPs.
- ROLL THE RECPs (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. WHEN LAYING RECPs HORIZONTALLY, A MAXIMUM OF TWO ROLL WIDTHS OR 16 FEET, WHICHEVER IS LESS, MAY BE APPLIED UP THE SLOPE. TWO ROLL WIDTHS OR 16 FT IS INSUFFICIENT TO COVER THE SLOPE. MATERIAL SHALL BE PLACED VERTICALLY. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES/PINS IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. ROLL MAX RECPs AND ECBs SHOULD UTILIZE STAPLE PATTERN C, TRMs AND VMx MATERIALS SHOULD UTILIZE STAPLE PATTERN D.
- THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 4" - 6" (10 - 15 CM) OVERLAP.
- CONSECUTIVE RECPs SPLICED DOWN THE SLOPE MUST OVERLAP WITH THE UPSTREAM MAT AT TOP OF THE DOWNSTREAM MAT (SHINGLE STYLE). THE OVERLAP SHOULD BE 4" - 6" (10 - 15 CM).
- AT THE TERMINAL END, SECURE EACH MAT ACROSS THE WIDTH WITH A ROW OF STAPLES/STAKES/PINS SPACED AT ST. IF EXPOSED TO FLOW, FOOT TRAFFIC WIND UPLIFT OR OTHER DISRUPTION, TRENCH THE TERMINAL END AS SHOWN IN DETAIL.
- FASTENERS SHOULD PROVIDE A MINIMUM OF TWENTY POUNDS OF PULL OUT RESISTANCE. SIX-INCH (10 CM) X ONE-INCH (2.5 CM) ELEVEN GAUGE STAPLES ARE TYPICALLY ADEQUATE. IN LOOSE SOILS, LONGER STAPLES MAY BE NECESSARY. TWIST PINS CAN PROVIDE THE GREATEST PULL OUT RESISTANCE. IN HARD OR ROCKY SOILS, STRAIGHT PINS MAY BE USED. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE. THE MINIMUM PULL OUT REQUIREMENTS ARE MET. BIO-DEGRADABLE FASTENERS SHALL NOT BE USED WITH TRM OR HPTRM MATERIALS.

ECB EROSION CONTROL BLANKET
N.T.S.

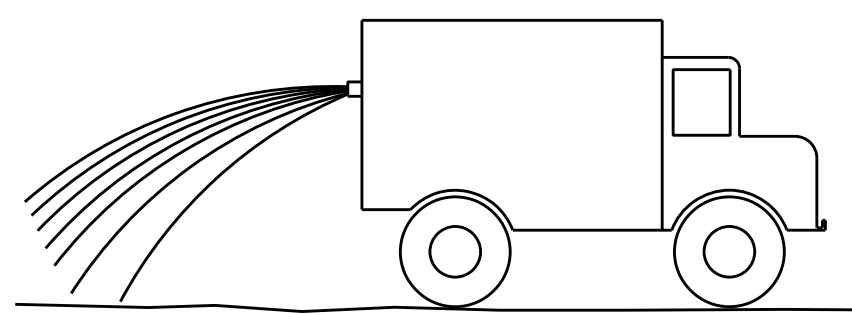


CD ROCK CHECK DAM
N.T.S.

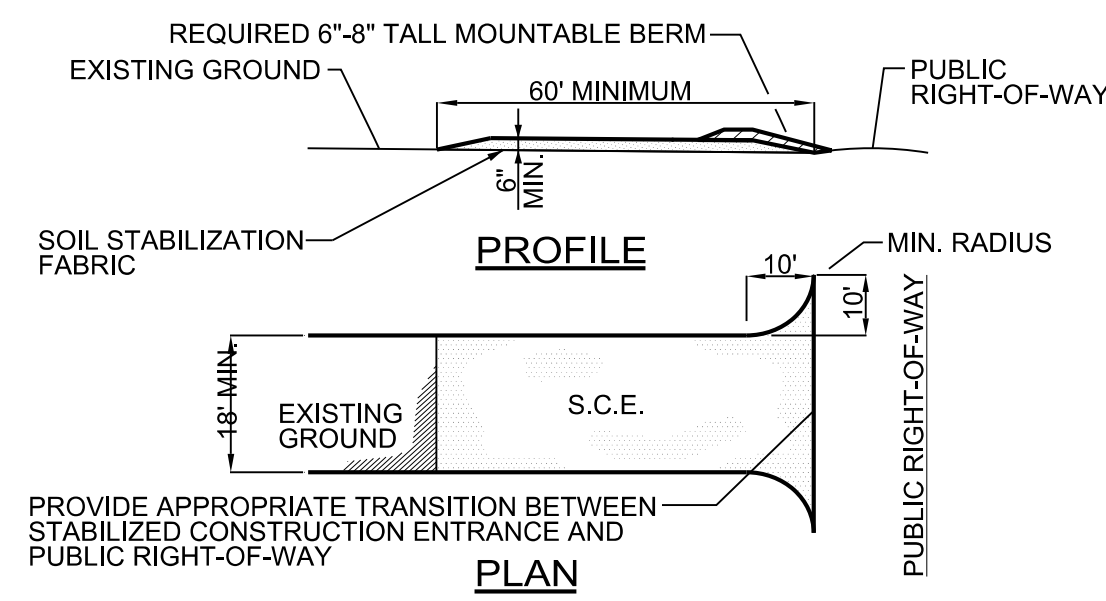
DEFINITION:
CONTROLLING SURFACE AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS AND DEMOLITION SITES.

TEMPORARY:
MAY USE MULCHES, SYNTHETIC RESINS SUCH AS CURASOL OR TERRATAK, IRRIGATION OR FENCE BARRIER.

PERMANENT:
TOPSOILING, CRUSHED STONE SURFACE



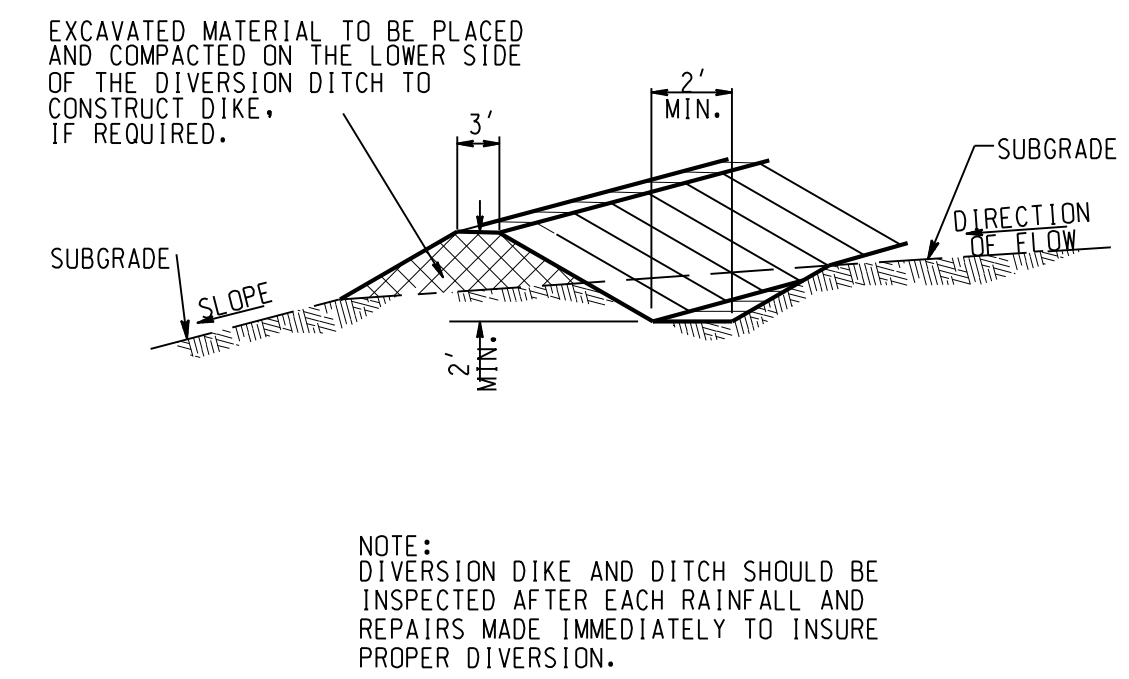
DC DUST CONTROL
N.T.S.



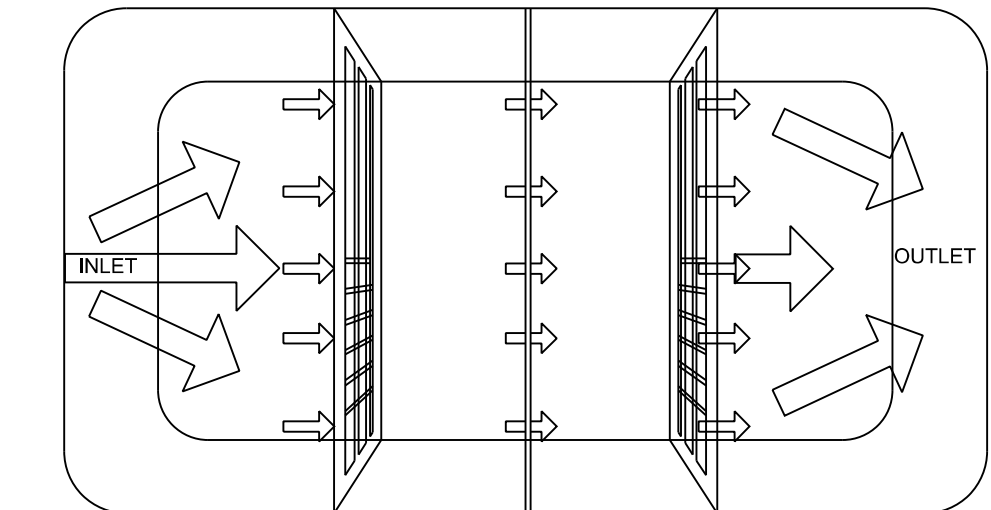
CONSTRUCTION SPECIFICATIONS

- STONE SIZE: #4 WASHED STONE.
- LENGTH: AS EFFECTIVE, BUT NOT LESS THAN 60 FT. (WITH THE EXCEPTION OF 3. THICKNESS: NOT LESS THAN 6 INCHES.
- THICKNESS: NOT LESS THAN 6 INCHES.
- WIDTH: 18 FT. MIN., BUT NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS AND EGRESS.
- STABILIZATION FABRIC: WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER: ALL SURFACE WATER FLOWING OF DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES IS PERMITTED.
- WASHING: WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SILT FENCES, ROCK BARRIERS OR OTHER APPROVED METHODS.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

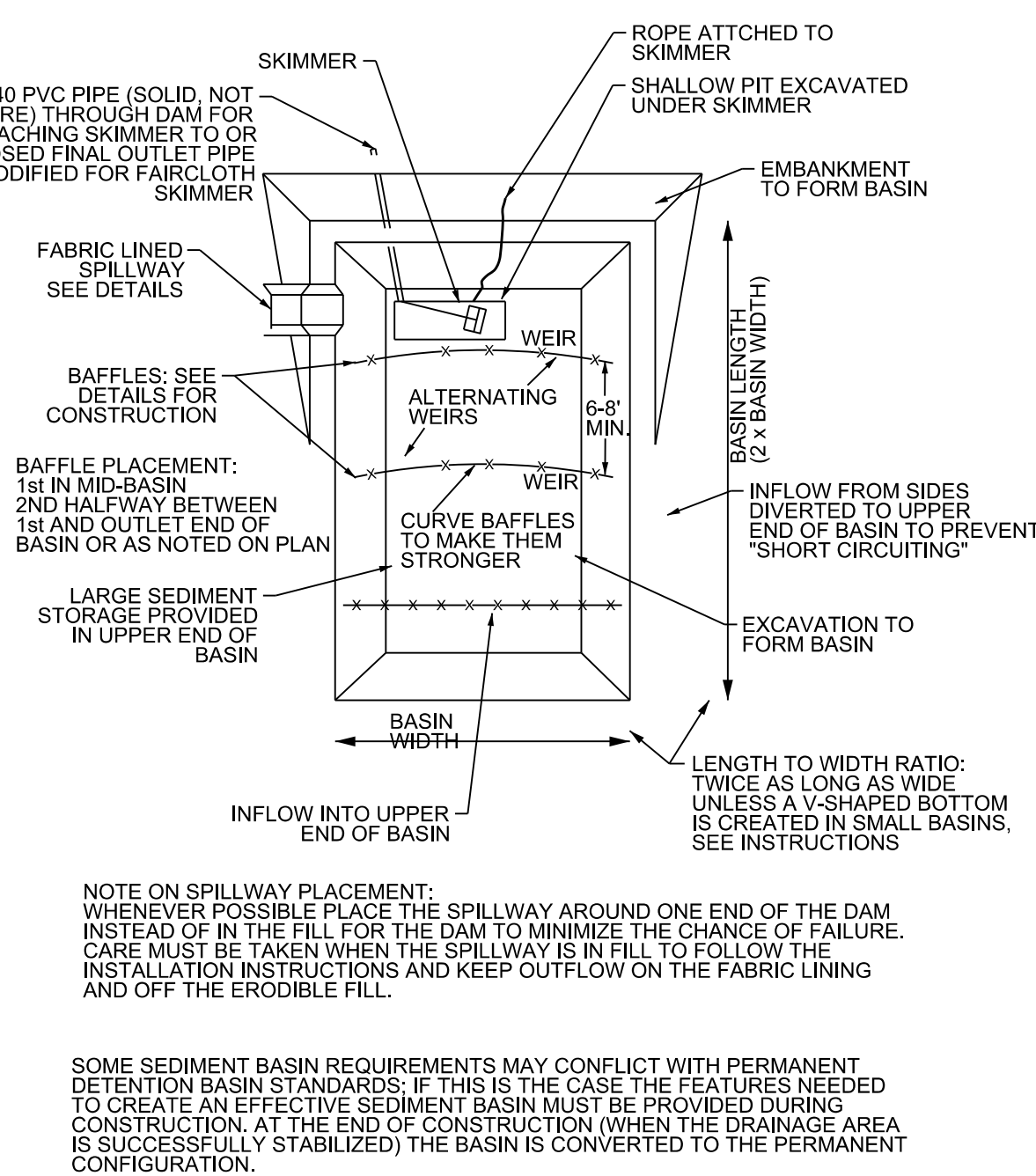
CEF CONSTRUCTION EXIT PAD
N.T.S.



DD DIVERSION DITCH/DIKE DETAIL
N.T.S.



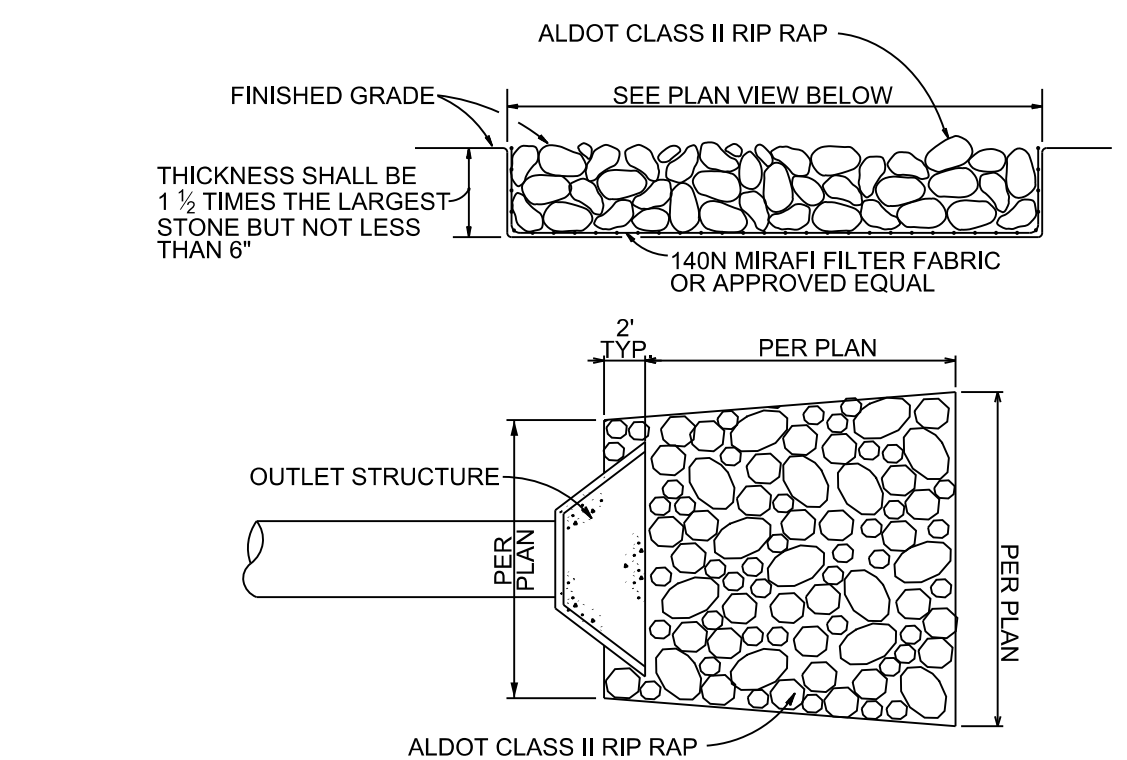
CB TEMPORARY COIR BAFFLE DETAIL
N.T.S.



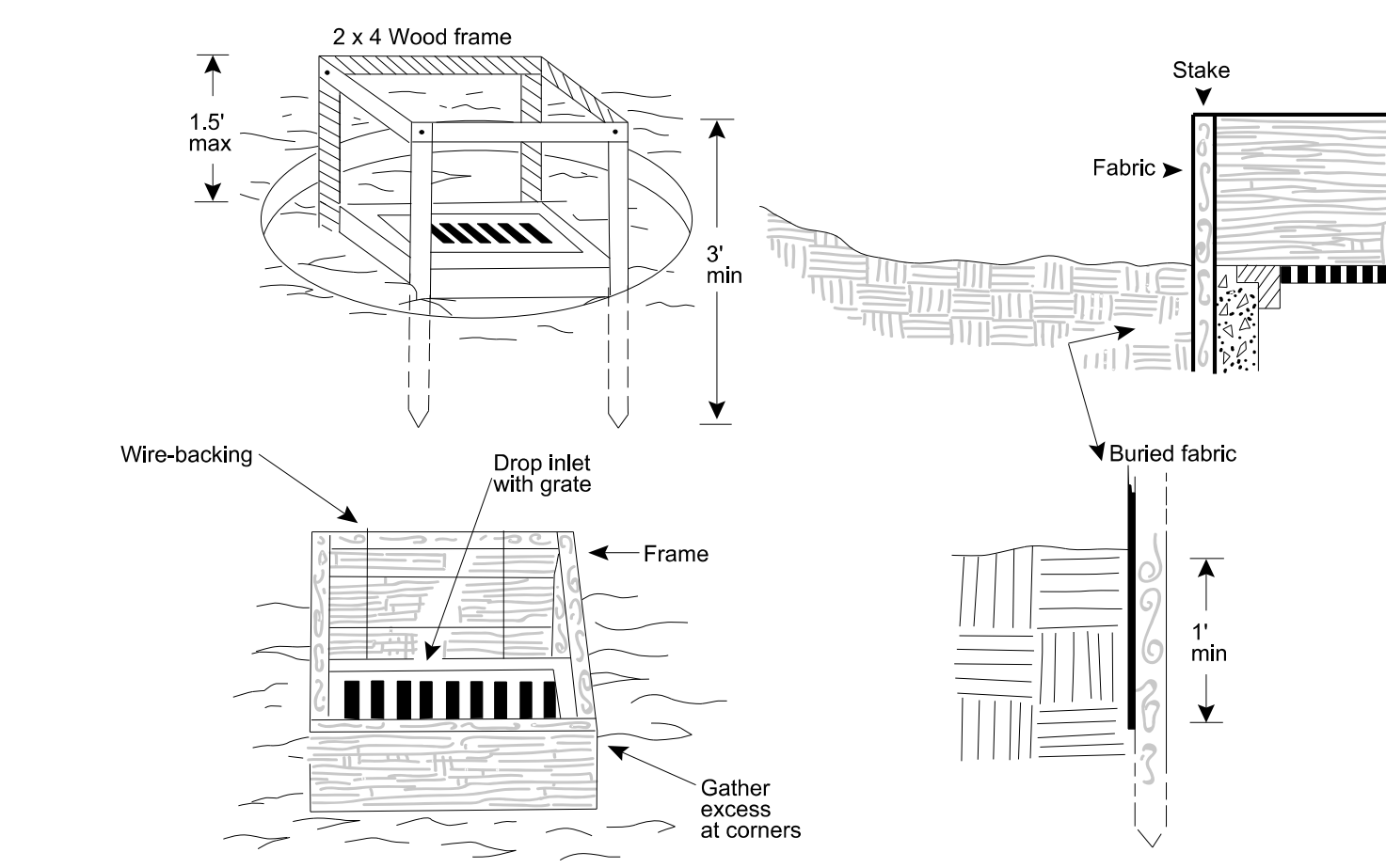
SBN PLAN VIEW OF SEDIMENT BASIN COMPONENTS
N.T.S.

CAUTION NOTICE TO CONTRACTOR:

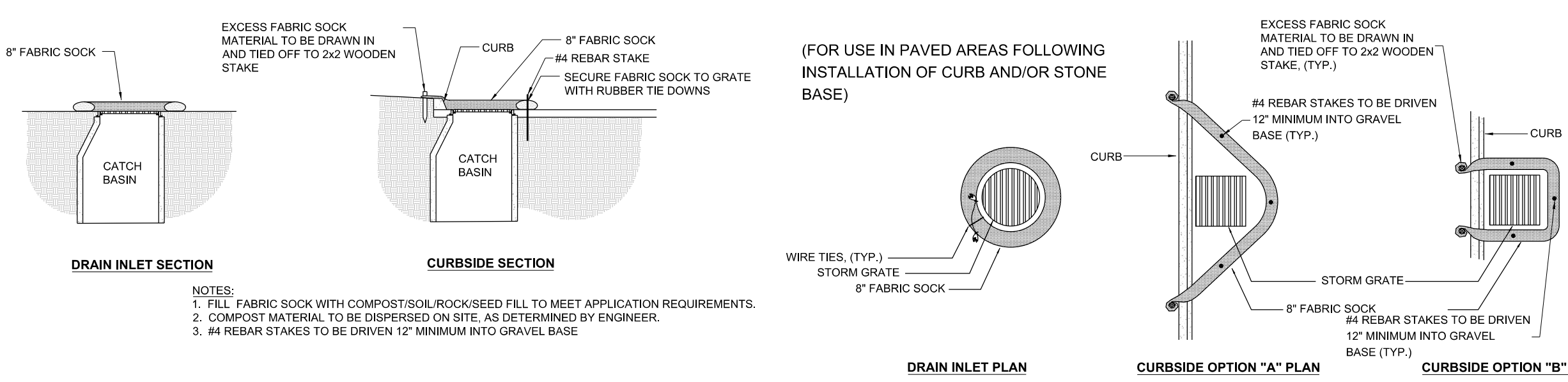
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OR RIPRAP END TREATMENT DETAIL
N.T.S.



IP SILT FENCE INLET PROTECTION
N.T.S.



IP WOOD CHIP & COMPOST INLET PROTECTION
N.T.S.



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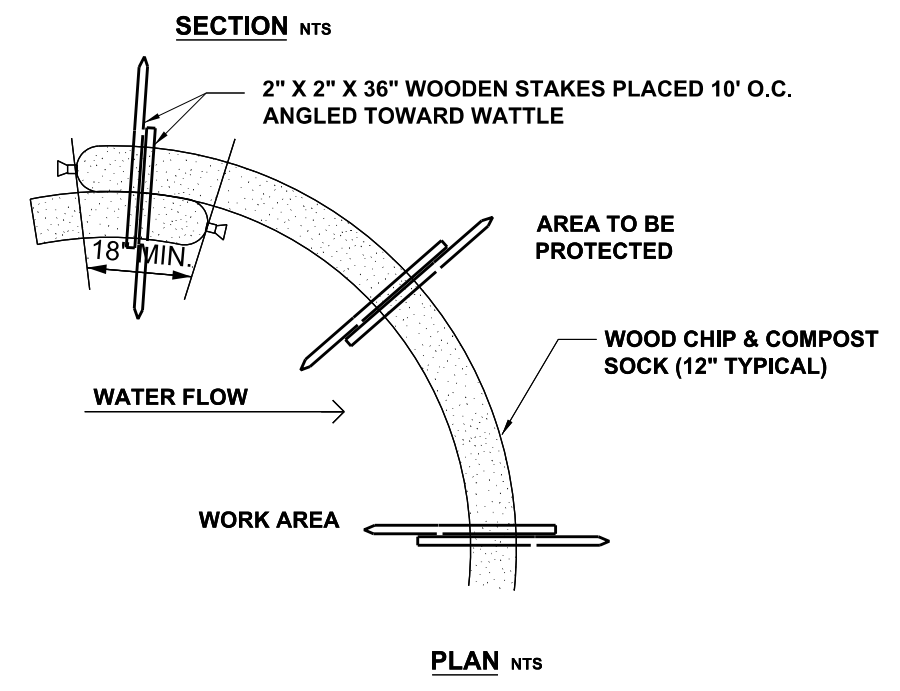
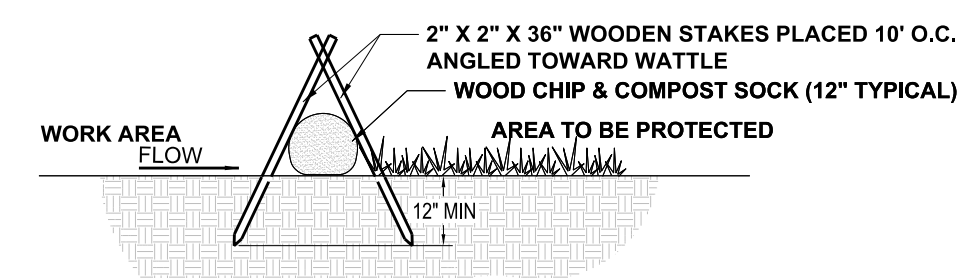
EROSION CONTROL SECTIONS AND DETAILS

THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT NO. USRE0005
DATE: 07/20/2022
DRAWN BY: BAG
CHECKED BY: JTM
SCALE: N.T.S.

NO.	DESCRIPTION	DATE	BY	CHKD BY	REV. DATE	REVISIONS
0	ISSUE FOR PERMIT	07/20/2022	BAG	JTM		

DRAWING NO. **C-10.04**



NOTES:
 1. FILL FABRIC SOCK WITH COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
 2. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

WOOD CHIP & COMPOST SOCK (WATTLE) SEDIMENT CONTROL
 N.T.S.

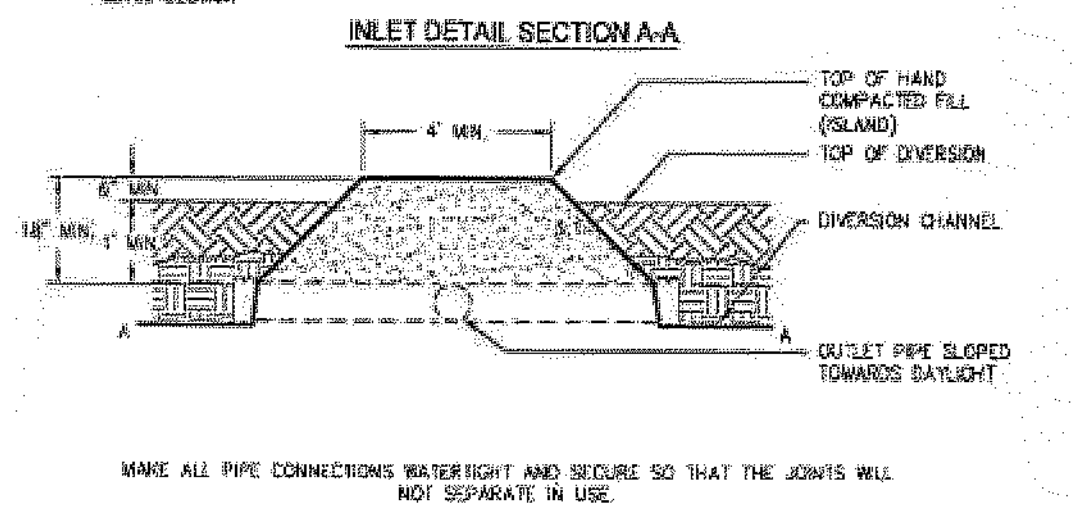
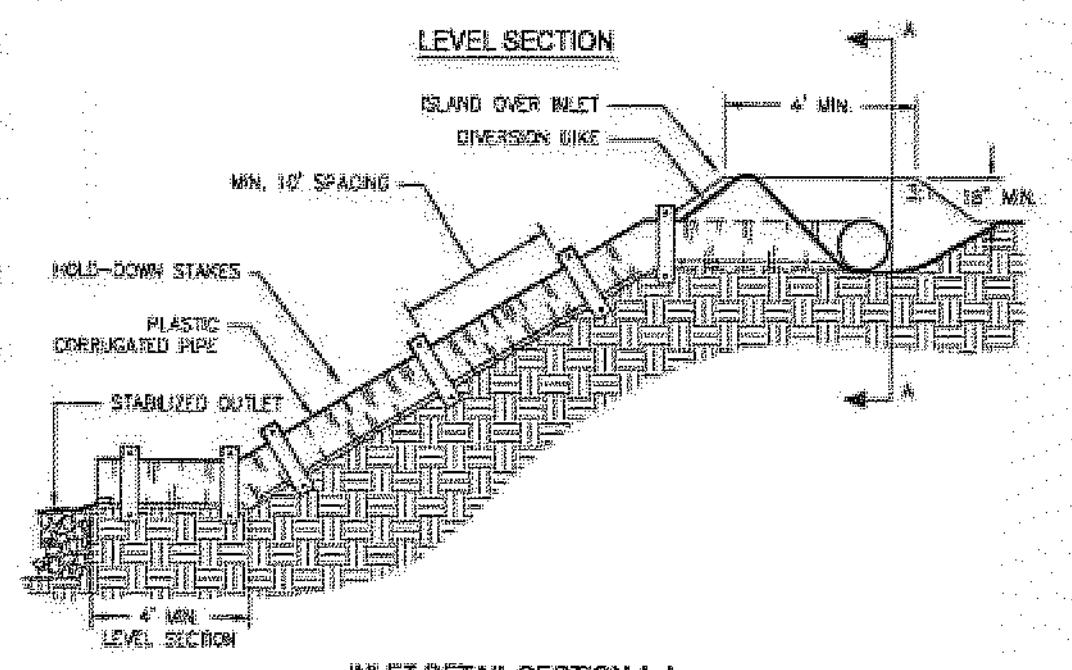
SB SEDIMENT BARRIER (WATTLE)

Downdrain

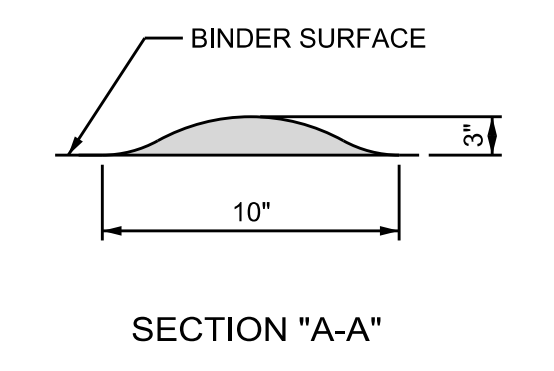
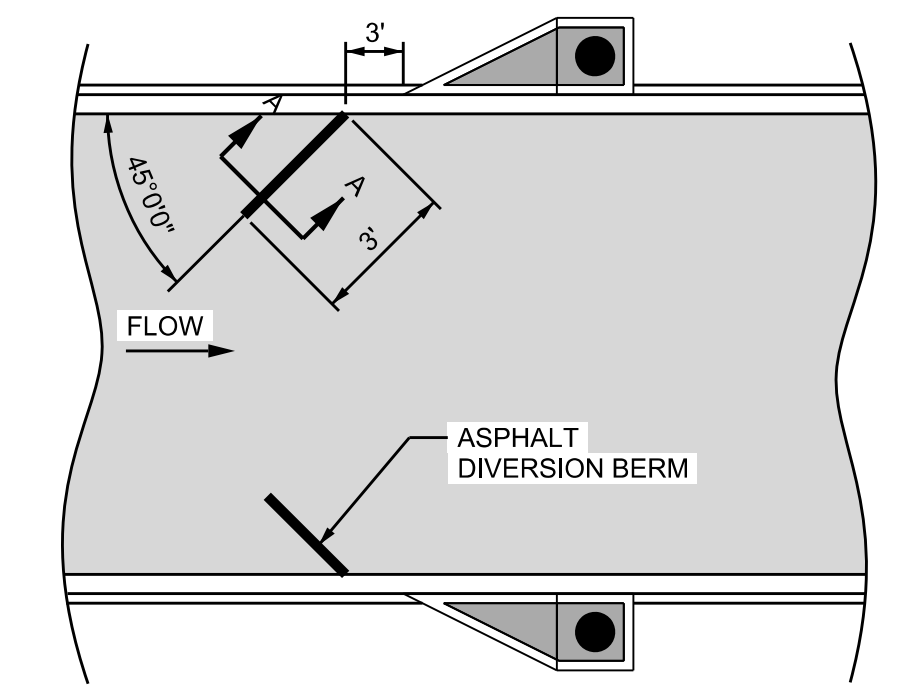
Maximum Drainage Area per Pipe (acres)	Pipe Diameter (inches)
0.3	10
0.5	12
1.0	18

- Ensure that fill over the drain at the top of the slope meets the minimum dimensions.
- Ensure connections are watertight.
- Extend pipe beyond the toe of the slope.
- For steep slopes, drains should be placed diagonally across the slope.
- Curve the outlet uphill.
- Stabilize outlet with rock riprap. A Tee outlet, flared end section, or other suitable device may be used for additional protection.
- Direct all flows into a sediment trap if drains convey sediment-laden runoff.
- Stabilize all disturbed areas immediately.

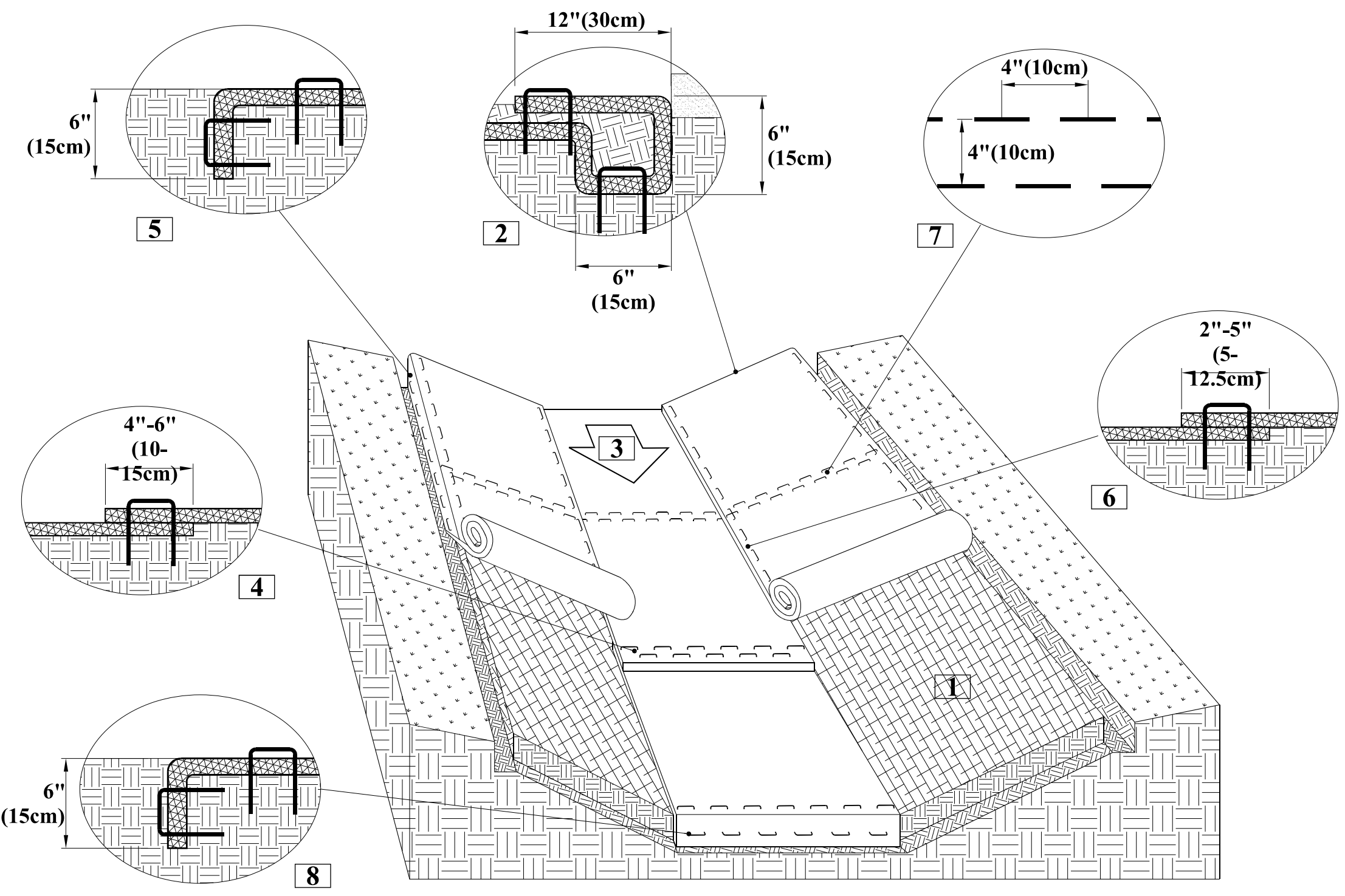
TSD TEMPORARY SLOPE DRAIN
 N.T.S.



MAKE ALL PIPE CONNECTIONS WATERTIGHT AND SECURE SO THAT THE JOINTS WILL NOT SEPARATE IN USE.



AD ASPHALT DIVERSION BERM
 N.T.S.



CHANNEL INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECPs must be overlapped approximately 2"-5" (5-12.5cm) (Depending on RECPs type) and stapled.
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9-12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.

- CRITICAL POINTS**
- A. Overlaps and Seams
 - B. Projected Water Line
 - C. Channel Bottom/Side Slope Vertices

NOTES:
 *Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.
 **In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

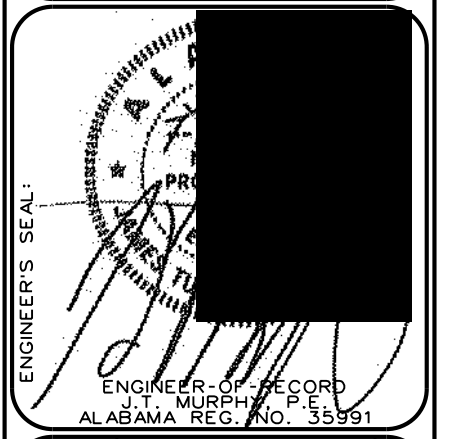
Drawing Not To Scale

NORTH AMERICAN GREEN
 5401 St. Wendel - Cynthiana Rd.
 Poseyville, IN 47633
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 www.nagreen.com

Disclaimer:
 The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

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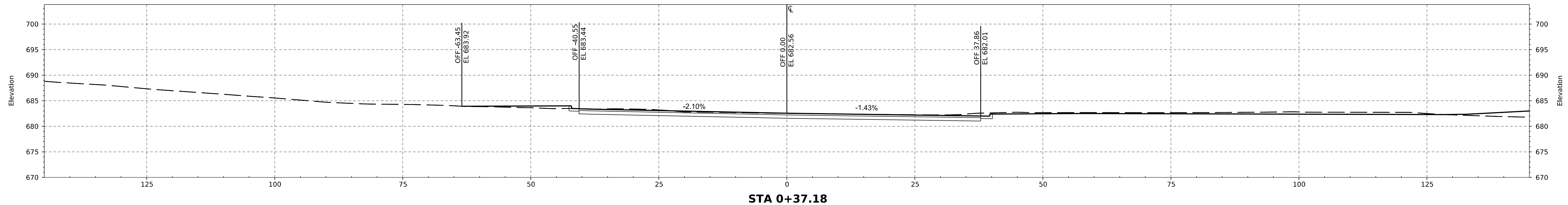
EROSION CONTROL SECTIONS AND DETAILS
 THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR
 U.S. STEEL CORPORATION
 PROJECT NO. USRE0005
 DATE: 07/20/2022
 DRAWN BY: JTM
 CHECKED BY: BAG
 SCALE: N.T.S.

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0	ISSUE FOR PERMIT	BAG	JTM		07/20/2022

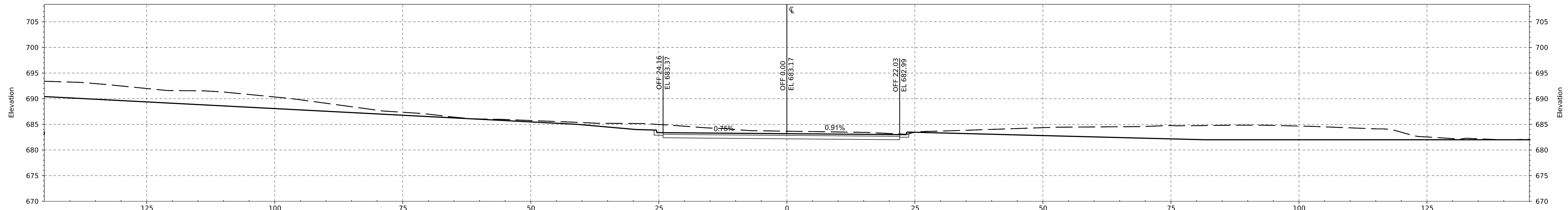
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C-10.05



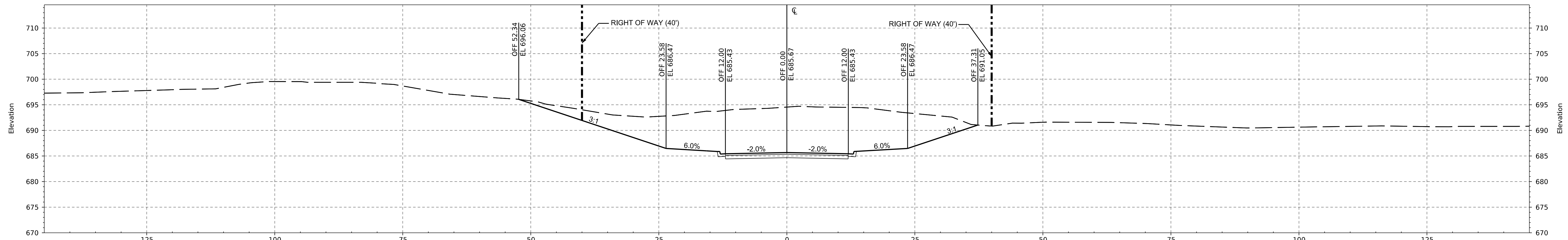
CAUTION NOTICE TO CONTRACTOR:
 THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE 811 UNDERGROUND UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. KEEP UTILITY LOCATE REQUEST ACTIVE UNTIL EXCAVATION IS COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



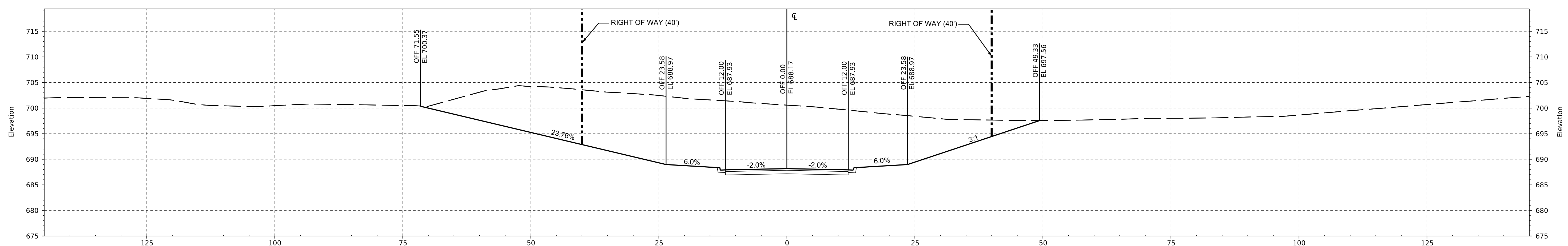
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STA 0+50.00



STA 1+00.00



STA 1+50.00

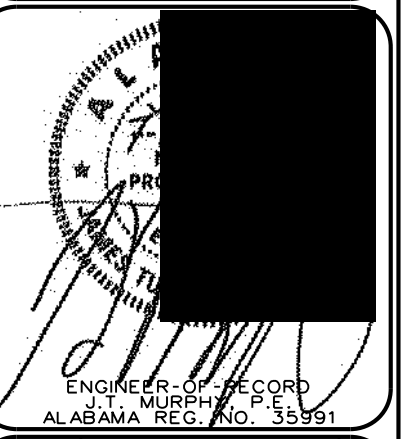
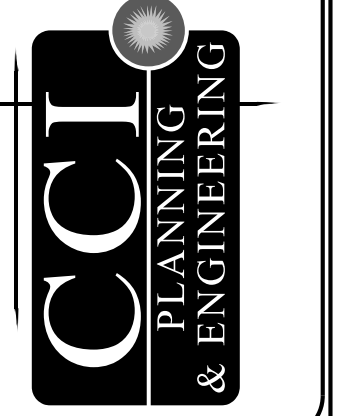
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HORIZONTAL SCALE: 1"=10'

LEGEND

—	FINISHED GRADE
- - -	EXISTING GROUND

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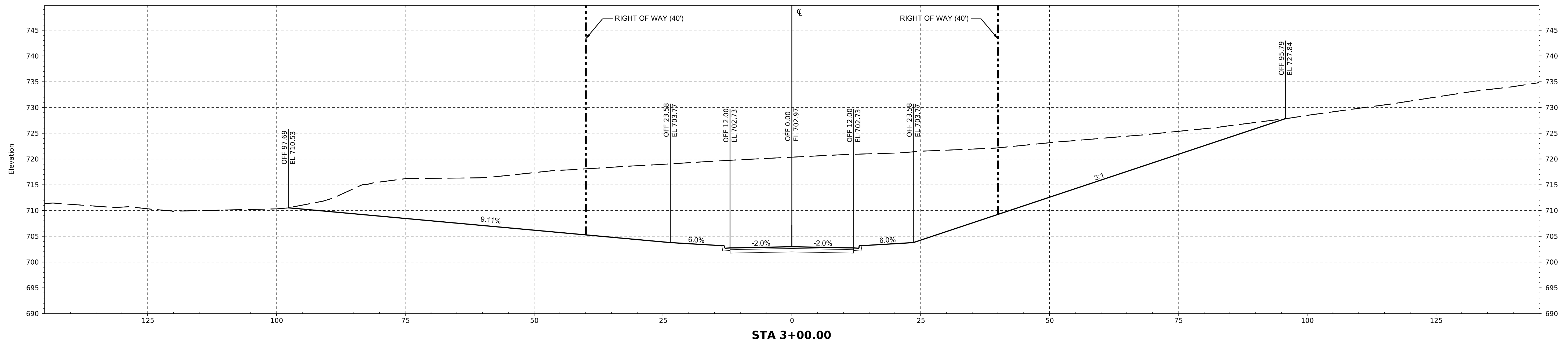
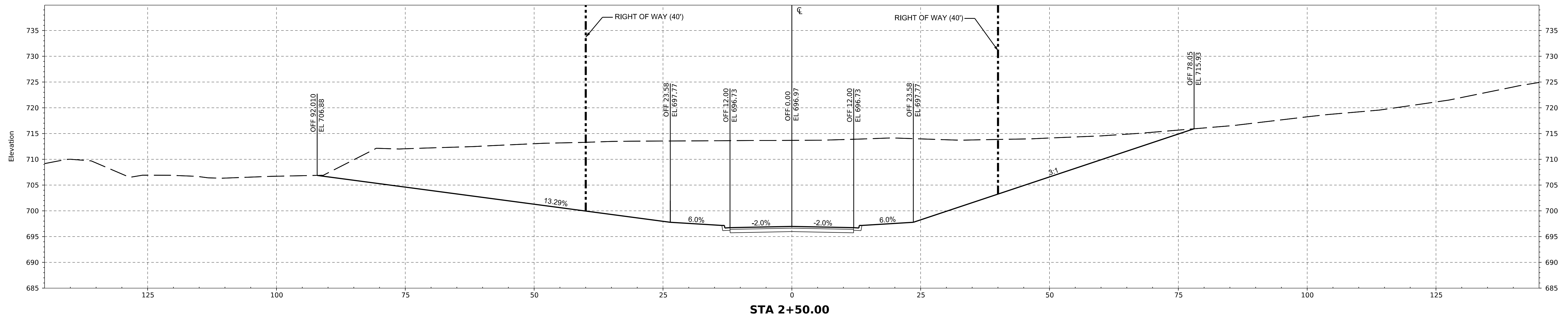
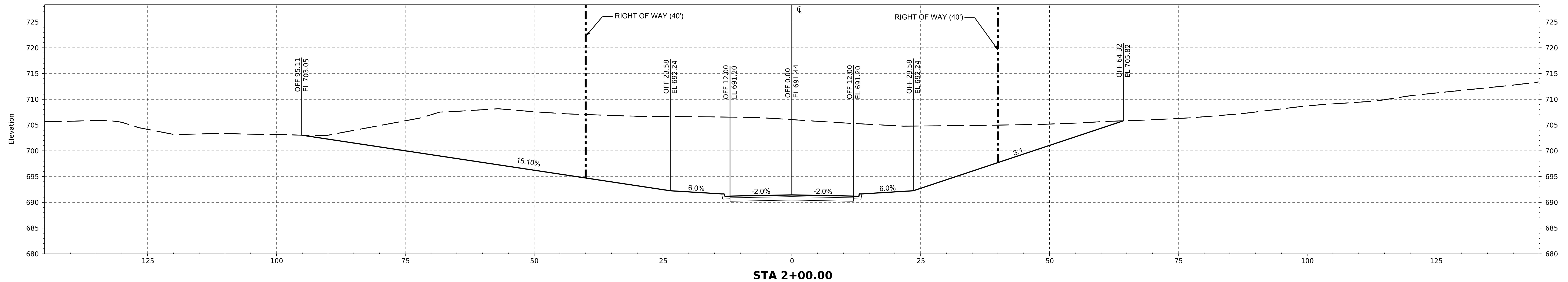
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STA. 0+37 TO STA. 1+50 CROSS SECTIONS
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PROJECT NO: USRE0005
DATE: 07/20/2022
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SCALE: AS NOTED

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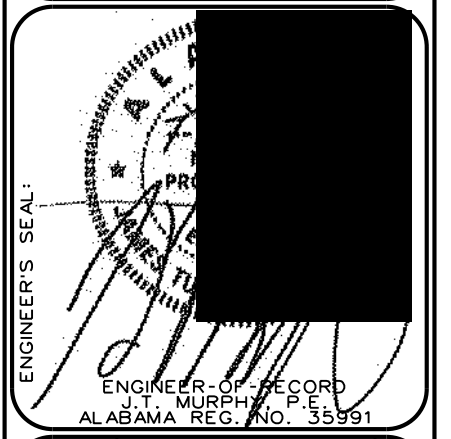
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LEGEND

— FINISHED GRADE
 - - - EXISTING GROUND

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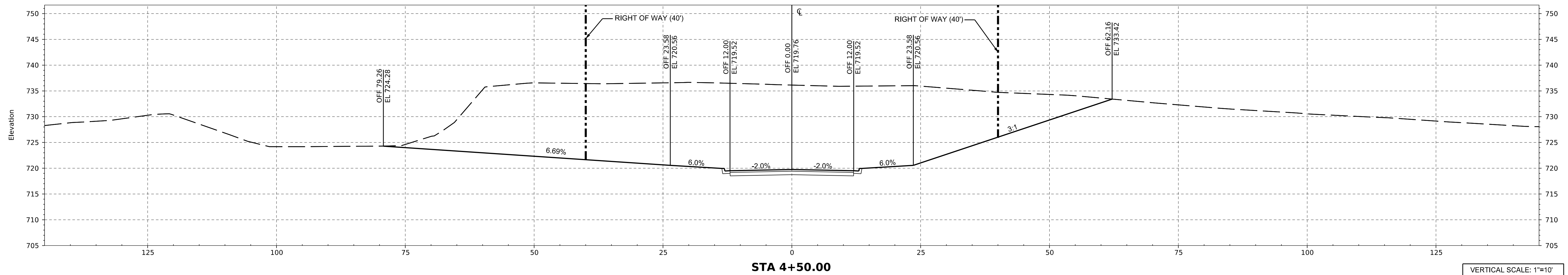
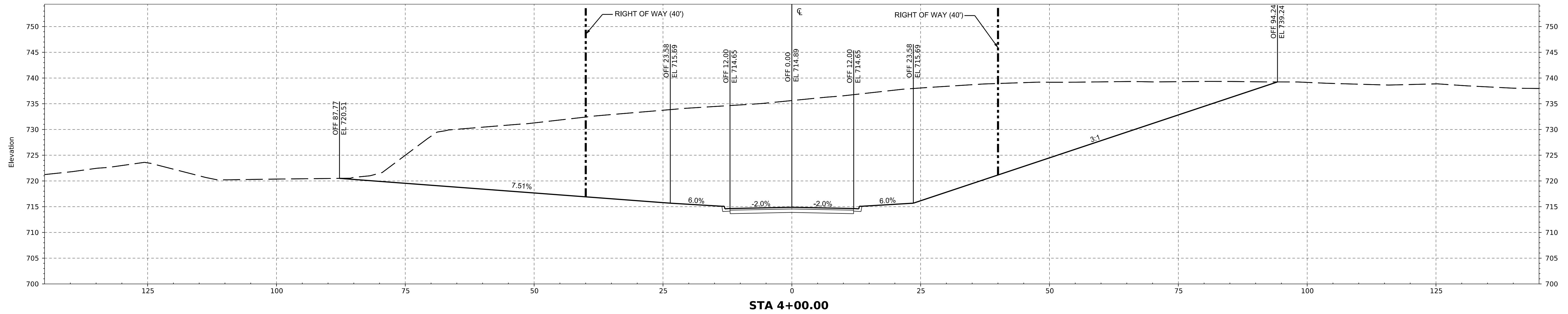
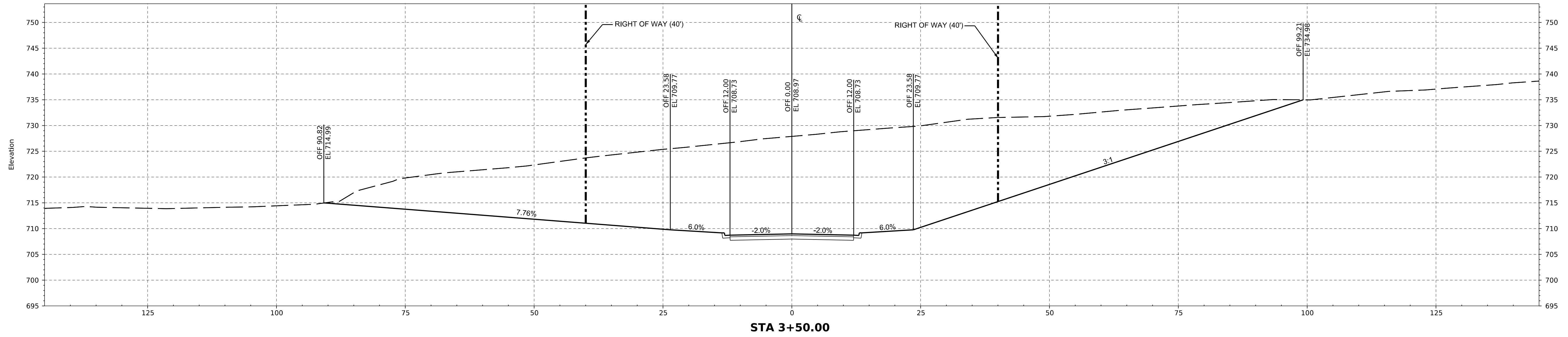
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THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR
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PROJECT NO: USRE0005
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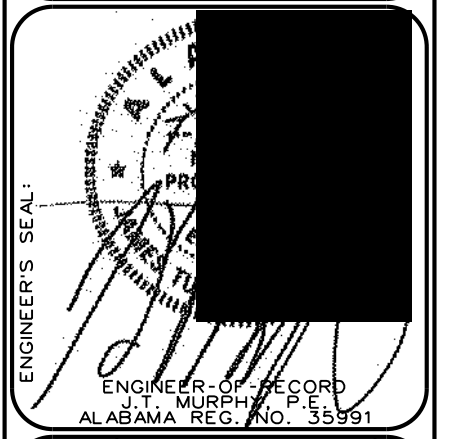
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HORIZONTAL SCALE: 1"=10'

LEGEND

- FINISHED GRADE
- - - EXISTING GROUND

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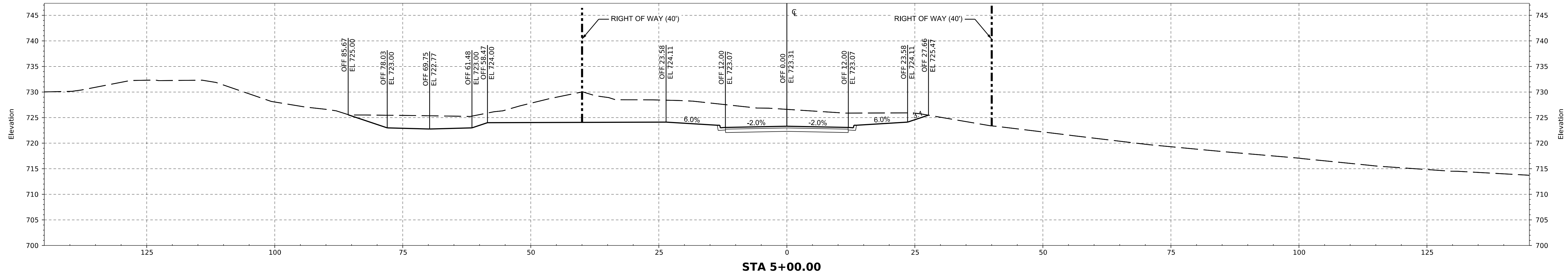
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THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

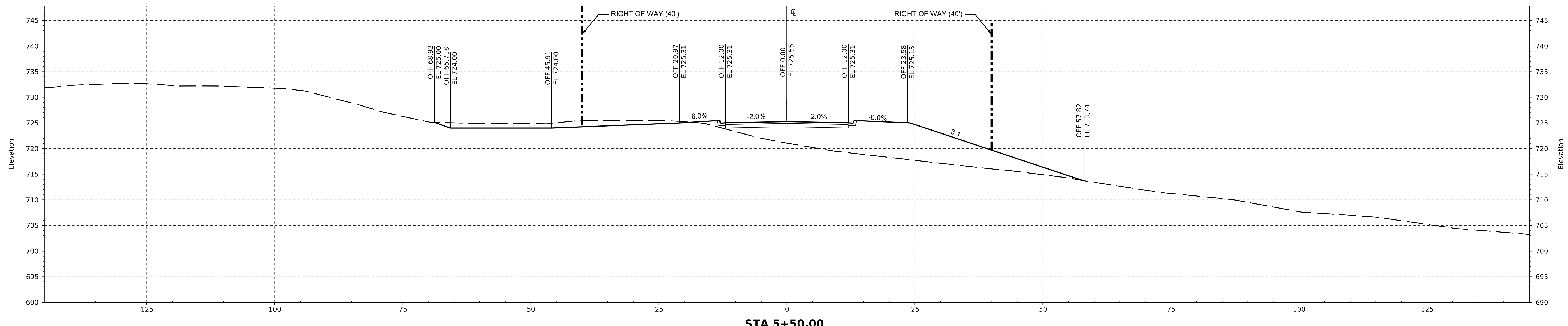
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PROJECT NO: USRE0005
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CHECKED BY: JTM
SCALE: AS NOTED

NO.	DESCRIPTION	BY	DATE
0	ISSUE FOR PERMIT	BAG	07/20/2022

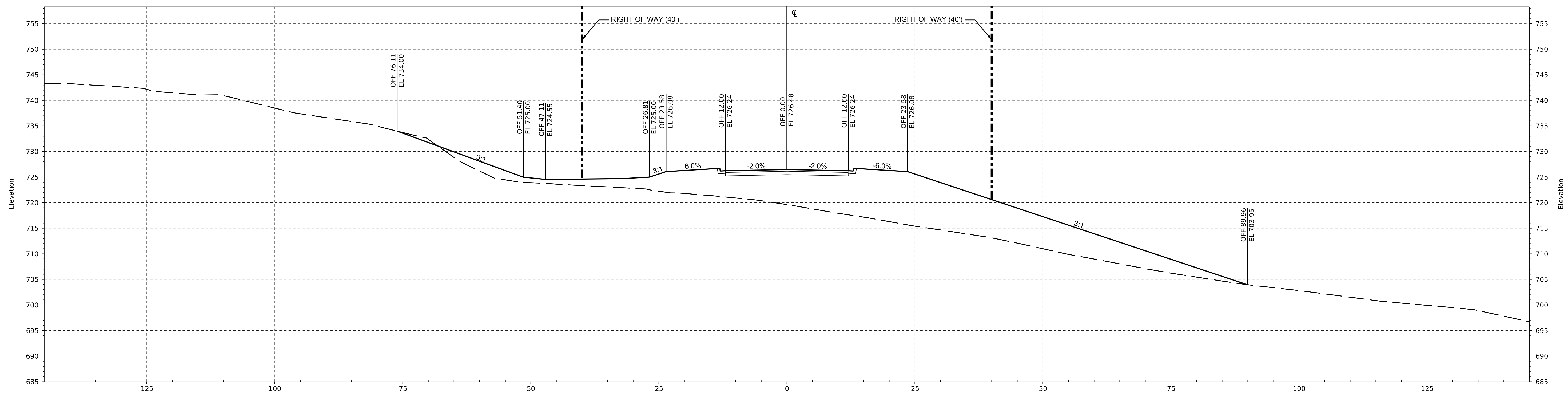
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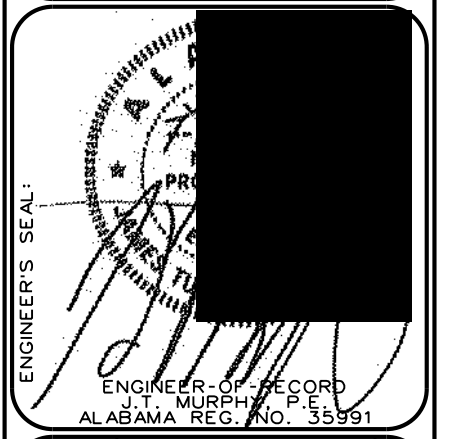
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LEGEND

— FINISHED GRADE
 - - - EXISTING GROUND

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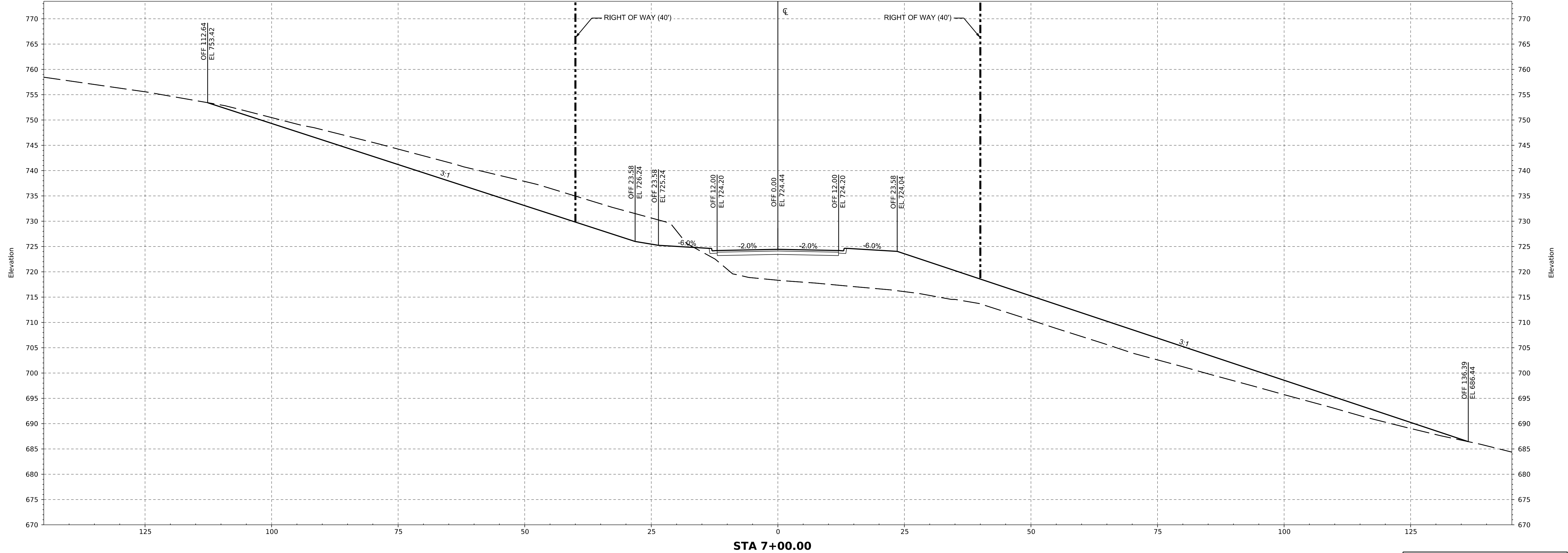
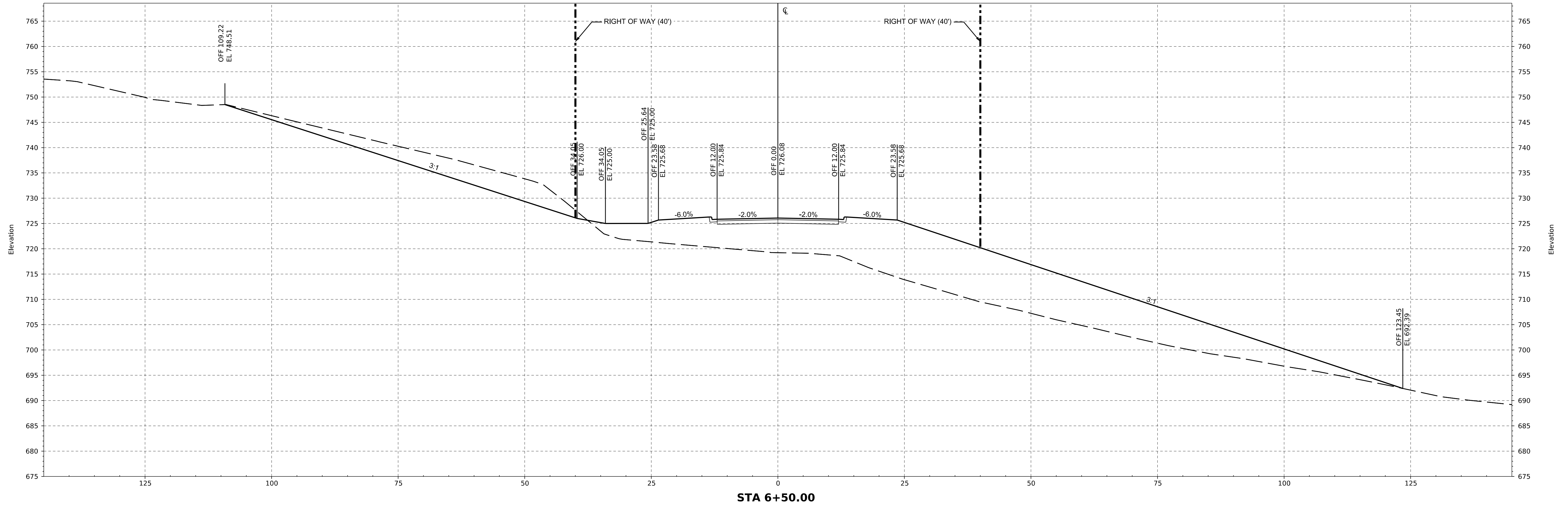
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FILE: STA. 5+00 TO STA. 6+00 CROSS SECTION
 THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR
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NO.	DESCRIPTION	BY	CHECKED BY	REV.	DATE
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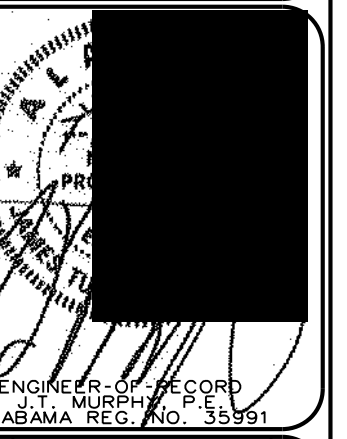
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VERTICAL SCALE: 1"=10'
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LEGEND
 — FINISHED GRADE
 - - - EXISTING GROUND

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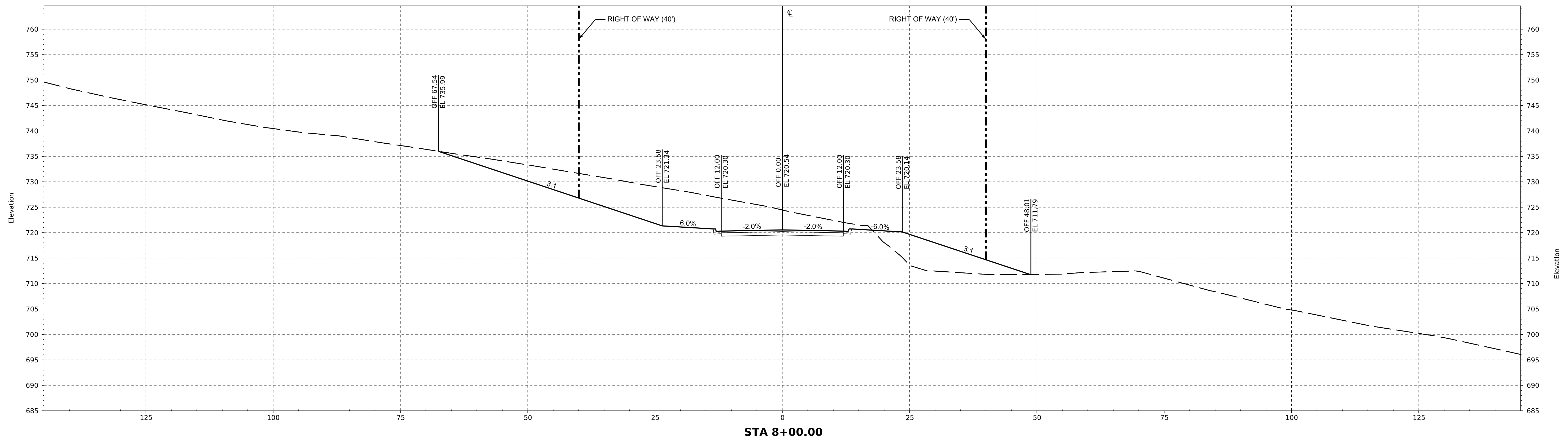
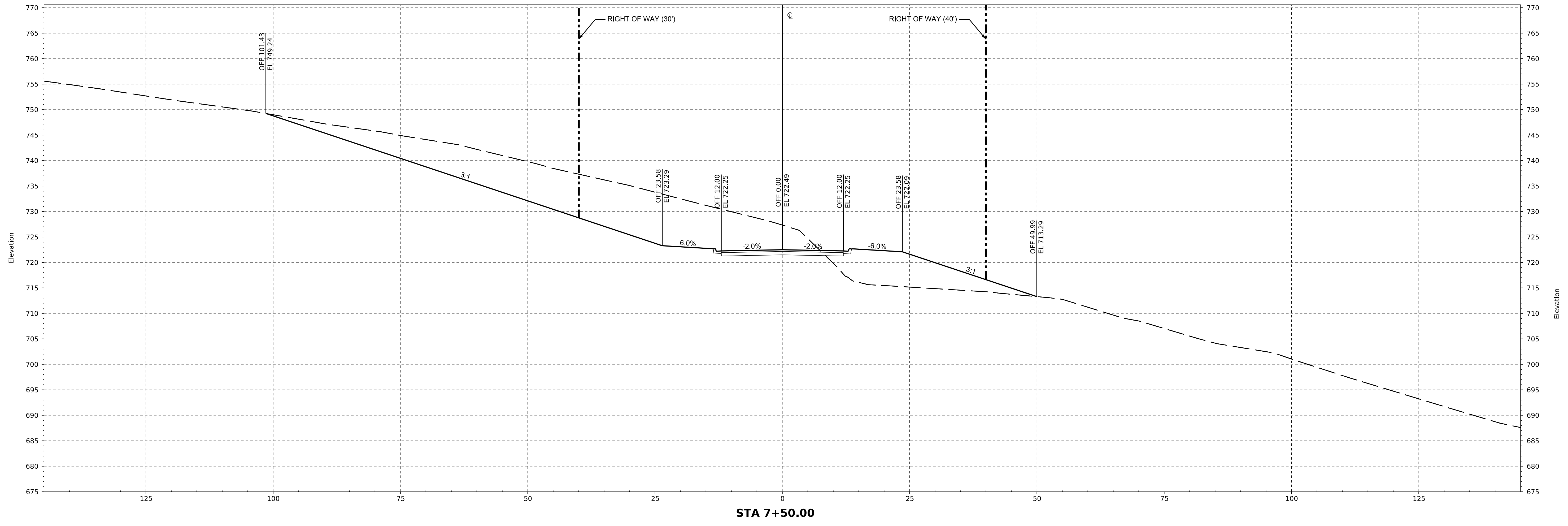
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THE PARCEL 15 PROJECT
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PROJECT NO: USRE0005
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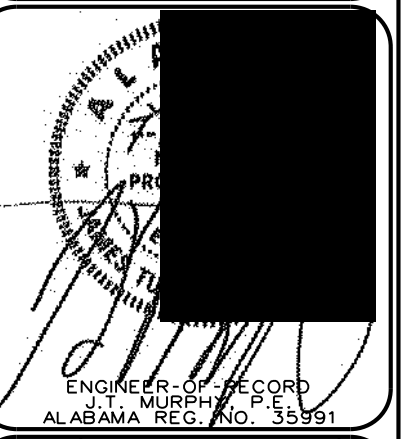
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LEGEND

— FINISHED GRADE
- - - EXISTING GROUND

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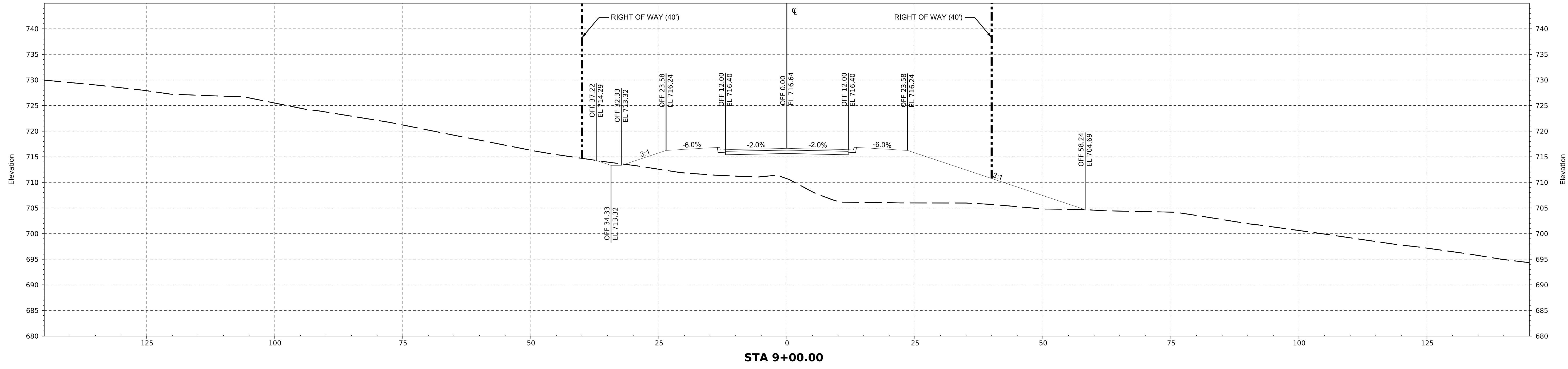
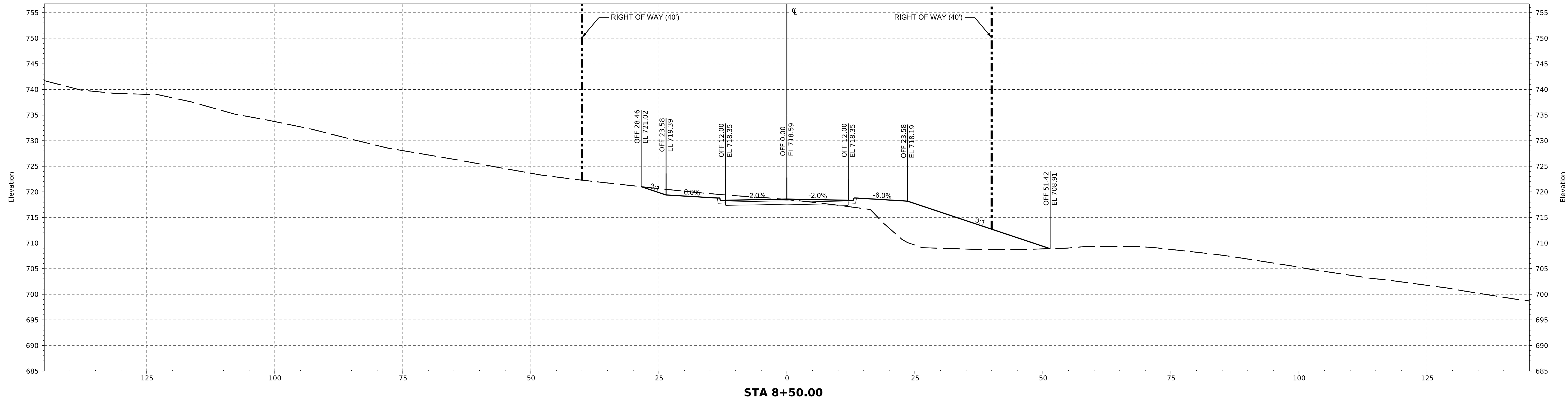
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THE PARCEL 15 PROJECT
LEEDS, ALABAMA
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PROJECT NO: USRE0005
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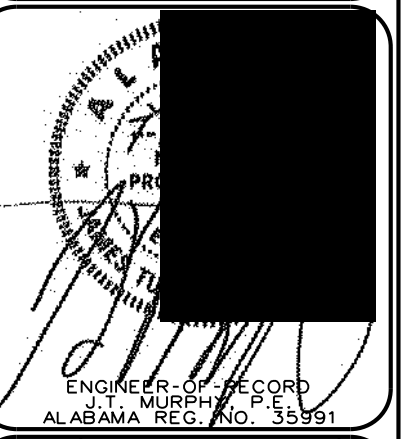
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LEGEND

— FINISHED GRADE
- - - EXISTING GROUND

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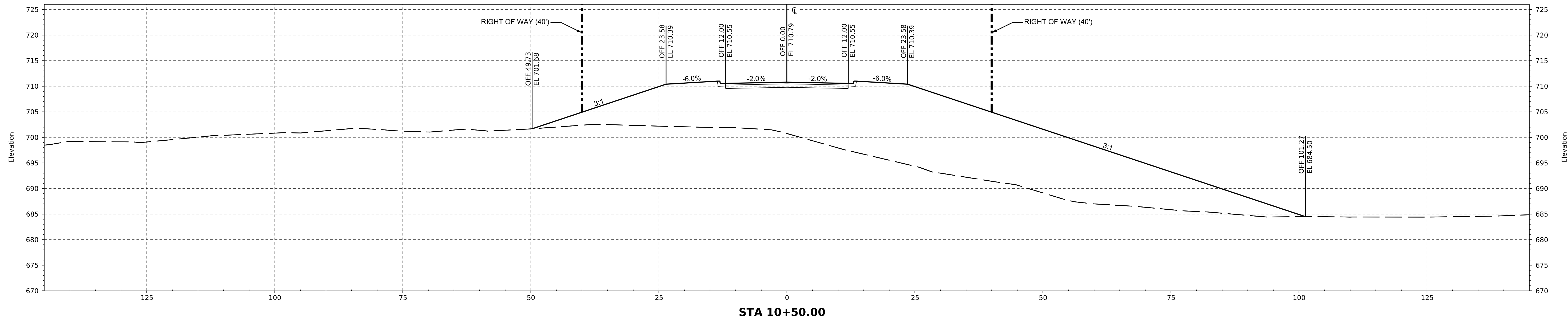
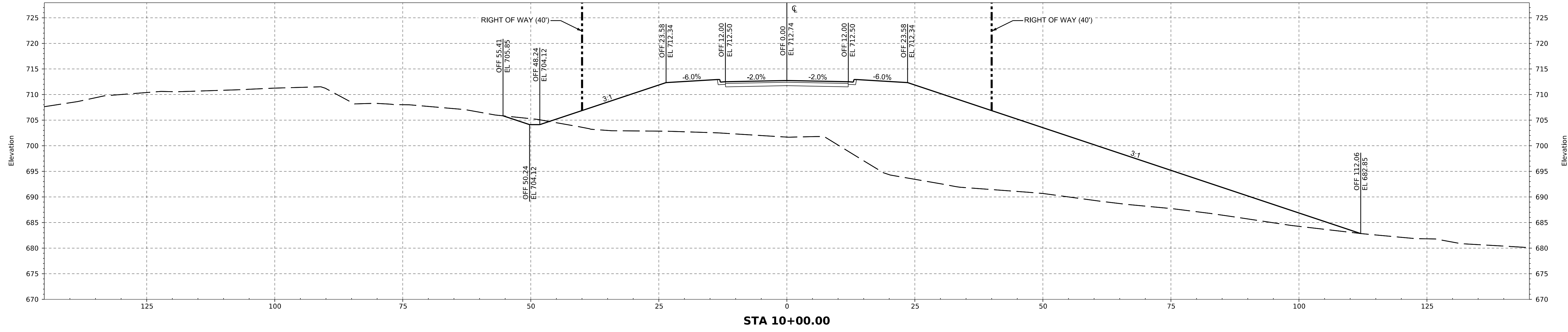
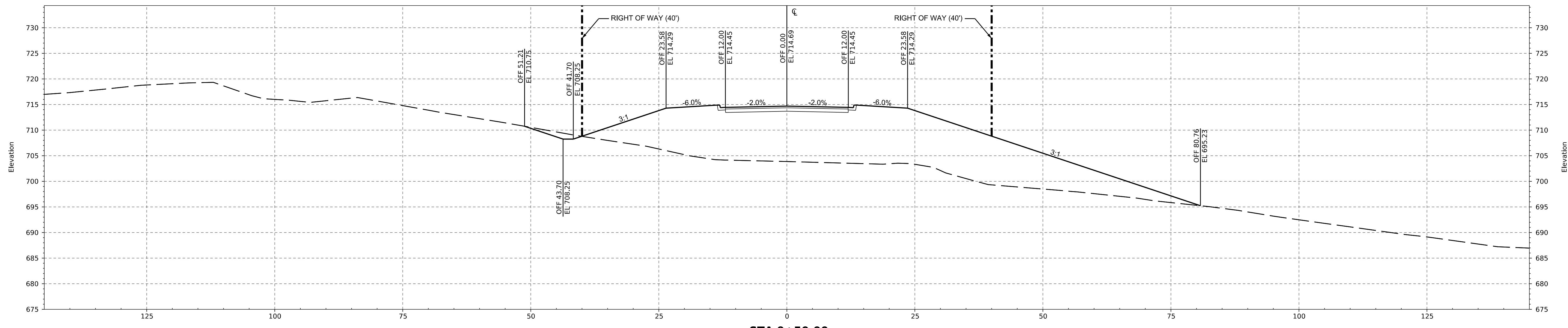
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FILE: STA. 8+50 TO STA. 9+00 CROSS SECTION
THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
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PROJECT USRE0005 DRAWN BY: JTM CHECKED BY: BAG SCALE: AS NOTED

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DRAWING NO. **C-11.06**



VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=10'

LEGEND

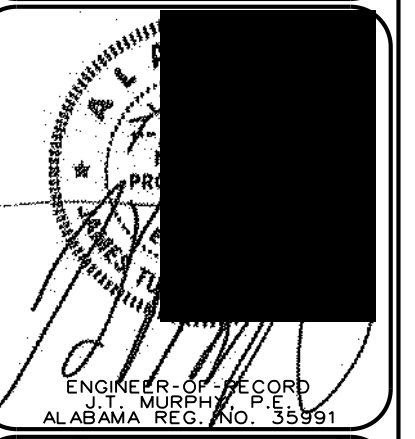
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- - - - - EXISTING GROUND

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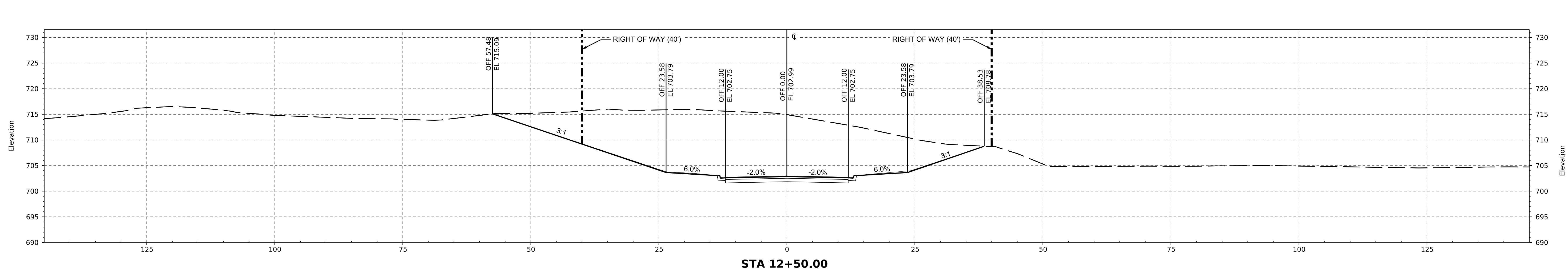
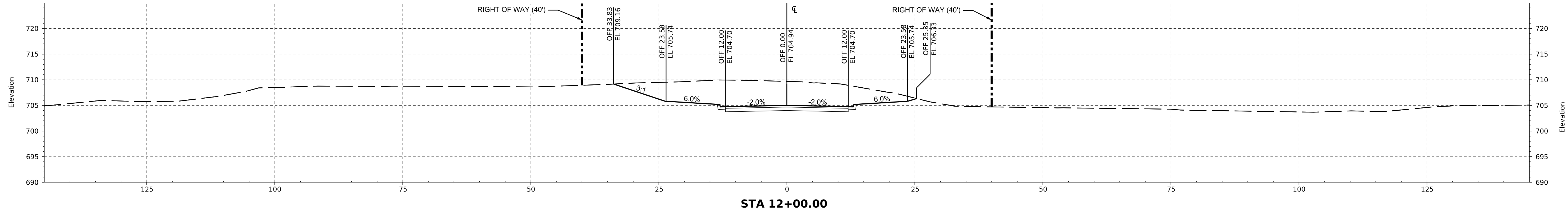
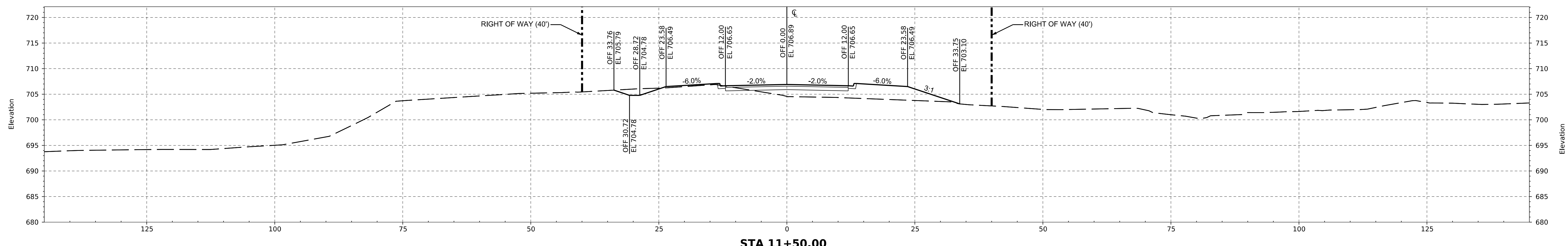
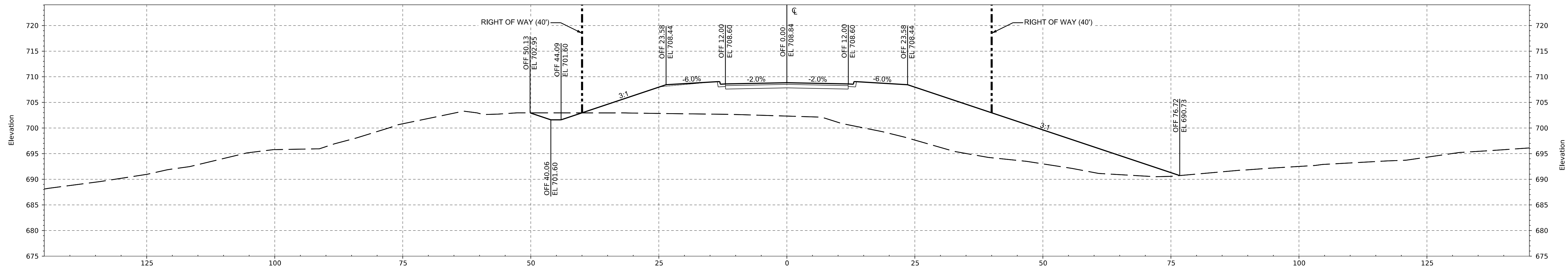
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THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
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PROJECT NO: USRE0005
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HORIZONTAL SCALE: 1"=10'

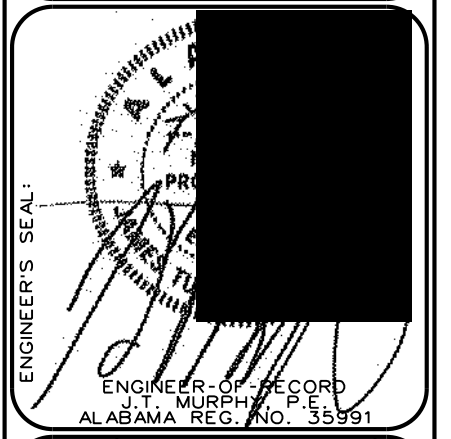
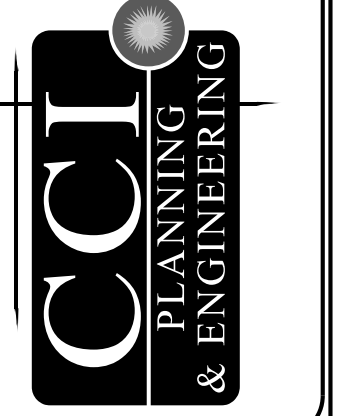
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- - - - - EXISTING GROUND

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STA. 11+00 TO STA. 12+50 CROSS SECTION

THE PARCEL 15 PROJECT
LEEDS, ALABAMA
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PROJECT NO. USRE0005

DATE: 07/20/2022

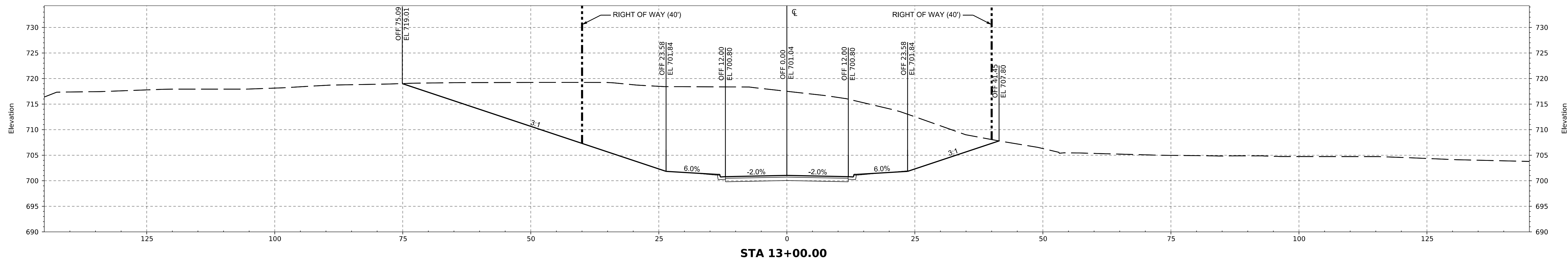
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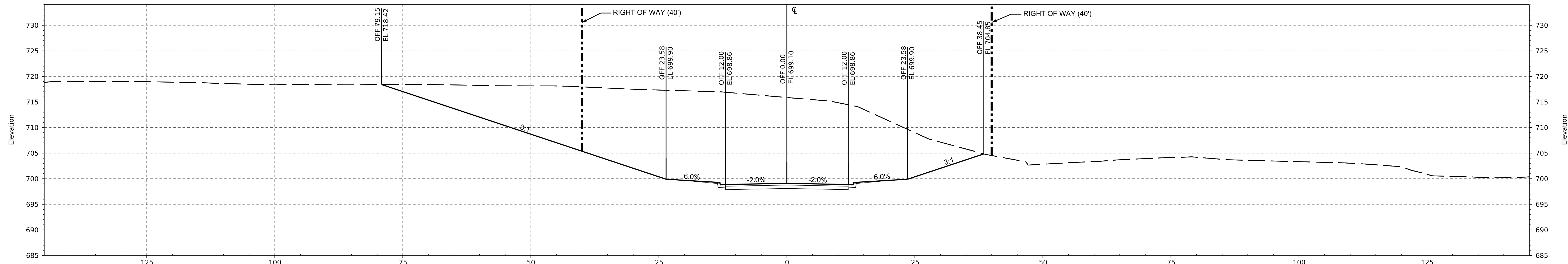
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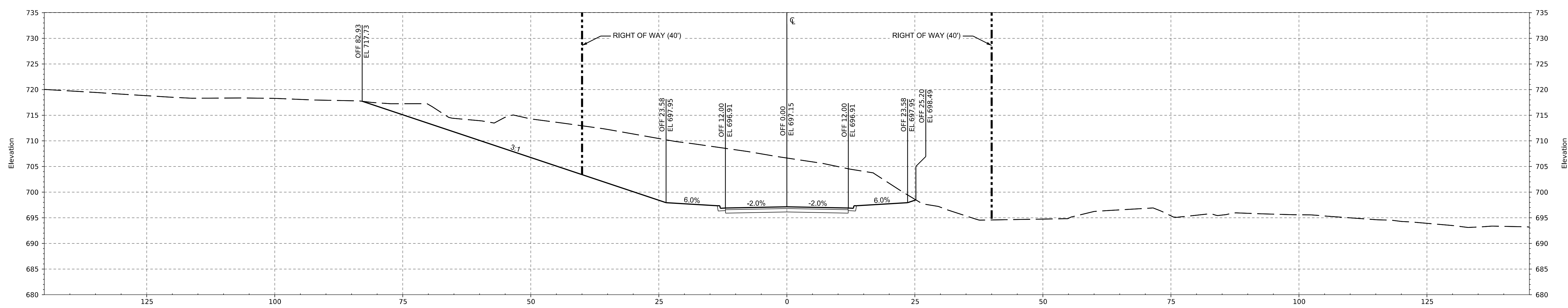
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STA 13+00.00



STA 13+50.00



STA 14+00.00

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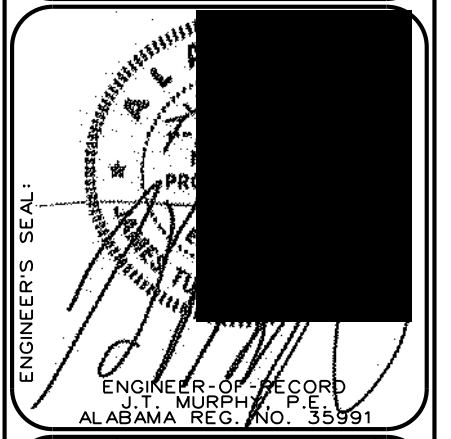
LEGEND

— FINISHED GRADE
- - - EXISTING GROUND

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STA. 13+00 TO STA. 14+00 CROSS SECTION

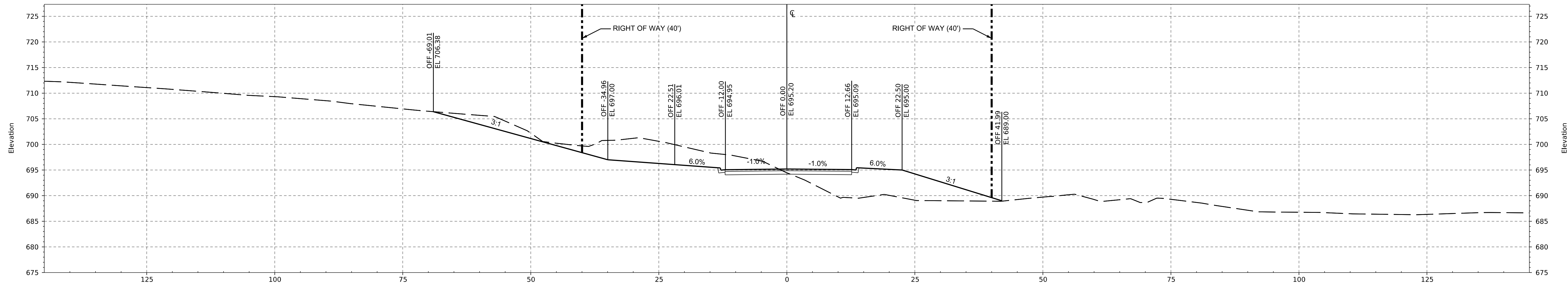
THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT NO: USRE0005
DATE: 07/20/2022
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SCALE: AS NOTED

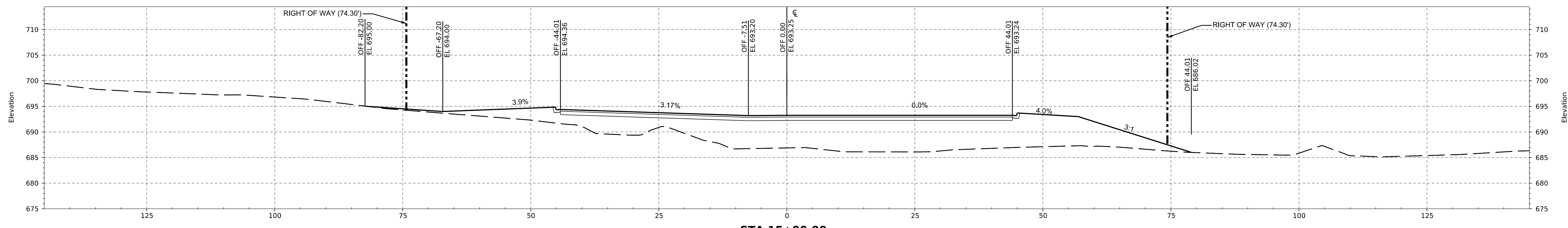
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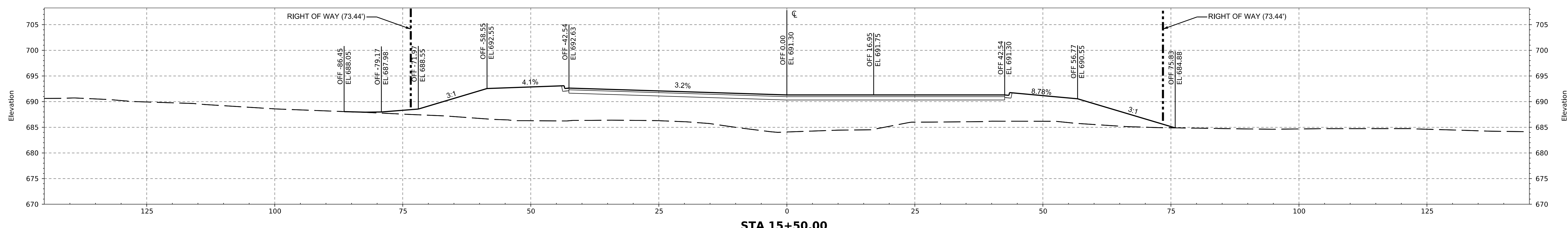
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STA 14+50.00



STA 15+00.00



STA 15+50.00

VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=10'

LEGEND

— FINISHED GRADE
- - - EXISTING GROUND

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FILE: STA. 14+50 TO STA. 15+50 CROSS SECTION

PROJECT: USRE005

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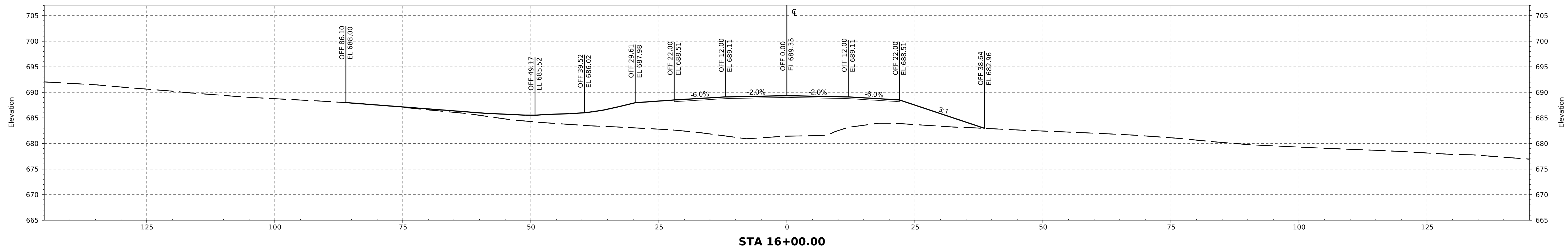
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THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

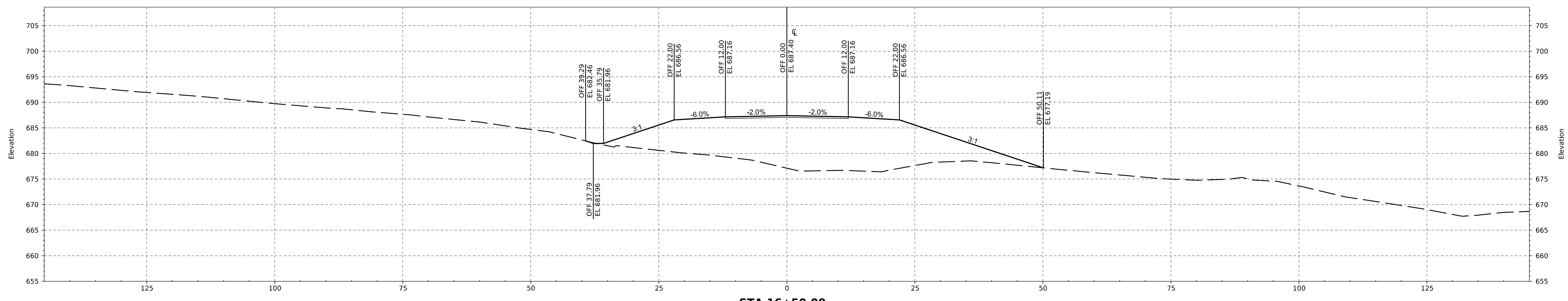
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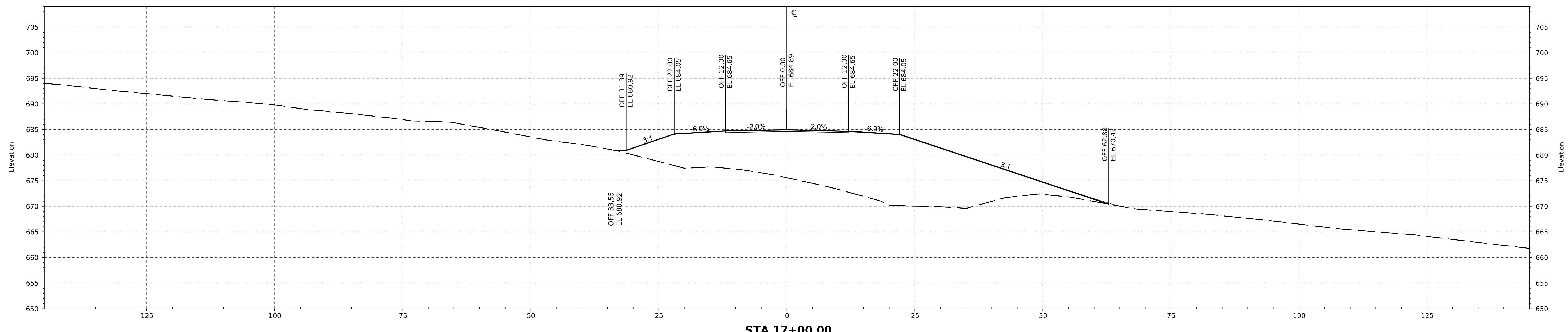
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STA 16+00.00



STA 16+50.00



STA 17+00.00

VERTICAL SCALE: 1"=10'
 HORIZONTAL SCALE: 1"=10'

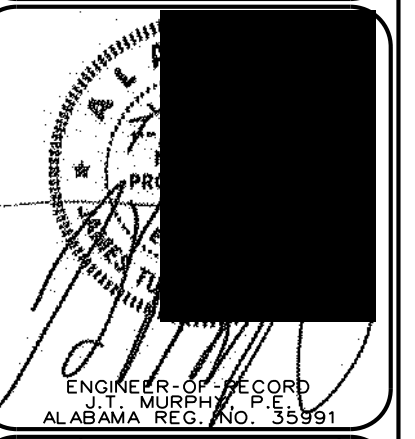
LEGEND

———— FINISHED GRADE
 - - - - - EXISTING GROUND

PRINTED: 1/20/2022 10:01 AM P:\24\USSteel\USRE0005\16_01_C-11_CROSS_SECTION_07.dwg

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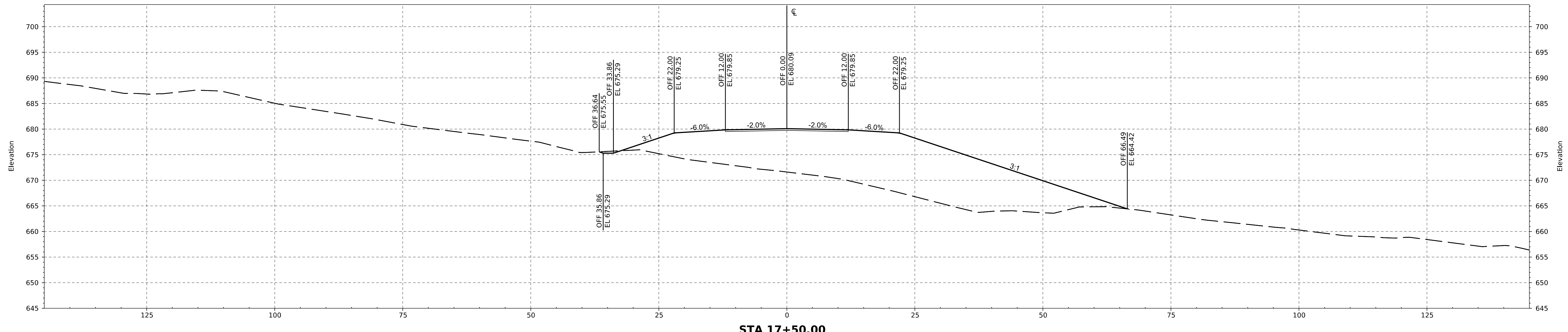
FILE: STA. 16+00 TO STA. 17+00 CROSS SECTION

THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR
 U.S. STEEL CORPORATION

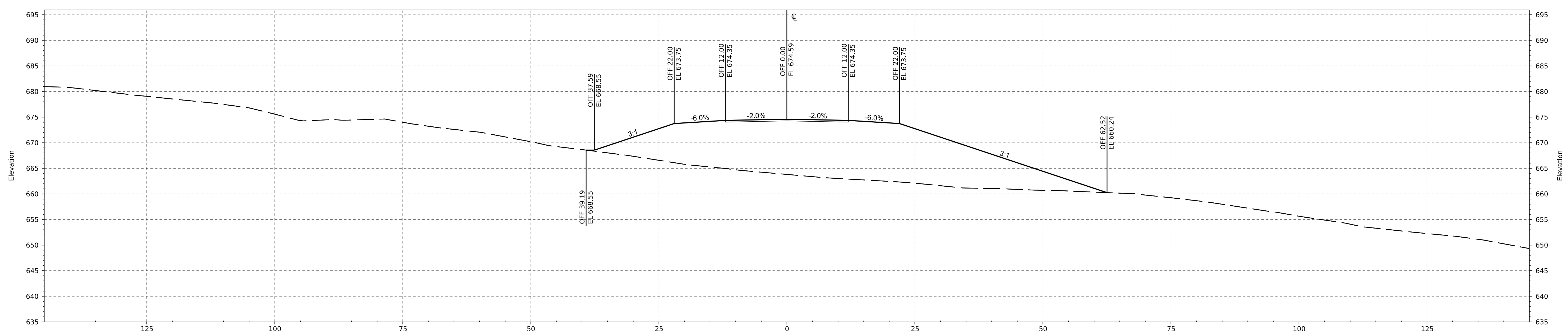
DATE: 07/20/2022 PROJECT NO: USRE0005 DRAWN BY: BAG CHECKED BY: JTM SCALE: AS NOTED

NO.	DESCRIPTION	BY	CHKD BY	REV. DATE
0	ISSUE FOR PERMIT	BAG	JTM	07/20/2022

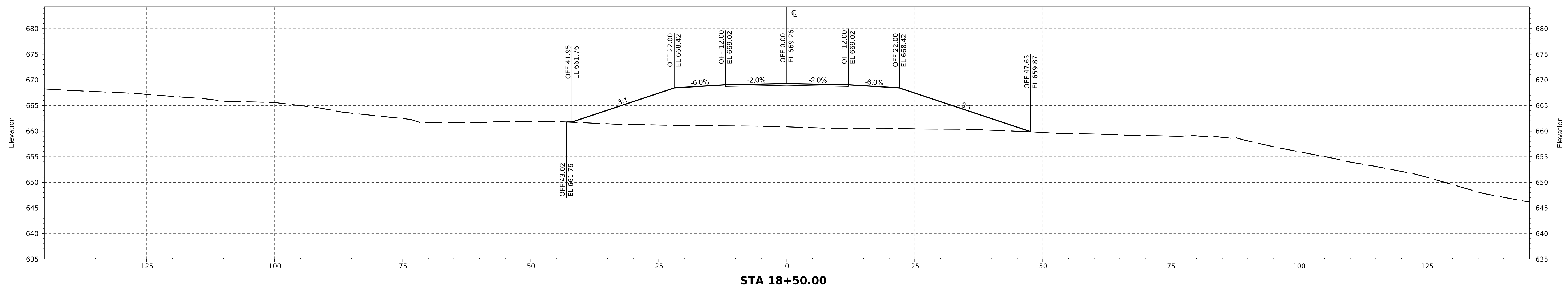
DRAWING NO. C-11.11



STA 17+50.00



STA 18+00.00



STA 18+50.00

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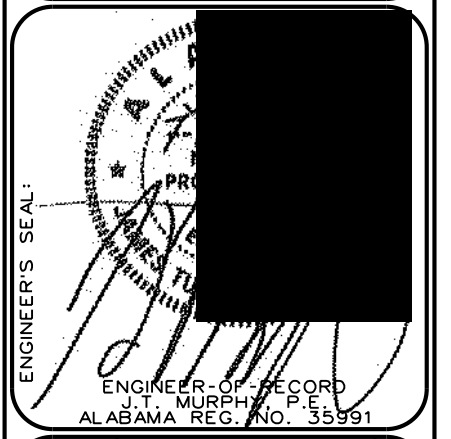
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———— FINISHED GRADE
- - - - - EXISTING GROUND

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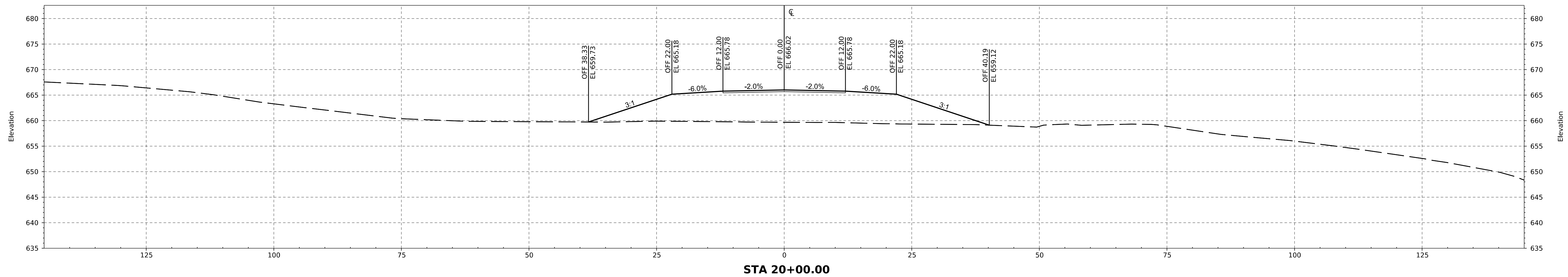
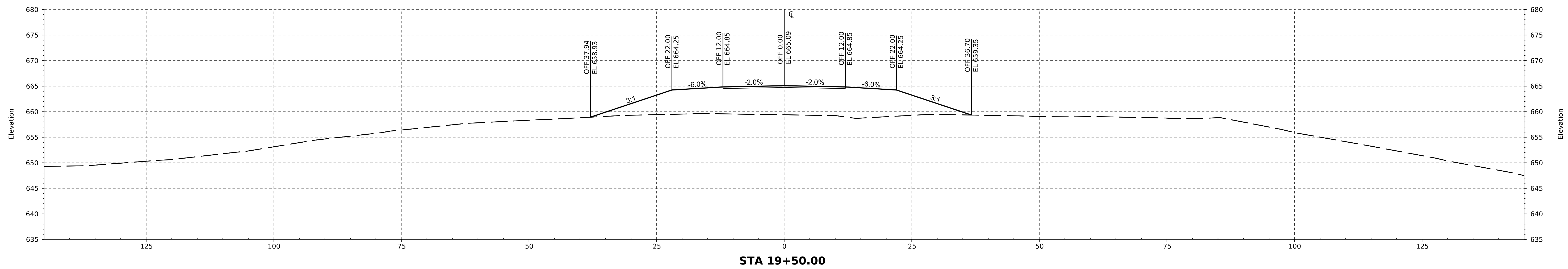
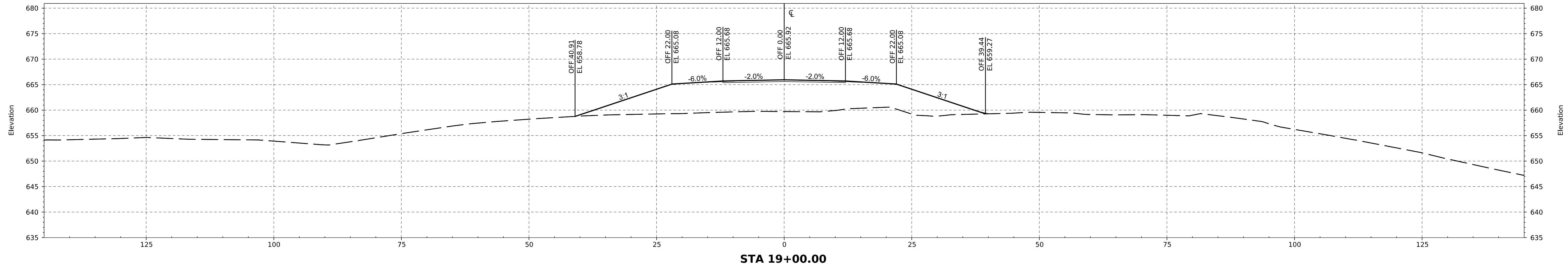
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FILE: STA. 17+50 TO STA. 18+50 CROSS SECTION
THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION
PROJECT USRE005 DRAWN BY: BAG CHECKED BY: JTM SCALE: AS NOTED
DATE: 07/20/2022

NO.	DESCRIPTION	BY	CHECKED BY	REV.	DATE
0	ISSUE FOR PERMIT	BAG	JTM		07/20/2022

DRAWING NO. **C-11.12**

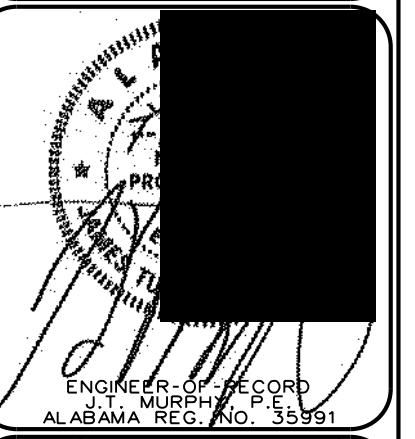
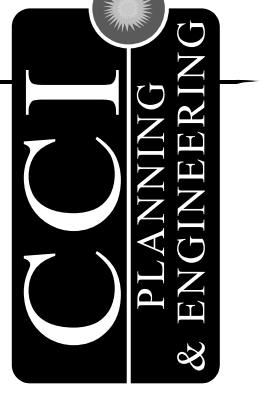


VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=10'

LEGEND	
	FINISHED GRADE
	EXISTING GROUND

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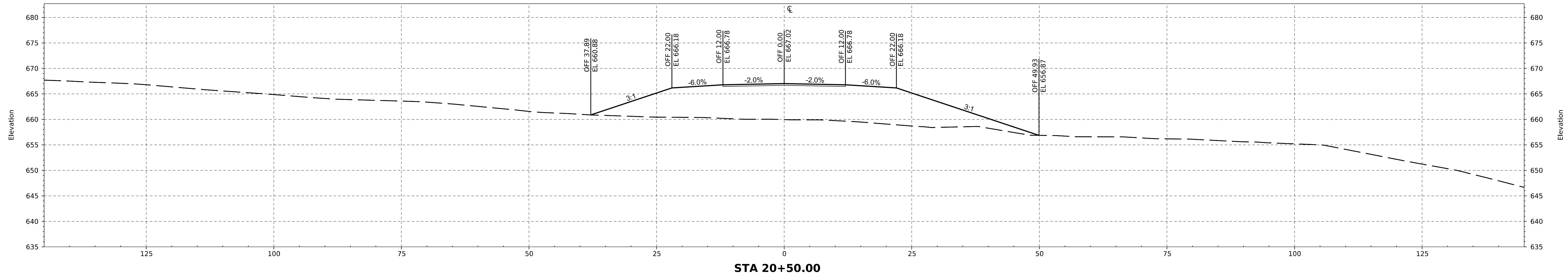
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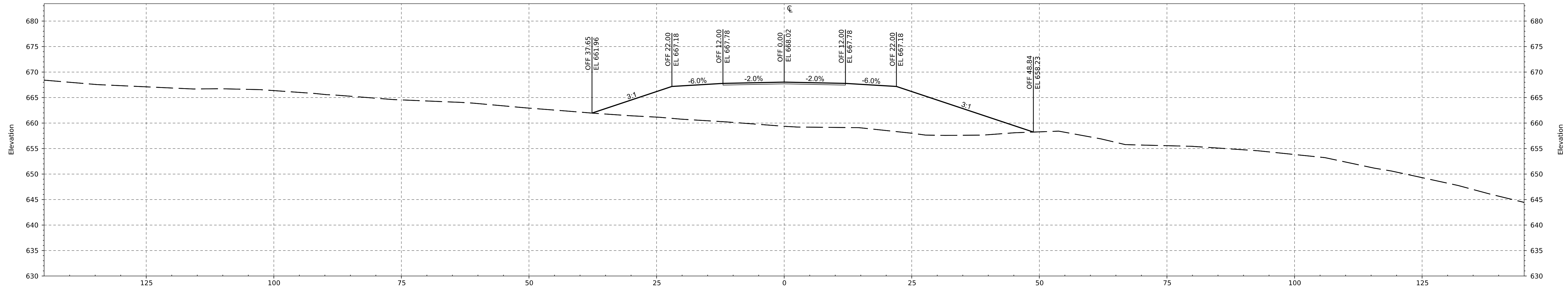
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THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION
PROJECT USRE0005 DRAWN BY: JTM CHECKED BY: JTM SCALE: AS NOTED
DATE: 07/20/2022

NO.	DESCRIPTION	BY	CHKD BY	REV. DATE
0	ISSUE FOR PERMIT	BAG	JTM	07/20/2022

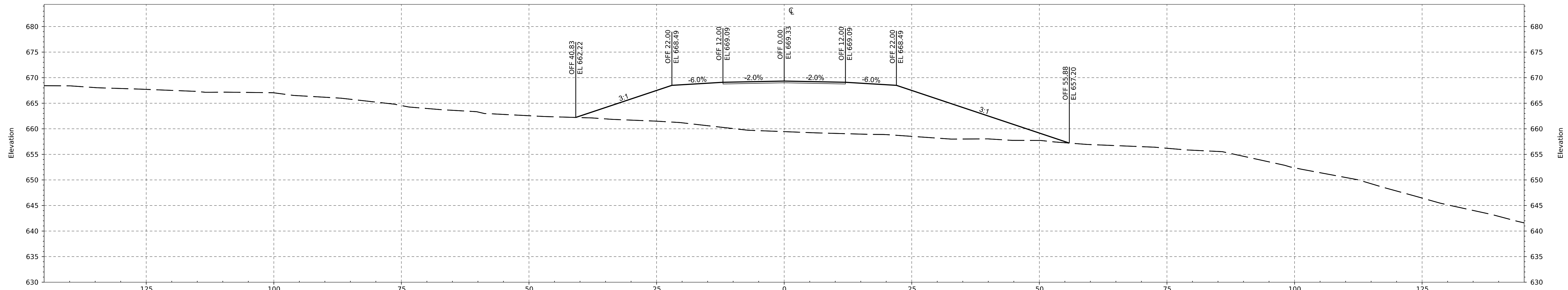
DRAWING NO. C-11.13



STA 20+50.00



STA 21+00.00



STA 21+50.00

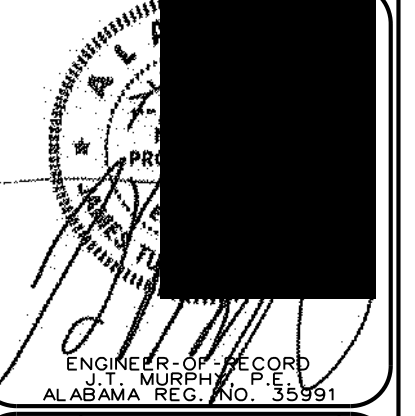
VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=10'

LEGEND

———— FINISHED GRADE

- - - - - EXISTING GROUND

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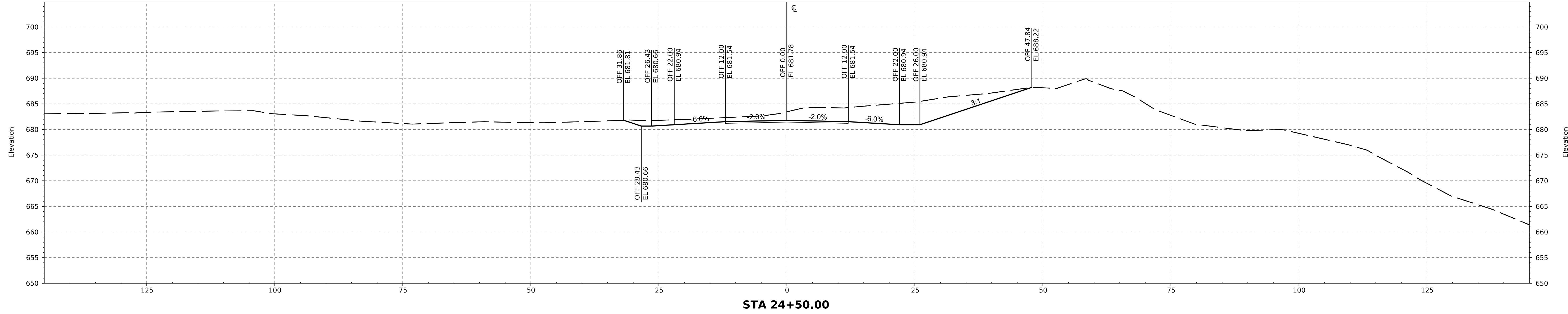
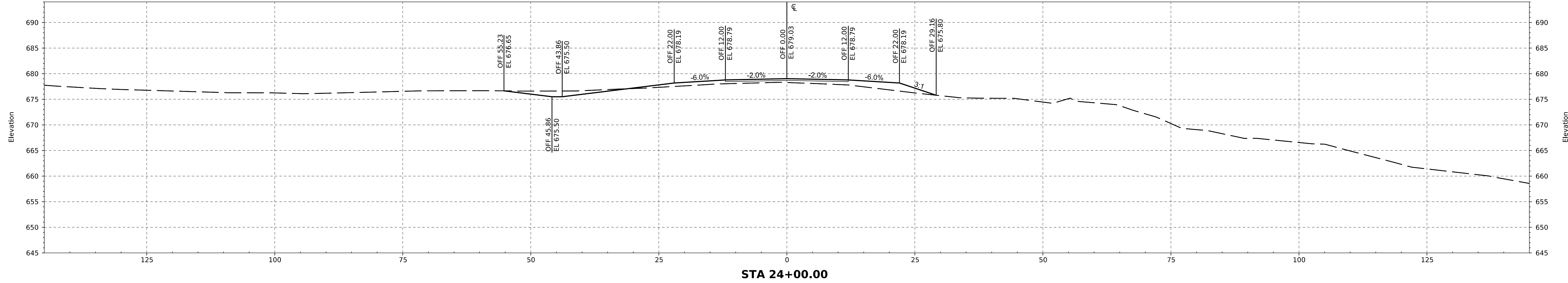
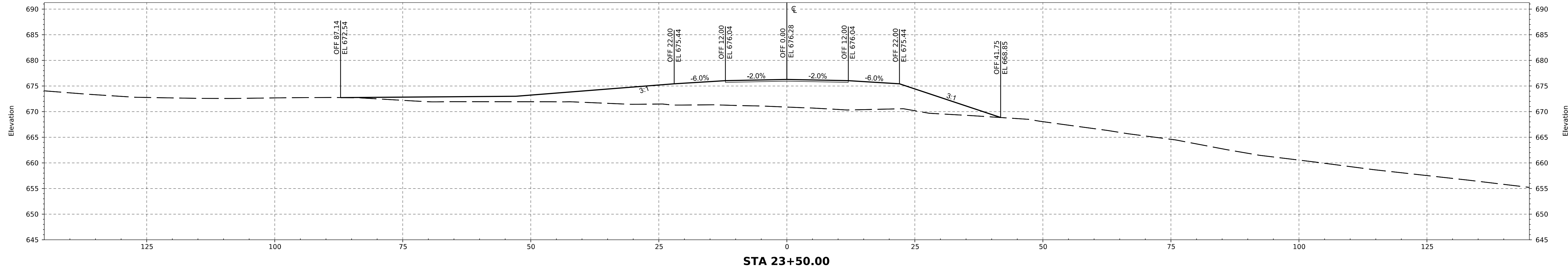
TITLE STA. 20+50 TO STA. 21+50=0 CROSS SECTION

THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT NO. USRE0005
DATE: 07/20/2022
DRAWN BY: BAG
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SCALE: AS NOTED

NO.	DESCRIPTION	BY	CHECKED BY	REV.	DATE
0	ISSUE FOR PERMIT	BAG	JTM		07/20/2022

DRAWING NO. **C-11.14**



VERTICAL SCALE: 1"=10'
 HORIZONTAL SCALE: 1"=10'

LEGEND

———— FINISHED GRADE
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ENGINEER'S SEAL

ENGINEER: MURPHY S. SPURD
 ALABAMA REG. NO. 35991

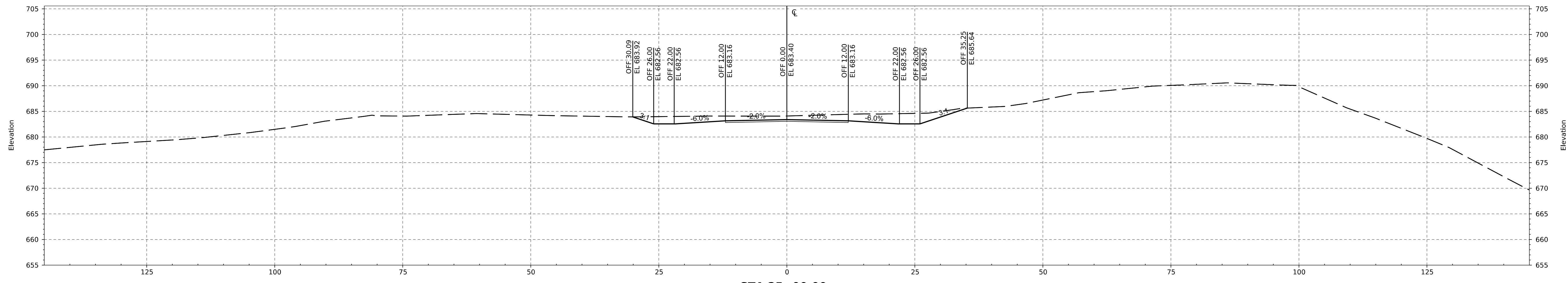
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THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR
 U.S. STEEL CORPORATION

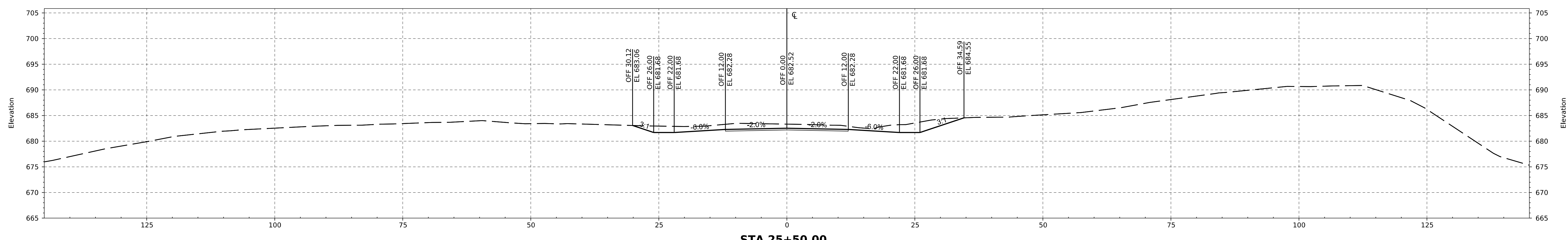
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 DATE: 07/20/2022
 DRAWN BY: BAG
 CHECKED BY: JTM
 SCALE: AS NOTED

NO.	DESCRIPTION	BY	CHKD BY	REV. DATE
0	ISSUE FOR PERMIT	BAG	JTM	07/20/2022

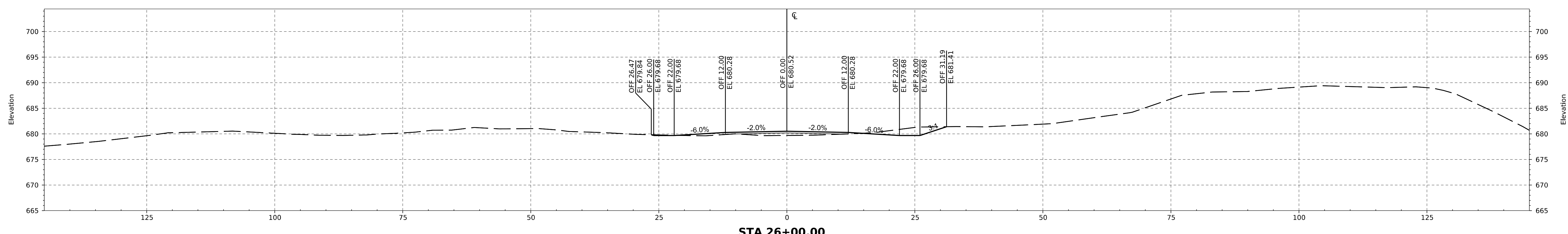
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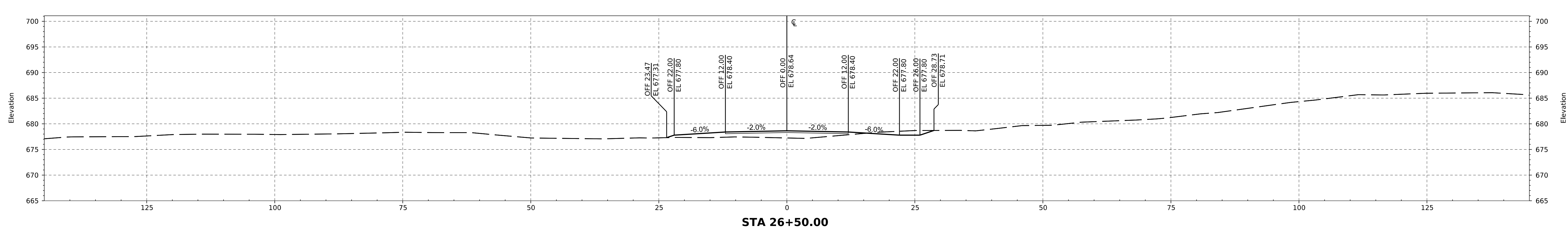
STA 25+00.00



STA 25+50.00



STA 26+00.00



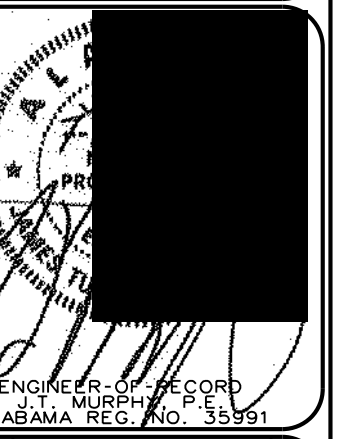
STA 26+50.00

VERTICAL SCALE: 1"=10'
 HORIZONTAL SCALE: 1"=10'

LEGEND

— FINISHED GRADE
 - - - EXISTING GROUND

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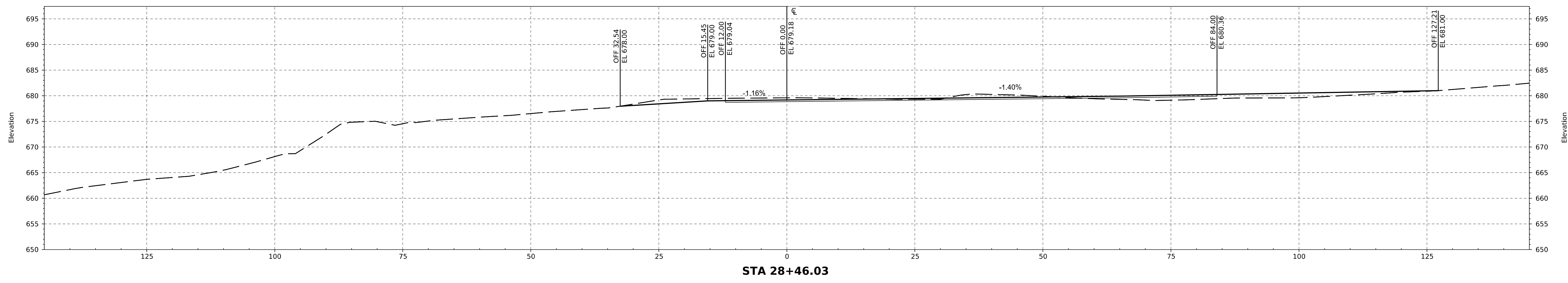
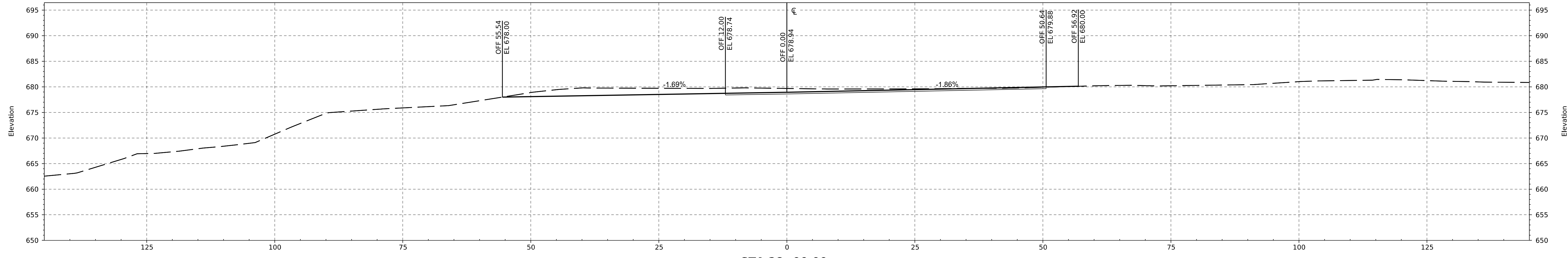
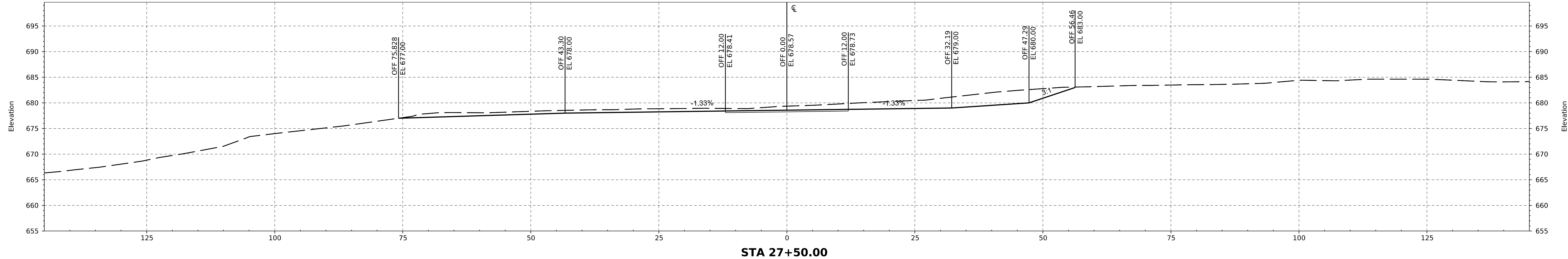
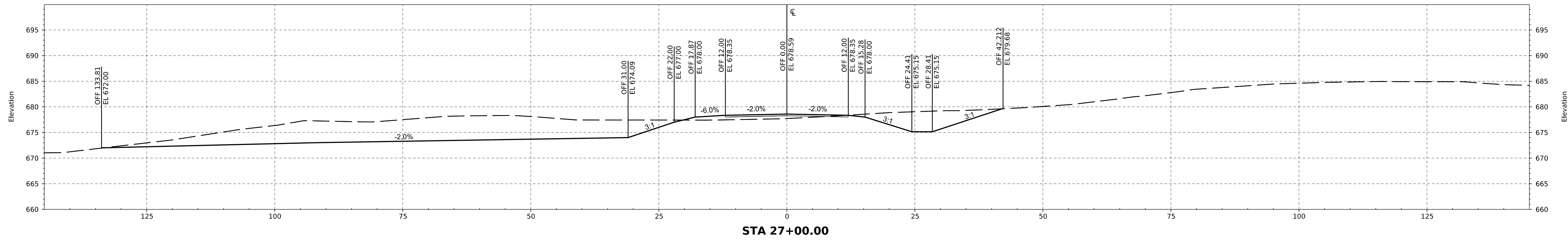
STA. 25+00 TO STA. 26+50 CROSS SECTION

THE PARCEL 15 PROJECT
 LEEDS, ALABAMA
 FOR
 U.S. STEEL CORPORATION

PROJECT NO: USRE0005
 DATE: 07/20/2022
 DRAWN BY: BAG
 CHECKED BY: JTM
 SCALE: AS NOTED

NO.	DESCRIPTION	REVISIONS	BY	DATE
0	ISSUE FOR PERMIT		BAG	07/20/2022

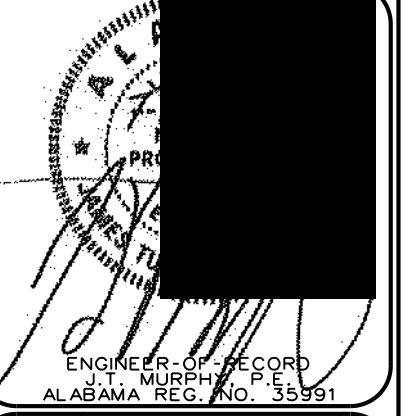
DRAWING NO. **C-11.17**



VERTICAL SCALE: 1"=10'
HORIZONTAL SCALE: 1"=10'

— FINISHED GRADE
- - - EXISTING GROUND

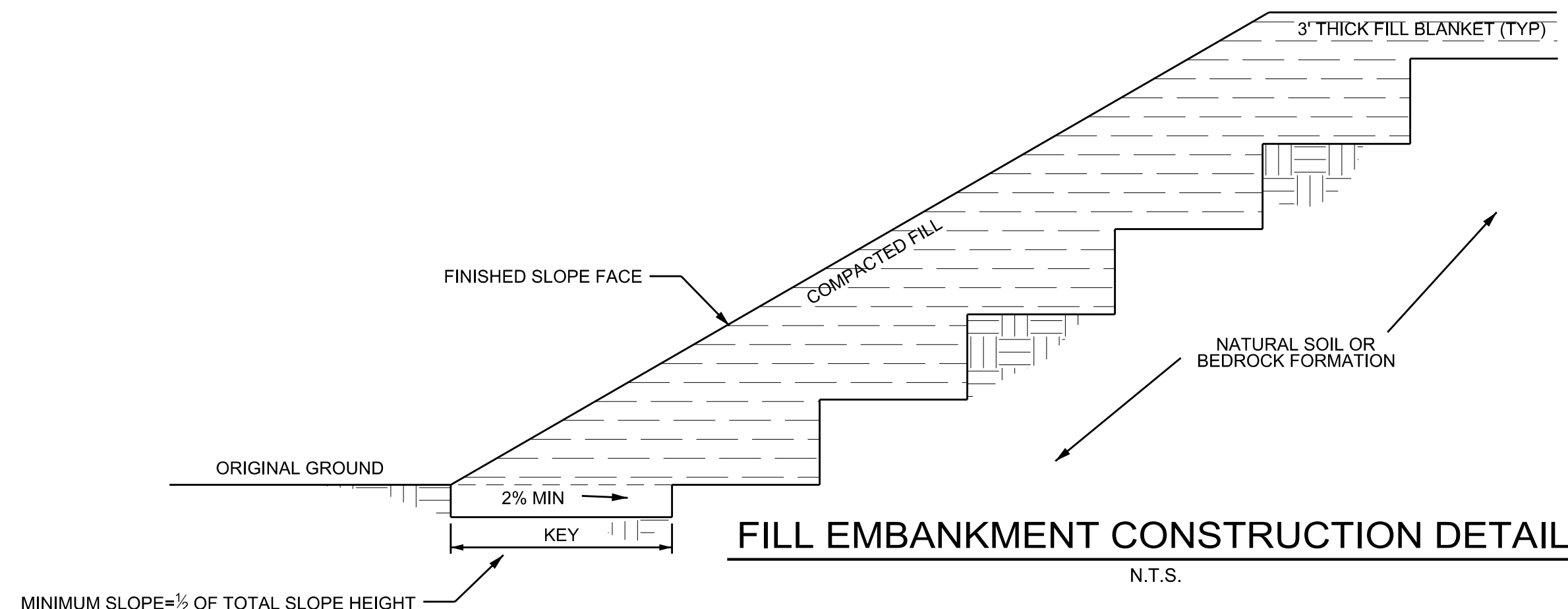
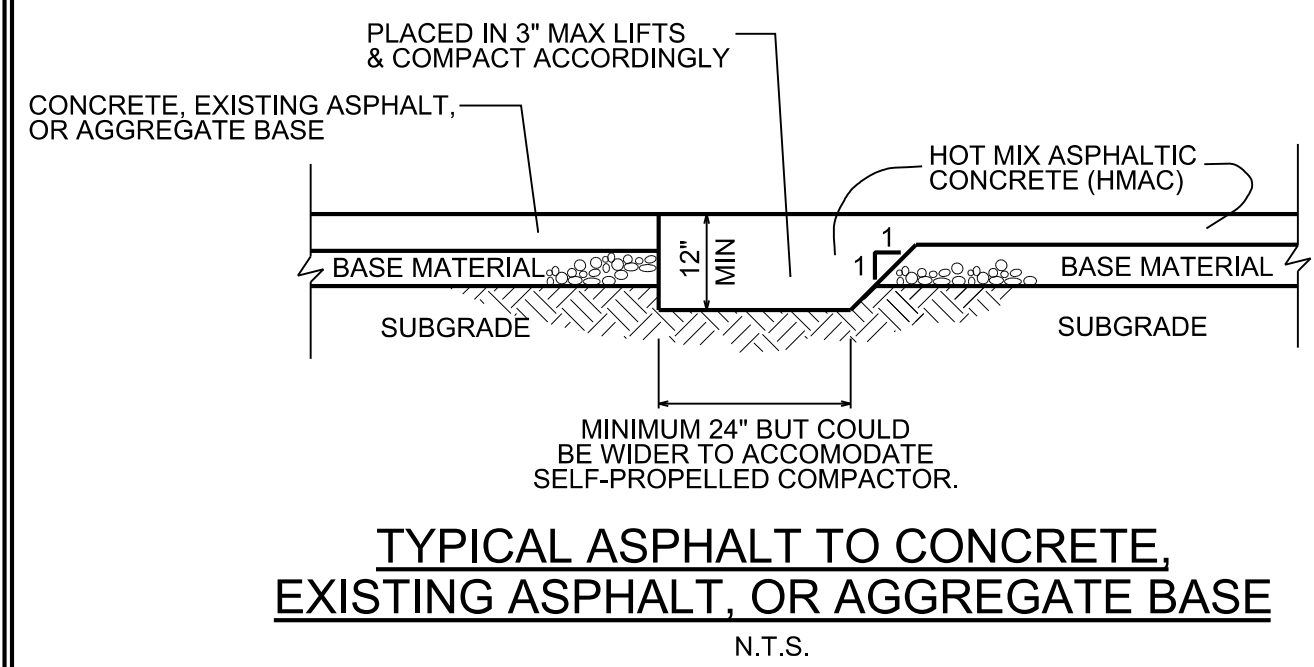
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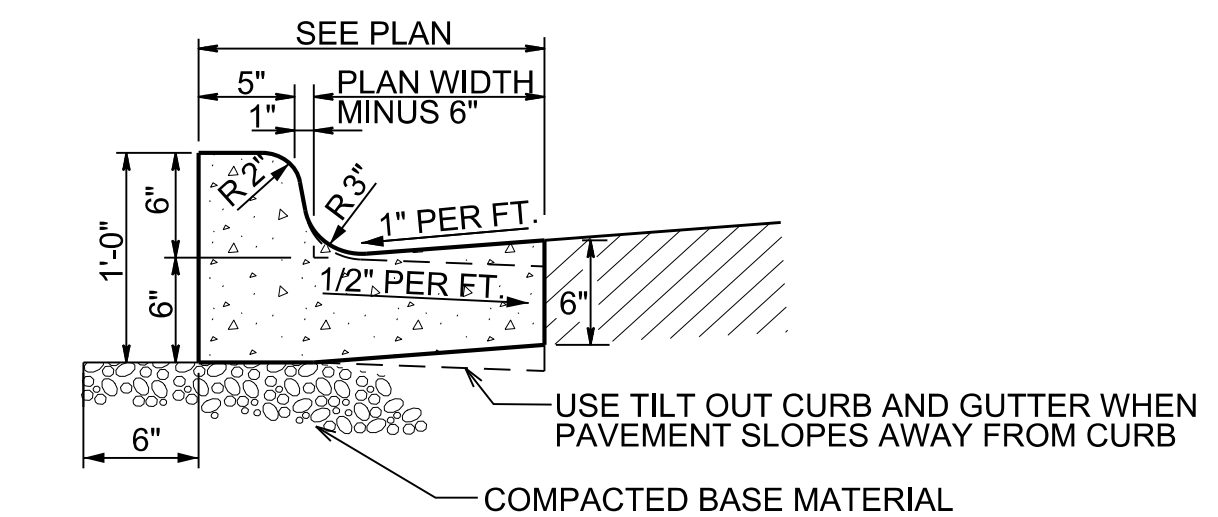
STA. 27+00 TO END CROSS SECTION
THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION
PROJECT USRE0005
DATE 07/20/2022
DRAWN BY BAG
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SCALE AS NOTED

NO.	DESCRIPTION	BY	CHECKED BY	REV.	DATE
0	ISSUE FOR PERMIT	BAG	JTM		07/20/2022

DRAWING NO.
C-11.18



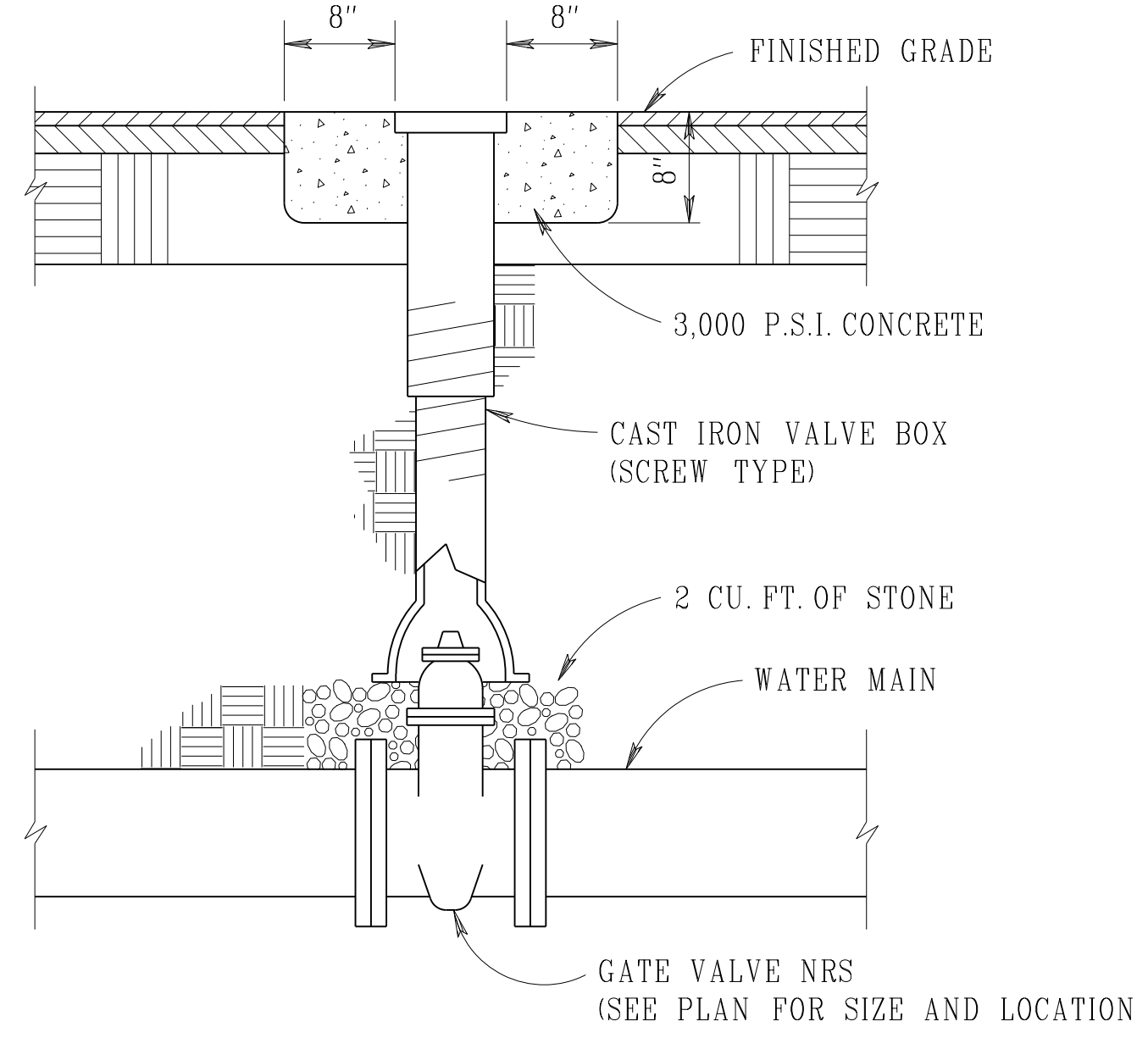
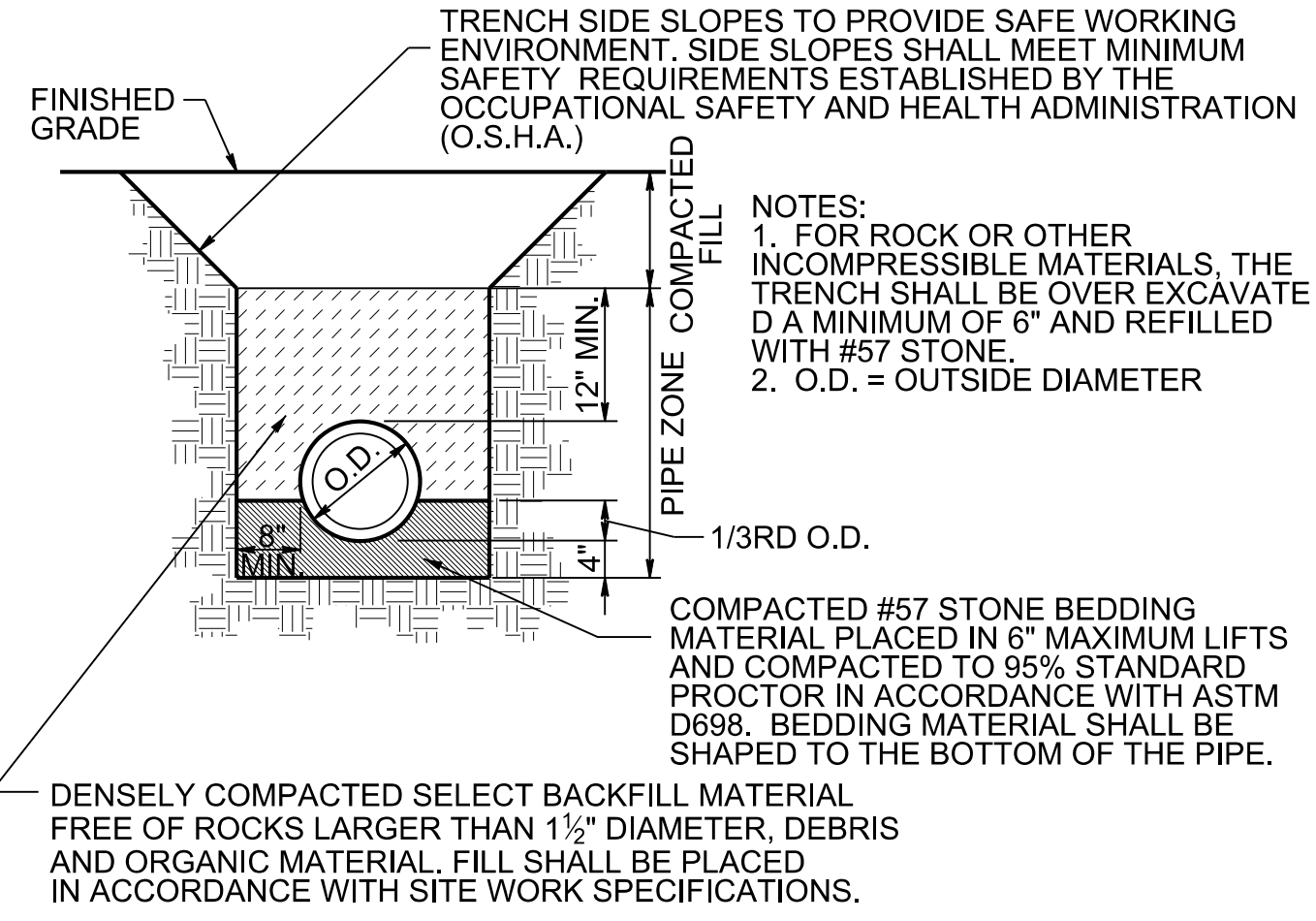
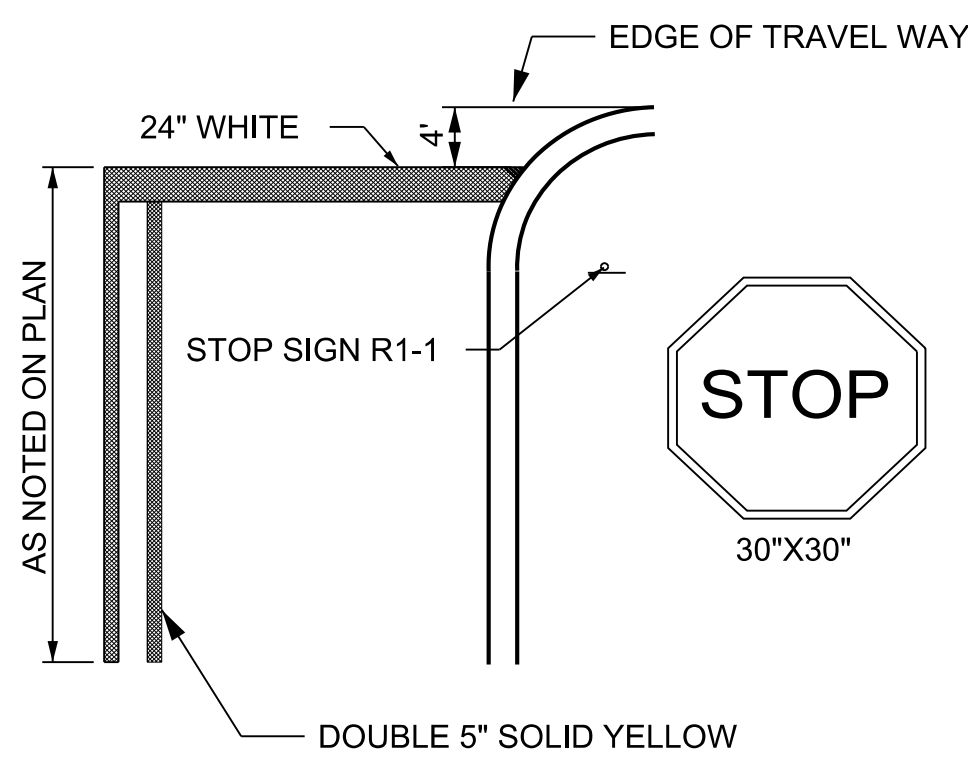
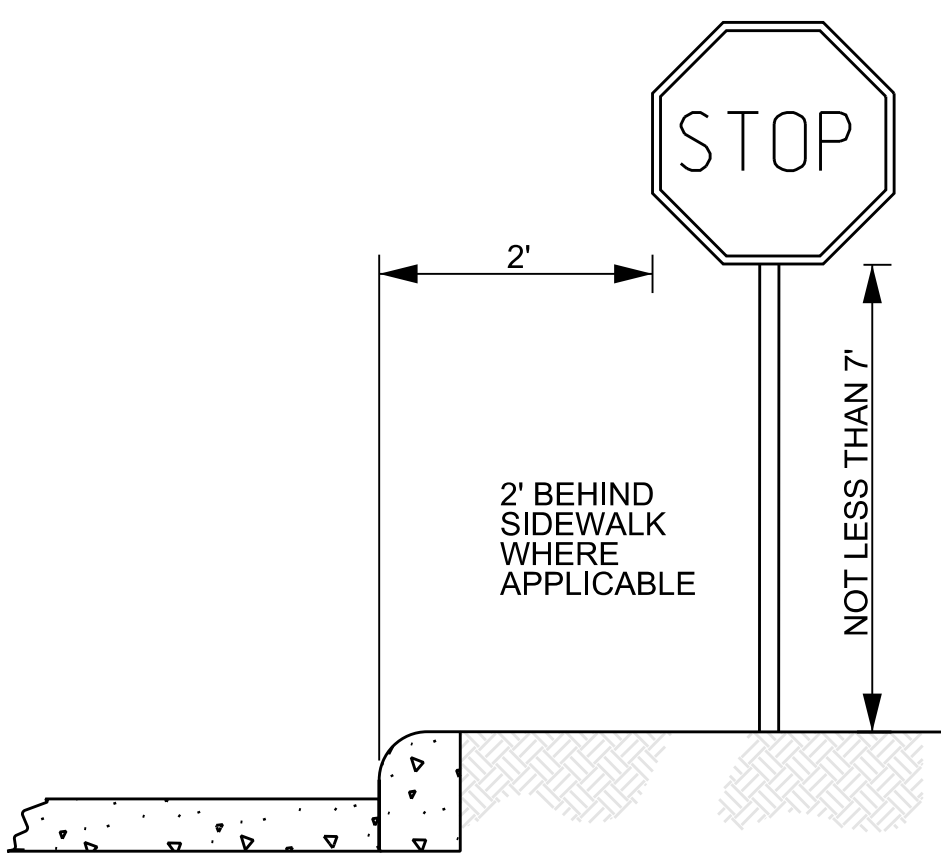
- NOTE:
1. TOP OF SEALANT SHALL BE 1/8" TO 1/16" BELOW TOP OF PAVEMENT.
 2. PROVIDE EXPANSION JOINT AT ALL PAVEMENT/STRUCTURE INTERFACES.
 3. PROVIDE THICKENED EDGE AT ALL DRIVE IN LOCATIONS.



- NOTES:
1. CONCRETE SHALL HAVE BREAKING STRENGTH OF 3500 P.S.I. AFTER 28 DAYS.
 2. EXPANSION JOINTS SHALL BE PROVIDED AT:
 - EACH POINT OF TANGENCY.
 - EACH COLD JOINT.
 - EACH SIDE OF INLET STRUCTURES.
 - EACH END OF DRIVEWAYS.
 - EVERY 50' O/C
 MATERIAL SHALL BE PRE-MOLDED, ASPHALTIC IMPREGNATED, NON-EXTRUDING, WITH A THICKNESS OF 1/2 INCH.
 3. CONTRACTION JOINTS SHALL BE PROVIDED EVERY 15' O/C. JOINTS SHALL BE 1/4 INCH WIDE AND AT LEAST 1 1/2 INCHES DEEP.
 4. COMPACTED BASE SHALL BE A MINIMUM OF 6 INCHES THICK AND SHALL EXTEND 6 INCHES BEHIND BACK OF CURB.

CONCRETE CURB AND GUTTER

N.T.S.



STEEL CASING SHALL EXTEND BEYOND EITHER SIDE (PER UTILITY REQ.) OF PAVEMENT OR AS DIMENSIONED ON PLAN. BITUMINOUS COATED INSIDE AND OUTSIDE. SEAL ENDS WITH RUBBER BOOT & STRAPS.

CARRIER PIPE SIZE	STEEL CASING	MINIMUM WALL THICKNESS
4"	12"	.188"
6"	14"	.250"
8"	16"	.250"
10"	18"	.250"
12"	20"	.250"
14"	24"	.250"
16"	24"	.250"
18"	30"	.250"
20"	30"	.250"
24"	36"	.250"

SECTION

STEEL CASING (SEE TABLE FOR SIZE)

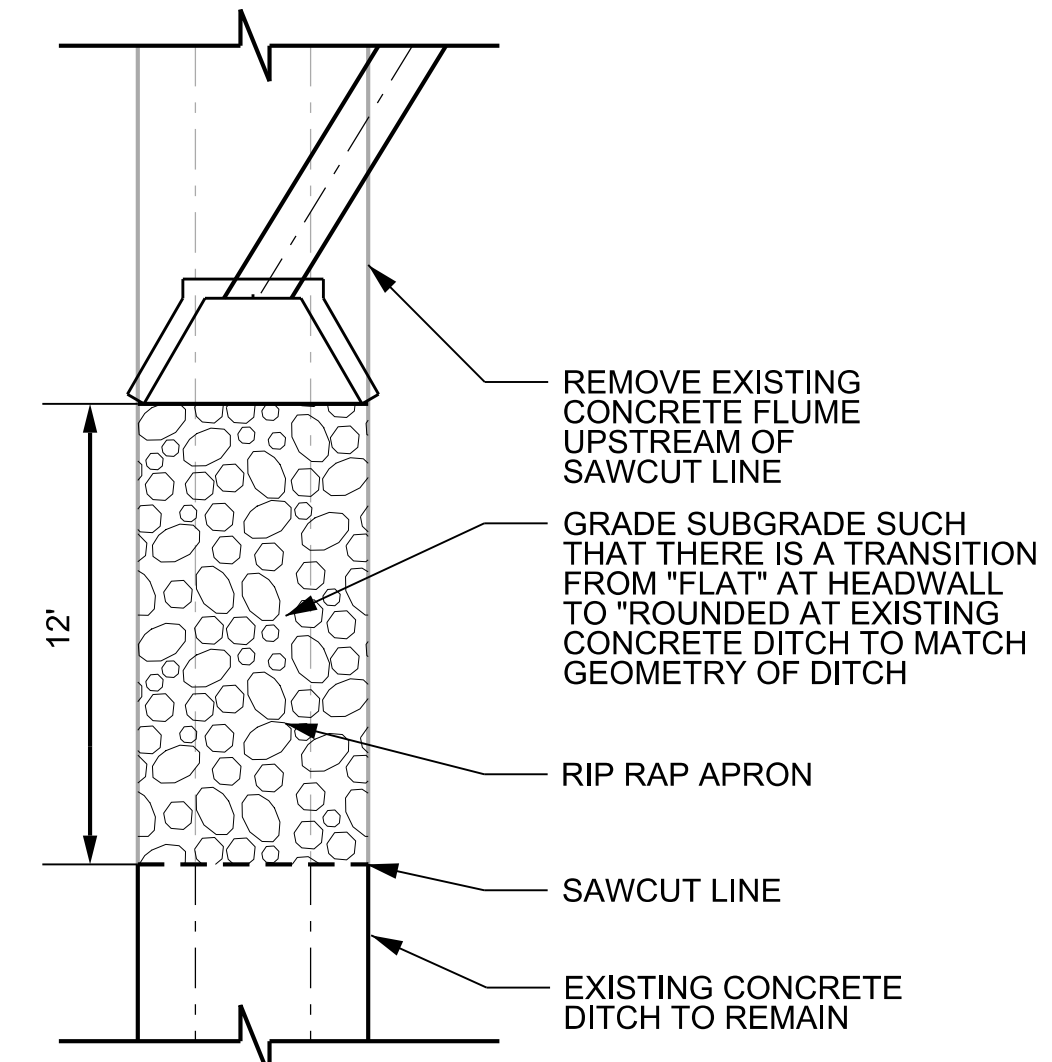
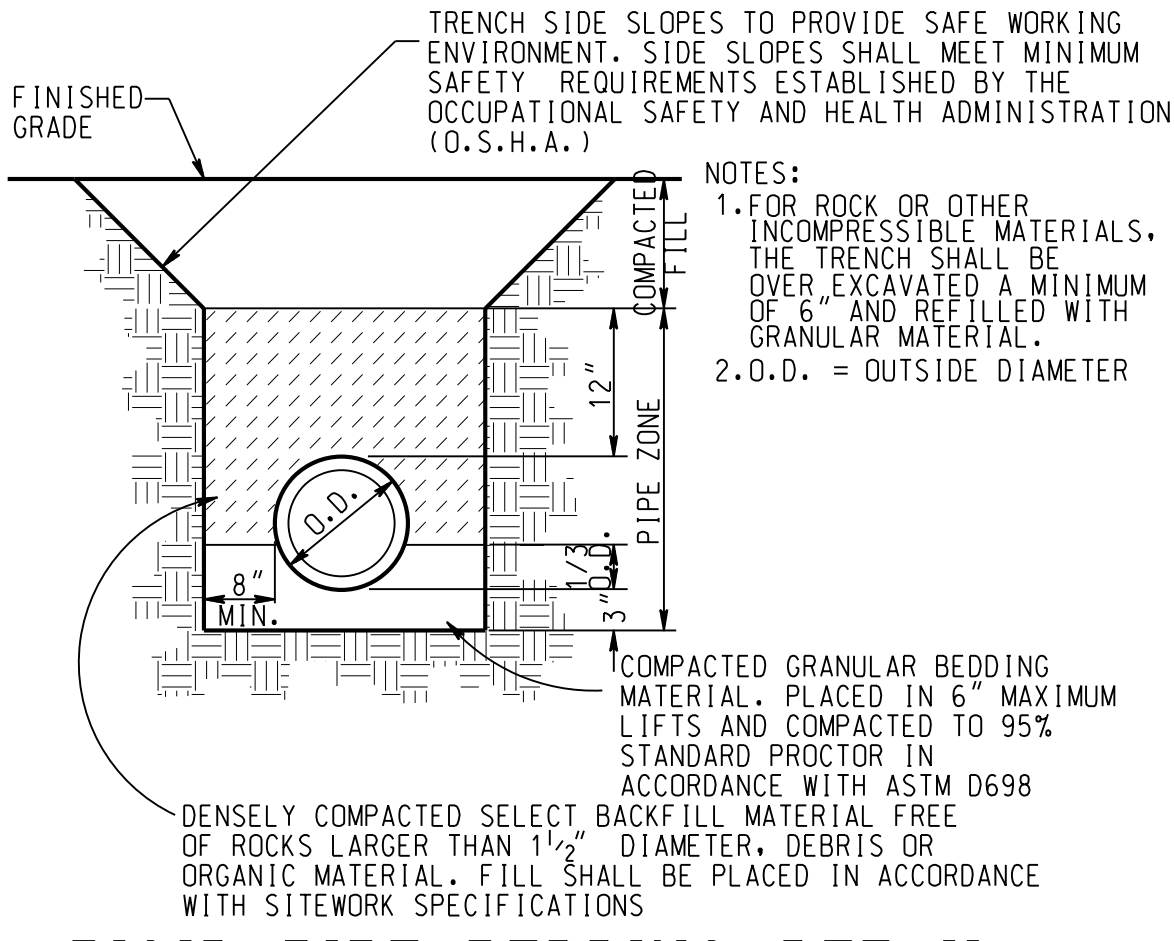
MAIN CARRIER PIPE (SEE PLAN FOR SIZE)

STAINLESS STEEL CASING SPACERS WITH 4 POINTS OF CONTACT WITH CASING PIPE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

CARRIER PIPE SHALL BE DUCTILE IRON, MECHANICAL JOINT W/RETAINER GLANDS. PIPE SHALL EXTEND A MIN. OF ONE LENGTH BEYOND END OF CASING.

ENCASEMENT DETAIL

N.T.S.

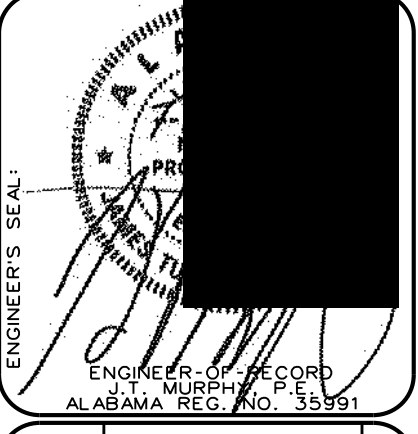


CAUTION NOTICE TO CONTRACTOR:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE 811 UNDERGROUND UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. KEEP UTILITY LOCATE REQUEST ACTIVE UNTIL EXCAVATION IS COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

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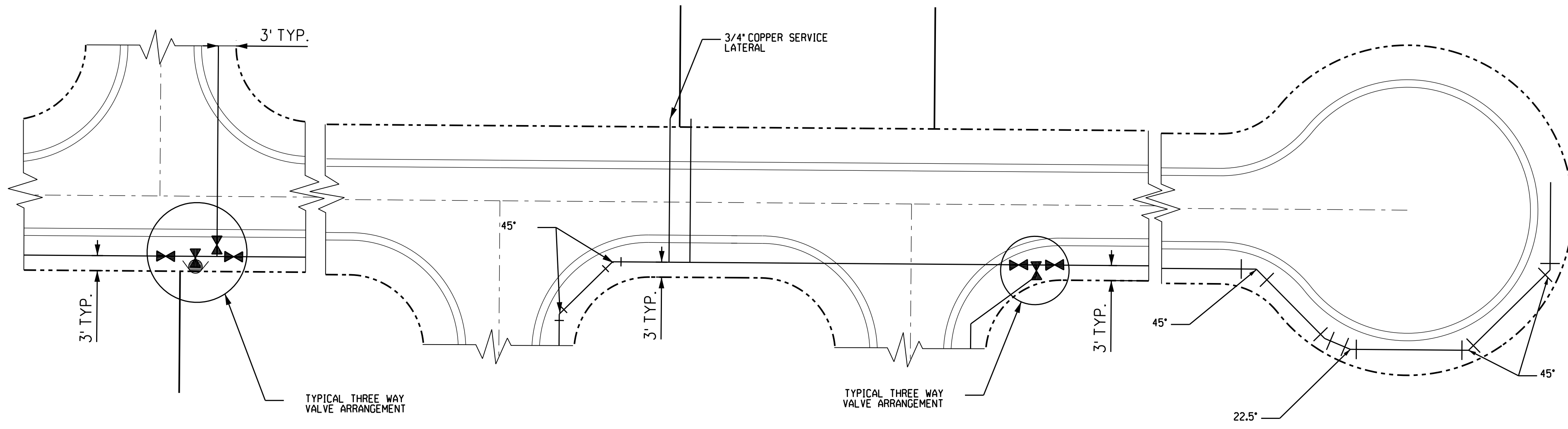
SECTIONS AND DETAILS

THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

PROJECT NO. USRE0005
DATE: 07/20/2022
DRAWN BY: JTM
CHECKED BY: JTM
SCALE: N.T.S.

NO.	DESCRIPTION	DATE	BY	CHKD BY	REV.
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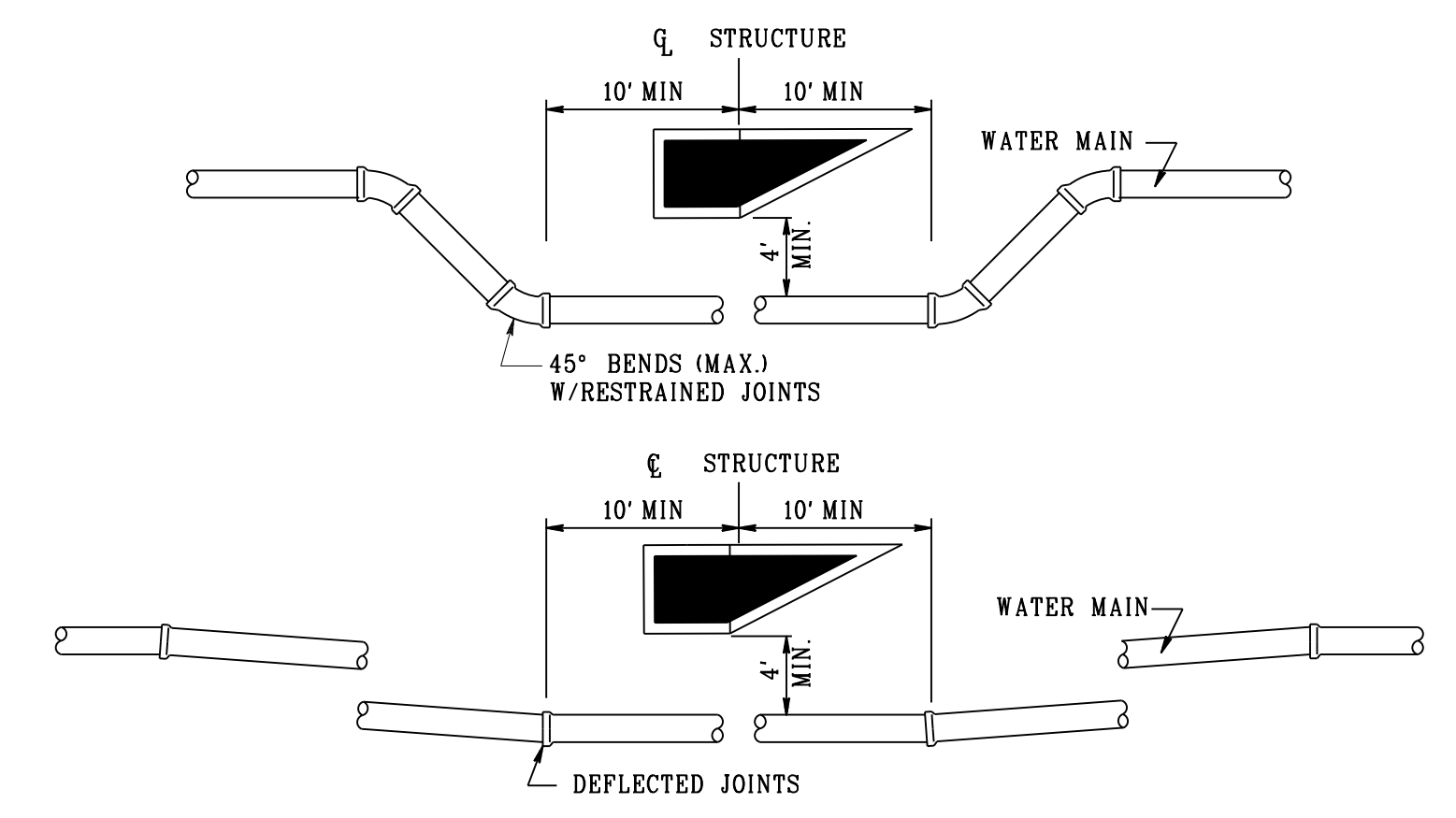
DRAWING NO. **C-12.00**



NOTE:
COORDINATE FITTING CONFIGURATION
WITH THE LOCAL WATER AUTHORITY.

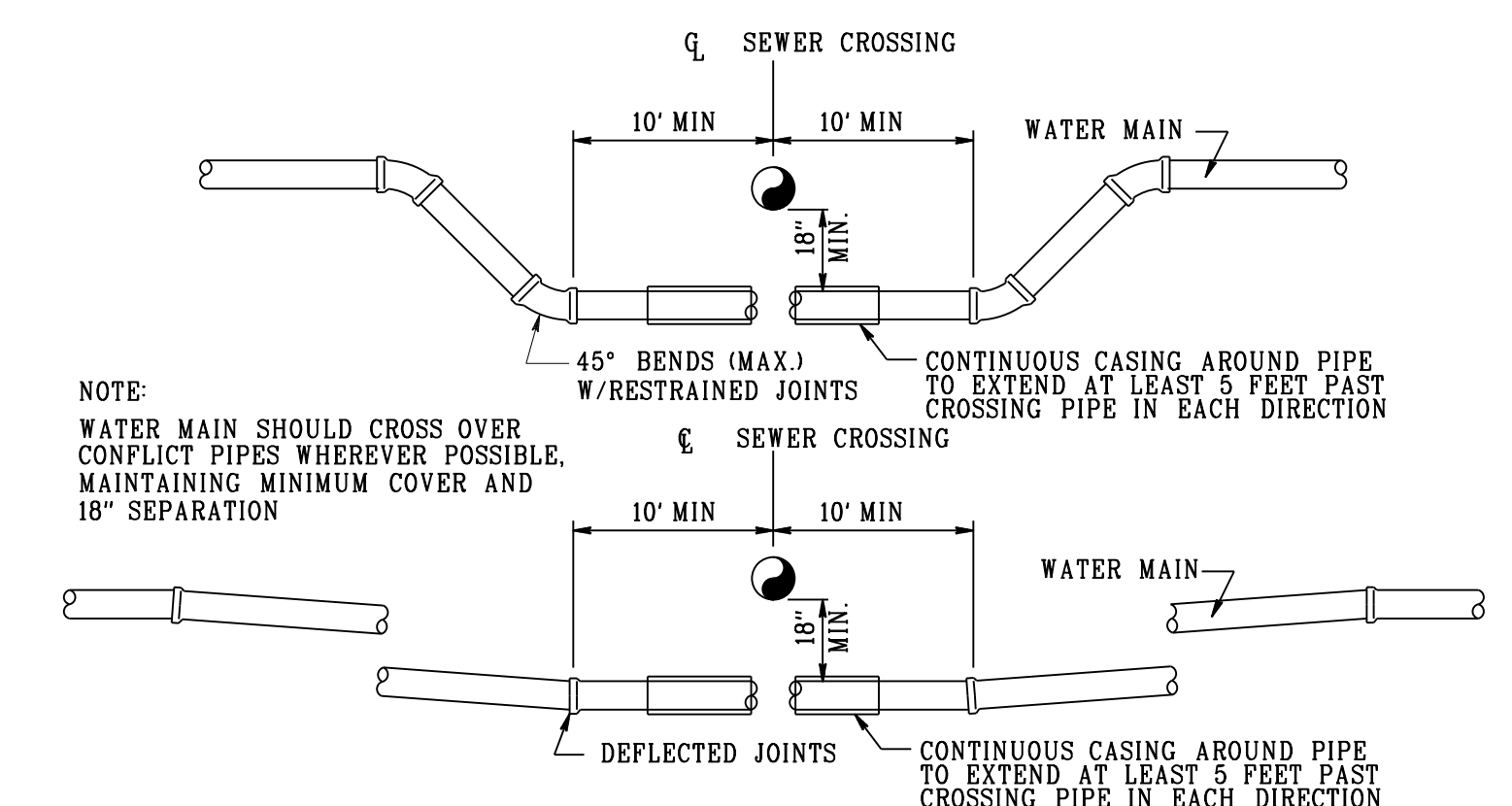
TYPICAL WATER MAIN VALVE LAYOUT

N.T.S.



**HORIZONTAL WATER & STORM
STRUCTURE SEPARATION DETAIL**

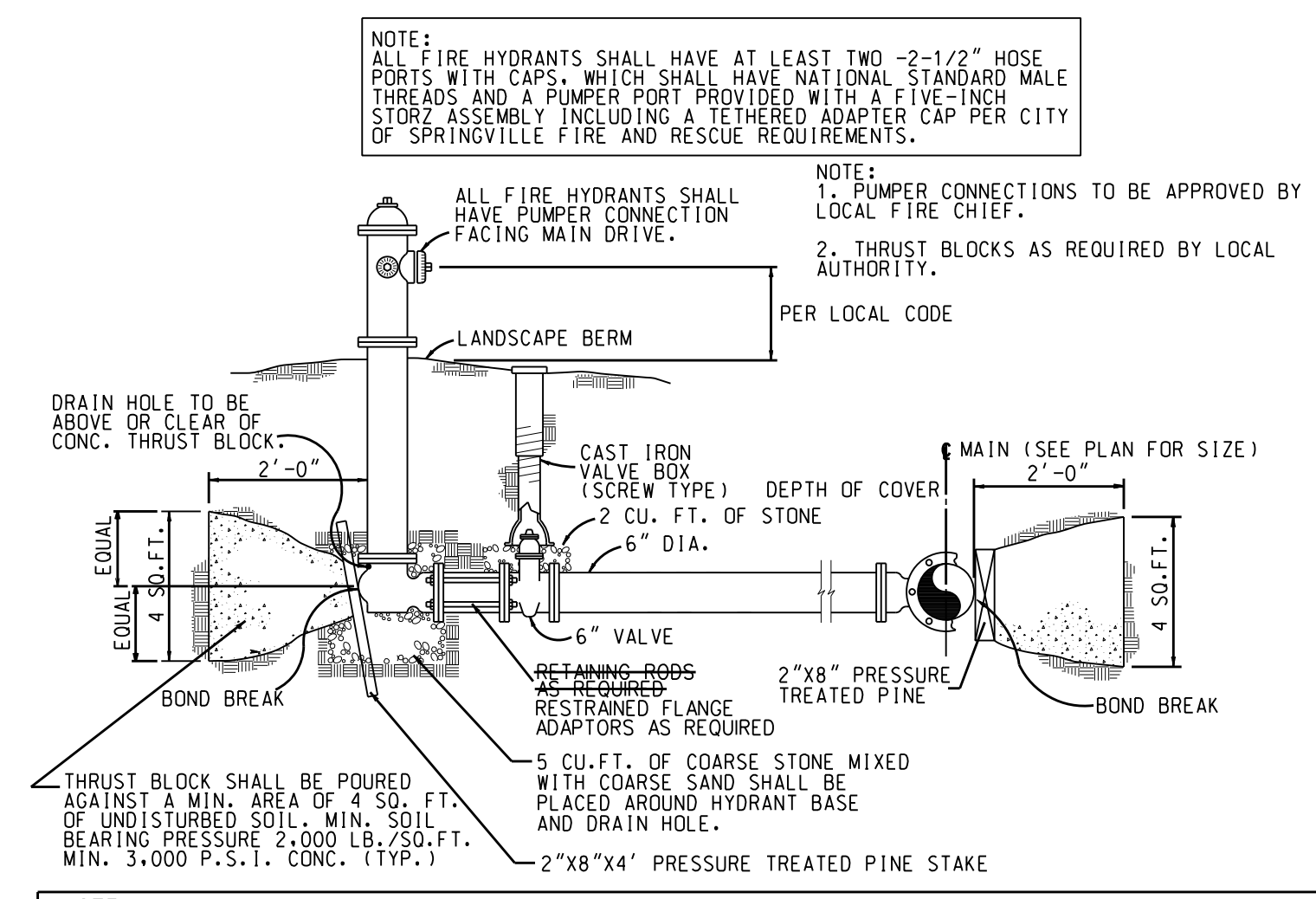
N.T.S.



NOTE:
WATER MAIN SHOULD CROSS OVER
CONFLICT PIPES WHEREVER POSSIBLE,
MAINTAINING MINIMUM COVER AND
18" SEPARATION

WATER & SEWER CROSSING DETAIL

N.T.S.



NOTE:
ALL FIRE HYDRANTS SHALL HAVE AT LEAST TWO -2-1/2" HOSE
PORTS WITH CAPS, WHICH SHALL HAVE NATIONAL STANDARD MALE
THREADS AND A PUMPER PORT PROVIDED WITH A FIVE-INCH
STORY ASSEMBLY INCLUDING A TETHERED ADAPTER CAP PER CITY
OF SPRINGVILLE FIRE AND RESCUE REQUIREMENTS.

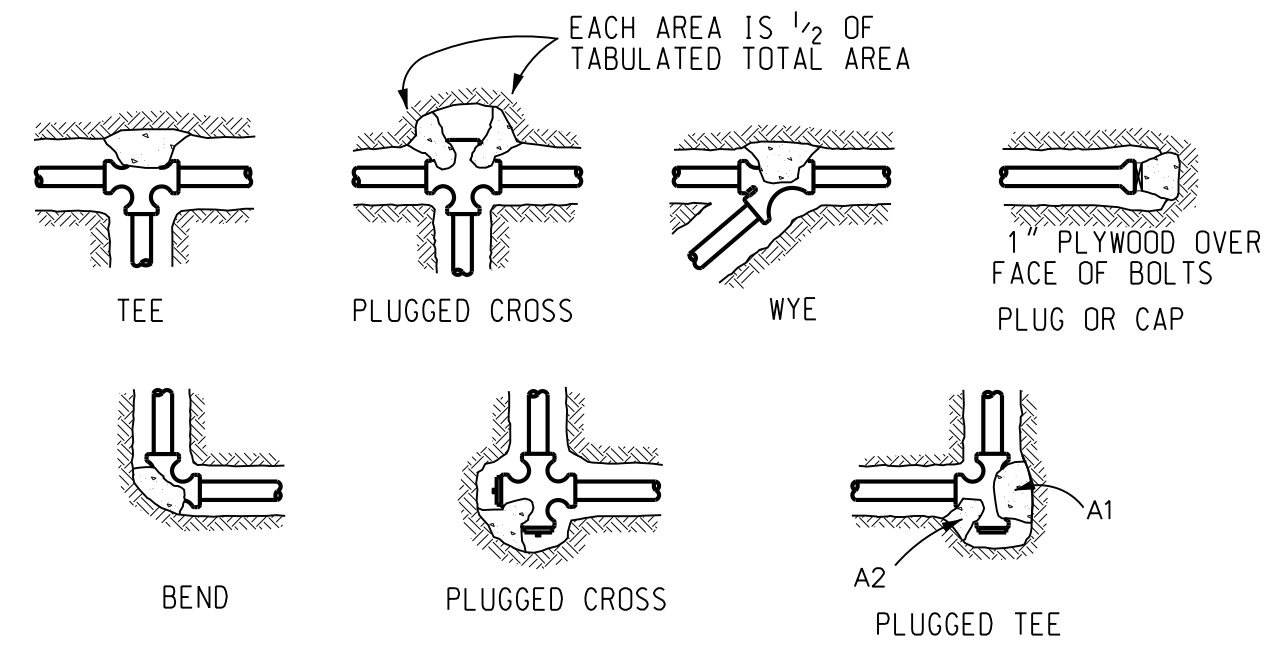
NOTE:
1. PUMPER CONNECTIONS TO BE APPROVED BY
LOCAL FIRE CHIEF.
2. THRUST BLOCKS AS REQUIRED BY LOCAL
AUTHORITY.
PER LOCAL CODE

NOTE:
1. ALL FIRE HYDRANT INSTALLATION TO BE PER FIRE DEPARTMENT AND/OR WATER AUTHORITY
SPECIFICATIONS AND REQUIREMENTS IF AND WHERE IT DIFFERS FROM ABOVE.
2. HYDRANT SHALL BE MUELLER CENTURION 200 (S") OR MSH STYLE 129 WITH ONE PUMPER AND
TWO HOSE NOZZLE. THREADS SHALL MATCH LOCAL FIRE DEPARTMENT REQUIREMENTS.
3. ALL VALVES SHALL BE RESIDENT SEAT GATE VALVES UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL VERIFY DEPTH OF MAIN AND TYPE AND SIZE OF PIPE PRIOR TO
ORDERING MATERIALS OR BEGINNING WORK.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES AND THEIR
SATISFACTORY REPAIR AND REPLACEMENT.
6. ALL CUT IN CONNECTIONS MUST BE APPROVED BY AND COORDINATED WITH THE LOCAL WATER
AUTHORITY. A MINIMUM OF 10 DAYS ADVANCE NOTICE IS REQUIRED.

TYPICAL FIRE HYDRANT INSTALLATION

N.T.S.

NOTE: MEGA-LUG RESTRAINTS SHALL BE REQUIRED.
LOCKING HYDRANT ADAPTERS MAY BE USED INSTEAD
OF MEGA-LUG RESTRAINTS.



- NOTES:
1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
 2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES. WRAP ALL FITTINGS WITH PLASTIC BEFORE ANY CONCRETE IS POURED.
 3. REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED BELOW, ADJUSTED IF NECESSARY, TO CONFORM TO THE ACTUAL TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES).
 4. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.

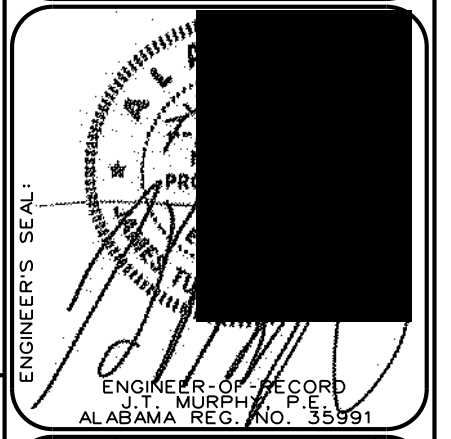
FITTING SIZE	TEE, WYE, PLUG, OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22 1/2° BEND	11 1/2° BEND
			A1	A1			
4	2.0	3.0	3.5	3.0	1.5	1.0	0.5
6	4.0	5.5	6.8	5.5	3.0	1.5	1.0
8	6.5	9.5	11.0	9.5	5.0	3.0	1.5
10	10.0	14.0	15.5	14.0	7.5	4.0	2.0
12	14.0	19.5	20	19.5	10.5	5.5	3.0

NOTE:
ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 200 P.S.I. AND AN ALLOWABLE SOIL BEARING STRESS OF 2,000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/200) X (2000/SOIL BEARING STRESS) X (TABLE VALUE).

THRUST BLOCKING DETAILS

N.T.S.

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SECTIONS AND DETAILS
THE PARCEL 15 PROJECT
LEEDS, ALABAMA
FOR
U.S. STEEL CORPORATION

NO.	DESCRIPTION	DATE	BY	CHKD BY	REV. DATE
0	ISSUE FOR PERMIT	07/20/2022	BAG	JTM	07/20/2022

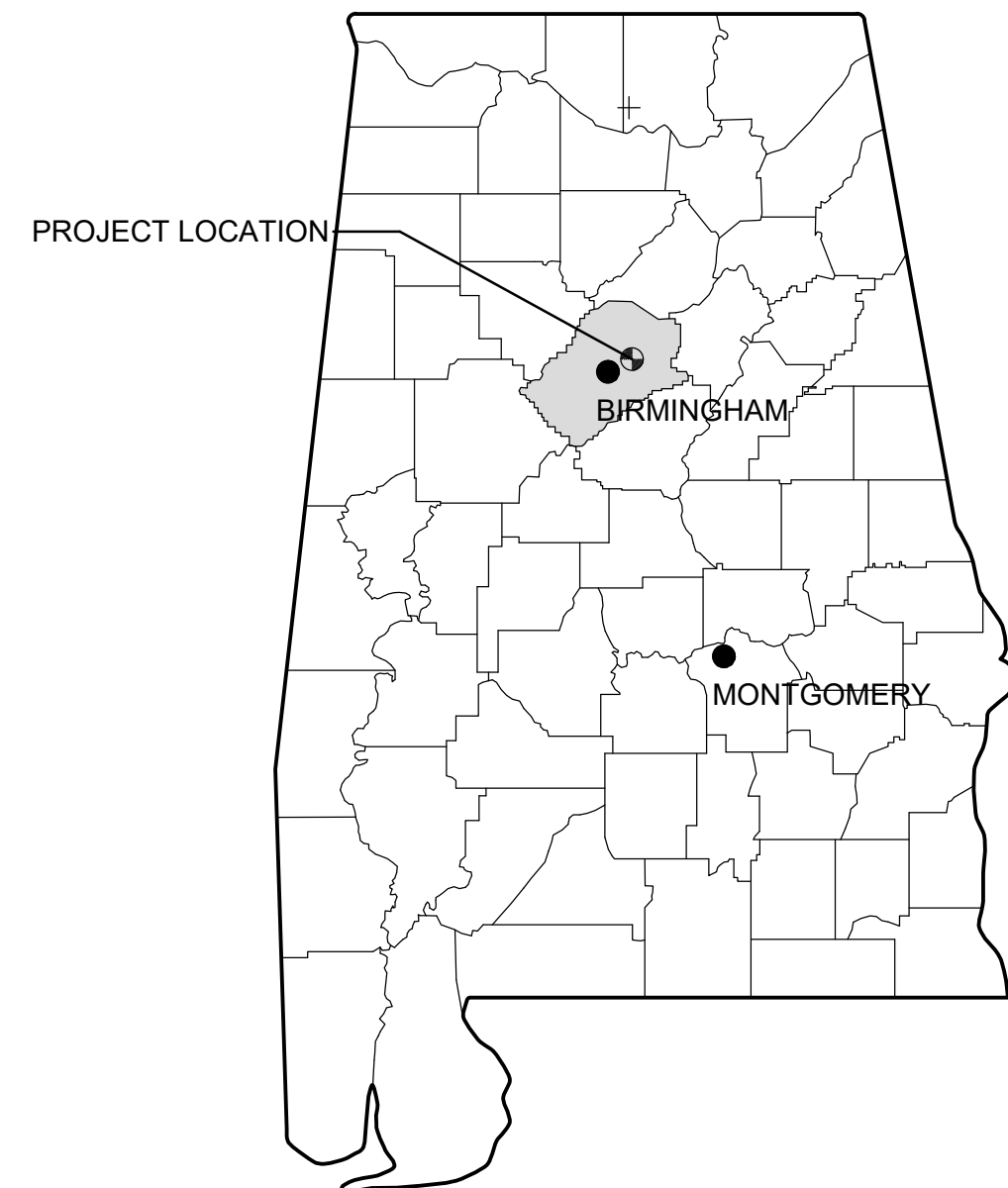


CAUTION NOTICE TO CONTRACTOR:
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE 811 UNDERGROUND UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. KEEP UTILITY LOCATE REQUEST ACTIVE UNTIL EXCAVATION IS COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

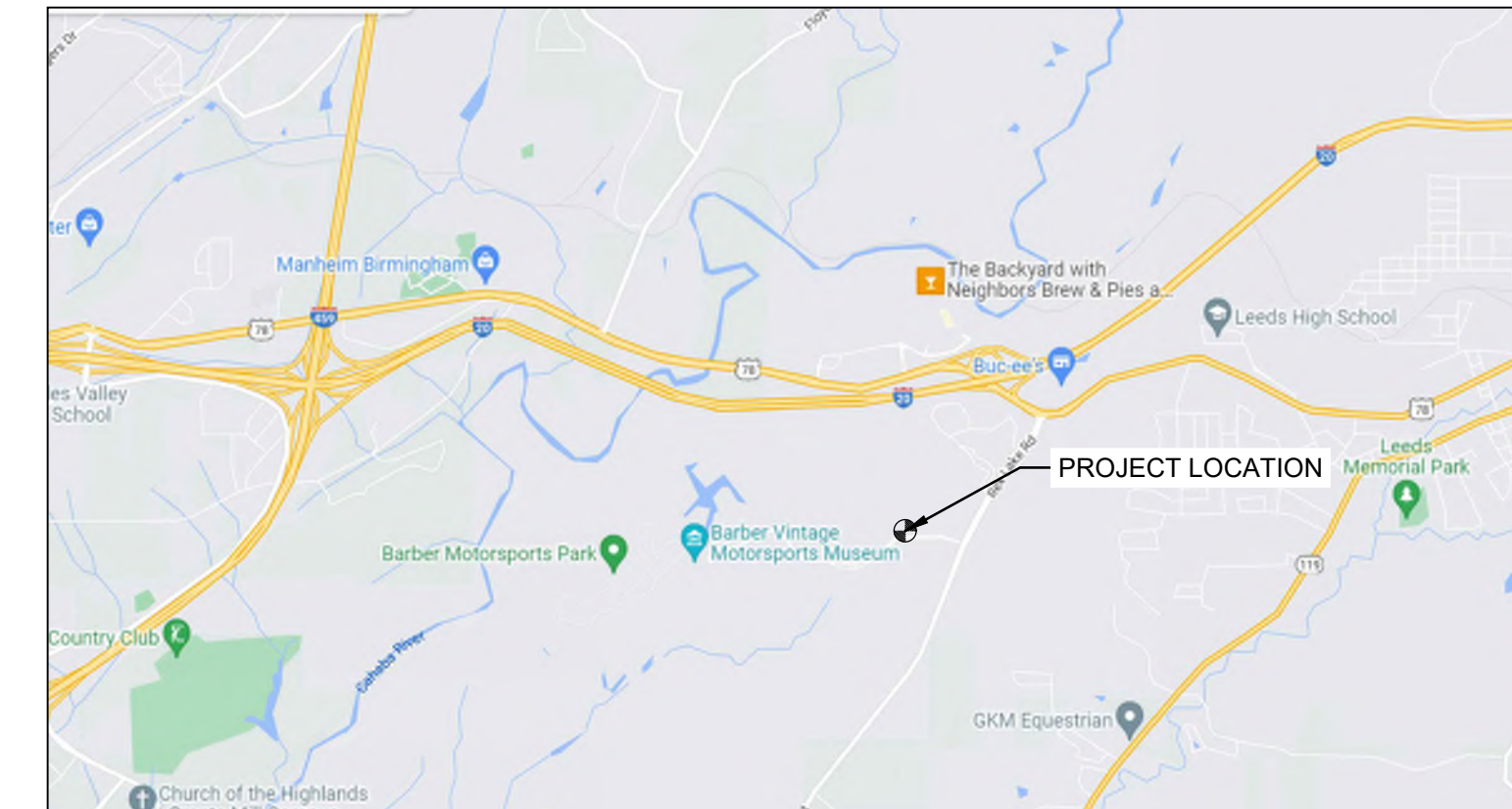
DRAWING NO.
C-12.01

CIVIL CONSULTANTS, INC. PARCEL 15 FORCE MAIN

LEEDS, ALABAMA



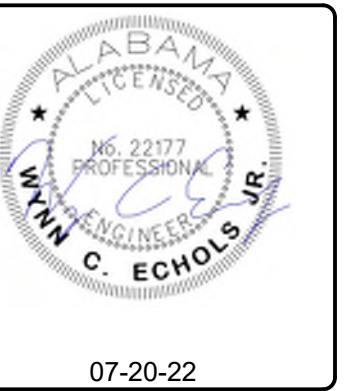
LOCATION MAP



VICINITY MAP

NOT TO SCALE

JULY, 2022



NO	DATE	REVISIONS DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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CIVIL CONSULTANTS, INC.
LEEDS, AL

PARCEL 15 FORCE MAIN

COVER SHEET

BOX IS 2 IN WIDE AT FULL SCALE

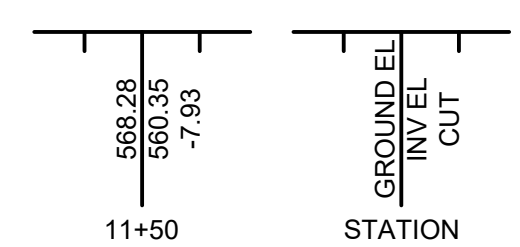
JOB NO: CC-22068
 DATE: JULY 2022
 DESIGNED BY: WCE
 DRAWN BY: TCW
 DWG: 00-C-01
 SHEET NUMBER 01

ABBREVIATIONS

@	AT
AFF	ABOVE FLOOR FINISH
AL, ALUM	ALUMINUM
APPROX	APPROXIMATE
ARV	AIR RELEASE VALVE
ASPH	ASPHALT
ASSY	ASSEMBLY
BLDG	BUILDING
BLK	BLOCK
BM	BENCHMARK
BOT, BTM	BOTTOM
CCP	CONCRETE CULVERT PIPE
CI	CAST IRON
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CMU	CLASS
CONC	CONCRETE MASONRY UNIT
CONN	CONCRETE
CONNT	CONNECTION
CONT	CONTINUOUS
CP	CONTROL POINT
DIA	DIAMETER
DI	DUCTILE IRON
EA	EACH
EF	EACH FACE
EFF	EFFLUENT
ELEC	ELECTRICAL
EL	ELEVATION
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
FFE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FIN GR	FINISH GRADE
FL	FLOW LINE
FLG	FLANGED
FT	FOOT
FTG	FOOTING
GL	GAS LINE
GR	GRADE
GRVL	GRAVEL
GV	GATE VALVE
HIGHT HT	HEIGHT
HORIZ	HORIZONTAL
HWY	HIGHWAY
ID	INSIDE DIAMETER
IN	INCHES
INF	INFLUENT
INV	INVERT
JT	JOINT
LEN	LENGTH
LG	LONG
LOC	LOCATION
LT	LEFT
MANUF	MANUFACTURER
MAX	MAXIMUM
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
N	NORTH
NIC	NOT IN CONTRACT
NO.#	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	POINT OF CURVE (START CURVE)
PE	PLAIN END
PI	POINT OF INTERSECTION
PL	PLATE
PLS	PLACES
PO	PUSH ON
PP	POWER POLE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENT (END CURVE)
PVC	POLYVINYL CHLORIDE
R,RAD	RADIUS
RCP	REINFORCED CONC PIPE
RED	REDUCER
REINF	REINFORCING
REQD	REQUIRED
RFGs	RESTRAINING FOLLOWER GLANDS
RJ	RESTRAINED JOINT
ROW, RW	RIGHT-OF-WAY
RS	RESILIENT SEAT
RT	RIGHT
S	SOUTH
SCH	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
T&B	TOP AND BOTTOM
TBM	TEMPORARY BENCHMARK
TEMP	TEMPORARY
THK	THICKNESS
TOC	TOP OF CURB
TYP	TYPICAL
V	VALVE, VOLTS
VERT	VERTICAL
W	WEST, WIDTH, WATER
W/	WITH
W/O	WITHOUT
WL	WATER LINE
WS	WATERSTOP
WWF	WELDED WIRE FABRIC
WWTP	WASTEWATER TREATMENT PLANT
X	BY

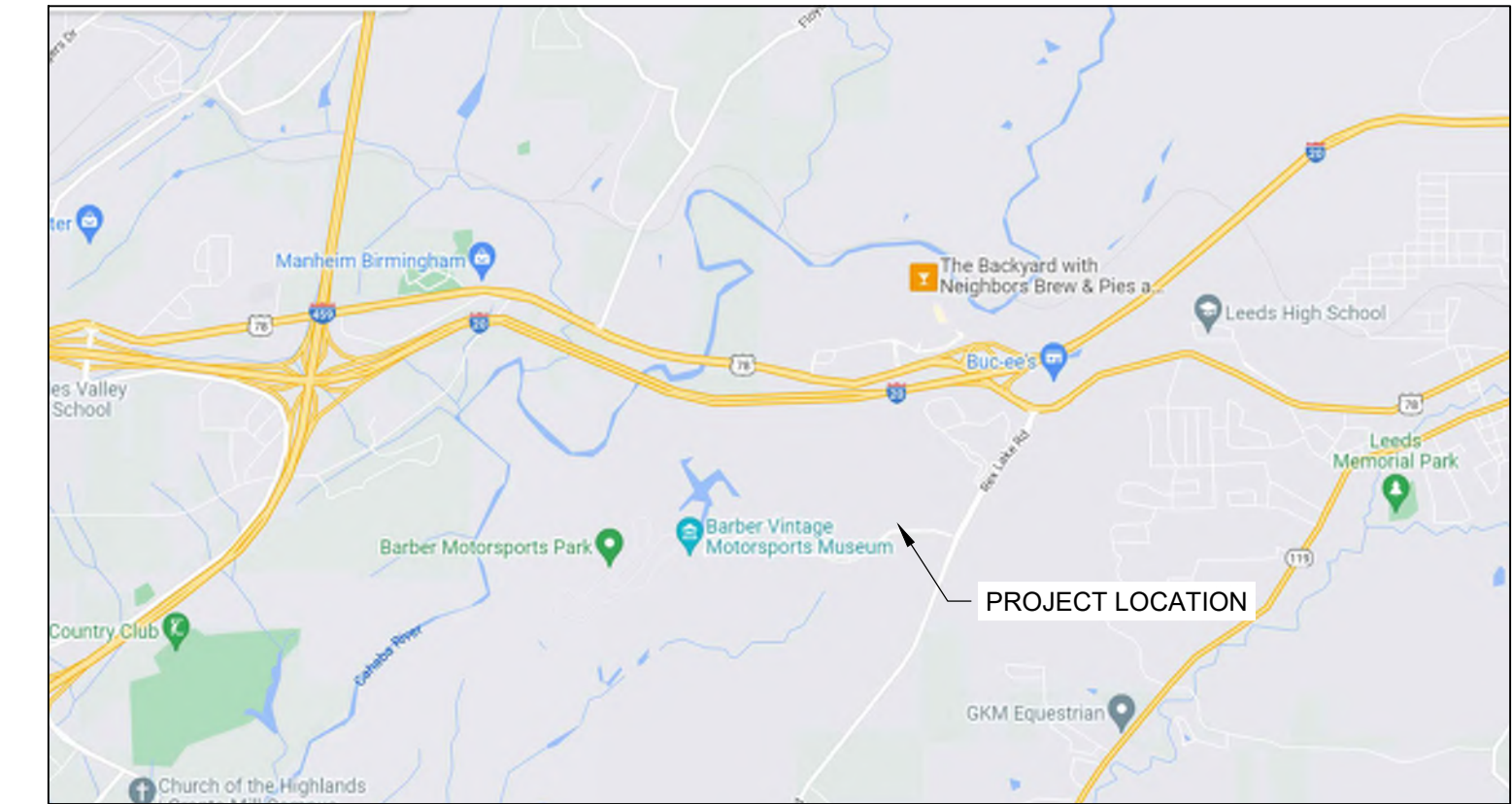
LEGEND

	PROPOSED FACILITIES, LINES, ETC
	EXISTING FACILITIES, LINES, ETC
	HUNTSVILLE SEWER
	SANITARY SEWER
	SEWER FORCE MAIN
	WATER MAIN
	GAS MAIN
	OVERHEAD ELECTRIC
	STORM SEWER
	GRAVEL ROAD OR DRIVE
	RAILROAD
	FENCE
	WATER EDGE
	TREE LINE
	TREE OR SHRUB
	FIRE HYDRANT
	YARD HYDRANT
	WATER VALVE
	SEWER VALVE
	WATER METER
	SECTION MARK
	SECTION NUMBER SHEET NUMBER
	DETAIL NUMBER SHEET NUMBER
	NORTH ARROW
	AIR RELIEF VALVE
	HUNTSVILLE SEWER MANHOLE
	SEWER MANHOLE
	CATCH BASIN
	SIGN
	RAILROAD CROSSING
	MAILBOX
	TELEPHONE PEDESTAL
	GAS VALVE
	STORM SEWER INLET
	BENCH MARK
	BORE
	UTILITY POLE
	STATION MARK
	GUIDE WIRE ANCHOR
	CONCRETE WING WALL
	PROPERTY PIN
	MONUMENT
	GAS REGULATOR
	CAP EXISTING LINE
	LIGHT POLE
	DEMOLISH OR REMOVE
	EXISTING ROADS & SIDEWALKS
	FUTURE ROADS & SIDEWALKS
	TRACER ACCESS BOX
	PROFILE LABELS



SHEET INDEX

SHT #	DWG #	DRAWING TITLE
00 - GENERAL		
01	00-C-01	COVER SHEET
02	00-C-02	LEGEND, SHEET INDEX & SITE LOCATION MAP
03	00-C-03	PROJECT NOTES
04	00-C-04	OVERALL PROJECT MAP
10 - FORCE MAIN PLAN & PROFILE		
05	10-C-20	FORCE MAIN PLAN & PROFILE - STA 0+00 TO 12+50
06	10-C-21	FORCE MAIN PLAN & PROFILE - STA 12+50 - 25+00
07	10-C-22	FORCE MAIN PLAN & PROFILE - STA 25+00 - END
95 - DETAILS		
08	95-C-01	TYPICAL DETAILS THRUST RESTRAINT
09	95-C-02	MISCELLANEOUS DETAILS SHEET #1
10	95-C-03	MISCELLANEOUS DETAILS SHEET #2
11	95-C-04	MISCELLANEOUS DETAILS SHEET #3



SITE LOCATION MAP
NOT TO SCALE



07-20-22

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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CIVIL CONSULTANTS, INC.
LEEDS, AL
PARCEL 15 FORCE MAIN

LEGEND, SHEET INDEX & SITE LOCATION MAP

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO:	CC-22068
DATE:	JULY 2022
DESIGNED BY:	WCE
DRAWN BY:	TCW
DWG:	00-C-02

SHEET NUMBER **02**

SANITARY SEWER STANDARD NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF JEFFERSON COUNTY ENVIRONMENTAL SERVICES DEPARTMENT, CITY OF LEEDS DEVELOPMENT SERVICES REQUIREMENTS AND/OR THE STATE HIGHWAY DEPARTMENT, AND O.S.H.A. REGULATIONS, AS APPLICABLE.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST ASSOCIATED WITH ANY FINES OR DAMAGES CAUSED BY THE DISCHARGE OF SEDIMENTS OR ANY OTHER VIOLATION UNDER THIS PERMIT
3. HIGH DENSITY POLYETHYLENE (HDPE) PIPE SHALL MEET THE REQUIREMENTS OF AWWA C900 FOR POLYETHYLENE PRESSURE PIPE AND FITTINGS AND FOR PE-3408 (SDR 11). HDPE PIPE SHALL MEET ASTM D-3350 CELL CLASSIFICATION OF PE 345434C. PERMANENT IDENTIFICATION OF THE PIPE SHALL BE PROVIDED BY CO-EXTRUDING GREEN LONGITUDINAL STRIPES INTO THE PIPES OUTSIDE SURFACE FOR LOW PRESSURE SEWER SYSTEM MAINS. ALL POLYETHYLENE PIPING SHALL HAVE DUCTILE IRON PIPE NOMINAL OUTSIDE DIAMETERS.

INDIVIDUAL SECTIONS OF HDPE PIPING SHALL BE JOINED TOGETHER BY THERMAL BUTT-FUSION TO MAKE A CONTINUOUS SECTION OF PIPE AS RECOMMENDED BY THE PIPE MANUFACTURER. BENDS IN HDPE PIPE SHALL NOT BE WITHIN TEN (10) PIPE DIAMETERS FROM ANY FITTING OR VALVE. THE MINIMUM RADIUS OF CURVATURE SHALL BE THIRTY (30) PIPE DIAMETERS AND BENDING SHALL NOT CAUSE KINKING. HDPE PIPING SHALL NOT BE JOINED BY SOLVENT CEMENTS, ADHESIVE, OR THREADED TYPE CONNECTIONS. THE COLOR MARKING STRIPES SHALL BE ALIGNED DURING THE FUSING PROCESS.

ALL MJ FITTING CONNECTIONS TO POLYETHYLENE PIPE SHALL BE RESTRAINED WITH MEGA-LUG RESTRAINERS. THE HDPE PIPE SHALL BE REINFORCED ON THE FITTING ENDS USING STAINLESS STEEL WEDGE INTERNAL STIFFENERS. THE MECHANICAL CONNECTION TO MJ FITTINGS AND SLEEVES SHALL USE MECHANICAL RESTRAINTS THAT MEET SPECIFICATION REQUIREMENTS.
4. ALL CONNECTIONS AND TRANSITIONS OF SANITARY SEWERS SHALL BE MADE WITH MECHANICAL JOINT COUPLINGS AND TRANSITION GASKETS (IF REQUIRED)
5. MANHOLES SHALL MEET ASTM SPECIFICATION C-478. JOINTS BETWEEN THE MANHOLE SECTIONS SHALL BE OFFSET TONGUE AND GROOVE "PUSH ON" TYPE, SUPPLIED WITH TYLOX SUPER SEAL PRE-LUBRICATED GASKET AS MANUFACTURED BY HAMILTON KENT MEETING THE REQUIREMENTS OF ASTM C443. EACH JOINT SHALL ALSO BE SUPPLIED WITH CONSEAL CS-231 WATERSTOP SEALANT AS MANUFACTURED BY CONCRETE SEALANTS. IN WIDTHS AS RECOMMENDED BY THE MANUFACTURER. MANHOLES SHALL HAVE A MINIMUM DIAMETER OF 48 INCHES AND A MINIMUM THICKNESS OF 5 INCHES. ALL MANHOLE CONES SHALL BE OF THE CONCENTRIC TYPE. MANHOLES MAY BE FINISHED TO STREET GRADE WITH BRICK AND MORTAR. THIS ADJUSTMENT HEIGHT SHALL NOT EXCEED 16 INCHES.
6. CONTRACTOR WILL BE RESPONSIBLE FOR THE CONTINUOUS AND PROPER OPERATION OF ALL EXISTING UTILITIES LOCATED ON OR ADJACENT TO THE PROJECT SITE AND WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT.
7. ALL EMBANKMENT FILL AREAS SHALL BE FILLED AND COMPACTED PRIOR TO EXCAVATION OF SEWER.
8. CONTRACTOR WILL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS AND FOR ACQUISITION OF ALL PERMITS DURING CONSTRUCTION TO INSURE THAT DAMAGE DOES NOT OCCUR TO ADJACENT PROPERTIES, PUBLIC ROADS AND/OR DITCHES (CREEKS, STREAMS).
9. UPON COMPLETION OF ALL OR ANY PART OF A SANITARY SEWER LINE, THE CONTRACTOR WILL BE REQUIRED TO TEST SAID SEWER FOR ACCEPTABILITY. GRAVITY SEWERS WILL BE PRESSURE TESTED WITH AIR. FORCE MAIN SEWERS WILL BE PRESSURE TESTED WITH WATER. MANHOLES WILL BE VACUUM TESTED. ALL TESTS WILL BE CONDUCTED IN THE PRESENCE OF THE ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS. GRAVITY SANITARY SEWERS MAY BE TELEVISION INSPECTED FOLLOWING AIR TESTING WITH THE FINAL VIDEO TAPE AND LOG FURNISHED TO THE ENGINEER FOR RECORD INFORMATION.
10. ROCK SHALL BE UNDERCUT A MINIMUM OF 4" AND PIPE BEDDED IN STONE. NO SEPARATE PAY ITEM EXISTS FOR ROCK EXCAVATION. ALL EXCAVATION SHALL BE CONSIDERED TO BE UN-CLASSIFIED EXCAVATION AND SUBSIDIARY TO OTHER BID ITEMS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY BACKUPS OR OVERFLOWS RESULTING FROM HIS WORK AND ALL SUBSEQUENT DAMAGES, FINES, PENALTIES, OR OTHER COSTS INCURRED.
12. D.I. FORCE MAIN PIPE AND FITTINGS MUST BE EPOXY LINED

CONCRETE IN MINOR STRUCTURES

1. CLASS "B" CONCRETE SHALL BE REINFORCED OR NON-REINFORCED CONCRETE HAVING A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 3,500 POUNDS PER SQUARE INCH. CLASS B CONCRETE SHALL BE USED FOR TRENCH BOTTOM STABILIZATION, PIPE PROTECTION ENCASUREMENT, PIPE COLLARS, ANCHORS, MASSIVE SECTIONS, AND SIMILAR WORK.
2. CONCRETE SHALL BE MANUFACTURED AND DELIVERED TO THE PROJECT SITE BY A READY-MIX MANUFACTURER EXPERIENCED IN READY-MIX CONCRETE.
3. READY-MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C-94, AND AS SPECIFIED.
4. MIX CONCRETE ONLY IN QUANTITIES FOR IMMEDIATE USE.
5. CONCRETE MIX DESIGN FOR PARTICULAR APPLICATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
6. REINFORCING MATERIAL FOR CAST IN PLACE CONCRETE:
 - A. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, A-616, OR A- 617. REINFORCING BARS SHALL BE GRADE 60 DEFORMED BARS, OR AS SPECIFIED ON THE PLANS.
 - B. WELDED WIRE FABRIC OR COLD-DRAWN WIRE FOR CONCRETE REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-185 OR ASTM A-82, RESPECTIVELY.
 - C. THE CONTRACTOR SHALL MAINTAIN REINFORCING IN PROPER POSITION DURING CONCRETE PLACEMENT.
7. CONCRETE PLACEMENT:
 - A. PRIOR TO PLACING ORDER FOR CONCRETE, THE CONTRACTOR SHALL INSPECT AND COMPLETE FORM WORK INSTALLATION, REINFORCING STEEL, AND ITEMS TO BE EMBEDDED OR CAST IN. THE CONTRACTOR SHALL NOTIFY OTHER CRAFTS TO PERMIT INSTALLATION OF THEIR WORK, AND TO COORDINATE WITH OTHER TRADES IN SETTING SUCH WORK. IN ADDITION TO OTHER EQUIPMENT REQUIRED FOR PLACEMENT, THE CONTRACTOR SHALL PROVIDE STANDBY VIBRATORS (MINIMUM OF TWO (2) UNITS) DURING ALL CONCRETE PLACEMENT.
 - B. THE CONTRACTOR SHALL COMPLY WITH ACI 304, "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE", AND AS HEREIN SPECIFIED.
 - C. FRESHLY PLACED CONCRETE SHALL BE PROTECTED FROM WASHY RAIN, FLOWING WATER, OR OTHER INJURIOUS CONDITIONS, AND SHALL NOT BE ALLOWED TO BECOME DRY FROM THE TIME IT IS PLACED UNTIL THE EXPIRATION OF THE 7-DAY CURING PERIOD.
 - D. THE CONTRACTOR SHALL CONSOLIDATE PLACED CONCRETE BY HAND HELD MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING, RODDING, OR TAMPING. THE CONTRACTOR SHALL USE EQUIPMENT AND PROCEDURES FOR CONSOLIDATION OF CONCRETE IN ACCORDANCE WITH ACI 309.
 - E. THE CONTRACTOR SHALL CONSOLIDATE CONCRETE DURING PLACING OPERATIONS SO THAT CONCRETE IS THOROUGHLY WORKED AROUND REINFORCEMENT AND OTHER EMBEDDED ITEMS AND INTO CORNERS.
 - F. THE CONTRACTOR SHALL PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS, OR LOW TEMPERATURES IN ACCORDANCE WITH PROVISIONS OF ACI 308.
 - G. THE CONTRACTOR SHALL MAINTAIN THE CONCRETE AT A TEMPERATURE OF NOT LESS THAN 50° F AND NOT MORE THAN 90° F FOR A PERIOD NOT LESS THAN 72 HOURS.
8. CONCRETE MATERIALS:
 - A. PORTLAND CEMENT SHALL CONFORM TO THE FOLLOWING: ALL WATER BEARING STRUCTURES SHALL CONFORM TO TYPE II-V ASTM C-150, NON- WATER BEARING STRUCTURES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-150, TYPE I.
 - B. THE CONTRACTOR SHALL USE ONE BRAND OF CEMENT THROUGHOUT THE PROJECT UNLESS OTHERWISE ACCEPTABLE TO THE ENGINEER.
 - C. FLY ASH SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-618, TYPE F.
 - D. FINE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33. THE CONTENT OF MATERIAL PASSING A NUMBER 200 SIEVE SHALL NOT EXCEED 4 PERCENT. THE CONTRACTOR SHALL USE ONLY CLEAN, SHARP, NATURAL SAND.
 - E. COARSE AGGREGATES SHALL BE CRUSHED LIMESTONE CONFORMING TO THE REQUIREMENTS OF ASTM C- 33. CRUSHED LIMESTONE FOR COARSE AGGREGATE SHALL CONSIST OF UNCOATED PARTICLES OF SOUND, DURABLE ROCK OF UNIFORM QUALITY CONTAINING NO MORE THAN 15 PERCENT FLAT OR ELONGATED PARTICLES (LONG DIMENSION MORE THAN FIVE TIMES THE SHORT DIMENSION). CONTENT OF MATERIAL PASSING A NUMBER 200 SIEVE SHALL NOT EXCEED 0.5 PERCENT. NO SURFACE, YELLOW OR SOFT STONE SHALL BE PERMITTED. THE SPECIFIC GRAVITY OF THE STONE SHALL NOT BE LESS THAN 2.56.
 - F. WATER SHALL BE CLEAN AND POTABLE.
 - G. THE CONTRACTOR SHALL PROVIDE CONCRETE ADMIXTURES WHICH CONTAIN NOT MORE THAN 0.1 PERCENT CHLORIDE IONS.

PIPE TESTING REQUIREMENTS

- PIPE TESTING REQUIREMENTS
- HYDROSTATIC LEAKAGE TEST: (WARNING: THE TESTING METHODS DESCRIBED IN THIS SECTION ARE SPECIFIC FOR WATER-PRESSURE TESTING. THESE PROCEDURES SHOULD NOT BE APPLIED FOR AIR-PRESSURE TESTING BECAUSE OF THE SERIOUS SAFETY HAZARDS INVOLVED.)
1. TESTING BEFORE BACKFILL:
 - A. ALL BACKUP BLOCKS AND ANCHORS SHALL HAVE BEEN IN PLACE AT LEAST 48 HOURS PRIOR TO TESTING.
 - B. THE TEST PRESSURE SHALL BE MAINTAINED FOR 2 HOURS OR LONGER AS IS NECESSARY FOR TIME TO INSPECT THE PIPE LINE FOR VISIBLE LEAKS AND AS IS REQUIRED TO OBTAIN A REASONABLE TIME FOR LEAKAGE MEASUREMENT.
 2. TEST RESTRICTIONS:
 - A. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT TO PERFORM ALL TESTING. WATER FOR TESTING PURPOSES MAY BE PROVIDED BY THE OWNER IF SO ARRANGED FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR ALL WATER USED FOR CONSTRUCTION AT CURRENT WATER RATES.
 3. PRESSURIZATION:
 - A. AFTER THE FORCE MAIN PIPE HAS BEEN LAID AND PARTIALLY BACKFILLED, ALL PIPE, OR ANY VALVED SECTION SHALL UNLESS OTHERWISE SPECIFIED, BE SUBJECTED TO HYDROSTATIC PRESSURE OF ONE HUNDRED (100) PSI. THE PRESSURE TEST SHALL BE FOR AT LEAST TWO (2) HOURS OR UNTIL THE LINE HAS BEEN COMPLETELY INSPECTED FOR VISIBLE LEAKS, WHICHEVER IS LONGER.
 4. AIR REMOVAL:
 - A. BEFORE TESTING, ALL AIR SHALL BE EXPELLED FROM THE LINE. ALL NECESSARY TAPS TO EXPEL THE AIR SHALL BE MADE AND THEN ALL TAPS PLUGGED WATERTIGHT. IN NO CASE SHALL WATER BE OBTAINED FROM EXISTING WATER MAINS THROUGH DIRECT CONNECTIONS TO THE FORCE MAINS.
 5. EXAMINATION:
 - A. ALL EXPOSED PIPE, FITTINGS, VALVES, AND JOINTS SHALL BE EXAMINED CAREFULLY DURING THE TEST. ANY DAMAGE OR DEFECTIVE PIPE, FITTINGS, VALVES, HYDRANTS, OR JOINTS THAT ARE DISCOVERED FOLLOWING THE PRESSURE TEST SHALL BE REPAIRED OR REPLACED WITH SOUND MATERIAL, AND THE TEST SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.
 6. LEAKAGE DEFINED:
 - A. LEAKAGE SHALL BE DEFINED AS THE QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE NEWLY LAID PIPE OR ANY VALVED SECTION THEREOF TO MAINTAIN PRESSURE WITHIN 5 PSI (34.5 KPA) OF THE SPECIFIED TEST PRESSURE AFTER THE PIPE HAS BEEN FILLED WITH WATER AND THE AIR HAS BEEN EXPELLED. LEAKAGE SHALL NOT BE MEASURED BY A DROP IN PRESSURE IN A TEST SECTION OVER A PERIOD OF TIME.
 7. ALLOWABLE LEAKAGE:
 - A. APPROVED AND SUITABLE MEANS SHALL BE PROVIDED FOR DETERMINING THE QUANTITY OF WATER LOST BY LEAKAGE. NO PIPE INSTALLATION WILL BE ACCEPTED UNTIL OR UNLESS THE LEAKAGE (EVALUATED ON A PRESSURE BASIS OF ONE HUNDRED (100) PSI) IS LESS THAN TWENTY-FIVE (25) U.S. GALLONS PER TWENTY-FOUR (24) HOURS PER MILE OF PIPE PER INCH NOMINAL DIAMETER OF PIPE. ANY OBSERVED LEAKS SHALL BE REPAIRED.

EROSION CONTROL NOTES

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL TEMPORARY EROSION CONTROL DEVICES DURING CONSTRUCTIONS AS TO INSURE PERMIT COMPLIANCE, INCLUDING PROTECTING ADJACENT PROPERTY, STREAMS, CHANNELS, AND PUBLIC ROADS. THE CONTRACTOR SHALL ASSUME LIABILITY FOR ALL FAILURES OF THE SYSTEM AND BE RESPONSIBLE FOR CLEANUP AND/OR REPAIRS TO THE SYSTEM.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST ASSOCIATED WITH ANY FINES OR DAMAGES CAUSED BY THE DISCHARGE OF SEDIMENTS OR ANY OTHER VIOLATION UNDER THIS PERMIT
3. THE MEASURES SHOWN ON THE PLANS ARE INTENDED FOR CONTROL DURING SITE CLEARING AND GRADING. ADDITIONAL MEASURES, INCLUDING SILT FENCES, HAY BALES, AND CHECK DAMS, WILL BE REQUIRED AS SITE CONDITIONS CHANGE DURING CONSTRUCTION
4. COORDINATE THE INSTALLATION OF THE SEDIMENTATION AND EROSION CONTROL MEASURE WITH THE CLEARING AND GRUBBING OPERATION. THESE ACTIVITIES MUST OCCUR IN THE PROPER SEQUENCE IN RELATION TO ONE ANOTHER TO COMPLY WITH THE PERMIT.
5. THE CONTRACTOR WILL INSTALL AND MAINTAIN THE EROSION AND SEDIMENTATION CONTROL MEASURE (BOTH TEMPORARY AND PERMANENT) AS A CONTINUING PROGRAM UNTIL THE SITE WORK IS COMPLETE AND THE SITE IS STABILIZED. ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY, MONTHLY IN DRY PERIODS AND WITHIN TWENTY-FOUR(24) HOURS AFTER ANY RAINFALL AT THE SITE OF 75 INCH WITH A TWENTY-FOUR (24) HOUR PERIOD. DURING PROLONGED RAINFALLS, DAILY CHECKING AND, IF NECESSARY, REPAIRING SHALL BE DONE
6. ALL EROSION CONTROL MEASURES COMPROMISED BY SEDIMENT BUILD-UP INCLUDING RIP RAP,SILT FENCES, HAY DAMS, CHECKS, OR OTHER DEVICES, WILL BE REPAIRED OR REPLACED AS NECESSARY
7. ANY PIPE, CREEK, OR OTHER STORM DRAINAGE FEATURE SHOWING EVIDENCE OF SEDIMENT ACCUMULATION SHALL BE CLEANED OUT. THE SEDIMENT REMOVED SHALL BE DISPOSED OF IN A LOCATION APPROVED BY THE OWNER OR HIS REPRESENTATIVE
8. DO NOT DEPOSIT WASTE, LOOSE SOIL OR OTHER MATERIALS IN LIVE STREAMS, SW ALES OR DRAINAGE WAYS, EXCEPT AS APPROPRIATE FOR EROSION CONTROL(E.G. LOG AND BRUSH CHECKS).
9. AFTER THE EROSION ACTIVITY HAS STABILIZED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION CONTROL DEVICES AT THE DIRECTION OF THE OWNER AND CLEANING UP AND DRESSING THE AREA TO THE SATISFACTION OF THE OWNER.
10. ADEQUATE PROTECTIVE MEASURES SHALL BE PROVIDED FOR THE CONTAINMENT HAZARDOUS SUBSTANCES AND ANY OTHER MATERIAL WHICH MAY POLLUTE STORM WATER, INCLUDING PETROLEUM PRODUCTS, LUBRICANTS, AND PAINT. ADEQUATE PROTECTIVE MEASURES SHALL BE PROVIDED FOR THE CONTAINMENT HAZARDOUS SUBSTANCES AND OTHER MATERIALS, WHICH MAY POLLUTE INCLUDING PETROLEUM PRODUCTS, LUBRICANTS, AND PAINTS, SHALL BE STORED IN ACCORDANCE TO WITH SPCC REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM ALL STORMS DRAINS, DITCHES, AND CUTTERS IN WATER TIGHT CONTAINERS. DISPOSAL OF THESE MATERIALS SHALL BE IN ACCORDANCE WITH ADEM REGULATIONS. CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ON SITE FOR DISPOSAL OF CONSTRUCTION MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING TRASH FROM THE SITE TO ENTER THE STORM DRAINAGE SYSTEM.
11. SILT FENCE BARRIER SHALL BE FABRIC 36 INCHED IN WIDTH (MIN.) AND BE ENVIROFENCE 100X AS MANUFACTURED BY MIRAFI, INC. OR APPROVED EQUAL. THE FABRIC SHALL BE SUPPORTED BY WIRE FENCE, HAVING A MINIMUM OF 6 LINE WIRES AND A MAXIMUM OF 12' STAY SPACING. WIRE FENCE SHALL BE SUPPORTED BY STEEL POSTS OR WOOD POST (4" DIA. OR SO.) WITH #6 WIRE STAPLES (11/2" L MIN.)THE BOTTOM EDGE OF THE FENCE WILL BE PLACED IN A EXCAVATED TRENCH 6" DEEP AND COVERED AS SHOWN IN THE SILT FENCE DETAIL.
12. ALL STORM SEWER INLETS IN DISTURBED AREAS OR IN OTHER AREAS SUBJECT TO POTENTIAL INFLOW OF SEDIMENT SHALL BE PROTECTED AT A MINIMUM WITH HAY BALES AND SILT FENCE.
13. ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR MORE THAN 14 DAYS MUST BE SEEDED AND MULCHED.
14. ANY DISTURBANCE OF SOIL AND VEGETATION OUTSIDE THE LIMITS OF THE CLEARING LINE WILL NOT BE PERMITTED UNDER ANY CONDITION.
15. PREVENT RUN-ON AND RUN-OFF FROM SOIL AND SEDIMENT PILES BY SURROUNDING PILE WITH HAY BALES AND/OR SILT FENCE.
16. PREVENT AND CONTROL SOIL EROSION AND GULLIFYING WITHIN THE PROPERTY COVERED BY CONTRACT AND THE ADJACENT PROPERTIES AS A RESULT OF CONSTRUCTION.
17. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COLLECTION, STORAGE, AND DISPOSAL OF SOLID AND SANITARY WASTES. DISPOSAL OF THESE WASTES SHALL BE OFF-SITE IN AN APPROPRIATELY PERMITTED FACILITY. JOB SAFETY IS NOT THE RESPONSIBILITY OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY.

PROJECT SPECIFIC NOTES

1. CONTRACTOR SHALL NOTIFY GOVERNING AUTHORITIES A MINIMUM OF 2 WEEKS PRIOR TO BEGINNING ANY WORK WITHIN THE RIGHT OF EXISTING ROADS.
2. ALL FEMA, USACE, COUNTY, CITY AND/OR STATE PERMITS SHALL BE IN HAND AND ON SITE DURING THE CONSTRUCTION OF THE PROJECT.
3. ALL PERMITS, OTHER THAN THOSE LISTED IN THE SPECIFICATIONS, FOR THE DEVELOPMENT OF THESE PLANS ARE THE CONTRACTOR'S RESPONSIBILITY AND SHOULD BE OBTAINED PRIOR TO DISTURBING ANY AREAS OR BEGINNING ANY CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER CONCURRENT WORK BEING PERFORMED IN THE AREA.
5. A SIGNED AND SEALED COPY OF THE PLANS SHALL BE MAINTAINED ON SITE AND MADE READILY AVAILABLE FOR THE DURATION OF THE CONSTRUCTION.
6. THE CONTRACTOR SHALL OBTAIN FROM THE ENGINEER ONE (1) SET OF BLUELINE PRINTS OF THE CONTRACT PLANS. THESE PLANS SHALL BE KEPT AND MAINTAINED IN GOOD CONDITION AT THE PROJECT SITE AND A QUALIFIED REPRESENTATIVE OF THE CONTRACTOR SHALL ENTER UPON THESE PRINTS, FROM DAY-TO-DAY, THE ACTUAL "AS-BUILT" RECORD OF THE CONSTRUCTION PROGRESS. ENTRIES AND NOTATIONS SHALL BE MADE IN A NEAT AND LEGIBLE MANNER AND THESE PRINTS SHALL BE DELIVERED TO THE ENGINEER UPON COMPLETION OF THE CONSTRUCTION. APPROVAL FOR FINAL PAYMENT WILL BE CONTINGENT UPON COMPLIANCE WITH THIS PROVISION.
7. AFTER CONSTRUCTION BEGINS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING AND/OR NOTIFYING THE ENGINEER AT LEAST 2 WEEKS IN ADVANCE OF THE FOLLOWING:
 - A. DAILY WORK SCHEDULE INCLUDING ANY CHANGES IN SCHEDULE.
 - B. IF WORK IS TO BE PERFORMED ON WEEKENDS AND/OR HOLIDAYS.
 - C. DATES TRENCHES WILL BE OPEN AND SEWERS WILL BE INSTALLED.
 - D. DATES STRUCTURES WILL BE INSTALLED.
 - E. DATE ALL APPLICABLE TESTS ARE TO BE PERFORMED.
 - F. DATE "AS-BUILT" VERIFICATION IS TO BE PERFORMED.
 - G. ANY OTHER INFORMATION DEEMED NECESSARY TO ASSURE TO SANITARY SEWER FACILITIES ARE PROPERLY CONSTRUCTED.
8. ALL TESTING REQUIRED SHALL BE PERFORMED UNDER THE OBSERVATION OF THE ENGINEER, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE THE TESTING WITH THE APPROPRIATE PARTY. TEST RESULTS OBTAINED IN THE ABSENCE OF THE ENGINEER SHALL NOT BE ACCEPTED. PROVIDE A MINIMUM OF 2 WEEKS NOTICE BEFORE COMMENCEMENT OF WORK AND TESTING.
9. ANY PORTION OF THE SANITARY SEWER FACILITY NOT INSPECTED AS PRESCRIBED BY THIS SECTION MAY REQUIRE EXCAVATION TO THE EXTENT REQUIRED BY THE ENGINEER.
10. ANY PORTION OF THE SANITARY SEWER FACILITY NOT PASSING THE TESTS SHALL BE REPAIRED OR REPLACED TO THE EXTENT REQUIRED BY THE ENGINEER AND RETESTED.
11. CONTRACTOR SHALL PROVIDE THREE (3) COPIES O&M MANUALS FOR EQUIPMENT INCLUDED IN THIS PROJECT.
12. CONTRACTOR SHALL PROVIDE AS-BUILT PACKAGE INCLUDING HARD COPIES AND ELECTRONIC FILES OF PROJECT PLANS WITH FIELD MODIFICATIONS INCORPORATED INTO CONSTRUCTION PLANS.

PROJECT SPECIFIC NOTES CONTINUED

13. THE MINIMUM COVER FROM THE TOP OF THE PIPE OF ALL SANITARY SEWER MAINS SHALL BE FOUR (4) FEET TO FINISHED SUBGRADE UNDER ROADWAYS AND THREE (3) FEET TO FINISHED GRADES ELSEWHERE. COVER OF MAINS TO LESS THAN MINIMUM DEPTHS SHALL REQUIRE WRITTEN APPROVAL BY RIVIERA UTILITIES.
14. WELDED STEEL ENCASUREMENT PIPE: WELDED STEEL ENCASEMENT PIPE SHALL BE OF THE SIZE AND WALL THICKNESS SHOWN ON THE PLANS AND SHALL CONFORM TO ASTM A252, GRADE 2. THE PIPE SHALL BE COATED ON THE OUTSIDE ONLY WITH A COAL TAR PRIMER COAT FOLLOWED BY A SINGLE APPLICATION OF HOT COAL TAR ENAMEL. 3/32 INCHES THICK ±1/32 INCHES.
15. ENCASEMENT PIPE SPACERS: WHEN PIPE IS INSTALLED IN ENCASEMENT PIPE, COMMERCIALY-FABRICATED ENCASEMENT SPACERS (RACI CASING SPACERS OR APPROVED EQUIVALENT) SHALL BE USED TO PREVENT DAMAGE TO THE CARRIER PIPE BELL JOINTS DURING INSTALLATION AND TO PROVIDE PROPER LONG-TERM PIPE SUPPORT. THE INSTALLATION AND SPACING FROM CENTER TO CENTER OF ENCASEMENT SPACERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR THE SPECIFIC INSTALLATION. USE OF WOODEN SKIDS WILL NOT BE PERMITTED. ENCASEMENT SPACERS MUST BE FASTENED SECURELY TO PREVENT SLIDING ALONG THE CARRIER PIPE AND SHALL PROVIDE SUFFICIENT HEIGHT TO PERMIT CLEARANCE BETWEEN BELL JOINTS AND THE ENCASEMENT WALLS. ENCASEMENT SPACERS SHALL BE CONSTRUCTED ENTIRELY OF NONMETALLIC MATERIALS.
16. ENCASEMENT PIPE END SEALS: THE ENDS OF ENCASEMENT PIPE SHALL BE SEALED WITH APPROVED RUBBER END SEALS HAVING STAINLESS STEEL CLAMPING BANDS. MASONRY PLUGS SHALL NOT BE USED UNLESS APPROVED BY THE ENGINEER. FORCE MAINS SHALL BE CONSTRUCTED TO THE ALIGNMENT AND DEPTH REQUIRED. THE FORCE MAINS SHALL HAVE AT LEAST THIRTY (30) INCHES COVER UNLESS ADDITIONAL COVER IS REQUIRED BY THE PLANS. THE TRENCH SHALL BE BRACED AND DRAINED SO THAT WORKMAN MAY WORK SAFELY THEREIN. THE WIDTH OF THE TRENCH SHALL BE AT LEAST ONE (1) FOOT GREATER THAN THE NOMINAL DIAMETER OF THE PIPE AND THE MAXIMUM CLEAR WIDTH OF THE TRENCH SHALL BE NOT MORE THAN TWO (2) FEET GREATER THAN THE PIPE DIAMETER.

GENERAL NOTES

1. SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR SAFETY, MEANS, OR METHODS OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL APPROPRIATE AGENCIES BEFORE WORK COMMENCES TO VERIFY THE TYPE, LOCATION, PROTECTION REQUIREMENTS, DEPTH OF ALL EXISTING UTILITIES, DRAINAGE FACILITIES, AND OTHER OBSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIRING AND/OR REPLACING ANY SUCH ITEMS DAMAGED DURING CONSTRUCTION.
3. UTILITIES ON PLANS AND PROFILES ARE SHOWN IN APPROXIMATE LOCATIONS AND MAY BE AT ASSUMED ELEVATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, OBSTRUCTIONS, AND DRAINAGE STRUCTURES. UNLESS APPROVED IN ADVANCE BY THE ENGINEER AND OWNER, ALL EXISTING LINES SHALL REMAIN ACTIVE THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION AND SATISFACTORY REPAIR OR REPLACEMENT OF, DAMAGED FACILITIES.
4. CONTRACTOR SHALL LOCATE AND UNCOVER ALL POTENTIALLY CONFLICTING UTILITIES BEFORE CONSTRUCTION GRADES OR DEPTHS OF CUT ARE FINALIZED AND PIPE IS LAID.
5. APPROXIMATE LOCATIONS OF OVERHEAD POWER LINES MAY OR MAY NOT BE SHOWN ON PLANS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL LOCATIONS IN THE FIELD AND PLAN WORK IN THESE AREAS ACCORDINGLY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE DRAINAGE, STORMWATER PERMITS, AND COMPLIANCE WITH ALL GOVERNMENTAL STORMWATER REGULATIONS.
7. ALL ASPHALT AND CONCRETE PAVING REMOVED AND REPLACED SHALL BE NEAT SAW CUT.
8. ALL EXCAVATION BACKFILL SHALL BE COMPACTED TO MIN. 95% STANDARD PROCTOR DENSITY AND AS REQUIRED TO PREVENT SETTLEMENT.
9. ALL CONNECTIONS TO EXISTING LINES TO BE COORDINATED WITH THE OWNER TO MINIMIZE INTERRUPTION OF SEWER SERVICE.
10. CONTRACTOR MUST COMPLY WITH LOCAL ELECTRICAL CODES.
11. CONTRACTOR MUST COMPLY WITH GENERAL OCCUPATIONAL SAFETY AND HEALTH REGULATIONS.



REVISIONS		DESCRIPTION	AS-BUILT	CONSTRUCTION REVISIONS	AS-BID	FOR REVIEW AND COMMENT
NO	DATE					

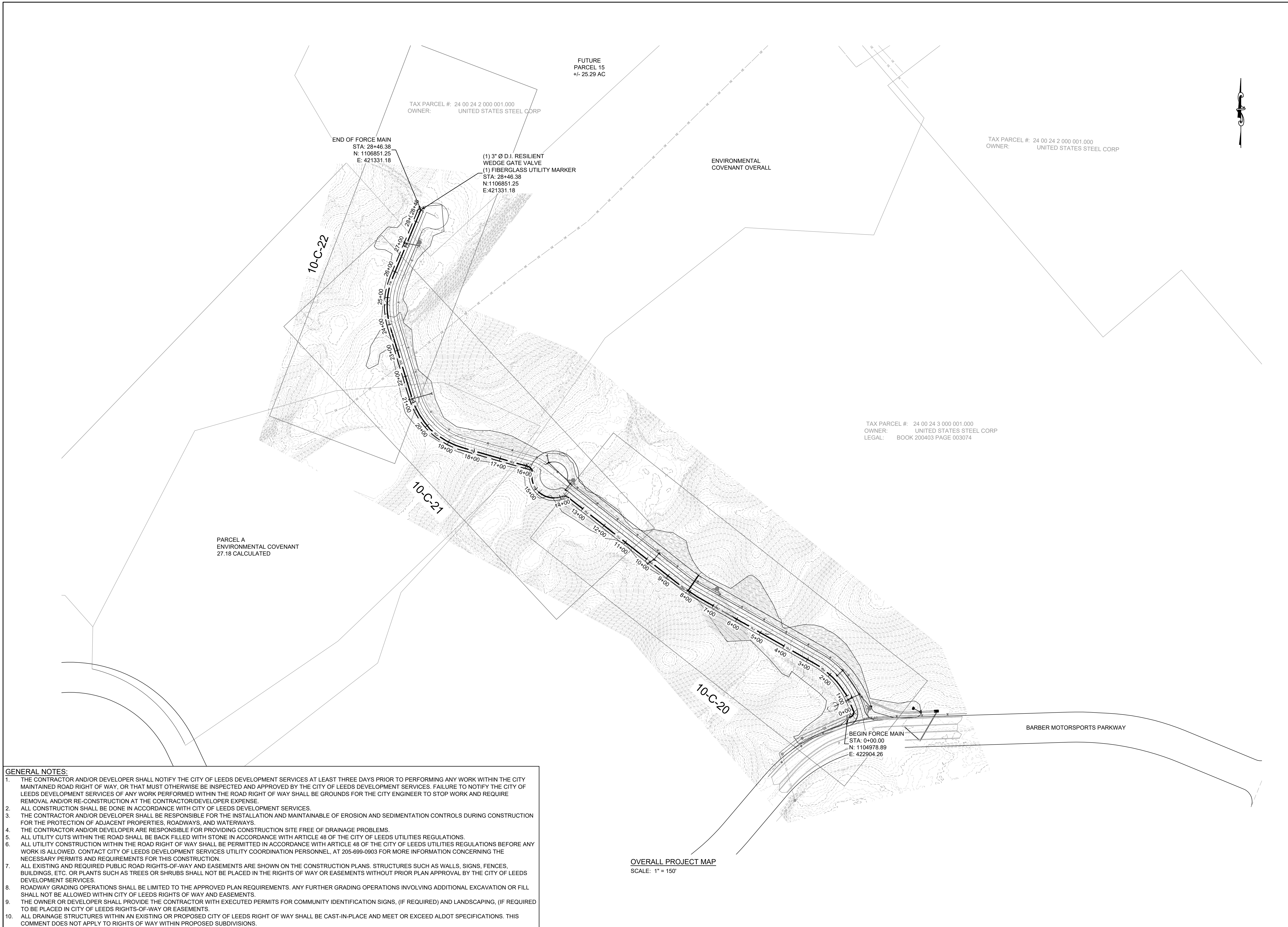
CIVIL CONSULTANTS, INC.
LEEDS, AL

PARCEL 15 FORCE MAIN

PROJECT NOTES

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: CC-22068
 DATE: JULY 2022
 DESIGNED BY: WCE
 DRAWN BY: TCW
 DWG: 00-C-03
 SHEET NUMBER: 03



- GENERAL NOTES:**
1. THE CONTRACTOR AND/OR DEVELOPER SHALL NOTIFY THE CITY OF LEEDS DEVELOPMENT SERVICES AT LEAST THREE DAYS PRIOR TO PERFORMING ANY WORK WITHIN THE CITY MAINTAINED ROAD RIGHT OF WAY, OR THAT MUST OTHERWISE BE INSPECTED AND APPROVED BY THE CITY OF LEEDS DEVELOPMENT SERVICES. FAILURE TO NOTIFY THE CITY OF LEEDS DEVELOPMENT SERVICES OF ANY WORK PERFORMED WITHIN THE ROAD RIGHT OF WAY SHALL BE GROUNDS FOR THE CITY ENGINEER TO STOP WORK AND REQUIRE REMOVAL AND/OR RE-CONSTRUCTION AT THE CONTRACTOR/DEVELOPER EXPENSE.
 2. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH CITY OF LEEDS DEVELOPMENT SERVICES.
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 4. THE CONTRACTOR AND/OR DEVELOPER ARE RESPONSIBLE FOR PROVIDING CONSTRUCTION SITE FREE OF DRAINAGE PROBLEMS.
 5. ALL UTILITY CUTS WITHIN THE ROAD SHALL BE BACK FILLED WITH STONE IN ACCORDANCE WITH ARTICLE 48 OF THE CITY OF LEEDS UTILITIES REGULATIONS.
 6. ALL UTILITY CONSTRUCTION WITHIN THE ROAD RIGHT OF WAY SHALL BE PERMITTED IN ACCORDANCE WITH ARTICLE 48 OF THE CITY OF LEEDS UTILITIES REGULATIONS BEFORE ANY WORK IS ALLOWED. CONTACT CITY OF LEEDS DEVELOPMENT SERVICES UTILITY COORDINATION PERSONNEL, AT 205-699-0903 FOR MORE INFORMATION CONCERNING THE NECESSARY PERMITS AND REQUIREMENTS FOR THIS CONSTRUCTION.
 7. ALL EXISTING AND REQUIRED PUBLIC ROAD RIGHTS-OF-WAY AND EASEMENTS ARE SHOWN ON THE CONSTRUCTION PLANS. STRUCTURES SUCH AS WALLS, SIGNS, FENCES, BUILDINGS, ETC. OR PLANTS SUCH AS TREES OR SHRUBS SHALL NOT BE PLACED IN THE RIGHTS OF WAY OR EASEMENTS WITHOUT PRIOR PLAN APPROVAL BY THE CITY OF LEEDS DEVELOPMENT SERVICES.
 8. ROADWAY GRADING OPERATIONS SHALL BE LIMITED TO THE APPROVED PLAN REQUIREMENTS. ANY FURTHER GRADING OPERATIONS INVOLVING ADDITIONAL EXCAVATION OR FILL SHALL NOT BE ALLOWED WITHIN CITY OF LEEDS RIGHTS OF WAY AND EASEMENTS.
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 10. ALL DRAINAGE STRUCTURES WITHIN AN EXISTING OR PROPOSED CITY OF LEEDS RIGHT OF WAY SHALL BE CAST-IN-PLACE AND MEET OR EXCEED ALDOT SPECIFICATIONS. THIS COMMENT DOES NOT APPLY TO RIGHTS OF WAY WITHIN PROPOSED SUBDIVISIONS.

OVERALL PROJECT MAP
SCALE: 1" = 150'



NO	DATE	REVISIONS DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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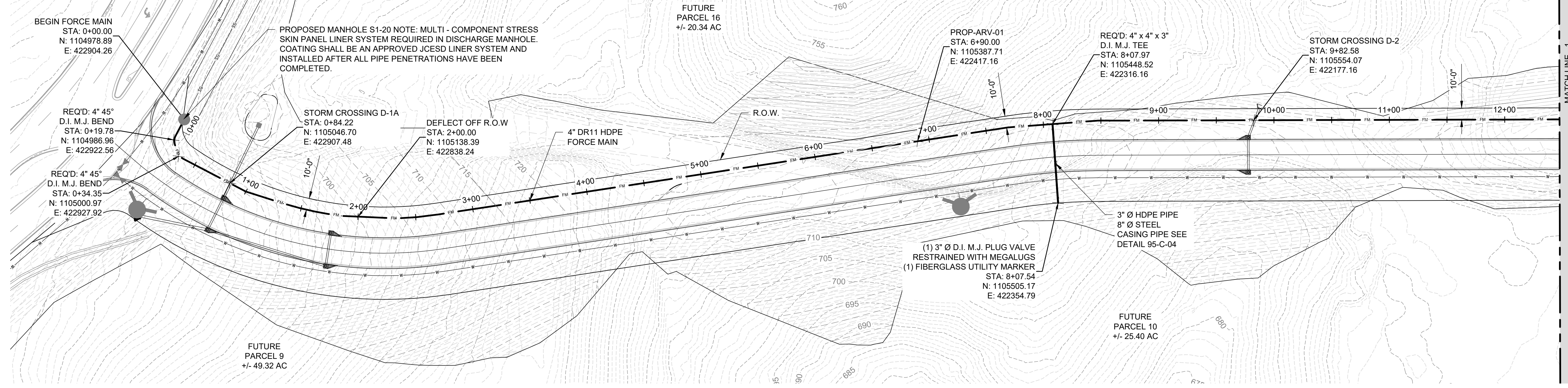
CIVIL CONSULTANTS, INC.
LEEDS, AL
PARCEL 15 FORCE MAIN

OVERALL PROJECT MAP

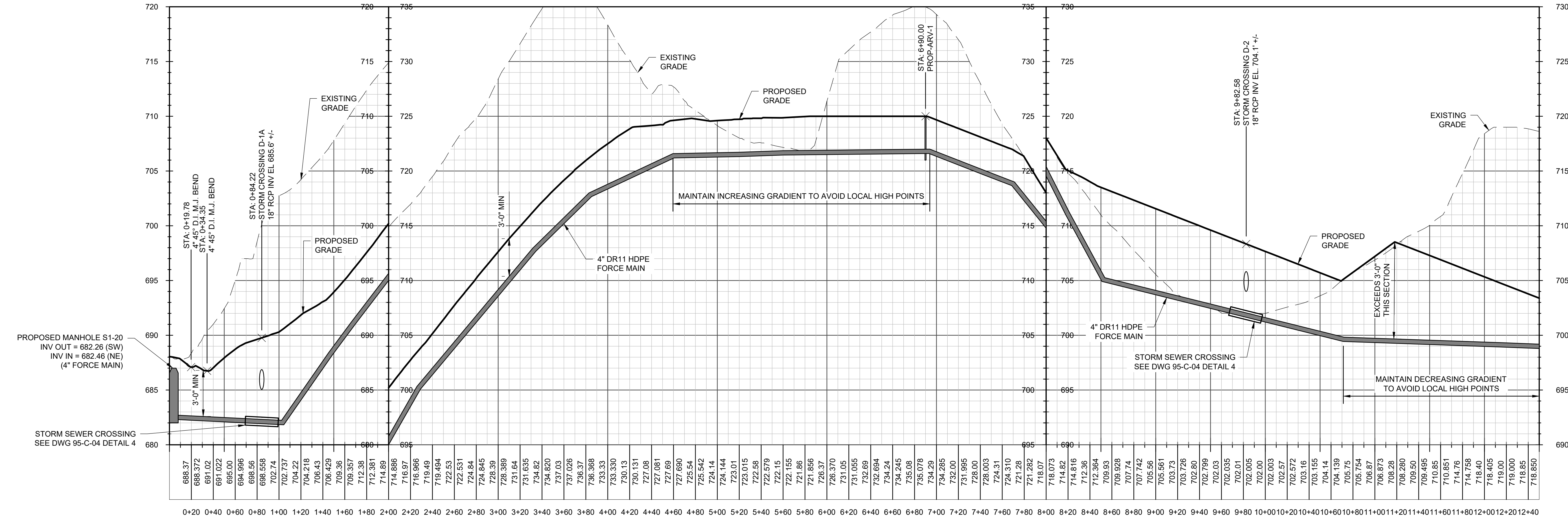
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JOB NO: CC-22068
DATE: JULY 2022
DESIGNED BY: WCE
DRAWN BY: TCW
DWG: 00-C-04
SHEET NUMBER 04

- GENERAL NOTES:**
1. THE CONTRACTOR AND/OR DEVELOPER SHALL NOTIFY THE CITY OF LEEDS DEVELOPMENT SERVICES AT LEAST THREE DAYS PRIOR TO PERFORMING ANY WORK WITHIN THE CITY MAINTAINED ROAD RIGHT OF WAY, OR THAT MUST OTHERWISE BE INSPECTED AND APPROVED BY THE CITY OF LEEDS DEVELOPMENT SERVICES. FAILURE TO NOTIFY THE CITY OF LEEDS DEVELOPMENT SERVICES OF ANY WORK PERFORMED WITHIN THE ROAD RIGHT OF WAY SHALL BE GROUNDS FOR THE CITY ENGINEER TO STOP WORK AND REQUIRE REMOVAL AND/OR RE-CONSTRUCTION AT THE CONTRACTOR/DEVELOPER EXPENSE.
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FORCE MAIN PLAN VIEW
SCALE: 1" = 50'-0"



FORCE MAIN PROFILE VIEW
SCALE: H: 1" = 50'-0" V: 1" = 5'-0"



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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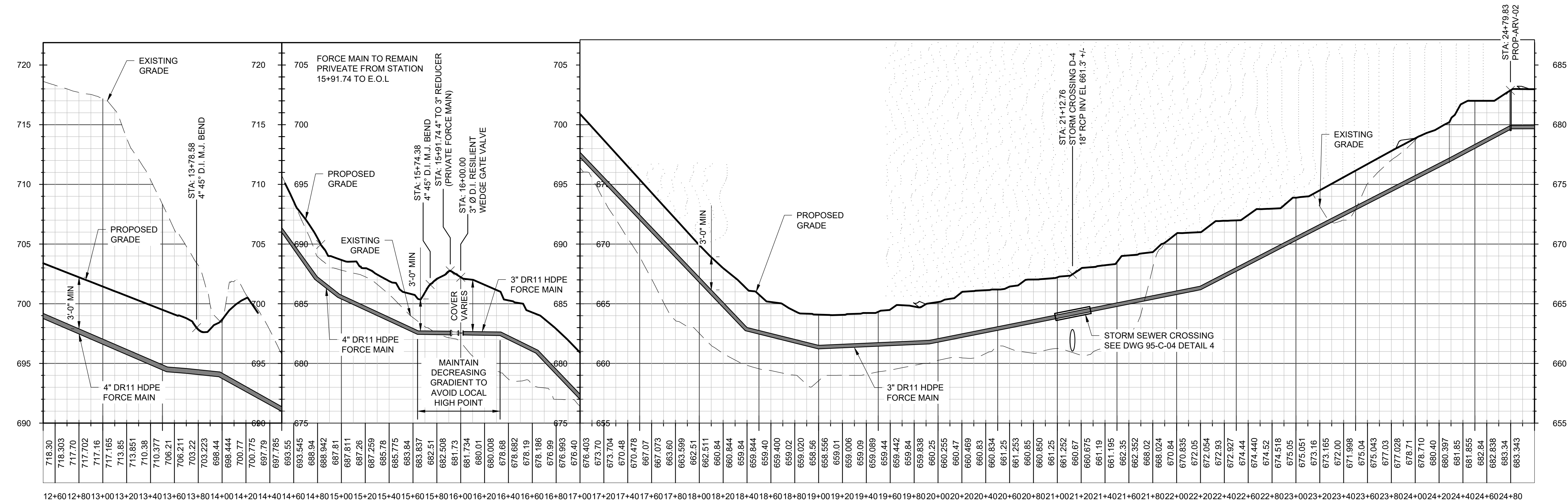
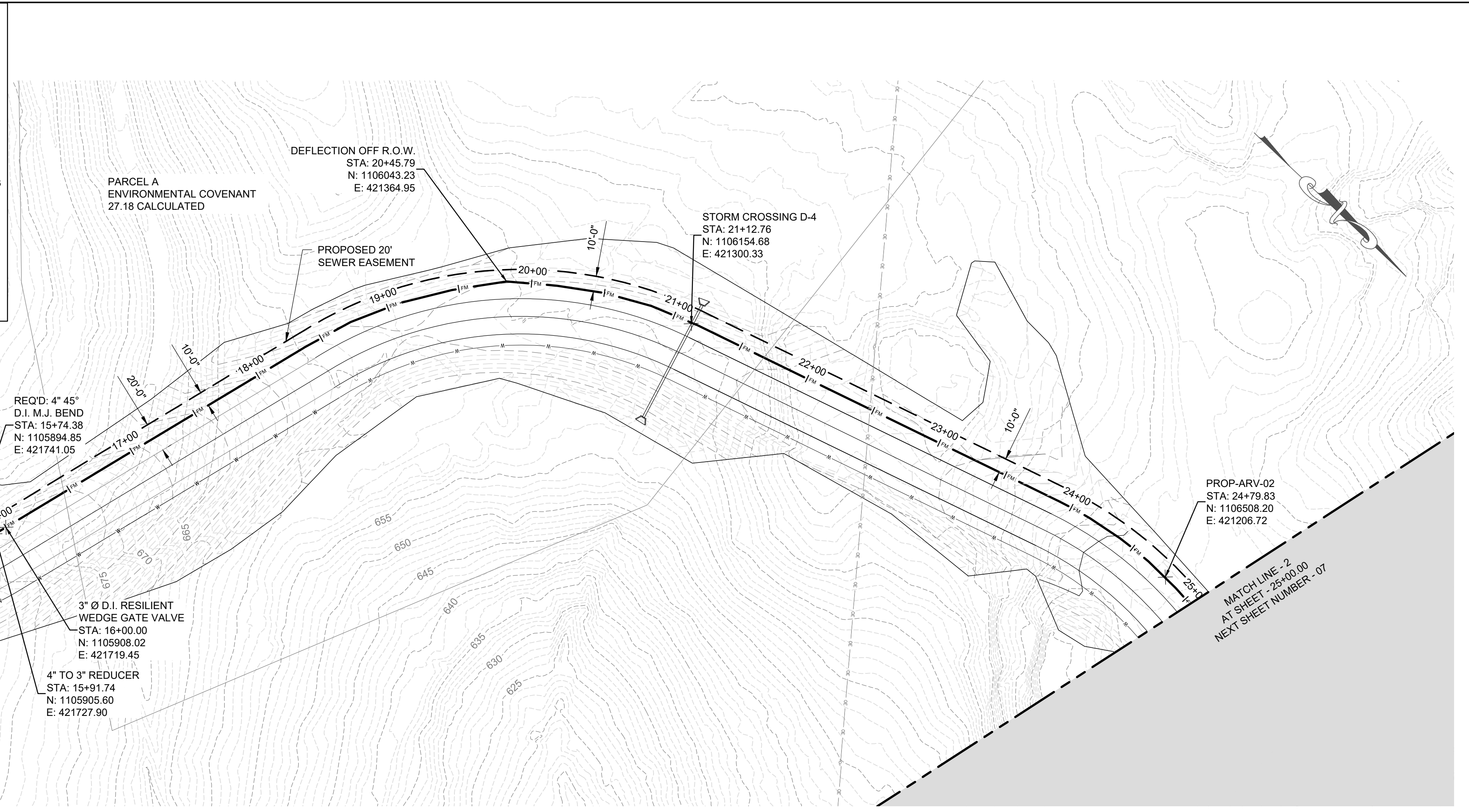
PARCEL 15 FORCE MAIN

FORCE MAIN PLAN & PROFILE - STA 0+00 - 12+50

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: CC-22068
DATE: JULY 2022
DESIGNED BY: WCE
DRAWN BY: TCW
DWG: 10-C-20
SHEET NUMBER: 05

- GENERAL NOTES:**
1. THE CONTRACTOR AND/OR DEVELOPER SHALL NOTIFY THE CITY OF LEEDS DEVELOPMENT SERVICES AT LEAST THREE DAYS PRIOR TO PERFORMING ANY WORK WITHIN THE CITY MAINTAINED ROAD RIGHT OF WAY, OR THAT MUST OTHERWISE BE INSPECTED AND APPROVED BY THE CITY OF LEEDS DEVELOPMENT SERVICES. FAILURE TO NOTIFY THE CITY OF LEEDS DEVELOPMENT SERVICES OF ANY WORK PERFORMED WITHIN THE ROAD RIGHT OF WAY SHALL BE GROUNDS FOR THE CITY ENGINEER TO STOP WORK AND REQUIRE REMOVAL AND/OR RE-CONSTRUCTION AT THE CONTRACTOR/DEVELOPER EXPENSE.
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NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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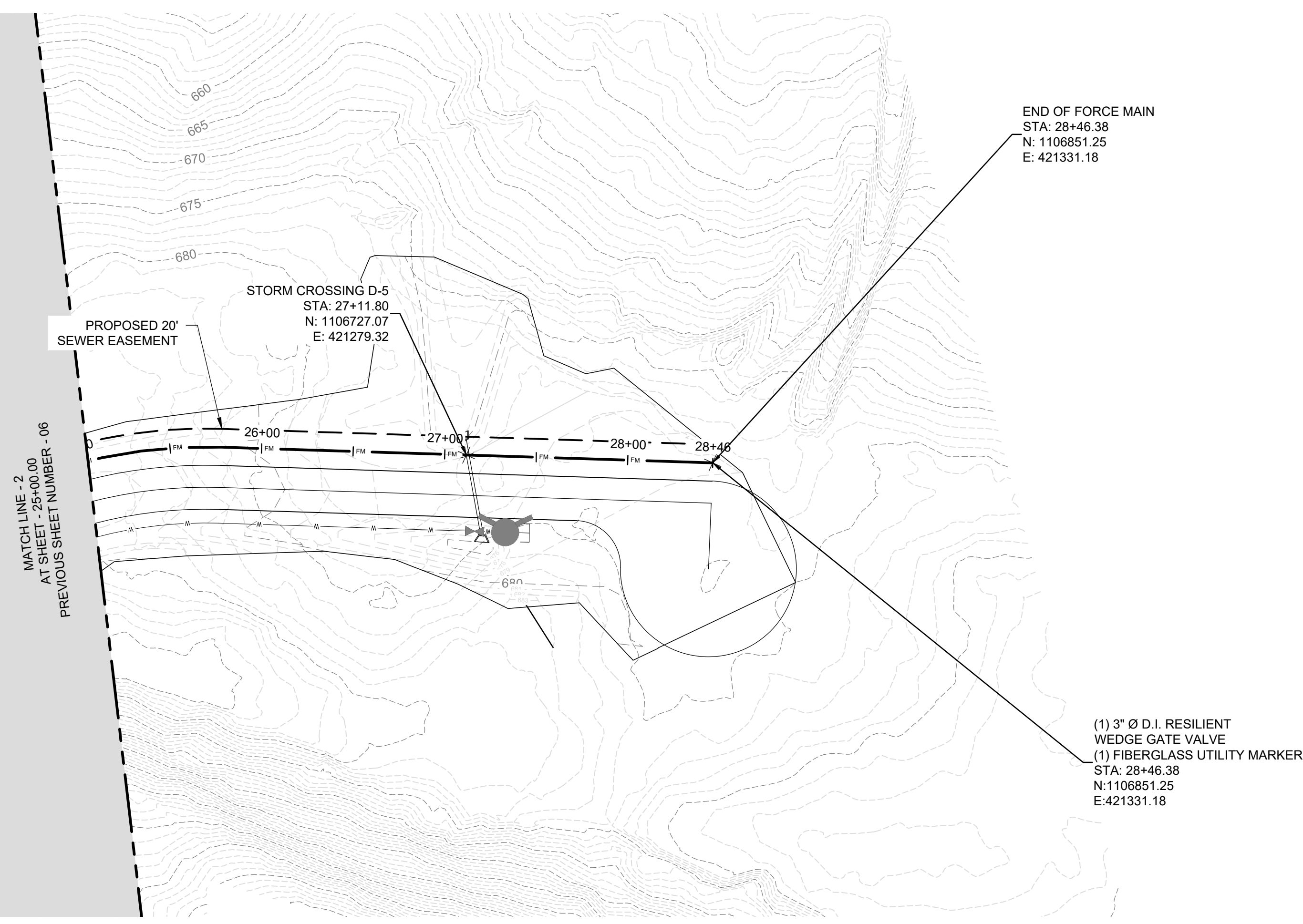
PARCEL 15 FORCE MAIN

FORCE MAIN PLAN & PROFILE - STA 12+50 - 25+00

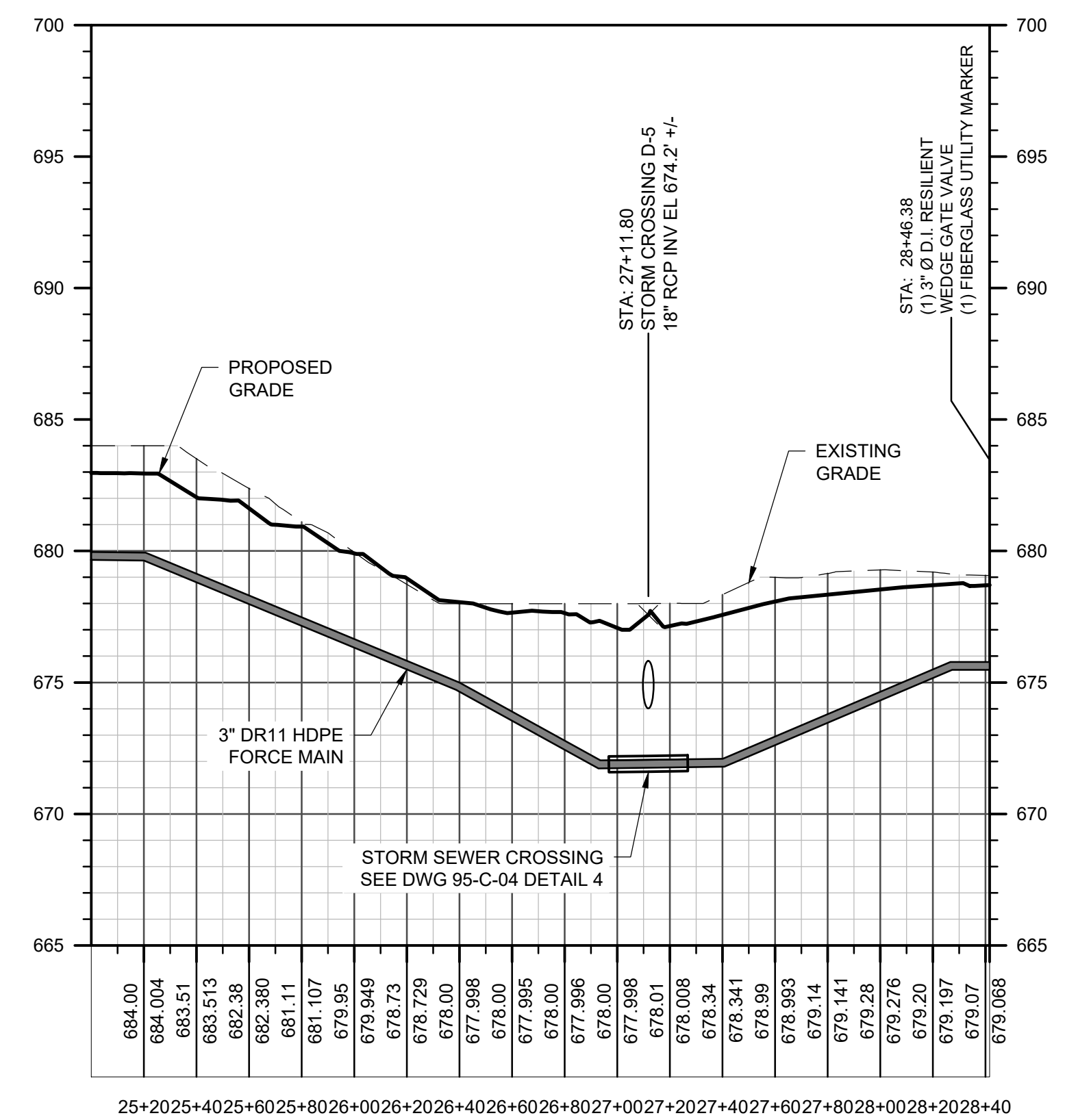
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JOB NO: CC-22068
DATE: JULY 2022
DESIGNED BY: WCE
DRAWN BY: TCW
DWG: 10-C-21
SHEET NUMBER **06**

- GENERAL NOTES:**
1. THE CONTRACTOR AND/OR DEVELOPER SHALL NOTIFY THE CITY OF LEEDS DEVELOPMENT SERVICES AT LEAST THREE DAYS PRIOR TO PERFORMING ANY WORK WITHIN THE CITY MAINTAINED ROAD RIGHT OF WAY, OR THAT MUST OTHERWISE BE INSPECTED AND APPROVED BY THE CITY OF LEEDS DEVELOPMENT SERVICES. FAILURE TO NOTIFY THE CITY OF LEEDS DEVELOPMENT SERVICES OF ANY WORK PERFORMED WITHIN THE ROAD RIGHT OF WAY SHALL BE GROUNDS FOR THE CITY ENGINEER TO STOP WORK AND REQUIRE REMOVAL AND/OR RE-CONSTRUCTION AT THE CONTRACTOR/DEVELOPER EXPENSE.
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FORCE MAIN PLAN VIEW
SCALE: 1" = 50'-0"



FORCE MAIN PROFILE VIEW
SCALE: H: 1" = 50'-0" / V: 1" = 5'-0"



NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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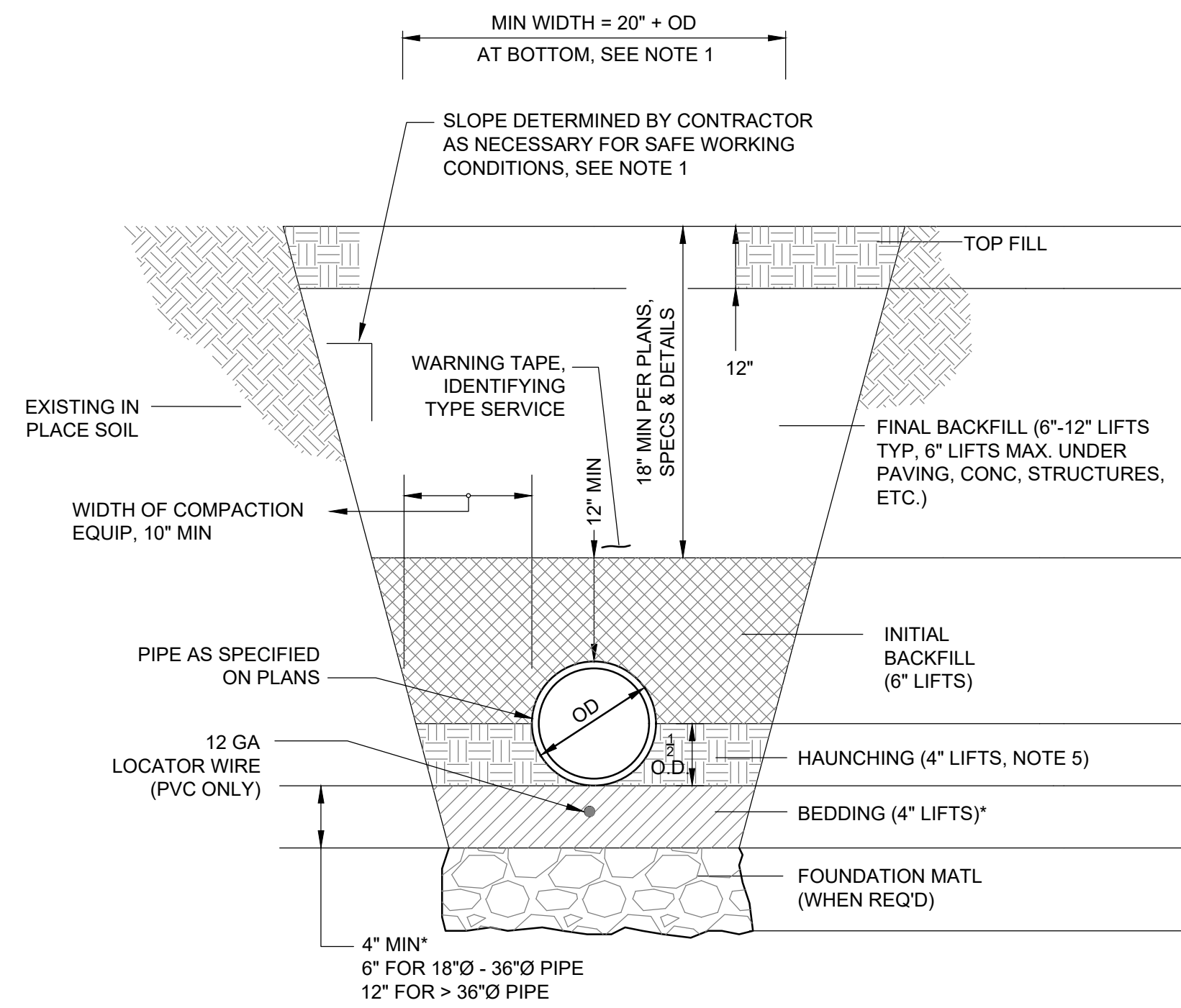
CIVIL CONSULTANTS, INC.
LEEDS, AL

PARCEL 15 FORCE MAIN

FORCE MAIN PLAN & PROFILE - STA 25+00 - END

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: CC-22068
DATE: JULY 2022
DESIGNED BY: WCE
DRAWN BY: TCW
DWG: 10-C-22
SHEET NUMBER **07**



* NOTE: WHERE EXISTING LINES ARE DEEPER & REMOVED FOR THE INSTALLATION OF NEW LINES, THE BEDDING MATERIAL SHALL EXTEND TO THE FULL DEPTH AND WIDTH OF EXCAVATION. THESE COSTS SHALL BE INCLUDED IN THE *PER LF PRICED FOR PIPE.*

BEDDING/BACKFILL REQUIREMENTS & MAT'L DESIGNATIONS (SEE MATERIAL DESIGNATION/DESCRIPTOINS TABLE)								
PRESSURE MAINS			GRAVITY LINES			PAVED AREAS		
DI	CONC	HDPE	DI	CONC	PVC	DI	CONC	PVC
5	5	5	5	5	5	6"	6"	6"
4	4	4	4	4	4	1	1	2
3	3	2	3	3	2	1	1	2
3	3	2	1	1	2	1	1	2
1	1	2	1	1	2	1	1	2

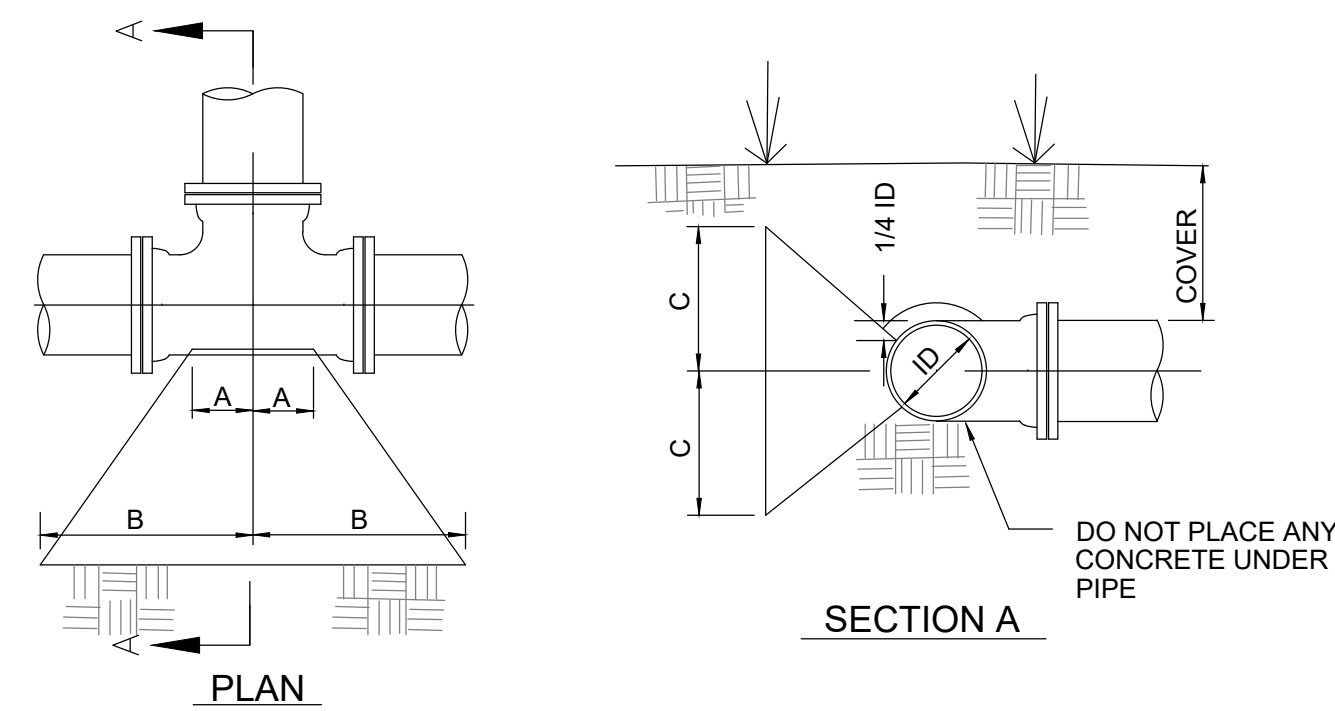
RIP-RAP OR CRUSHED STONE CLASS 1B (USCS IN ASTM D2487)

* SEE NOTE 2
** SEE NOTE 4

- NOTES:**
- SLOPE, BENCHING, SHORING, ETC. AS DETERMINED AND DESIGNED BY THE CONTRACTOR. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE OSHA REGULATIONS FOR "OPEN TRENCH EXCAVATIONS".
 - BEDDING REQ'D FOR ALL GRAVITY LINES, ALL PVC LINES AND ALL CONCRETE LINES. BEDDING REQUIRED IN ALL AREAS OF ROCK EXCAVATION OR UNSUITABLE SOILS. BELL HOLES REQ'D FOR PIPES > 4" DIA. FOR DUCTILE IRON PRESSURE MAINS. SELECT EARTH MAY BE USED FOR BEDDING IN AREAS OF ROCK EXCAVATION.
 - ALL MATERIALS SHALL BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY AT 2%± OPTIMUM MOISTURE CONTENT. MATERIALS UNDER PAVING, CONCRETE, STRUCTURES, ETC. SHALL BE COMPACTED TO MIN 98%-100% STANDARD PROCTOR. MECHANICAL COMPACTION SHALL BE BY VIBRATORY SHEEPSFOOT OR OTHER EQUIP. SPECIFICALLY DESIGNED FOR THE COMPACTION OF EARTH. COMPACTION EQUIP. SHALL BE ON-SITE PRIOR TO BEGINNING OF WORK. MECHANICAL COMPACTION SHALL BE COMPLETED IN LOOSE LIFTS AS SHOWN ON THE DETAIL.
 - TEMPORARY COMPACTED PUG-MIX BACKFILL REQ'D UNTIL PAVEMENT PLACEMENT IS COMPLETE. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THIS PUGMIX TO KEEP IT FLUSH WITH THE ADJACENT PAVING, ETC. UNTIL THE FINAL PAVING IS PLACED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ASPHALT OR CONCRETE PATCHES WHEN NEEDED FOR PUBLIC SAFETY AND/OR CONVENIENCE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND UTILIZE APPROPRIATE MEANS AND METHODS OF CONSTRUCTION TO ENSURE THAT THE ENTIRE AREAS UNDER THE HAUNCHES OF THE PIPE ARE FILLED WITH THE REQUIRED MATERIALS AND COMPACTED APPROPRIATELY.
 - ADDITIONAL AND/OR SPECIAL REQUIREMENTS MAY BE REQ'D BY THE PLANS, SPECIFICATIONS AND/OR CONTRACT DOCUMENTS.
 - TO THE EXTENT POSSIBLE, AS DETERMINED BY THE CONTRACTOR, TRENCH WALL SHORING METHODS SHALL BE USED IN PAVED AREAS TO MINIMIZE PAVING REPAIR REQUIREMENTS.

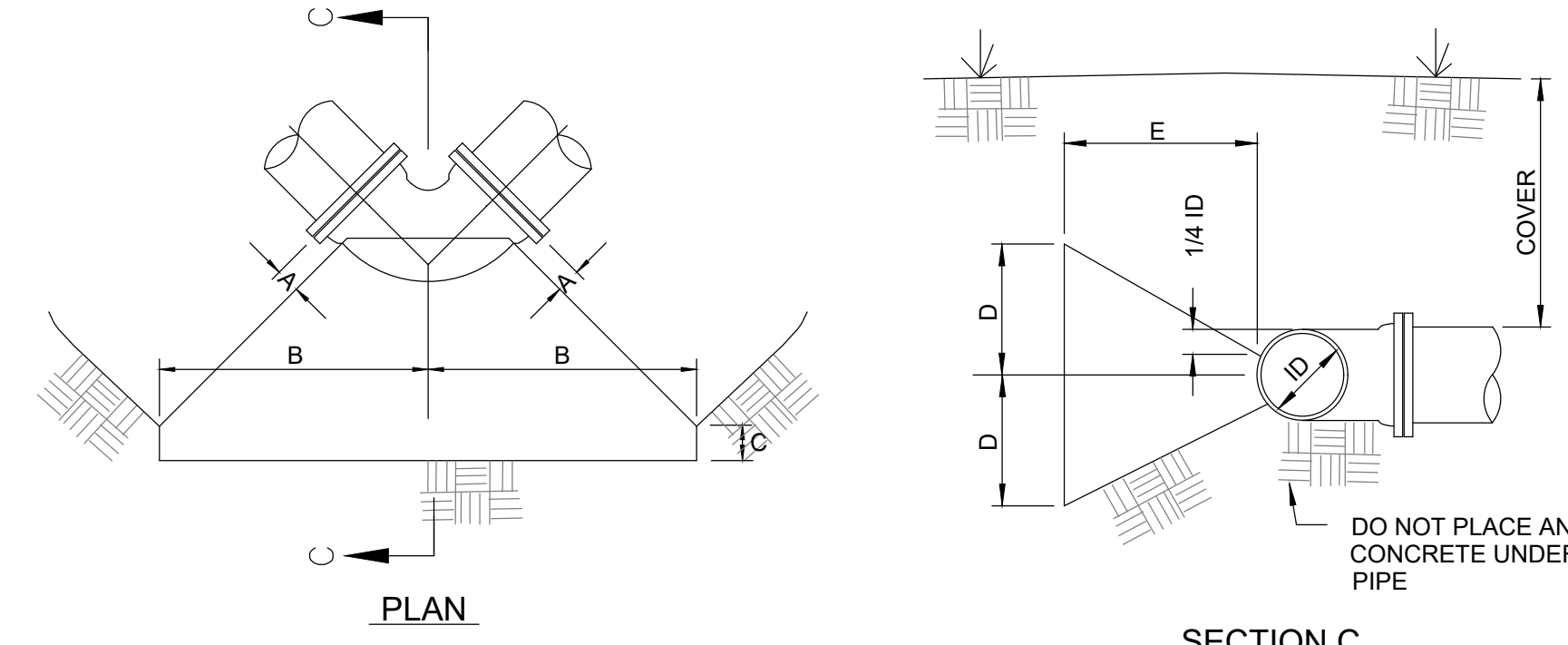
MATERIAL DESIGNATION/DESCRIPTOINS TABLE	
DESIGNATION/ MATERIALS	DESCRIPTION:
1	CRUSHED STONE, ASTM-448 NO. 57 GRADATION
2	CRUSHED STONE, ASTM-448 NO. 67 GRADATION. SAND SHALL BE USED AS SUBSTITUTE IN RESIDENTIAL LAWNS, YARDS, AND LANDSCAPED AREAS.
3	SELECT EXCAVATED MAT'L REASONABLY DRY (WITHIN LIMITS REQ'D FOR COMPACTION) NO STONES > 1" DIA.
4	EXCAVATED MAT'L REASONABLY DRY (WITHIN LIMITS REQ'D FOR COMPACTION) NO STONES > 12" DIA.
5	SELECT TOPSOIL MAT'L TO SUPPORT VEGETATION, NO STONES OR ROCK ALLOWED
6	CRUSHED STONE, MOIST "PUG-MIX" PER ALDOT SECTION 825

1 BEDDING AND BACKFILL FOR TRENCHES
95-C-01 SCALE: NOT TO SCALE



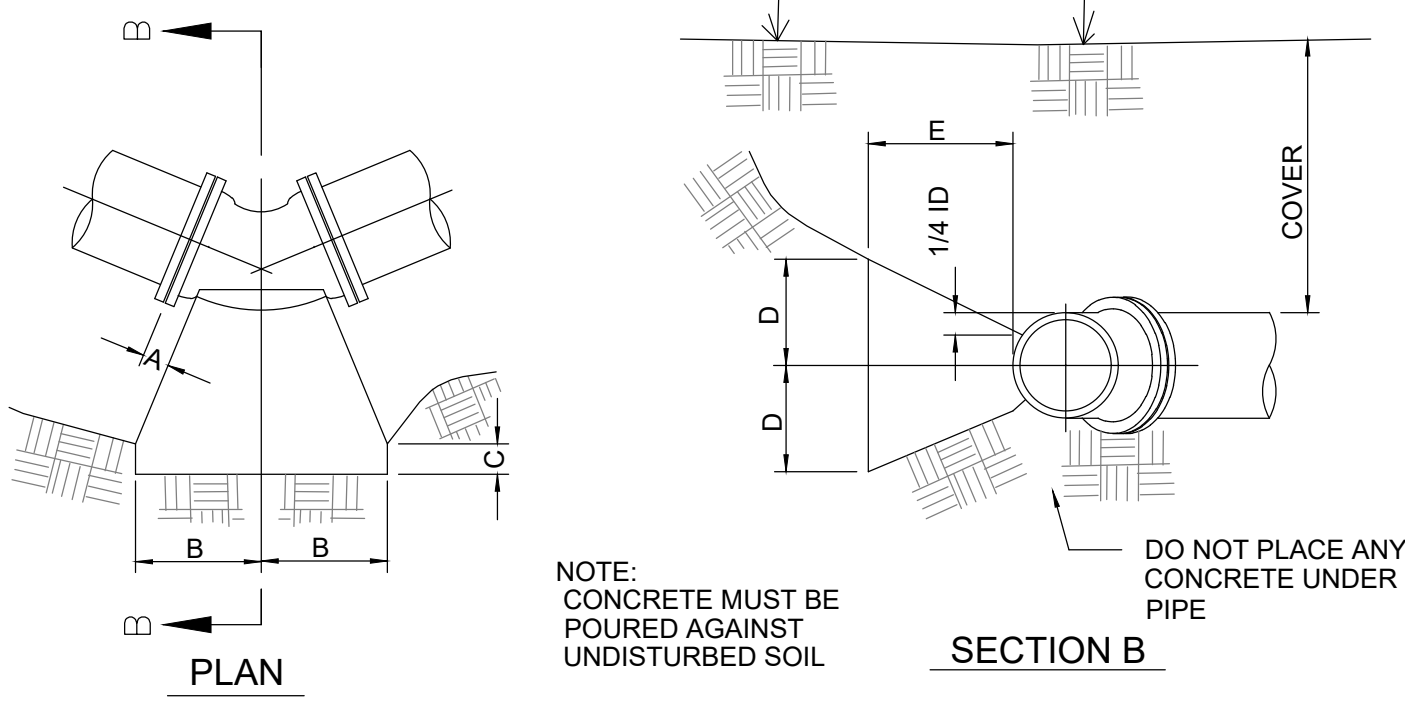
TYPICAL CONCRETE BRACING FOR TEES

PIPE DIA.	A	B	C	MIN COVER
4"	5"	5"	6"	2'-6"
6"	6"	8"	9"	2'-6"
8"	7"	1'-1"	1'-0"	2'-6"
10"	9"	1'-6"	1'-3"	3'-0"
12"	10"	1'-10"	1'-6"	3'-0"
14"	11 1/2"	1'-9"	1'-9"	3'-0"
16"	1'-0 1/2"	2'-0"	2'-0"	3'-0"
18"	1'-2"	2'-4"	2'-3"	3'-0"
20"	1'-3 1/2"	2'-6"	2'-6"	3'-6"
24"	1'-7 1/2"	3'-0"	3'-0"	3'-6"
30"	1'-10"	3'-4"	3'-9"	4'-0"
36"	2'-1"	3'-6"	4'-6"	4'-6"
48"	2'-7"	4'-0"	5'-0"	4'-6"
54"	3'-3"	4'-3"	5'-4"	5'-0"



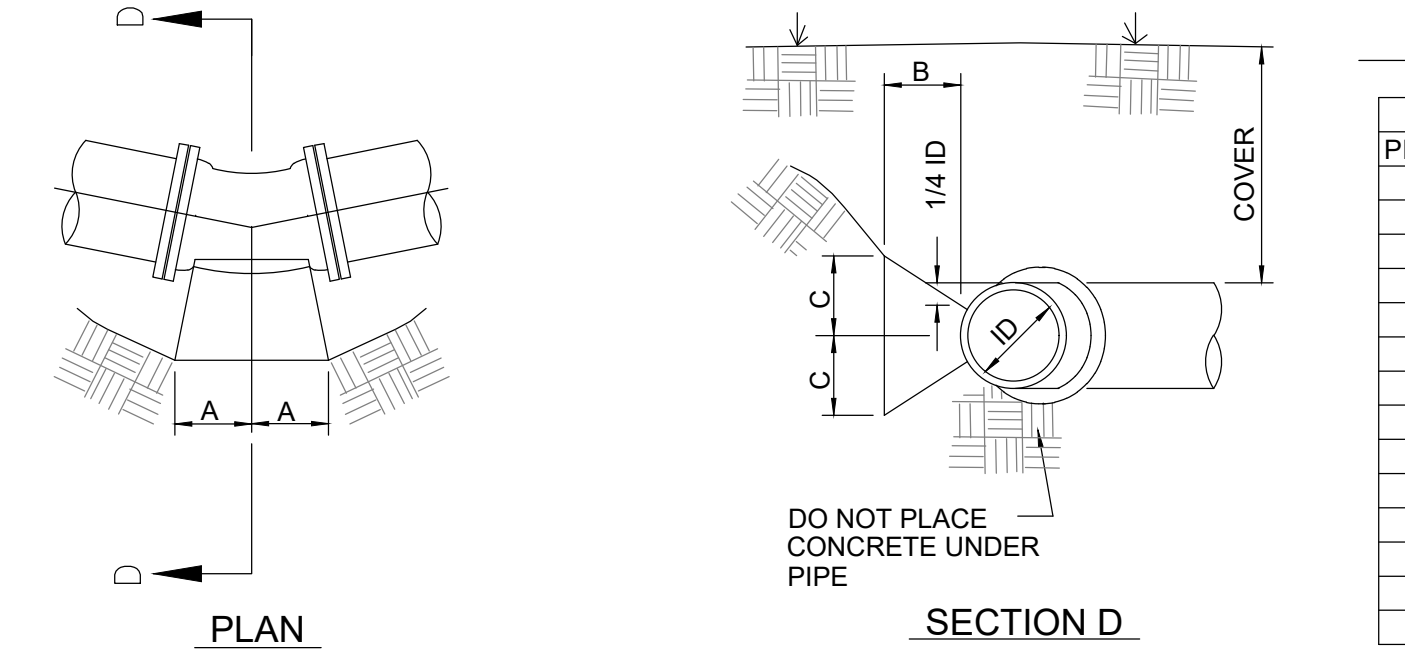
CONCRETE BRACING FOR 90° BENDS

PIPE DIA.	A	B	C	D	E	MIN COVER
4"	4 1/2"	6"	1'-8"	6"	1'-10"	2'-6"
6"	4 1/2"	1'-0"	1'-7"	9"	1'-9"	2'-6"
8"	4 1/2"	1'-3"	1'-6"	1'-0"	1'-9"	2'-6"
10"	4 1/2"	2'-1"	1'-1"	1'-3"	1'-11"	3'-0"
12"	4 1/2"	2'-6"	1'-0"	1'-6"	1'-11"	3'-0"
14"	6"	2'-6"	1'-2"	1'-9"	2'-0"	3'-0"
16"	6"	2'-11"	1'-0"	2'-0"	2'-1"	3'-0"
18"	6"	3'-4"	10"	2'-3"	2'-2"	3'-0"
20"	6"	3'-6"	11"	2'-6"	2'-3"	3'-6"
24"	7"	4'-3"	8"	3'-0"	2'-5"	3'-6"
30"	8"	4'-7"	6"	3'-3"	2'-5"	4'-0"
36"	8"	5'-0"	6"	3'-6"	2'-10"	4'-6"
48"	9"	5'-4"	4"	3'-9"	3'-1"	4'-6"
54"	9"	5'-6"	4"	4'-0"	3'-7"	5'-0"



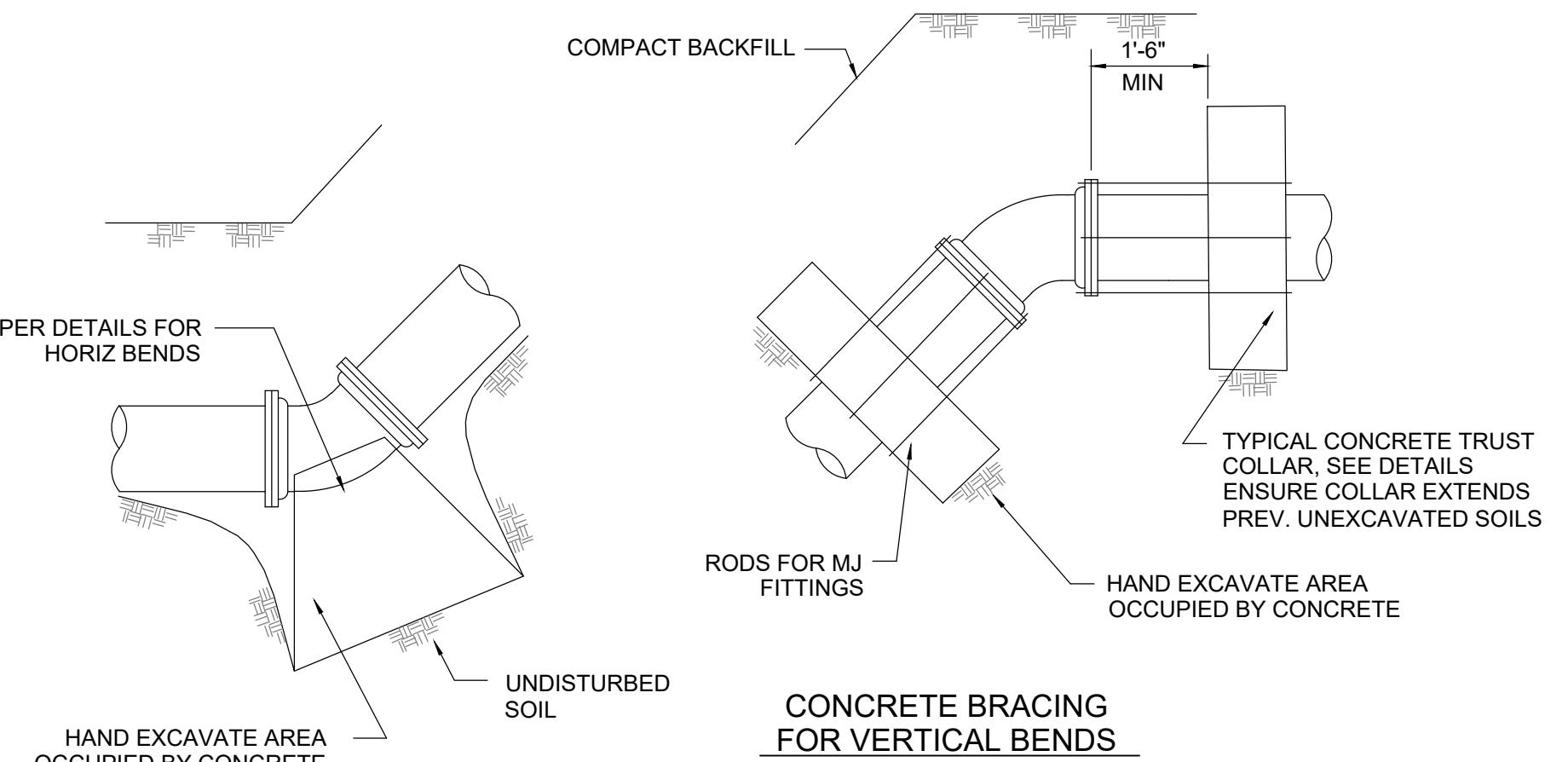
TYPICAL CONCRETE BRACING FOR 45° BENDS

PIPE DIA.	A	B	C	D	E	MIN COVER
4"	4 1/2"	3 1/2"	1'-0"	6"	1'-1"	2'-6"
6"	4 1/2"	6 1/2"	9"	9"	1'-2"	2'-6"
8"	4 1/2"	10"	3"	1'-0"	1'-2"	2'-6"
10"	4 1/2"	1'-1 1/2"	-	1'-3"	1'-4"	3'-0"
12"	6"	1'-4 1/2"	-	1'-6"	1'-8"	3'-0"
14"	6"	1'-4 1/2"	-	1'-9"	1'-8"	3'-0"
16"	6"	1'-7"	-	2'-0"	1'-10"	3'-0"
18"	6"	1'-9 1/2"	-	2'-3"	2'-4"	3'-0"
20"	6"	1'-11"	-	2'-6"	2'-4"	3'-6"
24"	7"	2'-3"	-	3'-0"	2'-10"	3'-6"
30"	8"	2'-6"	-	3'-3"	2'-10"	4'-0"
36"	8"	2'-10"	-	3'-6"	3'-3"	4'-6"
48"	8"	3'-1"	-	3'-9"	3'-6"	4'-6"
54"	9"	3'-4"	-	4'-0"	4'-0"	5'-0"



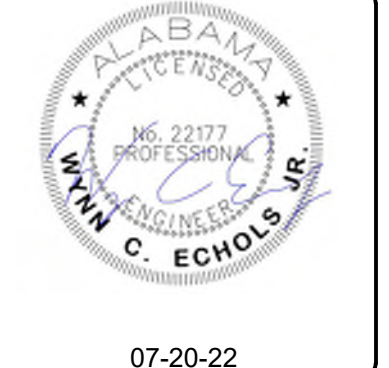
TYPICAL CONCRETE BRACING FOR 11 1/4° & 22 1/2° BENDS

PIPE DIA.	22 1/2° BENDS				11 1/4° BENDS			
	A	B	C	MIN COVER	A	B	C	MIN COVER
4"	2"	1'-1"	4"	2'-6"	2"	1'-0"	3"	2'-6"
6"	4"	1'-0"	6"	2'-6"	2"	1'-0"	4"	2'-6"
8"	6"	1'-0"	8"	3'-0"	4"	1'-0"	5"	3'-0"
10"	8"	1'-1"	10"	3'-0"	5"	1'-0"	6"	3'-0"
12"	11"	1'-7"	1'-0"	5'-0"	6"	1'-0"	7"	3'-0"
14"	12"	2'-1"	1'-2"	5'-0"	8"	1'-0"	8"	3'-0"
16"	1'-1"	2'-5"	1'-8"	5'-0"	10"	1'-0"	9"	3'-0"
18"	1'-0"	2'-1"	1'-10"	5'-0"	1'-0"	1'-0"	10"	3'-6"
20"	1'-2"	2'-1"	2'-1"	5'-0"	1'-1"	1'-0"	1'-0"	3'-6"
24"	1'-5"	2'-10"	2'-6"	5'-0"	1'-3"	1'-0"	1'-3"	4'-0"
30"	1'-9"	2'-10"	2'-8"	5'-0"	1'-7"	1'-3"	1'-5"	4'-6"
36"	2'-0"	3'-2"	3'-1"	5'-0"	1'-10"	1'-3"	1'-9"	4'-6"
48"	2'-6"	3'-10"	3'-6"	5'-0"	2'-4"	1'-6"	2'-2"	5'-0"
54"	2'-10"	4'-0"	3'-10"	5'-0"	2'-8"	1'-6"	2'-5"	5'-0"



2 THRUST RESTRAINT FOR FITTINGS ON PRESSURE MAINS
95-C-01 SCALE: NOT TO SCALE

- NOTES:**
- GENERAL DIMENSIONS SHALL BE CONSIDERED AS MINIMUMS, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL AS REQUIRED FOR ACTUAL FIELD CONDITIONS ENCOUNTERED. CONTRACTOR TO ENSURE ALL THRUST RESTRAINT IS ADEQUATE.
 - ALL CONCRETE FOR THRUST RESTRAINT SHALL BEAR AGAINST FIRM UNDISTURBED SOILS.
 - CONTRACTOR SHALL WRAP ALL ACCESSORIES BOLTS, NUTS, CONNECTIONS, ETC. IN PLASTIC SUCH THAT THEY CAN BE REMOVED WITHOUT THE NEED FOR CONCRETE REMOVAL.
 - UNLESS IND. OTHERWISE IN PLANS, ALL FITTINGS SHALL BE RJ OR MJ WITH RETRAINING FOLLOWER GLANDS. RESTRAINING FOLLOWER GLANDS SHALL BE MEGA-LUG, ROMAC, OR EQUAL. RETAINER GLANDS NOT ALLOWED.



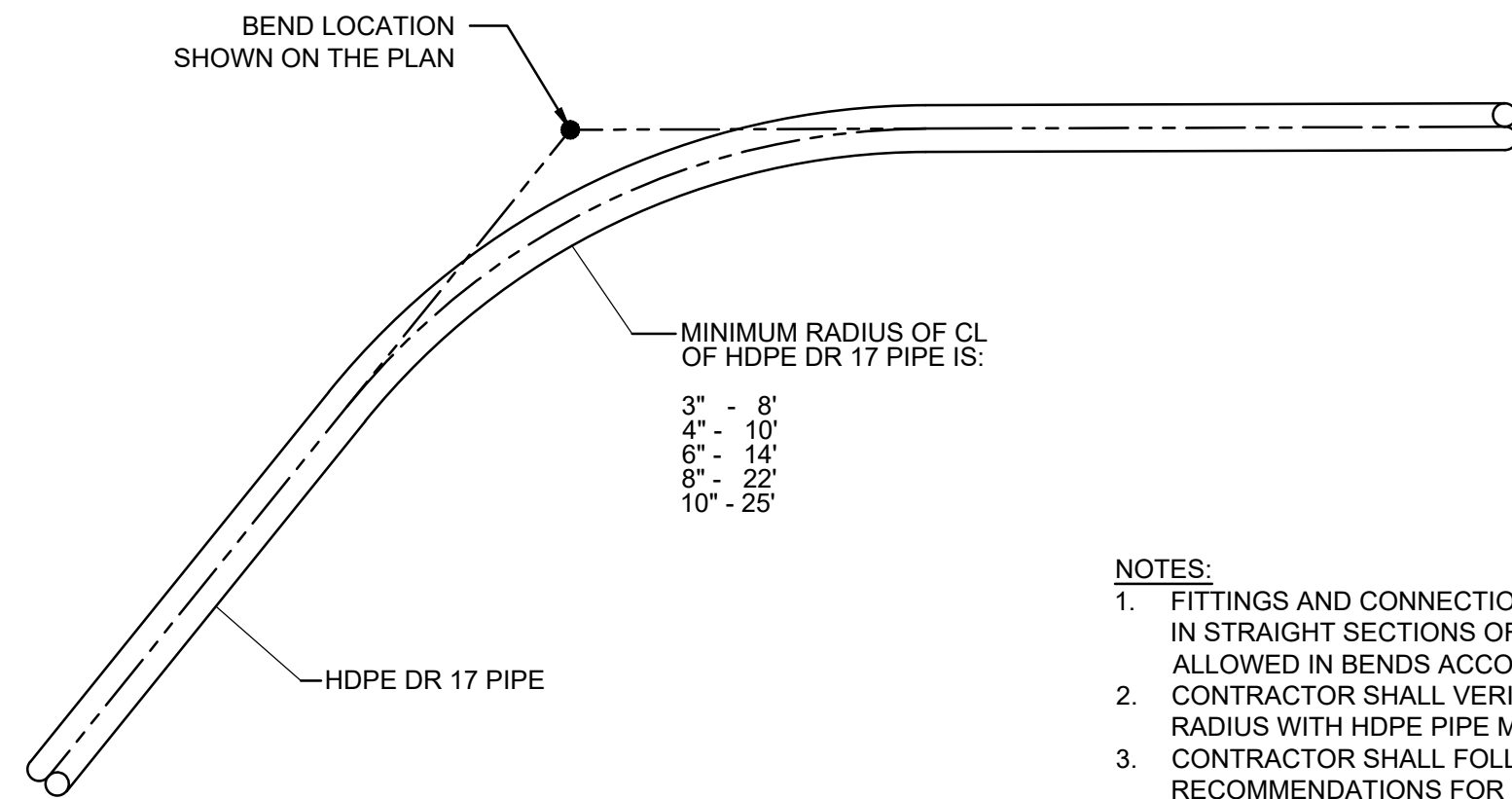
NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT

CIVIL CONSULTANTS, INC.
LEEDS, AL
PARCEL 15 FORCE MAIN

TYPICAL DETAILS THRUST RESTRAINT

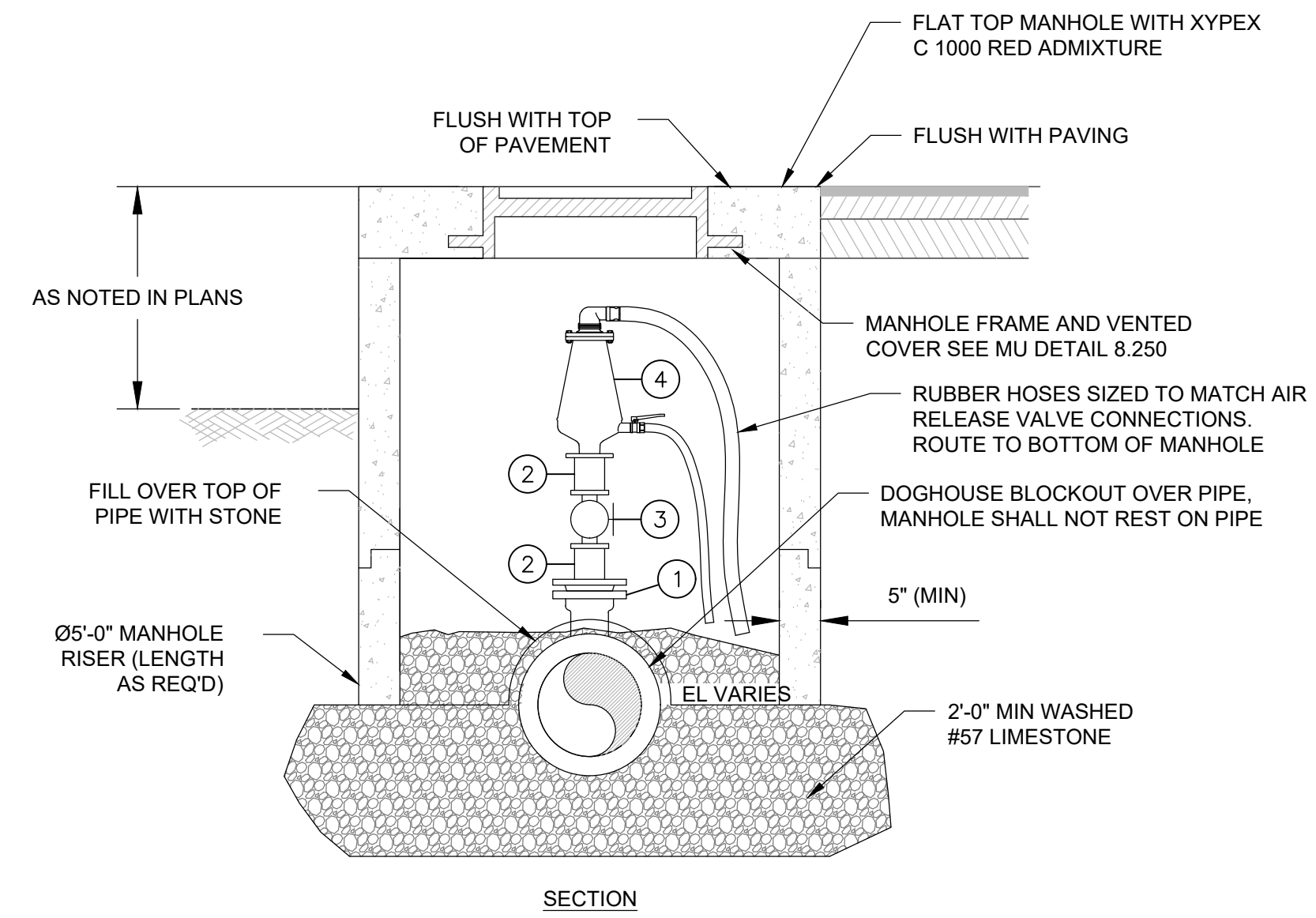
BOX IS 2 IN WIDE AT FULL SCALE

JOB NO:	CC-22068
DATE:	JULY 2022
DESIGNED BY:	WCE
DRAWN BY:	TCW
DWG:	95-C-01
SHEET NUMBER	08

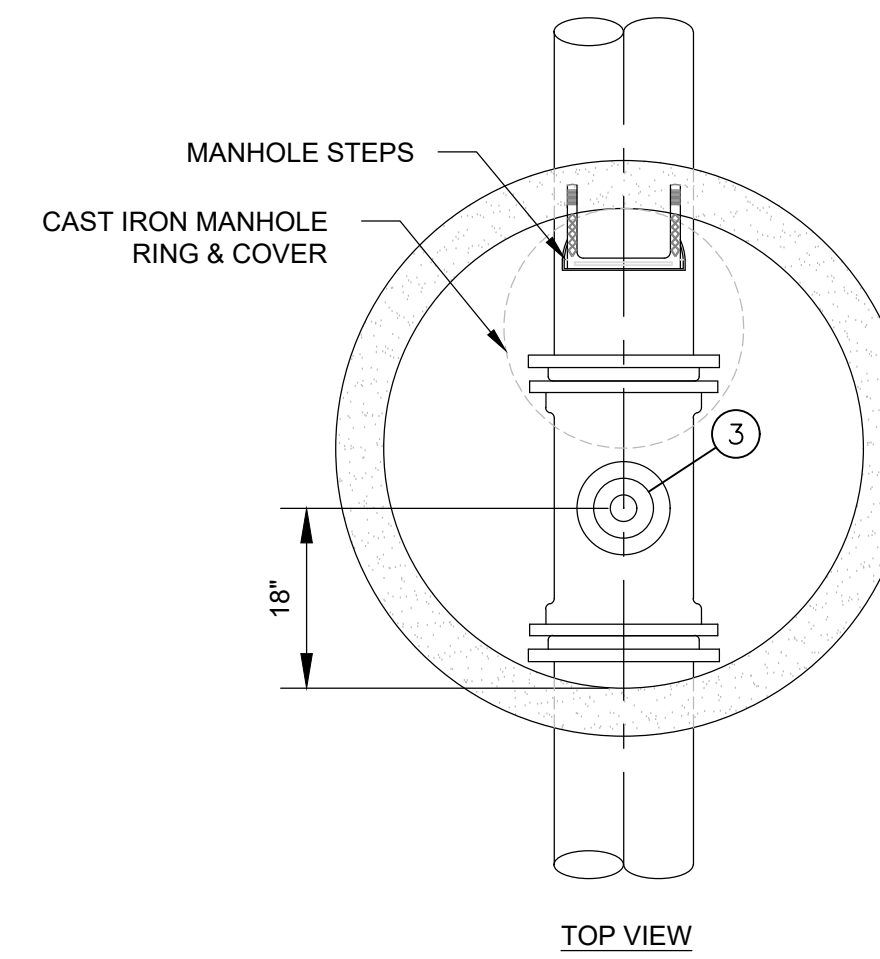


- NOTES:**
1. FITTINGS AND CONNECTIONS SHALL ONLY BE MADE IN STRAIGHT SECTIONS OF PIPE AND SHALL NOT BE ALLOWED IN BENDS ACCOMPLISHED BY DEFLECTION.
 2. CONTRACTOR SHALL VERIFY ALLOWABLE BENDING RADIUS WITH HDPE PIPE MANUFACTURER.
 3. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER RECOMMENDATIONS FOR DEFLECTING HDPE PIPE.

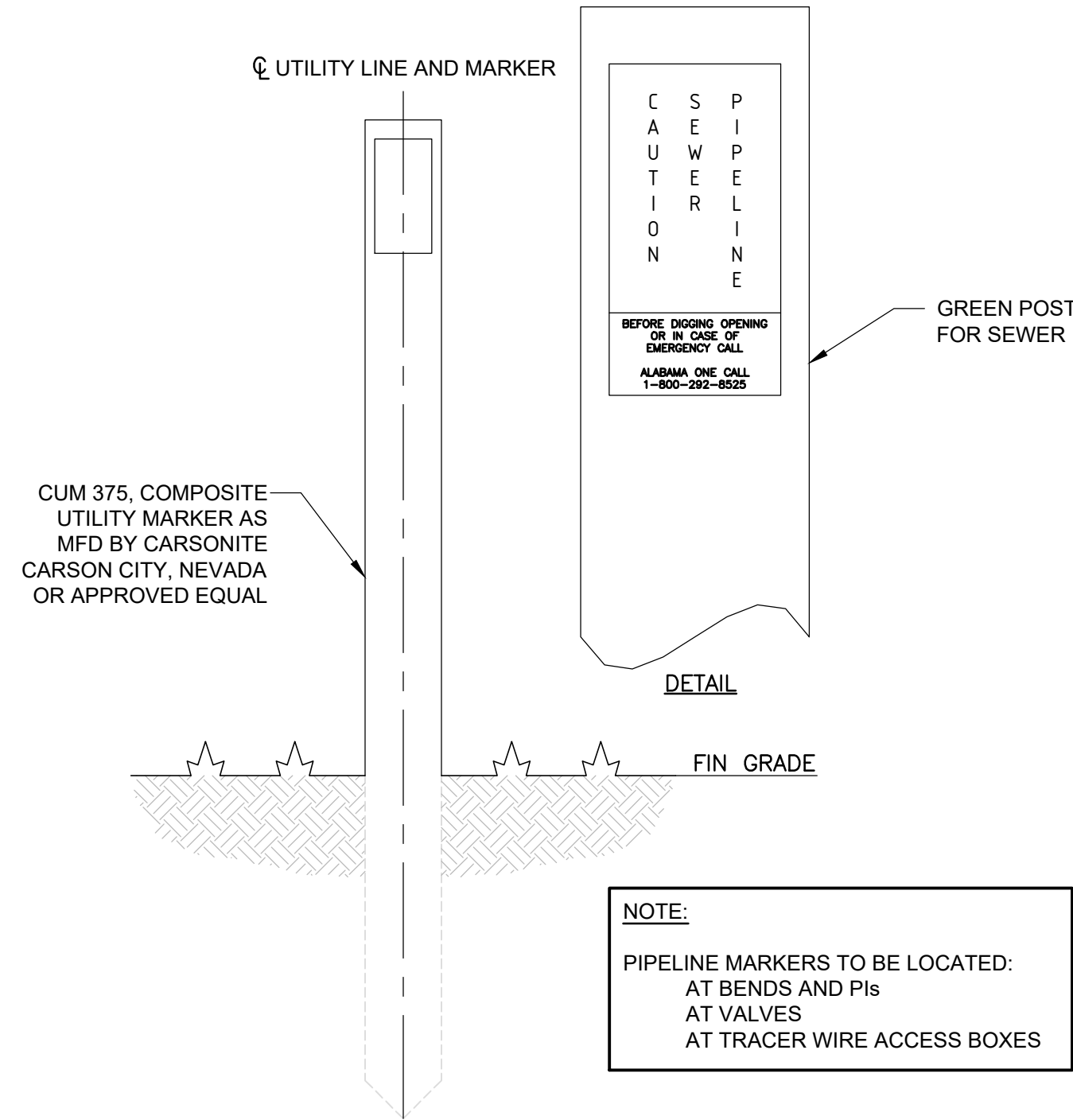
1 HDPE BEND DETAIL
SCALE: NOT TO SCALE



- FITTINGS LIST**
- 1 16"x4" HDPE OR DI MJ PROTECTO 401 LINED TEE (WITH MJ ADAPTERS) WITH THREADED PLUG
 - 2 3" SS NIPPLE
 - 3 3" THREADED SS BALL VALVE
 - 4 3" SS AUTOMATIC AIR AND VACUUM RELEASE ARI MODEL D-26, H-TEC MODEL 986SS2T



2 AIR RELEASE VALVE
SCALE: NOT TO SCALE



3 UTILITY LINE MARKER
SCALE: NOT TO SCALE

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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CIVIL CONSULTANTS, INC.
LEEDS, AL

PARCEL 15 FORCE MAIN

MISCELLANEOUS DETAILS SHEET #2

BOX IS 2 IN WIDE AT FULL SCALE

JOB NO: CC-22068
DATE: JULY 2022
DESIGNED BY: WCE
DRAWN BY: TCW
DWG: 95-C-03

SHEET NUMBER **10**

NO	DATE	DESCRIPTION	FOR REVIEW AND COMMENT	AS-BID	CONSTRUCTION REVISIONS	AS-BUILT
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CIVIL CONSULTANTS, INC.
LEEDS, AL

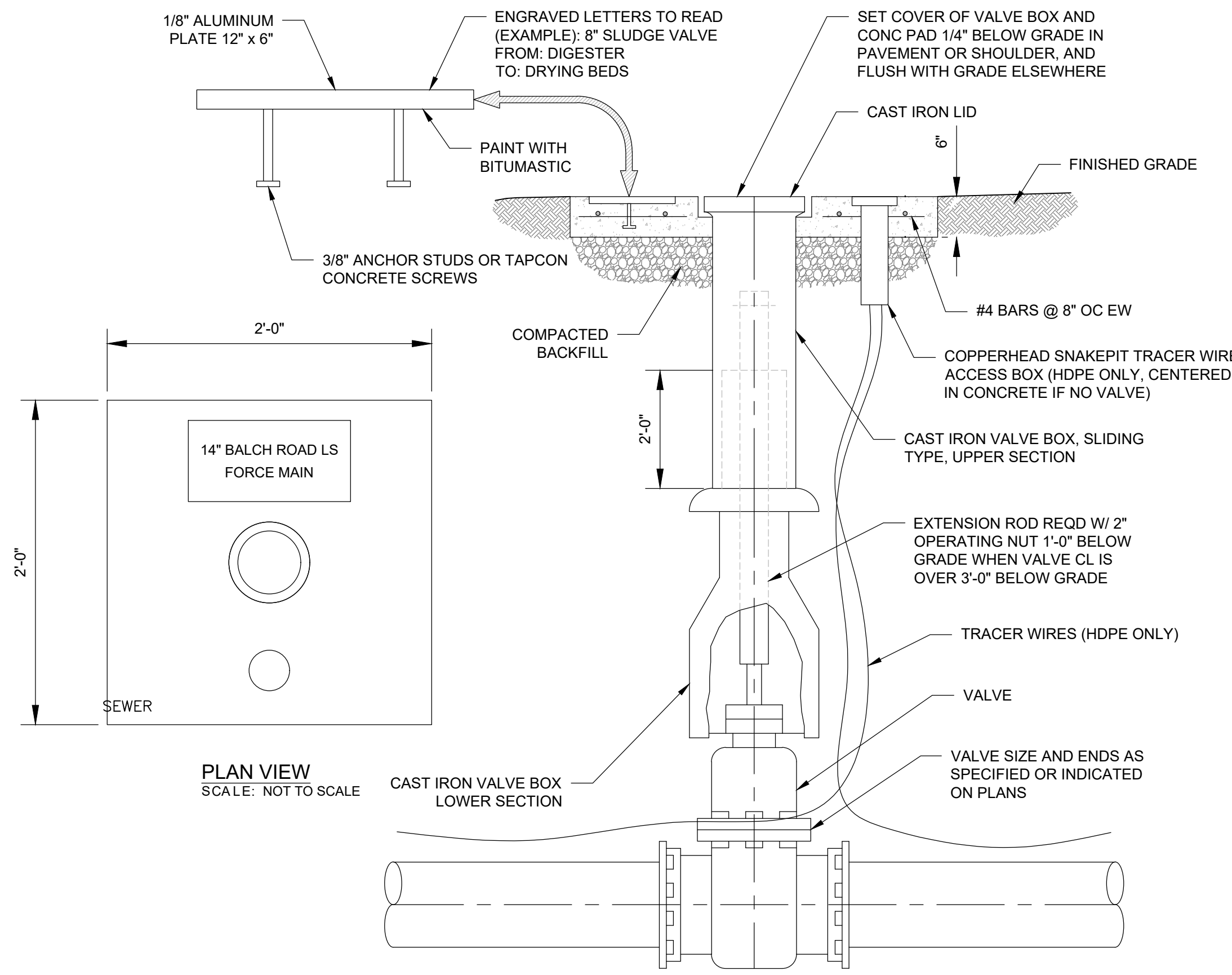
PARCEL 15 FORCE MAIN

MISCELLANEOUS
DETAILS SHEET #3

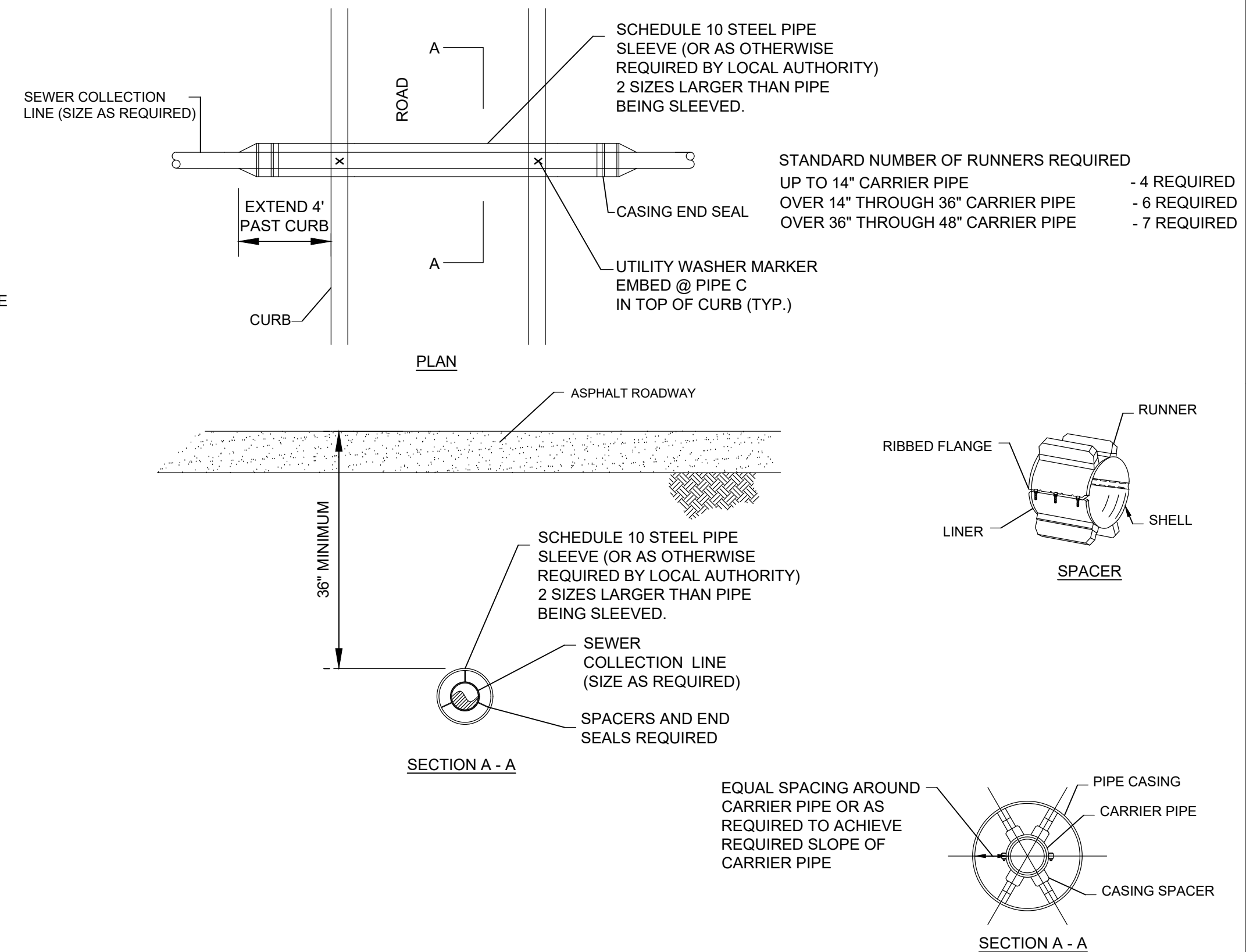
BOX IS 2 IN WIDE
AT FULL SCALE

JOB NO: CC-22068
DATE: JULY 2022
DESIGNED BY: WCE
DRAWN BY: TCW
DWG: 95-C-04

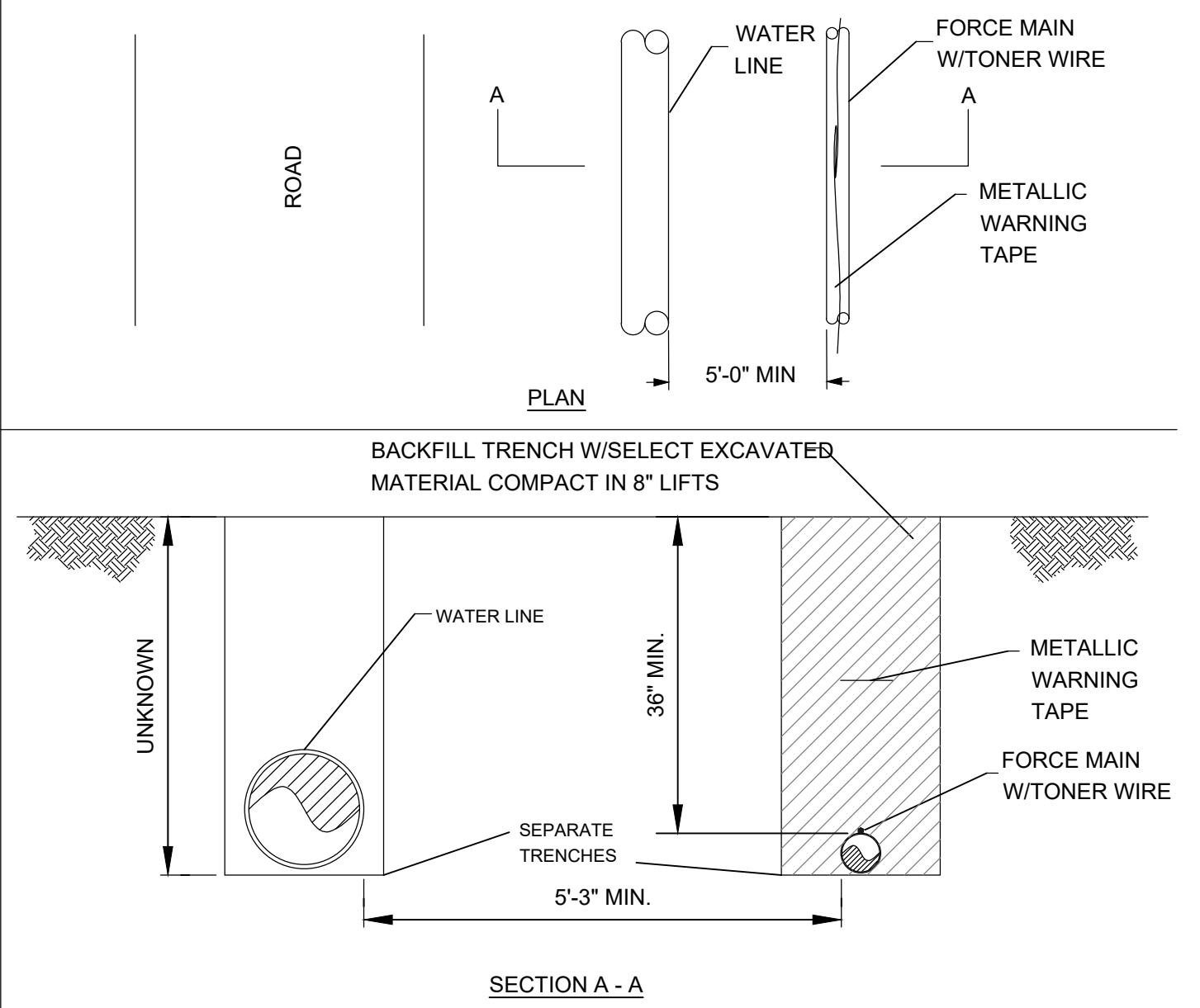
SHEET NUMBER **11**



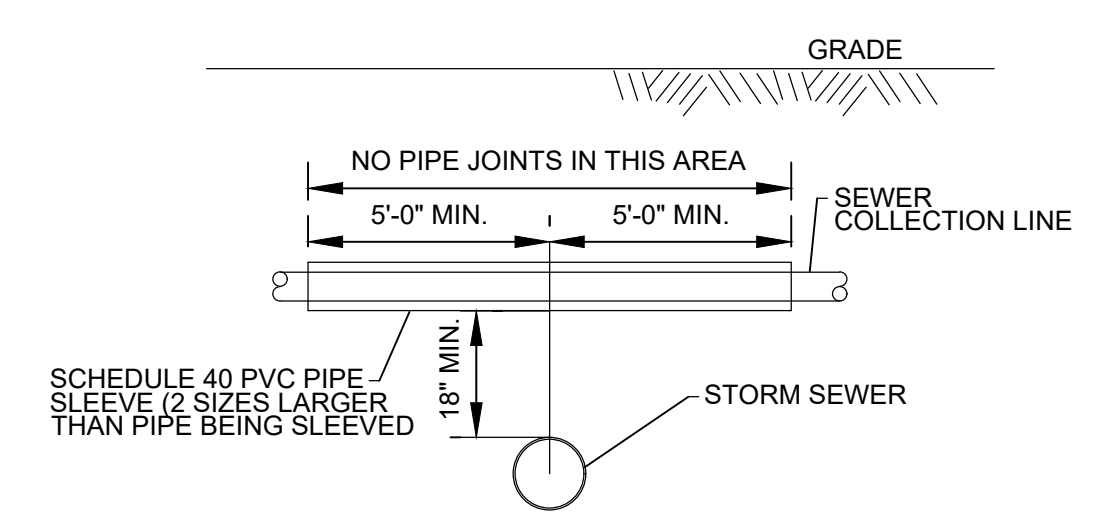
1 BURIED VALVE BOX
95-C-04 SCALE: NOT TO SCALE



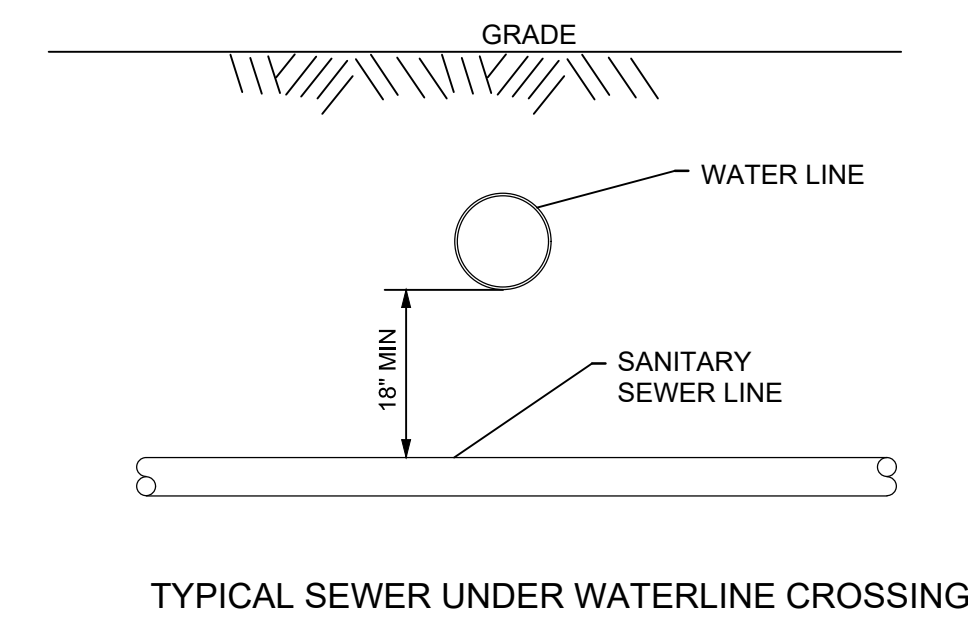
2 TYPICAL SEWER LINE ROAD CROSSING
95-C-04 SCALE: NOT TO SCALE



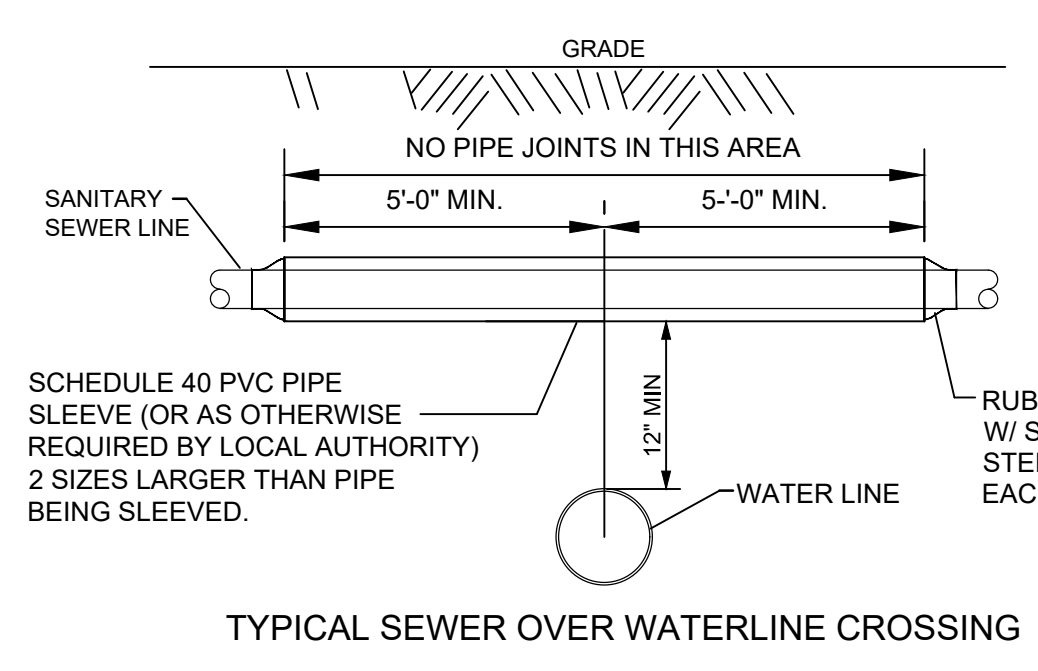
3 TYPICAL UTILITY LINE SEPERATOR DETAIL
95-C-04 SCALE: NOT TO SCALE



4 TYPICAL STORM SEWER CROSSING
95-C-04 SCALE: NOT TO SCALE



TYPICAL SEWER UNDER WATERLINE CROSSING



TYPICAL SEWER OVER WATERLINE CROSSING

5 TYPICAL UTILITY LINE CROSSING DETAIL
95-C-04 SCALE: NOT TO SCALE