

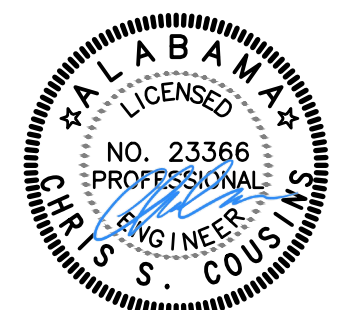
SHELBY COUNTY COMMISSION

PROPOSED WATER IMPROVEMENTS

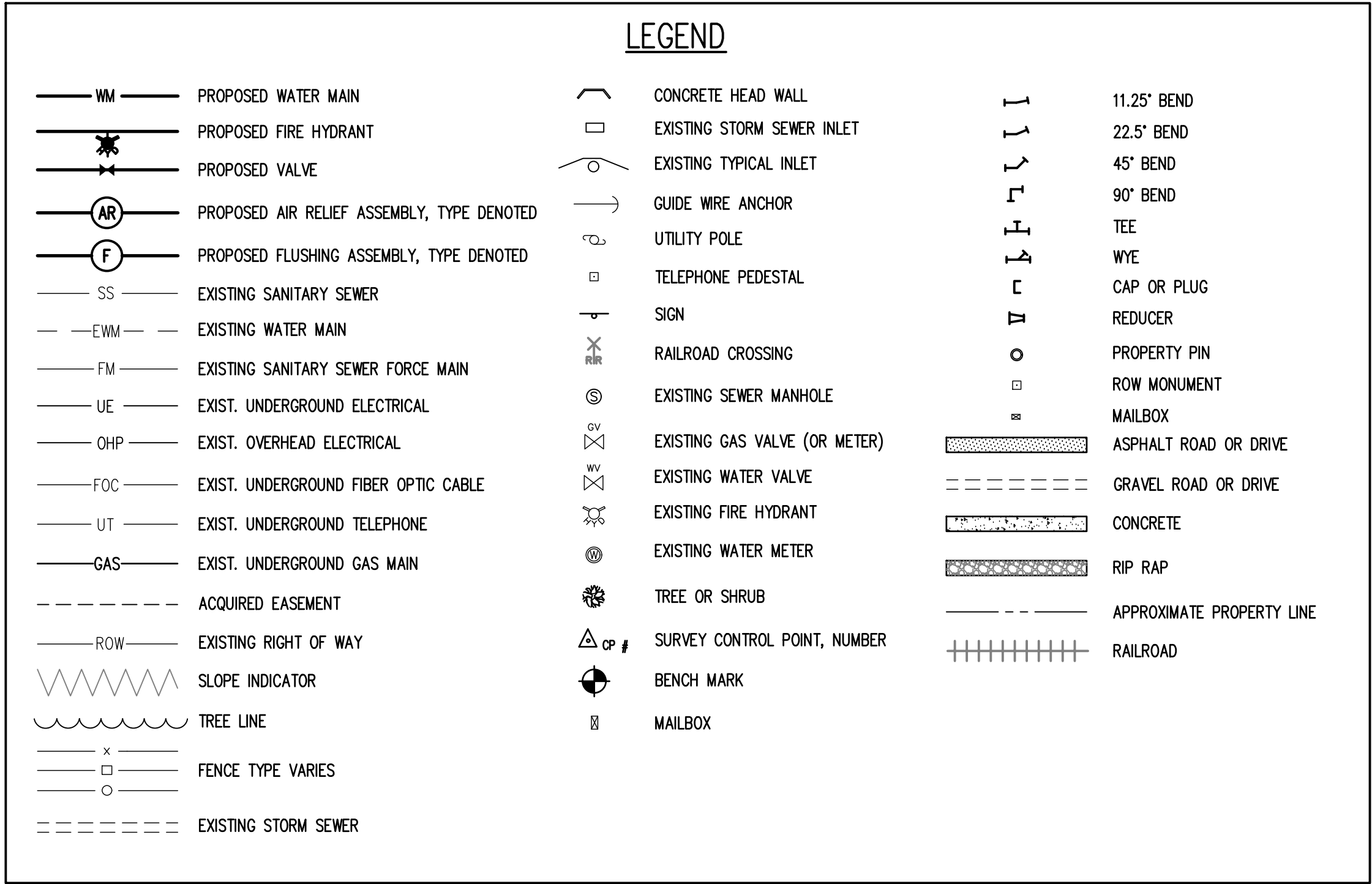
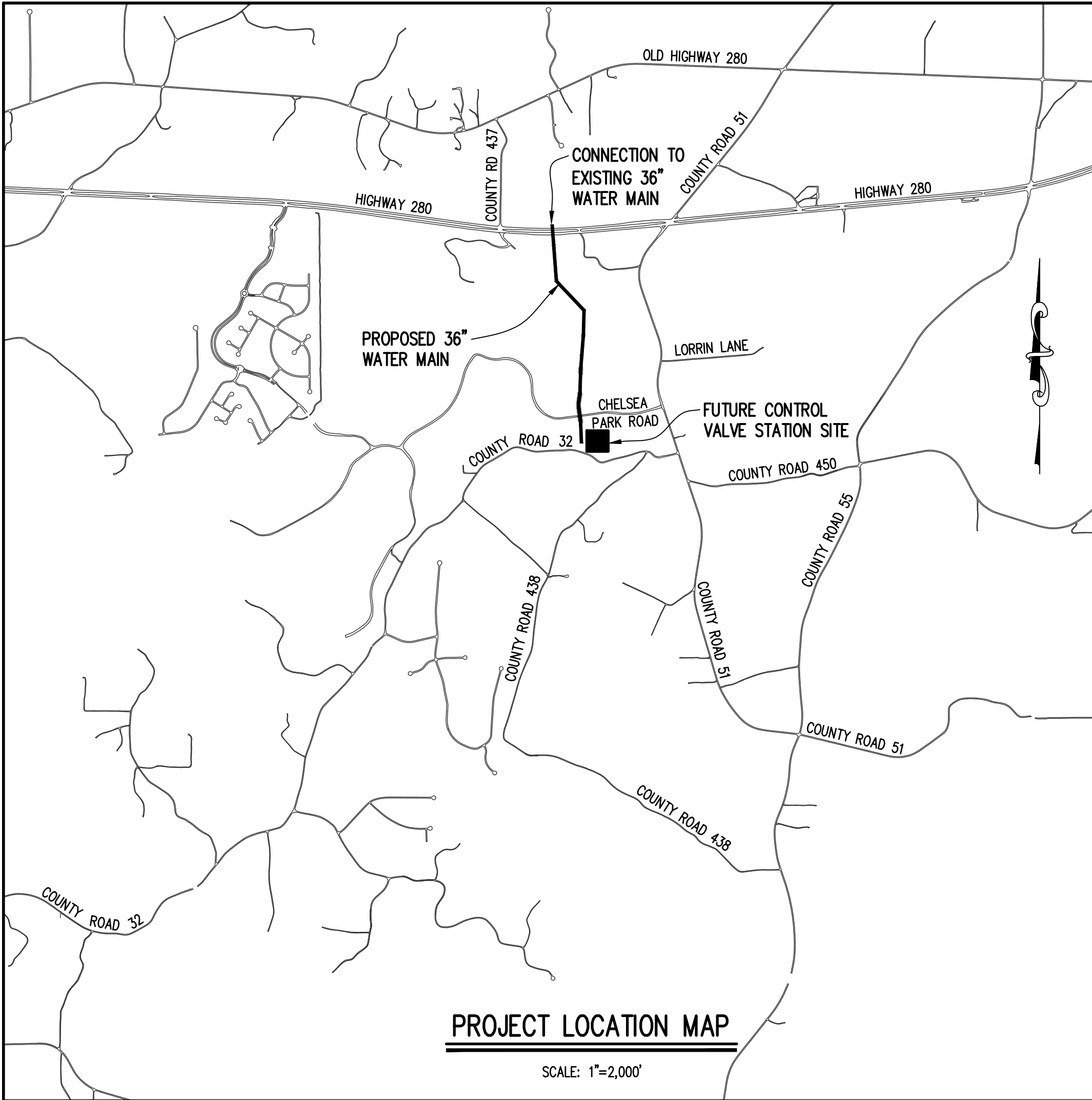
NORTH-SOUTH CONNECTOR PHASE 2

2025

Municipal
Consultants,
Inc. Birmingham, Alabama



BID SET



ABBREVIATIONS							
@	AT	FH	FIRE HYDRANT	OC	ON CENTER	TBM	TEMPORARY BENCHMARK
APPROX	APPROXIMATE	FIN GR	FINISH GRADE	OD	OUTSIDE DIAMETER	TEMP	TEMPORARY, TEMPERED
ASPH	ASPHALT	FLG	FLANGED	OHP	OVERHEAD POWER	THK	THICKNESS
ASSY	ASSEMBLY	FT	FOOT	PE	PLAIN END	TYP	TYPICAL
BLDG	BUILDING	GV	GATE VALVE	PH	PHASE	V	VALVE, VENTILATOR, VOLTS
BM	BENCHMARK	H, HGT, HT	HEIGHT	PL	PLATE, PROPERTY LINE	VERT	VERTICAL
BOT, BTM	BOTTOM	HORIZ	HORIZONTAL	PO	PUSH ON		
CI	CAST IRON	HWY	HIGHWAY	PP	POWER POLE	W	WEST, WIDTH, WINDOW, WATER
CIP	CAST IRON PIPE	ID	INSIDE DIAMETER	PSI	POUNDS PER SQUARE INCH	W/O	WITHOUT
CL	CENTER LINE	IN	INCHES	PVC	POLYVINYL CHLORIDE	WWF	WELDED WIRE FABRIC
CL	CLASS	INV	INVERT	R, RAD	RADIUS	WTP	WATER TREATMENT PLANT
CMP	CORRUGATED METAL PIPE	LIN	LINEAL, LINEAR	RCR	REINFORCED CONC PIPE	WWTP	WASTEWATER TREATMENT PLANT
CONC	CONCRETE	LG	LONG	RED	REDUCER	X	BY
CONN	CONNECTION	LT	LEFT	REINF	REINFORCING		
CONT	CONTINUOUS	MANUF	MANUFACTURER	REQD	REQUIRED		
DIA	DIAMETER	MAX	MAXIMUM	RJ	RESTRAINED JOINT		
DI	DUCTILE IRON	MH	MANHOLE	ROW, R/W	RIGHT-OF-WAY		
DIP	DUCTILE IRON PIPE	MIN	MINIMUM	RS	RESILIENT SEAT		
DWN	DOWN	MISC	MISCELLANEOUS	RT	RIGHT		
DWG	DRAWING	MJ	MECHANICAL JOINT	SF	SQUARE FEET		
EA	EACH	N	NORTH	SPECS	SPECIFICATIONS		
ELEC	ELECTRICAL	NIC	NOT IN CONTRACT	SQ	SQUARE		
EL, ELEV	ELEVATION	NO., #	NUMBER	SS	SANITARY SEWER		
EQ	EQUAL	NTS	NOT TO SCALE	STA	STATION		
EX, EXIST	EXISTING			ST STL, SS	STAINLESS STEEL		
				SS	SANITARY SEWER		

Drawing

Project No.

Date

Scale

Sheet

1 - 25

AS SHOWN

2

Title

LOCATION MAP AND LEGEND

BID SET

SHELBY COUNTY COMMISSION

NORTH-SOUTH CONNECTOR PHASE 2

2025

Municipal Consultants, Inc.

200 Oaklary Park South, Suite 212

Birmingham, Alabama 35226

(205) 822-0387

PROJECT NOTES:

1. WHEN FLANGES ARE DESIGNATED AS CLASS 250 F&D, CLASS 250, OR 250 POUND IN THESE DRAWINGS, IT REFERS TO THAT FLANGES WILL MEET THE REQUIREMENTS OF ANSI B16.1 CLASS 250 FLANGES CAST IRON OR DUCTILE IRON CLASS 300 MEETING THE REQUIREMENTS OF ANSI B16.42. WHEN FLANGES ARE DESIGNATED AS THE ABOVE BUT WITH NOTATION 150, FLANGES MUST BE DUCTILE IRON CLASS 150 IN ACCORDANCE WITH ASME B16.42 OR ANSI/AWWA C115/A21.15 AND C110/A21.10.
2. KEEP PIPE CLEANED AND REMOVE ALL DEBRIS AND DIRT FROM INSIDE OF PIPE TO BE INSTALLED AND PREVIOUS PIPES INSTALLED DUE TO THE SHORTAGE OF FLUSHING WATER WHEN PIPE LINE IS COMPLETED. WHEN LAYING IS NOT IN PROGRESS, INCLUDING BREAK PERIODS, THE OPEN ENDS OF THE PIPE SHALL BE CLOSED BY PLUGS OR APPROVED MEANS.
3. TOP OF PIPE TO GROUND IS APPROXIMATE IN THESE DRAWINGS. APPROXIMATE CUTS MAY BE OBTAINED BY ADDING PIPE DIAMETER PLUS REQUIRED BEDDING BELOW THE PIPE TO THE REQUIRED DEPTH FOR TOTAL CUT. DUE TO DIFFERENT HORIZONTAL AND VERTICAL SCALES ON DRAWINGS, DO NOT USE MEASURED CUTS TO BOTTOM OF PIPE. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING ALL CUTS AND INSTALLING PIPE IN ACCORDANCE WITH THE REQUIREMENTS ON THE PLANS AND ON SPECIFICATIONS. NO BID ITEM IS ESTABLISHED FOR VARYING PIPE DEPTHS. DEEPENING OF WATER LINE, WHERE REQUIRED, SHALL BE ACHIEVED BY DEFLECTION OF THE PIPE. NO VERTICAL BENDS WILL BE ALLOWED UNLESS SHOWN. FITTINGS AND RESTRAINED JOINT PIPE INSTALLED BUT NOT SHOWN, INDICATED OR REQUIRED BY THE PLANS AND SPECIFICATIONS, MUST BE PRE-APPROVED BY THE ENGINEER TO RECEIVE PAYMENT FOR THE ADDITIONAL ITEMS.
4. ALL AIR RELEASES SHALL BE PLACED ON HIGHEST ELEVATION OF PIPE AFTER IT IS INSTALLED. PREFABRICATED BOSSES AND/OR TAPS SHALL BE LAYED OR INSTALLED IN A MANNER TO PLACE IT ON THE HIGHEST POINT IN THE VICINITY WHERE AN AIR RELEASE IS REQUIRED.
5. FOR COORDINATION OF CONSTRUCTION, CONTRACTOR SHALL HIRE A LICENSED SURVEYOR FAMILIAR WITH SHELBY COUNTY'S LAND WHO WILL SURVEY THE WATER LINE ALIGNMENT INCLUDING THE ALABAMA POWER COMPANY'S ALIGNMENT FOR CONSTRUCTION AND PROPER PLACEMENT OF THE WATER LINE. RESPONSIBILITY FOR THE SURVEY COORDINATION, ACCURACY AND TIMELINESS, SHALL REST WITH THE CONTRACTOR AND SURVEYOR.
6. ALL FITTINGS WILL BE WRAPPED IN FELT PAPER OR PLASTIC BEFORE CONCRETE THRUST BLOCKS ARE POURED. NOT ALL FITTINGS REQUIRE THRUST BLOCKS. ALL M.J. ENDS REQUIRE MEGA LUG RETAINER GLANDS INCLUDING VALVES.
7. ALL FITTINGS, FLANGES, JOINTS AND RESTRAINT SYSTEMS SHALL BE CERTIFIED BY THE MANUFACTURER THAT IT WILL WITHSTAND 350 PSI DESIGN PRESSURE.
8. PIPE WILL BE LAYED ON RISING OR FALLING GRADES WITH SUFFICIENT DEPTH TO ELIMINATE AIR POCKETS THROUGHOUT PROJECT UNLESS AN AIR RELEASE VALVE IS SHOWN. NO AIR RELEASE WILL BE ADDED TO PROJECT WITHOUT APPROVAL OF THE ENGINEER.
9. DRIVEWAYS THAT ARE OPEN CUT SHALL BE SAW CUT AND BACKFILLED WITH COMPACTED CRUSHED PUG MIX TO SURFACE.
10. ALL BELL HOLES SHALL HAVE EXCAVATED SOCKET SO ENTIRE PIPE BEARS EVENLY ITS ENTIRE LENGTH.
11. WATER TO TEST AND FLUSH LINES WILL BE PROVIDED SHELBY COUNTY VIA THE CONNECTION POINT TO THE EXISTING WATER SYSTEM. CONTRACTOR SHALL ASSIST OWNER AND ENGINEER IN DETERMINING WATER USAGE THROUGHOUT THE PROJECT.
12. CONTRACTOR SHALL CLEAR AND GRUB ENTIRE EASEMENT, PERMANENT AND TEMPORARY CONSTRUCTION, UNLESS TOLD OR SHOWN OTHERWISE TO BE LESS CLEARING.
13. ALL BENDS, TEES, BOSSES, ETC..., WILL HAVE CONCRETE THRUST BLOCKS WHERE SPECIFICALLY REQUIRED BY PLANS OR FIELD REPRESENTATIVE AND REQUIRED LENGTH OF RESTRAINED JOINT PIPE WITH OTHER SPECIFIED RESTRAINT SYSTEMS.
14. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING CROSSING LOCATIONS TO DETERMINE FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR INVESTIGATING CROSSING LOCATIONS TO DETERMINE EXISTING CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR CONDITIONS ENCOUNTERED SUCH AS ROCK, SOFT CONDITIONS, ETC.
15. CONTRACTOR SHALL LOCATE AND UNCOVER ALL POTENTIALLY CONFLICTING UTILITIES AND COMPLETE ALL BORES AND/OR TUNNELS WITH ELEVATIONS VERIFIED, BEFORE CONSTRUCTION GRADES OR DEPTHS ARE FINALIZED AND PIPE IS LAID IN THE VICINITY OF THESE ITEMS.
16. TESTING OF LINES & APPURTENANCES WILL BE AS SPECIFIED. CONTRACTOR MAY USE CLOSED VALVES OR TEMPORARILY PLUGGED LINES AT HIS OPTION. CLOSED CLASS 150 BUTTERFLY VALVES CANNOT BE TESTED AGAINST UNLESS CONTRACTOR PUTS PRESSURE ON EACH SIDE OF VALVES SO DIFFERENCE IN PRESSURE DOES NOT EXCEED 150 PSI. DURING TEST, VALVES WITH SUFFICIENT PRESSURE RATINGS HAVE BEEN PLACED AT BEGINNING AND END OF PROJECT FOR TESTING LINE AGAINST A CLOSED VALVE.
17. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ACCESS TO CONSTRUCTION SITES FOR MOVEMENT OF MATERIALS, CREWS, AND OTHER REQUIREMENTS TO CONSTRUCT THE PROJECT WHEN EXISTING EASEMENTS AND PUBLIC ACCESS IS NOT SATISFACTORY TO THE CONTRACTOR.
18. ALL RESTRAINED JOINT PIPE SHALL BE FULLY EXTENDED FROM EACH ADJOINING PIPE BELL. NO FIELD WELDING OF D.I. ALLOWED.
19. ABIDE BY ALABAMA POWER COMPANY'S REQUIREMENTS FOR WORK AROUND POWER COMPANY EQUIPMENT. SEE PRELIMINARY REQUIREMENTS IN SPECIFICATIONS..
20. ALL MAIN LINE M.J. VALVES AND FITTINGS SHALL USE MEGA LUG OR EQUAL RESTRAINT GLANDS.
21. FLUSHING OUTLETS WILL BE IDENTIFIED DURING CONSTRUCTION BY OWNER THAT WILL HAVE RIP-RAP PLACED BY CONTRACTOR.
22. CONTRACTOR SHALL OBTAIN AND PAY FOR NPDES PERMIT FOR PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE DRAINAGE, STORM WATER PERMITS AND COMPLIANCE WITH ALL GOVERNMENTAL STORM WATER REGULATIONS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS.
23. CONTRACTOR SHALL MAINTAIN A SURVEYING INSTRUMENT ON SITE AND USED AT ALL TIMES DURING PIPE LAYING TO MAINTAIN CONSTANT SLOPES ON PIPE SO AIR POCKETS WILL NOT BE CREATED IN THE PIPE LINE WHERE AIR RELEASE VALVES ARE NOT REQUIRED.
24. DUE TO VARYING FIELD AND PIPE LAYING CONDITIONS THAT WILL BE ENCOUNTERED, THE CONTRACTOR FOR THE FULL DURATION OF THE PROJECT SHALL MAINTAIN AN INVENTORY OF RESTRAINED JOINT PIPE AND MECHANICAL JOINT FITTINGS. THIS INVENTORY WILL CONSIST OF VARIOUS DEGREE FITTINGS AND SHALL BE IN ADDITION TO THE TYPE AND NUMBER OF FITTINGS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL DISPOSE OR RESTOCK EXCESS FITTINGS AND PIPE AT THE END OF PROJECT AT HIS EXPENSE. NO DELAYS OF CONTRACTOR WILL BE CONSIDERED DUE TO NOT BEING ADEQUATE MATERIALS ON PROJECT NOR WILL SLEEVES BE COMPENSATED WHEN CONTRACTOR HAS TO SKIP AREAS BECAUSE OF INADEQUATE INVENTORY. LONG BODY SLEEVES ARE REQUIRED WHEN NEEDED AND ALLOWED BY ENGINEER.
25. ALL TIMBER OUTSIDE OF EASEMENTS WILL NOT BE DAMAGED AND IS THE RESPONSIBILITY OF THE CONTRACTOR. EASEMENTS ARE ON VARIOUS LAND OWNERS, I.E. PRIVATE, TIMBER COMPANIES, ETC.
26. FENCING TO BE MAINTAINED FOR ENCLOSING LIVESTOCK. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS NEEDED AND COORDINATE REQUIREMENTS WITH SHELBY COUNTY, PROPERTY OWNER, AND ENGINEER.
27. ALL PIPE FITTINGS AND VALVES SHALL BE MECHANICAL JOINT, DUCTILE IRON WITH MEGA-LUG RESTRAINING GLANDS (BY EBAA FOUNDRY) UNLESS INDICATED OTHERWISE. IN AREAS WHERE RESTRAINED JOINT PIPE IS REQUIRED, THE CONTRACTOR MAY, AT NO ADDITIONAL COST TO THE OWNER, SUBSTITUTE RESTRAINED JOINT FITTINGS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING REQUIRED LENGTHS OF CONNECTOR PIPES AND OTHER MISCELLANEOUS DETAILS WHEN R.J. FITTINGS ARE UTILIZED.
28. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR SAFETY NOR THE MEANS AND METHODS OF THE CONTRACTOR. THIS APPLIES THROUGHOUT THE PROJECT.
29. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL SHELBY COUNTY RULES AND REGULATIONS, AS APPLICABLE.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL EXCESS MATERIALS RESULTING FROM THE WORK.
31. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF ANY ROW MONUMENTS OR PROPERTY PINS DISTURBED DURING CONSTRUCTION.
32. ANY PROPERTY (I.E. FENCING, LANDSCAPING, SHRUBBERY, DRIVEWAYS, ACCESS ROADS, STRUCTURES, ETC.) THAT IS DAMAGED, REMOVED, AND/OR DISTURBED DURING CONSTRUCTION SHALL BE REPLACED OR RESTORED IN-KIND (AS A MINIMUM) IN A TIMELY MANNER FOLLOWING COMPLETION OF CONSTRUCTION IN THAT AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL SHRUBBERY, SOD, SPRINKLER HEADS, ETC. IN-KIND (WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS) THAT IS DAMAGED, REMOVED, AND/OR DISTURBED DURING CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL REIMBURSE THE PROPERTY OWNER FOR THE VALUE OF ANY IRREPLACEABLE PROPERTY LOCATED ON PRIVATE PROPERTY (I.E. NOT WITHIN R.O.W. OR EASEMENTS) THAT HAS BEEN REMOVED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES. ALL WORK TO REPLACE OR RESTORE DAMAGED, REMOVED, AND/OR DISTURBED PROPERTY SHALL BE COMPLETED WITHIN 30 DAYS OF COMPLETING PIPE INSTALLATION ON AN INDIVIDUAL PROPERTY.
33. UTILITIES ON PLANS AND PROFILES ARE SHOWN IN APPROXIMATE LOCATIONS AND MAY BE AT ASSUMED ELEVATIONS. CONTRACTOR TO VERIFY ALL POTENTIALLY CONFLICTING UTILITIES BEFORE PIPE IS LAID.
34. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE LOCATION, TYPE, AND SIZE OF ALL EXISTING UTILITIES, OBSTRUCTIONS, FENCING, DRAINAGE, ETC.
35. ALL ROCK SHALL BE UNDERCUT A MINIMUM OF 12" BELOW THE PIPE INVERT AND PIPE IS TO BE BEDDED IN STONE - SEE DETAILS. PIPE BEDDING MATERIAL SHALL BE #57 CRUSHED STONE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
36. CONTRACTOR SHALL CONTINUALLY MAINTAIN TRAFFIC FLOW AND MINIMIZE DISRUPTION OF ACCESS TO ALL BUSINESSES AND RESIDENCES. CONTRACTOR SHALL COORDINATE AS REQUIRED WITH PROPERTY OWNERS TO ENSURE UNOBSTRUCTED ACCESS DURING SPECIFIC/CRITICAL TIMES OF DAY IF NECESSARY.
37. CONTRACTOR TO PROVIDE HORIZONTAL AND VERTICAL SURVEY GRADE GPS COORDINATES ON STATE PLANE COORDINATES AT ALL VALVES, FITTINGS, CONNECTIONS AND AT 200' INTERVALS ALONG PIPE. COORDINATE FILE SHALL BE INCLUDED WITH AND UP TO DATE AT EACH PAY REQUEST.

ALDOT NOTES:

1. CONTACT DISTRICT ADMINISTRATOR 48 HOURS PRIOR TO BEGINNING WORK ON ALDOT RIGHT-OF-WAY.
2. REQUEST TO MEET WITH DISTRICT PERMIT COORDINATOR UPON COMPLETION OF PERMITTED WORK TO EVALUATE PUNCH LIST FOR COMPLETION OF PROJECT.
3. ALL DISTURBED AREAS SHALL BE RE-SODDED OR SEEDED IN ACCORDANCE WITH THE LATEST ALDOT SPECIFICATIONS FOR GRASSING OR AS DIRECTED BY THE DEPARTMENT OF TRANSPORTATION'S DISTRICT MANAGER.
4. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
5. THE ALDOT DISTRICT OFFICE MUST BE NOTIFIED IMMEDIATELY UPON A LANE CLOSURE BEGINNING AND ENDING.
6. ALL WORK ON ALDOT RIGHT-OF-WAY SHALL MEET OR EXCEED ALDOT STANDARDS AND SPECIFICATIONS.
7. RIGHT-OF-WAY MARKERS OR MONUMENTS SHALL NOT BE DISTURBED.
8. THE DISTRICT'S PEAK HOURS ARE BEFORE 8:00 A.M. AND AFTER 4:00 P.M. NO LANE CLOSURES OR POSSIBLE TRAFFIC INTERFERENCES SHALL BE ALLOWED DURING PEAK HOURS.
9. DURING NON-WORKING HOURS NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING TRAFFIC. WHEN THIS IS NOT PRACTICAL, IT SHALL BE IN AN AREA DESIGNATED BY THE ENGINEER AND APPROVED BY THE DISTRICT MANAGER AND DELINEATED BY REFLECTORIZED DRUMS.
10. IF WORK ENCROACHES WITHIN TWO FEET OF THE TRAVEL WAY THE LANE SHOULD BE CLOSED. ANY LANE CLOSURES NOT INDICATED IN THE DRAWINGS REQUIRE ALDOT APPROVAL PRIOR TO THE LANE BEING CLOSED.
11. THE PERMIT IS NOT WITHIN ANY UPCOMING CONSTRUCTION PROJECTS.
12. THERE ARE NO ALDOT FIBER NEAR THE WORK SHOWN ON THE PLANS.
13. ALL CONTRACTORS WILL ADHERE TO OSHA STANDARDS.
14. CALL 811 BEFORE YOU DIG.
15. ALL MANHOLES, VALVE BOXES, HANDHOLES, AND CLEANOUTS SHALL MEET OR EXCEED AN HS-20 LOAD AND SHALL BE MOUNTED FLUSH WITH EXITING GROUND OR FINISH GRADE.
16. NO TRENCH OR EXCAVATION SHALL BE LEFT OPEN OVERNIGHT OR UNATTENDED ON RIGHT-OF-WAY UNLESS PROPERLY PROTECTED.
17. TRENCHES AND EXCAVATION MUST BE FILLED, FENCED, COVERED, OR BARRICADED WHEN UNATTENDED.
18. THE ONSITE REPRESENTATIVE(S) WILL HAVE ON HAND, AT ALL TIMES, APPROVED PERMIT AND PLANS, TRAFFIC CONTROL PLAN, AND EROSION CONTROL PLAN.

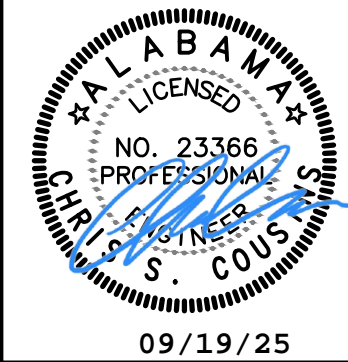
Municipal Consultants, Inc.

200 Oakbury Park South, Suite 212
Birmingham, Alabama 35226
(205) 822-0387

SHELBY COUNTY COMMISSION

NORTH-SOUTH CONNECTOR
PHASE 2

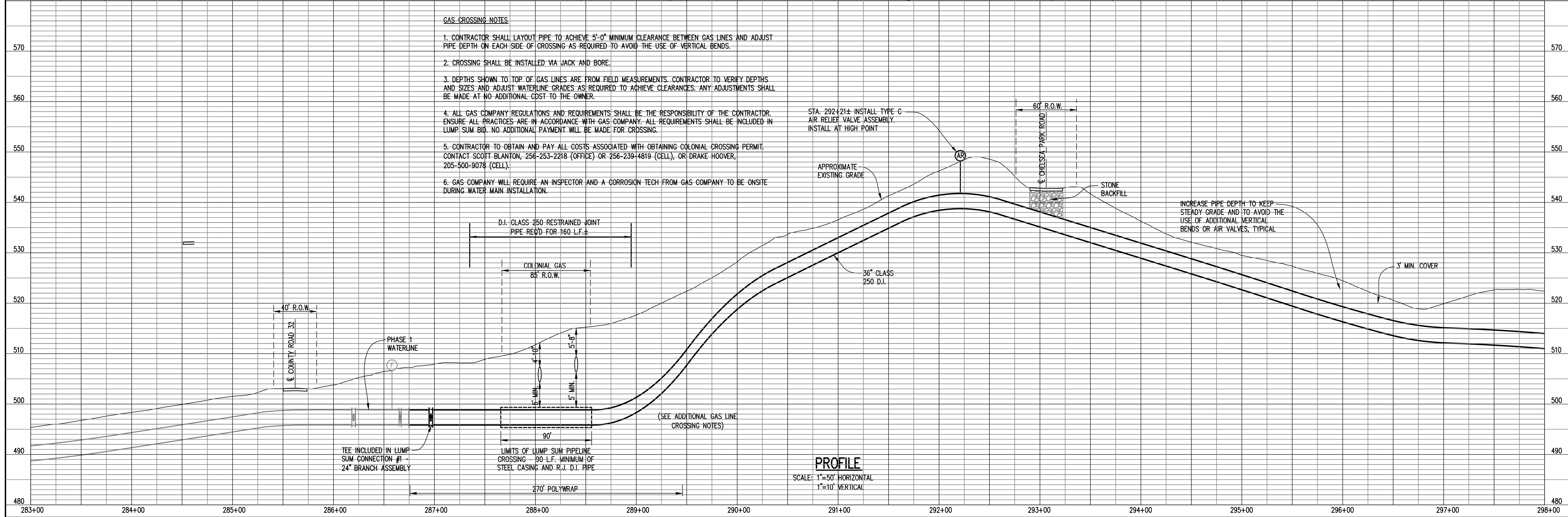
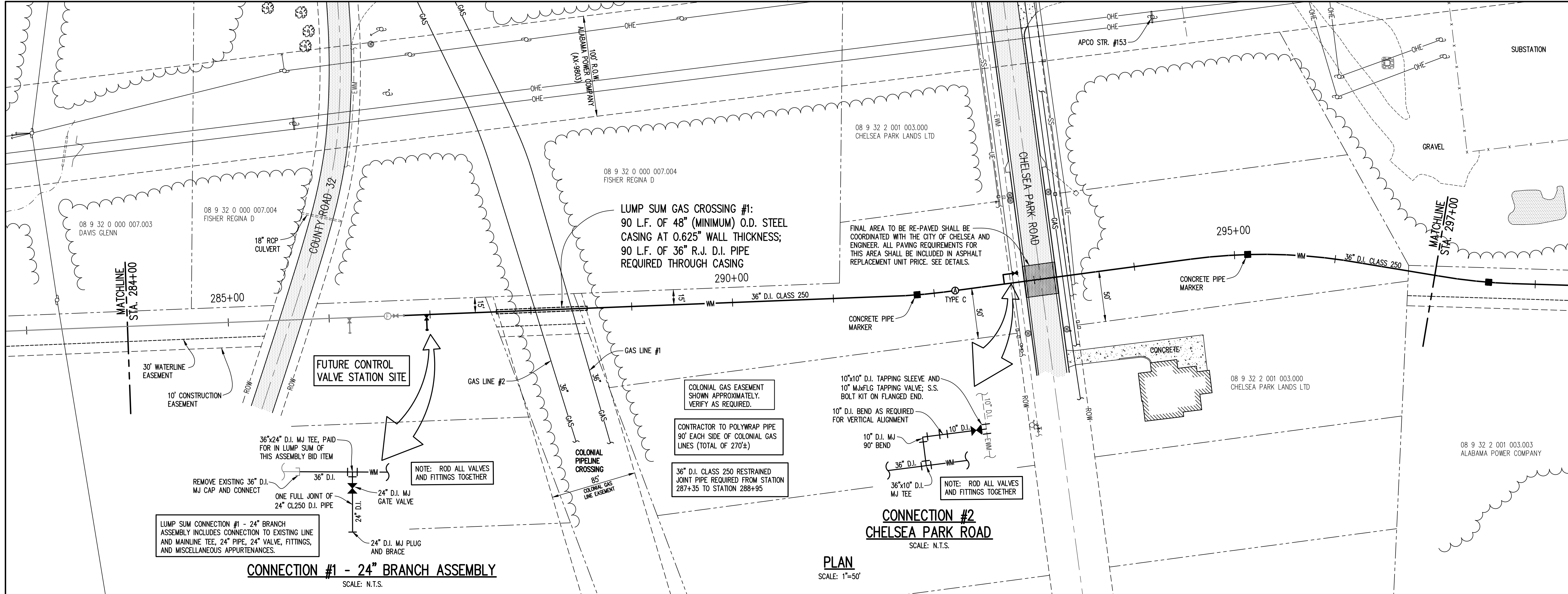
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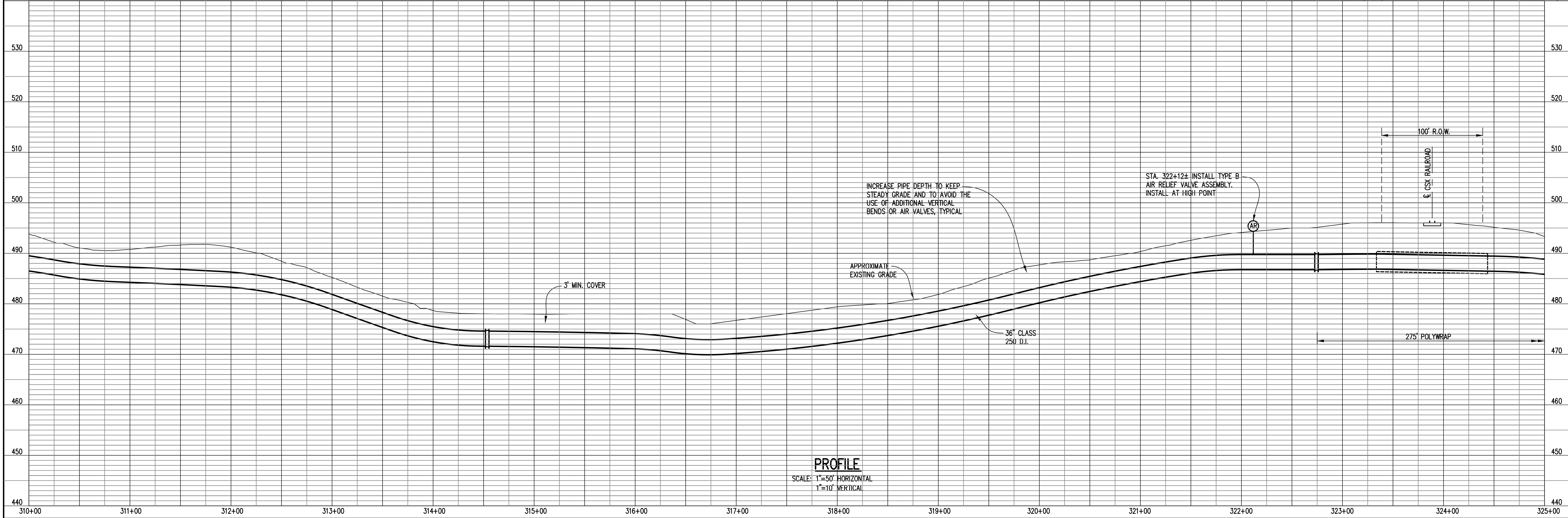
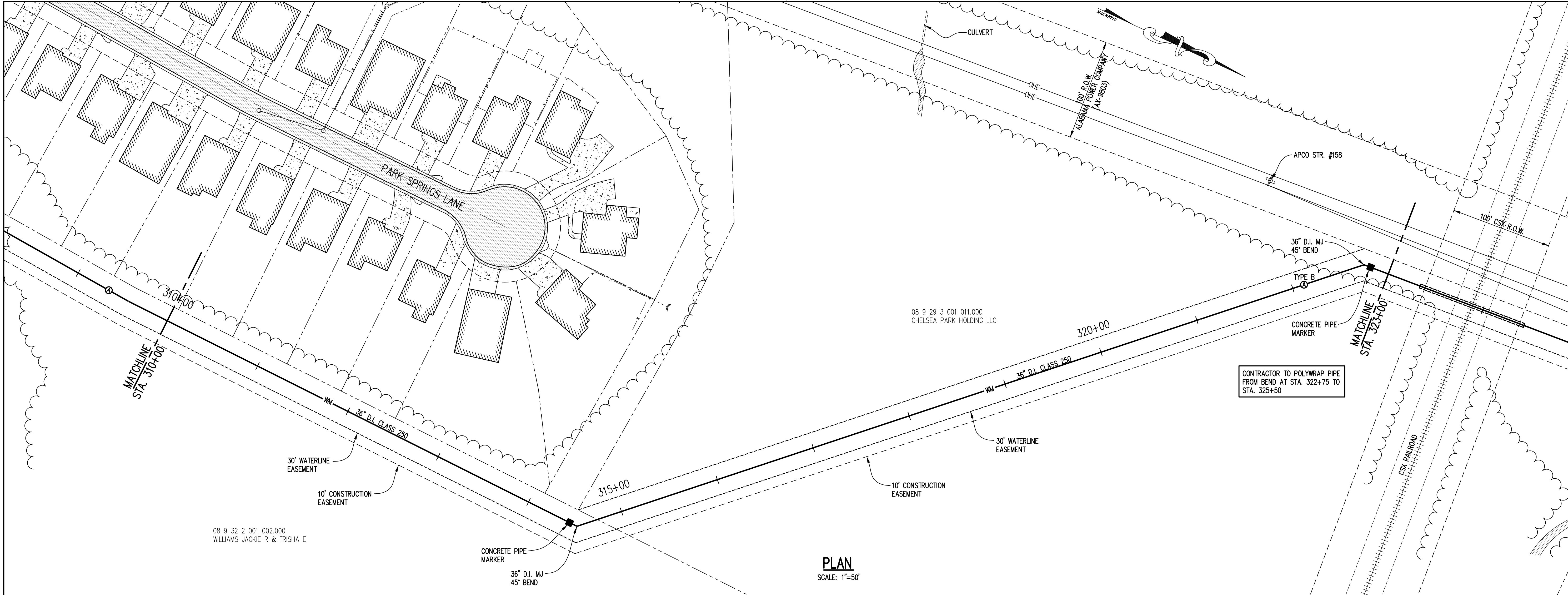
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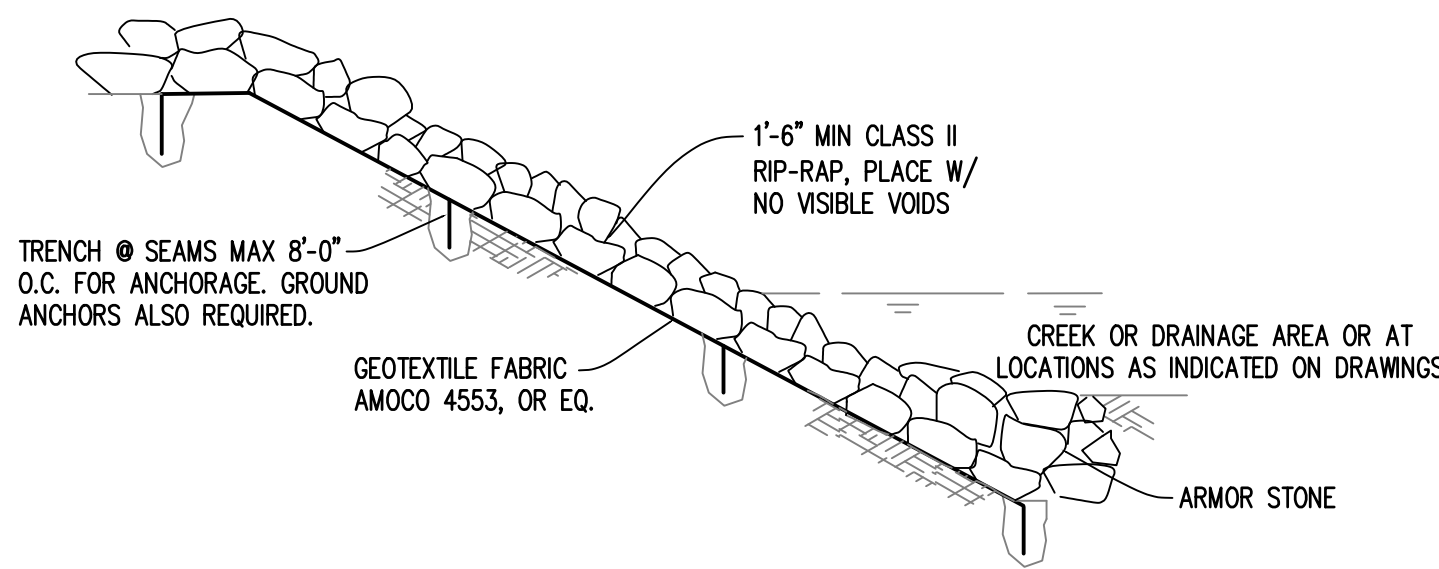
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Drawing	Project No.	1 - 25		NONE	
Date					
Scale					
Sheet				3	



Municipal Consultants, Inc. 200 Oakbury Park, Suite 212 Birmingham, Alabama 35208 (205) 822-0387	
SHELBY COUNTY COMMISSION	
NORTH-SOUTH CONNECTOR PHASE 2 2025	
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Title	
PLAN AND PROFILE	
Drawing Project No.	1 - 25
Date	1" = 50'
Scale	4
Sheet	



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SHELBY COUNTY COMMISSION	
NORTH-SOUTH CONNECTOR PHASE 2 2025	
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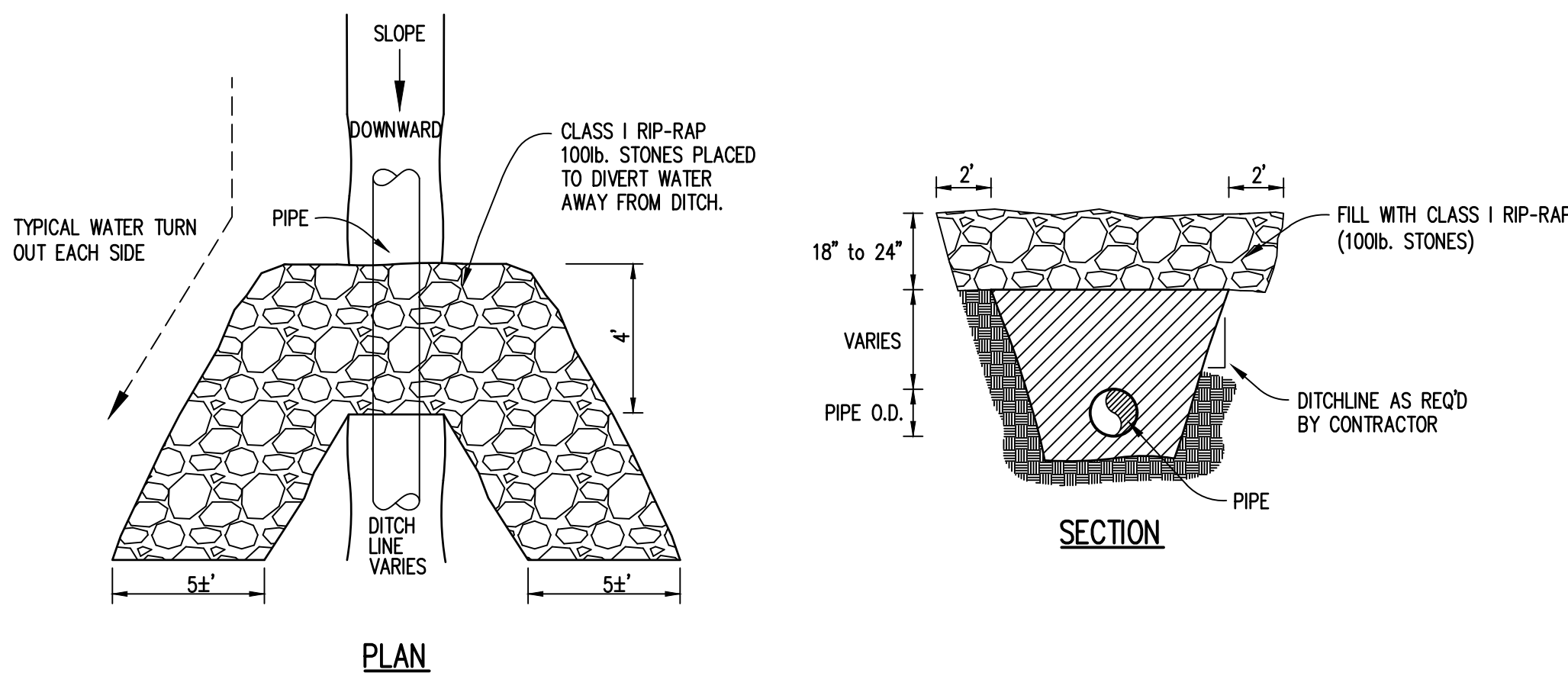


NOTES:

1. STONE FOR CHANNEL PROTECTION RIP RAP SHALL BE SELECTED LIMESTONE ROCK CONSISTING OF WELL GRADED STONE WEIGHING FROM 10 POUNDS TO 200 POUNDS EACH WITH AT LEAST 50% WEIGHING OVER 80 POUNDS. BOTH WIDTH AND THICKNESS SHOULD BE 1/3 THE LENGTH FOR EACH STONE. NOT MORE THAN 10% BY TOTAL WEIGHT SHALL WEIGH LESS THAN 10 POUNDS AND NOT MORE THAN 10% BY TOTAL WEIGHT SHALL WEIGH MORE THAN 200 POUNDS.
2. RIP-RAP ALL DISTURBED AREAS ALONG CREEK BANKS, ANY DRAINAGE AREA WITH SLOPES GREATER THAN 3:1, AND OTHER AREAS AS INDICATED ON THE DRAWINGS. THIS WORK SHALL BE INCIDENTAL TO PIPE UNLESS UNIQUE PAY ITEMS ARE ESTABLISHED IN BID DOCUMENTS.

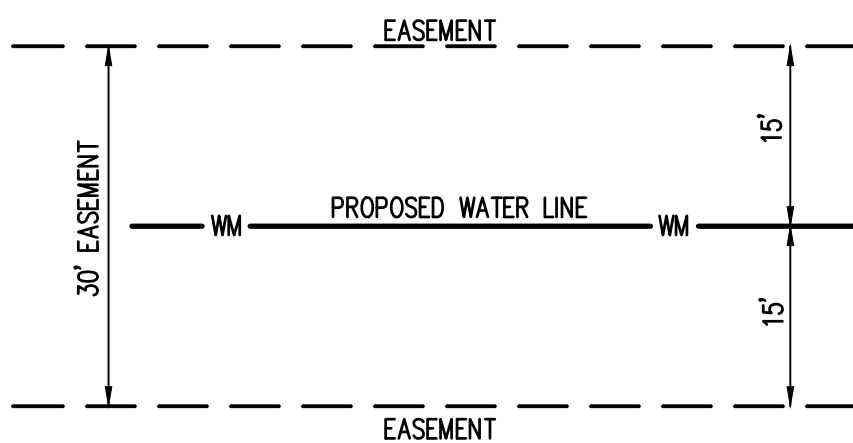
TYPICAL SLOPE PROTECTION USING RIP-RAP DETAIL

NO SCALE



TYPICAL RIP-RAP DITCH CHECK

NO SCALE



TYPICAL LINE WITHIN 30' EASEMENT

NO SCALE

NOTES:

1. METERS TO BE SET IMMEDIATELY OFF RIGHT OF WAY OR AT BACK OF RIGHT OF WAY.
2. SERVICE MATERIAL SHALL BE 1" TYPE K COPPER TUBING; UNLESS PEX_a IS APPROVED FOR USE BY SHELBY COUNTY WATER SERVICES. PEX_a SHALL BE MUNIPEX AS MANUFACTURED BY REHAM CONSTRUCTION, LLC. AND CONTRACTOR SHALL USE STAINLESS STEEL INSERTS AT ALL FITTINGS AND VALVES. 2" CASING SHALL BE SEALED AT EACH END.
3. NO JOINTS ALLOWED IN SERVICES. TYPICAL OF ALL SERVICES.
4. PIPE DEPTH SHALL BE MINIMUM 36" FOR SHELBY COUNTY ROW AND 48" FOR STATE ROW.
5. DIRECTIONAL BORES FOR CASINGS SHALL BE AT A MINIMUM DEPTH OF 48". CASINGS SHALL EXTEND A MINIMUM 2' BEYOND EDGE OF PAVEMENT OR CURB.
6. USAGE OF ANGLED AND STRAIGHT CURB STOPS SHALL BE AT THE DIRECTION OF SHELBY COUNTY.

PARTIAL MATERIALS LIST:

CORP STOPS: 1" BRASS BALL TYPE CORPORATION STOP - FORD FB10004.

CURB STOPS: 3/4" ANGLE CURB STOP - FORD BA43-332W*
1" ANGLE CURB STOP - FORD BA43-444W*
3/4" STRAIGHT CURB STOP - FORD B43-332W*
1" STRAIGHT CURB STOP - FORD B43-444W*

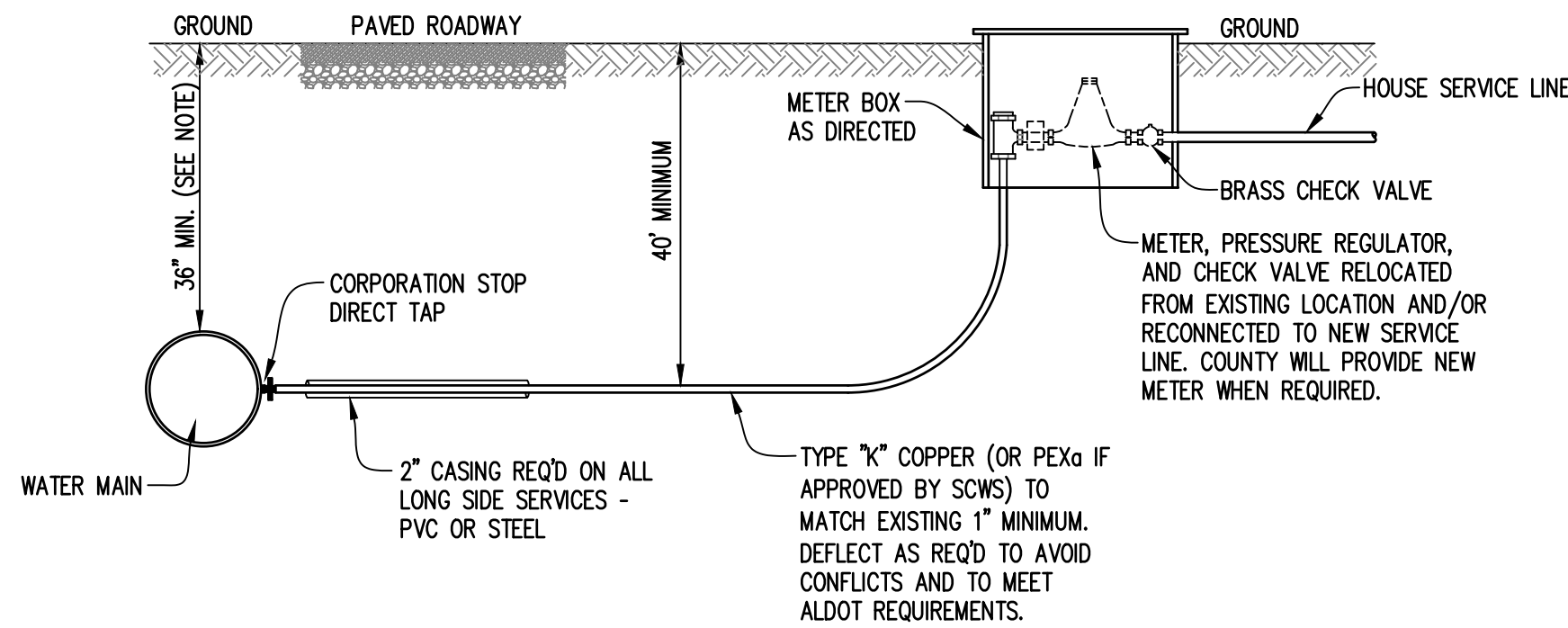
BALL VALVES: 3/4" BRASS BALL VALVE SCREW JOINT - NIBCO T580
1" BRASS BALL VALVE SCREW JOINT - NIBCO T580

METER ADAPTERS: 3/4" METER ADAPTER - FORD A-14
1" METER ADAPTER - FORD A-34

METER COUPLINGS: 3/4" BRASS METER COUPLING - FORD C38-23-2.5
1" BRASS METER COUPLING - FORD C38-44-2.625

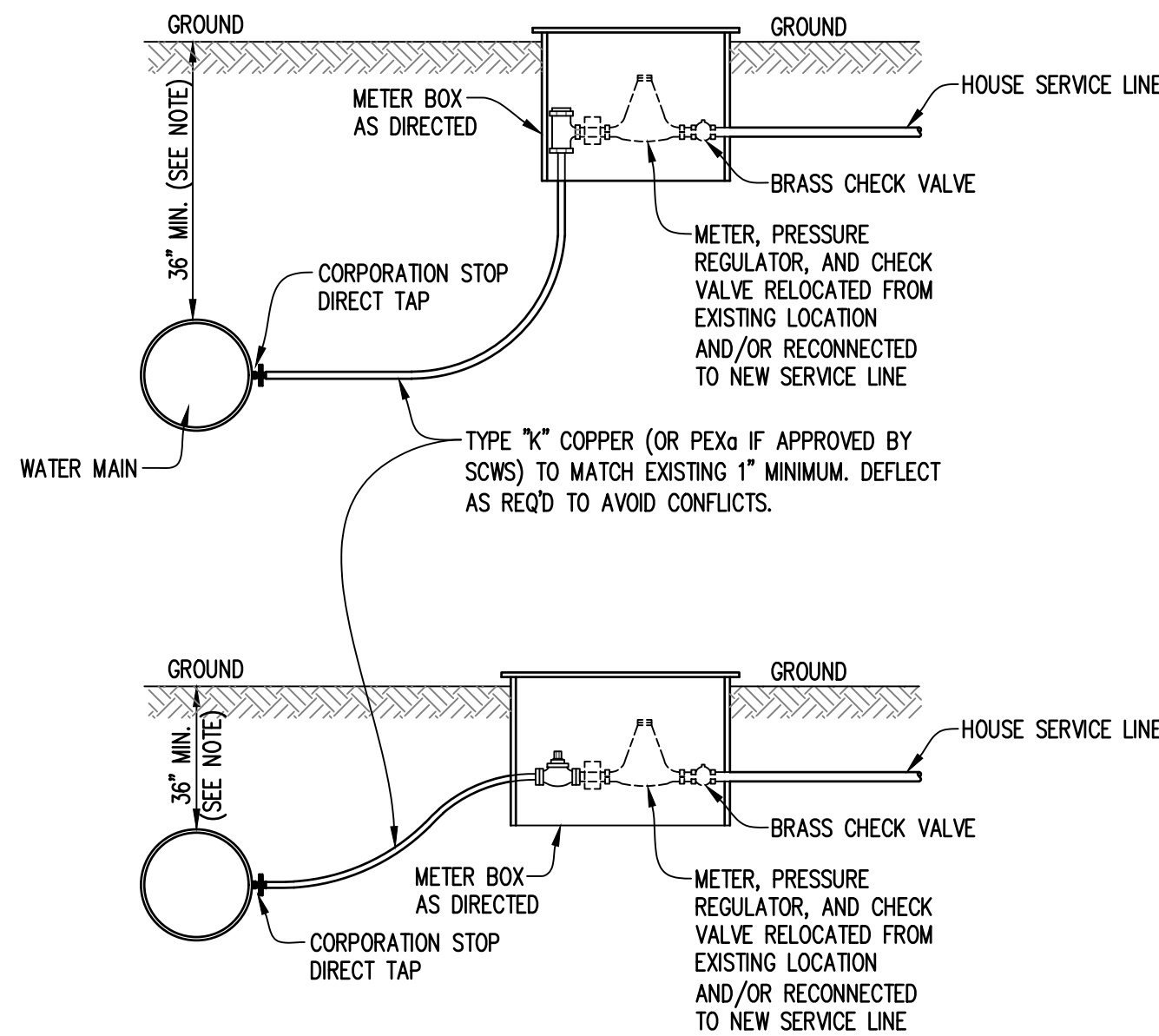
METER BOXES: 18" x 24" RECTANGULAR METER BOX - POLYPLASTIC NDS D-1500 DIOR

*TO BE APPROVED BY SHELBY COUNTY PRIOR TO INSTALLATION



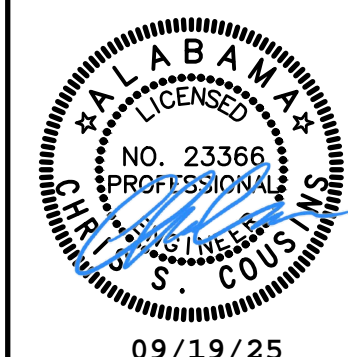
TYPICAL LONGSIDE METER INSTALLATION

SCALE N.T.S.



TYPICAL SHORTSIDE METER INSTALLATION

SCALE N.T.S.



09/19/25

BAR = 1"

Title

DETAILS

BID SET

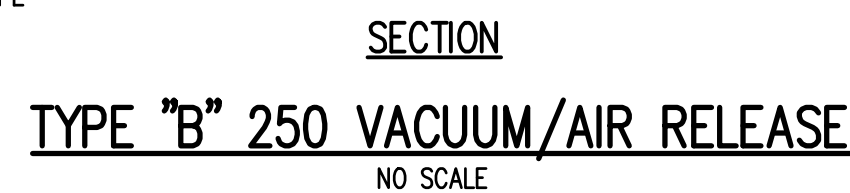
Drawing

Project No.

Date 1 - 25

Scale AS SHOWN

Sheet 8



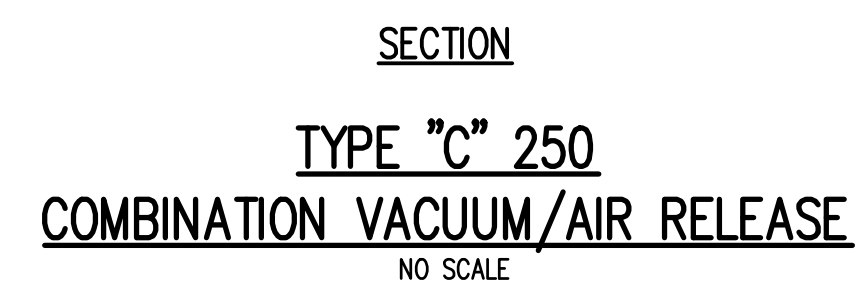
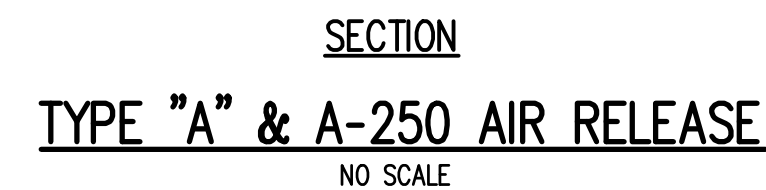
- ### PAINTING SCHEDULE FOR AIR VALVE ASSEMBLIES

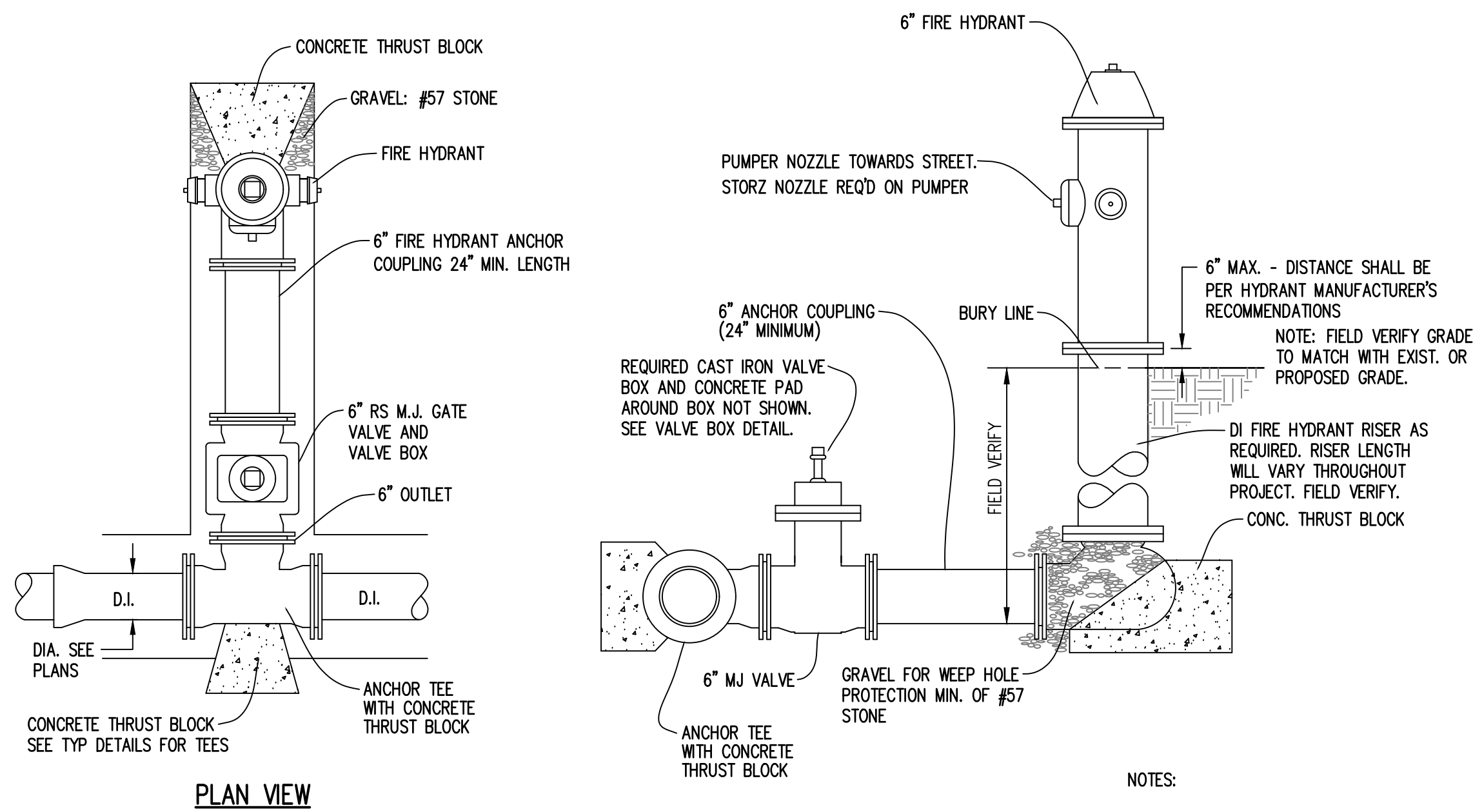
BURIED DUCTILE IRON PIPE:
STANDARD ASPHALTIC SHOP COATING AS APPLIED BY MANUFACTURER.
TOUCH-UP COAT - SERIES 46-465 TNECOL APPLIED AS REQUIRED IN FIELD.

EXPOSED PIPING AND APPURTENANCES:
PRIME - N140 POTA-POX PLUS @ 7.0-9.0 MILS DFT
INTERMEDIATE - SERIES N69 EPOXOLINE II 2.0-3.0 MILS
FINISH - ENDURA-SHIELD II @ 2.0-3.0 MILS DFT, COLOR SAFETY BLUE 11SF.

NOTES:

1. UNLESS OTHERWISE SPECIFIED OR INDICATED IN THE PLANS, SURFACES TO BE LEFT UNPAINTED INCLUDE ALUMINUM, STAINLESS STEEL, BRASS, BRONZE, PLASTIC, AND EQUIPMENT LABELS.
2. FINISH COLOR FOR ALL EXPOSED PIPING AND APPURTENANCES SHALL BE NEMEC SAFETY BLUE 115F.
3. ANY PORTION OF PIPING LOCATED OUTSIDE OF M.H. SHALL BE CONSIDERED BURIED, COATED AS INDICATED. ANY PORTION OF PIPING LOCATED INSIDE M.H. SHALL BE CONSIDERED EXPOSED, COATED AS INDICATED.
4. FINAL COATINGS SHALL BE APPLIED AND CURED PRIOR TO INSTALLATION. AFTER INSTALLATION OF ALL COMPONENTS, TOUCH-UP COMPONENTS AS REQUIRED AND PAINT NUTS/BOLTS, ETC. PAINTING CONDITIONS SHOULD BE AS REQUIRED BY PAINT MANUFACTURER.

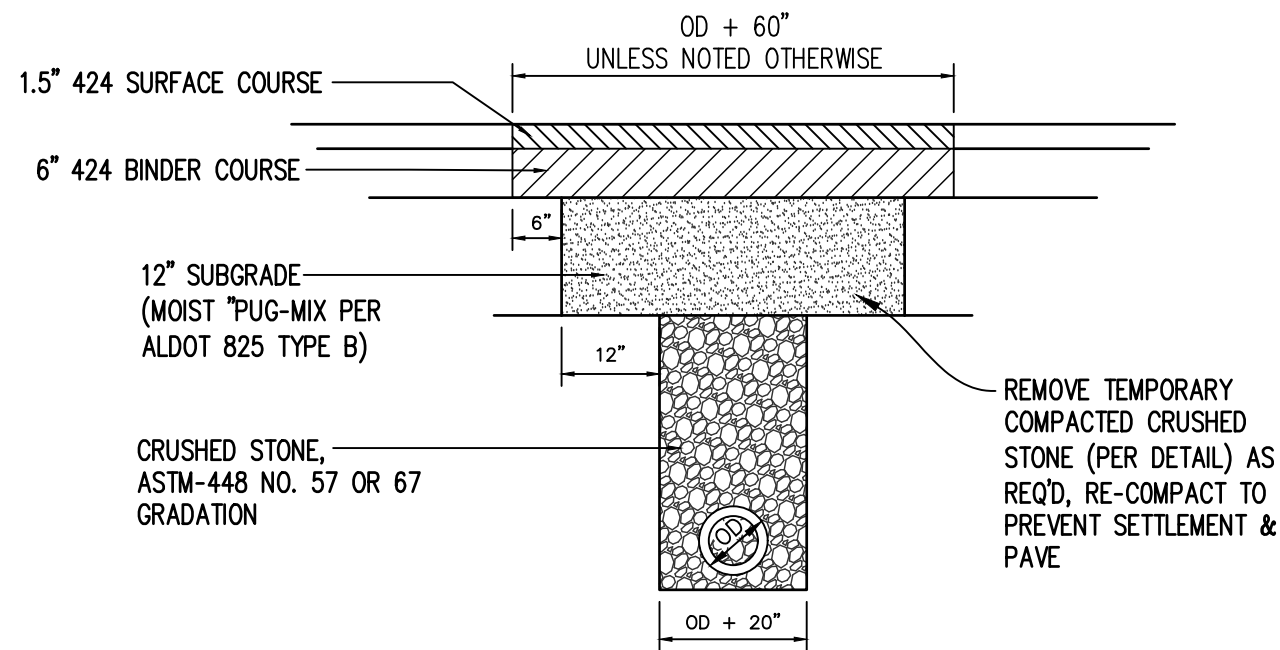




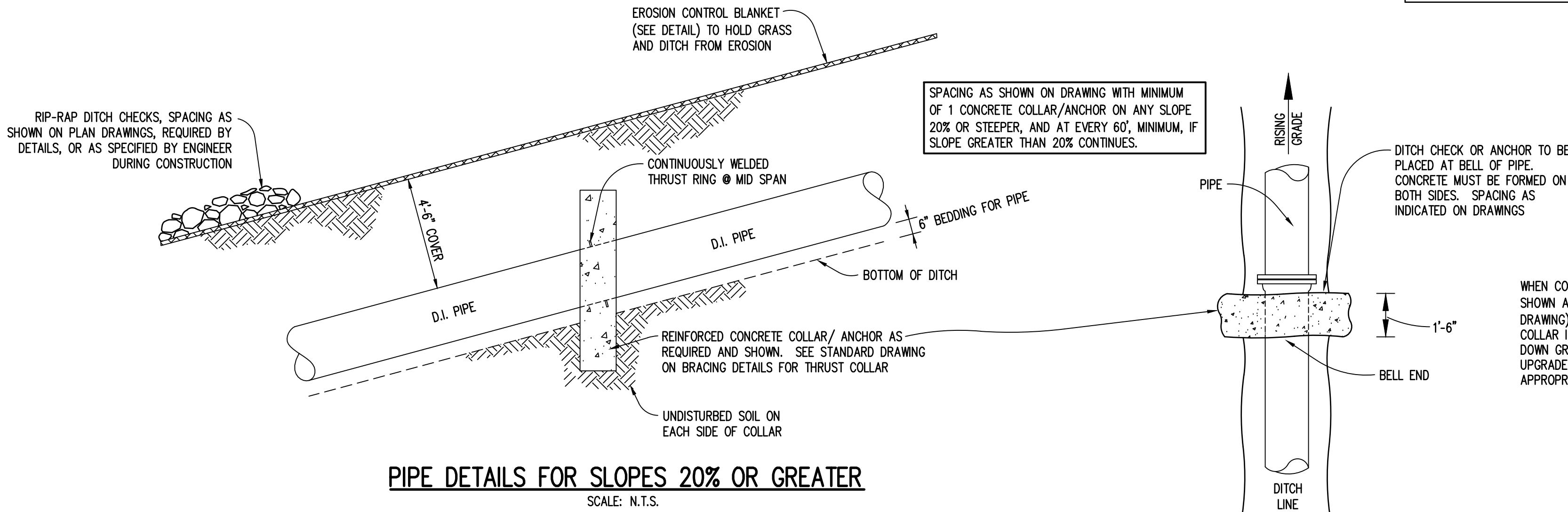
6" FIRE HYDRANT
INSTALLATION DETAIL
SCALE: N.T.S.

- NOTES:
1. ALL PIPE SHALL BE DUCTILE IRON.
 2. NOZZLE SIZES AND THREADS SHALL MATCH LOCAL FIRE DEPARTMENT REQUIREMENTS UNLESS INDICATED OTHERWISE. PROVIDE WITH STORZ NOZZLE ON PUMPER.
 3. PROVIDE HYDRANTS WITH DEPTH OF BURY HEIGHTS AS REQUIRED TO MAINTAIN ABOVE GROUND DIMENSIONS. FIRE HYDRANT EXTENSIONS WILL BE REQUIRED IF CORRECT HEIGHTS ARE NOT ACHIEVED. CONTRACTOR SHALL PLAN DEPTH OF BURY WITH OTHER CONSTRUCTION REQUIREMENTS AND ACTUAL PIPE INSTALL DEPTHS IN THE FIELD.
 4. PROVIDE LONGER ANCHOR COUPLINGS AS REQUIRED TO AVOID CONFLICTS.
 5. FIRE HYDRANTS TO BE PER OWNER STANDARDS.

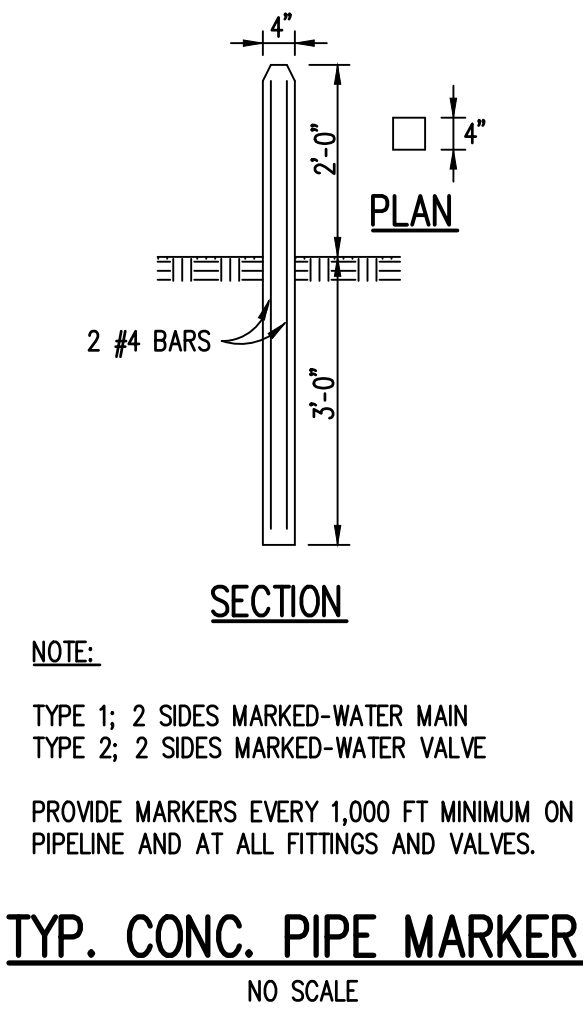
- FLEXIBLE PAVEMENT NOTES
1. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
 2. SURFACE TREATMENT PAVEMENT JOINTS SHALL BE LAPPED AND FEATHERED.
 3. PAVEMENT THICKNESSES SHOWN ARE MINIMUMS. CONTRACTOR SHALL RESTORE PAVEMENT TO MATCH EXISTING CONDITIONS WHEN THICKNESSES ARE GREATER THAN THE MINIMUM SHOWN.
 4. TRENCH BACKFILL, SUBGRADE, AND ASPHALT PAVEMENT PLACEMENT AND COMPACTION SHALL MEET ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
 5. DIMENSIONS SHOWN REFLECT PAY LIMITS FOR BINDER AND SURFACE COURSE UNLESS SHOWN OTHERWISE.
 6. REQUIREMENTS FOR TEMPORARY PAVING OF THE TRENCH SHALL BE AS DIRECTED BY THE INSPECTOR BASED ON THE LOCAL REQUIREMENTS WHERE THE WORK IS BEING PERFORMED.



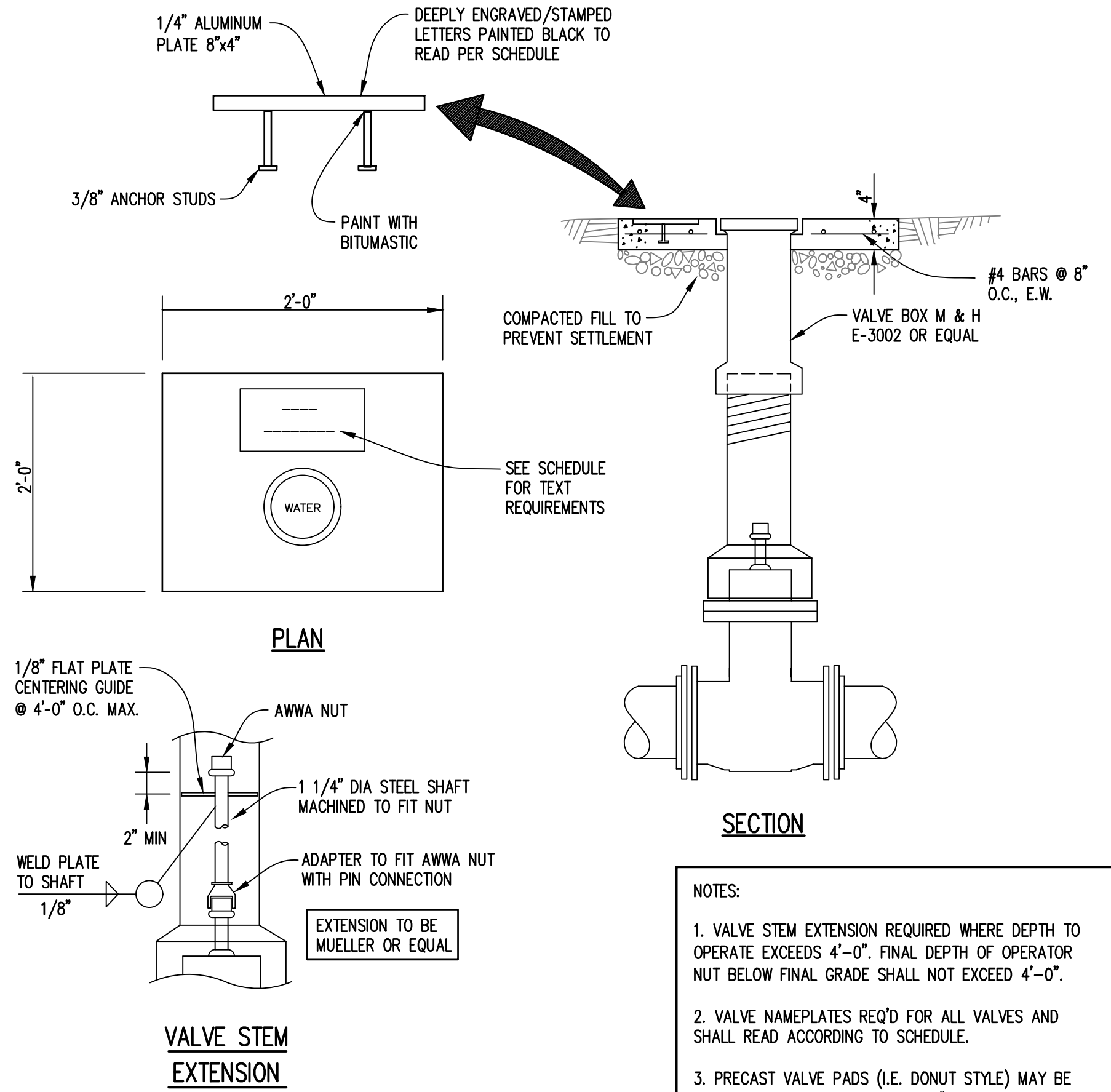
TYP. ROAD CROSSING BY OPEN CUT
SCALE: N.T.S.



ALTERNATE ANCHOR UNLESS
SPECIFIED OTHERWISE
SCALE: N.T.S.

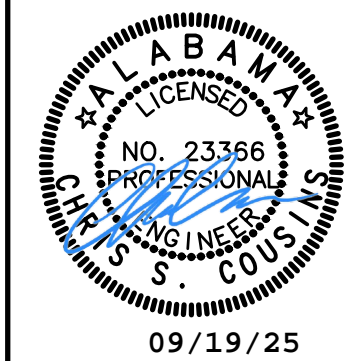
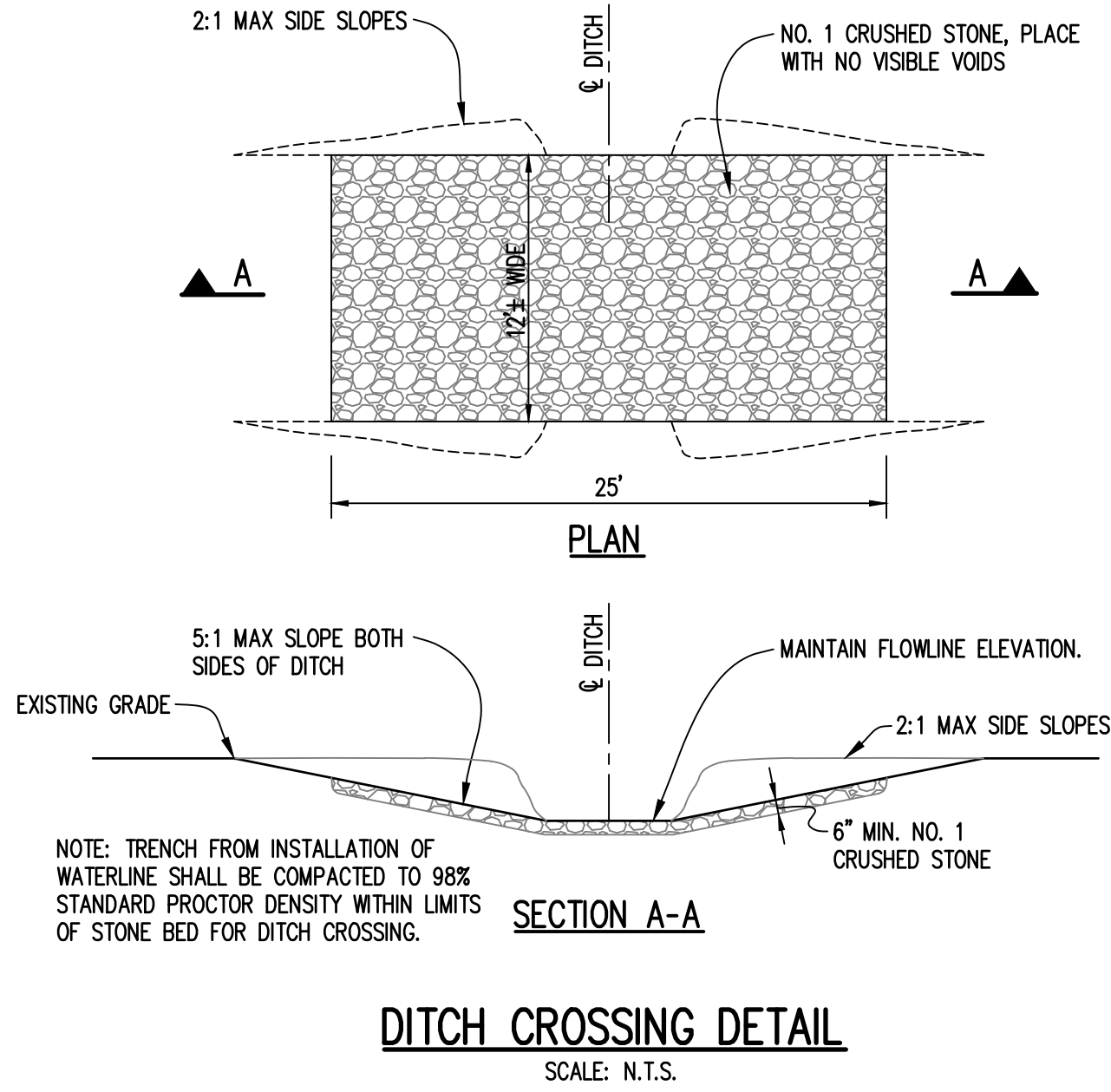
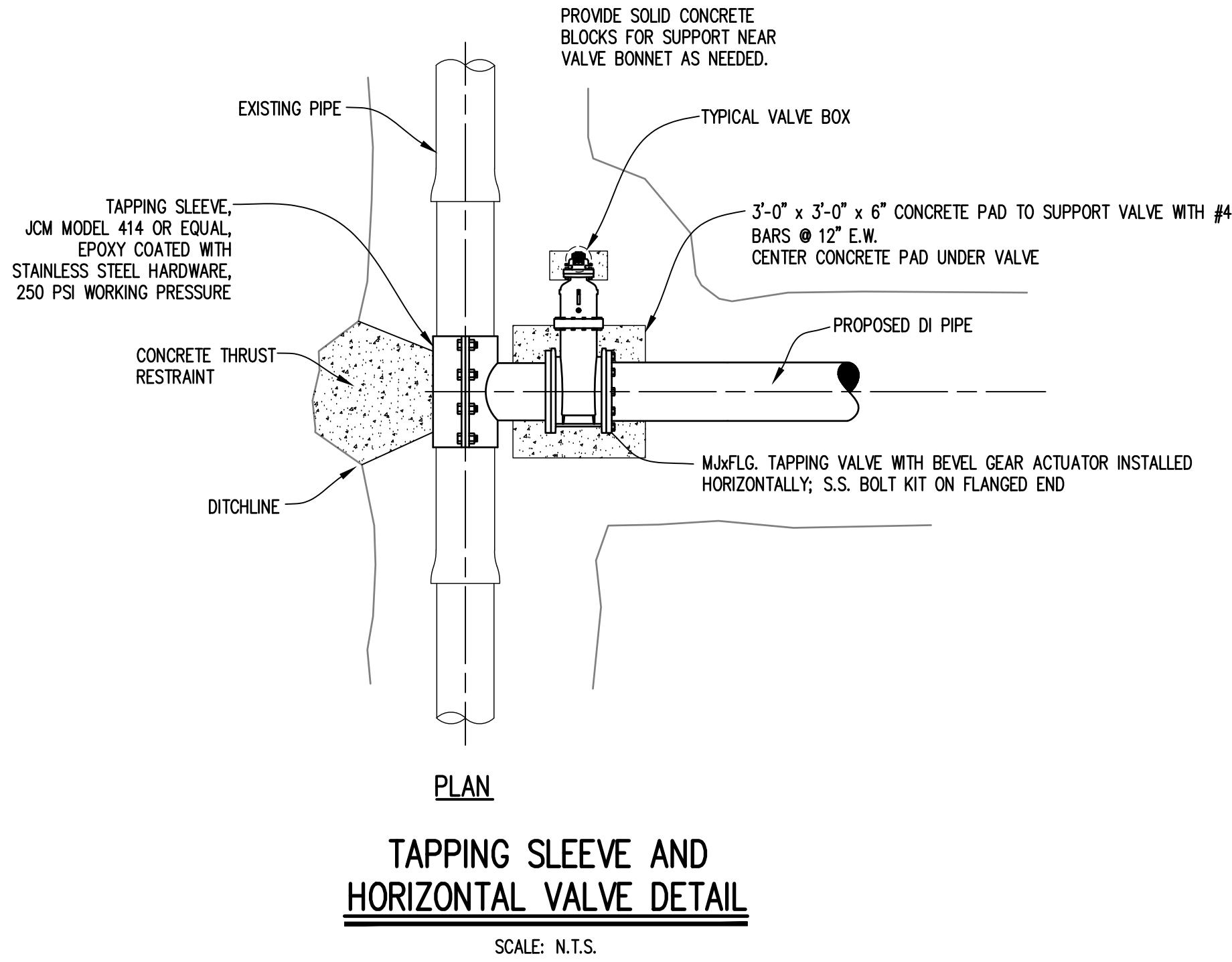


TYP. CONC. PIPE MARKER
NO SCALE



VALVE BOX DETAIL
SCALE: N.T.S.

ENGRAVING SCHEDULE	
FIRE HYDRANT VALVES	ENGRAVING TO READ
FIRE HYDRANT CONNECTED TO 16"	SCWS 16" FH
LINE VALVES	ENGRAVING TO READ
36" LINE VALVES	SCWS 36" * - **
24" LINE VALVES	SCWS 24" * - **
16" LINE VALVES	SCWS 16" * - **
* VALVE NUMBER GIVEN BY ENGINEER	
** NUMBER OF TURNS TO OPEN/CLOSE VALVE	
ENGRAVING NOTES:	
1. COORDINATE VALVE NUMBERS WITH ENGINEER IN SUBMITTAL PROCESS.	
2. COORDINATE THE NUMBER FOR TURNS TO OPEN/CLOSE A VALVE WITH SUBMITTALS AND SPECIFIC LOCATION/VALVE. COORDINATE WITH ENGINEER DURING SUBMITTAL PROCESS. PROVIDE SUBMITTAL OF NUMBERING PLAN.	



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SHELBY COUNTY COMMISSION

NORTH-SOUTH CONNECTOR

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Title

DETAILS

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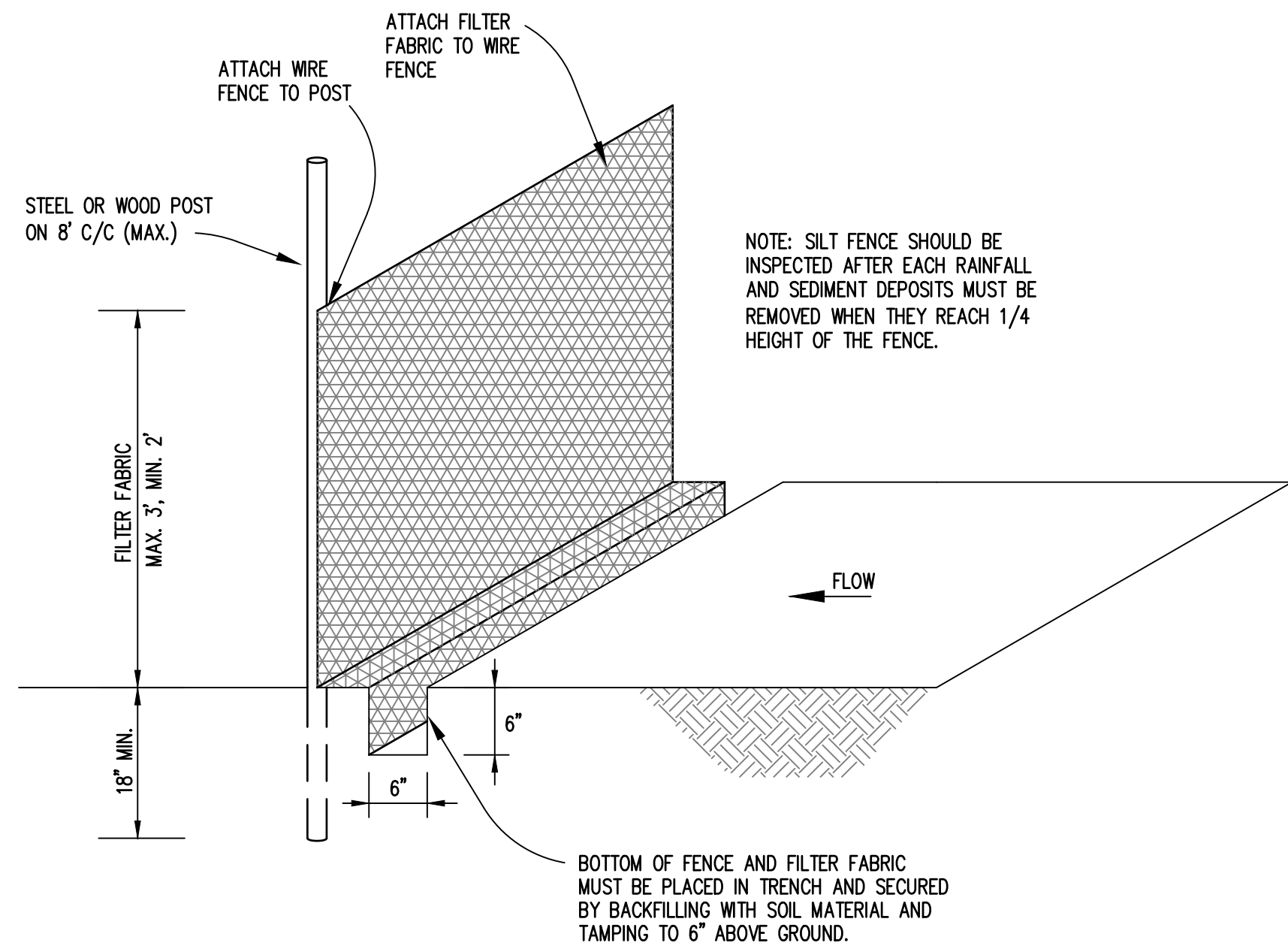
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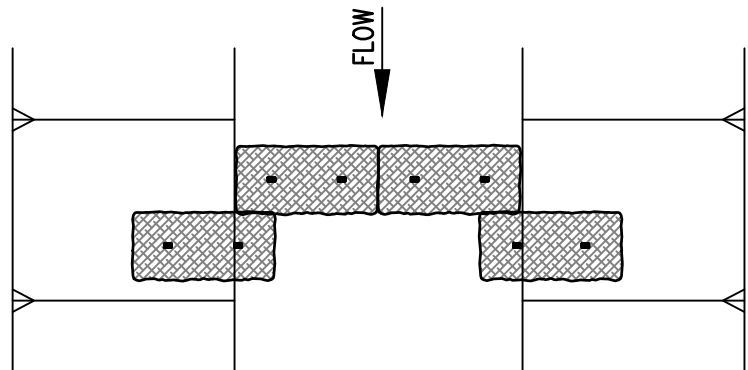
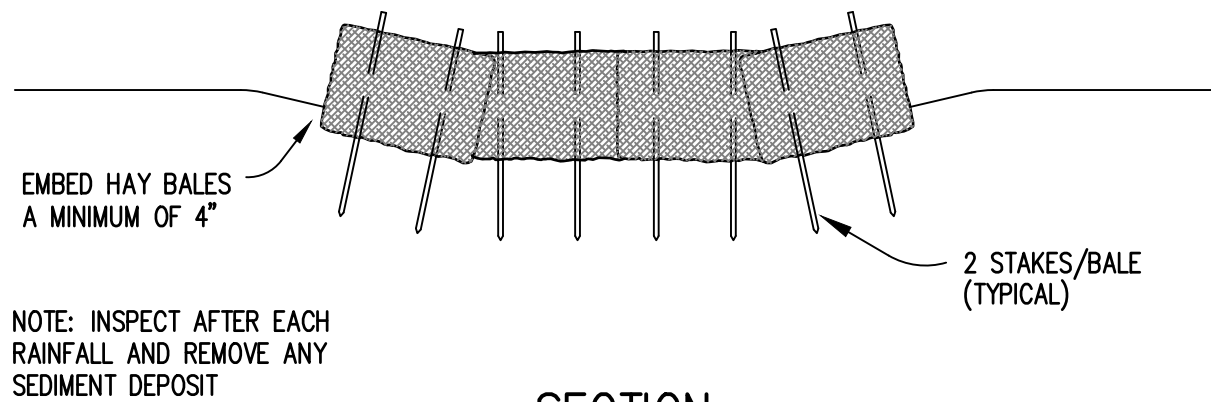
Date 1 - 25

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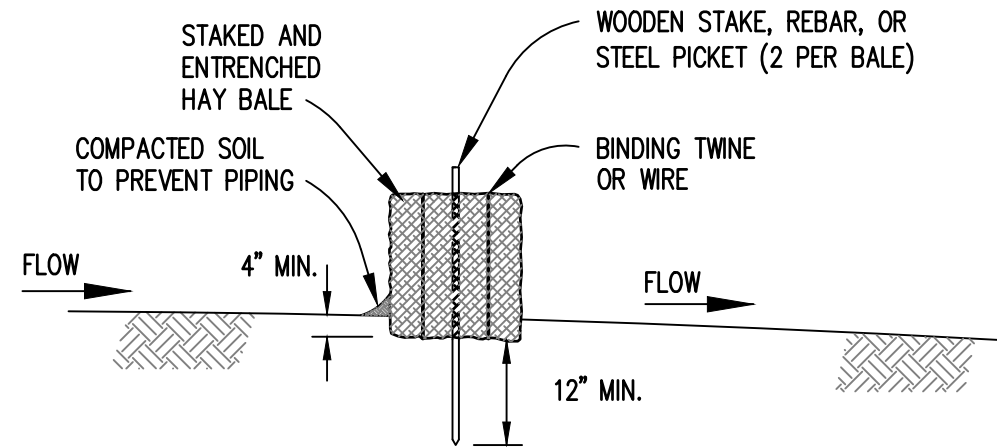
Sheet 12



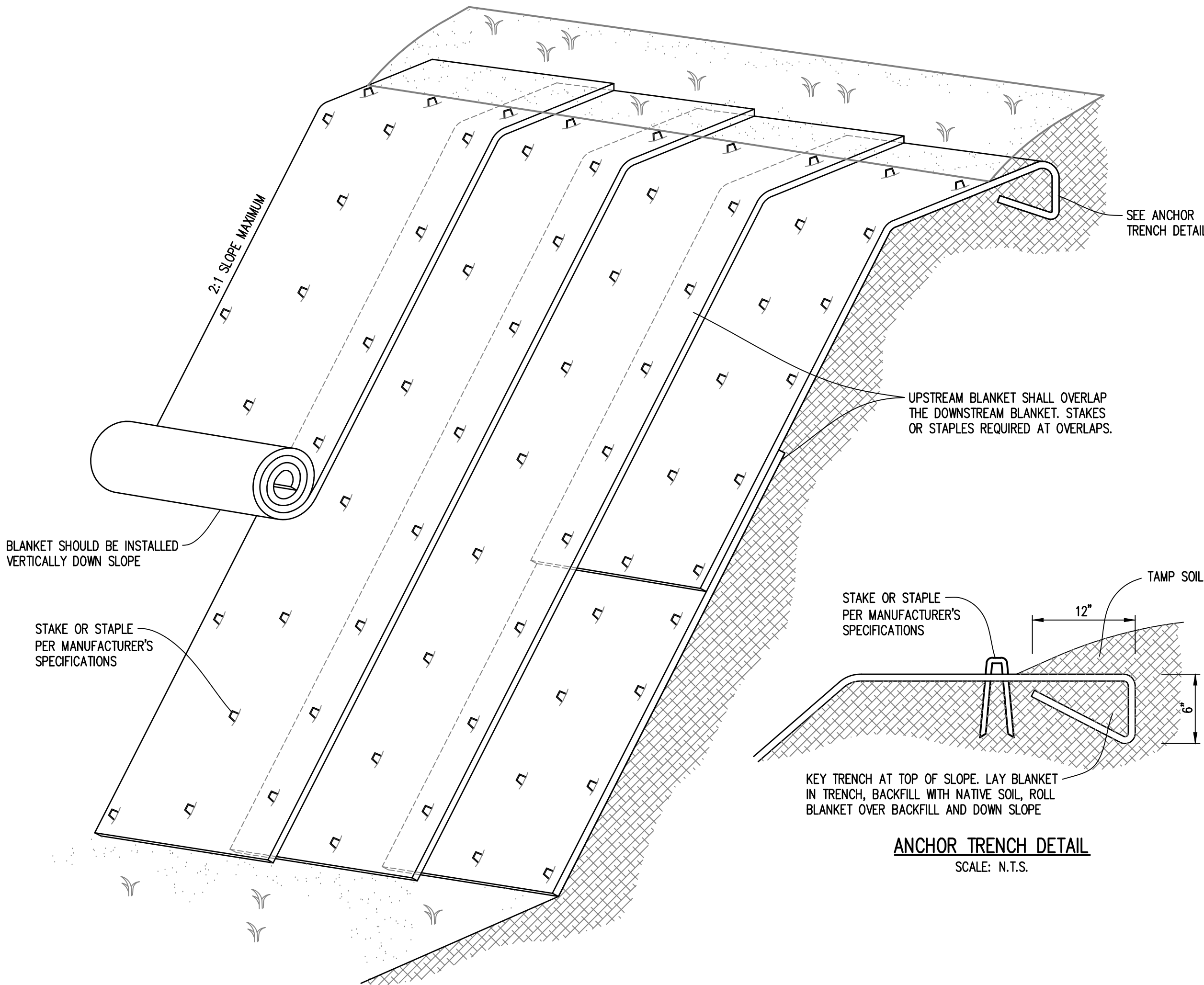
SILT FENCE DETAIL
SCALE: N.T.S.



HAY BALE DITCH CHECK DETAIL
SCALE: N.T.S.



HAY BALE STAKING DETAIL
SCALE: N.T.S.



EROSION CONTROL BLANKET NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS AND OTHER DEBRIS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT. SCARIFY AND/OR TILL SLOPE SURFACE 12" DEEP BEFORE LAYING BLANKET.
2. LAY BLANKETS LOOSELY AND STAKE OR STAPLE AS NEEDED TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH OR TWIST.
3. HAND WALK BLANKET DOWN SLOPE AS BLANKET IS STAKED OR STAPLED TO PREVENT STRETCHING.
4. DO NOT WALK ON BLANKET ONCE IN PLACE.
5. ALL ANCHORS SHAL BE INSTALLED PERPENDICULAR TO SLOPE.

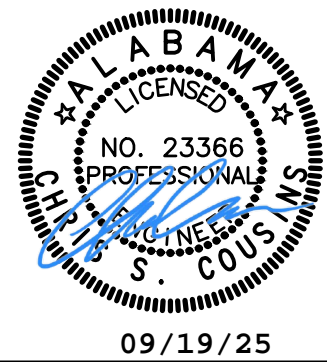
EROSION CONTROL BLANKET DETAIL
SCALE: N.T.S.

BMP GENERAL NOTES:

THE FOLLOWING REQUIREMENTS ARE TO BE CONSIDERED MINIMUM STANDARDS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES AND REGULATIONS. THE CONTRACTOR, WHERE NEEDED, SHALL OBTAIN AN NPDES PERMIT FOR THE PROPOSED WORK AS REQUIRED BY THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM). BY BIDDING THE PROJECT, THE CONTRACTOR IS CERTIFYING THAT IF AWARDED THE CONTRACT, HE WILL BE THE SOLE PERMITEE ON THIS PERMIT AND THAT HE SHALL INDEMNIFY THE OWNER AGAINST AND SHALL BE SOLELY RESPONSIBLE FOR ANY FINES OR MONETARY DAMAGES ASSOCIATED WITH STORMWATER RUNOFF AND CONTROL.

1. THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMP'S) FOR THE PREVENTION AND CONTROL OF NONPOINT SOURCES OF POLLUTANTS DURING AND AFTER PROJECT IMPLEMENTATION. THE CONTRACTOR, AT A MINIMUM, MUST IMPLEMENT BMP'S AS PROVIDED IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL & STORMWATER MANAGEMENT ON CONSTRUCTION SITES & URBAN AREAS, AS AMENDED, AND THE EPA STORMWATER POLLUTION PREVENTION FOR CONSTRUCTION ACTIVITIES-DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES, AS AMENDED. THE EROSION CONTROL DEVICES SHOWN ON THIS PLAN ARE A MINIMUM. ADDITIONAL DEVICES SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER AS REQD TO PREVENT SILTATION, EROSION, & OTHER DEGRADATION OR POLLUTION TO SITE OR ADJACENT PROPERTIES, STREAMS, DITCHES, PUBLIC ROADWAYS, ETC.
2. SITE GRADING SHALL BE MAINTAINED SO THAT NO UPSLOPE DRAINAGE ENTERS EXCAVATED OR DISTURBED AREAS.
3. TO THE EXTENT PRACTICAL, THE CONTRACTOR SHALL SCHEDULE HIS ACTIVITIES TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ANY ONE TIME.
4. ALL STOCKPILE EXCAVATED MATERIAL SHALL BE GRASSED OR COVERED WITHIN 72 HOURS OF STOCKPILING. GRASSING AND FERTILIZATION OF STOCKPILED SOILS SHALL BE AS PER THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL & STORMWATER MANAGEMENT ON CONSTRUCTION SITES & URBAN AREAS. SEED RATES SPECIFIED IN THE MANUAL SHALL BE DOUBLED. THIS WORK SHALL BE SUBSIDIARY TO THE "EROSION AND SEDIMENT CONTROL" BID ITEM, SEE BASIS OF PAYMENTS.

5. CONTRACTOR SHALL AS A MINIMUM INSPECT STORMWATER CONTROLS ONCE EVERY TWO WEEKS AND FOLLOWING A 1/2" OR GREATER RAINFALL IN ANY 24 HOUR PERIOD. SILT FENCING SHALL ALSO BE CHECKED WHEN WIND GUSTS EXCEED 25 MPH. DEFICIENCIES FOUND IN STORMWATER CONTROLS SHALL BE CORRECTED IMMEDIATELY. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL INSPECTION ACTIVITIES.
6. THE CONTRACTOR SHALL INSTALL SILT FENCING AROUND THE PROJECT PERIMETER PRIOR TO COMMENCING PROJECT. IN THE EVENT THAT THE PROJECT REQUIRES TEMPORARY CHANNELIZATION OF STORMWATER RUNOFF, THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN APPROPRIATE BMP CONTROLS (SETTLING BASINS, CHECK DAMS, ETC.)
7. PERMANENT VEGETATION OF ALL DISTURBED AREAS IS REQUIRED. ONCE ALL LAND DISTURBANCES HAVE CEASED & ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED, EROSION CONTROL DEVICES SHALL BE REMOVED.
8. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ON PUBLIC ROADWAYS IMMEDIATELY.
9. ALL DISTURBED AREAS LEFT INACTIVE FOR LONGER THAN 13 DAYS SHALL BE TEMPORARILY GRASSED OR COVERED TO PREVENT EROSION. THIS WORK SHALL BE SUBSIDIARY TO THE "EROSION AND SEDIMENT CONTROL" BID ITEM, SEE BASIS OF PAYMENTS.
10. PERMANENT TURF REINFORCEMENT MATS ARE REQUIRED ON ALL SLOPES 2:1 OR STEEPER, AS WELL AS ALL DITCH LINES & SIDES.
11. BMP MEASURES MAY BE SHOWN OUTSIDE OF CONSTRUCTION LIMITS AND/OR RIGHTS OF WAY FOR CLARITY. CONTRACTOR SHALL NOT INSTALL BMP'S BEYOND PROJECT BOUNDARIES.
12. CONTRACTOR IS RESPONSIBLE FOR THE RENEWAL OF ALL NPDES PERMITS AS REQUIRED FOR THE PROJECT.



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BAR = 1"

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DETAILS

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Drawing

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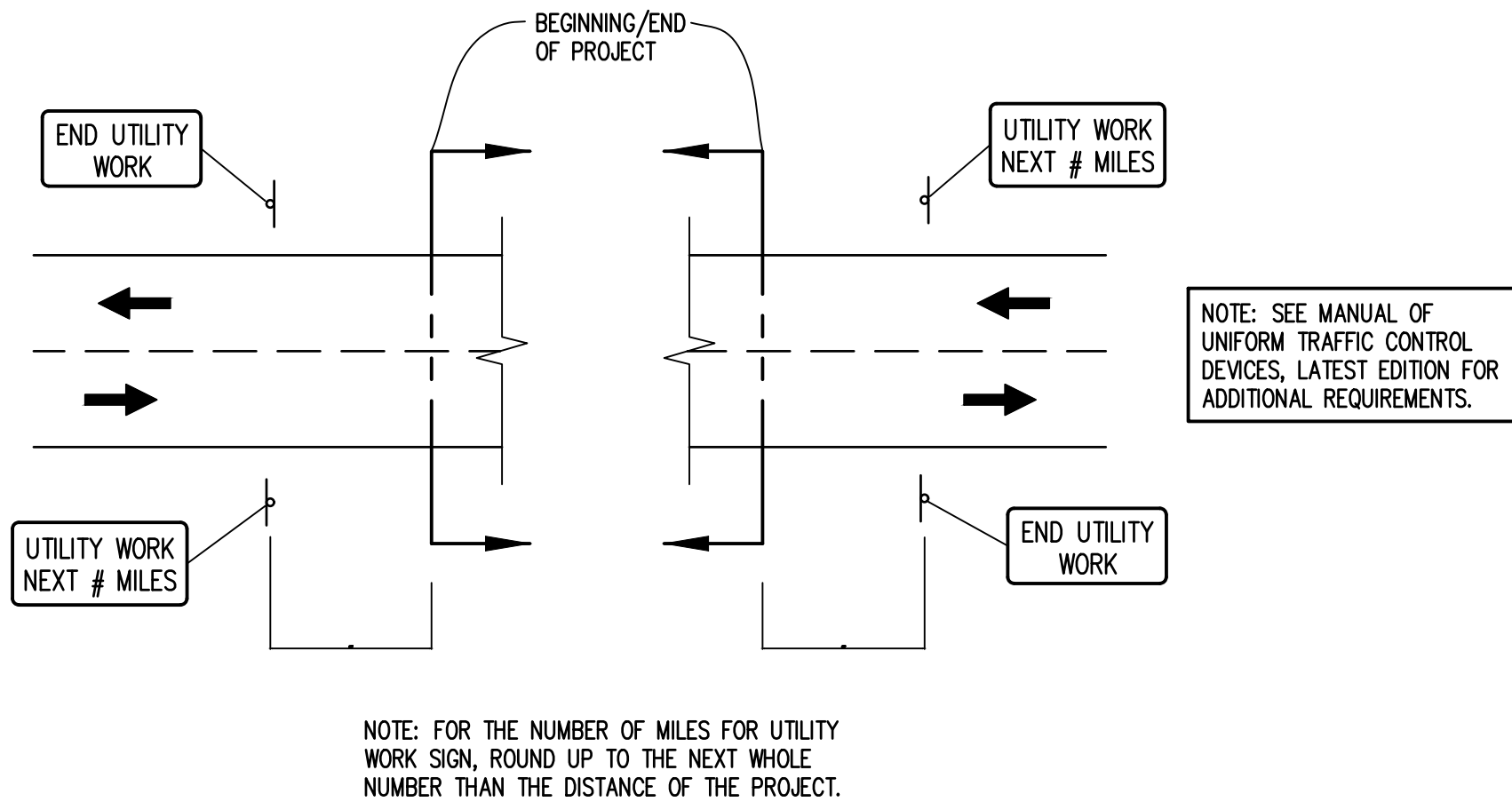
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Sheet 13

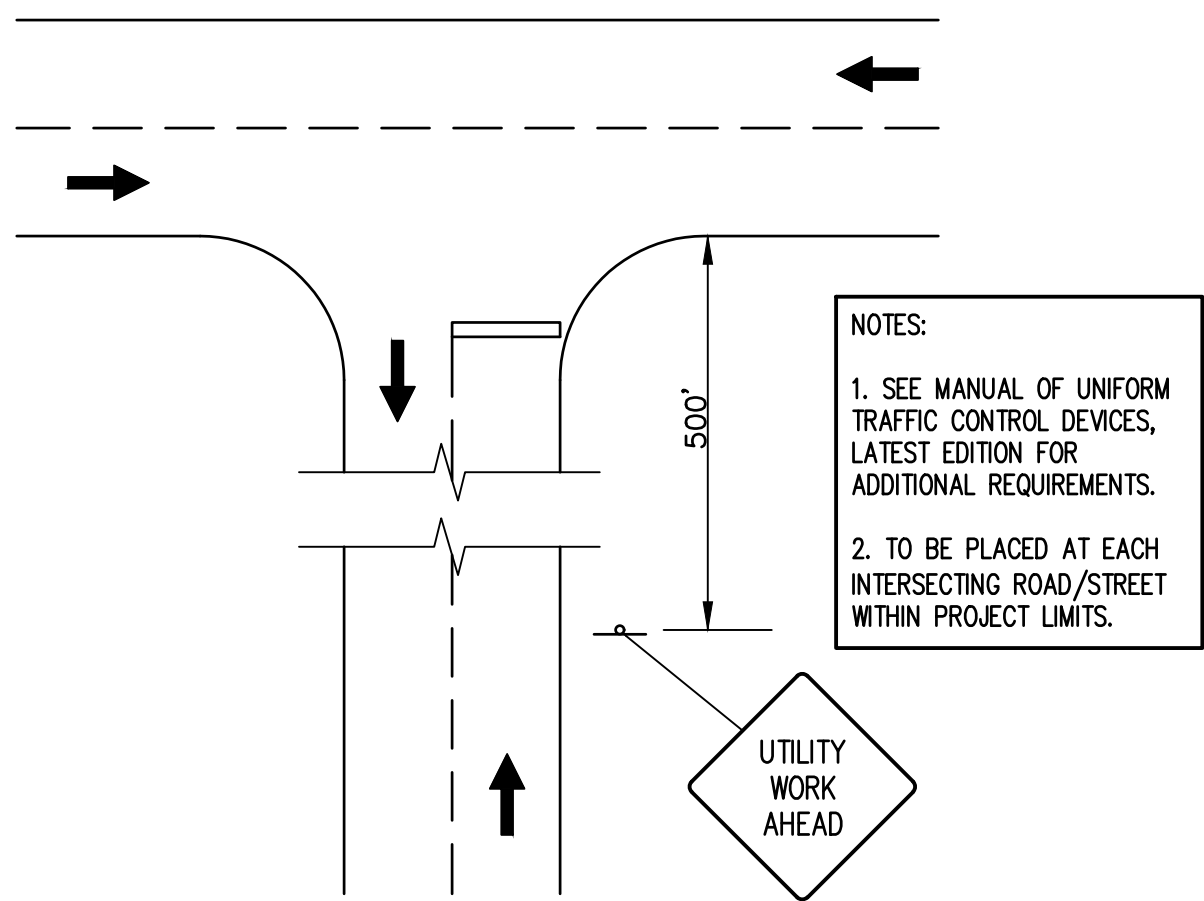
TRAFFIC CONTROL NOTES:

1. NO ONE SET OF TEMPORARY TRAFFIC CONTROL (TTC) DEVICES CAN SATISFY ALL CONDITIONS FOR A GIVEN PROJECT OR INCIDENT. AT THE SAME TIME, DEFINING DETAILS THAT WOULD BE ADEQUATE TO COVER ALL APPLICATIONS IS NOT PRACTICAL. INSTEAD, THESE DETAILS DISPLAY TYPICAL APPLICATIONS THAT DEPICT COMMON APPLICATIONS OF TTC DEVICES. THE TTC SELECTED BY THE CONTRACTOR FOR EACH SITUATION DEPENDS ON MANY FACTORS SUCH AS (BUT NOT LIMITED TO): THE TYPE OF HIGHWAY, ROAD USER CONDITIONS, DURATION OF OPERATION, PHYSICAL CONSTRAINTS, THE NEARNESS OF THE WORK SPACE OR INCIDENT MANAGEMENT ACTIVITY TO ROAD USERS, ETC. CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR DESIGNING, PLANNING AND COORDINATING ALL TRAFFIC CONTROL DETAILS AND THEIR SUCCESSFUL IMPLEMENTATION IN ACCORDANCE WITH THE APPROPRIATE AGENCIES REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AS A MINIMUM.
2. THE CONTRACTOR SHALL PREPARE HIS OWN SPECIFIC DETAILED TTC PLAN, PREPARED BY PERSON(S) TRAINED AND CERTIFIED IN PROPER TTC PRACTICES AND PRINCIPLES. PLAN SHALL HAVE DETAILS OF PLANNED WORK AND TTC MEASURES TO BE EMPLOYED BASED ON THE CONTRACTOR'S PLANNED MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR'S PLAN SHALL BE SUBMITTED TO THE APPROPRIATE AGENCY HAVING AUTHORITY OVER EACH ROADWAY IMPACTED BY THIS WORK FOR REVIEW AND APPROVAL BEFORE BEGINNING ANY WORK ON THE PROJECT. ANY CHANGES IN THE FINAL APPROVED TTC PLAN SHOULD BE APPROVED BY THE SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT.
3. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR SAFETY. THE ENGINEER IS NOT RESPONSIBLE FOR SAFETY. THE CONTRACTOR SHALL CONTINUOUSLY UTILIZE SAFETY PRACTICES THAT MAY BE NEEDED FOR FULL PROTECTION OF ALL PERSONS INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION PERSONNEL, THE OWNER'S PERSONNEL, FIELD ENGINEERS, INSPECTORS, THE GENERAL PUBLIC, ETC. ALL WORKERS SHALL CAREFULLY FOLLOW PROPER SAFETY PROCEDURES AT ALL TIMES.
4. ALL WORKERS SHOULD BE TRAINED ON HOW TO WORK NEXT TO MOTOR VEHICLE TRAFFIC IN A WAY THAT MINIMIZES THEIR VULNERABILITY. WORKERS HAVING SPECIFIC TTC RESPONSIBILITIES SHOULD BE TRAINED IN TTC TECHNIQUES, DEVICE USAGE, PLACEMENT, ETC.
5. TO PROVIDE ACCEPTABLE LEVELS OF OPERATIONS, ROUTINE AND FREQUENT DAY AND NIGHT INSPECTIONS OF TTC ELEMENTS SHOULD BE PERFORMED BY THE CONTRACTOR. INDIVIDUALS THE CONTRACTOR EMPLOYS FOR TTC SHOULD BE KNOWLEDGEABLE (FOR EXAMPLE, TRAINED AND/OR CERTIFIED) AND EXPERIENCED IN THE PRINCIPLES OF PROPER TTC AND SHOULD BE ASSIGNED RESPONSIBILITY FOR SAFETY IN TTC ZONES. THESE INDIVIDUALS SHOULD CHECK THAT ALL TTC DEVICES OF THE PROJECT ARE CONSISTENT WITH THE TTC PLAN; ARE EFFECTIVE FOR MOTORISTS, BICYCLISTS, PEDESTRIANS, AND WORKERS; MEET ALL SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT REQUIREMENTS; CONDUCT HAZARD ASSESSMENTS; DETERMINE WHETHER ENGINEERING, ADMINISTRATIVE, OR PERSONAL PROTECTION MEASURES SHOULD BE IMPLEMENTED; ENSURE CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AS A MINIMUM; ENSURE CONFORMANCE WITH OSHA REQUIREMENTS; ETC. THE CONTRACTOR SHALL PROPERLY AND CAREFULLY MAINTAIN ALL HIS TRAFFIC CONTROL DEVICES THROUGHOUT THE ENTIRE DURATION OF THE PROJECT.
6. SPECIAL PLANS PREPARATION AND COORDINATION WITH HIGHWAY AGENCIES, LAW ENFORCEMENT AND OTHER EMERGENCY UNITS, UTILITIES, SCHOOLS, TRUCKING COMPANIES, INDUSTRIES, OSHA, ETC. MIGHT BE NEEDED TO ADDRESS SPECIAL, UNEXPECTED, OR UNUSUAL ROAD USER OPERATION SITUATIONS.
7. ALL PERSONS WHO ARE EXPOSED EITHER TO TRAFFIC OR WORK VEHICLES AND CONSTRUCTION EQUIPMENT WITHIN OR NEAR THE TTC ZONE SHALL ALWAYS WEAR HIGH VISIBILITY (AND HIGH REFLECTIVITY) SAFETY APPAREL AS SPECIFIED BY THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AS A MINIMUM.
8. PROJECT NOTIFICATION SIGNS ARE REQUIRED AT EACH END OF THE SITE, STATING THE SPONSOR, TYPE OF CONSTRUCTION, START DATE, AND DURATION, PLACED A MINIMUM OF ONE WEEK IN ADVANCE OF COMMENCING CONSTRUCTION. SIGN AND PLACEMENT OF SIGN SHALL BE AS APPROVED BY THE SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT.
9. ROADS MUST REMAIN OPEN AT ALL TIMES DURING THE ENTIRE CONSTRUCTION PROJECT. SINGLE LANE CLOSURES SHALL BE COORDINATED WITH SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT WHEN NECESSARY FOR CONSTRUCTION ACTIVITIES. THESE LOCATIONS AND PLANNED DETAILS SHOULD BE SHOWN IN THE CONTRACTOR'S TRAFFIC CONTROL PLANS SUBMITTED TO THE SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT. LANE CLOSURES ARE NOT ALLOWED AT NIGHT OR DURING THE MORNING AND AFTERNOON PEAK TRAVEL TIMES OR DURING PERIODS OF RAIN, ETC.
10. DURING NON-WORKING HOURS NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET FROM THE EDGE OF ANY ROADWAY CARRYING TRAFFIC IF POSSIBLE. CHANNELIZING DRUMS ARE TO BE LOCATED ALONG THE EDGE OF THE ROADWAY (SEE TYPICAL MATERIAL AND EQUIPMENT STORAGE DETAIL THIS SHEET) WHEN EQUIPMENT OR MATERIAL IS STORED LESS THAN 30' FROM ROADWAY. ALL CONTRACTOR'S EMPLOYEES' PERSONAL VEHICLES, AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION, SHALL BE PARKED A MINIMUM OF 30 FEET FROM THE TRAVELED ROADWAY DURING WORKING HOURS, AS NOT TO CREATE A HAZARD.
11. WHERE THE LOCATION OF A REQUIRED SIGN FALLS IN A DRIVEWAY, SIDEWALK, BRIDGE, ETC., OR IN A NON-DESIRABLE LOCATION, OR WHERE THE VISIBILITY OF A SIGN IS LIMITED TO THE TRAVELING PUBLIC, ETC., THE LOCATION SHALL BE ADJUSTED AS APPROVED BY THE SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT.
12. WHEN FLAGGERS ARE REQUIRED TO BE USED THEY SHALL BE TRAINED, EXPERIENCED, AND MEET ALL REQUIREMENTS AND CAREFULLY FOLLOW ALL PROCEDURES OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AS A MINIMUM AND THE SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT. ALL HAND SIGNALING DEVICES AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AS A MINIMUM AND THE SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT.
13. ALL TRAFFIC CONTROL DEVICES (SIGNS, SIGNALS, MARKINGS, CHANNELIZING DEVICES, LIGHTS, TEMPORARY TRAFFIC BARRIERS, AND OTHER DEVICES); THEIR PLACEMENTS; AND THEIR MAINTENANCE SHALL BE PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AS A MINIMUM AND THE SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT.
14. ANYTIME PIPE IS STRUNG OUT WITHIN 10 FEET OF THE ROAD, TRAFFIC DRUMS, ACCEPTABLE TO SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT ARE REQUIRED TO BE PLACED BETWEEN THE ROAD AND THE PIPE AT SPACING APPROVED BY SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT. THE TRAFFIC DRUMS SHALL BE PLACED SIMULTANEOUSLY WITH OR PRIOR TO THE PLACEMENT OF THE PIPE.
15. KEEP ALL GRAVEL, MUD, AND DIRT, ETC., CONTINUALLY AND EFFECTIVELY CLEANED FROM ALL ROADS AT ALL TIMES.
16. KEEP DEVICES AND REFLECTIVE SURFACES, ETC., CLEAN SO THEY CAN EFFECTIVELY SERVE THEIR PURPOSE.
17. IF THE PAVING OR ROAD IS DAMAGED BY THE CONTRACTOR, IT SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT HIS EXPENSE. NO PAVING OR ROAD SHALL BE LEFT OVERNIGHT IN A POTENTIALLY UNSAFE CONDITION, OR IN A CONDITION THAT MAY BECOME UNSAFE. ALL SUCH REPAIRS, AND THE TIMING FOR THE REPAIRS, SHALL BE TO THE SATISFACTION OF THE OWNER AND THE SHELBY COUNTY ROADS AND TRANSPORTATION DEPARTMENT.



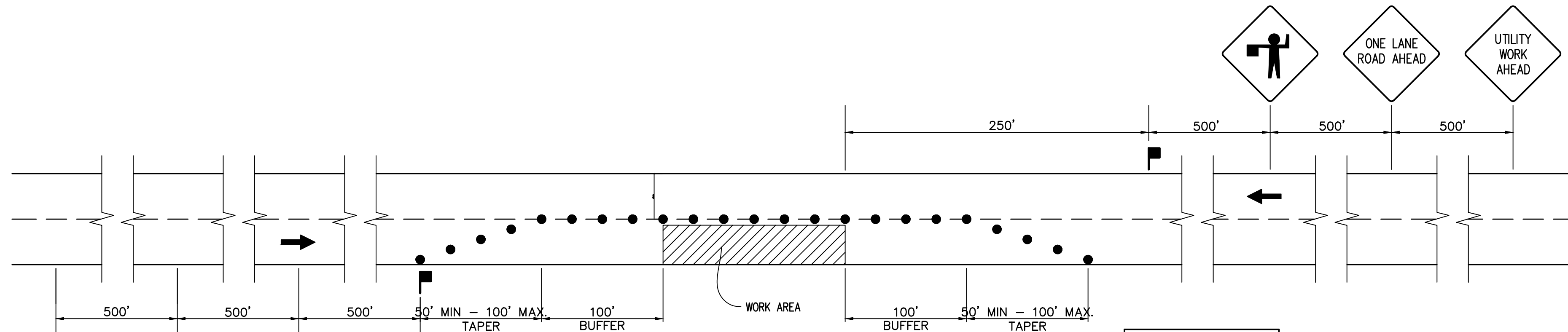
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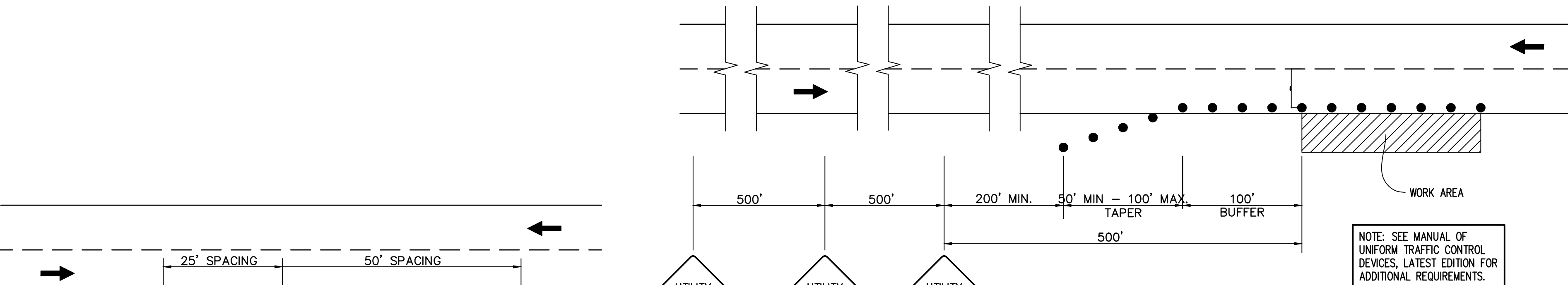
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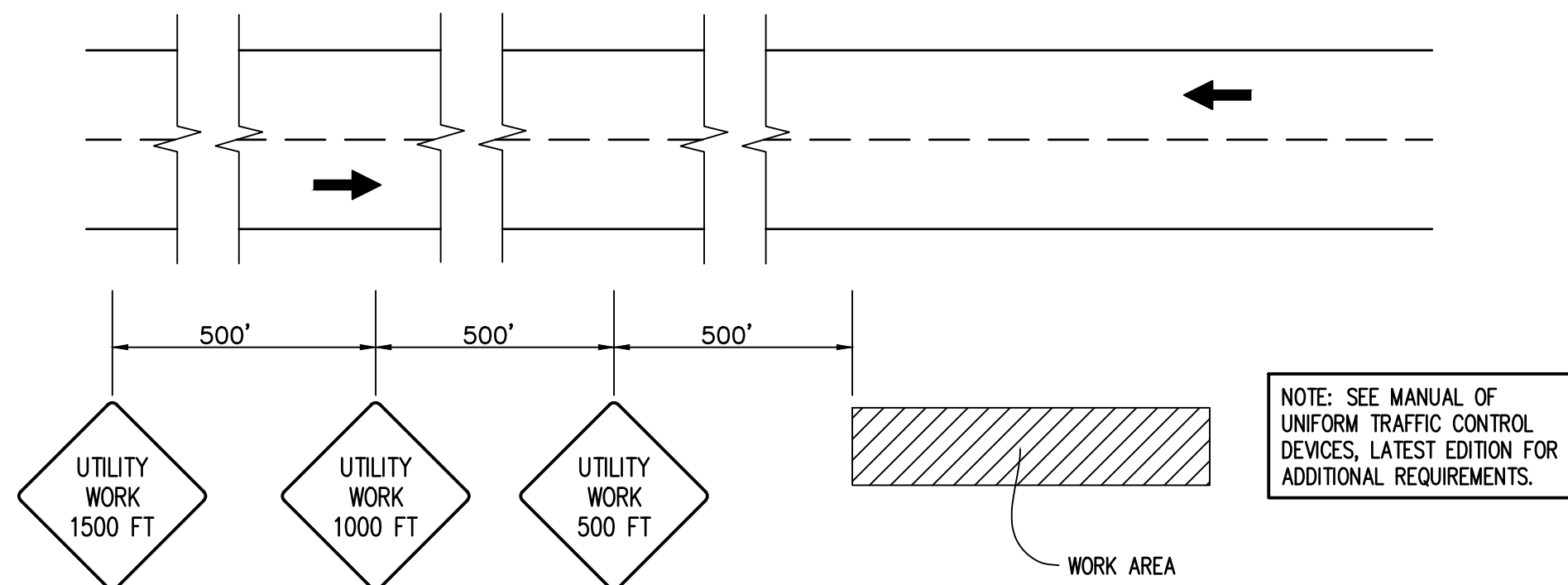
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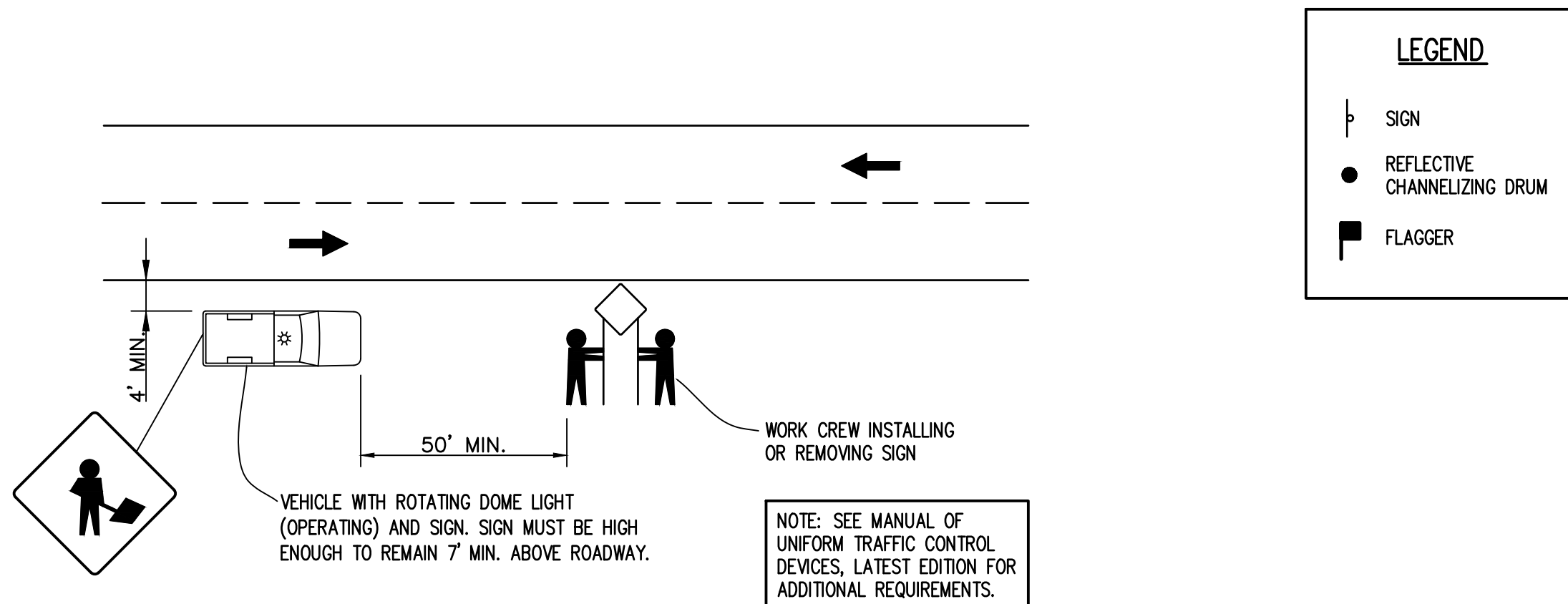
TYPICAL SHOULDER ENCROACHMENT DETAIL

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TYPICAL WORK BEYOND THE SHOULDER DETAIL

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TYPICAL PLACEMENT AND REMOVAL OF SIGNAGE DETAIL

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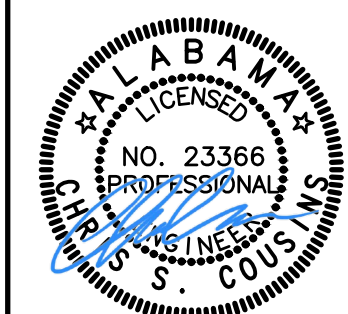
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SHELBY COUNTY COMMISSION

NORTH-SOUTH CONNECTOR

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BAR = 1"

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