



Alabama State Port Authority
Requisition and Proposal

Project Name Dunlap Drive Paving and Drainage Repair

Project No. 11183 **Task No.** 2

To: Prospective Bidders

Date: July 2023

Please procure the following and deliver to the address below:

Delivery of Proposal Alabama State Port Authority	Delivery of Work Alabama State Port Authority Dunlap Drive Mobile, AL
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DESCRIPTION OF WORK

This Requisition solicits proposals for asphalt paving and drainage repair as shown on the designated drawings on Dunlap Drive for the Alabama State Port Authority (ASPA). Work will be in accordance with the requirements stated herein, attached insurance requirements, all referenced documents, and applicable State of Alabama Laws.

The work consists principally of providing bonds, labor, materials, equipment, insurance, and supervision necessary for the specified asphalt paving work designated on the project drawings. All the work shall be as is shown on the referenced drawings. The project site is located on Dunlap Drive in Mobile, Alabama.

All Contractors submitting bids are to carefully examine the site of the proposed work by appointment only and thoroughly review the contract requirements prior to submission of a bid proposal. Each Bidder shall satisfy oneself as to the character, quality, and quantities of work to be performed, and as to the requirements of the proposed contract. The submission of a proposal shall be proof that the bidding Contractor has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the proposed Contract. All bidding Contractors must hold the proper license from the State Licensing Board for General Contractors, Montgomery, Alabama if the cost for the project is \$50,000 or more. The license classification shall be HS (Highways and Streets), MU (Municipal and Utility), or MU-S (Municipal and Utility: Paving and Asphalt)

A **MANDATORY** pre-bid meeting is scheduled for Tuesday, July 18, 2023 at 10:30 a.m. The meeting location will be near the work location on Dunlap Drive, just past the entrance to Alabama Shipyard. Any prospective bidders needing directions should call the project manager a minimum of 24 hours in advance of the meeting.

The work performed under this contract shall not commence until the Contractor has submitted a Performance Bond, Labor & Material Bond, and Certificate of Insurance. Performance Bond shall be in an amount equal to 100% of the contract price; Labor & Material Bond equal to 100% of the contract price; and Certificate of Insurance shall be as per the attached requirements and countersigned by a licensed resident agent in the State of Alabama. The work performed under this contract shall not commence until the Contractor has submitted bonds and insurance in an acceptable form.

The Contractor will be required to complete the work under the Contract within thirty (30) calendar days after receipt of a "Notice to Proceed". The work will have to be scheduled and performed in a manner that will not interfere with the operations of the facility ongoing in the immediate and adjacent areas. Work will start not later than ten (10) calendar days after receipt of notice to proceed. ASPA intent is that work hours will be during normal day light hours. The contractor will be required to submit a detailed schedule within 10 days of the "Notice to Proceed" and before work begins.



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DESCRIPTION OF WORK (CONTINUED)

The Contractor shall comply with all Federal and State laws, local ordinances and regulations, and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the work, or which in any way affect the conduct of the work.

The Contractor shall place a competent superintendent on the Project who shall have experience in the work being performed under the Contract. The assigned superintendent shall have the responsibility for the day-to-day operations of the work and shall remain on the Project site while the work under the Contract is being performed.

Time is an essential element in the contract. As the prosecution of the work will inconvenience the tenant and interfere with business, it is important that the work be pressed vigorously to completion. Also, the cost to the Alabama State Port Authority of the administration of the contract, supervision, inspection and engineering will be increased as the time occupied in the work is lengthened. Therefore, exclusive of Sundays and national holidays, for each day that the work remains incomplete after the time specified, an amount of \$300.00 shall be paid by the contractor to the Alabama State Port Authority as liquidated damages for the loss sustained by the State because of failure of the contractor to complete the work within the specified time.

IMPORTANT NOTICE TO BIDDERS REGARDING EMPLOYMENT PRACTICES: Effective October 1, 2011, the Beason-Hammon Alabama Taxpayer and Citizen Protection Act (“the Act”) requires that any business entity contracting with or providing any grant or incentives to the state, including the Alabama State Port Authority, certify compliance with the Act. All Bidders must certify such compliance by executing the enclosed “Certificate of Compliance” and returning it to the Alabama State Port Authority with your bid package. In addition, the bidding company shall submit with their bid evidence that the company is enrolled in the E-Verify system. The following E-Verify website link is provided for convenience: http://www.dhs.gov/files/programs/gc_1185221678150.shtm.

IMPORTANT NOTICE TO BIDDERS REGARDING ACCESS TO ASPA RESTRICTED FACILITIES:

The work on this project is not within an ASPA secured location and will not require access credentials.



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CONTRACTOR'S PROPOSAL					
The Contractor hereby agrees to provide specified equipment and perform the specified work for the prices outlined in the following schedule. The quantities listed may be increased or decreased to the actual installed amount after construction. In the event the quantities do change, the unit price shall apply according to scope of work.					
BASE BID					
Item No.	Description	Unit	Quantity	Unit Price	Value
201A002	1. Clearing And Grubbing ¹	Lump Sum	Lump Sum	Lump Sum	\$_____
206C023	2. Removing Riprap	Square Yard	30	\$_____/SY	\$_____
206D000	3. Removing Pipe	Linear Foot	66	\$_____/LF	\$_____
210A000	4. Unclassified Excavation	Cubic Yard	200	\$_____/CY	\$_____
210D022	5. Borrow Excavation ²	Cubic Yard	75	\$_____/CY	\$_____
214A000	6. Structure Excavation	Cubic Yard	17	\$_____/CY	\$_____
214B001	7. Foundation Backfill, Commercial	Cubic Yard	26	\$_____/CY	\$_____
230A000	8. Roadbed Processing	Roadbed Station	9	\$_____/STA	\$_____
401A000	9. Bituminous Treatment A	Square Yard	2200	\$_____/SY	\$_____
408A053	10. Planing Existing Pavement ³	Square Yard	2200	\$_____/SY	\$_____
424A361	11. Superpave Bituminous Concrete ⁴	Ton	260	\$_____/Ton	\$_____
530A028	12. 48" Roadway Pipe (Class 5 R.C.)	Linear Foot	60	\$_____/LF	\$_____
600A000	13. Mobilization	Lump Sum	Lump Sum	Lump Sum	\$_____
614B000	14. Reinforced Slope Paving	Cubic Yard	5	\$_____/CY	\$_____
600A000	15. Topsoil	Cubic Yard	90	\$_____/CY	\$_____
619A057	16. 48" Pipe End Treatment, Class 2	Each	2	\$_____/EA	\$_____
652A100	17. Seeding	Acre	1	\$_____/AC	\$_____
652C000	18. Mowing	Acre	1	\$_____/AC	\$_____
654A001	19. Solid Sodding (Bermuda)	Square Yard	300	\$_____/SY	\$_____
656A010	20. Mulching	Acre	1	\$_____/AC	\$_____
665J002	21. Silt Fence	Linear Foot	1685	\$_____/LF	\$_____
-CONTINUED NEXT PAGE-					



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6650001	Silt Fence Removal	Linear Foot	1685	\$_____/LF	\$_____
680A001	22. Geometric Controls	Lump Sum	Lump Sum	Lump Sum	\$_____
740A000	23. Traffic Control Scheme	Lump Sum	Lump Sum	Lump Sum	\$_____
Base Bid Total (Item 1-24)				\$_____	
¹ Maximum Allowable Bid \$5,000 Per Acre (Approx. 0.25) ² Loose Truckbed Measurement (A-2-4(0) or A-4(0)) ³ Approximately 2.10" Thru 3.0" Thick ⁴ Wearing Surface Layer, 3/4" Maximum Aggregate Size Mix, ESAL Range C/D (220 LB/SY)					
ADDITIVE ALTERNATE NO. 1					
405A000	24. Tack Coat	Gallon	110	\$_____/GAL	\$_____
424B650	25. Superpave Bituminous Concrete ⁵	Ton	250	\$_____/Ton	\$_____
⁵ Upper Binder Layer, 3/4" Maximum Aggregate Size Mix, ESAL Range C/D (220 LB/SY)					
Additive Alternate No. 1 (Item 25-26)				\$_____	

NOTES:

1. Sealed bid proposals will be received via courier to the Alabama State Port Authority, 1400 Alabama State Docks Blvd, Room 216, Administration Building, Mobile, AL 36602 by 1:00 P.M. on Wednesday, July 26, 2023. Sealed bid proposals can also be hand delivered from 1:45 P.M. to 2:00 P.M. on Wednesday, July 26, 2023, to the Alabama State Port Authority in the International Trade Center building, 250 North Water Street, 1st floor – Killian Room, Mobile, AL. The official bid opening will be conducted in the Killian Room at 2:00 P.M. on Wednesday, July 26, 2023. No faxed or electronic bids will be accepted. **Sealed bids shall have the bidder’s name, contractor’s license number, project name, and time and date of bid opening shown on the outside.**
2. A Bid Bond or Certified Check made payable to the Alabama State Port Authority and equal to five (5%) percent of the amount bid, not to exceed \$10,000, must accompany the Bid Proposal.
3. Authority reserves the right to refuse to issue a proposal form or a contract to a prospective bidder for any of the following reasons:
 - a) Failure to pay, or satisfactorily settle, all bills due for labor and materials on former contract in force with the Authority.
 - b) Contractor default under previous Contract with the Authority.
 - c) Proposal withdrawal or Bid Bond forfeiture on previous project with the Authority.
 - d) Unsatisfactory work on previous contract with the Authority.
4. Authority may make such investigations as deemed necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish all such information and data for this purpose as the Authority may request. The Authority reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Authority that such bidder is properly qualified to carry out the obligations of the Contract.



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NOTES (CONTINUED):

- Any questions regarding the procurement should be directed to Wesley Jackson, Project Manager, via email at wesley.jackson@alports.com.
- The right is reserved, as the interest of the Alabama State Port Authority may require, to reject any and all bids and to waive informalities in bids received.

SIGNATURES

Receipt of following addendums is acknowledged:

- Addendum No. _____
- Addendum No. _____
- Addendum No. _____

REFERENCED/ATTACHED DOCUMENTS

It is the sole responsibility of the prospective bidder to verify they have received all referenced/attached documents.

- Alabama State Port Authority –Insurance Requirements for Contract Work
- Certificate of Compliance with the Beason-Hammon Alabama Taxpayer and Citizen Protection Act.
- Drawings: Dunlap Drive Paving and Drainage

Contractor's Signature:

Contractor Company _____

Name	Title	Date

Signature of Party Originating Requisition:


 Wesley Jackson, E.I.
 Project Manager

7/6/23
Date

ALABAMA STATE PORT AUTHORITY **INSURANCE REQUIREMENTS FOR CONTRACT WORK**

INDEMNIFICATION

The Contractor shall assume all liability for and shall indemnify and save harmless the State of Alabama and the Alabama State Port Authority, and its officers and employees from all damages and liability for injury to any person or persons, and injury to or destruction of property, including the loss of use thereof, by reason of an accident or occurrence arising from operations under the contract, whether such operations are performed by himself or by any subcontractor or by anyone directly or indirectly employed by either of them occurring on or about the premises, or the ways and means adjacent during the term of the contract, or any extension thereof, and shall also assume the liability for injury and/or damages to adjacent or neighboring property by reason of work done under the contract.

INSURANCE REQUIREMENTS

The Contractor shall not commence work under the contract until he has obtained all insurance required under the following paragraphs and until such insurance has been approved by Alabama State Port Authority, nor shall the Contractor allow any subcontractor to commence work until all similar applicable insurance has been obtained by the subcontractor or the Contractor has provided coverage for the subcontractor. The Contractor shall provide, at his expense, insurance in accordance with the following:

General Requirements (applicable to all policies)

All policies of insurance must be written with companies acceptable to Alabama state port authority. The Contractor shall furnish to Alabama state port authority certificates of insurance, signed by the licensed agent, evidencing required coverages. Alabama state port authority reserves the right to require certified copies of any and all policies. Each policy of insurance shall provide, either in body of the policy or by endorsement, that such policy cannot be substantially altered or cancelled without thirty (30) days' written notice to Alabama state port authority and to the insured. **Except for Workers Compensation, said policies will identify Alabama State Port Authority, its officers, officials, agents, servants and employees as Primary and Non-contributory Additional Insureds in connection with work performed for, on behalf of, or on the property of Alabama state port authority.**

Commercial General Liability

The Contractor shall take out and maintain during the life of the contract Commercial General Liability insurance, including Blanket Contractual and Completed Operations coverages, in an amount not less than \$3,000,000 for any one occurrence for bodily injury, including death, and property damage liability.

Business Automobile Liability

The Contractor shall take out and maintain during the life of the contract Business Automobile Liability insurance covering any auto in an amount not less than \$1,000,000 for any one occurrence for bodily injury, including death, and property damage liability.

Workers Compensation

The Contractor shall take out and maintain during the life of the contract Workers Compensation and Employers Liability insurance providing coverage under the Alabama Workers Compensation Act in an amount not less than that required by Alabama law.

Professional Liability

The Contractor shall take out and maintain during the life of the contract Professional Liability insurance including design with limits not less than \$1,000,000 per occurrence.

Where applicable, Contractor shall take out and maintain during the life of the contract insurance providing coverage as required by Federal statute, including but not limited to U.S. Longshoremen and Harborworkers' Compensation Act (USL&H), Jones Act, and Railroad Federal Employers Liability Act (FELA).

State of _____

County of _____

CERTIFICATE OF COMPLIANCE WITH THE BEASON-HAMMON ALABAMA TAXPAYER AND CITIZEN PROTECTION ACT (ACT 2011-535, as amended by Act 2012-491)

DATE: _____

RE Contract/Grant/Incentive (describe by number or subject):

_____ by and between
_____(Contractor/Grantee) and
_____(State Agency, Department or Public Entity)

The undersigned hereby certifies to the State of Alabama as follows:

1. The undersigned holds the position of _____ with the Contractor/Grantee named above, and is authorized to provide representations set out in this Certificate as the official and binding act of that entity, and has knowledge of the provisions of THE BEASON-HAMMON ALABAMA TAXPAYER AND CITIZEN PROTECTION ACT (ACT 2011-535 of the Alabama Legislature, as amended by Act 2012-491) which is described herein as "the Act".
2. Using the following definitions from Section 3 of the Act, select and initial either (a) or (b), below, to describe the Contractor/Grantee's business structure.

BUSINESS ENTITY. Any person or group of persons employing one or more persons performing or engaging in any activity, enterprise, profession, or occupation for gain, benefit, advantage, or livelihood, whether for profit or not for profit. "Business entity" shall include, but not be limited to the following:

a. Self-employed individuals, business entities filing articles of incorporation, partnerships, limited partnerships, limited liability companies, foreign corporations, foreign limited partnerships, foreign limited liability companies authorized to transact business in this state, business trusts, and any business entity that registers with the Secretary of State.

b. Any business entity that possesses a business license, permit, certificate, approval, registration, charter, or similar form of authorization issued by the state, any business entity that is exempt by law from obtaining such a business license and any business entity that is operating unlawfully without a business license.

EMPLOYER. Any person, firm, corporation, partnership, joint stock association, agent, manager, representative, foreman, or other person having control or custody of any employment, place of employment, or of any employee, including any person or entity employing any person for hire within the State of Alabama, including a public employer. This term shall not include the occupant of a household contracting with another person to perform casual domestic labor within the household.

____ (a) The Contractor/Grantee is a business entity or employer as those terms are defined in Section 3 of the Act.

____ (b) The Contractor/Grantee is not a business entity or employer as those terms are defined in Section 3 of the Act.

3. As of the date of this Certificate, Contractor/Grantee does not knowingly employ an unauthorized alien within the State of Alabama and hereafter it will not knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama;
4. Contractor/Grantee is enrolled in E-Verify unless it is not eligible to enroll because of the rules of that program or other factors beyond its control.

Certified this _____ day of _____ 20 _____

Name of Contractor/Grantee/Recipient

By: _____

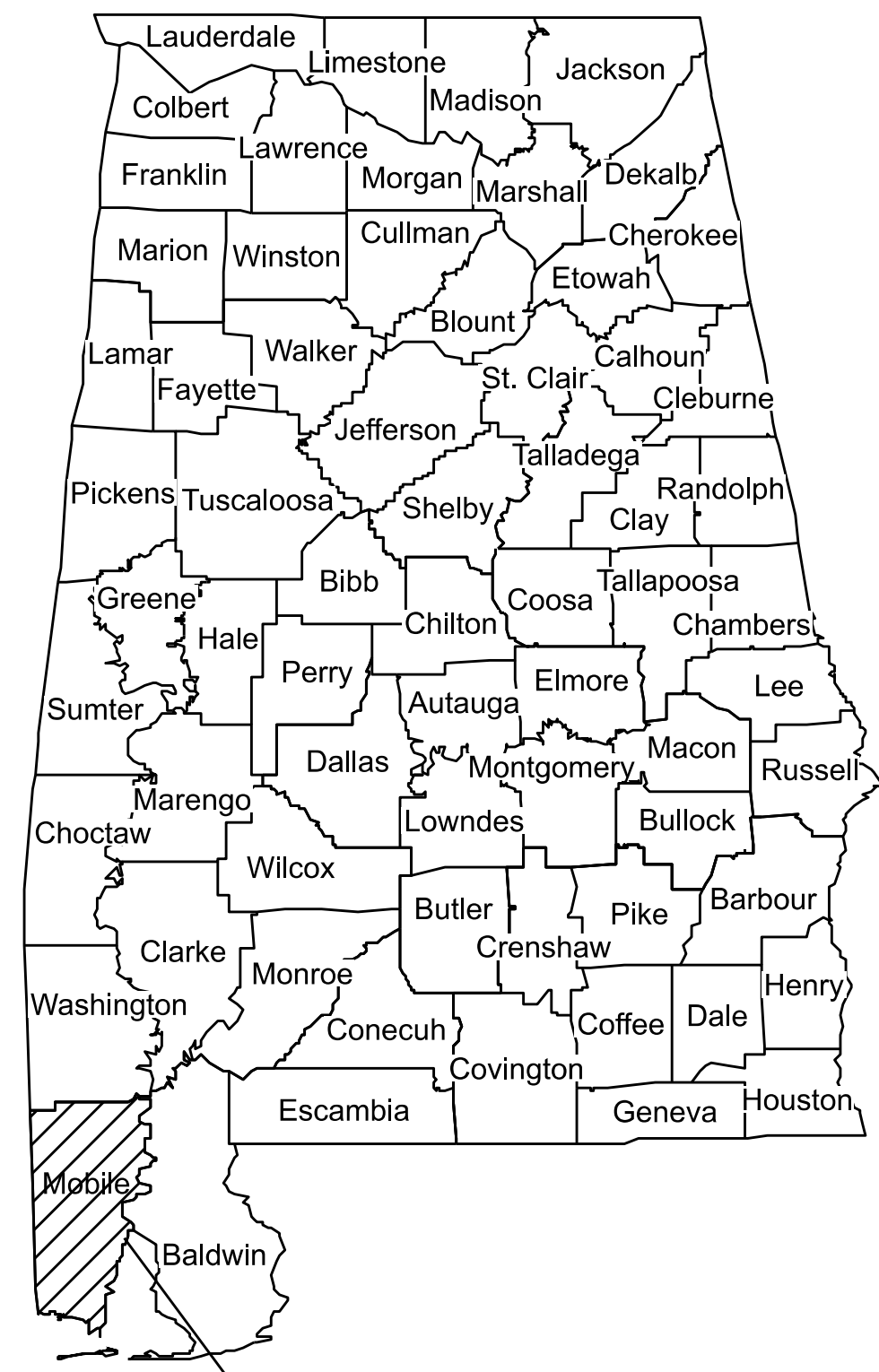
Its _____

The above Certification was signed in my presence by the person whose name appears above, on

this _____ day of _____ 20 _____.

WITNESS: _____

Printed Name of Witness



PROJECT LOCATION

ALABAMA

STATE PORT AUTHORITY

PLANS OF PROPOSED PROJECT NUMBER

11183.1

DUNLAP DRIVE PAVING AND DRAINAGE

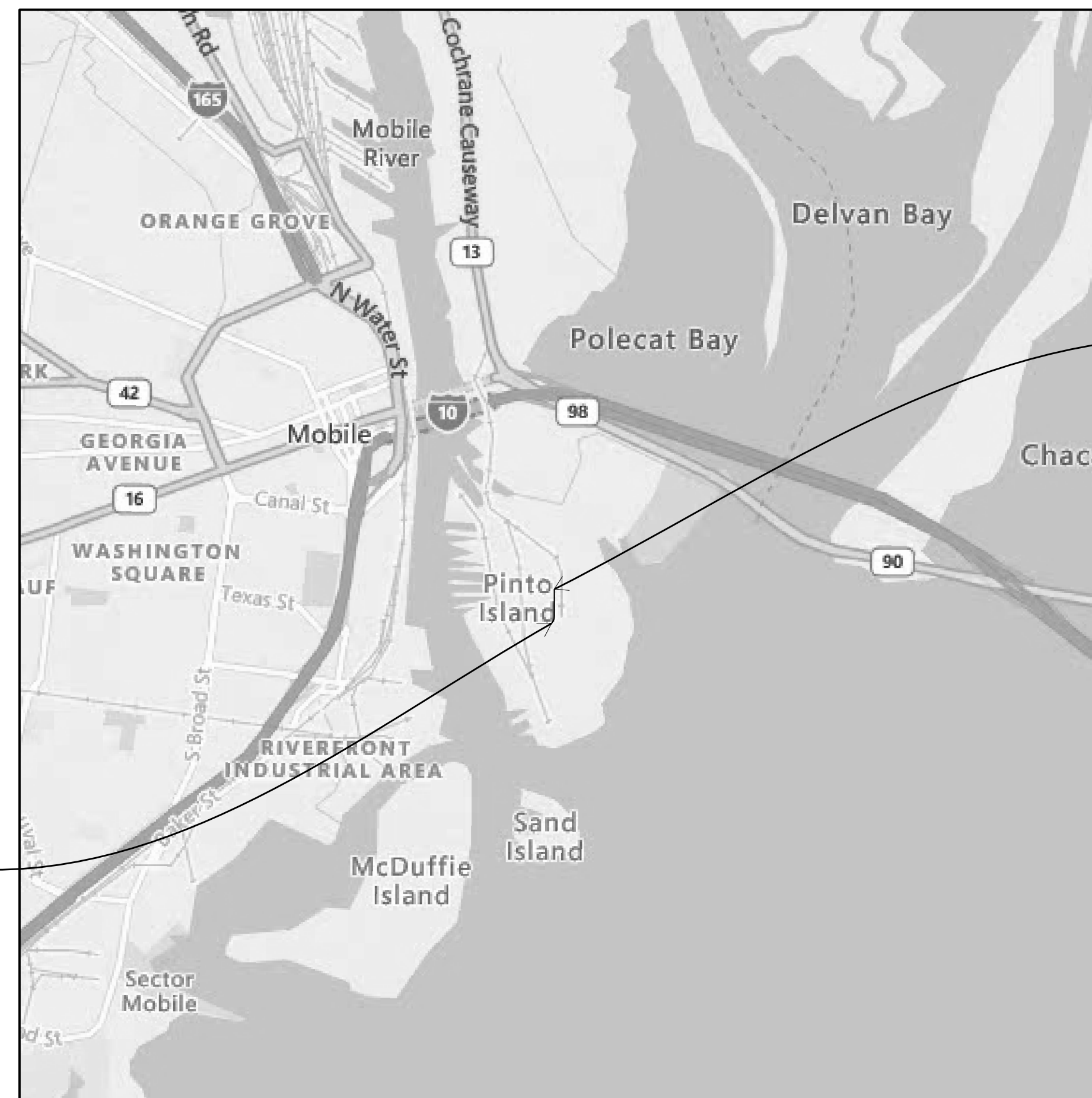
100% SUBMITTAL

MOBILE COUNTY

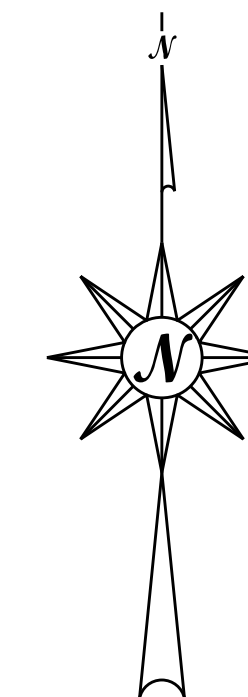
STATE	REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO	LAST SHEET NO
AL	11183.1	2023	1	8

These plans have been prepared to conform with the Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition.

BEGIN PROJECT
STA 10+00.00

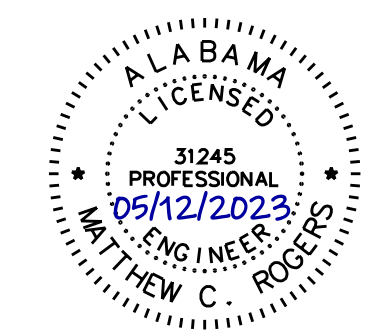


END PROJECT
STA 18+60.00



Matthew C. Rogers

ENGINEER:
MATTHEW C. ROGERS, P.E.



thompson
ENGINEERING

2970 COTTAGE HILL ROAD
SUITE 190
MOBILE, AL 36606

INDEX TO SHEETS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	1-A

SHEET NO	DESCRIPTION
1	TITLE SHEET
1-A	INDEX TO SHEETS
1-B	INDEX TO SPECIAL AND STANDARD DRAWINGS
1-C	PLANS LEGEND SHEET
1-D	PLANS LEGEND SHEET ABBREVIATIONS
1-E	SUMMARY OF QUANTITIES
2	TYPICAL SECTIONS
3	PROJECT NOTES
4	PLAN & PROFILE SHEET
5	TRAFFIC & EROSION CONTROL NOTES
5A	EROSION AND SEDIMENT CONTROL LEGEND SHEET
5B	TRAFFIC & EROSION CONTROL PLAN
6	DRAINAGE SECTIONS
7	MISCELLANEOUS DETAILS
8	SPECIAL PROJECT DETAIL - DETAILS FOR TRAFFIC CONTROL FOR TWO LANE HIGHWAYS

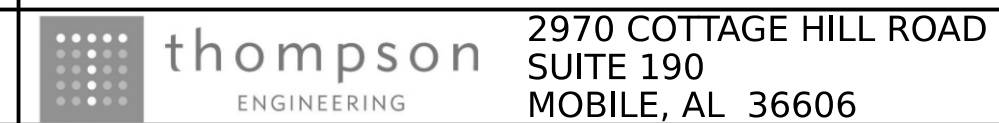


REVISIONS:

PLAN SUBMITTAL

100%

PLANS PREPARED BY:



NOT TO SCALE

SHEET TITLE

INDEX TO SHEETS

ROUTE

DUNLAP DRIVE

INDEX TO SPECIAL & STANDARD DRAWINGS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	1-B

THE FOLLOWING ARE SPECIAL OR STANDARD DRAWINGS CONTAINED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL & STANDARD HIGHWAY DRAWING BOOK (U.S. CUSTOMARY UNITS OF MEASUREMENT) DATED 2022, WHICH APPLY TO THIS PROJECT.

53004	RPC-530 (SHEET 1 OF 3)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (RCP AND CMP)
53005	RPC-530 (SHEET 2 OF 3)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (CMP AND RCP)
61909	HW-614-B (SHEET 1 OF 2)	SLOPE PAVED HEADWALL DETAILS FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE
61910	HW-614-B (SHEET 2 OF 2)	SLOPE PAVED HEADWALL DETAILS FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE
66505	ESC-200-1	TYPICAL TEMPORARY EROSION / SEDIMENT CONTROL APPLICATIONS
66507	ESC-200-3	DETAILS OF SEDIMENT BARRIER APPLICATIONS
66508	ESC-200-4	DETAILS OF SILT FENCE INSTALLATION
74007	TCD-100	DETAILS FOR TRAFFIC CHANNELIZATION DEVICES

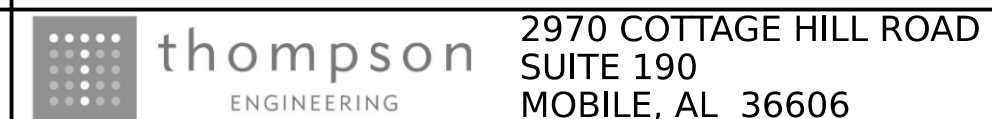


REVISIONS:

PLAN SUBMITTAL

100%

PLANS PREPARED BY:



NOT TO SCALE

SHEET TITLE

INDEX TO SPECIAL & STANDARD DRAWINGS

ROUTE

DUNLAP DRIVE

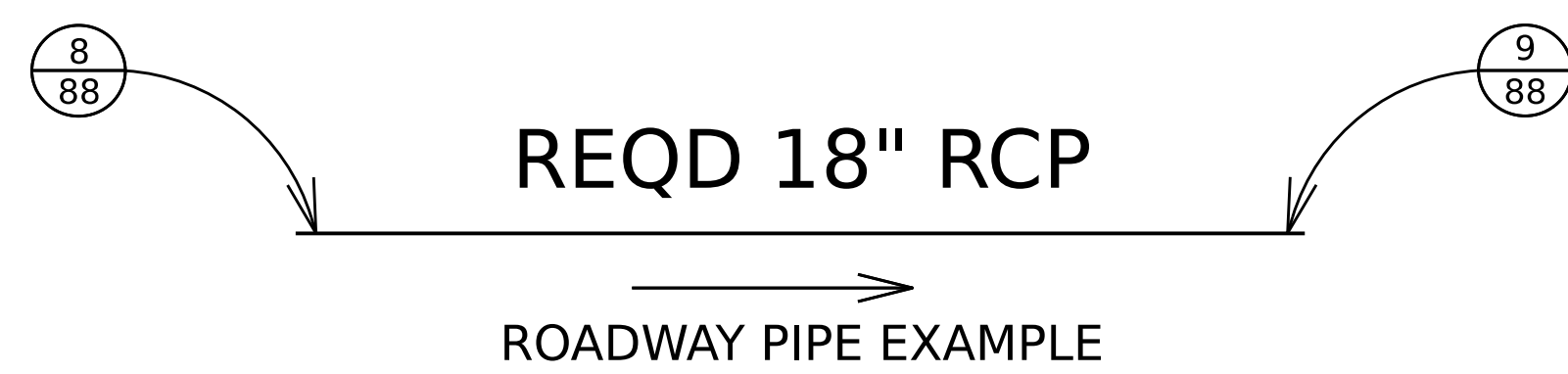
PLANS LEGEND SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	1-C

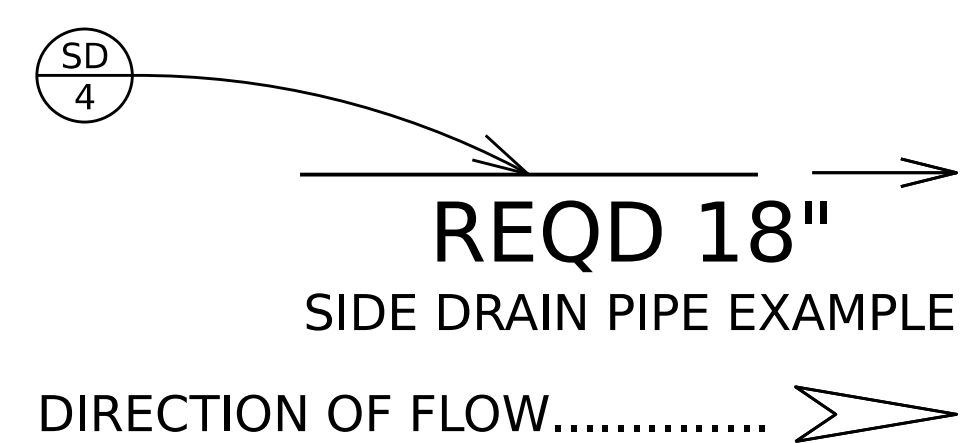
CENTER LINE.....		55+00
STATE BOUNDARY LINE.....		
COUNTY BOUNDARY LINE.....		
CITY OR TOWN LIMITS.....		
SECTION LINES.....		SEC 22 SEC 23
QUARTER-SECTION LINES.....		
RANGE-TOWNSHIP LINES.....		R-17-E R-18-E
PROPERTY LINES.....		PL
PRESENT ROW.....		
ACQUIRED ROW.....		
DENIED ACCESS.....		
REQUIRED FENCE.....		CONST LIM
CONSTRUCTION LIMITS.....		
CLEARING LIMITS.....		
RAILROAD.....		
EXISTING WOOD FENCE.....		
EXISTING BARBED WIRE FENCE.....		
EXISTING CHAIN LINK FENCE.....		
EXISTING ELECTRIC FENCE.....		e e e
EXISTING HOG WIRE FENCE.....		
TREES.....		
WOODS LINE.....		
MARSH.....		
EXISTING DITCH.....		
REQUIRED DITCH.....		
GRAVEL ROAD.....		
EXISTING GUARDRAIL.....		
REQUIRED GUARDRAIL.....		
SATELLITE DISH.....		
TRAFFIC LIGHT.....		
BENCH MARK.....		
SURVEY POINT.....		
ENVIRONMENTAL CLEARED LIMITS.....		ENV

EXISTING PIPE.....	
REQUIRED PIPE (WITH PIPE END TREATMENT).....	
REQUIRED PIPE END TREATMENT.....	
EXISTING BOX CULVERT.....	
REQUIRED BOX CULVERT.....	
EXTENDED CULVERT.....	
DROP INLET OR JUNCTION BOX (SEE PLANS DESCRIPTION).....	
BRIDGE.....	
PIPE CULVERT (ELEVATION VIEW).....	 FL=410.25
BOX CULVERT (ELEVATION VIEW).....	 FL=420.55

DRAINAGE STRUCTURE INDEX NUMBERS
 DRAINAGE STRUCTURE WRITE-UPS ARE LOCATED ON THE DRAINAGE CROSS-SECTION SHEETS. STRUCTURES WITH WRITE-UPS ARE INDEXED AT EACH END, WITH NUMBERS ASSIGNED BY DIRECTION OF FLOW. THE NUMBER IN THE UPPER HALF OF THE CIRCLE (EXAMPLE 8 OR 9) IS THE DRAWING STRUCTURE INDEX NUMBER. THE NUMBER IN THE LOWER HALF (EXAMPLE 88) IS THE SHEET REFERENCE NUMBER.



ALL INFORMATION CONCERNING THE DISPOSITION OF SIDE DRAIN PIPE IS SHOWN ON THE SUMMARY OF QUANTITIES BOX SHEET. THE TOP LETTERS (SD) ARE FOR SIDE DRAIN AND THE BOTTOM NUMBER IS THE DRAINAGE STRUCTURE INDEX NUMBER.



	EXISTING	PROPOSED
POWER POLE.....		
LIGHT POLE.....		
TELEPHONE POLE.....		
ANCHOR.....		
STUB (POWER).....		
STUB (TELEPHONE).....		
ELECTRIC DUCT.....	==== EL 4MTD =====	==== EL 4MTD =====
BURIED ELECTRIC CABLE.....	-- BE -- -- BE --	— BE — — BE —
OVERHEAD ELECTRIC CABLE.....	-- OE -- -- OE --	— OE — — OE —
ELECTRIC MANHOLE.....	== (ELEC) ==	== (ELEC) ==
TOWER.....		
TELEPHONE PEDESTAL.....		
TELEPHONE DUCT.....	==== TP 4MTD =====	==== TP 4MTD =====
BURIED TELEPHONE CABLE.....	-- BTC -- -- BTC --	— BTC — — BTC —
OVERHEAD TELEPHONE CABLE.....	-- OTC -- -- OTC --	— OTC — — OTC —
TELEPHONE MANHOLE.....	== (TEL) ==	== (TEL) ==
SANITARY SEWER.....	-- S -- -- S --	— SS — — SS —
WATER LINE.....	-- W -- -- W --	— W — — W —
WATER MAIN.....	-- WM -- -- WM --	— WM — — WM —
WATER VALVE.....		
FIRE HYDRANT.....		
WATER METER.....		
GAS LINE.....	-- G -- -- G --	— G — — G —
GAS MAIN.....	-- GM -- -- GM --	— GM — — GM —
GAS VALVE.....		
GAS REGULATOR.....		
BURIED CABLE TELEVISION.....	-- BTV -- -- BTV --	— BTV — — BTV —
OVERHEAD CABLE TELEVISION.....	-- OTV -- -- OTV --	— OTV — — OTV —

EXISTING PAVEMENT (RETAIN).....	
EXISTING PAVEMENT (REMOVE).....	
EXISTING PAVEMENT (RETAIN AND OVERLAY).....	
CONCRETE (EXISTING OR REQUIRED).....	
EXISTING CONCRETE (REMOVE).....	
RIP RAP (EXISTING OR REQUIRED).....	

PLANS LEGEND SHEET ABBREVIATIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	1-D

ABANDON(ED).....	ABAN	DIAMETER.....	DIA	ISLAND.....	ISL	PROJECT.....	PROJ
ABUTMENT.....	ABUT	DIRECTION.....	DIR	JOINT.....	JT	PROJECT CONTROL.....	PJC
ACCELERATION.....	ACCL	DISTANCE.....	DIST	JUNCTION.....	JCT	PROPERTY LINE.....	PL
ACQUIRED.....	ACQD	DOUBLE.....	DBL	JUNCTION BOX.....	JB	PROPOSED.....	PROP
ACRE.....	AC	DOUBLE BARREL CULVERT.....	CD	KILOMETER.....	KM	QUADRUPLE.....	QUAD
AHEAD.....	AH	DRAINAGE AREA.....	DA	KILOMETER POST.....	KMP	QUADRUPLE BARREL CULVERT.....	CQ
ALABAMA.....	AL	DRIVE.....	DR	KILOMETERS PER HOUR.....	KPH	QUANTITY.....	QUANT
ALABAMA DEPARTMENT OF TRANSPORTATION.....	ALDOT	DROP INLET.....	DI	LANE.....	LN	RADIUS.....	R
ALTERNATE.....	ALT	EACH.....	EA	LATITUDE.....	LAT	RAILROAD.....	RR
APPROXIMATE(LY).....	APP	EASEMENT.....	ESMT	LEFT.....	LT	RANGE.....	RGE
AREA.....	A	EAST.....	E	LEFT AHEAD.....	LAT	RECORD.....	REC
ASPHALT.....	ASP	EAST BOUND ROADWAY.....	EBR	LEFT BACK.....	LB	REDUCTION.....	RED
AVERAGE ANNUAL DAILY TRAFFIC.....	AADT	EDGE OF PAVEMENT.....	EP	LENGTH OF CURVE.....	L	REFERENCE.....	REF
BACK.....	BK	ELEVATION.....	EL or ELEV	LINK.....	LK	REFERENCE POINT.....	RP
BACK OF GUARDRAIL.....	BK-GR	END OF RETURN.....	ER	LIMIT.....	LIM	REFERENCE POINT FOR POINT ON TANGENT.....	RPPOT
BACKSIGHT.....	BS	END ANCHOR.....	E/A	LINEAR.....	LIN	REINFORCED.....	REINF
BARBED WIRE.....	B/W	END OF PROJECT.....	EOP	LINEAR FEET.....	LIN FT	REINFORCED CONCRETE.....	RC
BARREL.....	BBL	EQUATION.....	EQ	LONGITUDE.....	LONG	REINFORCED CONCRETE DECK GIRDER.....	RCDG
BARRIER.....	BAR	EROSION CONTROL PRODUCTS.....	ECP	MANHOLE.....	MH	REINGORCED CONCRETE PIPE.....	RCP
BASE LINE.....	BL	EXCAVATION.....	EXCAV	MARKER.....	MRK	REINFORCING STEEL.....	REINF STL
BEARING.....	BRNG	EXISTING.....	EX	MAXIMUM.....	MAX	RELOCATE.....	RELC
BEGIN.....	BEG	EXPANSION.....	EXP	MEAN HIGH WATER.....	MHW	REMOVE.....	REM
BEGINNING OF PROJECT.....	BOP	EXTENSION.....	EXT	MEAN LOW WATER.....	MLW	REQUIRED.....	REQD
BETWEEN.....	BTW	EXTERNAL.....	E	MEASUREMENT.....	MEAS	RETAIN(ING).....	RET
BILLBOARD.....	BBD	EXTRA STRENGTH.....	EXT STR	MEDIAN.....	MED	REVERSE CROWN.....	RC
BENCH MARK.....	BM	FEET.....	FT	METER.....	M	REVISION.....	REV
BITUMINOUS.....	BIT	FILL.....	F	MERIDIAN.....	MER	RIGHT.....	RT
BITUMINOUS COATED CORRUGATED METAL PIPE.....	BCCMP	FILTER BLANKET.....	FLT BLNK	MILE POST.....	MP	RIGHT AHEAD.....	RA
BOUNDARY.....	BDY	FINISHED GRADE.....	FG	MILES.....	MI	RIGHT BACK.....	RB
BRIDGE.....	BRG	FINISHED SURFACE.....	FS	MILES PER HOUR.....	MPH	RIGHT OF WAY.....	ROW
BRIDGE END SLAB.....	BES	FISCAL YEAR.....	FY	MILLIMETER.....	MM	RIGHT OF WAY MARKER.....	ROWM
CAPACITY.....	CAPY	FIXED.....	FIX	MINIMUM.....	MIN	RIVER.....	RIV
CAST IRON.....	CI	FLAT BOTTOM.....	FB	MONUMENT.....	MON	ROAD.....	RD
CAST IN PLACE.....	CIP	FLOW LINE.....	FL	MULTIPLE.....	MULT	ROADWAY.....	RDWY
CATCH BASIN.....	CB	FORESIGHT OR FRONTSIGHT.....	FST	NORMAL.....	NORM	SECTION.....	SEC
CENTERLINE.....	CL	FRACTIONAL.....	FRAC	NORMAL CROWN.....	NC	SERVICE ROAD.....	SER RD
CHAIN LINK.....	C/L	FULL SUPERELEVATION.....	FS	NORMAL CROWN SLOPE.....	NCS	SHEET.....	SHT
CLASS.....	CLS	GALLON.....	GAL	NORTH.....	N	SHEET PILING.....	SHT PILE
CONCRETE.....	CONC	GASOLINE PUMPS.....	GPP	NORTH BOUND ROADWAY.....	NBR	SHOULDER.....	SHLD
CONNECTION.....	CONN	GARAGE.....	GAR	NORTHING-EASTING.....	NE	SIDE DRAIN.....	SD
CONSTRUCTION LIMITS.....	CONST LIM	GAUGE.....	GA	NOT IN CONTRACT.....	NIC	SIDEWALK.....	SW
CORNER.....	COR	GIRDER.....	GDR	NOT TO SCALE.....	NTS	SIGHT DISTANCE.....	S DIST
CORRECTION.....	CORR	GOVERNMENT.....	GOV	NUMBER.....	NORM	SINGLE BARREL CULVERT.....	CS
CORRUGATED IRON.....	CORI	GRASS.....	GRS	OBSERVATION.....	OBS	SKEW.....	SK
CORRUGATED METAL.....	CM	GRADE CHANGE.....	GC	ON CENTER.....	OC	SLOPE STAKE.....	SST
CORRUGATED METAL PIPE.....	CMP	GRADE POINT.....	GPP	ORIGINAL.....	ORIG	SOLID SODDING.....	SOL SOD
CORRUGATED PLASTIC PIPE.....	CPP	GRADE ROD.....	GRD	OVERHEAD.....	OHD	SOUTH.....	S
COUNTY.....	CO	GRAVEL.....	GRV	OVERHAUL.....	OHD	SOUTHBOUND ROADWAY.....	SBR
COUNTY ROAD.....	CO-RD	GUARDRAIL.....	GR	OUT TO OUT.....	OO	SPECIAL.....	SP
CREEK.....	CK	HEADWALL.....	HDWL	PAINT.....	PNT	SPECIAL DITCH.....	SP-DT
CROSS SECTION.....	X-SECT	HECTARE.....	HA	PAVED.....	PVD	SPECIAL DITCH LEFT.....	SDL
CROWN REMOVED.....	CR	HIGH WATER MARK.....	HWM	PAVED SHOULDER.....	PVD SH	SPECIAL DITCH MEDIUM.....	SDM
CUBIC FEET.....	FT3 or CU FT	HEIGHT.....	HT	PAVEMENT.....	PVMT	SPECIAL DITCH RIGHT.....	SDR
CUBIC FEET PER SECOND.....	CFS	HEIGHT OF INSTRUMENT.....	HI	PIPE END TREATMENT.....	PET	SPECIAL DRAWING.....	SP-DWG
CUBIC YARD.....	YD3 or CU YD	HIGH WATER.....	HW	PIPE ENTERING CULVERT.....	PEC	SPECIFICATIONS.....	SPEC
CUBIC METERS.....	M3	HIGHWAY.....	HWY	PLATE GIRDER.....	PL DGR	SPRING LINE.....	SL
CULVERT.....	CULV	HOGWIRE.....	H/W	POINT OF BEGINNING.....	POB	SPIRAL TO CURVE.....	SC
CULTIVATED.....	CULT	HORIZONTAL.....	HOR	POINT OF COMPOUND CURVE.....	PCC	SPIRAL POINT OF INTERSECTION.....	SPI
CURB FACE.....	CF	HUB & TACK.....	H&T	POINT OF CURVATURE.....	PCC	SPIRAL TO TANGENT.....	ST
CURB AND GUTTER.....	C&G	HYDRANT.....	HYD	POINT OF REVERSE CURVATURE.....	PRC	SQUARE.....	SQ
CUT.....	C	IMPACT ATTENUATOR.....	IA	POINT OF ENDING.....	POE	SQUARE FEET.....	FT2 or SQ FT
CURVE TO SPIRAL.....	CS	IN ACCORDANCE WITH.....	I/A/W	POINT OF INTERSECTION.....	PI	SQUARE METERS.....	M2
DECELERATION.....	DECEL	IN PLACE.....	IN-PL	POINT OF TANGENCY.....	PT	SQUARE YARDS.....	YD2 or SQ YD
DECLINATION.....	DECL	INCHES.....	IN-PL	POINT ON CURVE.....	POC	STAKE.....	STK
DEGREE OF CURVE.....	D	INCLUDING.....	INCL	POUND.....	LB	STANDARD.....	STD
DENIED ACCESS.....	D/A	INCORPORATED.....	INCL	PRESENT.....	PRES	STANDARD DRAWING.....	STD-DWG
DEPARTURE.....	DEP	INSTRUMENT.....	INST	PROFILE GRADE.....	PG	STANDARD STRENGTH.....	STD STR

STRUCTURES

NUMBER OF STORIES.....	1, 2, 3, 4
FRAME.....	FR
BUILDING.....	BLDG
BLOCK.....	BLK
BRICK.....	BR
STUCCO.....	STU
METAL.....	MET
RESIDENCE.....	RES
BUSINESS.....	BUS
WAREHOUSE.....	WHSE
CHICKEN HOUSE.....	CH HSE
CHURCH.....	CH
SCHOOL.....	SCH
DOUBLE WIDE MOBILE HOME.....	DW MH
MOBILE HOME.....	MH

UTILITIES

ANCHOR WIRE.....	AW
BURIED ELECTRIC.....	BE
BURIED FIBER OPTIC.....	BFO
BURIED TELEPHONE CABLE.....	BTC
BURIED CABLE TELEVISION.....	BTV
CAST IRON.....	CI
CIRCUIT.....	CKT
BUCTILE IRON.....	BUC IRON
EASEMENT.....	ESMT
FIBER OPTIC.....	FO
FIRE HYDRANT.....	FH
FORCED MAIN (SANITARY SEWER).....	FM
GAS MAIN.....	GM
GAS METER.....	GMET
GAS VALVE.....	GV
GUY WIRE.....	GUY
HIGH PRESSURE.....	HP
KILOVOLT AMPS.....	KVA
MANHOLE.....	MH
MERCURY VAPOR LIGHT.....	MVL
OVERHEAD FIBER OPTIC.....	OFO
OVERHEAD TELEPHONE CABLE.....	OTC
OVERHEAD ELECTRIC CABLE.....	OE
OVERHEAD CABLE TELEVISION.....	OTV
PAIR.....	PR
PEDESTAL.....	PED
POLY-VINYL CHLORIDE PIPE.....	PVC
POWER POLE.....	PP
SANITARY SEWER.....	SS
SERVICE.....	SERV
STEEL.....	STL
STORM DRAIN.....	STM
STORM SEWER.....	STMS
SWITCH.....	SW
TELEPHONE.....	TEL
TELEPHONE MANHOLE.....	TMH
TRANSFORMER.....	TRAN
TRANSMISSION LINE.....	TR LN
TRIAIXIAL CABLE (SERVICE).....	TRIX
VITRIFIED CLAY PIPE.....	VCP
WATER MAIN.....	WM
WATER METER.....	WMET
WATER VALVE.....	WV

PROPERTY

DEED BOOK.....	DB
REAL PROPERTY BOOK.....	RP
PLAT BOOK.....	PB
MAP BOOK.....	MB
PAGE.....	PG
OFFICIAL RECORD.....	OR
CAPPED (TYPICAL PLASTIC SURVEYORS CAP).....	CAP
ALUMINUM CAP.....	ALUM CAP
BRASS CAP.....	BR CAP
IRON PIPE.....	IP
CRIMPED.....	CR
REINFORCING STEEL.....	REBAR
CONCRETE MONUMENT.....	CM
DAMAGED.....	DAM
CHISELED X.....	CH"X"
HUB AND TACK.....	H&T
HAIL AND BOTTLE TOP.....	H&BT
PARKER-KALON (MASONARY NAILS).....	PK NAIL
FENCE POST.....	F-POST
RAILROAD IRON.....	RR IRON
COTTON SPINDLE.....	COT SP
ANGLE IRON.....	ANGLE IRON

SUMMARY OF QUANTITIES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	1-E

BASE BID			
ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL PLAN QUANTITY
201A002	Clearing And Grubbing (Maximum Allowable Bid \$5,000 Per Acre) (Approx. 0.25 Acres)	Lump Sum	1
206C023	Removing Riprap	Square Yard	30
206D000	Removing Pipe	Linear Foot	66
210A000	Unclassified Excavation	Cubic Yard	200
210D022	Borrow Excavation (Loose Truckbed Measurement)(A-2-4(0) or A-4(0)	Cubic Yard	75
214A000	Structure Excavation	Cubic Yard	17
214B001	Foundation Backfill, Commercial	Cubic Yard	26
230A000	Roadbed Processing	Roadbed Station	9
401A000	Bituminous Treatment A	Square Yard	2200
408A053	Planing Existing Pavement (Approximately 2.10" Thru 3.0" Thick)	Square Yard	2200
424A361	Superpave Bituminous Concrete Wearing Surface Layer, 3/4" Maximum Aggregate Size Mix, ESAL Range C/D (220 LB/SY)	Ton	260
530A028	48" Roadway Pipe (Class 5 R.C.)	Linear Foot	60
600A000	Mobilization	Lump Sum	1
614B000	Reinforced Slope Paving	Cubic Yard	5
619A057	48" Roadway Pipe End Treatment, Class 2	Each	2
650A000	Topsoil	Cubic Yard	90
652A100	Seeding	Acre	1
652C000	Mowing	Acre	1
654A001	Solid Sodding (Bermuda)	Square Yard	300
656A010	Mulching	Acre	1
665J002	Silt Fence	Linear Foot	1685
665O001	Silt Fence Removal	Linear Foot	1685
680A001	Geometric Controls	Lump Sum	1
740A000	Traffic Control Scheme	Lump Sum	1

ADDITIVE ALTERNATE NO. 1			
ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL PLAN QUANTITY
405A000	Tack Coat	Gallon	110
424B650	Superpave Bituminous Concrete Upper Binder Layer, 3/4" Maximum Aggregate Size Mix, ESAL Range C/D (220 LB/SY)	Ton	250



REVISIONS:

PLAN
SUBMITTAL

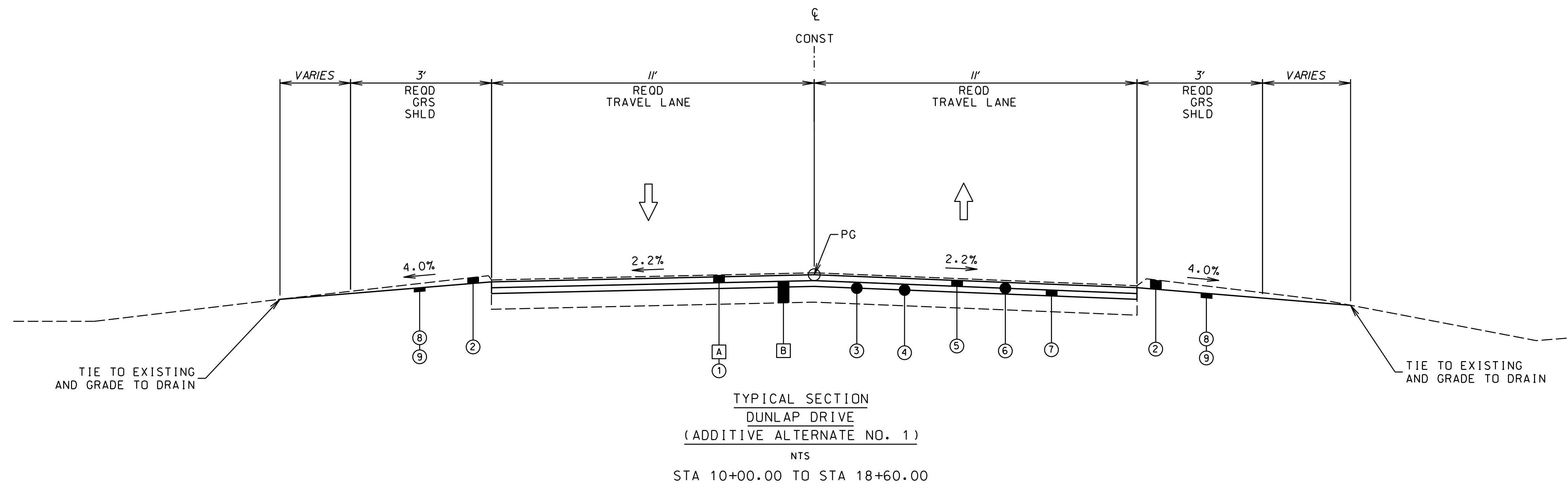
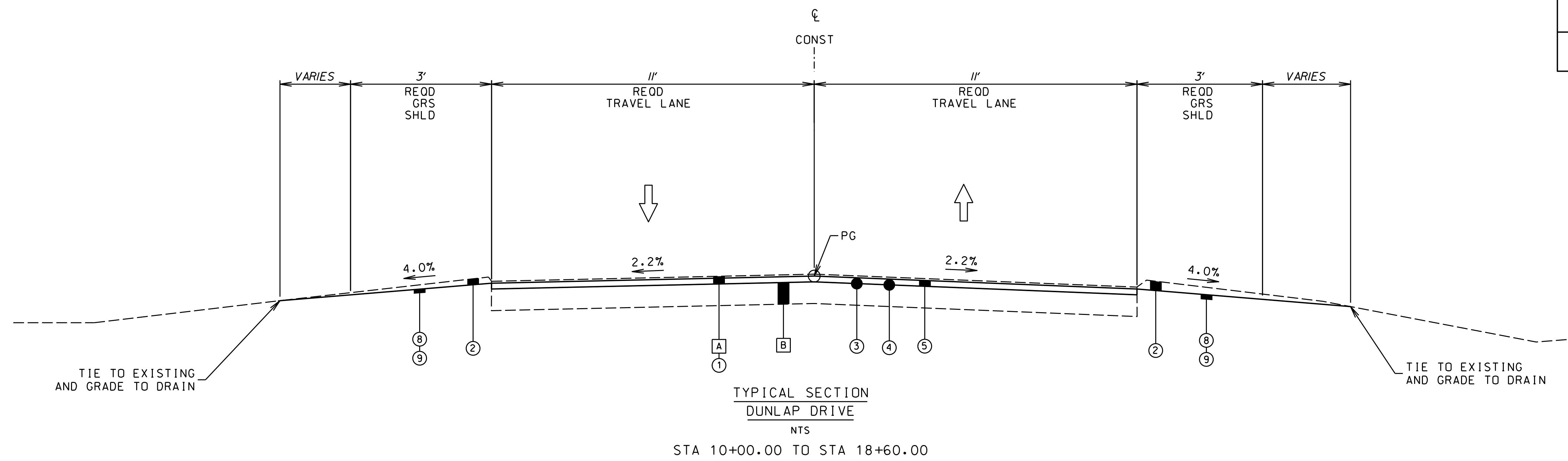
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PLANS PREPARED BY:
 2970 COTTAGE HILL ROAD
SUITE 190
MOBILE, AL 36606

NOT TO SCALE

SHEET TITLE
SUMMARY OF QUANTITIES

ROUTE
DUNLAP DRIVE



EXISTING MATERIALS LEGEND	
A	IN PLACE: BITUMINOUS PAVEMENT (REMOVE)
B	IN PLACE: BASE MATERIAL (RETAIN AND COMPACT)
REQUIRED MATERIALS LEGEND	
1	REQD: (408C-053) PLANING EXISTING PAVEMENT (APPROXIMATELY 2.10" THRU 3.0" THICK)
2	REQD: (210A-000) UNCLASSIFIED EXCAVATION
3	REQD: (230A-000) ROADBED PROCESSING
4	REQD: (401A-000) BITUMINOUS TREATMENT A
5	REQD: (424A-361) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (220 LB/SY)
6	REQD: (405A-000) TACK COAT (0.05 GAL/SY)
7	REQD: (424B-650) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (220 LB/SY)
8	REQD: (650A-000) TOPSOIL (4" THICK)
9	REQD: (654A-000) SOLID SODDING (BERMUDA)

PROJECT NOTES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	3

GENERAL CONSTRUCTION NOTES:

- STANDARD SPECIFICATIONS FOR STREETS AND DRAINAGE: REFERENCE IS MADE TO THE ALABAMA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2022 EDITION. ALL PROVISIONS OF SAID STANDARD SPECIFICATIONS SHALL APPLY TO THIS CONTRACT AND ARE HEREBY MADE A PART OF THIS CONTRACT, EXCEPT WHEN THE PROVISIONS HEREON OR THE PLANS ARE CLEARLY IN CONFLICT WITH THE PROVISIONS OF SAID STANDARD SPECIFICATIONS, THE PROVISIONS HEREON AND THE PLANS SHALL GOVERN.
- THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO CONSTRUCTION OR FABRICATION.
- THE CONTRACTOR SHALL OBTAIN THE PERMISSION AND APPROVAL FOR ALL PROPOSED SUBCONTRACTORS AND SHALL BE RESPONSIBLE FOR ALL PHASES OF THE PROJECT INCLUDING THE SUBCONTRACTORS' WORK.
- WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS.
- ALL UNPAVED AREAS THAT HAVE BEEN GRADED, CUT, OR FILLED SHALL BE TREATED WITH A SUITABLE COMMERCIAL FERTILIZER IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION 2022 STANDARD SPECIFICATIONS, AND SEEDED WITH A MIXTURE TO SUIT THE PLANTING ZONE (652.03) AND DATE OF PLANTING (860.01) PER ALABAMA DEPARTMENT OF TRANSPORTATION 2022 STANDARD SPECIFICATIONS. A FIRM STAND OF PERMANENT GRASS WILL BE REQUIRED.
- ALL CONCRETE USED ON THE PROJECT SHALL BE 4,000 PSI MINIMUM COMPRESSIVE STRENGTH REQUIRED IN 28 DAYS, UNLESS SPECIFICATIONS REQUIRE CONCRETE OF GREATER STRENGTH.
- UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (811) (WWW.AL811.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY AND/OR PHYSICALLY LOCATED BY THE CONTRACTOR.
- THE WORD OF THE ENGINEER AND/OR INSPECTOR SHALL BE FINAL IN ANY MATTER.
- SUB-GRADE AND BASE SHALL BE COMPACTED TO THE REQUIREMENTS OF ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- ALL FILL AND EMBANKMENT CONSTRUCTION SHALL BE COMPACTED AS REQUIRED IN LAYERS NOT TO EXCEED 8".
- ALL EXCESS UNCLASSIFIED EXCAVATION IS TO BE UTILIZED FOR CONSTRUCTION OF EMBANKMENTS AND SLOPES NOT DIRECTLY UNDER THE TRAVEL WAY OR PARKING AREAS PRIOR TO USING ANY OFFSITE BORROW EXCAVATION. AFTER CONSTRUCTION OF SUCH AREAS IS COMPLETED, EXCESS EXCAVATION SHALL BE SPREAD AS DIRECTED BY THE ENGINEER, OR AT THE ENGINEER'S DIRECTION, HAULED FROM THE SITE AT NO ADDITIONAL PAYMENT.
- ALL SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND FULLY FUNCTIONING PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ACTIVITY.
- ALL SLOPES MUST BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EXCESSIVE EROSION.
- ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.
- CONTRACTOR IS REQUIRED TO USE "BEST MANAGEMENT PRACTICES" COMPLIANT WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS", ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, MONTGOMERY, ALABAMA, VOLUMES 1 & 2, 2022 EDITION, TO PREVENT SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE.
- ALL MATERIALS AND WORKMANSHIP WITHIN A STATE, CITY, OR COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2022 EDITION.
- CONTRACTOR SHALL COORDINATE SITE ACCESS WITH PROPERTY OWNER(S).
- FILTER BLANKET USED WITH RIPRAP SHALL BE A NON-WOVEN GEOTEXTILE TYPE GEOTEX 801 OR ENGINEER APPROVED EQUIVALENT.
- ALL PIPE END TREATMENTS SHALL INCLUDE A TOE WALL AT LEAST 1.5 FEET DEEP AND 8 INCHES THICK UNLESS CONNECTED TO A CONCRETE DITCH SECTION OR A BEVELED END SECTION IS SPECIFIED IN ACCORDANCE WITH THE ALDOT STANDARD DRAWING.
- THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE TESTING LABORATORY OF HIS WORKING SCHEDULE IN ORDER THAT THE PROPER SAMPLE MAY BE OBTAINED AND TEST MADE.
- ALL REINFORCED CONCRETE PIPE USED ON THE PROJECT SHALL BE CLASS 5 OR GREATER.
- ALL PIPE JOINTS MUST BE WRAPPED IN ACCORDANCE WITH DETAIL ON SHEET 7.
- REMOVAL OF 12" VERTICAL PIPE SHOWN AT STA 14+42 RT SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF 206D-000. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVAL OF THIS PIPE.



REVISIONS:

PLAN SUBMITTAL

100%

PLANS PREPARED BY:



NOT TO SCALE

SHEET TITLE

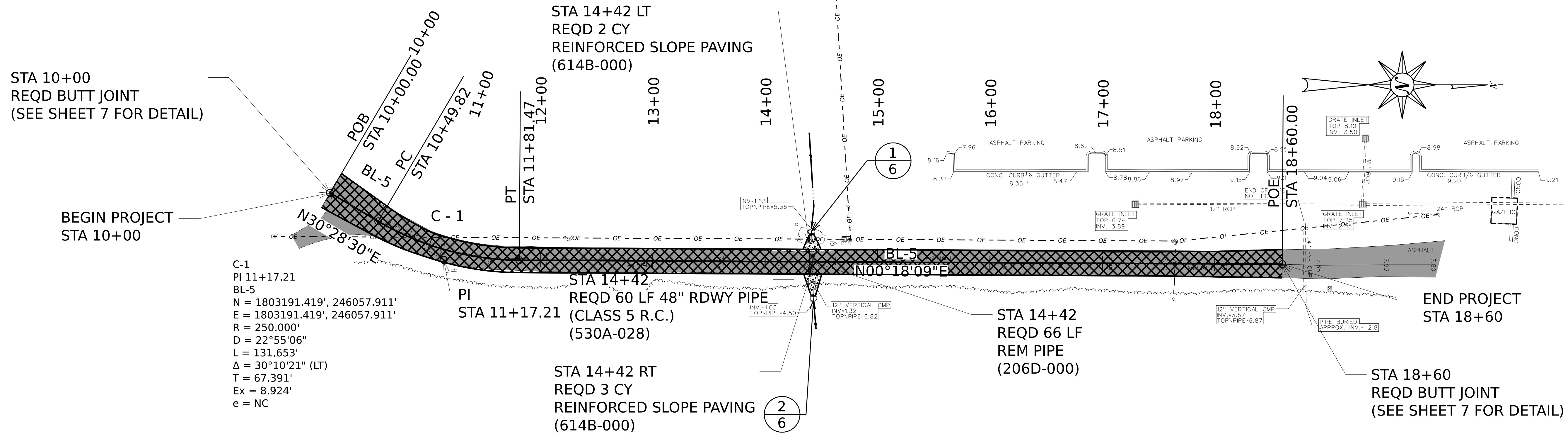
PROJECT NOTES

ROUTE

DUNLAP DRIVE

PLAN & PROFILE SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	4

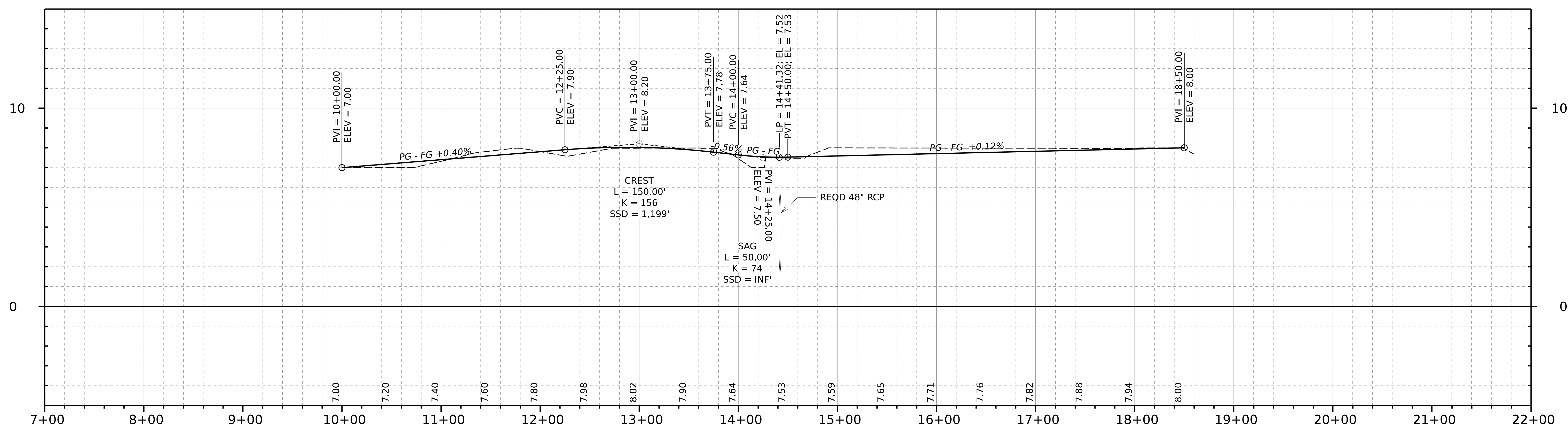


C-1
 PI 11+17.21
 BL-5
 N = 1803191.419', 246057.911'
 E = 1803191.419', 246057.911'
 R = 250.000'
 D = 22°55'06"
 L = 131.653'
 Δ = 30°10'21" (LT)
 T = 67.391'
 Ex = 8.924'
 e = NC

STA 14+42
 REQD 60 LF 48" RDWY PIPE
 (CLASS 5 R.C.)
 (530A-028)

STA 14+42
 REQD 66 LF
 REM PIPE
 (206D-000)

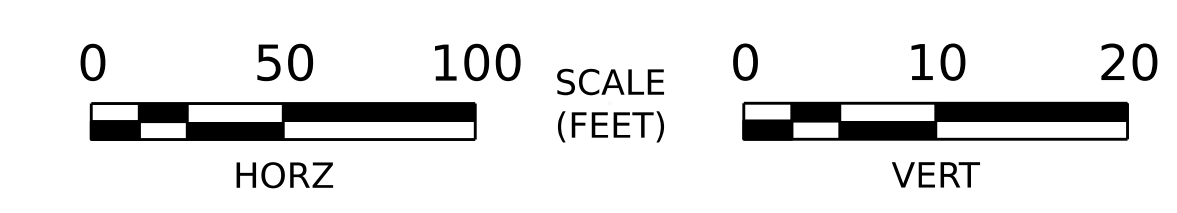
END PROJECT
 STA 18+60
 STA 18+60
 REQD BUTT JOINT
 (SEE SHEET 7 FOR DETAIL)



REVISIONS:

PLAN SUBMITTAL
 100%

PLANS PREPARED BY:
 2970 COTTAGE HILL ROAD
 SUITE 190
 MOBILE, AL 36606



SHEET TITLE
 PLAN & PROFILE SHEET

ROUTE
 DUNLAP DRIVE

TRAFFIC & EROSION CONTROL NOTES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	5

TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRICT COMPLIANCE WITH PART VI OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND SHALL DEFEND THE ENGINEER AND THE ALABAMA STATE PORT AUTHORITY AGAINST ALL LIABILITY, CLAIM OF LIABILITY, LOSS, COST OR DAMAGE, INCLUDING DEATH, AND LOSS OF SERVICES, ON ACCOUNT OF INJURY TO PERSONS OR PROPERTY, OCCURRING FROM ANY CAUSE WHATSOEVER, AS A RESULT OF CONSTRUCTION ACTIVITY INVOLVED IN THIS PROJECT. THE CONTRACTOR WILL, AT HIS EXPENSE, DEFEND ON BEHALF OF THE ENGINEER, ALABAMA STATE PORT AUTHORITY AND THEIR OFFICERS AND EMPLOYEES, ALL SUITS BROUGHT AGAINST THEM OR ANY OF THEM, ARISING FROM ANY SUCH CAUSE.
2. THE CONTRACTOR SHALL HAVE AVAILABLE ADEQUATE PERSONNEL AND EQUIPMENT FOR TRAFFIC CONTROL AND SHALL NOT PERFORM ANY WORK WHEN ADEQUATE PERSONNEL AND EQUIPMENT ARE NOT AVAILABLE.
3. TRAFFIC CONTROL DEVICES SHOWN ARE CONSIDERED TO BE THE MINIMUM REQUIRED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADDITIONAL TRAFFIC CONTROL DEVICES OTHER THAN THOSE SHOWN WHEN ROADWAY AND TRAFFIC CONDITIONS WARRANT.
4. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED AT THE COMPLETION OF THE WORK WHEN THE WORK AREA IS OPENED TO TRAFFIC.
5. ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED.
6. A REFLECTORIZED DRUM SHALL BE PLACED IN FRONT OF EACH CONSTRUCTION SIGN THAT IS STORED ON THE SHOULDER AT ANY TIME DURING THE COURSE OF THE PROJECT, INCLUDING BUT NOT LIMITED TO COVERED SIGNS AND TEMPORARY MOUNTED SIGNS THAT HAVE BEEN LAID OVER.
7. ALL VEHICLES, EQUIPMENT, AND WORKERS (EXCLUDING FLAGGERS) AND THEIR ACTIVITIES SHOULD BE RESTRICTED TO ONE SIDE OF THE ROADWAY UNLESS THE NATURE OF THE CONSTRUCTION OR MAINTENANCE OPERATION REQUIRES OTHERWISE.
8. ALL SIGNS SHALL BE POST MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS EXCEPT FOR THOSE SIGNS THAT ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, IN THE SAME LOCATION, WHEN ALL DEVICES ARE REMOVED AT NIGHT, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS.
9. ANY OBSTACLES OR HAZARDS WITHIN THE WORK AREA SHALL BE MARKED IN ACCORDANCE WITH MUTCD, PART VI (LATEST EDITION).
10. THE SPACING BETWEEN CHANNELIZING DEVICES IN A WORK AREA SHALL BE 40' (MAXIMUM).
11. WARNING LIGHTS SHOULD BE USED TO MARK CHANNELIZING DEVICES AT NIGHT AS NEEDED.
12. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
13. DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
14. TYPE I BARRICADES OR DRUMS MAY BE SUBSTITUTED FOR CONES (NO PAY ITEM FOR TYPE I BARRICADES).
15. HIGH LEVEL WARNING DEVICES SHOULD BE USED TO SUPPORT ANY SIGNS SHOWN WHEN TRAFFIC CONDITIONS WARRANT.
16. TYPE B HIGH INTENSITY WARNING LIGHTS SHOULD BE PLACED ON ADVANCE WARNING SIGNS.
17. TRAFFIC CONES SHALL BE PLACED AT 40' O/C PARALLEL TO THE TRAFFIC LANE, 20' O/C IN TAPERS.
18. ALL CONSTRUCTION SIGNS SHALL MEET ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2022 EDITION.
19. THE CONTRACTOR IS REQUIRED TO MAINTAIN ONE LANE OF TRAFFIC AND TEMPORARY ACCESS TO FACILITIES AT ALL TIMES.

EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE CONSIDERED TO BE THE MINIMUM ACCEPTABLE MEASURES. THE CONTRACTOR SHALL UTILIZE "BEST MANAGEMENT PRACTICES" AS NECESSARY TO PREVENT SEDIMENT LADEN STORMWATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE. THE CONTRACTOR SHALL MAINTAIN AND REPAIR EROSION CONTROL MEASURES IN AN EXPEDITIOUS MANNER AFTER EACH RAINFALL EVENT AND INSPECT THEM TWICE WEEKLY IN THE EVENT OF NO RAINFALL. BEST MANAGEMENT PRACTICES (BMPS) ARE DEFINED AS: SCHEDULES OF ACTIVITIES, PROHIBITIONS OF PRACTICES, MAINTENANCE PROCEDURES, AND OTHER MANAGEMENT PRACTICES TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF THE UNITED STATES. BMPS ALSO INCLUDE TREATMENT REQUIREMENTS, OPERATING PROCEDURES, AND PRACTICES TO CONTROL PLANT SITE RUNOFF, SPILLAGE OR LEAKS, SLUDGE OR WASTE DISPOSAL, OR DRAINAGE FROM RAW MATERIAL STORAGE. WITH REGARD TO CONSTRUCTION THESE MAY INCLUDE STRUCTURAL DEVICES OR NONSTRUCTURAL PRACTICES THAT ARE DESIGNED TO PREVENT POLLUTANTS FROM ENTERING WATER OR TO DIRECT THE FLOW OF WATER.
2. TYPE "A" SILT FENCE SHALL BE USED IN AREAS WHERE INDICATED OR AS DIRECTED BY THE ENGINEER.
3. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
4. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION. SILT FENCES SHALL BE CLEANED, SILT REMOVED, AND REPAIRED AS NECESSARY AS PART OF REQUIRED BMP MAINTENANCE.
5. AFTER THE CONSTRUCTION AREA IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.
6. CONTRACTOR IS REQUIRED TO STABILIZE DISTURBED AREAS WITH TEMPORARY GRASS OR SOIL STABILIZER IF AREAS WILL REMAIN DISTURBED FOR 14 DAYS OR LONGER.
7. THE CONTRACTOR IS HEREBY DIRECTED TO PROVIDE SEDIMENT RUNOFF PROTECTION WHERE NECESSARY TO PREVENT SILT LADEN RUNOFF FROM ENTERING THE STREAMS NEAR THE PROPOSED PROJECT.
8. GRASS GROUND COVER SHALL BE MAINTAINED UPON COMPLETION OF CONSTRUCTION.
9. THE EROSION AND SEDIMENT CONTROL ITEMS SHOWN ON THE PLANS ARE PROVIDED AS A STARTING POINT FOR A COMPREHENSIVE SEDIMENT AND EROSION CONTROL PLAN TO BE IMPLEMENTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE PREPARED TO ANTICIPATE AND ADJUST BEST MANAGEMENT PRACTICES AS NECESSARY THROUGHOUT CONSTRUCTION TO RESTRICT THE AMOUNT OF SILT LADEN RUNOFF LEAVING THE PROJECT.
10. SEDIMENT & EROSION CONTROL ITEMS SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE FOLLOWING HANDBOOKS:
 - A. ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS.
 - B. EPA STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES.
 - C. EPA GUIDANCE SPECIFYING MANAGEMENT MEASURES FOR SOURCES OF NON-POINT POLLUTION IN COASTAL WATERS.
 - D. AASHTO GUIDELINES FOR EROSION AND SEDIMENT CONTROL IN HIGHWAY CONSTRUCTION.
 - E. SOUTH ALABAMA REGIONAL PLANNING COMMISSION BEST MANAGEMENT PRACTICES FOR NON-POINT SOURCE RUNOFF CONTROL, MOBILE & BALDWIN COUNTIES, ALABAMA.
11. UNLESS OTHERWISE SET FORTH IN CONTRACT DOCUMENTS WITH THE PROJECT OWNER, WHEN AN ADEM STORMWATER DISCHARGE PERMIT (NOI) HAS BEEN OBTAINED FOR THE SITE, THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE AND MAINTAIN A WRITTEN DAILY LOG OF RAINFALL AMOUNTS AT THE SAME TIME EACH DAY. AT THE END OF EACH MONTH, THE CONTRACTOR MUST PROVIDE A COPY OF THAT MONTH'S RAINFALL RECORDS TO THE ENGINEER. THE RAIN GAUGE MUST BE INSTALLED AT THE TOP OF A POST PLACED AT LEAST 50' FROM TREES, BUILDINGS, OR OTHER OBJECTS THAT COULD IMPEDE THE FREE ENTRY OF RAINFALL INTO THE RAIN GAUGE. THE CONTRACTOR MUST NOTIFY THE ENGINEER WITHIN 8 HOURS OF RECORDING ANY DAILY RAINFALL AMOUNT EXCEEDING 0.75". THE CONTRACTOR SHALL POST THE NOI PERMIT NUMBER IN A HIGHLY VISIBLE LOCATION ON THE SITE AND MAINTAIN IT IN A LEGIBLE CONDITION UNTIL THE PROJECT IS COMPLETED AND A PERMIT TERMINATION HAS BEEN APPROVED BY ADEM. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR MUST NOTIFY THE ENGINEER IN ORDER TO INSPECT THE SITE AND APPLY FOR A TERMINATION OF THE ADEM PERMIT.
12. THE CONTRACTOR SHALL REFER TO THE "EROSION CONTROL, DITCHES, AND FLUMES" SECTION OF THE ALDOT SPECIAL AND STANDARD HIGHWAY DRAWINGS FOR ADDITIONAL METHODS OF EROSION AND SEDIMENT CONTROL.
13. ALL CLEARING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO LIMIT EROSION OF MATERIALS FROM THE CONSTRUCTION AREA.
14. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL INSTALL NECESSARY RETENTION BERMS, HAY BALES, OR SILT FENCE TO PREVENT EROSION OF MATERIALS PRIOR TO THE NEXT SCHEDULED WORK OR PERIOD.
15. REGULAR MAINTENANCE OF EROSION CONTROL AND SILTATION FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. THE ENGINEER SHALL HAVE THE RIGHT TO REQUIRE INSTALLATION OF ADDITIONAL FACILITIES IF DEEMED NECESSARY TO PROTECT ADJACENT AREAS.
17. EROSION CONTROL AND SILTATION FACILITIES SHALL BE REMOVED ON AN INDIVIDUAL BASIS ONLY AFTER SPECIFIC AREAS HAVE STABILIZED.
18. HAY BALES REMOVED, WHICH ARE IN GOOD CONDITION, SHALL BE DISPERSED AS MULCH IN ADJACENT OR OTHER AREAS, AS APPROVED BY THE ENGINEER, TO FACILITATE ESTABLISHMENT OF A PERMANENT GRASS STAND.



REVISIONS:

PLAN SUBMITTAL
100%

PLANS PREPARED BY:
 2970 COTTAGE HILL ROAD
 SUITE 190
 MOBILE, AL 36606

NOT TO SCALE

SHEET TITLE
TRAFFIC & EROSION CONTROL NOTES

ROUTE
DUNLAP DRIVE

EROSION AND SEDIMENT CONTROL LEGEND SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	5A

BEST MANAGEMENT PRACTICES (BMP's)

TEMPORARY SLOPE DRAIN PIPE WITH ROCK DITCH CHECK AND SUMP EXCAVATION	
TEMPORARY EARTH BERM	
BRUSH BARRIER	
SILT FENCE SEDIMENT BARRIER	
FLOATING BASIN BOOM	
HAY BALE DITCH CHECK	
SAND BAG DITCH CHECK	
WATTLE DITCH CHECK	
SILT DIKE DITCH CHECK	
ROCK DITCH CHECK	
ROCK DITCH CHECK WITH SUMP EXCAVATION	
SILT FENCE DITCH CHECK	
INLET PROTECTION	
STABILIZED CONSTRUCTION ENTRANCE	
EROSION CONTROL PRODUCT	
SLOPE DRAIN	

TEMPORARY EARTH BERM WITH POLYETHYLENE	
DREDGE, FILL	
PRIMARY STORMWATER DISCHARGE POINT	
SECONDARY STORMWATER DISCHARGE POINT	
BACKGROUND POINT	
SEDIMENT RETENTION BARRIER	
SOLID SODDING	
TEMPORARY RIPRAP BERM	
TEMPORARY SEDIMENTATION BASIN	
PERMANENT DETENTION BASIN	

EROSION AND SEDIMENT CONTROL PHASES

INITIAL PHASE - AS CLEARING BEGINS AND PRIOR TO ANY GRUBBING OR GRADING WORK.

INTERMEDIATE PHASE - AS NEEDED. AS WORK IS ONGOING AND ADVANCING TOWARD COMPLETION.

FINAL CONSTRUCTION - AS WORK IS COMPLETED AND PERMANENT VEGETATION IS ESTABLISHED.

--SPECIFICATIONS--
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DESIGN BUREAU SPECIAL DRAWING
EROSION & SEDIMENT CONTROL LEGEND

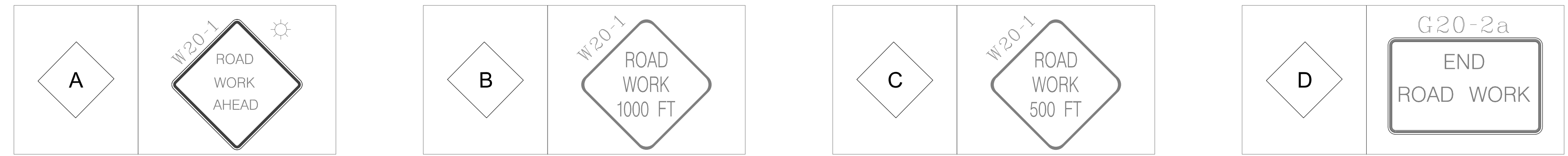
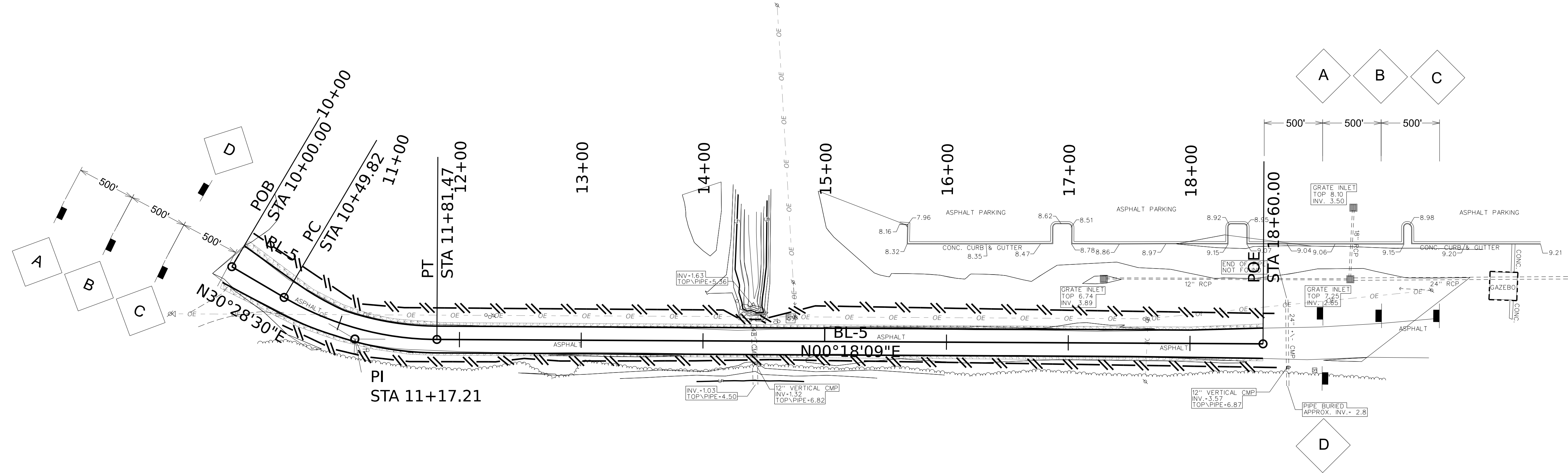
BUREAU STD ENGR: L.V.S.

DRAWN BY: W.D.H. DATE DRAWN: 10-14-16

SPECIAL DRAWING NO
SPECIAL PROJECT DETAIL

INDEX NO

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	5B

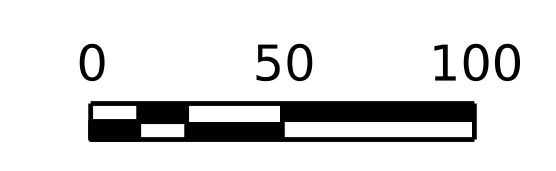


REVISIONS:

PLAN SUBMITTAL
100%

PLANS PREPARED BY:

 2970 COTTAGE HILL ROAD
 SUITE 190
 MOBILE, AL 36606

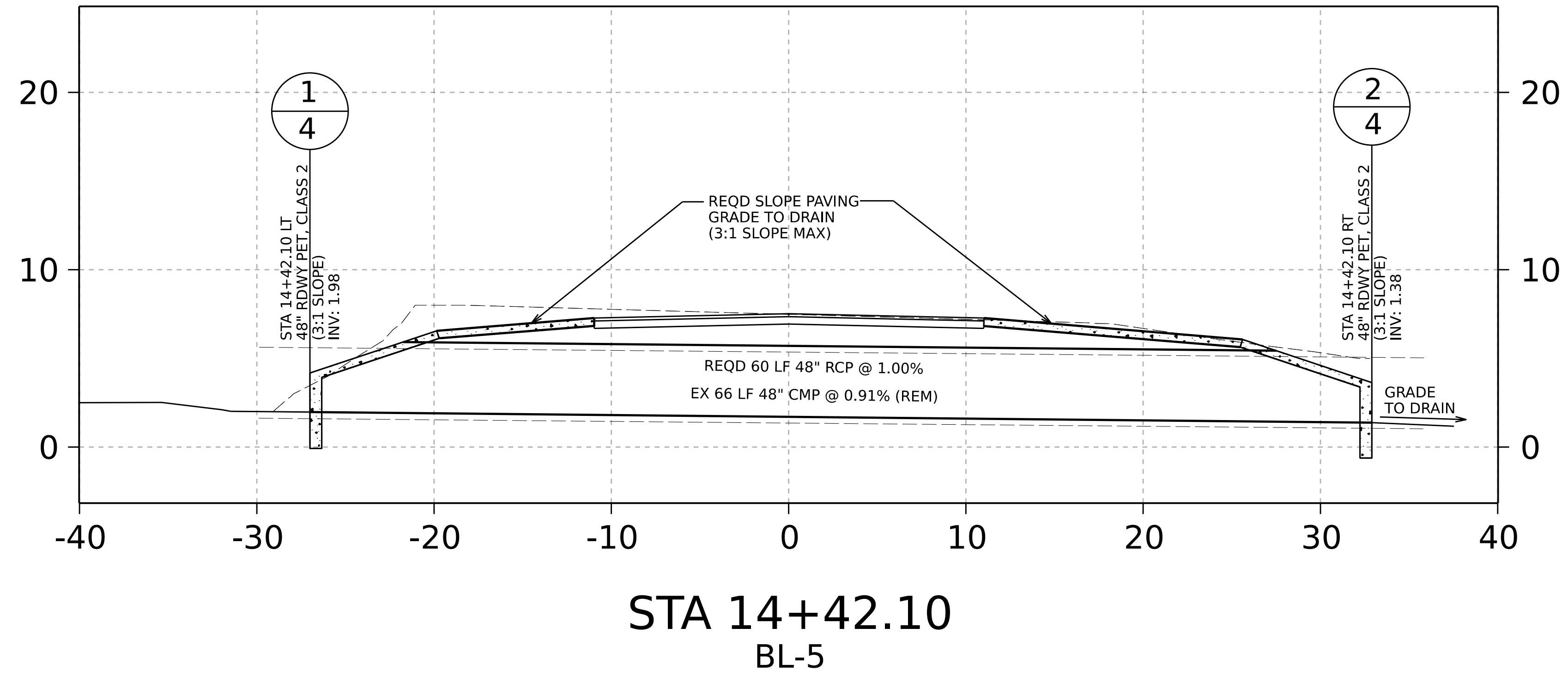


SHEET TITLE
TRAFFIC & EROSION CONTROL PLAN

ROUTE
DUNLAP DRIVE

DRAINAGE SECTIONS

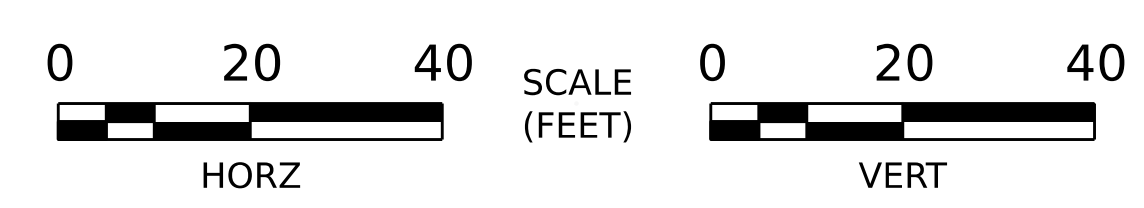
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	6



REVISIONS:

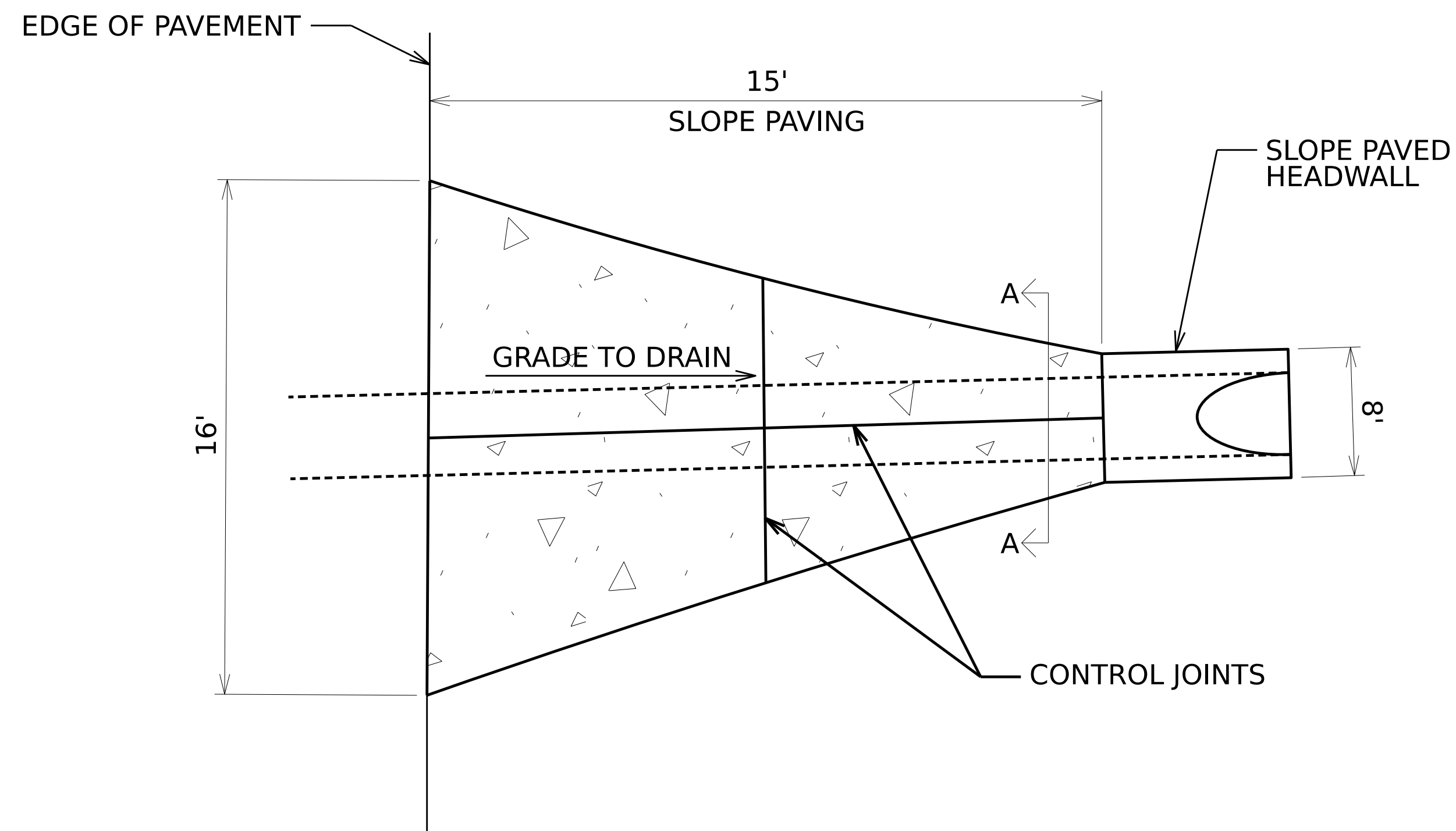
PLAN SUBMITTAL
100%

PLANS PREPARED BY:
thompson ENGINEERING
 2970 COTTAGE HILL ROAD
 SUITE 190
 MOBILE, AL 36606

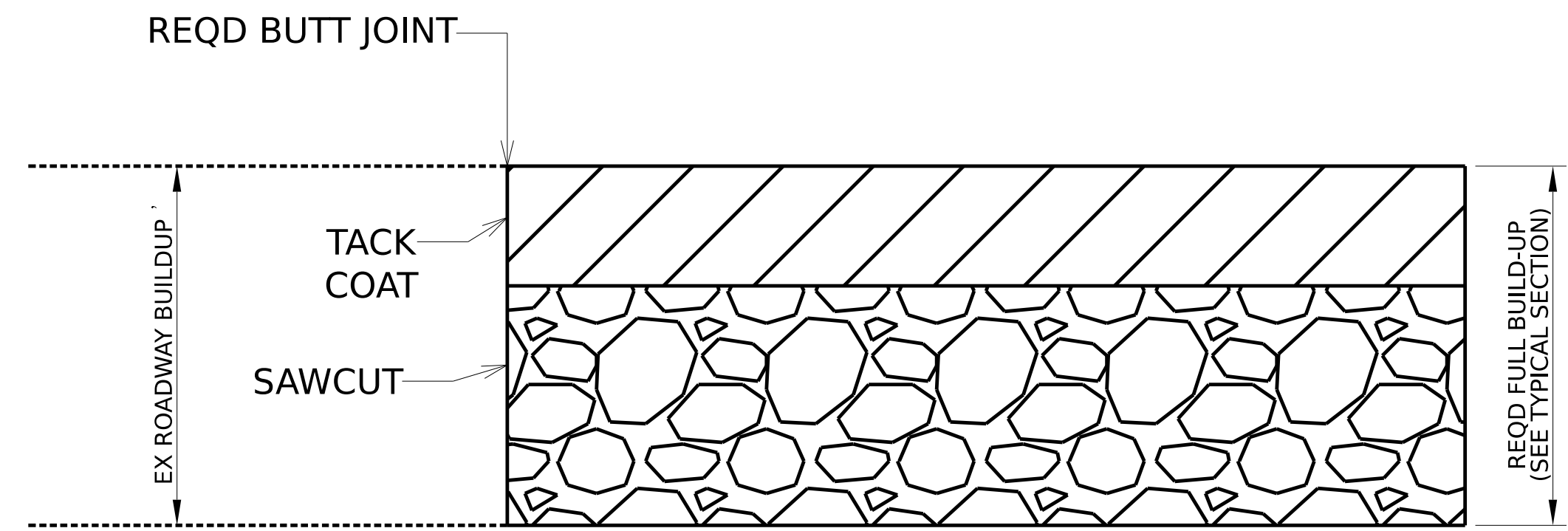


SHEET TITLE	ROUTE
DRAINAGE SECTIONS	DUNLAP DRIVE

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	7

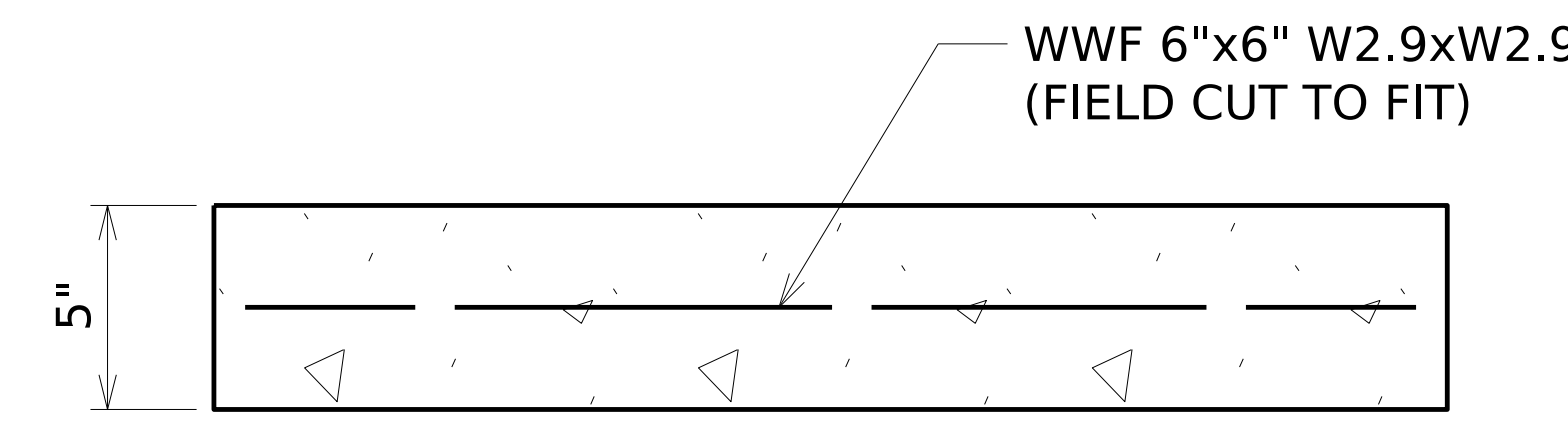


SLOPE PAVING DETAIL (EAST SIDE)
N.T.S.

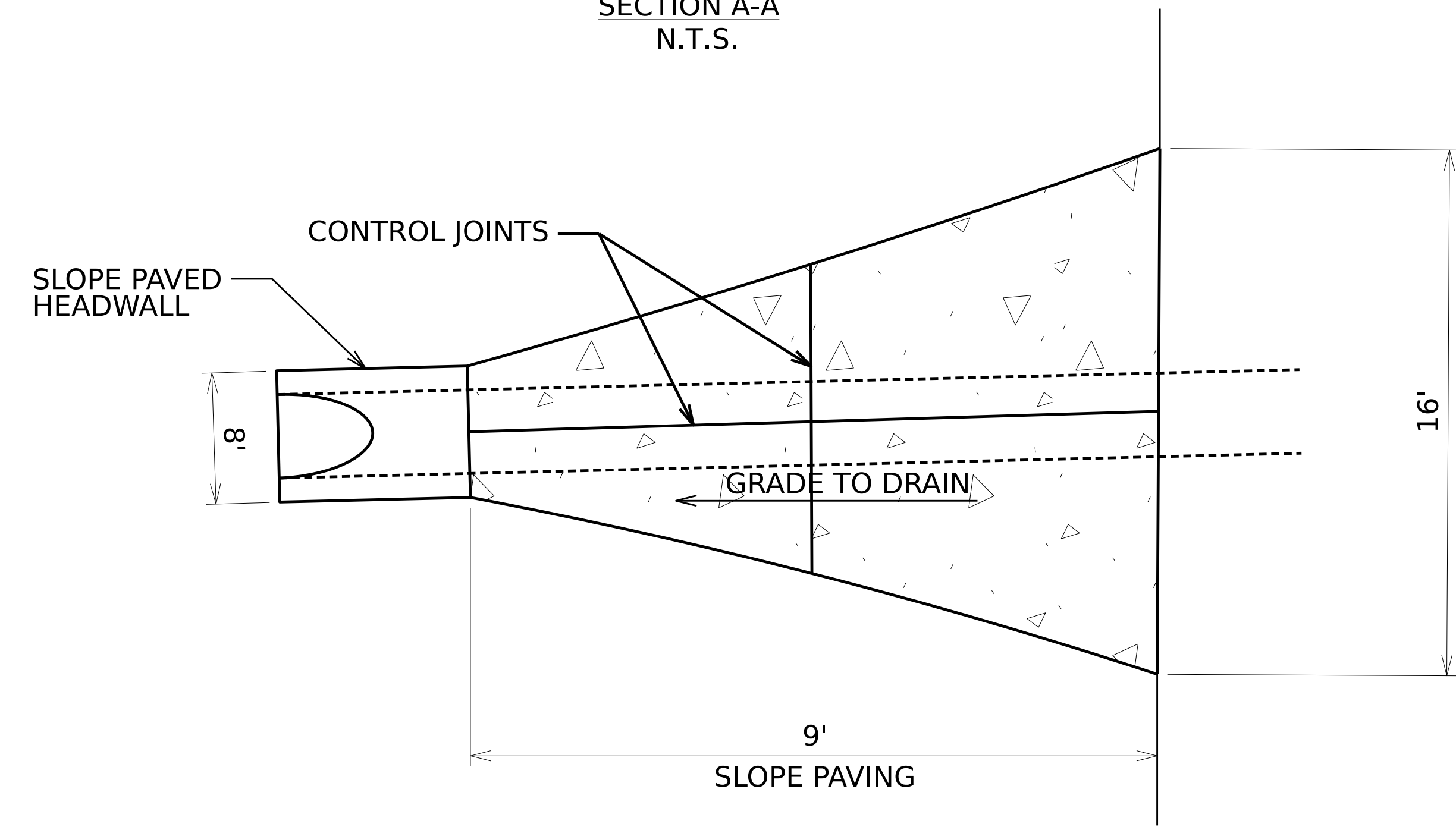


BUTT JOINT DETAIL
N.T.S.

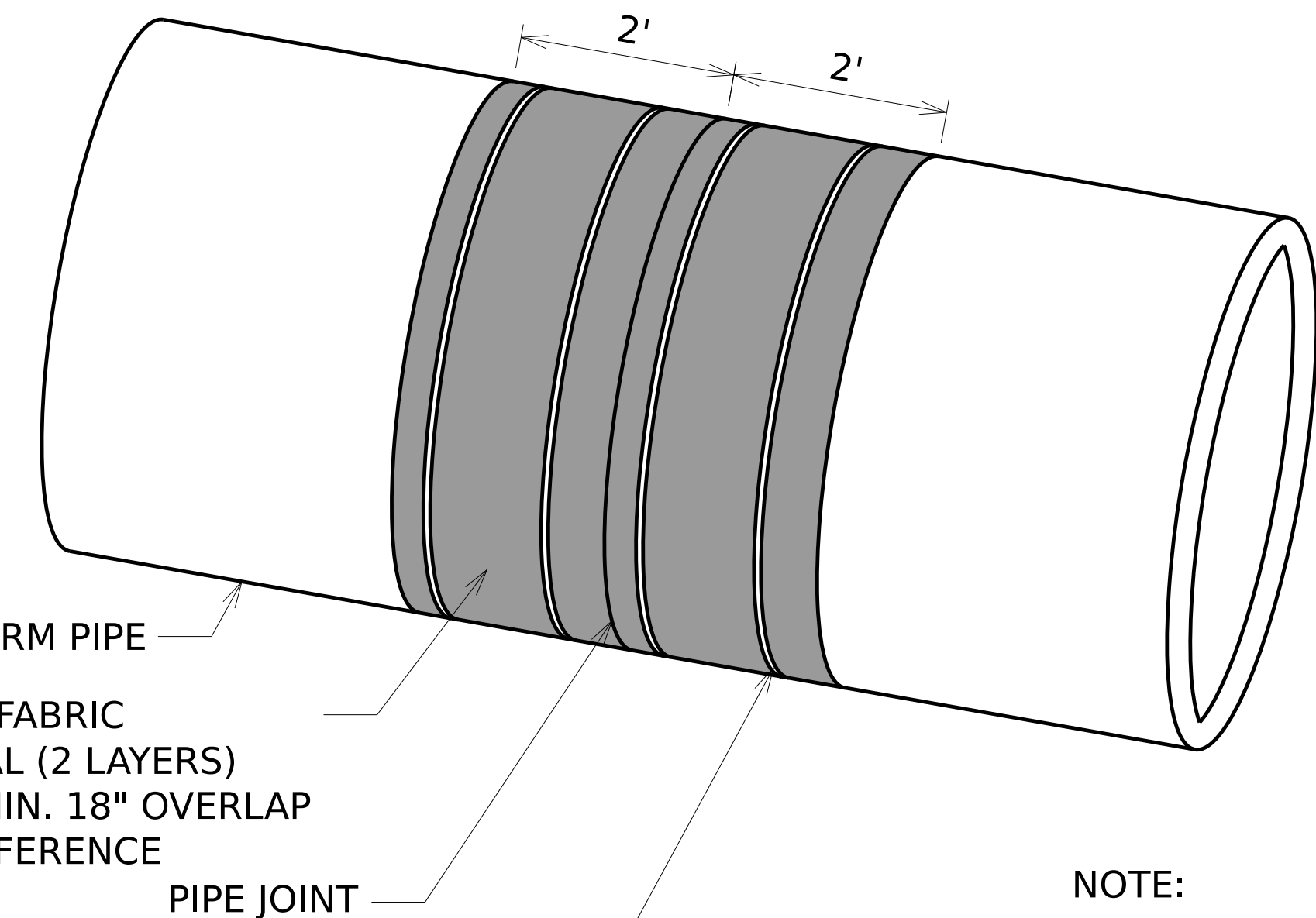
NOTE:
SAWCUTTING, REMOVAL OF ASPHALT PAVEMENT, AND TACK COAT IS CONSIDERED A SUBSIDIARY OBLIGATION OF PAY ITEM 408A-053 PLANING EXISTING PAVEMENT (APPROXIMATELY 2.10" THRU 3.0" THICK)



SECTION A-A
N.T.S.



SLOPE PAVING DETAIL (WEST SIDE)
N.T.S.



STORM PIPE JOINT WRAP DETAIL
N.T.S.

NOTE:
THIS IS A SUBSIDIARY OBLIGATION TO PAY ITEM 530A-028

TEMPORARY TRAFFIC CONTROL PLAN SHEET

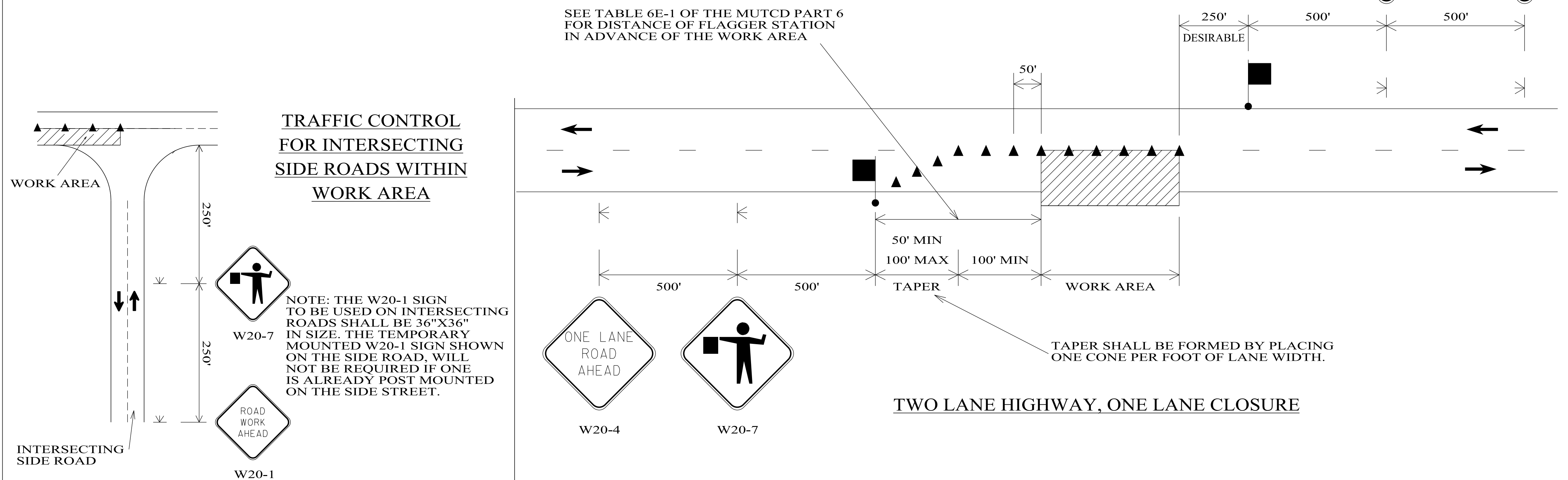
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
11183.1	2023	8

GENERAL NOTES

- ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.

REQUIRED SIGN SIZES	
G20-1	48" X 24"
G20-2	48" X 24"
R2-1	24" X 30"
W3-5b	48" X 48"
R16-3	48" X 60"
R16-3a	48" X 48"
W20-1	48" X 48"
W20-4	48" X 48"
W20-7	48" X 48"

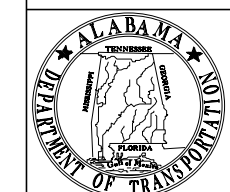
THE SIGN SIZES SHOWN ON THIS SHEET SHALL SUPERCEDE THOSE SHOWN ON THE STANDARD HIGHWAY SIGNS DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER.



LEGEND

- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CONES
- FLAGGER
- WORK AREA

NOT TO SCALE



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REVISIONS:

1.

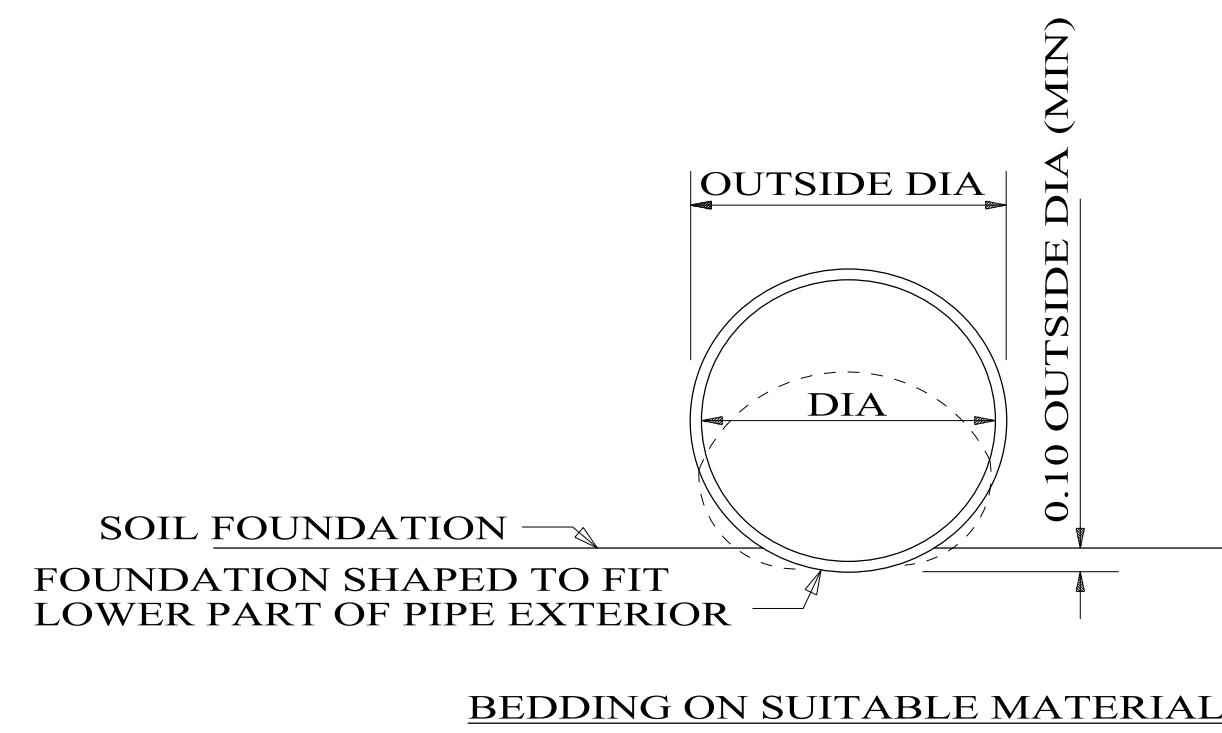
Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN:
REVISED DATE: 3-24-2021

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CONTROL FOR TWO LANE HIGHWAYS

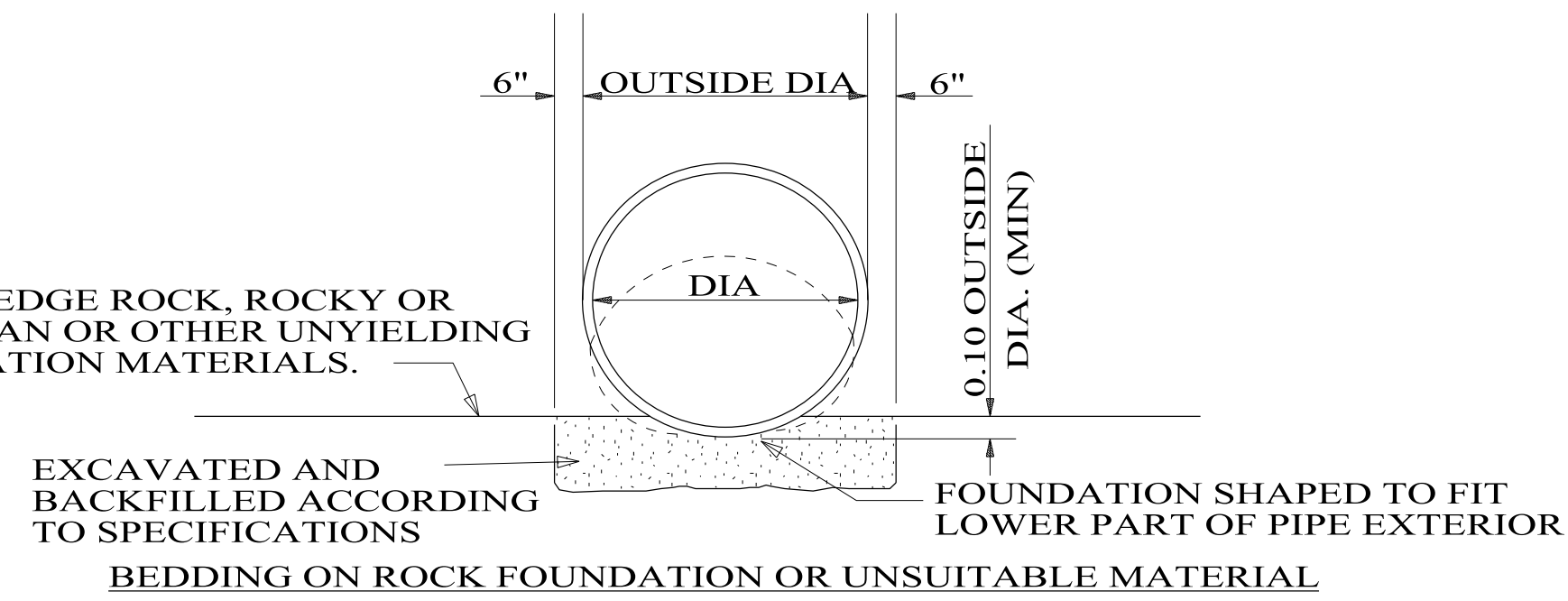
--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO
SPECIAL PROJECT DETAIL

INDEX NO
2002



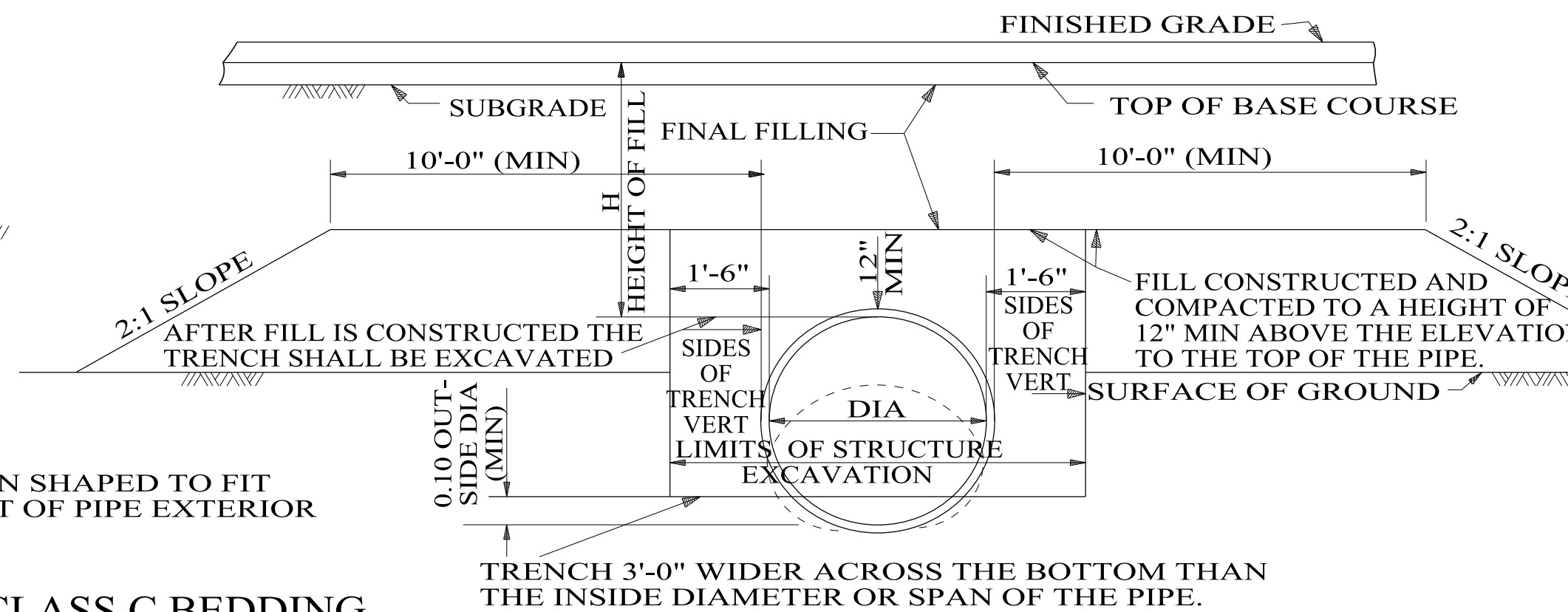
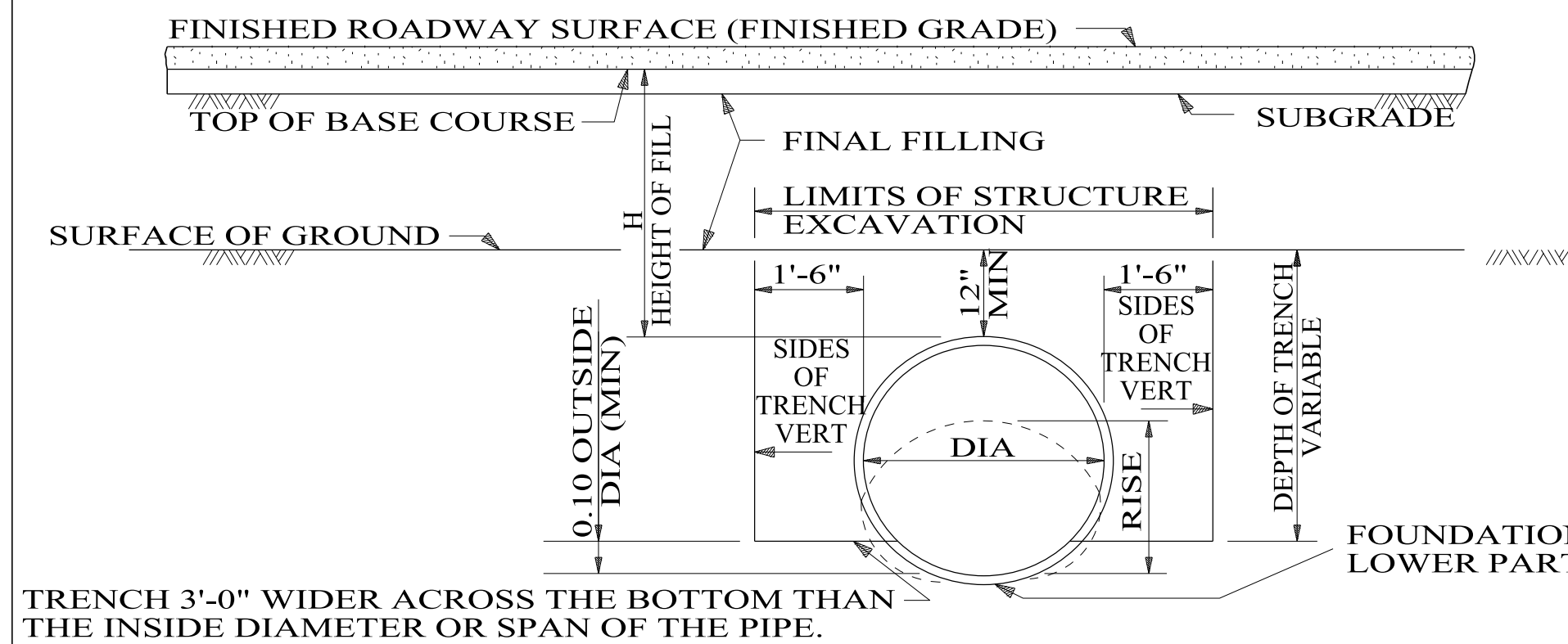
NATURAL SURFACE OF LEDGE ROCK, ROCKY OR GRAVELLY SOIL, HARD PAN OR OTHER UNYIELDING OR UNSUITABLE FOUNDATION MATERIALS.



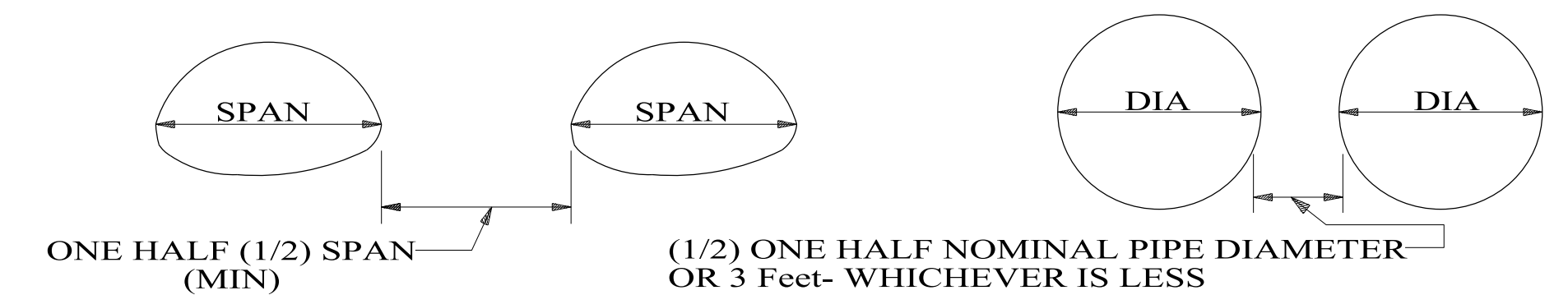
**DETAILS OF CLASS C BEDDING
POSITIVE PROJECTION**

WHERE THE GROUND SURFACE EXTENDS AT LEAST ONE FOOT (1') ABOVE THE ELEVATION OF THE TOP OF THE PIPE

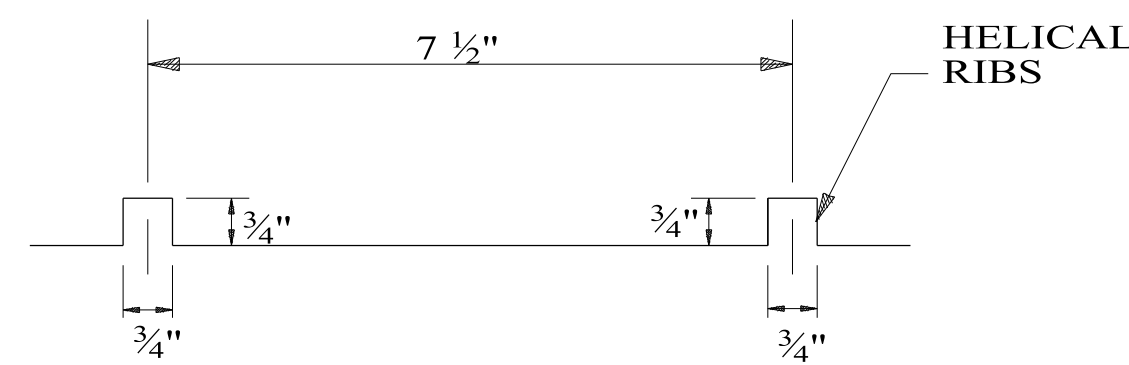
WHERE THE GROUND SURFACE IS LESS THAN ONE FOOT (1') ABOVE THE ELEVATION OF THE TOP OF THE PIPE



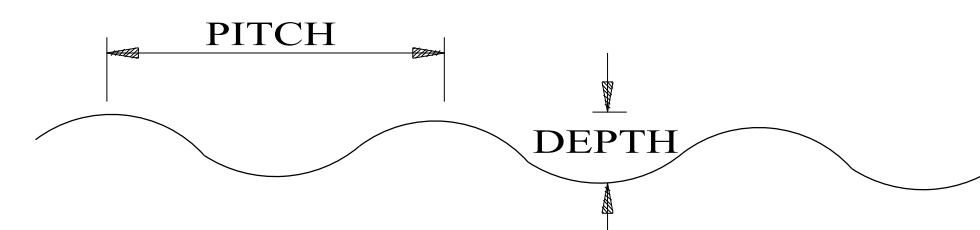
**DETAILS OF CLASS C BEDDING
NEGATIVE PROJECTION**



MULTIPLE INSTALLATIONS

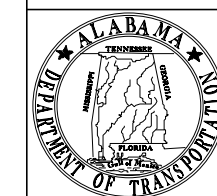


TYPE OF MATERIAL	PITCH	DEPTH
CORRUGATED ALUMINUM	2 2/3"	1/2"
CORRUGATED METAL	2 2/3"	1/2"
CORRUGATED METAL	3"	1"
CORRUGATED METAL	5"	1"
HELICAL RIBBED METAL	7 1/2"	3/4"
STRUCTURAL PLATE CORR	6"	2"



**GENERAL NOTES (ROADWAY PIPE)
CMP & RCP**

- (CMP) 1. GAUGES FOR METAL PIPE ARE MINIMUM GAUGES FOR STRUCTURAL REQUIREMENTS ONLY AND ARE INTENDED TO BE USED WHERE CORROSIVE AND ABRASIVE CONDITIONS ARE NEGLIGIBLE. HEAVIER GAUGES AND/OR PROTECTIVE COATINGS SHALL BE USED WHERE SITE INVESTIGATIONS INDICATE CORROSIVE AND/OR ABRASIVE CONDITIONS OR WHERE ANTICIPATED VELOCITIES EXCEED 5 FEET PER SECOND.
- (CMP) 2. MAXIMUM FILL HEIGHTS FOR CORRUGATED METAL ROADWAY ARCH PIPE SHALL BE BASED ON 4000 LBS BEARING PRESSURE OF THE FOUNDATION MATERIAL UNLESS ACTUAL TEST ARE MADE WHICH PROVE THE FOUNDATION MATERIAL TO HAVE HIGHER BEARING CAPACITIES.
- (RCP & CMP) 3. MAXIMUM FILL HEIGHT SHOWN IN TABLES ARE FROM TOP OF PIPE TO TOP OF BASE COURSE.
- (RCP & CMP) 4. MINIMUM FILL HEIGHTS SHOWN IN TABLES ARE FROM TOP OF PIPE TO TOP OF SUBGRADE.
- (RCP) 5. INSTALLATION (RCP): THE MIDDLE THIRD OF BEDDING MATERIAL UNDER THE PIPE SHALL BE LOOSELY PLACED, WHILE THE REMAINDER SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY PER AASHTO T-99. SEE ALDOT SPECIFICATIONS SECTION 530.03-CLASS C BEDDING.
- (RCP) 6. CONCRETE PIPE SHALL CONFORM TO THE REQUIREMENTS OF "AASHTO LRFD CONSTRUCTION SPECIFICATIONS", SECTION 27-LATEST EDITION.
- (CMP) 7. CORRUGATED METAL PIPE SHALL CONFORM TO THE REQUIREMENTS OF "AASHTO LRFD CONSTRUCTION SPECIFICATIONS", SECTION 26-LATEST EDITION.



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REVISIONS:
1. Deleted Notes 3 & 4 and renumbered; removed Pre-Bed. Conc. Pipe sketch & replaced w/Details of corrugations on 5-9-2003 by W.W.A.
2. Added H.D.P.E. Pipe Tables & Std. Installation on 9-27-2006 by W.W.A.
3. Adjusted Table 2 to current Standard Specifications on 5-23-2008 by W.W.A.
4. Deleted "IMPERFECT TRENCH" detail and Trench note & edited "GENERAL NOTES" to coincide with CMP & RCP on 11-4-2013 by J.F.T.
5. Deleted Class C-1 Bedding note & corrected Note6 from "503.03" to "530.03" on 8-6-2015 by L.V.S.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 5-26-1975
REVISED DATE: 8-6-2015

DESIGN BUREAU SPECIAL DRAWING
BEDDING AND FILL HEIGHTS FOR
ALL ROADWAY PIPE CULVERTS
(RCP AND CMP)

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--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIAL DRAWING NO
RPC-530
(SHEET 1 OF 3)

INDEX NO
53004

FILL HEIGHTS FOR CORRUGATED METAL ROUND ROADWAY PIPE

Table with columns: PIPE DIAM. IN INCHES, AREA IN SQ. FT., PIPE CHARACTERISTICS (CORRUGATED STEEL, ALUM.), MINIMUM COVER (INCHES), MAXIMUM FILL HEIGHT IN FEET FOR METAL PIPE GAUGES BELOW (14, 12, 10, 8).

FILL HEIGHTS FOR CORRUGATED METAL AND STRUCTURAL PLATE ROADWAY ARCH PIPE

Table with columns: EQUIV. PIPE DIA. IN INCHES, CORRUGATED METAL PIPE ARCH (STEEL, ALUM.), STRUCT. PLATE PIPE ARCH (STEEL, ALUM.), MINIMUM GAUGE OR PLATE THICKNESS, SPAN, RISE, MINIMUM COVER (INCHES), MAXIMUM FILL HEIGHT (FEET) (CORNER BEARING PRESSURE: 4000 LBS., 6000 LBS., 8000 LBS.).

MAX. FILL HEIGHTS (FT.) FOR CONCRETE ROUND ROADWAY PIPE WITH CLASS C BEDDING

Table with columns: PIPE DIA. (IN.), CLASS OF PIPE (III, IV, V).

- NOTES: REINFORCED CONCRETE ROADWAY PIPE
1. FOR FILL HEIGHTS GREATER THAN LISTED ABOVE, PIPE SHALL BE REFERENCED AS "SPECIAL DESIGN".
2. "SPECIAL DESIGN" RCP SHALL REQUIRE STRUCTURAL CALCULATIONS STAMPED BY REGISTERED ENGINEER BASED UPON DIRECT DESIGN ANALYSIS AND MAY UTILIZE ACPA'S "PIPECAR" DESIGN SOFTWARE.
3. THE "SPECIAL DESIGN" PIPE SUBMITTAL SHALL INCLUDE BACKFILL AND INSTALLATION DETAILS FOR THE SPECIFIC DESIGN.

FILL HEIGHTS FOR STRUCTURAL PLATE ROUND ROADWAY PIPE

Table with columns: PIPE DIAM. IN INCHES, AREA IN SQ. FT., CORRUGATED STRUCT. PLATE PIPE (STEEL, ALUM.), MINIMUM COVER (INCHES), MAXIMUM FILL HEIGHT IN FEET FOR STEEL STRUCTURAL PLATE THICKNESSES SHOWN BELOW (various thicknesses), MAXIMUM FILL HEIGHT IN FEET FOR ALUMINUM STRUCTURAL PLATE THICKNESSES SHOWN ABOVE *.

* Below 3.5' of cover, ribs may be required. See AASHTO Design Specifications. See manufacturers recommendations for thicknesses greater than those specified for the diameter.

FILL HEIGHTS FOR HELICAL RIBBED ROADWAY PIPE

Table with columns: PIPE DIAMETER IN INCHES, THICKNESS AND SPECIFIED GAUGE ((.079") 14, (.109") 12), MIN. COVER, MAX. FILL.

FILL HEIGHTS FOR CORRUGATED METAL SIDEDRAIN PIPE

Table with columns: PIPE DIAM., MIN. COVER, GAUGE, CORRUGATION, MAX. FILL HT.

FOR PIPE LOCATED WHERE FINISHED GRADE IS LESS THAN 24" FROM TOP OF PIPE, USE 14 GAUGE PIPE. FOR FILL HEIGHTS GREATER THAN THOSE SHOWN, SEE ROADWAY PIPE TABLES.

MAX. FILL HEIGHTS FOR CONCRETE ELLIPTICAL OR ARCH ROADWAY PIPE

Table with columns: EQUIV. PIPE DIAMETER IN INCHES, ARCH PIPE, HORIZ. ELLIP., MINIMUM COVER, CLASS III REINF. FILL HEIGHT.

NOTE: FOR CONCRETE ARCH PIPE ONLY A SINGLE REINFORCED WALL WILL BE ALLOWED FOR PIPE WITH AN EQUIVALENT DIAMETER OF 42" OR LESS. ARCH AND ELLIPTICAL PIPE TO BE PAID FOR UNDER SAME SIZE ARCH PAY ITEMS.

FILL HEIGHTS FOR CONCRETE SIDEDRAIN PIPE*

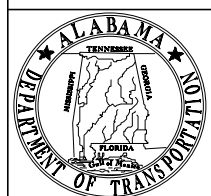
Table with columns: TYPE, SIZE, FILL HEIGHT.

* APPLIES TO ROUND AS WELL AS ARCH AND ELLIPTICAL PIPE. FILL HEIGHTS SHOWN APPLY TO STORM SEWER PIPE AS WELL AS SIDEDRAIN PIPE.

BEDDING IS NOT REQUIRED FOR SIDEDRAIN PIPE.

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Table with columns: --SPECIFICATIONS--, CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION, SPECIAL DRAWING NO., INDEX NO.



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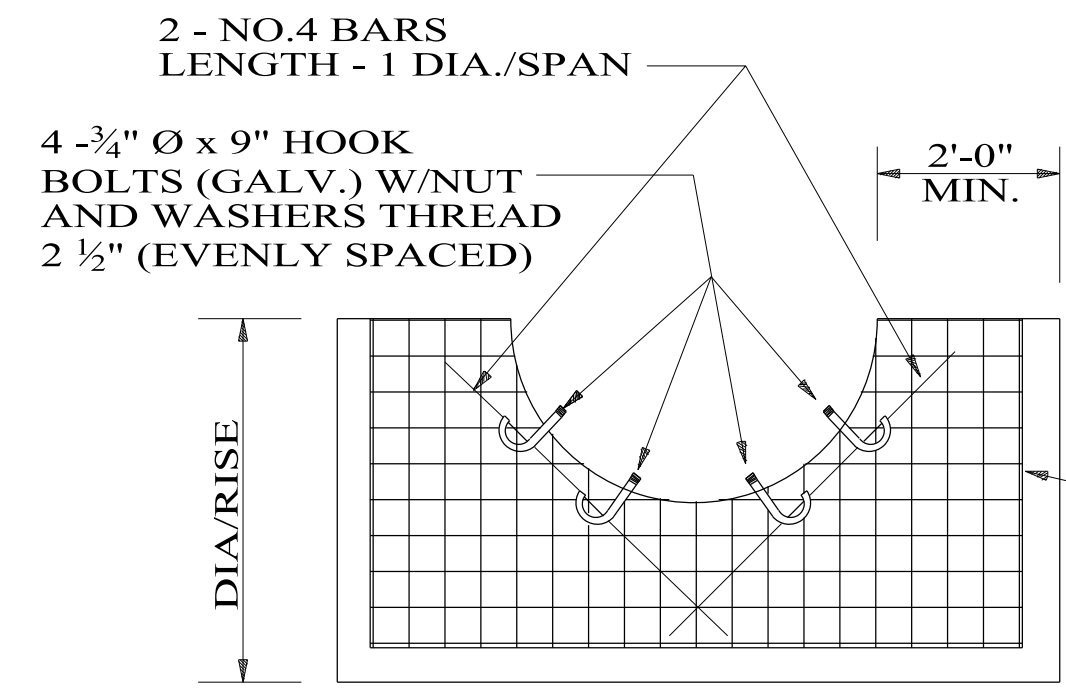
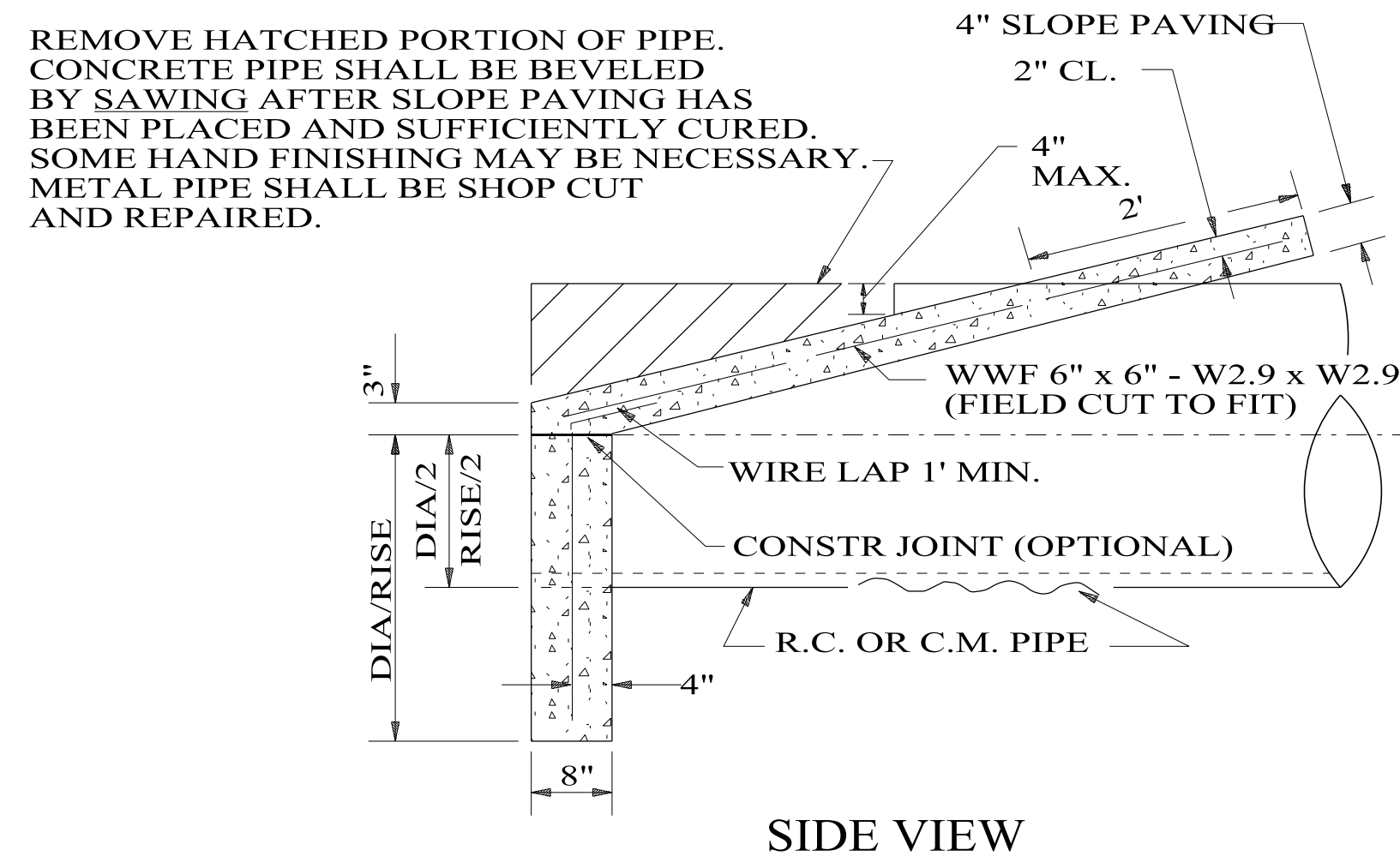
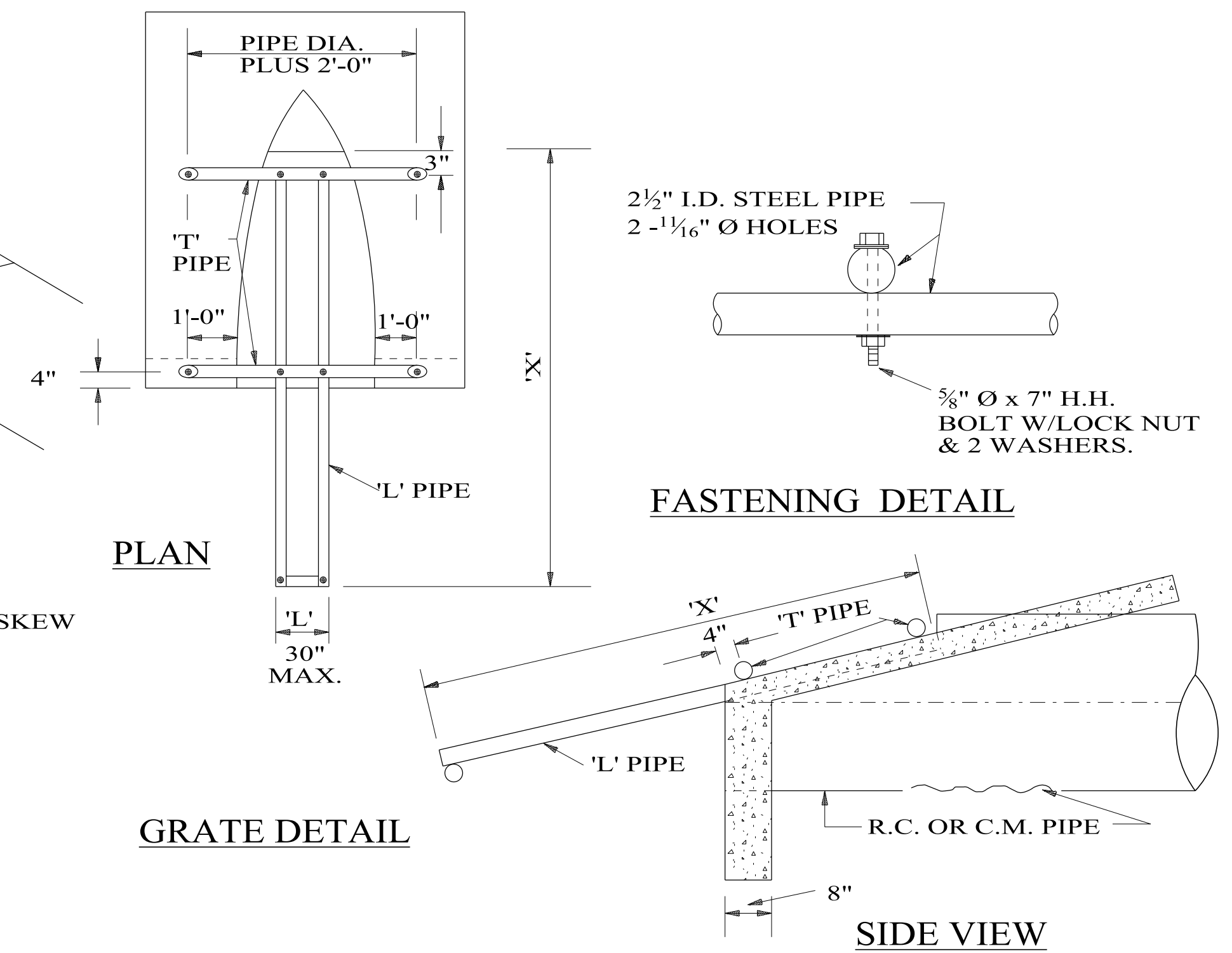
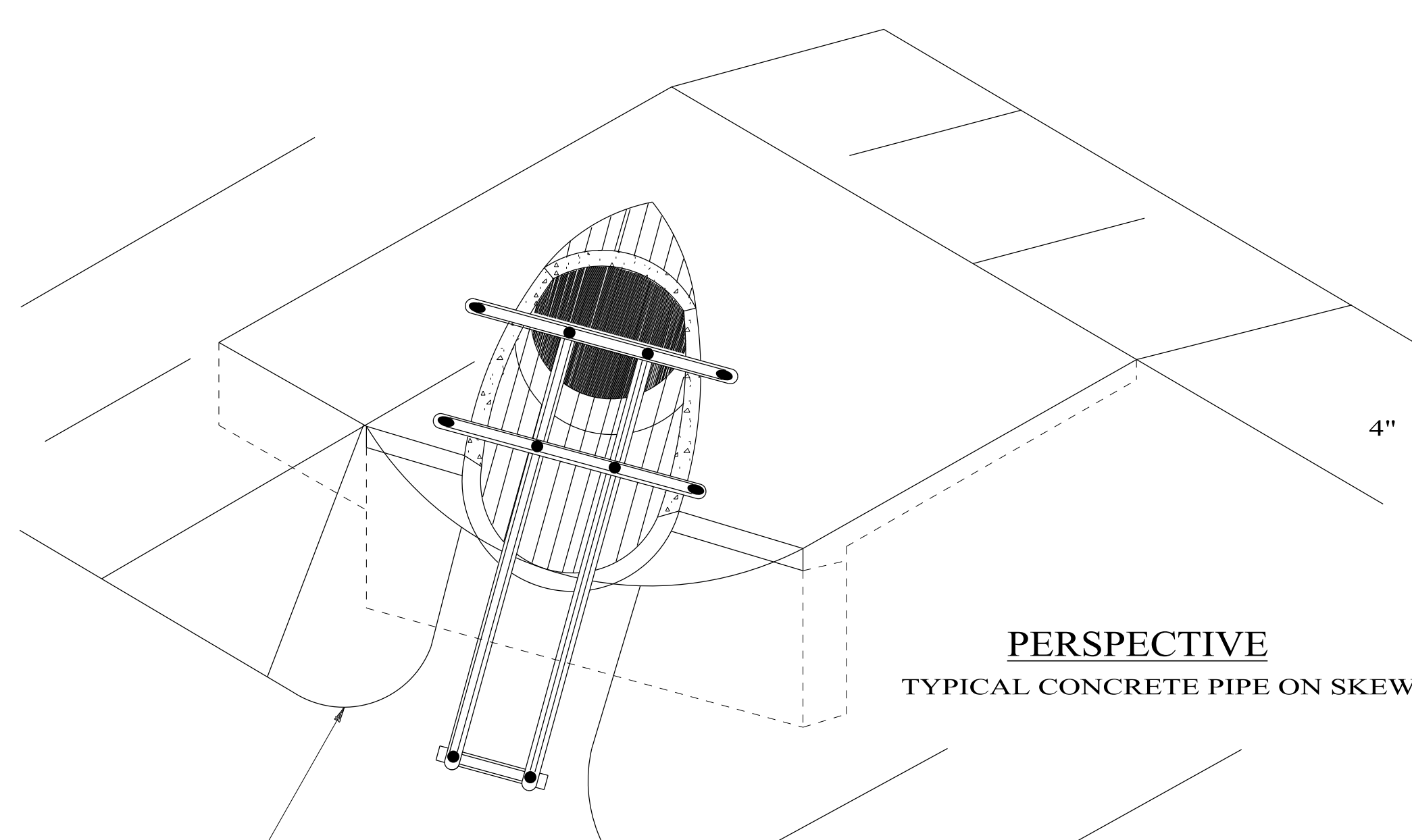
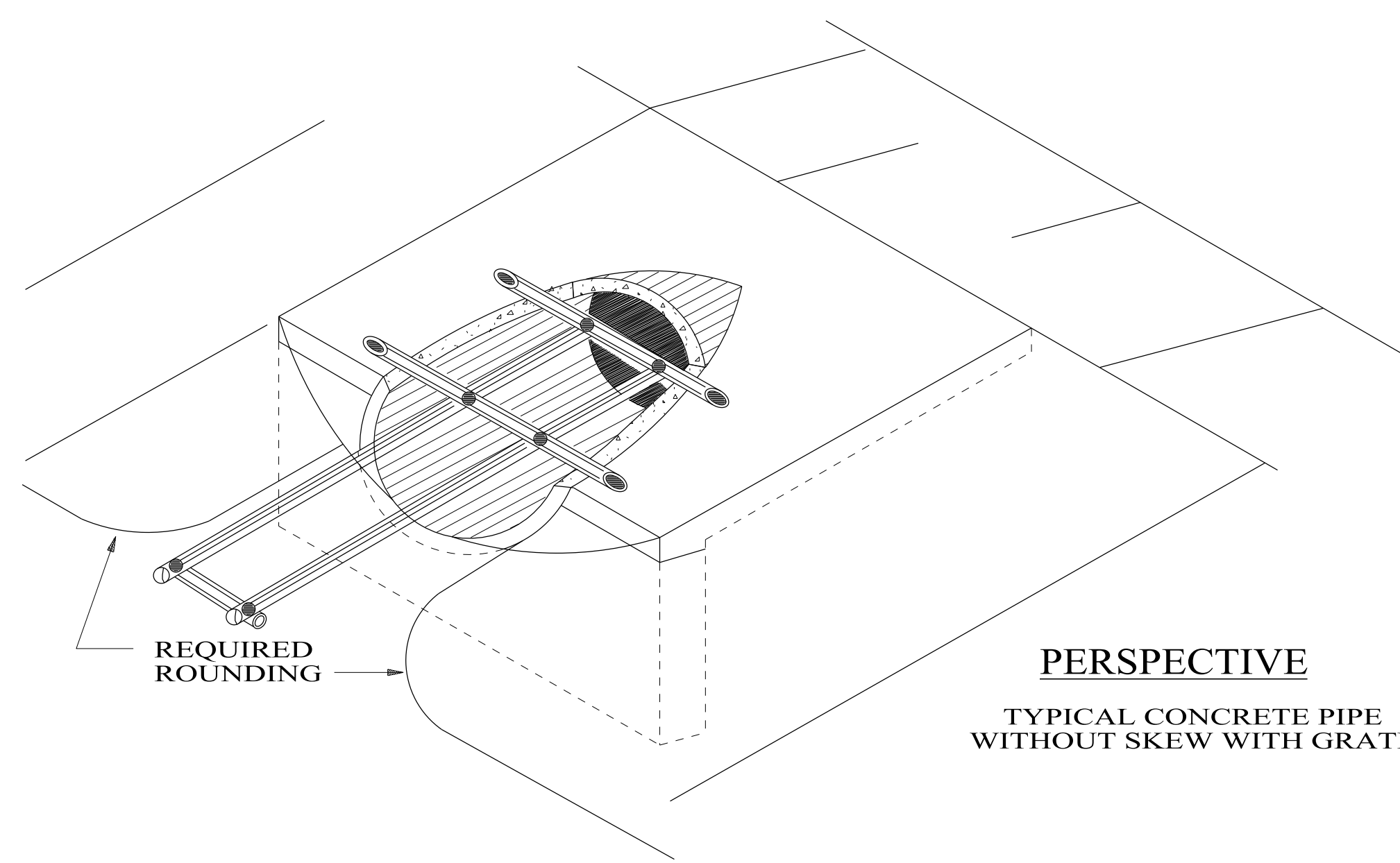
REVISIONS:
1. Changed fill height requirements for C.M. pipe to match latest AISI Standards on 10-15-1996 by C. J. S.
2. Changed fill height to 14" to match LRFD on "CONCRETE ARCH ROADWAY PIPE" & edited max Fill Height to match LRFD on 11-5-2013 by J.F.T.
3. Updated "FILL HEIGHTS FOR CORRUGATED METAL SIDEDRAIN PIPE (STEEL & ALUMINUM)" to coincide with Alabama Standard Specifications, 2012 Edition, Section 535 on Side Drain Pipe, Special Provision No. 12-1264 on 8-3-2016 by J.F.T.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 12-21-1992
REVISED DATE: 8-3-2016

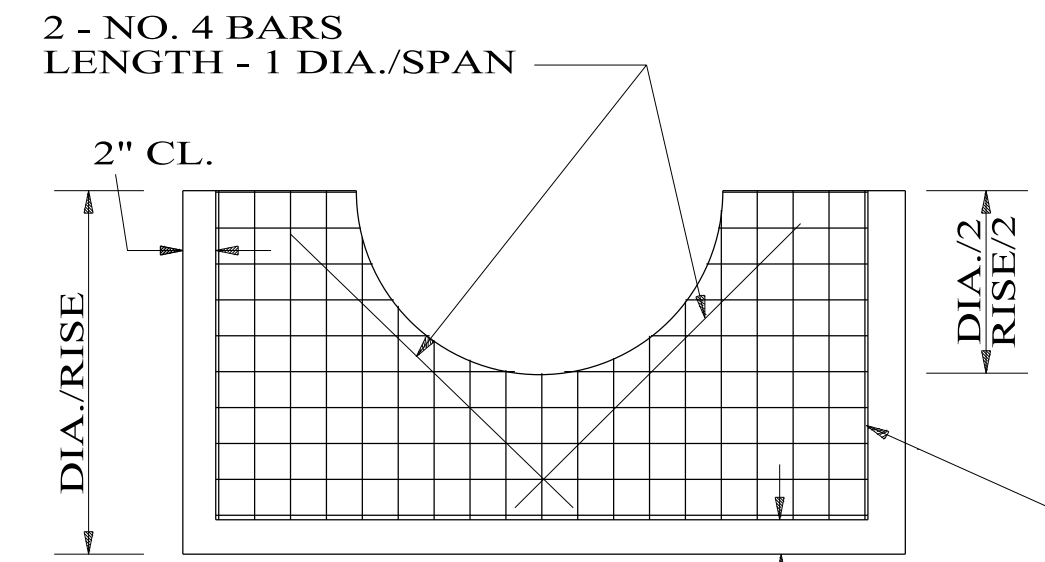
DESIGN BUREAU SPECIAL DRAWING
BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (CMP AND RCP)

SPECIAL DRAWING NO.
RPC-530 (SHEET 2 OF 3)

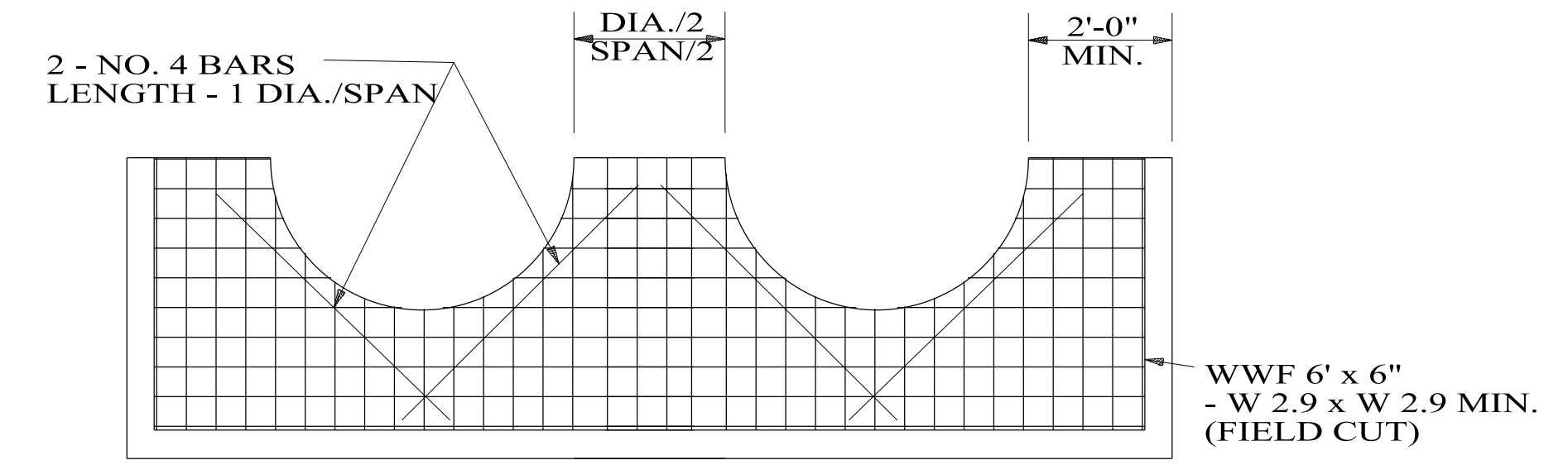
INDEX NO.
53005



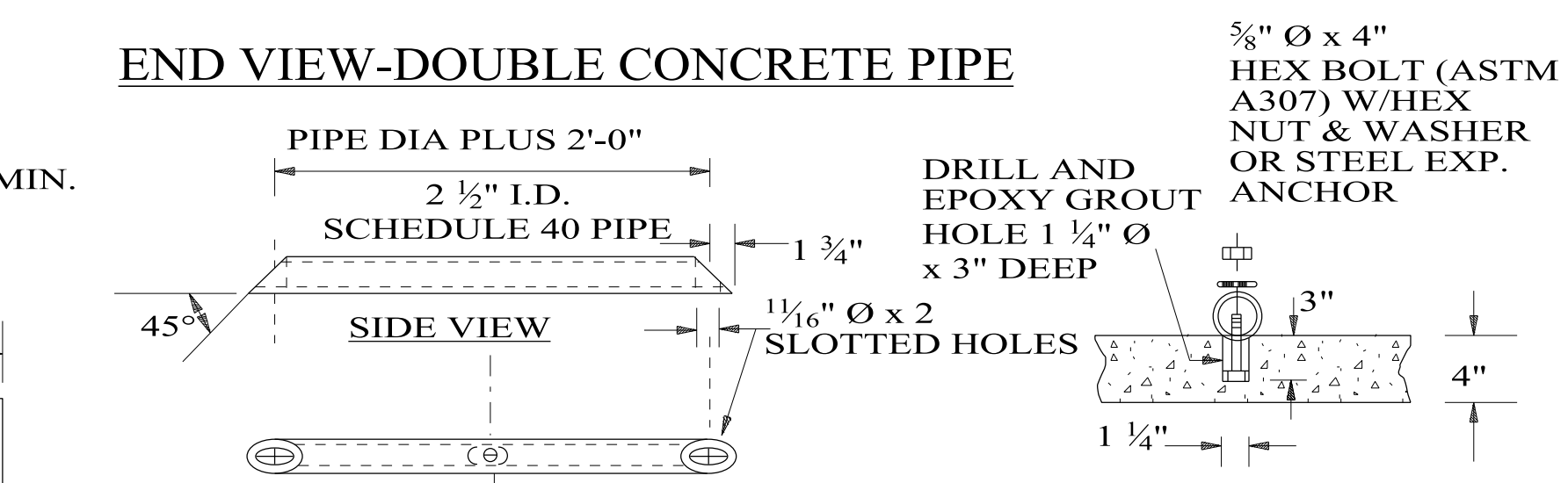
END VIEW-METAL PIPE
WWF 6" x 6" - W2.9 x W2.9 MIN. (FIELD CUT)



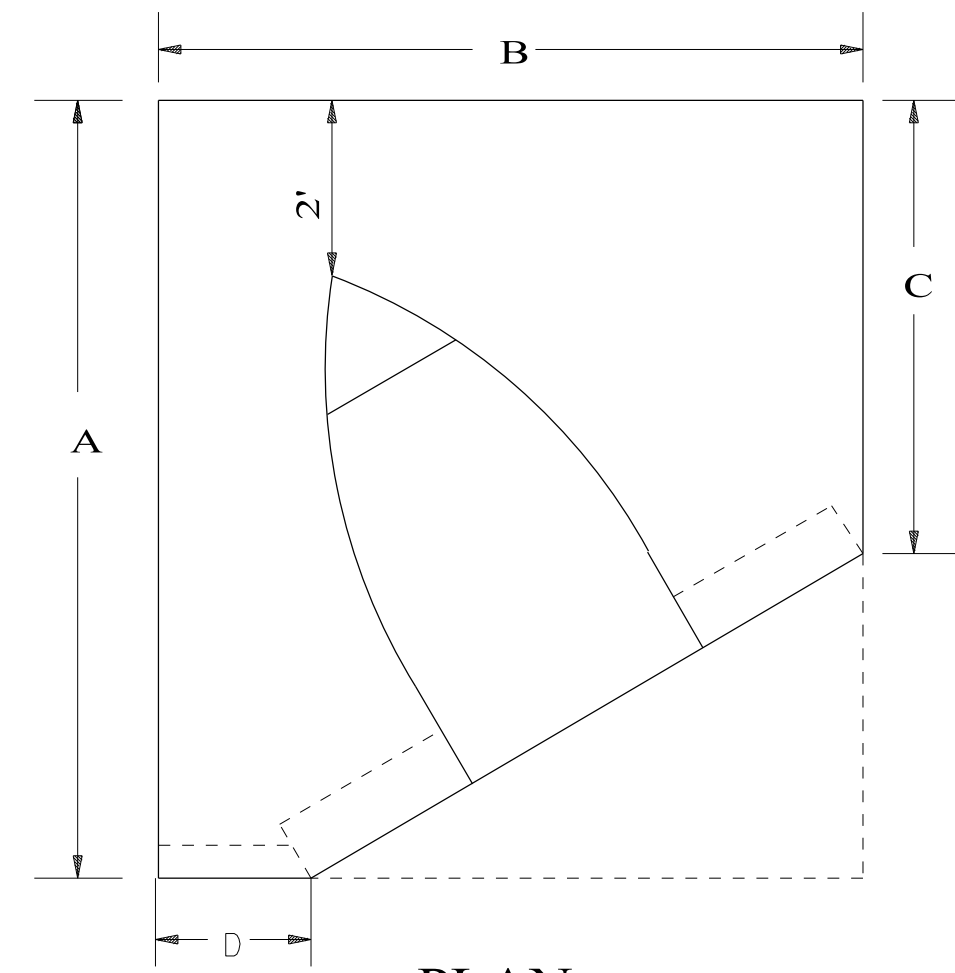
END VIEW-CONCRETE PIPE
WWF 6" x 6" - W 2.9 x W2.9 MIN. (FIELD CUT)



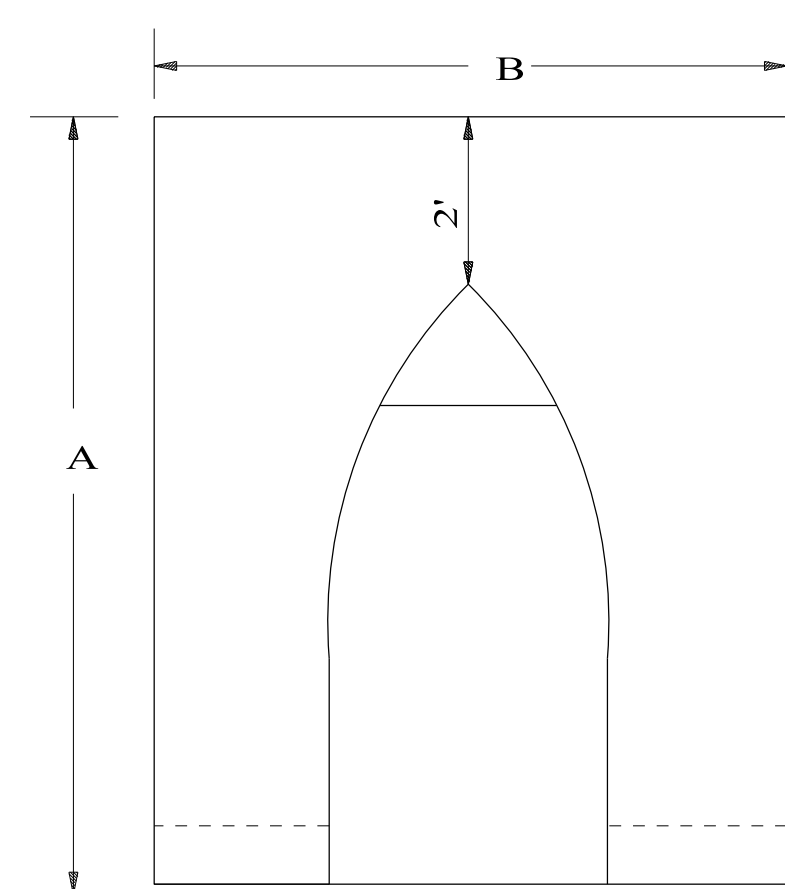
END VIEW-DOUBLE CONCRETE PIPE
WWF 6" x 6" - W 2.9 x W 2.9 MIN. (FIELD CUT)



PIPE DETAIL
TOP 2" Ø DRILLED HOLES, BOTTOM 1 1/16" x 2" SLOT (DOUBLE LINE ONLY)
* 2.5 x DIA PLUS 2'-0" FOR DOUBLE LINE.



PLAN ON SKEW



PLAN NO SKEW

GENERAL NOTES

1. THE FILL SHALL BE PLACED AND FINISHED AND ALL SHORING REMOVED BEFORE ANY CONCRETE SHALL BE PLACED ON SLOPES.
2. QUANTITIES SHOWN INCLUDES TWO (2) COMPLETE HEADWALLS.
3. WHERE 6:1 FRONT SLOPES ARE REQUIRED, THEY SHALL BE WARPED TO FIT 4:1 INSTALLATION.
4. 8" THICK END WALL SHALL BE PERPENDICULAR TO FLOW LINE. WARP AND DRESS ADJACENT FILL TO FIT SKEWED CONDITIONS. EDGES OF PAVING PLACED UPON FRONT SLOPE SHALL BE PARALLEL TO SLOPE LINE.
5. DETAIL AND QUANTITIES SHOWN ON THIS DRAWING APPLIES TO REINFORCED CONCRETE AND CORRUGATED METAL PIPES.
6. SLOPED PAVED HEADWALL WITHOUT GRATE SHALL BE CLASS 1, HEAD WALL WITH GRATE SHALL BE CLASS 2.
7. A 24" PIPE WITH GREATER THAN A 30° SKEW AND 30" OR GREATER IN DIAMETER SHALL HAVE A CLASS 2 END TREATMENT WHEN TERMINATED WITHIN THE CLEAR ZONE.
8. ADDITIONAL 4" THICK TOEWALL 12" DEEP WILL BE REQUIRED ON 30° AND 45° SKEW. SEE DIMENSION "D" ON PLAN VIEW.

DIMENSIONS AND QUANTITIES TABLES FOR ROUND PIPE

PIPE DIA	ROUND PIPE	0° SKEW												15° SKEW												30° SKEW												45° SKEW																	
		2:1 SLOPE				3:1 SLOPE				4:1 SLOPE				2:1 SLOPE				3:1 SLOPE				4:1 SLOPE				2:1 SLOPE				3:1 SLOPE				4:1 SLOPE																					
		A	B	CU YD CONC		A	B	CU YD CONC		A	B	CU YD CONC		A	B	C	D	CU YD CONC	A	B	C	D	CU YD CONC	A	B	C	D	CU YD CONC	A	B	C	D	CU YD CONC	A	B	C	D	CU YD CONC	A	B	C	D	CU YD CONC												
15"	SINGLE DOUBLE	3'-5" 3'-5"	5'-3" 7'-2"	.4 .5	4'-0" 4'-0"	5'-3" 7'-2"	.4 .5	4'-7" 4'-7"	5'-3" 7'-2"	.4 .6	4'-1" 4'-7"	5'-5" 7'-3"	2'-9" 2'-9"	5" 5"	.4 .5	4'-8" 5'-2"	5'-7" 7'-5"	3'-4" 3'-4"	7" 7"	.4 .6	5'-3" 5'-9"	5'-9" 7'-7"	3'-11" 3'-11"	9" 9"	.5 .6	4'-9" 5'-8"	5'-4" 7'-0"	2'-1" 2'-1"	10" 10"	.4 .5	5'-3" 6'-3"	5'-8" 7'-4"	2'-8" 2'-8"	1'-2" 1'-2"	.4 .6	5'-11" 6'-10"	6'-0" 7'-8"	3'-4" 3'-4"	1'-6" 1'-6"	.5 .7	5'-3" 6'-7"	5'-11" 6'-6"	1'-7" 1'-7"	1'-5" 1'-5"	.4 .6	5'-10" 7'-11"	5'-8" 7'-11"	2'-2" 2'-2"	2'-0" 2'-0"	.5 .6	6'-5" 7'-10"	6'-3" 7'-8"	2'-9" 2'-9"	2'-7" 2'-7"	.5 .7

GRATE FABRICATION TABLES

ROUND ROADWAY PIPE						ROADWAY PIPE GRATE			ROUND ROADWAY PIPE						ROADWAY PIPE GRATE		
DIA	SKEW	SLOPE	"X"	"L" PIPE	"T" PIPE	DIA.	SKEW	SLOPE	"X"	"L" PIPE	"T" PIPE	DIA.	SKEW	SLOPE	"X"	"L" PIPE	"T" PIPE
36"	0°	3:1	8'-6"	2 @ 12" OC	3	48"	0°	4:1	15'-2"	2 @ 16" OC	3	48"	0°	4:1	15'-2"	2 @ 16" OC	3

DIMENSIONS AND QUANTITIES TABLES FOR ARCH PIPE

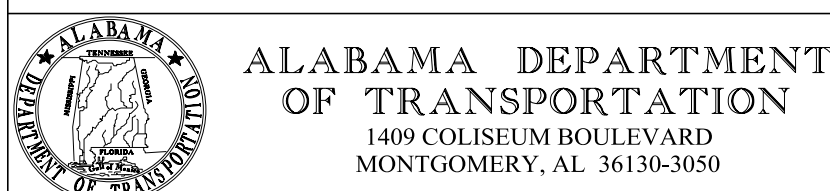
PIPE SIZE	ARCH PIPE	EQUIVALENT ROUND PIPE	0° SKEW					15° SKEW					30° SKEW					45° SKEW				
			4:1 SLOPE					4:1 SLOPE					4:1 SLOPE					4:1 SLOPE				
			A	B	CU YD CONC			A	B	C	D	CU YD CONC	A	B	C	D	CU YD CONC	A	B	C	D	CU YD CONC
1'-6" x 11"	SINGLE DOUBLE	15"	6'-1" 6'-1"	5'-6" 7'-9"	.5 .6	6'-9" 8'-7"	6'-5" 5'-4"	5'-4" 1'-1"	.6 .8	7'-5" 8'-7"	7'-1" 9'-0"	4'-8" 4'-8"	2'-4" 2'-4"	.7 .8	8'-0" 9'-7"	7'-11" 9'-7"	4'-1" 4'-1"	4'-1" 4'-1"	.8 .9			

GRATE FABRICATION TABLES

ARCH ROADWAY PIPE						ROADWAY PIPE GRATE		
SPAN-RISE	SKEW	SLOPE	"X"	"L" PIPE	"T" PIPE	DIA.	SKEW	SLOPE
3'-7" x 2'-3"	0°	4:1	7'-0"	2 @ 14" OC	3	48"	0°	4:1

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION



ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

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REVISIONS:
1. Added to CADD on 5-28-1999 by J.F.T
2. Corrected various numbers in the charts on 3-28-2006 by J.F.T

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 6-7-1990
REVISED DATE: 3-28-2006

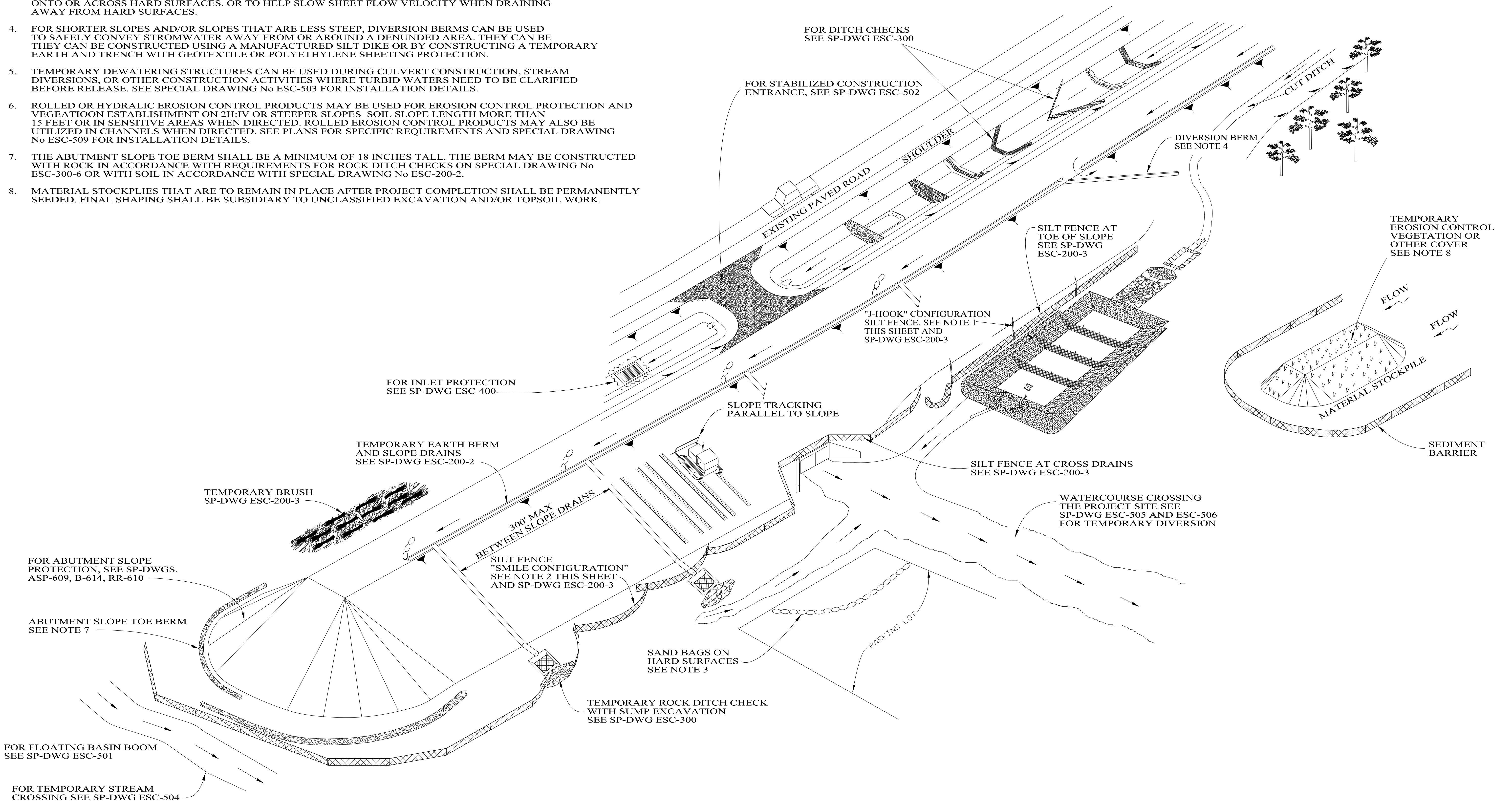
DESIGN BUREAU SPECIAL DRAWING
SLOPE PAVED HEADWALL DETAILS FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE

SPECIAL DRAWING NO
HW-614-B (SHEET 2 OF 2)

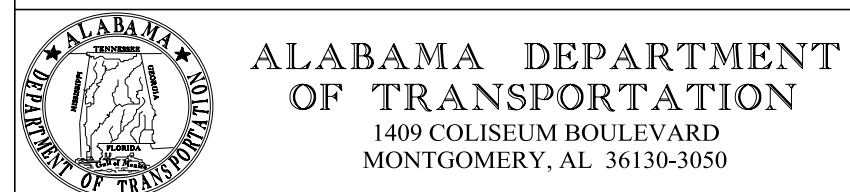
INDEX NO
61910

NOTES:

1. "J HOOK" CONFIGURATION SILT FENCE APPLICATIONS ARE TO BE USED IN CONJUNCTION WITH PERIMETER SILT FENCE WHEN STORMWATER RUNOFF IS IN TWO DIRECTIONS (DOWN A FILL SLOPE AND DOWN GRADIENT ALONG THE RIGHT-OF-WAY).
2. "SMILE CONFIGURATION" APPLICATIONS ARE TO BE USED AS PERIMETER SILT FENCE WHEN THERE IS ONE-DIRECTIONAL FLOW DOWN A SLOPE.
3. SAND BAGS CAN BE USED AS DIVERSION BERMS TO PREVENT SEDIMENT FROM BEING WASHED ONTO OR ACROSS HARD SURFACES. OR TO HELP SLOW SHEET FLOW VELOCITY WHEN DRAINING AWAY FROM HARD SURFACES.
4. FOR SHORTER SLOPES AND/OR SLOPES THAT ARE LESS STEEP, DIVERSION BERMS CAN BE USED TO SAFELY CONVEY STORMWATER AWAY FROM OR AROUND A DENUNDED AREA. THEY CAN BE CONSTRUCTED USING A MANUFACTURED SILT DIKE OR BY CONSTRUCTING A TEMPORARY EARTH AND TRENCH WITH GEOTEXTILE OR POLYETHYLENE SHEETING PROTECTION.
5. TEMPORARY DEWATERING STRUCTURES CAN BE USED DURING CULVERT CONSTRUCTION, STREAM DIVERSIONS, OR OTHER CONSTRUCTION ACTIVITIES WHERE TURBID WATERS NEED TO BE CLARIFIED BEFORE RELEASE. SEE SPECIAL DRAWING No ESC-503 FOR INSTALLATION DETAILS.
6. ROLLED OR HYDRALIC EROSION CONTROL PRODUCTS MAY BE USED FOR EROSION CONTROL PROTECTION AND VEGETATION ESTABLISHMENT ON 2H:1V OR STEEPER SLOPES SOIL SLOPE LENGTH MORE THAN 15 FEET OR IN SENSITIVE AREAS WHEN DIRECTED. ROLLED EROSION CONTROL PRODUCTS MAY ALSO BE UTILIZED IN CHANNELS WHEN DIRECTED. SEE PLANS FOR SPECIFIC REQUIREMENTS AND SPECIAL DRAWING No ESC-509 FOR INSTALLATION DETAILS.
7. THE ABUTMENT SLOPE TOE BERM SHALL BE A MINIMUM OF 18 INCHES TALL. THE BERM MAY BE CONSTRUCTED WITH ROCK IN ACCORDANCE WITH REQUIREMENTS FOR ROCK DITCH CHECKS ON SPECIAL DRAWING No ESC-300-6 OR WITH SOIL IN ACCORDANCE WITH SPECIAL DRAWING No ESC-200-2.
8. MATERIAL STOCKPILES THAT ARE TO REMAIN IN PLACE AFTER PROJECT COMPLETION SHALL BE PERMANENTLY SEEDED. FINAL SHAPING SHALL BE SUBSIDIARY TO UNCLASSIFIED EXCAVATION AND/OR TOPSOIL WORK.



NOT TO SCALE



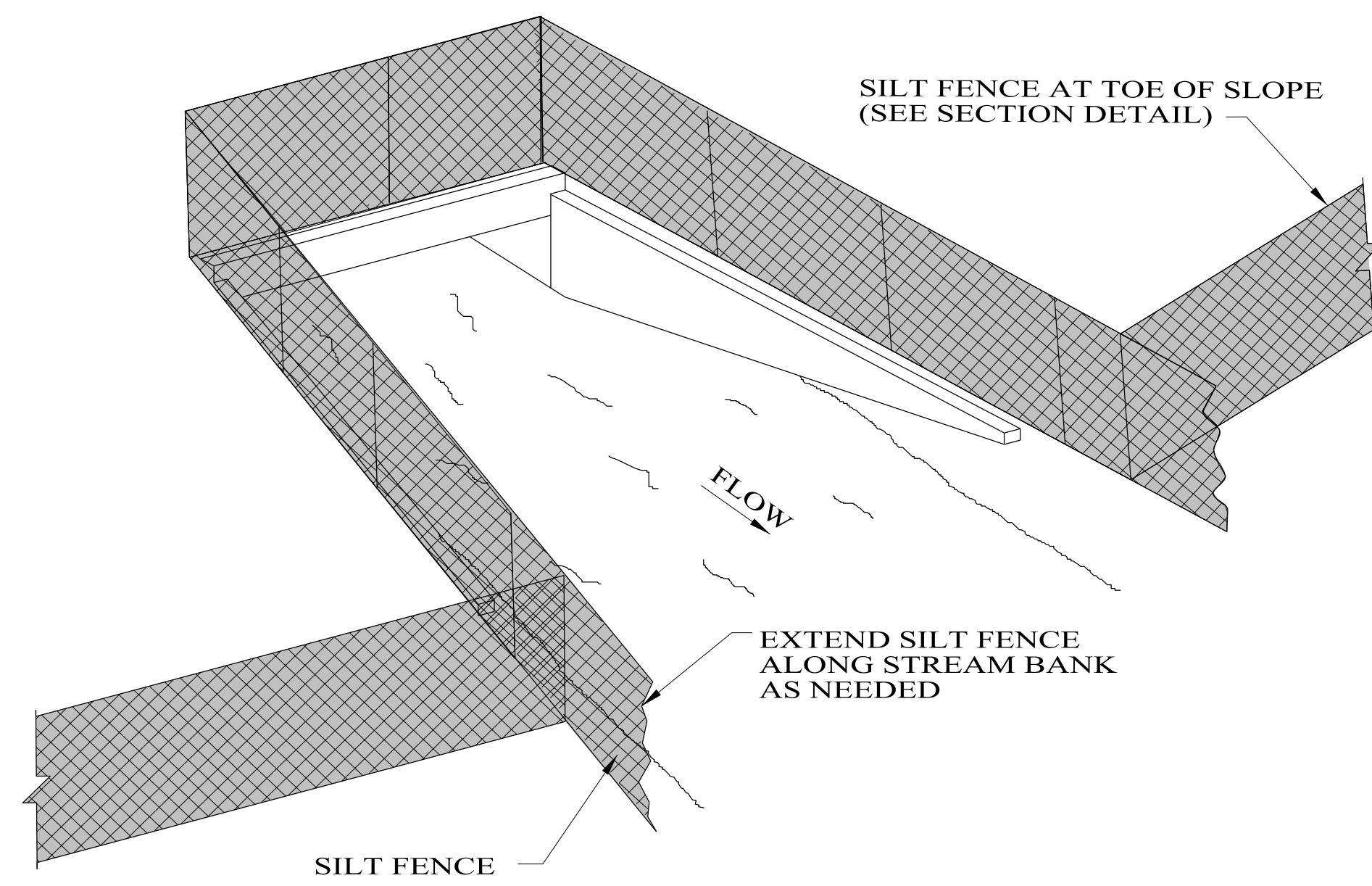
THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

REVISIONS:
 1. Revised Note 6 and added Note 8 & "TEMPORARY SEDIMENTATION BASIN". Attached "SEE SP-DWG ESC-400" to "FOR INLET PROTECTION" on 8-23-2011 by J.F.T.
 2. Revised Note 6 and Adjusted graphics of "TEMPORARY ROCK DITCH CHECK" on 10-20-2014 by J.F.T.
 3. Revised Note 7 from "SHEET 2 OF 4" to "SHEET 2 OF 5" on 8-10-2016 by J.F.T.
 4. Updated Special Drawing No. from ESC-200 (SHEET 1 OF 5) to ESC-200-1 and others using same pattern on 10-31-2016 by J.F.T. & J.M.M.
 5. Moved the stockpile details further from the stream on 7-13-2021 by D.J.W.

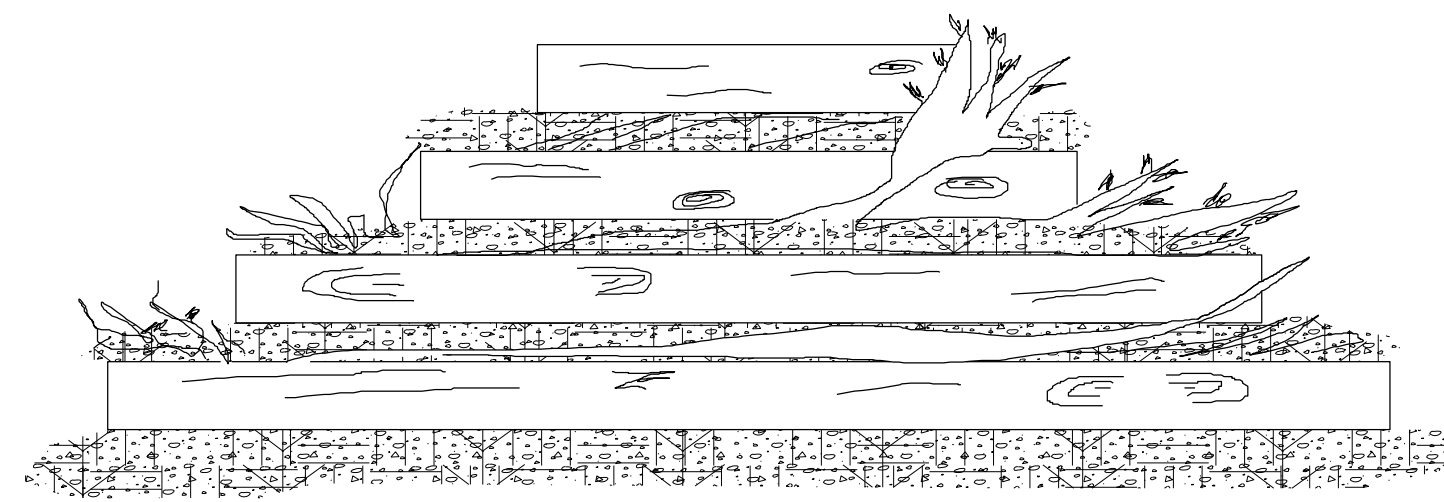
Bureau Std Engr: D.J.W.
 DRAWN BY:
 DATE DRAWN: 2006
 REVISED DATE: 7-13-2021

DESIGN BUREAU SPECIAL DRAWING
 TYPICAL TEMPORARY EROSION/
 SEDIMENT CONTROL APPLICATIONS

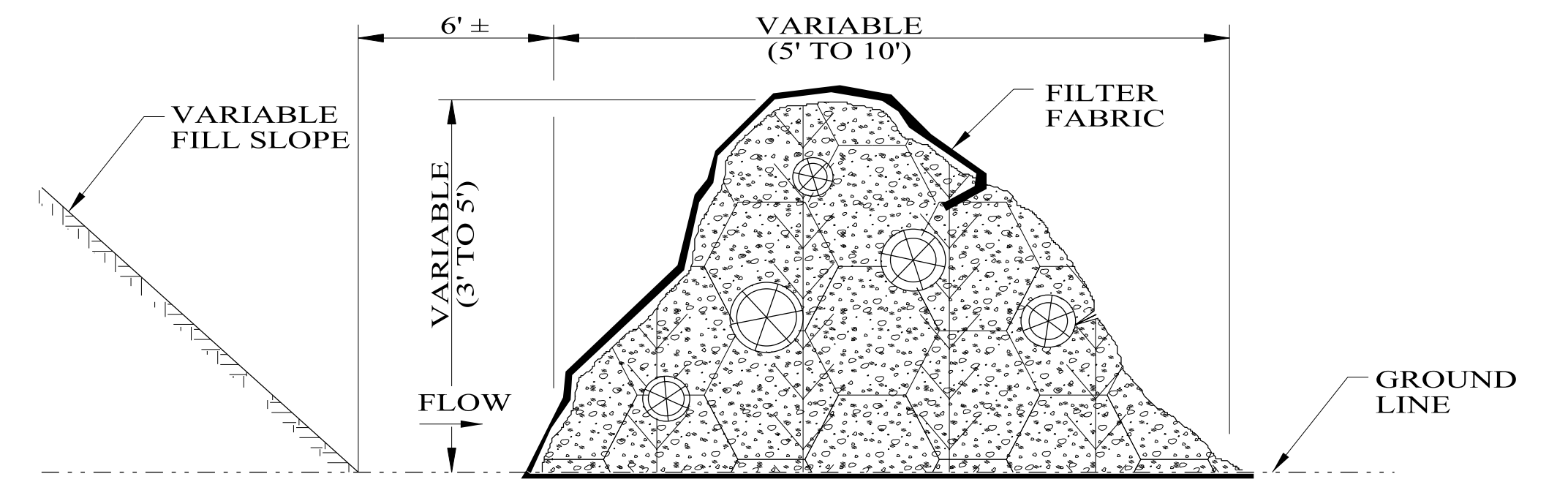
--SPECIFICATIONS--	
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION	
SPECIAL DRAWING NO	INDEX NO
ESC-200-1	66505



SEDIMENT BARRIER AT CROSS DRAIN



REAR ELEVATION



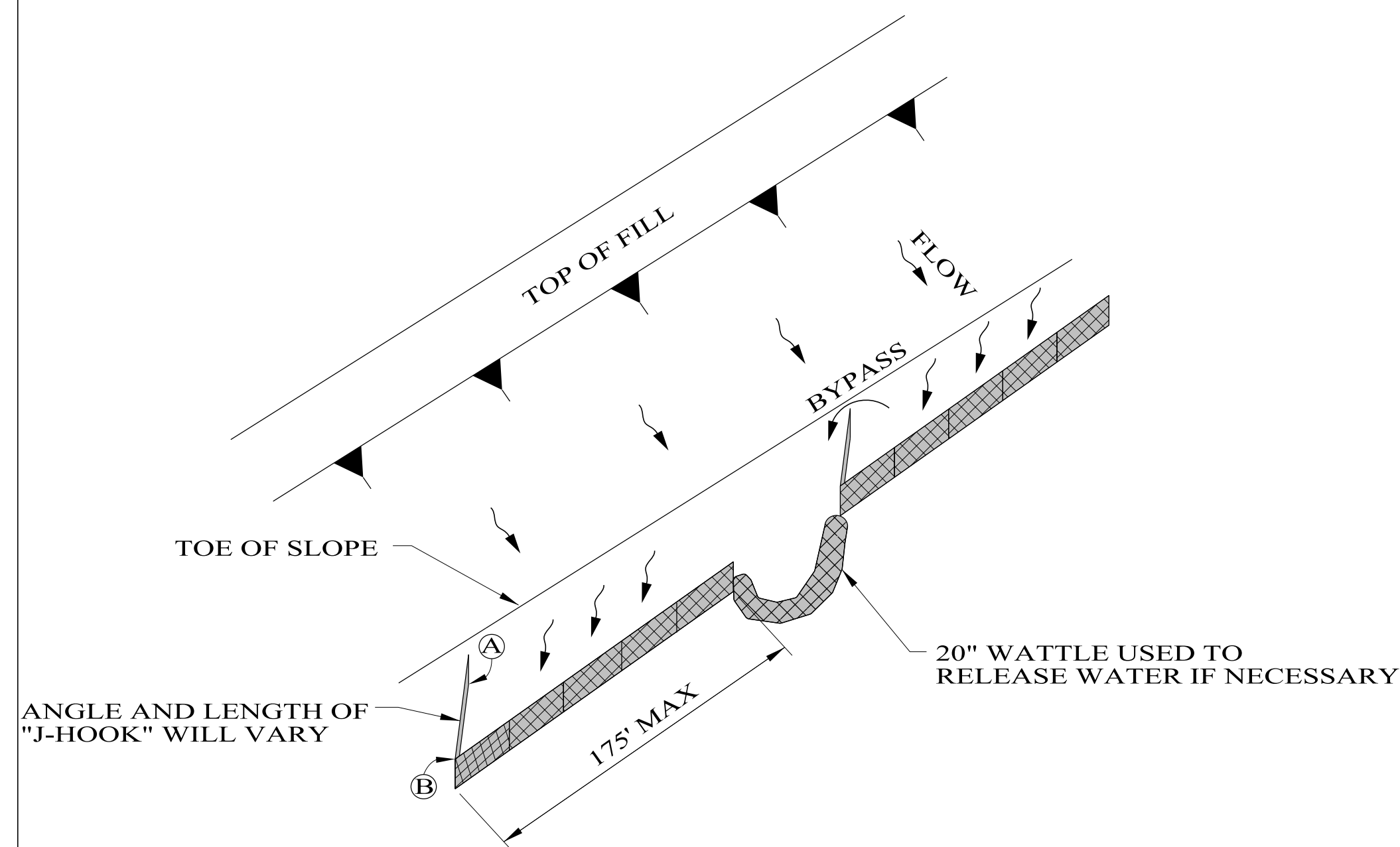
SIDE ELEVATION

TEMPORARY BRUSH BARRIER

NOTES:

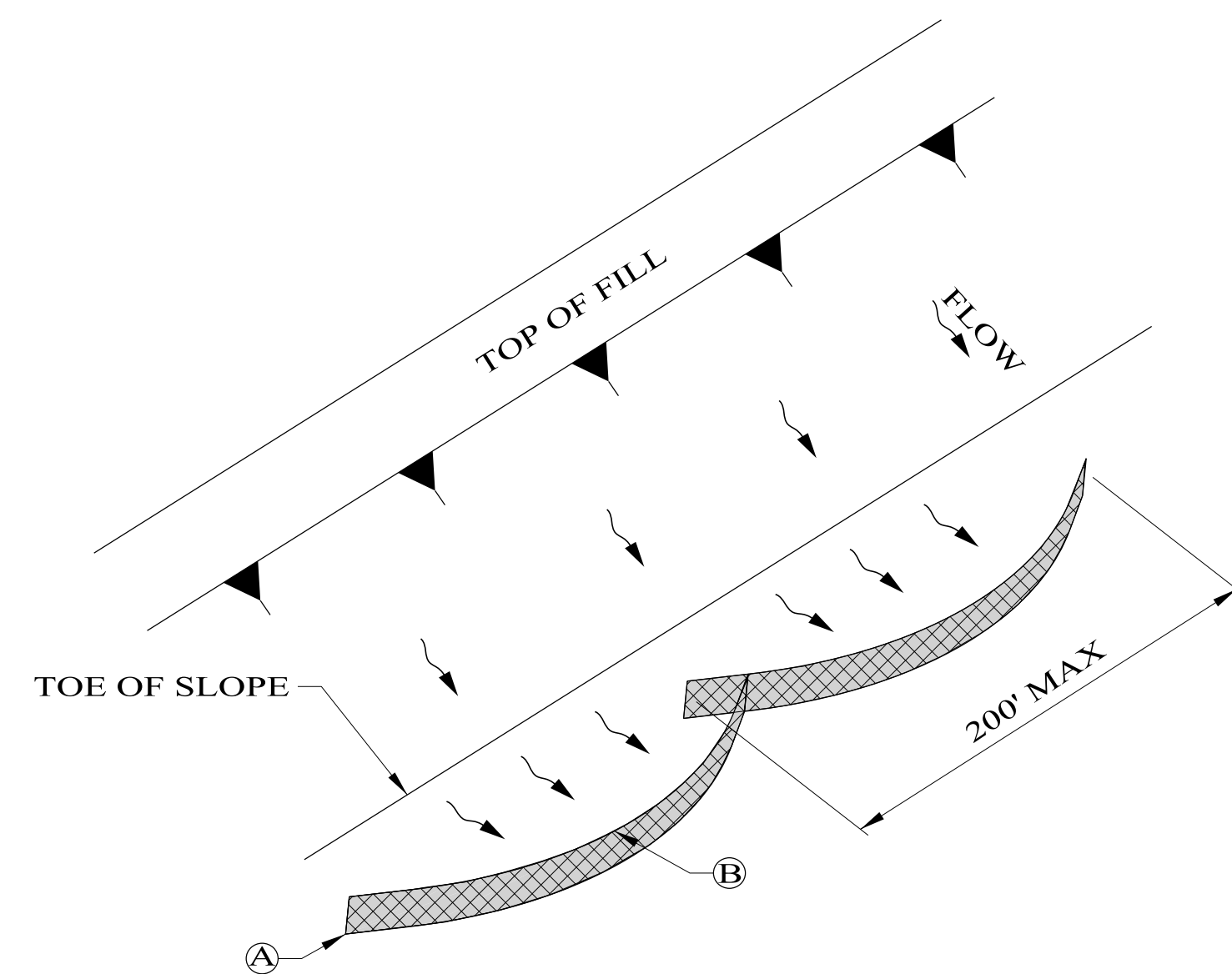
- BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
- PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED OR PERMITTED BY THE ENGINEER.
- TO ALLOW WATER TO SEEP THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.
- THE BRUSH BARRIER SHALL BE CHOKED WITH FILTER FABRIC.

NOTE: ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON SPECIAL DRAWING No. ESC-200-4.



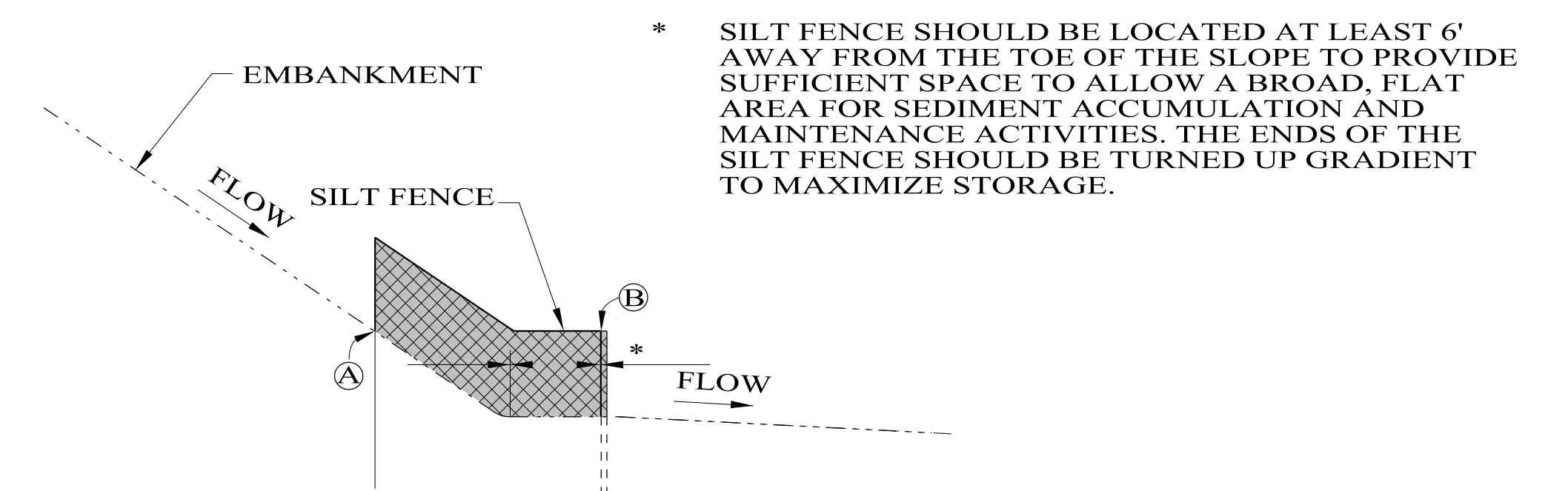
"J-HOOK" SILT FENCE APPLICATION

NOTE: THE ELEVATION AT THE BOTTOM OF THE DISTANT END OF THE J-HOOK (A) SHOULD BE THE SAME AS THE LOWEST POINT ALONG THE TOP OF SILT FENCE (B).



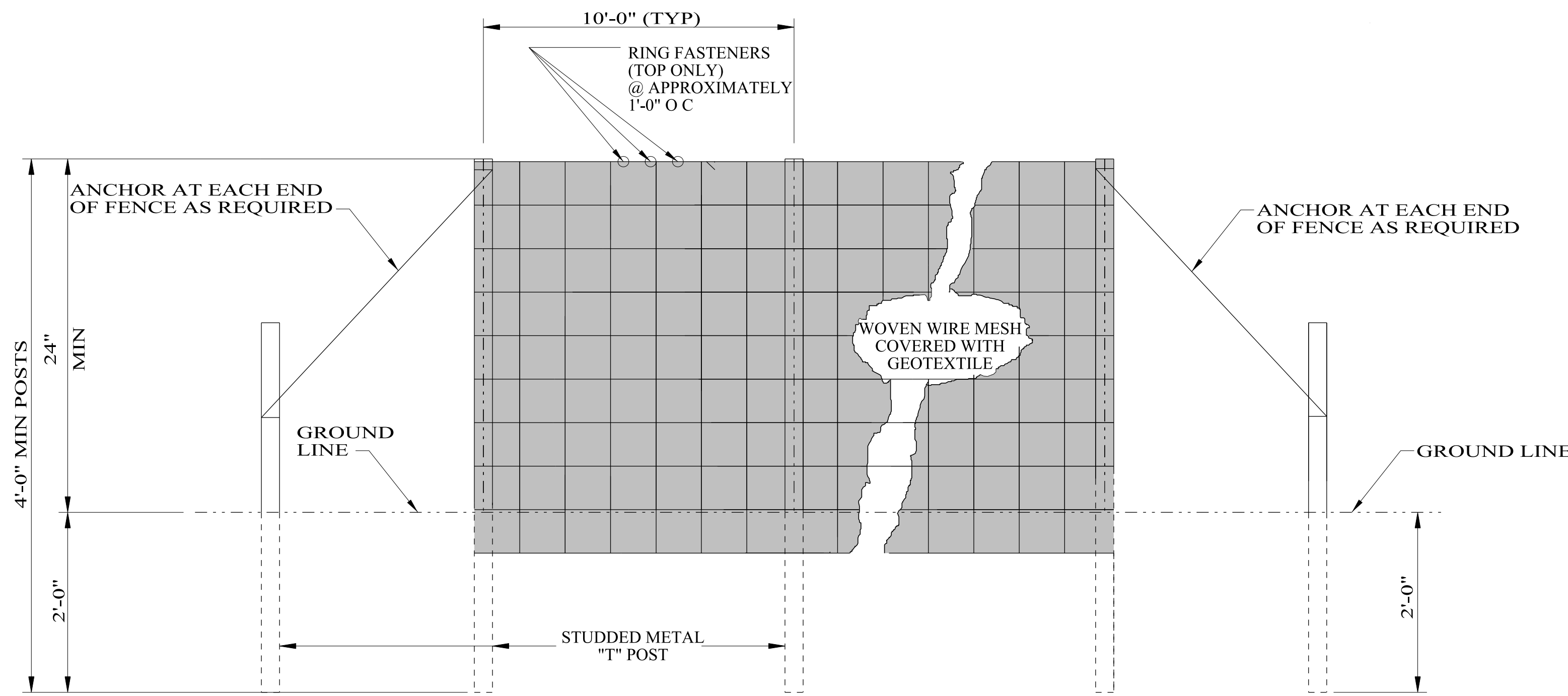
"SMILE-CONFIGURATION" SILT FENCE APPLICATION

NOTE: EL (A) = EL (B) TO MAXIMIZE STORAGE.

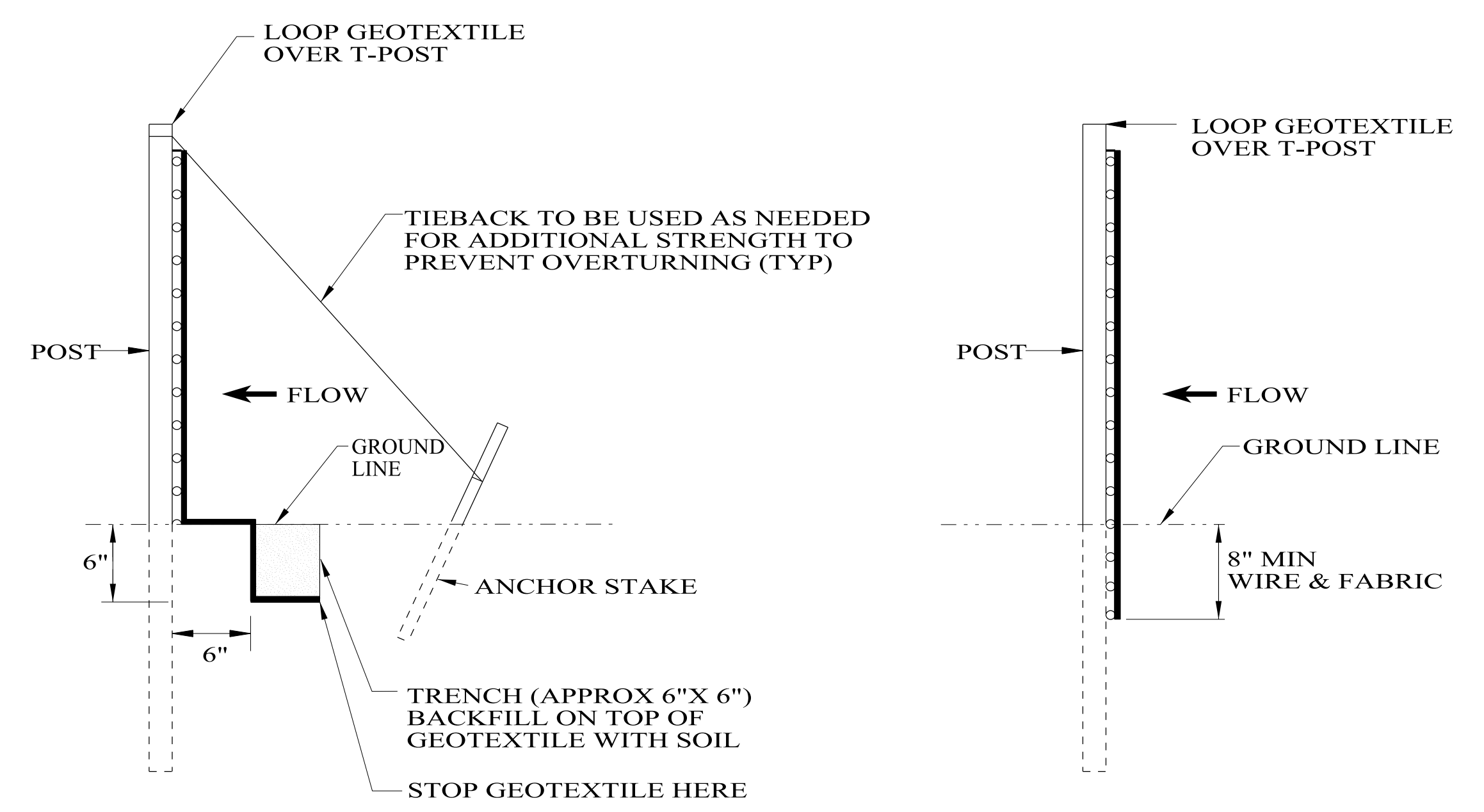


SILT FENCE SECTION AT TOE OF SLOPE

NOT TO SCALE



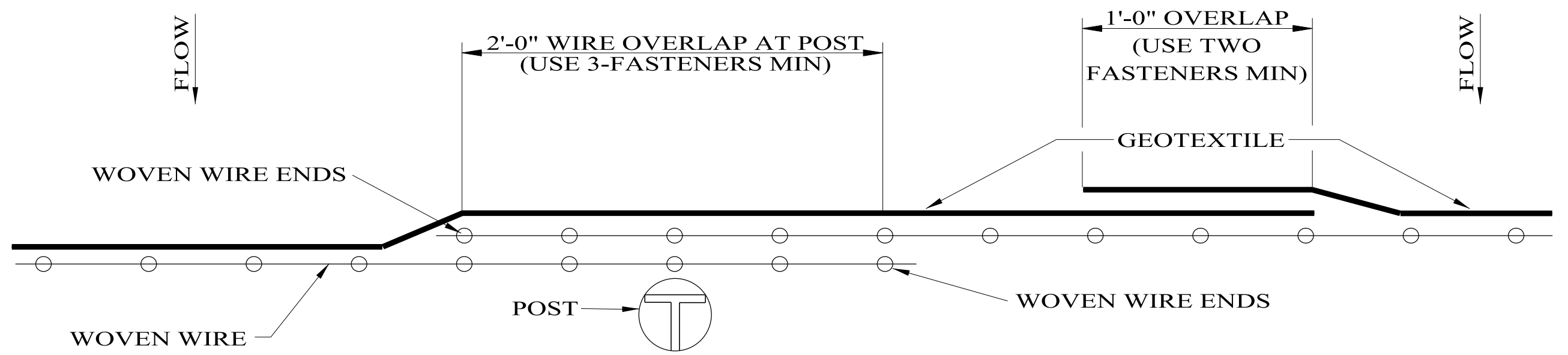
ELEVATION VIEW



METHOD I

METHOD II
MECHANICAL INSTALLATION

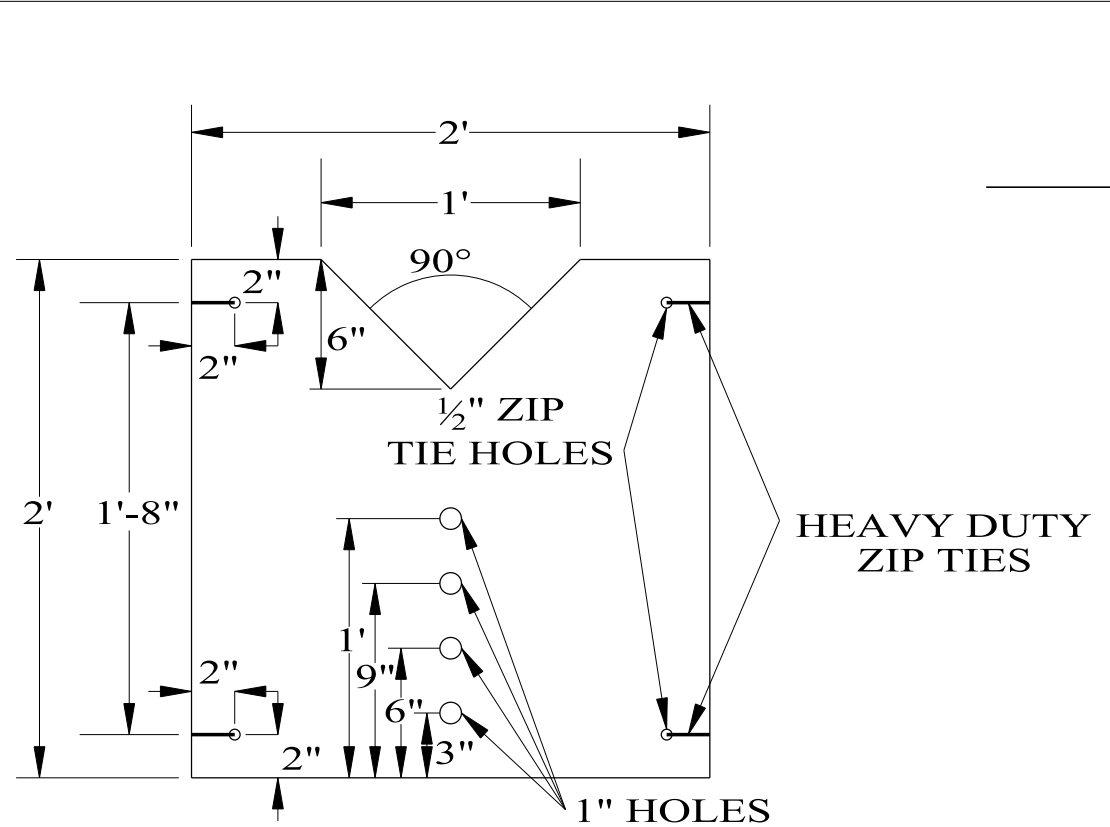
SIDE VIEW



PLAN VIEW

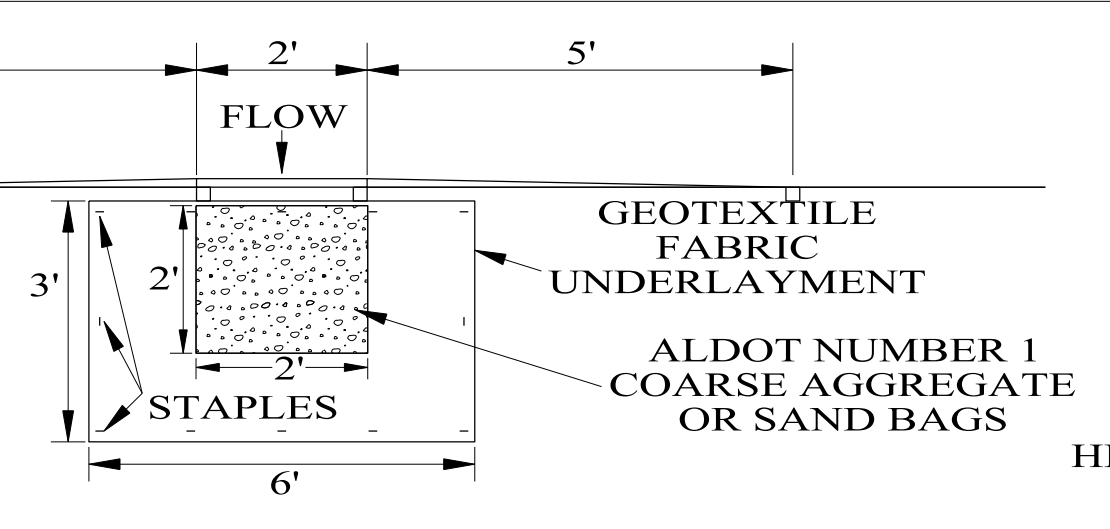
REQUIRED LAPPING

- NOTES:
- METHOD II FENCE INSTALLATION ALSO TO INCLUDE ANCHORS AND TIEBACKS AS REQUIRED.
 - SILT FENCE SHALL BE USED IN AREAS WHERE FLOW IS LOW TO MODERATE OR AS DIRECTED BY THE ENGINEER.
 - SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED DOWN GRADE OF ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
 - SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR ADDITIONAL BEST MANAGEMENT PRACTICES SUCH AS VEGETATED BUFFERS.
 - WHEREVER POSSIBLE SILT FENCES SHALL BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATE SEDIMENTATION.
 - FOR AREAS OF CONCENTRATED IMPOUNDMENT, T-POST SPACING SHOULD BE REDUCED TO 5 FT WITH THE INCORPORATION OF A DEWATERING WEIR.
 - THE CONTRACTOR MAY ELECT TO USE EITHER INSTALLATION METHOD I OR METHOD II.
 - METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
 - SEE ALDOT LIST II-3 FOR APPROVED SILT FENCE GEOTEXTILES.
 - THE DEWATERING WEIR AND ALL ASSOCIATED ITEMS AND LABOR SHALL BE A SUBSIDIARY OBLIGATION OF THE SILT FENCE.

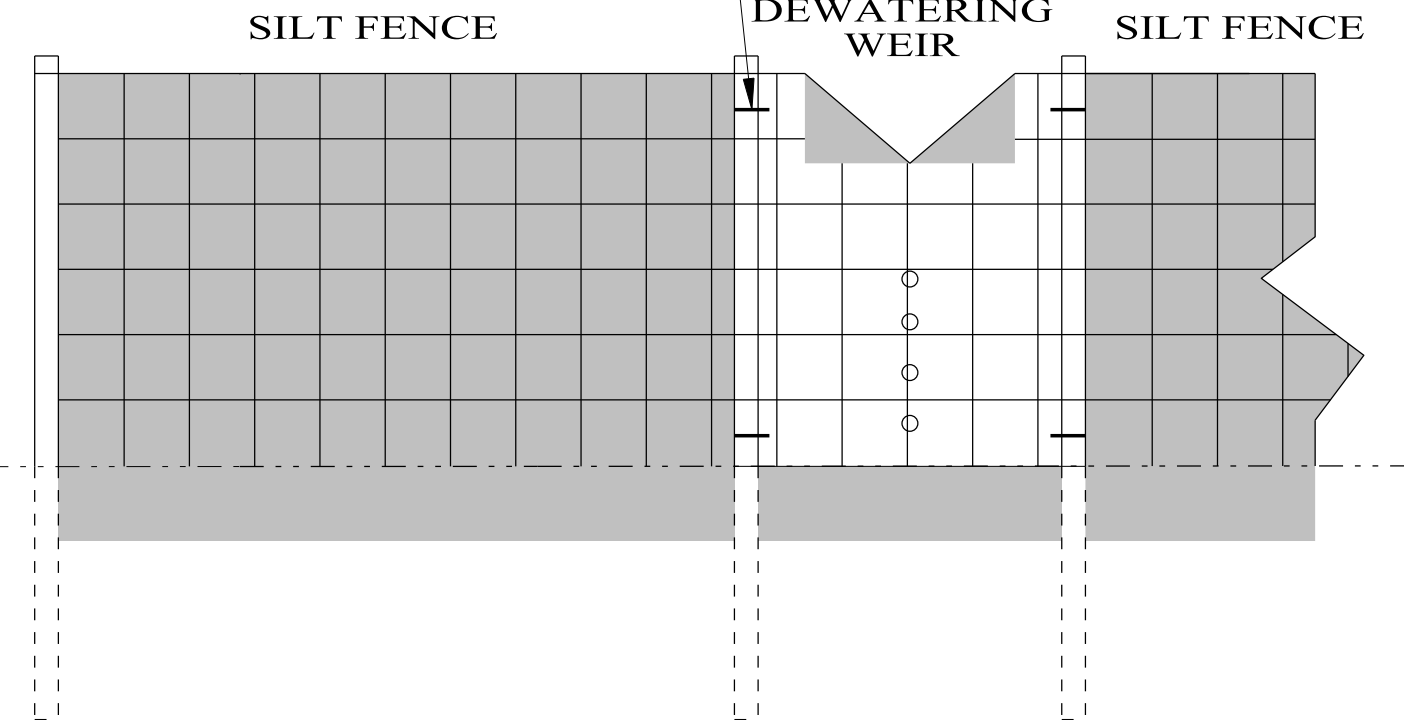


WEIR DETAIL
CONSTRUCTED OF 3/4" PLYWOOD

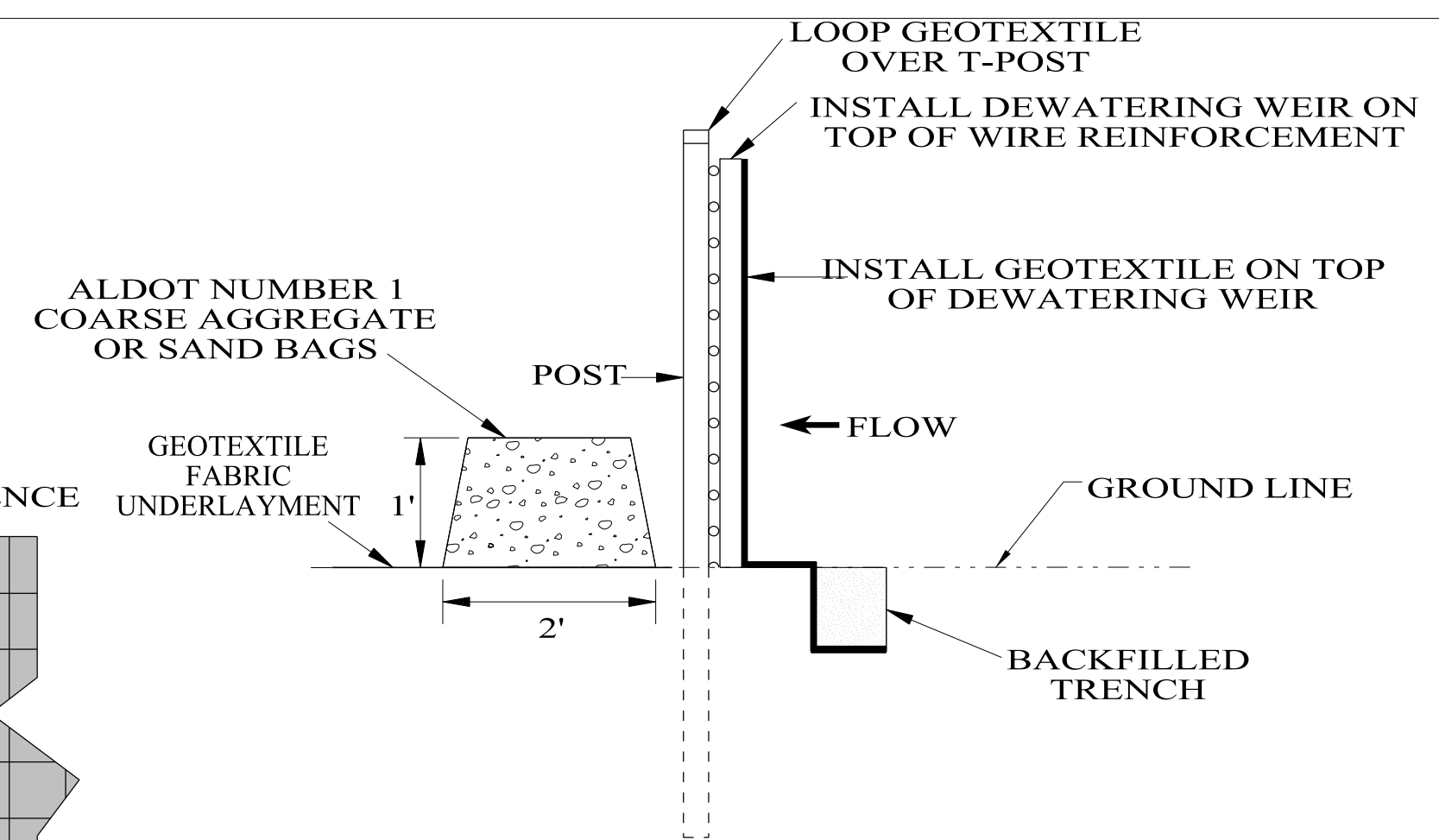
DEWATERING WEIR



PLAN VIEW

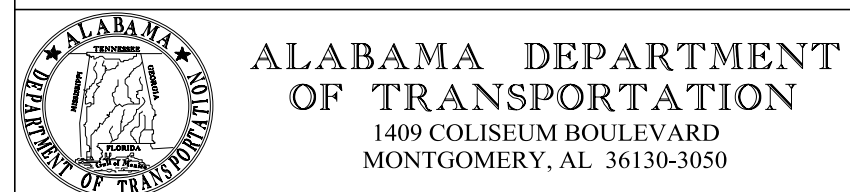


ELEVATION (DOWNSTREAM) VIEW



SIDE VIEW

NOT TO SCALE



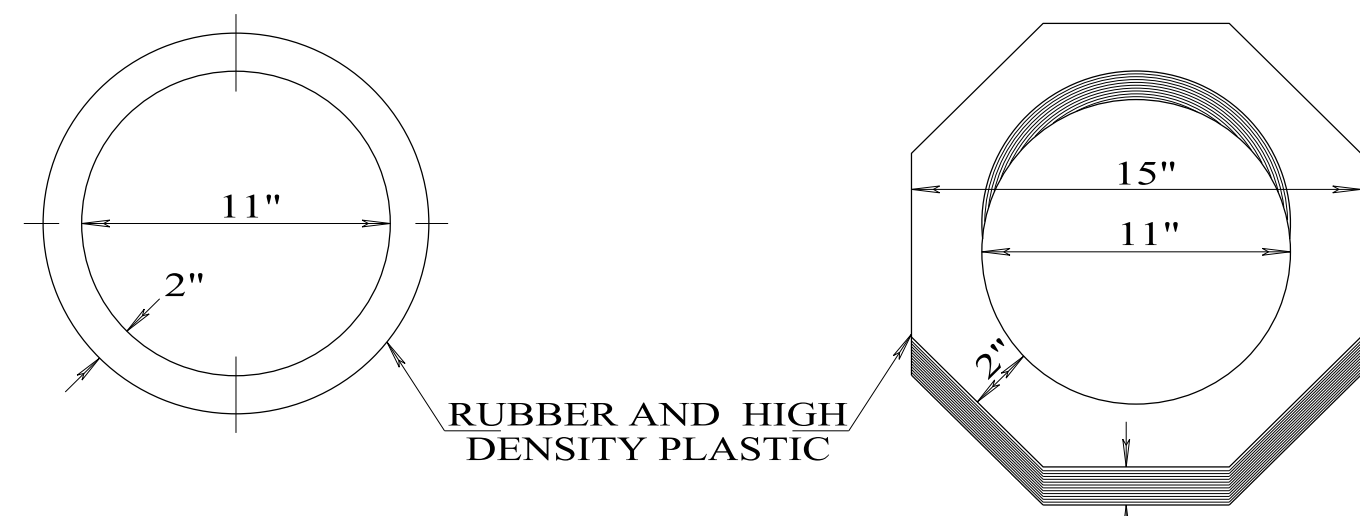
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REVISIONS:
 1. Revised Fence height and deleted (Type A) from the Silt Fence description on 7-12-2007 by W.W.A.
 2. Revised Notes 2, 3, 4, 6 and added 8 on 8-24-2011 by J.F.T.
 3. Updated Special Drawing No. from ESC-200 (SHEET 4 OF 5) to ESC-200-4 on 10-31-2016 by J.F.T. AND J.M.M.
 4. Revised Elevation View and Method I view. Added new Note 6 and renumbered rest accordingly. Added dewatering weir and installation details on 9-2-2020 by D.J.W.

Bureau Std Engr: D.J.W.
 DRAWN BY:
 DATE DRAWN: 2006
 REVISED DATE: 9-2-2020

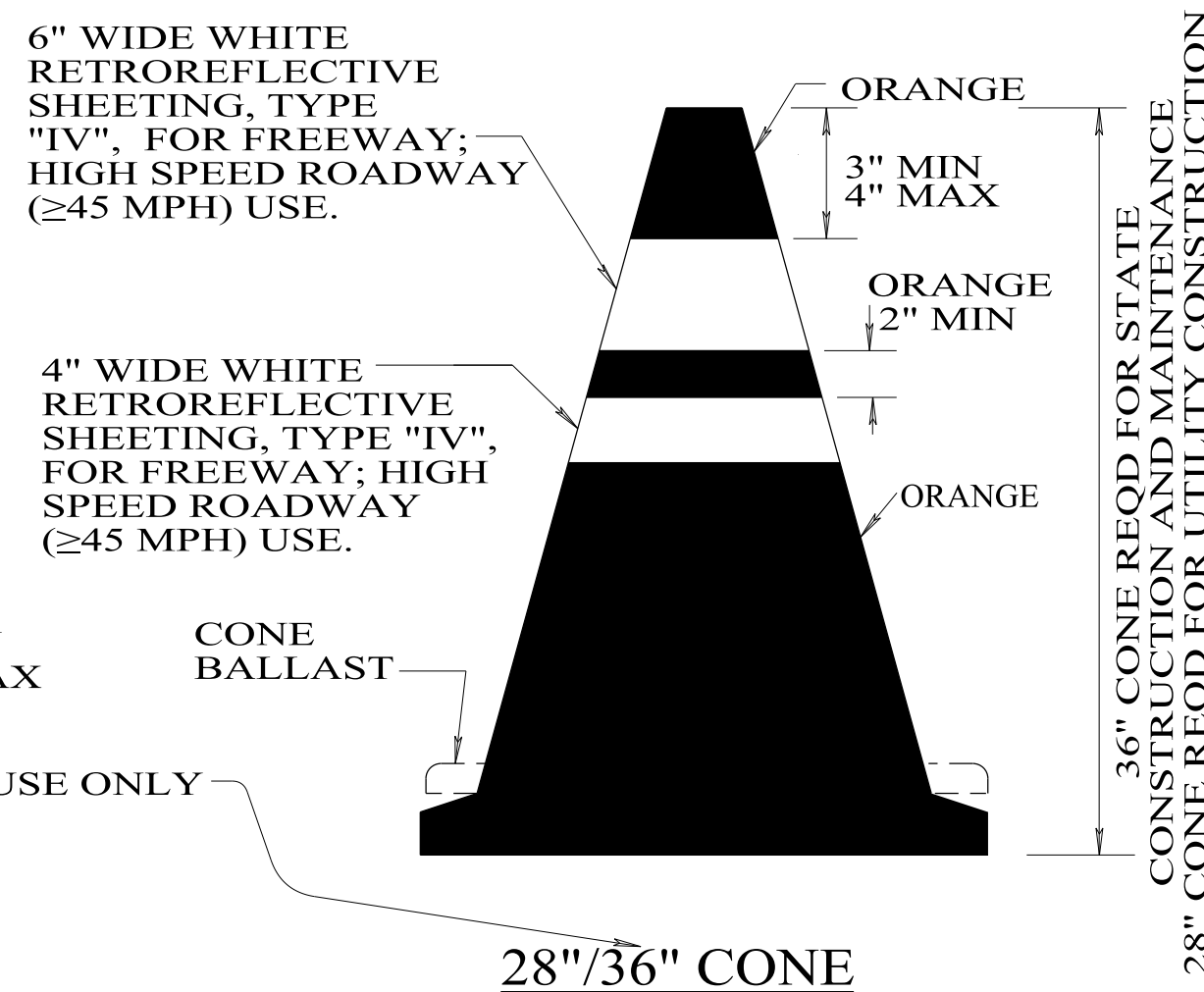
DESIGN BUREAU SPECIAL DRAWING
 DETAILS OF SILT FENCE INSTALLATION

--SPECIFICATIONS-- CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION		INDEX NO
SPECIAL DRAWING NO	ESC-200-4	66508



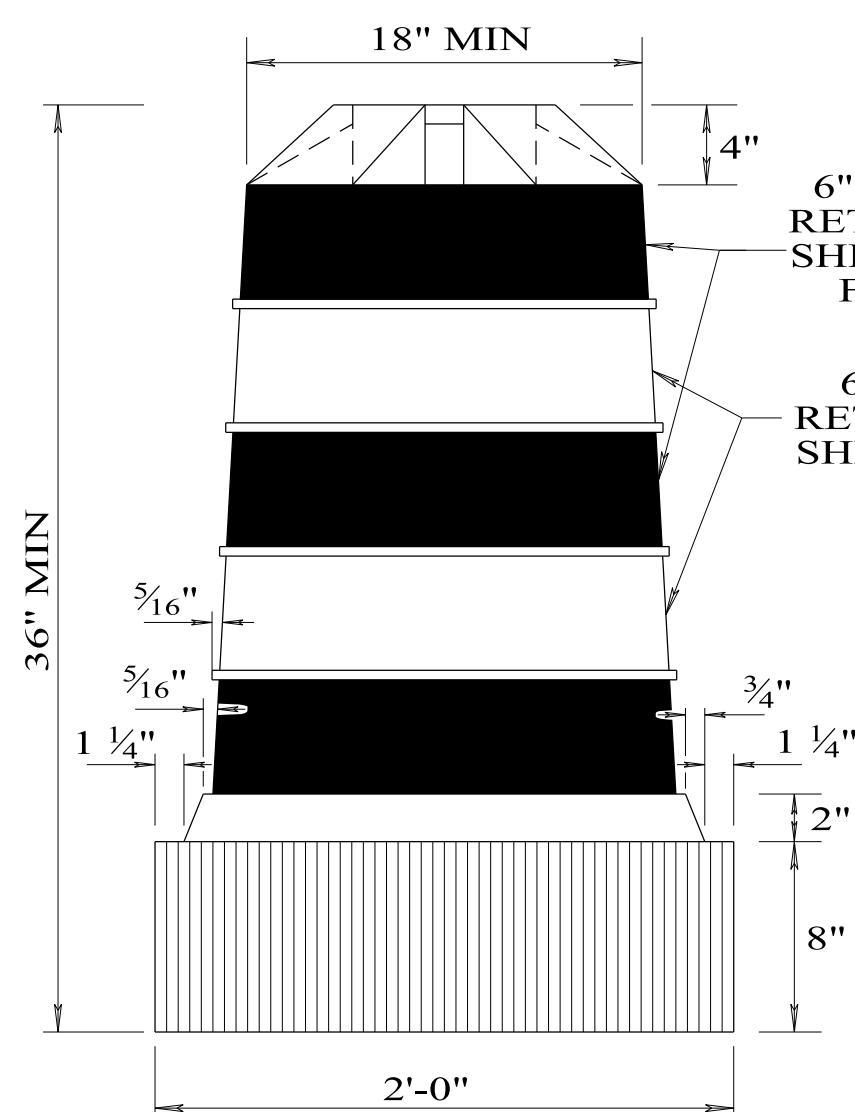
BALLAST FOR CONE
BALLAST SHALL BE REQUIRED
ALL DIMENSIONS ARE APPROXIMATE.

7 LBS MIN
12 LBS MAX
DAYTIME USE ONLY



28" / 36" CONE

36" CONE REQD FOR STATE
CONSTRUCTION AND MAINTENANCE
28" CONE REQD FOR UTILITY CONSTRUCTION

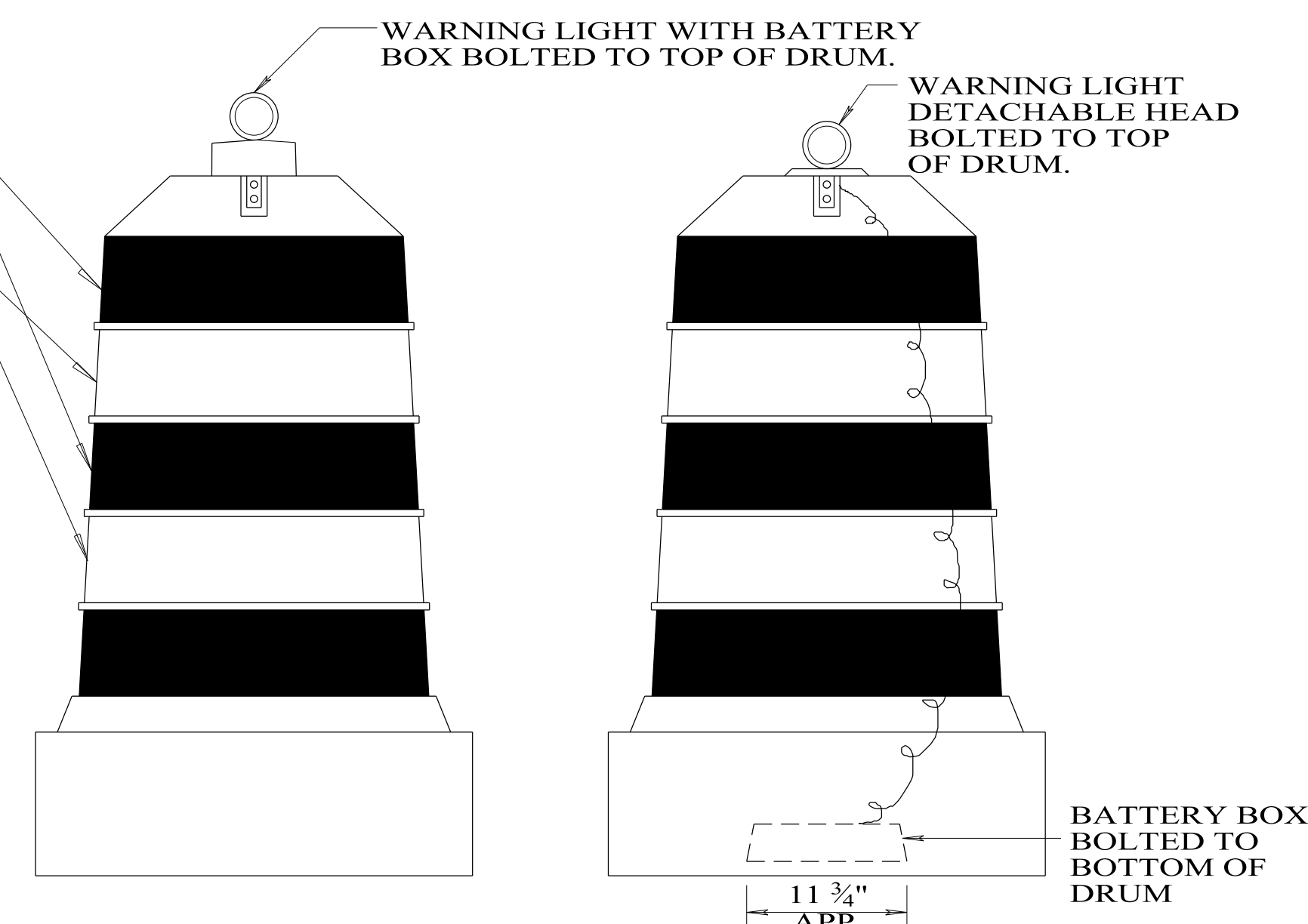


TYPE "B"

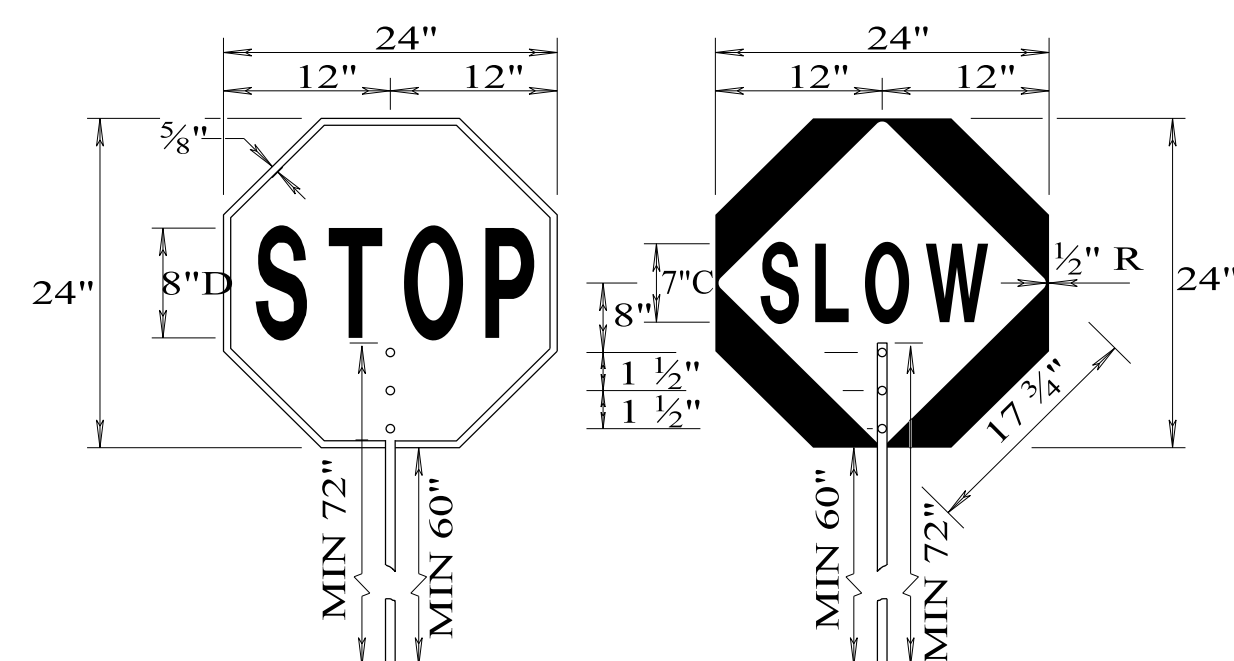
CHANNELIZING DRUM DESIGN

CHANNELIZING DRUMS SHALL BE FLEXIBLE PLASTIC, SET ON END AND COLOR SHALL BE ORANGE AND WHITE RETROREFLECTIVE STRIPES AND SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT ADVANCED WARNING SIGNS. DRUMS SHOULD NOT BE WEIGHTED TO THE EXTENT THAT WOULD MAKE THEM HAZARDOUS TO MOTORISTS.

RETROREFLECTIVE SHEETING DESIGN
RETROREFLECTIVE SHEETING USED ON CHANNELIZING DRUMS SHALL BE TYPE "IV", AS DESCRIBED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SECTION 880. ORANGE SHALL BE FLUORESCENT

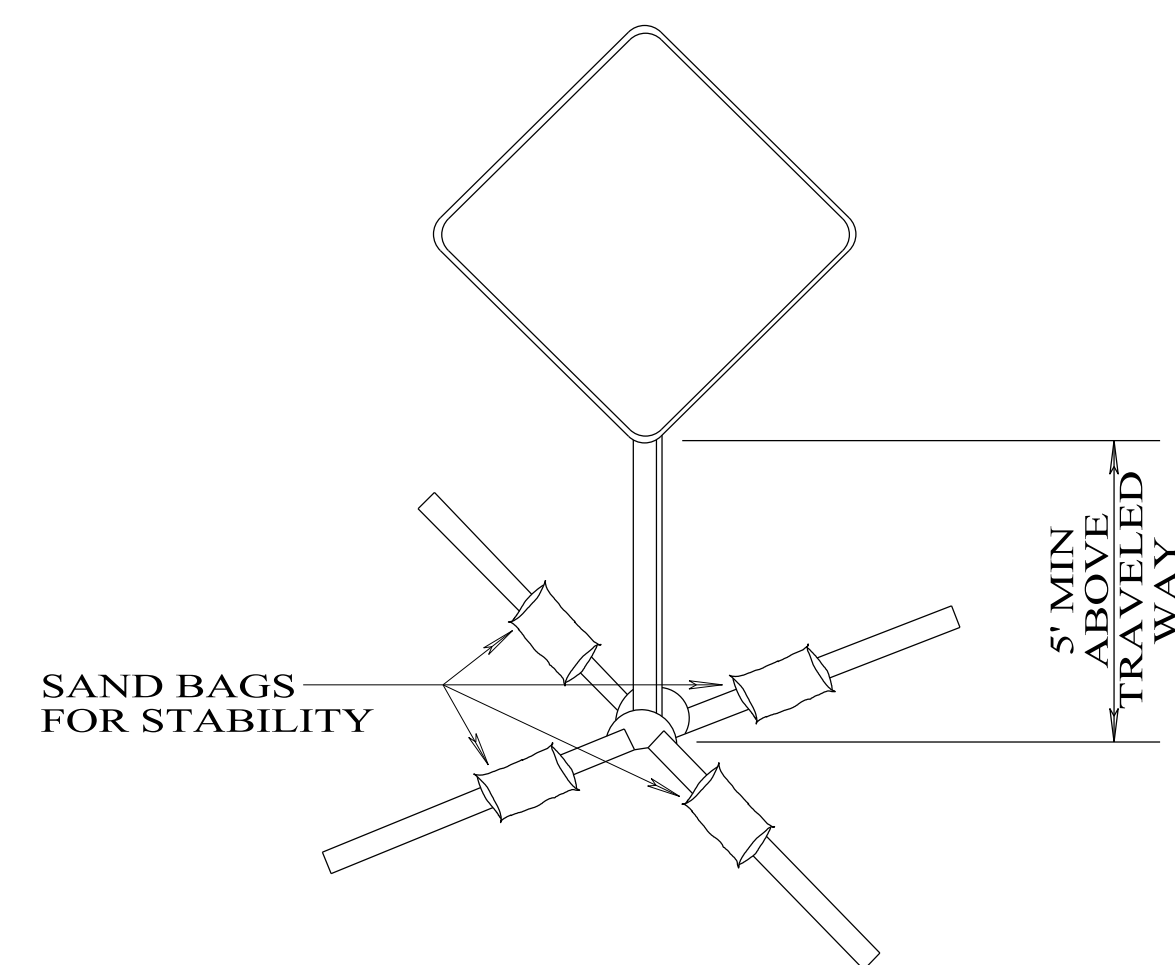


EXAMPLES OF WARNING LIGHT ATTACHED TO DRUM
(ONLY WHEN REQUIRED)



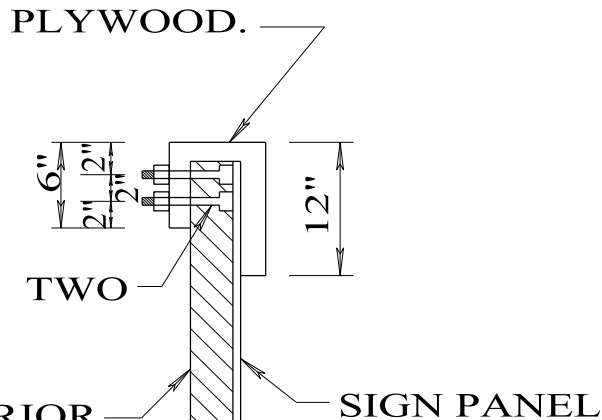
STAFF MOUNTED PADDLES

THE STAFF MOUNTED PADDLES SHALL BE FABRICATED USING TYPE "III" OR "IV" RETROREFLECTIVE SHEETING ON BOTH SIDES. THE STOP SIGN SHALL HAVE A RED BACKGROUND WITH WHITE LEGEND AND BORDER. THE SLOW SIGN SHALL HAVE AN ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.



TYPICAL SIGN INSTALLATION
(TEMPORARY SUPPORTS)

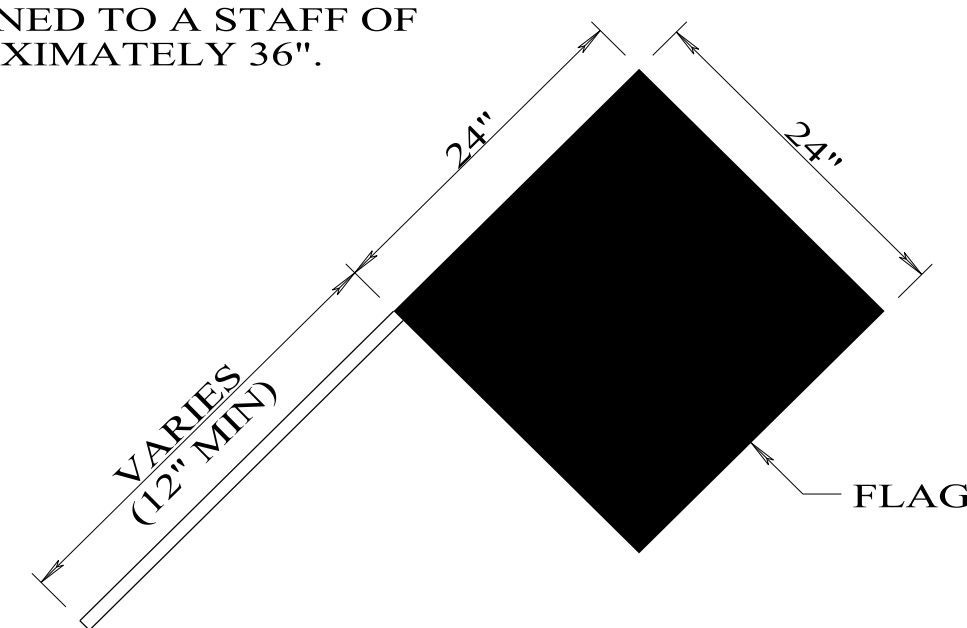
REQD (TWO) 1/4" THICK x 2" WIDE METAL HANGERS MOUNTED FOR EACH SIDE OF TOP EDGE OF SIGN PANEL WITH THE USE OF 3/16" BOLTS COUNTER-SUNK INTO PLYWOOD.



**INSTALLATION OF SIGN
COVERING MATERIAL
DURING NON-USE**

EXPOSED SURFACE MAY BE PAINTED. IF PAINTED, COLOR SHALL BE BLACK. ALTERNATE TYPES OF COVERING MATERIAL AND METHODS OF INSTALLATION MAY BE SUBMITTED BY THE CONTRACTOR FOR CONSIDERATION OF APPROVAL BY THE DEPARTMENT.

THE HAND SIGNALING FLAG SHALL BE MADE OF A RED OR FLUORESCENT ORANGE/RED SEMI-FLEXIBLE VINYL WITH HEAT SEALED WELT SECURELY FASTENED TO A STAFF OF APPROXIMATELY 36".

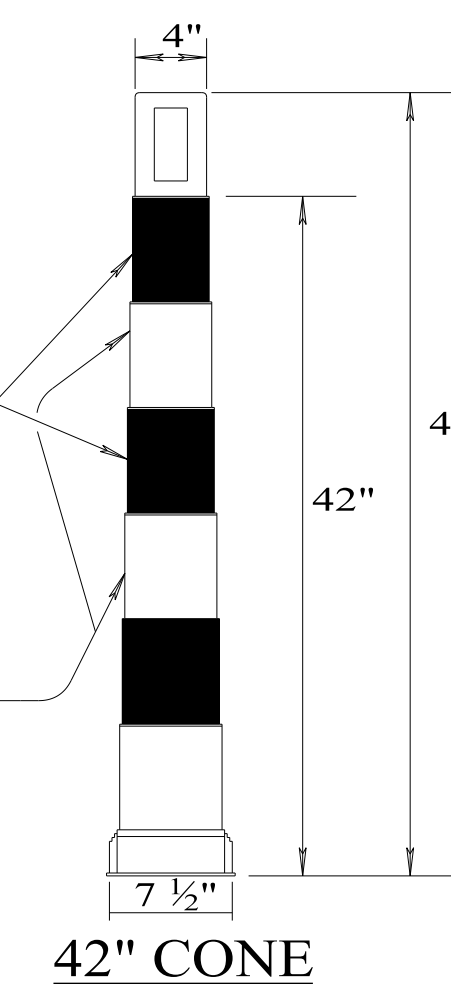


HAND SIGNALING FLAG
FLAGS SHOULD ONLY BE USED UNDER EMERGENCY CONDITIONS, OR AT A SPOT LOCATION WHICH CAN BEST BE CONTROLLED BY A SINGLE FLAGGER USING A FLAG.

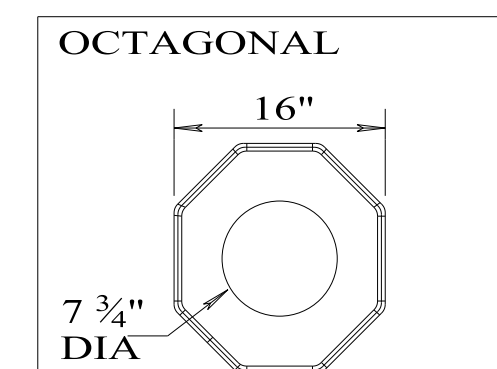
6" WIDE ORANGE RETROREFLECTIVE SHEETING, TYPE "IV" FLUORESCENT"

6" WIDE WHITE RETROREFLECTIVE SHEETING, TYPE "IV"

DAYTIME OR NIGHTTIME USE

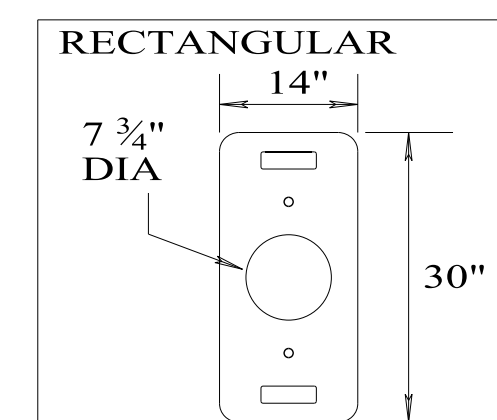


42" CONE



BALLAST FOR CONE

BALLAST SHALL BE REQUIRED ALL DIMENSIONS ARE APPROXIMATE.



RETROREFLECTIVE SHEETING DESIGN
RETROREFLECTIVE SHEETING USED ON CHANNELIZING CONES SHALL BE TYPE "IV", AS DESCRIBED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SECTION 880. ORANGE SHALL BE FLUORESCENT

NOTES:

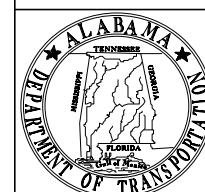
- ALL DEVICES THAT ARE USED FOR WORK ZONE TRAFFIC CONTROL SHALL MEET ONE OF THE FOLLOWING:

FOR DEVICES MANUFACTURED PRIOR TO JANUARY 1, 2020: "CRASHWORTHY" REQUIREMENTS GIVEN IN THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 FOR THE APPROPRIATE CATEGORY OF DEVICE. THESE DEVICES SHALL NOT BE USED AFTER DECEMBER 31, 2024.

FOR DEVICES MANUFACTURED ON OR AFTER JANUARY 1, 2020: CRASHWORTHY REQUIREMENTS GIVEN IN THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), 2016, FOR THE APPROPRIATE CATEGORY OF DEVICE.

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION



ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

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REVISIONS:
1. Added Drum w/Battery Bolted Warning Light on 9-27-2010 by J.F.T.
2. Changed 'Reflectorized' to 'Retroreflective' removed Warning Flags Mounting details, removed warning flags from typical sign installation detail, updated notes per 2009 MUTCD on 10-28-2013 by C.J.C.
3. Updated Typical Sign Installation (Temporary Supports) Detail on 9-9-2014 by C.J.C.

4. Revised because T.C.P. Notes state 5' min height for Temporary Sign Support on 3-25-2015 by J.F.T.
5. Updated 28" / 36" Cone Detail, deleted HAND HELD PADDLES and added 42" Cone Detail on 3-6-2019 by D.J.W. and J.F.T.
6. Changed sheeting type for cones and drums to IV only on 1-5-2021 by D.J.W.
7. Modified note 1 to include MASH and transition requirements on 8-23-2021 by D.J.W.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 11-5-1990
REVISED DATE: 8-23-2021

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CHANNELIZATION DEVICES

SPECIAL DRAWING NO
TCD-100

INDEX NO
74007