

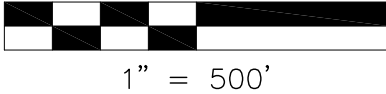
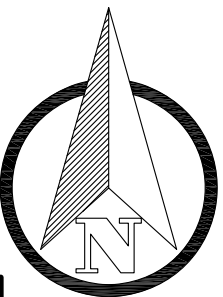
CONSTRUCTION PLANS FOR

LOCATION: PHARR, TEXAS

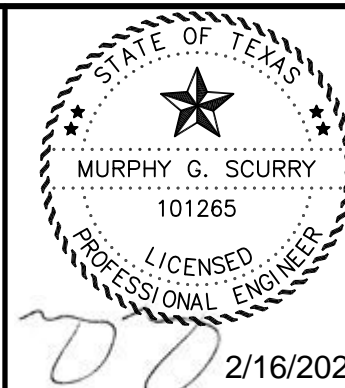


VICINITY MAP

GRAPHIC SCALE IN FEET


$$1'' = 500'$$


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Carrizales
Land
Surveying, LLC

Texas Registered Surveying Firm
TBSL FIRM No: 10194417
4807 Gondola Avenue,
Edinburg, TX 78542
Office: 956-567-2167

PROJ. NO.	23236
DATE:	02/15/2024
SCALE:	AS NOTED
DRAWN BY:	J.C.
CHECKED BY:	M.C.

TRDI OFFICE AND WAREHOUSE
CONSTRUCTION PLANS
PHARR, TEXAS

COVER SHEET

01
SHEET No.:
SHEET NAME:

ALL INSTALLATION OF WATERLINES, VALVES, METERS, AND FITTINGS SHALL BE IN ACCORDANCE WITH THE CITY OF PHARR STANDARDS.

2.) THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND ELECTRICAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE, THE LOCATIONS AND SIZES HAVE BEEN TAKEN FROM EXISTING RECORDS AND THE BEST AS-BUILT INFORMATION AVAILABLE. HOWEVER, IT IS EXPECTED THAT THERE MAY BE SOME DISCREPANCIES AND OMISSIONS IN THE LOCATIONS, QUALITIES AND SIZES SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT TYPE, SIZE AND LOCATION OF ALL UTILITIES AFFECTED BY THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL ARRANGE FOR THE REPAIR AND RESTORATION OF CONTRACTOR DAMAGED UTILITIES. THE COST OF ANY REPAIR OR REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CURRENT LINE SPOTTING TOLL FREE NUMBER AND COORDINATE WITH ALL THE UTILITY COMPANIES FOR ACTUAL LOCATING AND UNCOVERING OF EXISTING LINE PRIOR TO EXCAVATION OPERATIONS.

3.) THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY UNREPORTED OBSTACLES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THIS PROJECT.

4.) ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE STATE STATUTES AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (OSHA). COPIES OF THE O.S.H.A. STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT.

5.) THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE, NEAT, AND WORKMAN LIKE MANNER AT ALL TIMES. JOB SAFETY SHALL NOT BE COMPROMISED. ANY UNSAFE OR UNATTRACTIVE NUISANCE SHALL BE REMOVED OR OTHERWISE TAKEN CARE OF BY THE CONTRACTOR WHEN DIRECTED BY THE OWNER OR PROJECT ENGINEER.

6.) EXCAVATIONS, TRENCHES AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS AND/OR OTHER PROTECTIVE DEVICES AT ALL TIMES.

7.) CONSTRUCTION OF THIS PROJECT WILL BE SUBJECT TO INSPECTIONS AND TESTING AS DEEMED NECESSARY OR APPROPRIATE BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH INCIDENTAL LABOR AND EQUIPMENT TO ALLOW THE TESTING PERSONNEL ACCESS TO THE WORK SITE AND WILL COOPERATE FULLY WITH THE PERSONS CONDUCTING THE TESTING AND INSPECTION PROGRAM.

8.) A PART OF THE WORK THAT IS NECESSARY OR REQUIRED TO MAKE EACH SYSTEM OR INSTALLATION SATISFACTORY AND OPERABLE FOR ITS INTENDED PURPOSE, EVEN THOUGH IT IS NOT SPECIFICALLY INCLUDED IN THE SPECIFICATIONS OR DRAWINGS, SHALL BE PERFORMED AS INCIDENTAL WORK AS IF IT WERE DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.

9.) THE DRAWINGS DO NOT ALWAYS INDICATE ALL VERTICAL BENDS AND TRANSITIONS. WHEN NECESSARY, MAKE VERTICAL TRANSITIONS BY A DEFLECTION AT THE JOINTS OR THE INSTALLATION OF FITTINGS. DO NOT DEFLECT PIPE JOINTS MORE THAN THE MANUFACTURERS RECOMMENDATION.

10.) ALL UNDERGROUND PIPING MUST BE INSTALLED WITH A MINIMUM OF 36-INCHES OF COVER UNLESS OTHERWISE NOTED ON THE PLANS.

11.) ALL EXCAVATION FOR THIS PROJECT SHALL BE UNCLASSIFIED.

12.) THERE WILL BE NO BLASTING ALLOWED ON THIS PROJECT.

13.) ALL PIPES, VALVES, FITTINGS AND OTHER APPURTENANCES SHALL BE RATED FOR 150 PSI, UNLESS OTHER WISE NOTED.

14.) ANY SAFETY DEVICES, WARNING LIGHTS, CONTROLS, ALARMS OR OTHER DEVICES SHOWN ON ANY PLANS OR CALLED FOR BY ANY SECTION OF THE SPECIFICATIONS SHALL BE MADE OPERABLE. THE CONTRACTOR SHALL SUPPLY ALL CONDUIT, WIRING, SWITCHES, SENSORS, OR ANY OTHER MATERIALS NECESSARY TO CONNECT THE DEVICE AND MAKE IT OPERABLE.

15.) ALL UTILITIES WHICH ARE TO REMAIN AND WHICH ARE DAMAGED OR REMOVED WILL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

16.) ALL UNDERGROUND PIPE SHALL BE BACK FILLED WITH JOINTS EXPOSED FOR TESTING, BEFORE NEW JOINTS ARE COVERED. PRESSURE LINES ARE TO BE HYDROSTATICALLY TESTED AT NOT LESS THAN 150 PSIG FOR A PERIOD OF TWO(2) HOURS. THE OWNER SHALL OBSERVE AND APPROVE OR REJECT THE TEST. REPAIRS, IF REQUIRED, SHALL BE MADE AND THE LINE SHALL BE RETESTED UNTIL APPROVED. TEST SHALL NOT BEGIN UNTIL CONCRETE THRUST BLOCKS HAVE ADED A MINIMUM OF 24 HOURS.

17.) THESE NOTES ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND SHOULD NOT BE CONSIDERED A SUBSTITUTE FOR THE DETAILED REQUIREMENTS SET FORTH IN THE SPECIFICATIONS. WHERE THERE IS A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.

18.) AS SOON AS PRACTICAL, ALL PORTIONS OF EXCAVATIONS NOT OCCUPIED BY A PERMANENT STRUCTURE SHALL BE BACKFILLED.

19.) AREAS USED FOR THE CONTRACTOR'S JOB TRAILER, PERSONNEL PARKING, MATERIAL STORAGE, SPOILS STOCKPILE, MATERIAL FABRICATION AND RELATED CONSTRUCTION USES MUST BE APPROVED BY THE PROJECT ENGINEER.

20.) WHERE THE WATER TRANSFER LINE INSTALLATION INTERSECTS SANITARY SEWER SYSTEM MAINS AT LESS THAN 9.0 FEET SEPARATION, THE CONTRACTOR SHALL INSTALL A 20 FOOT SECTION OF C-900 PVC PRESSURE PIPE CENTERED ON THE POINT OF INTERSECTION.

21.) CONTRACTOR SHALL REMOVE AND REINSTALL ALL SIGNS, MAILBOXES, FENCES, CULVERTS AND OTHER ITEMS IN WAY OF THE WORK. (NO SEPARATE PAY)

22.) CONTRACTOR SHALL REPAIR AND RESTORE ALL PAVED AREAS AFFECTED BY OPEN CUTS, TO A BETTER STATE THAN PRE-CONSTRUCTION CONDITIONS, WITH LIKE MATERIALS. (NO SEPARATE PAY)

23.) PROVIDE INTERIM DRAINAGE DURING CONSTRUCTION AS REQUIRED. USE PUMPS, TEMPORARY DITCHES, ETC. TO MAINTAIN A WELL DRAINED SITE FREE OF STANDING WATER AND WATER SOFTENED SOILS.

24.) MAINTAIN COVER BELOW DITCHES AND SURFACE DEPRESSIONS. PRESSURE UTILITIES MAY BE LAID APPROXIMATELY PARALLEL TO GRADE, UNLESS OTHERWISE INDICATED, WITH LOCAL DEEPENING TO AVOID OTHER UTILITIES OR OBSTRUCTIONS. PROVIDE PROTECTION WHERE COVER IS TEMPORARILY REDUCED.

25.) ANCHOR ALL UNDERGROUND PRESSURE PIPING AS NECESSARY TO PREVENT MOVEMENT UNDER PRESSURE TEST AND SERVICES.

26.) ALL REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A-165, GRADE 60. ALL BARS SHALL CONFORM TO ASTM SPECIFICATION A-305.

27.) ALL CONCRETE AND FORM WORK SHALL CONFORM TO CURRENT ACI CODE REQUIREMENTS.

- 1.) THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIRE EROSION AND SEDIMENTATION CONTROL FOR CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL REQUIRED EROSION AND SEDIMENTATION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN.
- 2.) AT A MINIMUM THESE CONTROLS SHALL CONSIST OF ROCK BERMS AND/OR SILT FENCES CONSTRUCTED PARALLEL TO AND DOWN GRADIENT FROM THE TRENCHES. THE ROCK BERM OR SILT FENCES SHALL BE INSTALLED IN A MANNER SUCH THAT ANY RAINFALL RUNOFF SHALL BE FILTERED. HAY BALES SHALL NOT BE USED FOR TEMPORARY EROSION AND SEDIMENTATION CONTROLS.
- 3.) ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.

PROJECT:	TRDI OFFICE AND WAREHOUSE CONSTRUCTION PLANS PHARR, TEXAS	PROJ. NO. 23236 DATE: 02/15/2024 SCALE: AS NOTED	 <p>Carroll County Land Surveying, LLC Texas Registered Surveying Firm TBPLS FIRM No: 10194417 4807 Gonzales Avenue, Pharr, TX 78574 Office: 956-567-2167 www.ccland</p>	 <p>Carroll County Surveyor Seal</p>	 <p>Carroll County Surveyor Seal</p>	 <p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll County Surveyor Seal</p>	<p>Carroll</p>
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ABBREVIATIONS & ACRONYMS

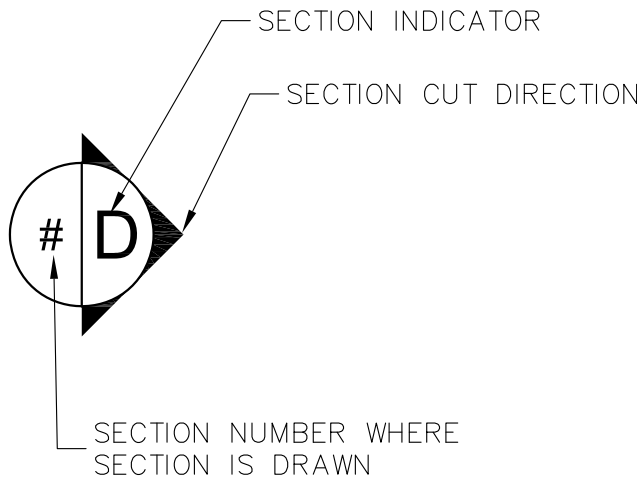
CONC.	CONCRETE
R.C.P.	REINFORCED CONCRETE PIPE
H.D.P.E.	HIGH DENSITY POLYETHYLENE
EXIST.	EXISTING
W//	WITH
INV.	INVERT
PROP.	PROPOSED
OFF.	OFFSET
L.F.	LINEAR FOOT
C.Y.	CUBIC YARD
S.F.	SQUARE FOOT
LBS	POUNDS
R.O.W.	RIGHT OF WAY
ESMT.	EASEMENT
UTIL.	UTILITY
S.W.S.C.	CITY OF PHARR
N:	NORTHING
E:	EASTING
STA.	STATION
APPROX.	APPROXIMATELY
EQA.	EQUATION
Ø	DIAMETER
EG:	EXISTING GRADE/GROUND
FG:	FINISHED GRADE
FL:	FLOW
D.R.H.T.	DEED RECORDS HIDALGO COUNTY TEXAS
O.R.H.T.	OFFICIAL RECORDS HIDALGO COUNTY TEXAS
M.R.H.T.	MAP RECORDS HIDALGO COUNTY TEXAS
CNR.	CORNER
S.W.	SOUTHWEST
N.W.	NORTHWEST
VOL.	VOLUME
PG.	PAGE
WD	WARRANTY DEED
D.L.I.D.	DELTA LAKE IRRIGATION DISTRICT
H.C.I.D.	HIDALGO COUNTY IRRIGATION DISTRICT
H.C.D.D.	HIDALGO COUNTY DRAINAGE DISTRICT
WD:	WARRANTY DEED
SWD:	SPECIAL WARRANTY DEED
GWD:	GENERAL WARRANTY DEED
WDL:	WARRANT DEED W/VENDOR'S LIEN
GD:	GIFT DEED
WDFCL:	WARRANTY DEED IN LIEU OF FORECLOSURE
SWDL:	SPECIAL WARRANT DEED W/VENDOR'S LIEN

EXISTING LEGEND

	BOUNDARY
	RIGHT OF WAY LINE
	EASEMENT LINE
	LOT LINE
	PROPERTY LINE
	CONTOUR LINE WITH ELEVATION
	EXISTING 8" WATER LINE (CITY OF PHARR)
	EXISTING STORM DRAIN (CITY OF PHARR)
	EXISTING 8" SANITARY SEWER LINE (CITY OF PHARR)
	EXISTING UNDERGROUND CABLE (FRONTIER)
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING CHAINLINK FENCE
	EXISTING HOG WIRE FENCE
	EXISTING CEDAR FENCE
	EXISTING CURB & GUTTER ROAD (ASPHALT)
	FND IRON ROD
	EXISTING CONCRETE
	EXISTING MAIL BOX
	EXISTING WATER METER
	EXISTING GAS METER
	EXISTING POWER POLE
	EXISTING LIGHT POLE
	EXISTING GUY WIRE
	EXISTING CABLE PEDESTAL
	EXISTING TRAFFIC SIGN
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER MANHOLE
	EXISTING TREE

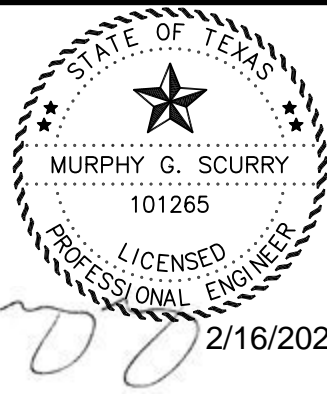
PROPOSED LEGEND

	CALCULATED POINT
	BENCHMARK
	PROPOSED MAJOR CONTOUR LINE WITH ELEVATION
	PROPOSED MINOR CONTOUR LINE WITH ELEVATION
	PROPOSED SWALE/DITCH FLOW LINE
	PROPOSED EROSION CONTROL MEASURES (AS NOTED)
	PROPOSED EROSION CONTROL MEASURES SEDIMENT CONTROL FENCE



ESTIMATED QUANTITIES

LINE	DESCRIPTION	UNIT	QTY
PAVING			
1	2" HMAC-TYPE D W/TACK COAT	SY	698.5
2	8" LIME TREAT CALICHE FLEX BASE @ 4% BY WEIGHT	SY	749.4
3	6" LIME TREAT SUBGRADE @ 4% BY WEIGHT	SY	749.4
4	LIME	TON	20
5	MC-30 PRIME COAT	GAL	139.7
6	4' WIDE CONCRETE SIDEWALK	LF	43.2
7	5' WIDE CONCRETE SIDEWALK	LF	47.1
8	2' WIDE STEEL COVER-SIDEWALK DRAIN	EA	1
9	CONCRETE FLAT WORK (ENTRANCE)	SY	13.8
10	ADA RAMP	EA	3
SANITARY SEWER			
11	SANITARY SEWER MANHOLE	EA	1
12	6" SANITARY SEWER LINE SDR-26 PVC	LF	59.3
13	6" PVC CLEAN-OUT	EA	1
14	TIE-IN TO EXIST. 8" SANITARY SEWER LINE	EA	1
DRAINAGE			
15	8" PVC, SDR-26	LF	44
16	8" PVC 45° ELBOW	EA	1
17	8" PVC CLEAN-OUT	EA	1
18	TIE-IN TO EXIST. CURB INLET	EA	1
19	EXCAVATION (DETENTION POND)	CY	143
20	SHALLOW SWALE/DITCH	LF	205.3
21	2' CONCRETE FLUME	LF	11
22	OUT-FALL SLOPE PROTECTION	EA	1
WATER			
23	2" WATER LINE C900 PVC	LF	132.4
24	2" 90° ELBOW	EA	1
25	DUAL WATER SERVICE CONNECTION (DOMESTIC & IRRIGATION)	EA	1
26	WATER METER	EA	1
27	4" PVC CASING	LF	45
28	2" x 8" TAPPING SLEEVE/TEE	EA	1
29	TIE-IN TO EXIST. 8" WATER LINE	EA	1
STORM WATER POLLUTION PREVENTION			
30	SILT CONTROL FENCE INSTALL AND REMOVE [PROPERTY PERIMTER]	LF	526.6
31	TEMPORARY EROSION CONTROL LOGS	LF	10
32	CONSTRUCTION ENTRANCE/EXIT TYPE 1 INSTALL AND REMOVE	SY	77.78
STREET LIGHTING			
33	LIGHT POLE WITH LUMINAIRE ASSYM.	EA	1
SOLID WASTE			
34	12' x 12.33' ENCLOSURE (REINFORCED CONCRETE, STEEL GATE, CMU WALL, & PIPE BOLLARD)	EA	1
MISC			
35	STEEL BOLLARD	EA	5
36	PARKING LOT PAVEMENT MARKING	LS	1



NO.	DATE	DESCRIPTION	BY	REVISIONS



Carrizales

Land Surveying, LLC

Texas Registered Surveying Firm

TBPLS FIRM No:10194417

4807 Gondola Avenue,

Pharr, Texas 78577

Office: 956-567-2167

www.clsland

PROJ. NO.	23236
DATE:	02/15/2024
SCALE:	AS NOTED
DRAWN BY:	J.C.
CHECKED BY:	M.C.
GENERAL	

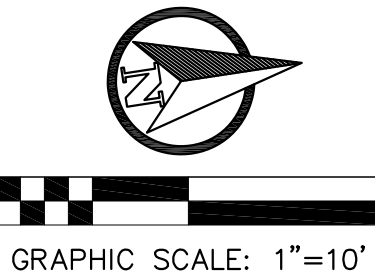
TRDI OFFICE AND WAREHOUSE
CONSTRUCTION PLANS
PHARR, TEXAS

GENERAL NOTES & ESTIMATED QUANTITIES

03

SHEET NAME:

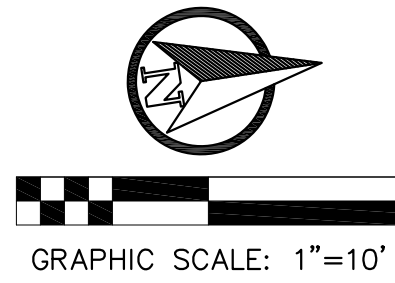
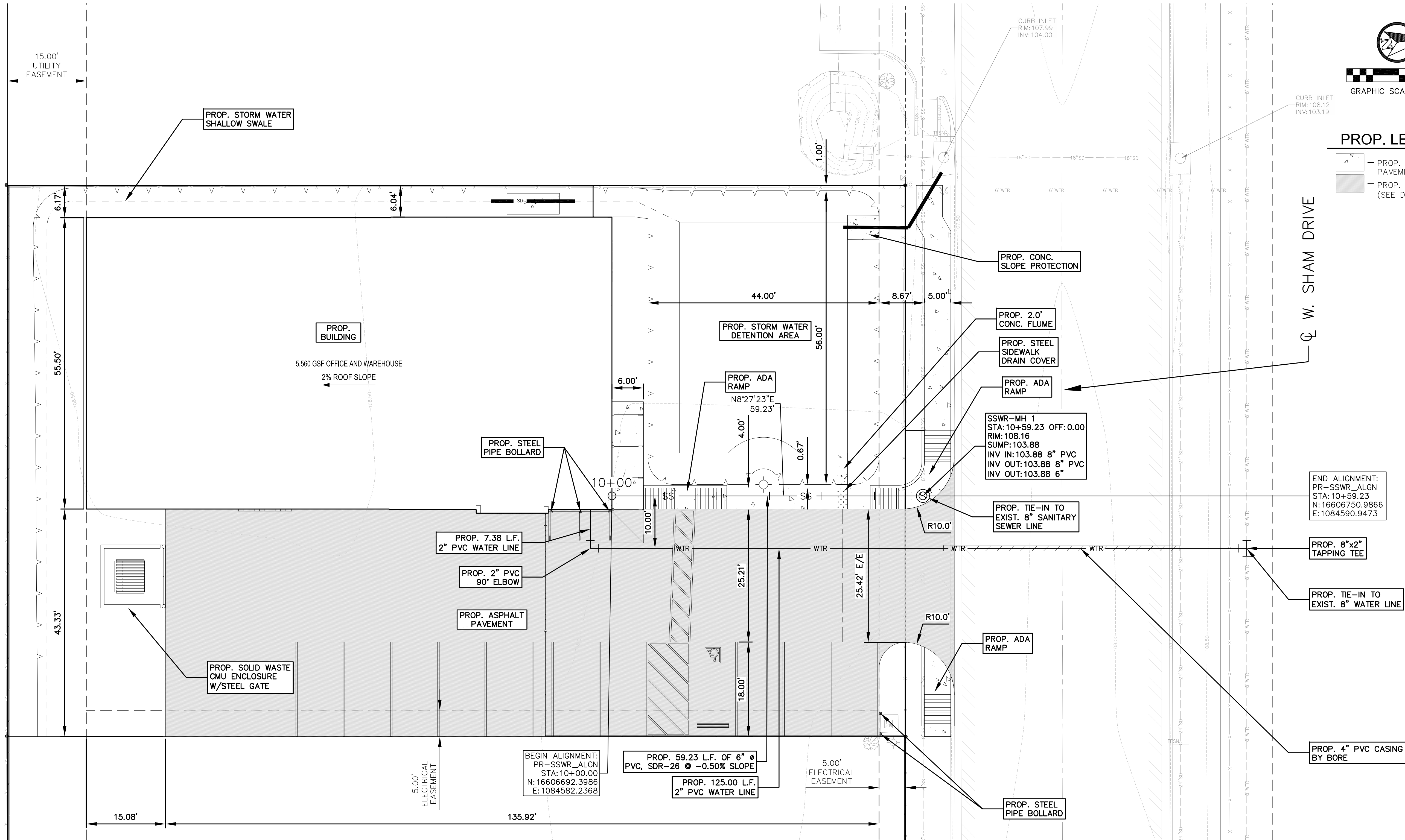
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**Carrazales
Land
Surveying, LLC**

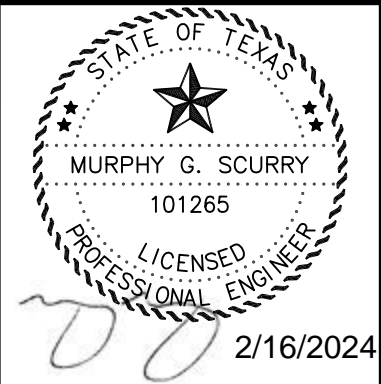
Texas Registered Surveying Firm
 TPBLS Firm No:10194417
 4807 Gondola Avenue,
 Edinburg, TX 78542
 Office: 956-567-2167

TRDI OFFICE AND WAREHOUSE CONSTRUCTION PLANS PHARR, TEXAS		PROJ. NO. 23236
PROJECT:	05 EXISTING TOPOGRAPHY	DATE: 02/15/2024
		SCALE:
		DRAWN BY: J.C.
		CHECKED BY: M.C.



PROP. LEGEND

- PROP. CONCRETE PAVEMENT
- PROP. 2" H.M.A.C.P. (SEE DETAILS, THIS SHEET)



NO.	DATE	BY	DESCRIPTION

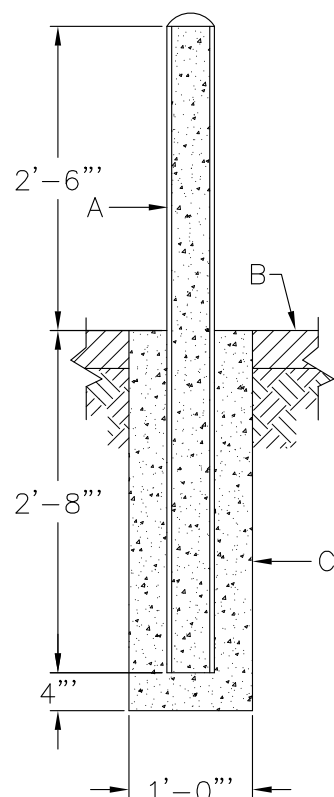


Carrizales Land Surveying, LLC
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PROJ. NO.	DATE	SCALE	DRAWN BY	CHECKED BY	GENERAL
23236	02/15/2024	AS NOTED	J.C.	M.C.	

TRDI OFFICE AND WAREHOUSE
CONSTRUCTION PLANS
PHARR, TEXAS

PROJECT: 06
SHEET No.:
PROPOSED IMPROVEMENTS
SHEET NAME:



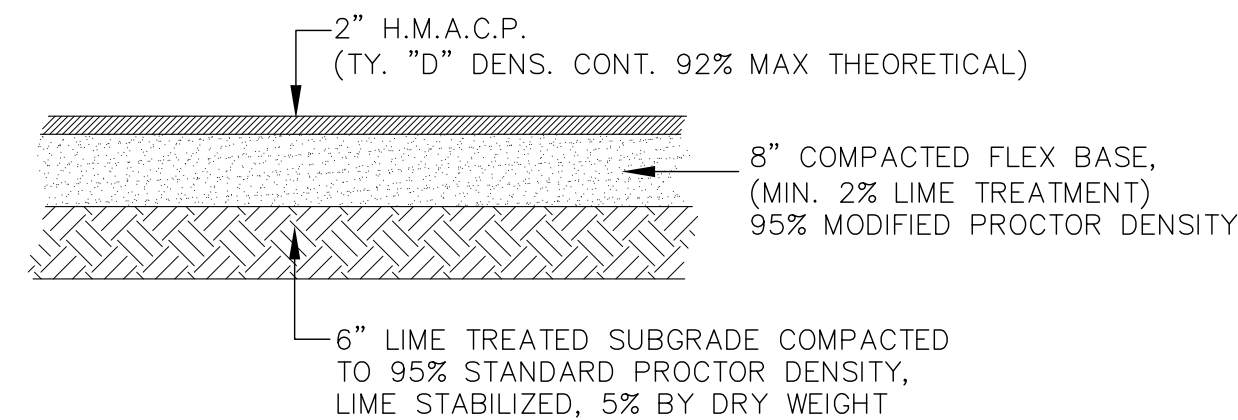
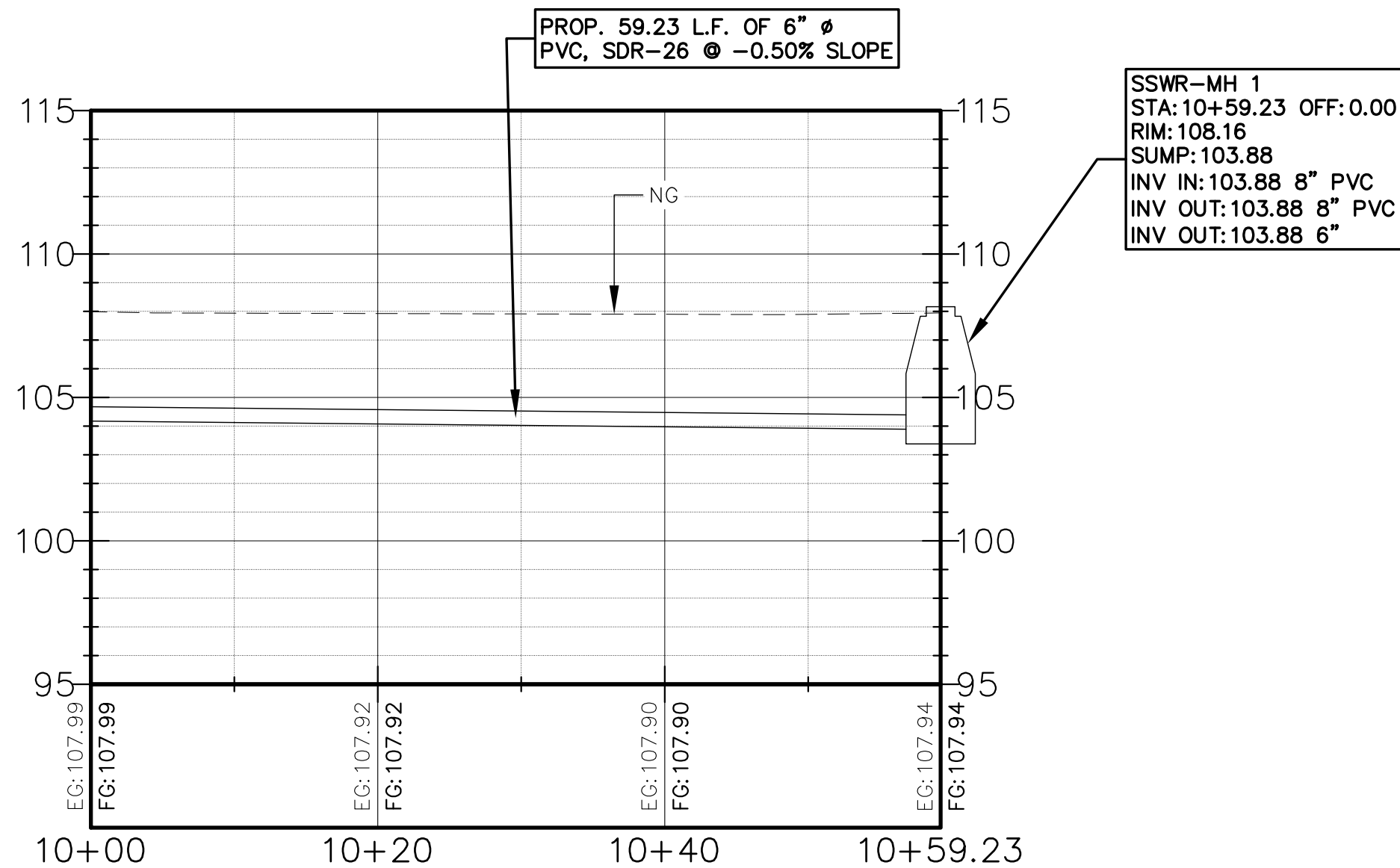
GENERAL NOTES:

- FOR SLEEVE, USE GATES NO. 37 WATER HOSE, DISCHARGE HOSE OR EQUIVALENT WITH 6.625" I.D., 7.29" O.D, 6 PLY WITH A BLACK NEOPRENE COVER.
- WELDS ARE TO BE GROUND SMOOTH.
- EXPOSED STEEL AND SLEEVE TO BE PAINTED WITH OIL BASE ALKYD PRIMER AND OIL BASE ALKYD ENAMEL. TOP COAT COLOR TO BE BRIGHT YELLOW.
- OF BOLLARD SHOULD BE WELL AWAY FROM TRAFFIC ON MAJOR ROADWAYS & PREFERABLY AT THE R-O-W LINE. TRAFFIC ENGINEER SHOULD BE CONSULTED ON LOCATION WHEN NEAR TRAFFIC.
- PIPES ARE NOT TO BE FILLED WITH CONCRETE WHEN PIPES ARE LOCATED WITHIN 15' OF STREET FLOWLINE. USE WELDED STEEL CAP INSTEAD.

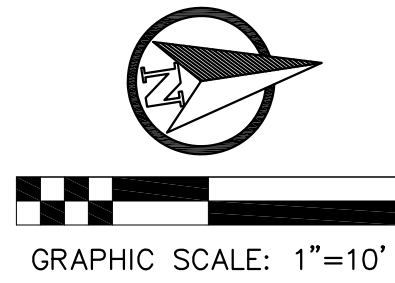
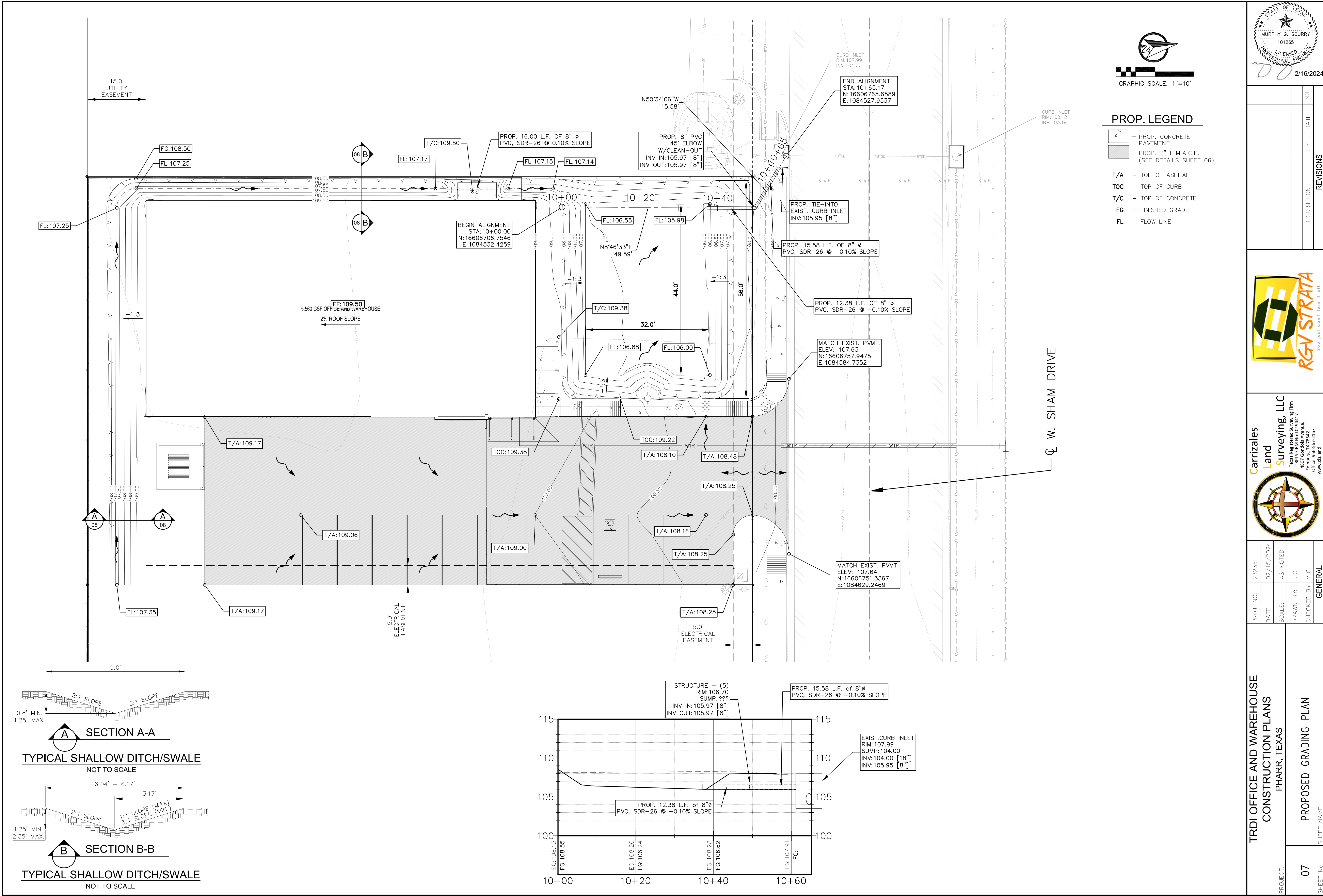
CONSTRUCTION NOTES

- 4" NOMINAL DIA. SCHEDULE 40 GALVANIZED STEEL PIPE, 5'-2" LONG. TO BE FILLED WITH CONCRETE PAINT PIPE BRIGHT YELLOW ABOVE FINISHED GRADE.
- PAVEMENT OR FINISHED GRADE.
- CONCRETE COLLAR 3000 P.S.I. AT 28 DAYS, WITH SMOOTH OR BROOM FINISH WHERE PAVEMENT IS ADJACENT.

STATIONARY STEEL PIPE BOLLARD DETAIL
NOT TO SCALE



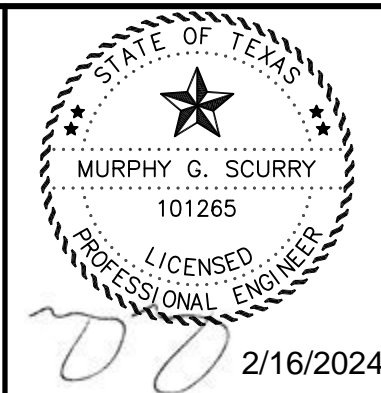
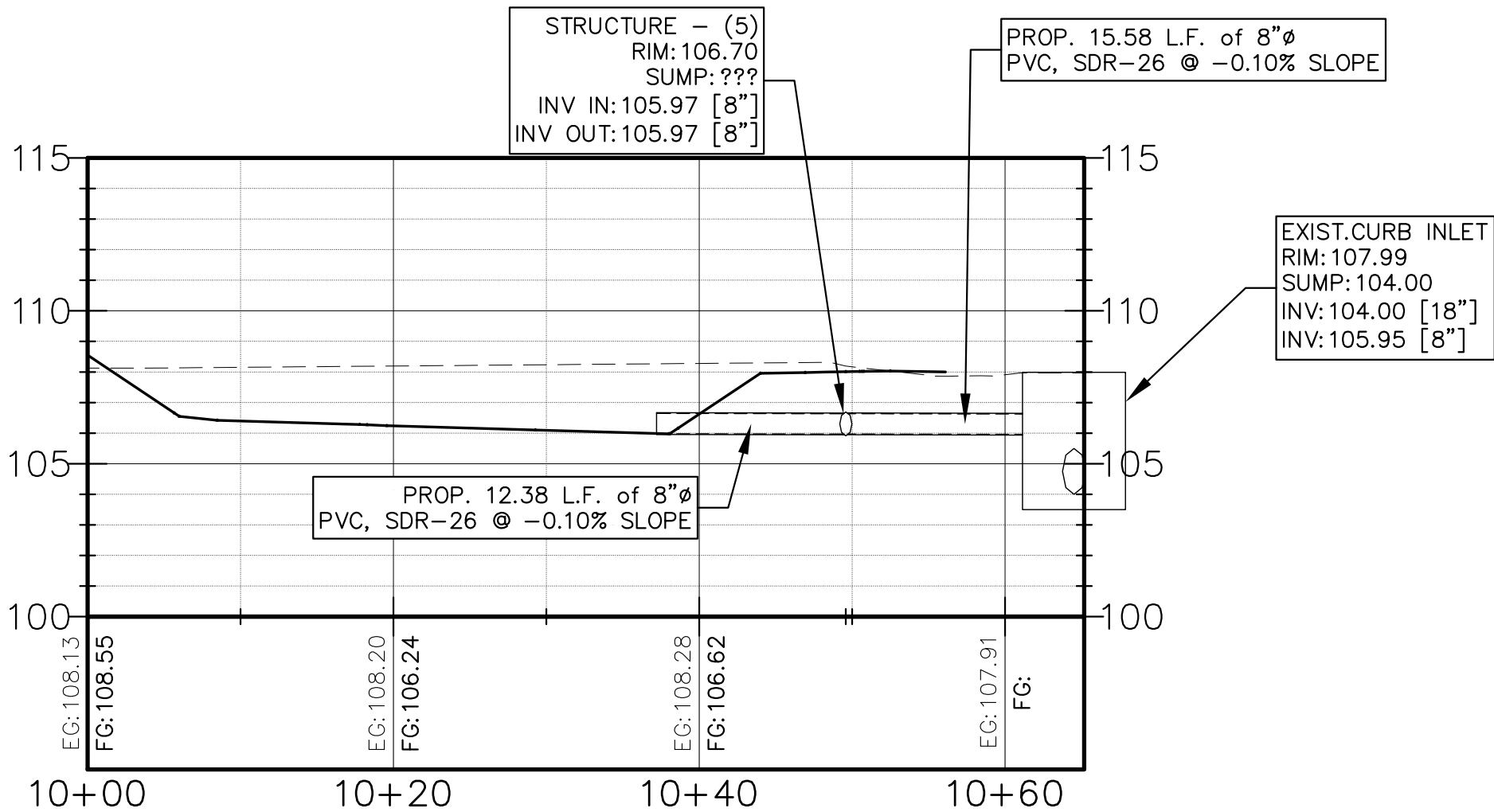
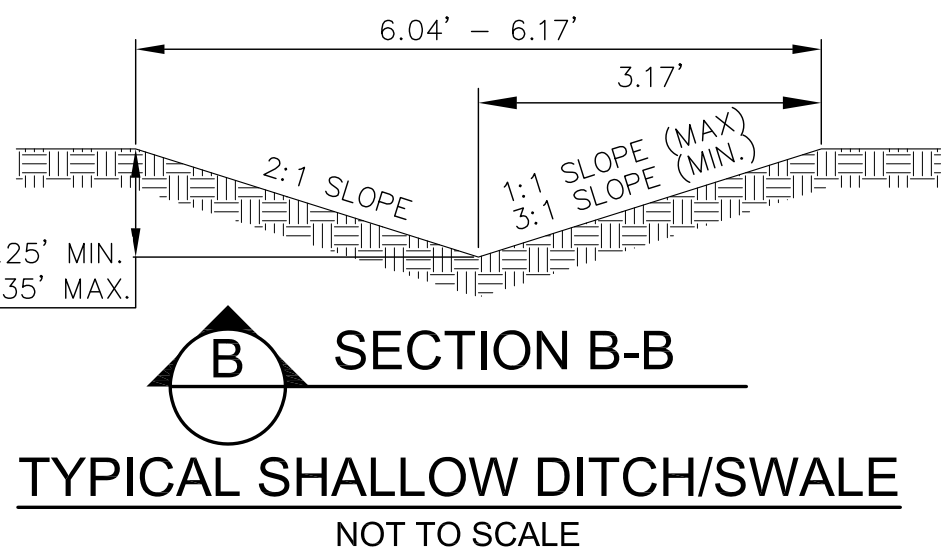
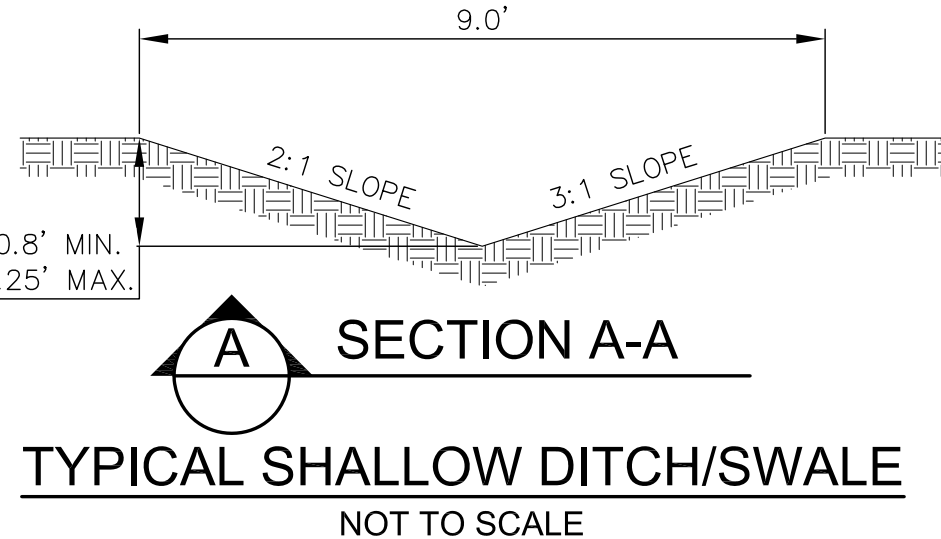
TYPICAL PAVEMENT SECTION
NOT TO SCALE



PROP. LEGEND

- PROP. CONCRETE PAVEMENT
- PROP. 2" H.M.A.C.P. (SEE DETAILS SHEET 06)

- T/A - TOP OF ASPHALT
- TOC - TOP OF CURB
- T/C - TOP OF CONCRETE
- FG - FINISHED GRADE
- FL - FLOW LINE



NO.	DATE	BY	DESCRIPTION



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Texas Registered Surveying Firm
TSPS FIRM No: 10194417
4807 Gondola Avenue,
Pharr, TX 78576
Office: 361-567-2167
www.clsland.com

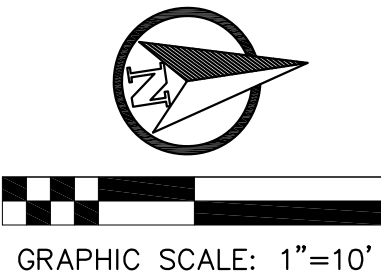
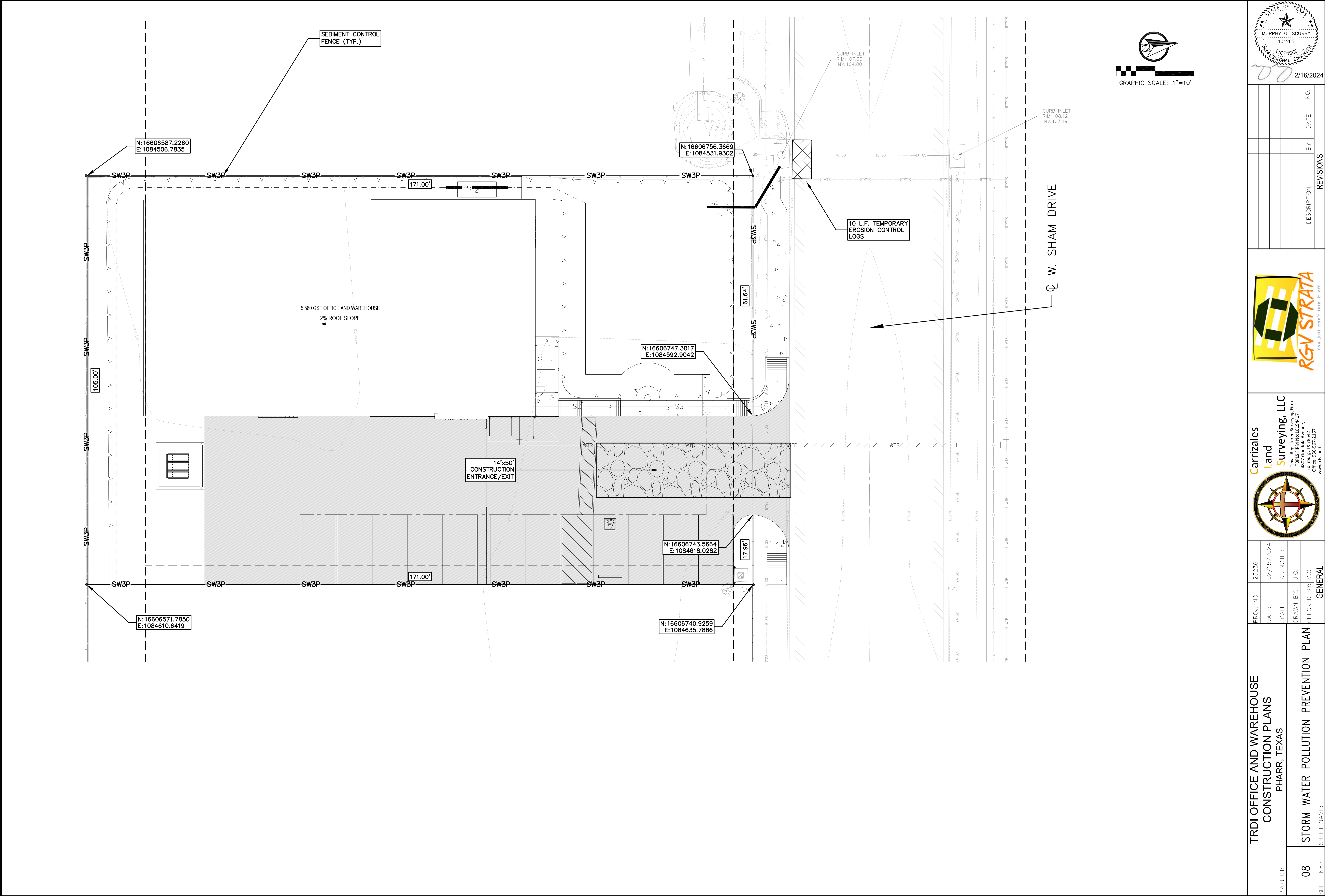
PROJ. NO.	23236
DATE:	02/15/2024
SCALE:	AS NOTED
DRAWN BY:	J.C.
CHECKED BY:	M.C.
GENERAL	

TRDI OFFICE AND WAREHOUSE
CONSTRUCTION PLANS
PHARR, TEXAS

PROPOSED GRADING PLAN

07

SHEET NAME:



STATE OF TEXAS

MURPHY G. SURREY

101265

LICENSED PROFESSIONAL ENGINEER

00

2/16/2024

NO.	DATE	BY	DESCRIPTION	REVISIONS



Carrizales

Land Surveying, LLC

Texas Registered Surveying Firm

TBPLS FIRM No:10194417

4807 Gondola Avenue,

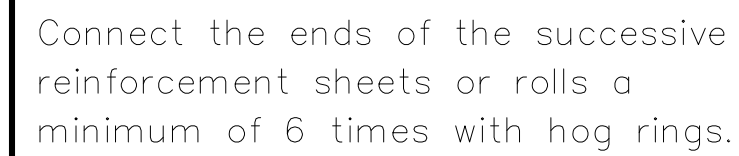
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PROJECT:	TRDI OFFICE AND WAREHOUSE CONSTRUCTION PLANS PHARR, TEXAS
SHEET No.:	08
SHEET NAME:	STORM WATER POLLUTION PREVENTION PLAN



Galvanized welded wire mesh (W.W.M.) (12.5 GA. SWG Min.) with a maximum opening size of 2"x 4" or Woven Mesh (W.M.) (See woven mesh option detail)

SCF



Galvanized hinge joint knot woven mesh (12.5 GA.SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT . ²Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.


Sediment Control Fence



1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
2. Perform vertical tracking on slopes to temporarily stabilize soil.
3. Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
4. Do not exceed 12" between track impressions.
5. Install continuous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



VERTICAL TRACKING

 <p>Texas Department of Transportation</p>	<p><i>Design Division Standard</i></p>			
<p>TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCE & VERTICAL TRACKING EC(1)-16</p>				
FILE: ec116	DN: TxDOT	CK: KM	DW: VP	DN/CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY		SHEET NO.

PLAN VIEW

PLAN VIEW

ELEVATION VIEW

CONSTRUCTION EXIT (TYPE 1)

ROCK CONSTRUCTION (LONG TERM)

GENERAL NOTES (TYPE 1)

1. The length of the type 1 construction exit shall be as indicated on the plans, but not less than 50'.
2. The coarse aggregate should be open graded with a size of 4" to 8".
3. The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
4. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other materials approved by the Engineer.
5. The construction exit shall be graded to allow drainage to a sediment trapping device.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
7. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.

ELEVATION VIEW

CONSTRUCTION EXIT (TYPE 2)

TIMBER CONSTRUCTION (LONG TERM)

GENERAL NOTES (TYPE 2)

1. The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
2. The treated timber planks shall be attached to the railroad ties with "2"x 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
6. The construction exit should be graded to allow drainage to a sediment trapping device.
7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
8. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.


SECTION A-A

CONSTRUCTION EXIT (TYPE 3)

SHORT TERM

GENERAL NOTES (TYPE 3)

1. The length of the type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
2. The type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

 Texas Department of Transportation	Design Division Standard																		
<h1 style="margin: 0;">TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES</h1> <h2 style="margin: 0;">CONSTRUCTION EXITS</h2> <h3 style="margin: 0;">EC(3)-16</h3>																			
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	DIST	COUNTRY		SHEET NO.															
REVISIONS																			

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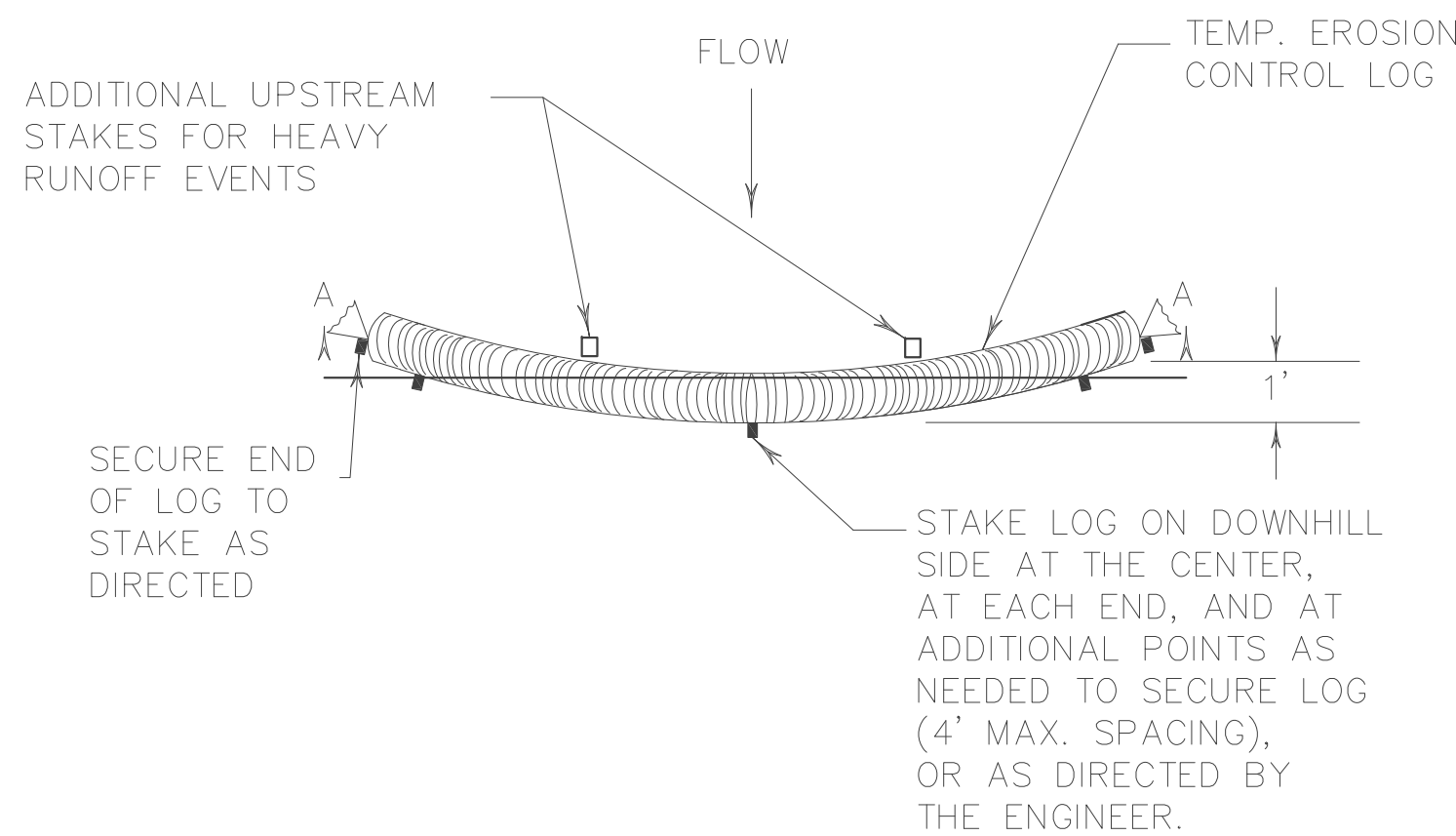
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Texas Registered Surveying Firm
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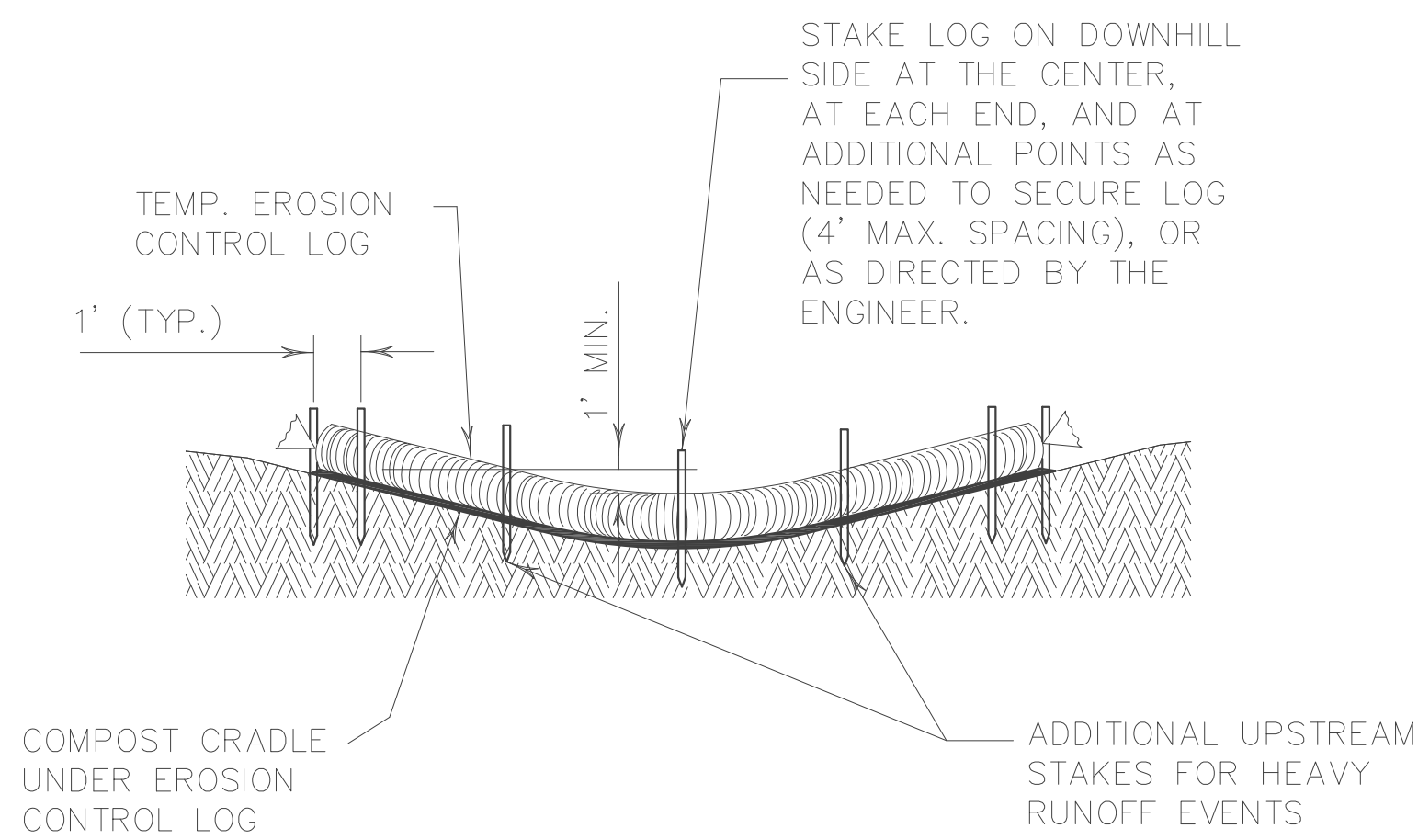
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PHARR, TEXAS

TEMPORARY SEDIMENT & WATER
POLLUTION CONTROL MEASURES
EC(3)-16

10



PLAN VIEW



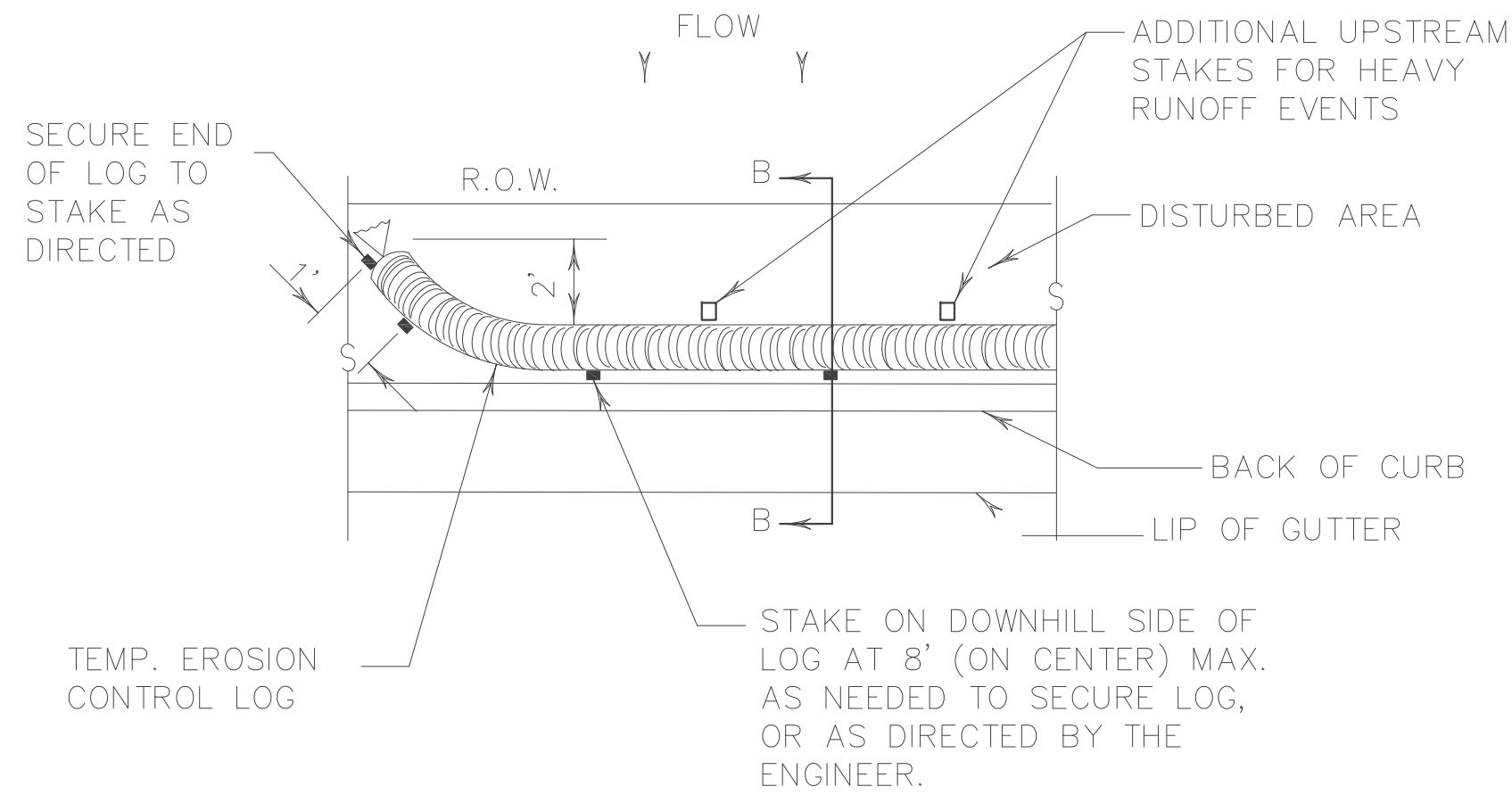
SECTION A-A

EROSION CONTROL LOG DAM

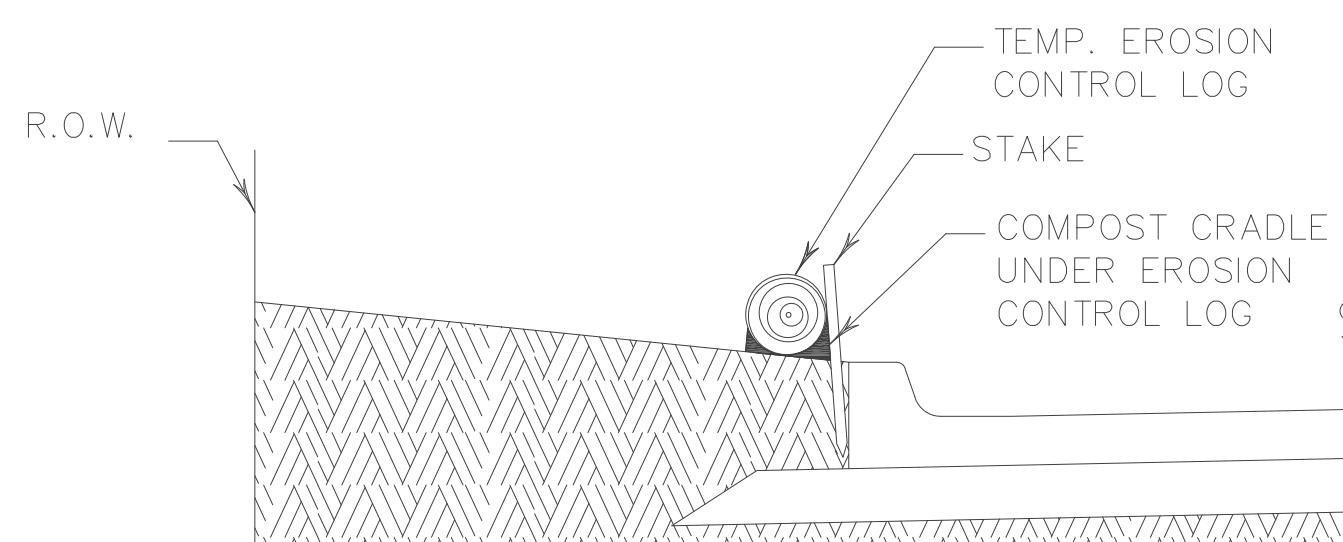
CL-D

LEGEND

- CL-D EROSION CONTROL LOG DAM
- CL-BOC EROSION CONTROL LOG AT BACK OF CURB
- CL-ROW EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY
- CL-SST EROSION CONTROL LOGS ON SLOPES STAKE AND TRENCHING ANCHORING
- CL-SSL EROSION CONTROL LOGS ON SLOPES STAKE AND LASHING ANCHORING
- CL-DI EROSION CONTROL LOG AT DROP INLET
- CL-CI EROSION CONTROL LOG AT CURB INLET
- CL-GI EROSION CONTROL LOG AT CURB & GRATE INLET



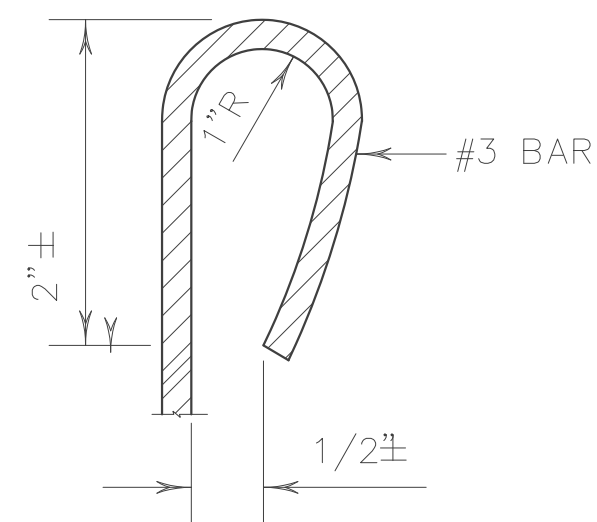
PLAN VIEW



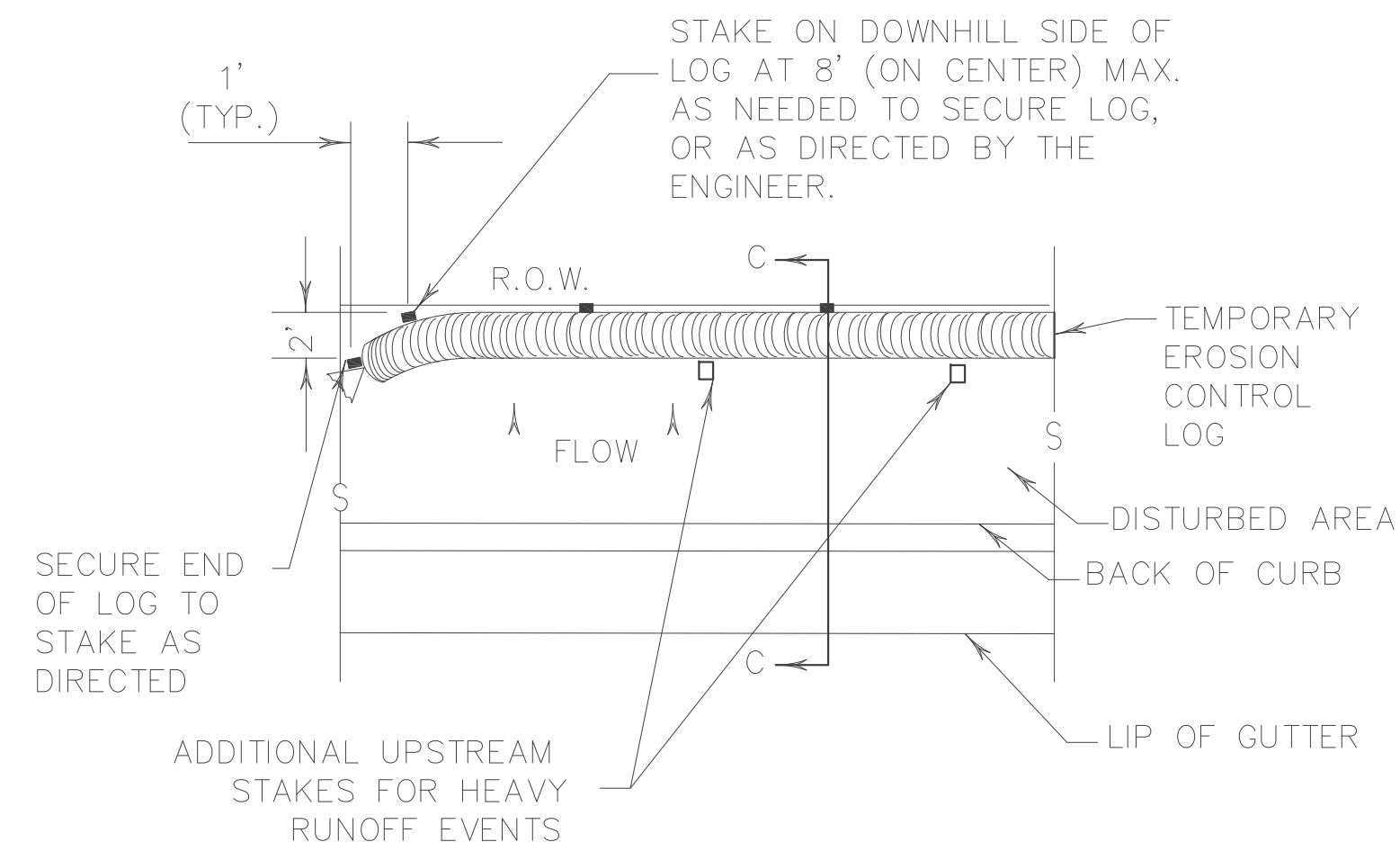
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EROSION CONTROL LOG AT BACK OF CURB

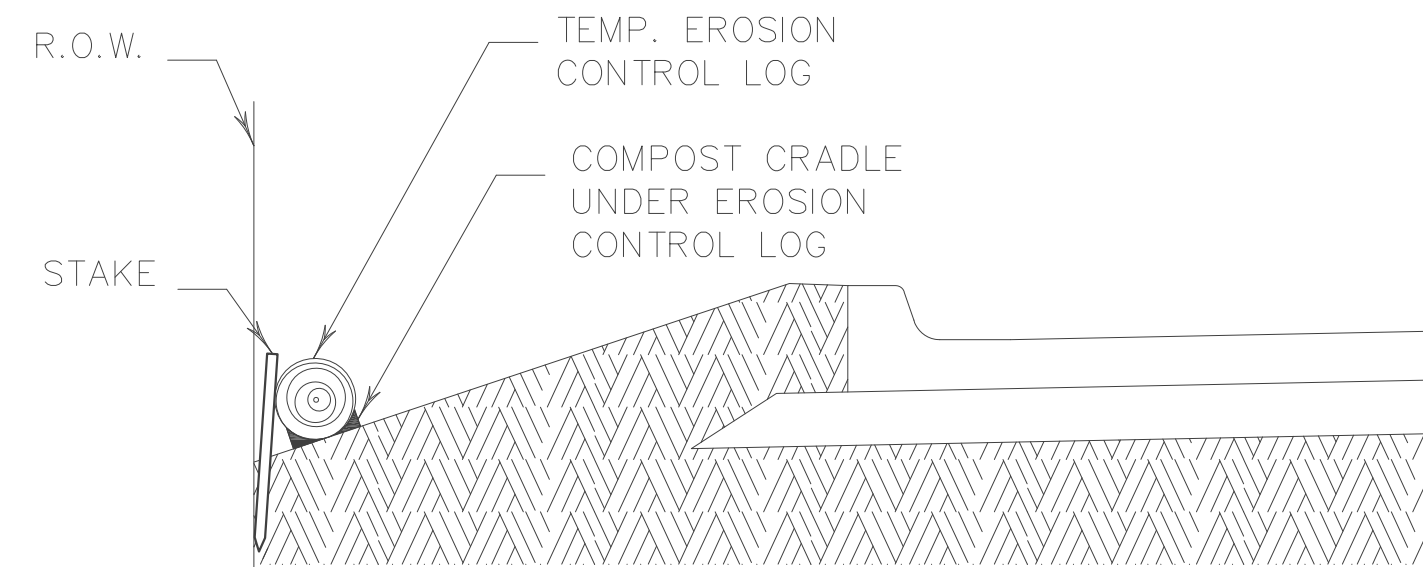
CL-BOC



REBAR STAKE DETAIL



PLAN VIEW

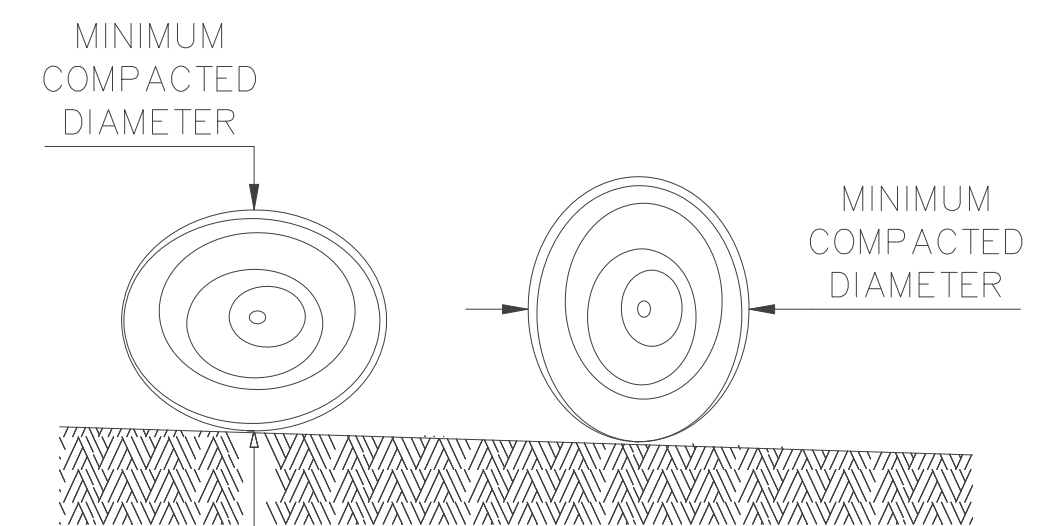


SECTION C-C

EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY

CL-ROW

- GENERAL NOTES:
1. EROSION CONTROL LOGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, OR AS DIRECTED BY THE ENGINEER.
 2. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED.
 3. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
 4. FILL LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE THE MINIMUM COMPACTED DIAMETER SPECIFIED IN THE PLANS WITHOUT EXCESSIVE DEFORMATION.
 5. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 2'-4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED BY THE ENGINEER.
 6. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.
 7. COMPOST CRADLE MATERIAL IS INCIDENTAL & WILL NOT BE PAID FOR SEPARATELY.
 8. SANDBAGS USED AS ANCHORS SHALL BE PLACED ON TOP OF LOGS & SHALL BE OF SUFFICIENT SIZE TO HOLD LOGS IN PLACE.
 9. TURN THE ENDS OF EACH ROW OF LOGS UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE LOG.
 10. FOR HEAVY RUNOFF EVENTS, ADDITIONAL UPSTREAM STAKES MAY BE NECESSARY TO KEEP LOG FROM FOLDING IN ON ITSELF.



DIAMETER MEASUREMENTS OF EROSION CONTROL LOGS SPECIFIED IN PLANS

SHEET 1 OF 3

		Design Division Standard	
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES			
EROSION CONTROL LOG			
EC(9)-16			
FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT
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REVISIONS		HIGHWAY	
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		SHEET NO.	

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GENERAL									

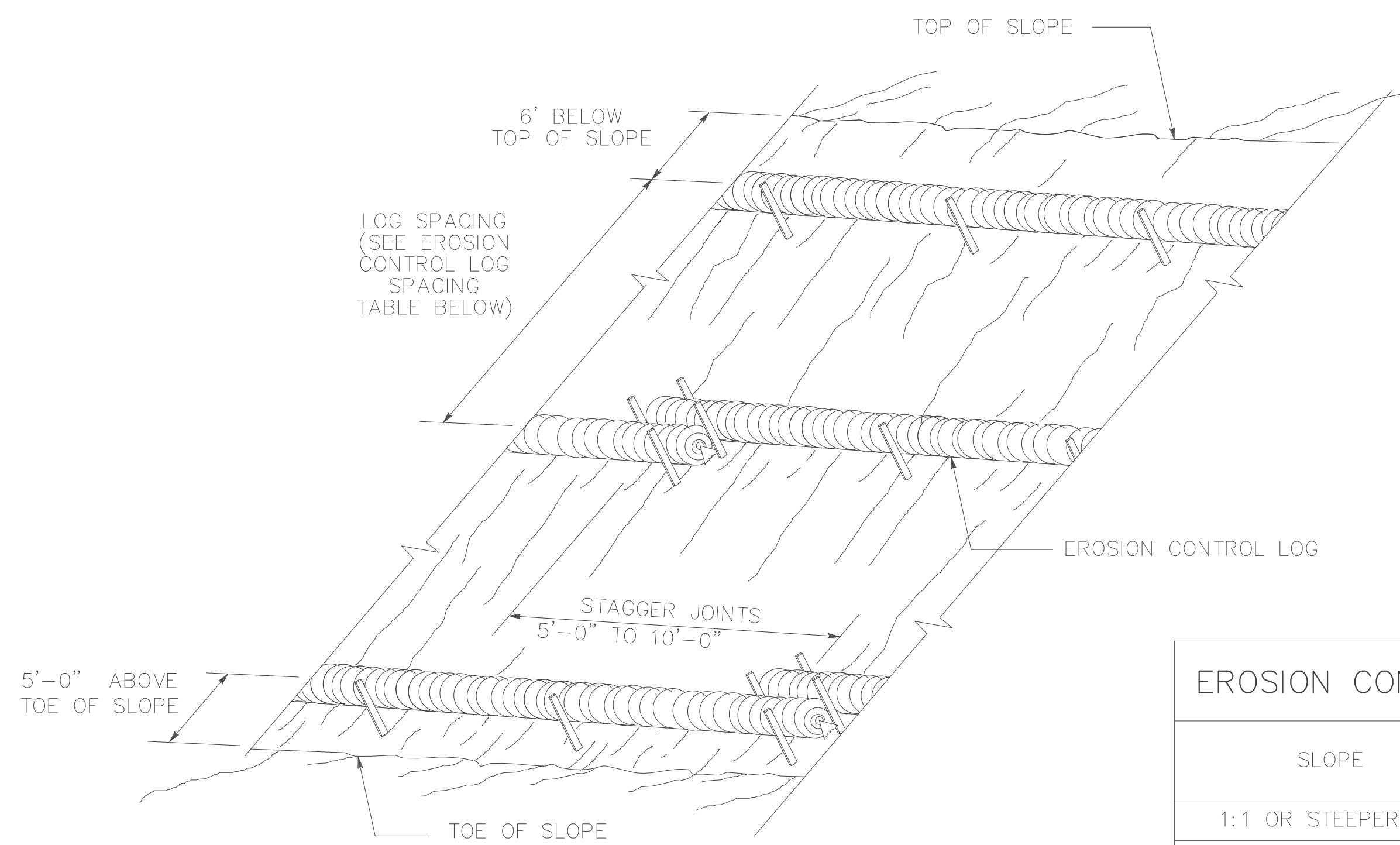
TRDI OFFICE AND WAREHOUSE CONSTRUCTION PLANS
PHARR, TEXAS

TEMPORARY SEDIMENT & WATER POLLUTION CONTROL MEASURES
EC(9)-16

PROJECT: 11

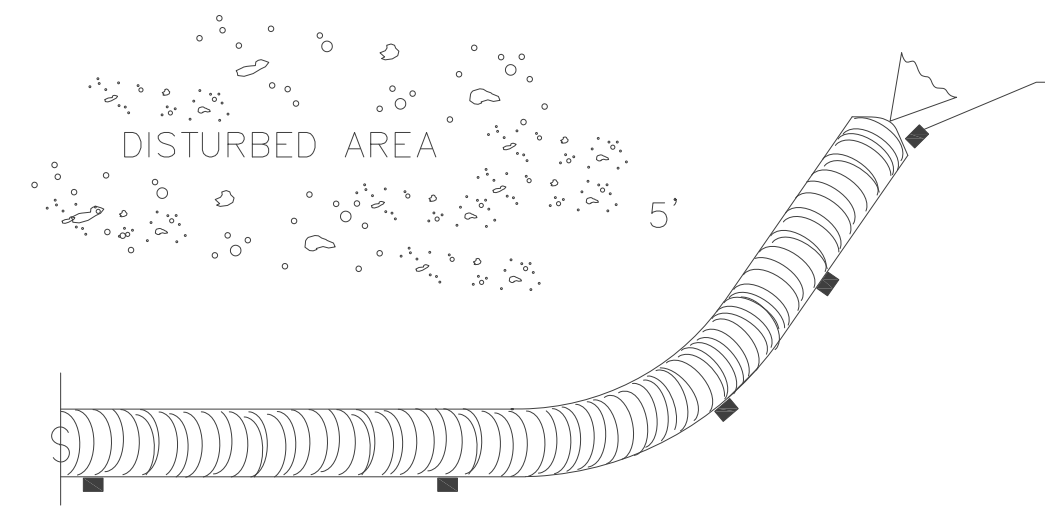
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SHEET No.: 11



EROSION CONTROL LOGS ON SLOPES
STAKE AND TRENCHING ANCHORING

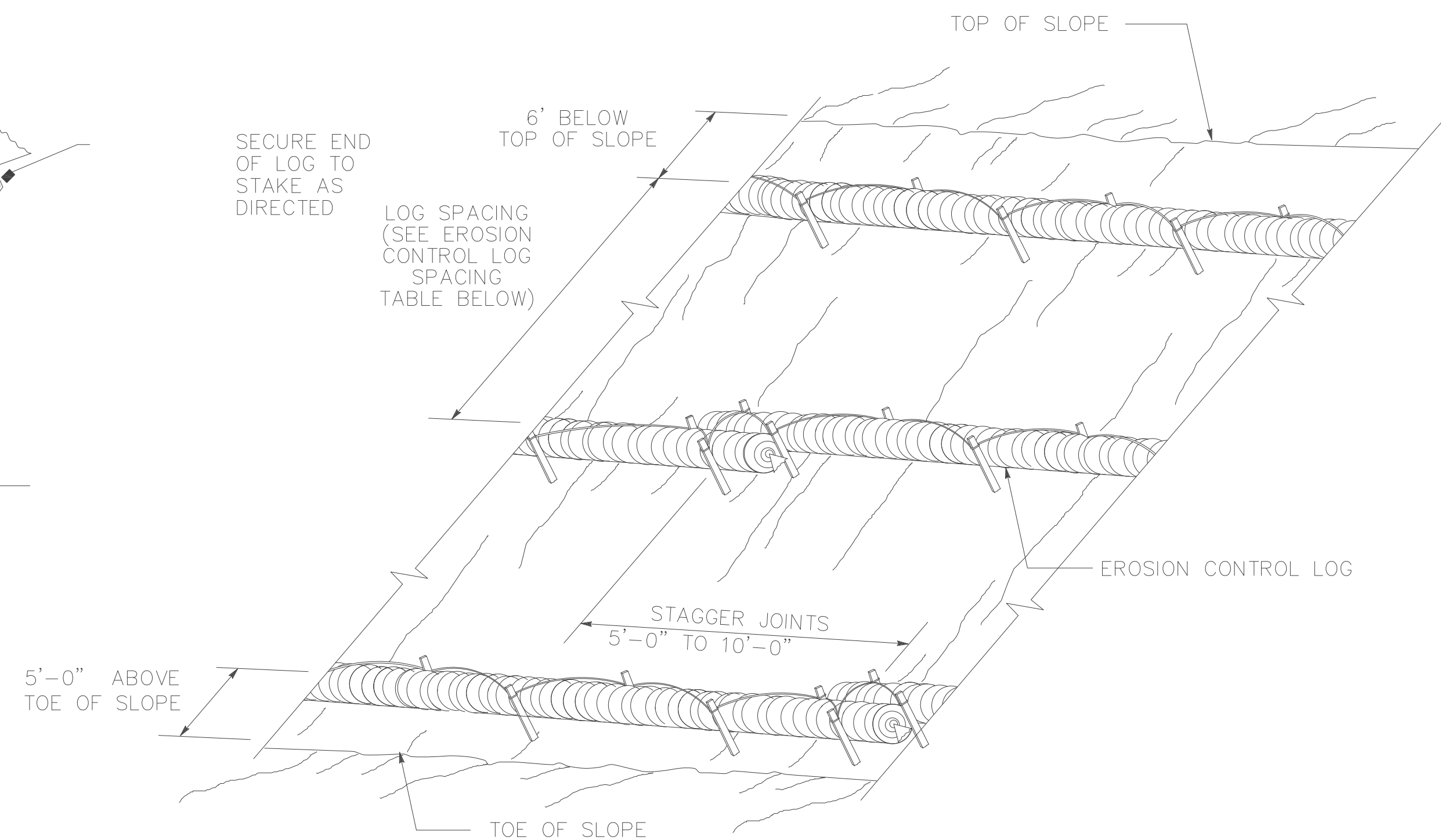
CL-SST



END SECTION RAP DETAIL

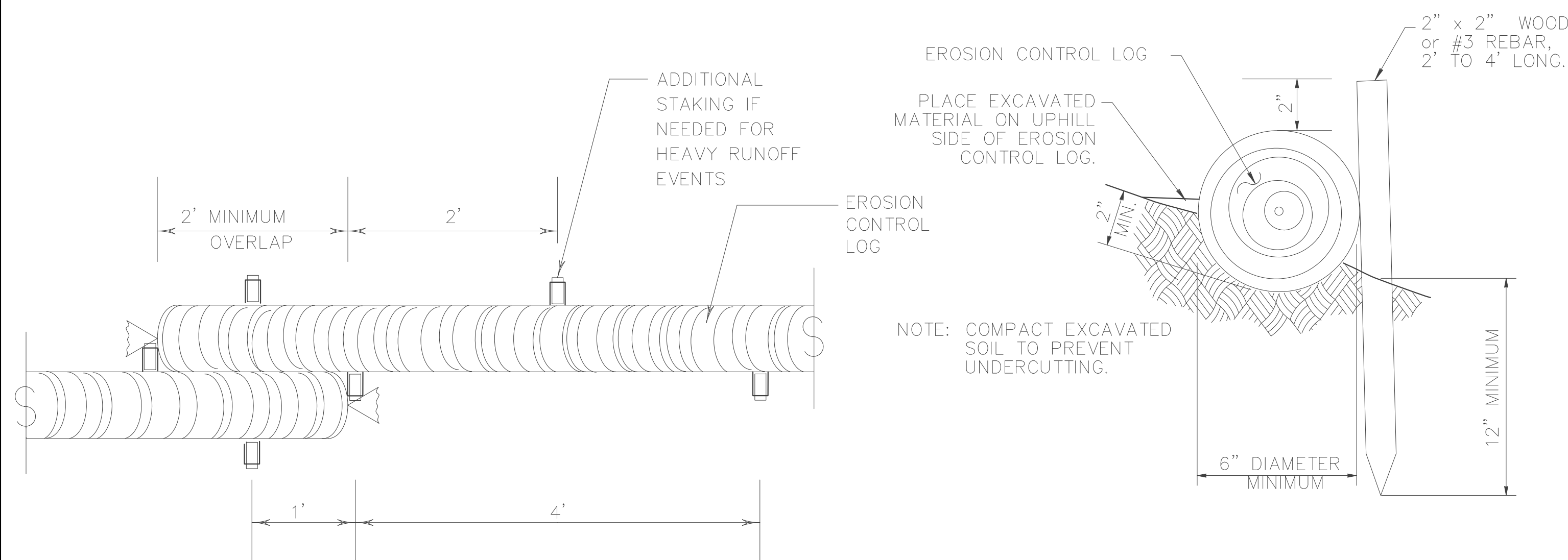
EROSION CONTROL LOG SPACING TABLE				
SLOPE	LOG DIAMETER			
	6"	8"	12"	18"
1:1 OR STEEPER	5'	10'	15'	20'
2:1	10'	20'	30'	40'
3:1	15'	30'	45'	60'
4:1 OR FLATTER	20'	40'	60'	80'

* ADJUSTMENTS CAN BE MADE FOR SOIL TYPE:
SOFT, LOAMY SOILS-ADJUST ROWS CLOSER TOGETHER;
HARD, ROCKY SOILS- ADJUST ROWS FARTHER APART



EROSION CONTROL LOGS ON SLOPES
STAKE AND LASHING ANCHORING

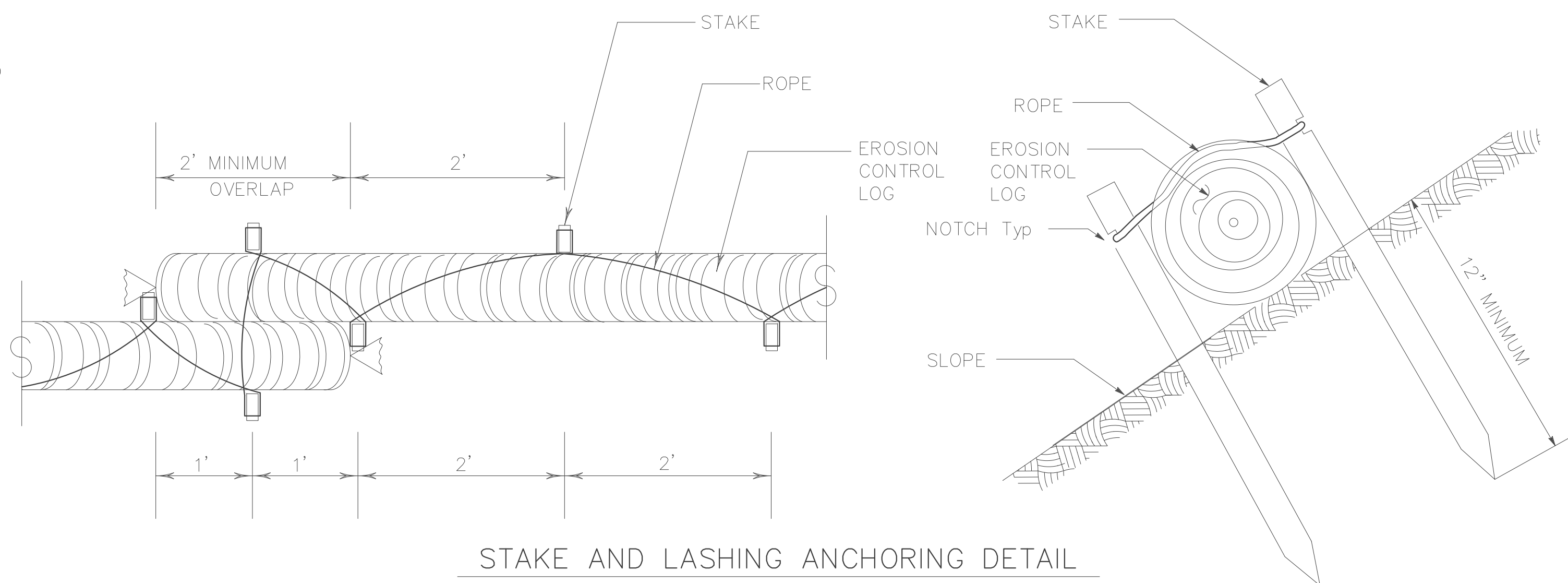
CL-SSL



STAKE AND TRENCHING ANCHORING DETAIL

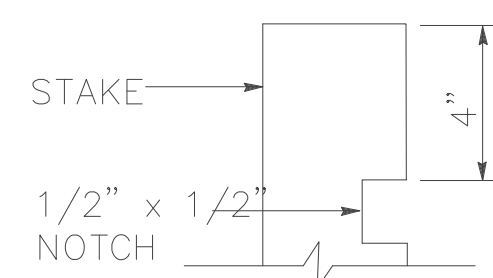
CL-SST

TRENCH DEPTH TABLE	
LOG DIAMETER	DEPTH
6"	2"
8"	3"
12"	4"
18"	5"




STAKE AND LASHING ANCHORING DETAIL

CL-SSL



STAKE NOTCH DETAIL

SHEET 2 OF 3

**Texas Department of Transportation**

Design Division Standard

TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES
EROSION CONTROL LOG
EC(9)-16

FILE: ec116	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS
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TRDI OFFICE AND WAREHOUSE
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TEMPORARY SEDIMENT & WATER
POLLUTION CONTROL MEASURES
EC(9)-16

SHEET NAME:

12

SHEET No.:

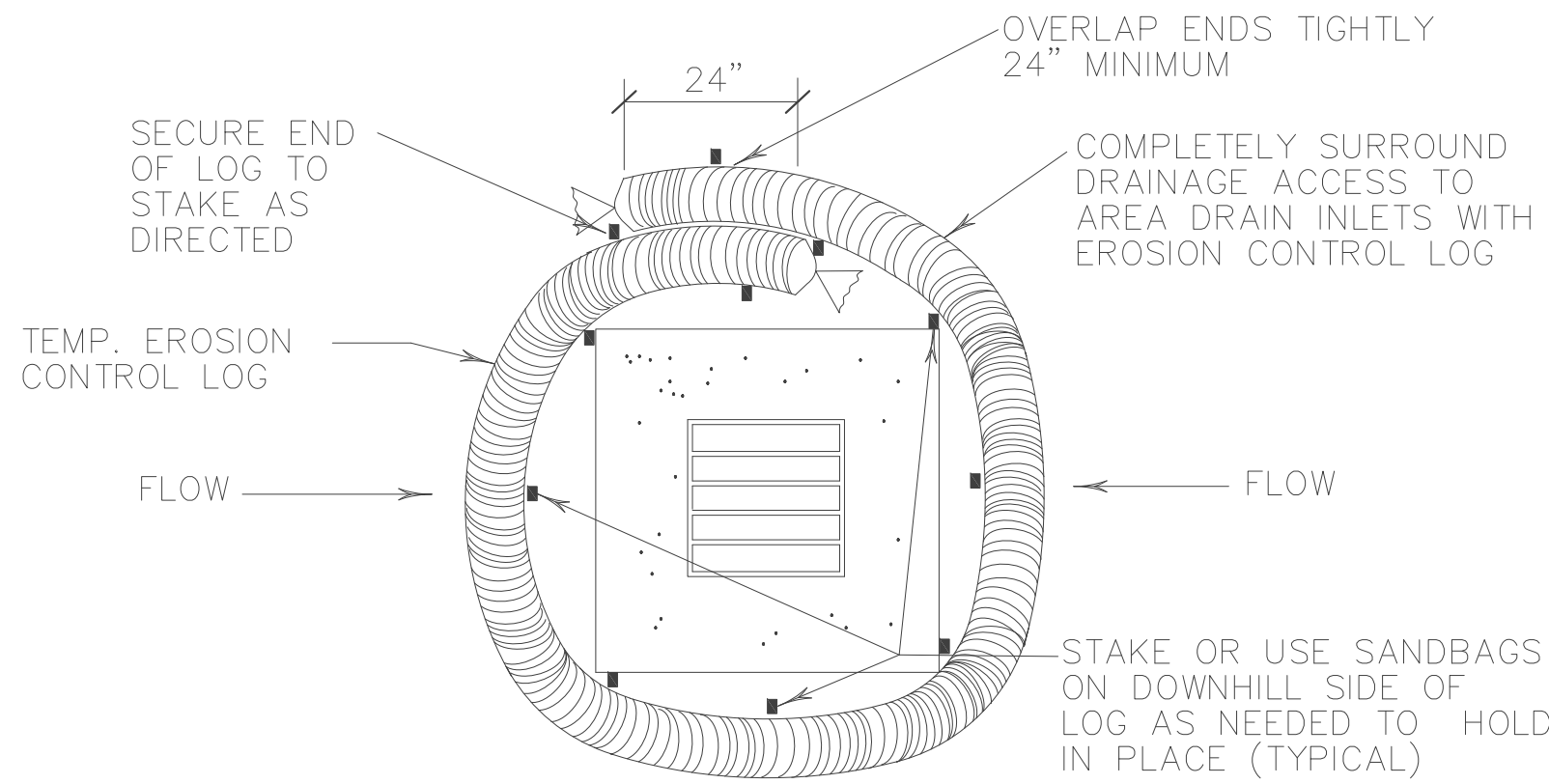
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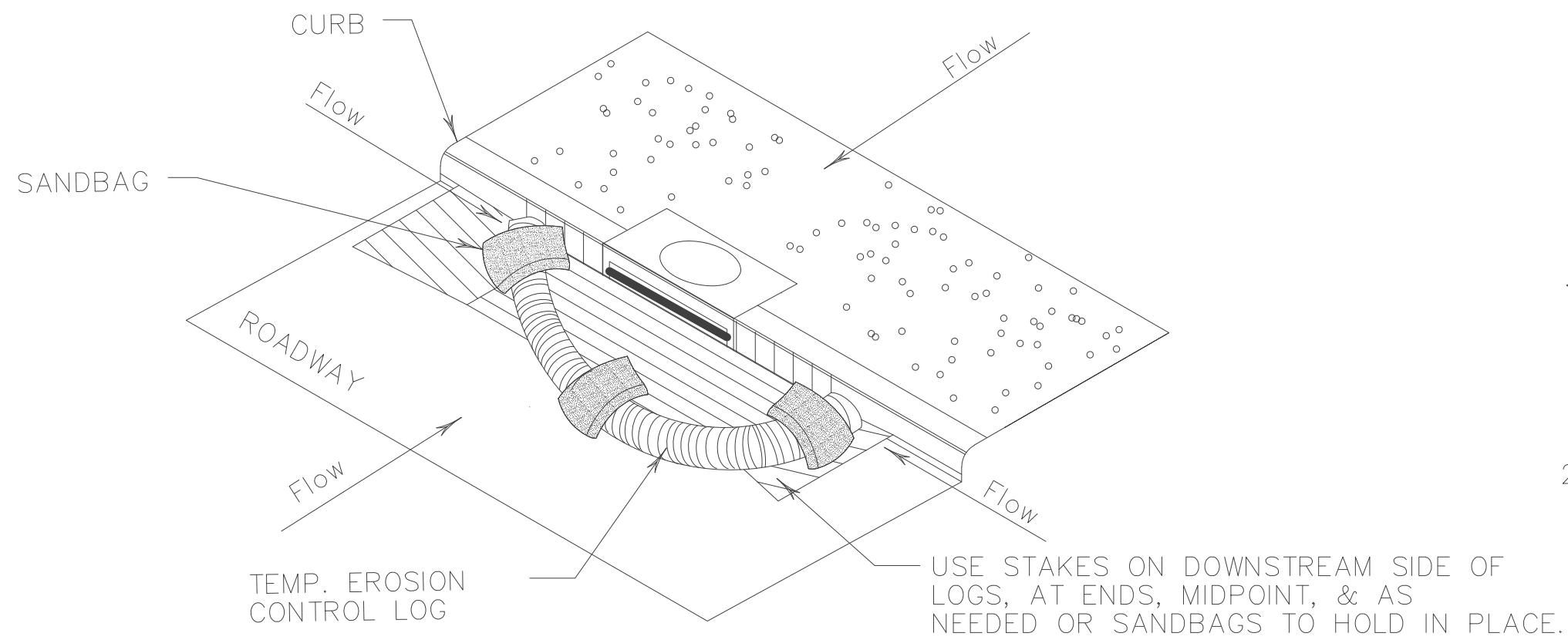
**RGV STRATA**
You just can't turn it off

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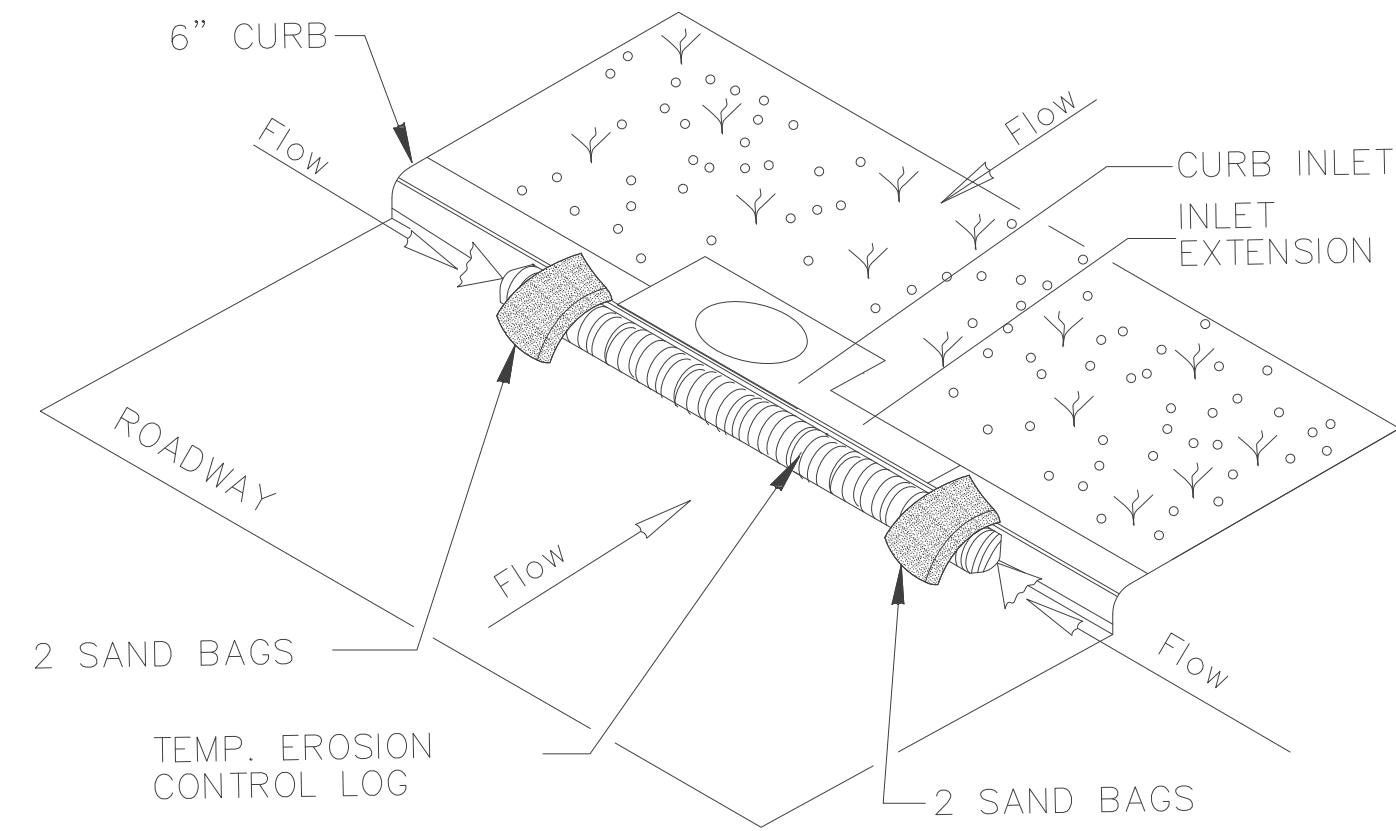
EROSION CONTROL LOG AT DROP INLET

CL-DI



EROSION CONTROL LOG AT CURB INLET

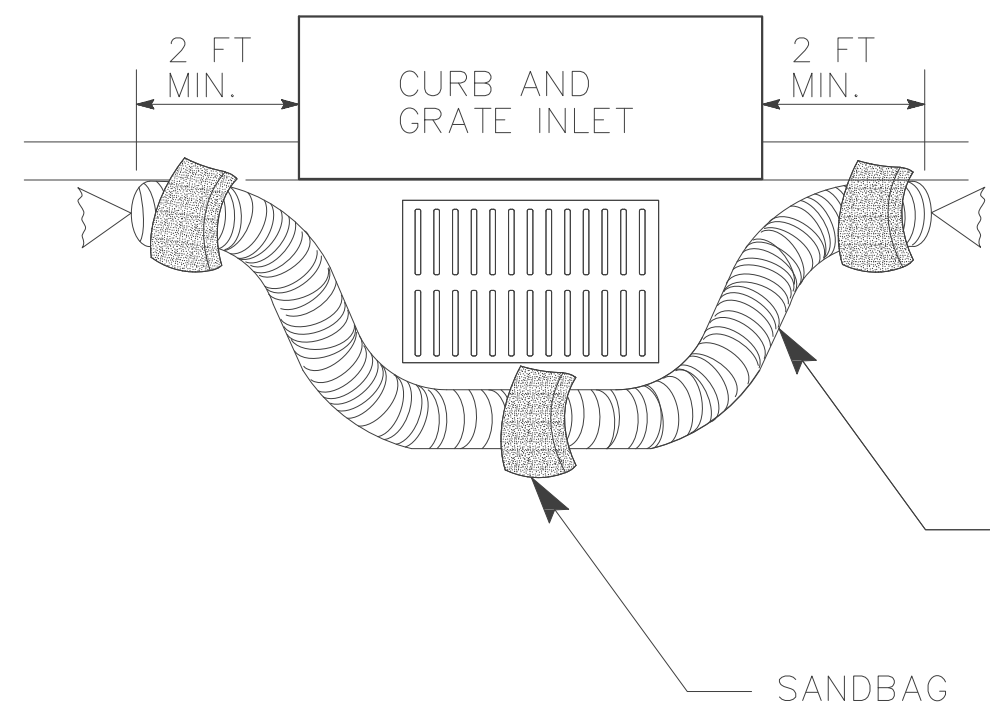
CL-CI



EROSION CONTROL LOG AT CURB INLET

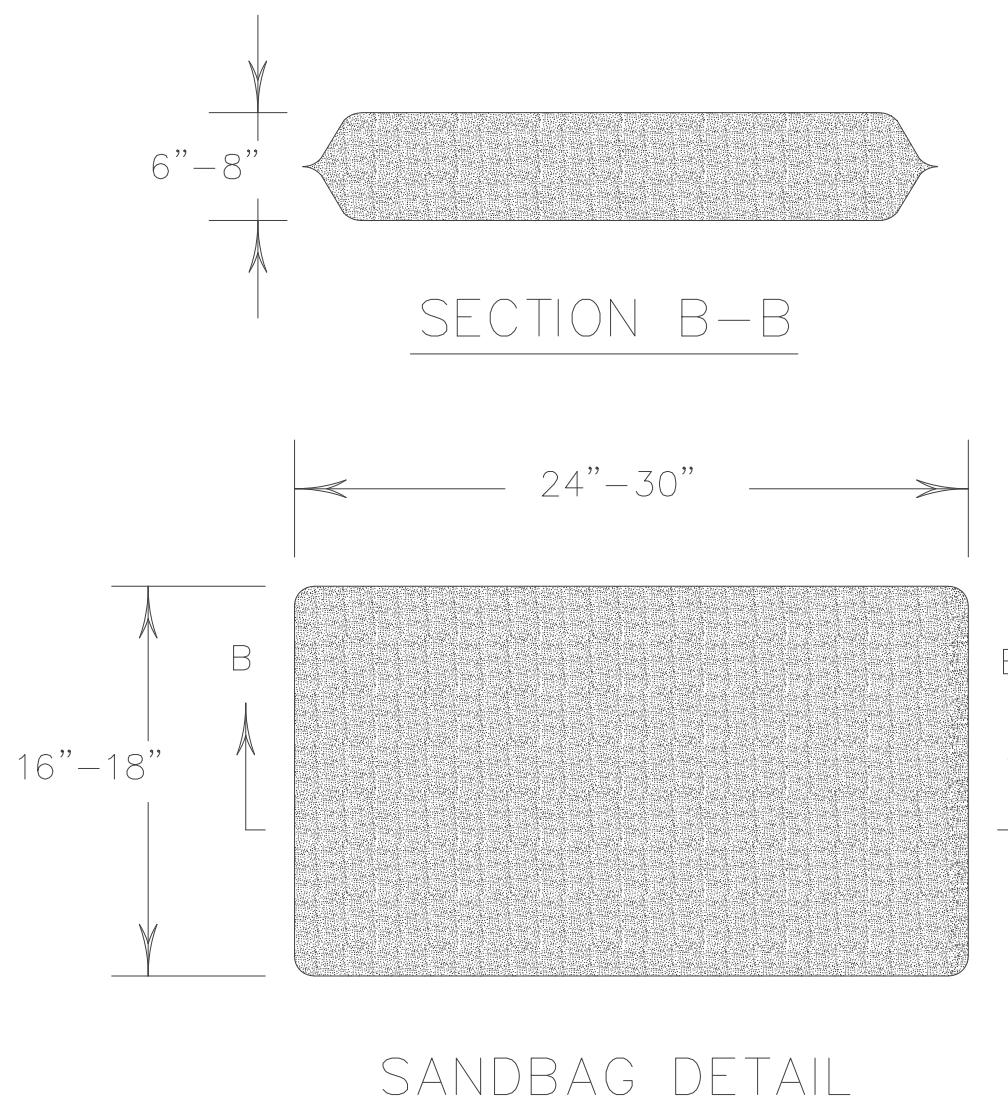
CL-CI

NOTE:
EROSION CONTROL LOGS USED AT CURB INLETS
SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE
TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE
STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.



EROSION CONTROL LOG AT CURB & GRADE INLET

CL-GI

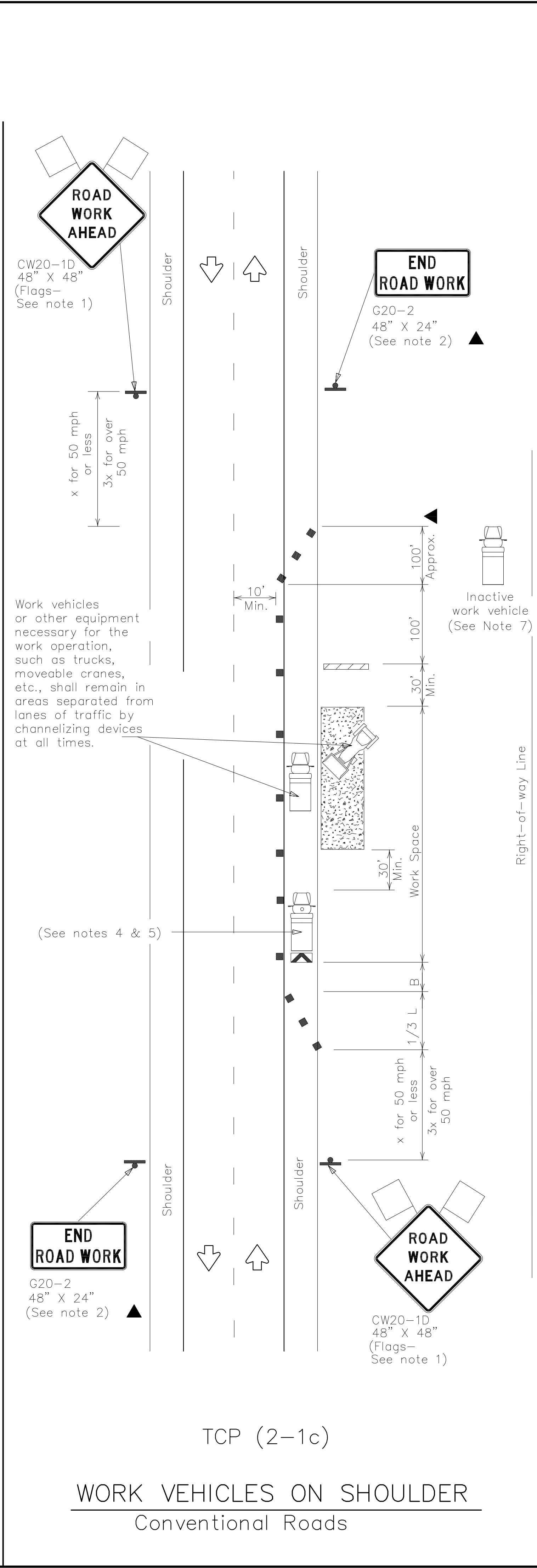
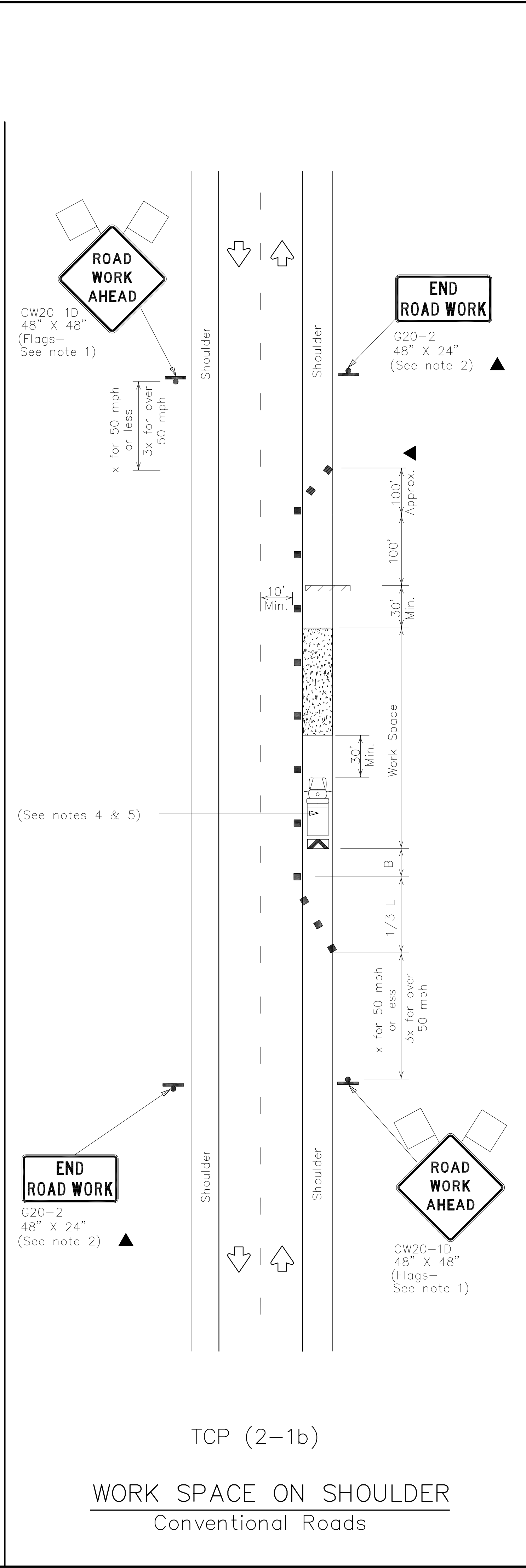
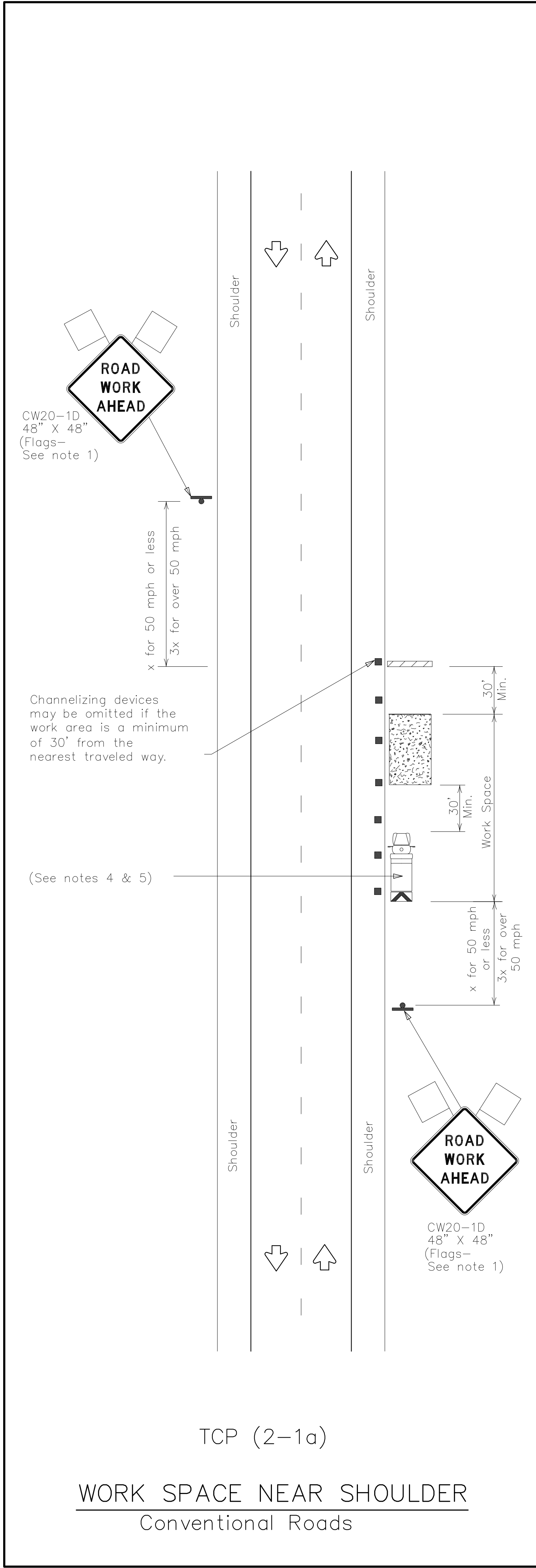


SHEET 3 OF 3		Texas Department of Transportation		Design Division Standard	
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES					
EROSION CONTROL LOG					
EC(9)-16					
FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS	
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REVISIONS		DIST		COUNTY	SHEET NO.



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TRDI OFFICE AND WAREHOUSE CONSTRUCTION PLANS	PHARR, TEXAS
TEMPORARY SEDIMENT & WATER POLLUTION CONTROL MEASURES	EC(9)-16
PROJECT:	13
SHEET NAME:	
SHEET No.:	



LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	✓

- GENERAL NOTES
- Flags attached to signs where shown, are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
 - Stockpiled material should be placed a minimum of 30 feet from nearest traveled way.
 - Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
 - See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
 - Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
 - CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
CONVENTIONAL ROAD SHOULDER WORK

TCP(2-1)-18

FILE: tcp2-1-18.dgn	DN:	CK:	DW:	CK:
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REVISIONS	DIST	COUNTY	SHEET NO.	
2-94 4-98				
8-95 2-12				
1-97 2-18				

TRDI OFFICE AND WAREHOUSE
CONSTRUCTION PLANS
PHARR, TEXAS

TXDOT TRAFFIC CONTROL PLAN
TCP(2-1)-18

PROJECT: 14

SHEET NAME: SHEET No.: 14

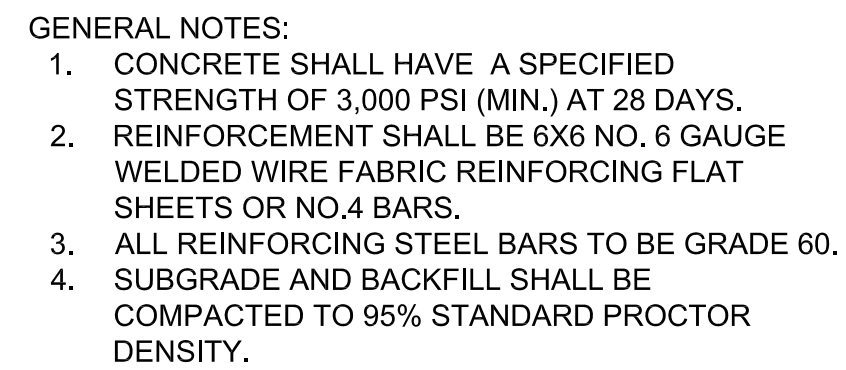
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Texas Registered Surveying Firm
TSPLS FIRM No:10194417
4807 Gondola Avenue,
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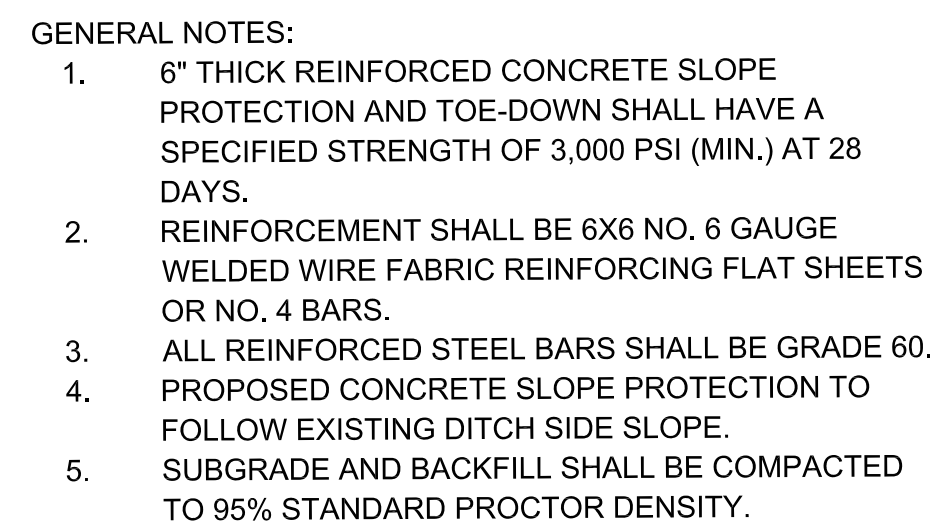
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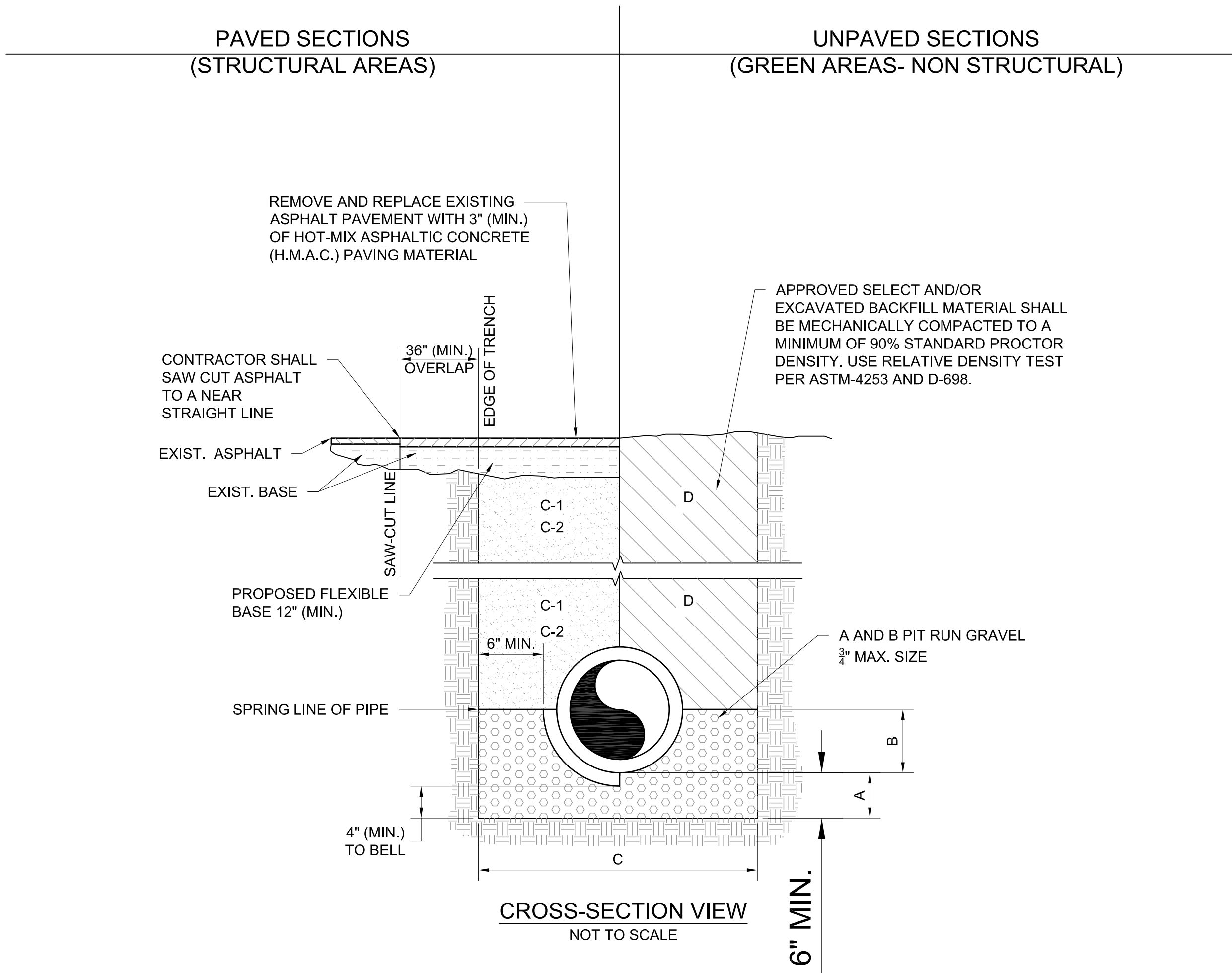


TOC - TOP OF CURB
FL - FLOW LINE
TOS - TOP OF SWALE
BOS - BOTTOM OF SWALE
SFL - SWALE FLOW LINE



CAST-IN-PLACE CONCRETE SLOPE PROTECTION (OUTFALL)DETAILS

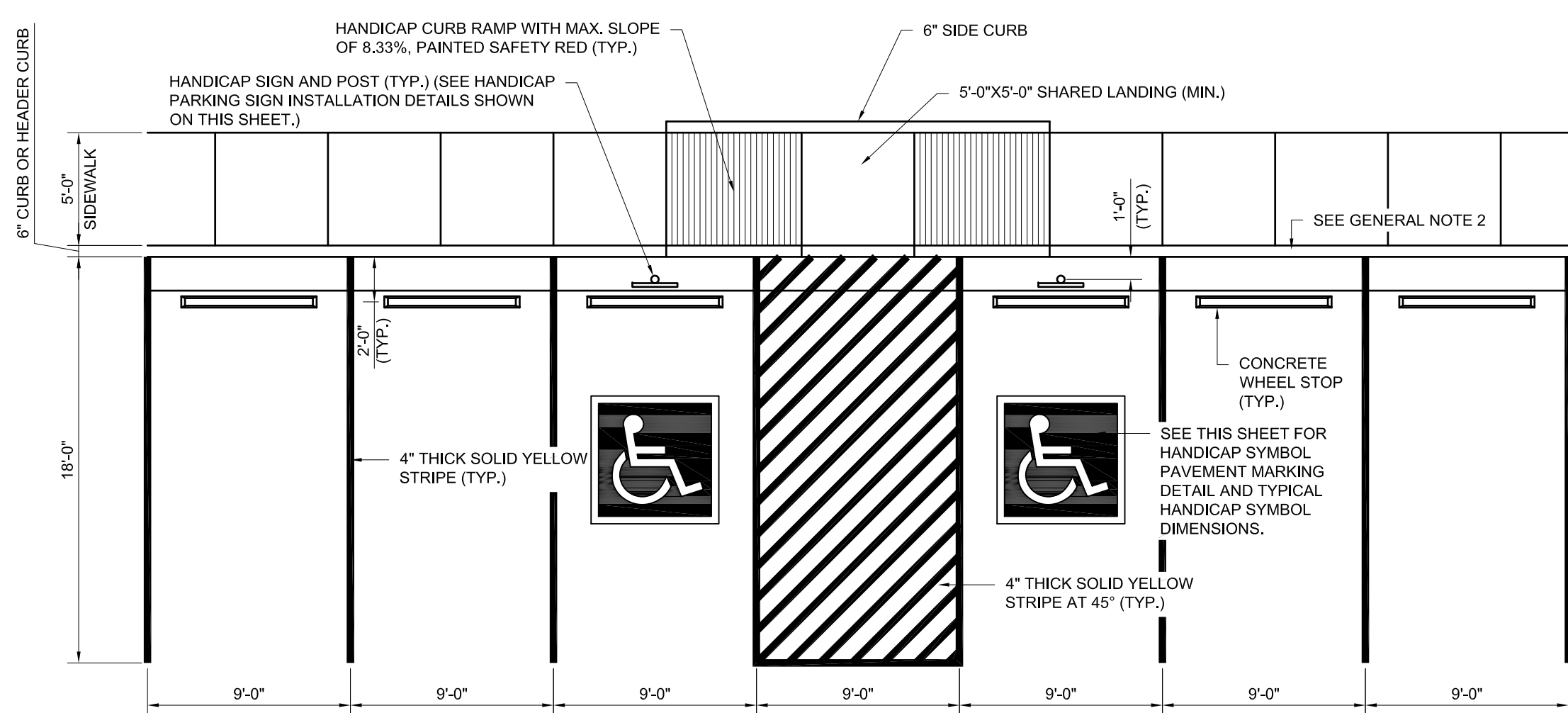
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						SCALE:		AS NOTED													
						DRAWN BY:		J.C.													
						CHECKED BY:		M.C.													
SHEET No.:		GENERAL																			



GENERAL NOTES:

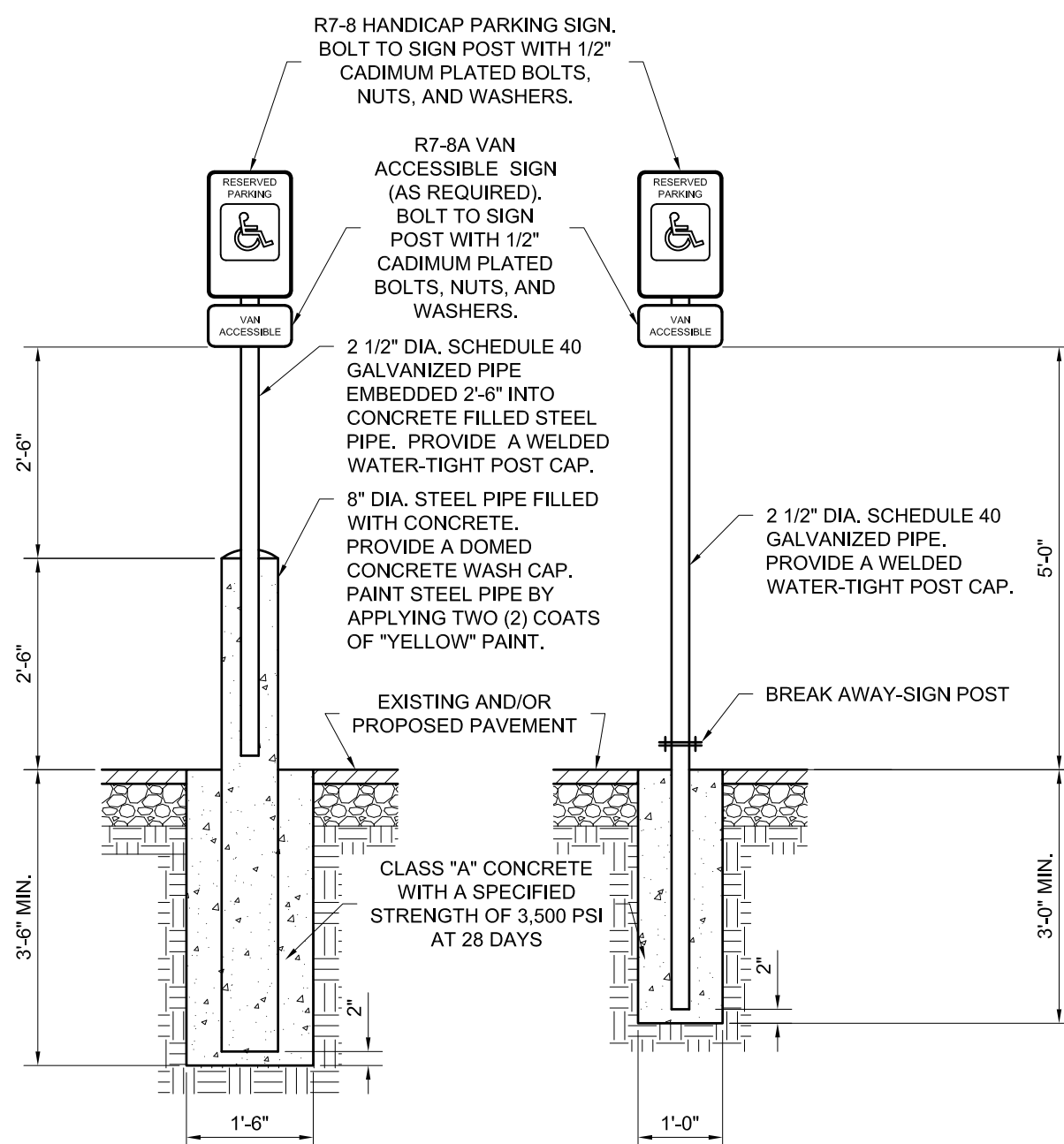
- A. GRAVEL BEDDING (PIT RUN GRAVEL $\frac{3}{4}"$ MAX. SIZE) SHALL BE PLACED BEFORE PIPE IS LAID IN PLACE. (MIN. BEDDING THICKNESS SHALL BE 6") - PIT RUN GRAVEL $\frac{3}{4}"$ MAX. SIZE.
- B. GRAVEL (PIT RUN GRAVEL $\frac{3}{4}"$ MAX. SIZE) SHALL BE PLACED AFTER PIPE IS LAID IN PLACE FROM BOTTOM OF PIPE TO THE SPRING LINE OF PIPE.
- C. TRENCH WIDTHS SHALL BE PIPE BELL O.D.+12".
- C-1. (CITY STREETS, PARKING AREA, DRIVEWAYS) APPROVED SELECT AND/OR EXCAVATED BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN 8" LIFTS.
- C-2. (STATE MAINTAINED ROADWAYS) CEMENT-STABILIZED SAND BACKFILL MATERIAL, COMPOSED OF 7% PORTLAND CEREMENT, SHALL BE MECHANICALLY COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. USE RELATIVE DENSITY TEST PER ASTM D-4253 AND ASTM D-698.
- D. APPROVED SELECT AND/OR EXCAVATED BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY IN 12" LIFTS (GREEN AREA NON-STRUCTURAL). FOUNDATION PREPARATION (WELL POINTS, GRAVEL OR CEMENT-STABILIZED SAND, SELECT SOIL, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LIFTS, MOISTENED, AS REQUIRED, TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. USE RELATIVE DENSITY TEST PER ASTM D-4553 AND ASTM D-698. THE THICKNESS OF EACH LOOSE LIFT SHALL NOT EXCEED 6". APPROVED STRUCTURAL BACKFILL MATERIAL SHALL BE SAND, CEMENT-STABILIZED SAND, SITE SOIL, OR OTHER APPROVED SUBSTITUTE.
- E. BEFORE ATTEMPTING TO INSTALL STORM SEWER PIPE IN PLACE, BE SURE THAT THE TRENCH EXCAVATION HAS BEEN BENCHED, SLOPED, OR SHORED PROPERLY IN ACCORDANCE TO OSHA REQUIREMENTS AND STANDARDS. HOWEVER, WHEN BENCHING, SLOPING OR SHORING IS RESTRICTED DUE TO LIMITED WORKING AREA OR SPACE, TRENCH SHIELDS (TRENCH BOXES) CAN BE USED IN ACCORDANCE TO OSHA REQUIREMENTS AND STANDARDS.

STORM PIPE TRENCH BEDDING DETAIL



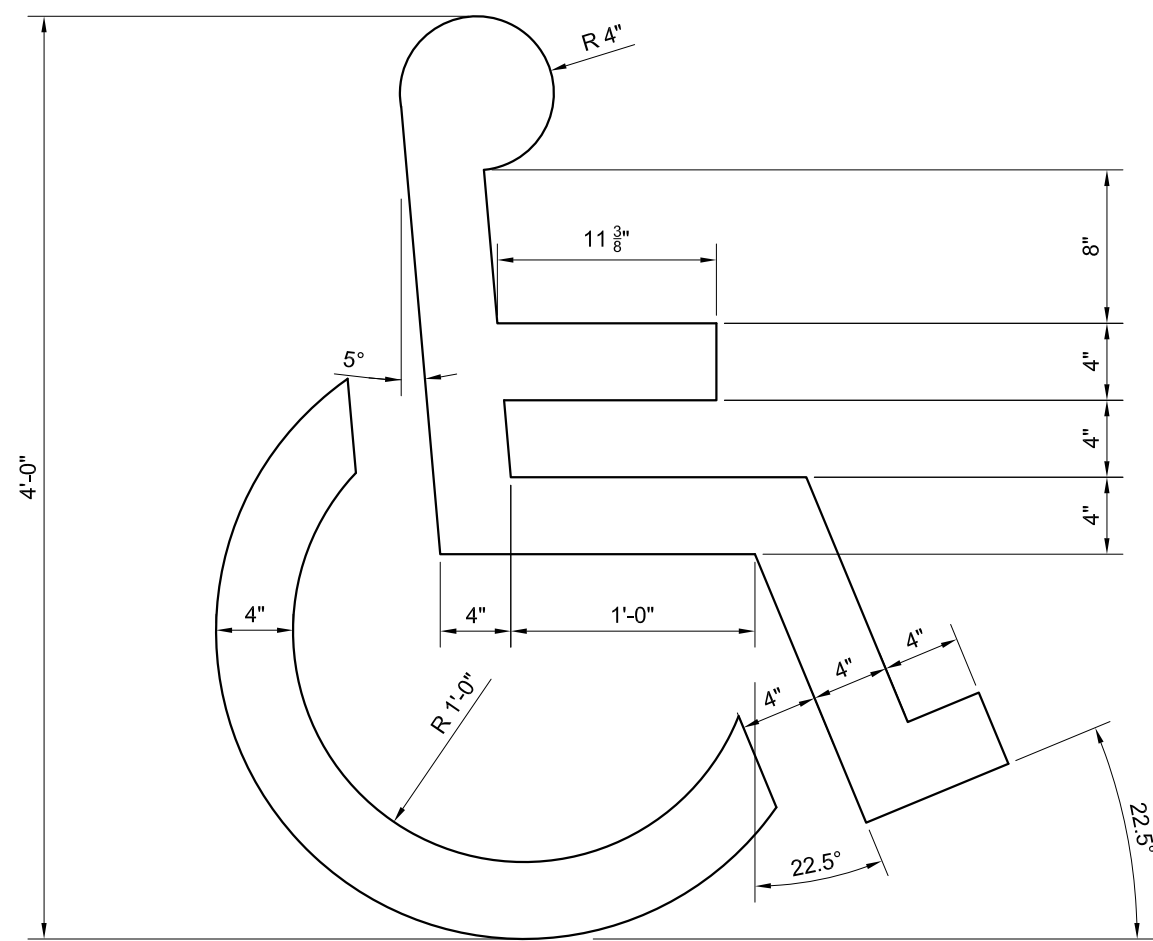
TYPICAL HANDICAP PARKING AND STRIPING

SCALE: 3/8"=1'-0"



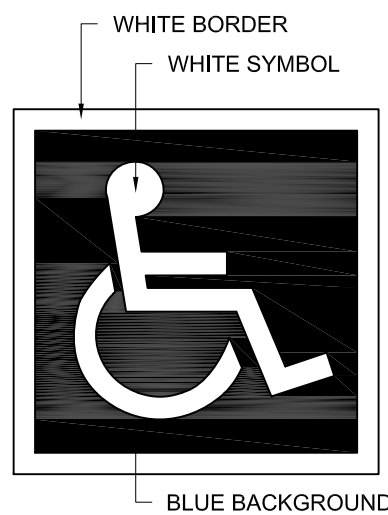
HANDICAP PARKING SIGN INSTALLATION

SCALE: 3/8"=1'-0"



TYPICAL HANDICAP SYMBOL DIMENSIONS

SCALE: 3/8"=1'-0"



HANDICAP SYMBOL PAVEMENT MARKING

NOT TO SCALE

GENERAL NOTES:

- ALL SIGNS AND MARKINGS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE WITH TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD) UNLESS OTHERWISE SHOWN OR DIRECTED.
- INSTALL A 6-INCH WIDE BY A 12-INCH THICK REINFORCED CONCRETE HEADER CURB WHEN SIDEWALK IS ADJACENT TO OR ABUTS TO ASPHALT PAVEMENT.
- PAINT HANDICAP SYMBOL (WHITE), BACKGROUND (BLUE), AND BORDER (WHITE) AT EACH HANDICAP PARKING SPACE PER HANDICAP SYMBOL PAVEMENT MARKING DETAILS SHOWING THIS SHEET.
- CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP, LANDING, OR TRANSITION TO PARKING LOT.

TRDI OFFICE AND WAREHOUSE
CONSTRUCTION PLANS
PHARR, TEXAS

CITY OF PHARR STANDARDS

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SHEET NAME:

Carrazales Land Surveying, LLC
Texas Registered Surveying Firm
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RGV STRATA
You just can't turn it off

REVISIONS		DESCRIPTION	BY	DATE	NO.

