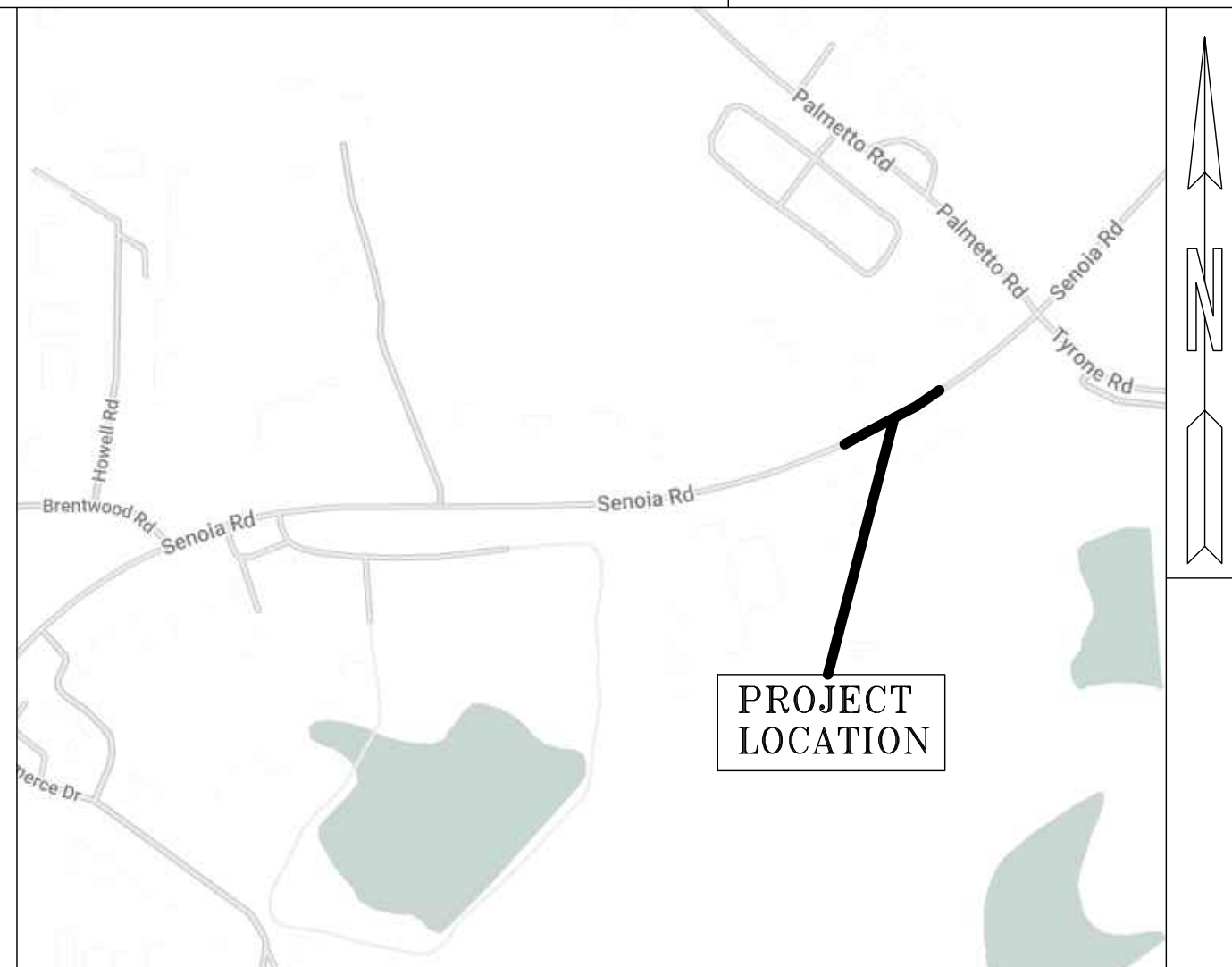


CONSTRUCTION PLANS FOR SENOIA ROAD STREETSCAPE IMPROVEMENTS

TOWN OF TYRONE, FAYETTE COUNTY, GEORGIA

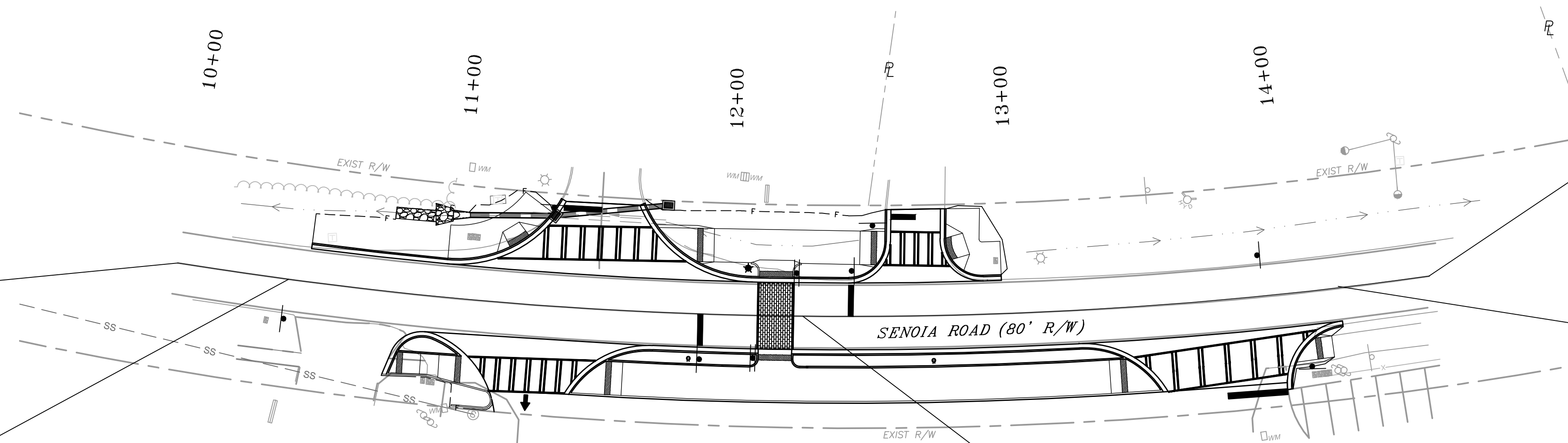


LOCATION SKETCH

FUNCTIONAL CLASS:
MINOR ARTERIAL

PROJECT DESIGNATION:
DESIGNED IN ENGLISH UNITS

SPEED DESIGN: 30 MPH



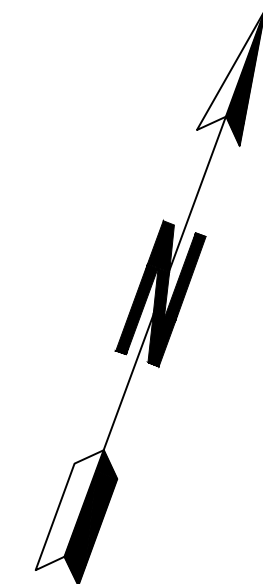
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STA: 14+51.25
N 1265898.0395
E 2167594.1731

END CONSTRUCTION
STA: 14+18.39
N 1265881.2504
E 2167565.9310

BEGIN PROJECT
STA: 10+00.00
N 1265723.3499
E 2167179.9240

BEGIN CONSTRUCTION
STA: 10+40.28
N 1265733.8275
E 2167218.8213

PROJECT MIDPOINT
STA: 12+25.63
N 1265795.1833
E 2167393.5172

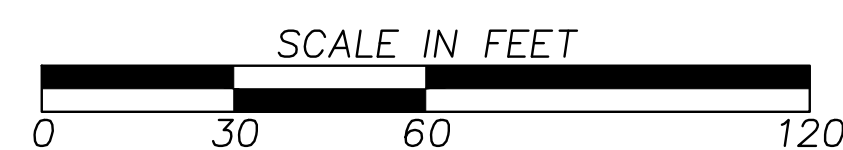


PREPARED BY: NICHOLAS ANDRYUSKY, PE
KECK & WOOD, INC

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

NOTE : ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO " STATE HIGHWAY DEPARTMENT OF GEORGIA ", "STATE HIGHWAY DEPARTMENT ", GEORGIA STATE HIGHWAY DEPARTMENT ", " HIGHWAY DEPARTMENT ", OR " DEPARTMENT " WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



LENGTH OF PROJECT	COUNTY No.113 Project No. 220341
	MILES
NET LENGTH OF ROADWAY	0.08
NET LENGTH OF BRIDGES	0.00
NET LENGTH OF PROJECT	0.08
NET LENGTH OF EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	0.08

PLANS COMPLETED	01-09-2024
REVISIONS	

DRAWING No.
01-0001

Keck+Wood
COLLABORATION BY DESIGN
3090 PREMIERE PARKWAY, SUITE 200
DULUTH, GA 30097
(678) 417-4000
keckwood.com

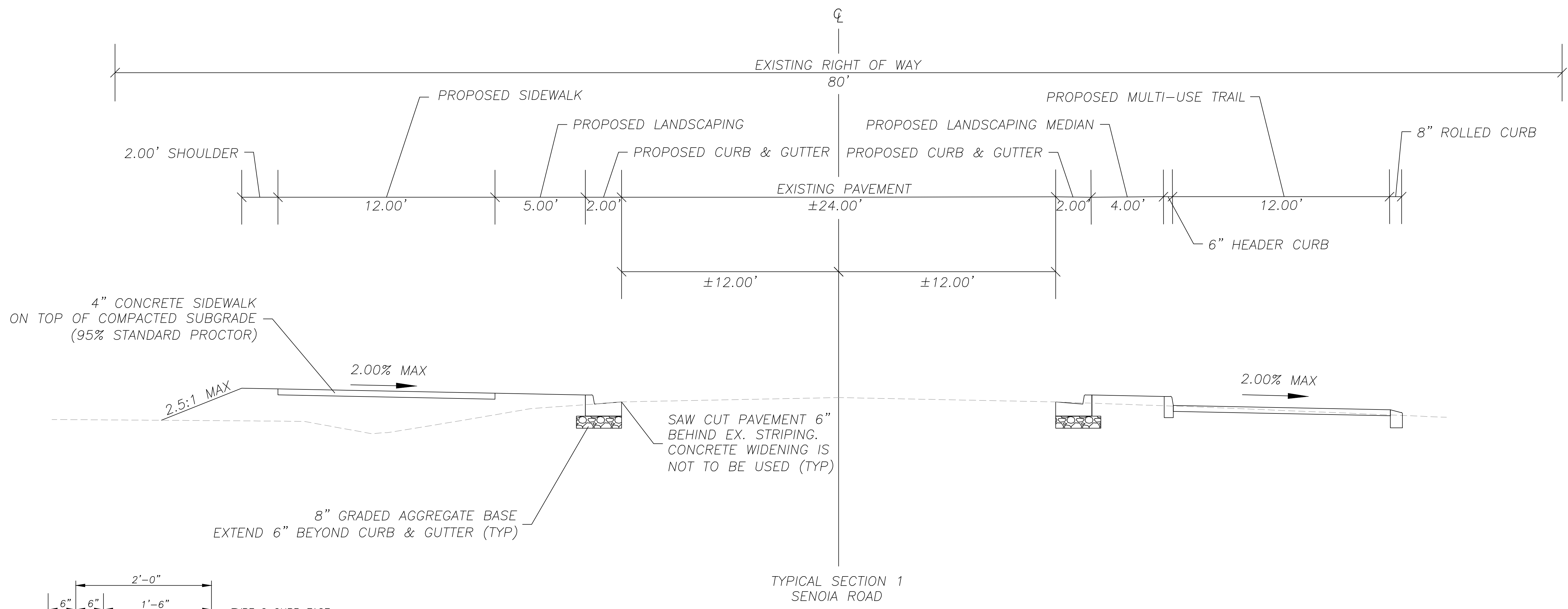
GENERAL NOTES

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE CURRENT GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARD DETAILS AND THE GDOT STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEMS, LATEST EDITION, AND SUPPLEMENTS THERETO, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
 2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY UNDER THIS REQUIREMENT EXCEPT AS NOTED BELOW. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION. THE CONTRACTOR WILL NOT BE HELD RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE FROM STREET MAINS TO ABUTTING PROPERTY, WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURING, PROVIDED THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS. ALL UTILITY FACILITIES WHICH ARE IN CONFLICT WITH CONSTRUCTION AND ARE NOT COVERED AS SPECIFIC ITEMS IN THE DETAILED ESTIMATE ARE TO BE REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF THE WORK.
 3. UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUBSECTION 105.06 OF THE GDOT STANDARD SPECIFICATIONS "COOPERATION WITH UTILITIES"
 4. ALL UNDERGROUND UTILITIES ARE TO BE LOCATED BY THE UTILITY OWNER OR A "LOCATE" FIRM PRIOR TO EARTH DISTURBING ACTIVITIES.
 5. IF PERMIT WORK IS WITHIN 1000 FEET OF A GDOT TRAFFIC SIGNAL, A SEPARATE LOCATE REQUEST IS REQUIRED. FOR MORE INFORMATION, CALL 770-531-5856.
 6. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED SUFFICIENT TO RETARD DUST. ALL COSTS FOR DUST CONTROL SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE - LUMP SUM.
 7. TYPE OF GRASS OR SOD USED ON THIS PROJECT WILL BE REQUIRED TO MATCH ANY TYPE OF GRASS OR SOD WHICH MAY BE PLANTED AND GROWING ON THE ADJACENT LAWN. I.E. BERMUDA SOD FOR BERMUDA SOD, ZOYSIA FOR ZOYSIA ETC. NO SEPERATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
 8. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GDOT STANDARD SPECIFICATIONS.
 9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL.
 10. HORIZONTAL CONTROL IS BASED UPON GEORGIA STATE PLANE COORDINATION SYSTEM.
 11. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE IN KIND I.E. CONCRETE FOR CONCRETE. OFTEN WITH URBAN SHOULDERS, VALLEY GUTTER IS USED. THIS IS A SEPARATE PAY ITEM FROM THE REST OF THE DRIVEWAY PAVEMENT MATERIALS. WITH CONCRETE DRIVEWAYS THE VALLEY GUTTER THICKNESS SHOULD NOT BE LESS THAN THE CONCRETE THICKNESS.
- RESIDENTIAL DRIVEWAY
DRIVES SHALL BE CONSTRUCTED USING:
- CONCRETE - DRIVEWAY CONCRETE, 6" THICK
- COMMERCIAL DRIVEWAY
DRIVES NOT USING THE MAINLINE PAVEMENT SHALL BE CONSTRUCTED USING:
- CONCRETE - DRIVEWAY CONCRETE, 8" THICK, STEEL REINFORCED (SEE SHEET 38-0001)
12. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES.
 13. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLES 104.05 AND 107.07 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND SEQUENCE OF OPERATIONS IN REGARDS TO MAINTENANCE OF TRAFFIC DURING CONSTRUCTION.
 14. ALL TEMPORARY SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION AND/OR AS DIRECTED BY THE ENGINEER.
 15. ALL CUT AND FILL SLOPES SHALL BE GRASSED AS DIRECTED BY THE ENGINEER IMMEDIATELY AFTER THE SLOPES ARE ESTABLISHED IN ORDER TO REDUCE EROSION, IF THE SEASON DOES NOT PERMIT GRASSING, TEMPORARY MULCH SHALL BE USED AS DIRECTED BY THE ENGINEER. REFER TO SECTION 161 OF THE STANDARD SPECIFICATIONS.
 16. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBANCE ACTIVITIES AND SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION OR AS DIRECTED BY THE ENGINEER.
 17. ALL SILT FENCES MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING, NO GRADING SHALL BE DONE UNTIL SILT FENCE INSTALLATION IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SILT FENCES AND TO REPAIR OR REPLACE ANY SILT FENCE THAT IS NOT SATISFACTORY. EROSION CONTROL GATES SHALL BE PLACED IMMEDIATELY AFTER DRAINAGE STRUCTURES ARE IN PLACE. ALL EROSION CONTROL DEVICES SHALL BE PLACED ACCORDING TO THE PLANS AND AS DIRECTED BY THE ENGINEER. SEE THE GEORGIA STANDARD SPECIFICATIONS AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", CURRENT EDITION REGARDING EROSION CONTROL.
 18. TOWN OF TYRONE, FAYETTE COUNTY DOT, AND GEORGIA DOT SHALL BE NOTIFIED A MINIMUM OF 72 HOURS IN ADVANCE OF ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE THIS ACTION WITH THE PROJECT ENGINEER.
 19. CONTRACTOR TO ADJUST ALL UTILITIES TO FINISHED GRADE UNLESS NOTED OTHERWISE, INCLUDING SANITARY SEWER MANHOLES, WATER METERS, WATER VALVES, GAS METERS, GAS VALVES.
 20. ANY ADJUSTMENTS OR RELOCATIONS OF FAYETTE COUNTY DEPARTMENT OF PUBLIC WORKS' FACILITIES SHALL BE IN ACCORDANCE WITH THE DEPARTMENT'S "SPECIFICATIONS FOR THE CONSTRUCTION OF SEWER MAINS", WHICH IS AVAILABLE AT THE DEPARTMENT'S OFFICE AT 115 MCDONOUGH ROAD, FAYETTEVILLE, GEORGIA. TELEPHONE 770-461-3142
 21. CONTRACTOR TO CONFIRM LOCATIONS OF ALL UTILITIES AND INFORM ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
 22. CONTRACTOR TO FIELD VERIFY LOCATIONS OF PRECAST STRUCTURES FOR STORM SEWER IMPROVEMENTS. NO ADDITIONAL PAYMENT WILL BE MADE FOR REPLACEMENT STRUCTURES OR ADJUSTMENTS DUE TO UTILITY OR UNDERGROUND CONFLICTS.
 23. ALL ADA WHEELCHAIR RAMPS WITHIN RADII SHALL BE 8 INCH THICK CONCRETE.
 24. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND LOCATING ALL EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT LIMITS (IF APPLICABLE). NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVING RELOCATING, OR REPLACING DAMAGED IRRIGATION SYSTEMS.
 25. THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. SLOPE STABILIZATION (MATTING) SHALL BE PLACED ON CUT AND FILL SLOPES THAT ARE 2.5:1 OR GREATER.
 26. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAWED ON A LINE ESTABLISHED BY THE ENGINEER TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE.
 27. THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES (SUCH AS THE USE OF EASEMENTS, STAGING, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, TRAILER PLACEMENT, ETC.) OCCUR IN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES TO REMAIN IN THE RIGHT OF WAY.
 28. GRADING COMPLETE INCLUDES BUT IS NOT LIMITED TO MOBILIZATION, CLEARING, GRUBBING, GRADING, DEMOLITION, TEMPORARY MEASURES, SAWCUTTING PAVEMENT, RESETTING FENCE, RESETTING MAILBOXES, REPLACING EXISTING SIGNS AND SIGN POSTS, REMOVAL OF TREES AND STUMPS, REMOVAL OF CURB AND PAVEMENT, ADJUSTING MANHOLES, MANHOLE CURB ENTRANCE, 8" UNDERWAY PIPE, FIRE HYDRANTS, WATER VALVES, WATER METERS, AND OTHER UTILITIES TO FINISH GRADE, REPLACING SPECIAL DESIGN AND STANDARD CATCH BASIN TOPS, CONSTRUCTION TESTING, REPLACEMENT OF PRIVATE PROPERTY OWNER FEATURES (IN KIND OR TO THE SATISFACTION OF THE PRIVATE OWNER) DAMAGED OR REMOVED DURING CONSTRUCTION (THIS INCLUDES ITEMS INSIDE AND OUTSIDE THE CONSTRUCTION LIMITS). ANY ITEM NOT SPECIFIED SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR GRADING COMPLETE.



**Know what's below.
Call before you dig.**

	 <p>Keck+Wood COLLABORATION BY DESIGN 3090 PREMIERE PARKWAY, SUITE 200 DULUTH, GA 30097 (678) 417-4000 keckwood.com</p>		<p>REVISION DATES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>																									<p>GENERAL NOTES SENOIA ROAD STREETScape IMPROVEMENTS TOWN OF TYRONE, GEORGIA</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>CHECKED:</td> <td>DATE:</td> <td>DRAWING No.</td> </tr> <tr> <td>BACKCHECKED:</td> <td>DATE:</td> <td rowspan="3" style="font-size: 24pt;">04-0001</td> </tr> <tr> <td>CORRECTED:</td> <td>DATE:</td> </tr> <tr> <td>VERIFIED:</td> <td>DATE:</td> </tr> </table>	CHECKED:	DATE:	DRAWING No.	BACKCHECKED:	DATE:	04-0001	CORRECTED:	DATE:	VERIFIED:	DATE:
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4" CONCRETE SIDEWALK
ON TOP OF COMPACTED SUBGRADE
(95% STANDARD PROCTOR)

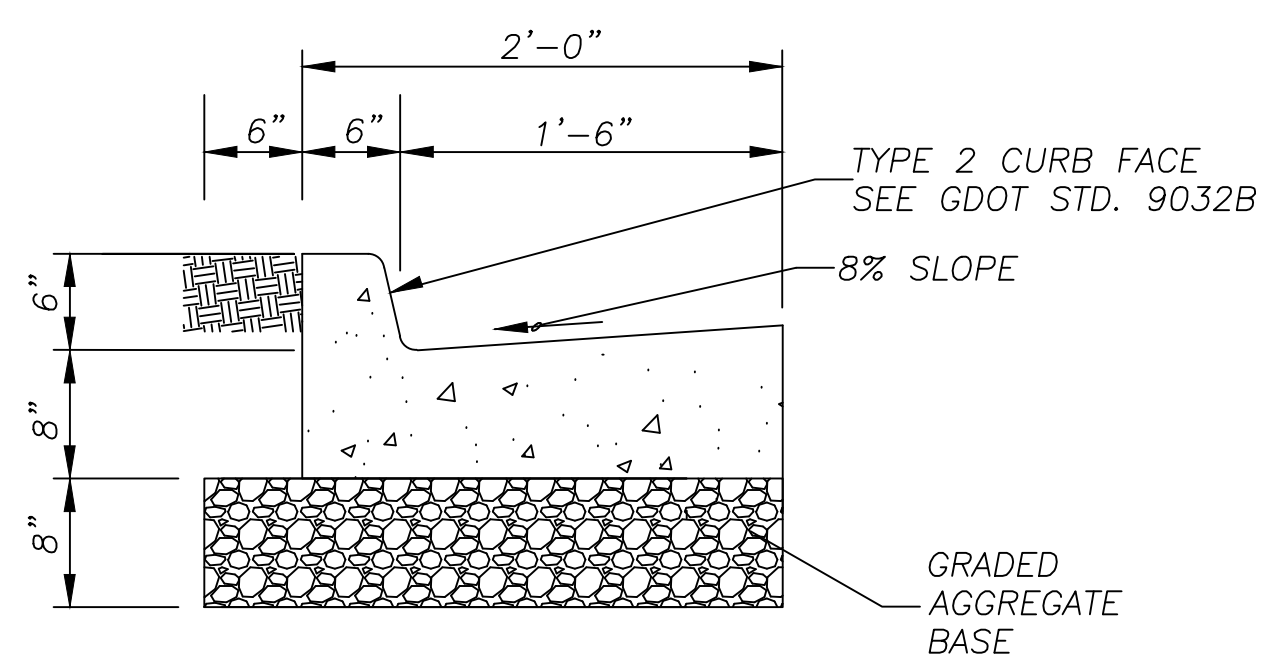
2.5:1 MAX

2.00% MAX

SAW CUT PAVEMENT 6"
BEHIND EX. STRIPING.
CONCRETE WIDENING IS
NOT TO BE USED (TYP)

8" GRADED AGGREGATE BASE
EXTEND 6" BEYOND CURB & GUTTER (TYP)

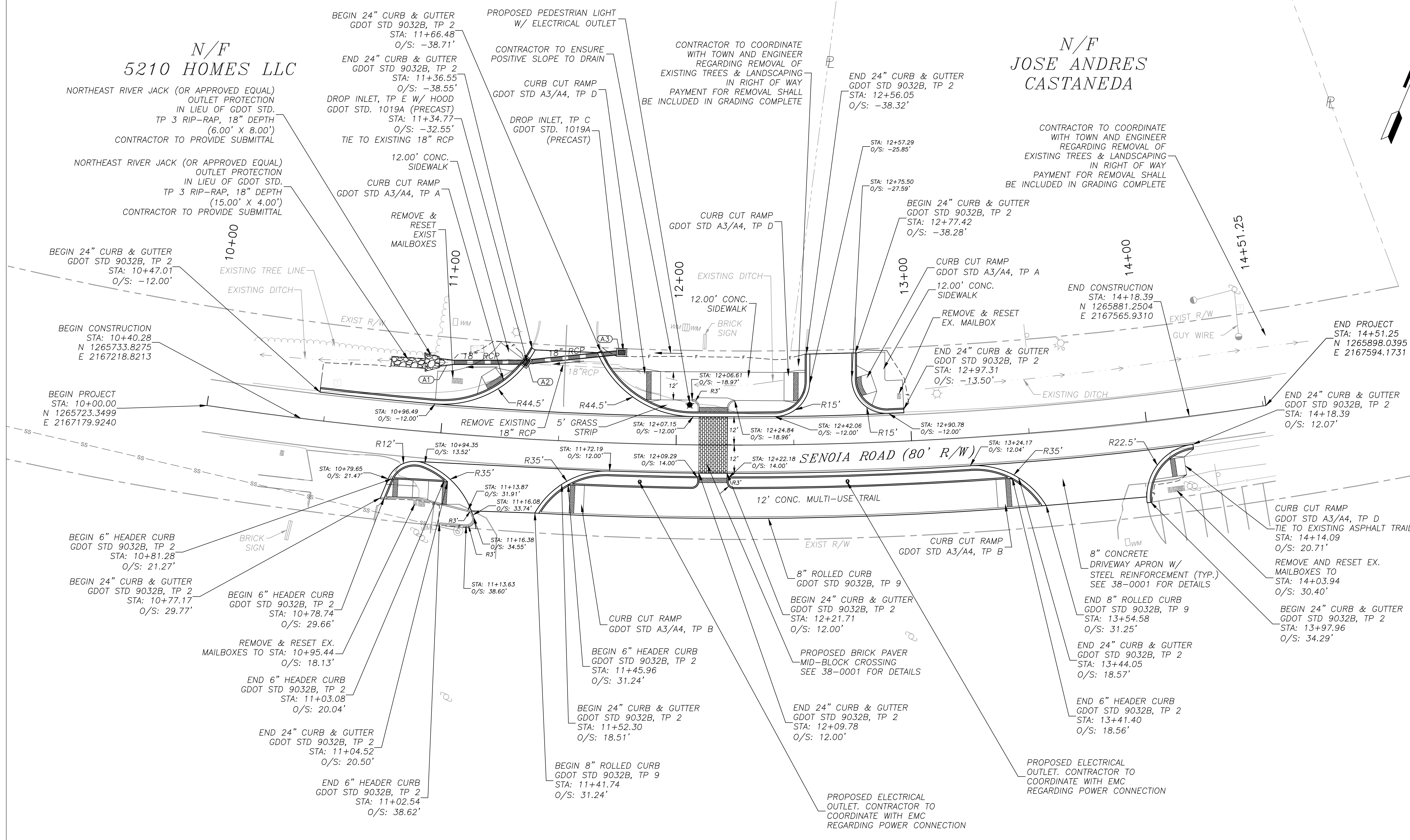
2.00% MAX



24" CURB AND GUTTER DETAIL
NOT TO SCALE



REVISION DATES			TYPICAL SECTIONS		
			SENOIA ROAD STREETScape IMPROVEMENTS TOWN OF TYRONE, GEORGIA		
			CHECKED:	DATE:	DRAWING No. 05-0001
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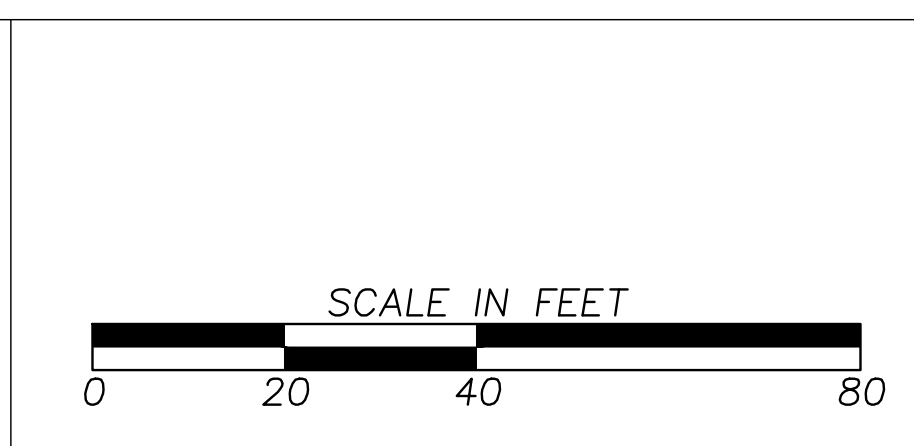


PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---G---F---
EASEMENT FOR CONSTR OF SLOPES	---G---F---
EASEMENT FOR CONSTR OF DRIVES	---G---F---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---

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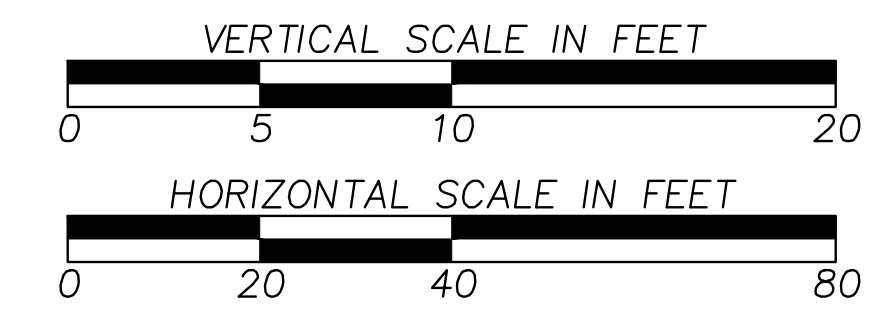
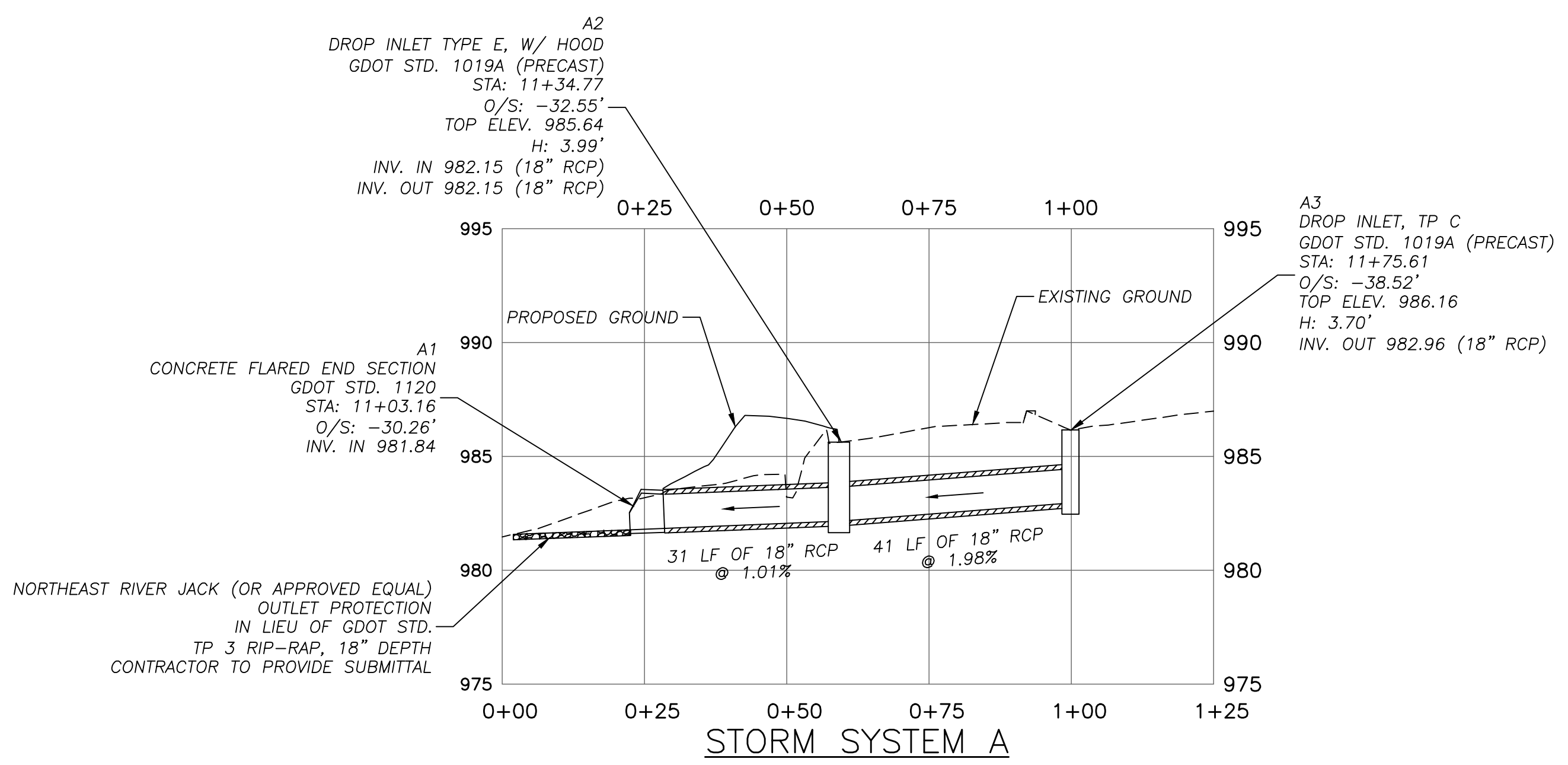
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REVISION DATES	

CONSTRUCTION PLANS
SENOIA ROAD STREETScape IMPROVEMENTS
TOWN OF TYRONE, GEORGIA

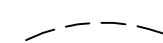
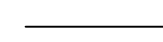
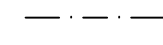
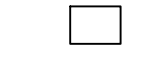
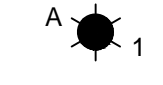
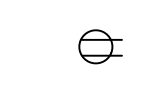
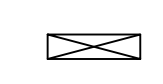

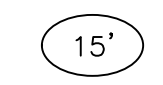
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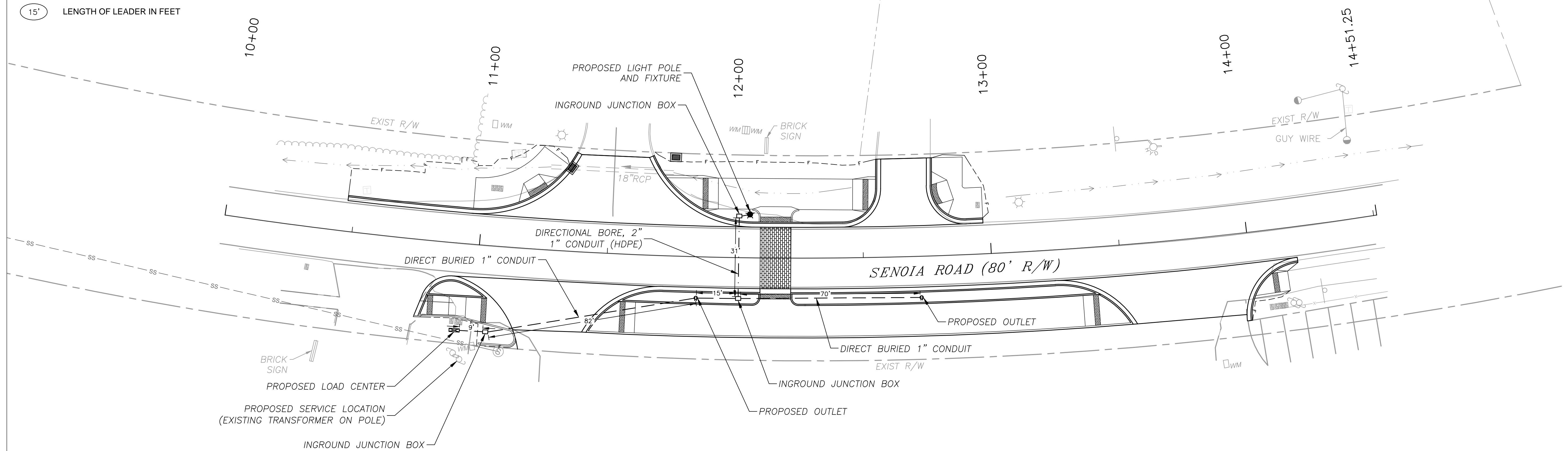
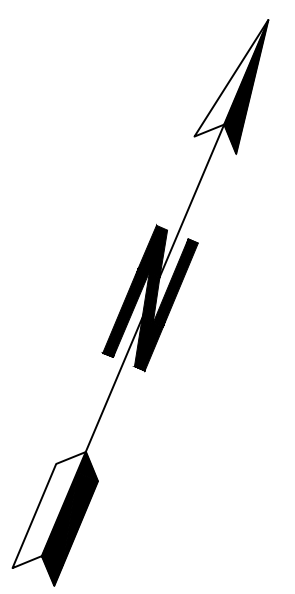
REVISION DATES	

DRAINAGE PROFILES			
SENOIA ROAD STREETScape IMPROVEMENTS			
TOWN OF TYRONE, GEORGIA			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	22-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

ELECTRICAL LEGEND

-  UNDERGROUND CONDUIT
-  EXPOSED CONDUIT
-  DIRECT BORE
-  INGROUND JUNCTION BOX
-  LIGHT FIXTURE, CAPITAL LETTER INDICATES TYPE, NUMBER INDICATES CIRCUIT
-  20AMP, 125V 3 WIRE GROUNDING GFCI DUPLEX OUTLET WITH BOX AND EXTRA DUTY COVERPLATE. NUMBER INDICATES CIRCUIT.
- TFROC TYPICAL FOR REMAINDER OF CIRCUIT
-  PANELBOARD
-  AVAILABLE SYMMETRICAL SHORT CIRCUIT CURRENT AT THE EQUIPMENT AS CALCULATED BY THE ENGINEER. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE A FULLY RATED SYSTEM
-  LENGTH OF LEADER IN FEET

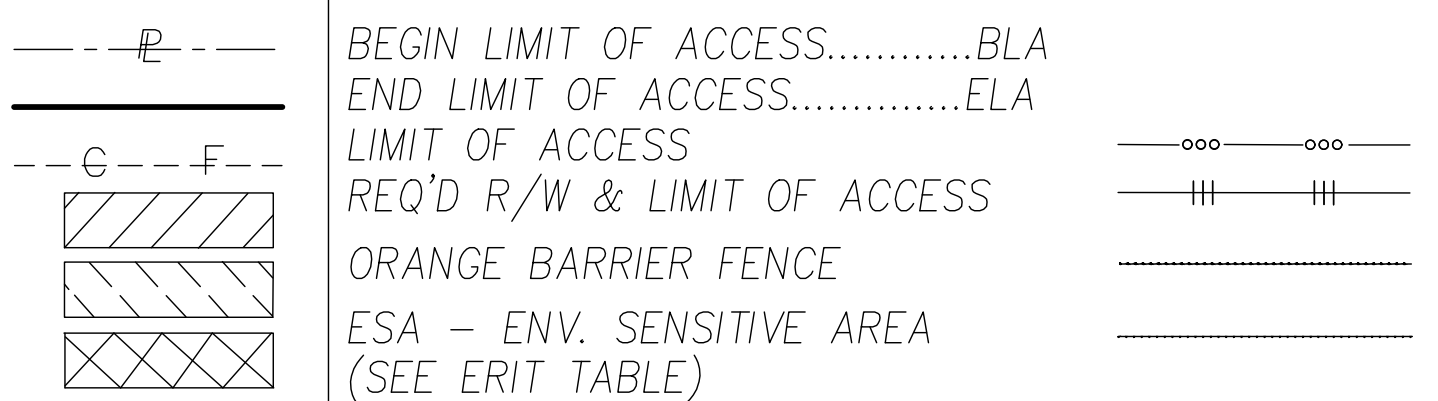
N/F
JOSE ANDRES
CASTANEDA



LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER & CATALOG NUMBER	MOUNTING	NO./LAMPS	LOAD
A	STREETWORKS #CEM-EO4-LED-E1-XX-SO-BL-BK-10MSP-10X-U139601 W/ MOUNTING ACCESSORY #SA6110-BK W/ HAPCO POLE: GEORGETOWN-13' - W/ 20 AMP GFCI OUTLET BLACK. SEE HAPCO DRAWING # - B33705 DATED 04/24/15	13' POLE	LED	97 W

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



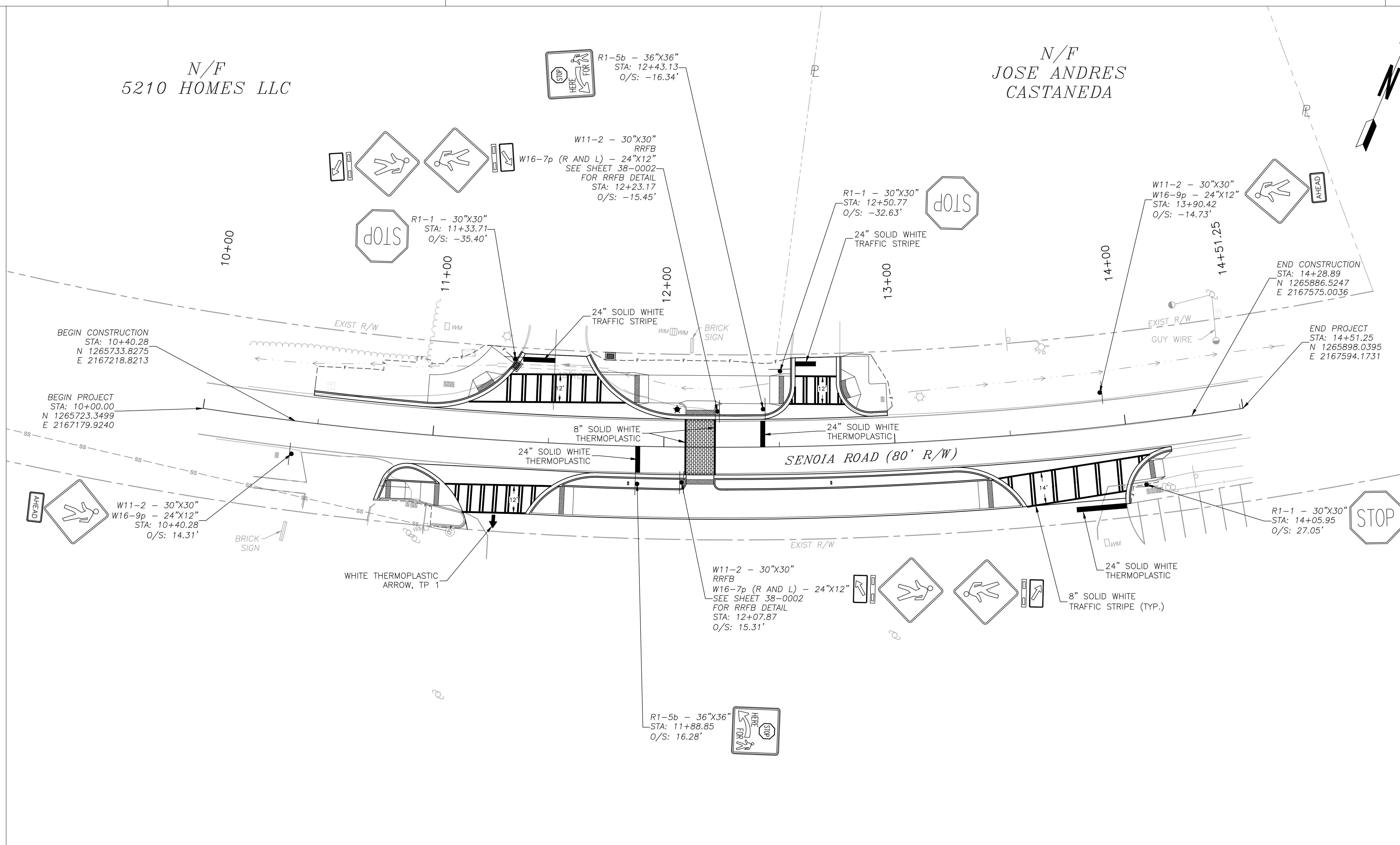
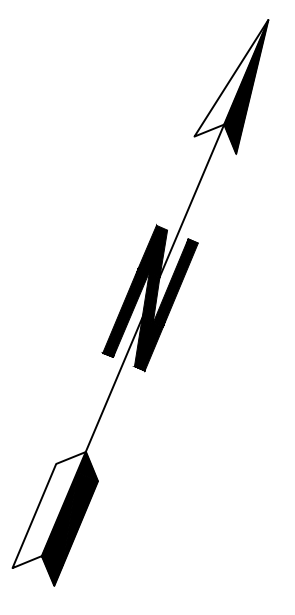
REVISION DATES	

LIGHTING PLANS
SENOIA ROAD STREETScape IMPROVEMENTS
TOWN OF TYRONE, GEORGIA

CHECKED:	DATE:	DRAWING No. 25-0001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

N/F
5210 HOMES LLC

N/F
JOSE ANDRES
CASTANEDA



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

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COLLABORATION BY DESIGN
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DULUTH, GA 30097
(678) 417-4000 keckwood.com

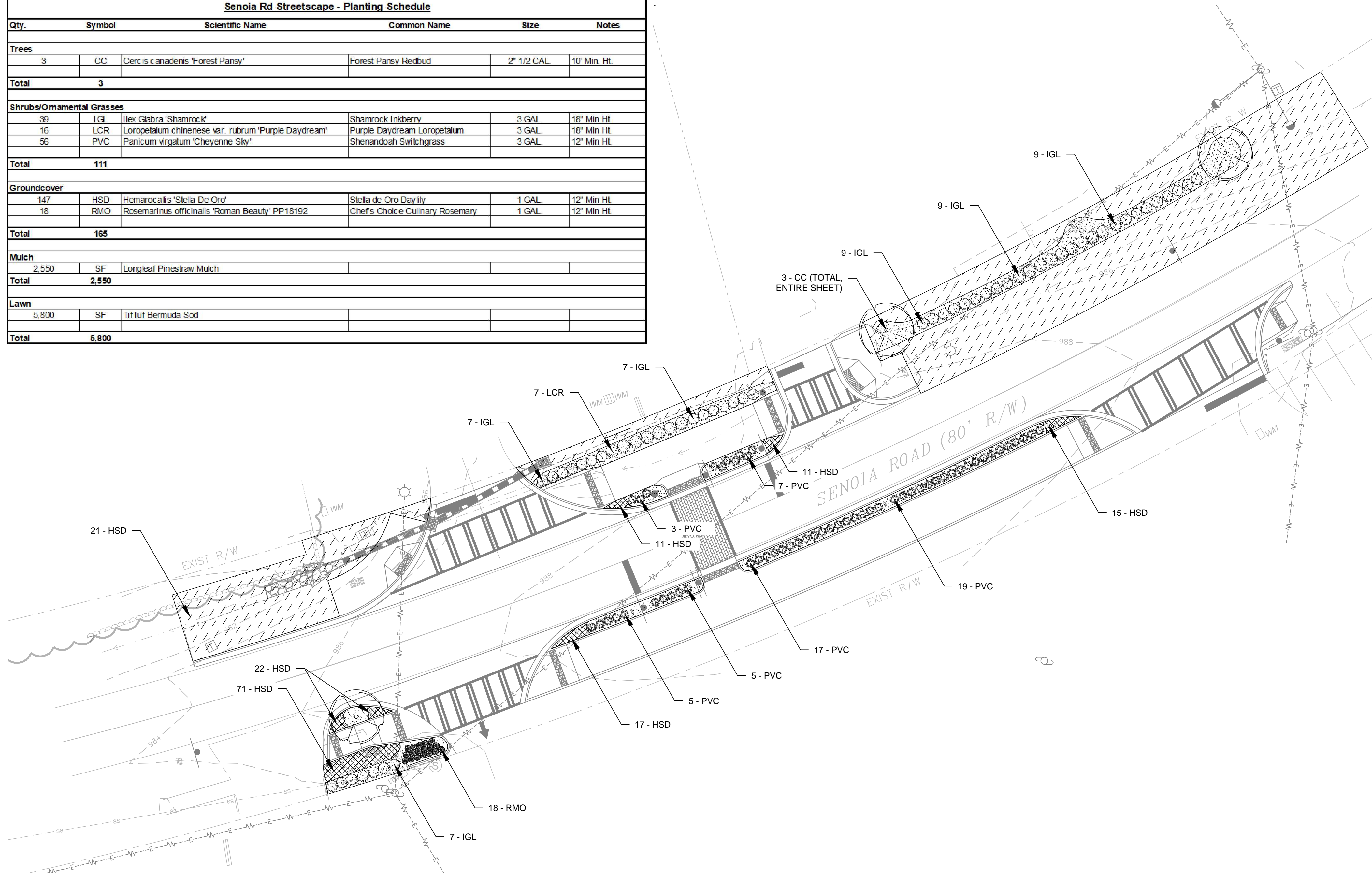


REVISION DATES	

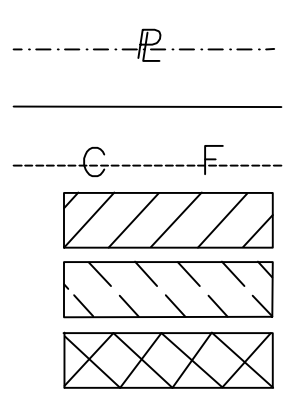
SIGNING AND MARKING PLANS
SENOIA ROAD STREETScape IMPROVEMENTS
TOWN OF TYRONE, GEORGIA

CHECKED:	DATE:	DRAWING No. 26-0001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Senoia Rd Streetscape - Planting Schedule					
Qty.	Symbol	Scientific Name	Common Name	Size	Notes
Trees					
3	CC	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	2" 1/2 CAL.	10' Min. Ht.
Total	3				
Shrubs/Omnamental Grasses					
39	IGL	Ilex Glabra 'Shamrock'	Shamrock Inkberry	3 GAL.	18" Min Ht.
16	LCR	Loropetalum chinenses var. rubrum 'Purple Daydream'	Purple Daydream Loropetalum	3 GAL.	18" Min Ht.
56	PVC	Panicum virgatum 'Cheyenne Sky'	Shenandoah Switchgrass	3 GAL.	12" Min Ht.
Total	111				
Groundcover					
147	HSD	Hemerocallis 'Stella De Oro'	Stella de Oro Daylily	1 GAL.	12" Min Ht.
18	RMO	Rosemarinus officinalis 'Roman Beauty' PP18192	Chef's Choice Culinary Rosemary	1 GAL.	12" Min Ht.
Total	165				
Mulch					
2,550	SF	Longleaf Pinestraw Mulch			
Total	2,550				
Lawn					
5,800	SF	TifTuf Bermuda Sod			
Total	5,800				

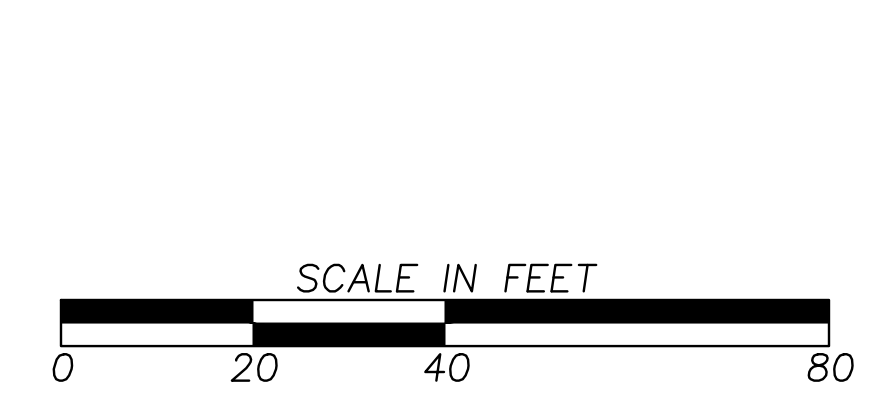


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

Keck+Wood
 COLLABORATION BY DESIGN
 3090 PREMIERE PARKWAY, SUITE 200
 DULUTH, GA 30097
 (678) 417-4000 keckwood.com



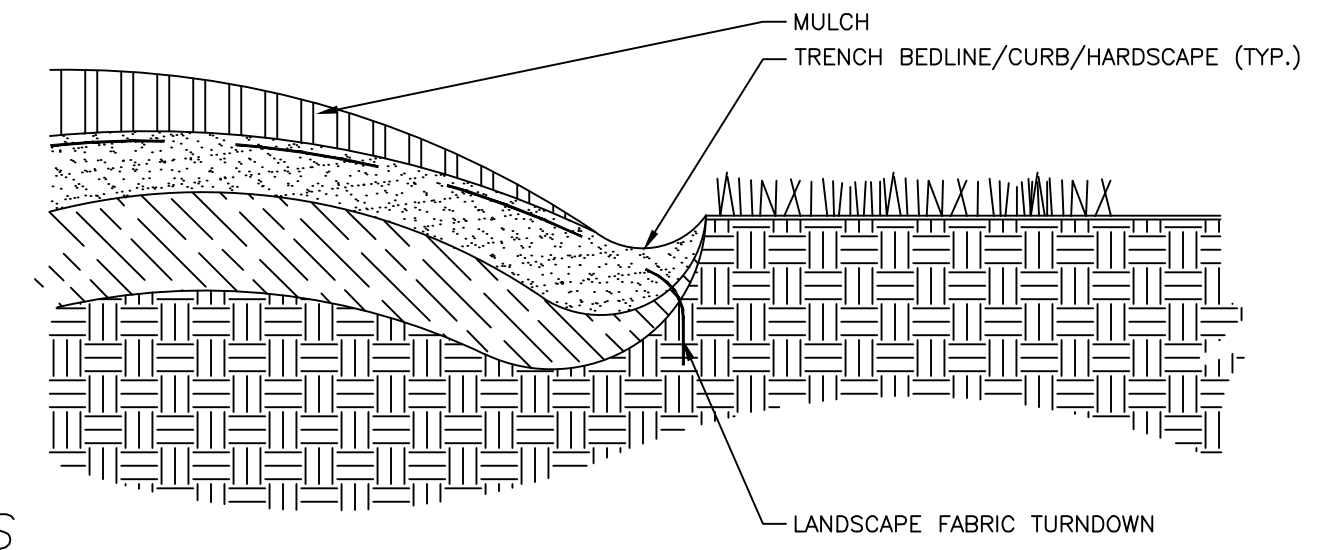
REVISION DATES	

LANDSCAPE PLAN
 SENOIA ROAD STREETScape IMPROVEMENTS
 TOWN OF TYRONE, GEORGIA

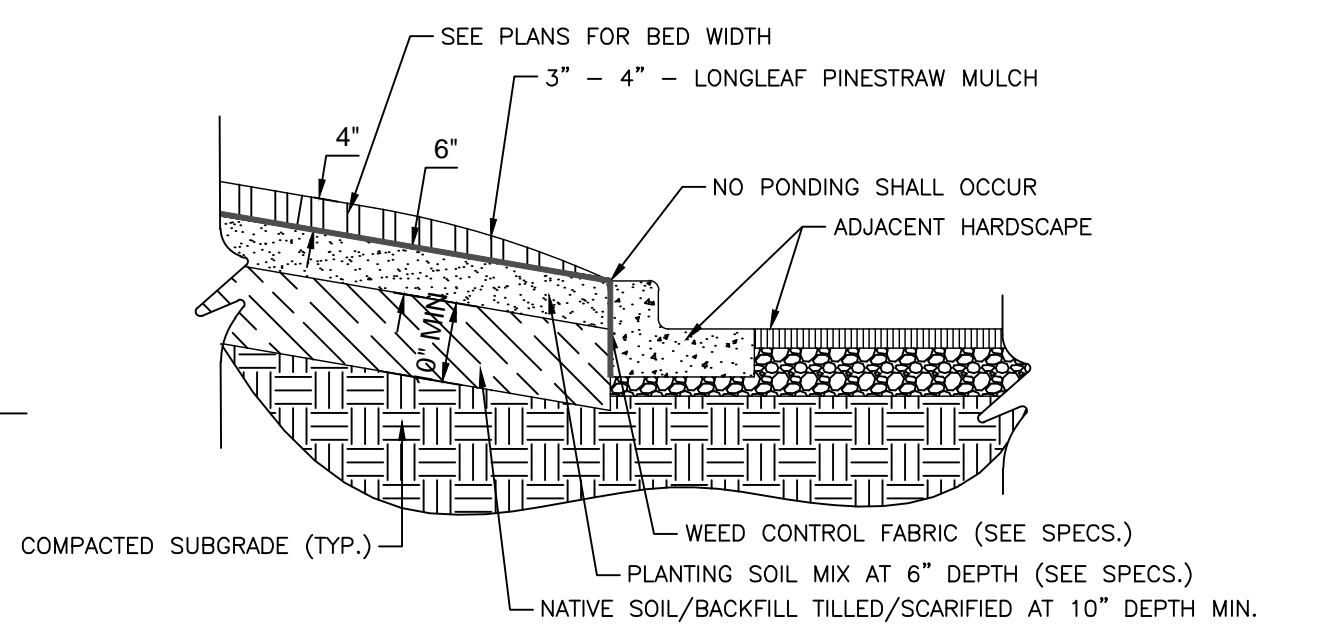
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1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES IN THE PLANT LIST. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
2. ALL TREES, SHRUBS AND PLANTS SHALL CONFORM TO ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE PROJECT SPECIFICATIONS.
3. ALL PLANT MATERIAL SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
4. THE TOP OF ALL ROOT BALLS SHALL BE 2" ABOVE FINISHED GRADE IN WELL DRAINED SOILS. IN POORLY DRAINED SOILS, ROOT BALLS SHALL BE 1/4 HEIGHT OF ROOT BALL ABOVE FINISHED GRADE.
5. ALL ROOT BALLS REMOVED FROM CANS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
6. ALL PLANTS SHALL BE GUARANTEED TO BE IN HEALTHY CONDITION FOR ONE (1) YEAR AFTER ACCEPTANCE BY OWNER OF ALL PLANT MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE/FERTILIZATION/WATERING DURING THE WARRANTY PERIOD.
7. MULCH A MIN. 4 FOOT AREA AROUND EACH TREE. MULCH A CONTINUOUS AREA AROUND ALL SHRUB BEDS, AS INDICATED ON THE PLAN, WITHIN 2 DAYS AFTER PLANTS ARE INSTALLED. MULCH SHALL BE 3-4" OF DOUBLE HAMMERED HARDWOOD.
8. LANDSCAPE CONTRACTOR SHALL REMOVE TOP 1/3 OF ALL WIRE BASKETS, TOP 1/3 OF BURLAP AND ASSOCIATED TWINE AND STRAPPING FROM TREE ROOT BALLS PRIOR TO FINAL ACCEPTANCE OF PLANTS.
9. TOPSOIL SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AND USED FOR BACKFILLING ALL PITS AND BED ESTABLISHMENT FOR PLANTS. PROVIDE TOPSOIL WHICH IS FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUB-SOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 1" IN ANY DIMENSION, AND OTHER EXTRANEOUS OF TOXIC MATTER HARMFUL TO PLANT GROWTH. TOPSOIL SHALL HAVE 2-5% ORGANIC MATTER(MINIMUM), A 60% MAXIMUM CLAY CONTENT, AND Ph VALUE OF 6-6.5%.
10. SOIL AMENDMENT SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AND USED FOR BACKFILLING AND BED ESTABLISHMENT. SOIL AMENDMENT SHALL CONSIST OF THE BELOW PERCENTAGES AND HAVE A PH RANGE BETWEEN 5.5 AND 7%. SOIL AMENDMENT SHALL NOT BE USED IN FROZEN OR MUDDY CONDITIONS. CONTRACTOR TO SUBMIT VENDOR INFORMATION FOR ALL SOIL AMENDMENTS. ALL BEDS SHOULD BE TILLED PRIOR TO ADDING PLANTING SOIL. PLANTING SOIL SHALL CONSIST OF 2/3 TOPSOIL AND 1/3 SOIL AMENDMENT. SEE PLANTING BED ESTABLISHMENT DETAIL FOR MORE INFORMATION.
11. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED AND CLEARLY PAINTED WITHIN 10 DAYS OF ANY GROUND DISTURBING ACTIVITY. OWNER WILL NOT PAY FOR UTILITY REPAIRS DUE TO FAILURE TO MARK AND OBSERVE UTILITY LOCATIONS.
12. CONTRACTOR TO ENSURE POSITIVE DRAINAGE IN ALL PLANTING AREAS AND NO PONDING SHALL OCCUR. POORLY DRAINED SOILS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. ALL POORLY DRAINED SOILS SHALL BE CORRECTED BEFORE PLANTING OCCURS BY IMPORTING SUITABLE SOILS OR ADDING A DRAINAGE SYSTEM.
13. ALL PLANTING BEDS SHALL HAVE 50Z. MINIMUM WEED CONTROL FABRIC.
14. ALL EXISTING TURF/LAWN/WEEDS SHALL BE ERADICATED FROM PLANTING AREAS BEFORE TILLAGE.

- NOTES:
1. REFER TO SPECIFICATIONS FOR MORE DETAIL.
 2. CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS, ROCKS, OR ANY FOREIGN OBJECTS FROM THE NATIVE SOIL.
 3. ALL PLANTING BEDS SHALL HAVE POSITIVE DRAINAGE AND NO PONDING SHALL OCCUR.
 4. ALL PLANTING BEDS SHALL HAVE WEED CONTROL FABRIC (5 OZ. MIN.)
 5. ALL GRASSES/WEEDS SHALL BE ERADICATED BEFORE PLANTING.
 6. IRRIGATION LINE SHALL BE COVERED WITH MULCH AND NOT VISIBLE.
 7. PLANTING SOIL SHALL BE COMPOSED OF 2/3 TOPSOIL AND 1/3 SOIL AMENDMENT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



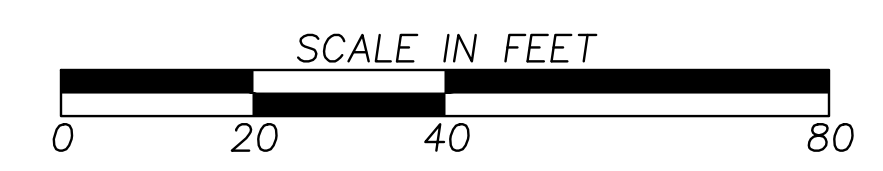
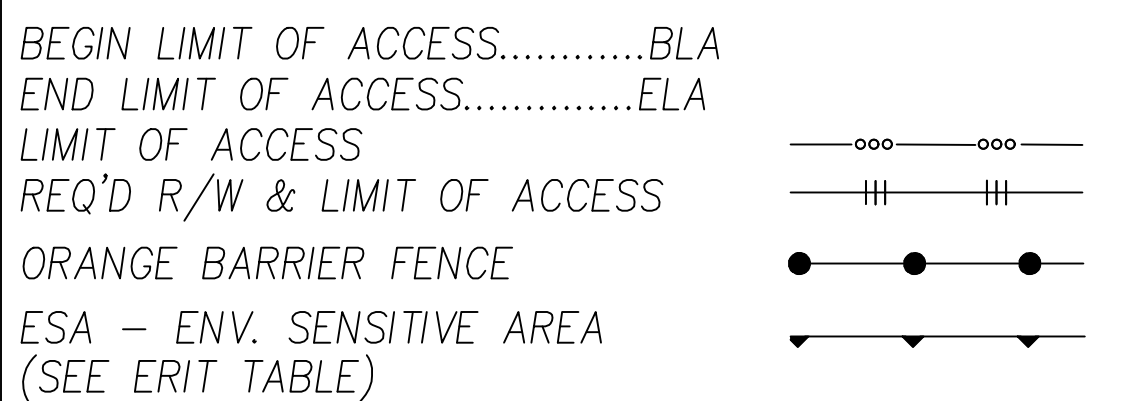
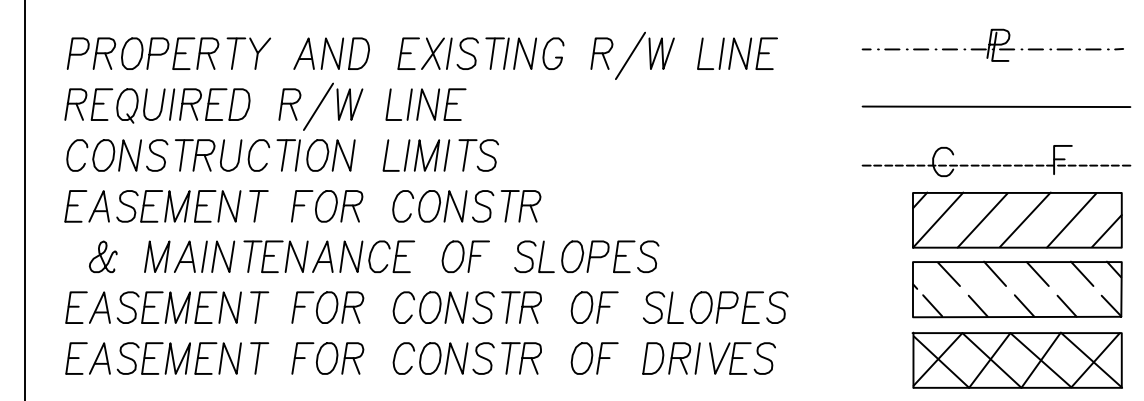
PLANTING ISLANDS



PLANTING BEDS

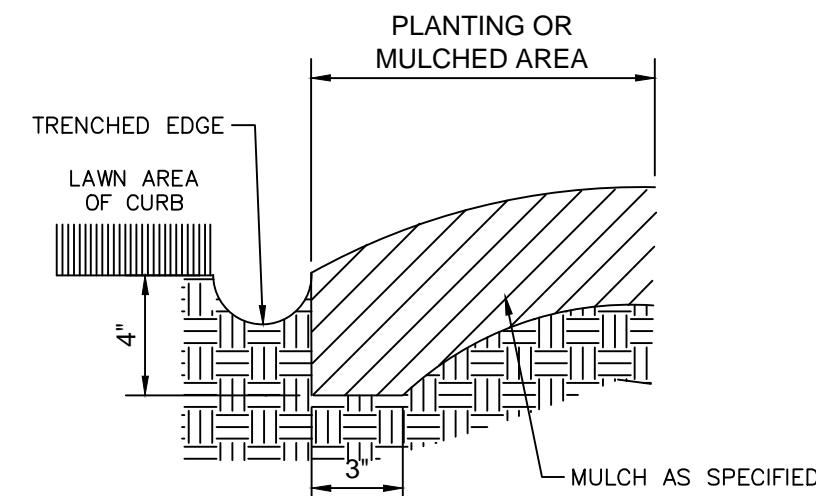
LANDSCAPE NOTES

BED ESTABLISHMENT DETAILS

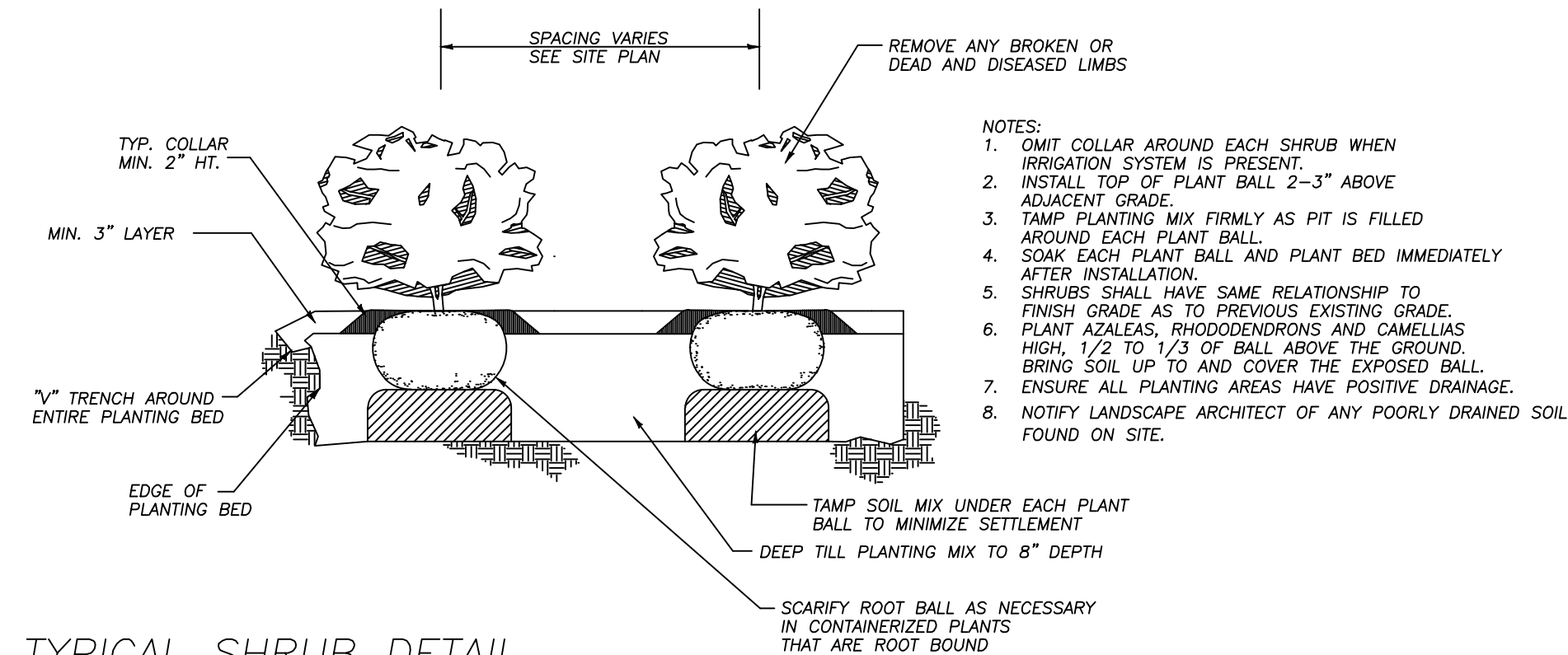
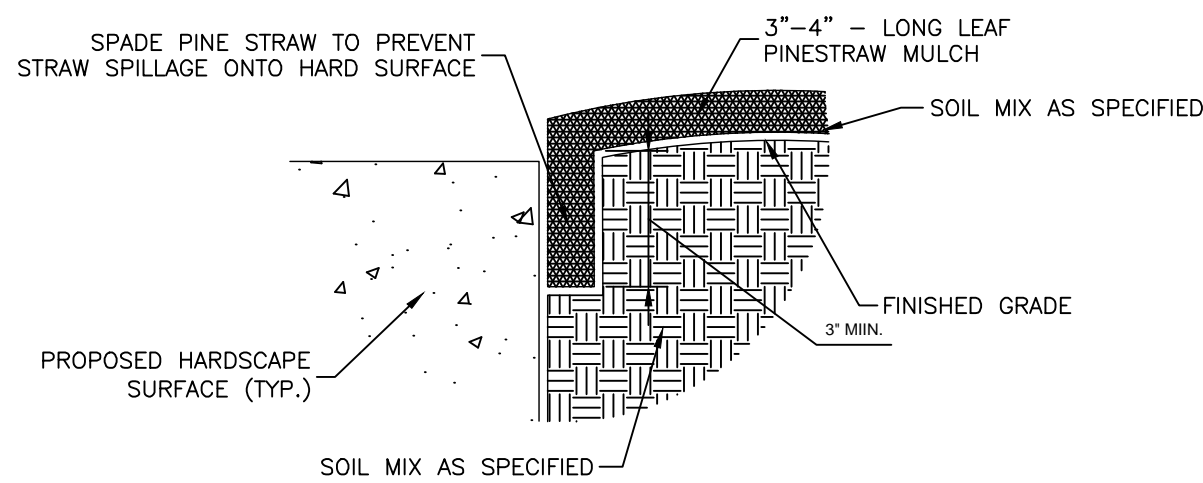


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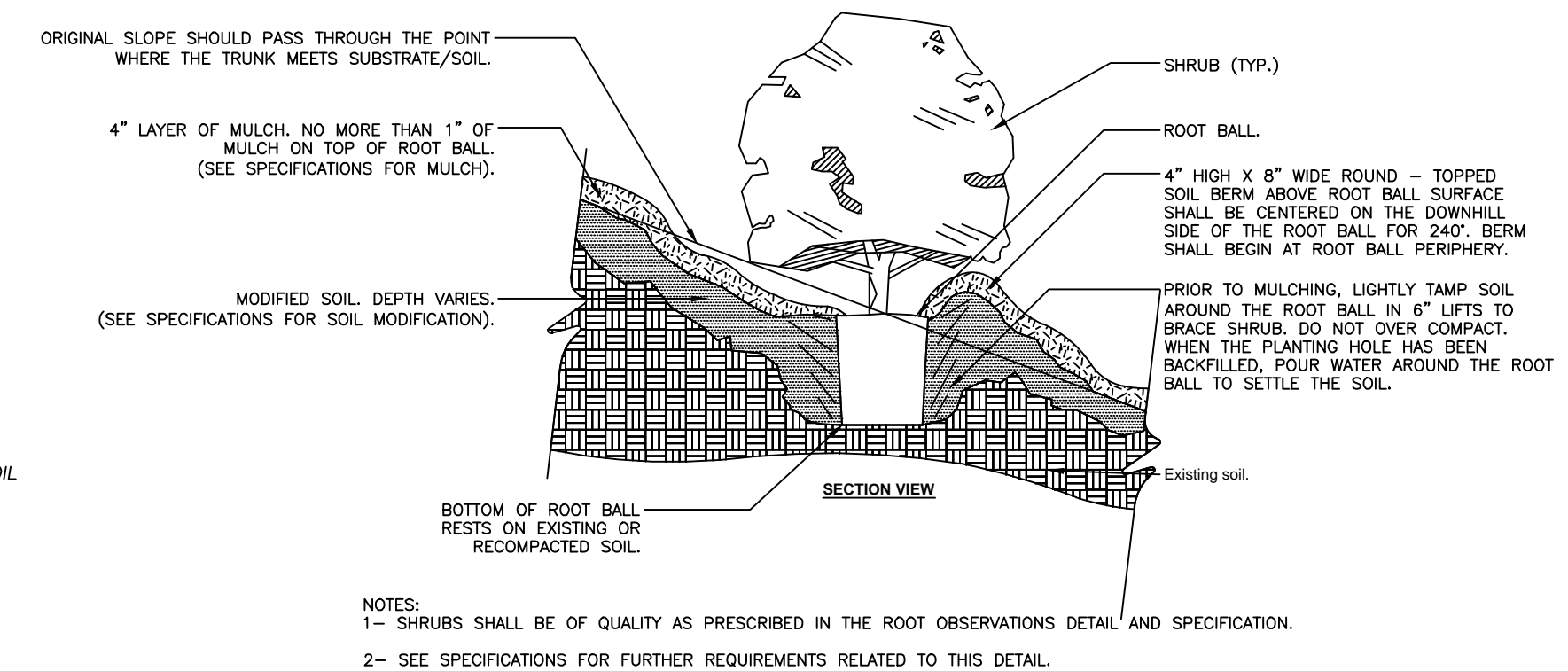
LANDSCAPE DETAILS		
SENOIA ROAD STREETScape IMPROVEMENTS		
TOWN OF TYRONE, GEORGIA		
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NOTE: TRENCH EDGE SHALL CREATE CLEAN SEPARATION BETWEEN AREAS AND SHALL FOLLOW SMOOTH BEDLINES PRE LANDSCAPE PLAN



TYPICAL SHRUB DETAIL



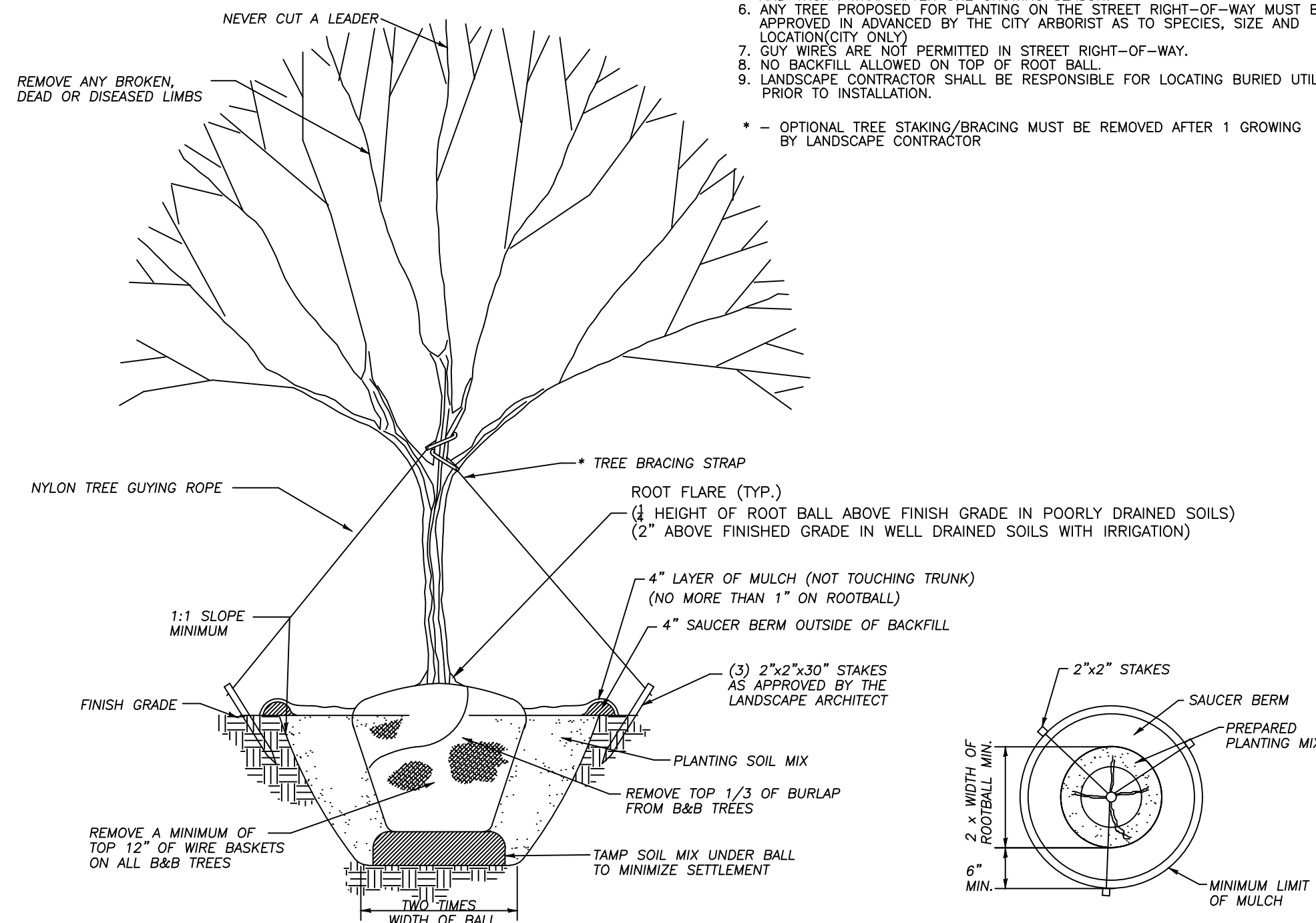
SHRUB ON SLOPE (20:1) TO (2:1)

1 MULCH DETAILS

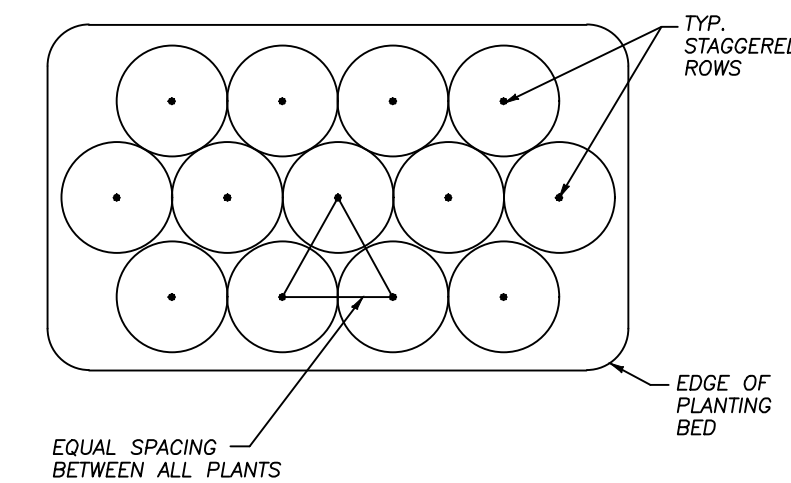
N.T.S.

2 SHRUBS PLANTING DETAILS

- ALL TREES TO BE GROWN IN A RECOGNIZED NURSERY IN ACCORDANCE WITH RECOMMENDATION AND REQUIREMENTS OF ANSI Z60.1 STANDARD FOR NURSERY STOCK.
 - REMOVE ALL TREATED OR PLASTIC-COATED BURLAP STRAPPING WIRE OR NYLON TWINE FROM ROOT BALL. AFTER SETTING IN HOLE, CUT AWAY TOP 12" OF WIRE BASKET, IF ANY.
 - INSTALL ROOT FLARE 2" ABOVE EXISTING GRADE IN WELL DRAINED SOILS. 1/4 HEIGHT OF ROOT BALL ABOVE EXISTING GRADE IN POOR DRAINED SOILS.
 - SOAK PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION. PLACE 4-6" OF SEASONED MULCH OR PINE NEEDLES AROUND BASE OF TREE, 3" DIAMETER MINIMUM.
 - TREE BRACING STRAPS ARE OPTIONAL. USE POLYPROPYLENE WEBBING ONLY. NO WIRE OR ROPE TO BE IN DIRECT CONTACT WITH TRUNK. REMOVE ALL TREE STRAPS AND TRUNK WRAP AFTER ONE GROWING SEASON.
 - ANY TREE PROPOSED FOR PLANTING ON THE STREET RIGHT-OF-WAY MUST BE APPROVED IN ADVANCED BY THE CITY ARBORIST AS TO SPECIES, SIZE AND LOCATION (CITY ONLY).
 - CUT WIRES ARE NOT PERMITTED IN STREET RIGHT-OF-WAY.
 - NO BACKFILL ALLOWED ON TOP OF ROOT BALL.
 - LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING BURIED UTILITIES PRIOR TO INSTALLATION.
- * - OPTIONAL TREE STAKING/BRACING MUST BE REMOVED AFTER 1 GROWING BY LANDSCAPE CONTRACTOR

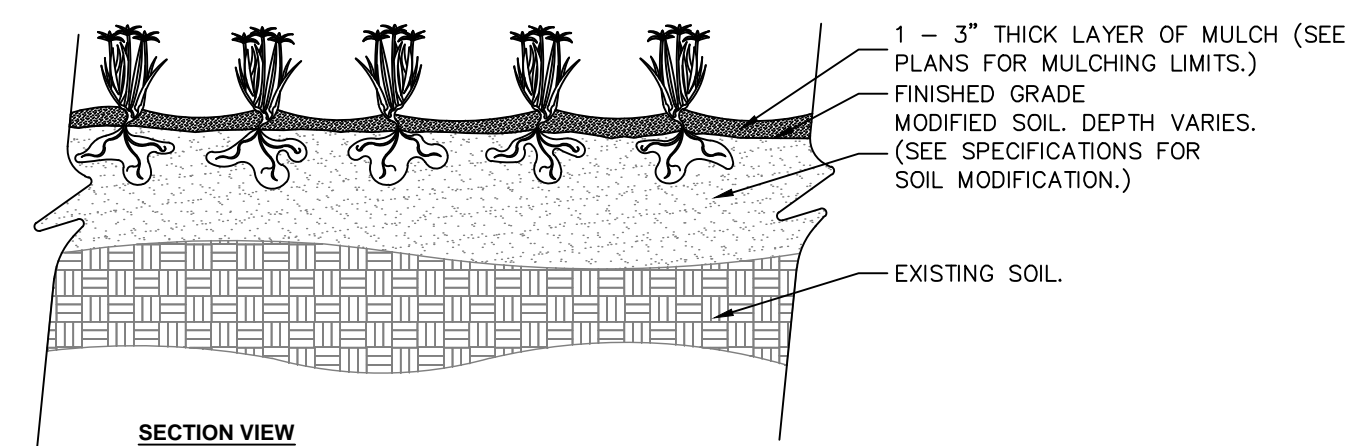


STANDARD TREE DETAIL



PLANT SPACING

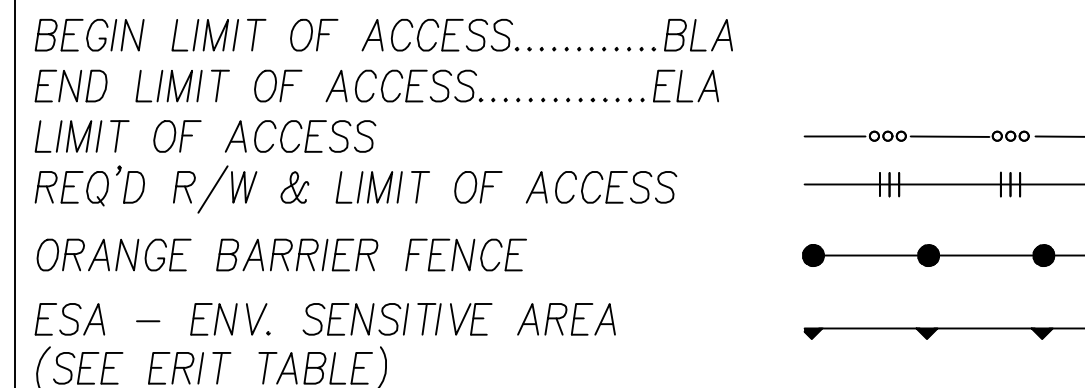
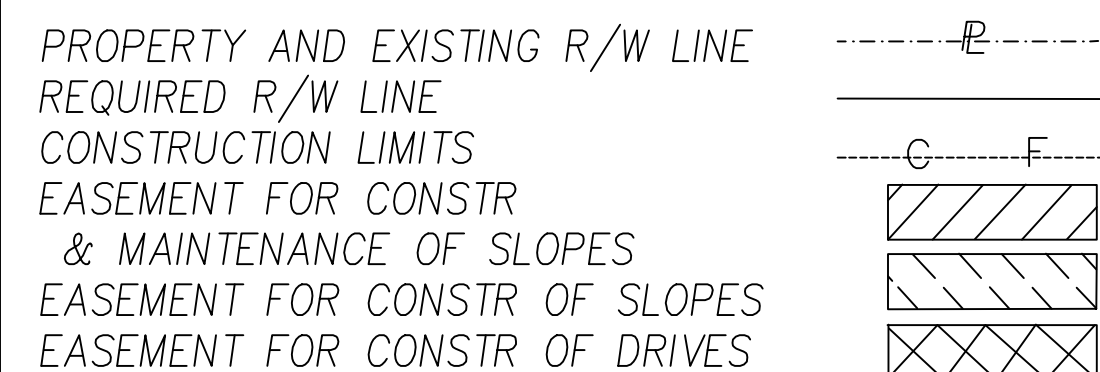
4 TYPICAL SPACING DETAIL



- NOTES:
- SEE PLANTING SCHEDULE FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSION.
 - SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).
 - SETTLE SOIL AROUND RELAT ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.
 - OMIT WEED CONTROL FABRIC IN AREAS OF RHIZOME SPREADING GROUNDCOVERS.

5 GROUNDCOVER PLANTING DETAIL

3 TREE PLANTING DETAILS



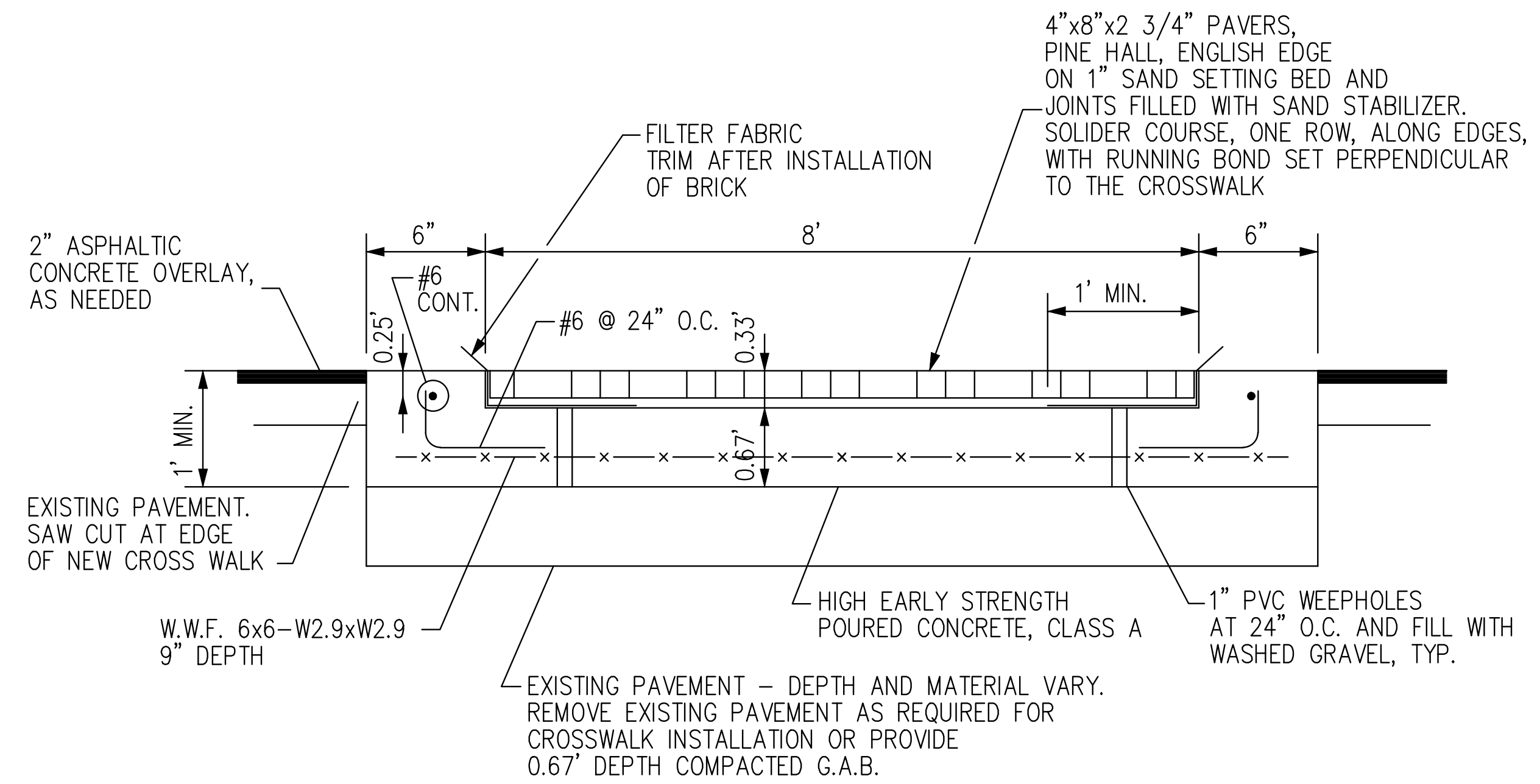
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DULUTH, GA 30097
(678) 417-4000 keckwood.com



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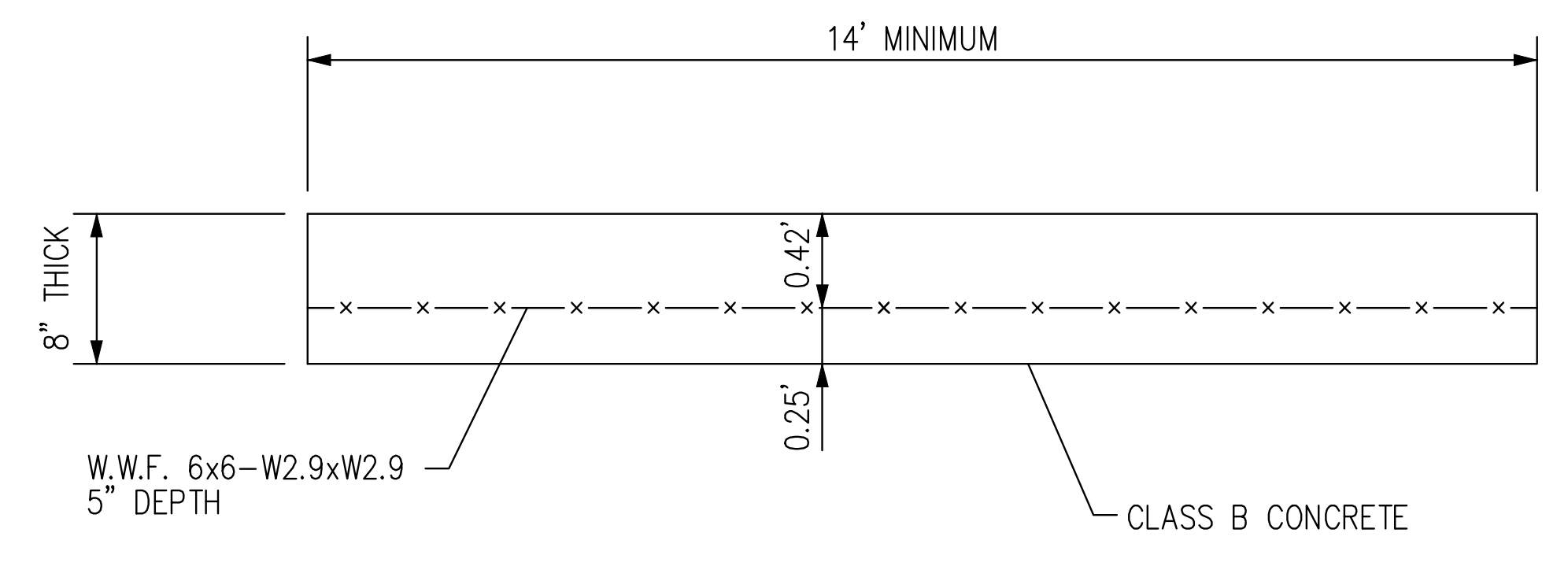
LANDSCAPE DETAILS
SENOIA ROAD STREETScape IMPROVEMENTS
TOWN OF TYRONE, GEORGIA

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NOTE: THE 6" CONCRETE AT EDGE OF CROSSWALK SHALL BE STRIPED WITH 8" WHITE THERMOPLASTIC TRAFFIC STRIPE.

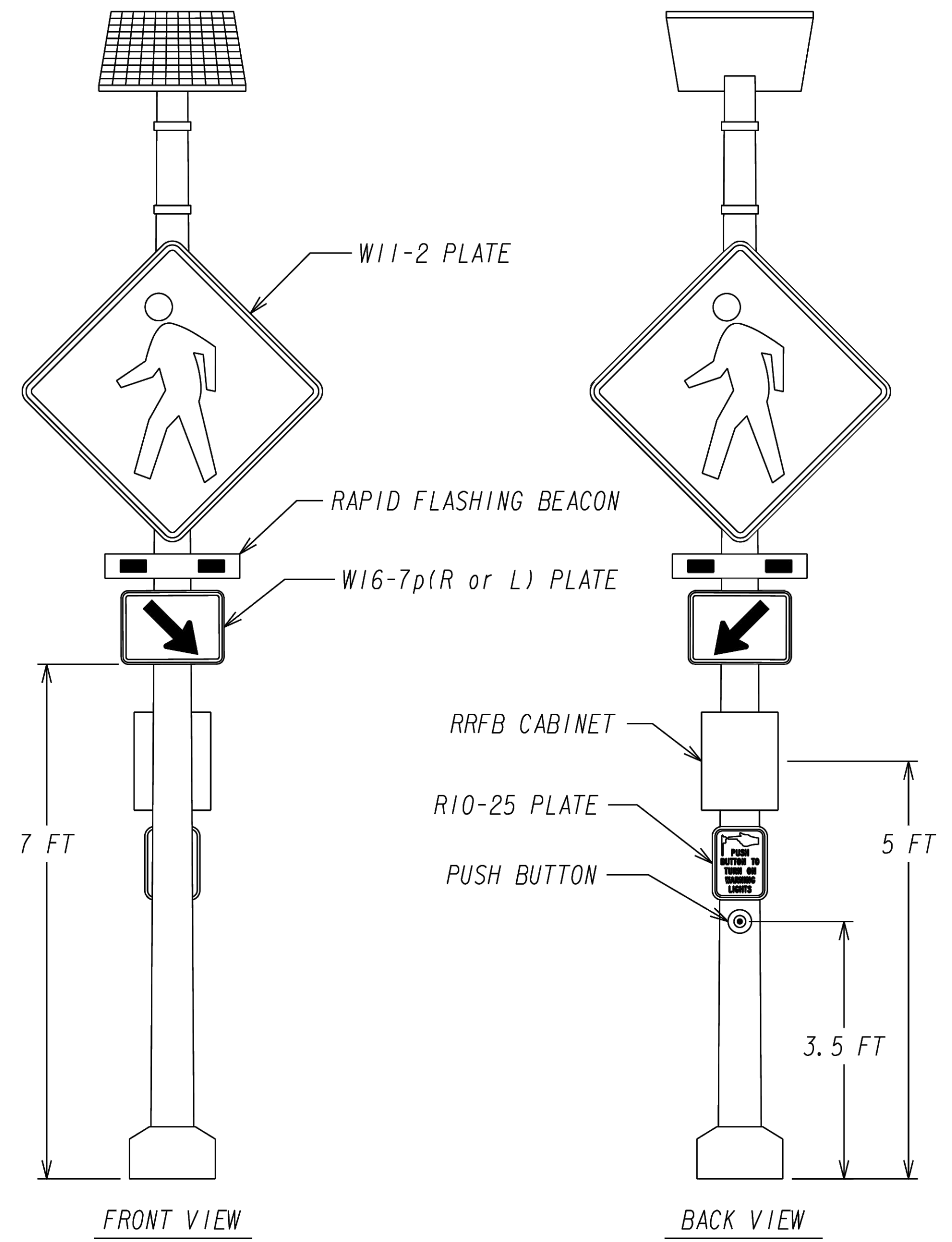
BRICK PAVER CROSSWALK SECTION
NOT TO SCALE



8" THICK COMMERCIAL DRIVEWAY SECTION
NOT TO SCALE



REVISION DATES			SPECIAL CONSTRUCTION DETAILS		
			SENOIA ROAD STREETScape IMPROVEMENTS		
			TOWN OF TYRONE, GEORGIA		
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VERIFIED:	DATE:				



*PEDESTAL MOUNTED PEDESTRIAN RECTANGULAR RAPID FLASHING BEACON, ASSEMBLY DETAIL
NOT TO SCALE*

1. PUSH BUTTONS SHALL ACTIVATE TWO (2) RAPID FLASHING BEACONS AT A TIME.
2. RAPID FLASHING BEACON, W11-2 PLATES, AND W-16-7p (R OR L) PLATES SHOULD BE FACING VEHICULAR TRAFFIC, RRFB CABINET, R10-25 PLATE (PUSH BUTTON TO TURN ON WARNING LIGHTS), AND PUSH BUTTON SHOULD BE FACING INSIDE CROSSWALK.
3. ALL ASSEMBLIES ARE TO BE SOLAR POWERED. WIRELESS COMMUNICATION BETWEEN ASSEMBLIES IS REQUIRED
4. REFER TO GDOT DETAIL TS-03 (SHEET 41-0003) AND TS-06 (SHEET 41-0004) FOR FOUNDATION AND GROUNDING DETAILS



REVISION DATES			SPECIAL CONSTRUCTION DETAILS	
			SENOIA ROAD STREETScape IMPROVEMENTS	
			TOWN OF TYRONE, GEORGIA	
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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

METHOD OF CONNECTING PIPE

STEP 1
CUT CONCRETE PIPE LEAVING APPROXIMATELY 3" OF REINFORCING MESH EXPOSED.

STEP 2
POSITION PIPE APPROXIMATELY 3" INTO OPENING OF WALL.

STEP 3
POSITION CONICAL CORE INSIDE OF PIPE AND SEAL WITH GROUT (1/2" MIN. THICKNESS OF GROUT). REMOVE CORE WHEN SET AND RUB GROUT TO SEAL JOINTS.

NOTE: CONNECTION SHOWN ABOVE FOR USE WHERE CONCRETE OUTLET PIPE DOES NOT HAVE BELL OR HUB END PROVIDED AT STRUCTURE OUTLET.

TYPE "A"

TYPE "B" WITH WEIR

TYPE "C" (WITH OR WITHOUT WEIR)

TYPE "E"

ISOMETRIC VIEW OF DROP INLET TYPE "C" OR "E" FOR PIPES LARGER THAN 18" (WITH OR WITHOUT WEIR)

ALTERNATE METHOD OF CONNECTION SKEWED PIPE

REINFORCING STEEL FOR BOTTOM SLAB

NOTE: SEE STANDARD 1019-A- BRICK DROP INLETS- FOR DETAIL OF GRATING FRAME, HOOD, ETC., WHERE NEEDED.

NOTE: OPENING FOR PIPE SHALL BE THE OUTSIDE DIAMETER OF THE REQ'D PIPE PLUS 1" MIN. OPENING SHALL HAVE CORRUGATIONS.

NOTE: FOR REINF. STEEL, SEE DETAIL UNDER TYPE "C".

IF THIS SWIVEL SECTION SLAB IS USED TO REDUCE THE WIDENING AND USE REINF. STEEL SHOWN UNDER TYPE "C".

SCALE: 3/4" = 1'

FOR OTHER DETAILS, SEE TYPE "B"

NOTE: CONNECTION SHOWN ABOVE FOR USE WHERE CONCRETE OUTLET PIPE DOES NOT HAVE BELL OR HUB END PROVIDED AT STRUCTURE OUTLET.

ALTERNATE METHODS OF CONNECTING SKEWED PIPES MAY INCLUDE PIPE ELBOWS OR CIRCULAR PRECAST BASE UNITS. SEE SEPARATE STANDARDS.

NOTE: REINFORCING STEEL SHALL BE No. 4 STEEL BARS AT 12" O.C. BOTH WAYS OR EQUIVALENT WIRE FABRIC REINFORCING.

SPECIAL NOTE: STANDARD 1019A INLETS ARE FOR USE AT LOW POINTS AND WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD 1019B IS RECOMMENDED.

DIMENSIONS FOR DROP INLETS

PIPE SIZE	TYPE "A"		TYPE "B"		TYPE "C"		TYPE "E"	
	MIN. h	MIN. H	MIN. h	MIN. H	WiorW2	a	MIN. h	MIN. H
15"	2'-0"	2'-8 1/2"	2'-7"	3'-3 1/2"	2'-0"	2'-7"	3'-3 1/2"	2'-0"
18"	2'-3 1/2"	3'-0"	2'-10"	3'-6 1/2"	2'-0"	2'-10"	3'-6 1/2"	2'-0"
24"			3'-0"	0'-6"	4'-3 1/2"	5'-0"	3'-0"	0'-6"
30"			3'-6"	0'-9"	4'-10 1/2"	5'-7"	3'-6"	0'-9"
36"			4'-0"	1'-0"	5'-5 1/2"	6'-2"	4'-0"	1'-0"
42"			4'-6"	1'-3"	6'-1 1/2"	6'-8"	4'-6"	1'-3"
48"			5'-0"	1'-6"	6'-7 1/2"	7'-3"	5'-0"	1'-6"
54"			5'-6"	1'-9"	7'-2 1/2"	7'-10"	5'-6"	1'-9"
60"			6'-0"	2'-0"	7'-9 1/2"	8'-5"	6'-0"	2'-0"

NOTE: SEE STANDARD 1019A (BRICK) AND STANDARD 1040 FOR CONSTRUCTION ALTERNATES BRICK MASONRY AND CIRCULAR PRECAST SECTIONS RESPECTIVELY.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
PRECAST DROP INLETS

SCALE AS SHOWN

DESIGNED: (SUBMITTED) *Jessie L. Kennel*
DRAWN: STATE ROAD & AIRPORT DESIGN ENGINEER
TRACED: (APPROVED) *Paul L. Smith*
CHECKED: CHIEF ENGINEER

AUG, 1999

NUMBER 1019A PRECAST

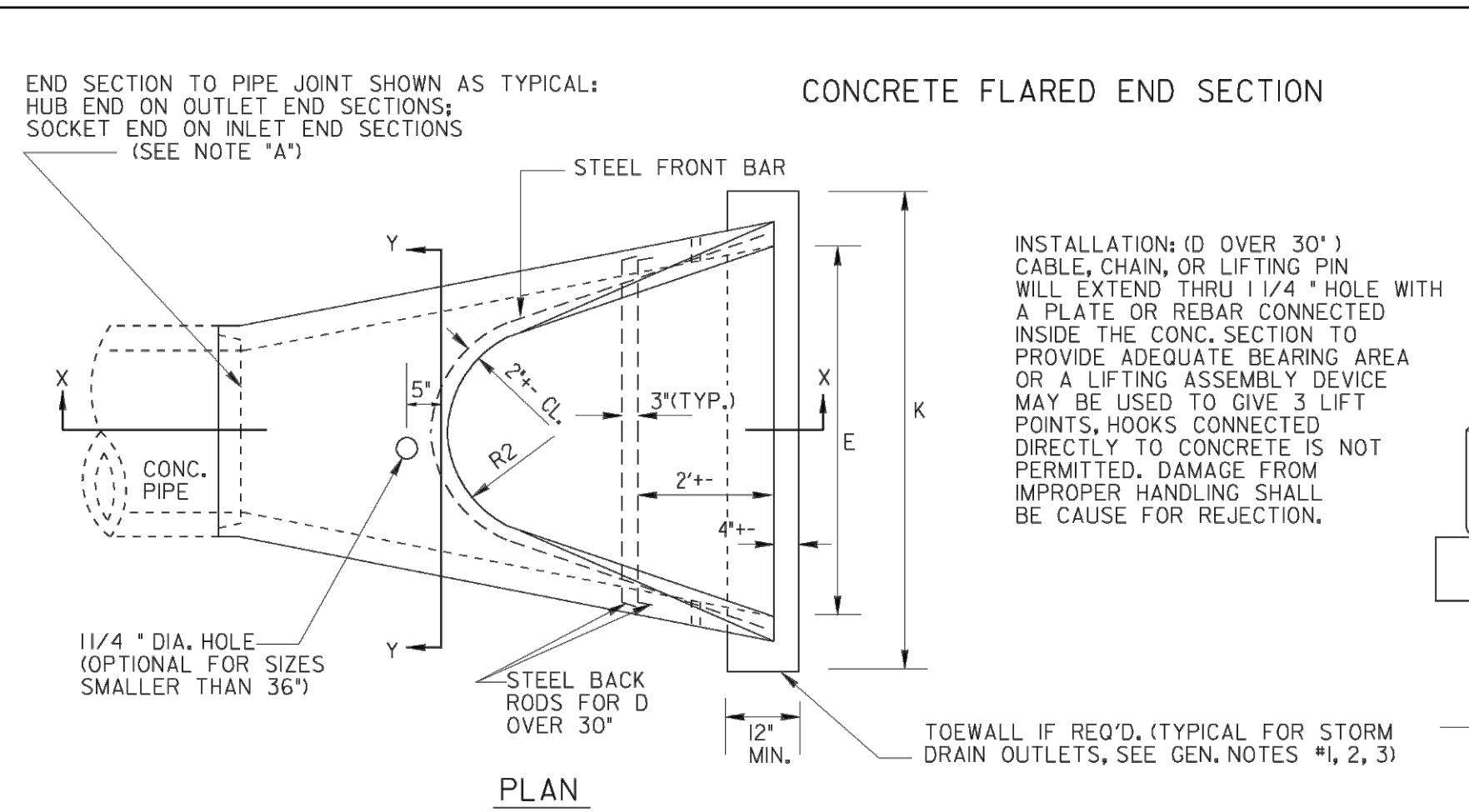
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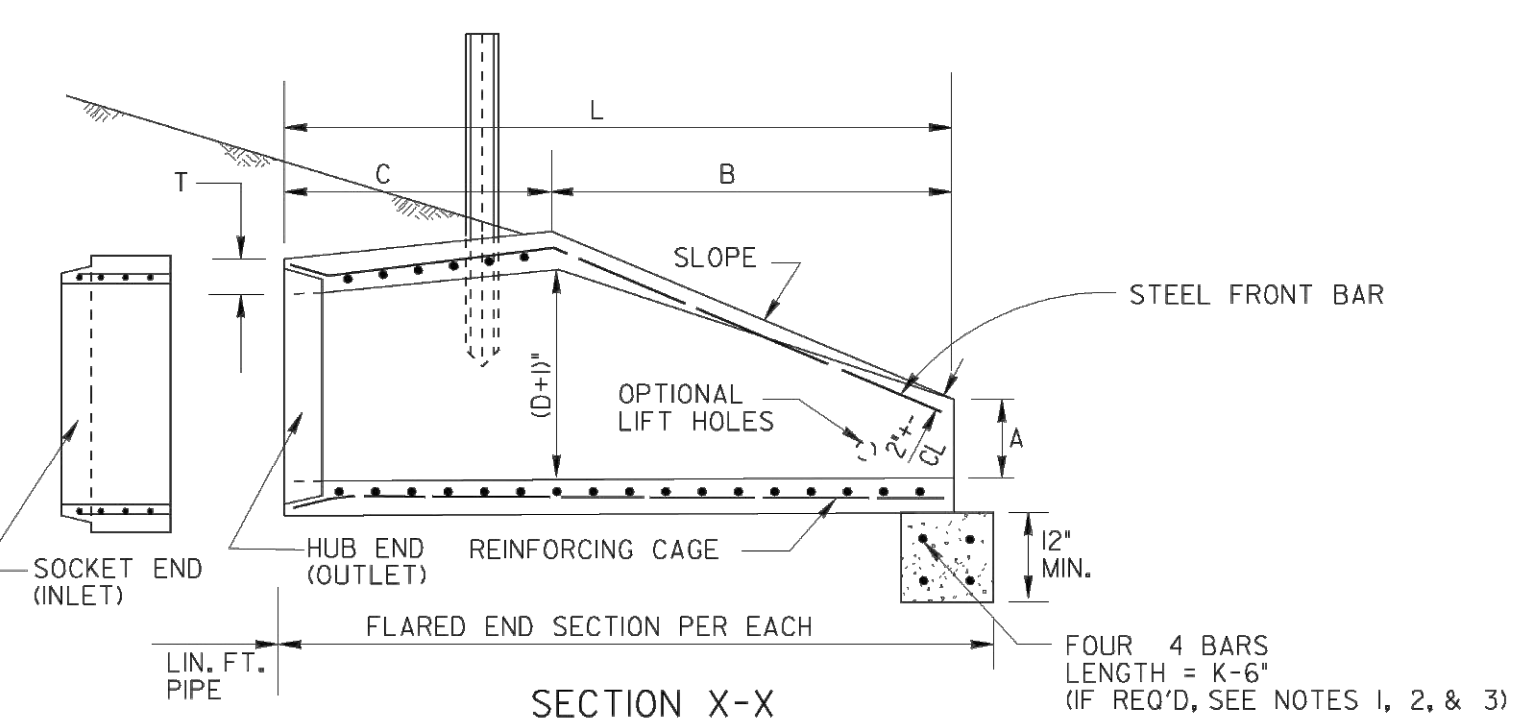
CONSTRUCTION STANDARDS
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TOWN OF TYRONE, GEORGIA

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NOTE: DO NOT CUT CONCRETE PIPE. USE FULL LENGTH SECTIONS ONLY. WARP SLOPE TO CONFORM WITH PIPE LENGTH AND END SECTION.



NOTE 'A':

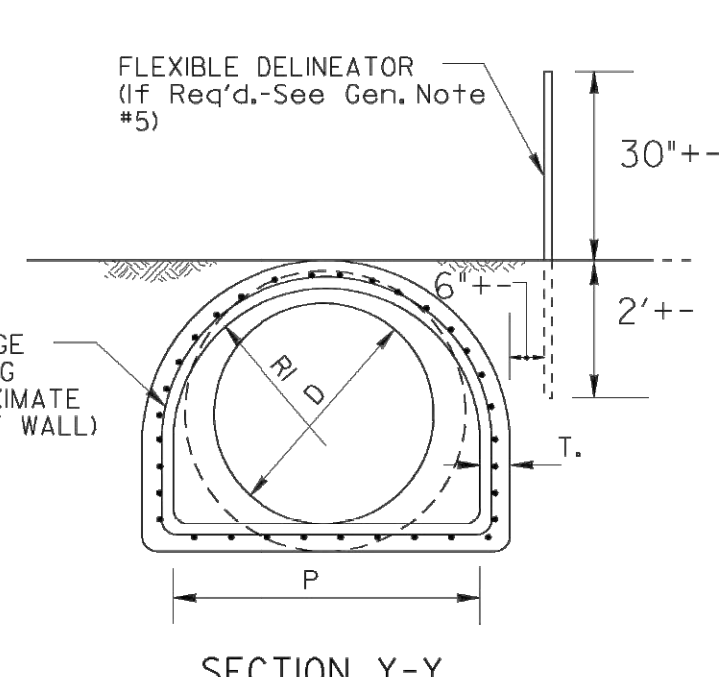
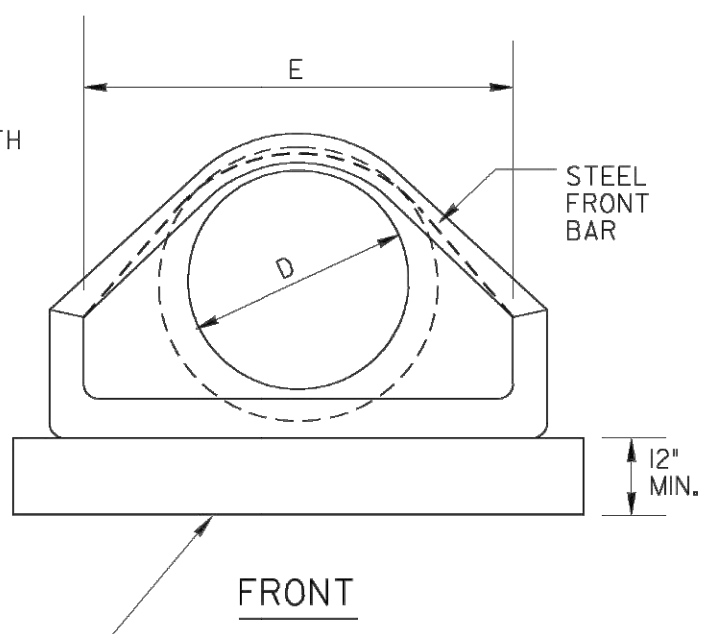
CONTRACTOR WILL INFORM PRODUCER IF CONCRETE FLARED END SECTION IS FOR INLET OR FOR OUTLET END. SOCKET (TONGUE OR SPIGOT) END IS REQUIRED FOR INLETS, HUB (GROOVE OR BELL) END IS REQUIRED FOR OUTLETS. SOCKET TO SOCKET OR HUB TO HUB JOINT WILL NOT BE ACCEPTED UNLESS A REINFORCED CONCRETE COLLAR IS BUILT AROUND THE JOINT WITH NO PAYMENT BEING MADE FOR THE COLLAR. FLARED END SECTIONS SHALL BE JOINED TO PIPE WITH ALL SPACE IN THE JOINT FILLED WITH EITHER BITUMINOUS PLASTIC CEMENT OR PREFORMED PLASTIC GASKET (SEC. 848).

WALL THICKNESS (T) IS SHOWN AS NOMINAL AND MAY BE INCREASED AT PRODUCER'S OPTION FOR DESIRED JOINT DESIGN OR TO ALLOW A FLAT OUTSIDE BOTTOM ON THE FLARE, WITH INSIDE DIMENSIONS OF FLARE RETAINED AS SHOWN. T = PIPE WALL THICKNESS (0.08330 + I" TYPICAL)

DIMENSIONS AND REINFORCING FOR CONCRETE FLARED END SECTIONS (+/- 1" TOLERANCE)											OUTLET TOEWALL (IF REQ'D)		
PIPE DIA	FRONT BAR	BACK RODS	SLOPE +/-	A	B	C	L	E	P	R1	R2	K = E + 2'	CULYDS. CONC.
12"	1-#3 x 5' 4"	NOT REQ'D.	2.2d	4'	2'0"	4'1"	6'1"	2'0"	18"	10"	9"	4'-0"	.148
15"	1-#3 x 6' 0"	NOT REQ'D.	2.2d	6"	2'3"	3'10"	6'1"	2'6"	2'0"	10"	11"	4'-6"	.167
18"	1-#3 x 7' 2"	NOT REQ'D.	2.2d	9"	2'3"	3'10"	6'1"	3'0"	2'5"	14"	10"	5'-0"	.185
24"	1-#3 x 9' 10"	NOT REQ'D.	2.4d	10"	3'8"	2' 6"	6'2"	4'0"	2'9"	15"	12"	6'-0"	.222
30"	1-#4 x 11' 8"	NOT REQ'D.	2.4d	12"	4'6"	1' 8"	6'2"	5'0"	3'1"	16"	13"	7'-0"	.259
36"	1-#4 x 13' 10"	2-#4 x 6' 3"	2.4d	15"	5'3"	2'11"	8'2"	6'0"	4'0"	2'0"	18"	8'-0"	.296
42"	1-#4 x 13' 10"	2-#4 x 7' 4"	2.4d	21"	5'3"	2'11"	8'2"	6'6"	4'6"	2'4"	110"	8'-6"	.315

NOTE: SPECIFIED REINFORCING IS MINIMAL AND MAY BE INCREASED AT PRODUCERS OPTION TO AID CASTING & HANDLING. ALTERNATE REINFORCEMENT PERMITTED IF APPROVED.

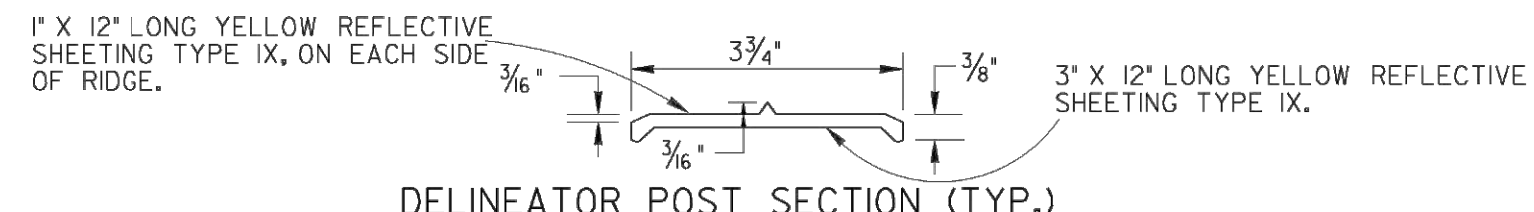
* NOTE: 'K' AND 'L' DIMENSION MAY BE MEASURED TO EITHER END OF JOINT CONNECTION AT PIPE.



SPECIAL NOTE:
 FLARED END SECTIONS ARE NORMALLY LIMITED TO USE OUTSIDE THE CLEAR ZONE OR BEHIND BARRIER AND WHERE HYDRAULICS PERMIT. SEE OTHER STANDARDS OR DETAILS FOR TAPERED HEADWALLS, SAFETY SLOPE END SECTIONS OR OTHER PIPE END STRUCTURES.

GENERAL NOTES :

- TOEWALLS ARE REQ'D. FOR OUTLETS OF CONC. STORM DRAINS, EXCEPT WHERE DITCH PAVING OR OTHER EROSION PROTECTION IS PROVIDED OR WHERE THE OUTLET VELOCITY IS LESS THAN 8 FT/SEC. TOEWALLS ARE NOT REQUIRED FOR SIDE DRAINS, SLOPE DRAINS OR INLETS OF STORM DRAINS THIS CRITERIA MAY BE VARIED WHERE SPECIFIED BY THE DESIGNER OR THE ENGINEER.
- TOEWALLS WILL BE PAID FOR AS CU. YDS. OF CLASS 'A' OR 'B' CONCRETE. CONTRACTOR MAY ELECT TO CONSTRUCT TOE WALL WITH SAND CEMENT BAG RIPRAP OR STONE RIPRAP TO SAME MINIMUM DIMENSIONS WITH NO ADDITIONAL PAYMENT.
- PRECAST TOEWALLS SHALL BE CL. 'A' CONCRETE; CAST-IN-PLACE TOEWALLS MAY BE CL. 'A' OR 'B' CONCRETE AND MAY BE TRENCH FORMED. WHERE PLANS ITEMIZE ONE CLASS OF CONCRETE AND CONTRACTOR ELECTS TO USE OTHER CLASS, NO ADDITIONAL PAYMENT IS MADE. NO PAYMENT IS MADE FOR STEEL IN TOEWALL.
- CENTERLINE OF FLARED END SECTION WILL ALIGN WITH CENTERLINE OF PIPE, IF PIPE IS SKEWED, THE EMBANKMENT SLOPE WILL BE WARPED TO CONFORM WITH END SECTION.
- FLEXIBLE DELINEATORS SHALL BE REQUIRED AT CROSS DRAIN FLARED END SECTIONS, BOTH INLET AND OUTLET. PAYMENT FOR FLARED END SECTION WILL INCLUDE DELINEATORS, SEE DETAIL AND NOTES BELOW. DELINEATORS NOT REQ'D. FOR SIDE DRAIN, SLOPE DRAIN, OR LONG PIPE.



NOTE: DELINEATOR POST SHALL CONFORM TO SEC. 911 FOR FLEXIBLE DELINEATOR POST EXCEPT REFLECTIVE SHEETING IS NOT REQUIRED AND LENGTH IS 4'-6" FROM TOP TO BOTTOM POINT. ALTERNATES PERMITTED IF APPROVED BY D.O.T. LABORATORY.

SPECIAL NOTE :
 PIPE SIZES (D) ARE "NOMINAL-MINIMUM" INSIDE DIAMETERS IN ACCORDANCE WITH GEORGIA STANDARD FOR PIPE CULVERTS. 'D' DIMENSION FOR FLARED END SECTION SHALL EQUAL THE 'D' DIMENSION FOR CONNECTING PIPE CULVERT.

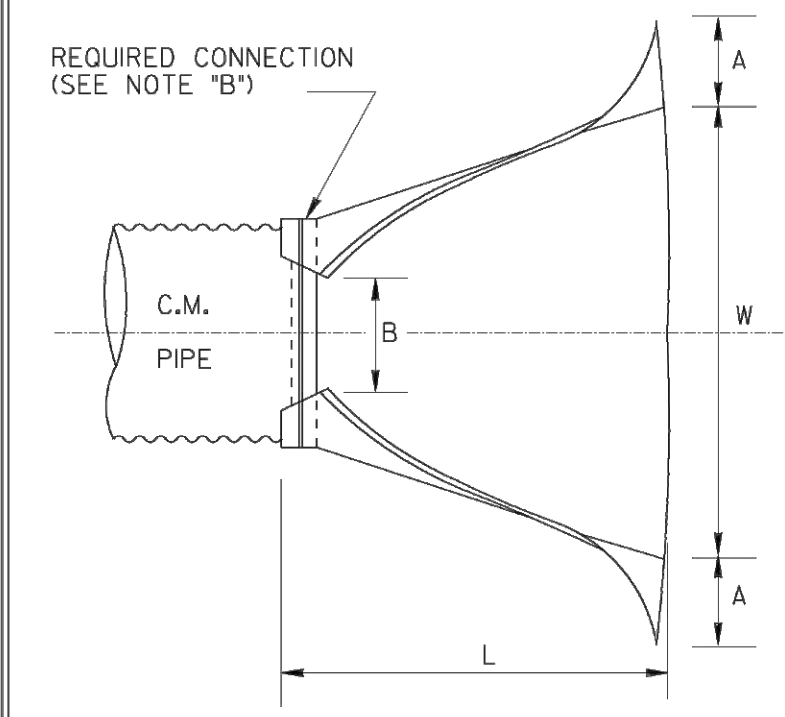
METAL FLARED END SECTION
 (USE ONLY WITH COR. METAL PIPE)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

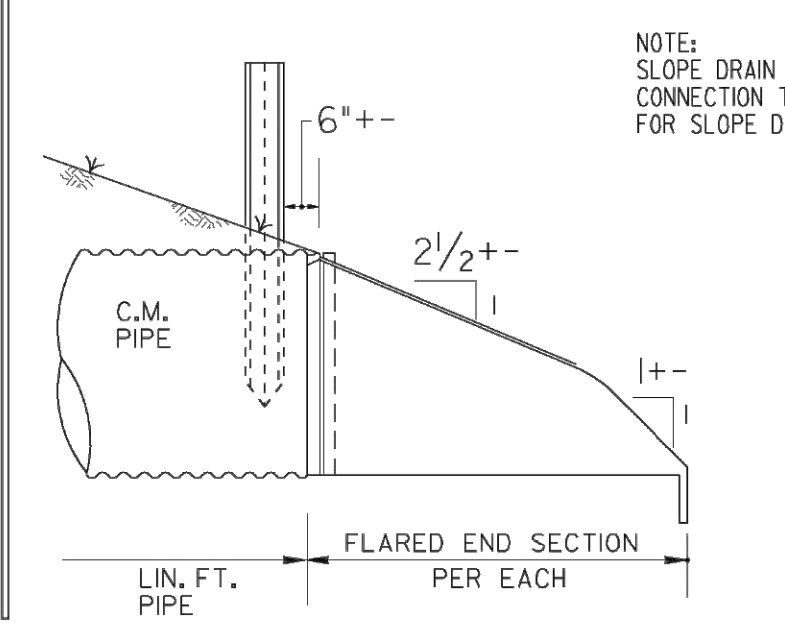
NOTE: GALVANIZED STEEL FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED STEEL PIPE AND ALUMINUM FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED ALUMINUM PIPE UNLESS OTHERWISE APPROVED BY D.O.T. OFFICE OF MATERIALS AND TESTS.

PIPE SIZE 'D'	THICKNESS		A = 0.4D +/- 1"	B = 0.5 D +/- 1" (MIN. 6")	H = 0.25D +/- 1/2"	L = 1.67D +/- 1/2"	W = 2.0D +/- 2"
	GALV. STEEL	ALUM.					
12"	.064"	.060"	5'	6'	6'	18'	2'0"
15"	.064"	.060"	6'	7'	6'	2'3"	2'6"
18"	.064"	.060"	7'	9'	6'	2'6"	3'0"
24"	.064"	.060"	9'	10'	6'	3'4"	4'0"
30"	.079"	.105"	10'	13'	7'	4'2"	5'0"
36"	.079"	.105"	12'	16'	9'	5'0"	6'0"
42"	.109"	.164"	15'	19'	10'	5'10"	7'0"

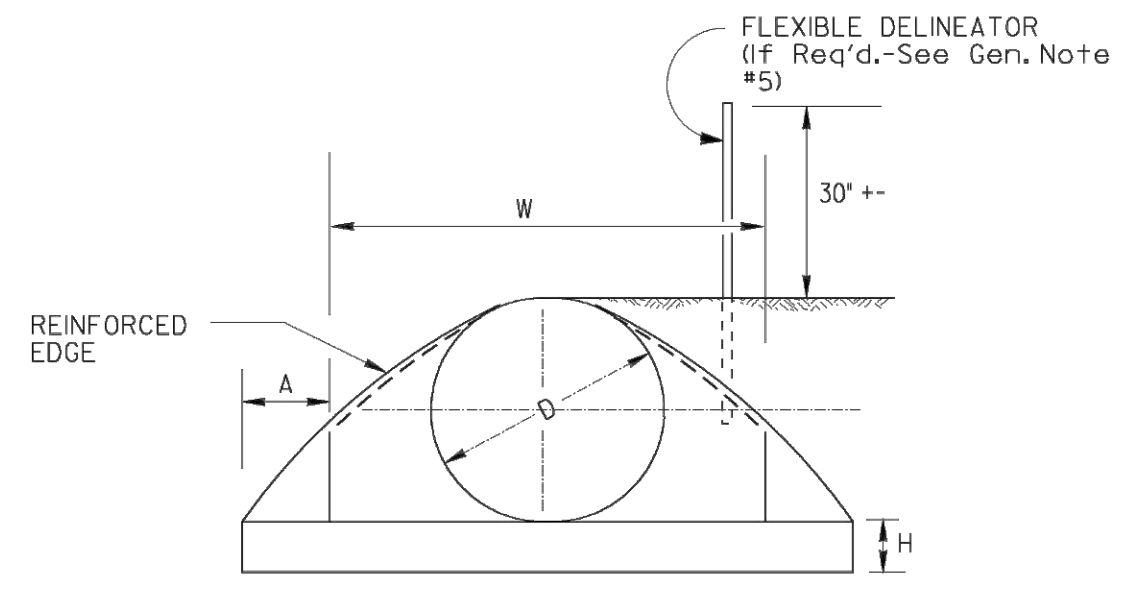
NOTE: WHERE METAL FLARED END SECTIONS ARE USED WITH MULTIPLE PIPE LINES, THE STANDARD SPACING BETWEEN PIPES (S=D OR 3 FT.) MAY HAVE TO BE INCREASED (S=1.75 D TYPICAL), TO PREVENT OVER-LAP OF END SECTION WINGTIPS. SEE ALSO STD. 10300.



PLAN



NOTE: SLOPE DRAIN PIPES WILL REQUIRE AN ELBOW FOR CONNECTION TO THE FLARED END SECTION. PAYMENT FOR SLOPE DRAIN PIPE WILL INCLUDE THIS ELBOW.



NOTE 'B':

THE CONNECTION BETWEEN METAL FLARED END SECTION AND C.M. PIPE WILL BE ONE OF THE FOLLOWING:

- A STRAP BAND OR THREADED ROD PROVIDED BY THE MANUFACTURER WILL LOCK END SECTION ONTO PIPE. A CORRUGATION AT THE PIPE AND WILL BE NON-SPIRALED (PERPENDICULAR TO CL OF PIPE)
- A DIMPLE BAND COLLAR WILL BE SHOP BOLTED TO END SECTION. PIPE WILL BE INSERTED INTO BAND COLLAR TO MEET THE END SECTION.
- A STUB PIPE WILL BE RIVETED TO THE END SECTION AND THE MAIN PIPE CONNECTED TO THE STUB WITH A NORMAL CONNECTING BAND.
- OTHER TYPE CONNECTION IF RECOMMENDED BY MANUFACTURER AND APPROVED BY THE D.O.T.

6-9-06		DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA			
REV. REFLECTIVE SHEETING		REVISION		STANDARD FLARED END SECTIONS FOR PIPES			
NO SCALE		REV. & REDR. SEPT., 1999		NUMBER 1120			
DES.	(SUBMITTED)	STATE ROAD & AIRPORT DESIGN ENGINEER		BY			
REV.	(APPROVED)	CHIEF ENGINEER		CHK.			

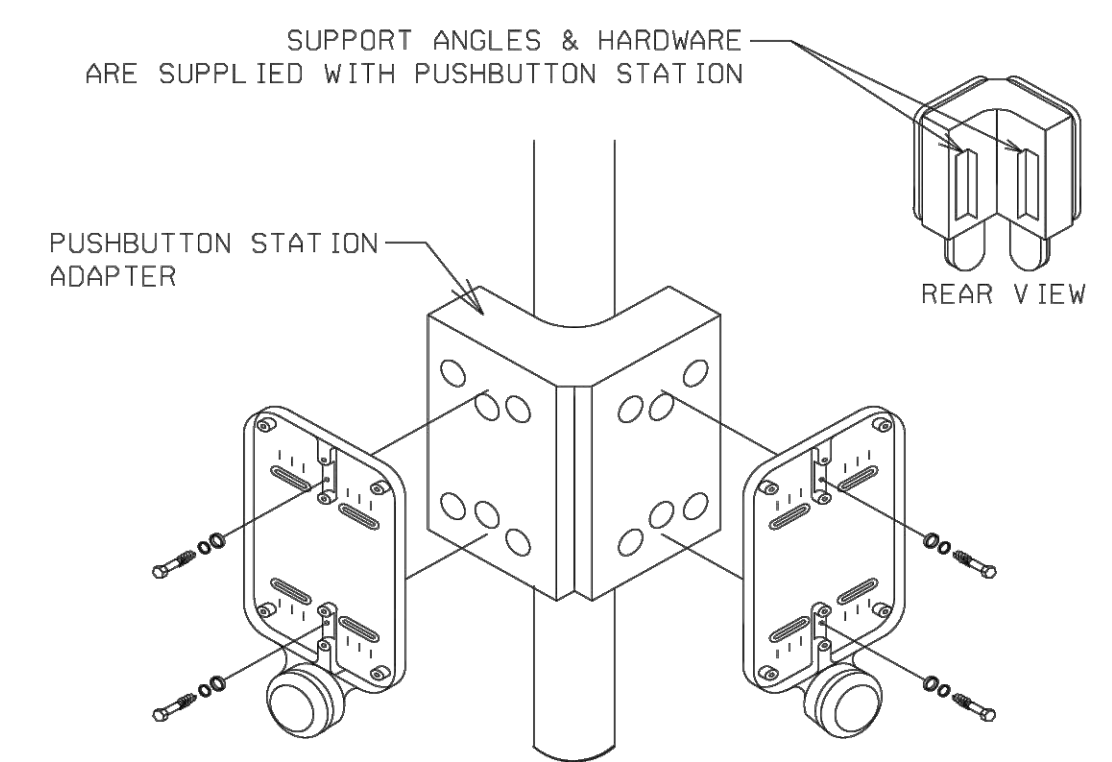
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Keck+Wood
 COLLABORATION BY DESIGN
 3090 PREMIERE PARKWAY, SUITE 200
 DULUTH, GA 30097
 (678) 417-4000 keckwood.com

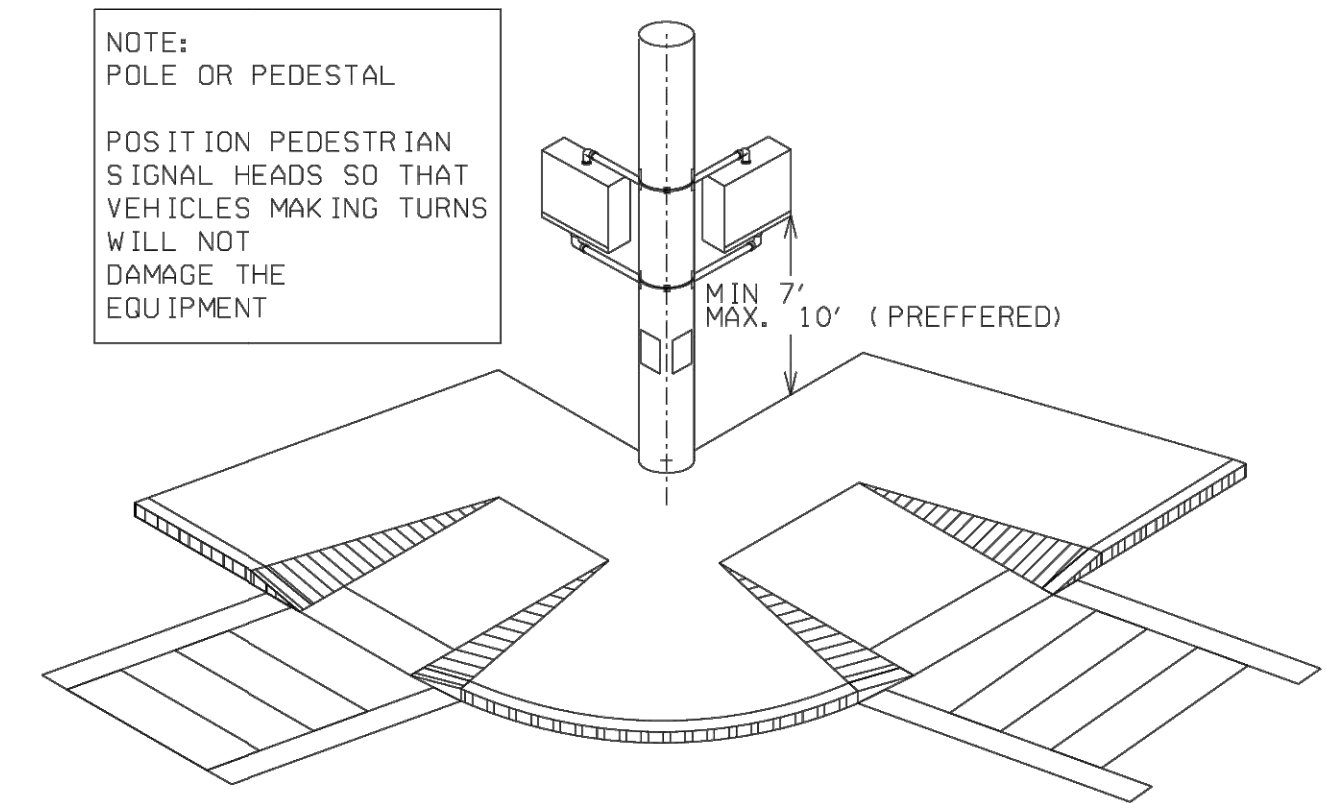
REVISION DATES

CONSTRUCTION STANDARDS
 SENOIA ROAD STREETScape IMPROVEMENTS
 TOWN OF TYRONE, GEORGIA

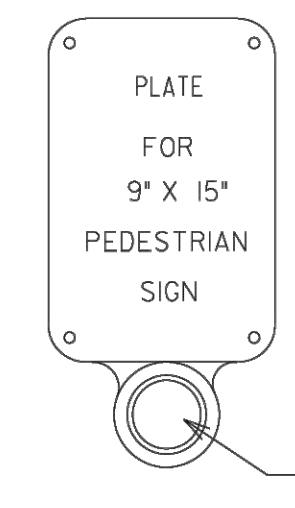
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BACKCHECKED:	DATE:	41-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



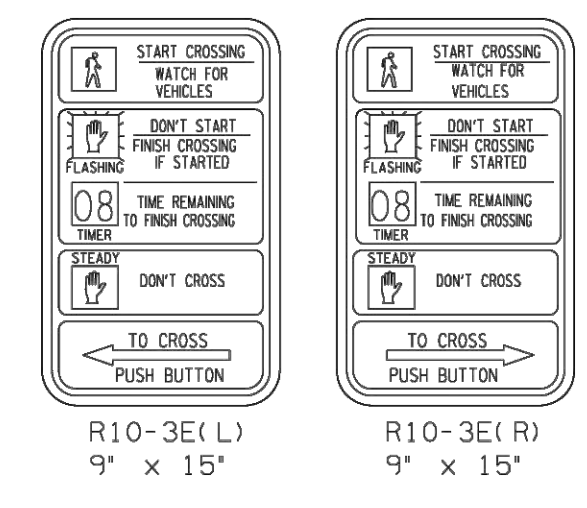
DOUBLE PUSHBUTTON STATION ADAPTER FOR 4" DIA. PEDESTRIAN PEDESTAL



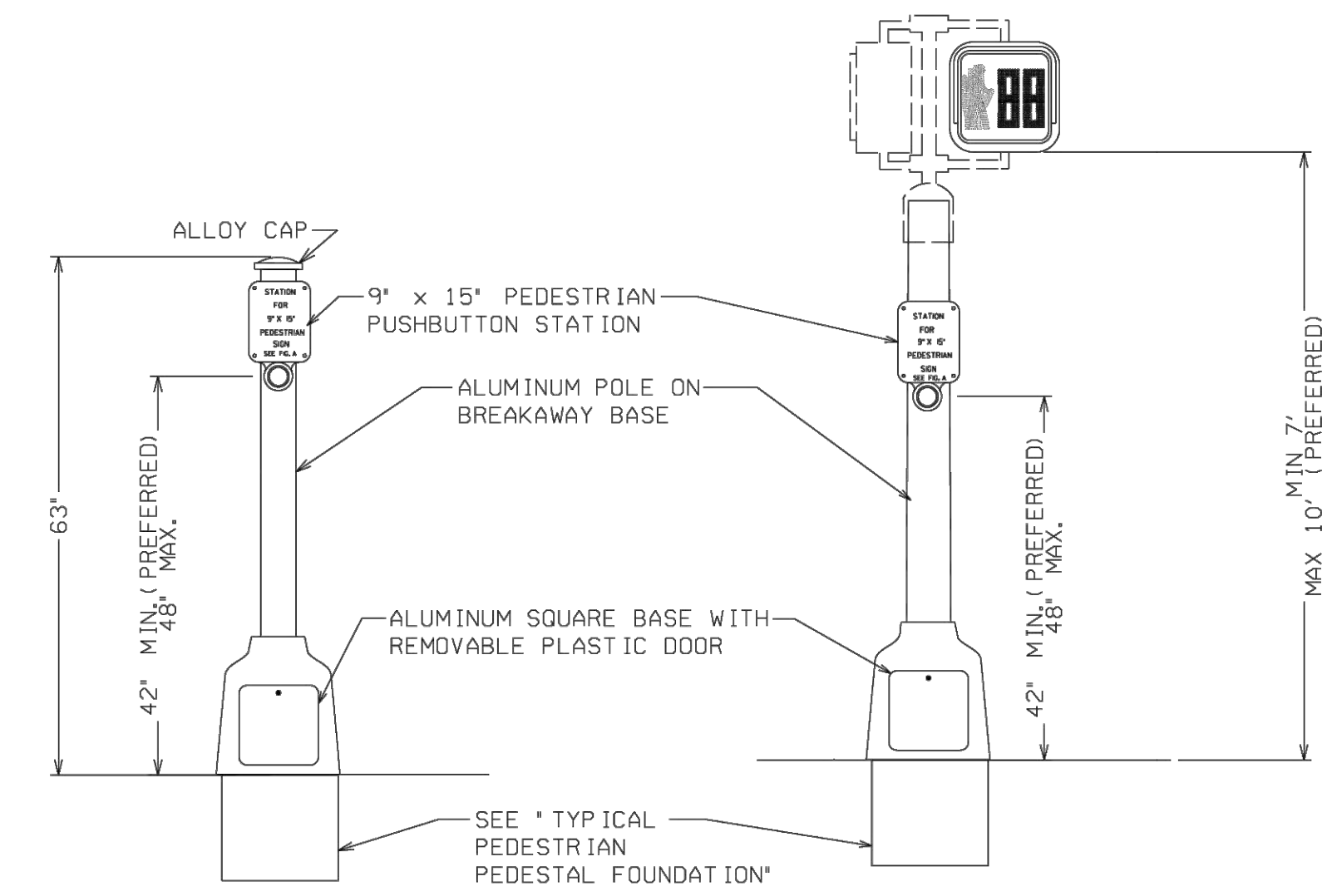
PEDESTRIAN SIGNAL HEAD ORIENTATION FOR SIDE OF POLE MOUNTING



A 'PUSHBUTTON STATION' CONTAINS THE PEDESTRIAN INSTRUCTIONAL SIGN PLATE AND THE PUSHBUTTON



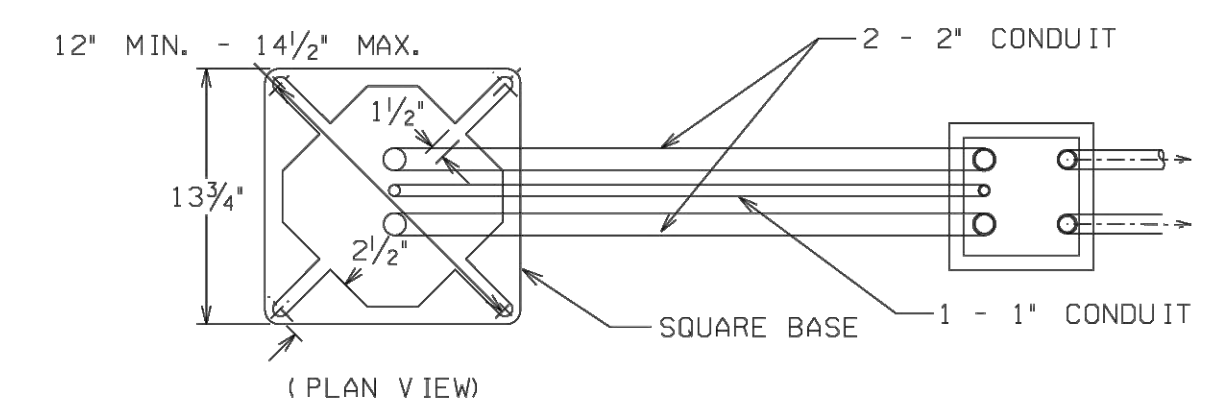
PEDESTRIAN PUSHBUTTON STATION AND SIGNS



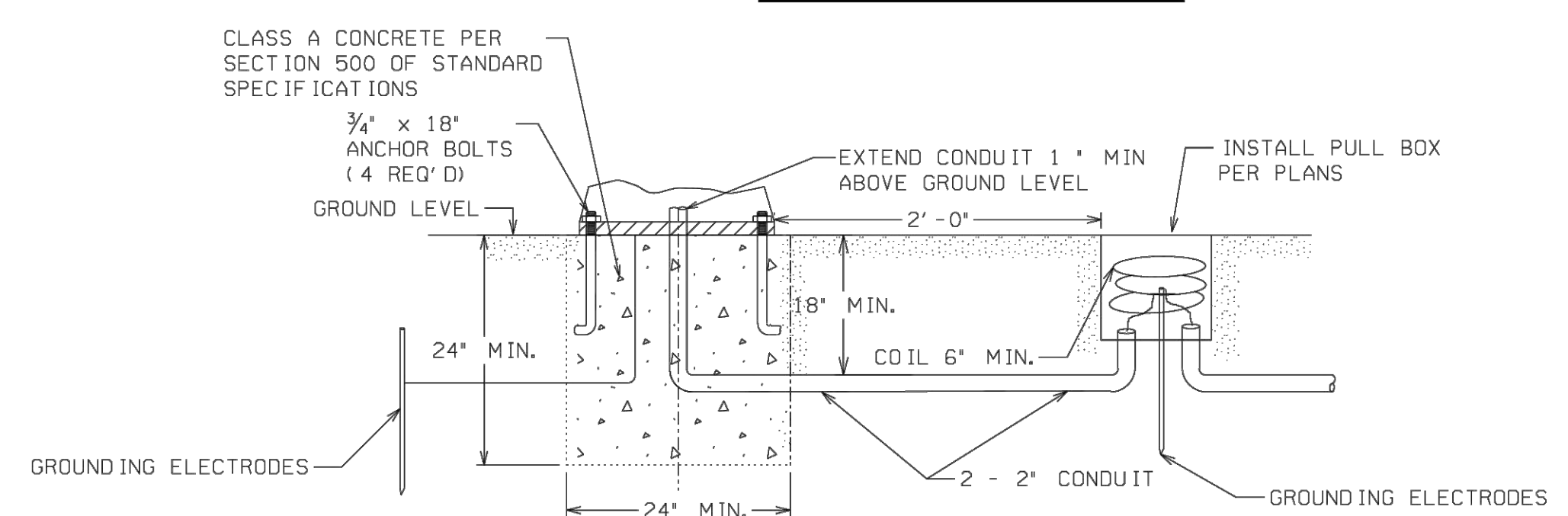
PEDESTRIAN PUSHBUTTON POST

PEDESTRIAN SIGNAL PEDESTAL

NOTE: DETAILS SHOWN ARE FOR TOP POST MOUNTING ASSEMBLY ON 10" PEDESTRIAN POLE. A CLAMHELL MOUNTING ASSEMBLY (NOT SHOWN) MAY BE USED AS APPROVED BY THE DEPARTMENT. THE CLAMHELL MOUNTING HARDWARE ASSEMBLY SHALL MEET THE SAME GDOT STANDARDS AS THE PEDESTRIAN SIGNAL HOUSING IN PAINT AND MATERIAL.



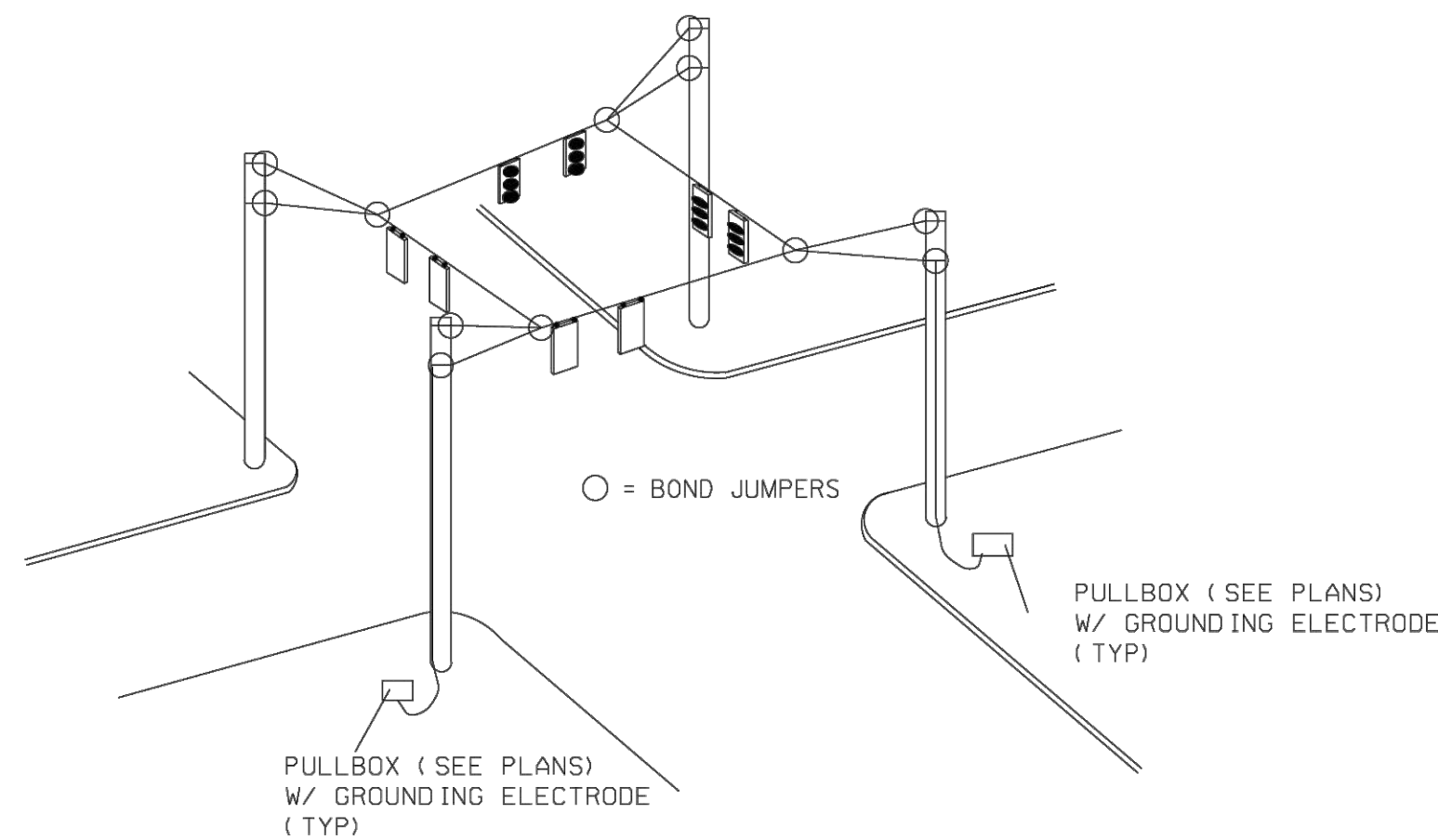
CROSS SECTION A-A



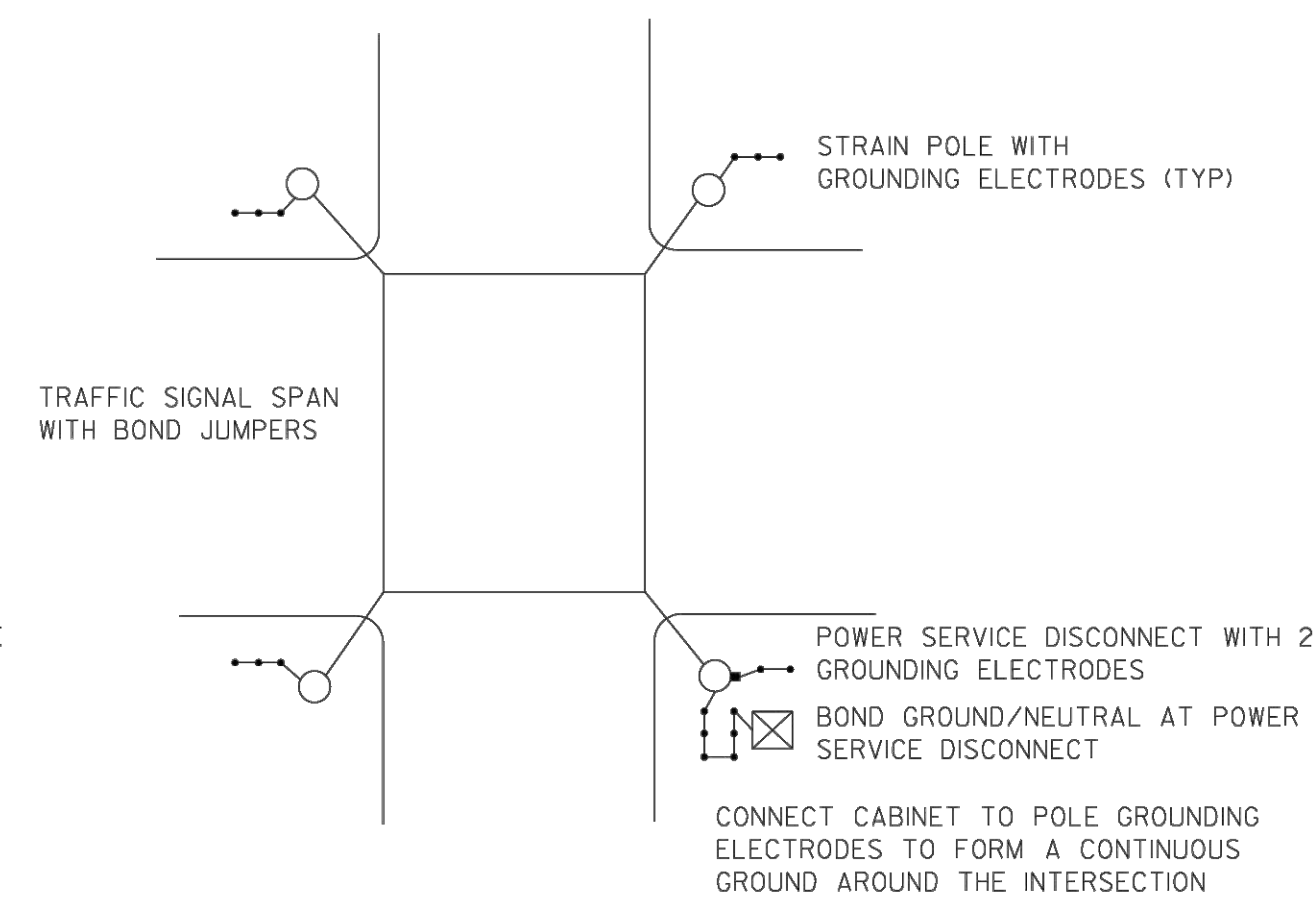
TYPICAL PEDESTRIAN PEDESTAL FOUNDATION

NOTE: SEE TS-06 FOR GROUNDING DETAILS

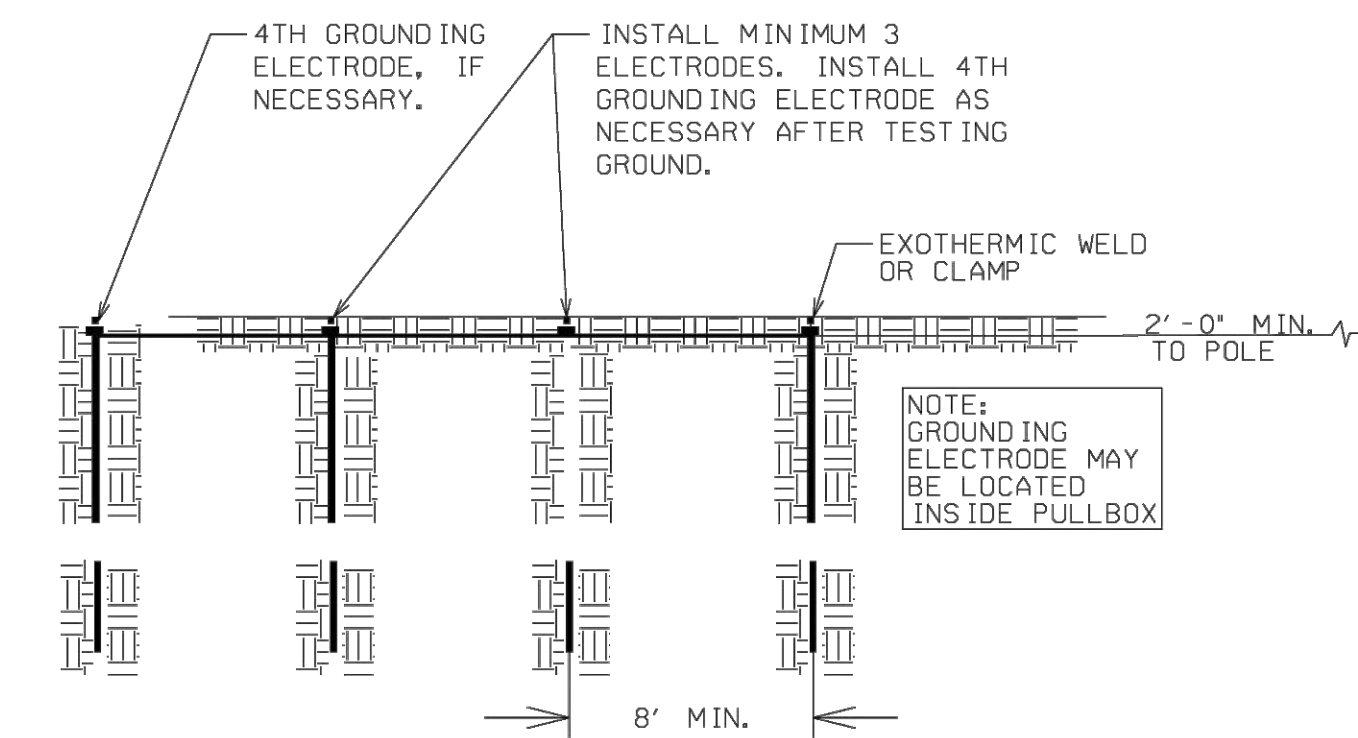
DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
REVISION	CONSTRUCTION DETAIL
BY	PEDESTRIAN FACILITIES INSTALLATION
	NOVEMBER 2020 NO SCALE
	NUMBER TS-03



SPAN WIRE GROUNDING

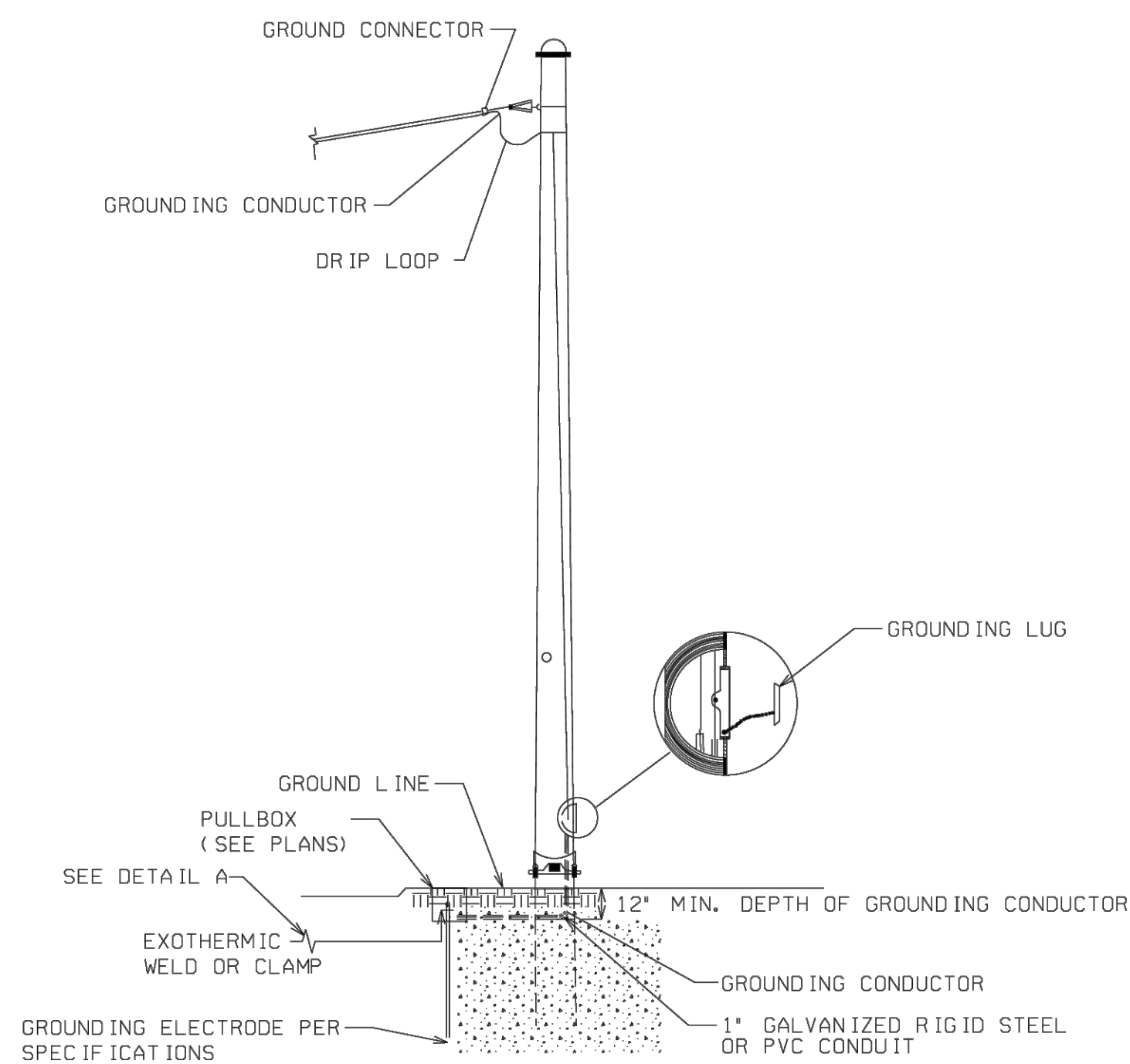


PLAN VIEW GROUNDING

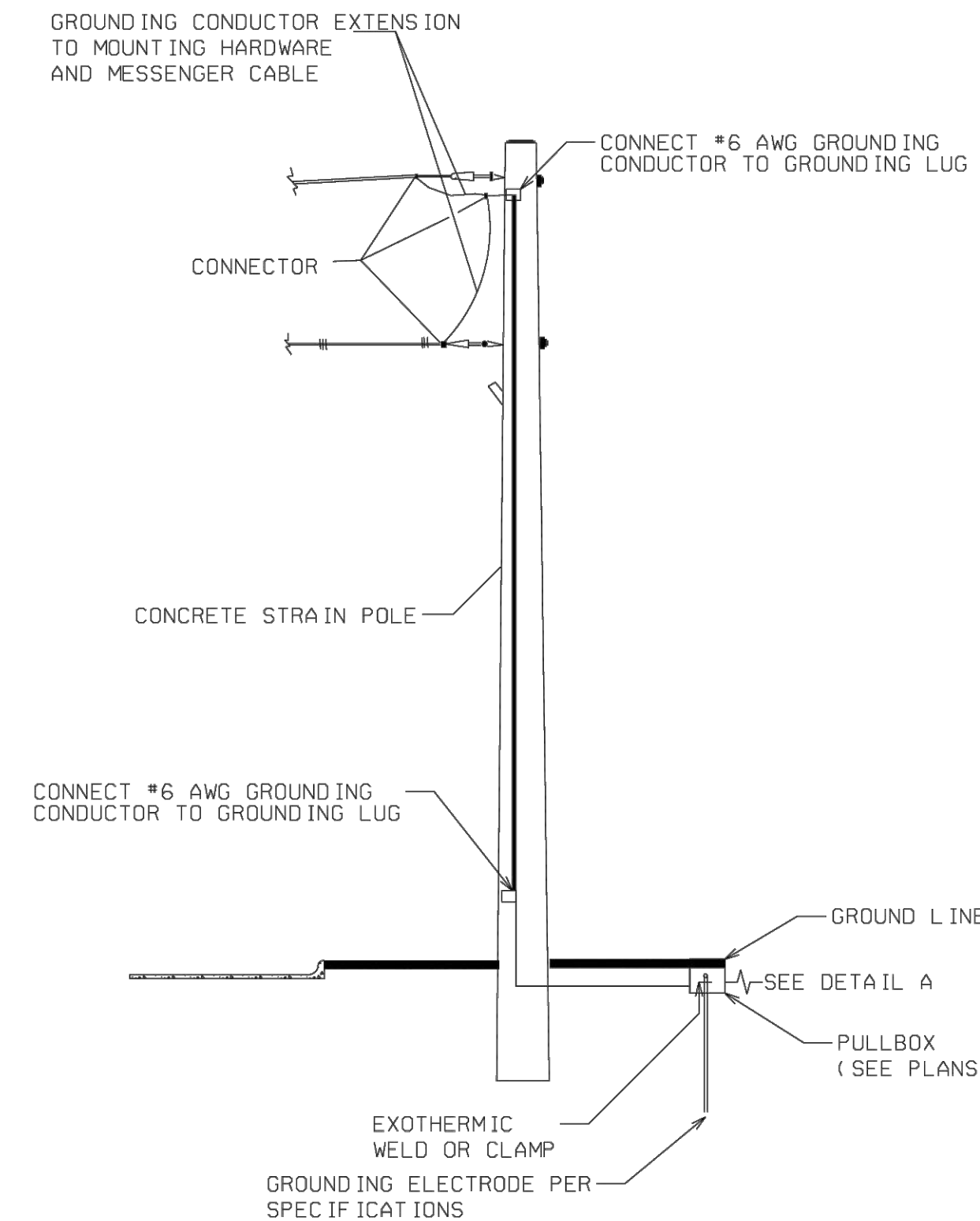


GROUNDING DETAIL A

OPTIONAL: IF DEPTH CANNOT BE OBTAINED, INSTALL HORIZONTAL PER SECTION 647

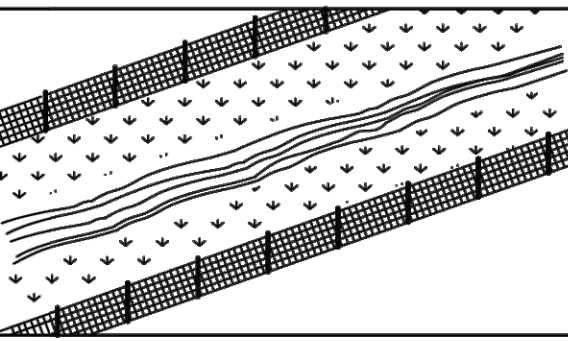

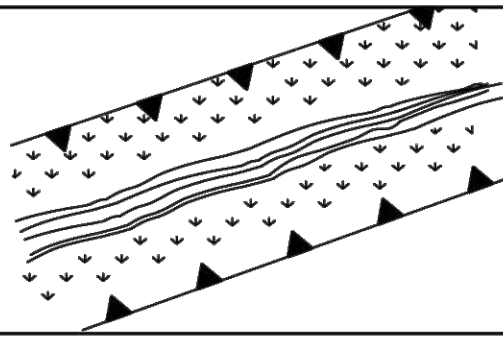

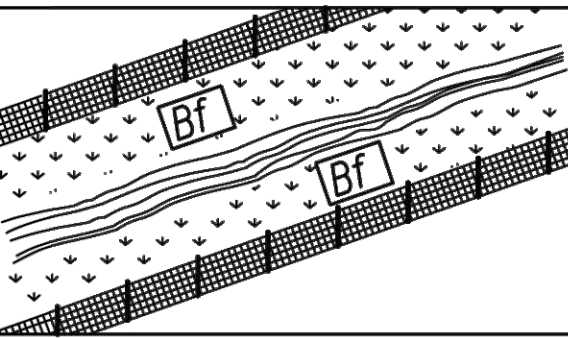
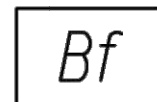
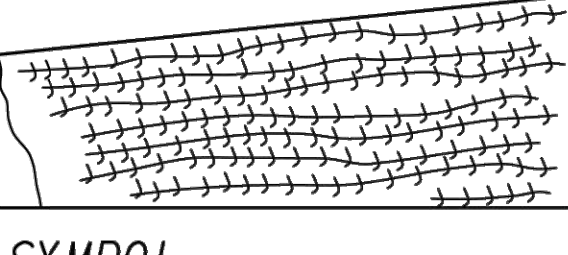
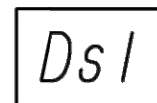
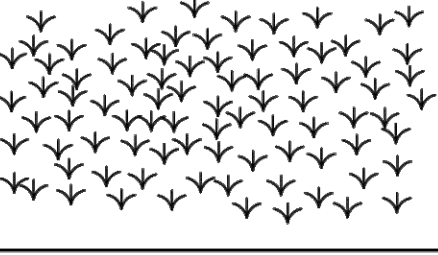
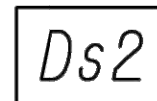


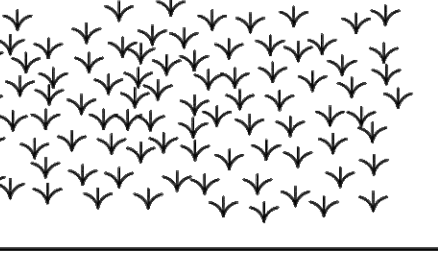
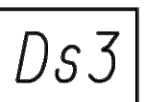
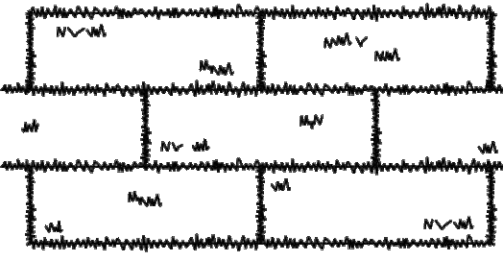

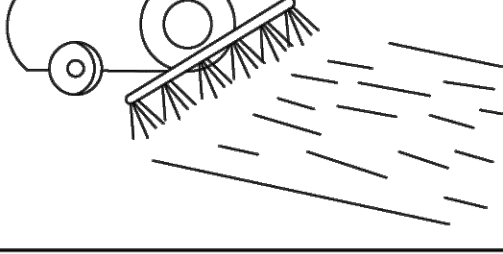
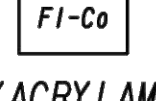
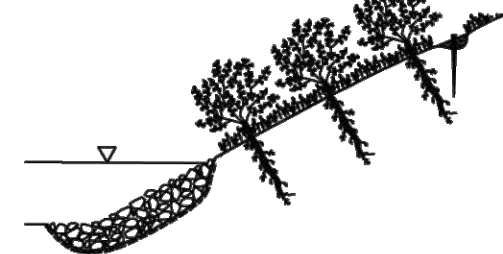

STEEL STRAIN POLE GROUNDING WITH PULLBOX OPTION



CONCRETE STRAIN POLE GROUNDING WITH PULLBOX OPTION

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAIL	
BY		GROUNDING FOR TRAFFIC SIGNAL SUPPORT STRUCTURES	
		NOVEMBER 2020 NO SCALE	NUMBER TS-06

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE  ORANGE BARRIER FENCE	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		LINE CODE  ESA-25' (OR 50') STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
		SYMBOL 	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER.
		SYMBOL 	THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds2	TEMPORARY GRASSING SECTION 163,700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS.
		SYMBOL 	THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS.
		PATTERN 	THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Fl-Co	FLOCCULANTS COAGULANTS SECTION 163,700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs!
		SYMBOL  POLYACRYLAMIDE	FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
		PATTERN 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

REVISION DATES

NO.	DATE	DESCRIPTION

EROSION CONTROL LEGEND

UNIFORM CODE SHEET
SHEET 1 OF 7

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	52-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
		PATTERN 	
Tac	TACKIFIERS SECTION 163, 700, 895		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
		SYMBOL 	
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASHPAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
		LINE CODE 	
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

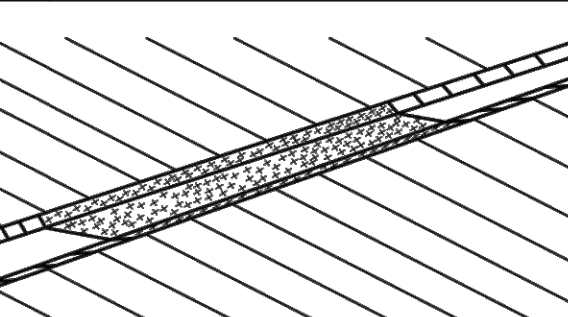

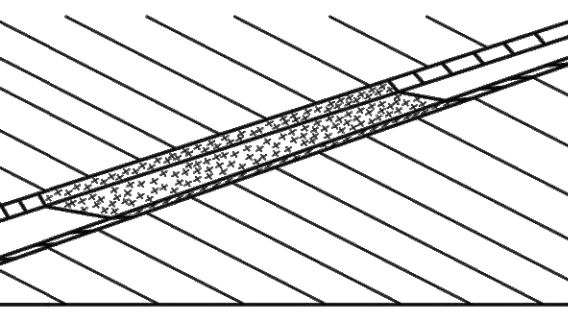

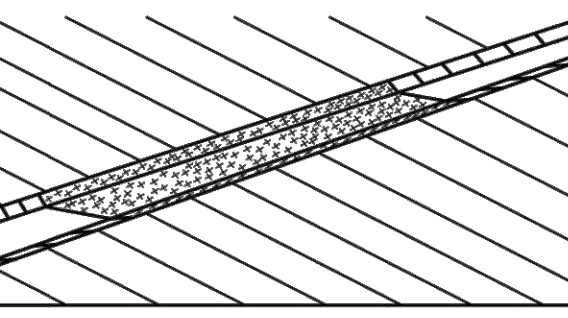

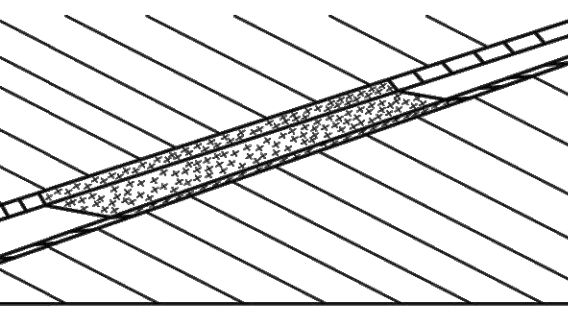

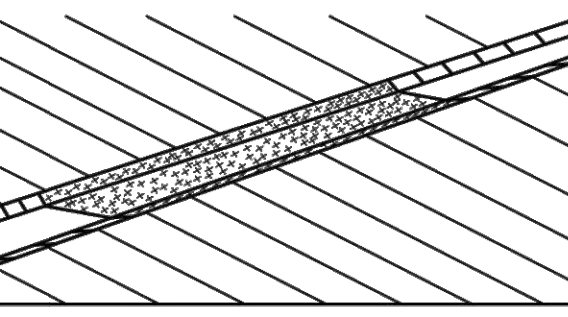



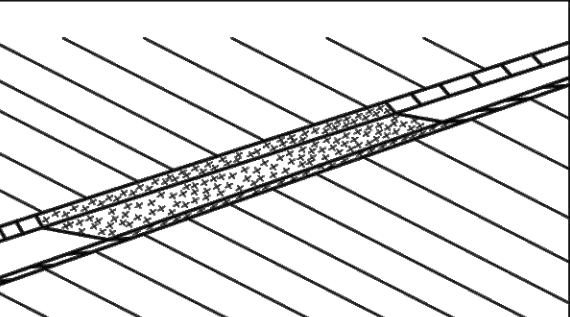

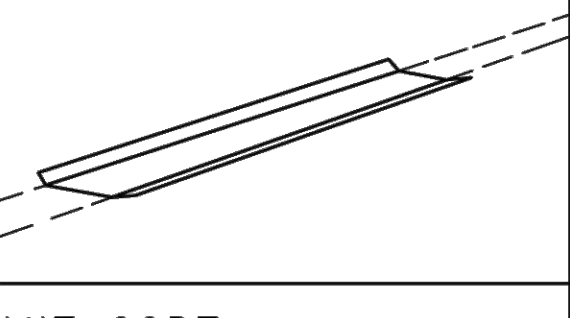

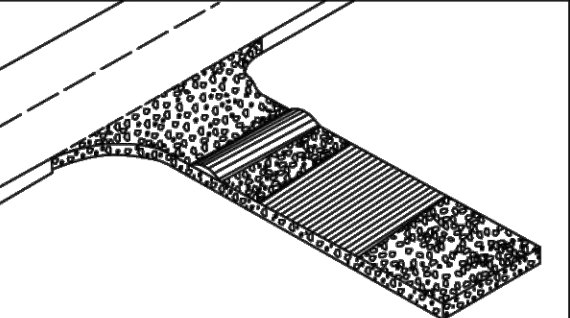

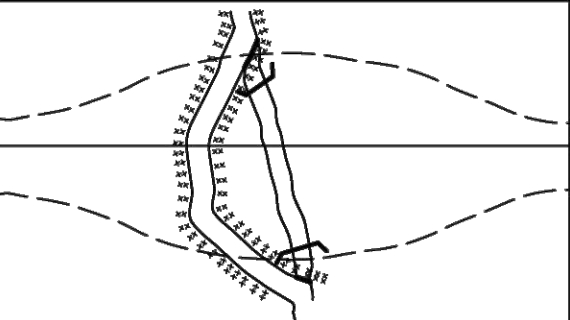

REVISION DATES

EROSION CONTROL LEGEND

UNIFORM CODE SHEET
SHEET 2 OF 7

CHECKED:	DATE:	DRAWING No.
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >/- 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
	LINE CODE		
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I.E. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
	SYMBOL		
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

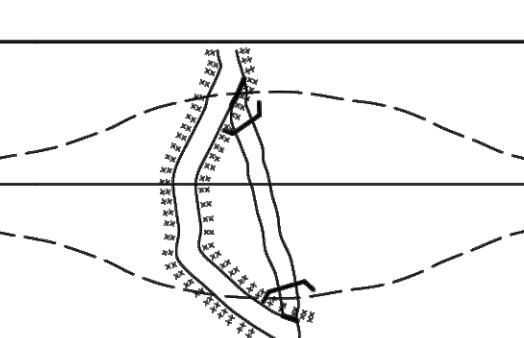
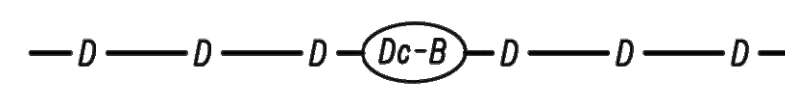
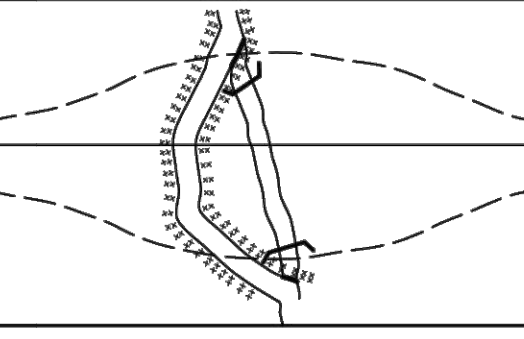
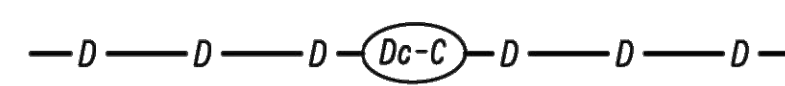
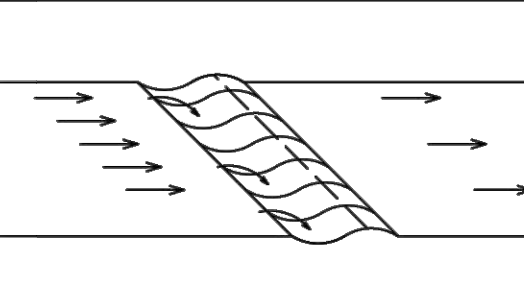
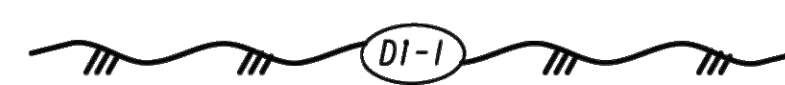
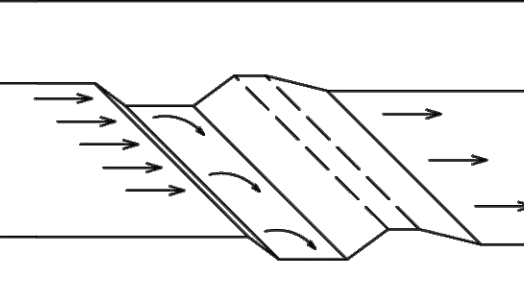
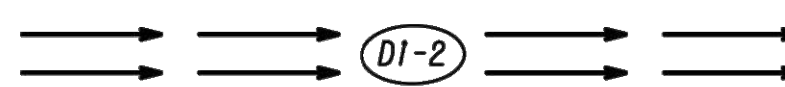
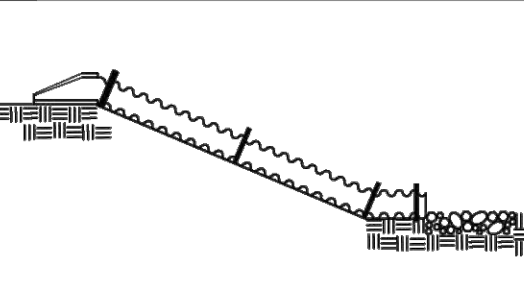
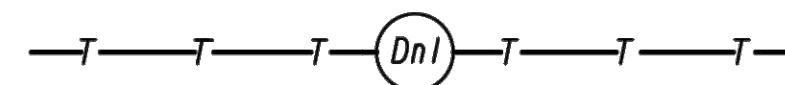


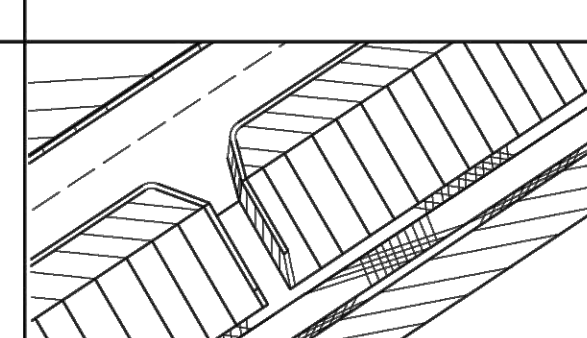

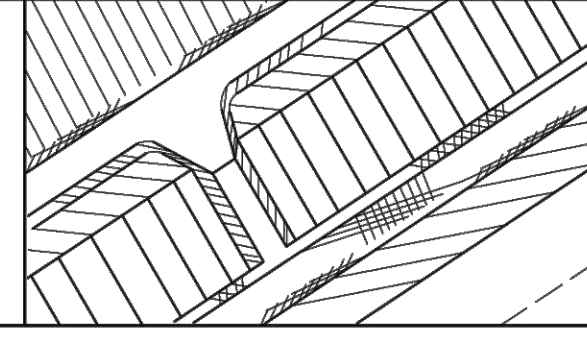

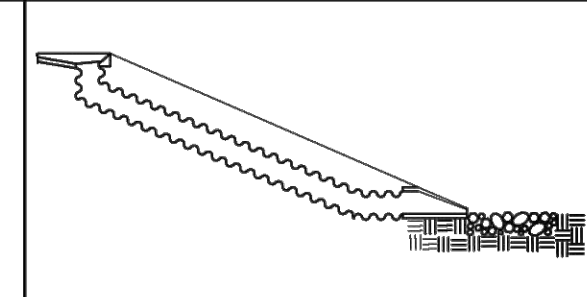

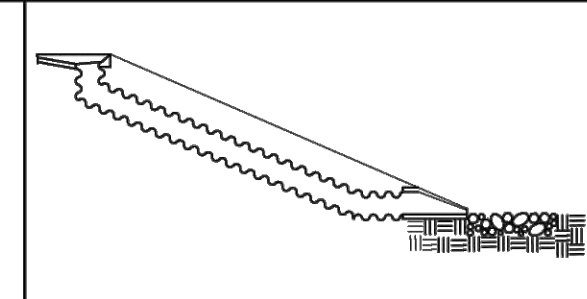

REVISION DATES

EROSION CONTROL LEGEND

UNIFORM CODE SHEET
SHEET 3 OF 7

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	52-0003
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE 		
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE 		
DI-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS *Dn1* OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	LINE CODE 		
DI-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
	LINE CODE 		
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10". THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.
	LINE CODE 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
	LINE CODE 		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

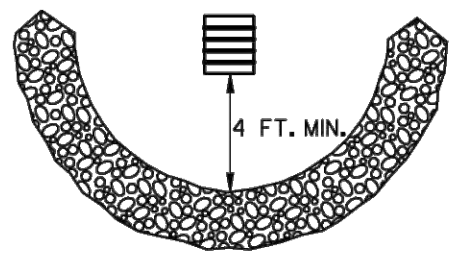

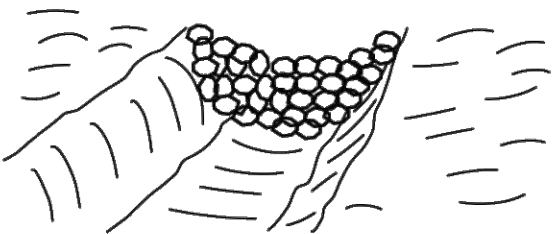

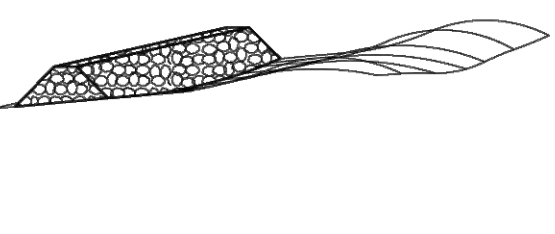

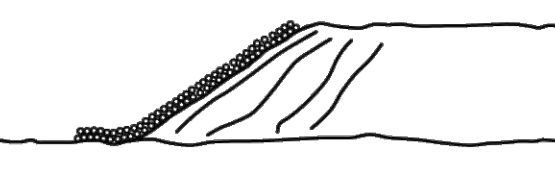
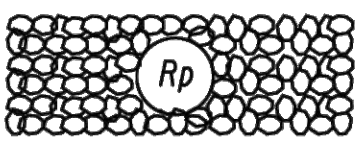
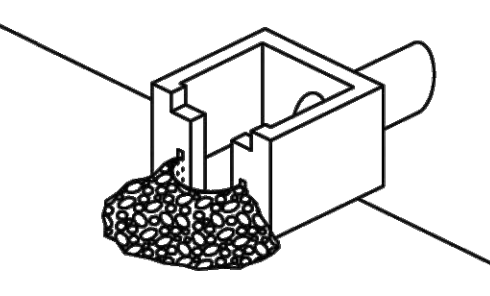

REVISION DATES

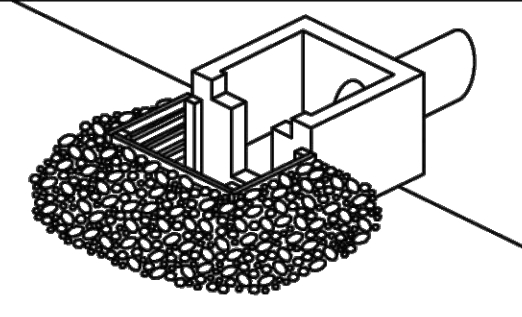

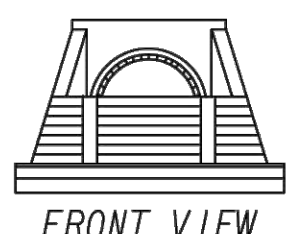

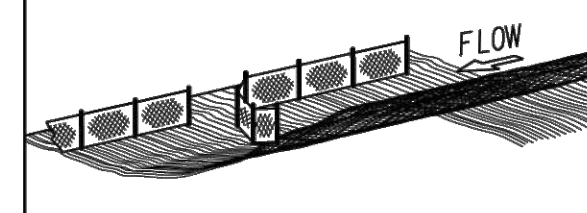

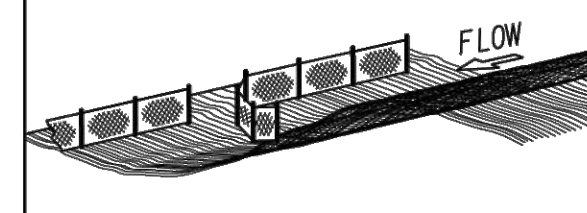

NO.	DATE	DESCRIPTION

EROSION CONTROL LEGEND

UNIFORM CODE SHEET
SHEET 4 OF 7

CHECKED:	DATE:	DRAWING No.
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL 		
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
	SYMBOL 		
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE 		
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN 		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION	
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5" - 1.0" SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.	
	SYMBOL 			
Rt-Sg1	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163		A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1-TYPE 1: USED ON BOX CULVERTS Rt-Sg2-TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3-TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS	
		SYMBOL 		
Sd1-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.	
	LINE CODE 			
Sd1-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.	
	LINE CODE 			

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

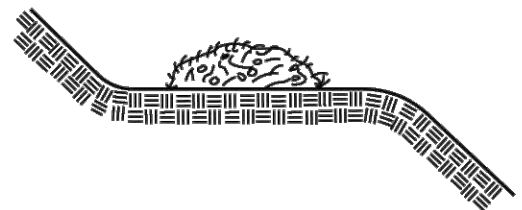
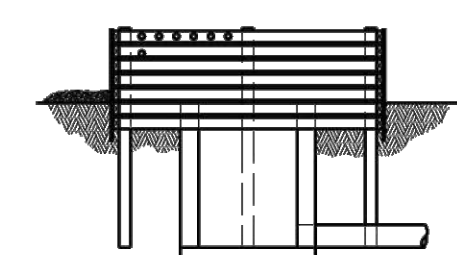
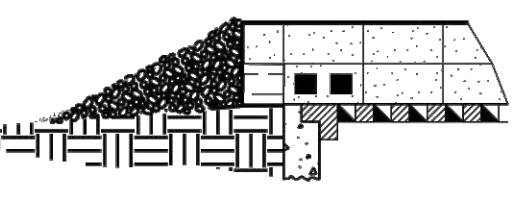
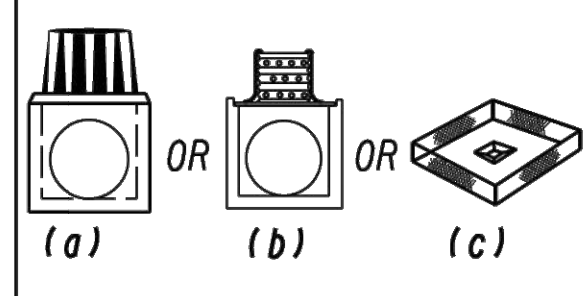
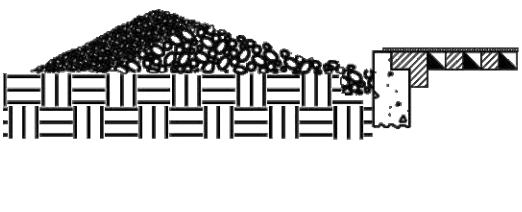
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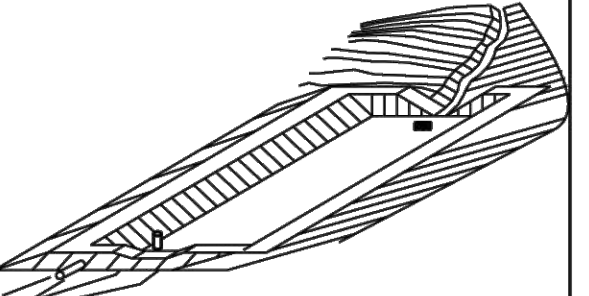
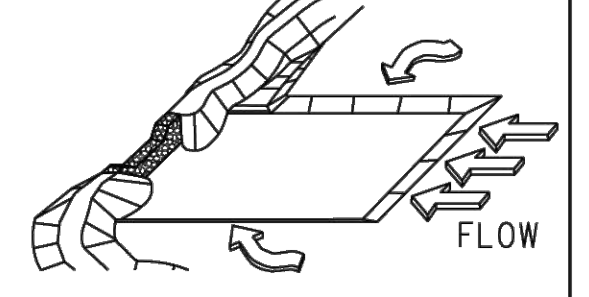
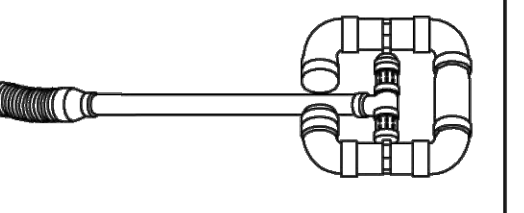
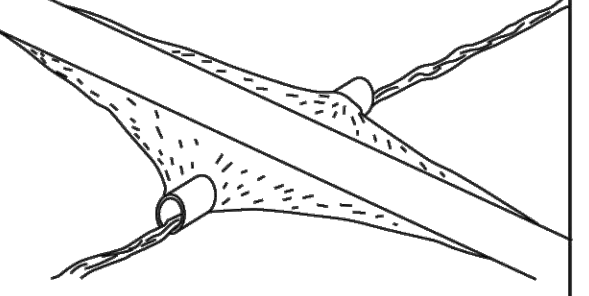
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EROSION CONTROL LEGEND

UNIFORM CODE SHEET
SHEET 5 OF 7

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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	LINE CODE * * * Sd1-BB * * *		
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
	SYMBOL Sd2-B		
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-43 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
	SYMBOL Sd2-Bg		
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL Sd2-F		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL Sd2-G		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Sd3		
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Sd4-C		
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
	SYMBOL Sk		
Sr	TEMPORARY STREAM CROSSING SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!
	SYMBOL Sr		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

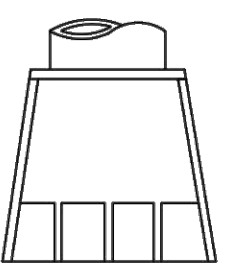

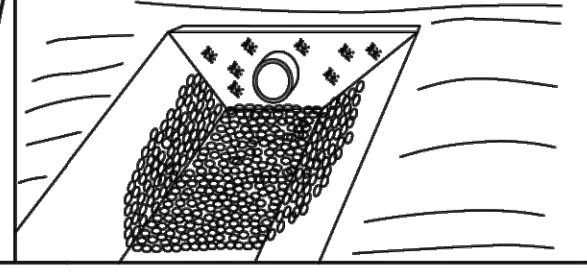
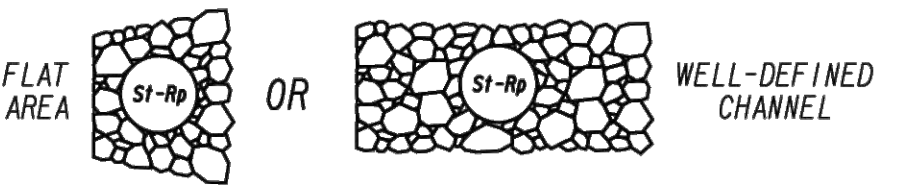
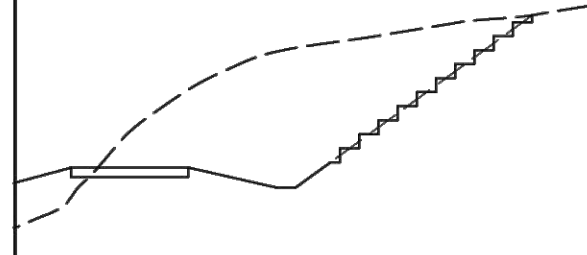
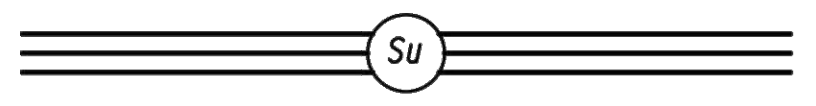
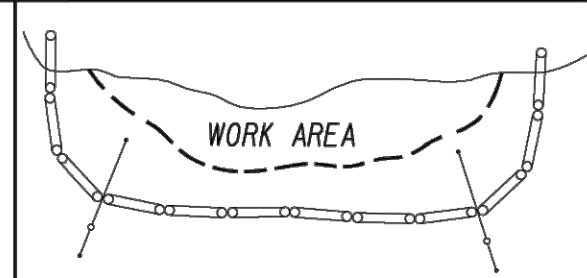
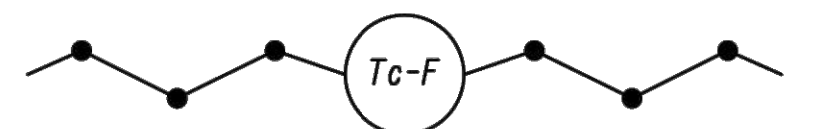
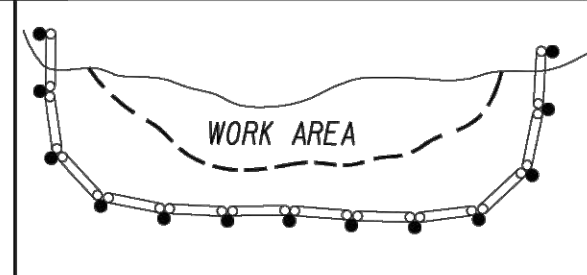

REVISION DATES

NO.	DATE	DESCRIPTION

EROSION CONTROL LEGEND

UNIFORM CODE SHEET
SHEET 6 OF 7

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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
	SYMBOL 		
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 </> 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 </> 0.7 FEET.
	PATTERN 		REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
	LINE CODE 		
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170		A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
	LINE CODE 		
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170		A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
	LINE CODE 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

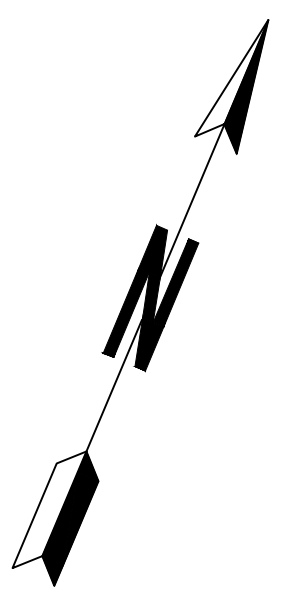
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EROSION CONTROL LEGEND
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SHEET 7 OF 7

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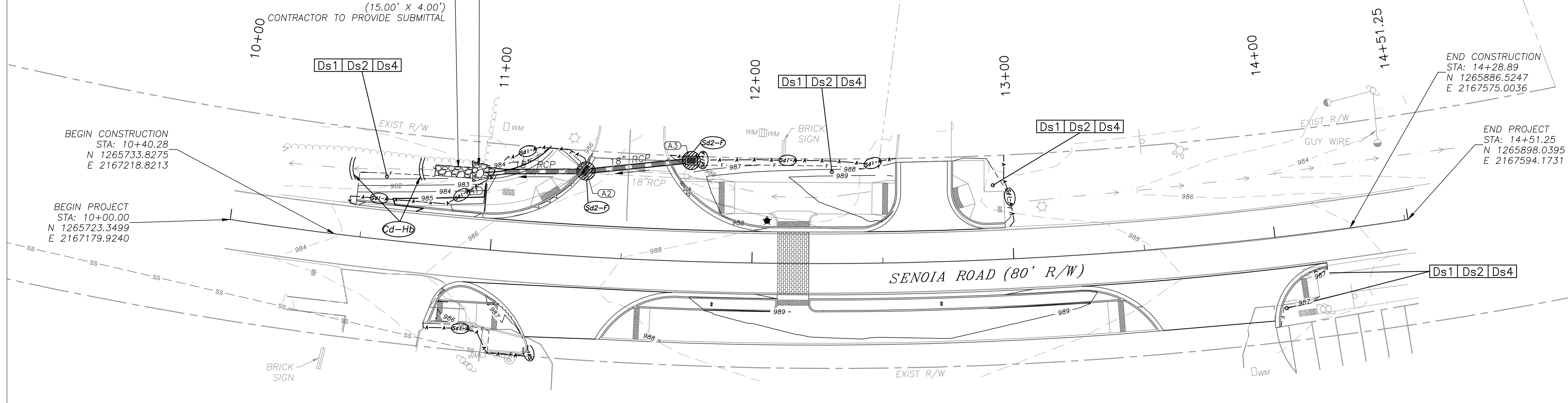
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5210 HOMES LLC

N/F
JOSE ANDRES
CASTANEDA



NORTHEAST RIVER JACK (OR APPROVED EQUAL)
OUTLET PROTECTION
IN LIEU OF GDOT STD.
TP 3 RIP-RAP, 18" DEPTH
(6.00' X 8.00')
CONTRACTOR TO PROVIDE SUBMITTAL

NORTHEAST RIVER JACK (OR APPROVED EQUAL)
OUTLET PROTECTION
IN LIEU OF GDOT STD.
TP 3 RIP-RAP, 18" DEPTH
(15.00' X 4.00')
CONTRACTOR TO PROVIDE SUBMITTAL



BEGIN CONSTRUCTION
STA: 10+40.28
N 1265733.8275
E 2167218.8213

BEGIN PROJECT
STA: 10+00.00
N 1265723.3499
E 2167179.9240

END CONSTRUCTION
STA: 14+28.89
N 1265886.5247
E 2167575.0036

END PROJECT
STA: 14+51.25
N 1265898.0395
E 2167594.1731

TOTAL DISTURBED AREA:
0.198 ACRES

TOTAL ADDITIONAL IMPERVIOUS AREA:
1795 SQ FT

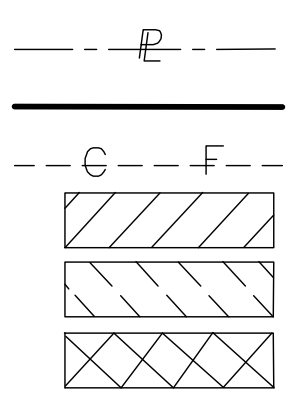
TOTAL ADDITIONAL PERVIOUS AREA:
828 SQ FT

***NOTE:**
CONTRACTOR RESPONSIBLE FOR INSTALLING, REPAIRING,
AND MAINTAINING BMP'S PER APPROVED PLAN

BMP'S TO BE INSTALLED PRIOR TO LAND DISTURBING
ACTIVITIES

STABILIZE DISTURBED AREAS WITHIN 14 DAYS

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
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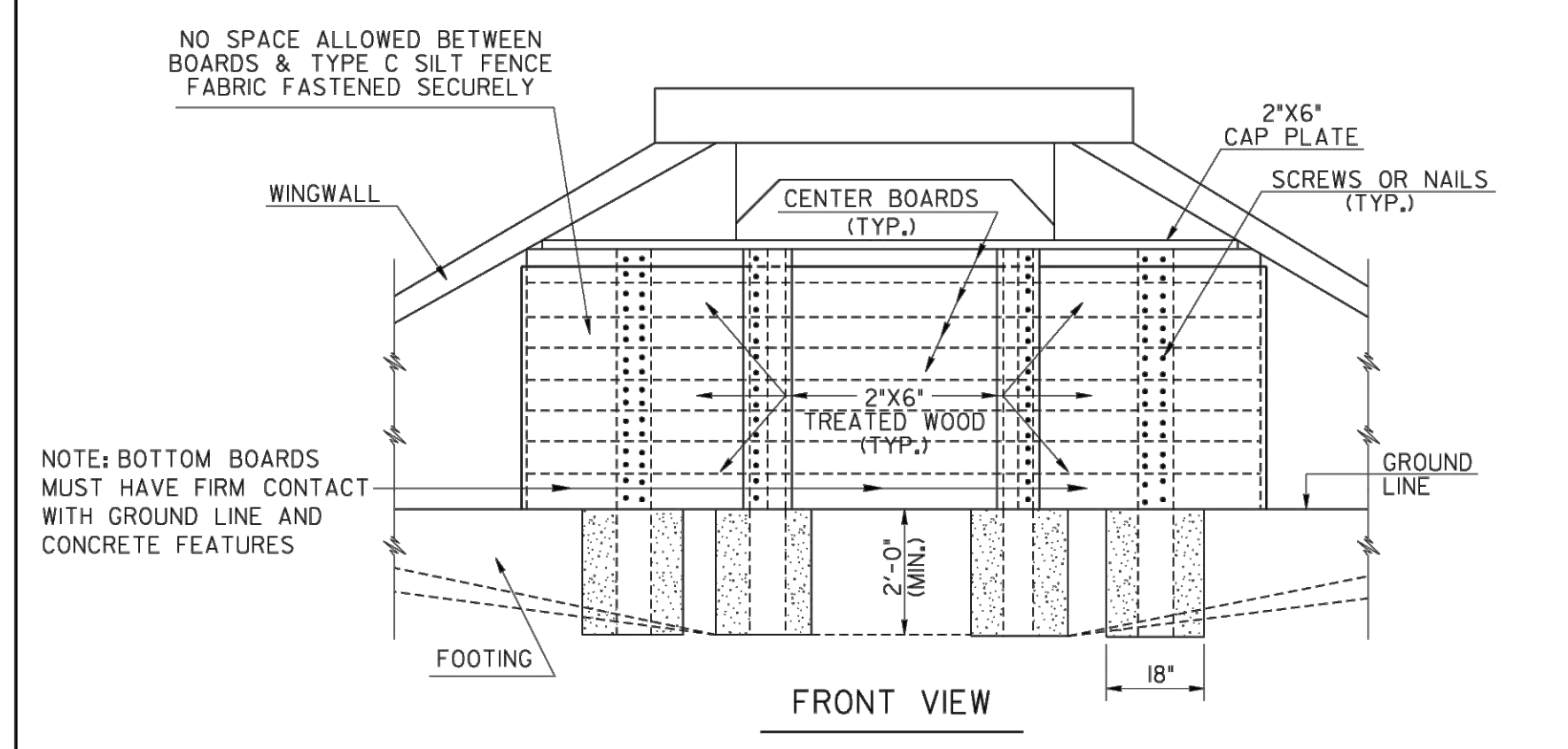
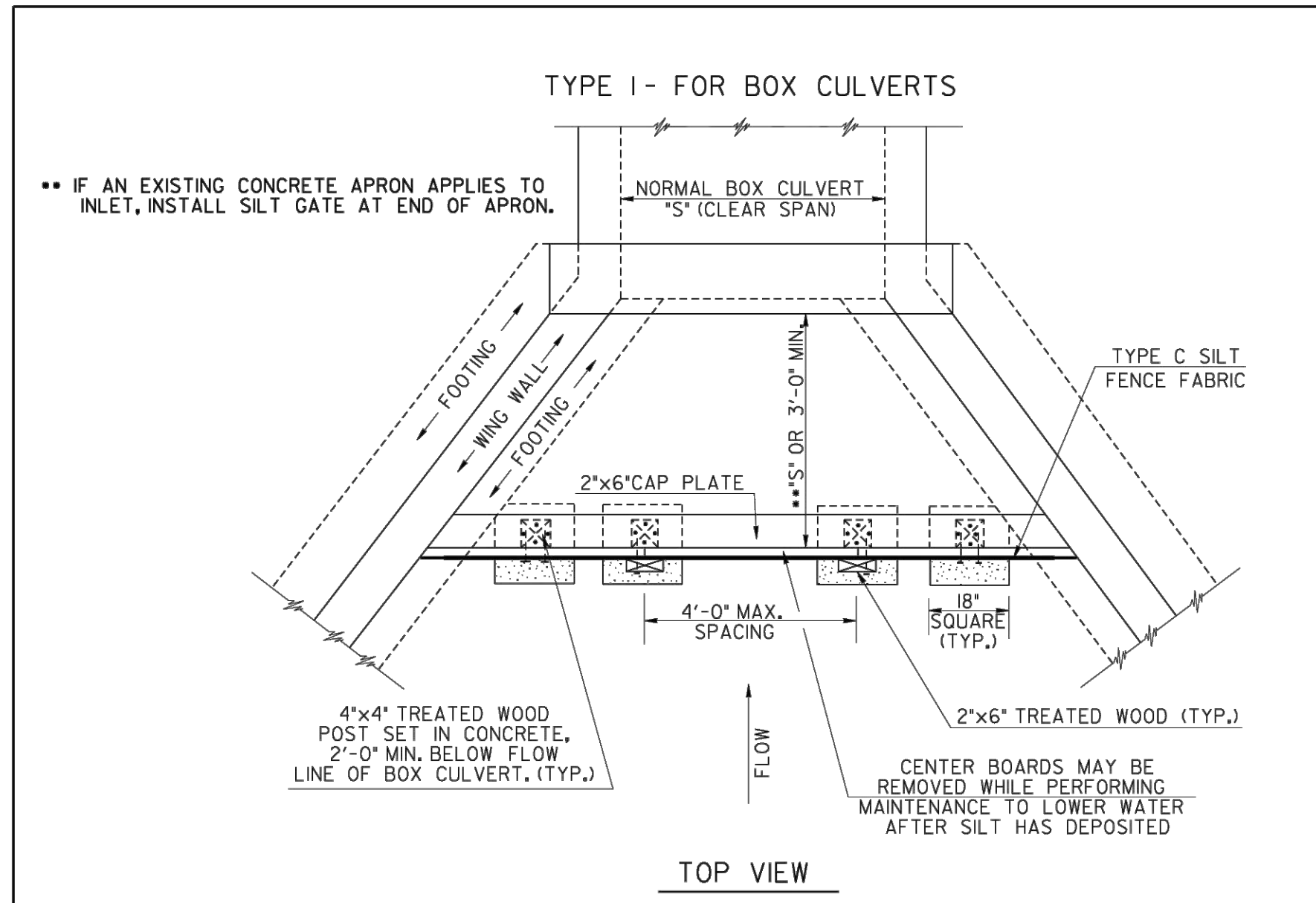
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REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



REVISION DATES	

EROSION CONTROL PLAN			
SENIOIA ROAD STREETScape IMPROVEMENTS			
TOWN OF TYRONE, GEORGIA			
CHECKED:	DATE:	DRAWING No.	
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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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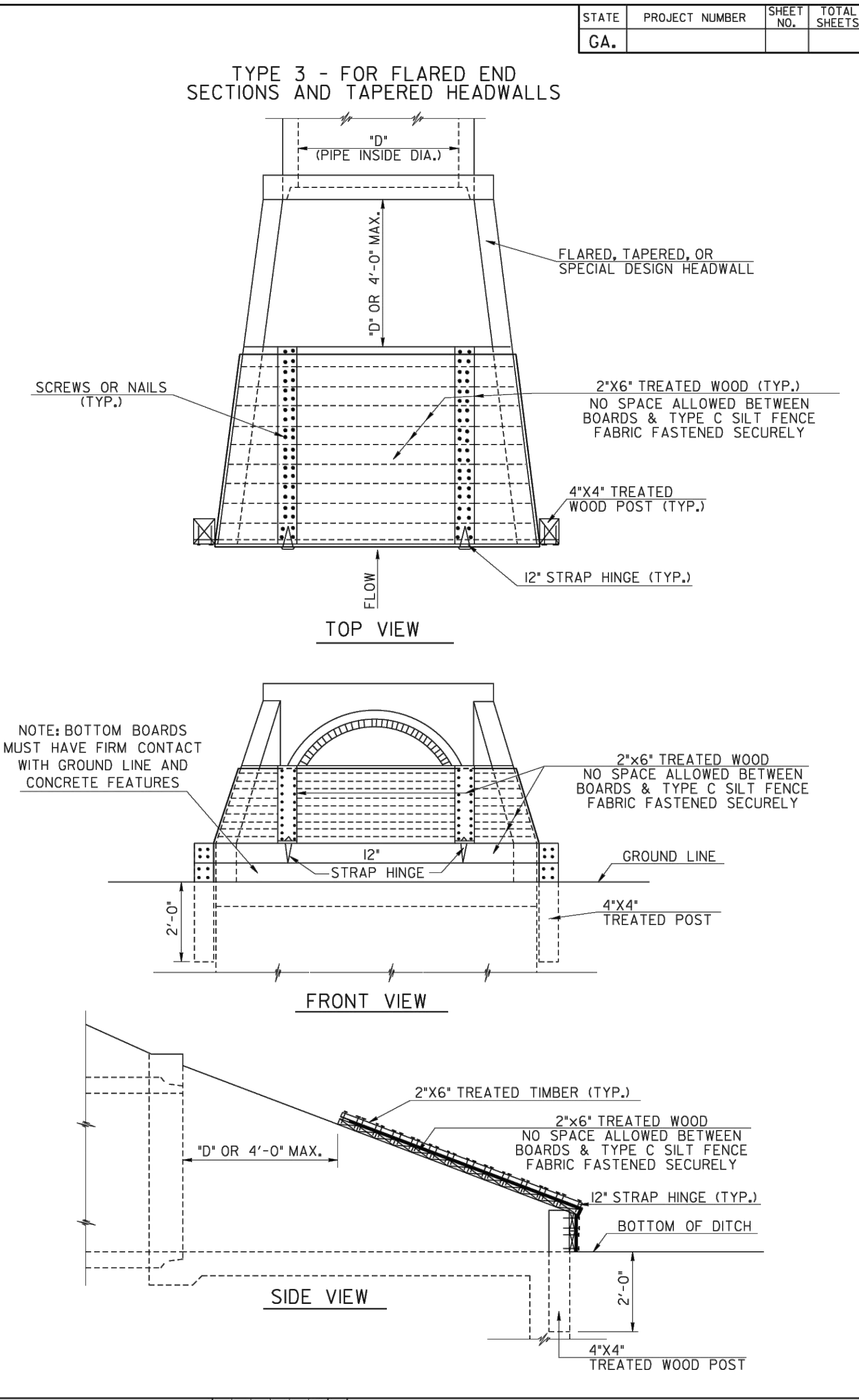
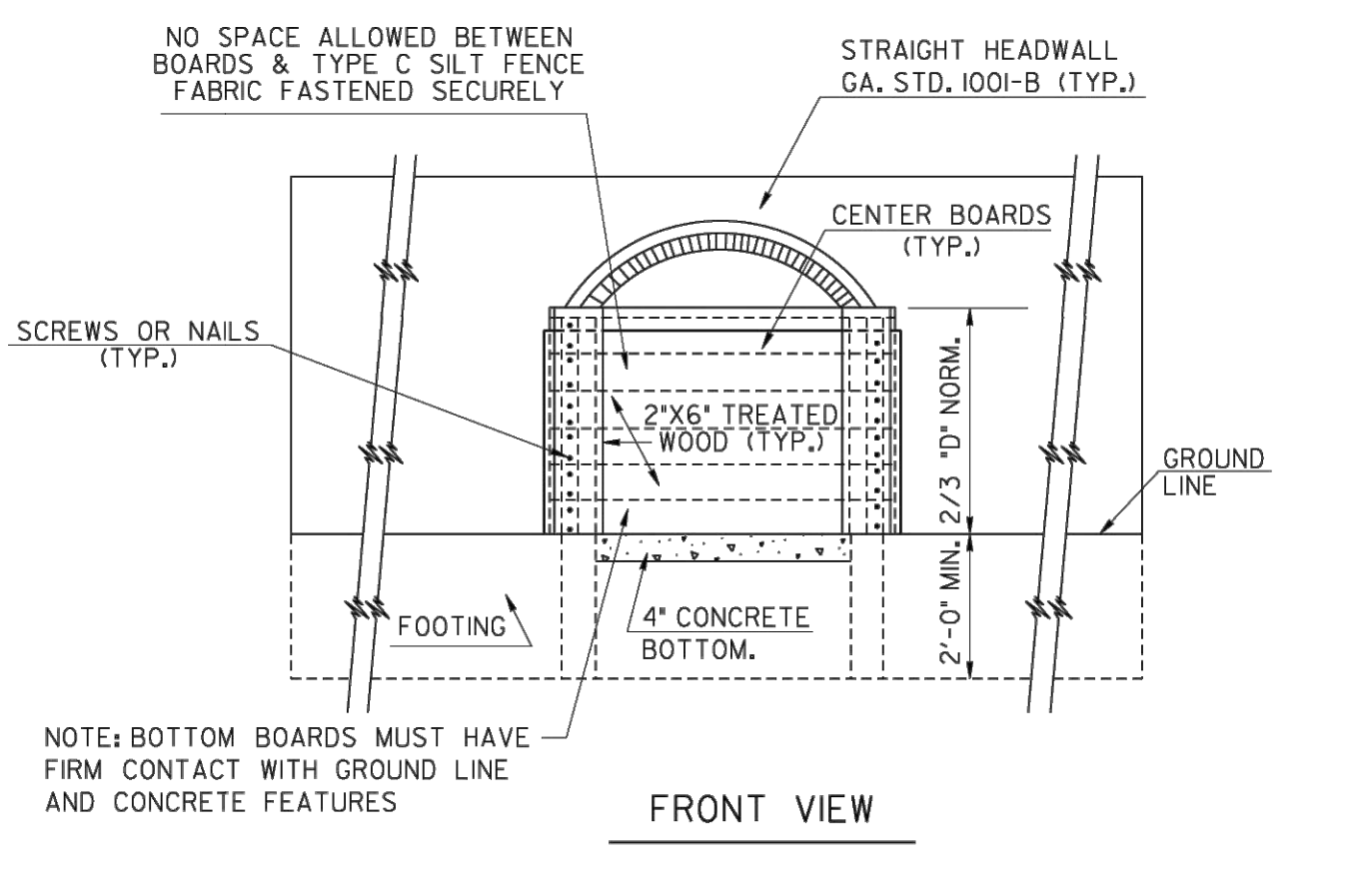
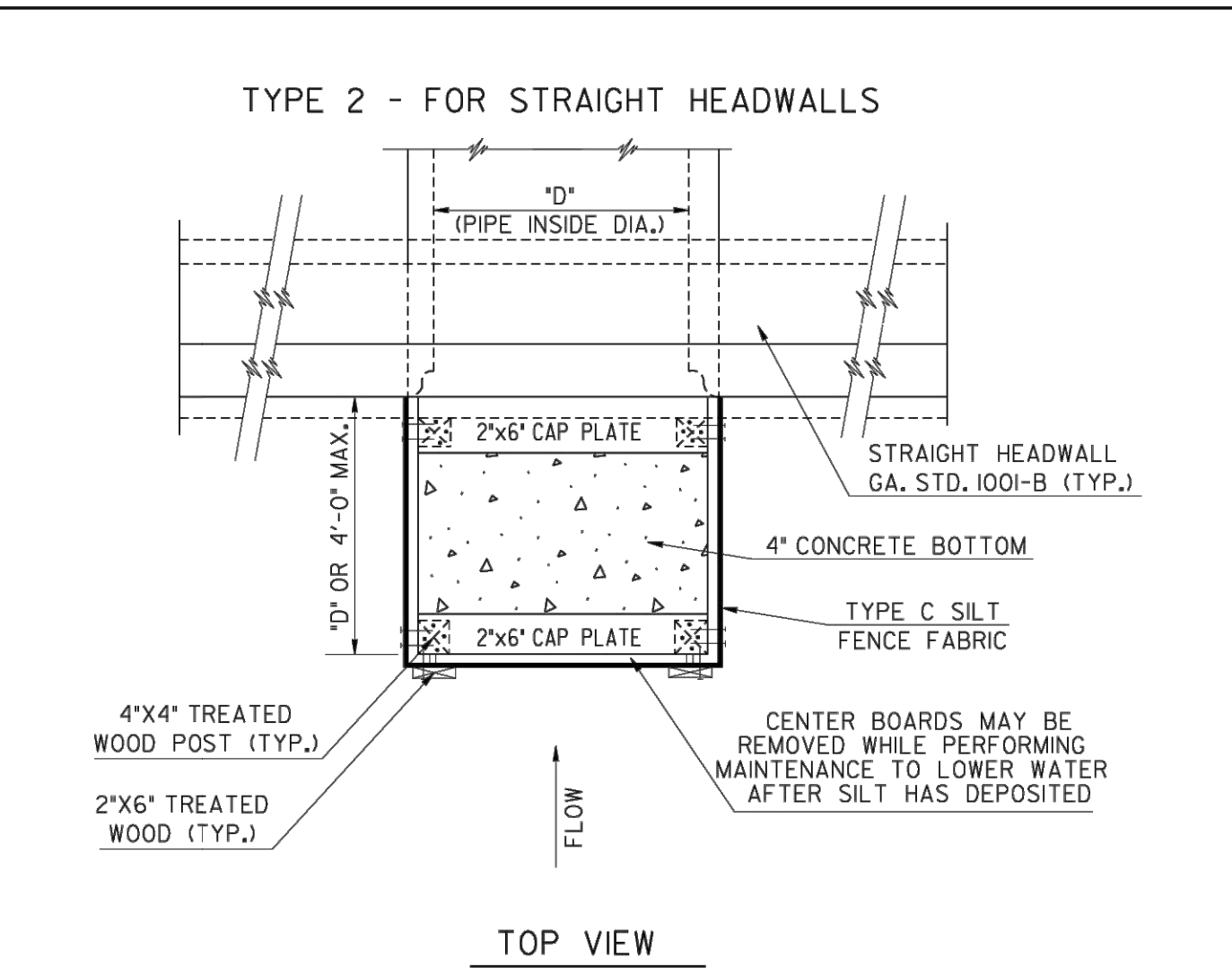


- SILT CONTROL GATE TYPE I NOTES:**
- REFER TO GA. STD 2332 FOR CONCRETE APRONS.
 - SEE SECTION I63 FOR THE REMOVAL OF TYPE I SILT CONTROL GATES.

- GENERAL NOTES:**
- A SILT CONTROL GATE IS A TEMPORARY STRUCTURE PLACED AT INLETS TO FORM A BASIN FOR TRAPPING SEDIMENT.
 - SILT GATES SHALL NOT BE USED ON STRUCTURES THAT CONVEY STATE WATERS.
 - SILT GATES SHALL ONLY BE USED ON DRAINAGE AREAS UP TO 50-ACRES WITH NO MORE THAN 5-ACRES DISTURBED WITHIN THE DRAINAGE AREA.
 - USE WOOD SCREWS OR NAILS TO CONNECT WOOD COMPONENTS WITH NO SPACE ALLOWED BETWEEN BOARDS. TYPE C SILT FENCE FABRIC MUST BE FASTENED SECURELY WITH STAPLES OR NAILS TO OUTSIDE FACE OF BOARDS AND COVERING ALL BUTT-JOINTS BETWEEN BOARDS. OVERLAP ADDITIONAL SILT FENCE FABRIC A MINIMUM OF 12-INCHES.
 - REMOVE SEDIMENT WHEN IT REACHES ONE-THIRD THE HEIGHT OF SILT CONTROL GATE AND SILT FENCE FABRIC SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED.

PAY ITEMS:

163-0501	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 1	(EA)
163-0502	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 2	(EA)
163-0503	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	(EA)
165-0085	MAINTENANCE OF SILT CONTROL GATE, TP 1	(EA)
165-0086	MAINTENANCE OF SILT CONTROL GATE, TP 2	(EA)
165-0087	MAINTENANCE OF SILT CONTROL GATE, TP 3	(EA)

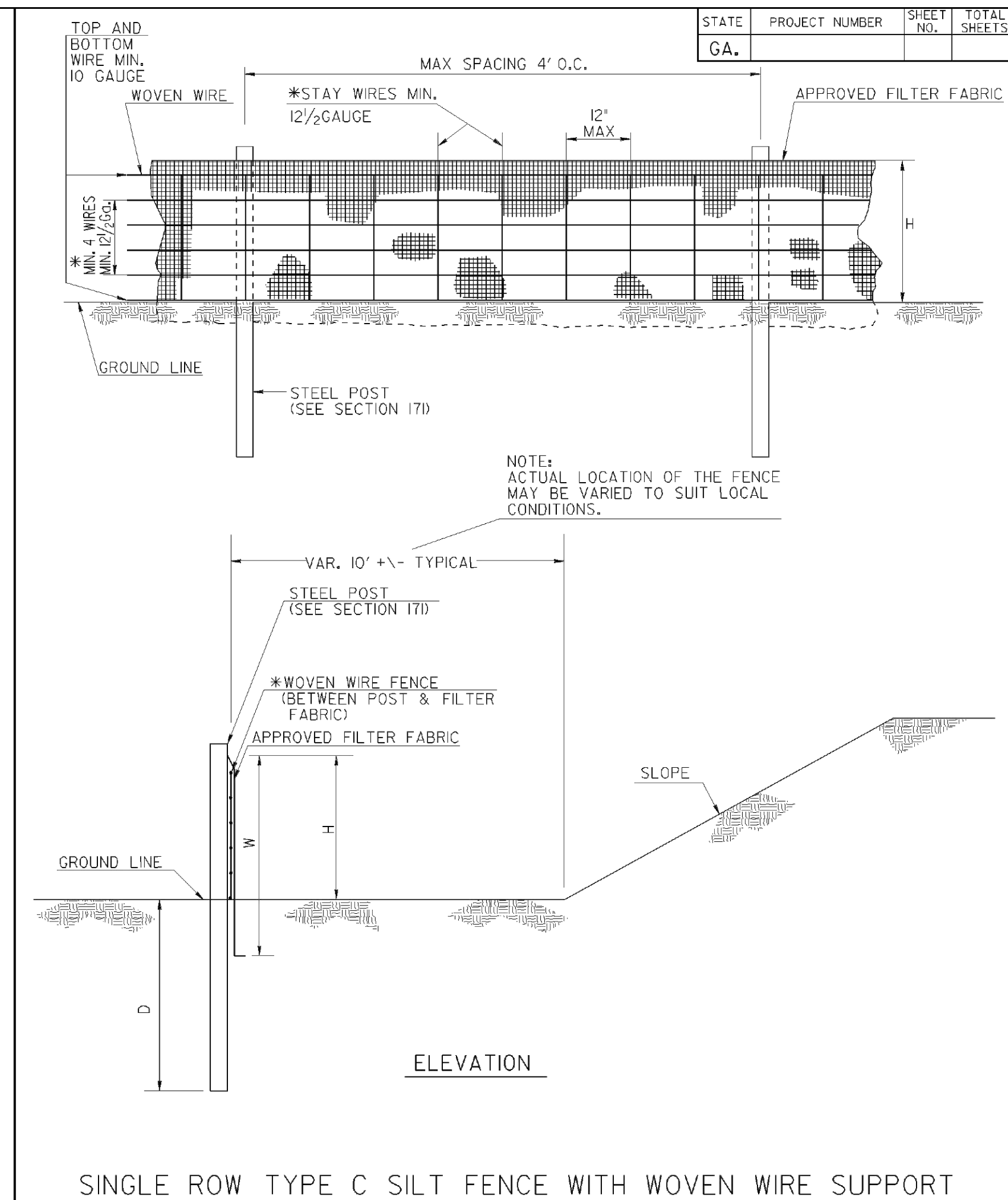
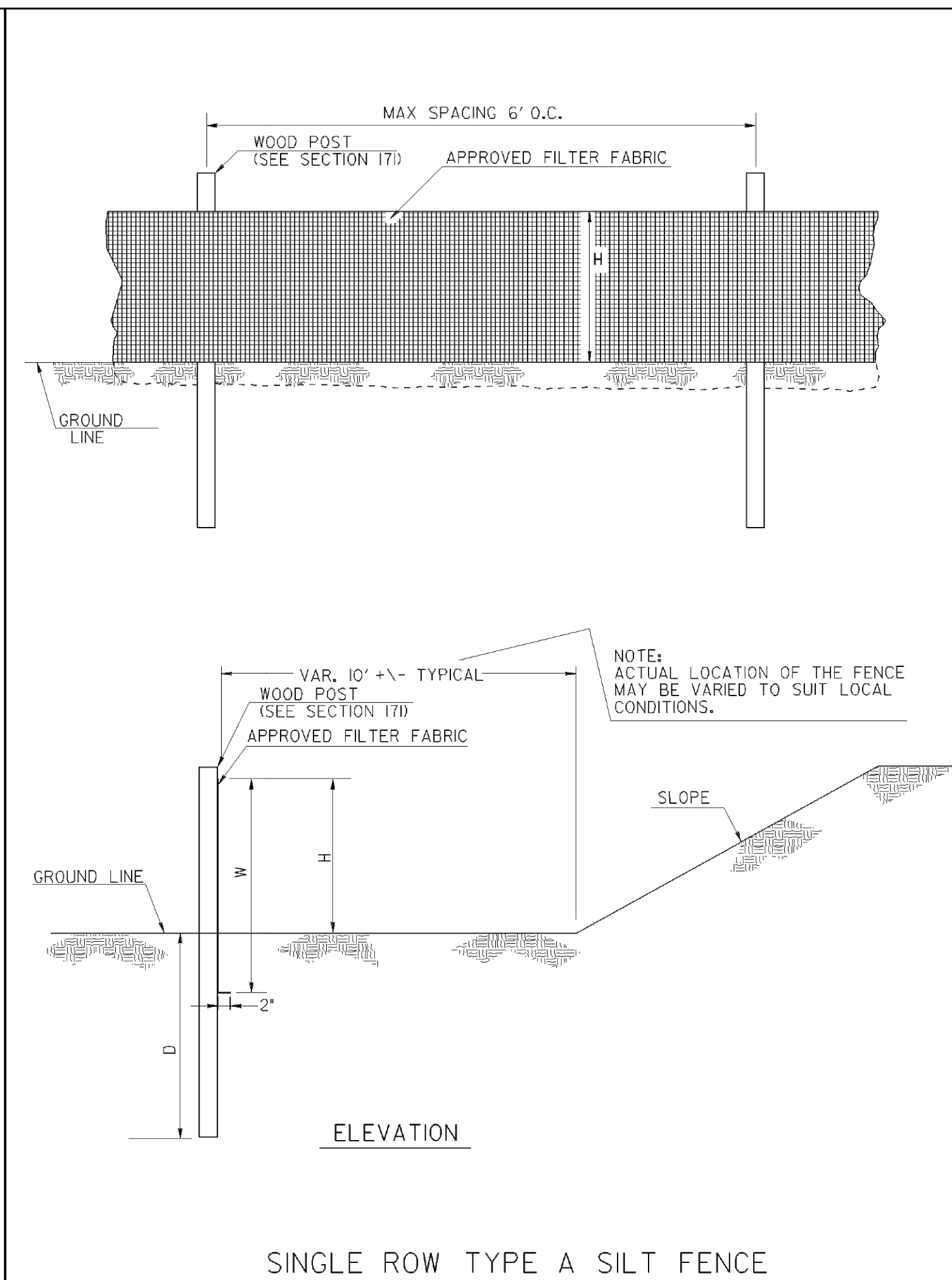
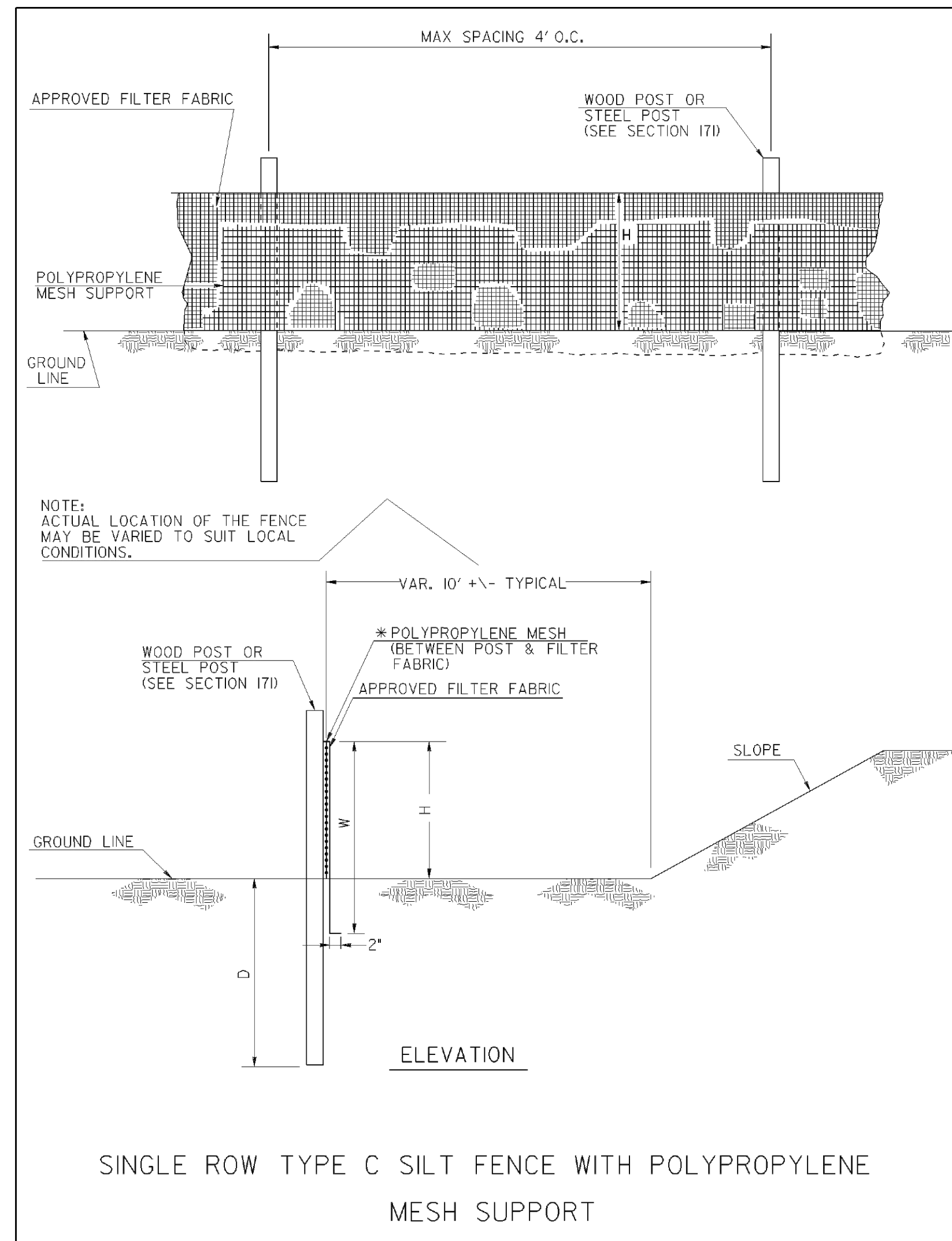


DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA			
CONSTRUCTION DETAILS			
SILT CONTROL GATES FOR STRUCTURES TYPE - 1, 2, AND 3			
NO SCALE		REV. & REDR. DEC., 2000	
NUMBER			D-20

REVISION DATES		EROSION CONTROL DETAILS	
		SENOIA ROAD STREETScape IMPROVEMENTS	
		TOWN OF TYRONE, GEORGIA	
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FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

NOTES:

1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 1/2 INCHES LONG AND A CROWN AT LEAST 3/4 INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG, WITH BUTTON HEADS AT LEAST 3/4 INCHES WIDE.
2. NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.
4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
7. SEE OPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

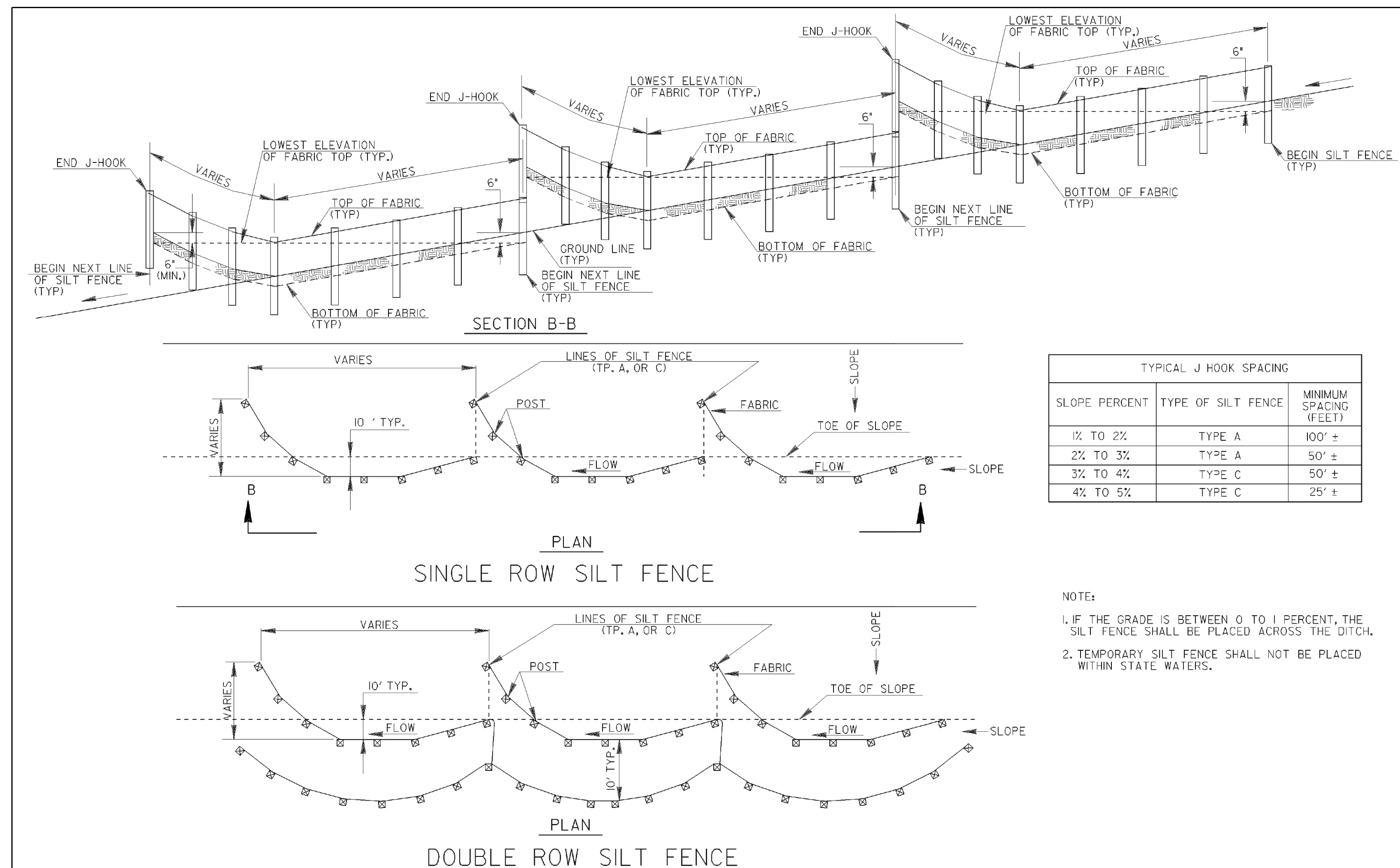
DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE	
BY		NO SCALE	REV. AND REDRAWN JAN. 2011
		NUMBER D-24A (SHEET 1 OF 4)	

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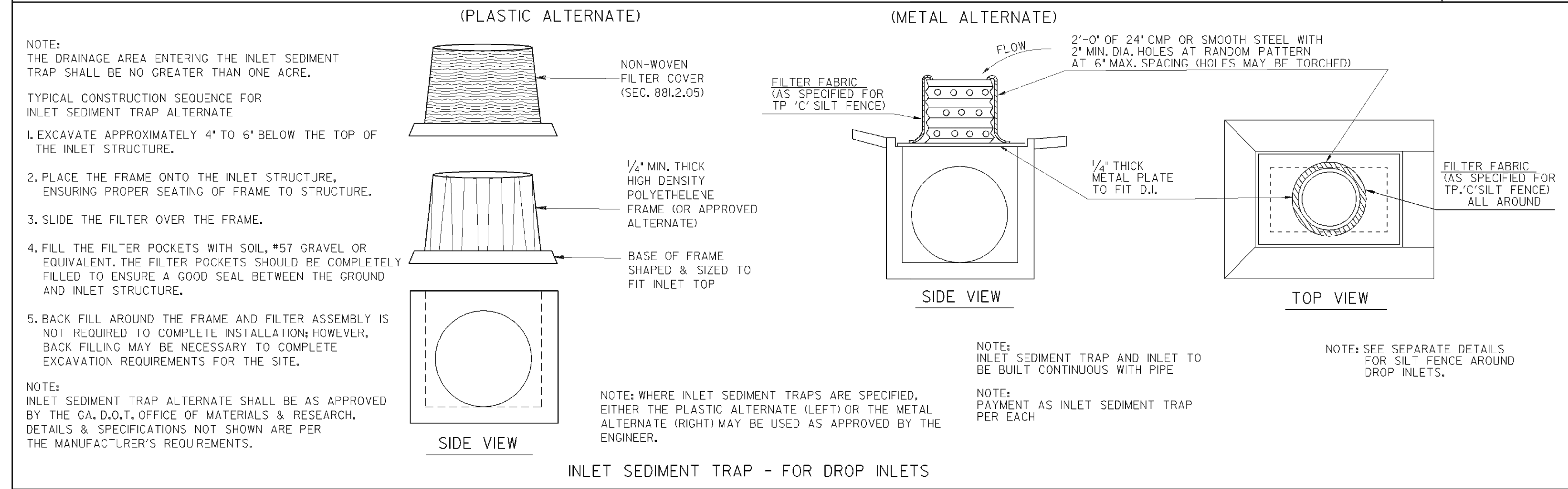
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		SENOIA ROAD STREETScape IMPROVEMENTS	
		TOWN OF TYRONE, GEORGIA	
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TYPICAL J HOOK SPACING		
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A	100' ±
2% TO 3%	TYPE A	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

NOTE:
1. IF THE GRADE IS BETWEEN 0 TO 1 PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.
2. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.



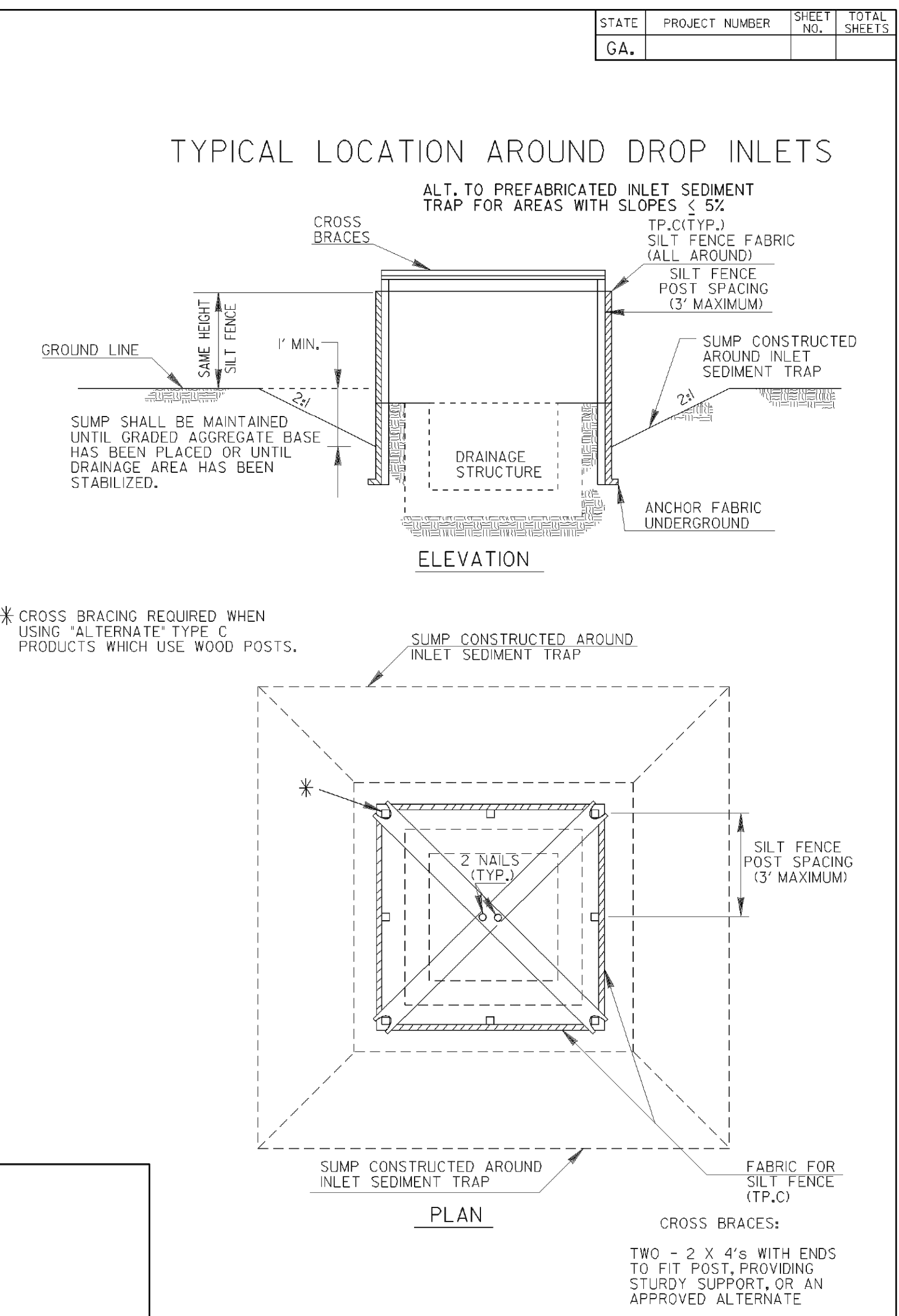
NOTE:
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE

- EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
- PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
- SLIDE THE FILTER OVER THE FRAME.
- FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
- BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

NOTE:
INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.

NOTE: WHERE INLET SEDIMENT TRAPS ARE SPECIFIED, EITHER THE PLASTIC ALTERNATE (LEFT) OR THE METAL ALTERNATE (RIGHT) MAY BE USED AS APPROVED BY THE ENGINEER.



* CROSS BRACING REQUIRED WHEN USING "ALTERNATE" TYPE C PRODUCTS WHICH USE WOOD POSTS.

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH.

NOTE:
SEE SEPARATE SHEET ENTITLED "TEMPORARY SILT FENCE DETAILS" FOR SILT FENCE ERECTION DETAILS.

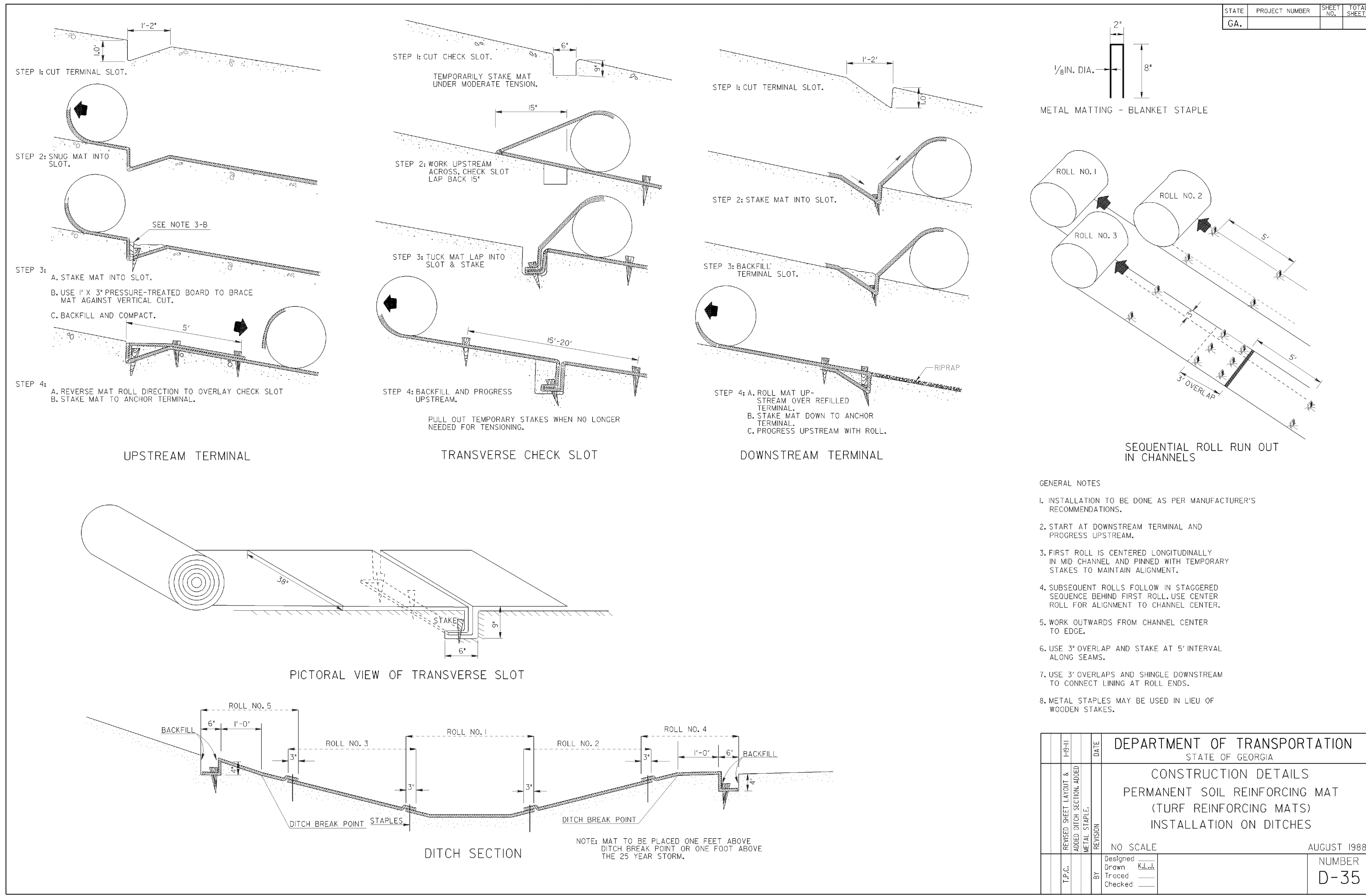
DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE J-HOOK, INLET SEDIMENT TRAPS	
BY		NO SCALE	JANUARY 2011
		NUMBER D-24C (SHEET 3 OF 4)	

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REVISION DATES		EROSION CONTROL DETAILS SENOIA ROAD STREETScape IMPROVEMENTS TOWN OF TYRONE, GEORGIA	
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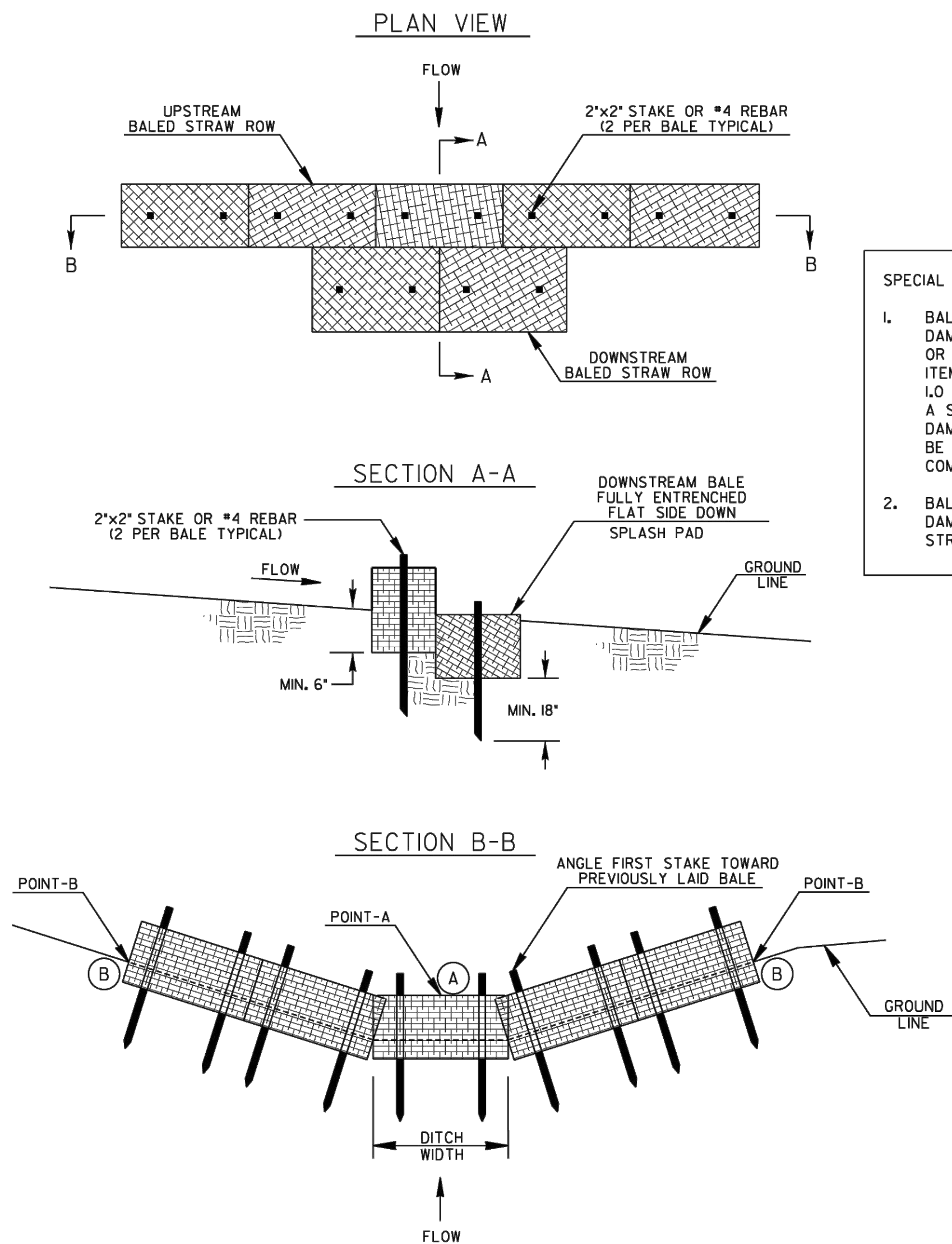
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REVISION DATES		EROSION CONTROL DETAILS	
		SENOIA ROAD STREETScape IMPROVEMENTS	
		TOWN OF TYRONE, GEORGIA	
CHECKED:	DATE:	DRAWING No.	
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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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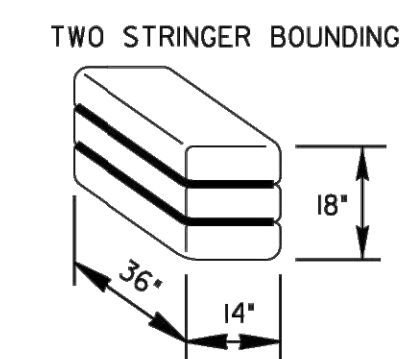
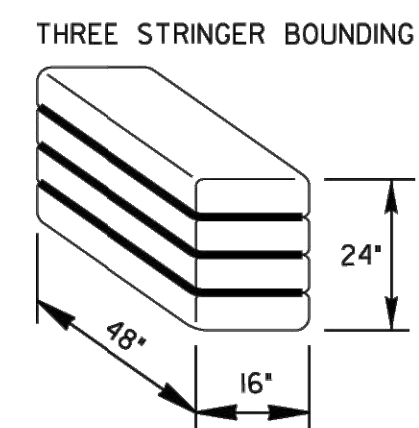
BALED STRAW CHECK DAM



SPECIAL NOTES:

1. BALED STRAW AND COMPOST FILTER SOCK CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0 CFS OR DRAINAGE AREAS UP TO 1.0 ACRE. IF THESE ITEMS ARE USED IN DRAINAGE AREAS GREATER THAN 1.0 ACRE, FLOWS GREATER THAN 2.0 CFS, OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM AT THE DOWNSTREAM DISCHARGE POINT SHALL BE USED IN CONJUNCTION WITH BALED STRAW OR COMPOST FILTER SOCK CHECK DAMS.
2. BALED STRAW AND COMPOST FILTER SOCK CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STREAMS OR IN A TIDAL AREA BELOW HIGH TIDE.

APPROXIMATE BALED STRAW DIMENSIONS
(SEE NOTE # 1)



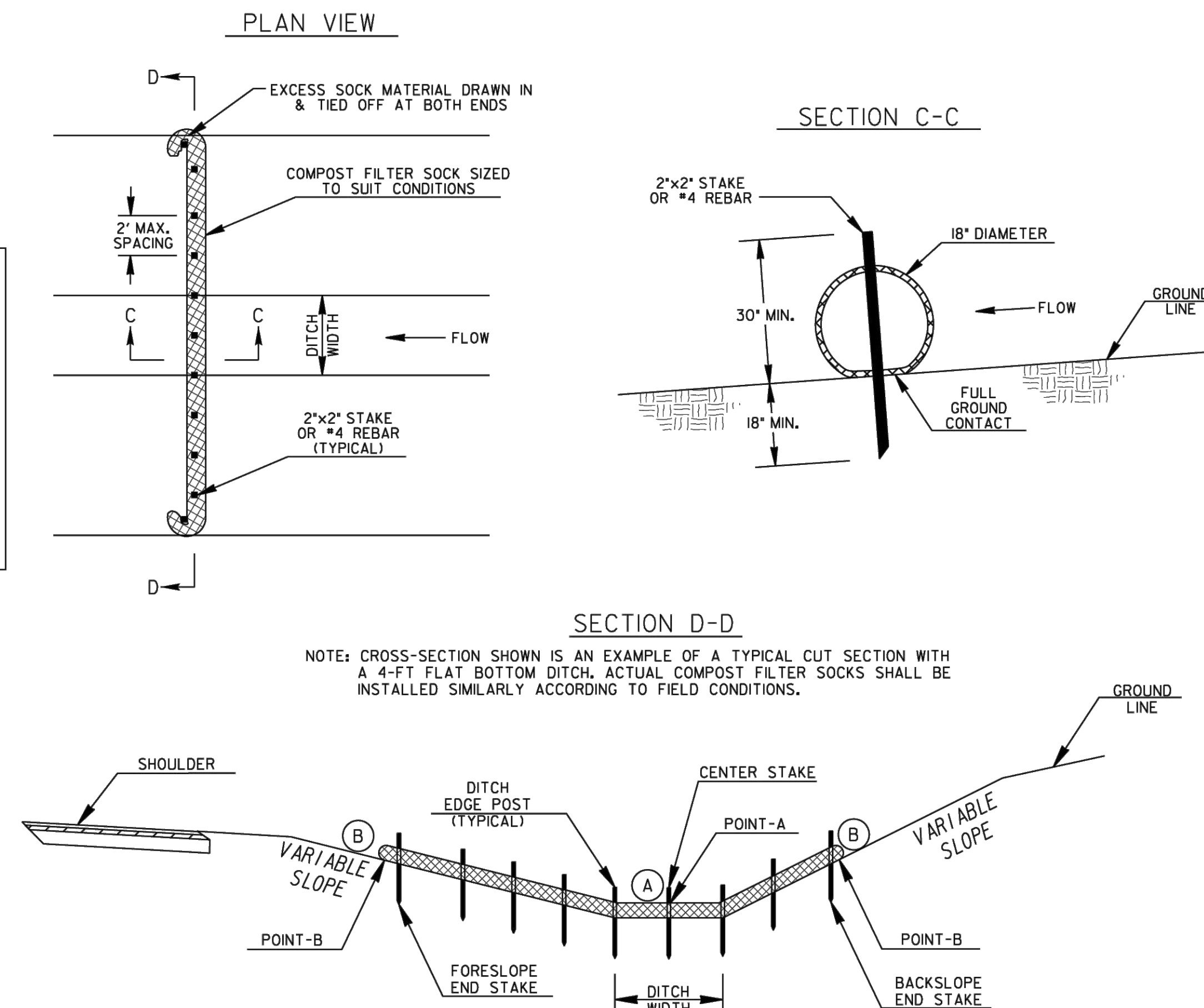
BALED STRAW CHECK DAM GENERAL NOTES:

1. BALED STRAW DIMENSIONS MAY VARY. ASSUME APPROXIMATE DIMENSIONS OF 14"Wx18"Hx36"L FOR A TWO STRINGER AND 16"Wx24"Hx48"L FOR A THREE STRINGER. BALES SHOULD BE BOUND WITH WIRE OR NYLON INSTEAD OF TWINE.
2. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE TOP OF THE UPSTREAM BALES IN THE CENTER OF CHANNEL SHOULD BE LEVEL AND SET AT THE SAME ELEVATION. THE DOWNSTREAM BALES SHOULD BE ENTRENCHED EVEN WITH THE CHANNEL BOTTOM.
3. THE GROUND LINE AT POINT-B SHALL ALWAYS BE AT MINIMUM OF 6 INCHES ABOVE POINT-A.
4. REMOVE SEDIMENT ONCE THE ACCUMULATED HEIGHT HAS REACHED HALF THE STORAGE HEIGHT.
5. INSTALLATION MAY BE ADJUSTED SLIGHTLY TO MEET FIELD CONDITIONS; HOWEVER, SPLASH PAD IS REQUIRED.

PAY ITEMS:

163-0529	CONSTRUCT & REMOVE TEMPORARY SEDIMENT BARRIER OR BALED STRAW CHECK DAM (LF)
165-0041	MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

COMPOST FILTER SOCK CHECK DAM



COMPOST FILTER SOCK CHECK DAM GENERAL NOTES:

1. THE CONTRACTOR MAY ELECT TO USE 18" DIAMETER COMPOST FILTER SOCK CHECK DAMS IN LIEU OF BALED STRAW CHECK DAMS. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE CONSTRUCTION, REMOVAL, OR MAINTENANCE OF COMPOST FILTER SOCK CHECK DAMS.
2. COMPOST FILTER MEDIA SHALL MEET THE SPECIFICATIONS IN THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'. THE CONTRACTOR SHALL PROVIDE VERIFICATIONS IF REQUESTED.
3. THE GROUND LINE AT POINT-B SHALL BE A MINIMUM OF 6 INCHES ABOVE POINT-A.
4. ENSURE COMPOST FILTER SOCK HAS FULL CONTACT WITH GROUND SURFACE. PLACE ONE STAKE AT THE CENTER OF CHANNEL, AT THE TOE OF FORESLOPE AND BACKSLOPE, AND AT THE ENDS OF DEVICE. STAKES SHALL HAVE A MAXIMUM SPACING OF 2 FEET.
5. REMOVE SEDIMENT ONCE THE ACCUMULATED HEIGHT HAS REACHED HALF THE STORAGE HEIGHT.

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS	
BY		BALED STRAW & COMPOST FILTER SOCK CHECK DAMS FOR EROSION CONTROL	
DESIGNED	DLE	NO SCALE	4-22-2016
DRAWN			NUMBER
TRACED			D-52
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REVISION DATES

EROSION CONTROL DETAILS

SENOIA ROAD STREETScape IMPROVEMENTS
TOWN OF TYRONE, GEORGIA

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	56-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

CONDITIONS

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored, and have a continuous 90% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed.

SPECIFICATIONS

MULCHING WITHOUT SEEDING

This standard applies to grades or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

Select one of the following materials and apply at the depth indicated:

1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.

2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Cutback asphalt (slow curing) shall be applied at 1200 gallons per acre (or 1/4 gallon per sq.yd.)
4. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and reused.

Applying Mulch

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Cutback asphalt shall be applied uniformly. Care should be taken in areas of pedestrian traffic due to problems of tracking in* or damage to shoes, clothing, etc.
4. Apply polyethylene film on exposed areas.

Anchoring Mulch

1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application. Straw or hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AE-5 or SS-1). The asphalt emulsion shall be sprayed onto the mulch as it is ejected from the machine. Use 100 gallons of emulsified asphalt and 100 gallons of water per ton of mulch. Tackifiers and binders can be substituted for emulsified asphalt. Please refer to specification Tb -Tackifiers and Binders. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.
2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

Ds1 **DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)**

DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

CONDITIONS

Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
Rye	3.9 pounds	3 bu.	9/1-3/1
Ryegrass	0.9 pound	40 lbs.	8/15-4/1
Annual Lespedeza	0.9 pound	40 lbs.	1/15-3/15
Weeping Lovegrass	0.1 pound	4 lbs.	2/15-6/15
Sudangrass	1.4 pounds	60 lbs.	3/1-8/1
Browntop Millet	0.9 pound	40 lbs.	4/1-7/15
Wheat	4.1 pounds	3 bu.	9/15-2/1

* Unusual site conditions may require heavier seeding rates
** Seeding dates may need to be altered to fit temperature variations and conditions.

Ds2 **DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)**

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or handseeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate of one ton per acre. Graded areas require lime application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (12-16 lbs./1,000 sq. ft.) shall be applied. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.

Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand.

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch. Mulch without seeding should be considered for short term protection. Refer to Ds1 - Disturbed Area Stabilization (With Mulching Only).

Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

DEFINITION

A permanent vegetation using sods on highly erodible or critically eroded lands.

CONDITIONS

This application is appropriate for areas which require immediate vegetative covers, drop inlets, grass swales, and waterways with intermittent flow.

CONSTRUCTION SPECIFICATIONS INSTALLATION

Soil Preparation

- Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.
- Topsoil properly applied will help guarantee stand. Don't use topsoil recently treated with herbicides or soil sterilants.
- Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1. For fall planting of warm season species, half the fertilizer should be applied at planting and the other half in the spring.

Table 6-6.1. Fertilizer Requirements for Soil Surface Application

Fertilizer Type (lbs./acre)	Fertilizer Rate (lbs./acre)	Fertilizer Rate	Season
10-10-10	1000	.025	Fall

- Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Installation

- Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod.
- On slopes steeper than 3:1, sod should be anchored with wooden or biodegradable pins or other approved methods.
- Installed sod should be rolled or tamped to provide good contact between sod and soil.
- Irrigate sod and soil to a depth of 4" immediately after installation.
- Sod should not be cut or spread in extremely wet or dry weather.
- Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

Ds4 **DISTURBED AREA STABILIZATION (WITH SODDING)**

MATERIALS

- Sod selected should be certified. Sod grown in the general area of the project is desirable.
- Sod should be machine cut and contain 3/4" ± 1/4" of soil, not including shoots or thatch.
- Sod should be cut to the desired size within ±5%. Torn or uneven pads should be rejected.
- Sod should be cut and installed within 36 hours of digging.
- Avoid planting when subject to frost heave or hot weather if irrigation is not available.
- The sod type should be shown on the plans or installed according to Table 6-6.2. See Figure 6-4.1 for your Resource Area.

Table 6-6.2. Sod Planting Requirements

Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L,P,C P,C P,C	Warm Weather
Bahiagrass	Pensacola	P,C	Warm Weather
Centipede	-	P,C	Warm Weather
St. Augustine	Common Bitterblue Raleigh	C	Warm Weather
Zoysia	Emerald Myer	P,C	Warm Weather
Tall Fescue	Kentucky	M-L,P	Cool Weather

MAINTENANCE

- Re-sod areas where an adequate stand of sod is not obtained.
- New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified.
- Apply one ton of agricultural lime as indicated by soil test or every 4-6 years.
- Fertilize grasses in accordance with soil tests or Table 6-6.3.

Table 6-6.3. Fertilizer Requirements for Sod

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
Cool Season Grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	-
	Maintenance	10-10-10	400	30
Warm Season Grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30



REVISION DATES		EROSION CONTROL DETAILS	
		SENOIA ROAD STREETScape IMPROVEMENTS	
		TOWN OF TYRONE, GEORGIA	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	56-0006	
CORRECTED:	DATE:		
VERIFIED:	DATE:		