

MITCHELL BRIDGE ROAD SHARED USE PATH

FOR
ATHENS-CLARKE COUNTY
TRANSPORTATION & PUBLIC WORKS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		1	88

LOCATION MAP

N.T.S.

EXISTING FEATURES

BEGIN PROJECT
 STA 100+00
 N: 1439724.8226
 E: 2517340.6524

RIVER RIDGE DRIVE

PRIVATE ROAD

MIDDLE OCONEE RIVER

HUNNICUTT CREEK

100+00 105+00 110+00 115+00 119+60

MITCHELL BRIDGE ROAD

ATHENS PERIMETER

END PROJECT
 STA 119+60
 N: 1441159.0499
 E: 2518663.5269

PROPOSED FEATURES

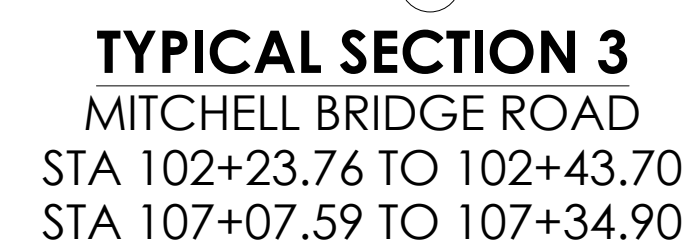
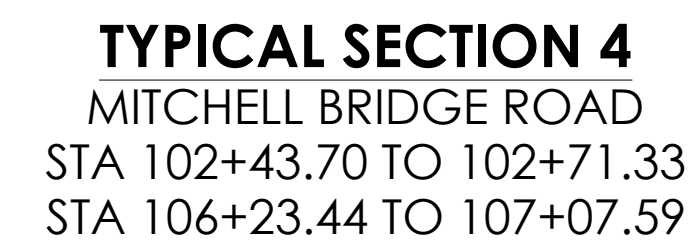
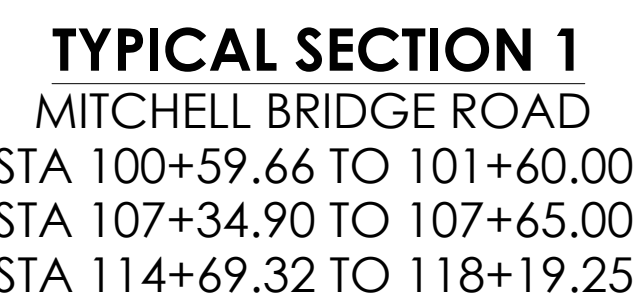
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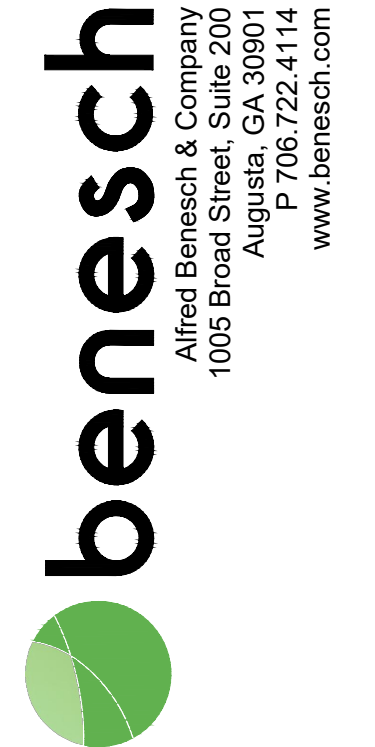
NOTE:
PROJECT TO BE CONSTRUCTED AS PER GEORGIA
DOT STANDARD SPECIFICATIONS, 2021 EDITION
AND 2016 STANDARD SUPPLEMENTAL
SPECIFICATIONS, AS APPROVED BY THE FEDERAL
HIGHWAY ADMINISTRATION AND AS MODIFIED BY
CONTRACT DOCUMENTS.

OWNER
24 HR. CONTACT
ATHENS-CLARKE COUNTY
DEREK DOSTER
301 COLLEGE AVE., SUITE 101
ATHENS, GA. 30603
706-613-3025

[illegible]



- (A) EXISTING ASPHALT ROADWAY
- (B) NEW CONCRETE PATH, 4 IN THICK
- (C) NEW RETAINING WALL, GDOT DETAIL 4949D
- (D) EXISTING BRIDGE BARRIER
- (E) K WALL BARRIER, METHOD 2, DETAIL ON SHEET 40-002
- (F) EXISTING BRIDGE
- (G) GRADED AGGREGATE BASE, 6 IN THICK
- (H) WOVEN WIRE MESH, 6 IN X 6 IN X 10 IN
- (I) NEW GALVANIZED STEEL HANDRAIL, GDOT
DETAIL 9031R, PAINTED BLACK
- (J) CONCOURSE BEAUTY STRIP, 4 IN THICK, SHADOW
BOX JOINTING PER ACC DETAIL 1-060, COLORED
RED
- (K) NEW CONC. CURB AND GUTTER, 6 IN X 24 IN,
TYPE 2, GDOT DETAIL 9032B
- (L) DECORATIVE FENCING, DETAIL ON SHEET 40-001
- (M) CLASS B CONCRETE WIDENING

[illegible]

ATHENS-CLARKE
COUNTY, GA

2
SHEET TITLE:
TYPICAL SECTIONS

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION
JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
AUGUST RELEASE DATE: AUGUST 16, 2023

Sheet:
05-001



- ### REQUIRED PAVEMENT LEGEND
- | | |
|---|---|
| A | EXISTING ASPHALT ROADWAY |
| B | NEW CONCRETE PATH, 4 IN THICK |
| C | NEW RETAINING WALL, GDOT DETAIL 4949D |
| D | EXISTING BRIDGE BARRIER |
| E | KWALL BARRIER, METHOD 2, DETAIL ON SHEET 40-002 |
| F | EXISTING BRIDGE |
| G | GRADED AGGREGATE BASE, 6 IN THICK |
| H | WOVEN WIRE MESH, 6 IN X 6 IN X 10 IN |
| I | NEW GALVANIZED STEEL HANDRAIL, GDOT
DETAIL 9031R, PAINTED BLACK |
| J | CONCOURSE BEAUTY STRIP, 4 IN THICK, SHADOW
BOX JOINTING PER ACC DETAIL 1-060, COLORED
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| K | NEW CONC. CURB AND GUTTER, 6 IN X 24 IN,
TYPE 2, GDOT DETAIL 9032B |
| L | DECORATIVE FENCING, DETAIL ON SHEET 40-001 |
| M | CLASS B CONCRETE WIDENING |

[illegible]

**ATHENS-CLARKE
COUNTY, GA**

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05-002

CONSTRUCTION ITEMS		
ITEMS	UNIT	QTY
EXCAVATION - ROCK	CY	30
BORROW EXCAVATION, INCL MATL	CY	50
FOUNDATION BACKFILL MATL, TP II	CY	55
GR AGGR BASE CRS, 6 INCH, INCL MATL	SY	660
AGGR SURF CRS	TN	40
RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II BLEND 1, INCL BITUM MATL AND H LIME	TN	45
BITUM TACK COAT	GL	30
CONC SIDEWALK, 4 IN W/ WOVEN WIRE MESH	SY	1700
CONC SIDEWALK, 6 IN (OVERLOOK AREA)	SY	25
CONC SIDEWALK, 8 IN (FOR ADA RAMP)	SY	75
CONCRETE CURB & GUTTER, 6 IN X 30 IN, TP 2	LF	840
CLASS A CONCRETE, TYPE P2, RETAINING WALL	LF	275
CLASS B CONC, BASE OR PVMT WIDENING	CY	40
GLAV STEEL PIPE HANDRAIL, 2 IN, ROUND	LF	1020
REM GUARDRAIL	LF	270
GUARDRAIL, TP W	LF	30
GUARDRAIL ANCHORAGE, TP 1	EA	3
DECORATIVE FENCING	LF	460
DETECTABLE WARNING SURFACE	SF	115
CONCRETE K WALL BARRIER	LF	520
PAINT EXISTING BRIDGE BARRIERS	LF	1130
TRASH AND RECYCLING RECEPTALS	EA	2
PET WASTE STATION INCLUDING WOODEN POST	EA	2
PARK BENCH	EA	2
RUBBLE GRANITE ENTRANCE WALL	EA	1

STORM DRAIN QUANTITIES							
STRUCTURE NUMBER			PROFILE SHEET NUMBER	PIPES	STRUCTURES		
				18 IN, CLASS III, RCP	18" FLARED END SECTION, GDOT DETAIL 1120	DROP INLET, GROUP 1, GDOT DETAIL 1019A	CATCH BASIN, GROUP 1, GDOT DETAIL 1033D
	STATION	OFFSET		LF	EA	EA	EA
A1	107+03.56	29.62' LT	22-001	35	1		
A2	107+39.45	15.92' RT	22-001	37		1	
A3	107+67.28	6.12' RT	22-001				1
TOTAL				72	1	1	1

SIGNING AND MARKING ITEMS		
ITEMS	UNIT	QTY
SKIP, TRAFFIC STIPE, 5 IN, YELLOW	GLF	2060
THERMOPLASTIC SOLID TRAF STRIPE, 5 IN WHITE	LF	2575
THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	1980
THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	50
THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	680
THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	LF	70
RAISED PVMT MARKERS	EA	55
REMOVE EXIST SOLID TRAF STRIPE, 5 IN, THERMOPLASTIC	LF	4675

STANDARD SIGN QUANTITIES																
STATION	OFFSET	CODE	SIGNS						POSTS						REMOVE SIGN	RESET SIGN
			TYPE 1 MATL, REFL SHEETING, TYPE 9			TYPE 1 MATL, REFL SHEETING, TYPE 11			GALV STEEL POST, TYPE 8			WOODEN POSTS				
			SIZE (IN)	QUANTITY	SQUARE FEET	SIZE (IN)	QUANTITY	SQUARE FEET	LENGTH (FT)	QUANTITY	TOTAL LENGTH	LENGTH (FT)	QUANTITY	TOTAL LENGTH	QUANTITY	QUANTITY
100+31.27	10.99' LT	R1-1	36X36	1	9				13	1	13					
107+29.81	6.22' LT	W7-5				18X18	1	2.25				6.25	1	6.25		
108+19.00	84.60' LT	W7-5				18X18	1	2.25				6.25	1	6.25		
114+18.41	11.02' LT	N/A													1	
114+71.79	10.43' LT	N/A													1	
115+67.91	10.40' LT	R1-1	36X36	1	9				13	1	13					
TOTAL				2	18		2	4.5		2	26		2	12.5	2	1

TEMPORARY GRASSING AND EROSION QUANTITIES										
TEMPORARY GRASSING	MULCH	TEMPORARY SILT FENCE, TP C	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	CONSTRUCT AND REMOVE INLET SEDIMENT TRAPS	MAINTENANCE OF INLET SEDIMENT TRAPS	CONSTRUCTION EXIT	MAINTENANCE OF CONSTRUCTION EXIT	BARRIER FENCE (ORANGE), 4 FT - TREE PROTECTION	WATER QUALITY MONITORING AND SAMPLING	WATER QUALITY INSPECTIONS
AC	TN	LF	LF	EA	EA	EA	EA	LF	EA	MO
1.30	50	2250	2250	2	2	2	2	1100	2	18

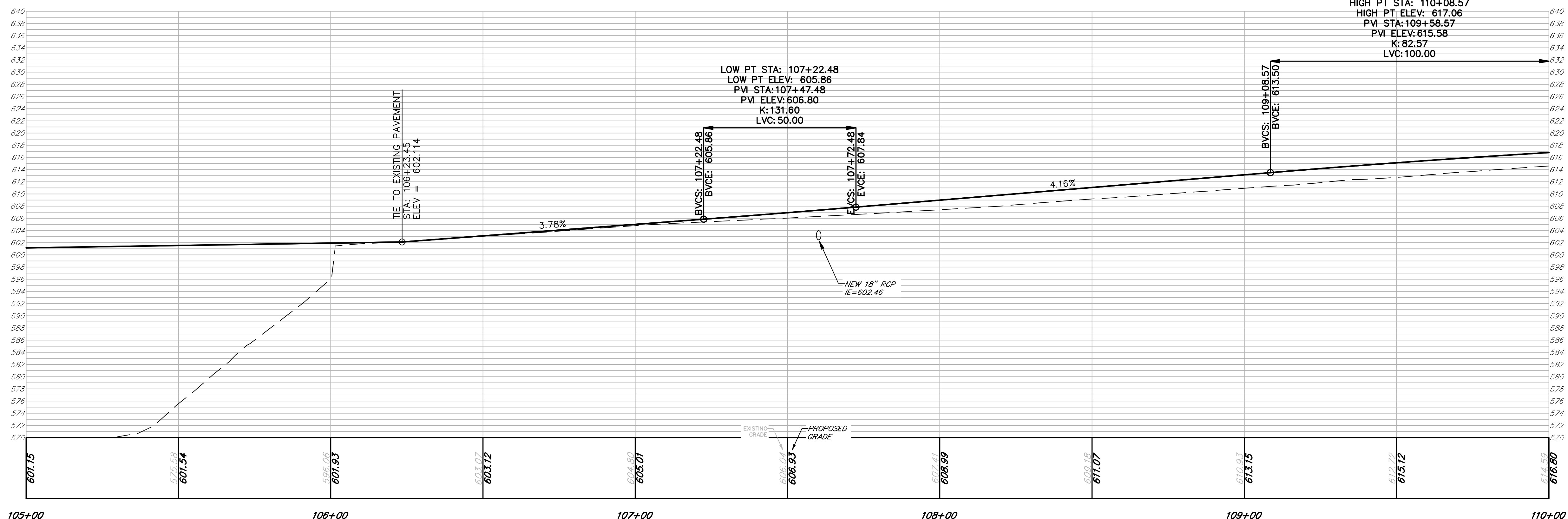
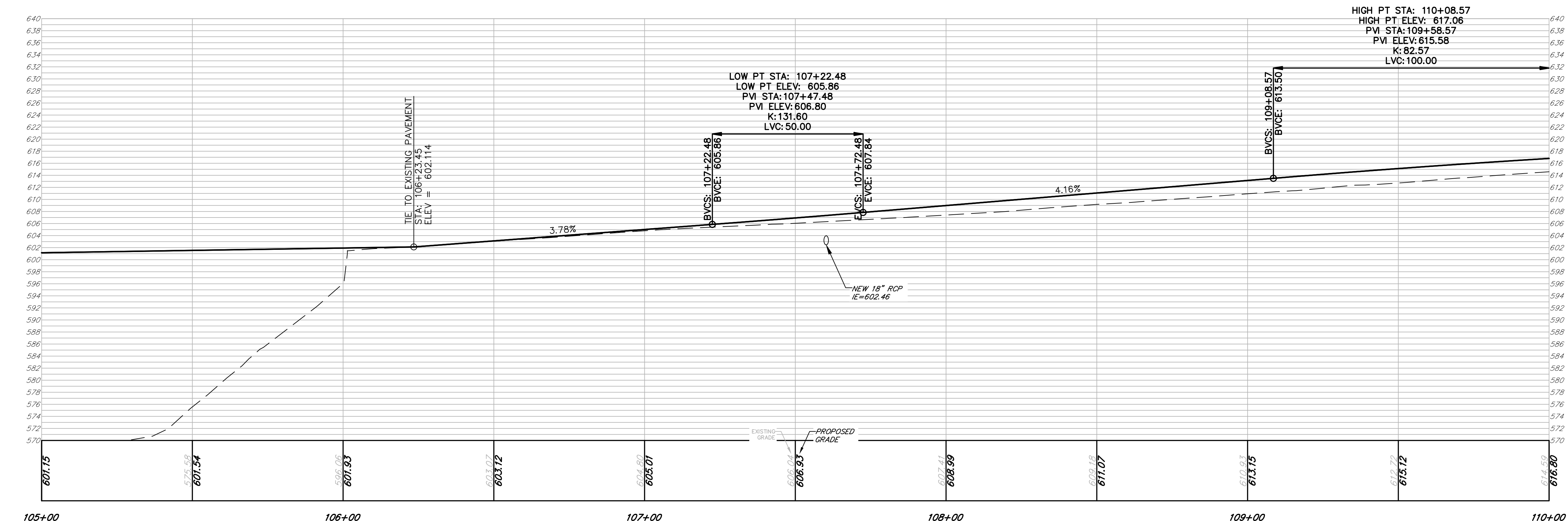
PERMANENT GRASSING AND EROSION QUANTITIES			
GRASSING INCLUDING FERTILIZER AND LIME	PERMANENT SOIL REINFORCEMENT MAT	STD DUMPED RIP RAP, TP 3, 18 IN	PLASTIC FILTER FABRIC
SY	SY	SY	SY
6300	100	10	10

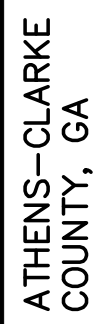
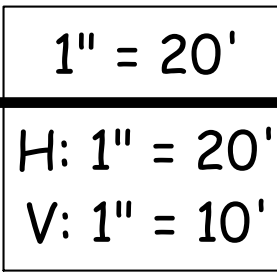
TRAFFIC CONTROL	LUMP SUM
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CLEARING AND GRUBBING	LUMP SUM
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GRADING COMPLETE	LUMP SUM
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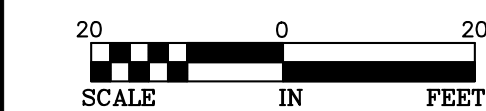
<div><div>ATHENS—CLARKE COUNTY, GA</div><div>SUMMARY OF QUANTITIES</div></div>		<div><div>PROJECT NAME</div><div>MITCHELL BRIDGE ROAD SHARED USE PATH</div></div>		<div><div>PROJECT INFORMATION</div><div>JOB NO: 19023003</div><div>DRAWN BY: KC</div><div>CHECKED BY: VC</div><div>DRAWING FILE: 19023003E.DWG</div><div>DRAWING SCALE: N.T.S.</div><div>ORIGINAL RELEASE DATE: AUGUST 16, 2023</div></div>		<div>Sheet:</div> <div>06-001</div>	
SHEET TITLE:		PROJECT NAME		PROJECT INFORMATION		Sheet:	
SUMMARY OF QUANTITIES		MITCHELL BRIDGE ROAD SHARED USE PATH		JOB NO: 19023003 DRAWN BY: KC CHECKED BY: VC DRAWING FILE: 19023003E.DWG DRAWING SCALE: N.T.S. ORIGINAL RELEASE DATE: AUGUST 16, 2023		06-001	

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HEET TITLE: CONSTRUCTION PLAN AND PROFILE

PROJECT NAME
**MITCHELL BRIDGE
ROAD SHARED USE
PATH**

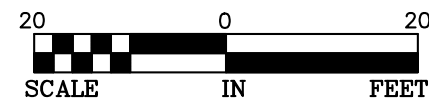
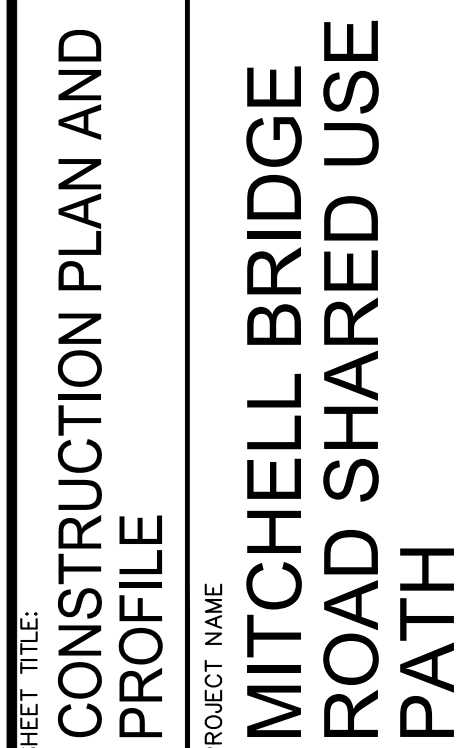
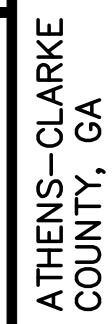
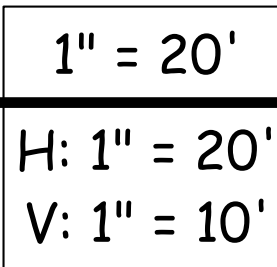


PROJECT INFORMATION	
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Sheet:
13-003

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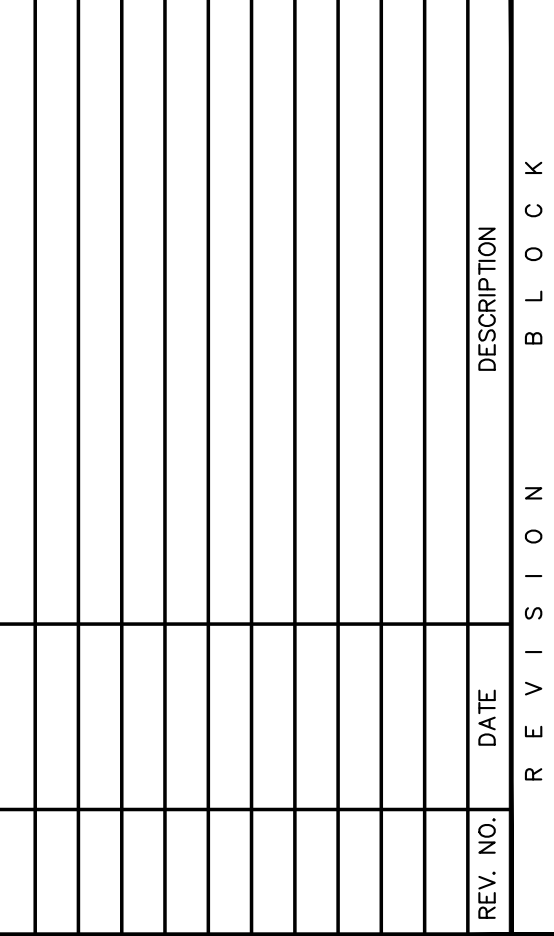
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13-004



benesch
Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
P 706.722.4114
www.benesch.com



SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=10'



ATHENS-CLARKE
COUNTY, GA

SHEET TITLE:
BEN BURTON PARK TRAILHEAD
PROFILE

MITCHELL BRIDGE ROAD SHARED USE PATH



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Sheet:
16-001



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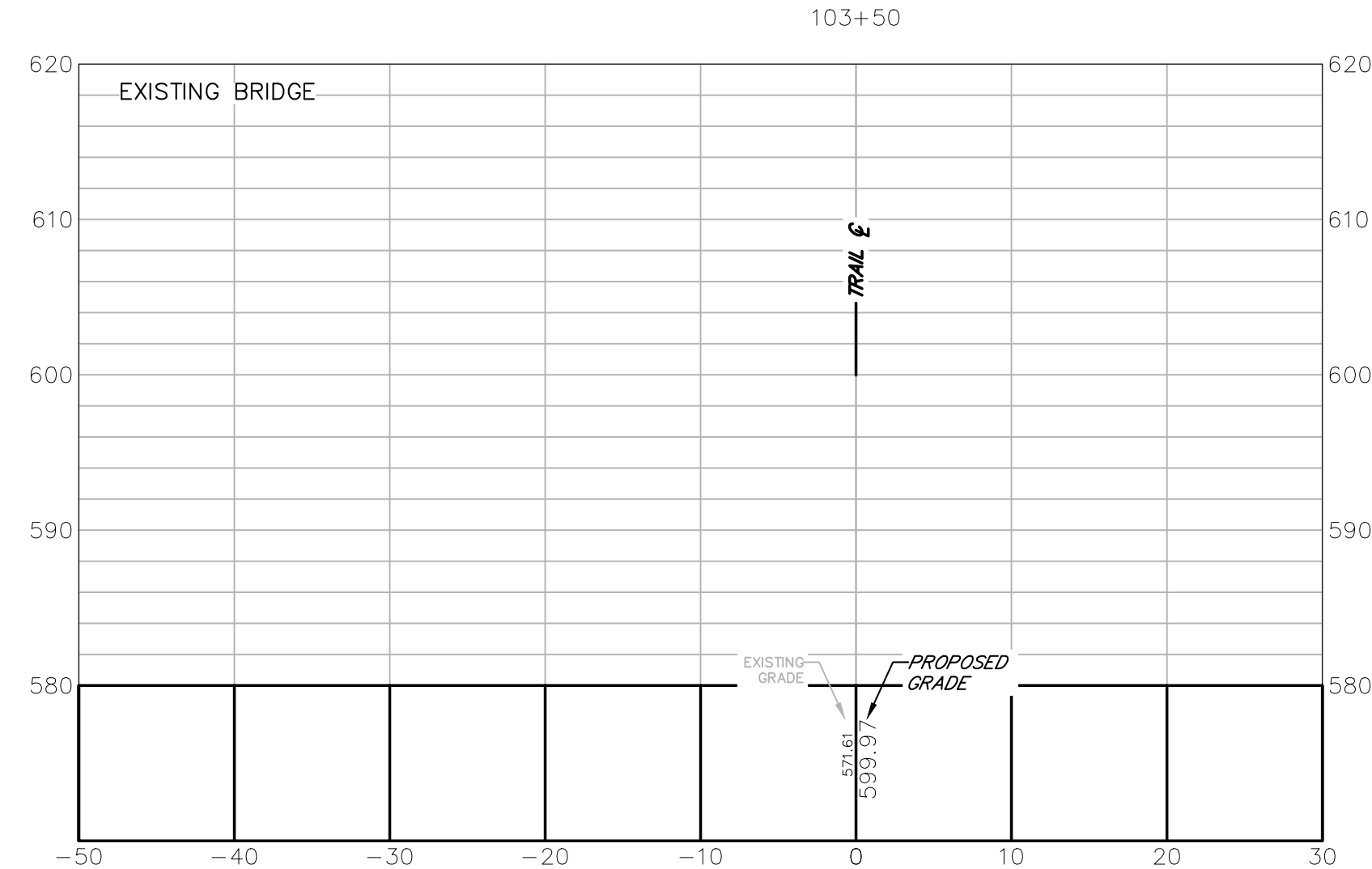
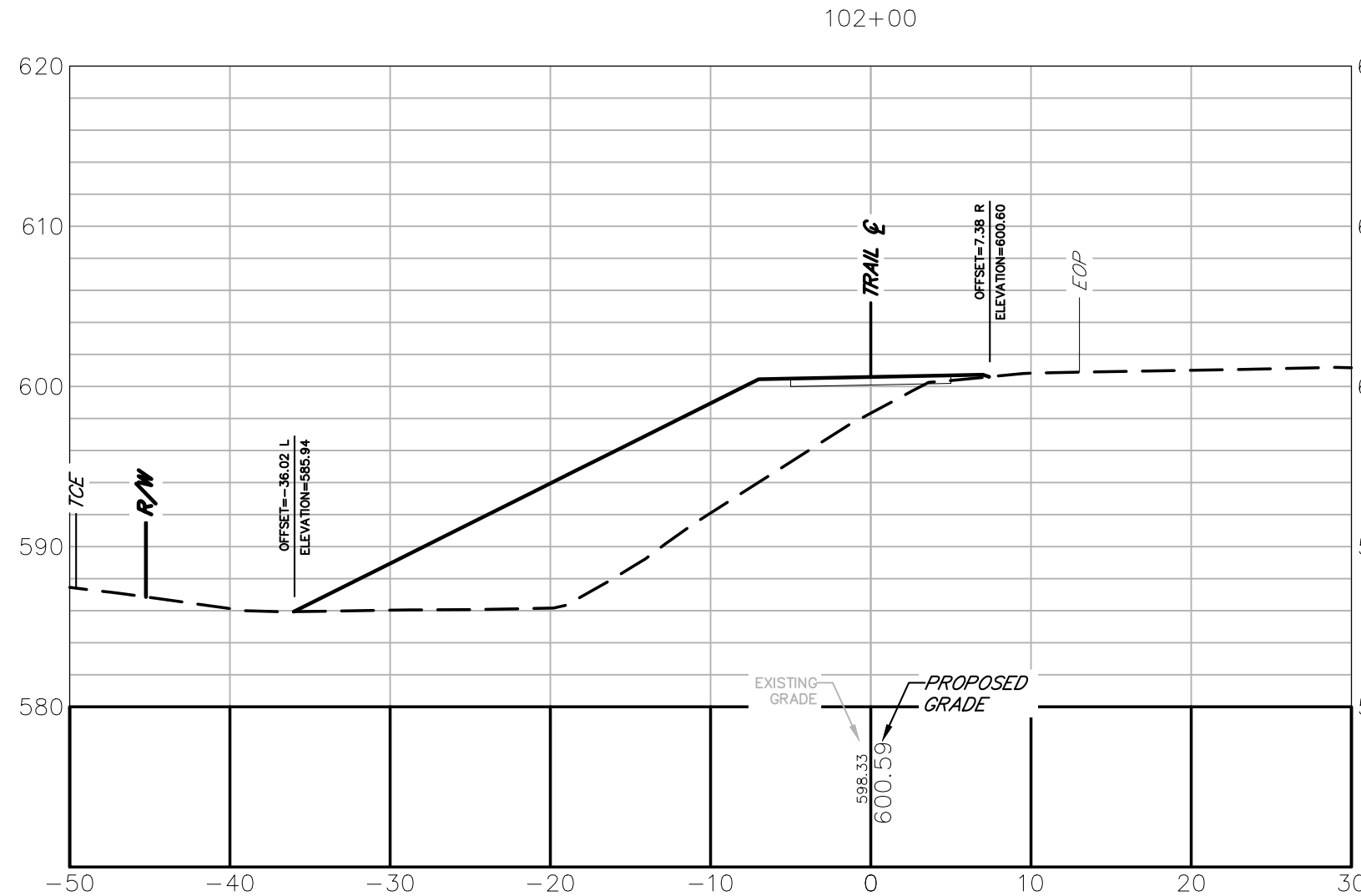
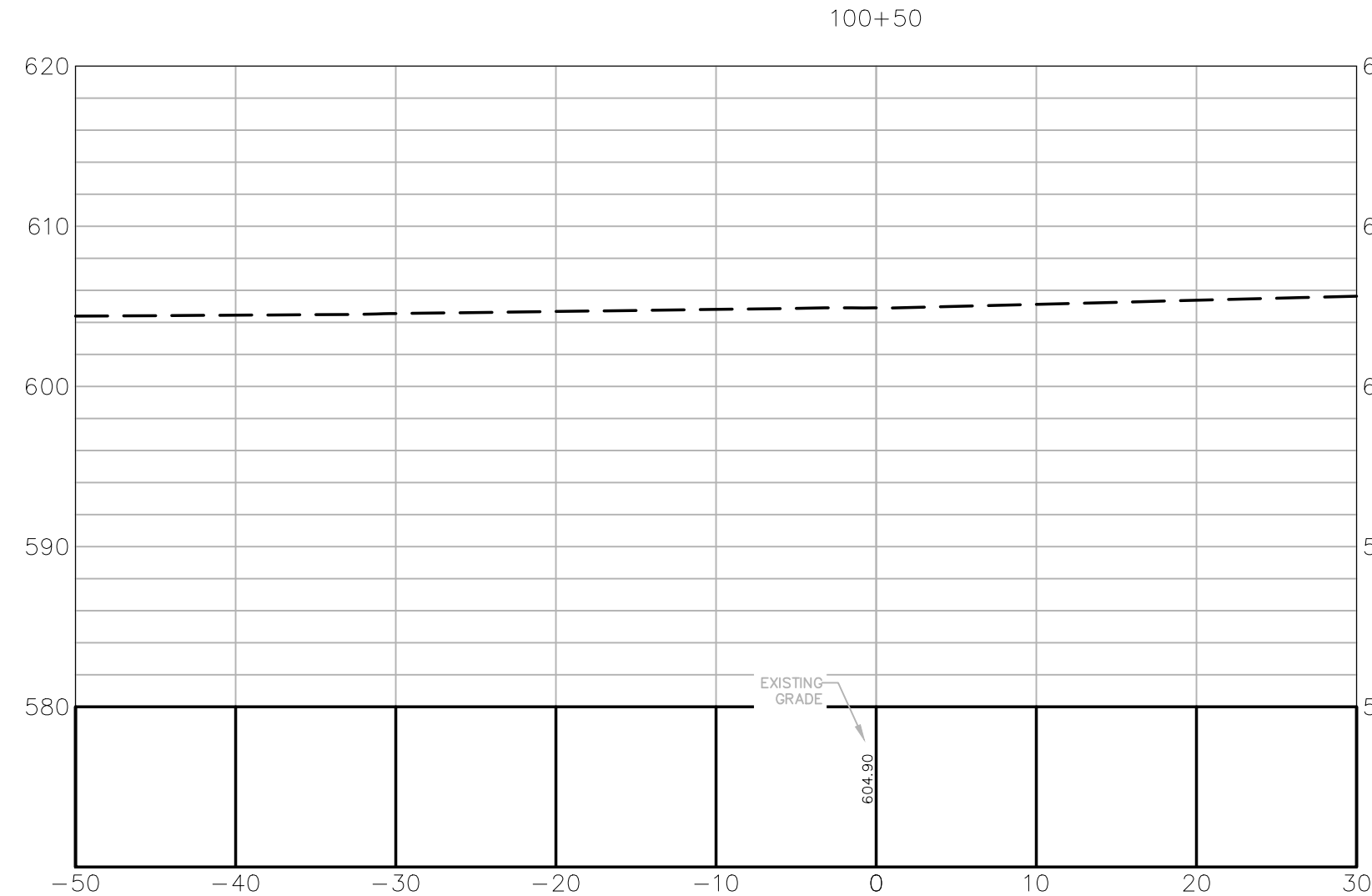
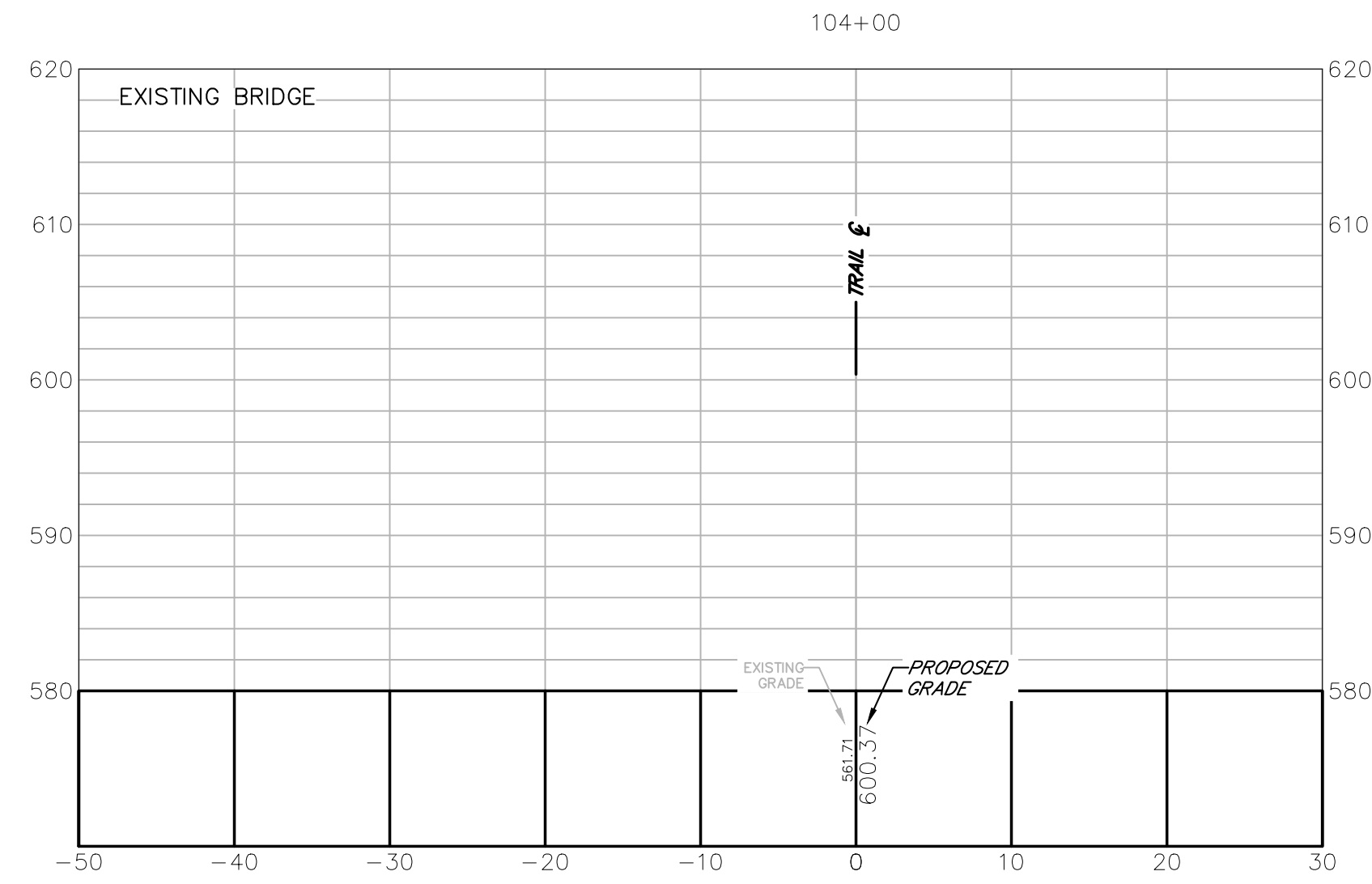
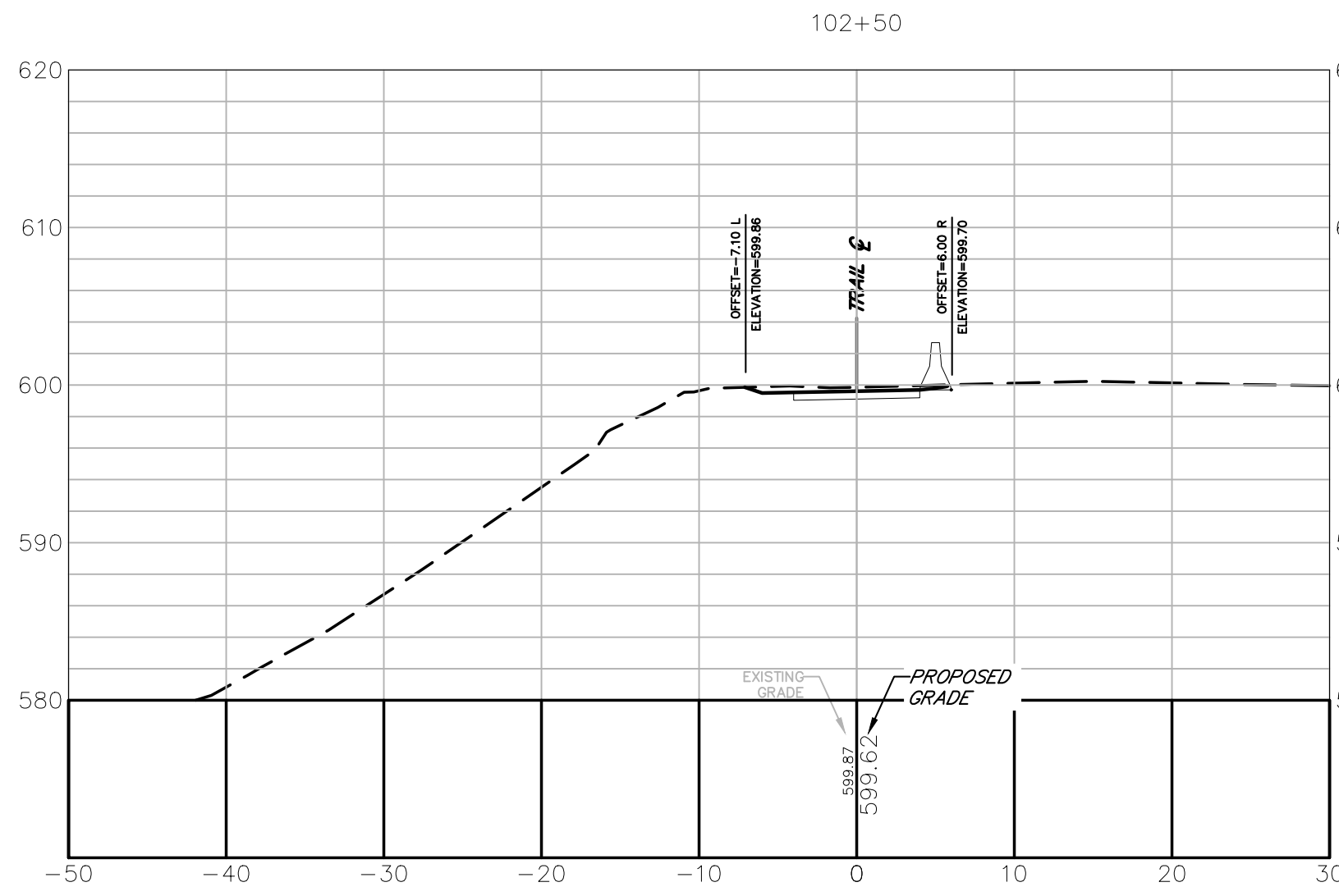
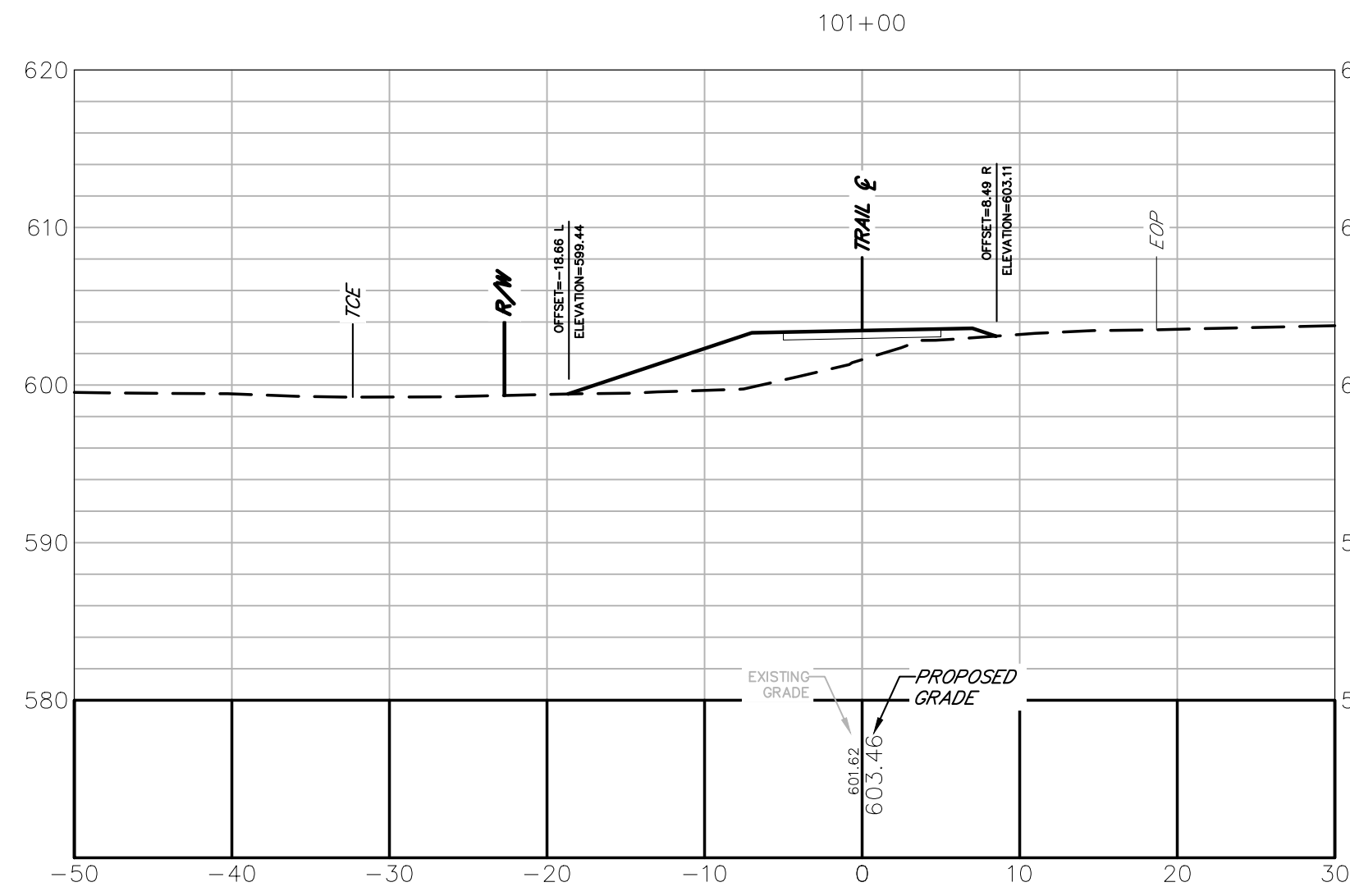
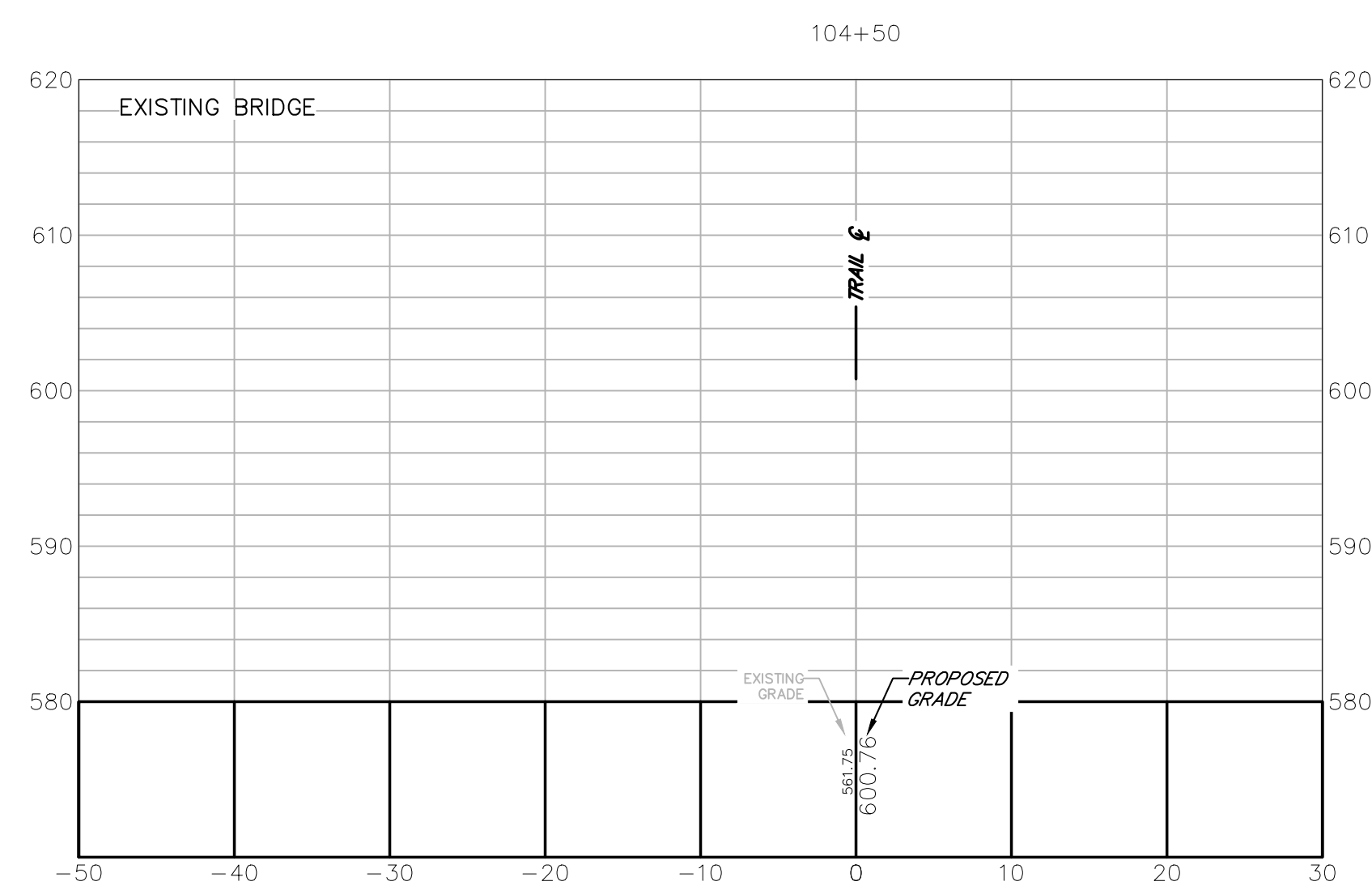
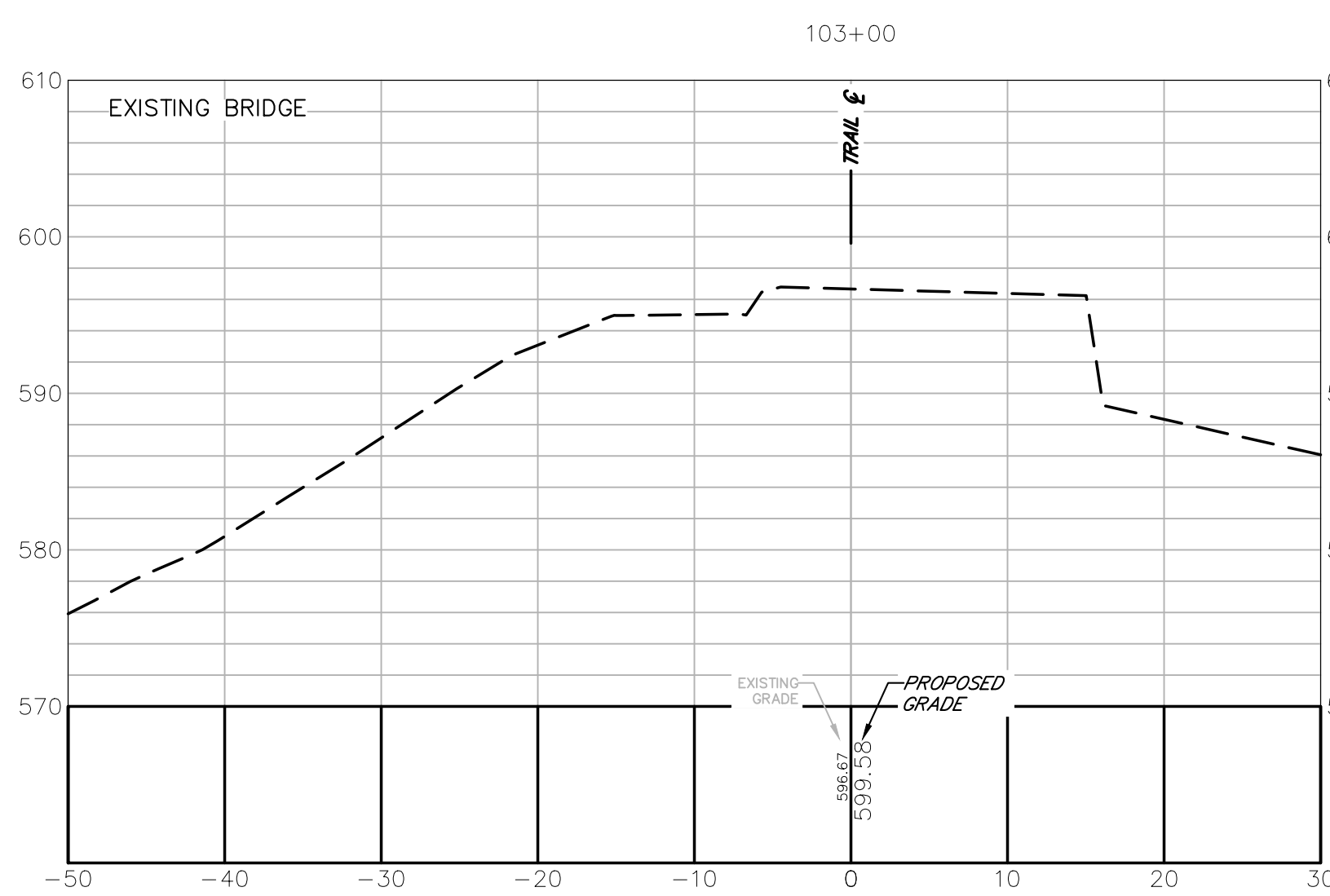
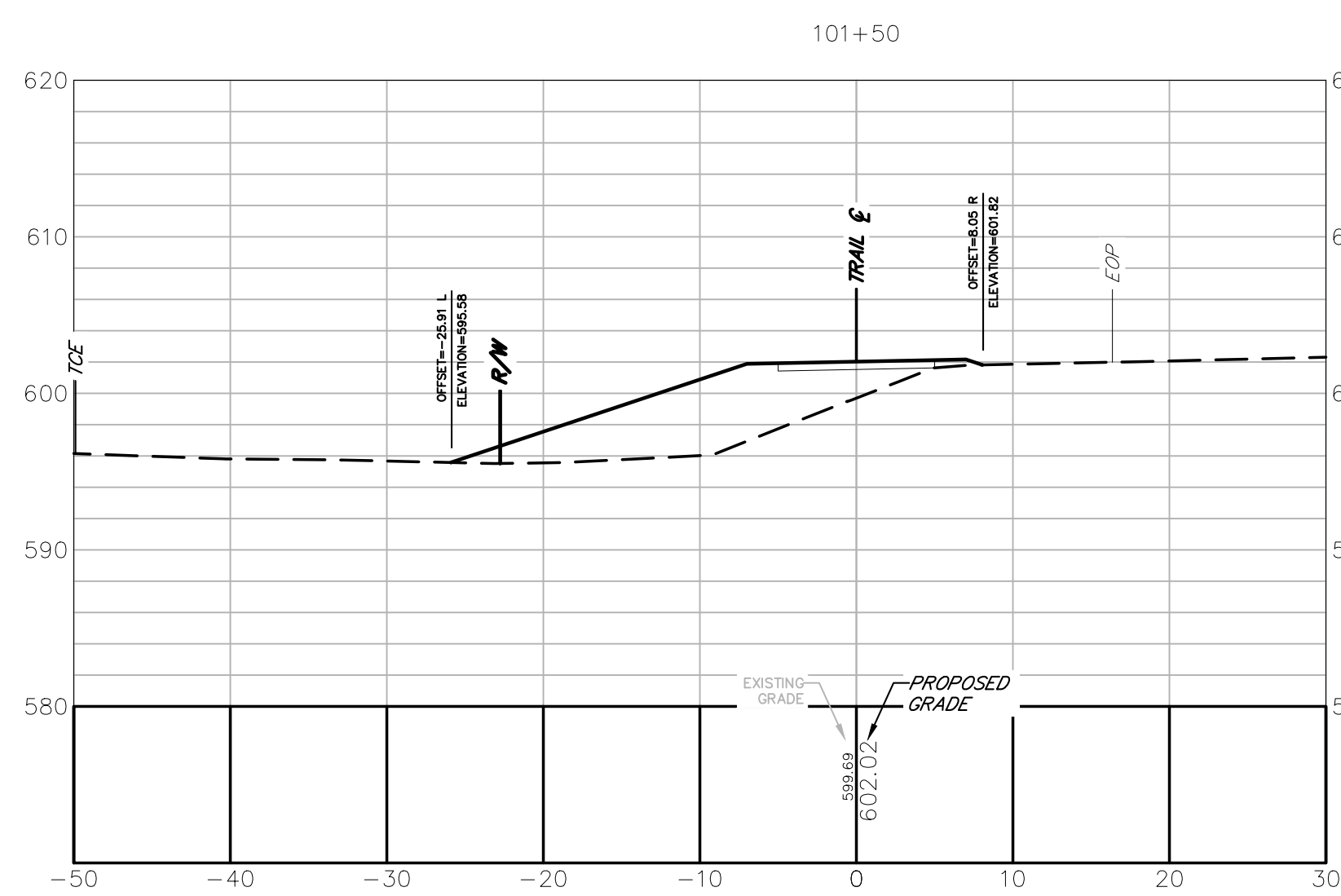
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Sheet:
22-001



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[illegible]

ATHENS-CLARKE
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SHEET TITLE:
CROSS SECTIONS

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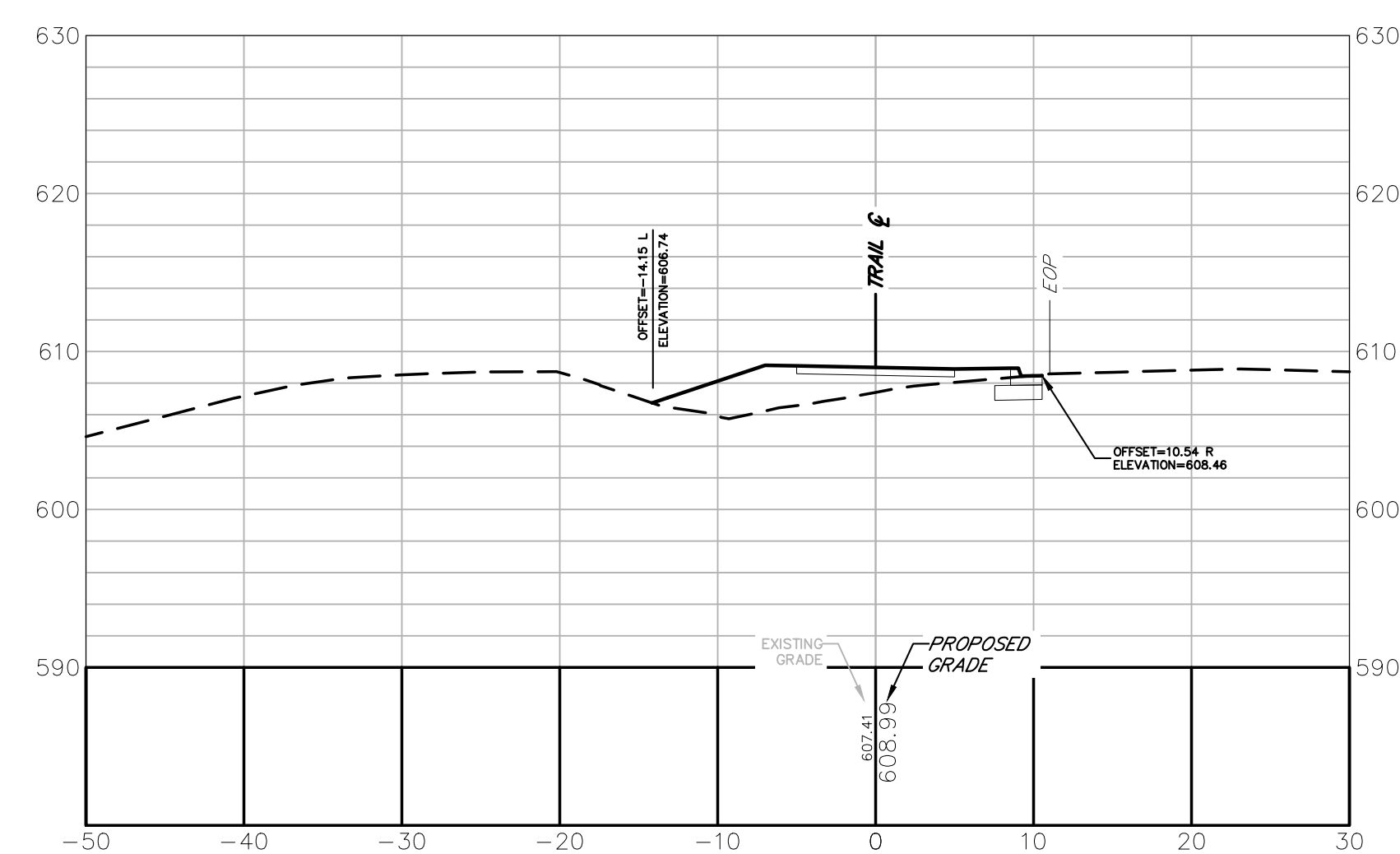
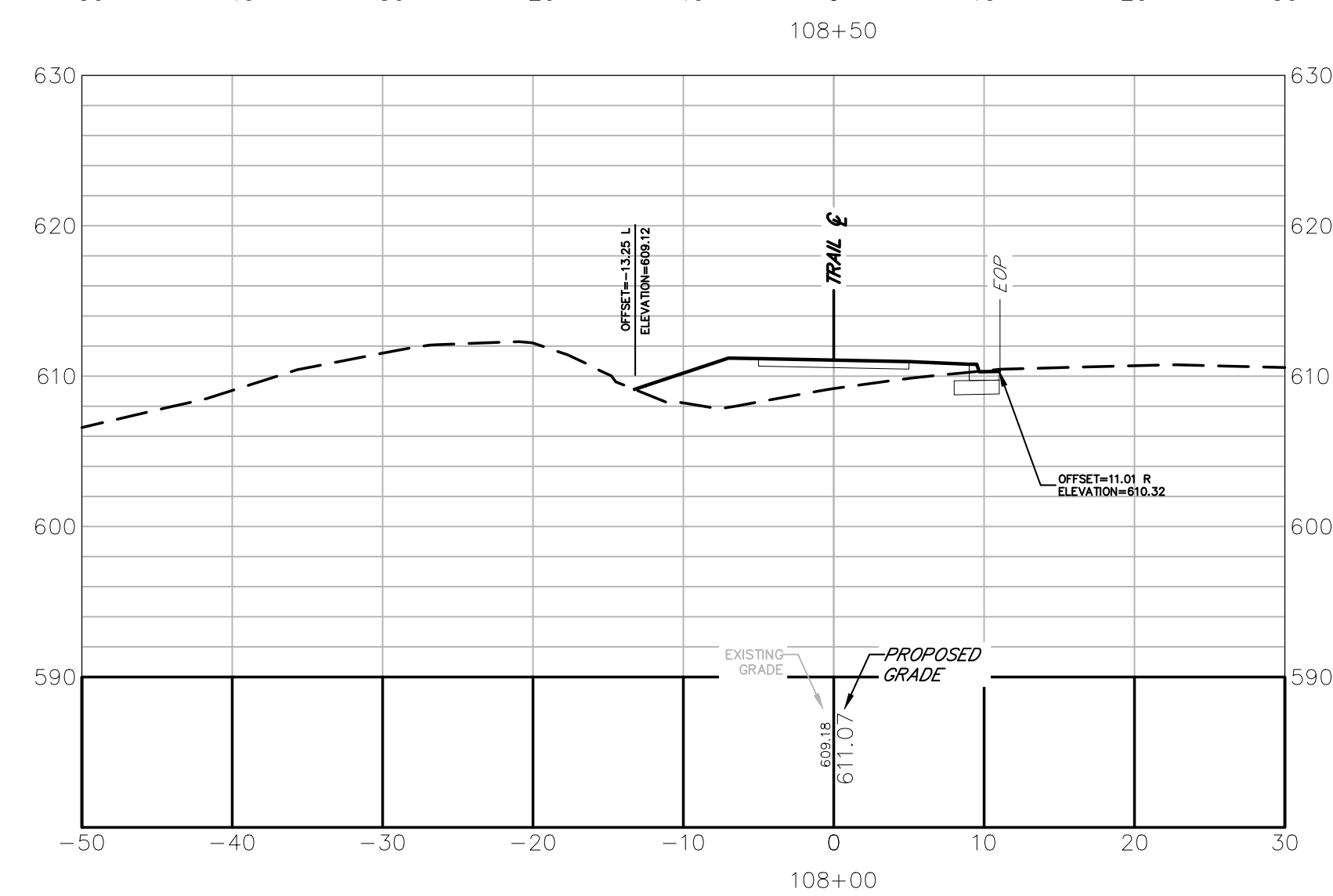
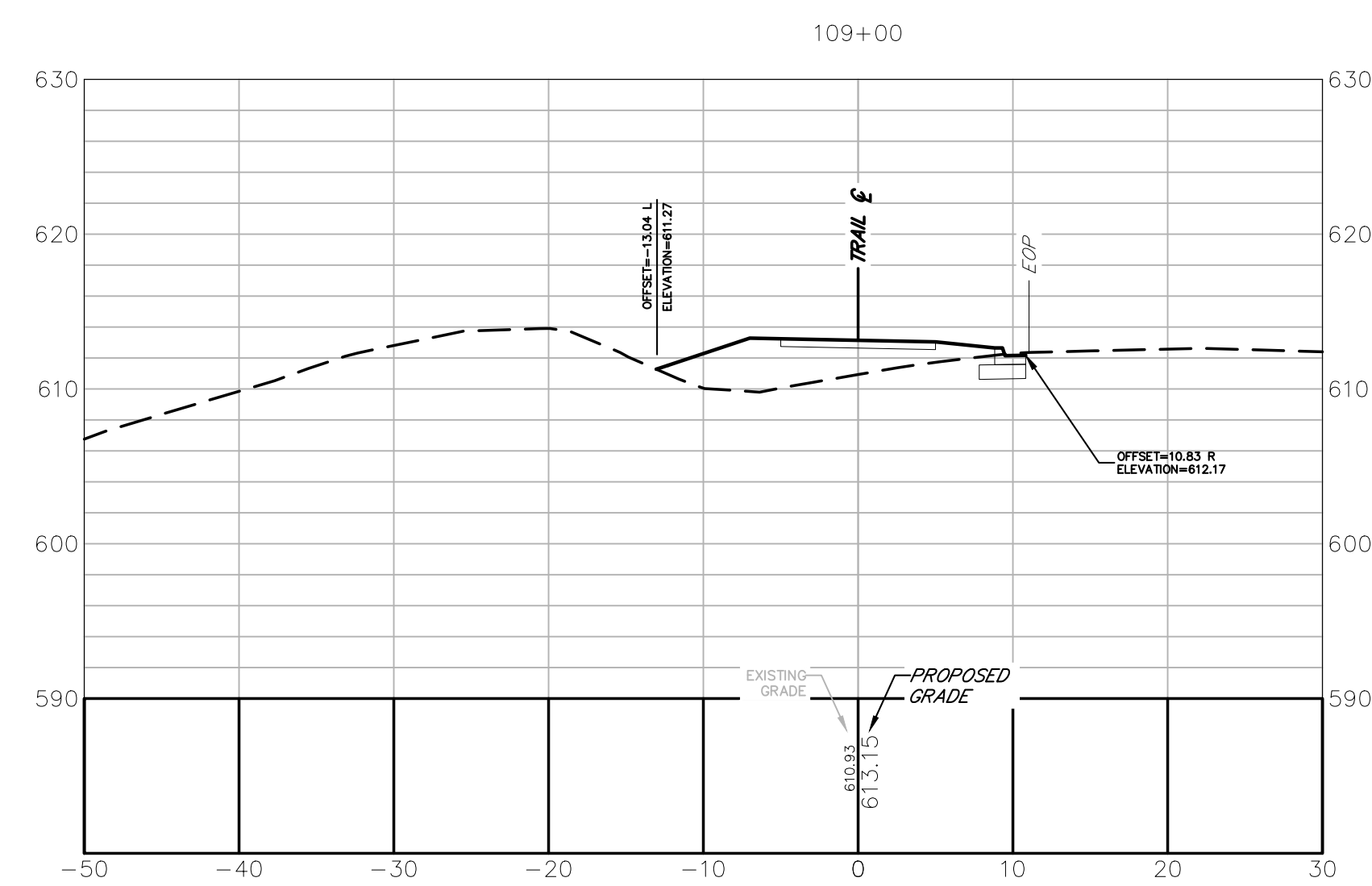
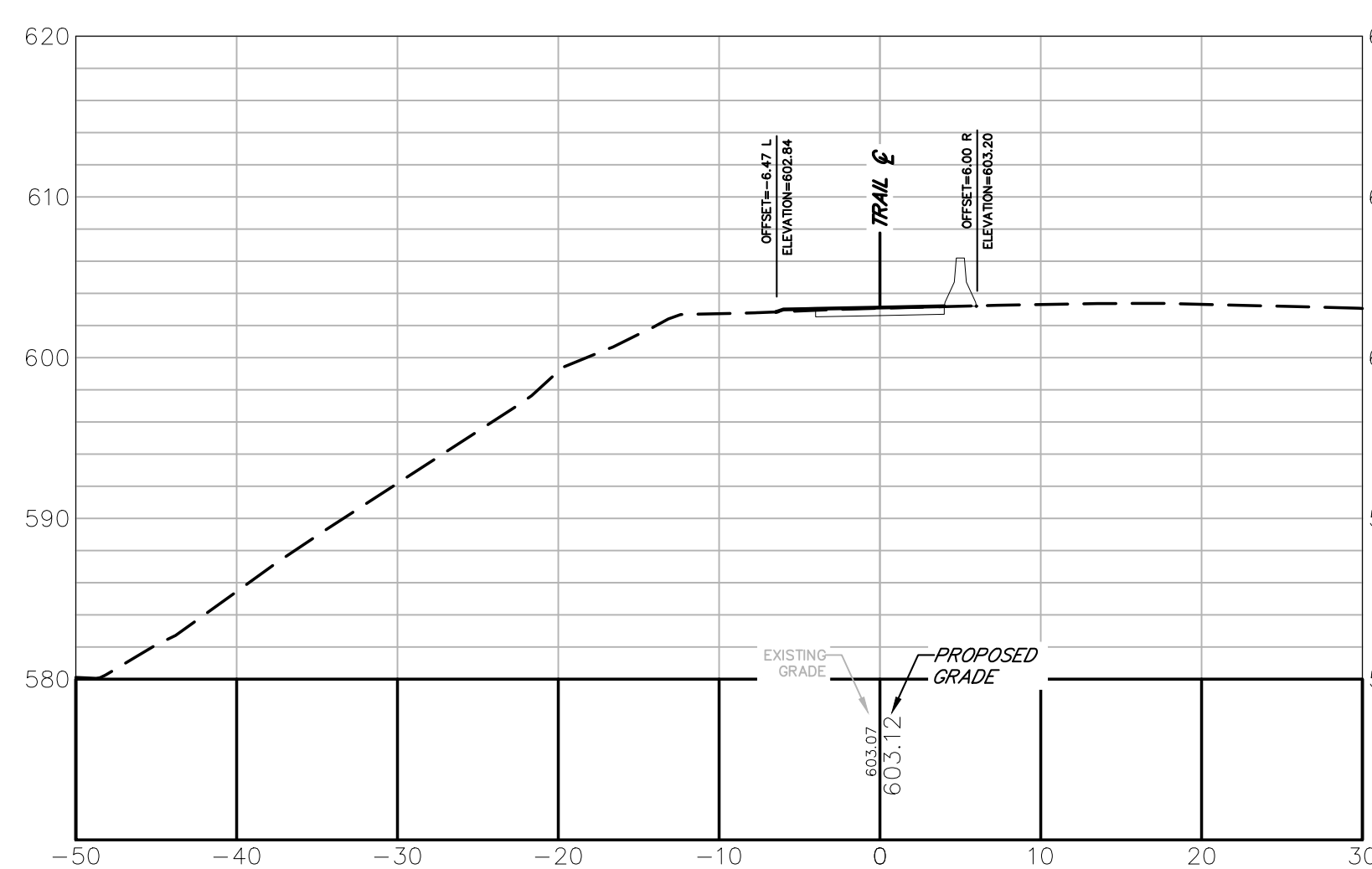
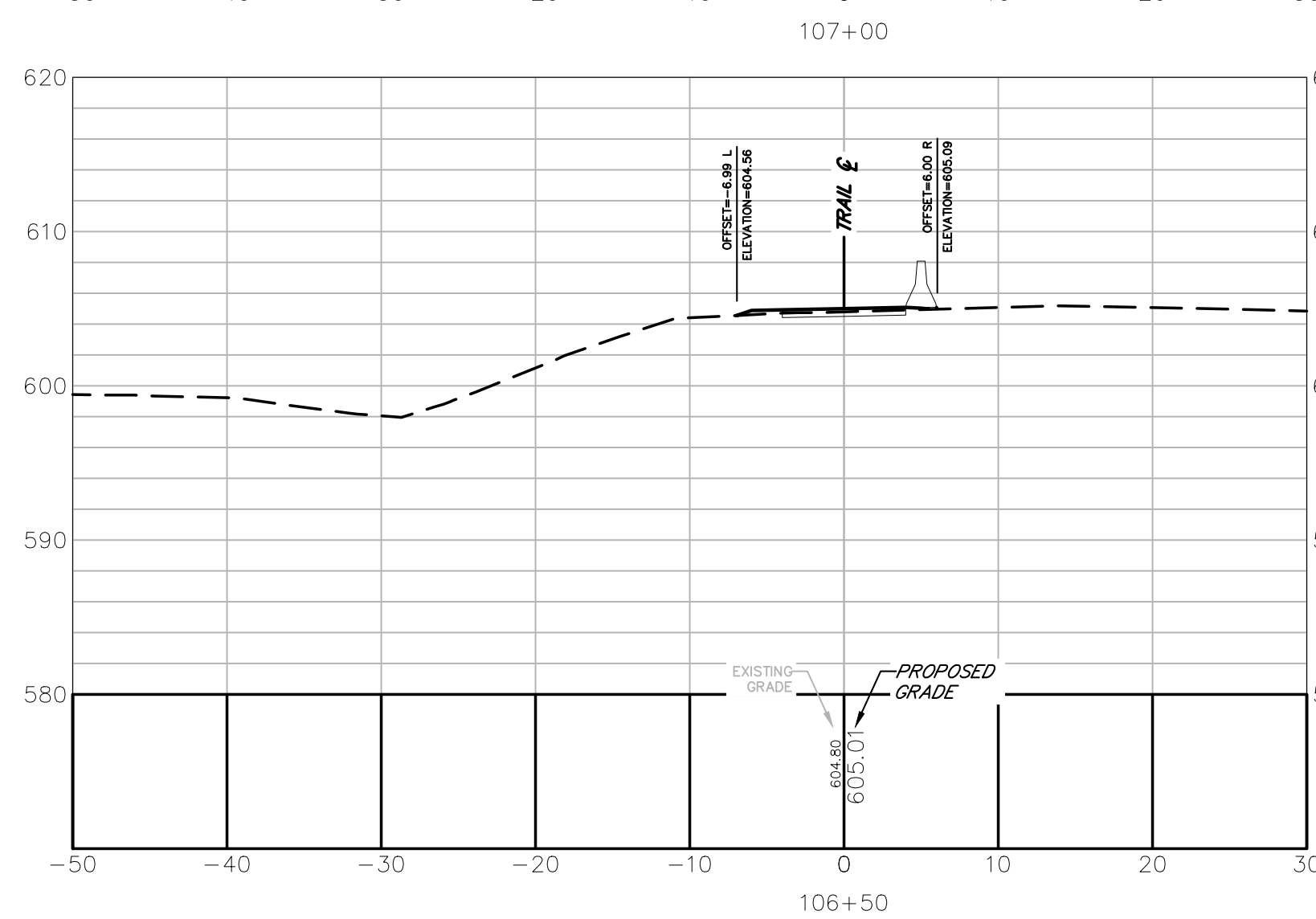
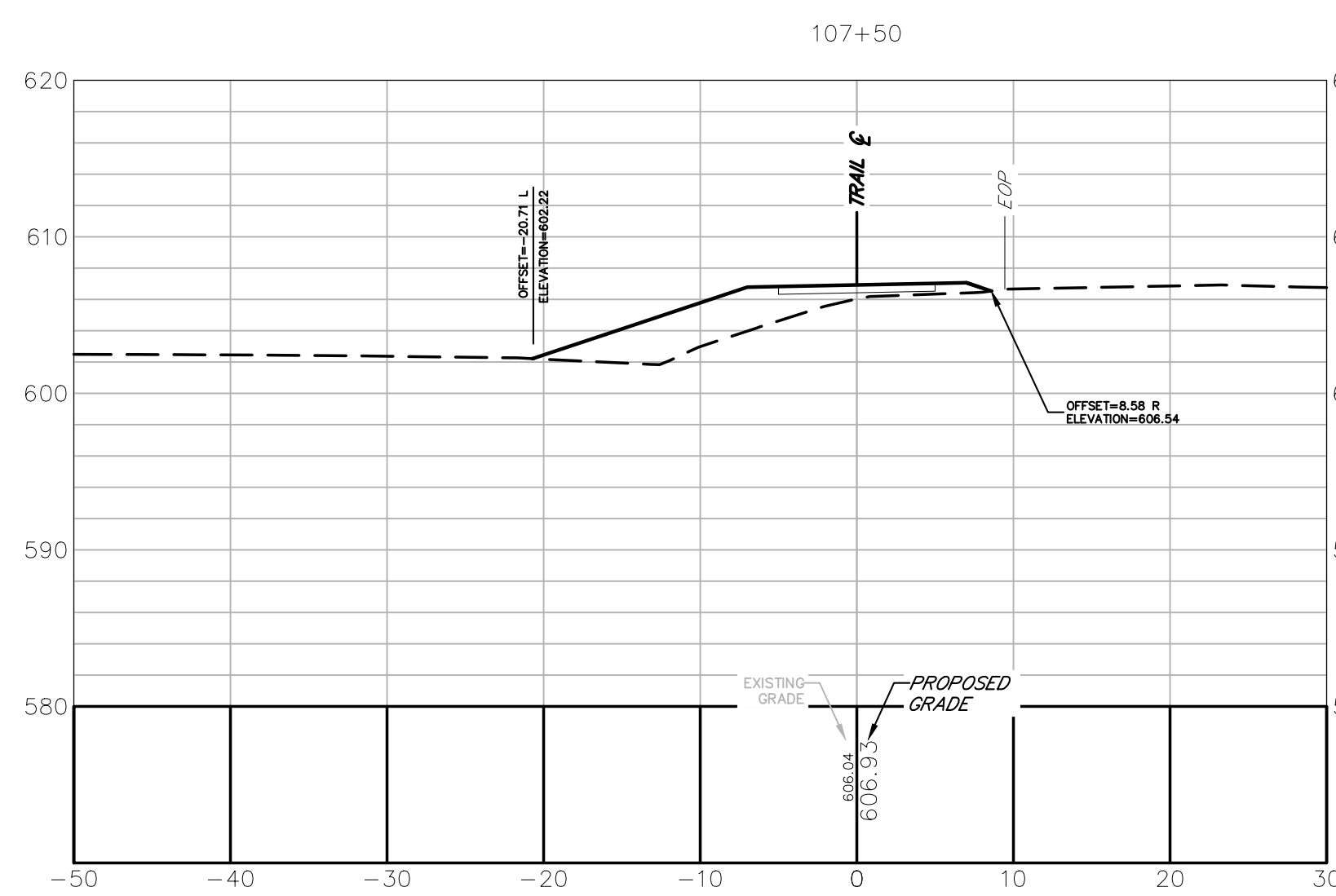
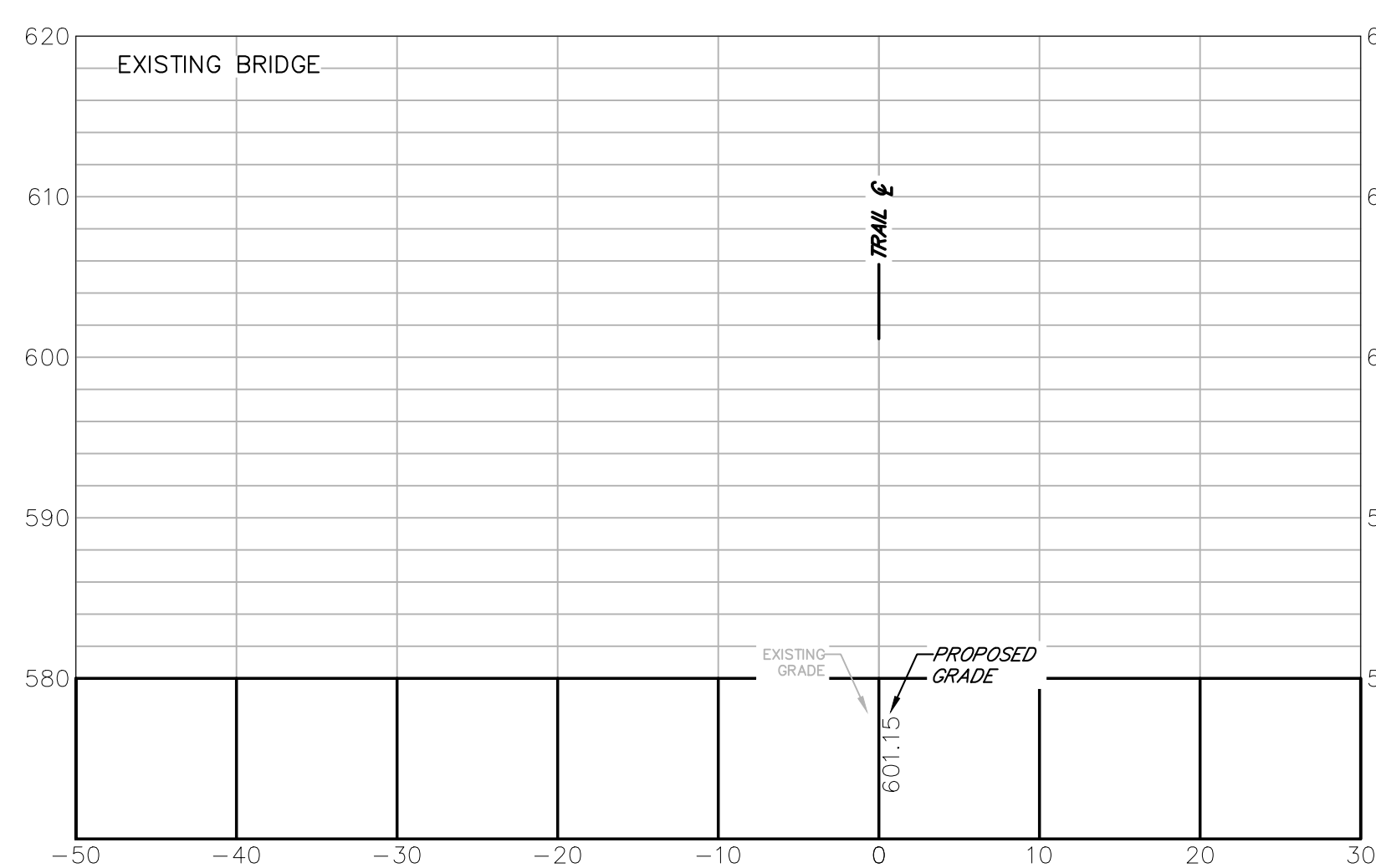
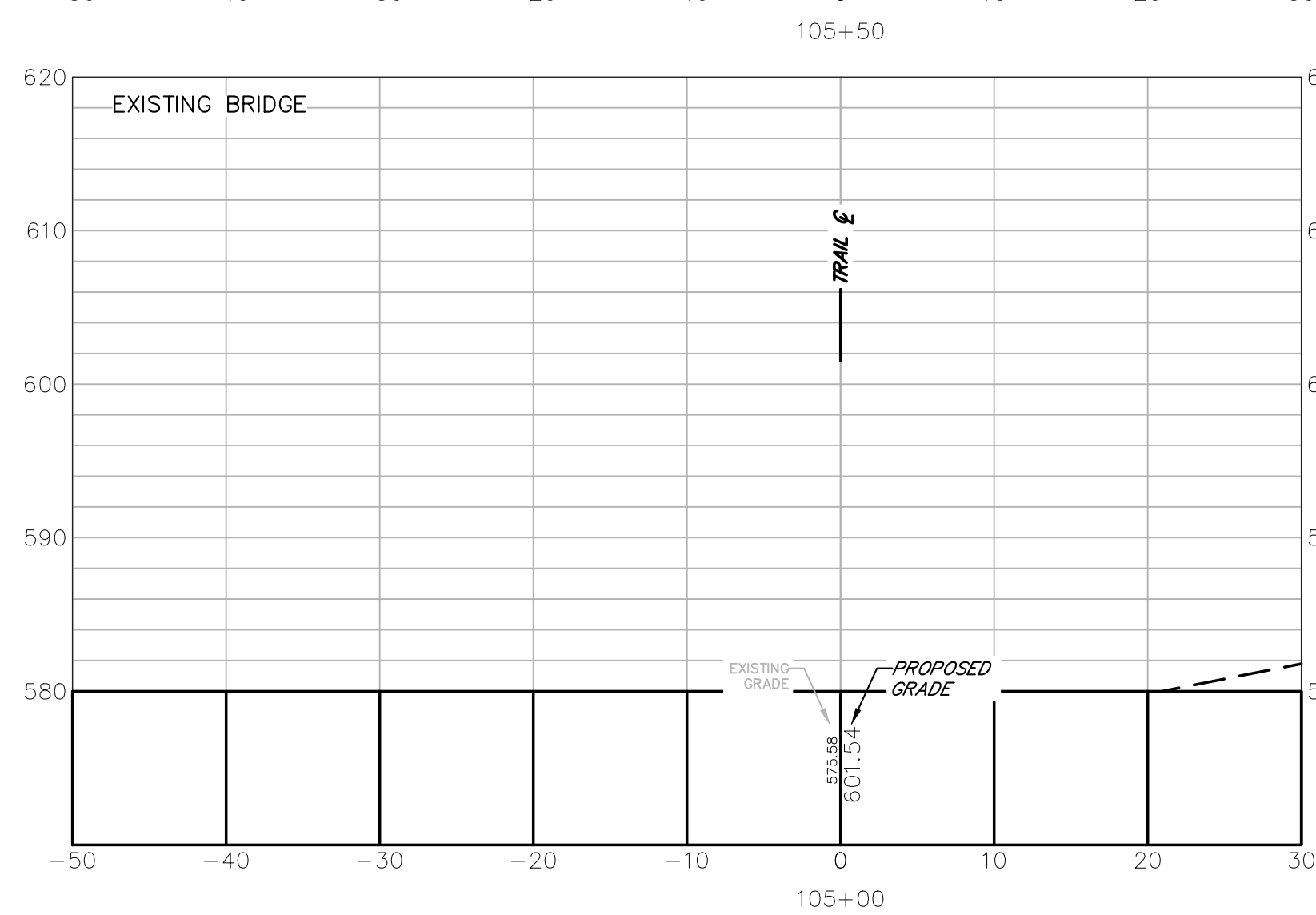
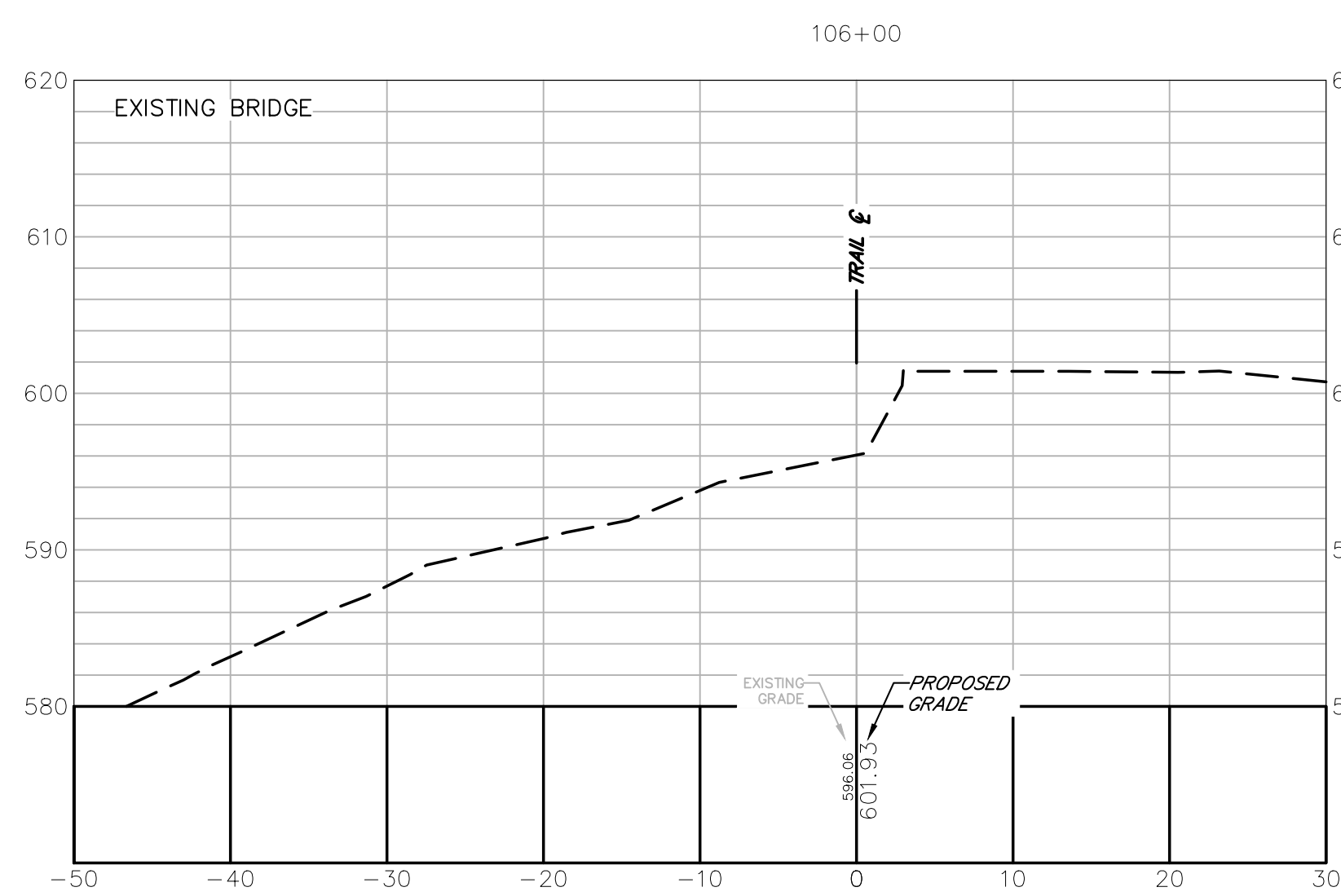
DRAWING SCALE: 1" = 10'

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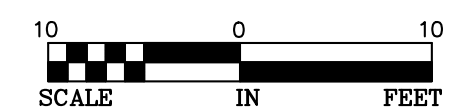
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ATHENS-CLARKE
COUNTY, GA

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CROSS SECTIONS

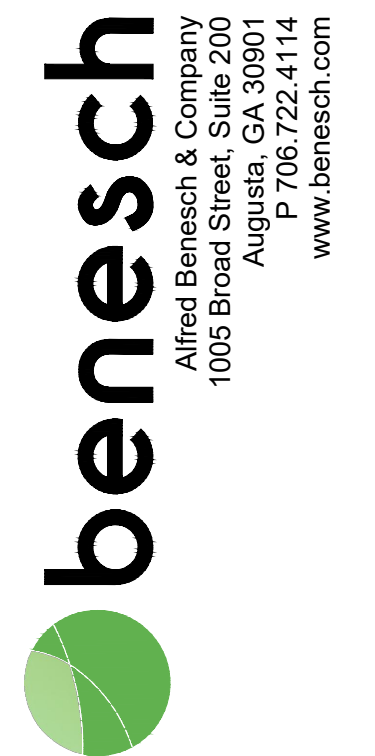
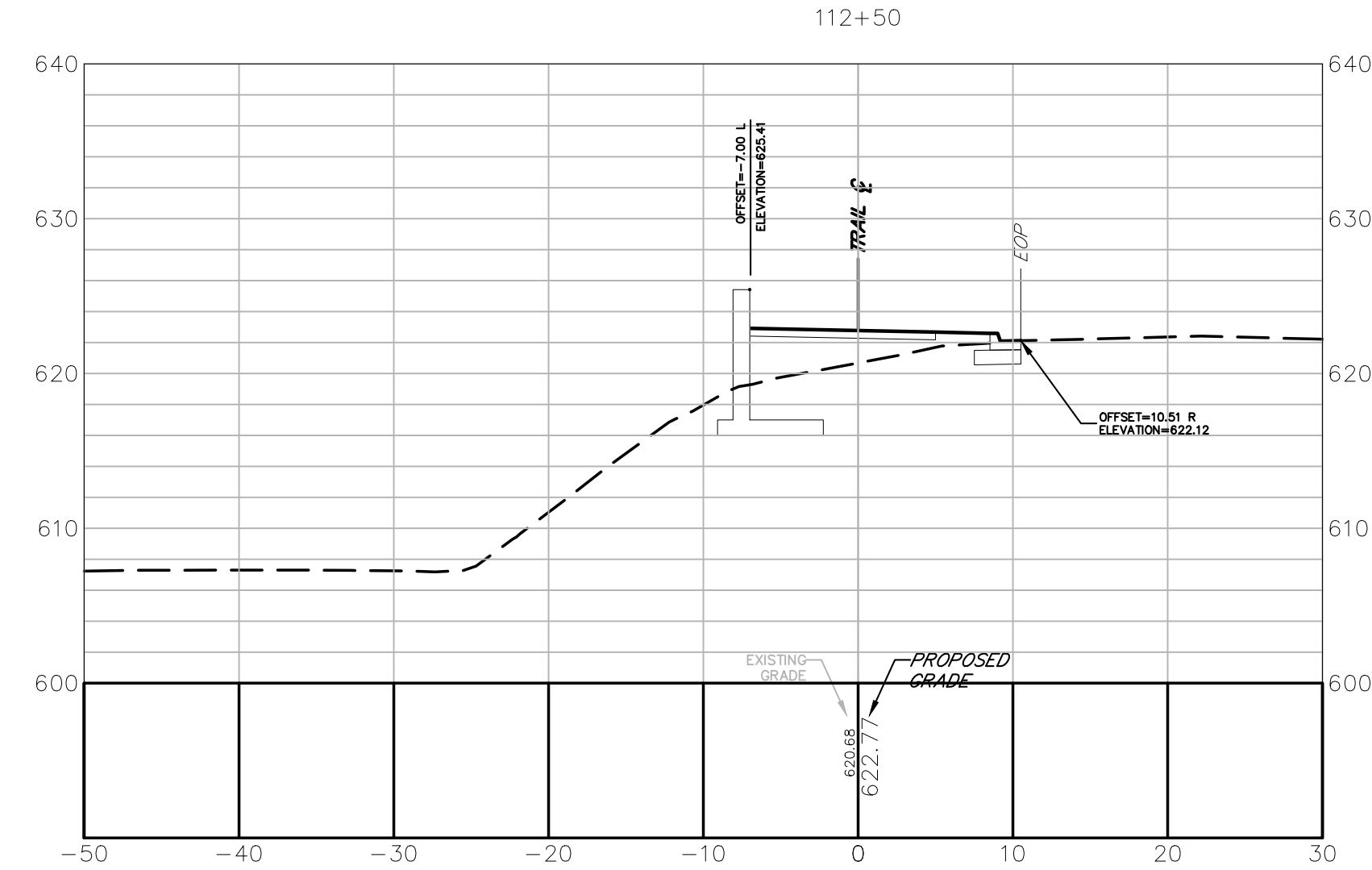
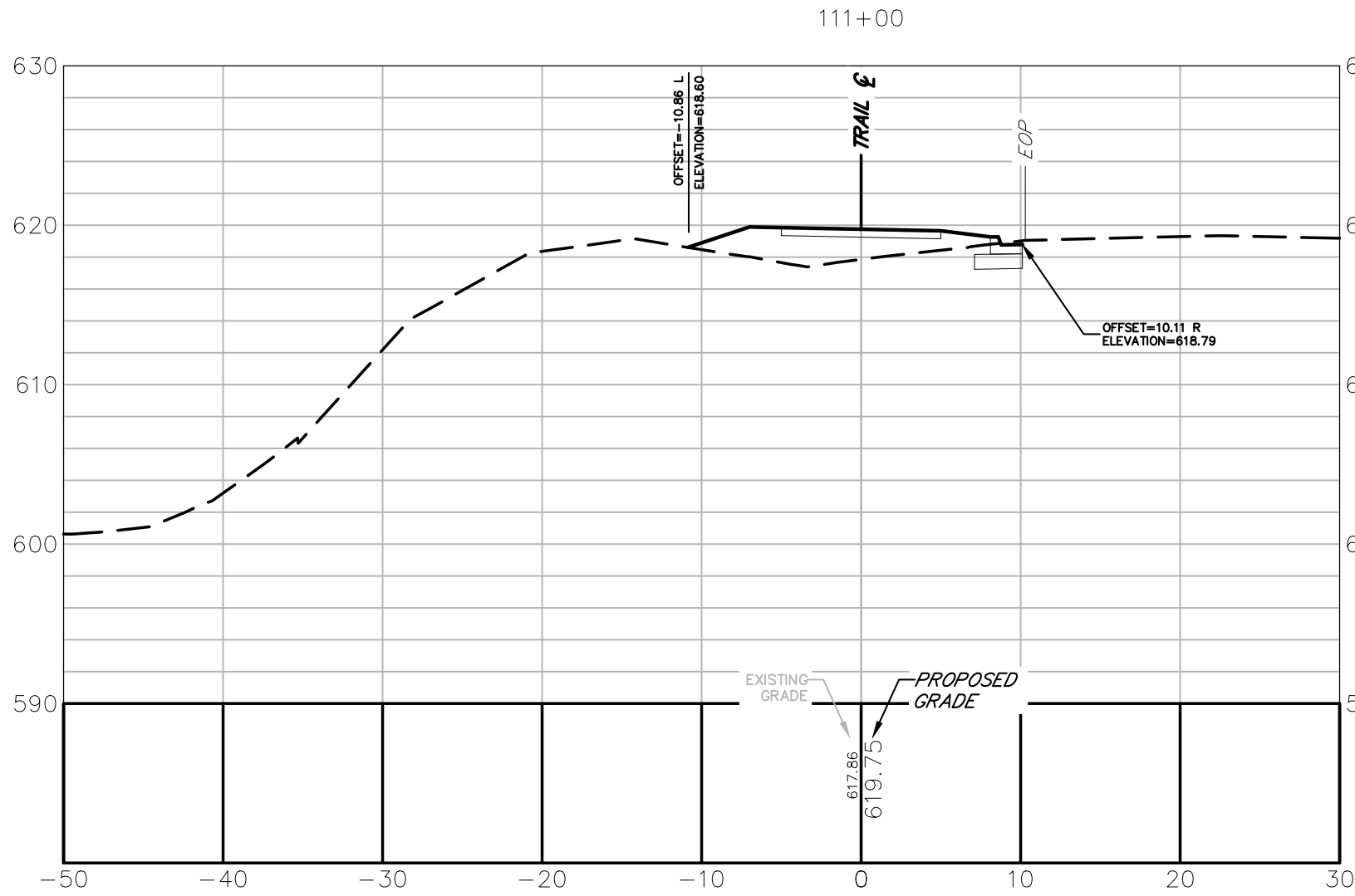
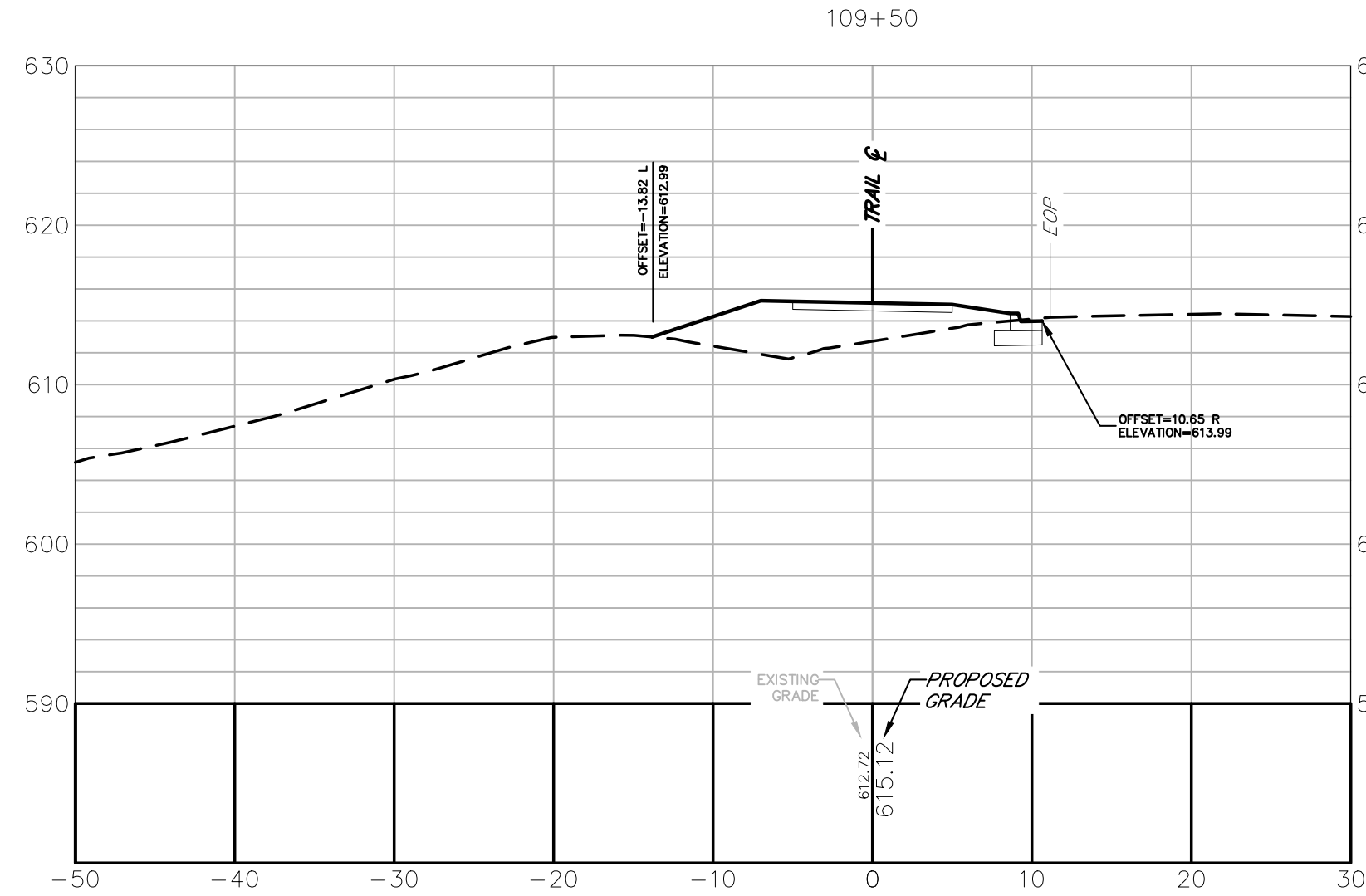
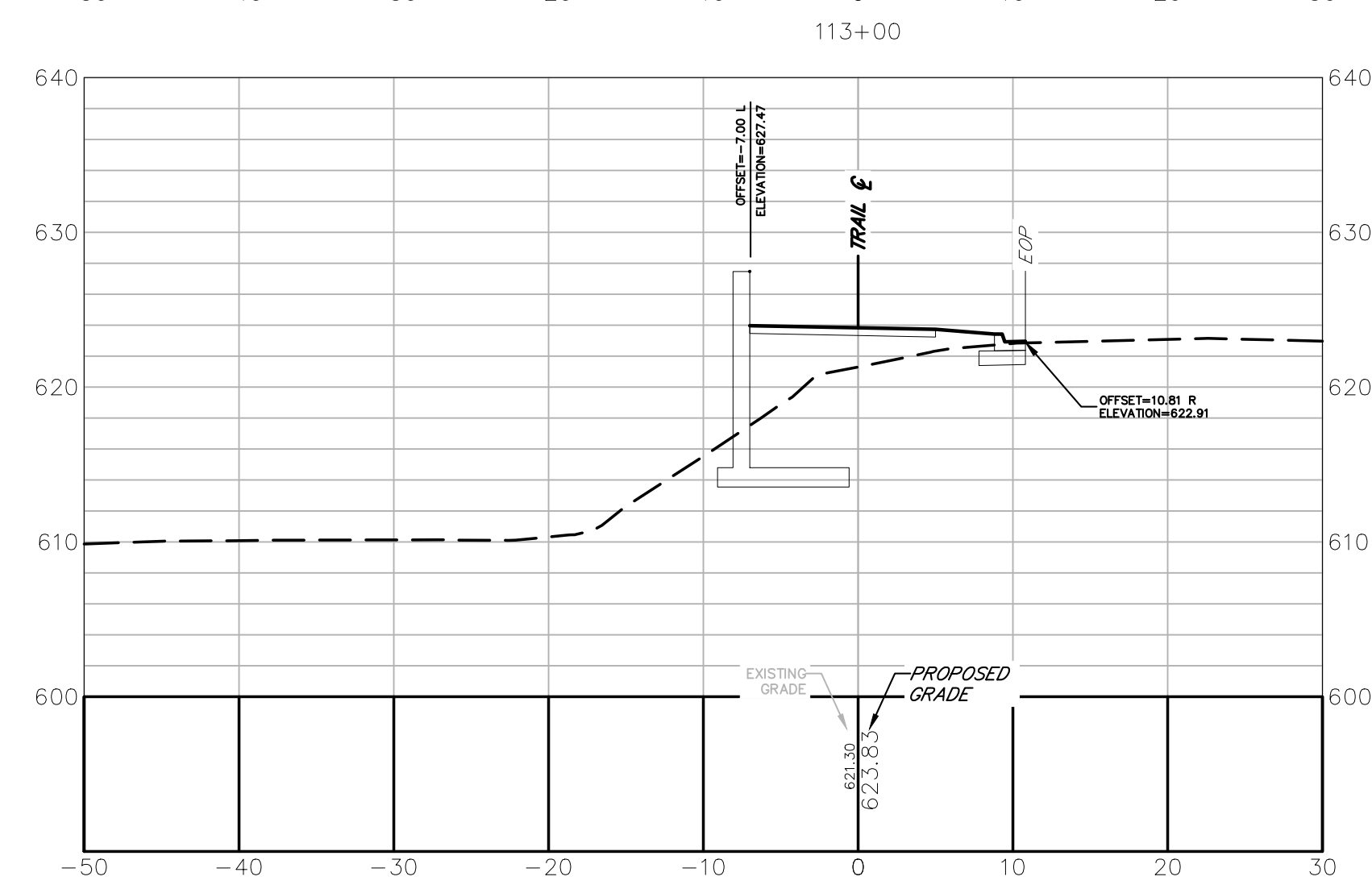
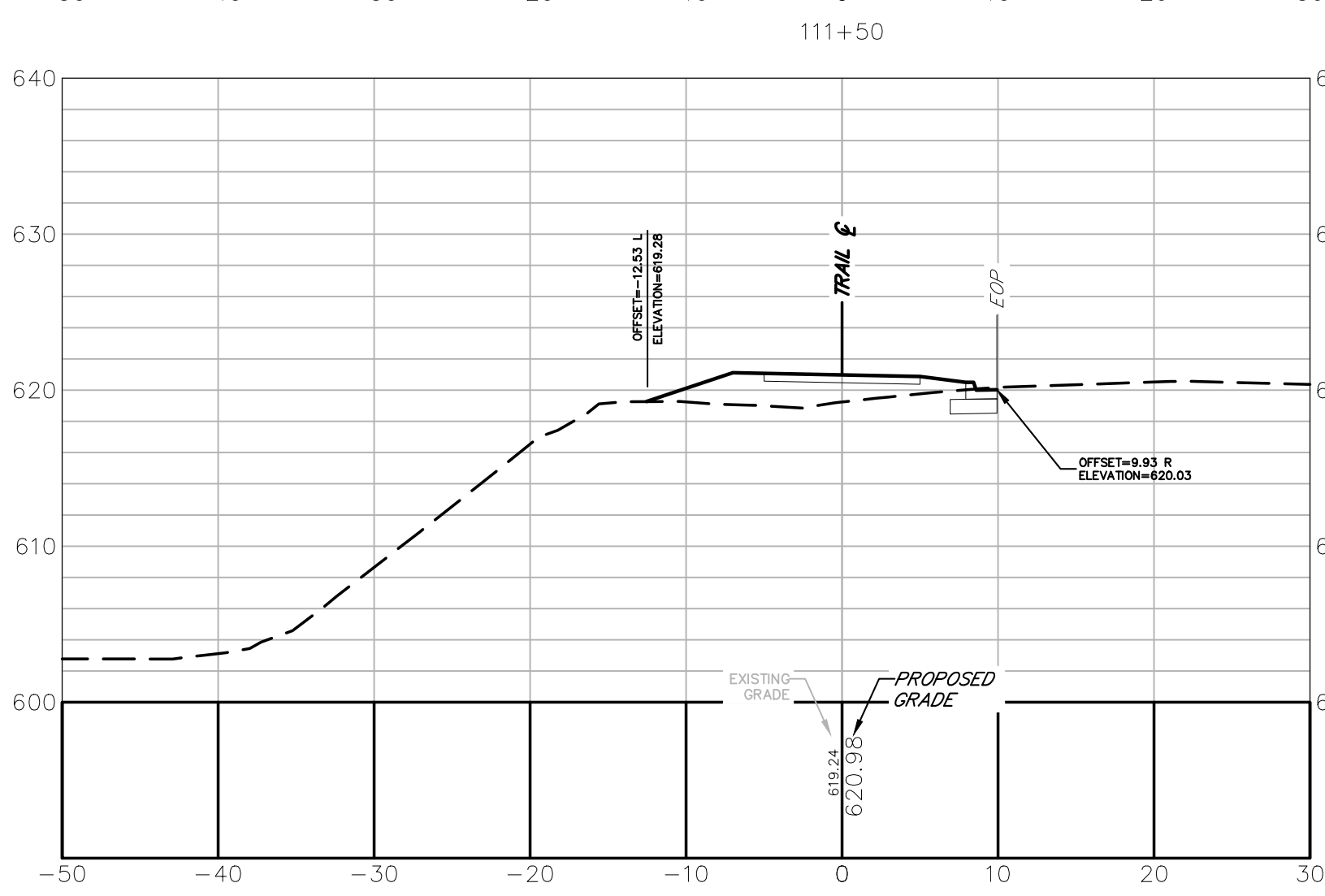
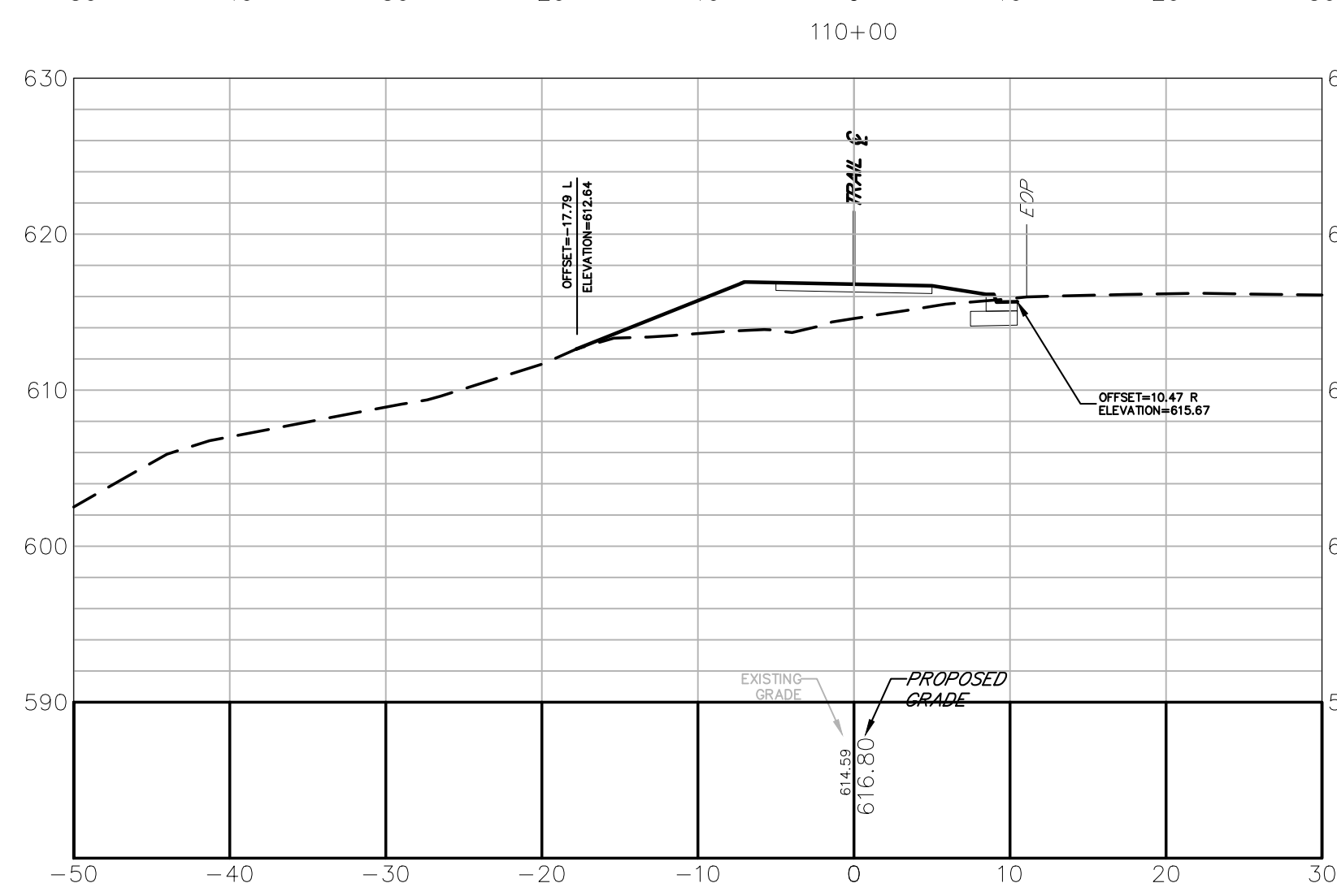
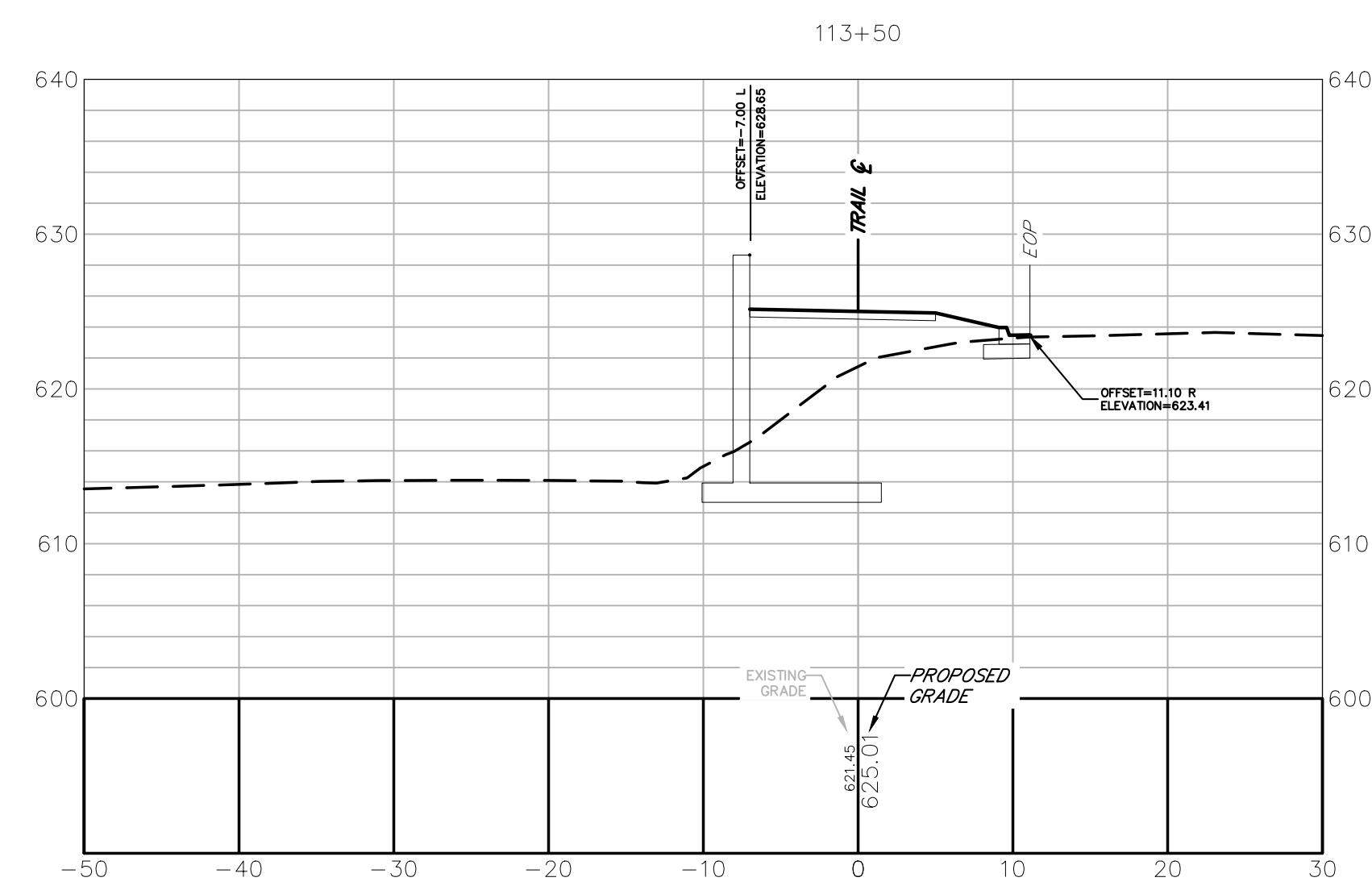
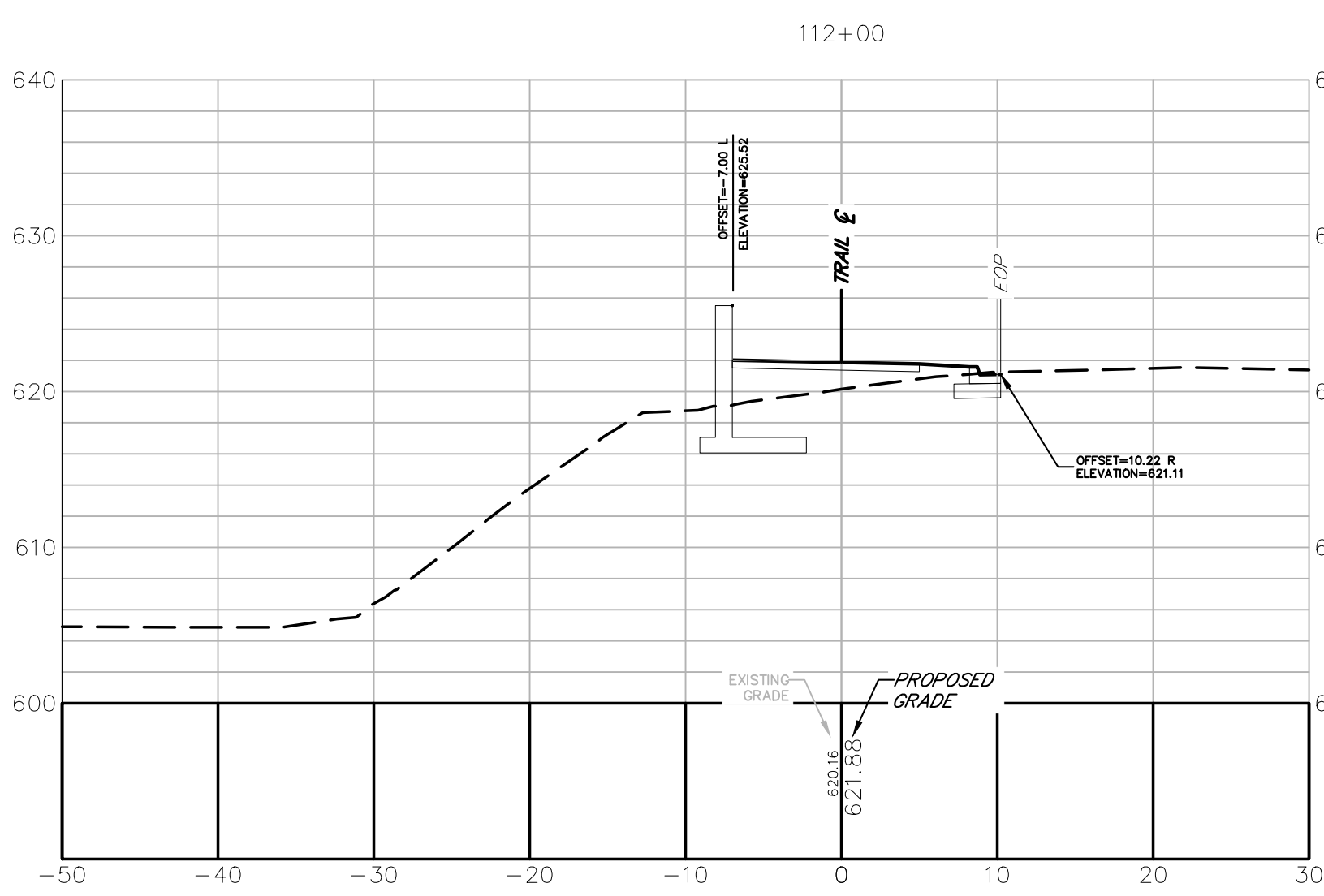
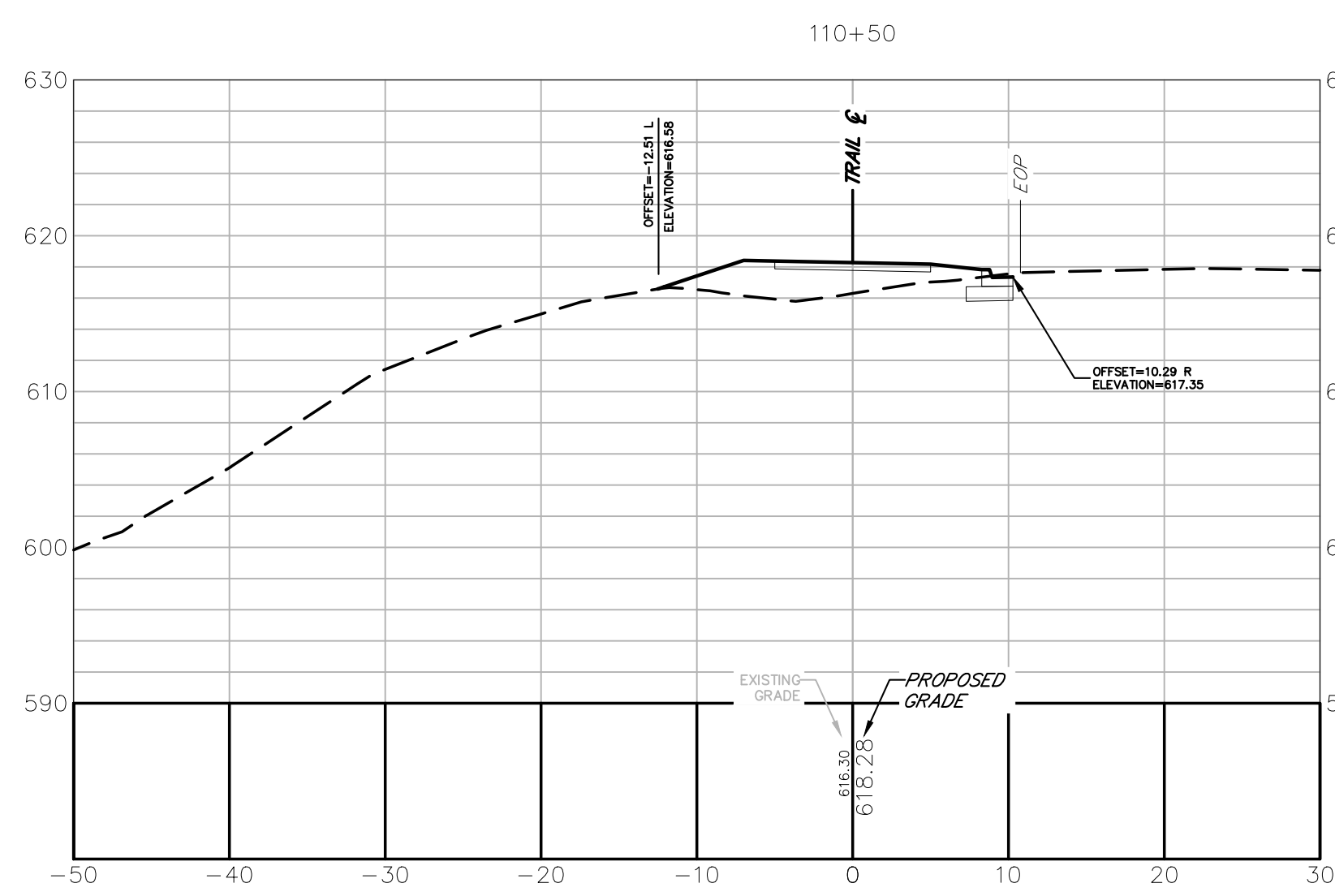
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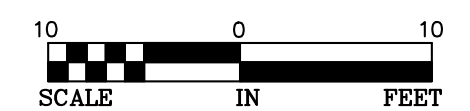
Sheet:
23-002

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ATHENS-CLARKE
COUNTY, GA

SHEET TITLE:
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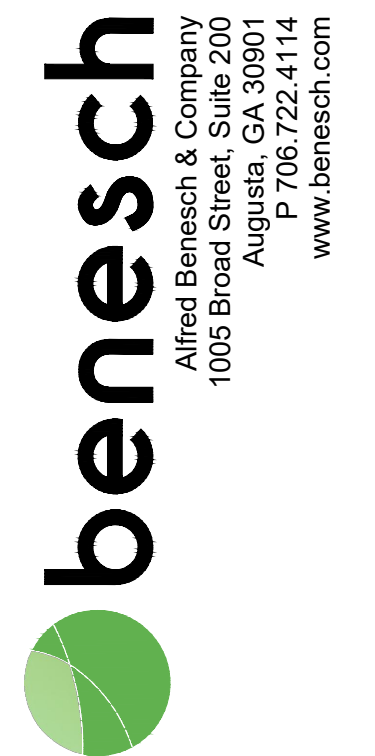
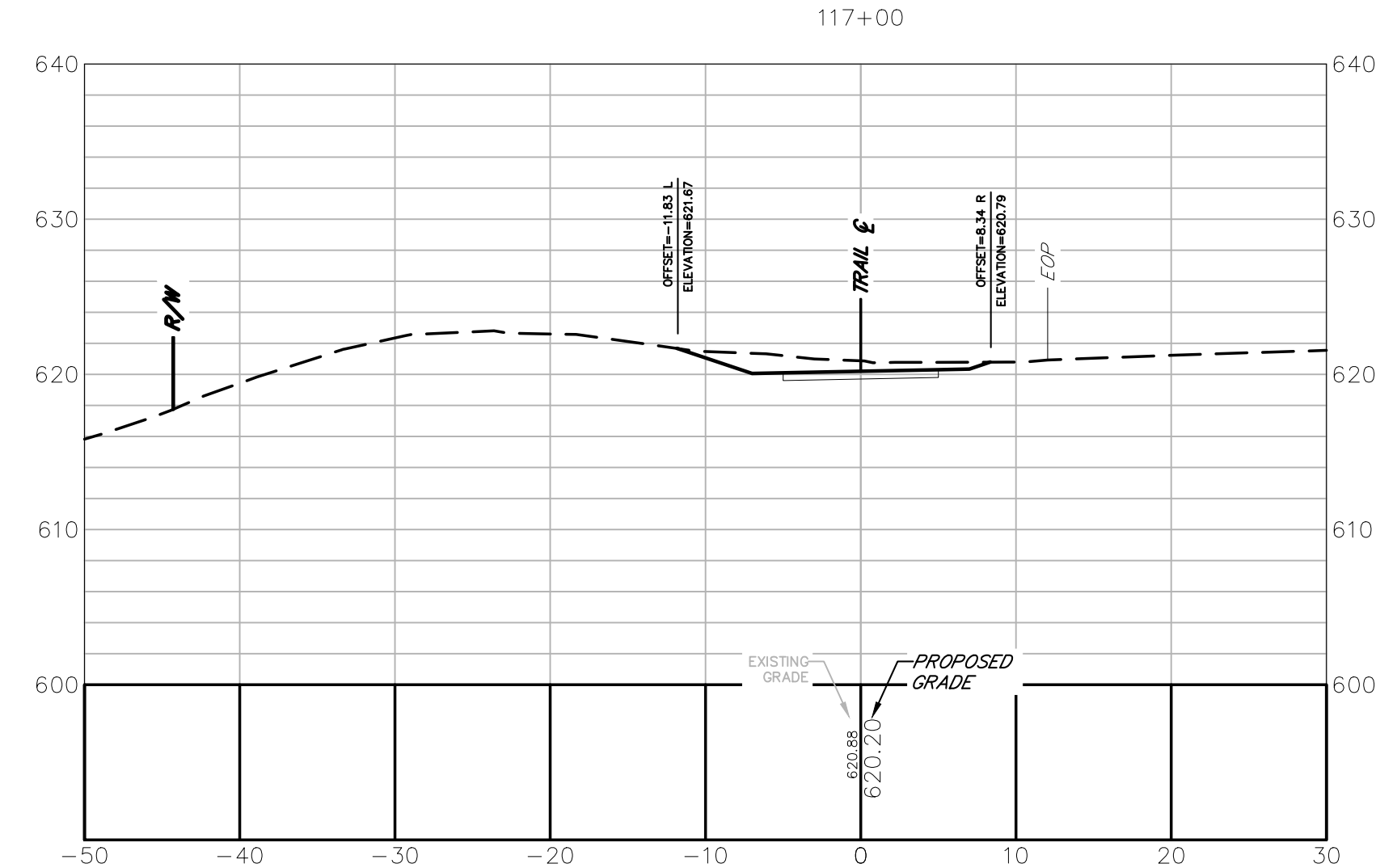
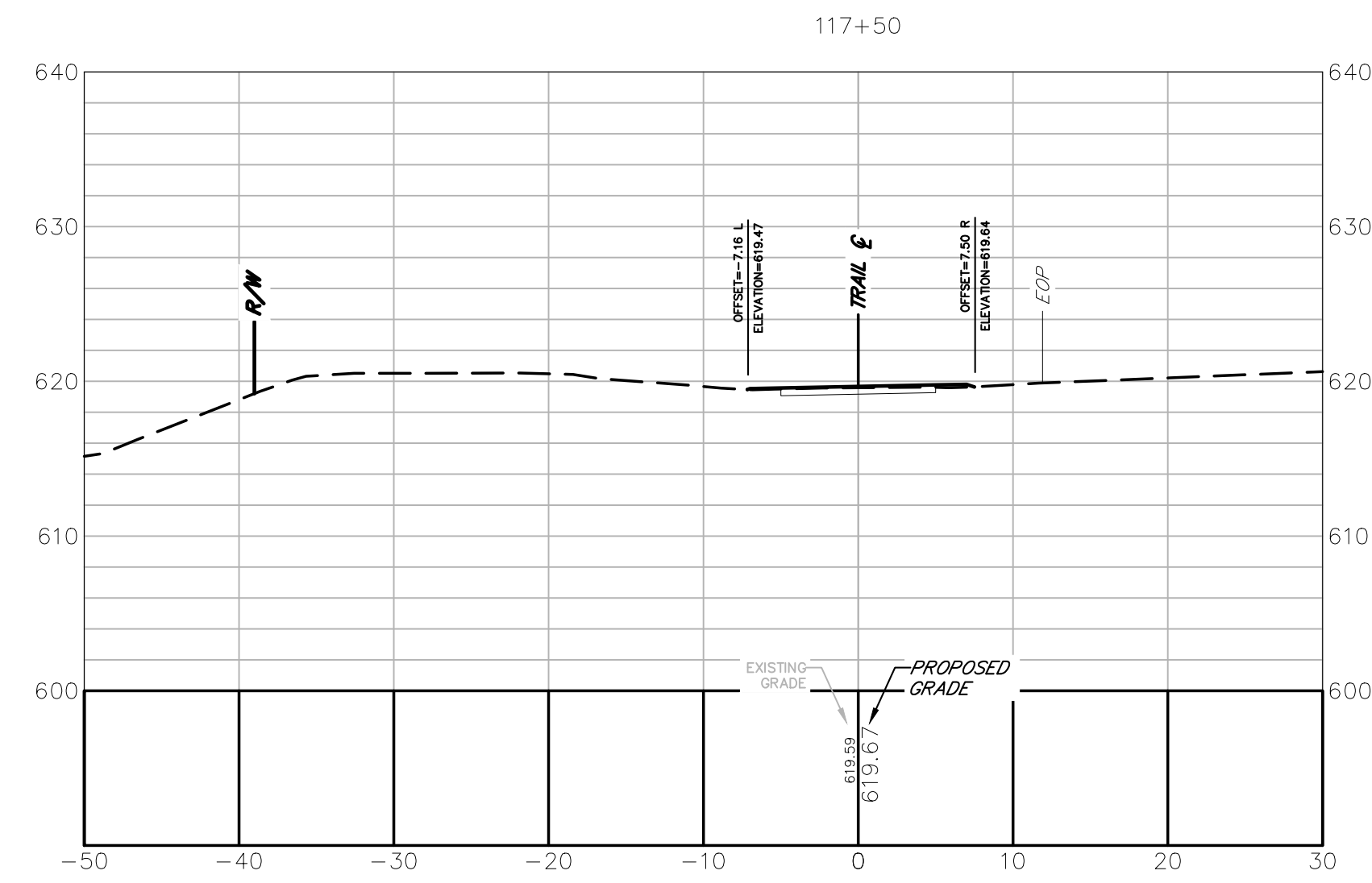
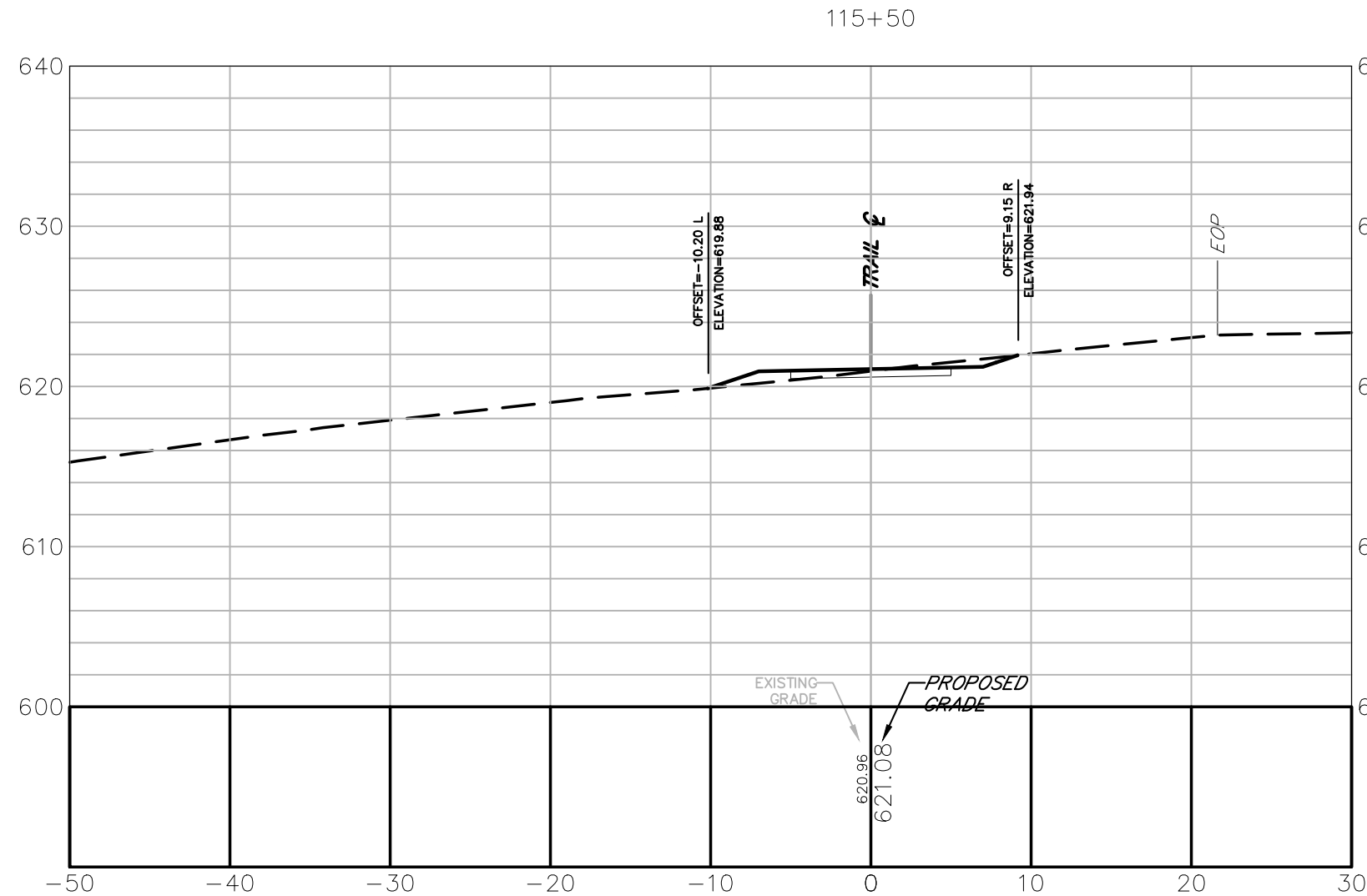
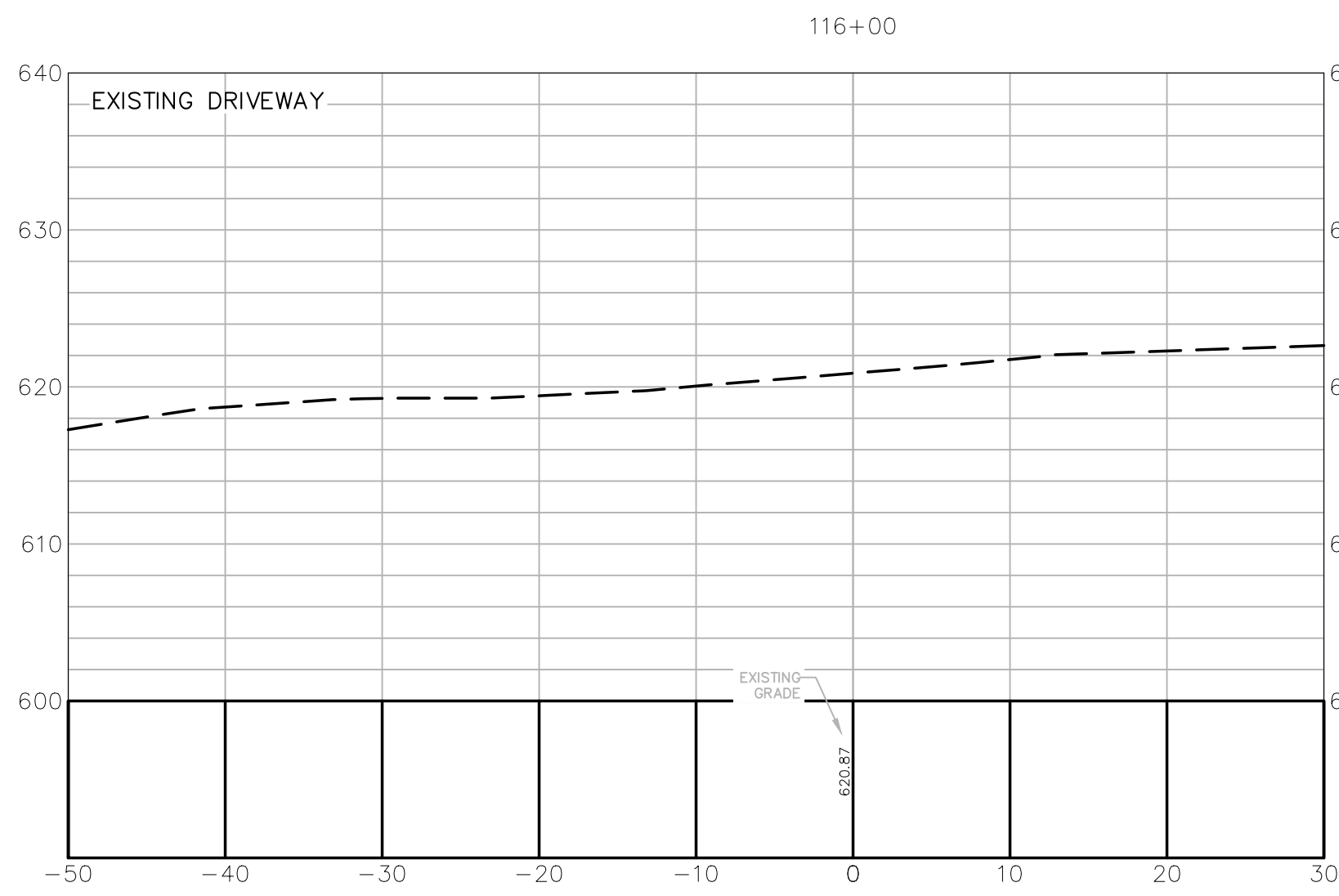
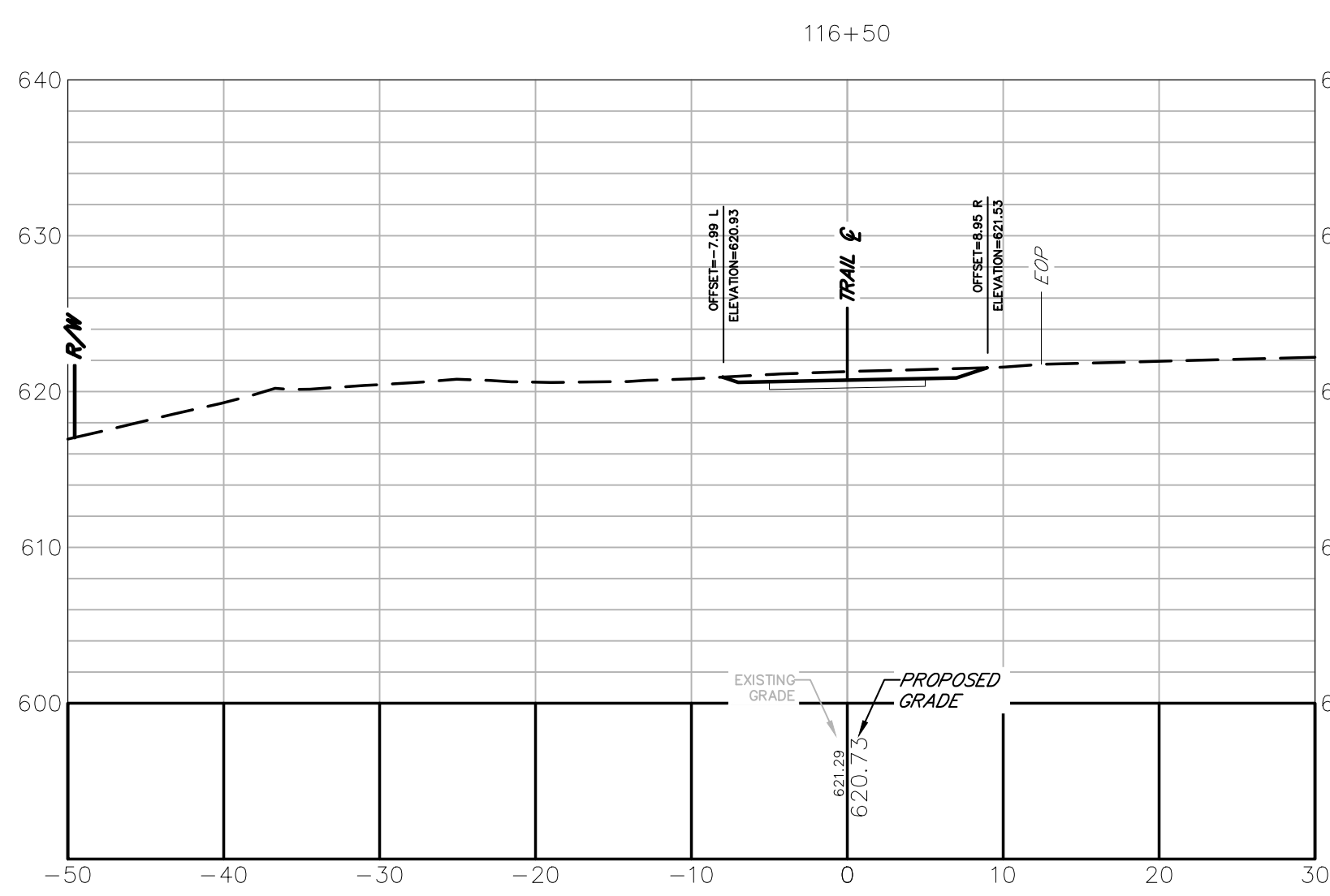
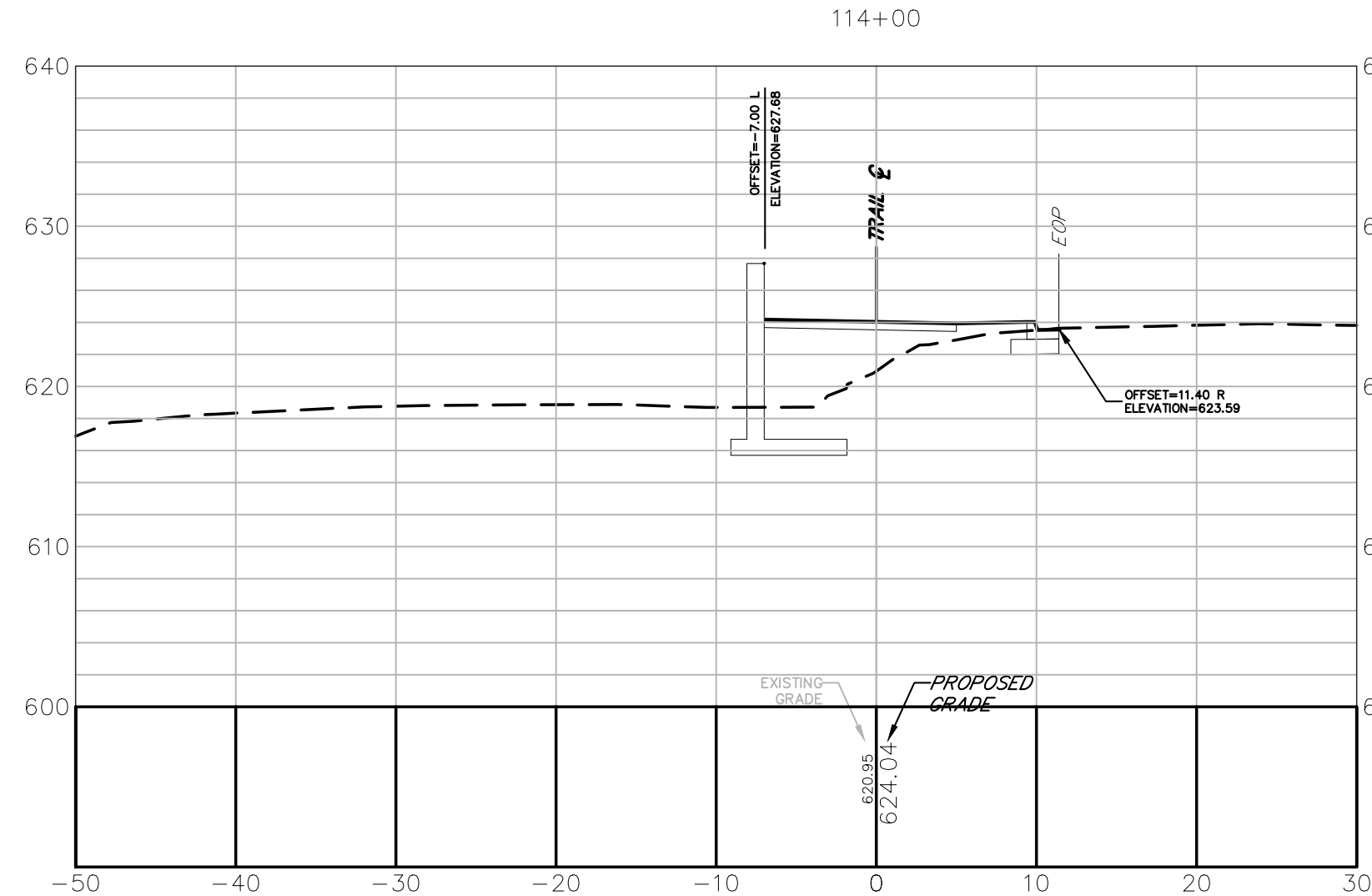
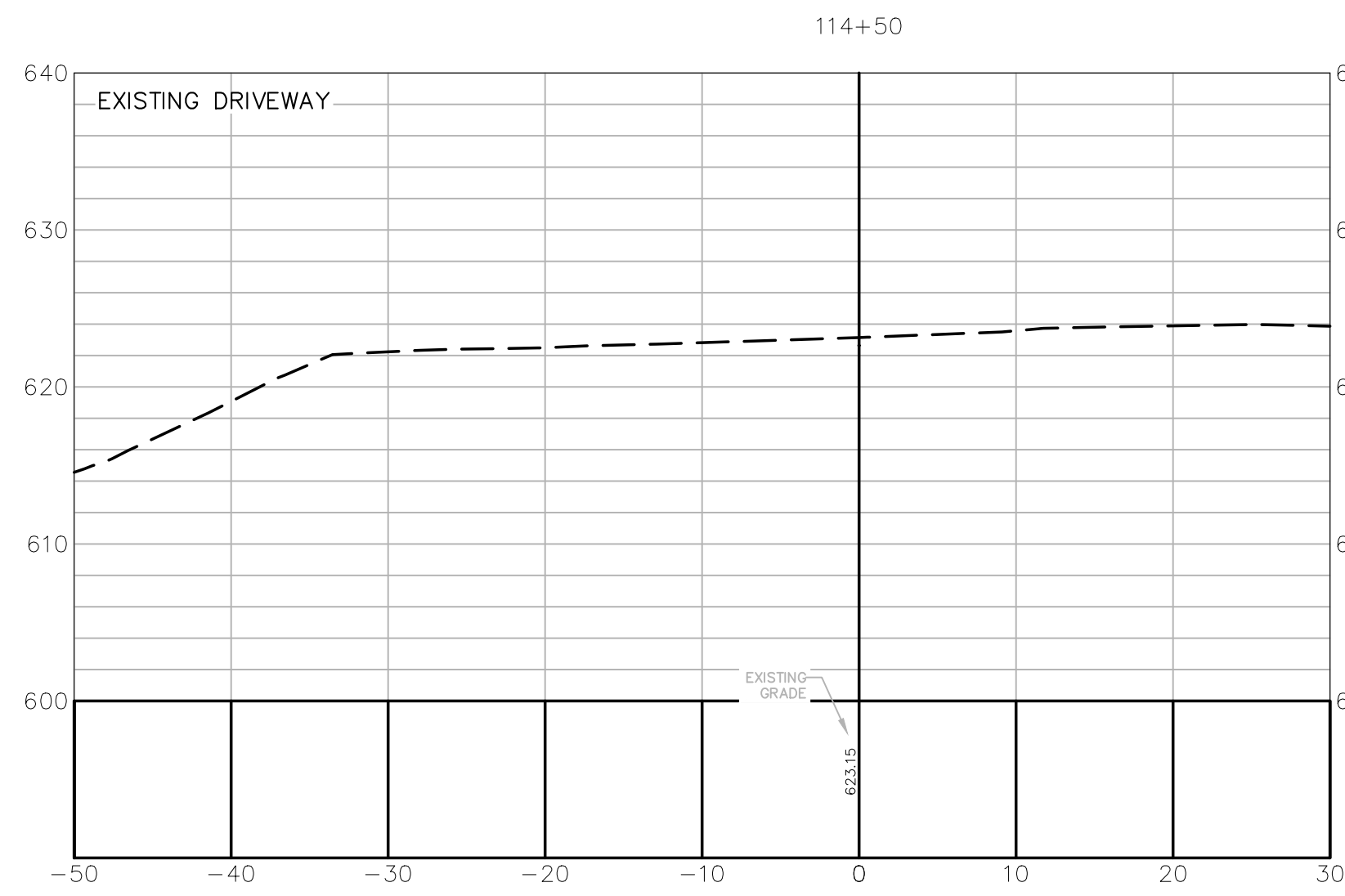
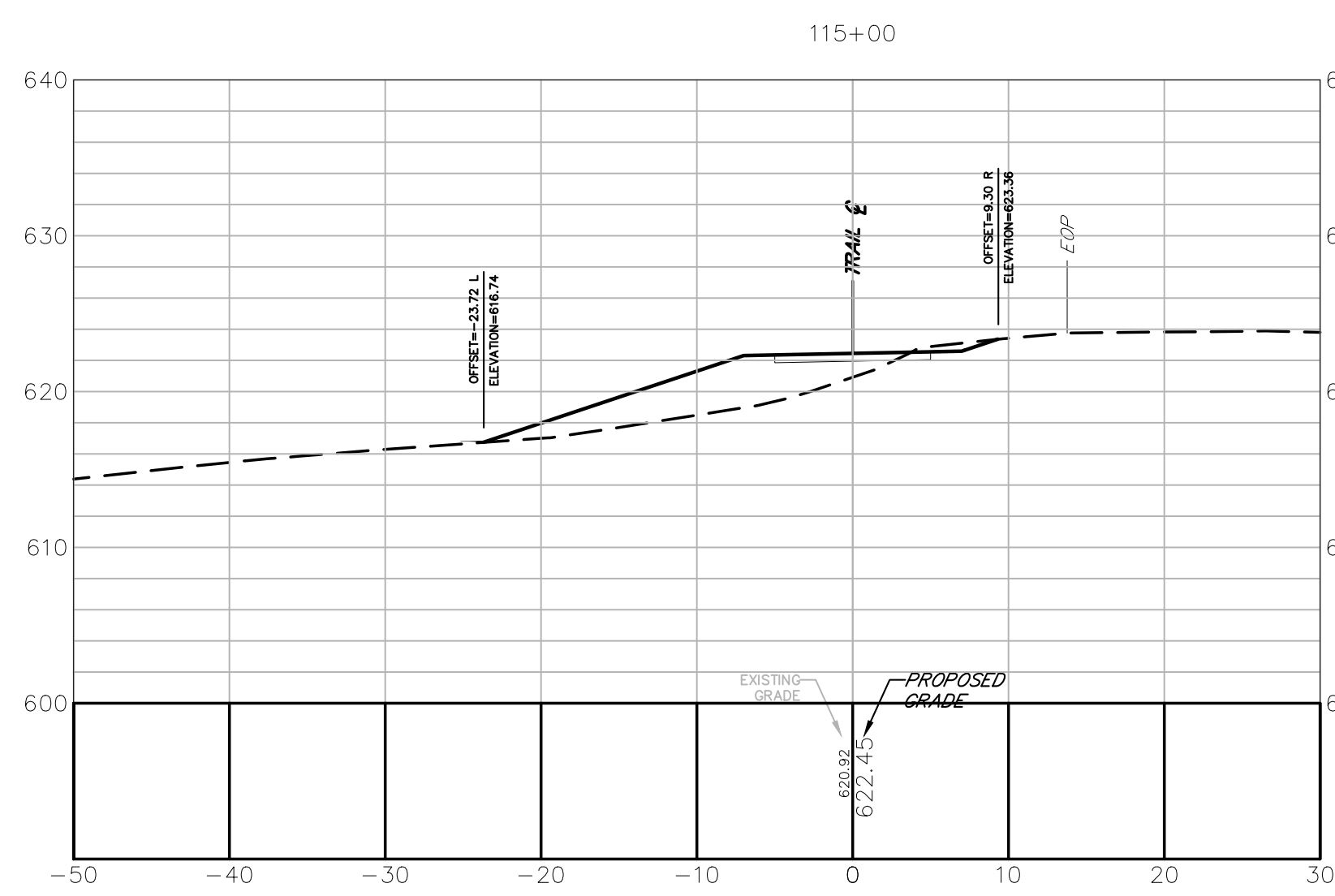
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DRAWING SCALE: 1" = 10'

ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:

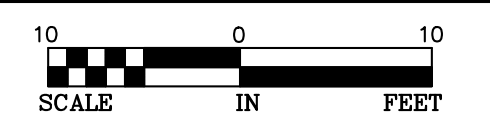
23-003

[illegible]

**ATHENS-CLARKE
COUNTY, GA**

SHEET TITLE:
CROSS SECTIONS

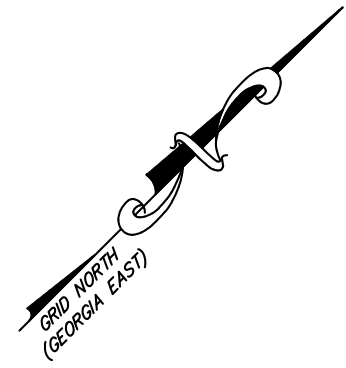
PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH



PROJECT INFORMATION

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: 1" = 10'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
23-004



**benesch**

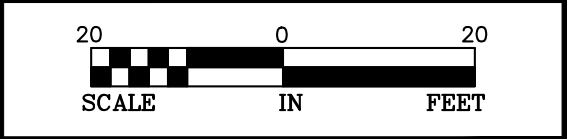
Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
P 706.722.4114
www.benesch.com

REVISION		BLOCK	
REV. NO.	DATE	DESCRIPTION	

ATHENS-CLARKE
COUNTY, GA

SHEET TITLE:
UTILITY PLAN

PROJECT NAME:
**MITCHELL BRIDGE
ROAD SHARED USE
PATH**



20 0 20
SCALE IN FEET

PROJECT INFORMATION

JOB NO: 19023003

DRAWN BY: KC

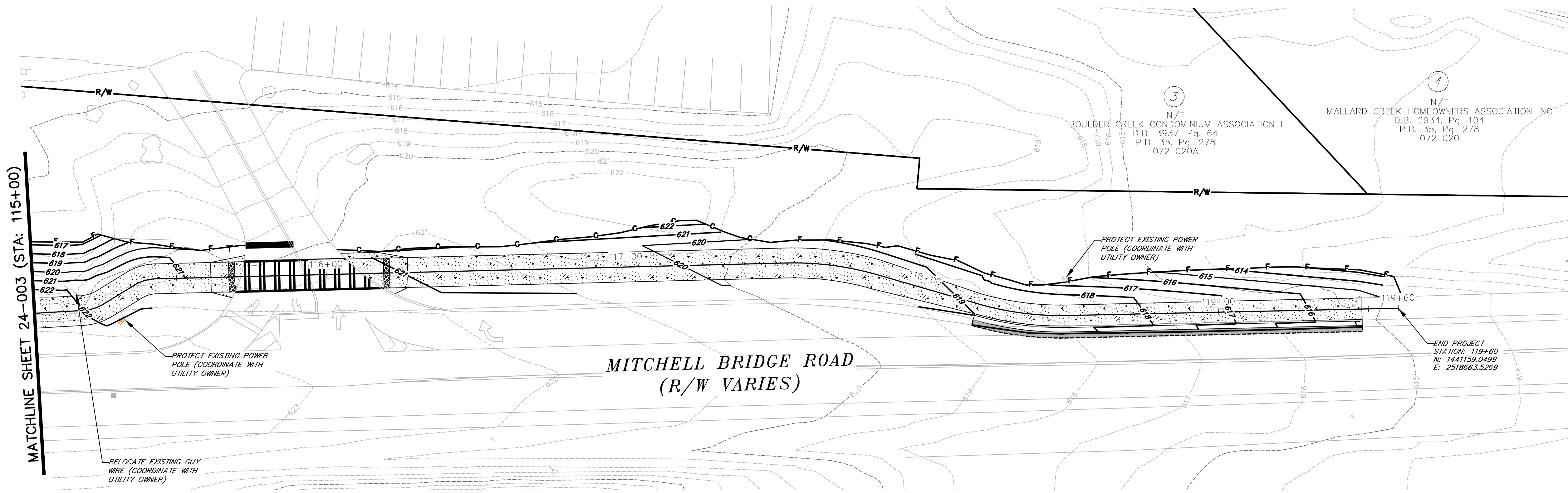
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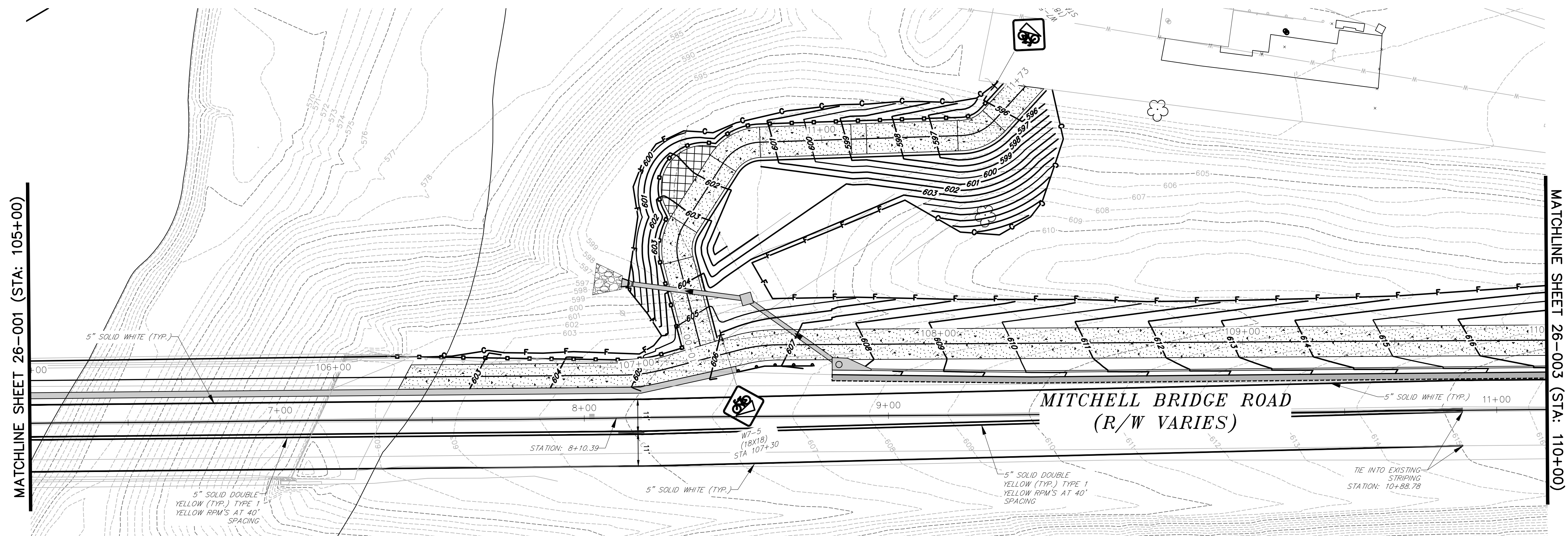
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DRAWING SCALE: 1" = 20'

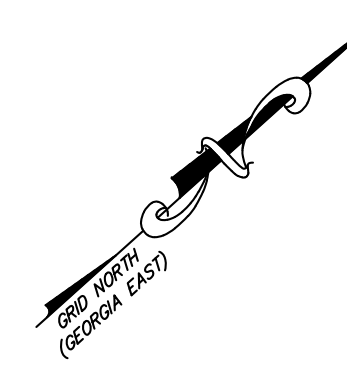
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

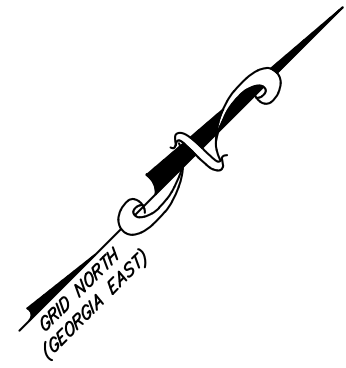
Sheet:
24-004






CONTRACTOR TO STRIPE THE TRAIL
CENTERLINE WITH 5" SKIP YELLOW
THERMOPLASTIC TRAFFIC STRIPE



[illegible]

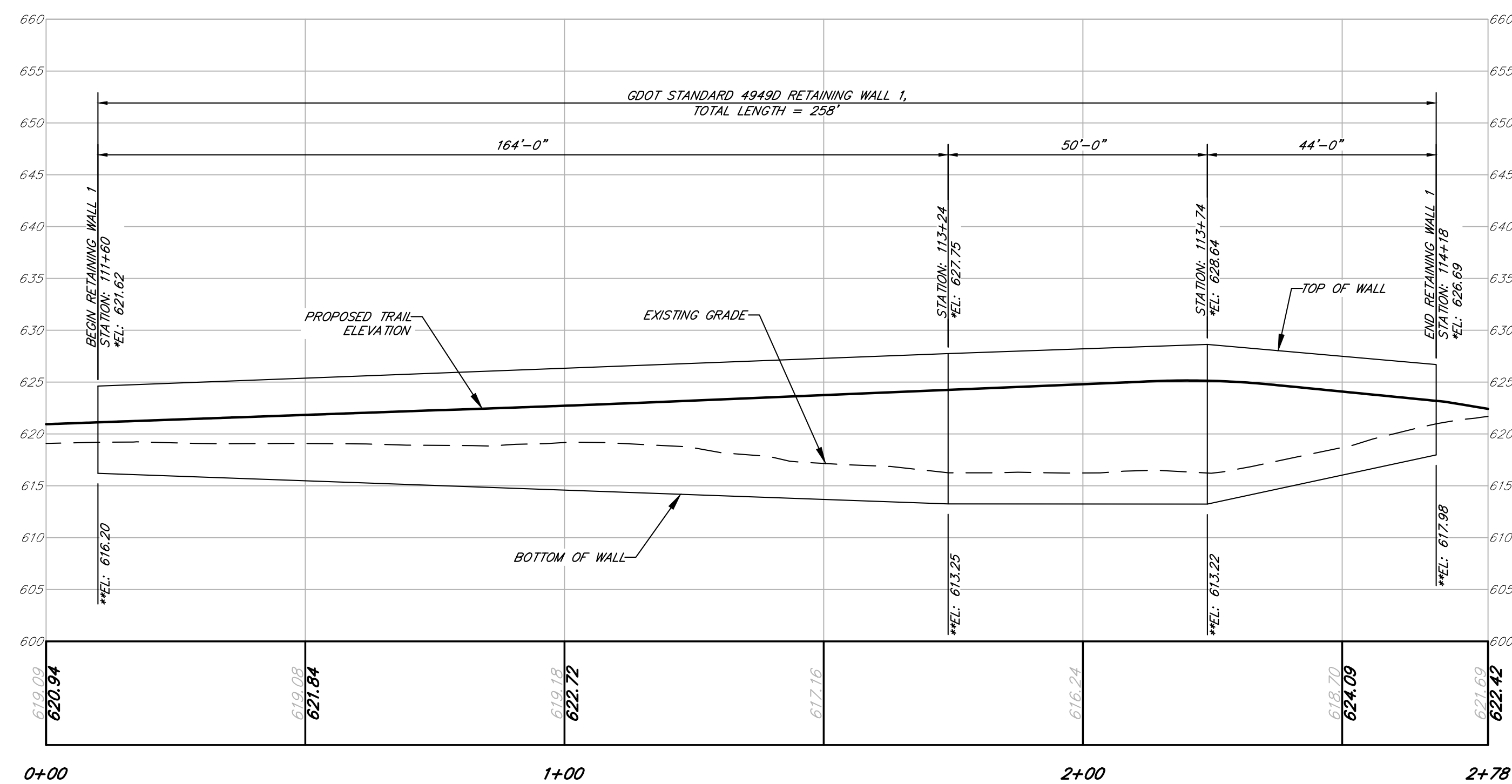
SHEET TITLE:
SIGNING AND MARKING PLAN

 SCALE IN FEET		
PROJECT INFORMATION		
JOB NO: 19023003		
DRAWN BY: KC		
CHECKED BY: VC		
DRAWING FILE: 19023003E.DWG		
DRAWING SCALE: 1" = 20'		
ORIGINAL RELEASE DATE: AUGUST 16, 2023		

Sheet:
26-004

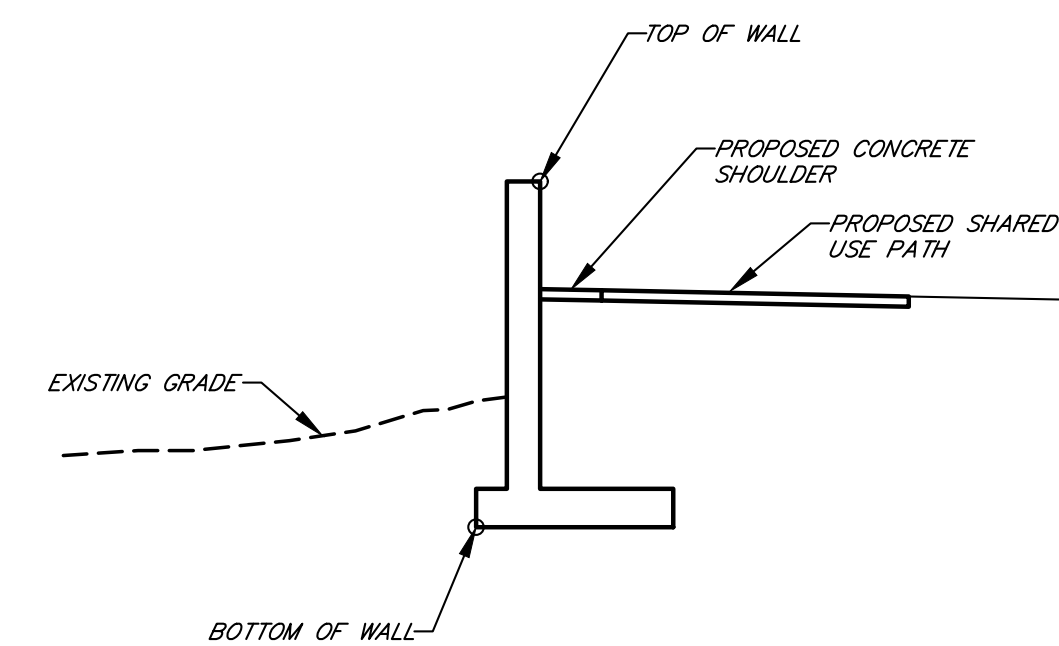
CONTRACTOR TO STRIPE THE TRAIL
CENTERLINE WITH 5" SKIP YELLOW
THERMOPLASTIC TRAFFIC STRIPE

- NOTES:
1. *ELEVATION & OFFSET GIVEN AT TOP OF WALL.
 2. **ELEVATION GIVEN AT BOTTOM OF WALL.
 3. WALL LOCATIONS ARE SHOWN ON PLAN SHEET.



RETAINING WALL 1 PROFILE

ALONG THE FACE OF WALL
SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=10'



RETAINING WALL 1
GDOT STANDARD 4949D

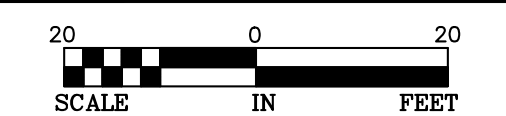
NOT TO SCALE

SHEET TITLE:

HEET TITLE:
RETAINING WALL ENVELOPES

PROJECT NAME

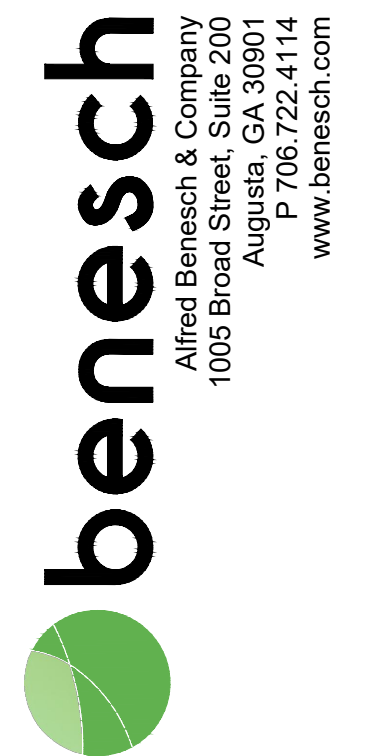
PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH



PROJECT INFORMATION

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
31-001

[illegible]

#	DESCRIPTION	100% N. MATCH
1	1 3/4" SQ FORERUNNER RAIL	Tulsa, OK 74116
2	1" SQ x .062" PICKET	1-888-323-8622
3	2 1/2" SQ POST	www.ameristarfence.com
4	BX301	

TOP VIEW

ELEVATION VIEW

SIDE VIEW

NOT TO SCALE



NOT TO SCALE

[illegible]

ATHENS-CLARKE
COUNTY, GA

HEET TITLE:
CONSTRUCTION DETAILS

PROJECT NAME
**MITCHELL BRIDGE
ROAD SHARED USE
PATH**

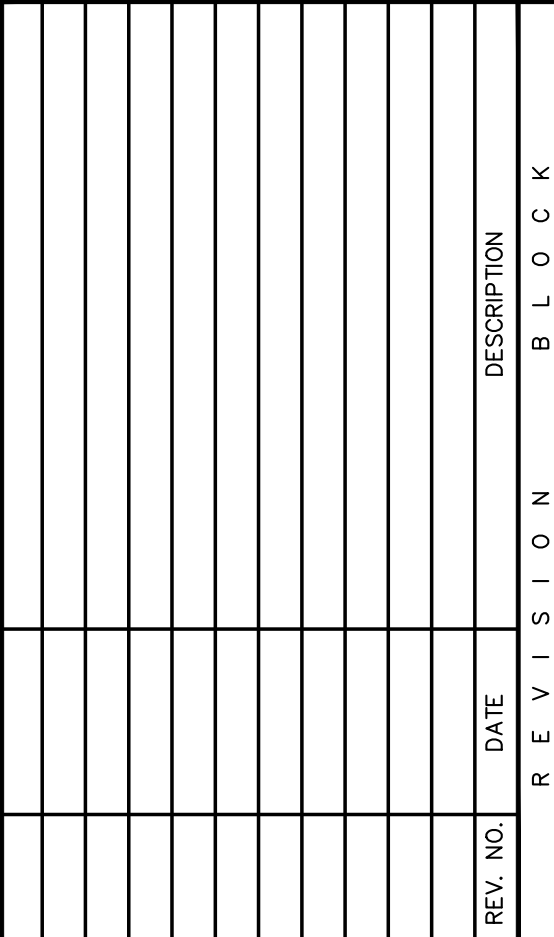
PROJECT INFORMATION	
JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	
AUGUST 16, 2023	

Sheet:
40-001



CONCRETE KWALL BARRIER, METHOD 2 DETAIL

NOT TO SCALE



ATHENS-CLARKE
COUNTY, GA

SHEET TITLE: CONSTRUCTION DETAILS

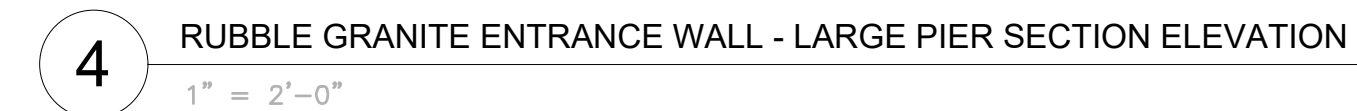
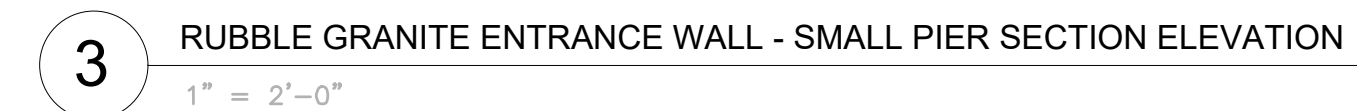
PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

SHEET TITLE:

PROJECT INFORMATION	
JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	
AUGUST 16, 2023	

Sheet:

40-002



PROJECT INFORMATION					
JOB NO: 19023003					
DRAWN BY: KC					
CHECKED BY: VC					
DRAWING FILE: 19023003E.DWG					
DRAWING SCALE: N.T.S.					
ORIGINAL RELEASE DATE: AUGUST 16, 2023					
Sheet:					
40-003					

1. Installation and regular maintenance of silt barriers (i.e. silt fences, hay bales, etc.) in all those areas where water exits the job site; and,
2. Installation and regular maintenance of a stone (1.5" - 3.5") geotextile-underlined construction exit (20' wide x 50' deep x 6" thick) to minimize the tracking of mud into the street; and,
3. Removal of mud from the street or adjacent property immediately following any such occurrence; and
4. Maintenance and removal of mud from detention ponds and sediment basins; and,
5. Conduct no land disturbing activities within 25 feet of the banks of streams, lakes, wetlands, etc. (i.e. "state waters") except in locations as indicated on the approved Soil Erosion and Sediment Control Plan, as approved by variance from EPD; and,
6. Institute erosion control measures and practices as indicated on the approved Soil Erosion and Sediment Control Plan.

Signature: _____ Date Signed: _____

Printed Name: _____ Title: _____

(PLAN PREPARER SIGNATURE AND DATE)

(PLAN PREPARER SIGNATURE AND DATE)

(PLAN PREPARER SIGNATURE AND DATE)

NPDES Certification:
Construction of this project will involve Land Disturbance equal to, or greater than, 1 acre, or is a part of a common development requiring an NPDES Permit, and must comply with the National Pollutant Discharge Elimination System (NPDES) Permit for construction activities (General Permit No. GAR 100002). The owner/contractor or authorized representative shall be responsible for preparation of the necessary Notice of Intent (NOI) and appropriate erosion, sediment and pollution control plan requirements that comply with all aspects of the NPDES Permit for construction activities.

ACKNOWLEDGEMENT

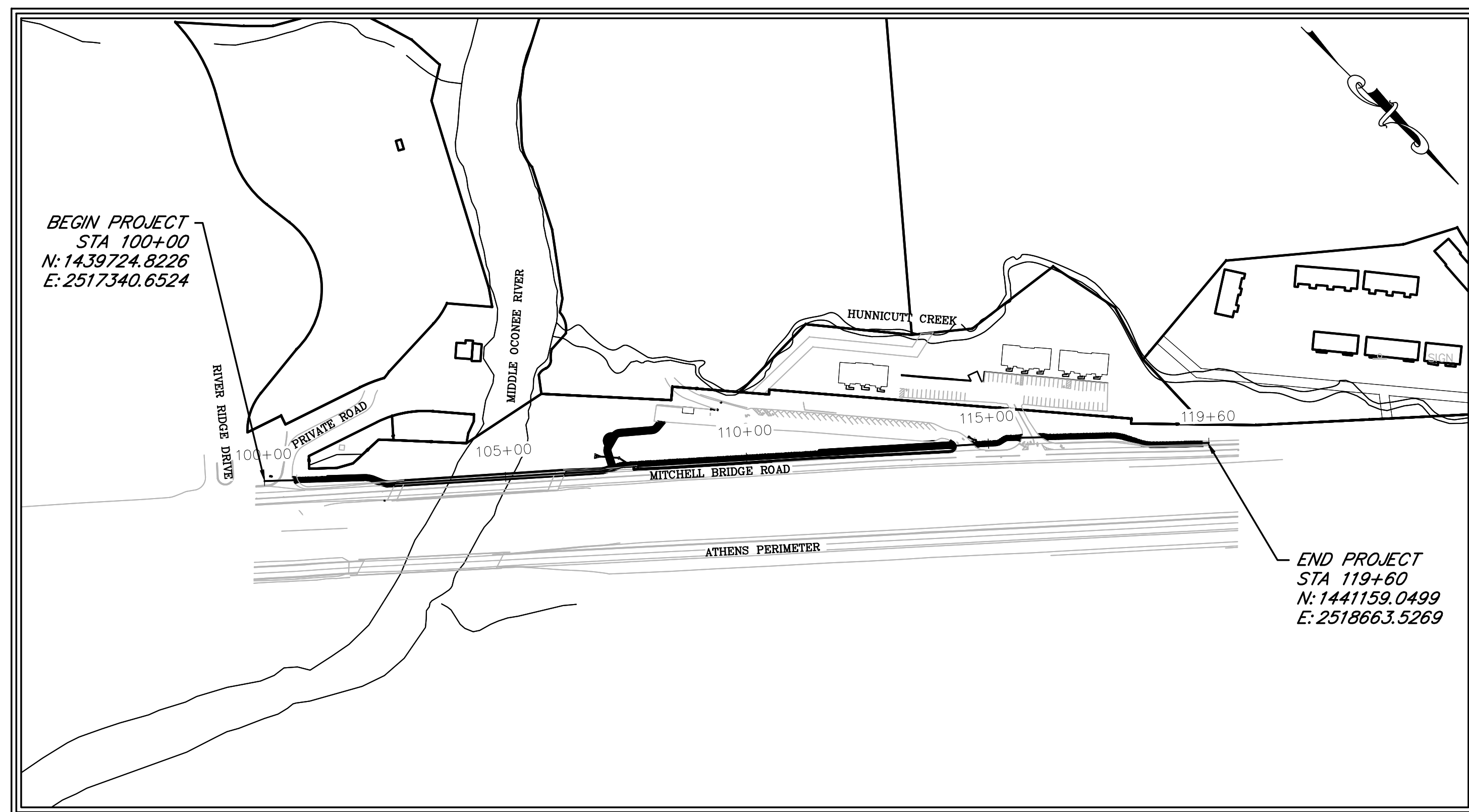
Owner / Contractor or Authorized Representative

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 CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL INFORMATION. THE ATTENTION OF THE BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

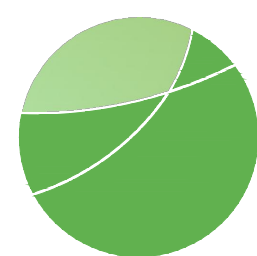
NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT"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

Erosion, Sediment & Pollution Control Plan and Monitoring Program MITCHELL BRIDGE ROAD SHARED USE PATH

FOR
ATHENS-CLARKE COUNTY
TRANSPORTATION & PUBLIC WORKS



N.T.S.



benesch

Alfred Benesch & Company
1005 Broad Street, Suite 200 Augusta, GA 30901
P 706.722.4114 - www.benesch.com

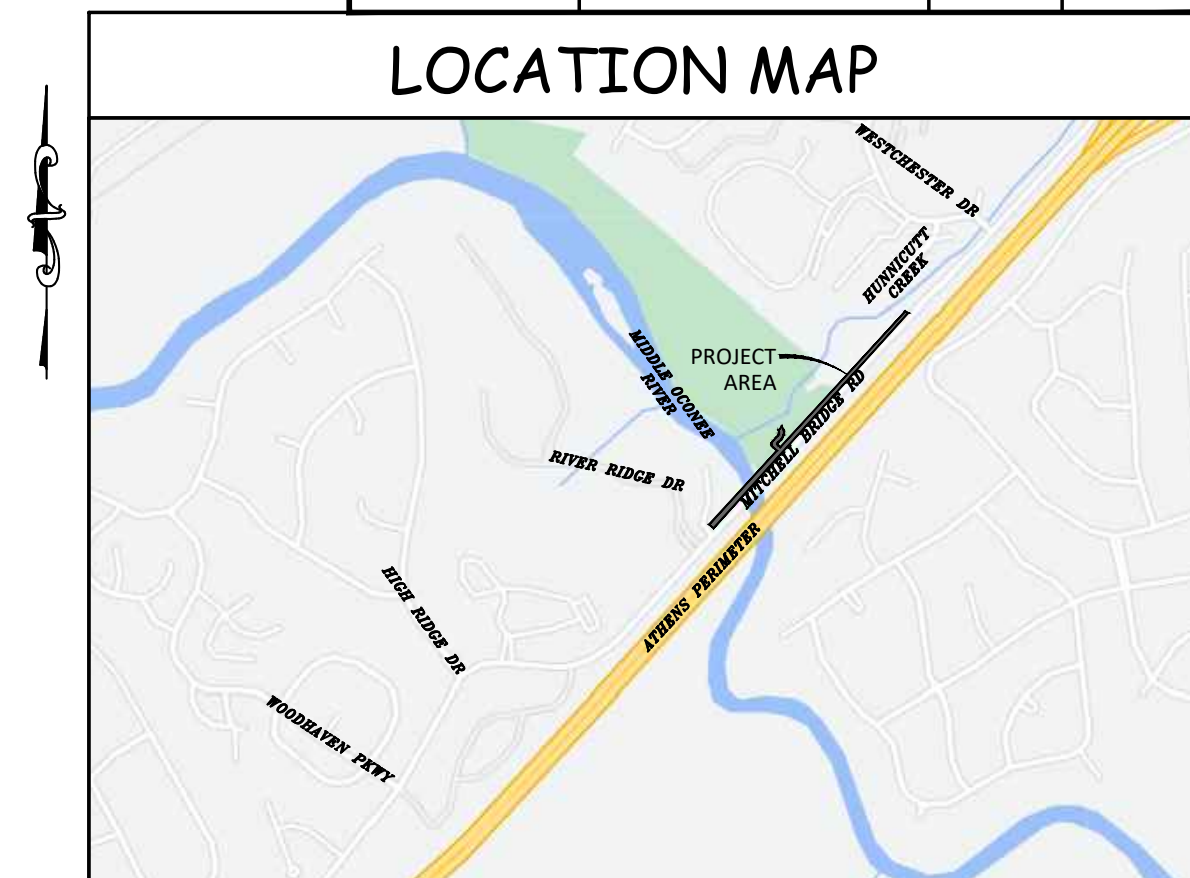
*DISTURBED AREA = 1.60 AC
A NOI IS REQUIRED*

NOTE:
PROJECT TO BE CONSTRUCTED AS PER GEORGIA
DOT STANDARD SPECIFICATIONS, 2021 EDITION
AND 2016 STANDARD SUPPLEMENTAL
SPECIFICATIONS, AS APPROVED BY THE FEDERAL
HIGHWAY ADMINISTRATION AND AS MODIFIED BY
CONTRACT DOCUMENTS.

DETENTION FACILITIES AND EROSION & SEDIMENT CONTROL MEASURES SHALL BE ESTABLISHED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES ON SITE. ALL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISH.

OWNER
24 HR. CONTACT
THENS-CLARKE COUNTY
DEREK DOSTER
COLLEGE AVE., SUITE 101
ATHENS, GA. 30603
706-613-3025

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		30	88



N.T.S.

NPDES PROJECT DATA

1. PRIMARY PERMITEE
CONTRACTOR: TBD
2. PROJECT DESCRIPTION
MITCHELL BRIDGE ROAD SHARED USE
PATH AND BEN BURTON TRAILHEAD
3. PROJECT DATA
TOTAL SITE AREA = 4.90 AC
TOTAL DISTURBED AREA = 1.60 AC
TOTAL IMPERVIOUS AREA = 0.44 AC

Begin	
Latitude	<u>33.955699 N</u>
Longitude	<u>83.438645 W</u>
End	
Latitude	<u>33.959610 N</u>
Longitude	<u>83.434254 W</u>



LEVEL II CERTIFIED DESIGN
PROFESSIONAL 000005294
EXPIRES 05-01-2026

SUBMITTED BY VICTOR A. CONOVER

[illegible]

THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPs FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

Plan	Included
Page #	Y/N

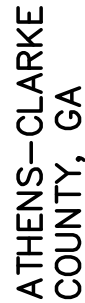
- ☐ **N** s. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at www.gaswcw.georgia.gov)

☐ **N** t. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the Plan.

☐ **N** u. Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with **Part IV.A.5** of the permit.
The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase.

☐ **N** v. Install Post Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in

Effective January 1, 2023



HEET TITLE:
ES&PC GENERAL NOTES

MITCHELL BRIDGE ROAD SHARED USE PATH

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:

51-002

The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities.

This project will use type "S" and "NS" silt fence, stone check dams, and inlet sediment traps as structural practices to prevent pollutants in storm water discharges. Permanent grass established/installed on all previous slopes.

I certify under penalty of law that this Plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision.

Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of
wrested vegetation or within 25-feet of the coastal marsh land buffer as measured from the jurisdictional determination line without
first acquiring the necessary variances and permits

The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation.

The Erosion Sedimentation and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project based on common construction methods and techniques. If the Contractor elects to alter the stage construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161 of the contract. Amendments to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional and approved by the Athens-Clarke County Transportation & Public Works Department.

The Contractor, the Certified Design Professional and the WECS shall carefully evaluate this plan prior to commencing land disturbing activities. Additional BMP's may be added per Special Provision 161 – Control of Soil Erosion and Sedimentation.

EPD General Permit GAR 100002 states that "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." However, the Department typically requires disturbed areas to be stabilized every 7 days. The construction documents, special provisions, or specifications may require mulching more often than 7 days.

All temporary and permanent vegetative practices including plant species, planting dates, seeding fertilizer, lime and mulching rates for this project can be found in section 700 of the current edition of the Department's specifications and other applicable contract documents, special provisions, or landscaping plans.

1. Contractor Mobilization and Installation of ES&PC Perimeter BMPs	3. General Trail Construction
2. Clearing and Grubbing	4. Final Stabilization

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of their pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR 100002 NPDES Permit utilizing by a Certified Design Professional. No separate payment will be made for water sampling of pump discharges.

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary or septic system regulations.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Departments Specifications.

The disturbed area within the drainage area is 1.60 acres. The disturbance activities consist of installing a new 5' wide concrete sidewalk. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location.

To control the sediment runoff within the project silt fence and inlet sediment traps will be installed as grading activities take place. Also the disturbed areas throughout construction will be kept to a minimum.

In order to prevent runoff from bypassing inlet sediment traps, a temporary berm shall be installed on the downstream side of all inlet sediment traps that are not located in a low point or an excavated sump. Temporary berms, when necessary, shall be a minimum of 18" high and constructed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

For building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on the site, provide cover, such as plastic sheeting or temporary roofs, to minimize exposure of these products to precipitation and to stormwater, or a similarly effective means designed to minimize the discharge of pollutants from these areas. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk to stormwater contamination, such as final products and materials intended for outdoor use.

State-water buffers, as defined by O.C.G.A. 12-7-1, are not impacted by this project.

The plans provided herein do not anticipate the storage of petroleum products onsite. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture and disposal of any petroleum products leaks or spills associated with the servicing, refueling or operation of any equipment utilized in the work. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with this plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

The Contractor is not allowed to store petroleum products onsite during the duration of this project.

(See drawing 55-001 for soil series map)

POST-CONSTRUCTION BMP'S

All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project may consist of vegetation, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, and vegetated swales/ditches where practical. The post-construction BMP's will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants into receiving waters.

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force storm water to flow through the silt fence. This technique, or configuration, is commonly referred to as J-hooks or spurs. The J-hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J-hooks shall be spaced in accordance with the Typical Location Details for silt fences/boled straw. Spacing for J-hooks shall not be less than 50 feet except as noted. Silt fences that are near the outlet of culverts, cross drains, and storm drains shall have a minimum of three (3) J-hooks on both sides of the structure at spacing not to exceed 30 feet. J-hooks shall be paid for as silt fence items per foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

See GDOT standard specs sections 161 and 700 and other contract documents for maintenance and stabilization measures.

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, waste courses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Waste materials shall not be discharged to waters of the state, except as authorized by a section 404 permit.

Non-storm water discharges require defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and Contract Documents.

Washout of the concrete mixer drum at the construction site is prohibited.


The contractor shall install a sign (minimum 4 feet x 8 feet) posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the plan can be viewed must be provided on the submitted NOL. The sign must remain on site and the plan must be available on the provided website until a NOT has been submitted.

The contractor shall use flocculants or coagulants and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Section III.D.1. of the NPDES permits.

The contractor shall conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Section IV.D.6.d. of the NPDES permits.

Certified personnel for primary permittees shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Section IV.D.4.a.(3)(a) – (c) of the permit.

<p>EROSION CONTROL 24 HR. CONTACT</p> <p>CONTRACTOR TO BE DETERMINED</p>	<p>THE CONTRACTOR SHALL BE THE PRIMARY PERMITTEE WITH SECONDARY PERMITTEES. SECONDARY PERMITTEES, IF ANY, SHALL BE THE RESPONSIBILITY OF THE PRIMARY PERMITTEE. THE PRIMARY PERMITTEE IS SOLELY RESPONSIBLE FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL FOR ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.</p>	<p>EXISTING SITE CONDITIONS</p> <p>EXISTING SITE CONSISTS MOSTLY OF GRADED GRASSSED OPEN AND FORESTED AREAS.</p>	<p>WETLAND DATA</p> <table border="1"> <tr> <td>TOTAL SITE AREA</td> <td>4.90</td> </tr> <tr> <td>TOTAL DISTURBED AREA</td> <td>1.60</td> </tr> <tr> <td>FIRE-DEVELOPED SITE "C" VALUE</td> <td>0.400</td> </tr> <tr> <td>FIRST-DEVELOPED SITE "C" VALUE</td> <td>0.495</td> </tr> <tr> <td>RECEIVING WATERS</td> <td>MIDDLE OCOONEE RIVER AND HUNNICUTT CREEK</td> </tr> <tr> <td>WETLAND AREA</td> <td>0.00 acres</td> </tr> <tr> <td>OUTFALL</td> <td>MIDDLE OCOONEE RIVER AND HUNNICUTT CREEK</td> </tr> </table>	TOTAL SITE AREA	4.90	TOTAL DISTURBED AREA	1.60	FIRE-DEVELOPED SITE "C" VALUE	0.400	FIRST-DEVELOPED SITE "C" VALUE	0.495	RECEIVING WATERS	MIDDLE OCOONEE RIVER AND HUNNICUTT CREEK	WETLAND AREA	0.00 acres	OUTFALL	MIDDLE OCOONEE RIVER AND HUNNICUTT CREEK
TOTAL SITE AREA	4.90																
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RECEIVING WATERS	MIDDLE OCOONEE RIVER AND HUNNICUTT CREEK																
WETLAND AREA	0.00 acres																
OUTFALL	MIDDLE OCOONEE RIVER AND HUNNICUTT CREEK																
<p>24 HR. CONTACT</p> <p>ATHENS-CLARKE COUNTY ATTN: DEREK POSTER 301 COLLAGE AVE. SUITE 101 ATHENS, GA 30603 706-613-3025</p>	<p>RECEIVING WATERS</p> <p>THE RECEIVING WATERS FOR THE PROJECT ARE THE MIDDLE OCOONEE RIVER AND HUNNICUTT CREEK. THE OUTFALL FOR HUNNICUTT CREEK IS THE MIDDLE OCOONEE RIVER; AND THE OUTFALL FOR MIDDLE OCOONEE RIVER IS THE OCOONEE RIVER WHICH OUTFALLS INTO LAKE OCOONEE.</p>	<p>PROPOSED DEVELOPMENT</p> <p>THE PROPOSED DEVELOPMENT WILL PLACE A 10' CONCRETE TRAIL AND TRAILHEAD WITH 2' GRADED GRASSSED SHOULDERS AND A MAX FILL AND/OR CUT SLOPE OF 2:1.</p>															

benesch Allred Benesch & Company 1005 Broad Street - Suite 200 Augusta, GA 30901 P 706.722.4114 www.benesch.com						
SHEET TITLE:	A THENS-CLARKE COUNTY, GA			REV. NO.	DATE	DESCRIPTION
ES&PC GENERAL NOTES PROJECT NAME: MITCHELL BRIDGE ROAD SHARED USE PATH		A THENS-CLARKE COUNTY, GA				
		 <i>LEVEL II CERTIFIED DESIGN PROFESSIONAL 0000052944 EXPIRES 05-01-2026</i>				
REVISION BLOCK						
Sheet: 51-003						

INSPECTIONS (NPDES GENERAL PERMIT NO. GAR100002, SEC. IV.D.4.):

a. PERMITTEE REQUIREMENTS.

- (1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL, PROVIDED BY THE PRIMARY PERMITTEE, SHALL INSPECT:
- (a.) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND

(b.) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND,

(c.) MEASURE RAINFALL ONCE EACH 24-HOUR PERIOD AT THE SITE.

THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS

- (2). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS OF THE END OF A STORM EVENT THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST):
- (a.) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION;

(b.) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION;

(c.) STRUCTURAL CONTROL MEASURES.

EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.a.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

- (3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E. UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- (4). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

- (5). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(4) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

DETAILS ON COMPLETE REQUIREMENTS OF OF SAMPLING FREQUENCY AND REPORTING SAMPLING RESULTS:

SAMPLING FREQUENCY (NPDES GENERAL PERMIT NO. GAR 100001, SEC. IV.D.6.d.):

- (1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES
- (a). THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION;

(b). THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

SAMPLING FREQUENCY (NPDES GENERAL PERMIT NO. GAR 100002, SEC. IV.D.6.d.): CONT'D.

- (2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
- (3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:

- (a). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * (MONDAY THROUGH FRIDAY, 8:00 A.M. TO 5:00 P.M., AND SATURDAY, 8:00 A.M. TO 5:00 P.M., EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;
- (b). IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * THAT OCCURS EITHER 90-DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHICHEVER COMES FIRST;
- (c). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES 0.5 INCH DURING NORMAL BUSINESS HOURS * UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

REPORTING (NPDES GENERAL PERMIT NO. GAR100002, SEC. IV.E.):

THE APPLICABLE PERMITTEE'S ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

- (1). ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

- (2). ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- (a). THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
- (b). THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- (c). THE DATE(S) ANALYSES WERE PERFORMED;
- (d). THE TIME(S) ANALYSES WERE INITIATED;
- (e). THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
- (f). REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND,
- (g). THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
- (h). RESULTS WHICH EXCEED 1,000 NTU SHALL BE REPORTED AS "EXCEEDS 1,000 NTU."

COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF GAR 100002:

- (1). THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

- (a). A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
- (b). A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
- (c). THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;

COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F. OF GAR 100002:

- (d). A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
- (e). A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT;
- (f). A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND,
- (g). DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(1)(c) OF THIS PERMIT.

- (2). COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THE NPDES PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION:

SAMPLE TYPE:

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001"; AND, GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. ANALYTICAL METHODS USED FOR THE COLLECTION AND ANALYSIS OF SAMPLES FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL USE, AT A MINIMUM, THE GUIDELINES SET FORTH IN PART IV.D.6.a. AND PART IV.D.6.b. OF THIS PERMIT.

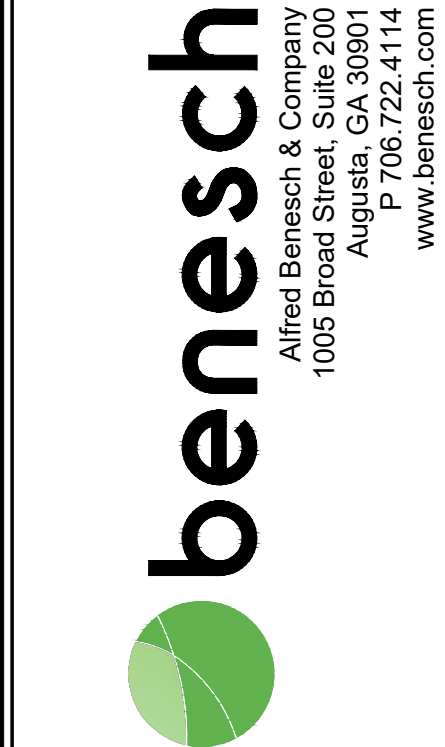
SAMPLING POINTS:

FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.c.(2) OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE RECEIVING WATER(S) OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE MINIMUM GUIDELINES SET FORTH IN PART IV.D.6.c.(1). OF THIS PERMIT. RECEIVING WATER(S) MUST HAVE AN UPSTREAM AND A DOWNSTREAM. SEE SHEET 51-005 FOR A TABLE OF REPRESENTATIVE SAMPLING LOCATIONS.

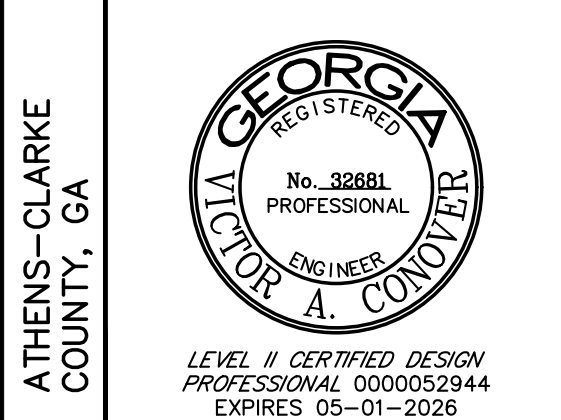
RETENTION OF RECORDS (NPDES GENERAL PERMIT NO. GAR 100002, SEC IV.E.):

- (1). THE PRIMARY PERMITEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

- (a.) A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
- (b.) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
- (c). THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT.
- (d). A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
- (e.) A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a OF THIS PERMIT;
- (f.) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2 OF THIS PERMIT; AND
- (g.) DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a(2). OF THIS PERMIT.



R E V I S I O N		B L O C K	
REV. NO.	DATE	DESCRIPTION	



SHEET TITLE:
ES&PC GENERAL NOTES

PROJECT NAME:
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION	
JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet:
51-004

No alternative or additional BMPs will be used on this project.

All outfalls are located within the watershed of an impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish community) and/or "Bio M" (impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

The total site size is 4.90 acres. Representative sampling is utilized on this project.

NOTE: THE TOTAL SITE AREA IS 4.90 ACRES						
SAMPLING INFORMATION						
PRIMARY SAMPLED FEATURE	LOCATION (STATION AND OFFSET)	NAME OF RECEIVING WATER	SAMPLING TYPE (OUTFALL OR RECEIVING WATER)	WARM OR COLD WATER STREAM	APPENDIX B NTU VALUE (OUTFALL SAMPLING ONLY)	LOCATION DESCRIPTION
1	104+22, LT	MIDDLE OCONEE RIVER	RECEIVING WATER	WARM	--	UPSTREAM
2	104+22, RT	MIDDLE OCONEE RIVER	RECEIVING WATER	WARM	--	DOWNSTREAM

Due to the project location, the project outfalls include substantial offsite water passing through the project via existing culverts or as sheet flow. The structural practices to be implemented on this project have been applied to meet the required storage based on the project limits.

RIP-RAP OUTLET FLOW CHARACTERISTICS:						
STRUCTURE #	DIAMETER	FLOW RATE (CFS)	VELOCITY (FPS)	OUTLET DEPTH (FT)	FROUDE NUMBER	TAILWATER CONDITION
A1	18"	5.18	12.61	0.42	4.029	< 0.5 DIA

[illegible]

ATHENS-CLARKE
COUNTY, GA



LEVEL II CERTIFIED DESIGN
PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE:

ES&PC GENERAL NOTES

PROJECT NAME

MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:

51-005

Ds3 DISTURBED AREA STABILIZATION (with permanent vegetation)

A. Ground Preparation

Prepare the ground by plowing under any temporary grass areas and preparing the soil as follows:

- Slopes 3:1 or Flatter
On slopes 3:1 or flatter, plow shoulders and embankment slopes to between 4 in and 6 in deep. Plow front and back slopes in cuts to no less than 6 in deep. After plowing, thoroughly disk the area until pulverized to the plow depth.
- Slopes Steeper Than 3:1
Serrate slopes steeper than 3:1 according to Plan details when required. On Embankment slopes and cut slopes not requiring serration (sufficient as determined by the Engineer), prepare the ground to develop an adequate seed bed using any of the following methods as directed by the Engineer:
 - Plow to a depth whatever depth is practicable.
 - Use a spiked chain.
 - Walk with a cleated track dozer.
 - Scarify.
 - Disking cut slopes and fill slopes in not required.
- All Slopes
 - Obstructions
Remove boulders, stumps, large roots, large clods, and other objects hat interfere with grassing or may slide into the ditch.
 - Topsoil
Spread topsoil stockpiled during grading evenly over cut and fill slopes after preparing the ground. Push topsoil from the top over serrated slopes. Do not operate equipment on the face of completed serrated cuts.

B. Grassing Adjacent To Existing Lawns

When grassing areas adjacent to residential or commercial lawns, the Engineer shall change the plant material to match the type of grass growing on adjacent lawn. If the Engineer believes bituminous treated mulch would harm other portions of the work, bituminous treated mulch may be substituted with 1,500 lbs/acre of wood fiber mulch with tackifier.

C. Temporary Grassing

Apply temporary grassing according to DS1 or DS2 specifications and the following:

- Determine lime requirements by a laboratory test.
- Add mulch only if temporary grass does not provide adequate mulch to meet the requirements of Section G. Mulching. In March or April of the year following planting and as soon as the weather is suitable, replace all areas of temporary grass with permanent grass by plowing or overseeding using the no-till method. If the no-till method is used, ensure that temporary grass is less than 3-inches in height (this may be achieved by mowing. Additional mulch will be required only if the temporary grass does not provide adequate mulch to meet the requirements of Section G. Mulching.

D. Applying Agricultural Lime and Fertilizer

Apply and mix lime and fertilizer as follows:

- Agricultural Lime
Uniformly spread agricultural lime on the ground at the approximate rate determined by the laboratory soil test or at a rate on 1 to 2 tons per acre.
- Fertilizer Mixed Grade
Uniformly spread fertilizer selected according to Table 2 Fertilizer Requirements for Temporary Vegetation. If using a higher analysis fertilizer with hydroseeding, apply it at the same rate per acre as the standard fertilizer.
- Mixing
Before proceeding, uniformly work the lime and fertilizer into the top 4 in of soil using harrows, rotary tillers, or other equipment acceptable to the Engineer. On cut slopes steeper than 3:1, other than serrated slopes, reduce the mixing depth to the maximum practical septh as determined by the Engineer. Omit mixing on serrated slopes.

E. Seeding

Following Table 3 - Common Names and Botanical Names For Approved Seed Types. Whenever seeds are specified by the common names, the strains indicated by their botanical name apply.

- Inoculation of Seed
Inoculate each kind of leguminous seed separately with the appropriate commercial culture according to the manufacturer's instructions for the culture. When hydroseeding, double the inoculation rate. Protect inoculated seed from the sun and plant it the same day as inoculated.
- Sowing
Weather permitting, sow seed within 24 hours after preparing the seed bed and applying the fertilizer and lime, or sow seed with in 24 hours after applying mixed in-place mulch. Sow seed uniformly at the rates specified in Table 1 - Seeding Table, Seeding Rates and Planting Dates. Use approved mechanical seed drill, rotary hand seeders, hydraulic equipment, or other equipment to uniformly apply seed. Do not distribute by hand. To distribute the seeds evenly sow seed types separately, except for similarly sized and weighted seeds. They may be mixed and sown together.

- Rolling
Roll seeded areas before applying mulch, except on steep slopes where rollers cannot operate satisfactorily. On slopes inaccessible to compaction equipment, cover the seeds by dragging spiked chains over them or by using other methods. Do not sow during windy weather, when the prepared surface is crusted, or when the ground is frozen, wet, or otherwise nonfillable.
- Overseeding
Temporary grass areas that were prepared in accordance with Section A. Ground Preparation, shall be overseeded using no-till method. The no-till method is defined by planting permanent grass seeds using a drill-type seeder over existing temporary grass without plowing or filling soil in accordance with Section C - Temporary Grassing. This method shall be shown on the Plans or directed by the Engineer before implemented.

F. Hydroseeding

Hydroseeding may be used on any grassing area. Under this method, spread the seed, fertilizer, and wood fiber mulch in the form of a slurry. Seeds of all sizes may be mixed together. Inoculate the seeds at double the rate for seeds not being hydroseeded. Apply hydroseeding as follows.

- Use wood fiber mulch as a metering agent and seed bed regardless of which mulching method is chosen. Apply wood fiber mulch at approximately 1,500 lbs/acre.
- Prepare the ground for hydroseeding as for conventional seeding in Section A. Ground Preparation.
- Use specially designed equipment to mix and apply the slurry uniformly over the entire seeding area.
- Agitate the slurry mixture during application.
- Discharge slurry within one hour after being combined in the hydroseeder. Do not hydroseed when winds prevent an even application.
- Closely follow the equipment manufacturer's direction unless the Engineer modifies the application method.
- Mulch the entire hydroseeded area according to Section F - Hydroseeding, Subsection 1 and Section G - Mulching.

G. Mulching

Except as noted in Section B - Grassing Adjacent to Existing Lawns and Section C: Temporary Grassing, apply mulch immediately after seeding areas as follows: Areas with permanent grass seed and covered with slope mats or blankets will not require mulch. Evenly apply straw or hay mulch between 3/4 in and 1-1/2 in deep, according to the texture and moisture content of the mulch material. Mulch shall allow sunlight to penetrate and air to circulate as well as shade the ground, reduce erosion, and conserve soil moisture. If the type of mulch is not specified

- Mulch with Binder
Apply mulch with binder regardless of whether using ground or hydroseeding equipment for seeding.
 - Mulch uniformly applied manually or with special blower equipment designed for the purpose. When using a blower, thoroughly loosen baled material before feeding it into the machine so that it is uniformly coated with binder and broken up.
 - After distributing the mulch initially, redistribute it to bare or inadequately covered areas in clumps dense enough to prevent new grass from emerging. Do not apply mulch on windy days.
 - Apply enough binder to the mulch to hold it in place. Immediately replace mulch that blows away. When using a power blower to distribute the mulch, spray the binder onto the mulch as the mulch is ejected from the machine. If distributing the mulch by hand, immediately apply the binder uniformly over the mulched areas.
Use on of the following binders:
 - Emulsified asphalt, SS-1h or SS-1: The public, adjacent property, bridges, pavements, curbs, sidewalks, and other existing structures shall be protected from discoloration by the asphalt. Correct discoloration damage at no expense to the Department.
 - Tackifier: Use a tackifier listed in GDOT's Laboratory Qualified Products Manual at the manufacturer's recommended rates.
- Mixed-in-Place Mulch
Apply mixed-in-place mulch on flat areas or slopes 3:1 or less and treat as follows:
 - Immediately work the mulch into the soil with appropriate equipment to produce a loose soil and mulch mixture 3 in to 3.5 in deep.
 - After mixing mulch and soil and restoring areas to line and grade, seed as specified in this Section.
- Walked-in-Mulch
Apply walked-in-mulch on slopes ranging in steepness from 5:1 to 2:1 and treat as follows:
 - Immediately walk it into the soil with a cleated track dozer. Make dozer passes vertically up and down the slope.
 - Where walked-in mulch is used, do not roll or cover the seeds as specified in Section E - Seeding, Subsection 3.
- Application of Nitrogen
Apply nitrogen at approximately 50 lbs/acre when specified by the Engineer after plants have grown to 2 in high. One application is mandatory and must be applied before Final acceptance apply nitrogen with mechanical hand spreaders or other approved apreaders capable of uniformly covering the crassed areas. Do not apply nitrogen on windy days of when foliage is damp. Do not apply nitrogen between October 15 and March 15.

TABLE 1 - SEEDING TABLE, SEEDING RATES, AND PLANTING DATES

TABLE I - SEEDING TABLE, SEEDING RATES, AND PLANTING DATES										
	POUNDS OF SEED PER ACRE									
PLANTING DATES	RYE GRASS, MILLET, CEREAL GRASS (OATS)	COMMON BERMUDA GRASS (HULLED)	COMMON BERMUDA GRASS (UNHULLED)	TALL FESCUE	WEEPING LOVE GRASS	WHITE OR CRIMSON CLOVER	CROWN VETCH	SCARIFIED INTERSTATE LESPEDEZA	UNSCARIFIED INTERSTATE LESPEDEZA	REQUIRED PERMANENT PLANTING
March 1 - July 31	-	10	-	-	-	-	-	-	-	COMMON BERMUDA GRASS
October 1 - February 28	-	-	10	-	-	-	-	-	-	
September 1 - February 14	15	-	-	-	-	-	-	-	-	
November 15 - January 31	-	-	-	-	-	6	-	-	-	
Plant these combinations on back slopes, fill slopes and areas which will not be subject to frequent mowing.										
March 15 - May 31	-	-	-	-	4	-	-	60	-	INTERSTATE LESPEDEZA OR CROWN VETCH
September 1 - October 15	-	-	-	30	-	-	15	-	75	

TABLE 2 - FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS/ACRE)	N 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
September 1 - February 14	First	6-12-12	1500	0-50
	Second	6-12-12	1000	---
	Maintenance	0-10-10	400	---
November 15 - January 31	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30
March 1 - July 31	First	6-12-12	1500	50
	Second	0-10-10	1000	---
	Maintenance	0-10-10	400	---

TABLE 3 - COMMON NAMES AND BOTANICAL NAMES FOR APPROVED SEED TYPES

COMMON NAMES	BOTANICAL NAMES	COMMON NAMES	BOTANICAL NAMES
Annual Ryegrass	Lolium multiflorum	**Lespedeza Korean	Lespedeza stipulacea Maxim
Bermuda Grass, Common Hulled and Unhulled	Cynodon dactylon	Pensacola Bahiagrass	Paspalum notatum, var. Pensacola
**Crimson Clover	Trifolium incarnatum Var. Reseeding	Tall Fescue	Festuca arundinacea
**Lespedeza Virgata	Lespedeza Ambro Virgata	Weeping Love Grass	Eragrostis curvula
**Lespedeza Sericea	Lesoedeza cuneta, Var. Sericea	**White Dutch Clover	Trifolium repens
**Lespedeza Serala	Lespedeza cuneta, Var. Serala	**Crown Vetch	Coronilla Varia
**Lespedeza Interstate	Lespedeza cuneta, Var. Interstate	Inland Sea Oats	Chasmanthium Latifolium
**Requires inoculation.			



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ATHENS-CLARKE COUNTY, GA



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PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE:
ES&PC GENERAL NOTES


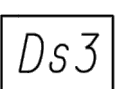
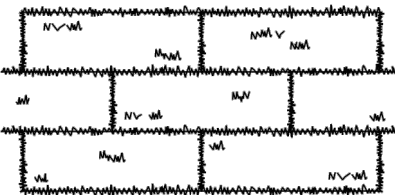

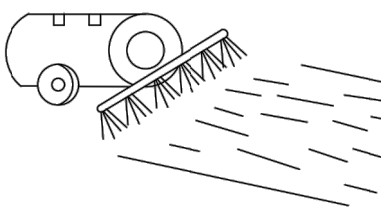
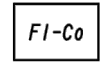
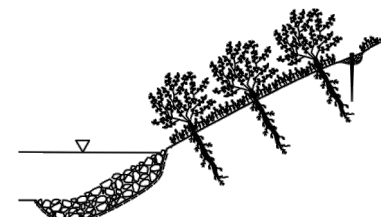

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:

51-006

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING		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.
	SECTION 700	SYMBOL 	
Ds4	SODDING		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.
	CONSTRUCTION DETAIL D-54 SECTION 700, 890	PATTERN 	THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
FI-Co	FLOCCULANTS COAGULANTS		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!
	SECTION 163, 700, 895	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		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.
	SECTION 702	PATTERN 	

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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 3/2/2017 			EROSION CONTROL LEGEND UNIFORM CODE SHEET SHEET 1 OF 7		
CHECKED: G. EAGLETON		DATE: 01/01/16		DRAWING No.	
DACK CHECKED:		DATE:		52-0001	
CORRECTED:		DATE:			
VERIFIED:		DATE:			

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**ATHENS-CLARKE
COUNTY, GA**



LEVEL II CERTIFIED DESIGN
PROFESSIONAL 000005294
EXPIRES 05-01-2026

HEET TITLE:
ES&PC LEGEND

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION
JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
52-001

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P.I. No.

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 SPLASH PAD. 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:
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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".

7/23/2015
GPM

--GDOT--

NO SCALE

REVISION DATES

3/2/2017		
11/28/2018		

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 2 OF 7

CHECKED:	D. ENGLETON	DATE:	01/01/16	DRAWING No.
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52-0002

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ATHENS-CLARKE
COUNTY, GA

LEVEL II CERTIFIED DESIGN
PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE:
ES&PC LEGEND

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:
52-002

7/31/2015 GPLANO SCALE

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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".

EROSION CONTROL LEGEND



SHEET TITLE:
ES&PC LEGEND

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

Sheet:
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P. I. No.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY		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.
	SECTION 163	LINE CODE 	THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE		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.
	SECTION 163	LINE CODE 	THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
DI-1	DIVERSION BERM		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.
	CONSTRUCTION DETAIL D-47 SECTION 205	LINE CODE 	
DI-2	DIVERSION CHANNEL		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.
	SECTION 205	LINE CODE 	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.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE		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'.
	CONSTRUCTION DETAIL D-19 SECTION 163	LINE CODE 	THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE		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).
	CONSTRUCTION DETAIL D-9 SECTION 441	LINE CODE 	
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE		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).
	CONSTRUCTION DETAIL D-9 SECTION 441	LINE CODE 	
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE		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).
	GA STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577	LINE CODE 	
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE		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).
	GA STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577	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'.

NO SCALE

REVISION DATES				EROSION CONTROL LEGEND			
3/2/2017				UNIFORM CODE SHEET			
				SHEET 4 OF 7			
CHECKED:	D. EAGLETON	DATE:	01/01/18	DRAWING No.			
BACKCHECKED:		DATE:					
CORRECTED:		DATE:					
VERIFIED:		DATE:					

52-0004


NO SCALE

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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 5 OF 7		
3/2/2017					
			CHECKED: G. EAGLETON	DATE: 01/01/16	DRAWING No.
			BACKCHECKED:	DATE:	52-0005
			CONNECTED:	DATE:	
			VERIFIED:	DATE:	
				DATE:	

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. 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".

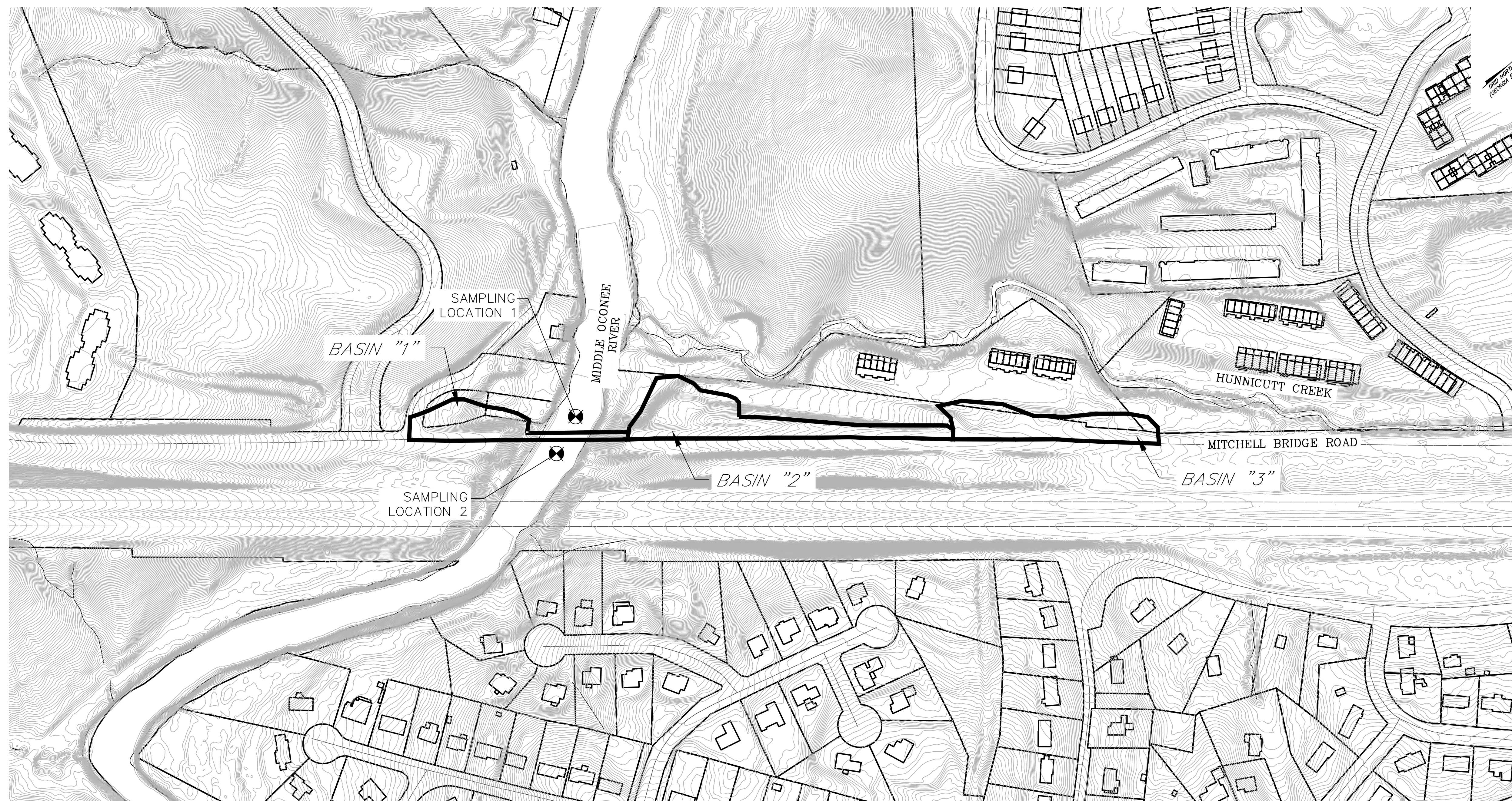
<div><div><div>benesch</div></div><div>Athens-Benesch & Company 1005 Broad Street, Suite 200 Augusta, GA 30901 P 706.722.4114 www.benesch.com</div></div>											
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Tc-S

DESCRIPTION

NO SCALE

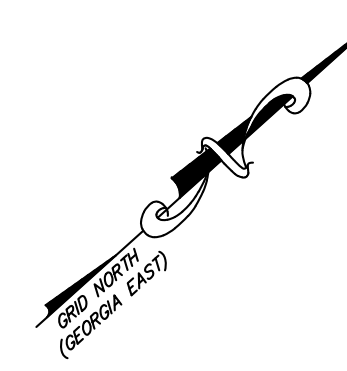
CORRECTED:		DATE:	
VERIFIED:		DATE:	



OUTFALL	LOCATION	SIZE	DRNG AREA (AC)	PRE CONST. C VALUE	POST CONST. C VALUE	RECEIVING WATER
1	SHEET FLOW	N/A	0.70	0.44	0.49	MIDDLE OCONEE RIVER
2	S.E.S STA: 107+12	18" RCP	1.30	0.37	0.50	MIDDLE OCONEE RIVER
3	SHEET FLOW	N/A	0.93	0.42	0.49	HUNNICUTT CREEK



SHEET TITLE:		DRAINAGE MAP AND SAMPLING LOCATION MAP	
PROJECT NAME:		MITCHELL BRIDGE ROAD SHARED USE PATH	
150 0 150 SCALE IN FEET			
PROJECT INFORMATION			
JOB NO: 19023003			
DRAWN BY: KC			
CHECKED BY: VC			
DRAWING FILE: 19023003E.DWG			
DRAWING SCALE: 1" = 150'			
ORIGINAL RELEASE DATE: AUGUST 16, 2023			
Sheet: 53-001			



MATCHLINE SHEET 54-003 (STA: 110+00)

PHASE I DISTURBED AREA = 0.18 AC

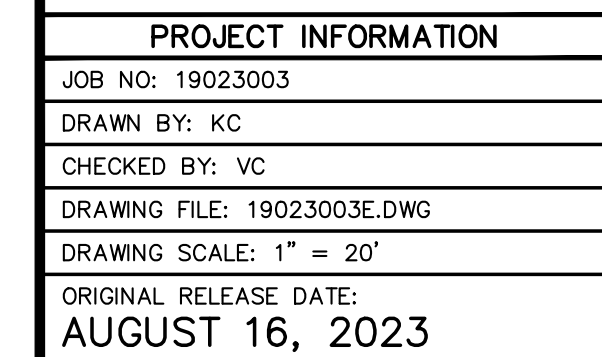
DETENTION FACILITIES AND EROSION & SEDIMENT CONTROL MEASURES SHALL BE ESTABLISHED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES ON SITE. ALL EROSION & SEDIMENT CONTROL FACILITIES SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
4. CONTRACTOR TO FIELD LOCATE CONSTRUCTION OUTLET AS REQUIRED.

Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING
Ds4	SOD
Du	DUST CONTROL ON DISTURBED AREA
Ss	SLOPE STABILIZATION
Cd	CHECK DAM
Rd	ROCK FILTER DAM
Sd1-Ns	SILT FENCE TYPE A
Sd1-S	SILT FENCE TYPE C
Sd2-P	CURB INLET SEDIMENT TRAP
St	RIP-RAP
Co	CONSTRUCTION OUTLET

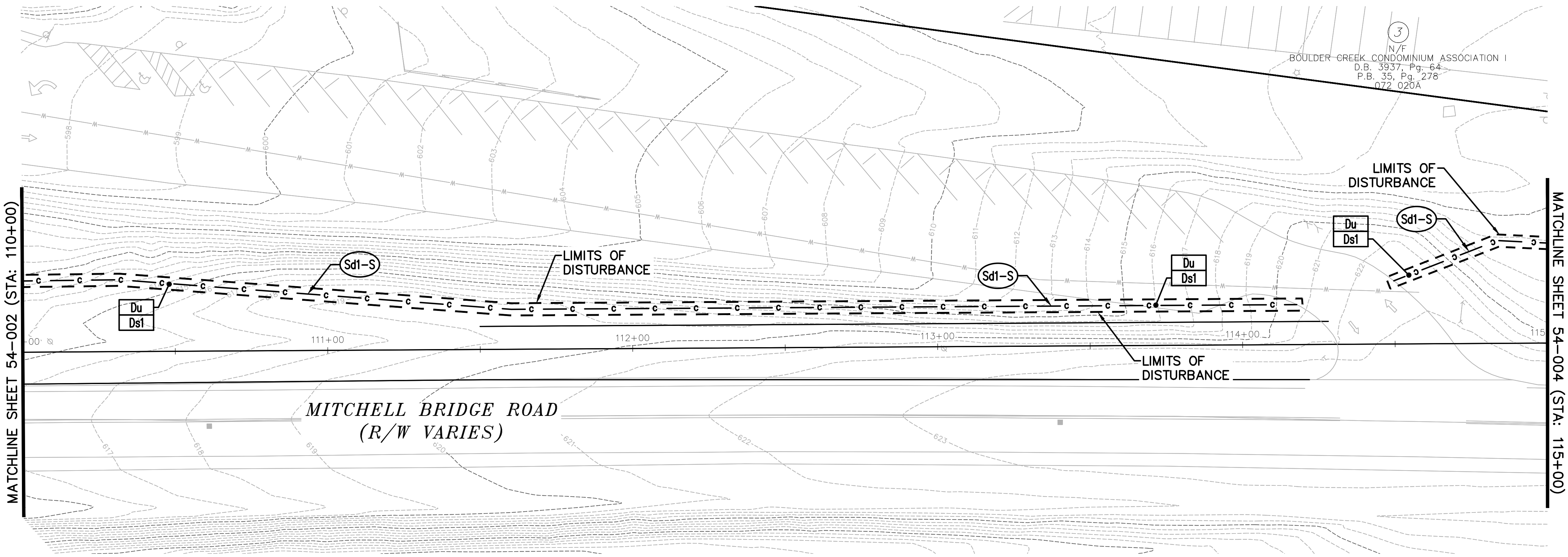
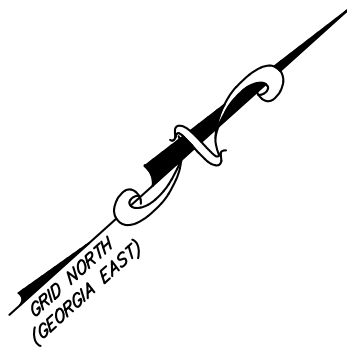


PROJECT NAME
**MITCHELL BRIDGE
ROAD SHARED USE
PATH**



Sheet:
54-002

[illegible]



MITCHELL BRIDGE ROAD
(R/W VARIES)

PHASE I DISTURBED AREA = 0.18 AC

"NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25- OR 50-FOOT UNDISTURBED STREAM BUFFERS, AS MEASURED FROM THE POINT OF WRESTED VEGETATION, WITHOUT FIRST OBTAINING THE NECESSARY VARIANCES AND PERMITS."

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- NOTE:**
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EROSION CONTROL LEGEND

- | | |
|---------------|--------------------------------|
| Ds1 | MULCH |
| Ds2 | TEMPORARY GRASSING |
| Ds3 | PERMANENT GRASSING |
| Ds4 | SOD |
| Du | DUST CONTROL ON DISTURBED AREA |
| Ss | SLOPE STABILIZATION |
| Cd | CHECK DAM |
| Rd | ROCK FILTER DAM |
| Sd1-NS | SILT FENCE TYPE A |
| Sd1-S | SILT FENCE TYPE C |
| Sd2-P | CURB INLET SEDIMENT TRAP |
| St | RIP-RAP |
| Co | CONSTRUCTION OUTLET |

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REV. NO.	DATE	DESCRIPTION	BLOCK

ATHENS-CLARKE COUNTY, GA

LEVEL II CERTIFIED DESIGN
PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE:
EROSION CONTROL PLAN -
PHASE I

PROJECT NAME:
MITCHELL BRIDGE
ROAD SHARED USE
PATH

SCALE
IN FEET

PROJECT INFORMATION

JOB NO: 19023003

DRAWN BY: KC

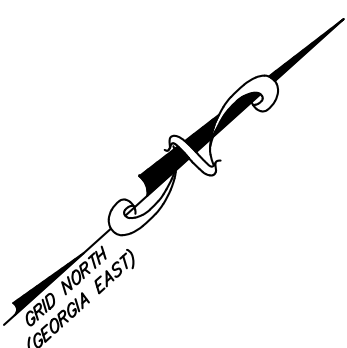
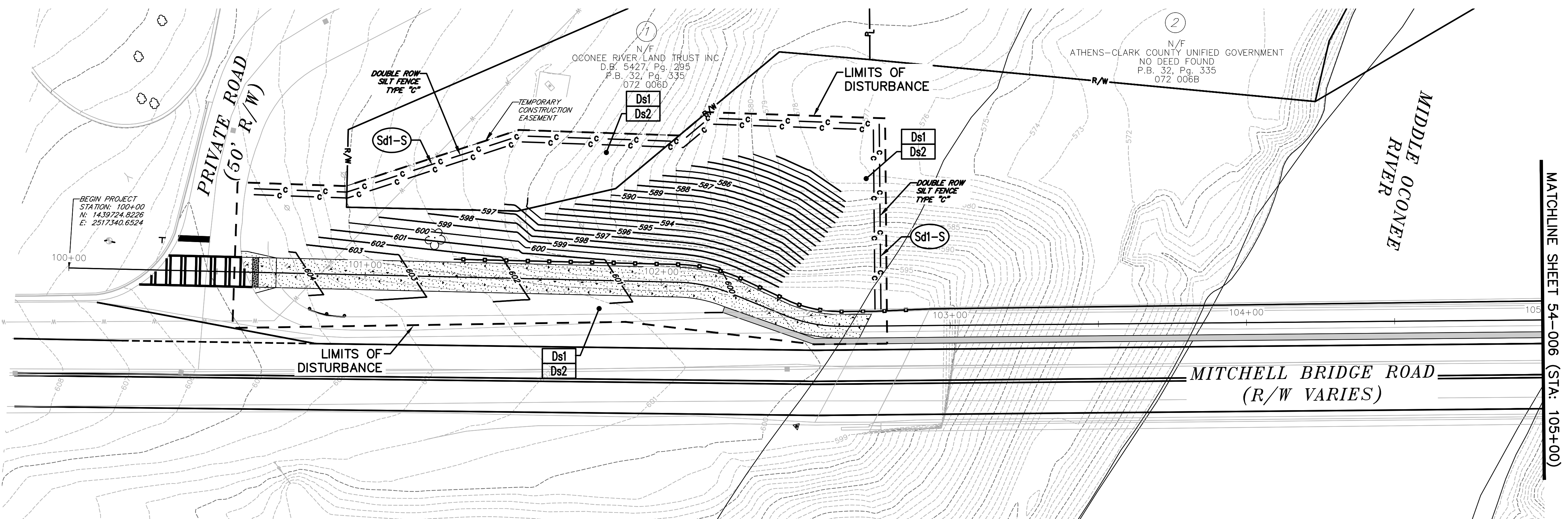
CHECKED BY: VC

DRAWING FILE: 19023003E.DWG

DRAWING SCALE: 1" = 20'

ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:
54-003



"NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25- OR 50-FOOT UNDISTURBED STREAM BUFFERS, AS MEASURED FROM THE POINT OF WRESTED VEGETATION, WITHOUT FIRST OBTAINING THE NECESSARY VARIANCES AND PERMITS."

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 4. CONTRACTOR TO FIELD LOCATE CONSTRUCTION OUTLET AS REQUIRED.

EROSION CONTROL LEGEND

- Ds1** MULCH
- Ds2** TEMPORARY GRASSING
- Ds3** PERMANENT GRASSING
- Ds4** SOD
- Du** DUST CONTROL ON DISTURBED AREA
- Ss** SLOPE STABILIZATION
- Cd** CHECK DAM
- Rd** ROCK FILTER DAM
- Sd1-NS** SILT FENCE TYPE A
- Sd1-S** SILT FENCE TYPE C
- Sd2-P** CURB INLET SEDIMENT TRAP
- St** RIP-RAP
- Co** CONSTRUCTION OUTLET

DISTURBED AREA = 1.60 AC

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REV. NO.	DATE	DESCRIPTION	BLOCK

ATHENS-CLARKE COUNTY, GA

LEVEL II CERTIFIED DESIGN
PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE:
EROSION CONTROL PLAN -
PHASE II

PROJECT NAME:
MITCHELL BRIDGE
ROAD SHARED USE
PATH

SCALE
IN FEET

PROJECT INFORMATION

JOB NO: 19023003

DRAWN BY: KC

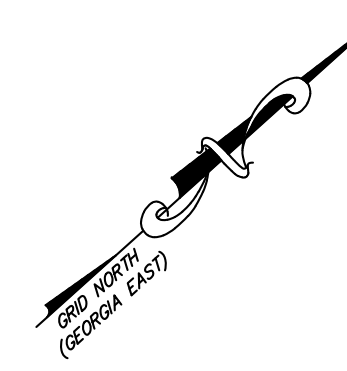
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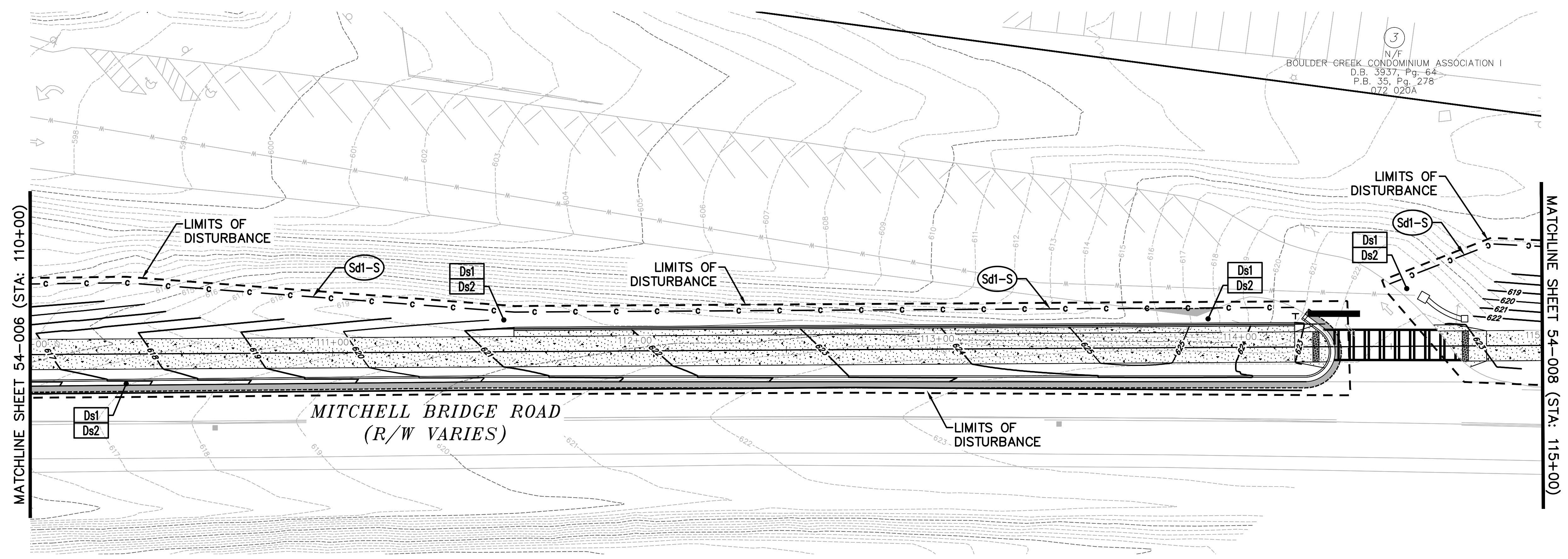
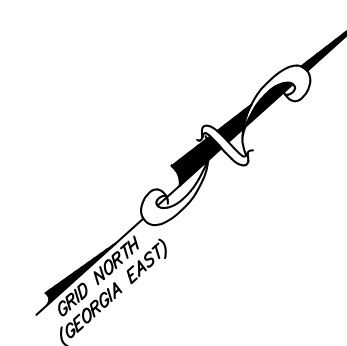
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:
54-005



MATCHLINE SHEET 54-007 (STA: 110+00)

Sheet:
54-006



DISTURBED AREA = 1.60 AC

"NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25- OR 50-FOOT UNDISTURBED STREAM BUFFERS, AS MEASURED FROM THE POINT OF WRESTED VEGETATION, WITHOUT FIRST OBTAINING THE NECESSARY VARIANCES AND PERMITS."

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 4. CONTRACTOR TO FIELD LOCATE CONSTRUCTION OUTLET AS REQUIRED.

EROSION CONTROL LEGEND

- | | |
|--------|--------------------------------|
| Ds1 | MULCH |
| Ds2 | TEMPORARY GRASSING |
| Ds3 | PERMANENT GRASSING |
| Ds4 | SOD |
| Du | DUST CONTROL ON DISTURBED AREA |
| Ss | SLOPE STABILIZATION |
| Cd | CHECK DAM |
| Rd | ROCK FILTER DAM |
| Sd1-NS | SILT FENCE TYPE A |
| Sd1-S | SILT FENCE TYPE C |
| Sd2-P | CURB INLET SEDIMENT TRAP |
| St | RIP-RAP |
| Co | CONSTRUCTION OUTLET |

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REV. NO.	DATE	DESCRIPTION	BLOCK

ATHENS-CLARKE COUNTY, GA

LEVEL II CERTIFIED DESIGN
PROFESSIONAL 0000052944
EXPIRES 05-01-2026

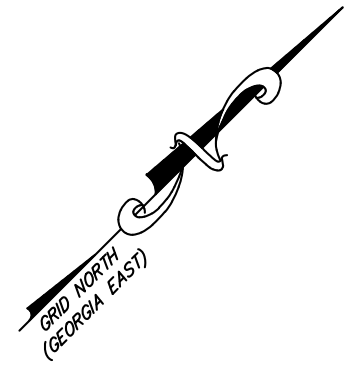
SHEET TITLE:
EROSION CONTROL PLAN -
PHASE II

PROJECT NAME:
MITCHELL BRIDGE
ROAD SHARED USE
PATH

SCALE
IN FEET

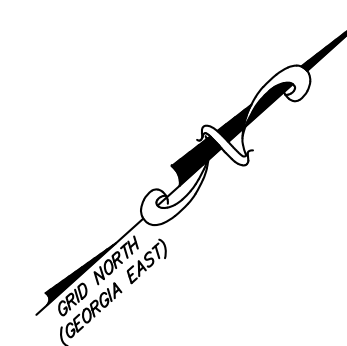
PROJECT INFORMATION	
JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	1" = 20'
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet:
54-007



END PROJECT
STATION: 119+60
N: 1441159.0499
E: 2518663.5269

- [illegible]



MATCHLINE SHEET 54-012 (STA: 115+00)

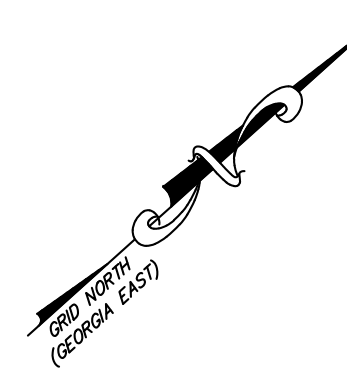
NOTE:

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Ds1	MULCH
Ds2	TEMPORARY GRASSING
Ds3	PERMANENT GRASSING
Ds4	SOD
Du	DUST CONTROL ON DISTURBED AREA
Ss	SLOPE STABILIZATION
Cd	CHECK DAM
Rd	ROCK FILTER DAM
Sd1-NS	SILT FENCE TYPE A
Sd1-S	SILT FENCE TYPE C
Sd2-P	CURB INLET SEDIMENT TRAP
St	RIP-RAP
Co	CONSTRUCTION OUTLET

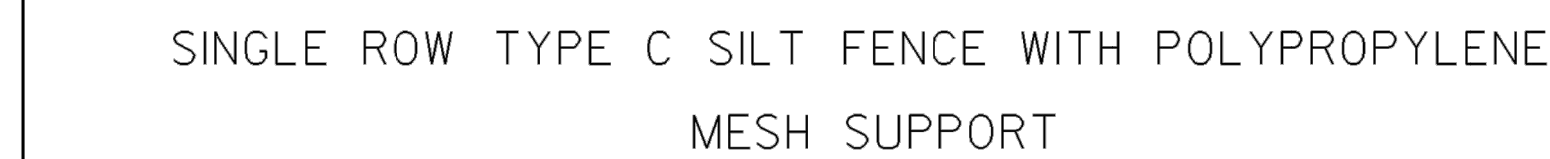
PROJECT NAME
**MITCHELL BRIDGE
ROAD SHARED USE
PATH**

Sheet:
54-011



SOIL INFORMATION TAKEN FROM USDA - NATIONAL RESOURCES CONSERVATION SERVICE

[illegible]



NOTES:

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

[illegible]

ATHENS-CLARKE
COUNTY, GA



LEVEL II CERTIFIED DESIGN
PROFESSIONAL 0000052944
EXPIRES 05-01-2026

SHEET TITLE:
**GDOT EROSION CONTROL
STANDARDS & DETAILS**

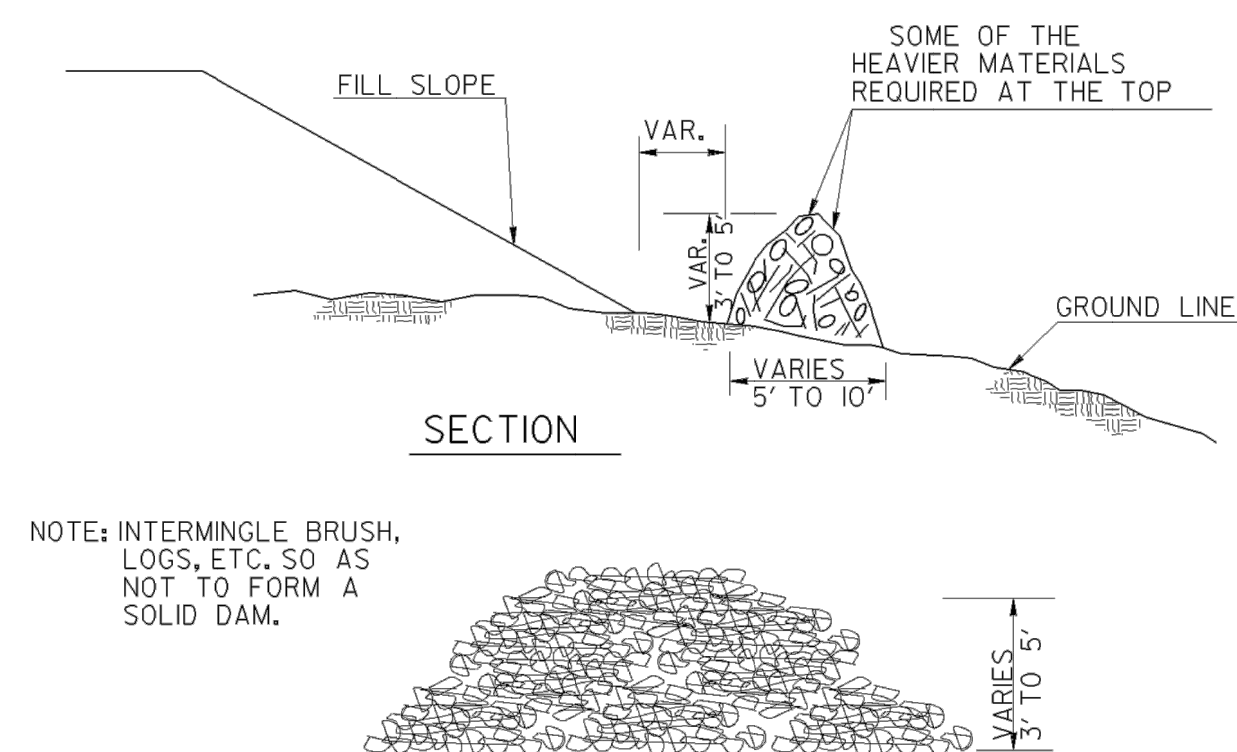
PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:

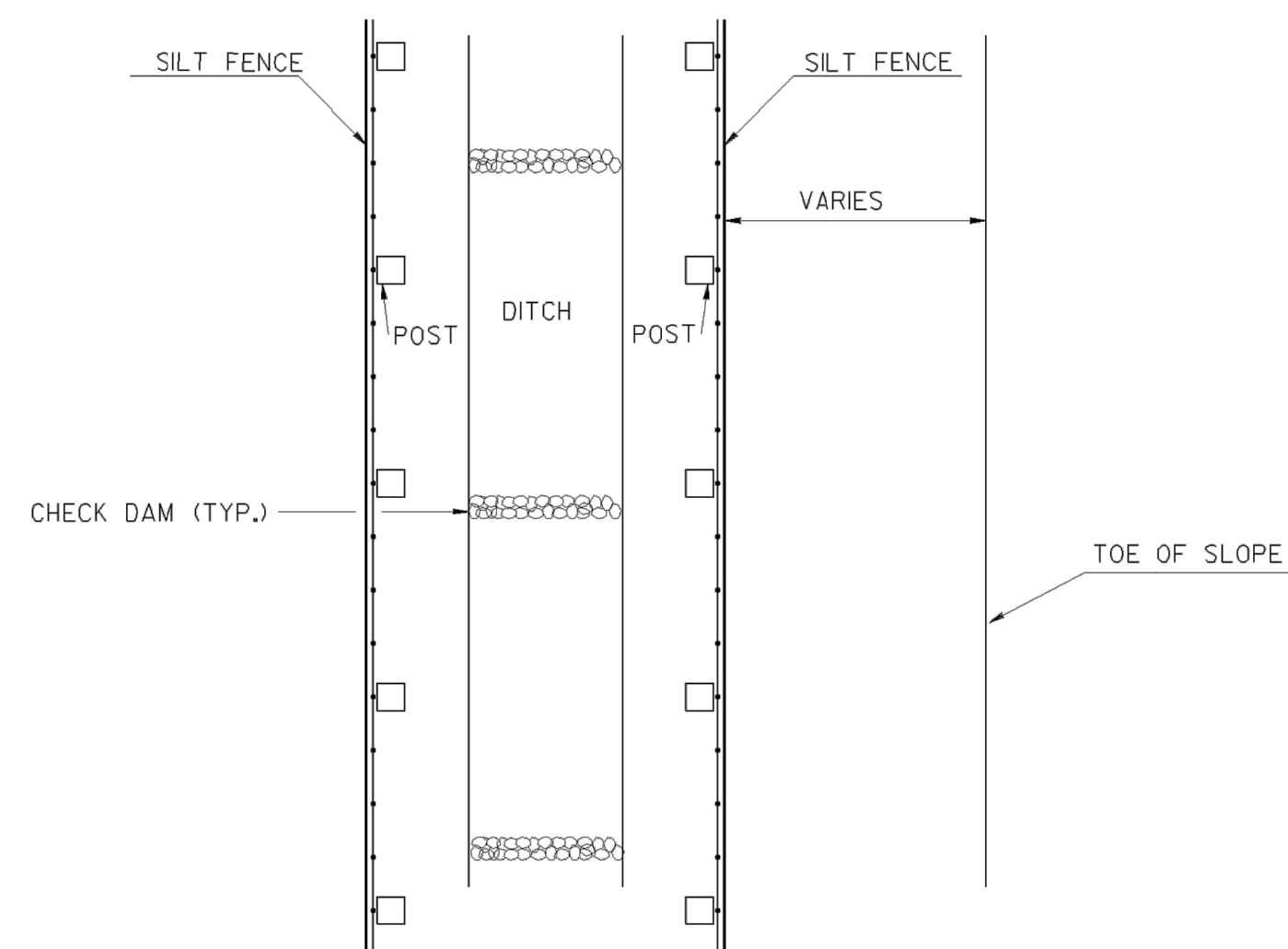
56-001



FRONT VIEW
WILL BE INCLUDED IN PAYMENT FOR CLEARING

BRUSH BARRIER DETAILS
(FOR USE IN RURAL AREAS)

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 USE D-24D.



NOTE: TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	CONSTRUCTION DETAILS TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER NO SCALE REV. AND REDRAWN JAN. 2011	
	BY			NUMBER D-24E (SHEET 2 OF 4)



HEET TITLE: GDOT EROSION CONTROL STANDARDS & DETAILS

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

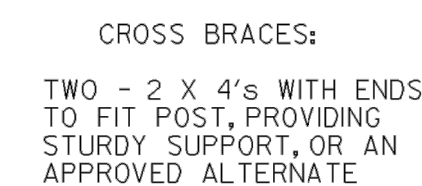
PROJECT INFORMATION	
JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023	

Sheet:
56-002



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

NUMBER
D-24C
(SHEET 3 OF 4)

NOTE: SEE SEPARATE DETAILS
FOR SILT FENCE AROUND
DROP INLETS.

INLET SEDIMENT TRAP - FOR DROP INLETS



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[illegible]ATHENS-CLARKE
COUNTY, GA

SHEET TITLE:
**GDOT EROSION CONTROL
STANDARDS & DETAILS**

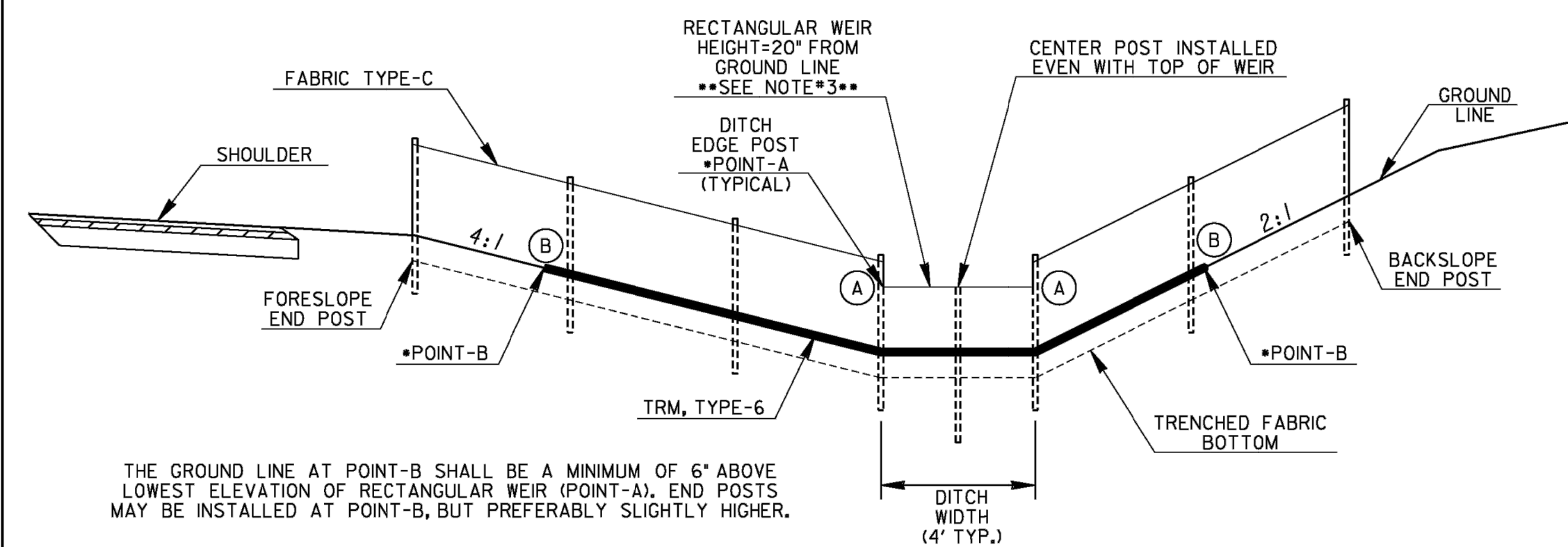
PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

JOB NO: 19023003
 DRAWN BY: KC
 CHECKED BY: VC
 DRAWING FILE: 19023003E.DWG
 DRAWING SCALE: N.T.S.
 ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:
56-003

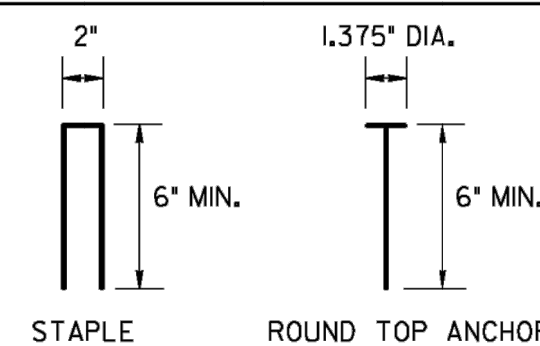


TYPICAL FABRIC CHECK DAM SPACING	
GRADE OF DITCH	MINIMUM SPACING (FEET)
LESS THAN 1%	100' ±
1% TO 3%	75' ±
3% TO 6%	50' ±
6% TO 8%	25' ±

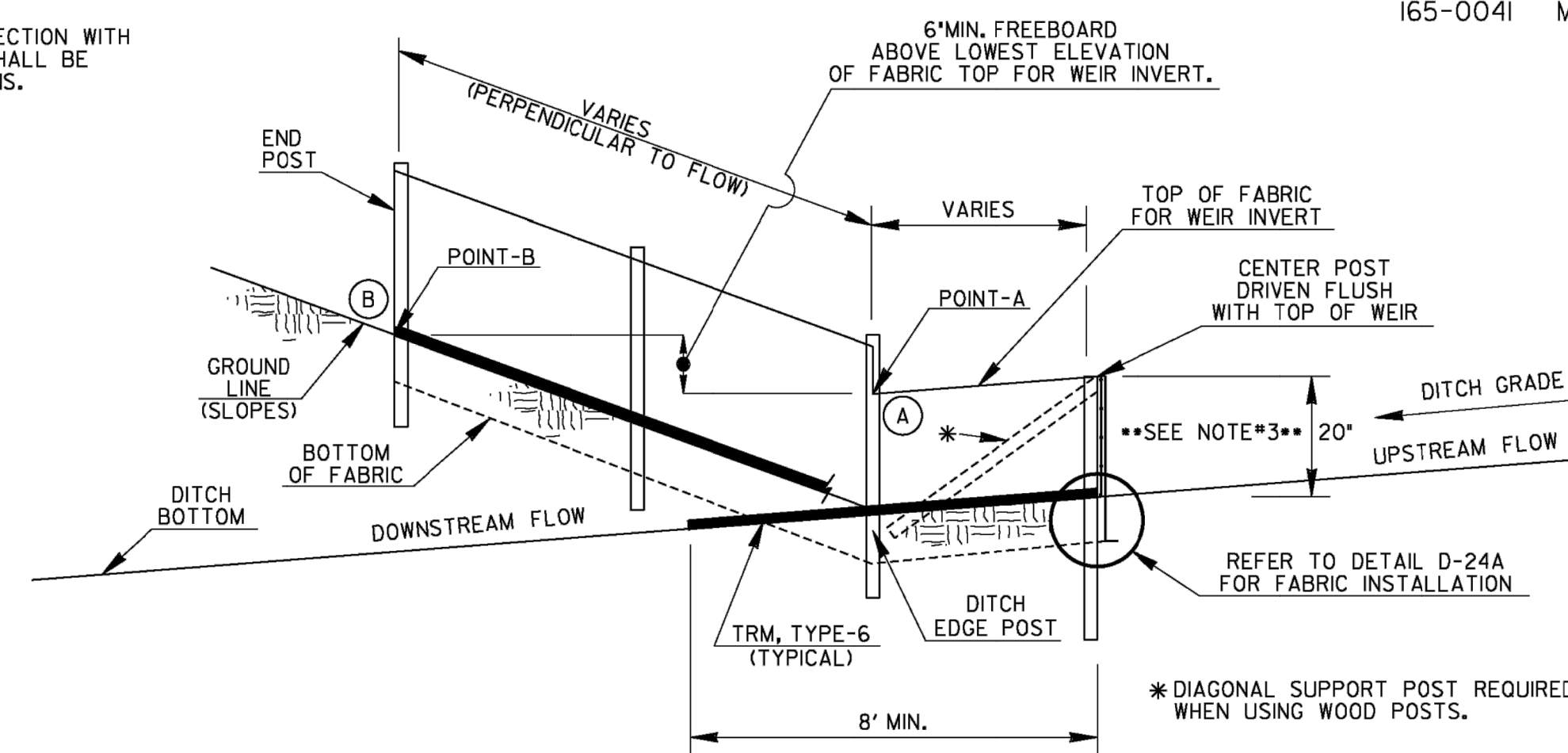


SECTION A-A

NOTE: CROSS-SECTION SHOWN IS AN EXAMPLE OF A TYPICAL CUT SECTION WITH A 4-FT FLAT BOTTOM DITCH. ACTUAL FABRIC CHECK DAMS SHALL BE INSTALLED SIMILARLY ACCORDING TO ROADWAY CROSS-SECTIONS.



NOTE: TURF REINFORCEMENT MATTING SHALL BE ANCHORED WITH 8-GAUGE METAL STAPLES OR ROUND TOP ANCHORS. ANCHORS SHALL BE LONG ENOUGH TO PROVIDE SUFFICIENT GROUND PENETRATION TO RESIST PULL OUT.



NOTES:

1. FABRIC CHECK DAMS MAY BE USED IN FLOWS UP TO 2.0-CFS. A ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM POINT FOR FLOWS GREATER THAN 2.0-CFS.
2. FABRIC CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
3. FABRIC CHECK DAMS MAY BE USED IN DITCHES WITH DEPTHS AT LEAST 26-IN. IF DITCH DEPTH IS LESS THAN 26-IN, THE WEIR INVERT MAY BE LOWERED SLIGHTLY IN THE FIELD TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A OR TO MATCH SPACING OF WIRE SUPPORT. THE WEIR HEIGHT SHALL BE NO LESS THAN 15-IN. THE DESIGNER SHALL CONSIDER OTHER APPROPRIATE BMPs FOR CONCENTRATED FLOW FOR DITCH DEPTHS LESS THAN 26-IN.
4. THE FOLLOWING STEPS ARE RECOMMENDED FOR PROPER FABRIC CHECK DAM INSTALLATION:
 - A) DETERMINE DITCH CENTERLINE AND USE A LINE LEVEL OR OTHER MEANS TO FIND POINT-B WITHIN THE DITCH FORESLOPE AND BACKSLOPE TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A.
 - B) CREATE TRENCH 6-IN BELOW DITCH GRADE TO FIT LAYOUT FROM STEP-A WITH MINIMAL SOIL DISTURBANCE.
 - C) LAYOUT TURF REINFORCEMENT MATTING (TRM), TYPE-6 TO PROVIDE PROTECTION A MINIMUM LENGTH OF 8-FT DOWNSTREAM OF CENTER POST TO FUNCTION AS A SPLASH PAD TO PREVENT SCOURING. ADDITIONAL NECESSARY TRM SHALL BE OVERLAPPED 3-FT. THE WIDTH SHALL BE THE DISTANCE BETWEEN POINT-B ON THE DITCH FORESLOPE AND POINT-B ON BACKSLOPE.
 - D) INSTALL FENCE POSTS THROUGH TRM WITHIN TRENCH. CENTER POST AND POSTS WITHIN WEIR AREA SHALL BE INSTALLED FLUSH WITH WEIR. CUT TRM WITHIN TRENCH FOLLOWING CHECK DAM LAYOUT AND SAVE UPSTREAM PORTION OF TRM FOR FURTHER USE.
 - E) PROPERLY INSTALL TYPE-C SILT FENCE. TRENCH BACKFILL SHALL BE COMPACTED WITH A HAND TAMPER, JUMPING JACK COMPACTOR, OR PLATE COMPACTOR TO PREVENT UNDERMINING.
 - F) INSTALL PREVIOUSLY CUT TRM FROM STEP-D UPSTREAM AGAINST CHECK DAM. INSTALLING UPSTREAM AND DOWNSTREAM TRM ACCORDING TO DETAIL D-35 FOR THIS TEMPORARY APPLICATION IS NOT REQUIRED. HOWEVER, TRM SHALL HAVE PROPER CONTACT WITH GROUND SURFACE, ANCHORED 6-IN MAXIMUM SPACING ALONG THE EDGES, AND ADEQUATELY WITHIN THE MATTED AREA.
5. TEMPORARY INSTALLATION OF TRM WITH FABRIC CHECK DAMS SHALL BE INCLUDED IN THE LINEAR COST OF THE CONSTRUCTION, REMOVAL, AND MAINTENANCE OF EACH FABRIC CHECK DAM. NO ADDITIONAL PAYMENT WILL BE MADE.

PAY ITEMS:

FAT ITEMS:
163-0528 CONSTRUCT & REMOVE FABRIC CHECK DAM, TYPE-C SILT FENCE (LF)
165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
		REVISION	CONSTRUCTION DETAILS TEMPORARY SILT FENCE FABRIC CHECK DAM	
			NO SCALE	REV. AND REDRAWN, JULY 2015
	BY		NUMBER D-24D (SHEET 4 OF 4)	

[illegible]

**ATHENS-CLARKE
COUNTY, GA**



HEET TITLE: GDOT EROSION CONTROL STANDARDS & DETAILS

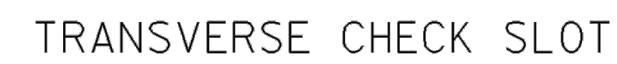
PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION

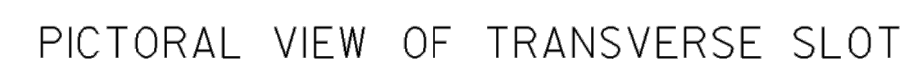
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DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:

56-004



1. INSTALLATION TO BE DONE AS PER MANUFACTURER'S RECOMMENDATIONS.
2. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
3. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
4. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
5. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
6. USE 3' OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
7. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.
8. METAL STAPLES MAY BE USED IN LIEU OF WOODEN STAKES.



NOTE: MAT TO BE PLACED ONE FEET ABOVE
DITCH BREAK POINT OR ONE FOOT ABOVE
THE 25 YEAR STORM.

	H-11	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
	REVISED SHEET LAYOUT & ADDED DITCH SECTION, ADDED METAL STAPLE.	REVISION	CONSTRUCTION DETAILS PERMANENT SOIL REINFORCING MAT (TURF REINFORCING MATS) INSTALLATION ON DITCHES	
			NO SCALE	AUGUST 1981
T.P.C.	BY	Designed _____ Drawn <u>Kubak</u> Traced _____ Checked _____	NUMBER D-35	

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**ATHENS-CLARKE
COUNTY, GA**



SHEET TITLE:
**GDOT EROSION CONTROL
STANDARDS & DETAILS**

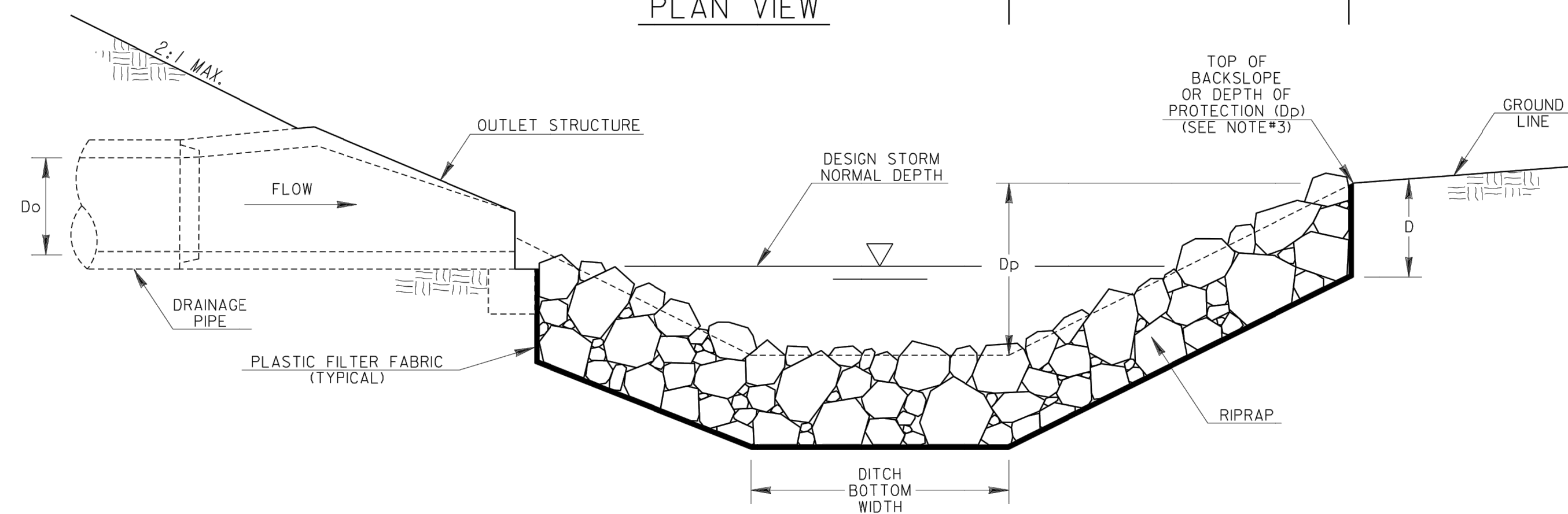
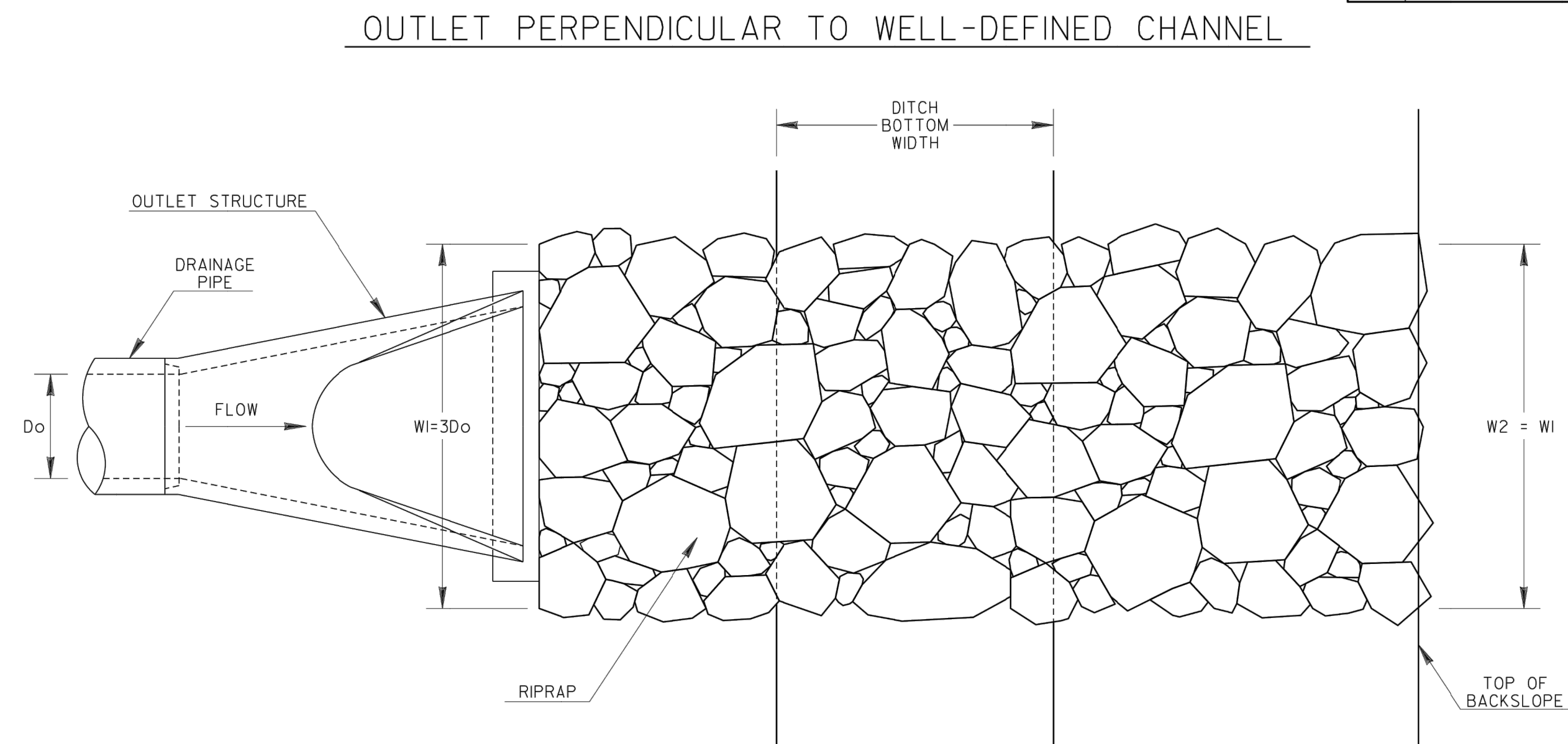
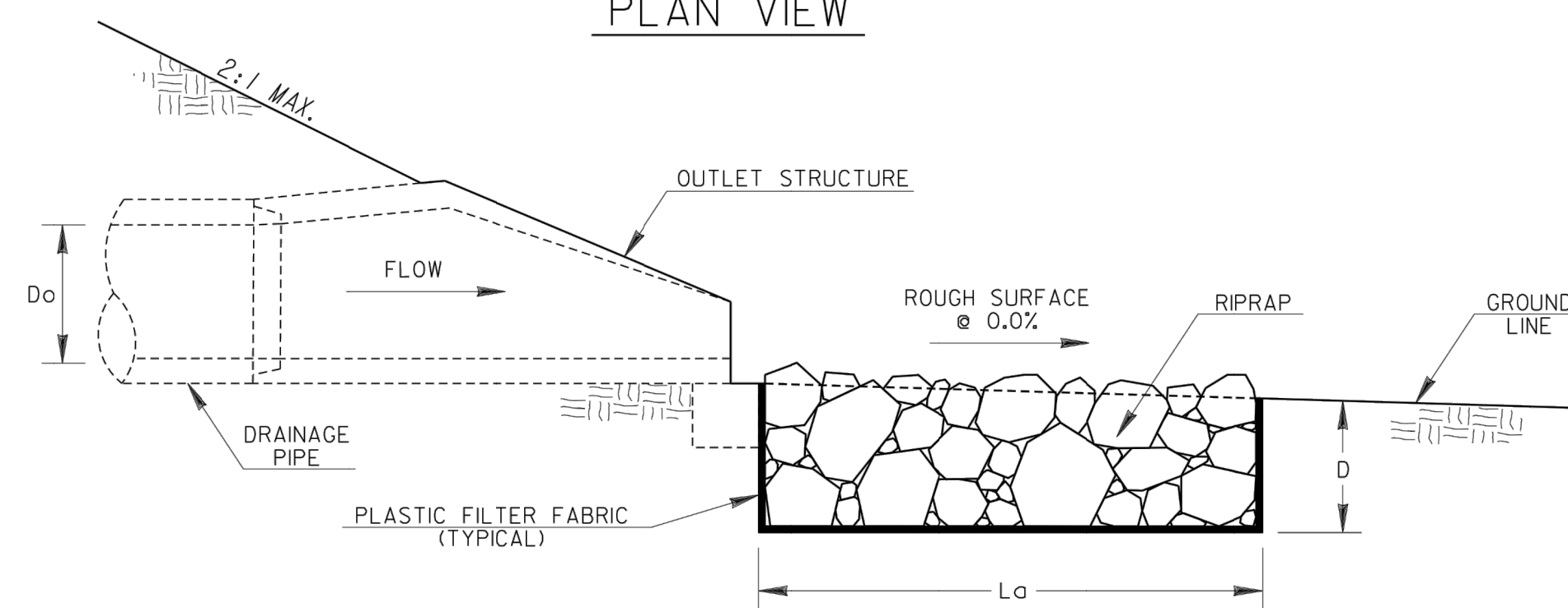
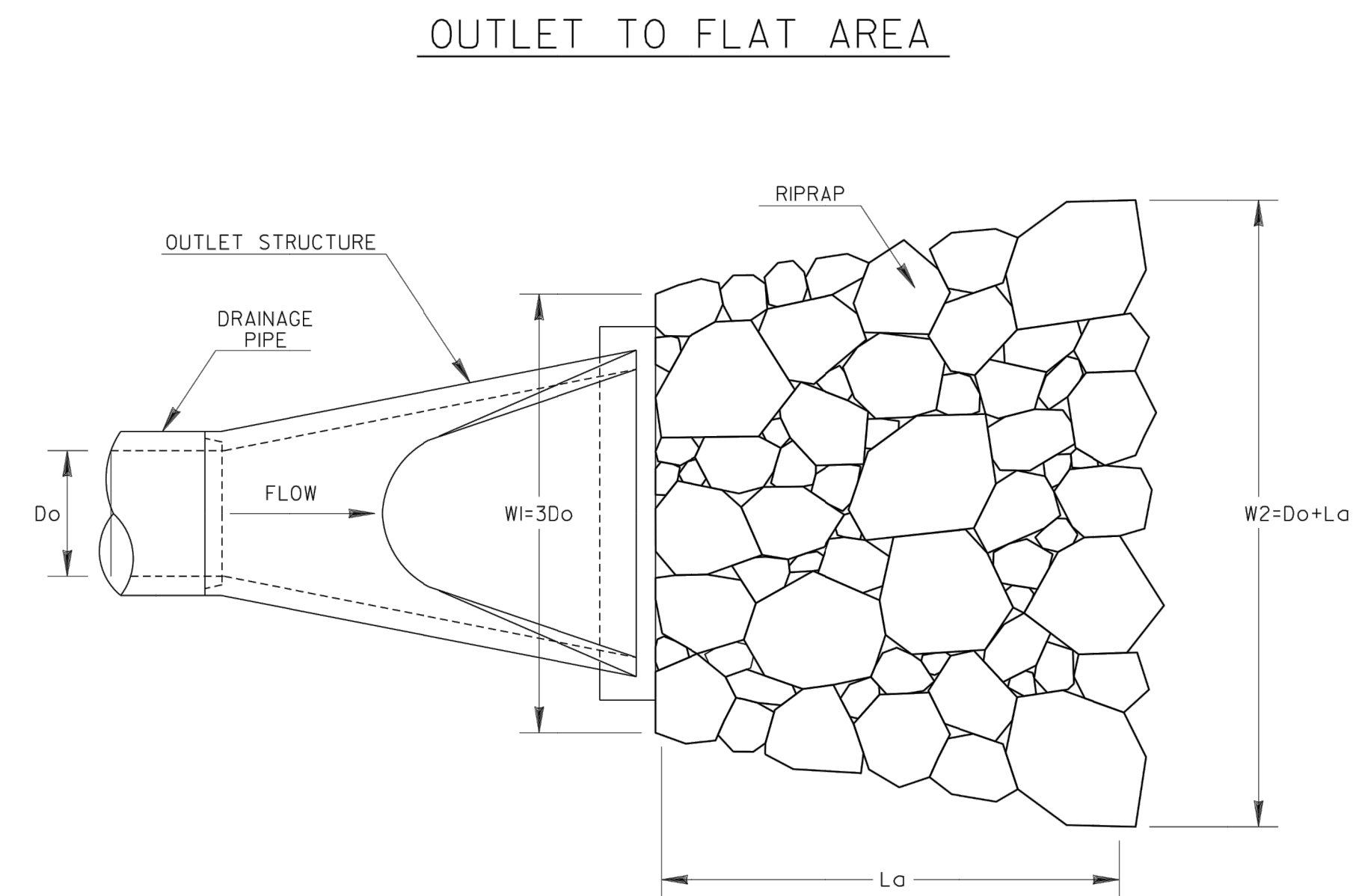
PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:
56-005

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



GENERAL NOTES:


1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD #120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.
2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (D_p), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (TW), APRON LENGTH (L_a), APRON WIDTH AT DRAINAGE STRUCTURE (W), APRON WIDTH DOWNSTREAM (W₂), AVERAGE STONE DIAMETER (d₅₀), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PERPENDICULAR INTO A WELL-DEFINED CHANNEL. THE LENGTH SHALL EXTEND ACROSS THE CHANNEL AND UP TO THE TOP OF THE CHANNEL BACKSLOPE OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (D_p) IF THE APRON DOES NOT EXTEND TO THE TOP OF THE BACKSLOPE.
4. IF THE OUTLET HYDRAULICS REQUIRE A d₅₀<0.70 FEET, TYPE-3 RIPRAP MAY BE USED.
IF THE OUTLET HYDRAULICS REQUIRE A d₅₀<1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.
IF THE OUTLET HYDRAULICS REQUIRE A d₅₀>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do = PIPE DIAMETER
 Q = DESIGN STORM FLOW RATE
 V = DESIGN STORM VELOCITY
 Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
 La = APRON LENGTH
 Wl = APRON WIDTH UPSTREAM
 W2 = APRON WIDTH DOWNSTREAM
 d50 = AVERAGE STONE DIAMETER
 D = INSTALLATION DEPTH
 Dp = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

			DATE	DEPARTMENT OF TRANSPORTATION	
				STATE OF GEORGIA	
			REVISION	CONSTRUCTION DETAILS	
				RIPRAP OUTLET PROTECTION (SHEET 1 OF 2)	
				NO SCALE	
				4-22-2016	
		BY	DESIGNED <u>OLE</u> DRAWN <u>OLE</u> TRACED _____ CHECKED _____	NUMBER D-55A	



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**ATHENS-CLARKE
COUNTY, GA**



HEET TITLE: GDOT EROSION CONTROL STANDARDS & DETAILS

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION	
JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	
AUGUST 16, 2023	

Sheet:
56-007

Sheet:
56-008



MATCHLINE SHEET 70-004 (STA: 115+00)

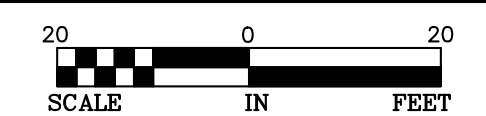
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**ATHENS-CLARKE
COUNTY, GA**



HEET TITLE: TREE MANAGEMENT PLAN

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH



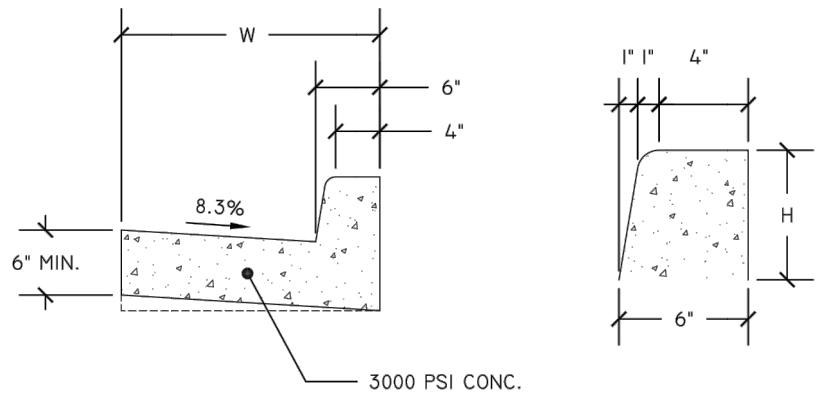
PROJECT INFORMATION

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: 1" = 20'
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
70-003

- NOTE:
1. TREE PROTECTION FENCING SHALL BE INSTALLED ALONG THE EXISTING OR ACQUIRED EASEMENTS AS SHOWN.
 2. BEFORE CONSTRUCTION ACTIVITIES BEGIN (SUCH AS TRENCHING FOR EROSION CONTROL AND TREE FELLING OPERATIONS) FOR THE INSTALLATION OF EROSION CONTROL FENCING, THE CONTRACTOR SHALL FLAG THE LIMITS OF DISTURBANCE AND THEN CONDUCT AN ON SITE REVIEW WITH THE PROJECT OWNER/MANAGER AND THE ATHENS CLARKE COUNTY LANDSCAPE MANAGEMENT ADMINISTRATOR TO DETERMINE THE LOCATIONS OF BOTH EROSION CONTROL FENCING AND TREE PROTECTION FENCING. IN COORDINATION WITH SPLOST, THE ATHENS-CLARKE COUNTY LANDSCAPE MANAGEMENT ADMINISTRATOR SHALL HAVE THE AUTHORITY TO MAKE ADJUSTMENTS TO THE TREE PROTECTION FENCING FOR THE DURATION OF THE PRE-CONSTRUCTION AND CONSTRUCTION PHASES OF THE PROJECT.
 3. TREE PROTECTION FENCING SHALL BE ERECTED BEFORE ANY SITE WORK BEGINS TO PRESERVE THE ROOT ZONES OF DESIRABLE TREES OR TREED AREAS THAT HAVE BEEN SELECTED FOR PRESERVATION. THE PURPOSE OF TREE PROTECTION FENCING IS TO LIMIT AND PREVENT UNNECESSARY DISTURBANCES (SUCH AS THE PARKING OF VEHICLES OR EQUIPMENT OR STORAGE OF CONSTRUCTION MATERIALS) IN THE CRITICAL ROOT ZONES (CRZ) OF THE TREE PRESERVATION AREAS. TREE PROTECTION FENCING SHALL CONSIST OF 4 FOOT HIGH PLASTIC SNOW FENCING, WHICH SHALL BE HUNG FROM HEAVY WIRE ATTACHED BETWEEN STURDY POSTS.
 4. TREE PROTECTION SIGNS SHALL BE PLACED IN CLEARLY VISIBLE LOCATIONS IN TWO PLACES AROUND ANY SINGLE TREE AND EVERY 30 FEET ALONG THE FENCING ALONGSIDE TREED AREAS. TREE PROTECTION SIGNS WILL BE A MINIMUM OF 11 BY 17 INCHES AND MADE OF A WEATHERPROOF STURDY MATERIAL, SUCH AS PLASTIC OR LAMINATED PAPER. TREE PROTECTION SIGNS WILL BE KEPT IN GOOD CONDITION AND SHALL BE REPLACED IF THE TEXT BECOMES UNREADABLE. TREE PROTECTION SIGNS SHALL INCLUDE THE SPLOST AND ATHENS-CLARKE COUNTY LOGOS AND SHALL STATE "TREE PROTECTION ZONE" IN A VERY LARGE, BOLD FONT AND SHALL READ: :
 - 4.1. NO ENTRY, GRADE CHANGE, STORAGE, OR TEMPORARY STORAGE OF ANY MATERIALS OR EQUIPMENT, WASHING OF EQUIPMENT, NOR THE DUMPING OR PILING OF ANY MATERIALS OR DEBRIS PERMITTED IN THE TREE PROTECTION ZONE.
 - 4.2. THE TREE PROTECTION BARRIER MUST NOT BE ALTERED, MOVED, OR REMOVED WITHOUT THE WRITTEN PERMISSION OF SPLOST IN COORDINATION OF THE ATHENS-CLARKE COUNTY LANDSCAPE MANAGEMENT ADMINISTRATOR (JEANNE.CONNELL@ACCGOV.COM)

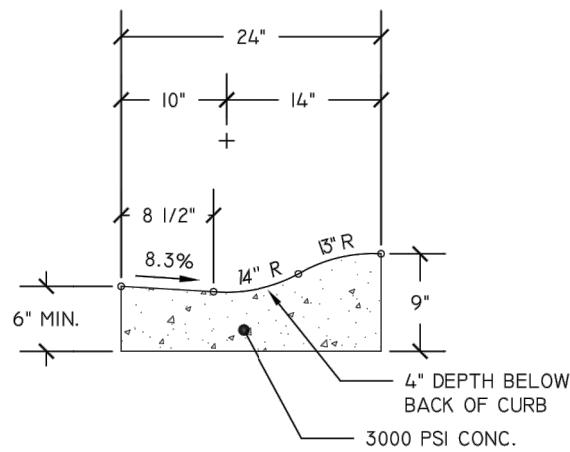
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



TYPE	H	W	DESIGNATION
2-A	6"	24"	6"x24"x12"
2-B	6"	30"	6"x30"x12"
3	8"	30"	8"x30"x14"

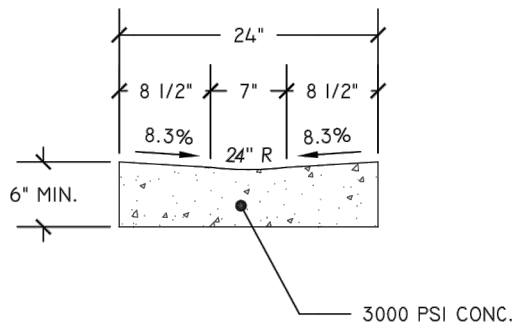
- Notes:
1. $\frac{1}{2}$ " Asphalt Impregnated Expansion Joints to be placed every 100 L.F., at all structures, and at radius points.
 2. Construction Joints to be placed every 10 L.F.
 3. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6'.
 4. All exposed surfaces to be broom finished.
 5. Gutter thickness may be increased to match paving course.

HIGH BACK CURB & GUTTER
NTS



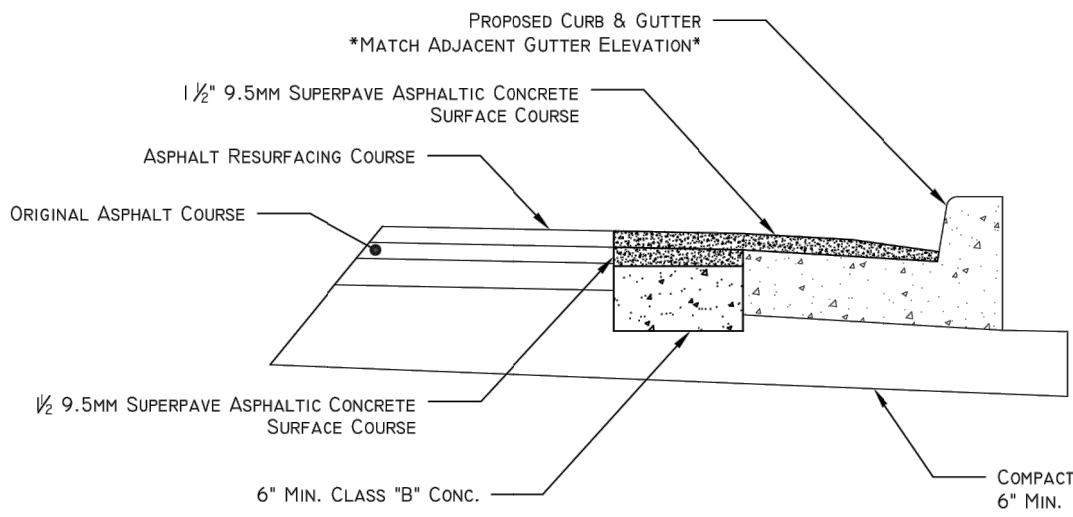
- Notes:
1. Use of Rollover Curb requires the approval of the Director of Transportation and Public Works.
 2. $\frac{1}{2}$ " Asphalt Impregnated Expansion Joints to be placed every 100 L.F., at all structures, and at radius points.
 3. Construction Joints to be placed every 10 L.F.
 4. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6'.
 5. All exposed surfaces to be broom finished.
 6. Gutter thickness may be increased to match paving course.

ROLLOVER CURB
NTS



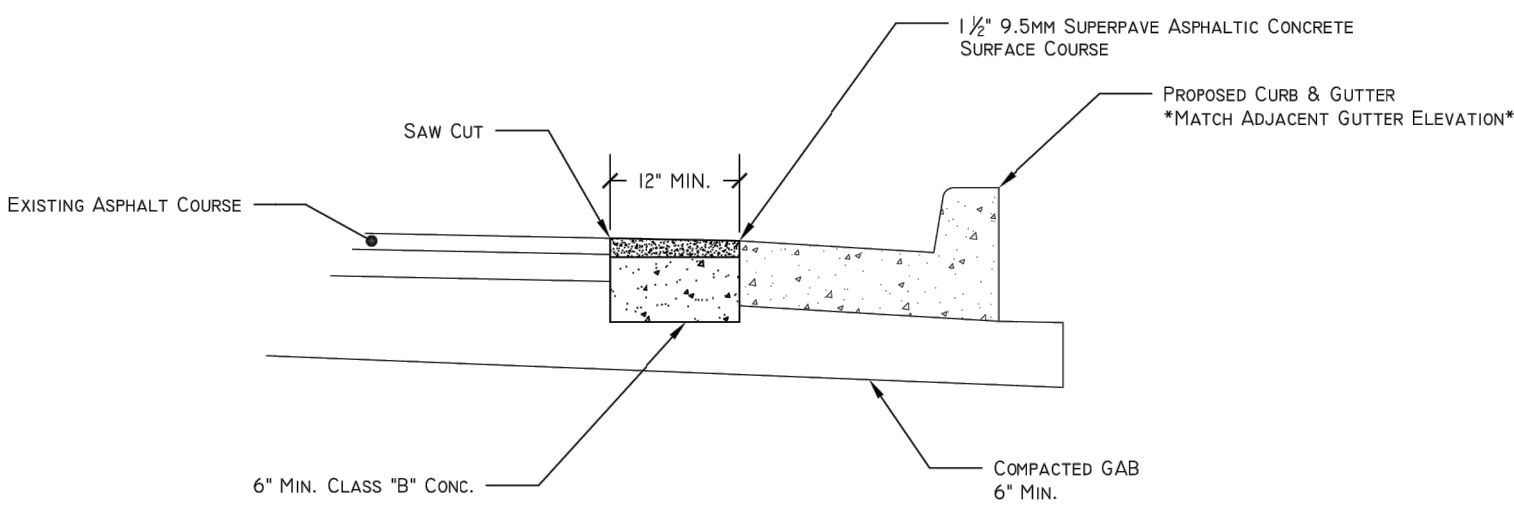
- Notes:
1. For use along on-street parking when approved by the Department Director.
 2. $\frac{1}{2}$ " Asphalt Impregnated Expansion Joints to be placed every 100 L.F., at all structures, and at radius points.
 3. Construction Joints to be placed every 10 L.F.
 4. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6'.
 5. All exposed surfaces to be broom finished.
 6. Gutter thickness may be increased to match paving course.

VALLEY GUTTER
NTS



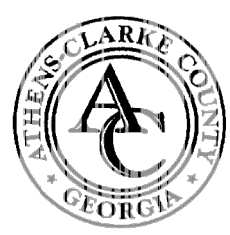
- Notes:
1. For installation of curb and gutter along existing streets with excavated area width is less than 5'.
 2. Use typical section detail for excavated areas wider than 5'.
 3. Graded Aggregate Base to be placed under curb at a minimum thickness of 6" and extend beyond the back of curb a minimum of 6'.

CLASS "B" CONCRETE BASE
NTS



REVISIONS:			
NO.	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

SURVEYED BY: NA
DESIGNED BY: BCB
DRAWN BY: BCB
CHECKED BY: BCB
APPROVED BY: JHP



THE UNIFIED GOVERNMENT OF ATHENS-CLARKE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ENGINEERING DIVISION
120 WEST DOUGHERTY STREET
ATHENS, GEORGIA 30603

PHONE 706.613.3440
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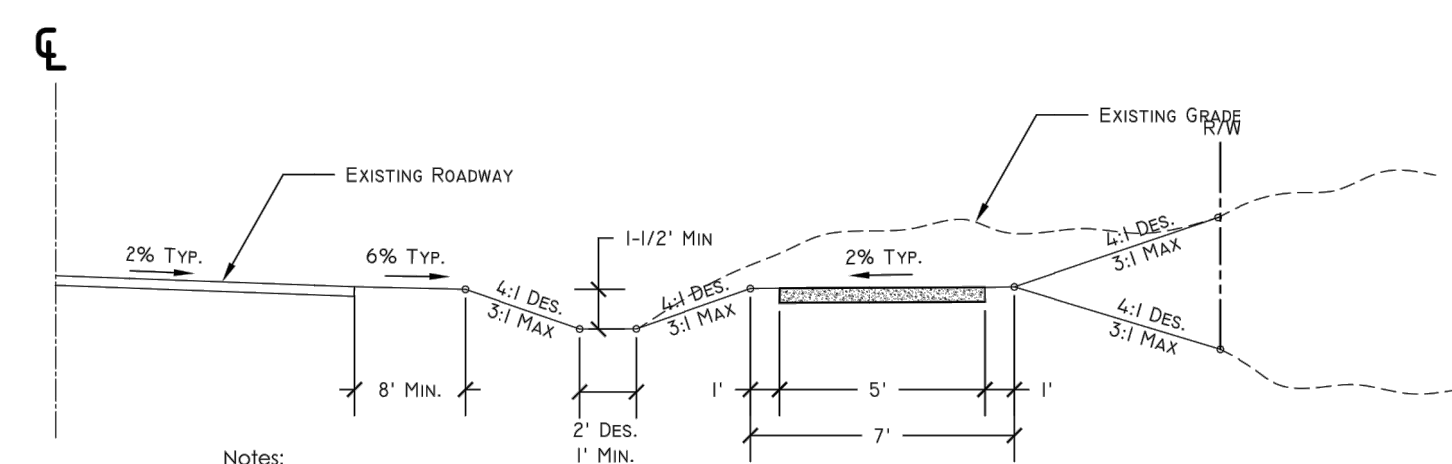
PROJECT:
CONSTRUCTION STANDARDS AND DETAILS
DATE: FEBRUARY 2009

SHEET:
CURB & GUTTER
DETAIL
SHEET: I-030

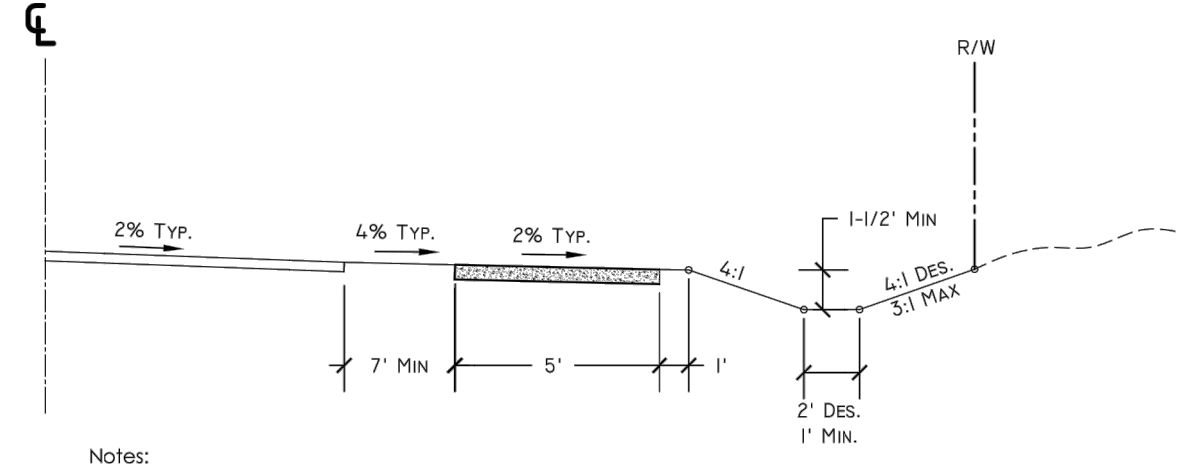
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JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:
80-001

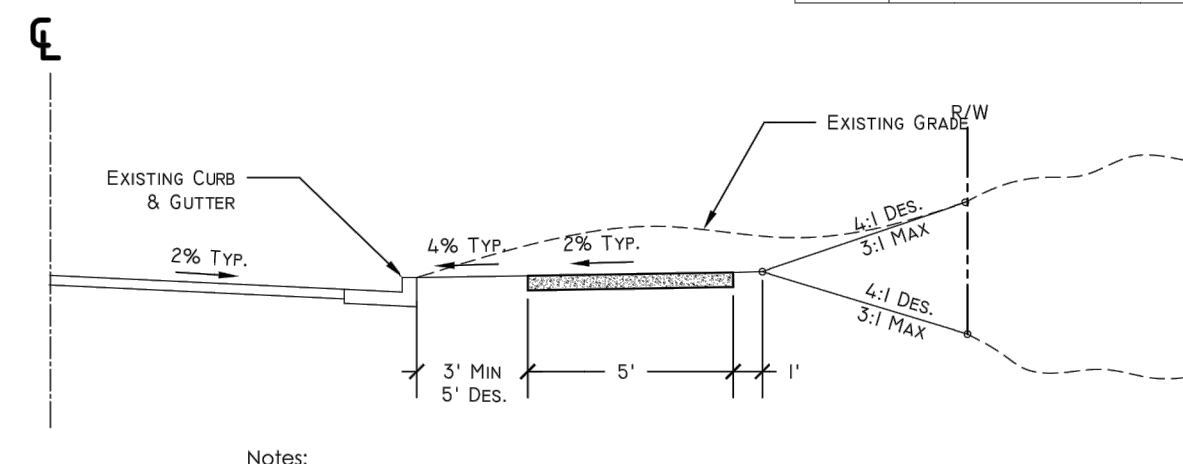
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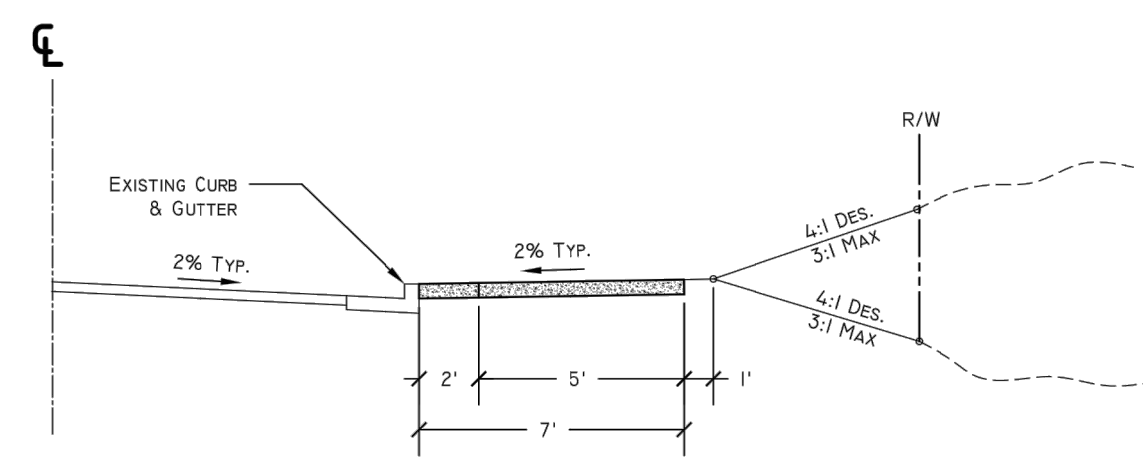
TYPICAL SIDEWALK CROSS-SECTION
TYPE #1
NTS



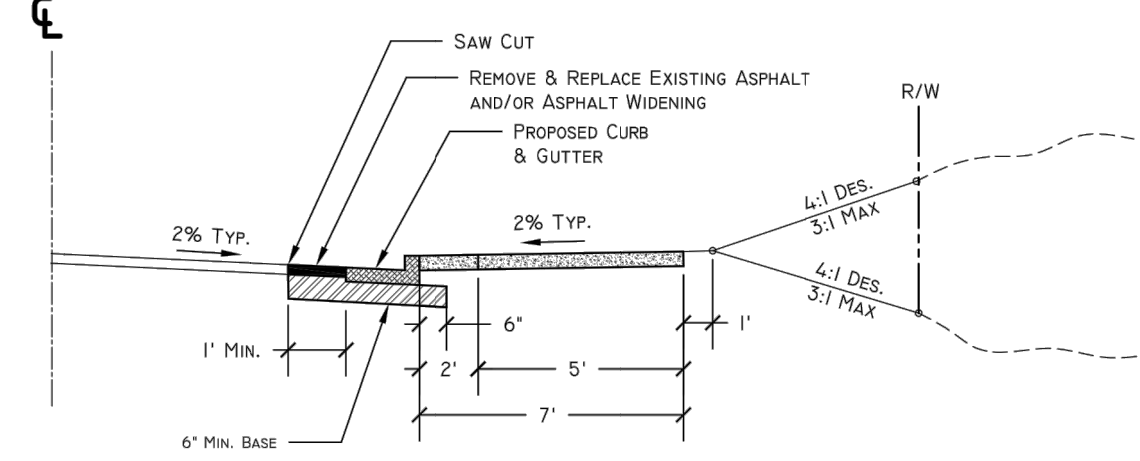
TYPICAL SIDEWALK CROSS-SECTION
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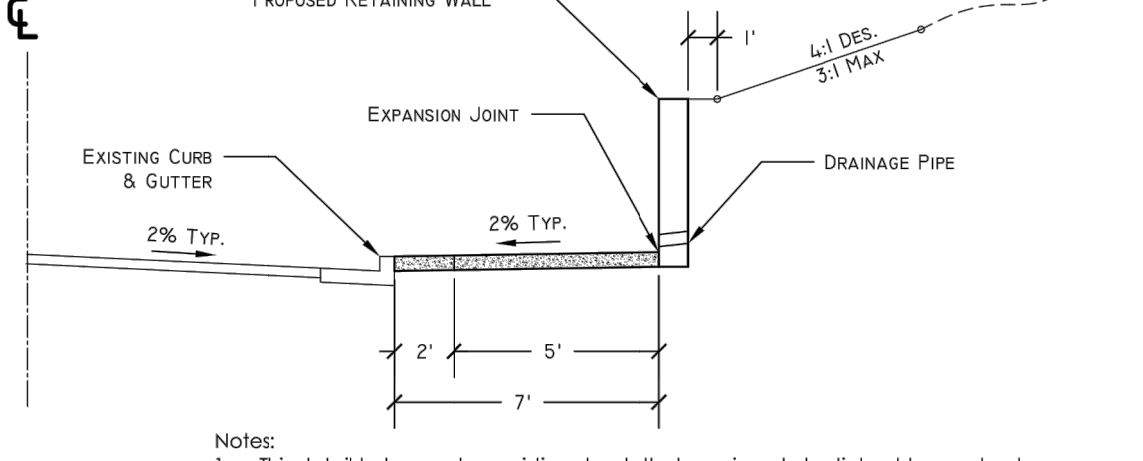
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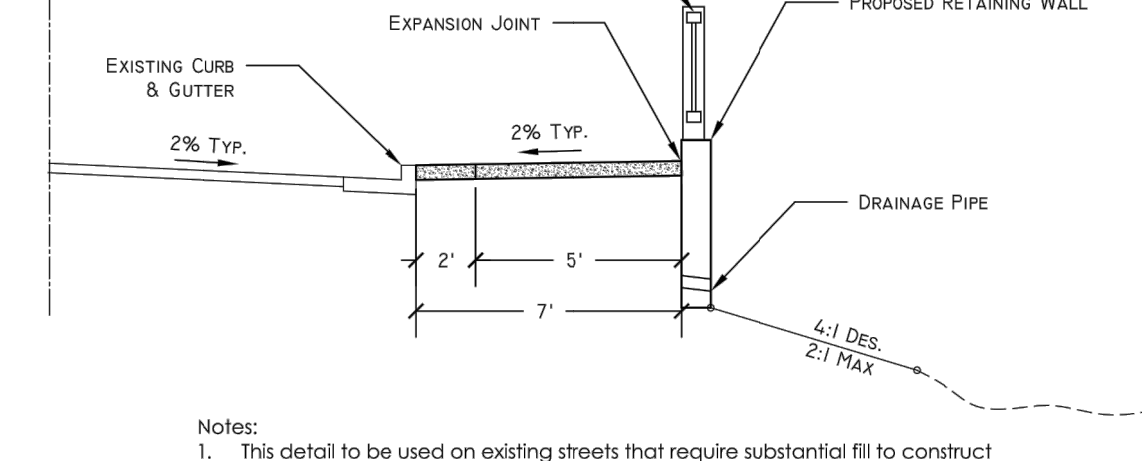
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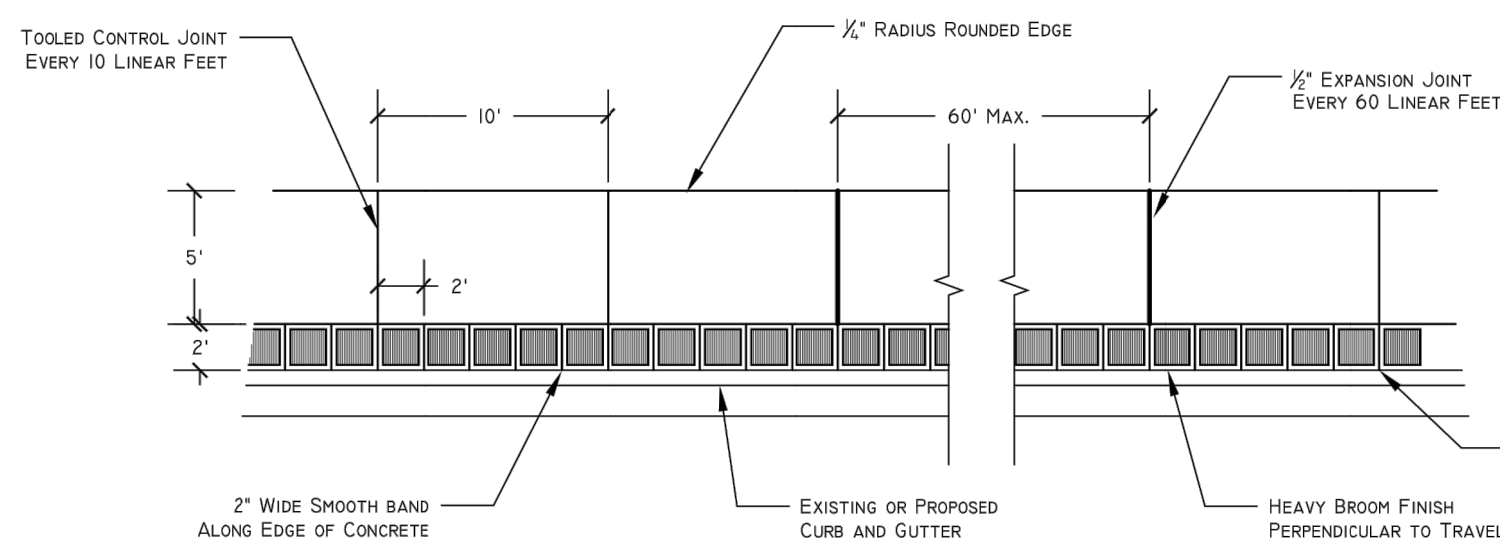
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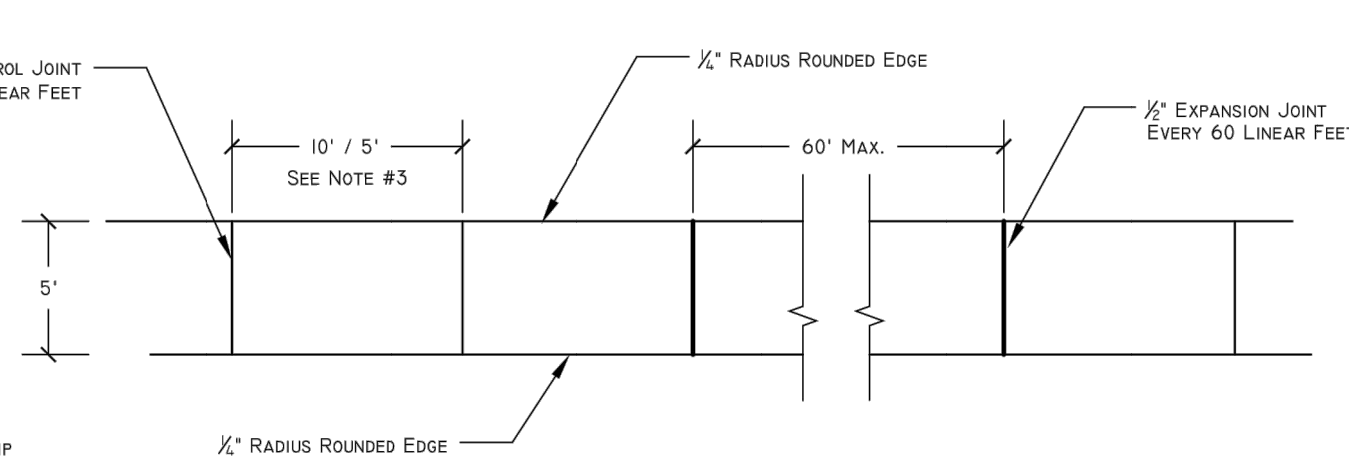
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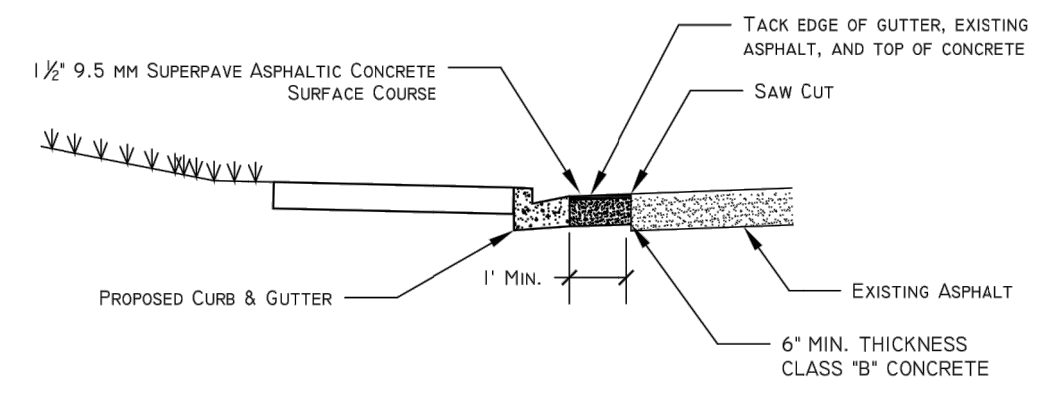
TYPICAL SIDEWALK CROSS-SECTION
TYPE #7
NTS



7' SIDEWALK JOINT PATTERN
AND FINISH DETAIL
NTS



5' SIDEWALK JOINT PATTERN
AND FINISH DETAIL
NTS



CLASS "B" CONCRETE BASE
OR WIDENING DETAIL
NTS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA		40	48

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**ATHENS-CLARKE
COUNTY, GA**



SHEET TITLE: CONSTRUCTION STANDARDS & DETAILS

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

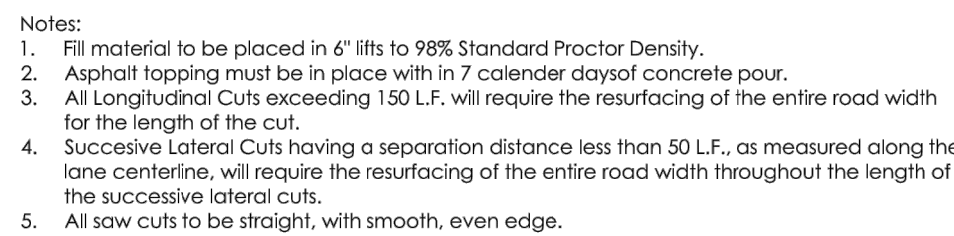
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JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	
AUGUST 16, 2023	

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80-002

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A cross-sectional diagram of a manhole or valve box installation. The diagram shows a central vertical structure (manhole or valve box) surrounded by a concrete base and walls. The base is composed of brick courses, which are covered by a 9.5 mm superpave asphaltic concrete layer (12" MIN. thick). Above this is a 3000 PSI concrete layer (8" MIN. thick). The top of the concrete is finished with a tack coat concrete before asphalt topping. The overall width of the concrete base is 12" MIN. on each side of the central structure. The existing asphalt surface is shown on the right side of the diagram.

Labels and dimensions in the diagram include:

- MANHOLE OR VALVE BOX
- 12" MIN.
- EXISTING ASPHALT
- 9.5 MM SUPERPAVE ASPHALTIC CONCRETE (12" MIN.)
- BRICK COURSES
- 3000 PSI CONC. (8" MIN.)
- TACK COAT CONC. BEFORE ASPHALT TOPPING

- Notes:
1. Fill material to be placed in 6" lifts to 98% Standard Proctor Density.
 2. All Street Cuts must be covered with a steel plate of sufficient thickness to span the cut without noticeable deflection. Steel plates must remain in place until concrete has sufficient strength to withstand traffic loads, a minimum of 24 hours.
 3. Asphalt topping must be in place with in 7 calendar days of concrete pour.
 4. Ring and Cover must be adjusted flush with asphalt.
 5. All saw cuts to be straight, with smooth, even edge.

Diagram illustrating the cross-section of a road repair structure. The layers, from top to bottom, are:

- EXISTING ASPHALT
- 9.5 MM SUPERPAVE ASPHALTIC CONCRETE (2" MIN.)
- TACK COAT CONC. BEFORE ASPHALT TOPPING
- 3000 PSI CONC. (8" MIN.)
- BACKFILL TO BE PLACED IN 6" LIFTS WITH 98% MAXIMUM DRY DENSITY

The diagram also indicates a width of 12" MIN. for the repair area.

- Notes:
1. Fill material to be placed in 6" lifts to 98% Standard Proctor Density.
 2. All Street Cuts must be covered with a steel plate of sufficient thickness to span the cut without noticeable deflection. Steel plates must remain in place until concrete has sufficient strength to withstand traffic loads, a minimum of 24 hours.
 3. Asphalt topping must be in place with in 7 calendar days of concrete pour.
 4. All saw cuts to be straight, with smooth, even edge.

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ATHENS-CLARKE
COUNTY, GA



SHEET TITLE: CONSTRUCTION STANDARDS & DETAILS

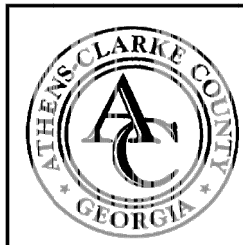
PROJECT NAME
**MITCHELL BRIDGE
ROAD SHARED USE
PATH**

PROJECT INFORMATION	
JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023	

Sheet:
80-003

REVISIONS:			
NO.	BY	DATE	DESCRIPTION
1			
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SURVEYED BY: NA
DESIGNED BY: BCB
DRAWN BY: BCB
CHECKED BY: BCB
APPROVED BY: JMP



THE UNIFIED GOVERNMENT OF ATHENS-CLARKE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ENGINEERING DIVISION

120 WEST DOUGHERTY STREET
ATHENS, GEORGIA 30603

PHONE 706.613.3440
FAX 706.613.3444

PROJECT:

CONSTRUCTION STANDARDS AND DETAILS

DATE: FEBRUARY 2009

SHEET:

UTILITY CUT AND ADJUSTMENT DETAIL

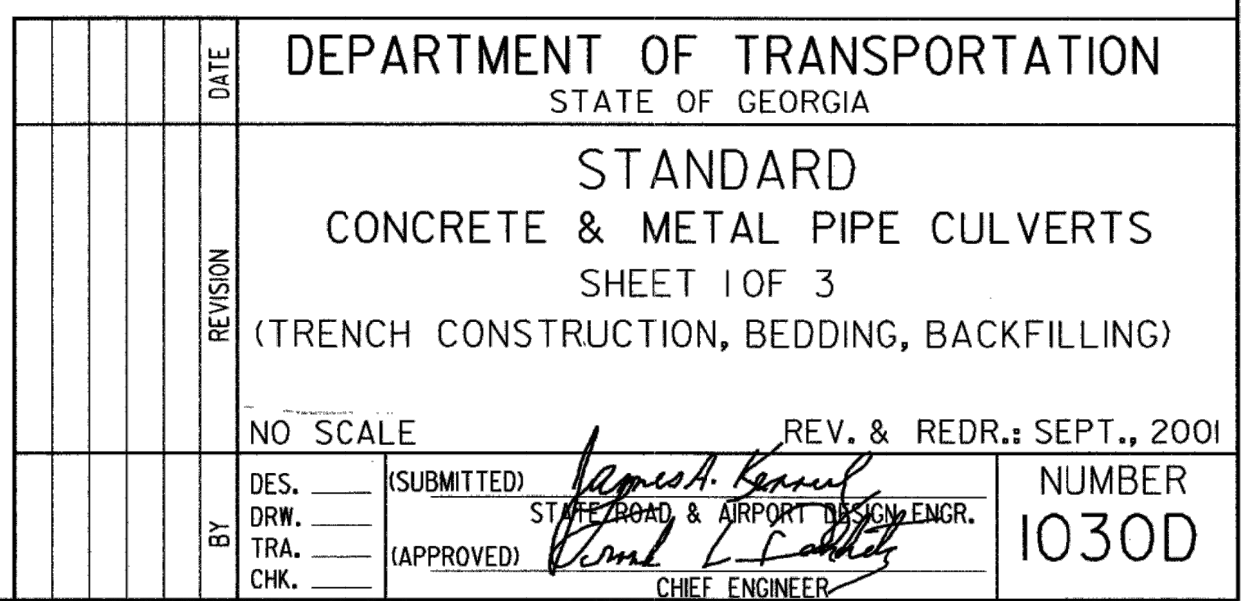
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PROJECT NAME
**MITCHELL BRIDGE
ROAD SHARED USE
PATH**

Sheet:
80-004



NOTE:

1. FOR FILL HEIGHT TABLES SEE SHEET 2 OF 3 AND SHEET 3 OF 3.
2. ONLY ONE CLASS OR THICKNESS OF PIPE WILL BE SPECIFIED FOR EACH INDIVIDUAL LOCATION. THE CLASS OR THICKNESS WILL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL.

6/18/2007 10:39:20 AM \\G600T-DSM\\V60PLOT\\DCE\\fig-1\\fig_output.qcd gdwahs W:\\GAR\\V10303\\page 2.cpl

TABLE NO.1 ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM
MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	PIPE TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE										PIPE DIAMETER (INCHES)	
			1 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
12	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075
15	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075
18	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075
24	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	.075
30	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075
36	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075
42	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075
48	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075
54	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079	.079
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
60	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
66	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
72	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
78	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
84	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
90	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
96	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
102	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
108	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
114	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
120	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064

TABLE NO.3-INFORMATION ONLY			
COR.	METAL	THICKNESS	EQUIVALENT GAGE
STEEL		.064	16
		.079	14
		.099	12
		.138	10
		.168	8
ALUMINUM		.060	16
		.075	14
		.105	12
		.135	10
		.164	8

FOR CONDITIONS TO THE RIGHT OF THE HEAVY LINE, CLASS V CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "A" OR "B" ON SHEET 1 OF 3.

STEEL 1 OR ALUM 1 DENOTES CORRUGATION PROFILE 2 2/3" X 1/2"

STEEL 2 OR ALUM 2 DENOTES CORRUGATION PROFILE 3" X 1" (OR 5" X 1" FOR STEEL PIPE ONLY)

ALL STEEL AND ALUMINUM PIPE SHALL BE LOCK-SEAM OR WELDED-SEAM (HELICAL) CONSTRUCTION.

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRENCH CONSTRUCTION IS REQUIRED FOR CONDITIONS ON BOTH SIDES OF HEAVY LINE. SEE SHEET 1 OF 3.

FOR CONDITIONS TO RIGHT OF HEAVY LINE, CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO SPECIFICATIONS AND THIS STANDARD.

TABLE VALUES FOR ALUMINUM CORRUGATED PIPE (OR ALUMINUM SPIRAL RIB PIPE) ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, Fy=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (Fy=20,000 PSI), THE TABLE NO.1 ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:

A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 INCHES BECOMES 13.8

INCHES)
B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FEET BECOMES 29.7-34.0 FEET)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
CA.			

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Sheet:

80-005

CONSTRUCTION STANDARDS & DETAILS

MITCHELL BRIDGE
ROAD SHARED USE
PATH

ATHENS-CLARKE
COUNTY, GA



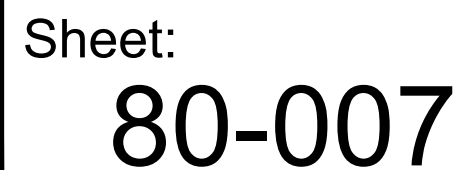
PROJECT INFORMATION

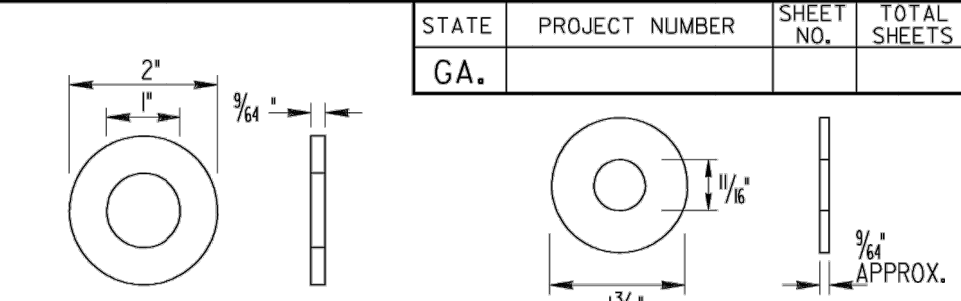
JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023



Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
P 706.722.4114
www.benesch.com

REVISION BLOCK





IF SLOTS IN SPECIAL END SHOE ARE 3' LONG
TP. A WASHERS ARE REQ'D UNDER SPLICE BOLT
HEADS & UNDER NUTS WITH 2' LONG SPLICE BOLTS.
IF END SHOE SLOTS ARE 1 1/8" LONG, USE NORMAL
SPLICE CONNECTIONS

(REQ'D. UNDER 5/8" HEX
NUTS AND AS SPECIFIED)

5/8" DIA. HEX NUT

2 1/2" MIN.
3 3/4" MAX.

POST BOLT SLOT SPLICE BOLT SLOT

RECESS NUT RECTANGULAR WASHER (GALV.)

(FOR USE AT TERMINAL POST OR
WHERE SPECIFIED)

BUTTON HEAD (OR
 SPLICE) BOLT
 (8 REQ'D PER SPLICE)

BUTTON HEAD (OR
 SPLICE) BOLT
 (8 REQ'D PER SPLICE)

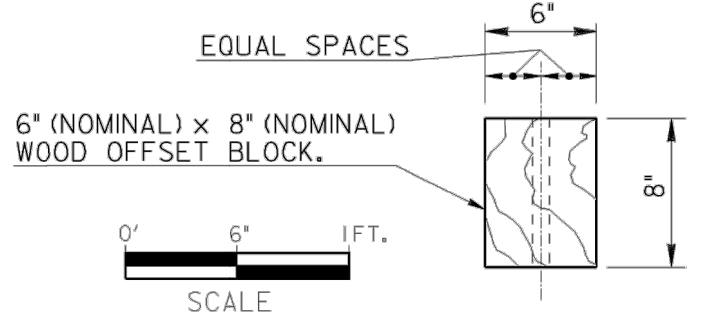
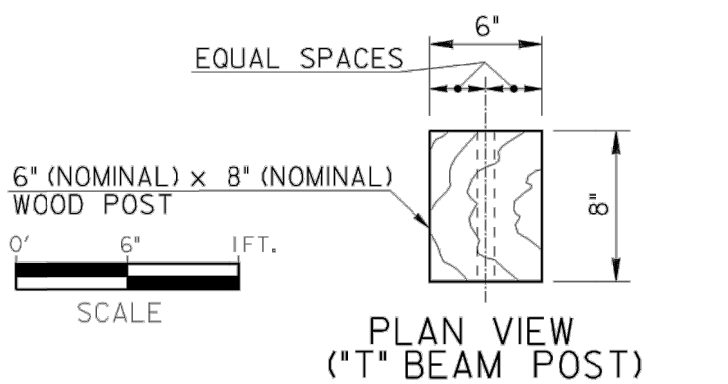
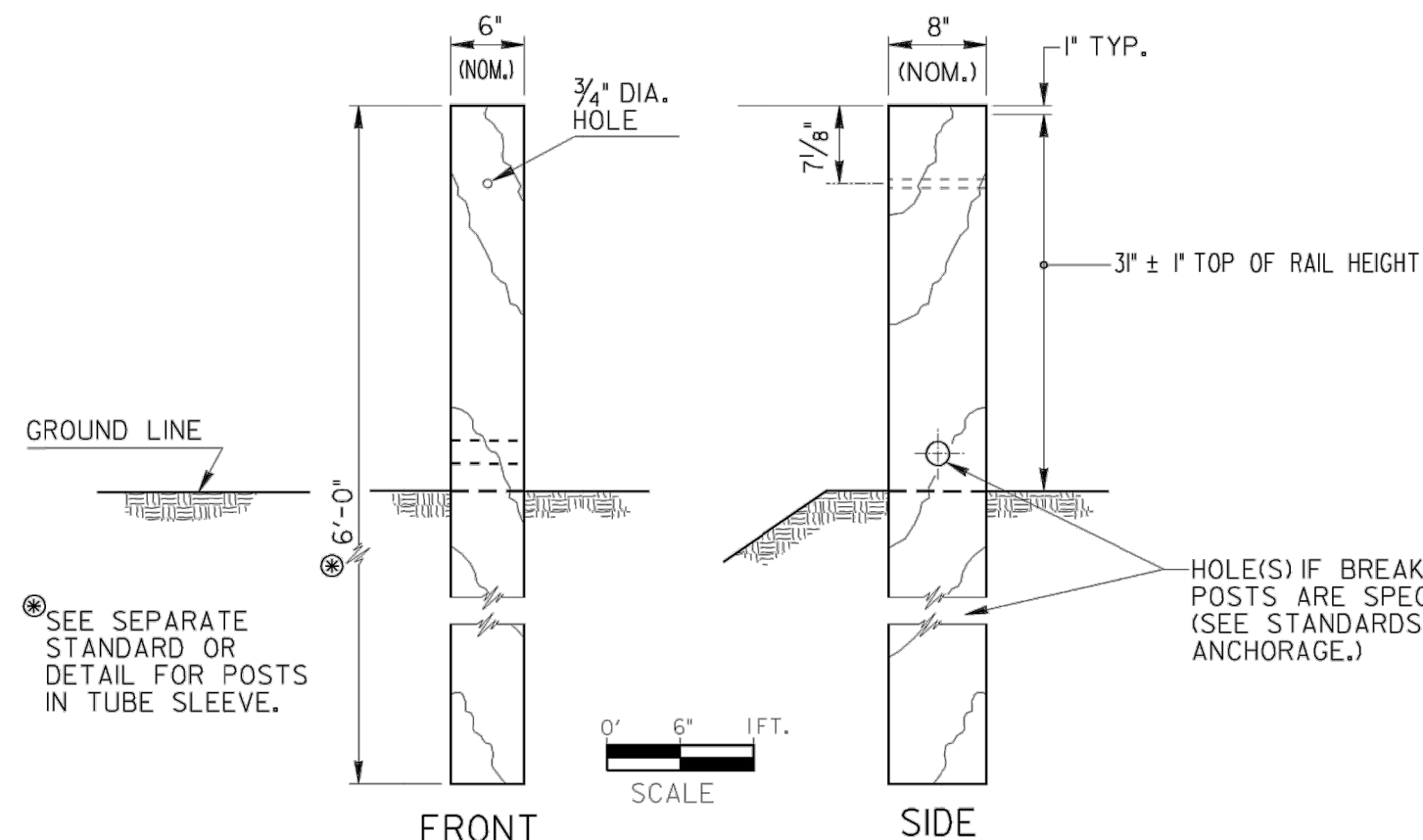
GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. NUTS, BOLTS, WASHERS, RAIL, TERMINAL SECTIONS, END SHOES, BACK-UP PLATES, END SECTIONS AND OTHER GUARDRAIL HARDWARE ARE IN ACCORDANCE WITH THE CURRENT ARTBTA TECHNICAL BULLETIN NO. 268 -- UNLESS SPECIFIED OTHERWISE, DIMENSIONS FOR POSTS AND OFFSET BLOCKS WILL BE ACCORDING TO GA STANDARD 438L.
3. FOR DETAILS OF GUARDRAIL ANCHORAGES, SEE APPLICABLE STANDARDS AND/OR CONSTRUCTION DETAILS.
4. FOR LOCATION OF GUARDRAIL SEE APPLICABLE LOCATION STANDARDS.
5. ALL STEEL HARDWARE COMPONENTS WILL BE GALVANIZED AFTER FABRICATION. GALVANIZING REPAIR COMPOUND (SEC. 645) WILL BE FIELD APPLIED TO ANY COATINGS DAMAGED.
6. WHEN GUARDRAIL IS REQUIRED ON CURVES WITH RADII LESS THAN 150', PRECURVED RAIL WILL BE REQUIRED.
7. PAYMENT FOR GUARDRAIL (Type "W") TO INCLUDE OFFSET BLOCKS, POSTS, BACK-UP PLATES WHERE REQUIRED, BOLTS, NUTS, WASHERS, TERMINAL SECTIONS, ADDITIONAL POSTS WHERE REQUIRED, LEAVE-OUTS INCLUDING GROUT WHERE REQUIRED, & REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS, OR CATCH BASINS WHERE NECESSARY.
8. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
9. STANDARD NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0". THESE LENGTHS SHALL BE ARRANGED TO PROVIDE AS NEARLY AS POSSIBLE THE REQUIRED LENGTH FOR EACH INSTALLATION.

		1-29-16	DATE		DEPARTMENT OF TRANSPORTATION	
					STATE OF GEORGIA	
			STANDARD			
			"W" BEAM GUARDRAIL			
			31 INCH GUARDRAIL HEIGHT			
			NO SCALE			
			AUGUST 2011			
			DES. G.L.O. (SUBMITTED) <i>[Signature]</i> DRW. G.L.O. STATE DESIGN POLICY ENGINEER CHK. B.R.E. (APPROVED) <i>Margaret B. Pirelo</i> REVIEW B.A.S. DIST. ENGINEER			
			NUMBER			
			4380			

3/4/2016 9:33:31 AM \\G00T-DSN\G0PLOT\OCE\G0C.qcd _bqar\es_Ps\Pol\cyl\Lighting\Standards\GA_Standards\4381\Rev\std_2016-1-29\4381_Rev\std_2016-1-29.pr

TYPE A WOOD POST (FOR "W" BEAM GUARDRAIL)
NOTE: WOOD POST ARE ALLOWABLE ONLY WHERE SPECIFIED.

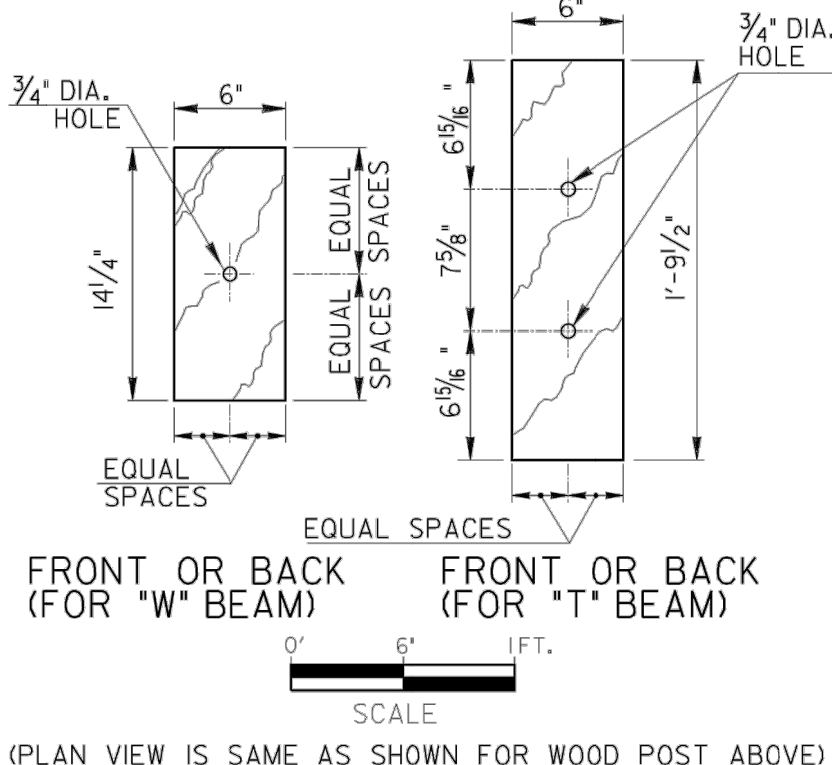


WOOD POSTS AND WOOD OFFSET BLOCKS MAY BE ROUGH OR SURFACED.

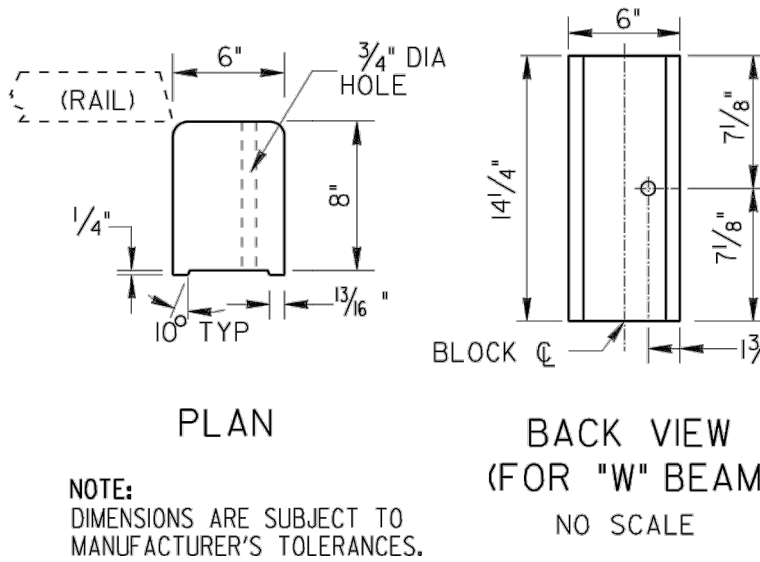
DIMENSIONS FOR WOOD POSTS AND WOOD OFFSET BLOCKS ARE NOMINAL IN ACCORDANCE WITH ACCEPTED LUMBER INDUSTRY STANDARDS.

NOTE: WHERE WOOD OFFSET BLOCK ON STEEL POST IS PERMITTED IN "W" BEAM INSTALLATION, A NAIL OR SCREW FROM POST TO WOOD IS REQUIRED TO PREVENT ROTATION OF THE BLOCK.

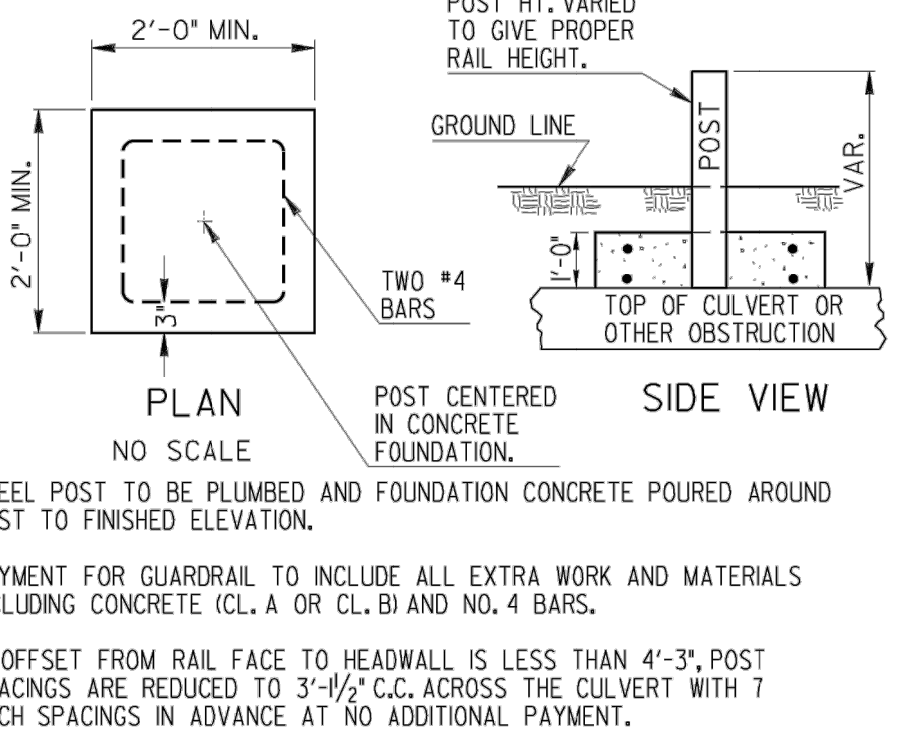
WOOD OFFSET BLOCKS
(WHERE PERMITTED, SEE NOTE 5(d))



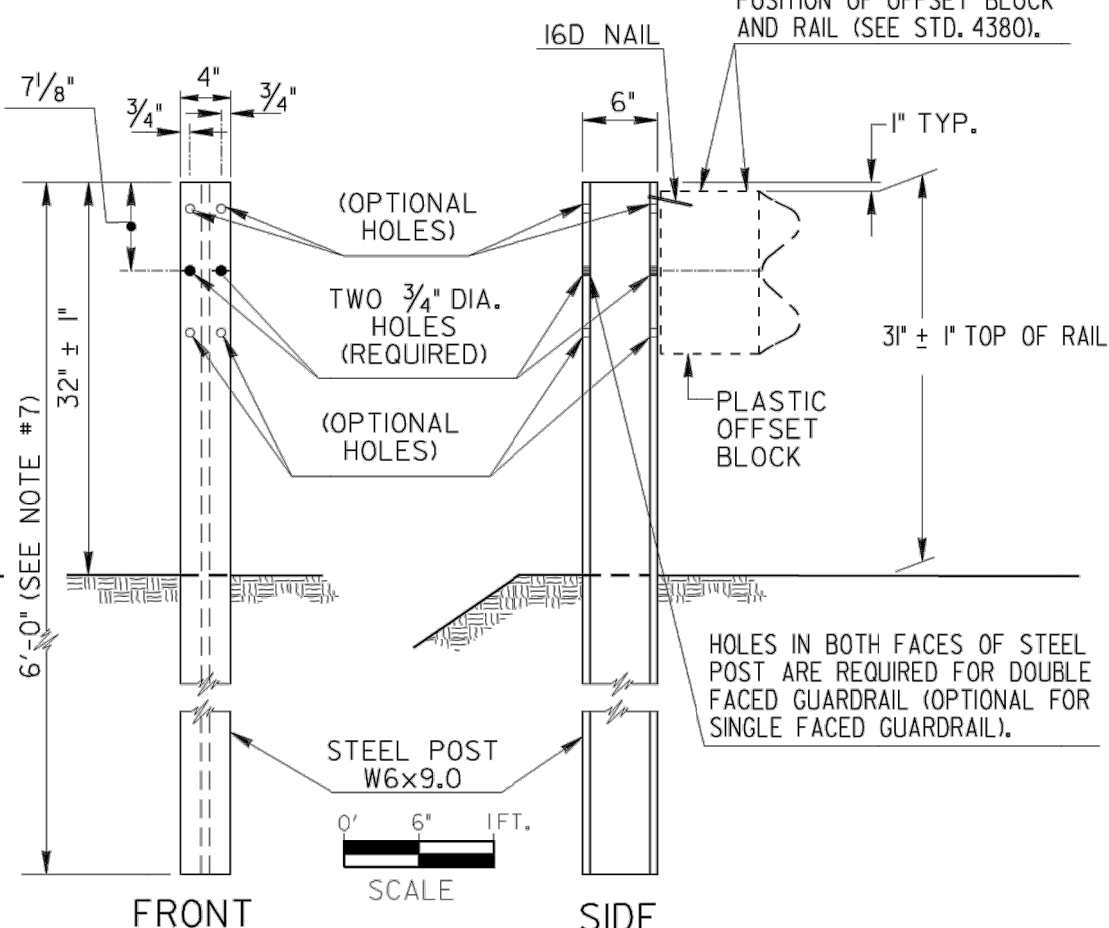
STANDARD PLASTIC OFFSET BLOCKS
NOTE: PLASTIC OFFSET BLOCKS SHALL BE OF TYPE LISTED IN GA DOT OR OF APPROVED PRODUCTS OR PER STANDARD SPECIFICATIONS.



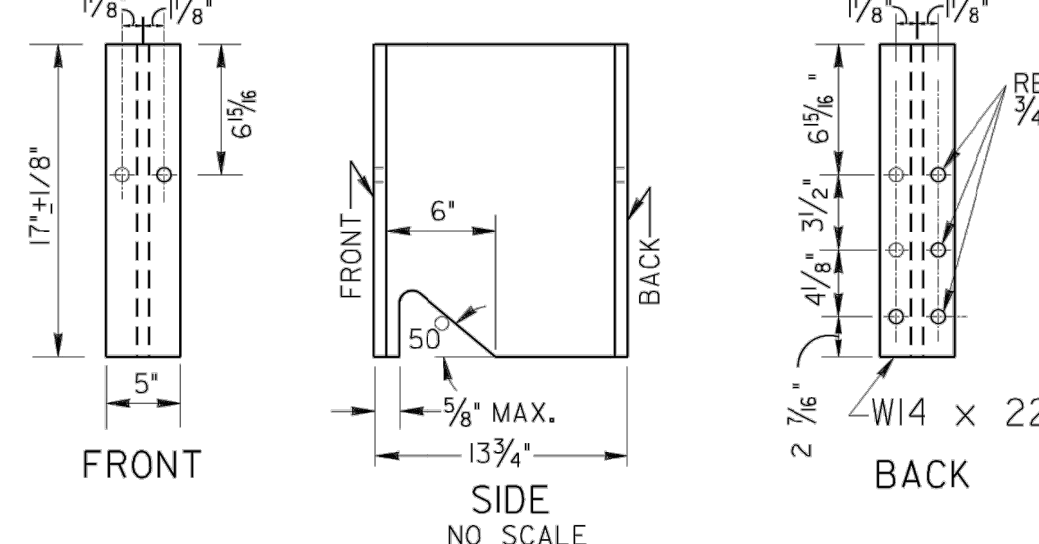
CONCRETE FOUNDATION FOR POST IN SHALLOW FILLS OVER CULVERTS OR OTHER OBSTRUCTIONS
(NOTE: PLATE MOUNTED POST MAY BE USED AS AN ALTERNATE, SEE SEPARATE SHEET).



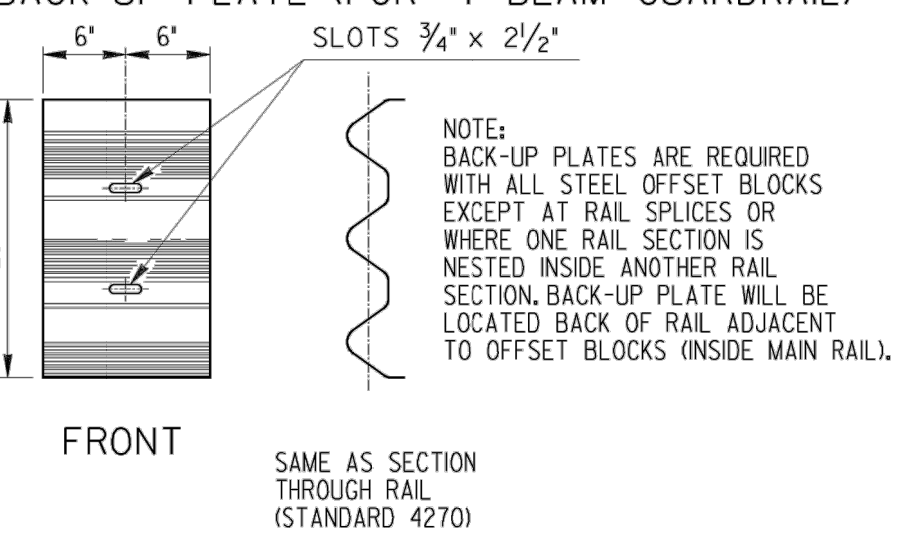
TYPE D STEEL POST (FOR "W" BEAM GUARDRAIL)



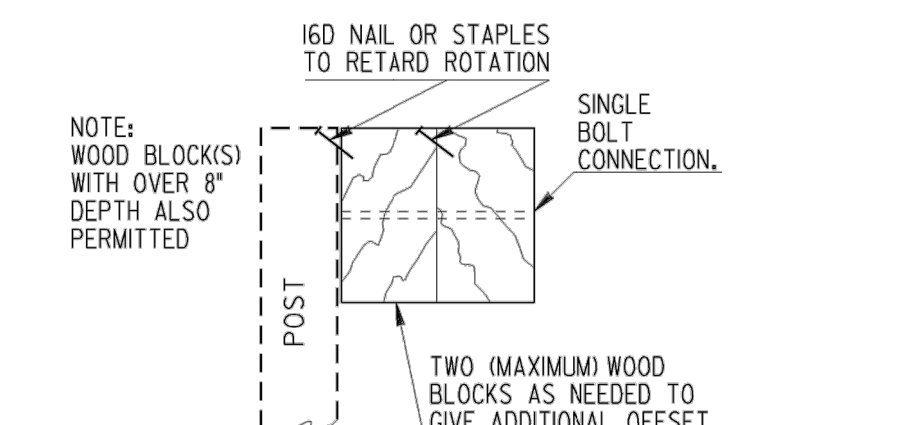
MODIFIED STEEL OFFSET BLOCK FOR "T" BEAM GUARDRAIL
NOTE: MODIFIED STEEL OFFSET BLOCK ARE USED ONLY WHERE SPECIFIED SEE NOTE 5(c)



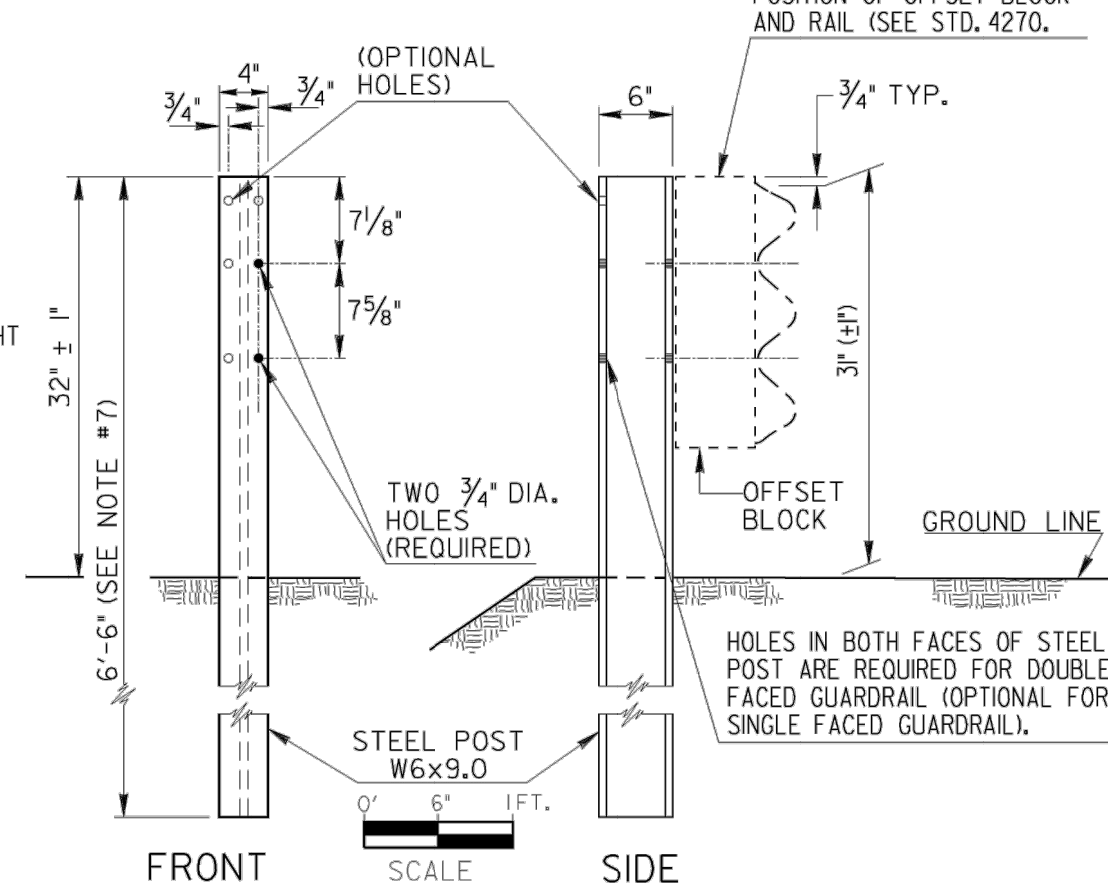
BACK-UP PLATE (FOR "T" BEAM GUARDRAIL)



ADDITIONAL DEPTH OFFSET BLOCKOUTS
(FOR USE WHERE GREATER THAN STANDARD OFFSET IS SPECIFIED)



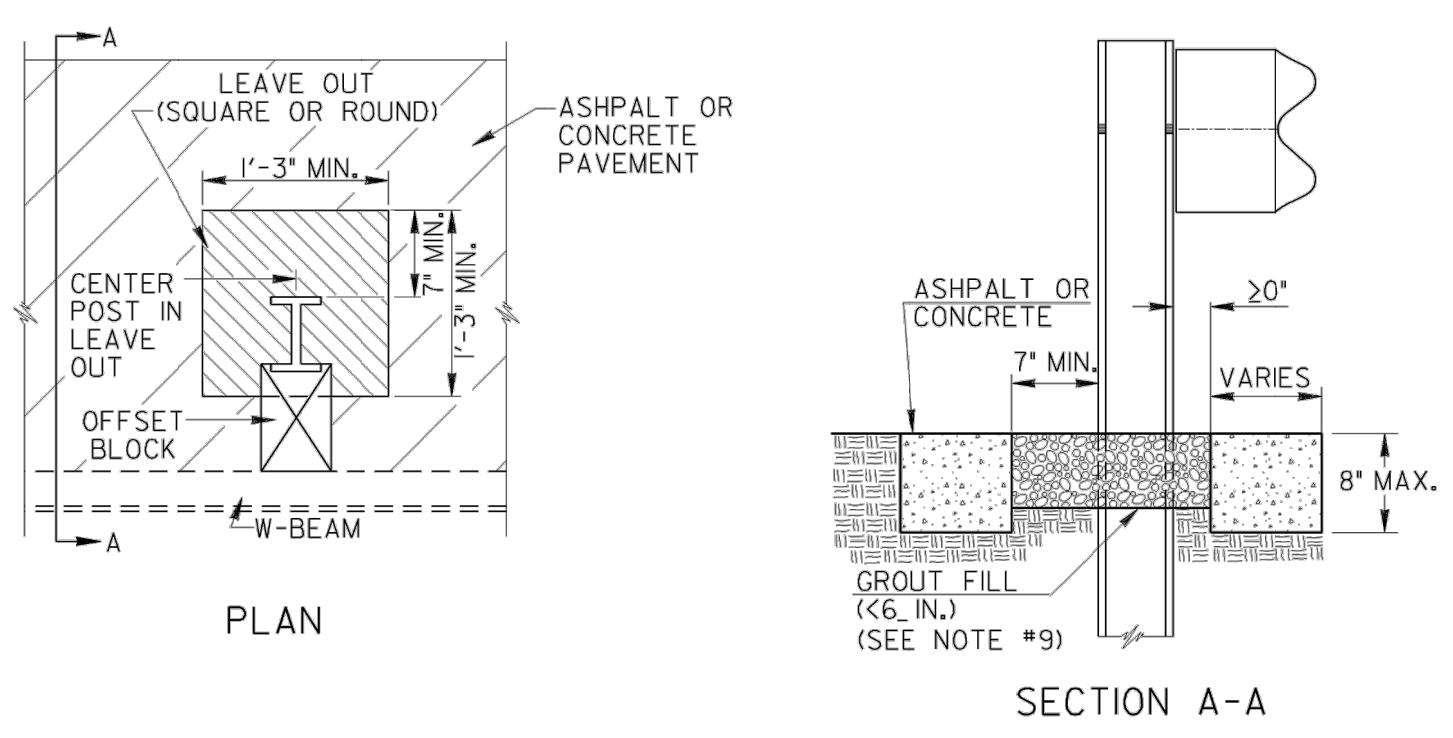
TYPE D-T STEEL POST (FOR "T" BEAM GUARDRAIL)



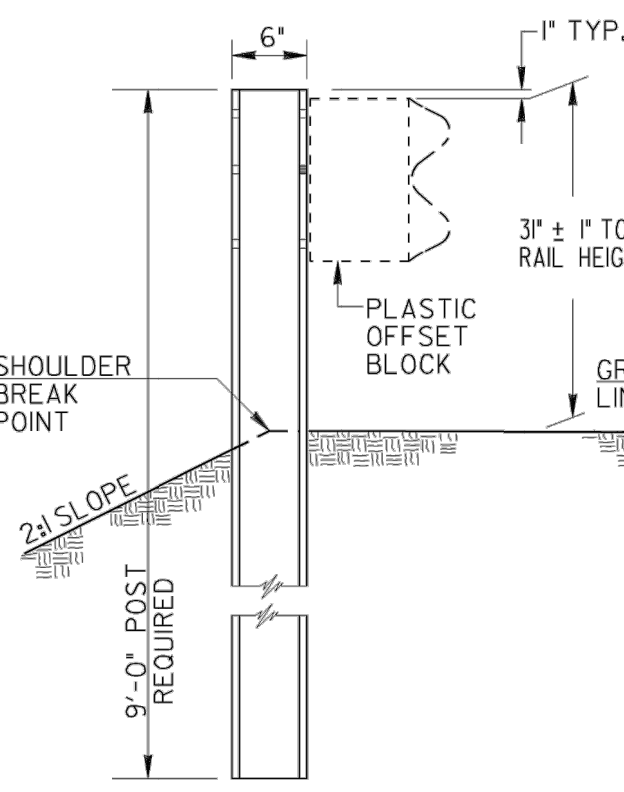
GENERAL NOTES:

- SPECIFICATIONS GEORGIA STANDARD, CURRENT EDITION AND SUPPLEMENTS THERETO.
- STEEL POSTS MAY BE EITHER ROLLED OR WELDED STRUCTURAL SHAPES. STEEL OFFSET BLOCKS SHALL BE ROLLED. WELDED POSTS SHALL BE SEAL WELDED BETWEEN WEB AND FLANGE BEFORE GALVANIZING.
- WHERE WOOD POST OR WOOD OFFSET BLOCKS ARE PERMITTED, THE WOOD SHALL BE TREATED IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS.
- ALL BOLTS USED FOR FASTENING THE RAIL AND OFFSET BLOCKS TO WOOD POSTS SHALL HAVE SUFFICIENT LENGTH TO EXTEND AT LEAST 1/4" BEYOND THE FULL NUT, UP TO 3" BEYOND.
- (a) "W" BEAM GUARDRAIL: ALL OFFSET BLOCKS SHALL BE 8" DEPTH PLASTIC BLOCKS EXCEPT FOR (d) BELOW.
(b) "T" BEAM GUARDRAIL: STANDARD INSTALLATION WILL USE 8" DEPTH PLASTIC BLOCKS UNLESS OTHERWISE APPROVED.
(c) 13 3/4" DEPTH MODIFIED STEEL OFFSETS MAY BE SPECIFIED WHERE JUSTIFIED FOR MORE SEVERE CONDITIONS. PAY ITEM IS --GUARDRAIL, TP T, MODIFIED OFFSET BLOCK---PER LIN. FT.
(d) WOOD OFFSET BLOCKS MAY BE USED ONLY AT AN ISOLATED LOCATION WITHIN A RUN OF GUARDRAIL, WHERE OTHER BLOCK TYPES WOULD NOT PROVIDE PROPER FIT, AS DETERMINED BY THE ENGINEER OR SHOWN IN THE PLANS.
- POSTS WILL BE SPACED AT 6'-3" C. TO C., UNLESS OTHERWISE NOTED.
- ADDITIONAL LENGTH POSTS, WHERE SPECIFIED, SHALL BE 7'-0" AND 7'-6" LONG FOR "W" BEAM AND "T" BEAM GUARDRAILS RESPECTIVELY, WITH HOLES DIMENSIONED FROM THE POST-TOP THE SAME AS SHOWN.
- 9'-0" POST REQUIRED IF GUARDRAIL INSTALLED ON A 2:1 SLOPE.
- GROUT FILL SHALL BE A CONTROLLED LOW STRENGTH FLOWABLE FILL THAT HAS A MAXIMUM 28-DAY COMPRESSIVE STRENGTH OF 100 P.S.I. ACCORDING TO SPEC. 600.

GUARDRAIL POST DETAILS IN ASPHALT OR CONCRETE PAVEMENT APPLICATIONS



2:1 SLOPE DETAIL



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

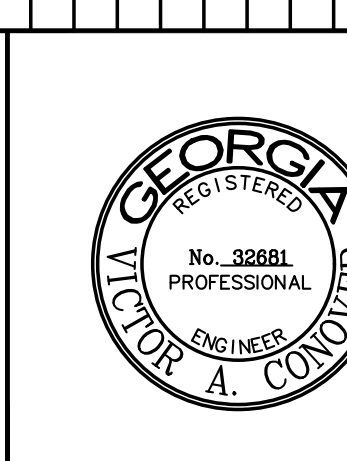
STANDARD
POSTS AND OFFSET BLOCKS
FOR "W" & "T" BEAM GUARDRAIL
31 INCH GUARDRAIL HEIGHT

SCALE: AS SHOWN AUGUST 2011

DES.	G.L.O.	(SUBMITTED)	STATE DESIGN POLICY ENGINEER	NUMBER
DRW.	G.L.O.	(APPROVED)	MANOAB PUELLO	4381
CHK.	B.R.E.	(APPROVED)	MANOAB PUELLO	
REV.	B.A.S.	(APPROVED)	MANOAB PUELLO	



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



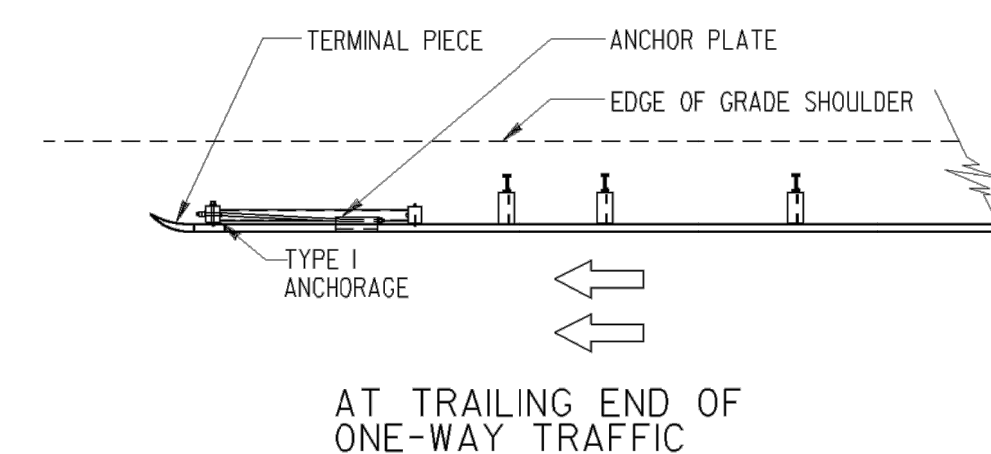
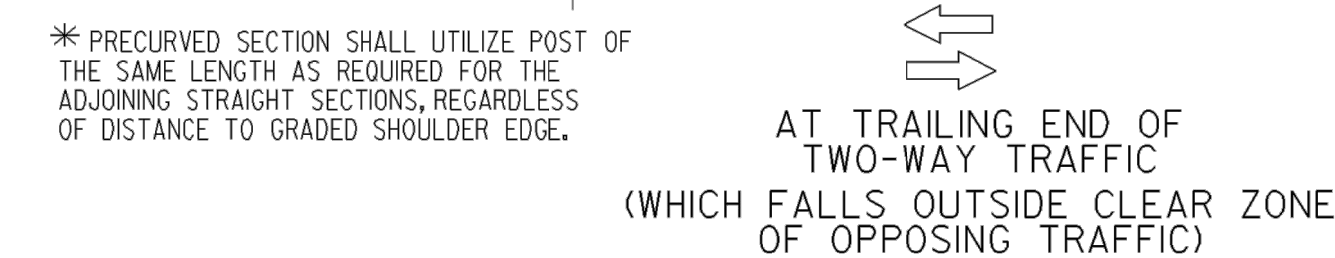
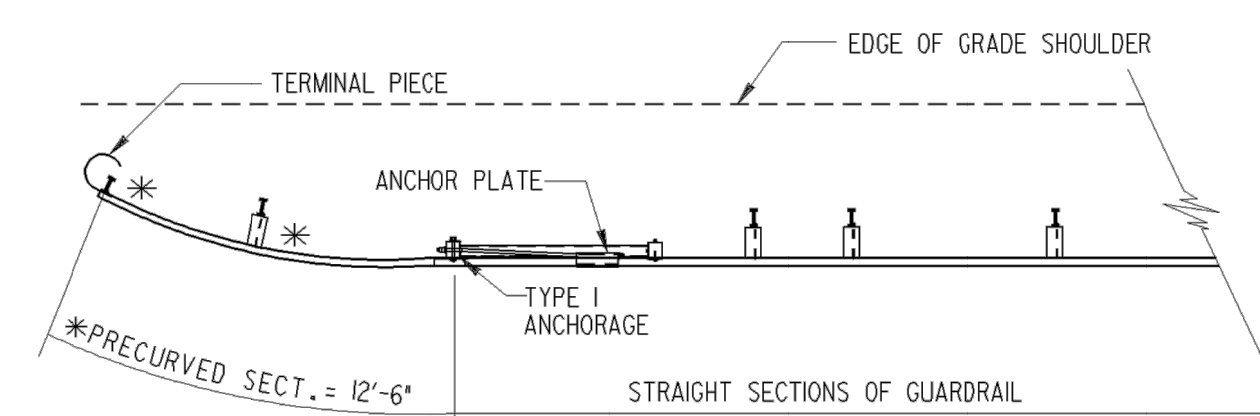
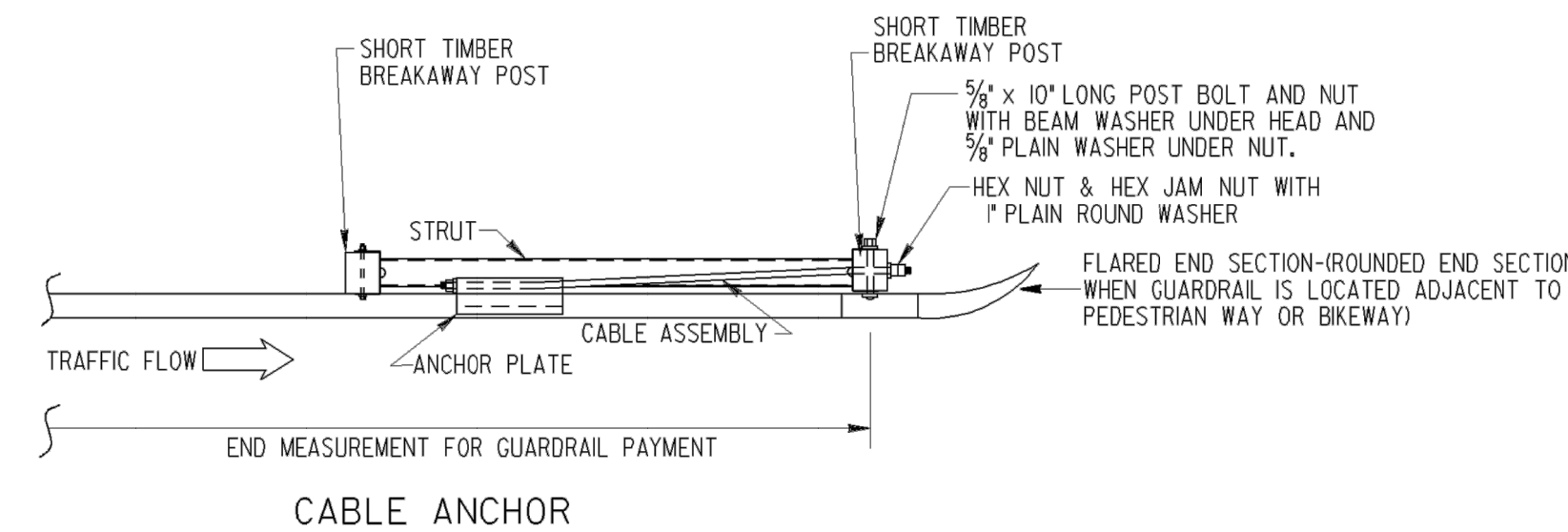
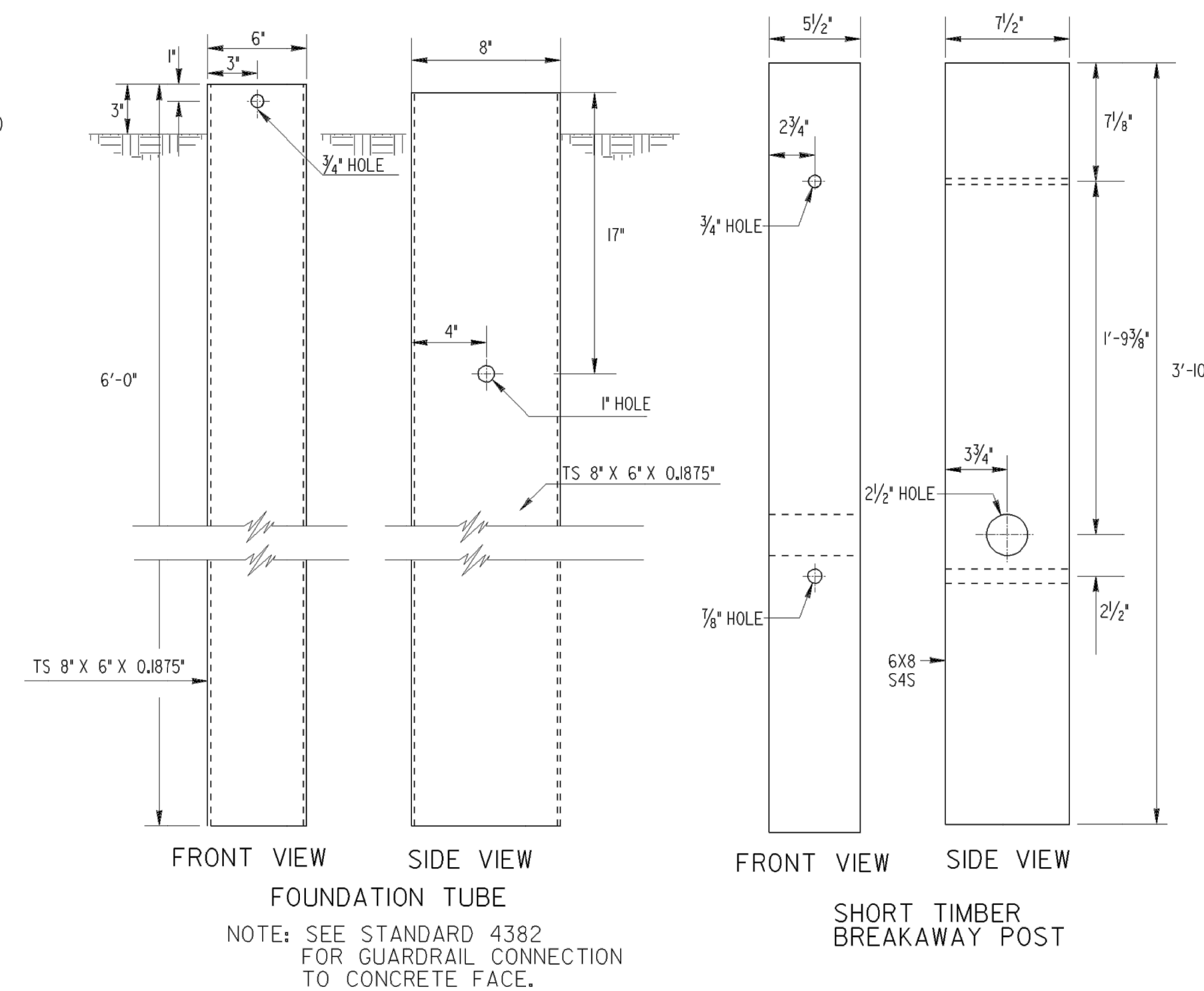
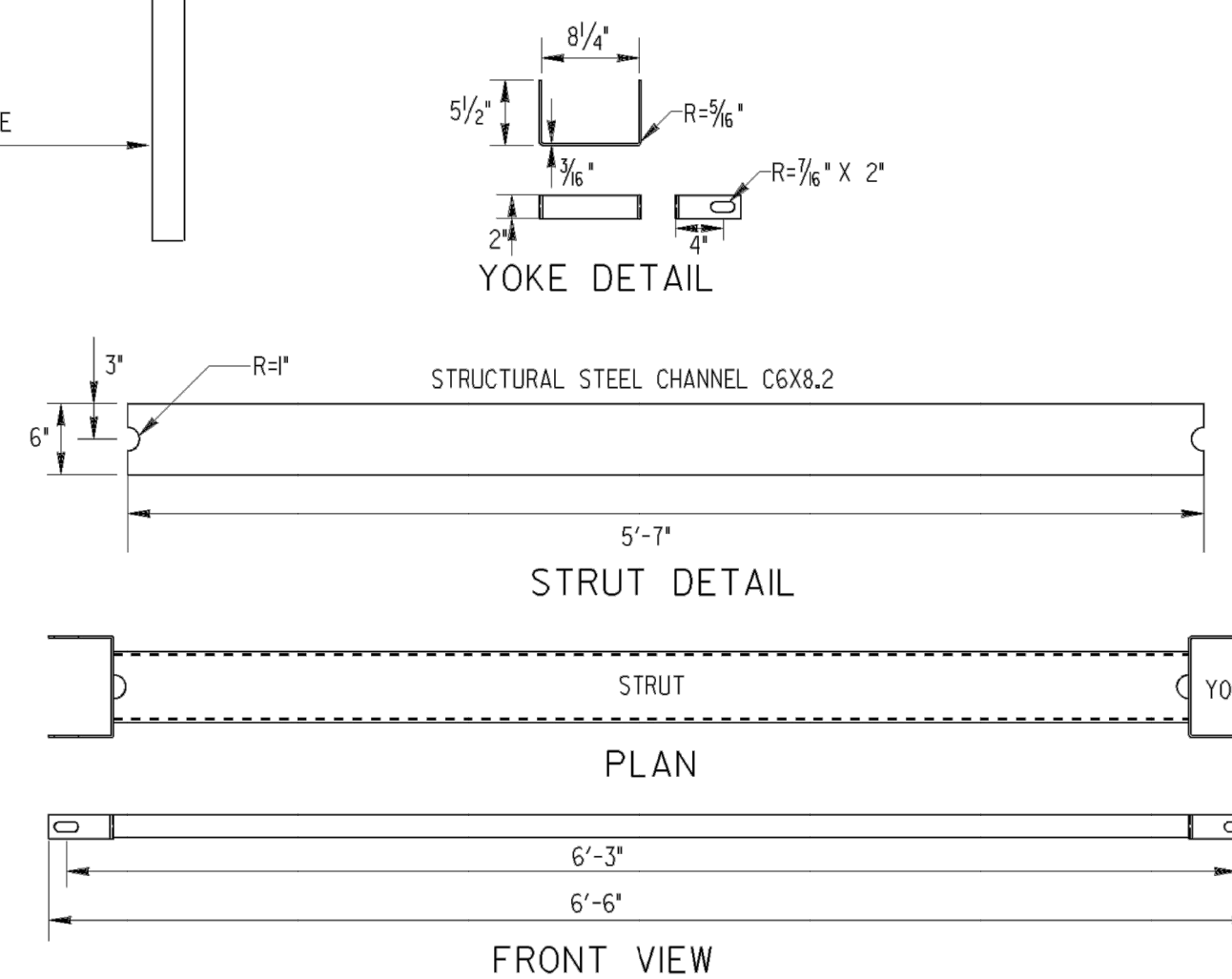
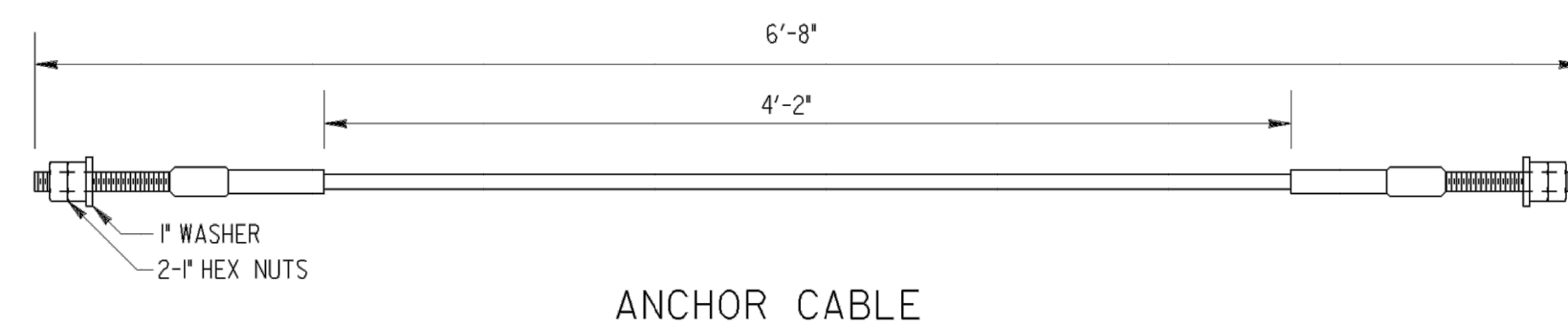
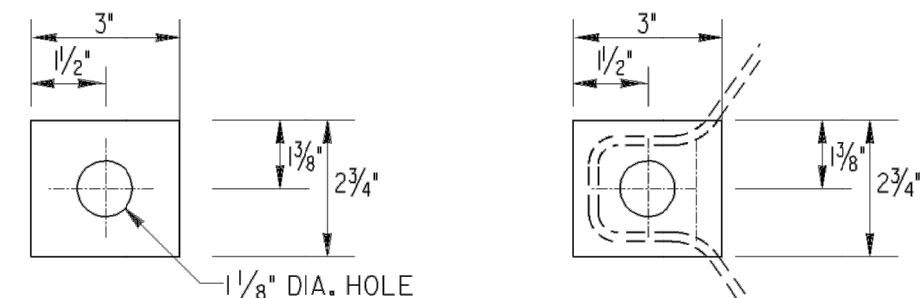
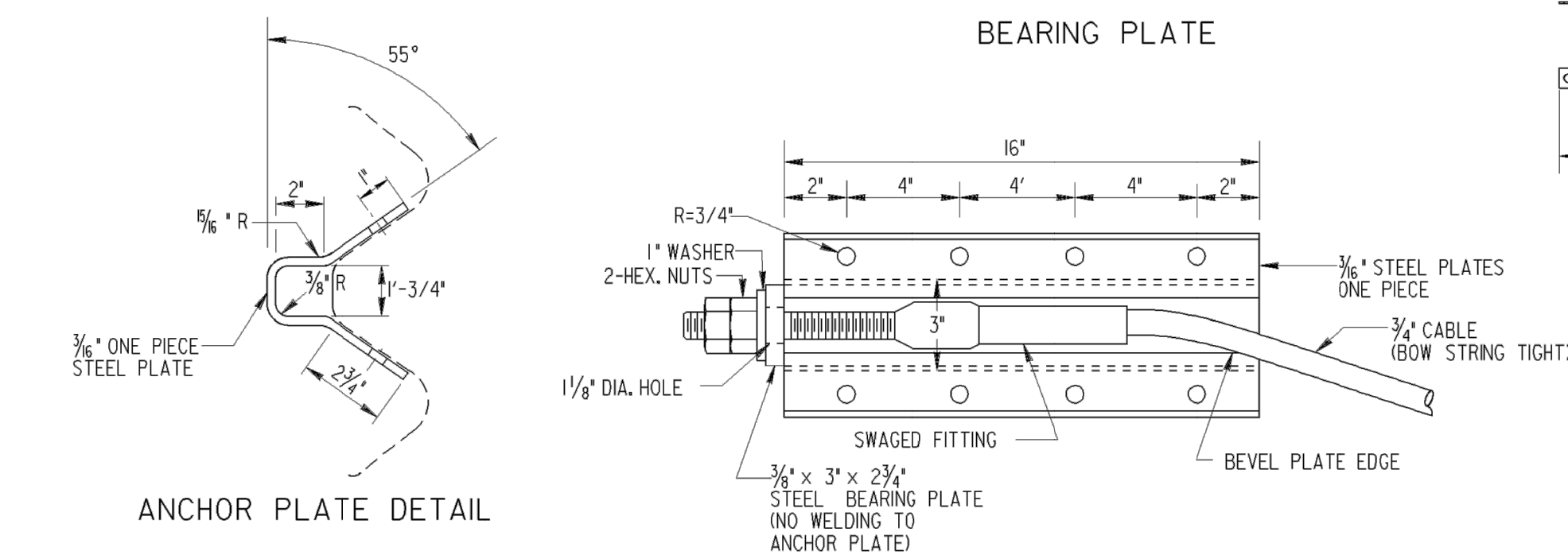
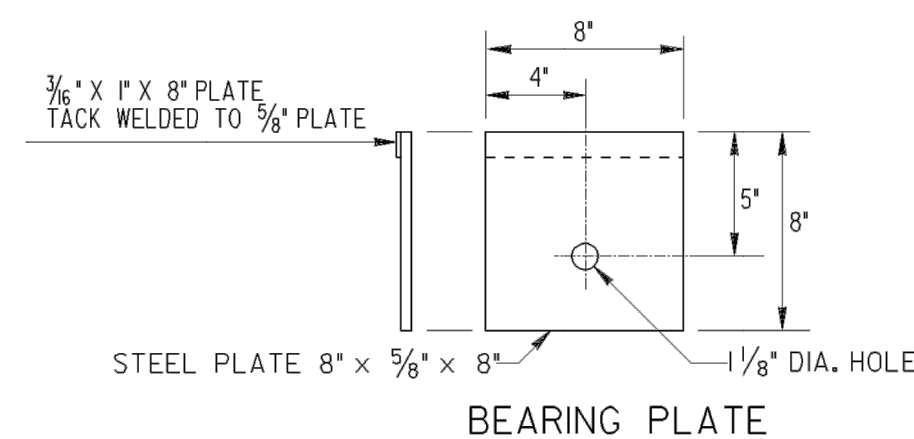
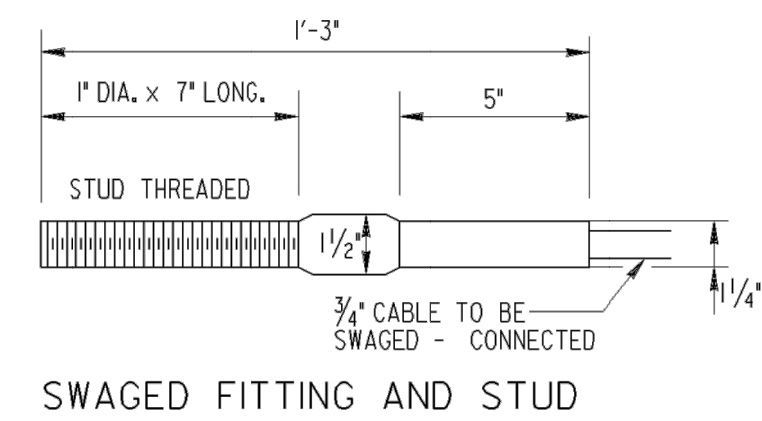
ATHENS-CLARKE COUNTY, GA

CONSTRUCTION STANDARDS & DETAILS

MITCHELL BRIDGE ROAD SHARED USE PATH

PROJECT INFORMATION
JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
80-009



NOTE:
SEE STD. 4388 OR OTHER APPLICABLE DETAILS FOR
REQUIREMENT FOR TYPE 12 ANCHORAGE ON THE
TRAILING END.

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERE TO.
2. FOR DETAILS OF GUARDRAIL HARDWARE, POST, OTHER TYPE ANCHORAGE, LOCATION, ETC., SEE SEPARATE STANDARDS AS APPLICABLE.
3. GUARDRAIL INSTALLATIONS, INCLUDING ANCHORAGES AND CONNECTIONS, ARE TO BE COMPLETED BEFORE BEING SUBJECT TO TRAFFIC UNLESS OTHERWISE APPROVED.
4. PAYMENT FOR ANCHORAGE INCLUDES ANCHOR PLATE; 3/4" CABLE; BREAKAWAY POSTS; FOUNDATION TUBES; STRUT AND ALL ACCOMPANYING HARDWARE.

			DATE	DEPARTMENT OF TRANSPORTATION		
				STATE OF GEORGIA		
				STANDARD		
			REVISION	GUARDRAIL ANCHORAGE TYPE I 31 INCH GUARDRAIL HEIGHT		
				NO SCALE		AUGUST 20
			DES. G.L.O. (SUBMITTED)	<i>B. H. H. H.</i>		NUMBER
			DRW. G.L.O.	STATE DESIGN POLICE ENGINEER		
			CHK. B.R.E.	<i>Dwight M. Run</i>		4383
			REVIEW B.A.S. (APPROVED)	CHIEF ENGINEER		

[illegible]

ATHENS-CLARKE
COUNTY, GA

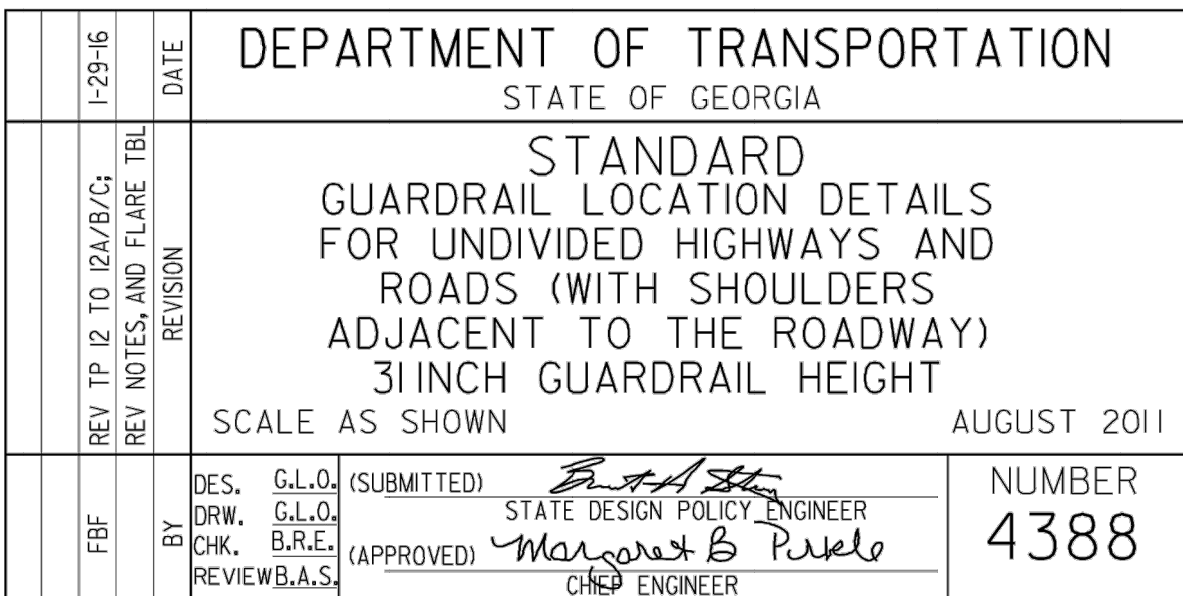


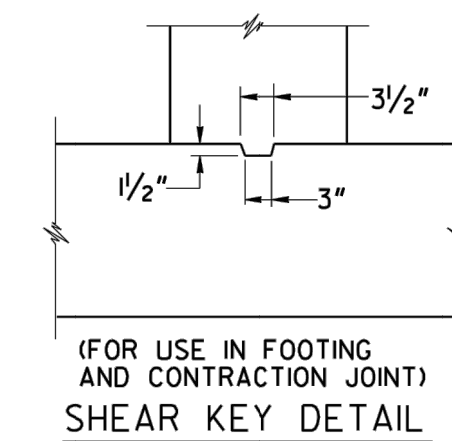
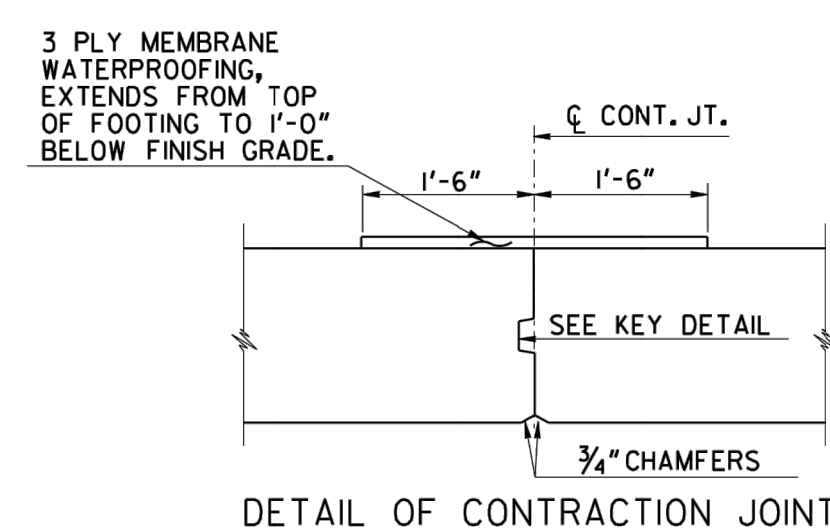
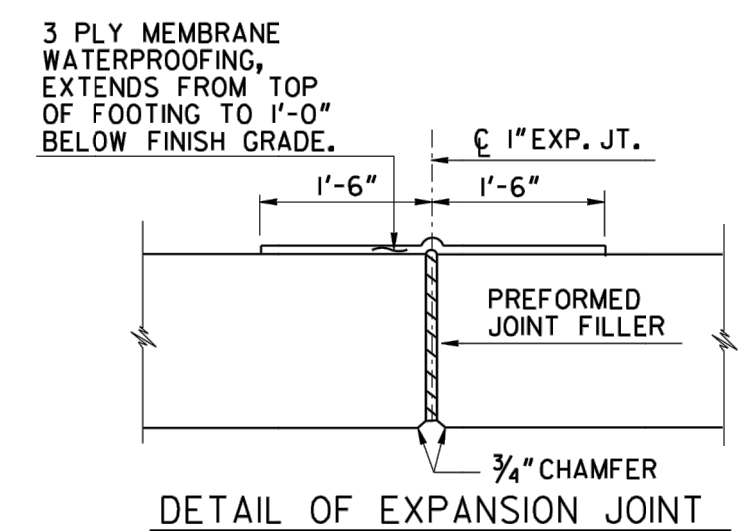
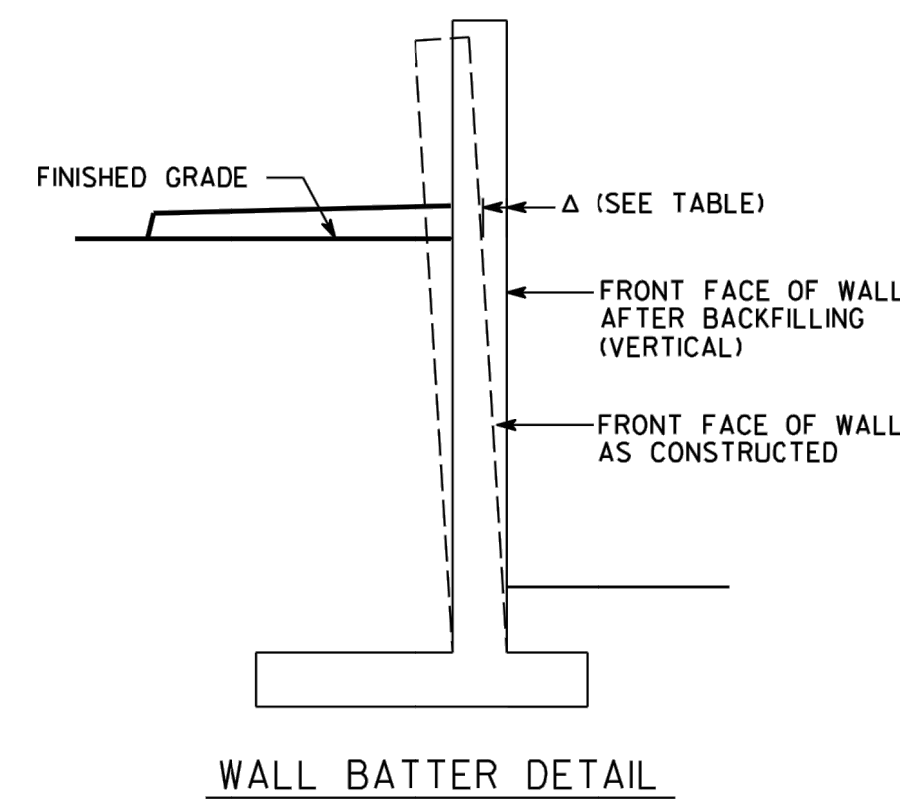
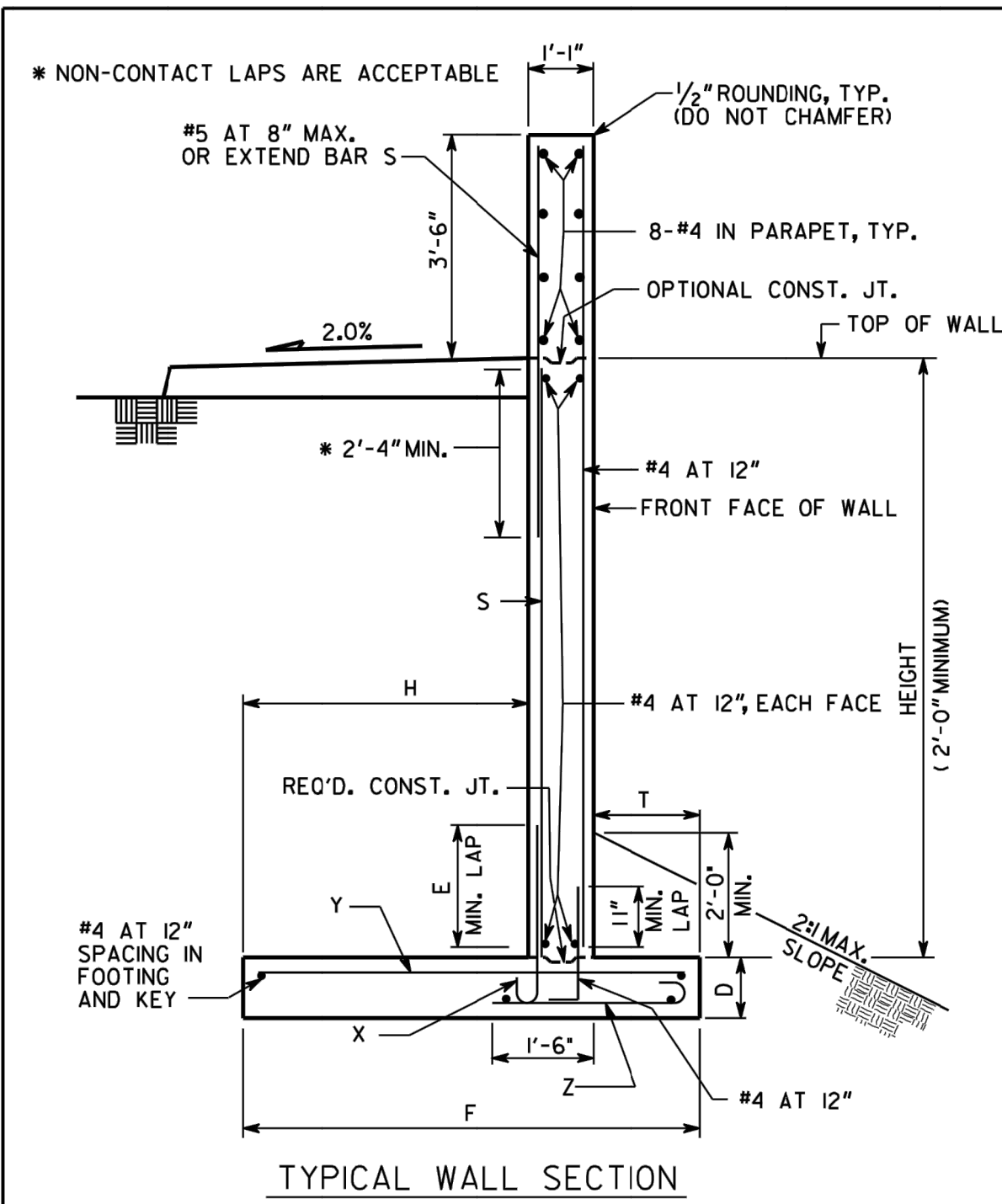
HEET TITLE: CONSTRUCTION STANDARDS & DETAILS

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

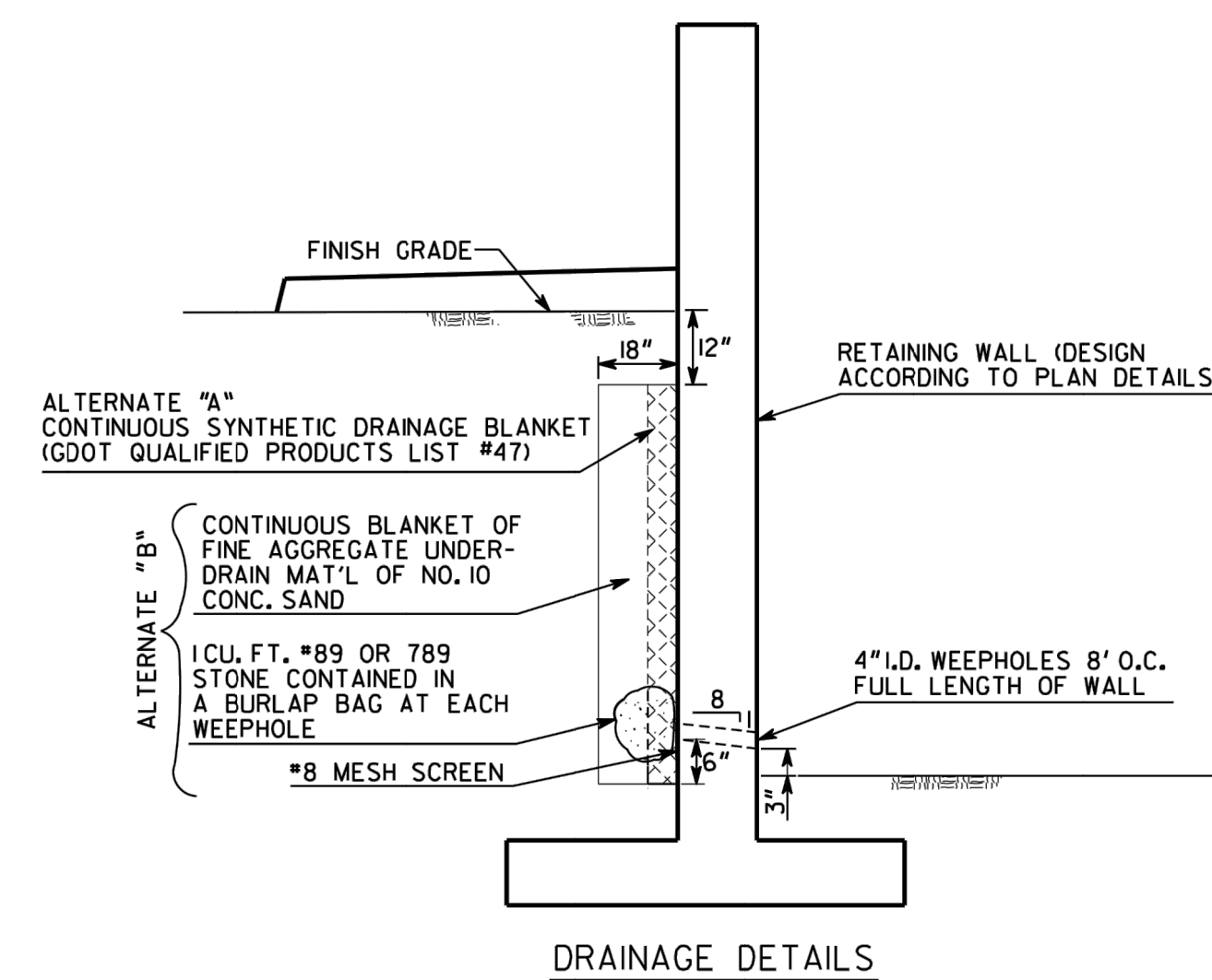
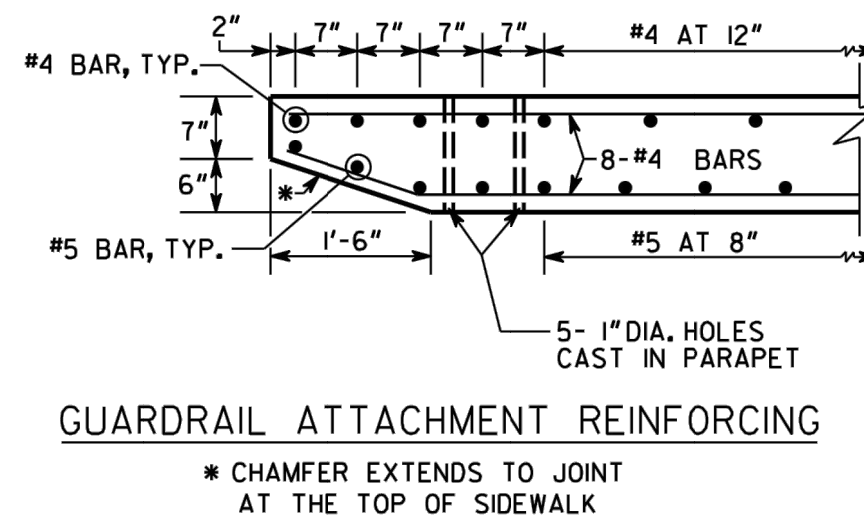
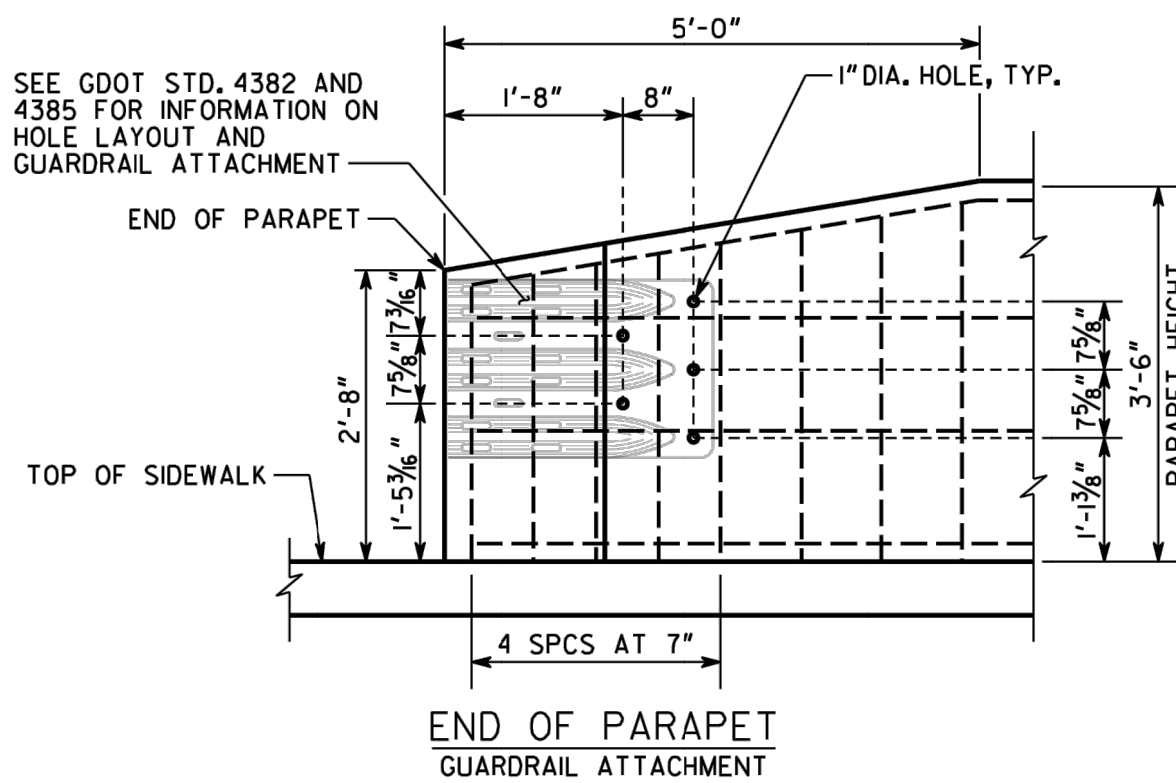
PROJECT INFORMATION	
JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023	

Sheet:
80-010





MAX. HEIGHT	WALL DIMENSIONS					REINFORCEMENT				Δ (INCHES)	MAX. FACTORED BEARING PRESSURE	TYPE
	D	E	F	H	T	S	X	Y	Z			
6'	1'-0"	2'-4"	6'-10"	4'-9"	1'-0"	#5 AT 8"	#5 AT 8"	#4 AT 8"	#4 AT 12"	0"	2.3 KSF	P1
8'	1'-0"	2'-4"	7'-3"	5'-2"	1'-0"	#5 AT 8"	#5 AT 8"	#5 AT 8"	#4 AT 12"	1/8"	2.6 KSF	P2
10'	1'-3"	2'-4"	8'-6"	6'-5"	1'-0"	#6 AT 7"	#5 AT 7"	#5 AT 7"	#4 AT 12"	1/4"	2.9 KSF	P2
12'	1'-3"	2'-9"	10'-0"	7'-8"	1'-3"	#6 AT 7"	#6 AT 7"	#6 AT 7"	#4 AT 12"	1/6"	3.2 KSF	P3
14'	1'-3"	3'-2"	11'-7"	8'-6"	2'-0"	#7 AT 6"	#7 AT 6"	#7 AT 6"	#4 AT 12"	1/6"	3.3 KSF	P3



- GENERAL NOTES:
- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
 - CONCRETE SHALL BE CLASS "A". REINFORCING STEEL SHALL BE GRADE 60.
 - DRAINAGE DETAIL ALTERNATES A OR B, PER THE DETAIL ON THIS SHEET, ARE REQUIRED FOR TYPE P1, P2, AND P3 RETAINING WALLS. INCLUDE COSTS OF MATERIALS AND WORK IN PRICE BID FOR CLASS A CONCRETE, (TYPE) RETAINING WALL.
 - MAINTAIN 2" COVER ON ALL REINFORCING IN STEM AND PARAPET AND 3" COVER IN FOOTING. USE OF FORMLINERS PER THE CONTRACT WILL REQUIRE OVERALL STEM AND PARAPET WIDTHS TO BE INCREASED TO MAINTAIN COVER.
 - EXPOSED CONCRETE SURFACES SHALL RECEIVE A TYPE III FINISH UNLESS A FORMLINER IS REQUIRED PER THE CONTRACT.
 - APPLY A GRAFFITI PROOF COATING AS PER SECTION 838 TO ALL EXPOSED CONCRETE SURFACES.
 - PARAPET WALLS OVER 20'-0" IN LENGTH SHALL HAVE CONTRACTION JOINTS SPACED AT A MAXIMUM OF 20'-0". CONTRACTION JOINTS SHALL EXTEND THROUGH THE PARAPET, AND STEM. PARAPET WALLS OVER 80'-0" IN LENGTH SHALL HAVE EXPANSION JOINTS SPACED UNIFORMLY AT A MAXIMUM SPACING OF 80'-0" WITH 1" PREFORMED JOINT FILLER EXTENDING THROUGH PARAPET, STEM, AND FOOTING AT EACH EXPANSION JOINT. GALVANIZED 10# NAILS SHALL BE USED TO INSTALL EXPANSION MATERIAL.
 - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS. STEM LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH CONTRACTION JOINTS. LONGITUDINAL REINFORCING SHALL BE LAP SPICED 2'-5". LONGITUDINAL FOOTING REINFORCING SHALL BE CONTINUOUS BETWEEN EXPANSION JOINTS. WHEN FOOTING SIZE CHANGES, LONGITUDINAL REINFORCING FOR SMALLER FOOTING SHALL EXTEND 1'-10" MINIMUM INTO LARGER FOOTING.
 - EXPANSION AND CONTRACTION JOINTS IN TYPE P1, P2, AND P3 RETAINING WALLS SHALL BE WATERPROOFED ON THE BACK SIDE. WATERPROOFING SHALL BE 3-PLY AND EXTEND FROM 1'-0" BELOW FINISH GRADE TO TOP OF FOOTING FOR 1'-6" MIN. EACH SIDE OF JOINT.
 - TYPE P1, P2, AND P3 RETAINING WALLS SHALL BE PAID FOR PER LINEAR FOOT AS CLASS A CONCRETE, (TYPE) RETAINING WALL. INCLUDE COSTS FOR WATERPROOFING, EXCAVATION, BACKFILLING, CONCRETE, REINFORCING STEEL AND ALL INCIDENTALS IN THE PRICE BID.
 - TYPE P1, P2, AND P3 RETAINING WALLS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017. THE PARAPETS INCLUDED IN THE DESIGN HAVE BEEN CERTIFIED BY THE DEPARTMENT TO SATISFY MASH TL-4 REQUIREMENTS FOR PROJECTS IN GEORGIA.
 - RETAINING WALLS DESIGNED FOR THE FOLLOWING SOIL PROPERTIES:

FOUNDATION	BACKFILL
COHESION = 0 KSF	0 KSF
φ = 28°	28°
UNIT WT. = 0.120 KCF	0.120 KCF
 - WIRE FABRIC REINFORCING OR ALTERNATE REBAR SIZE/SPACING MAY BE USED IF DETAILS ARE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO USE.
 - WHERE GUARDRAIL ATTACHMENT IS REQUIRED, PAYMENT FOR THE FIVE 1" DIA. HOLES, PROPERLY LOCATED FOR CONNECTING THE SPECIAL END SHOE SHALL BE INCLUDED IN THE PRICE BID FOR CLASS A CONCRETE, (TYPE) RETAINING WALL BASED ON STEM HEIGHT REQUIRED. SHIFT PARAPET REINFORCING TO MISS BOLT HOLES AS REQUIRED.

DATE		DEPARTMENT OF TRANSPORTATION	
REVISION		STATE OF GEORGIA	
BY		STANDARD	
DES. DDF.		PARAPET RETAINING WALL	
DRW. DDF.		TYPES P1, P2, AND P3	
CHK. CEW.		NO SCALE	
REV. WMD/BAS		MAY 2020	
		NUMBER	
		4949D	



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



ATHENS-CLARKE COUNTY, GA

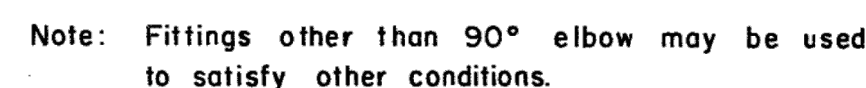
CONSTRUCTION STANDARDS & DETAILS

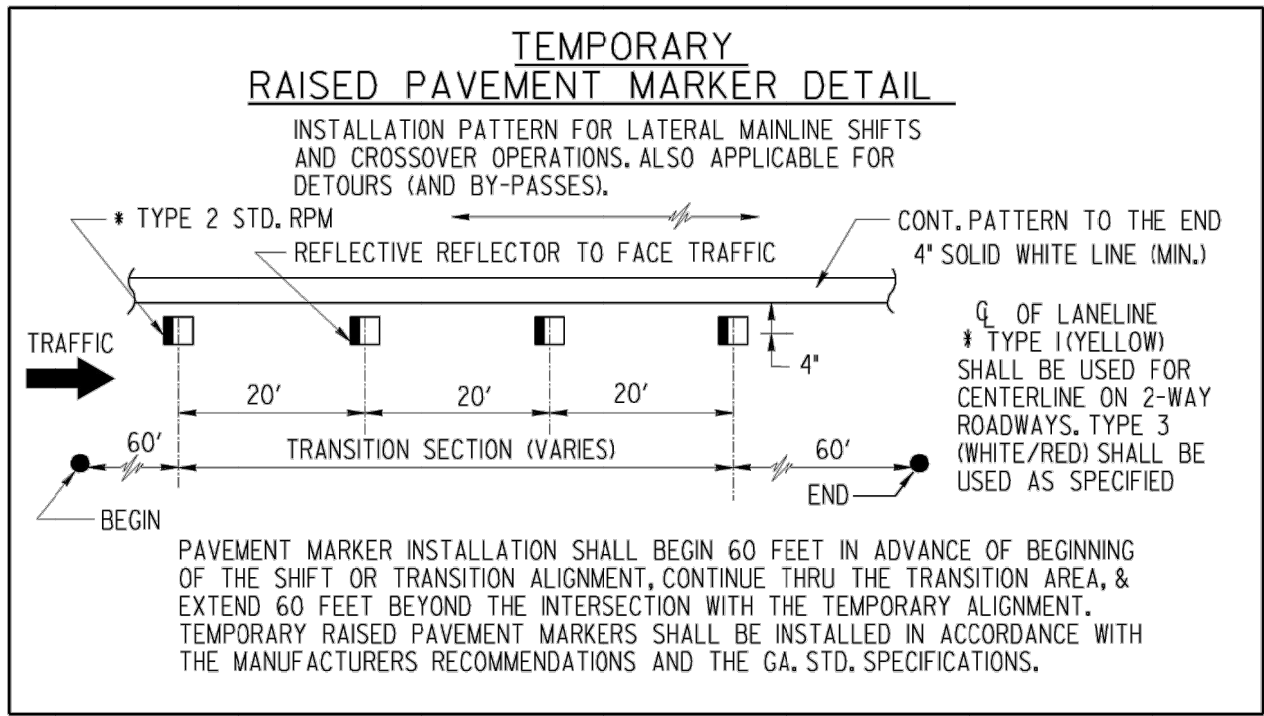
MITCHELL BRIDGE ROAD SHARED USE PATH

PROJECT INFORMATION	
JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE:	AUGUST 16, 2023

Sheet:

80-012





- STRIPED DRUM
- ▨ TYPE III BARRICADES
- × SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE 'C' STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
- ⬢ SEQUENTIAL OR FLASHING ARROW
- ⌈ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊕ PERMANENT TYPE POST MOUNTED SIGN
- ⊙ TEMPORARY POST MOUNTED SIGN
- Ⓚ PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
- ▨ WORK AREA
- ▲ TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
- ⚑ FLAGGER WITH STOP-SLOW PADDLE
- ⊞ TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
- TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
- TYPE I YELLOW DELINEATOR - SINGLE FACE
- TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
- TYPE I YELLOW DELINEATOR DOUBLE FACE

STANDARD LEGEND

GENERAL NOTES :

- ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
- ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
- WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPs OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPs/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
- FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
- SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
- A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
- WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
- PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS - AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS, UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND. THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
- ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150. LUMP SUM. WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL. OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED. EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
- FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMPs AT ALL TIMES.
- ALL CROSSROADS, SIDEROADS, RAMPs OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED; APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
- ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
- CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
- THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES. REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
- EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER. IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
- (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.
- (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
P 706.722.4114
www.benesch.com

ATHENS-CLARKE
COUNTY, GA



SHEET TITLE:
CONSTRUCTION STANDARDS &
DETAILS

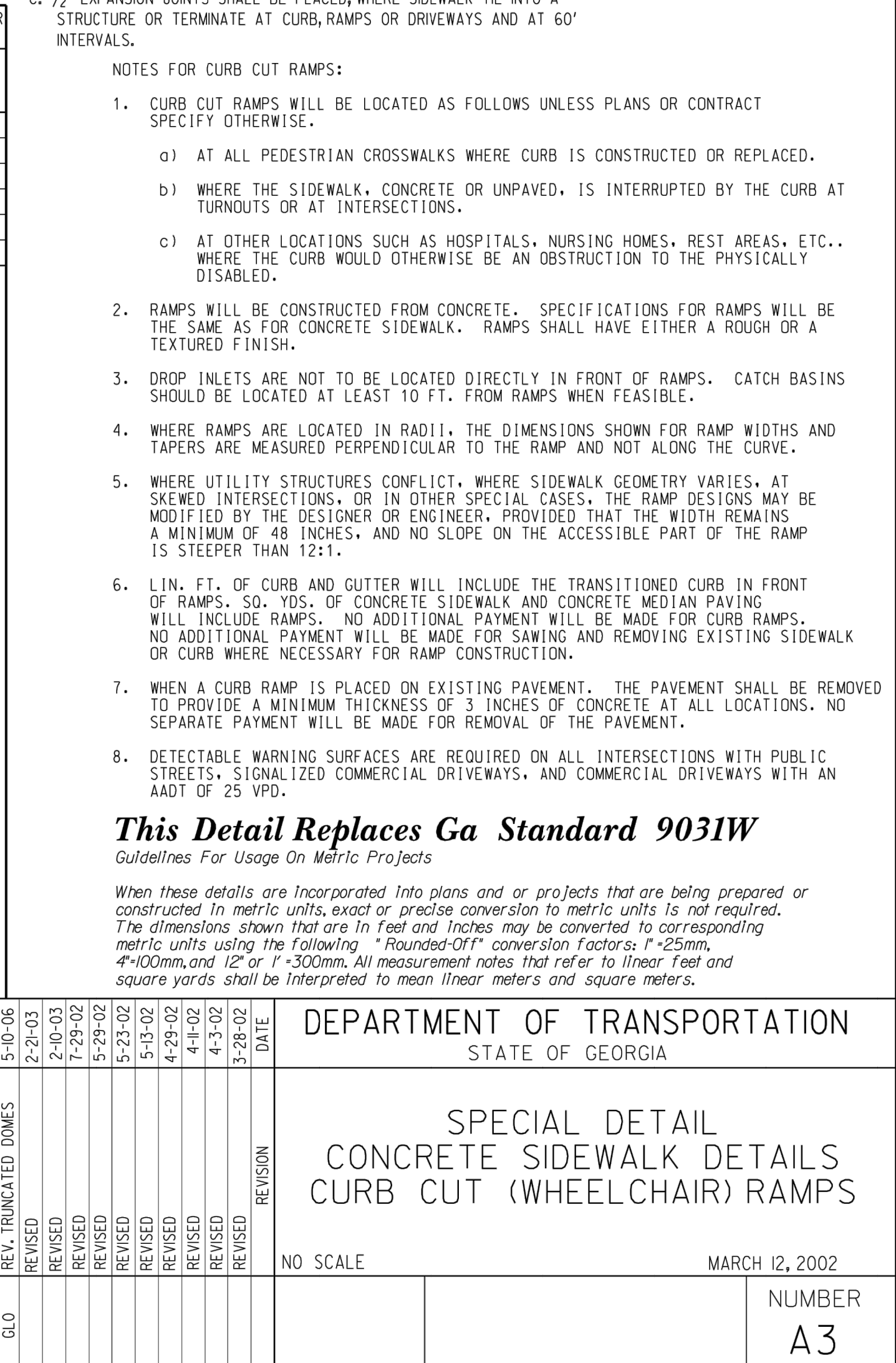
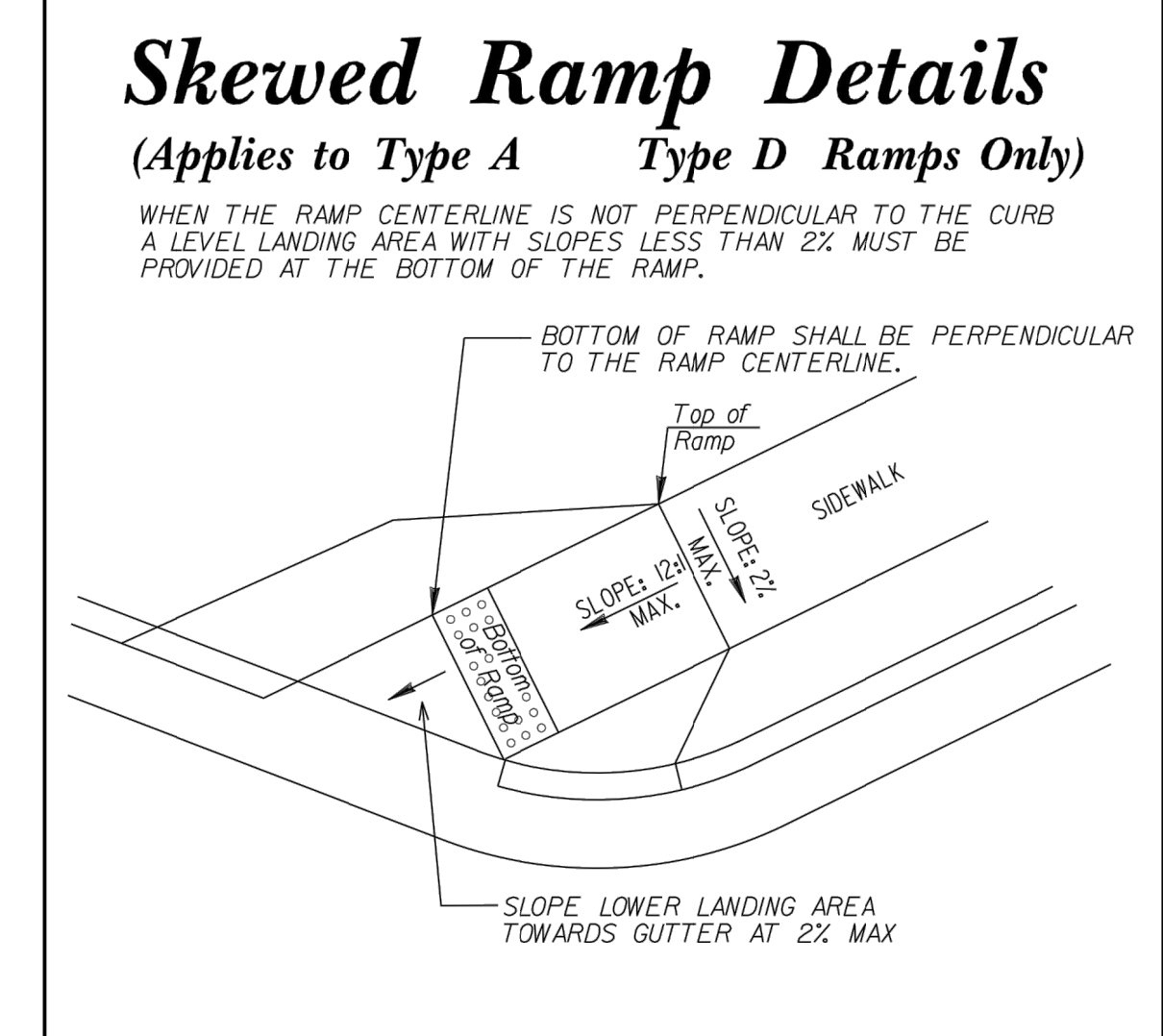
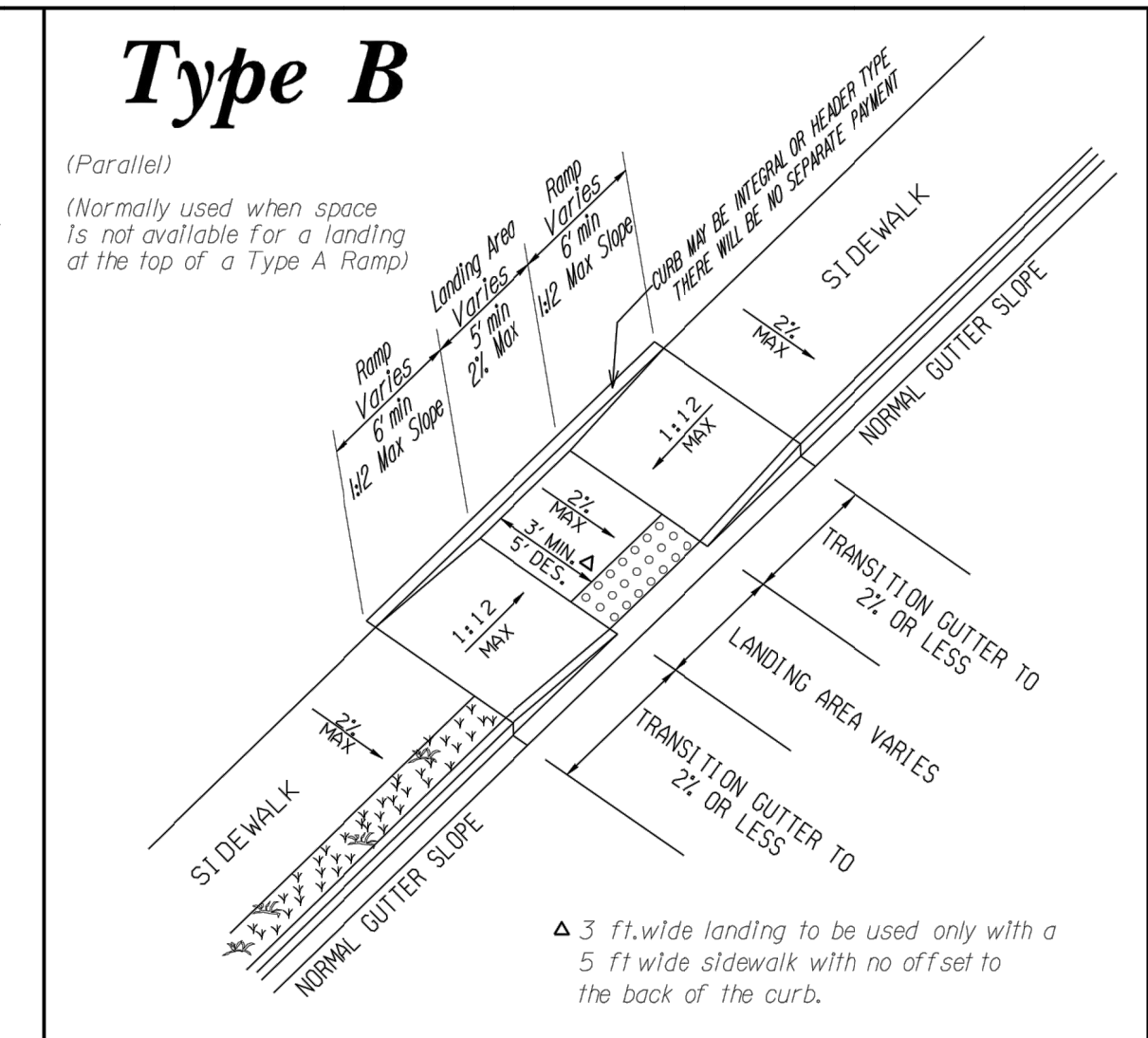
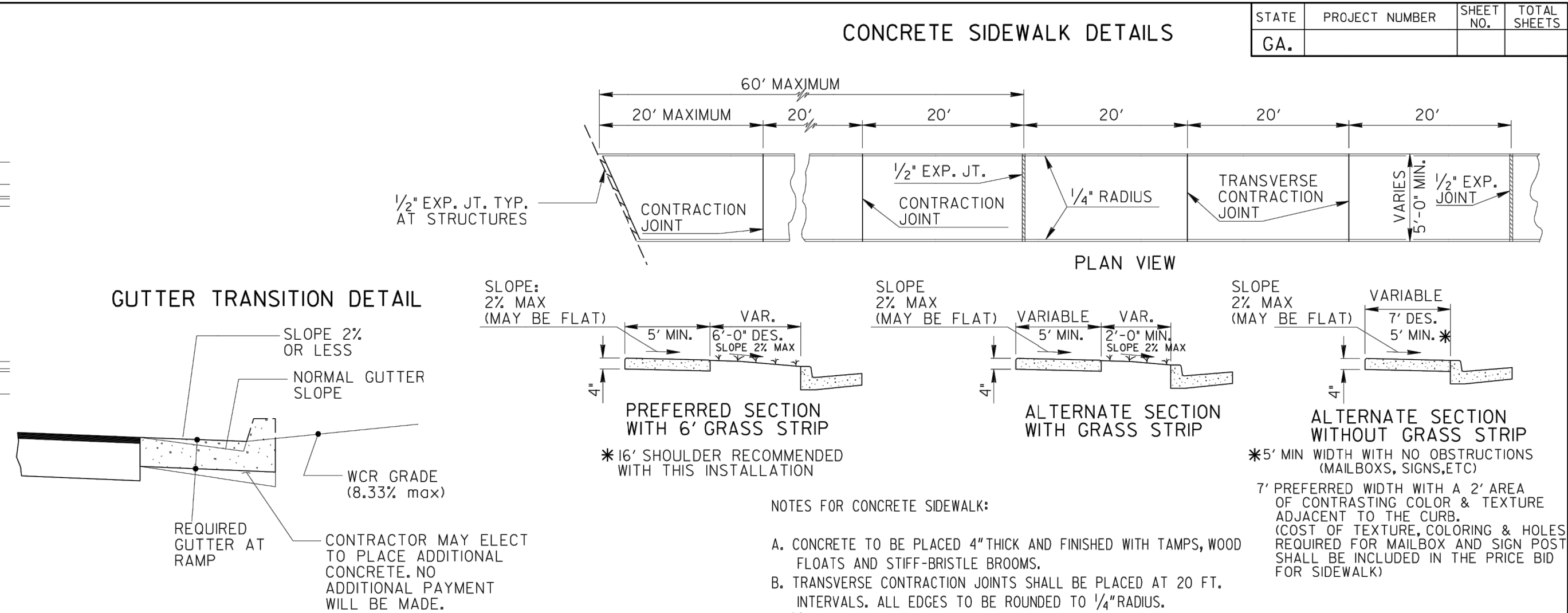
PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE:
AUGUST 16, 2023

Sheet:
80-014

		3-30-06		DEPARTMENT OF TRANSPORTATION	
			4-24-01	STATE OF GEORGIA	
REVISED GENERAL NOTES AND LEGEND, DELETED TWO DETAILS.			REVISION	STANDARD TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS	
				NO SCALE	
				AUG., 1999	
GLO	BY	DES. _____ DRW. _____ TRA. _____ CHK. _____	(SUBMITTED) <i>B. Smith</i> STATE ROAD & AIRPORT DESIGN ENGINEER (APPROVED) <i>A. Conder</i> CHIEF ENGINEER	NUMBER 9100	



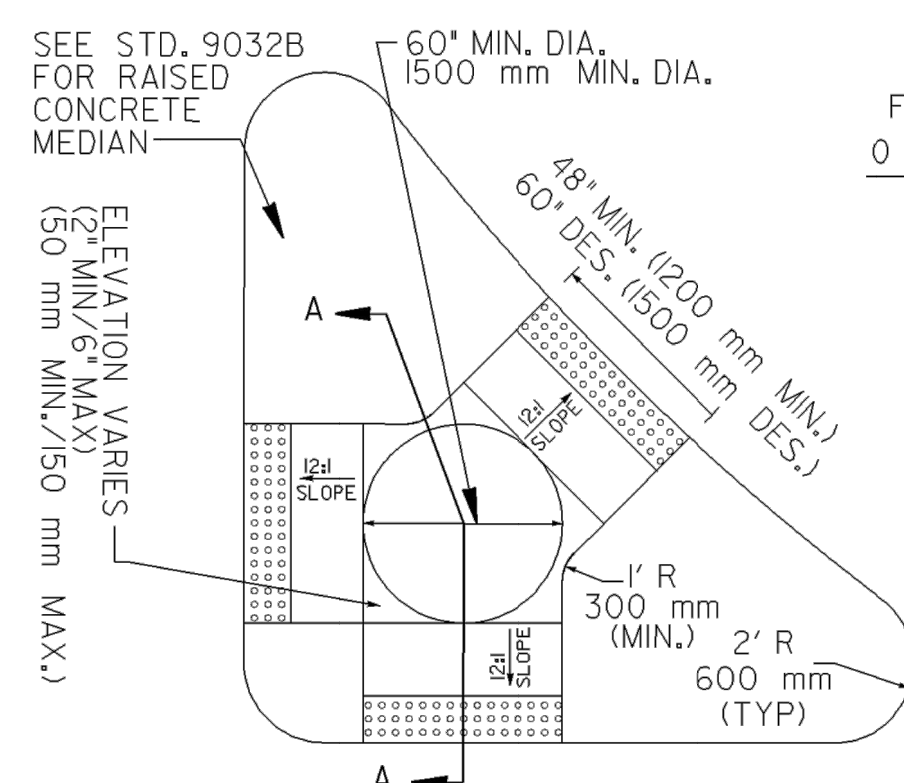


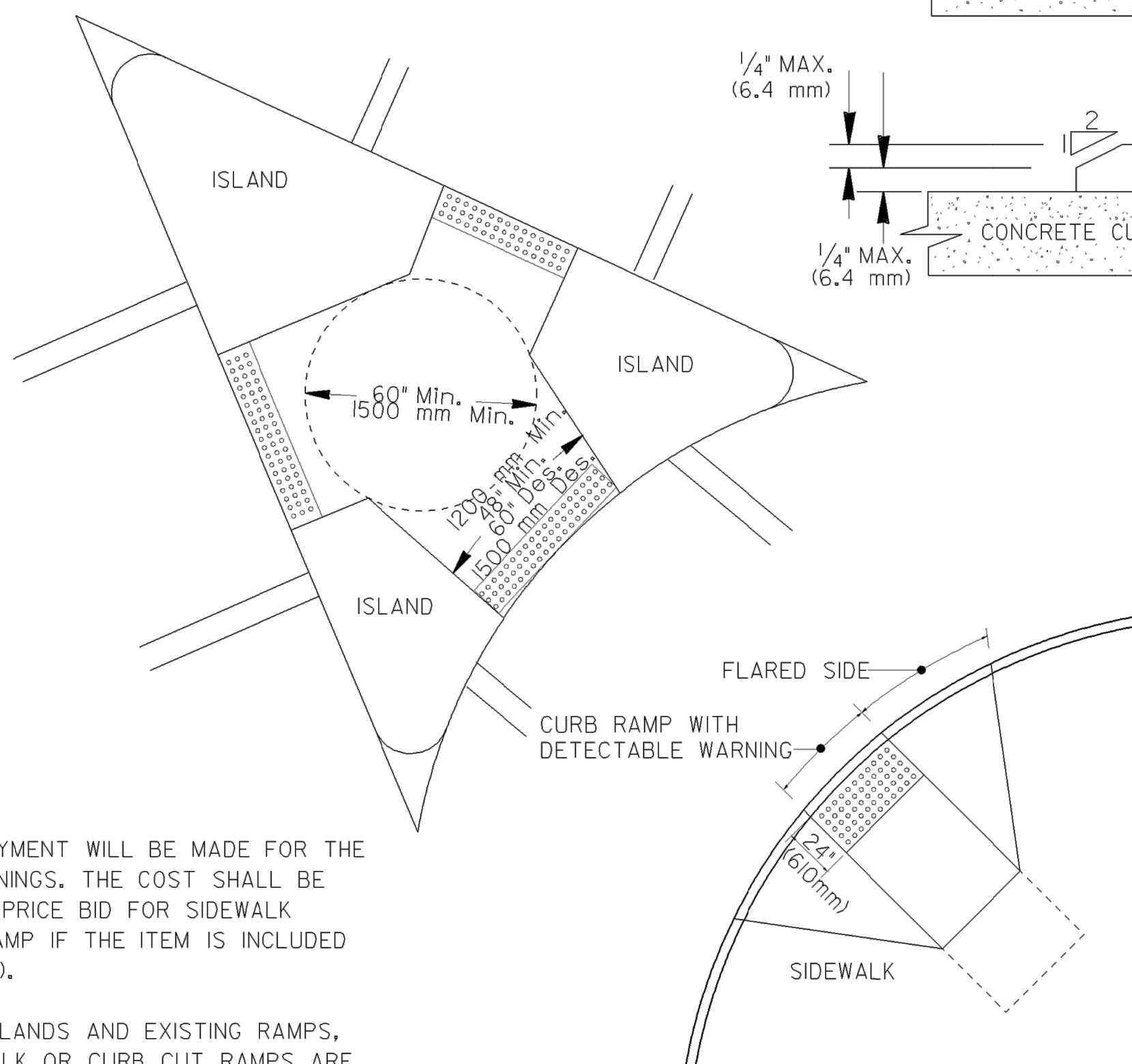
Diagram illustrating the cross-section of a curb ramp. The diagram shows a sidewalk on the left, a central curb ramp, and another sidewalk on the right. The ramp is flanked by sloped sides. Key dimensions and features are labeled:

- FLARED SIDE:** Indicated on the left side of the ramp with a dimension of $0 \text{ TO } 1/4" \text{ MAX.}$.
- CURB RAMP WITH DETECTABLE WARNING:** The central ramp area, which includes a rectangular area of detectable warning (represented by a grid of circles).
- 50 mm:** A vertical dimension indicating the height of the curb or ramp edge.
- SIDEWALK:** Labeled on both the left and right sides of the ramp.

DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.91INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMETER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

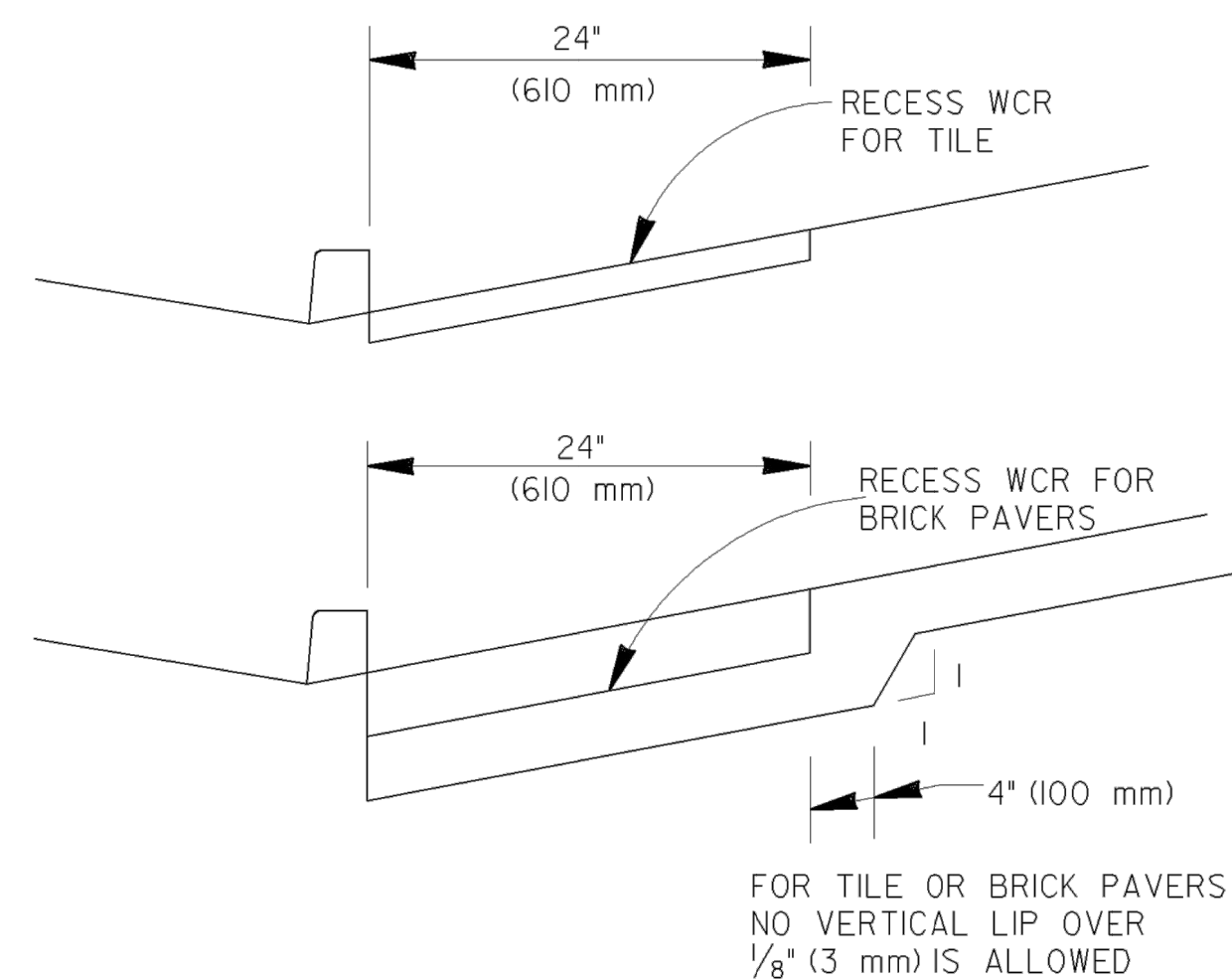
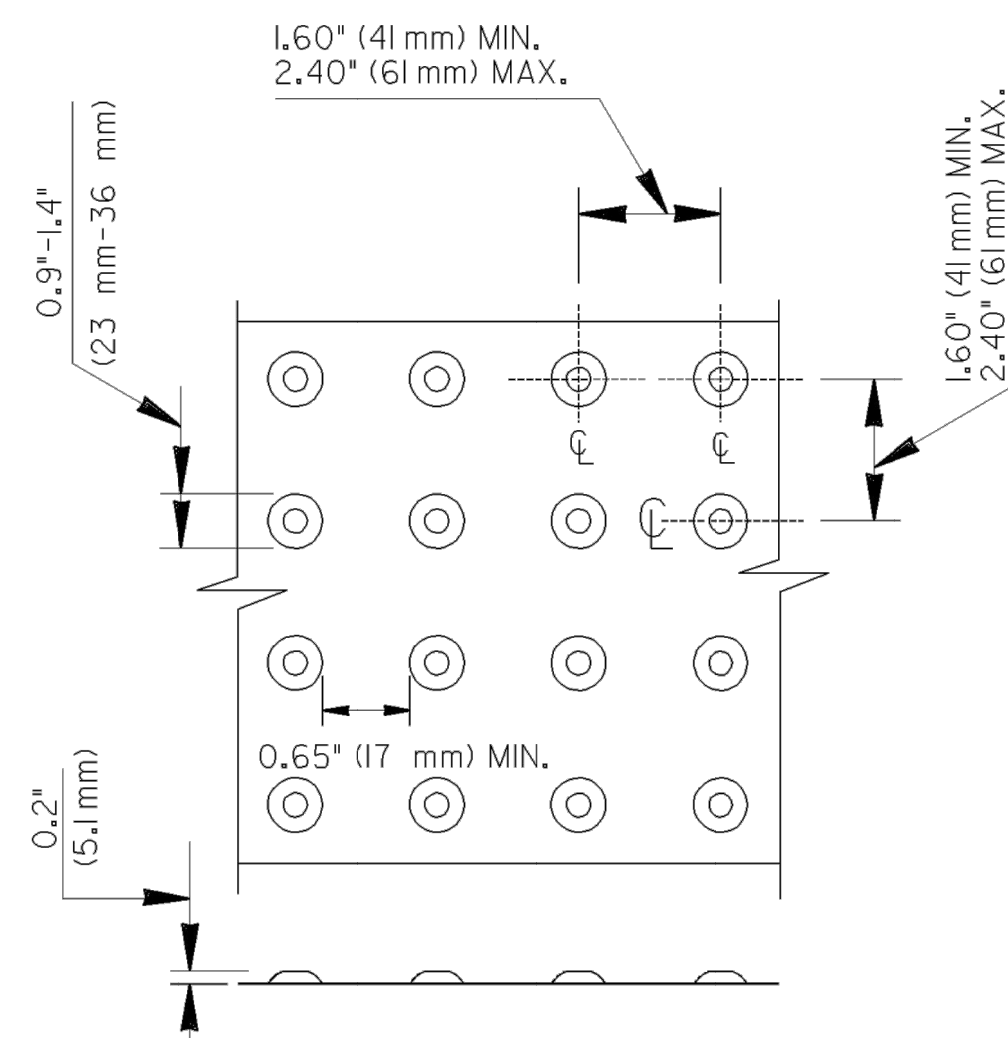
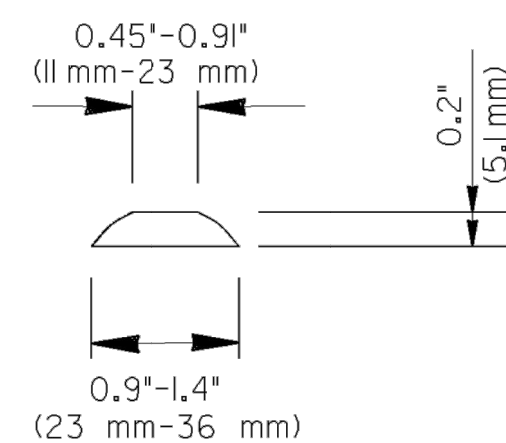
Diagram illustrating the dimensions for a concrete curb ramp with a retrofit surface. The diagram shows a cross-section of the curb ramp and the surrounding pavement. The dimensions are as follows:

- MAX. (mm) for the top surface of the curb ramp.
- RETROFIT SURFACED APPLIED DETECTABLE WARNING (the surface being applied).
- 1/2" MAX. (13 mm) for the height of the retrofit surface.
- 1/4" MAX. (6.4 mm) for the height of the concrete curb ramp.
- CONCRETE CURB RAMP (the base structure).



FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL. THE COST OF THE DETECTABLE WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.

A diagram of a rectangular panel with a grid of 10x10 circles. The panel has a width of 24 inches (610 mm). The circles are arranged in a grid with 10 columns and 10 rows. The panel is shown with a cross-section view on the right, indicating a thickness of 24 inches (610 mm).



MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON QPL 87.

RETROFIT OF EXISTING RAMPS

SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

ALL OTHER MATERIALS SHALL BE INSTALLED
ACCORDING TO MANUFACTURES DETAILS OR
INSTRUCTION.

GENERAL NOTES:

RETROFIT SURFACED APPLIED MATERIALS ONLY:

1. CHANGES IN LEVEL OF $\frac{1}{4}$ " (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN $\frac{1}{4}$ " (6.4 mm) HIGH MINIMUM AND $\frac{1}{2}$ " (13mm) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

6-18-09	DEPARTMENT OF TRANSPORTATION	
	STATE OF GEORGIA	
	SPECIAL DETAIL	
ADDED RETROFIT DETAIL AND ADDED ALT. RAMP DETAIL AND GEN. NOTES ADDED TOLERANCE TO DTL. REVISED/UNCUT DOMES AND NOTES. REVISED	REVISION	DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS
	NO SCALE	MARCH 12, 2002
GLO		NUMBER A4

[illegible]

ATHENS-CLARKE
COUNTY, GA



HEET TITLE: CONSTRUCTION STANDARDS & DETAILS

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

PROJECT INFORMATION	
JOB NO:	19023003
DRAWN BY:	KC
CHECKED BY:	VC
DRAWING FILE:	19023003E.DWG
DRAWING SCALE:	N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023	

Sheet:

80-016



POST	STUB SIZE
TYPE 7	2 1/4" x 2 1/4"
TYPE 8	2 3/4" x 2 3/4"
TYPE 9	2 1/2" x 2 1/2"



SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

		SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED					
		TYPE 7 2'x14 ga.		TYPE 9 2'x14'x14 ga		TYPE 8 2x12'x12 ga.		TYPE 8 w/ TYPE 9 inserts 2x12'x12 ga. W/2x14'x14 ga.			
Sign Centroid		1 Post	2Post	1 Post	1 Post	2Post	3Post	1 Post	2Post	3Post	
		SQUARE				FOOTAGE					
6'	13.50		27.00	19.25		30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60		23.20	16.50		25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15		20.30	14.45		22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00		18.00	12.85		20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10		16.20	11.55		18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40		14.80	10.50		16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80		13.60	9.65		15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25		12.50	8.90		13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80		11.60	8.25		12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00		10.00	6.45		10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70		9.40	6.05		9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40		8.80	5.70		8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15		8.30	5.40		8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95		7.90	5.10		7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75		7.50	4.85		7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN **PLUS** HALF THE HEIGHT OF SIGN.
EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) **PLUS** 7 FT. = 9' CENTROID.

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

* TYPE 9 INSERT SHALL BE A CONTINUOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
		TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL
		NO SCALE JULY 2002



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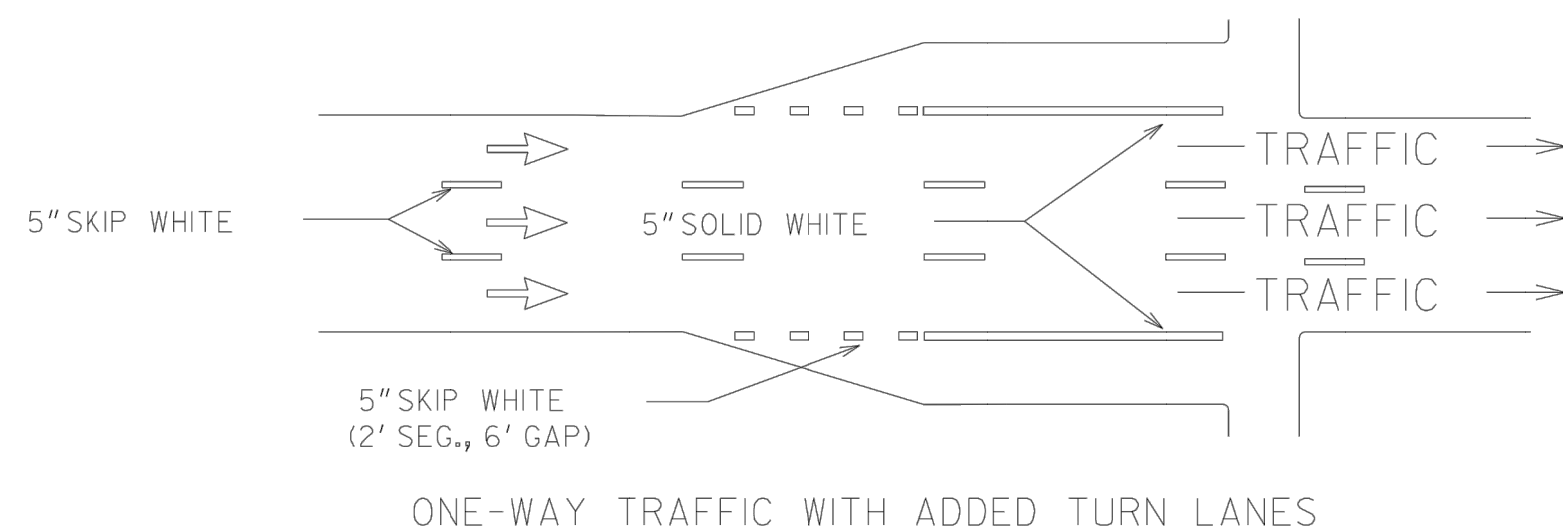
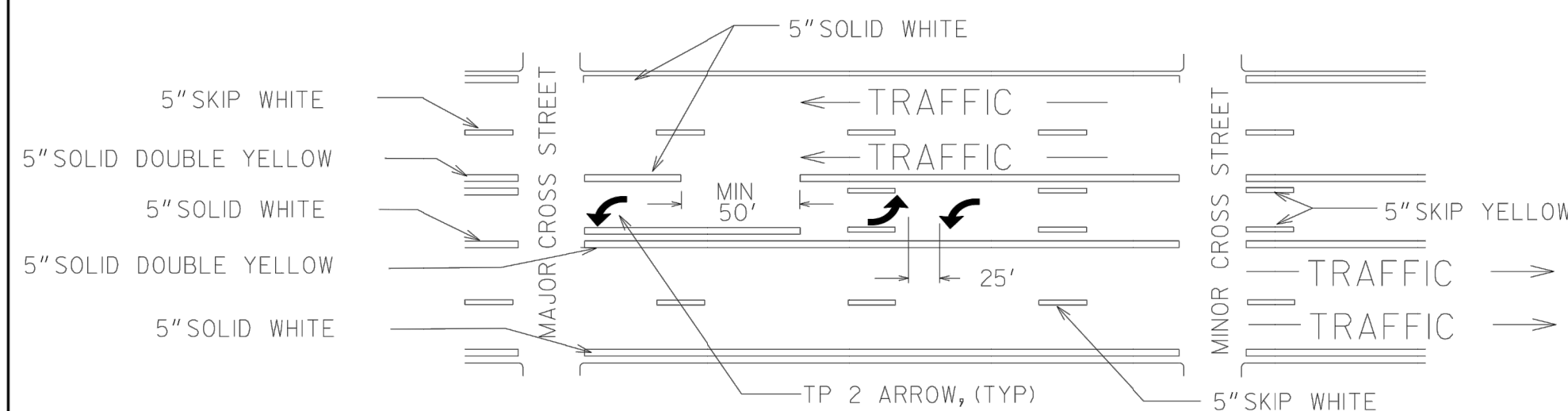
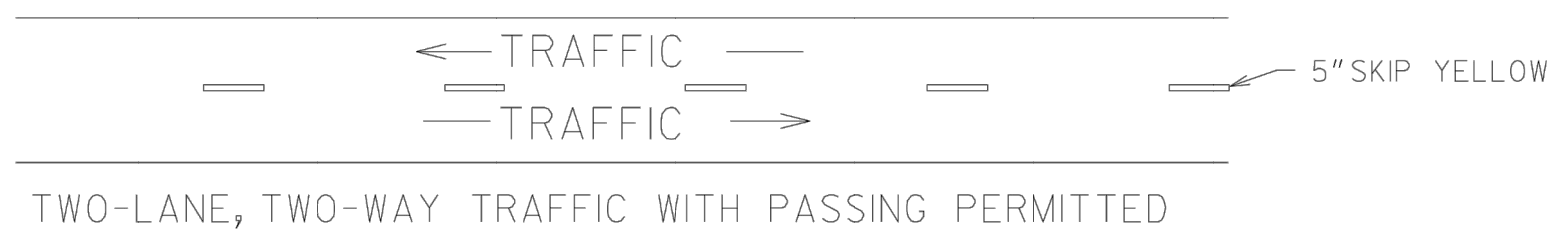
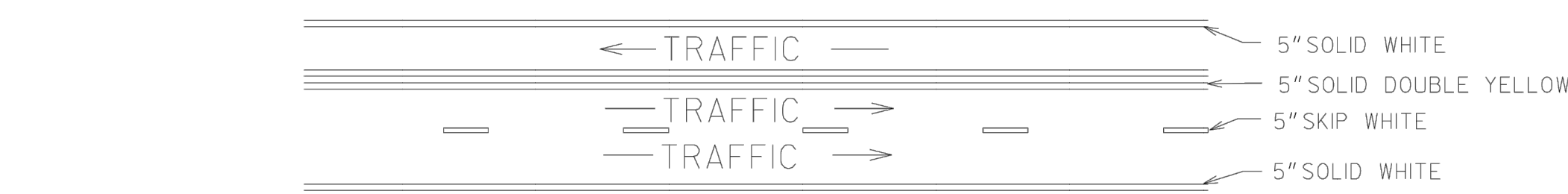
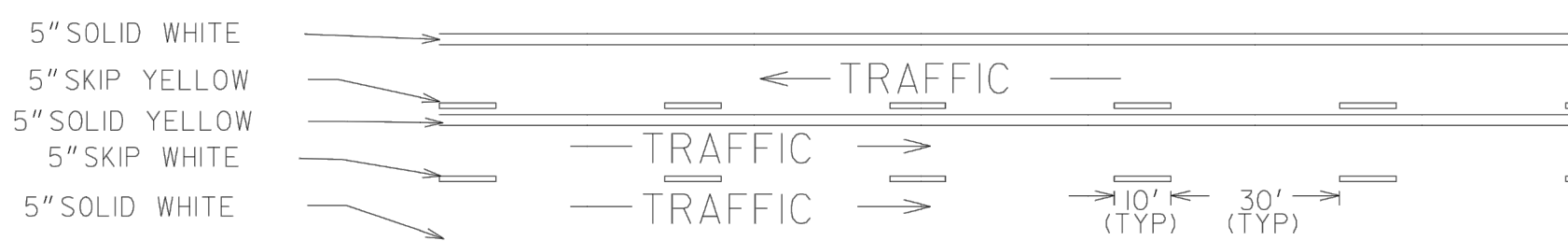
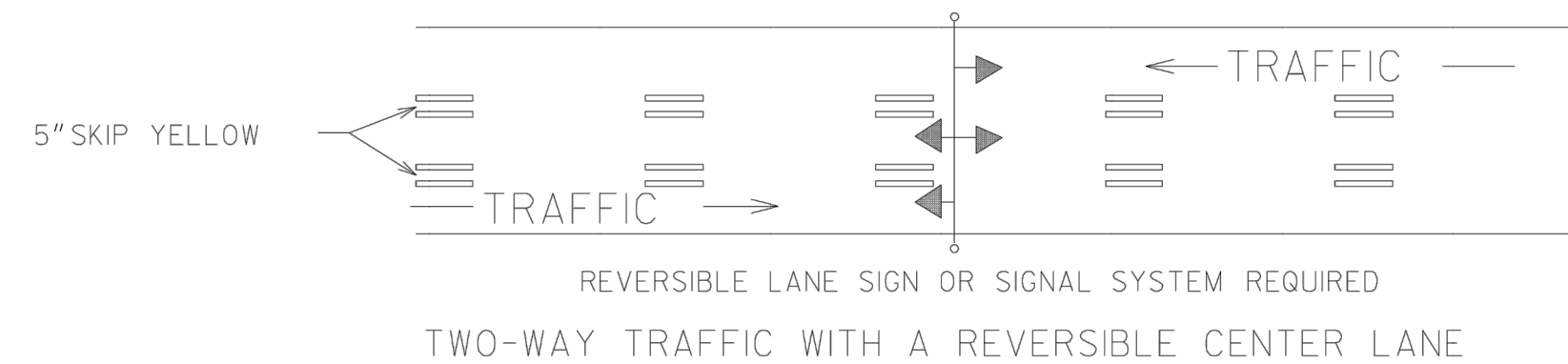
HEET TITLE: CONSTRUCTION STANDARDS & DETAILS

PROJECT NAME
MITCHELL BRIDGE
ROAD SHARED USE
PATH

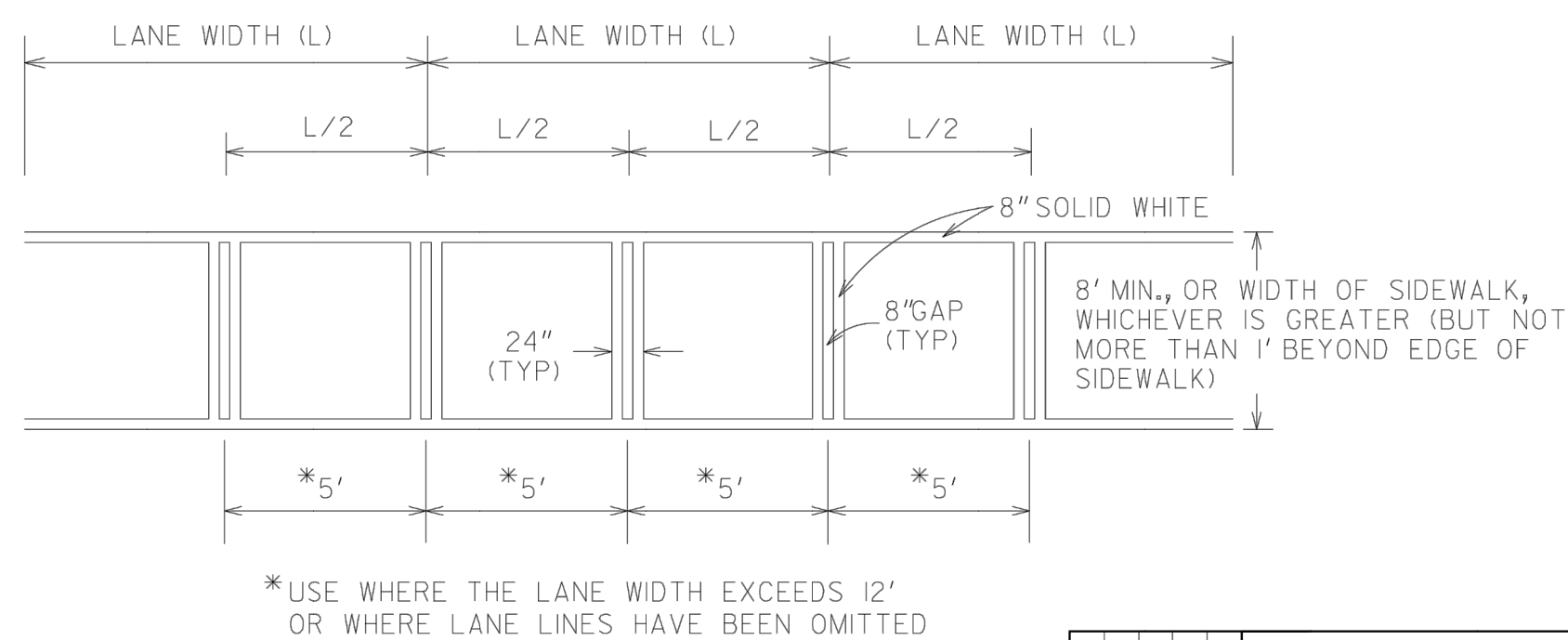
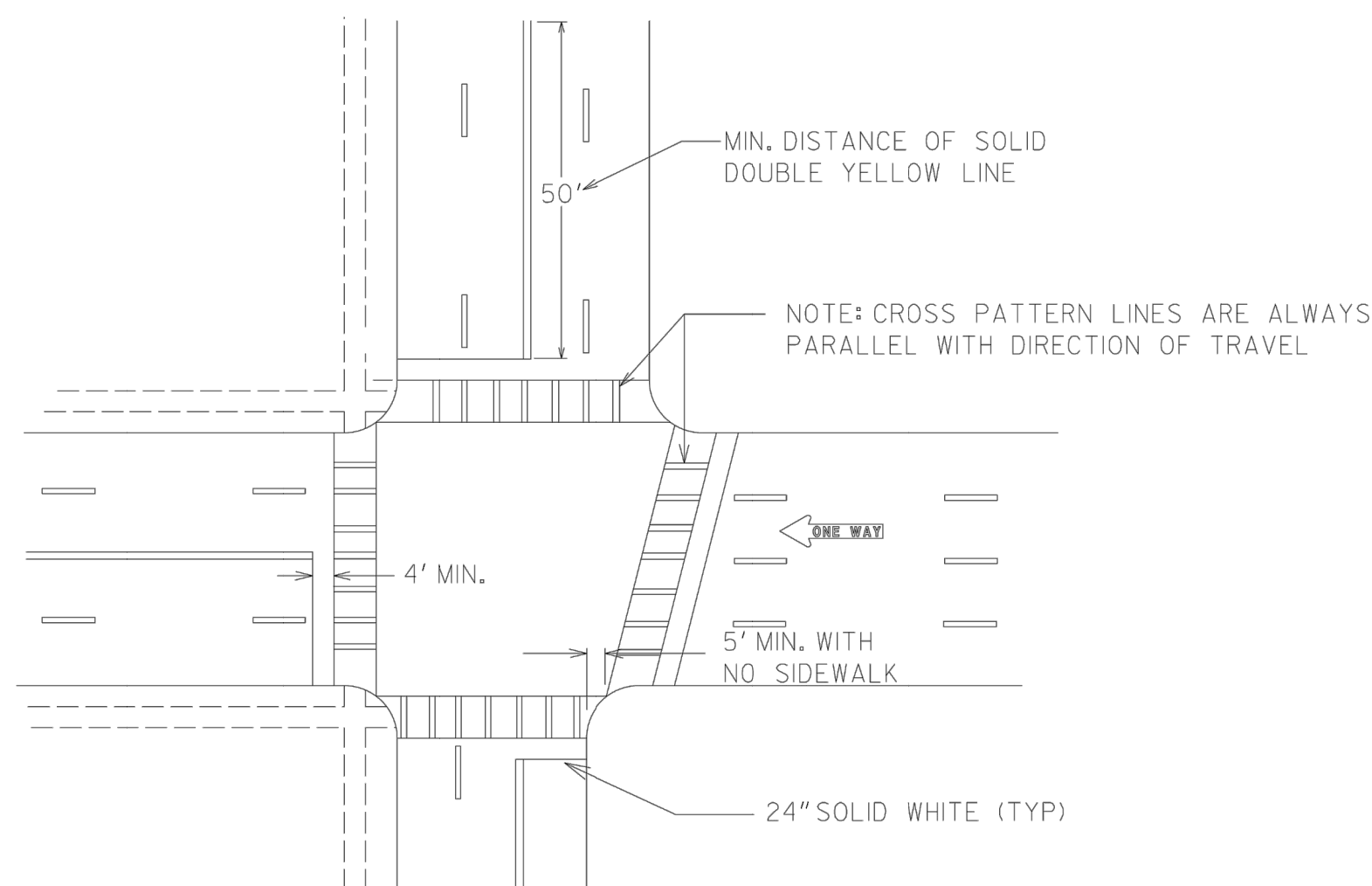
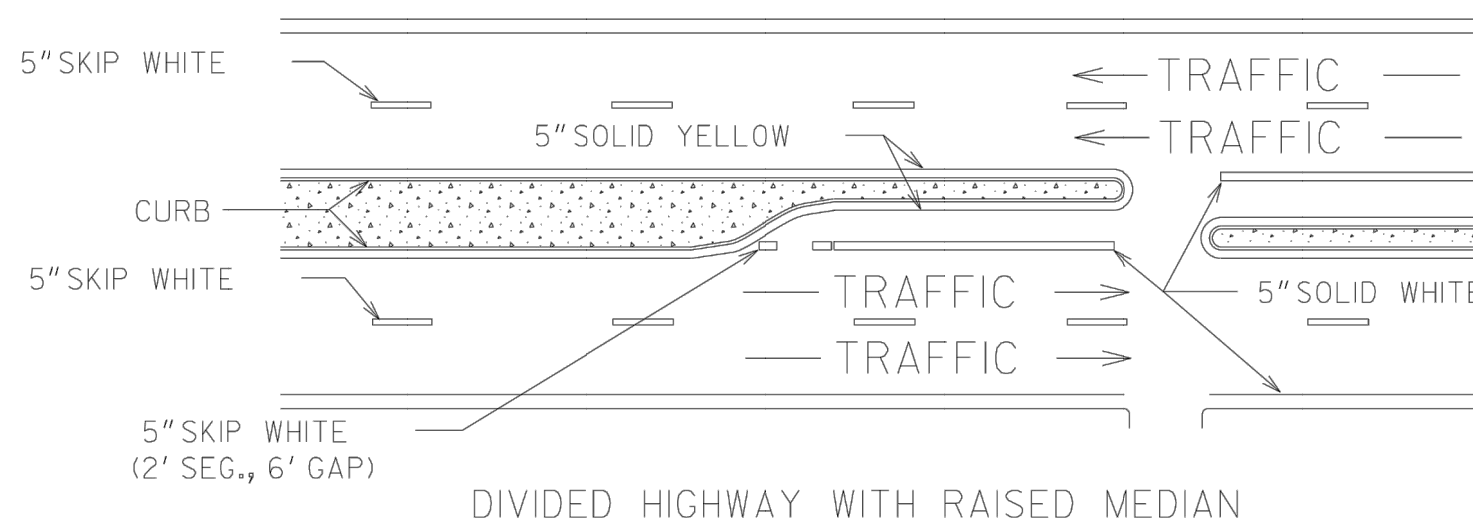
PROJECT INFORMATION

JOB NO: 19023003
DRAWN BY: KC
CHECKED BY: VC
DRAWING FILE: 19023003E.DWG
DRAWING SCALE: N.T.S.
ORIGINAL RELEASE DATE: AUGUST 16, 2023

Sheet:
80-018



- GENERAL NOTES:
1. SPACING BETWEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
 2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.
 3. CONTRAST MARKINGS FOR SKIP STRIPING SHALL BE AS SHOWN IN DETAIL T-IIA.



SHEET TITLE:		CONSTRUCTION STANDARDS & DETAILS	
PROJECT NAME:		MITCHELL BRIDGE ROAD SHARED USE PATH	
SHEET NO.:		1	
PROJECT NUMBER:		19023003	
DRAWN BY:		KC	
CHECKED BY:		VC	
DRAWING FILE:		19023003E.DWG	
DRAWING SCALE:		N.T.S.	
ORIGINAL RELEASE DATE:		AUGUST 16, 2023	
Sheet:		80-019	