

09.08/24

See Sheet 1A For Index of Sheets
See Sheet 1-B For Conventional Symbols

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

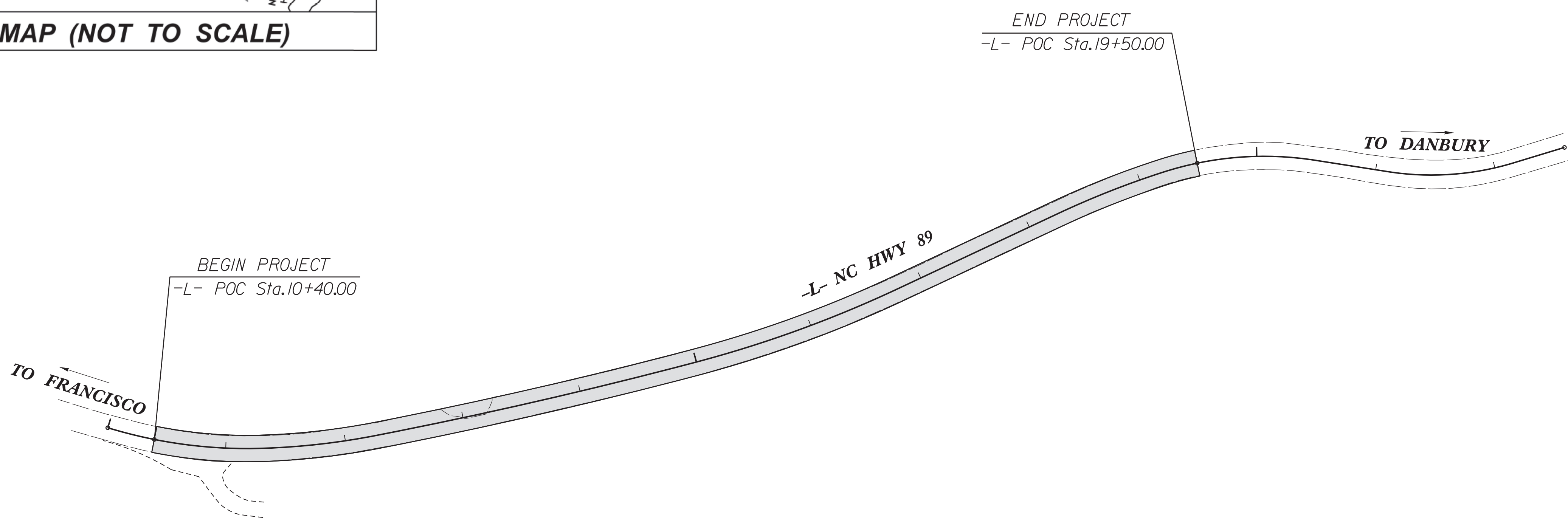
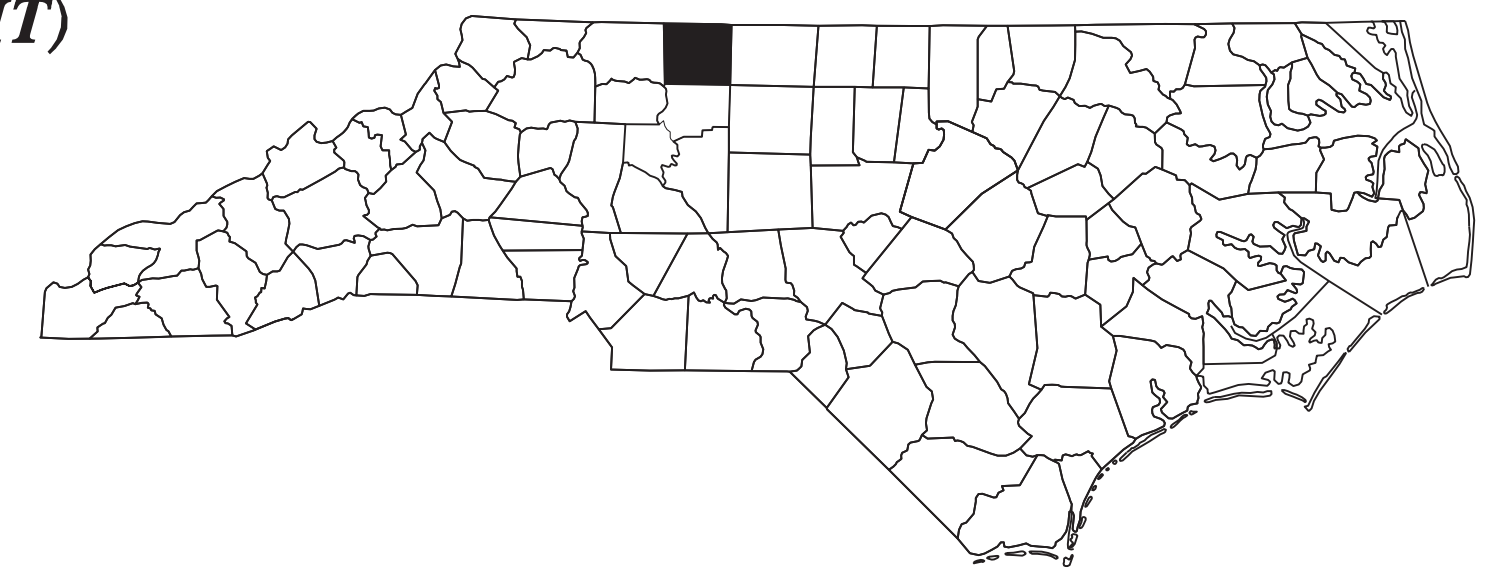
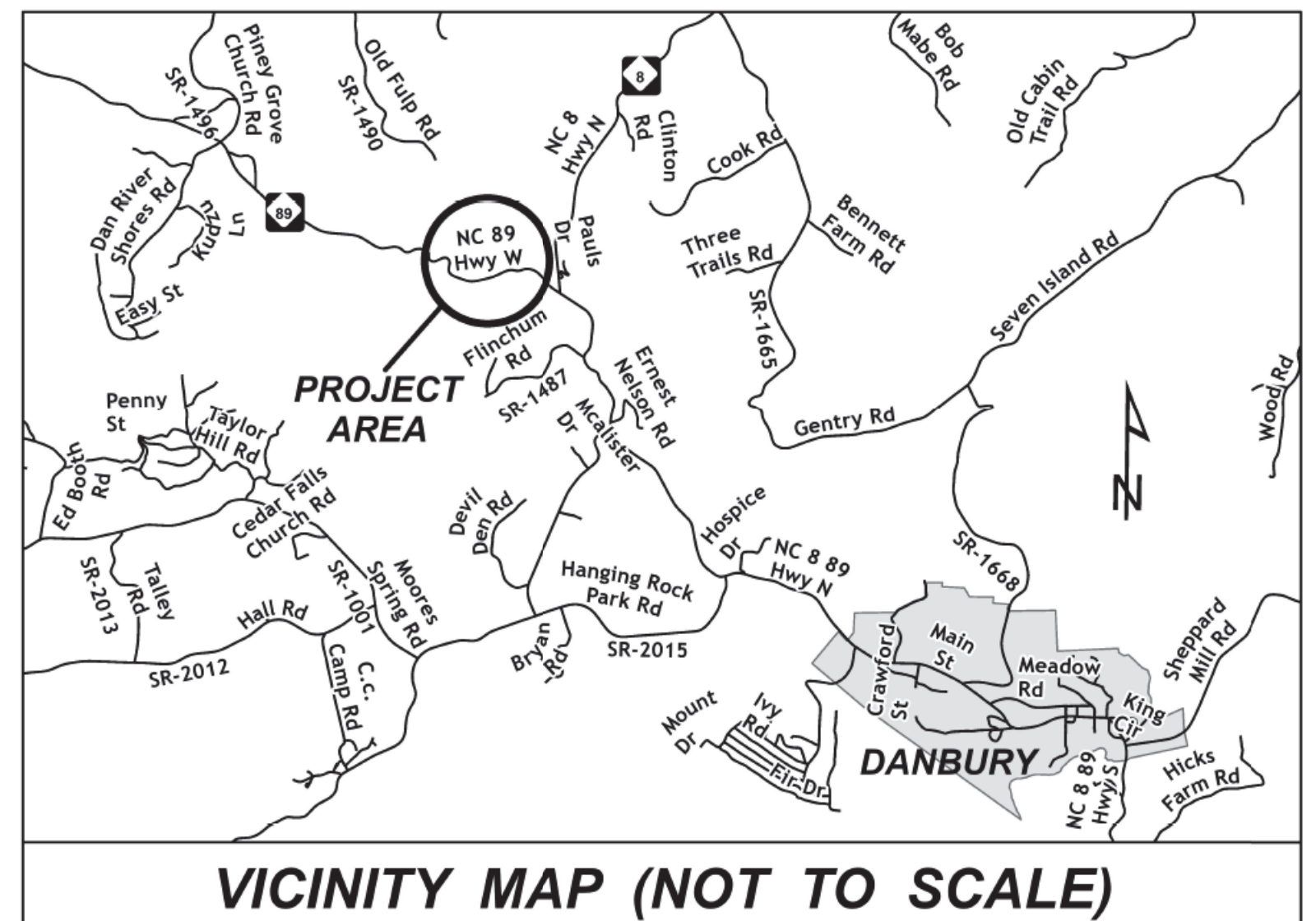
STOKES COUNTY

LOCATION: NC HWY 89 IN DANBURY, 0.5 MI. NORTH OF DAN RIVER BRIDGE (NEAR NC 8 NORTH SPLIT)
TYPE OF WORK: GRADING, PAVING AND DRAINAGE

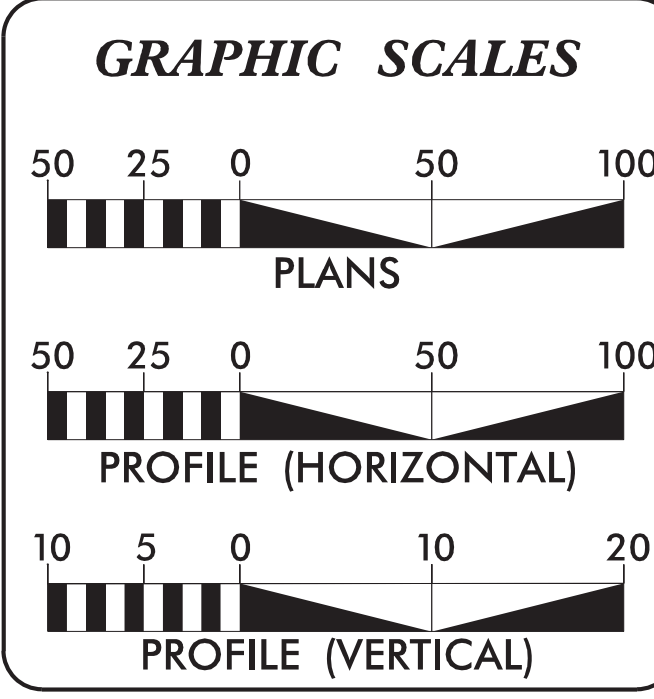
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	18109.1085011	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
18109.1085011	FHWA DISASTER	PE	
18109.1085011	FHWA DISASTER	RW	
18109.1085011	FHWA DISASTER	CONST	

PROJECT: 18109.1085011

CONTRACT: DI00345



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2024 = 761
ADT 2034 = 800
DESIGN SPEED = 60 MPH
POSTED SPEED = 55 MPH
FUNC CLASS =
MAJOR COLLECTOR

PROJECT LENGTH

TOTAL LENGTH PROJECT 0.172 MILE

Prepared in the Office of:
DIVISION OF HIGHWAYS
NINTH DIVISION DESIGN/CONSTRUCT
375 SILAS CREEK PARKWAY WINSTON-SALEM, N.C. 27127
2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: February 26, 2024
LETTING DATE: April 24, 2024

Jeremy L. Keaton, PE, PLS
PROJECT ENGINEER

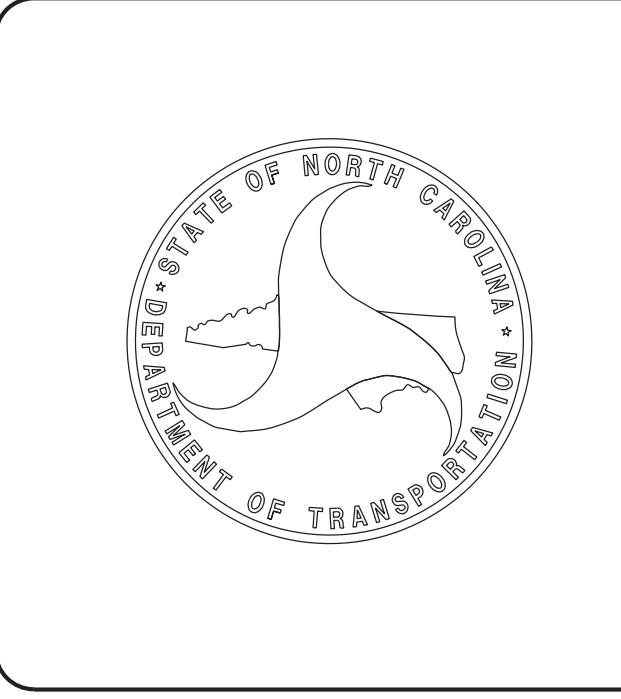
Jeremy L. Keaton, PE, PLS
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

DocuSigned by:
W. Galen Cail
03/27/2024

ROADWAY DESIGN ENGINEER

DocuSigned by:
Jeremy Keaton
03/27/2024



27-MAR-2024 13:00
S:\DOC\2024-NC89-StokesCo\Roadway\NC89_ddc_tsh.dgn
\$\$\$\$\$SERVNAME\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
181091085011	1A
DocuSigned by: Jeremy Keaton <small>712D7F9646A4499</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

GENERAL NOTES: 2024 SPECIFICATIONS
 EFFECTIVE: 01-16-2024
 REVISED:

EFF. 01-16-2024
 REV.

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

- | | |
|--------------------------------------------|-------------------------------------------------------------------------------|
| STD.NO. | TITLE |
| DIVISION 2 - EARTHWORK | |
| 200.02 | Method of Clearing - Method II |
| 225.02 | Guide for Grading Subgrade - Secondary and Local |
| 225.04 | Method of Obtaining Superelevation - Two Lane Pavement |
| DIVISION 3 - PIPE CULVERTS | |
| 300.01 | Method of Pipe Installation |
| DIVISION 5 - SUBGRADE, BASES AND SHOULDERS | |
| 560.01 | Method of Shoulder Construction - High Side of Superelevated Curve - Method I |
| DIVISION 6 - ASPHALT BASES AND PAVEMENTS | |
| 654.01 | Pavement Repairs |
| DIVISION 8 - INCIDENTALS | |
| 838.05 | Concrete 'L' Endwall for Single Pipe Culverts - 15" thru 48" Pipe |
| 840.00 | Concrete Base Pad for Drainage Structures |
| 840.18 | Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe |
| 840.20 | Frames and Wide Slot Flat Grates |
| 840.27 | Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe |
| 840.29 | Frames and Narrow Slot Flat Grates |
| 840.35 | Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates |
| 840.45 | Precast Drainage Structure |
| 840.46 | Traffic Bearing Precast Drainage Structure |
| 840.71 | Concrete and Brick Pipe Plug |
| 846.04 | Drop Inlet Installation in Shoulder Berm Gutter |
| 862.01 | Guardrail Placement |
| 862.02 | Guardrail Installation |
| 876.01 | Rip Rap in Channels and Ditches |
| 876.02 | Guide for Rip Rap at Pipe Outlets |
| 876.04 | Drainage Ditches with Class 'B' Rip Rap |

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE BRIGHTSPEED, MCNC, RIVERSTREET NETWORKS STOKES.

INDEX OF SHEETS	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2C-1 THRU 2C-3	GEOTECHNICAL DETAILS
3B-1	ROADWAY SUMMARIES
3D-1	DRAINAGE SUMMARIES
4 THRU 5	PLAN AND PROFILE SHEET
EC-1 THRU EC-4	EROSION CONTROL PLANS
RW-1 THRU RW-4	SURVEY CONTROL & RW SHEETS
X-1 THRU X-19	CROSS-SECTIONS

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete Monument (ECM)	□
Parcel/Sequence Number	(123)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	WLB
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Existing Historic Property Boundary	HPB
Known Contamination Area: Soil	☠-s-☠-s-
Potential Contamination Area: Soil	☠-s-☠-s-
Known Contamination Area: Water	☠-w-☠-w-
Potential Contamination Area: Water	☠-w-☠-w-
Contaminated Site: Known or Potential	☠ ?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	×
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	JS
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	WLB
Proposed Lateral, Tail, Head Ditch	-----
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Secondary Horiz and Vert Control Point	◆
Vertical Benchmark	⊕
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	▲
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◇
Existing C/A Monument	△
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	▲
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Existing Control of Access Line	-----
Proposed Control of Access Line	-----
Proposed ROW and CA Line	-----
Existing Easement Line	-----
Proposed Temporary Construction Easement	E
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Drainage/Utility Easement	DUE
Proposed Permanent Utility Easement	PUE
Proposed Temporary Utility Easement	TUE
Proposed Aerial Utility Easement	AUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	C
Proposed Slope Stakes Fill	F
Proposed Curb Ramp	CR
Existing Metal Guardrail	T
Proposed Guardrail	T
Existing Cable Guiderail	□
Proposed Cable Guiderail	□
Equality Symbol	⊕
Pavement Removal	⊗
VEGETATION:	
Single Tree	○
Single Shrub	○
Hedge	-----

Woods Line	-----
Orchard	○
Vineyard	□

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	S

UTILITIES:

* SUE - Subsurface Utility Engineering
LOS - Level of Service - A,B,C or D (Accuracy)

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○
Power Line Tower	□
Power Transformer	⊗
U/G Power Cable Hand Hole	PH
H-Frame Pole	●
U/G Power Line Test Hole (SUE - LOS A)*	⊗
U/G Power Line (SUE - LOS B)*	P
U/G Power Line (SUE - LOS C)*	P
U/G Power Line (SUE - LOS D)*	P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	PH
U/G Telephone Test Hole (SUE - LOS A)*	⊗
U/G Telephone Cable (SUE - LOS B)*	T
U/G Telephone Cable (SUE - LOS C)*	T
U/G Telephone Cable (SUE - LOS D)*	T
U/G Telephone Conduit (SUE - LOS B)*	TC
U/G Telephone Conduit (SUE - LOS C)*	TC
U/G Telephone Conduit (SUE - LOS D)*	TC
U/G Fiber Optics Cable (SUE - LOS B)*	T FO
U/G Fiber Optics Cable (SUE - LOS C)*	T FO
U/G Fiber Optics Cable (SUE - LOS D)*	T FO

WATER:

Water Manhole	○
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line Test Hole (SUE - LOS A)*	⊗
U/G Water Line (SUE - LOS B)*	P
U/G Water Line (SUE - LOS C)*	P
U/G Water Line (SUE - LOS D)*	P
Above Ground Water Line	A/G Water
TV:	
TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	PH
U/G TV Test Hole (SUE - LOS A)*	⊗
U/G TV Cable (SUE - LOS B)*	TV
U/G TV Cable (SUE - LOS C)*	TV
U/G TV Cable (SUE - LOS D)*	TV
U/G Fiber Optic Cable (SUE - LOS B)*	TV FO
U/G Fiber Optic Cable (SUE - LOS C)*	TV FO
U/G Fiber Optic Cable (SUE - LOS D)*	TV FO

GAS:

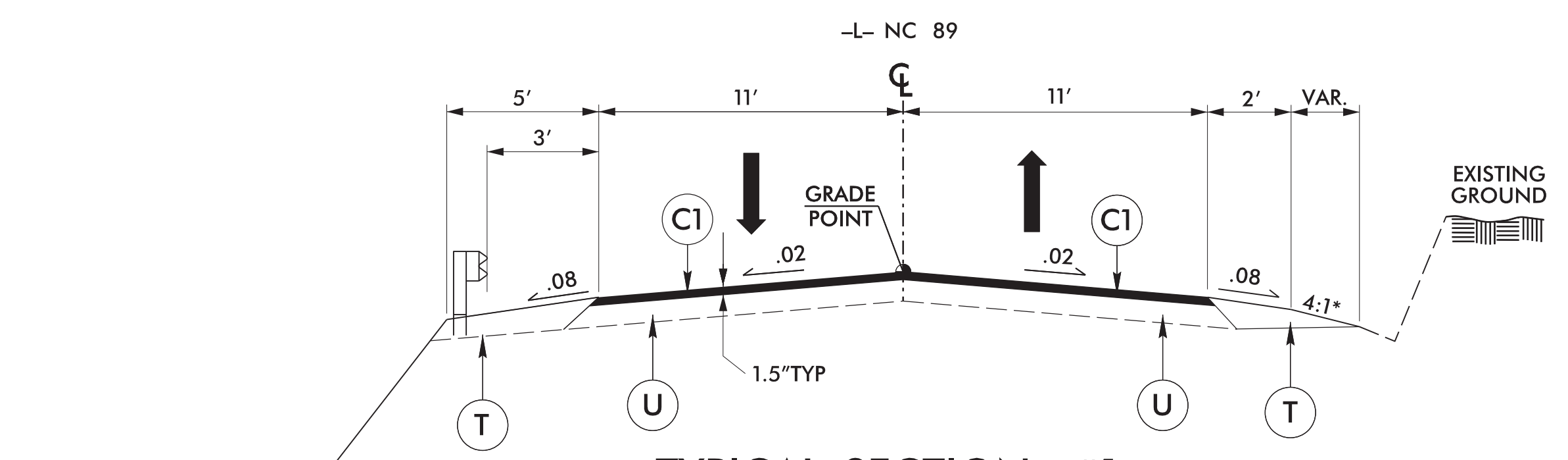
Gas Valve	◇
Gas Meter	⊕
U/G Gas Line Test Hole (SUE - LOS A)*	⊗
U/G Gas Line (SUE - LOS B)*	G
U/G Gas Line (SUE - LOS C)*	G
U/G Gas Line (SUE - LOS D)*	G
Above Ground Gas Line	A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G Sanitary Sewer
SS Force Main Line Test Hole (SUE - LOS A)*	⊗
SS Force Main Line (SUE - LOS B)*	FSS
SS Force Main Line (SUE - LOS C)*	FSS
SS Force Main Line (SUE - LOS D)*	FSS

MISCELLANEOUS:

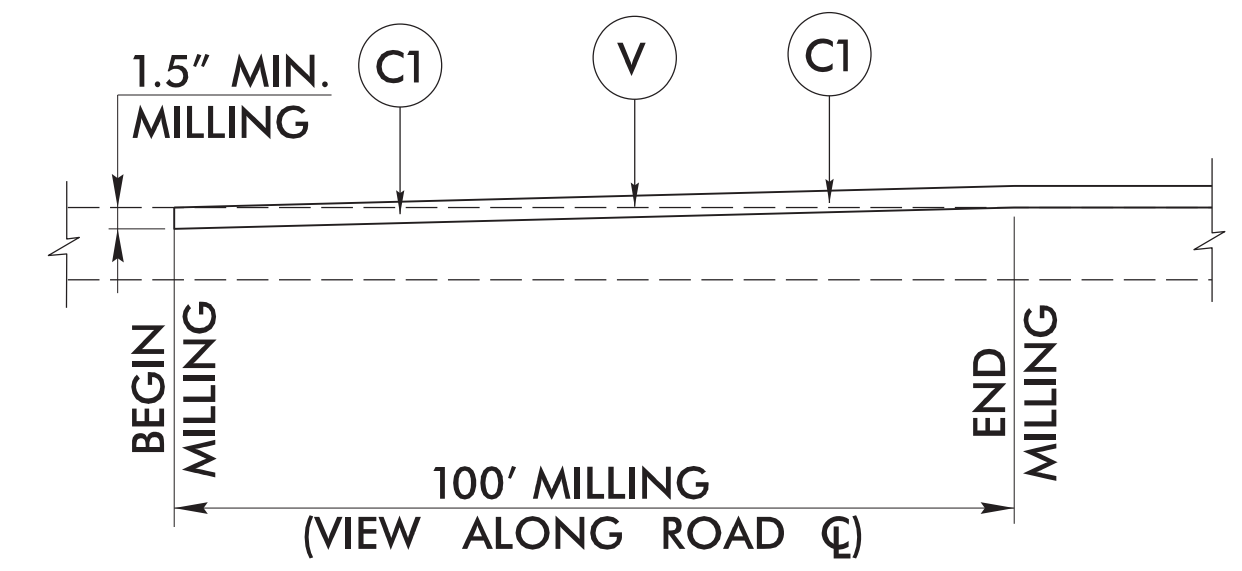
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line (SUE - LOS B)*	UTL
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	UST
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.



TYPICAL SECTION #1

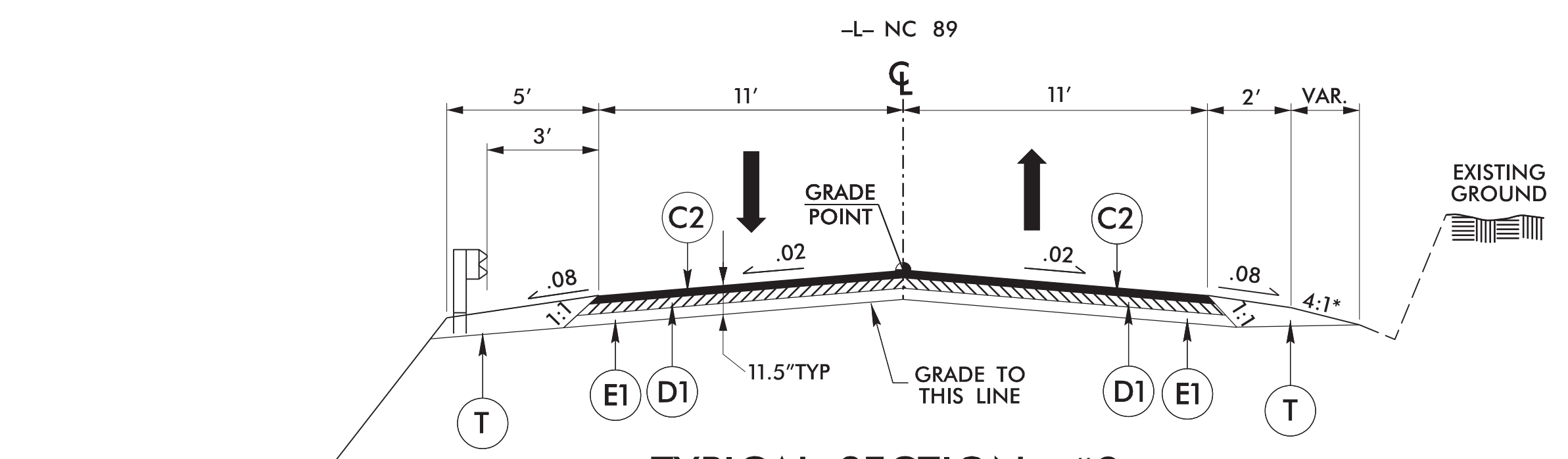
USE TYPICAL SECTION NO. 1 AS FOLLOWS:
 FROM -L- STA. 10+40 TO -L- STA. 12+25
 FROM -L- STA. 13+85 TO -L- STA. 14+25
 FROM -L- STA. 19+00 TO -L- STA. 19+50

NOTE: SEE STD. DWG. 862.01 SHT. 11 FOR
 GUARDRAIL INSTALLATION W/8' POSTS



MILLING DETAIL

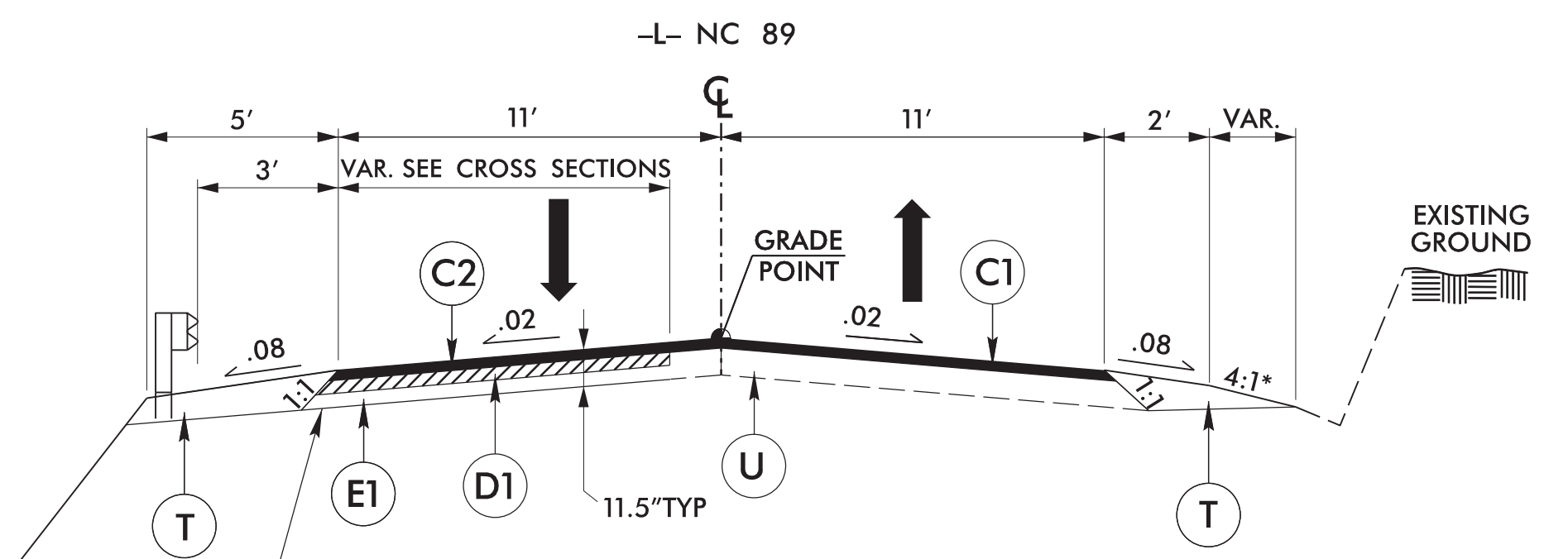
USE IN CONJUNCTION WITH TS No. 1



TYPICAL SECTION #2

USE TYPICAL SECTION NO. 2 AS FOLLOWS:
 FROM -L- STA. 12+25 TO -L- STA. 13+85

NOTE: SEE STD. DWG. 862.01 SHT. 11 FOR
 GUARDRAIL INSTALLATION W/8' POSTS

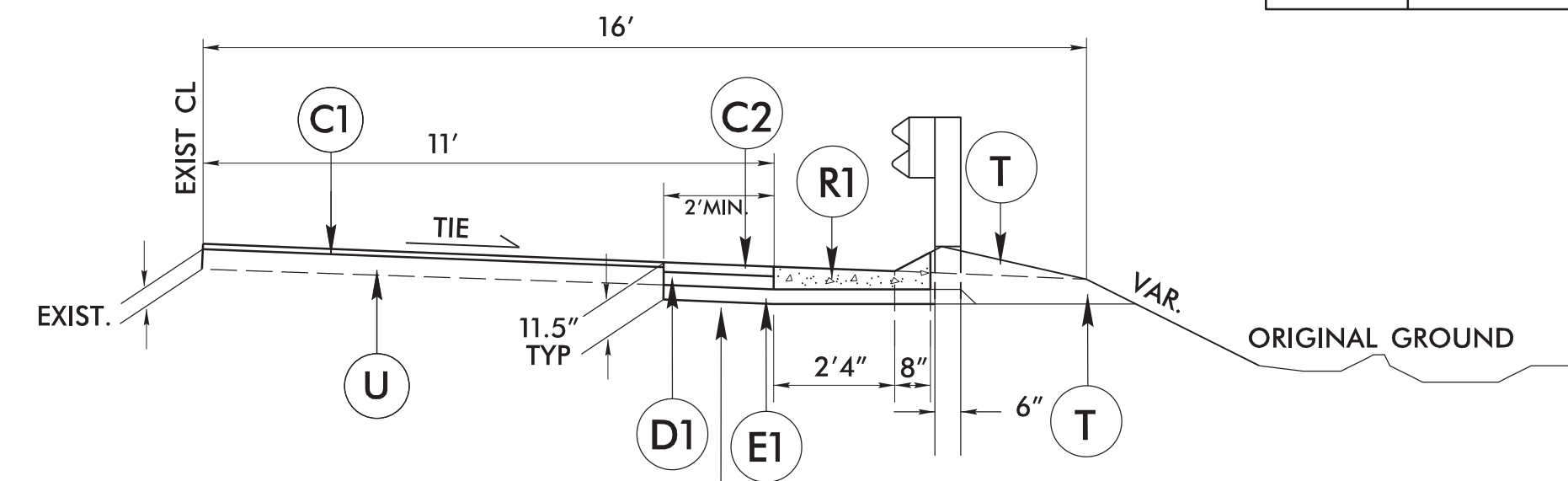


TYPICAL SECTION #3

USE TYPICAL SECTION NO. 3 AS FOLLOWS:
 FROM -L- STA. 14+25 TO -L- STA. 19+00

NOTES:
 SEE STD. DWG. 862.01 SHT. 11 FOR
 GUARDRAIL INSTALLATION W/8' POSTS

*SEE DETAIL B ON PSH 4



SHOULDER BERM GUTTER DETAIL

USE IN CONJUNCTION WITH TYPICALS NO. 2 & 3
 AT THESE LOCATIONS:

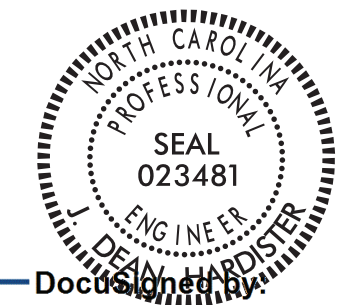
FROM -L- STA. 13+16 LT. TO -L- STA. 13+30 LT.
 FROM -L- STA. 16+31 LT. TO -L- STA. 16+45 LT.
 FROM -L- STA. 18+60 LT. TO -L- STA. 18+74 LT.

NOTE: FOR SBG BASE, 8" INCIDENTAL STONE (W/COMPACTIVE EFFORT)
 MAY BE USED IN LIEU OF 4.5" B25.0C ASPHALT BASE

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
R1	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT.
V	MILLING ASPHALT PAVEMENT (0"-1.5" DEPTH)

REVISIONS

8/17/99
 27-MAR-2024 12:11
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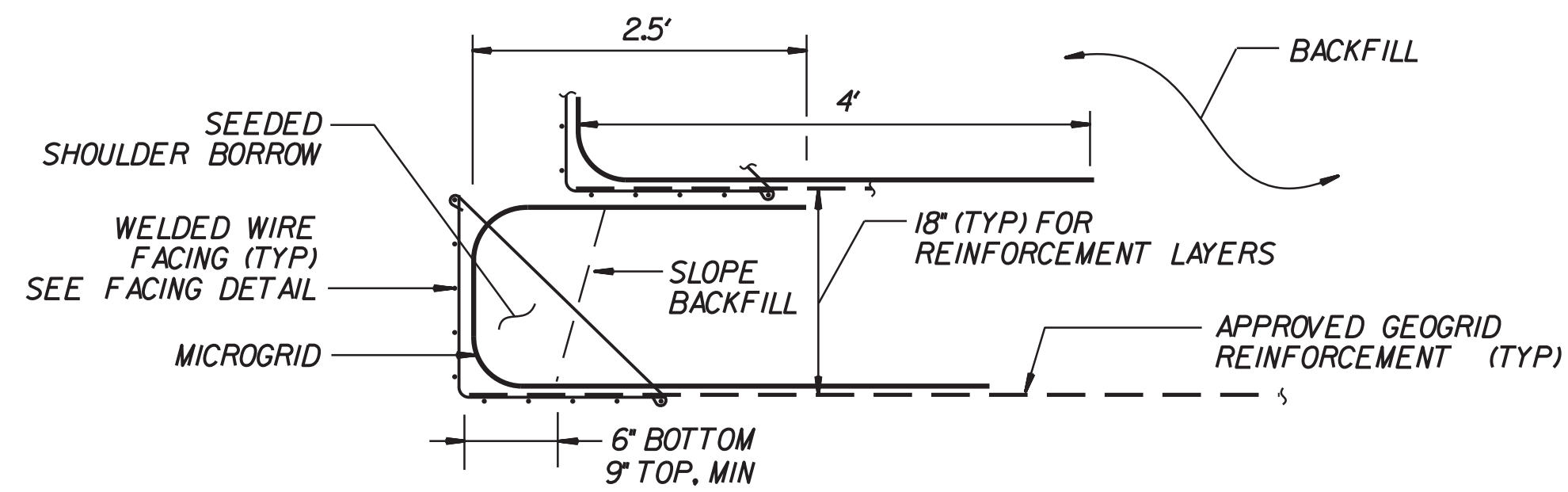


02/29/2024

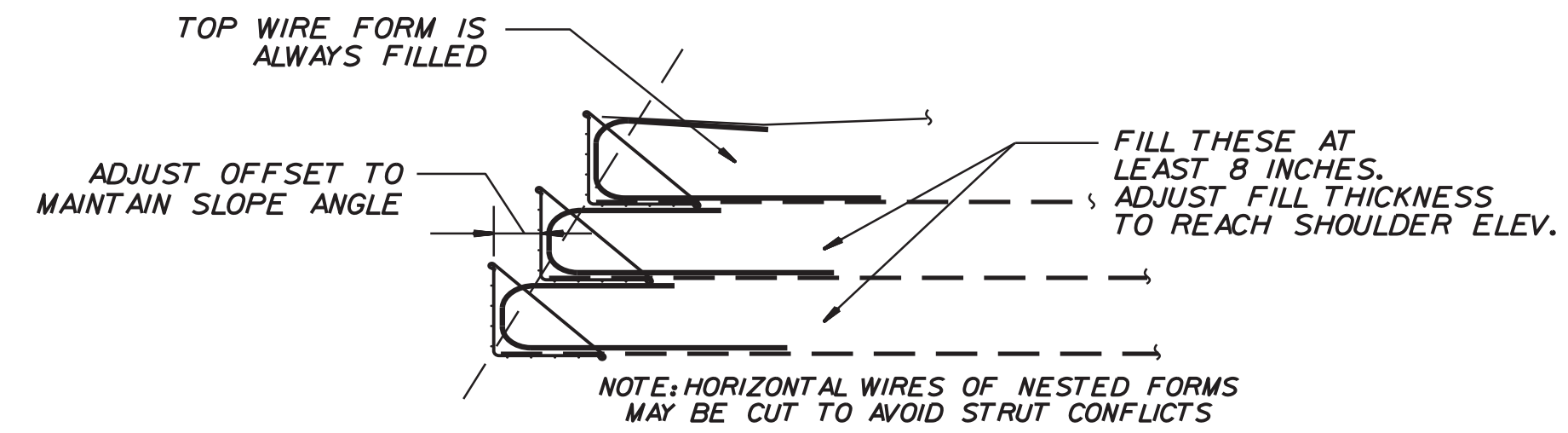
Signature: D. Hardister

DATE: 02/29/2024

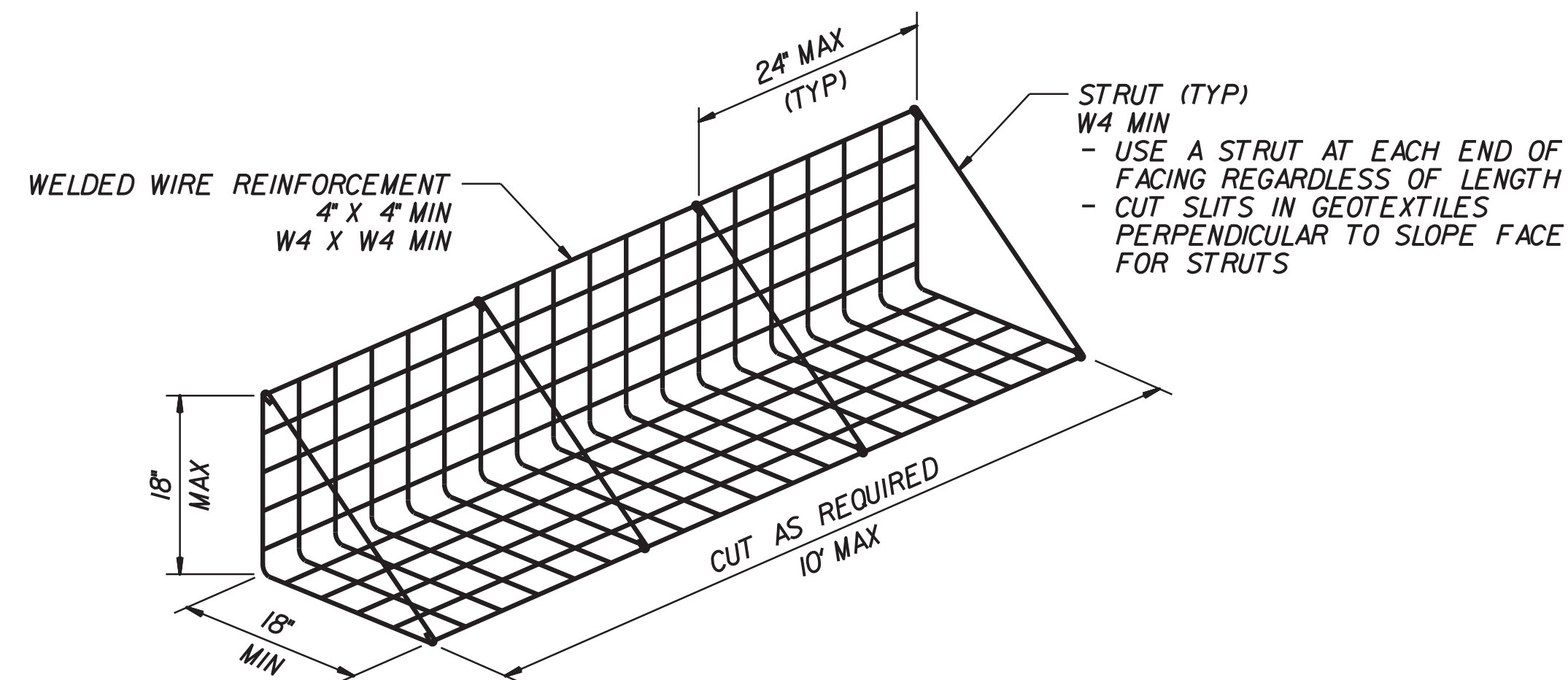
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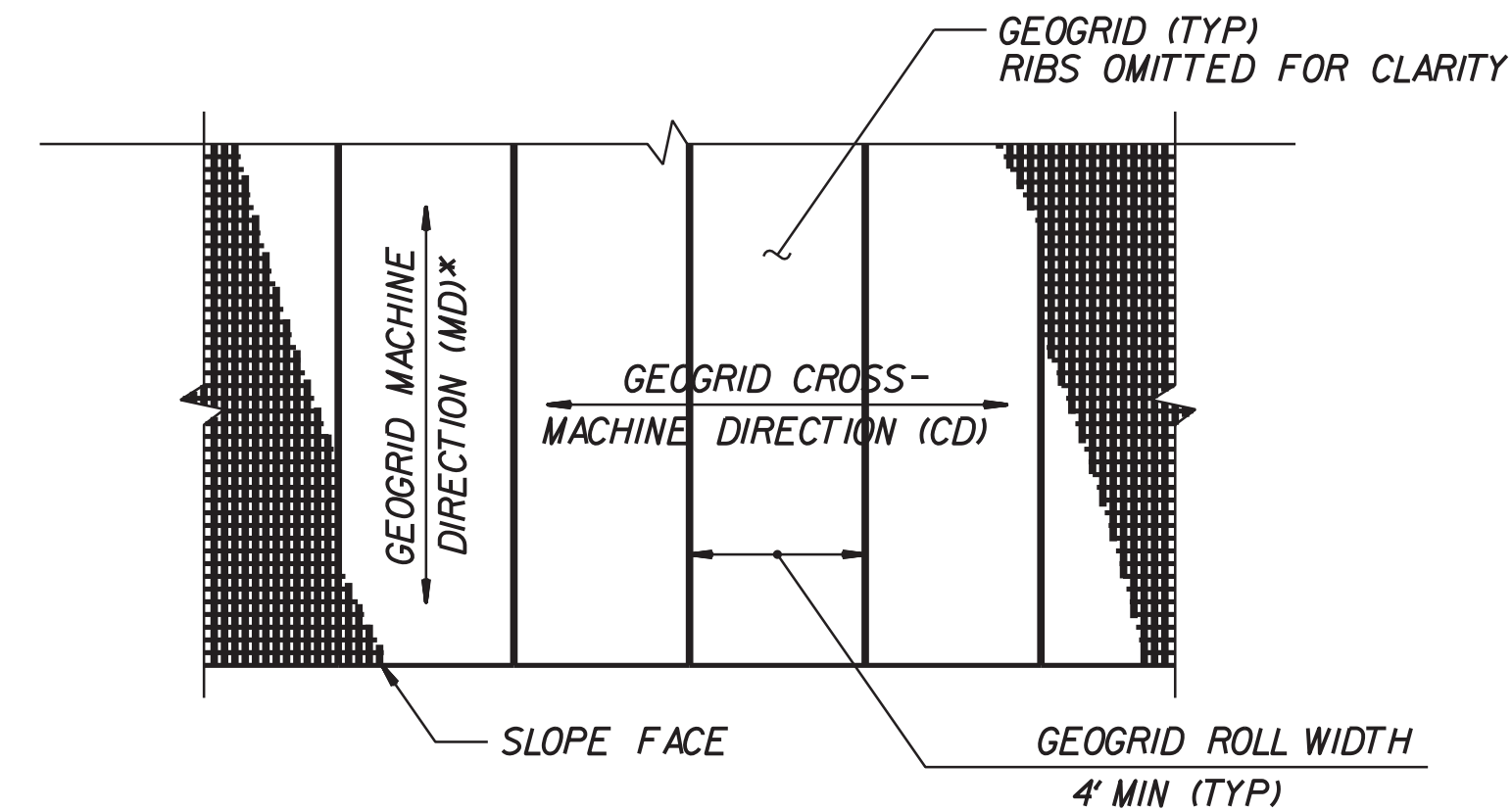
GEOGRID AND MICROGRID DETAIL



NESTED BASKET DETAIL



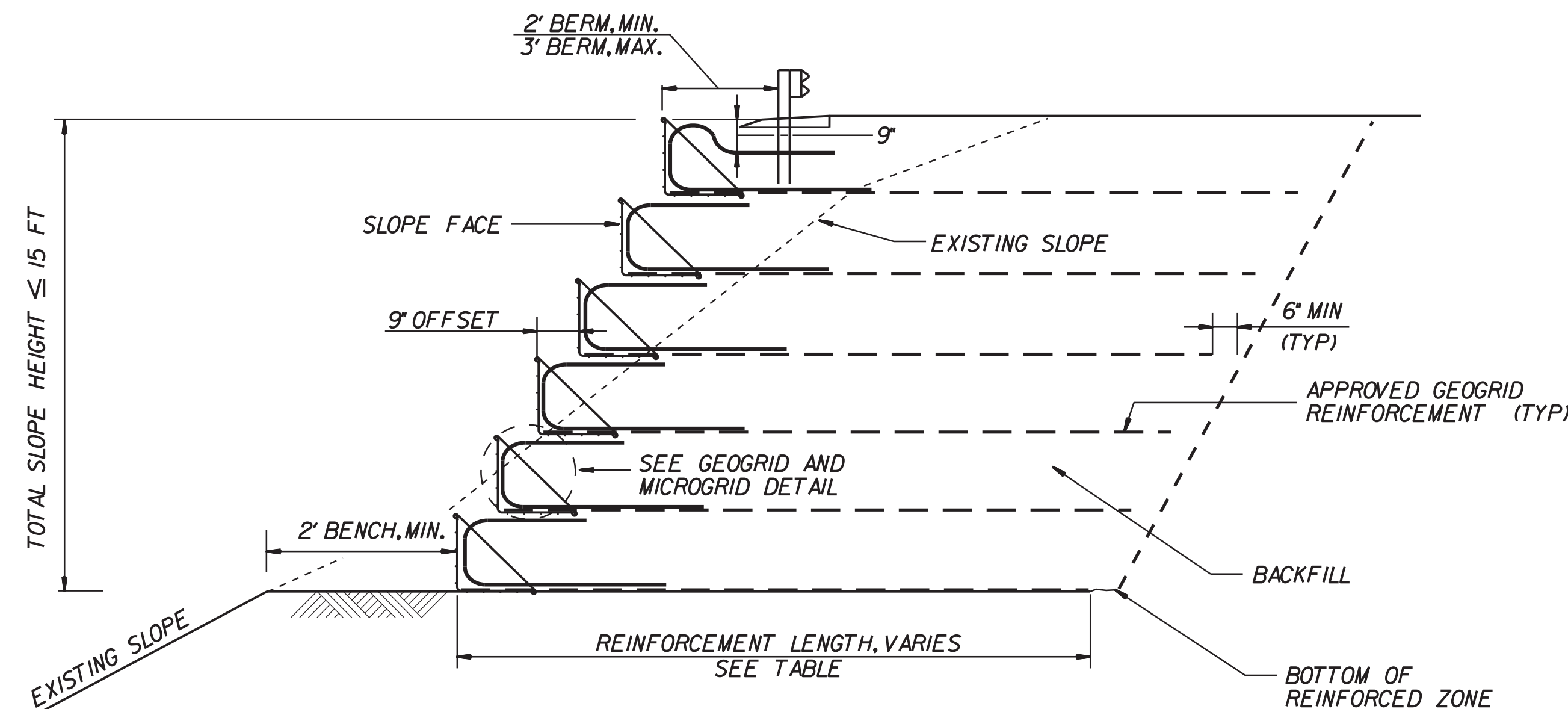
WIRE MESH FACING DETAIL



GEOGRID PLACEMENT
(100% COVERAGE MIN FOR GEOGRID REINFORCEMENT)

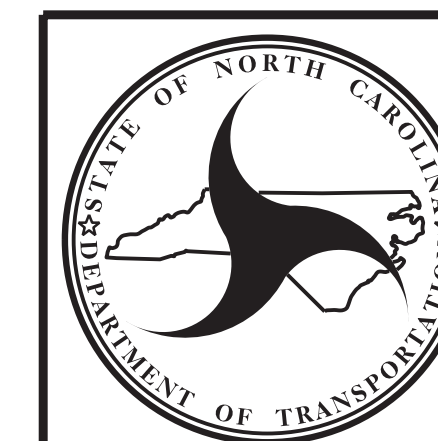
TOTAL BILL OF MATERIAL

WIRE FACED REINFORCED SOIL SLOPE	3600 SQ. FT.
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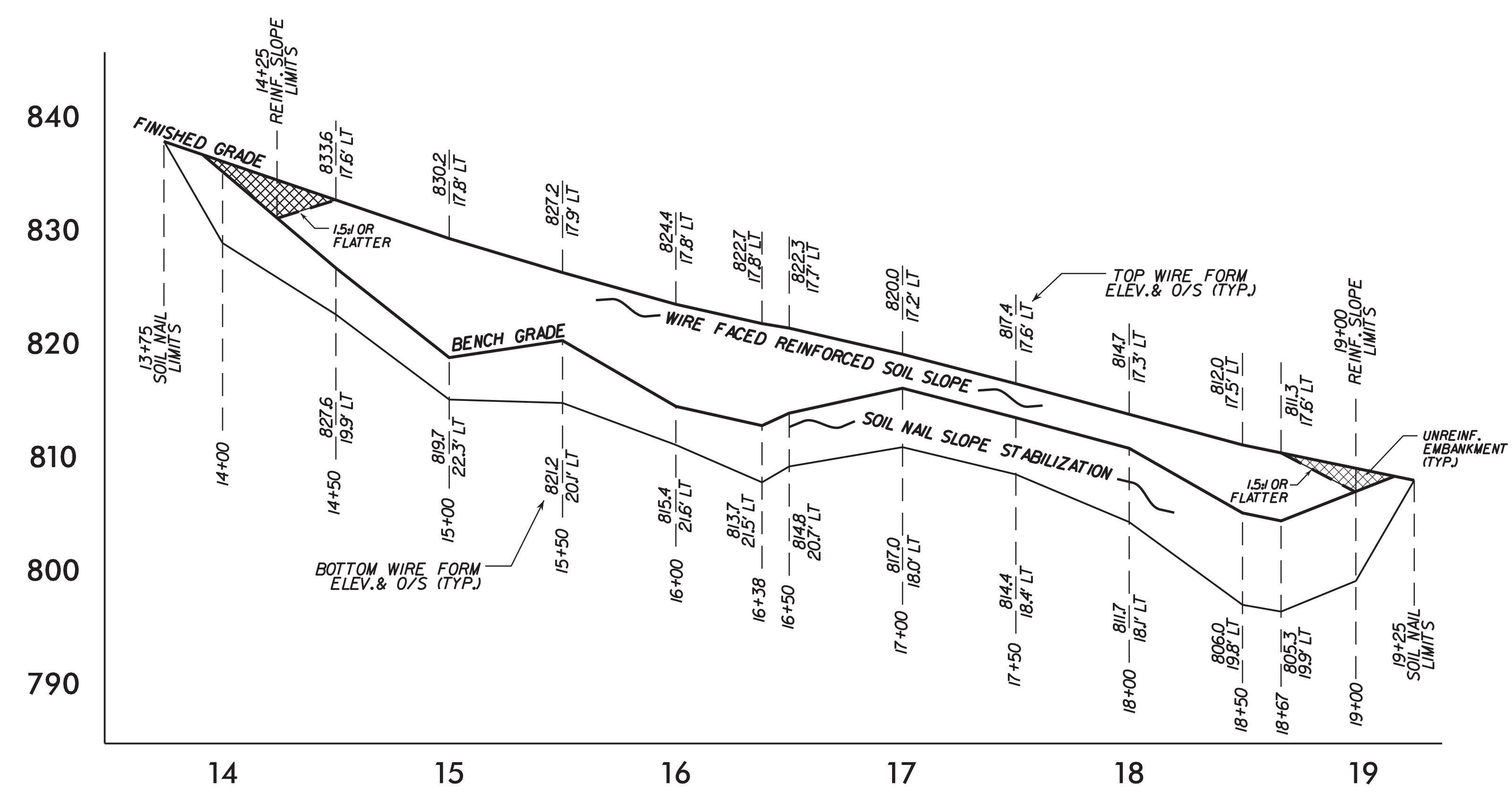
WIRE FACED REINFORCED SOIL SLOPE

FOR WIRE FACED REINFORCED SOIL SLOPE, SEE PROVISION.
 FOR GEOGRID REINFORCEMENT LENGTH, SEE TABLE.
 USE MICROGRID WITH SEEDED SHOULDER BORROW FOR FACE VEGETATION.
 DESIGN IS BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
 UNIT WEIGHT, $\gamma = 120$ LB/CF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ LB/SF
 UNDERCUT AND REPLACE VERY LOOSE OR SOFT SOIL OR MUCK LOCATED BELOW SLOPE.
 INSTALL WELDED WIRE FORMS IN A RUNNING BOND (STAGGERED) PATTERN.
 INSTALL AN APPROVED BIAXIAL GEOGRID WITH A MINIMUM LONG-TERM DESIGN STRENGTH OF 1,700 LB/FT FOR A 75-YEAR DESIGN LIFE.
 DO NOT PLACE ANY GEOGRIDS UNTIL EXCAVATION DIMENSIONS AND IN-SITU MATERIAL ARE APPROVED.
 INSTALL GEOGRIDS WITH 100% COVERAGE.

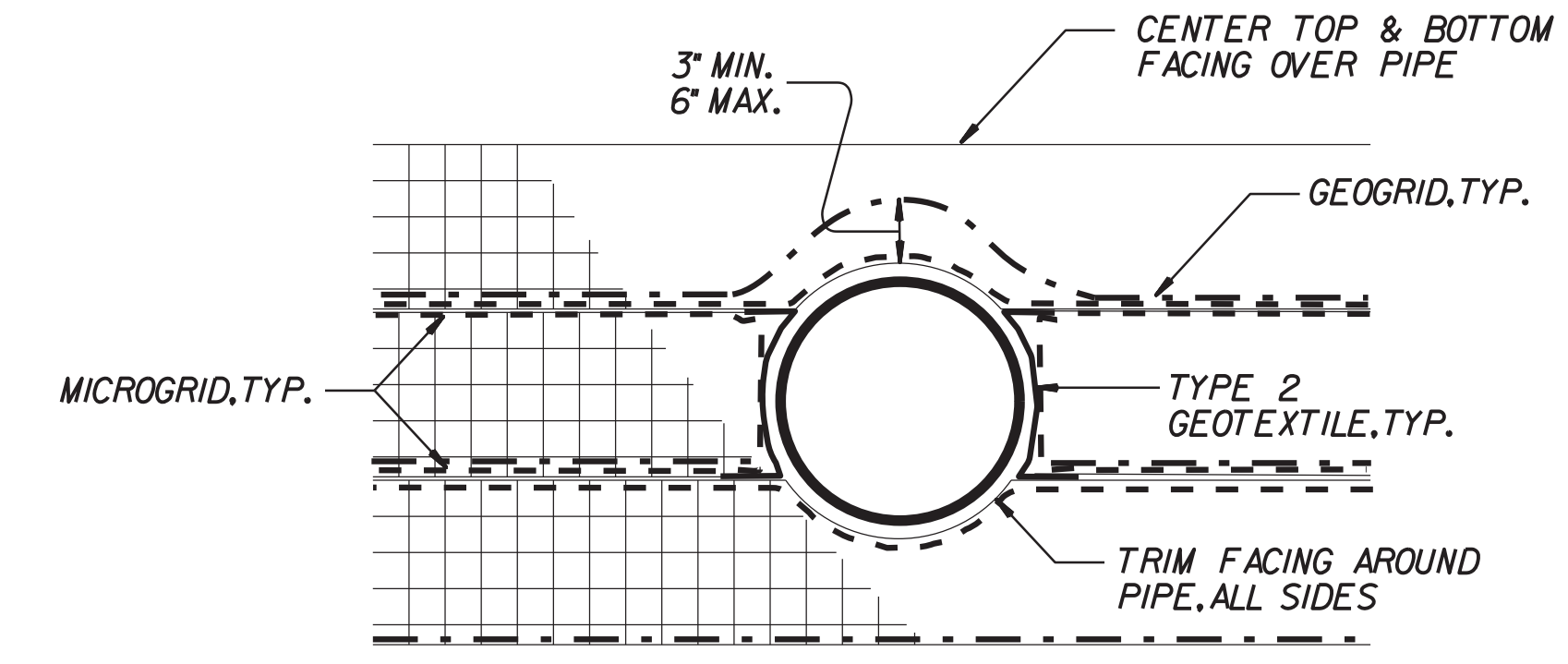


REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

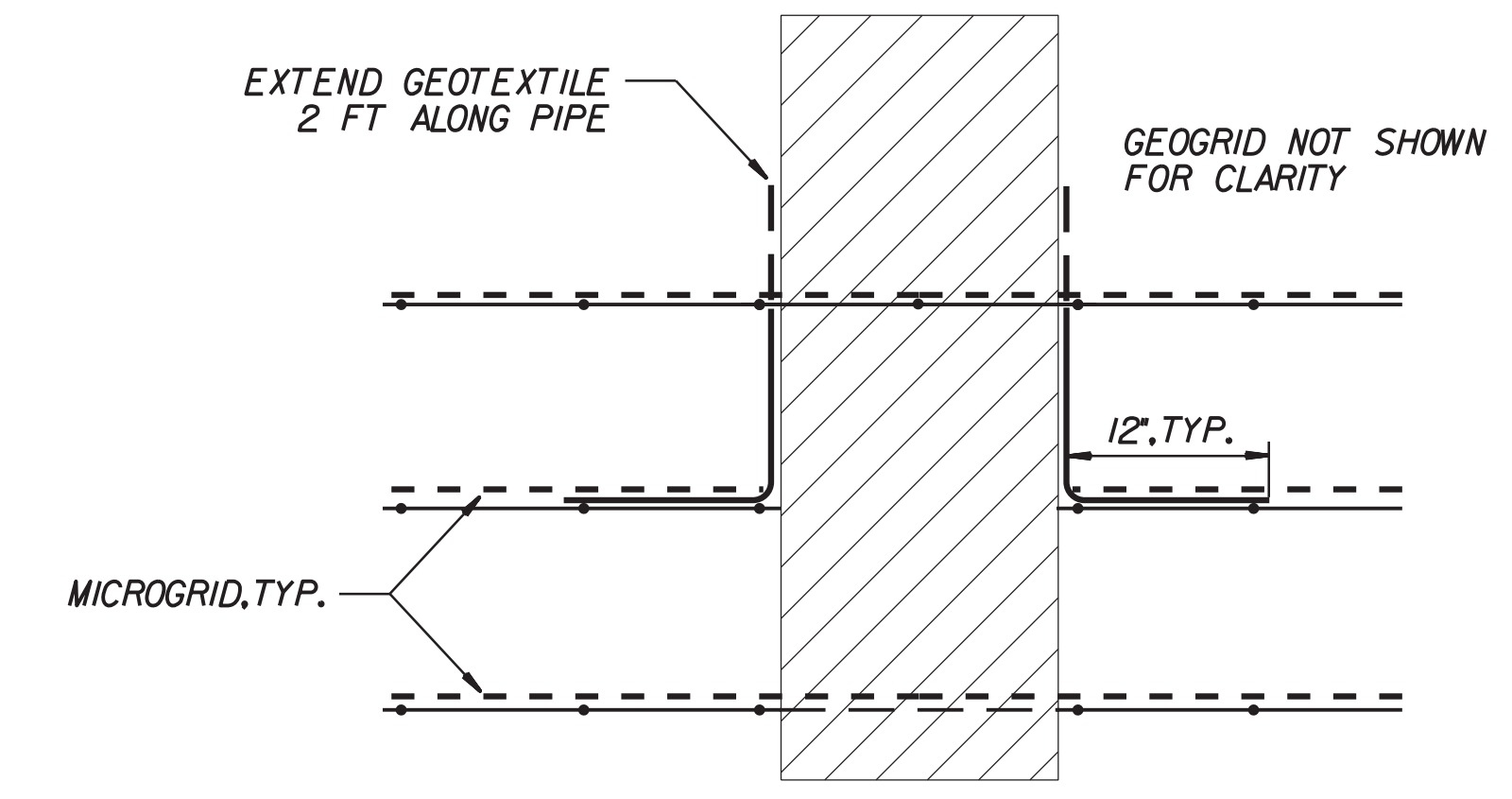
MINIMUM GEOGRID LENGTH		
BEG. STATION	END STATION	LENGTH (FT)
14+25	14+50	8
14+50	15+00	10
15+00	15+50	15
15+50	16+00	10
16+00	17+00	15
17+00	18+50	8
18+50	19+00	10



REINFORCED SOIL SLOPE ELEVATION VIEW

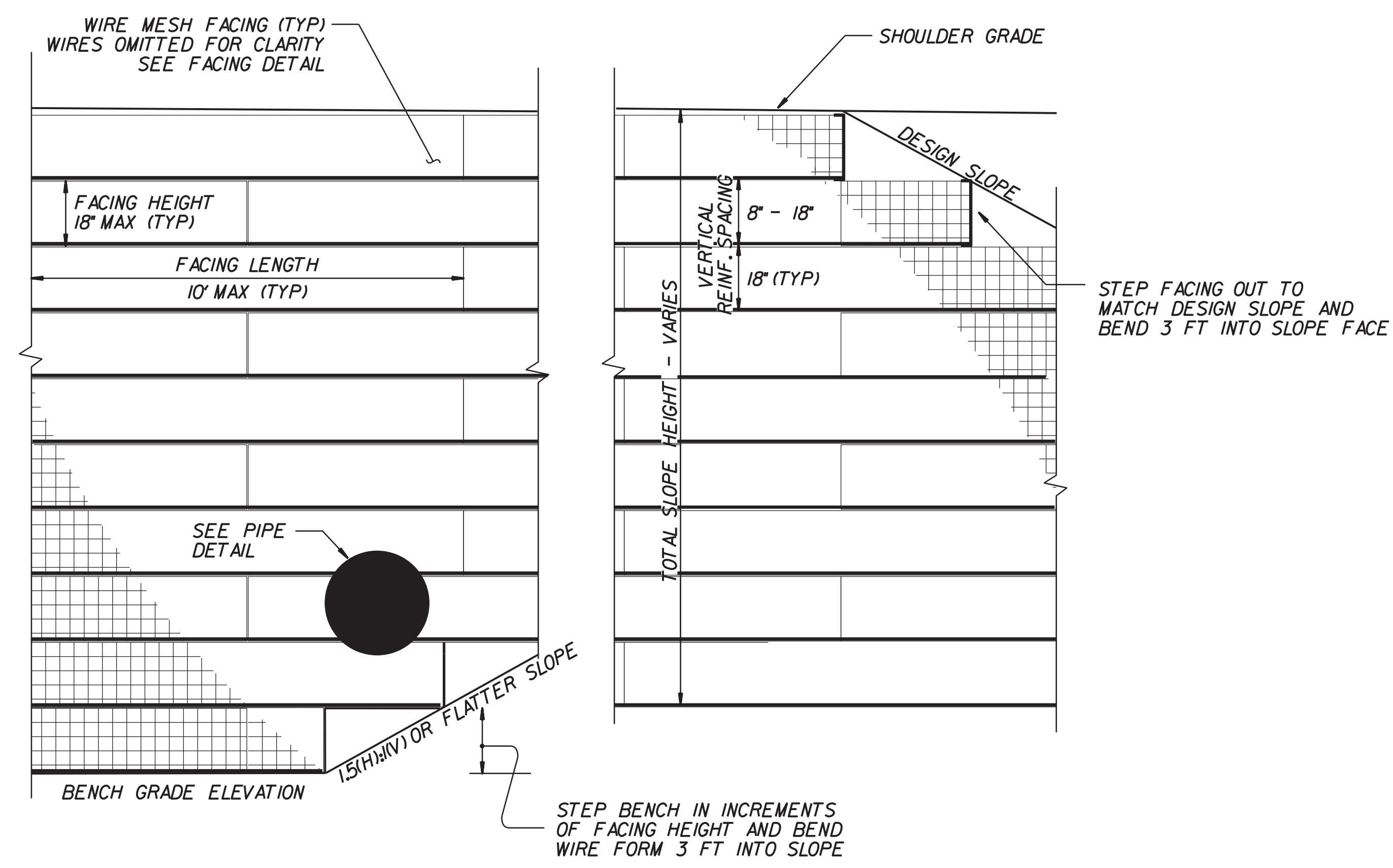


ELEVATION VIEW

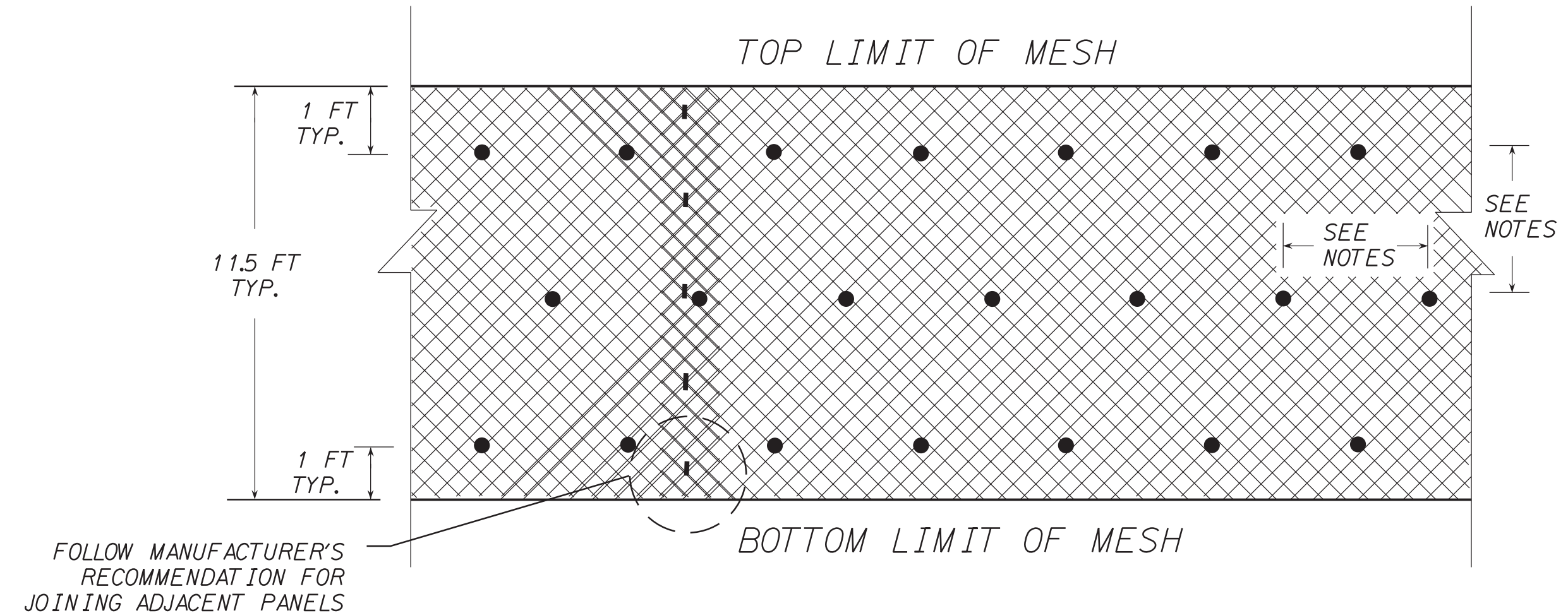


PLAN VIEW

PIPE PENETRATION DETAILS



WIRE FACED REINFORCED SOIL SLOPE - PARTIAL ELEVATION



FACE DETAIL
(SUPPLEMENTAL NAILS NOT SHOWN FOR CLARITY)

NOTES:
FOR SOIL NAIL SLOPE STABILIZATION, SEE SPECIAL PROVISION.

WIRE MESH SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE PROJECT CROSS-SECTIONS AND AS DIRECTED BY THE ENGINEER.

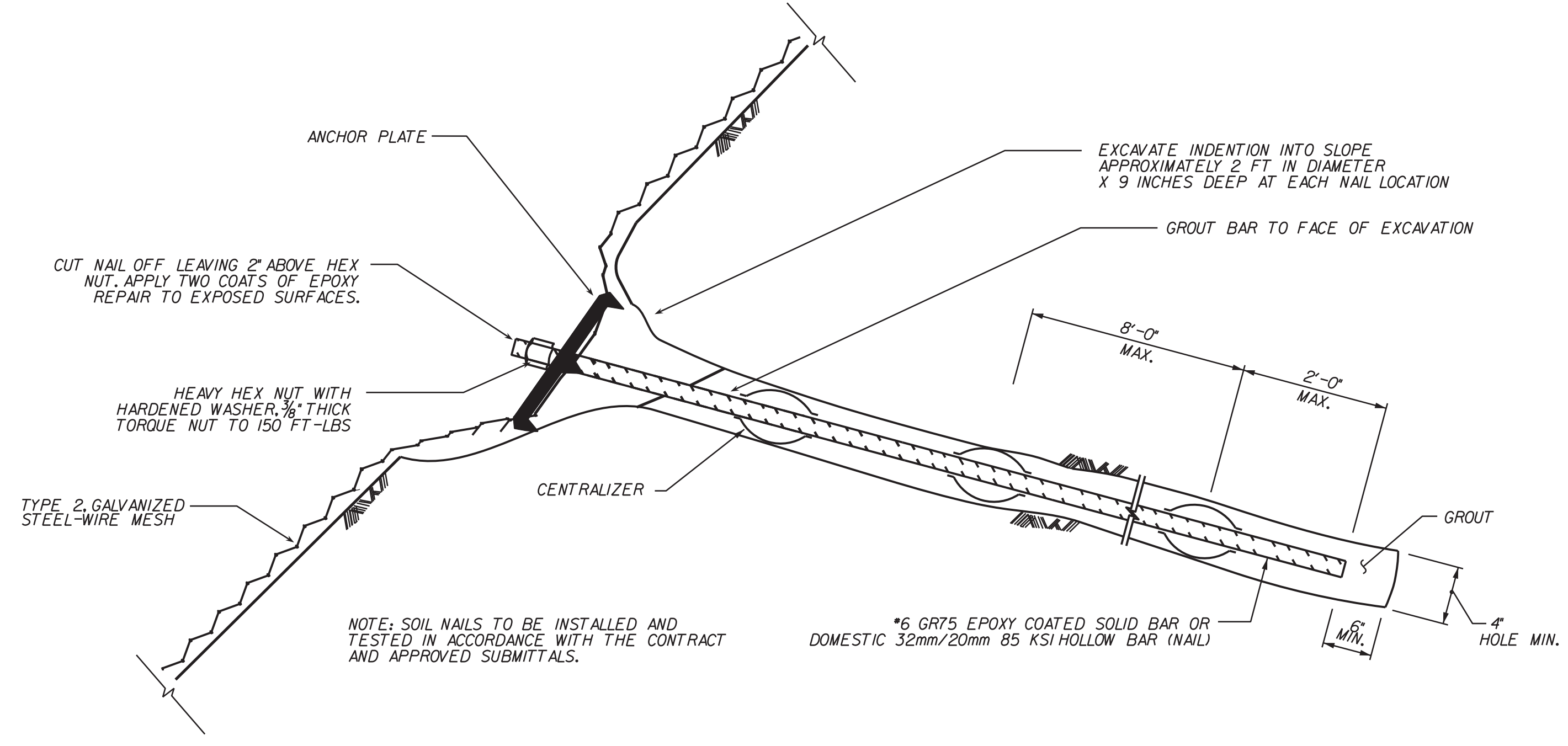
SOIL NAIL SPACING (ALONG GROUND):
VERTICAL = 4.5 FT MIN. TO 5.5 FT MAX.
HORIZONTAL = 7.5 FT TYP.

SOIL NAIL LENGTH = 15 FT (TYP)
SUPPLEMENTAL NAIL LENGTH = 10 FT

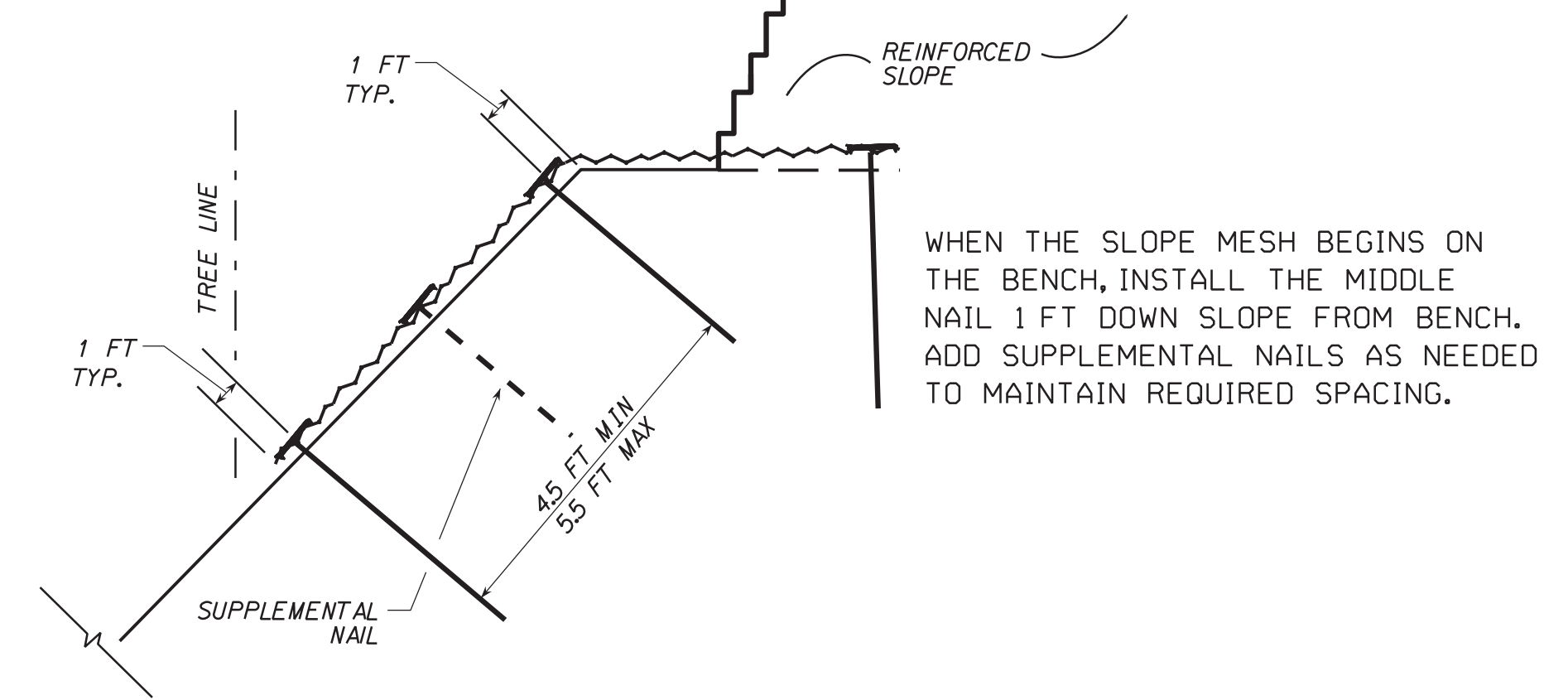
DESIGN TEST LOAD (DTL) = 10 KIPS

INSTALL NAILS INTO SLOPE APPROXIMATELY 90 DEG. TO THE FACE.

FOLLOW MANUFACTURER'S RECOMMENDATION FOR JOINING ADJACENT PANELS



NAIL & MESH DETAIL

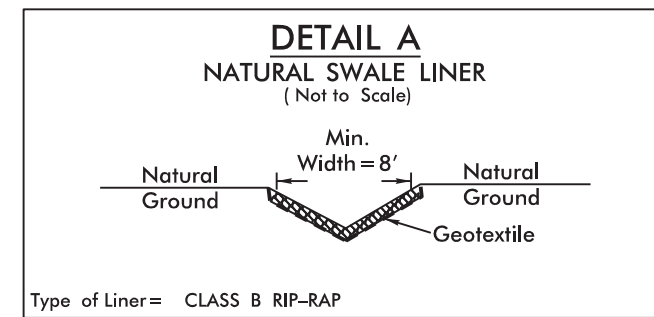
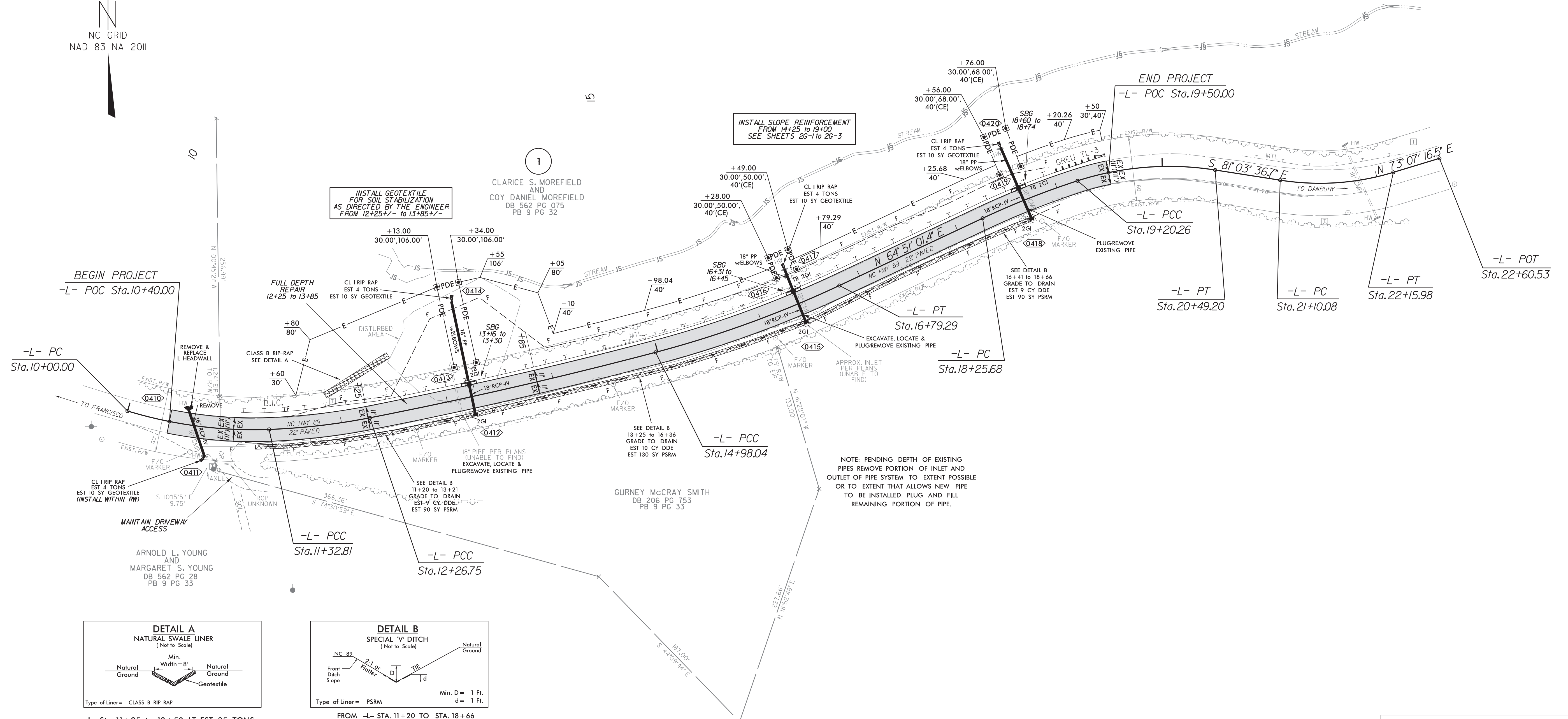


MESH ON SLOPE BENCH DETAIL

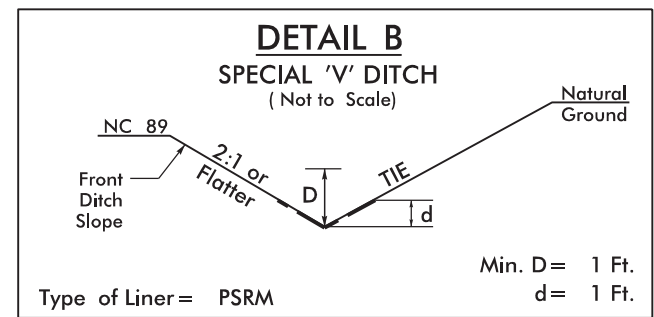
TOTAL BILL OF MATERIAL	
SOIL NAIL SLOPE STABILIZATION	703 SQ. YDS.
SOIL NAIL PROOF TESTS	12
SUPPLEMENTAL SOIL NAILS	15

PROJECT NO.: 18109.1085011
STOKES COUNTY

SHEET 1 OF 1



-L- Sta 11+95 to 12+50 LT EST. 35 TONS, EST. 95 SY GEO FAB



FROM -L- STA. 11+20 TO STA. 18+66

PI Sta 10+67.02	PI Sta 11+79.88	PI Sta 13+62.45	PI Sta 15+88.92	PI Sta 18+73.03	PI Sta 19+85.93	PI Sta 21+63.95
$\Delta = 19' 01" 24.6" (LT)$	$\Delta = 8' 58" 16.0" (LT)$	$\Delta = 3' 42" 03.2" (LT)$	$\Delta = 10' 23" 04.7" (LT)$	$\Delta = 7' 13" 29.2" (RT)$	$\Delta = 26' 51" 52.7" (RT)$	$\Delta = 25' 49" 06.9" (LT)$
$D = 14' 19" 26.2"$	$D = 9' 32" 57.5"$	$D = 1' 21" 51.1"$	$D = 5' 43" 46.5"$	$D = 7' 38" 22.0"$	$D = 20' 50" 05.4"$	$D = 24' 22" 52.3"$
$L = 132.81'$	$L = 93.95'$	$L = 271.29'$	$L = 181.25'$	$L = 94.57'$	$L = 128.94'$	$L = 105.90'$
$T = 67.02'$	$T = 47.07'$	$T = 135.69'$	$T = 90.87'$	$T = 47.35'$	$T = 65.68'$	$T = 53.86'$
$R = 400.00'$	$R = 600.00'$	$R = 4,200.00'$	$R = 1,000.00'$	$R = 750.00'$	$R = 275.00'$	$R = 235.00'$

NOTE: TRAFFIC CONTROL (ROAD CLOSURE) WILL BE PROVIDED BY NCDOT


NOTE: SEE CROSS SECTIONS FOR ROAD SUPERS

NOTE: SEE SHEET 5 FOR -L- PROFILE

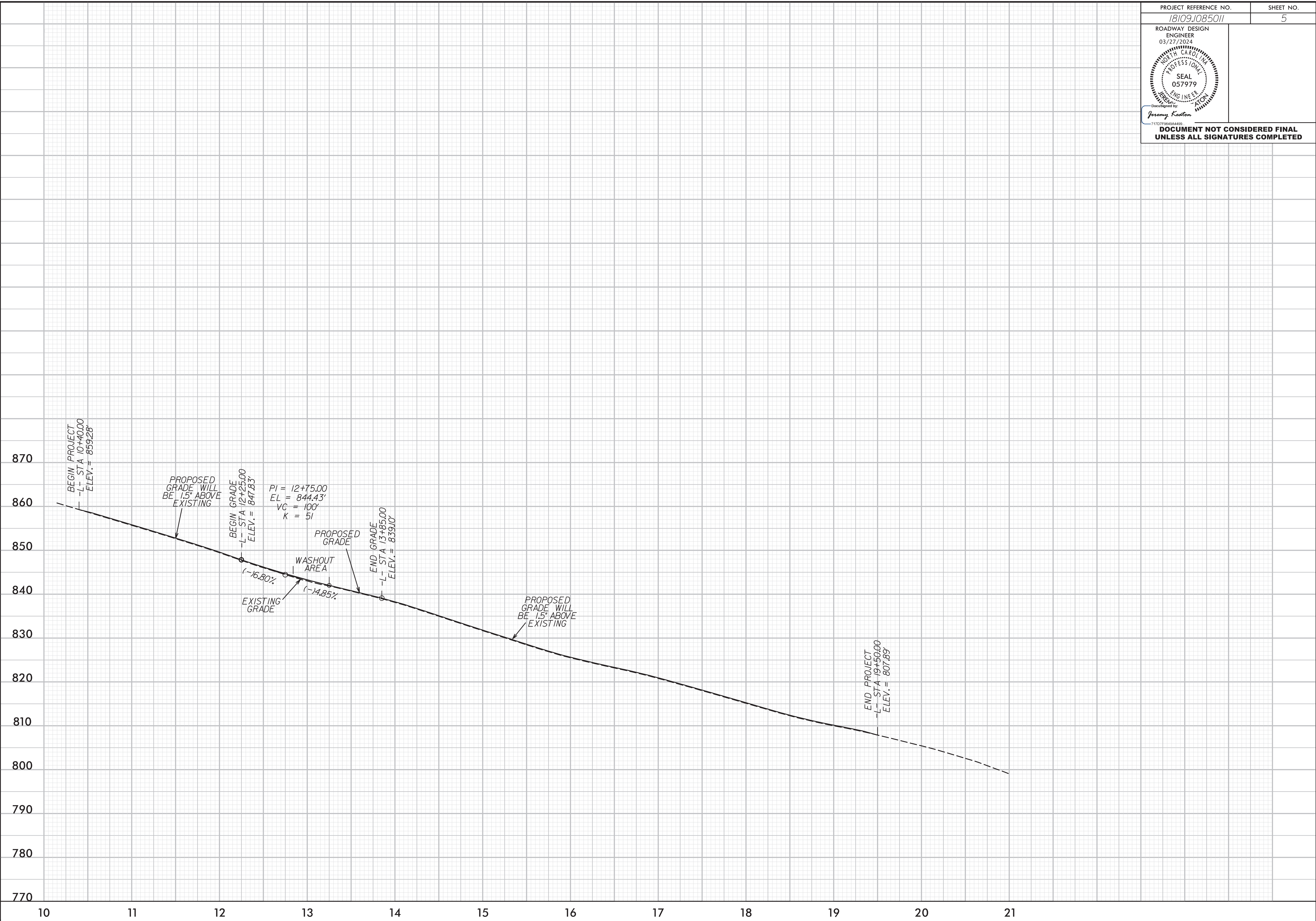
REVISIONS

27-MAR-2024 13:19 S:\DC\2024\NC89_StokesCo\Roadway\NC89_ddc.psd1.dgn 8/17/99

5/14/99

PROJECT REFERENCE NO. 18109.1085011	SHEET NO. 5
ROADWAY DESIGN ENGINEER 03/27/2024	
	
Documented by: <i>Jeremy Keaton</i> <small>711707796404499</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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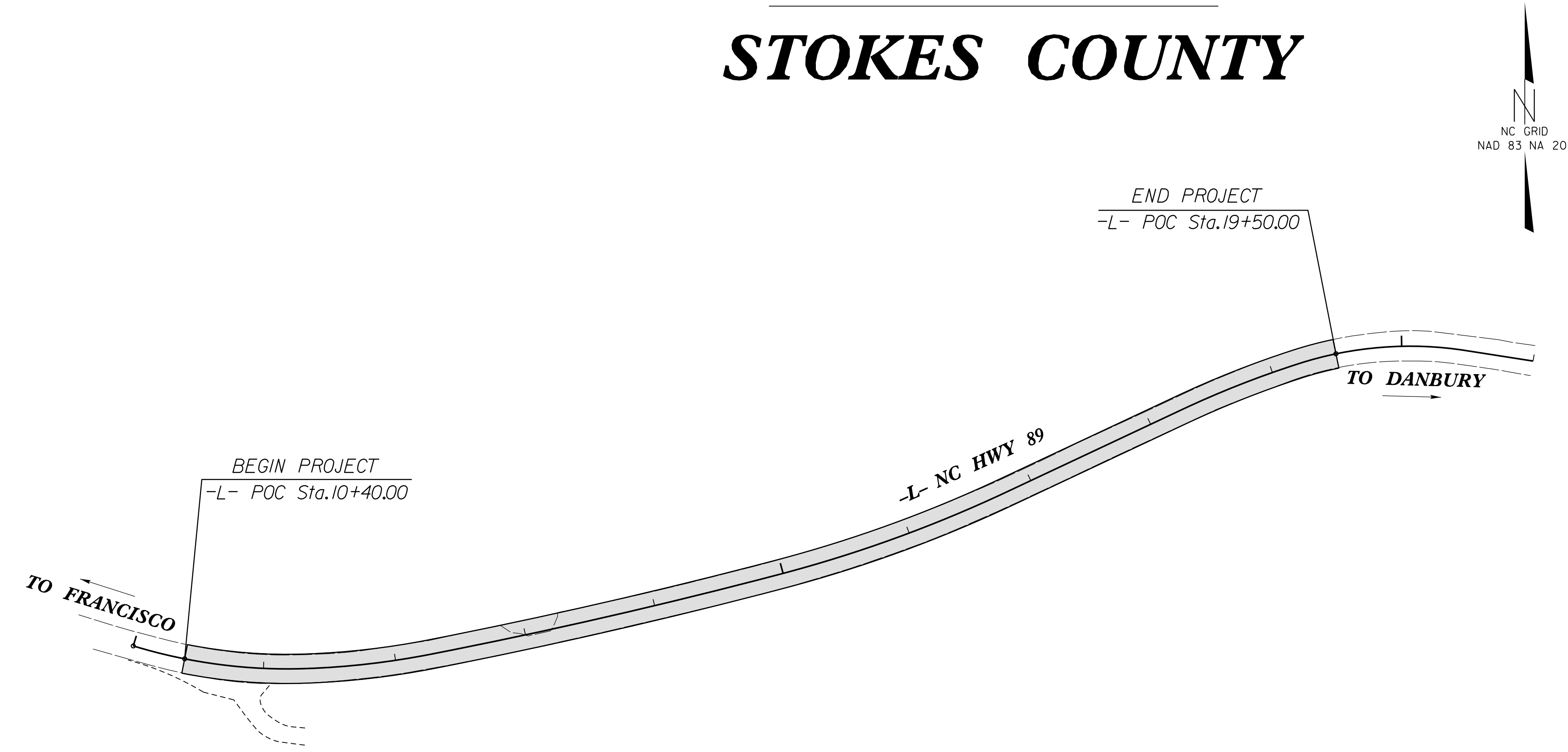
PROJECT: 18109.1085011

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
STOKES COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	18109.1085011	EC-1	5
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

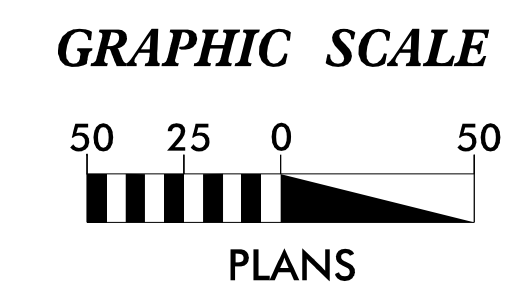
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	— T —
1630.02	Silt Basin Type B	▭
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
1635.02	Temporary Rock Silt Check Type-B	▨
	Wattle / Coir Fiber Wattle	— W —
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	— W —
1634.01	Temporary Rock Sediment Dam Type-A	▭
1634.02	Temporary Rock Sediment Dam Type-B	▭
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊂
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊂
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
	Type A	A
1632.01	Type B	B
1632.02	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭



THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT
 Refer To E. C. Special Provisions for Special Considerations.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
DIVISION 9 DDC
 375 Silas Creek Parkway
 Winston-Salem, NC 27127
2024 STANDARD SPECIFICATIONS
 Designed by:
Jeremy L. Keaton, PE, PLS 3497
 NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1636.01 Wattle Check
1630.06 Special Stilling Basin	1636.02 Silt Fence Wattle Break
1631.01 Matting Installation	1640.01 Coir Fiber Baffle
	1645.01 Temporary Stream Crossing

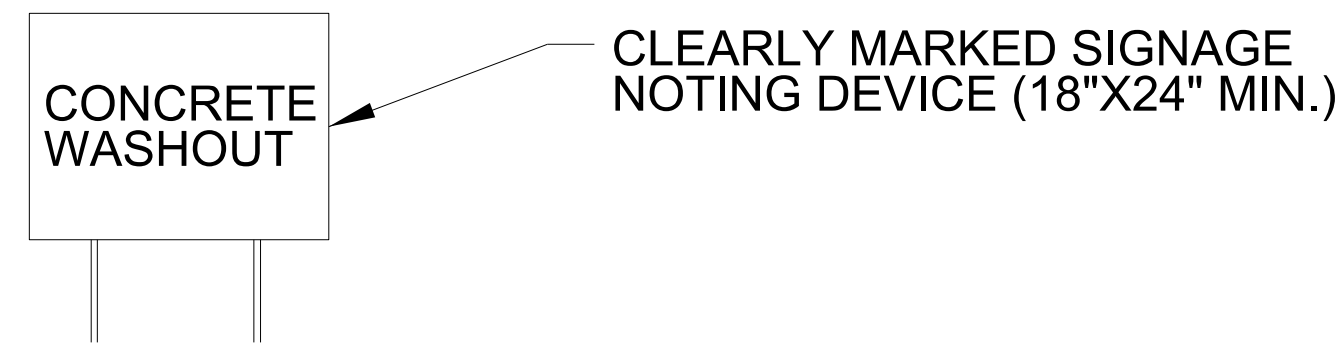
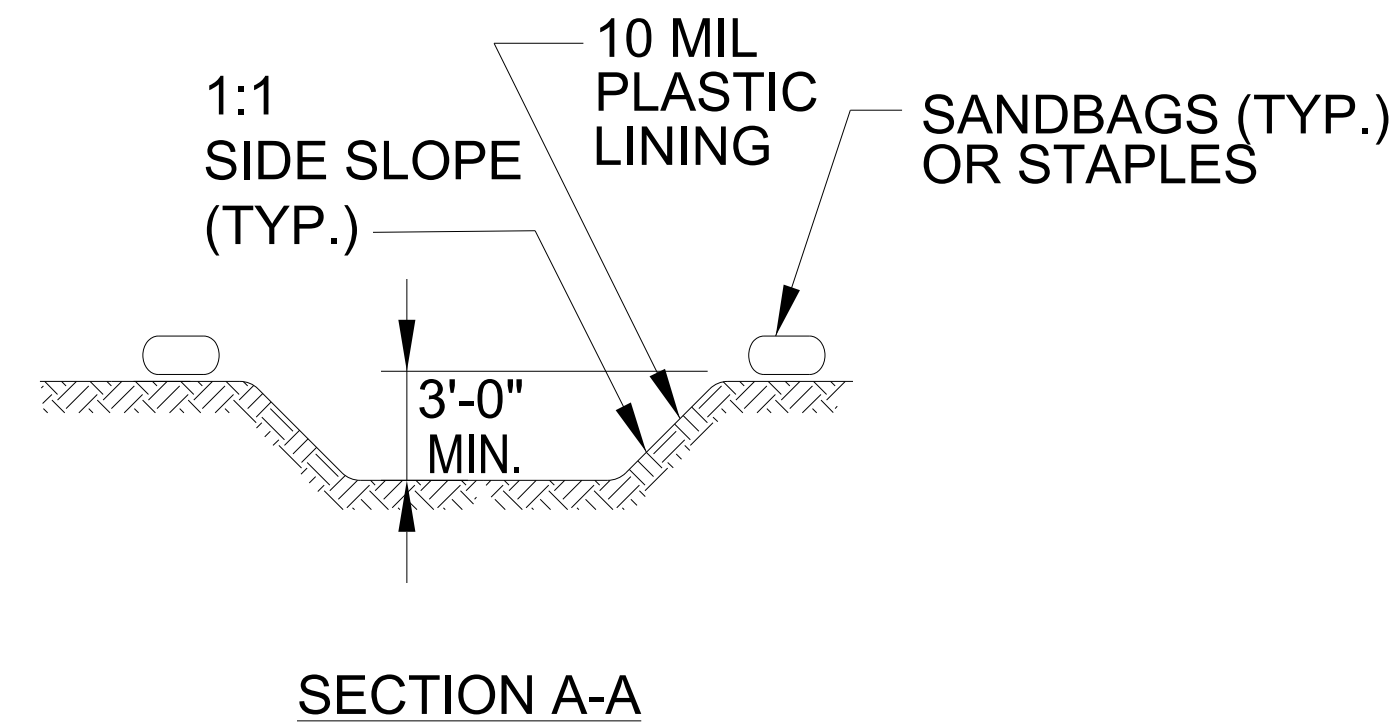
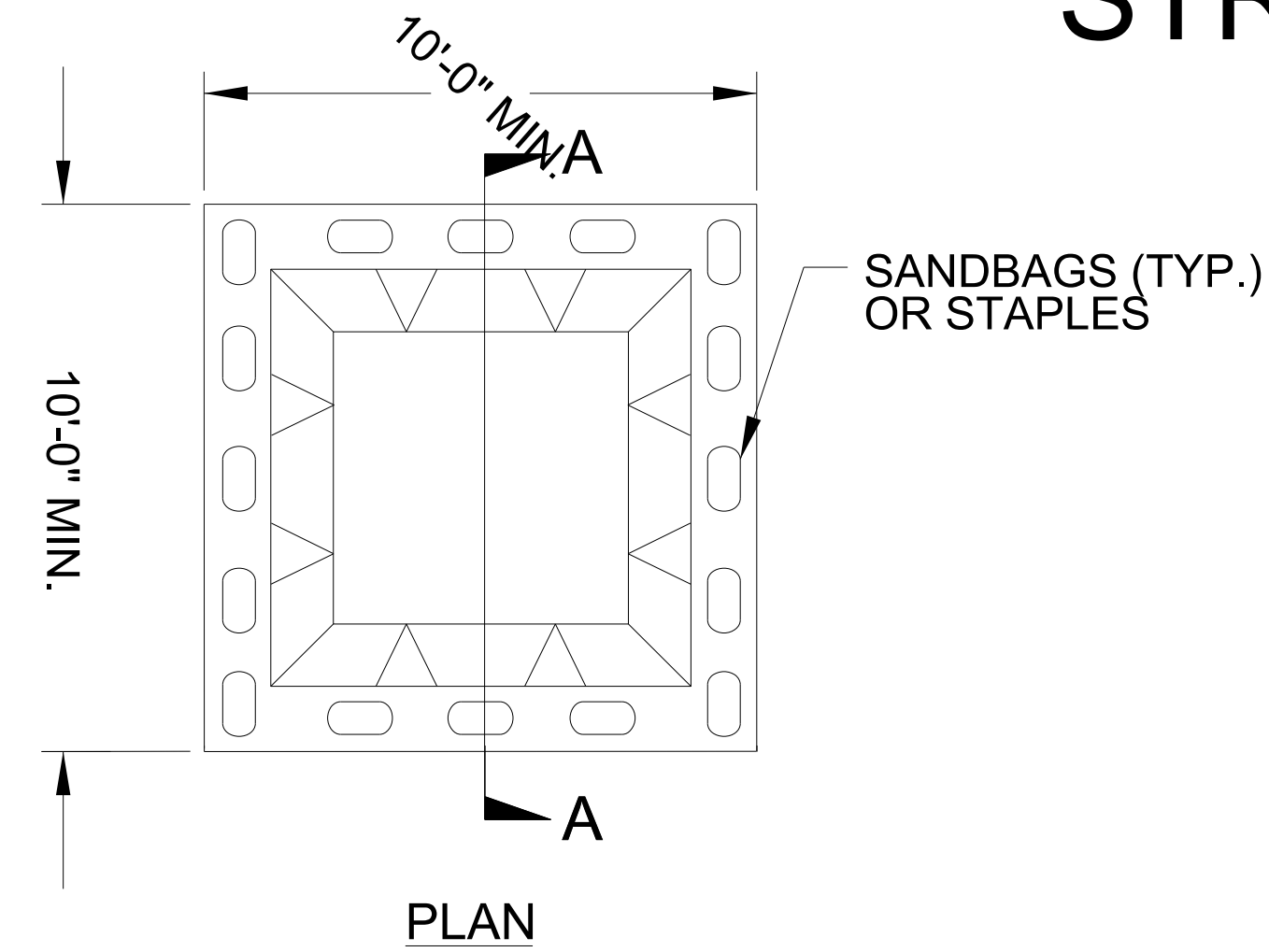
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

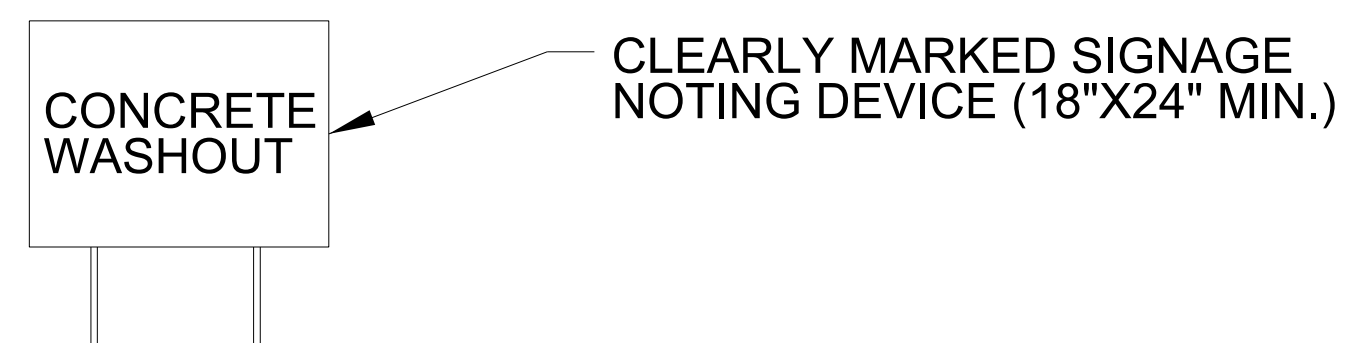
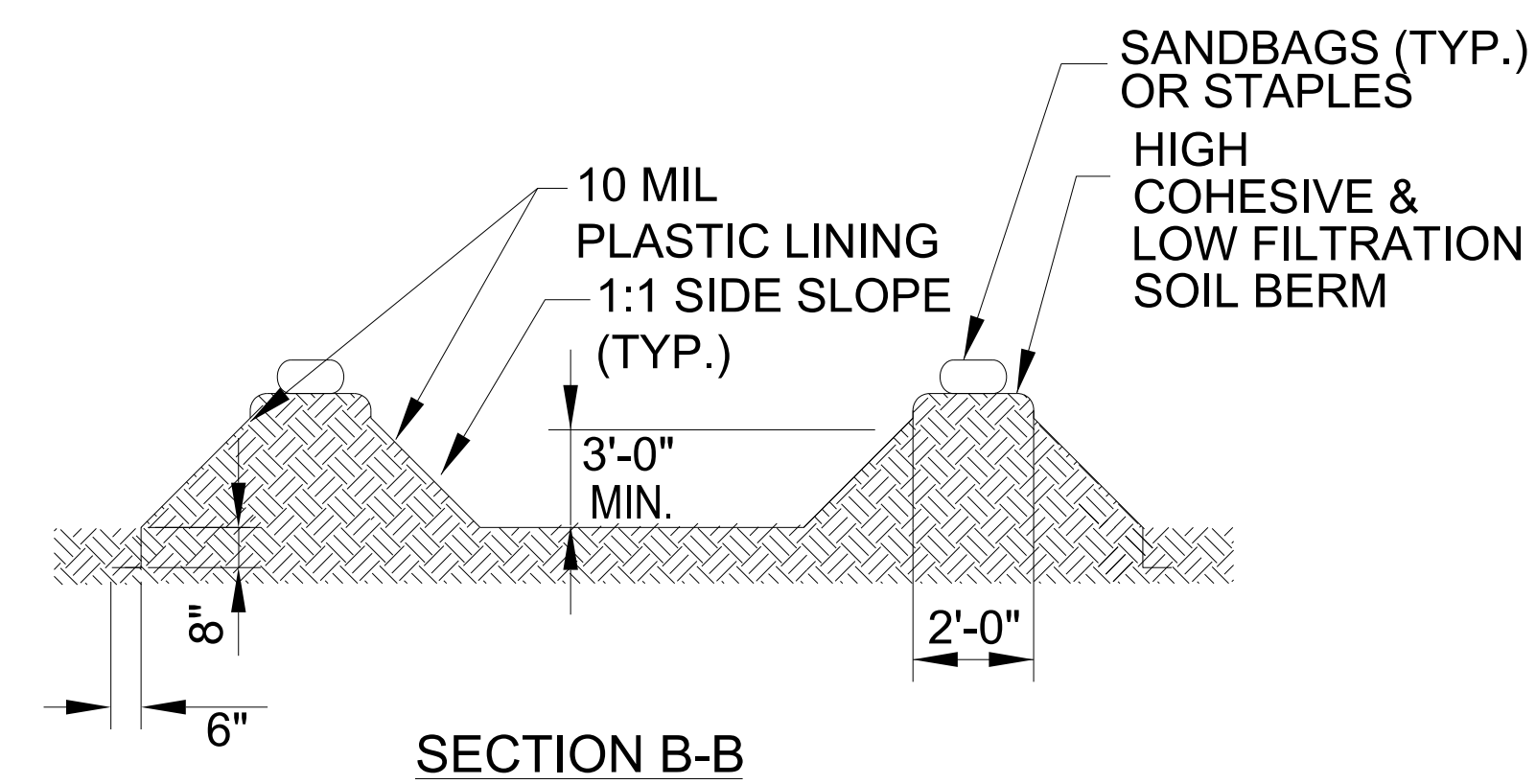
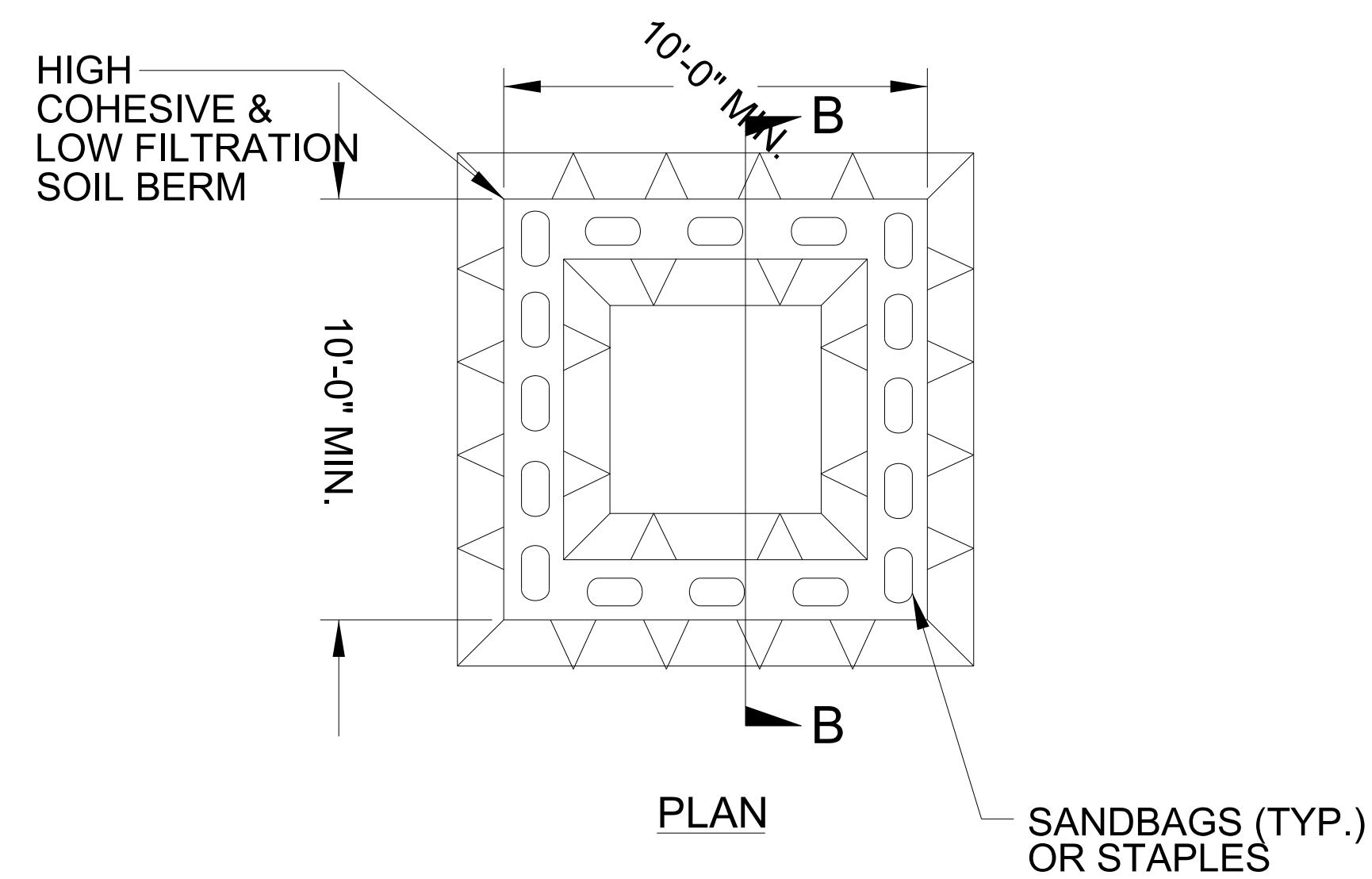
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

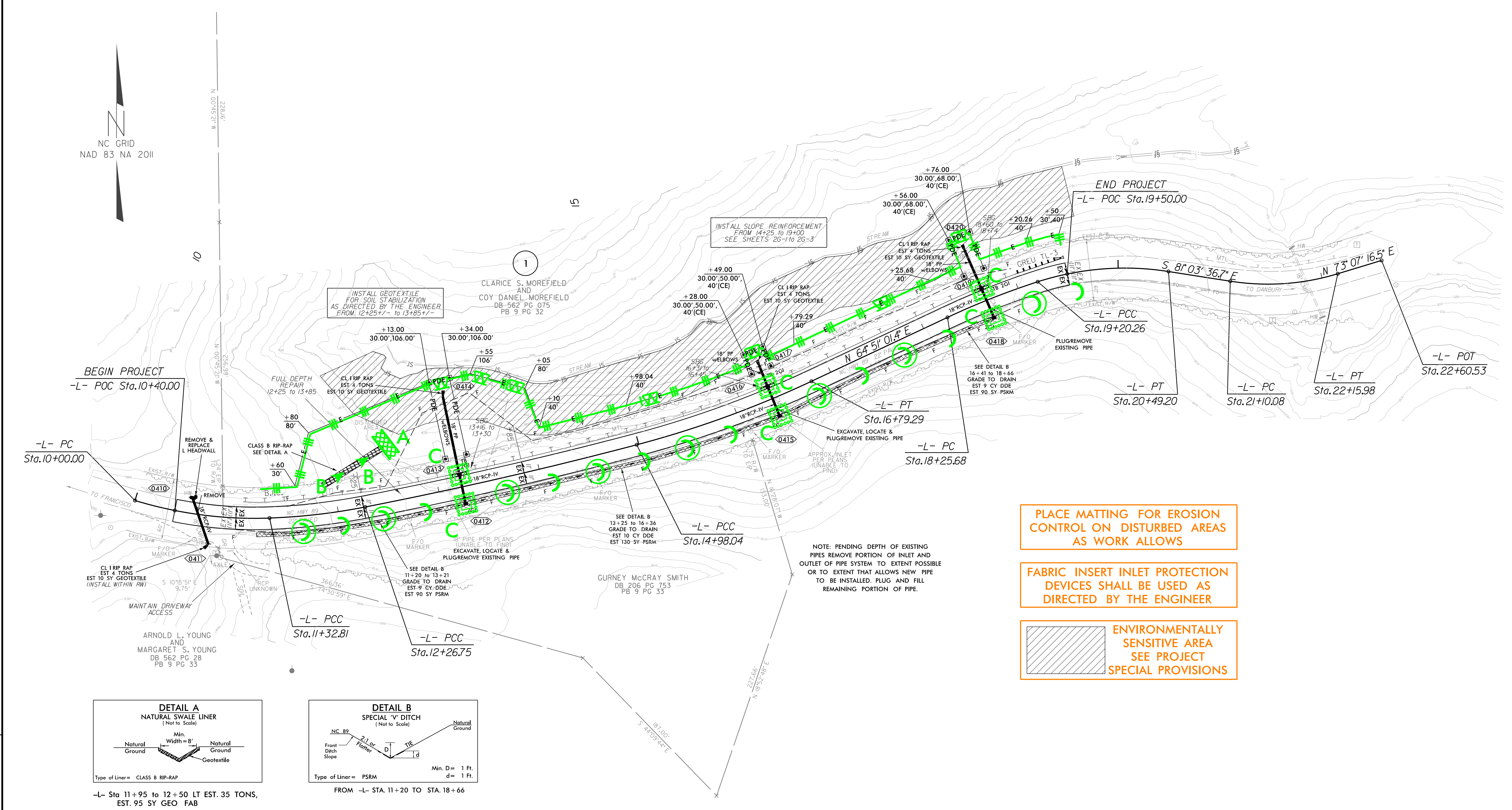
- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

8/17/99
 28-MAR-2024 11:52
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 28-MAR-2024 11:52
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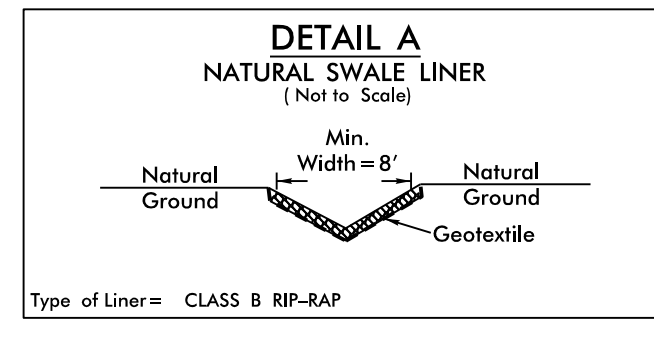


PLACE MATTING FOR EROSION CONTROL ON DISTURBED AREAS AS WORK ALLOWS

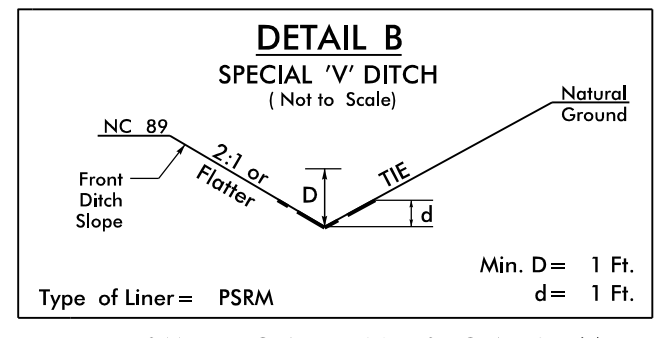
FABRIC INSERT INLET PROTECTION DEVICES SHALL BE USED AS DIRECTED BY THE ENGINEER

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

NOTE: PENDING DEPTH OF EXISTING PIPES REMOVE PORTION OF INLET AND OUTLET OF PIPE SYSTEM TO EXTENT POSSIBLE OR TO EXTENT THAT ALLOWS NEW PIPE TO BE INSTALLED. PLUG AND FILL REMAINING PORTION OF PIPE.



-L- Sta 11+95 to 12+50 LT EST. 35 TONS, EST. 95 SY GEO FAB



FROM -L- STA. 11+20 TO STA. 18+66

-L-					
PI Sta 10+67.02	PI Sta 11+79.88	PI Sta 13+62.45	PI Sta 15+88.92	PI Sta 18+73.03	PI Sta 19+85.93
$\Delta = 19' 01" 24.6" (LT)$	$\Delta = 8' 58" 16.0" (LT)$	$\Delta = 3' 42" 03.2" (LT)$	$\Delta = 10' 23" 04.7" (LT)$	$\Delta = 7' 13" 29.2" (RT)$	$\Delta = 26' 51" 52.7" (RT)$
$D = 14' 19" 26.2"$	$D = 9' 32" 57.5"$	$D = 1' 21" 51.1"$	$D = 5' 43" 46.5"$	$D = 7' 38" 22.0"$	$D = 20' 50" 05.4"$
$L = 132.81'$	$L = 93.95'$	$L = 271.29'$	$L = 181.25'$	$L = 94.57'$	$L = 128.94'$
$T = 67.02'$	$T = 47.07'$	$T = 135.69'$	$T = 90.87'$	$T = 47.35'$	$T = 65.68'$
$R = 400.00'$	$R = 600.00'$	$R = 4,200.00'$	$R = 1,000.00'$	$R = 750.00'$	$R = 275.00'$
					PI Sta 21+63.95
					$\Delta = 25' 49" 06.9" (LT)$
					$D = 24' 22" 52.3"$
					$L = 105.90'$
					$T = 53.86'$
					$R = 235.00'$

NOTE: SEE CROSS SECTIONS FOR ROAD SUPERS

NOTE: SEE SHEET 5 FOR -L- PROFILE

09.08/99

TIP PROJECT: 18109.1085011

CONTRACT: DI00345

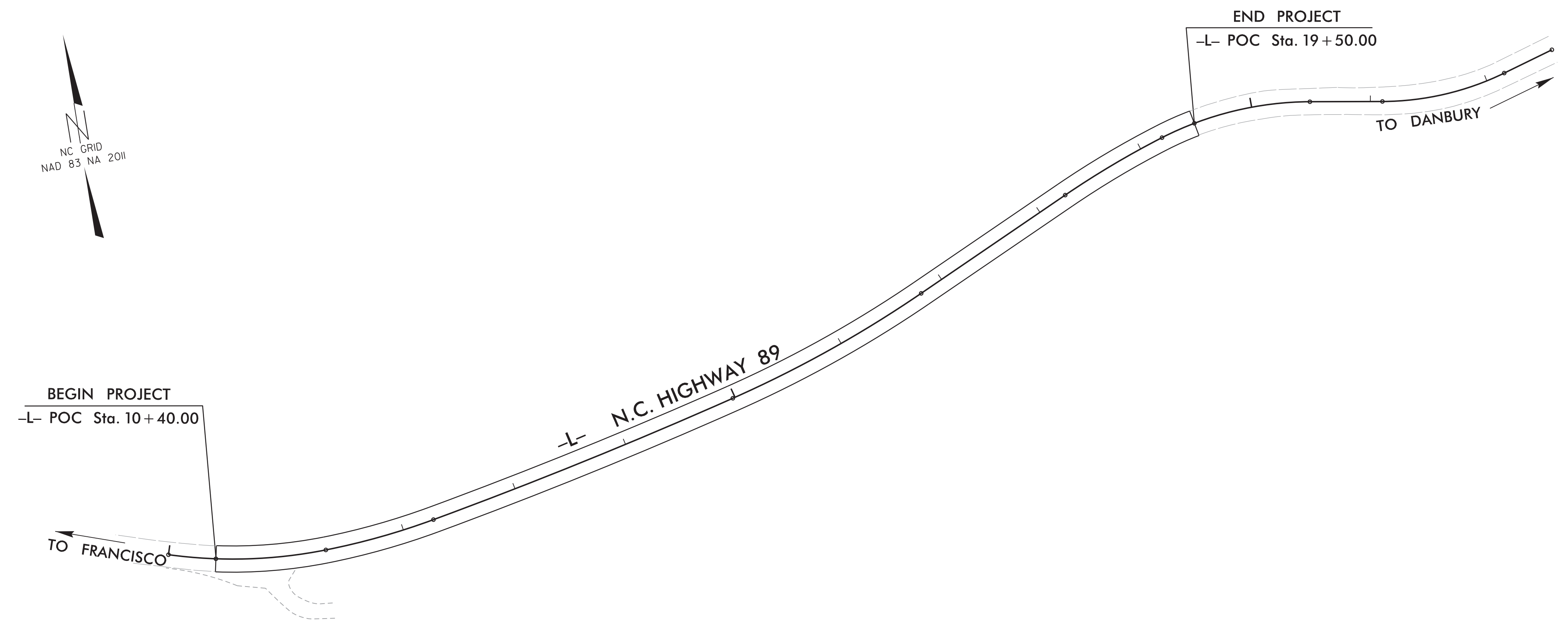
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	18109.1085011	RW1	3

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES
 RIGHT OF WAYS, EASEMENTS AND PROPERTY TIES

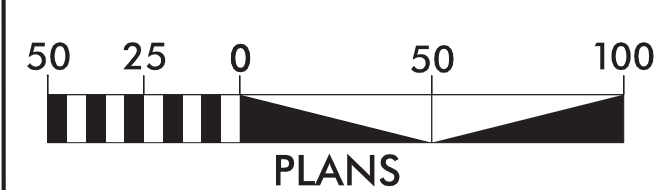
STOKES COUNTY

LOCATION: N.C. HIGHWAY 89



28-MAR-2024 13:45 S:\DDC\2024-NC89-StokesCo\Surveys\Control Sheets\NC89-ddc-RW1-tsh.dgn jkredon AT DIV09-329587L

GRAPHIC SCALES



RW1 NOT TO SCALE

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BL-2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 979405.585 (ft) EASTING: 1632220.828 (ft) ELEVATION: 855.736 (ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999499475

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-2" TO -L- STATION 10+00.00 IS N 71° 44' 31.14" W, 107.583 (ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

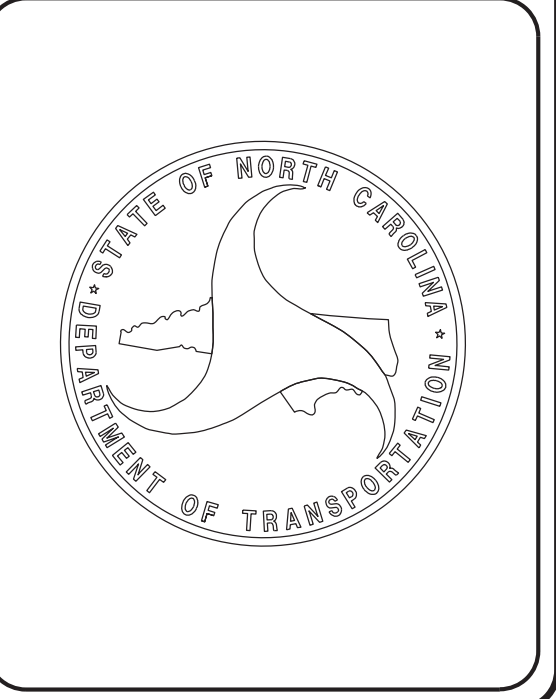
Prepared In the Office of:
DIVISION OF HIGHWAYS
 NINTH DIVISION DESIGN/CONSTRUCT
 375 SILAS CREEK PARKWAY WINSTON-SALEM, N.C. 27127
 2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: FEBRUARY 26, 2024	JEREMY L. KEATON, PE, PLS PROJECT ENGINEER
LETTING DATE: APRIL 24, 2024	JEREMY L. KEATON, PE, PLS PROJECT DESIGN ENGINEER

PROFESSIONAL LAND SURVEYOR


DocuSigned by:
 Jeremy Keaton
 1107282484889
 SIGNATURE: _____

03/28/2024



SURVEY CONTROL SHEET

W/ CENTERLINE ALIGNMENTS AND EASEMENTS

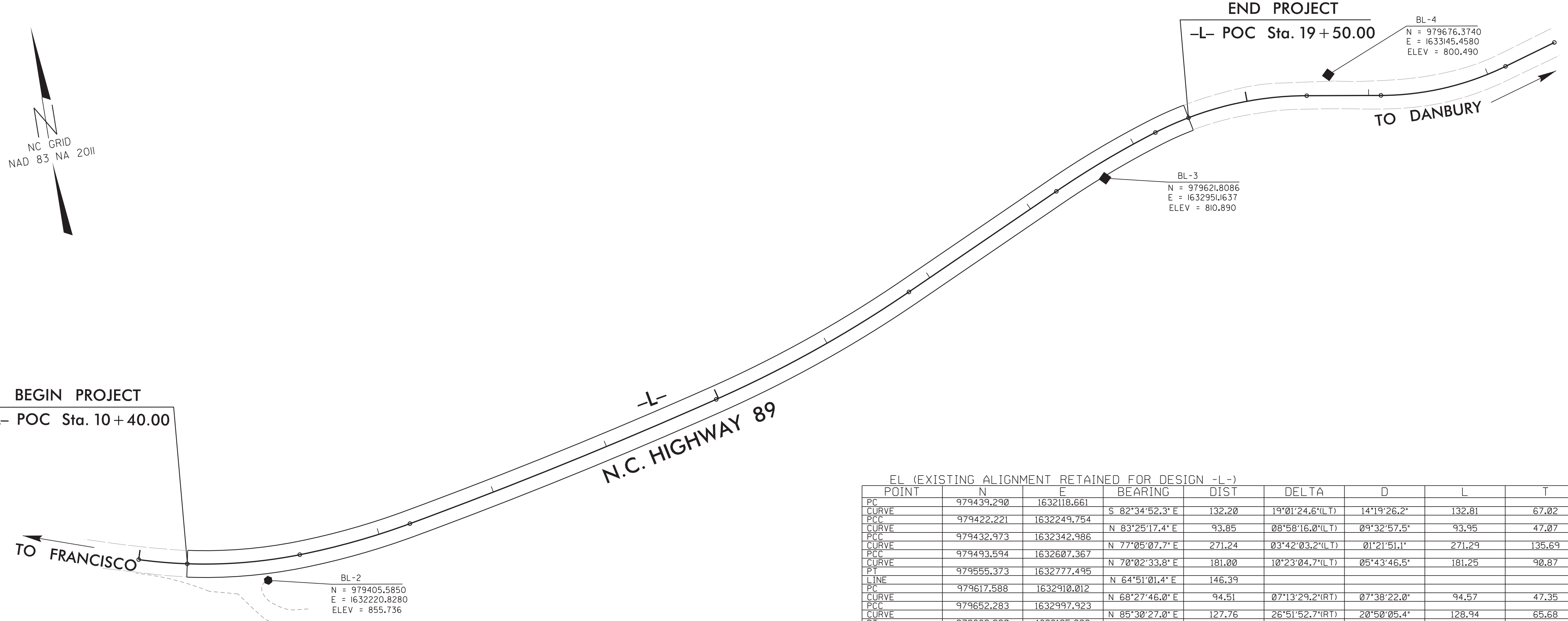
PROJECT REFERENCE NO.	SHEET NO.
18109.1085011	RW-2C
DDC	
PROJECT SURVEYOR	
	
DocuSigned by: <i>Jeremy Keaton</i> 711D7F9648A4499	03/28/2024
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1	BL-1		979548.8050	1631782.7160	875.693 (OUTSIDE LIMITS)
2	BL-2		979405.5850	1632220.8280	855.736
T1	BL-3		979621.8086	1632951.1637	810.890
T3	BL-4		979676.3740	1633145.4580	800.490



BEGIN PROJECT
-L- POC Sta. 10 + 40.00

END PROJECT
-L- POC Sta. 19 + 50.00



EL (EXISTING ALIGNMENT RETAINED FOR DESIGN -L-)										
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
PC	979439.290	1632118.661	S 82°34'52.3" E	132.20	19°01'24.6"(LT)	14°19'26.2"	132.01	67.02	400.00	
CURVE	979422.221	1632249.754	N 83°25'17.4" E	93.85	08°58'16.0"(LT)	09°32'57.5"	93.95	47.07	600.00	
PCC	979432.973	1632342.986	N 77°05'07.7" E	271.24	03°42'03.2"(LT)	01°21'51.1"	271.29	135.69	4200.00	
CURVE	979493.594	1632607.367	N 70°02'33.8" E	181.00	10°23'04.7"(LT)	05°43'46.5"	181.25	90.87	1000.00	
PT	979555.373	1632777.495	N 64°51'01.4" E	146.39						
PC	979617.588	1632910.012	N 68°27'46.0" E	94.51	07°13'29.2"(RT)	07°38'22.0"	94.57	47.35	750.00	
CURVE	979652.283	1632997.923	N 85°30'27.0" E	127.76	26°51'52.7"(RT)	20°50'05.4"	128.94	65.68	275.00	
PCC	979662.290	1633125.293	S 81°03'36.7" E	60.89						
PT	979652.829	1633185.439	N 86°01'49.9" E	105.00	25°49'06.9"(LT)	24°22'52.3"	105.90	53.86	235.00	
CURVE	979660.098	1633290.189	N 73°07'16.5" E	44.55						
POT	979673.034	1633332.824								

	STATION	NORTH	EAST
PC	10+00.00	979439.2905	1632118.6609
PCC	11+32.81	979422.2207	1632249.7541
PCC	12+26.75	979432.9725	1632342.9857
PCC	14+98.04	979493.5943	1632607.3665
PT	16+79.29	979555.3725	1632777.4953
PC	18+25.68	979617.5879	1632910.0121
PCC	19+20.26	979652.2828	1632997.9229
PT	20+49.20	979662.2903	1633125.2935
PC	21+10.08	979652.8290	1633185.4390
PT	22+15.98	979660.0977	1633290.1889
POT	22+60.53	979673.0341	1633332.8242

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
L	13+13.00	-106.00	979553.9817	1632404.9784
*L	13+13.00	-30.00	979479.7095	1632421.0918
L	13+34.00	-106.00	979558.3717	1632424.9721
*L	13+34.00	-30.00	979484.1810	1632441.4566
L	16+28.00	-50.00	979581.0651	1632711.6283
L	16+28.00	-30.00	979562.5491	1632719.1887
L	16+49.00	-50.00	979588.7999	1632730.0175
L	16+49.00	-30.00	979570.4468	1632737.9650
L	18+56.00	-68.00	979692.5846	1632911.3185
L	18+56.00	-30.00	979657.5624	1632926.0647
L	18+76.00	-68.00	979700.7803	1632931.5330
L	18+76.00	-30.00	979665.3775	1632945.3401

MARKER EXCEPTIONS:
* - POINT NOT SET

- EASEMENT AND R/W MARKER NOTES:**
- UNLESS OTHERWISE NOTED, ALL PERMANENT EASEMENT MARKERS HAVE BEEN SET AS REBAR WITH ALUMINUM CAP
 - ANY MARKER EXCEPTIONS ARE LISTED BELOW THEIR RESPECTIVE TABLE
- NOTES:**
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 - IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION 9 DDC UNIT.

I, Jeremy L. Keaton, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed January 2024 to February 2024, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

I, Jeremy L. Keaton, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
 Type of GPS field procedure: RTN
 Dates of survey: January 2024
 Datum/Epoch: NAD 83(2011)/2010.00
 Published/Fixed-control use: N/A
 Localized around: "BL-2"
 Northing: 979405.585(f)
 Easting: 1632220.828(f)
 Combined grid factor: 0.9999499475
 Geoid model: 12B (Conus)
 Units: U.S. Survey Feet


I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 1/13/24 to 1/20/24, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of March, 2024.
 DocuSigned by:
Jeremy Keaton
 711D7F9648A4499
 Professional Land Surveyor L-4487
 03/28/2024



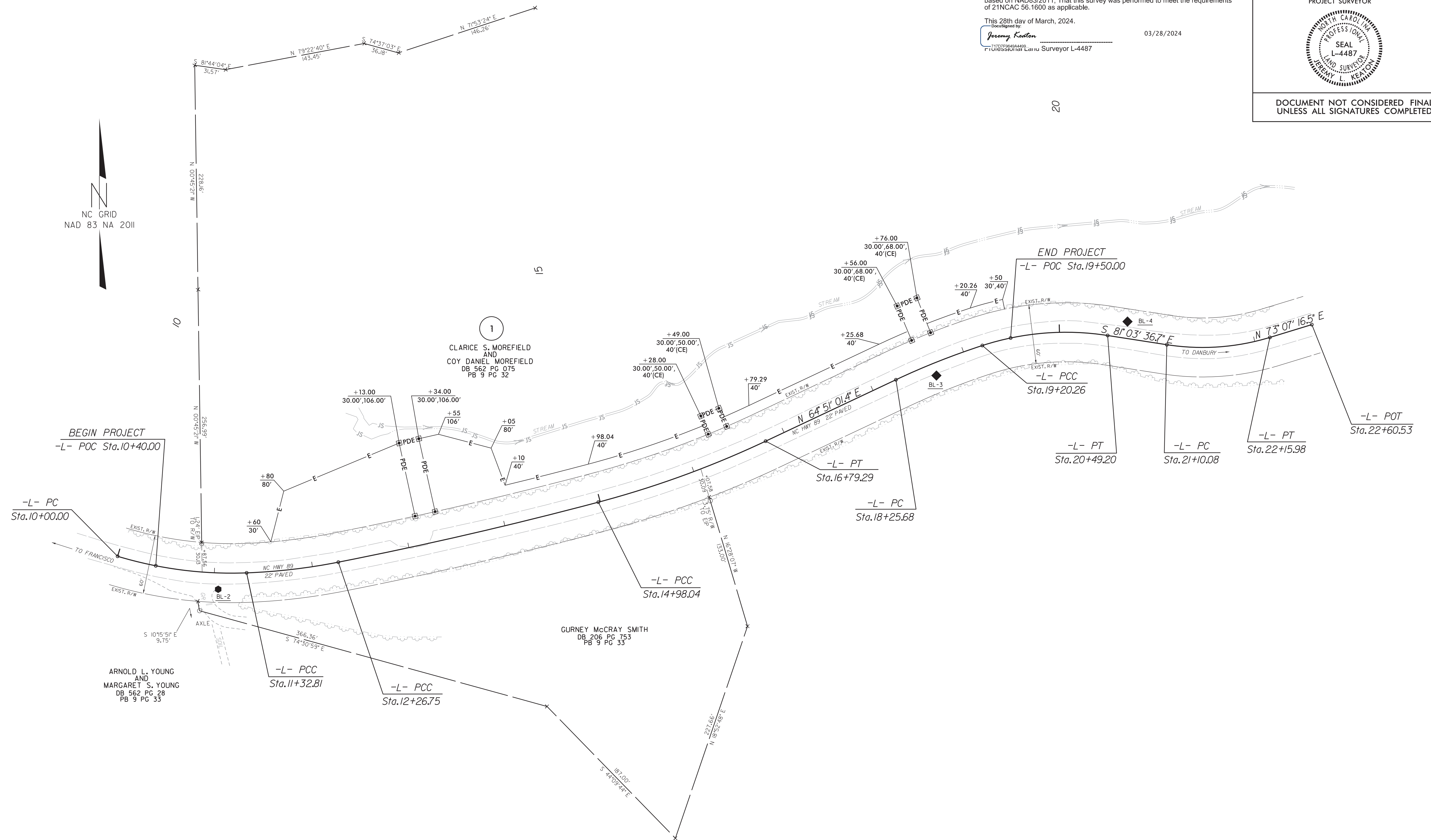
REVISIONS

28-MAR-2024 13:45
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 J.Keaton A:\D\18109-1085011

PROJECT REFERENCE NO.	SHEET NO.
18109.1085011	RW-4
DIVISION 9 DDC	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Jeremy L. Keaton, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed January 2024 to February 2024, and all coordinates are based on NAD83(2011). That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 28th day of March, 2024.
 Signed by: Jeremy Keaton 03/28/2024
 State of North Carolina Surveyor L-4487



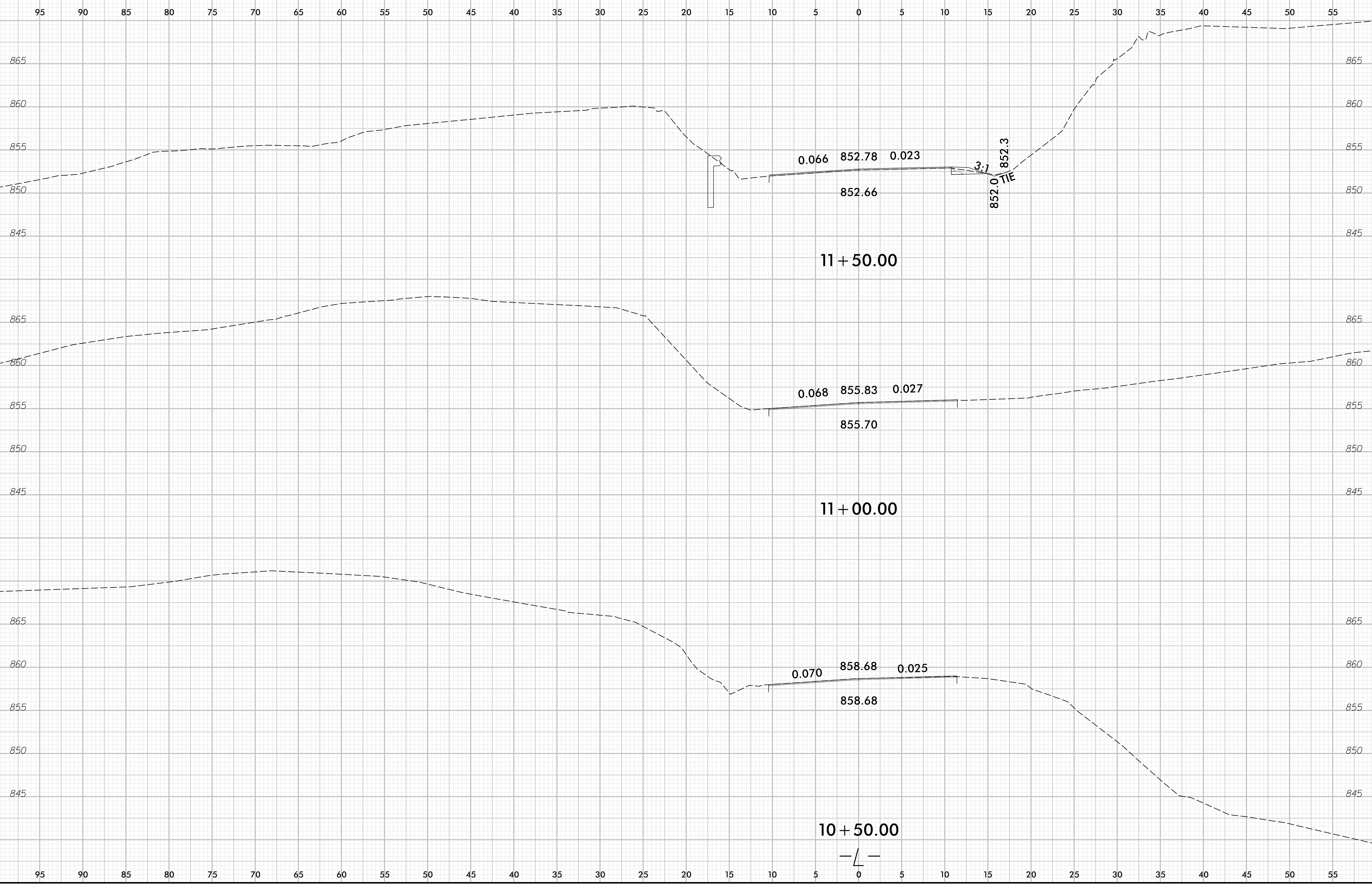
-L-						
PI Sta 10+67.02	PI Sta 11+79.88	PI Sta 13+62.45	PI Sta 15+88.92	PI Sta 18+73.03	PI Sta 19+85.93	PI Sta 21+63.95
$\Delta = 19^{\circ} 01' 24.6''$ (LT)	$\Delta = 8^{\circ} 58' 16.0''$ (LT)	$\Delta = 3^{\circ} 42' 03.2''$ (LT)	$\Delta = 10^{\circ} 23' 04.7''$ (LT)	$\Delta = 7^{\circ} 13' 29.2''$ (RT)	$\Delta = 26^{\circ} 51' 52.7''$ (RT)	$\Delta = 25^{\circ} 49' 06.9''$ (LT)
D = 14' 19' 26.2"	D = 9' 32' 57.5"	D = 1' 21' 51.1"	D = 5' 43' 46.5"	D = 7' 38' 22.0"	D = 20' 50' 05.4"	D = 24' 22' 52.3"
L = 132.81'	L = 93.95'	L = 271.29'	L = 181.25'	L = 94.57'	L = 128.94'	L = 105.90'
T = 67.02'	T = 47.07'	T = 135.69'	T = 90.87'	T = 47.35'	T = 65.68'	T = 53.86'
R = 400.00'	R = 600.00'	R = 4,200.00'	R = 1,000.00'	R = 750.00'	R = 275.00'	R = 235.00'

NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE DIVISION 9 DDC UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED JANUARY 2024 TO FEBRUARY 2024.
- SEE SHEET RW-2C FOR ALIGNMENT AND EASEMENT COORDINATES

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
■■■■■	NC 89	X-1

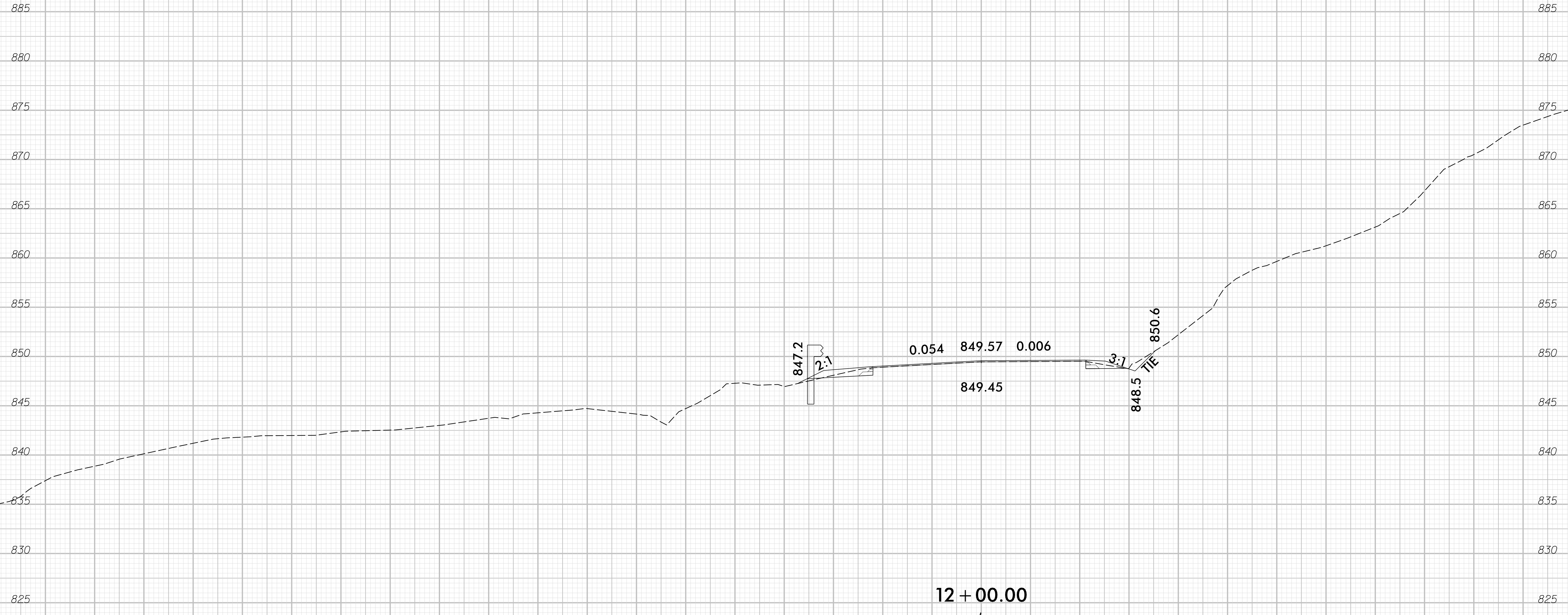


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6/23/16

0	2.5	5	PROJ. REFERENCE NO.	SHEET NO.
█	█	█	NC 89	X-2

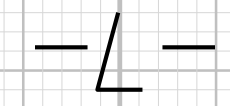
95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55



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95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55

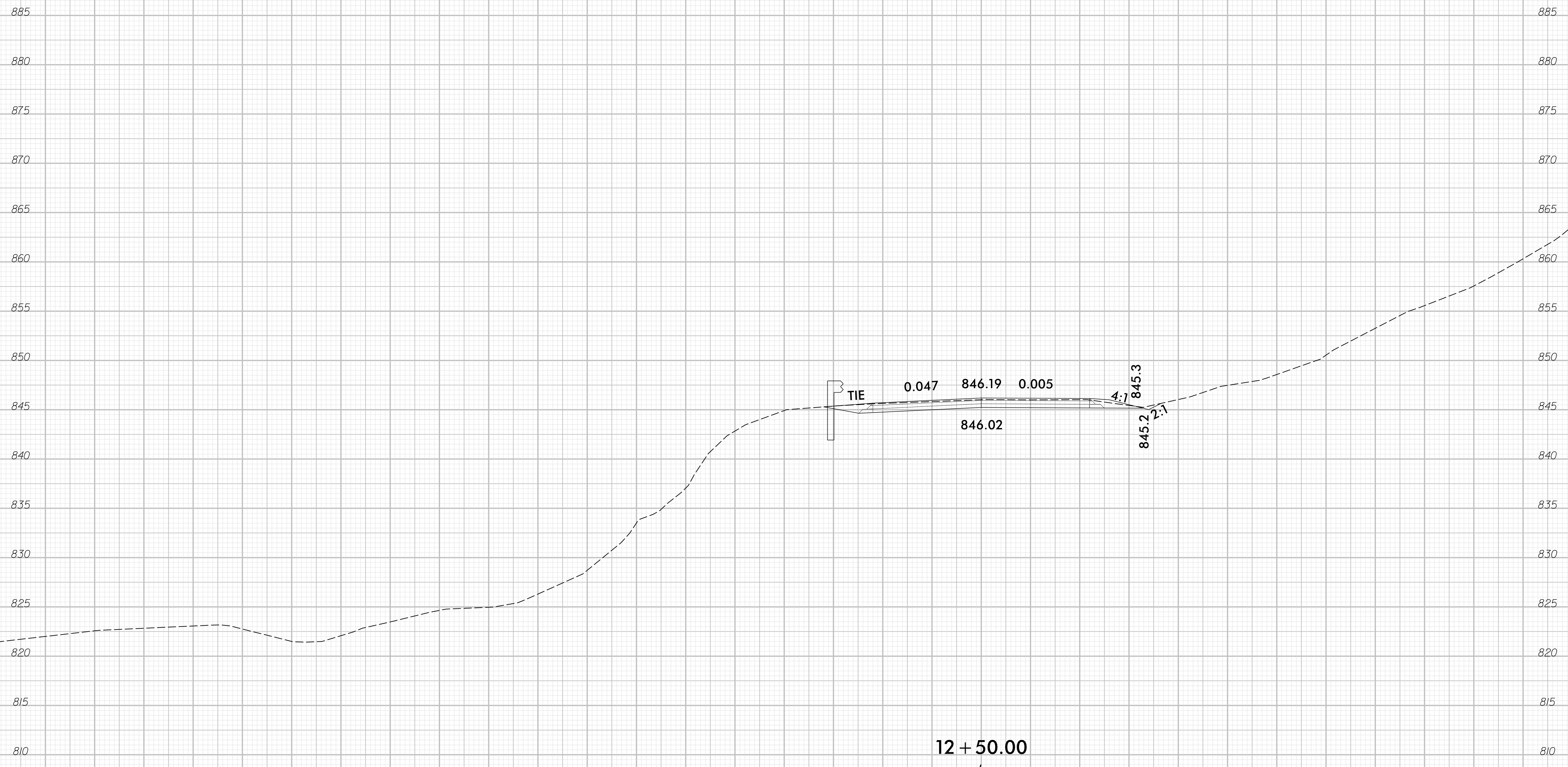
12 + 00.00



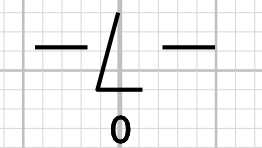
6/23/16

0	2.5	5	PROJ. REFERENCE NO.	SHEET NO.
█	█	█	NC 89	X-3

95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55



12 + 50.00



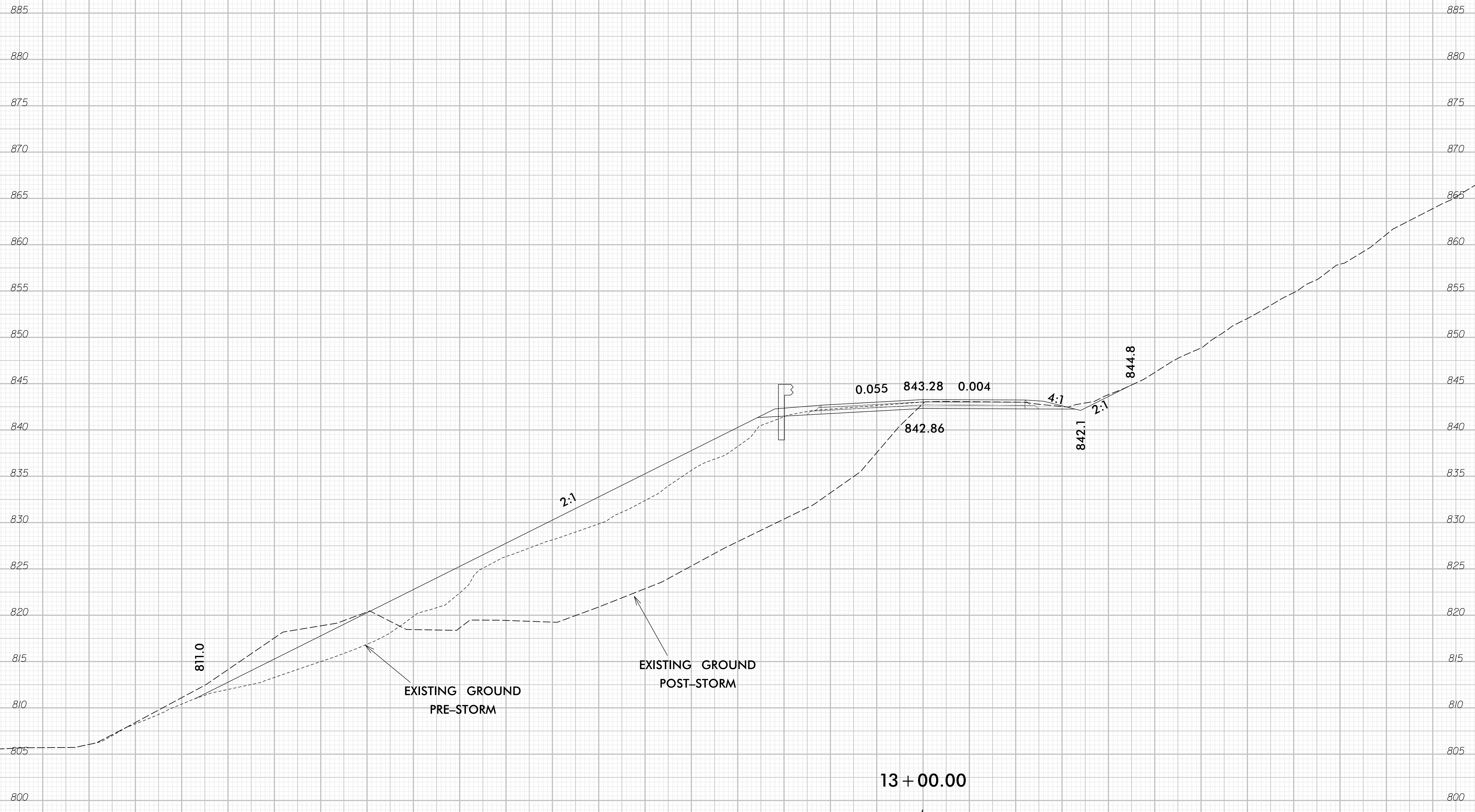
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 Jikeston

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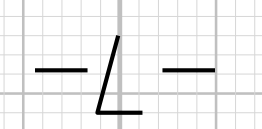
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█	█	█	NC 89	X-4

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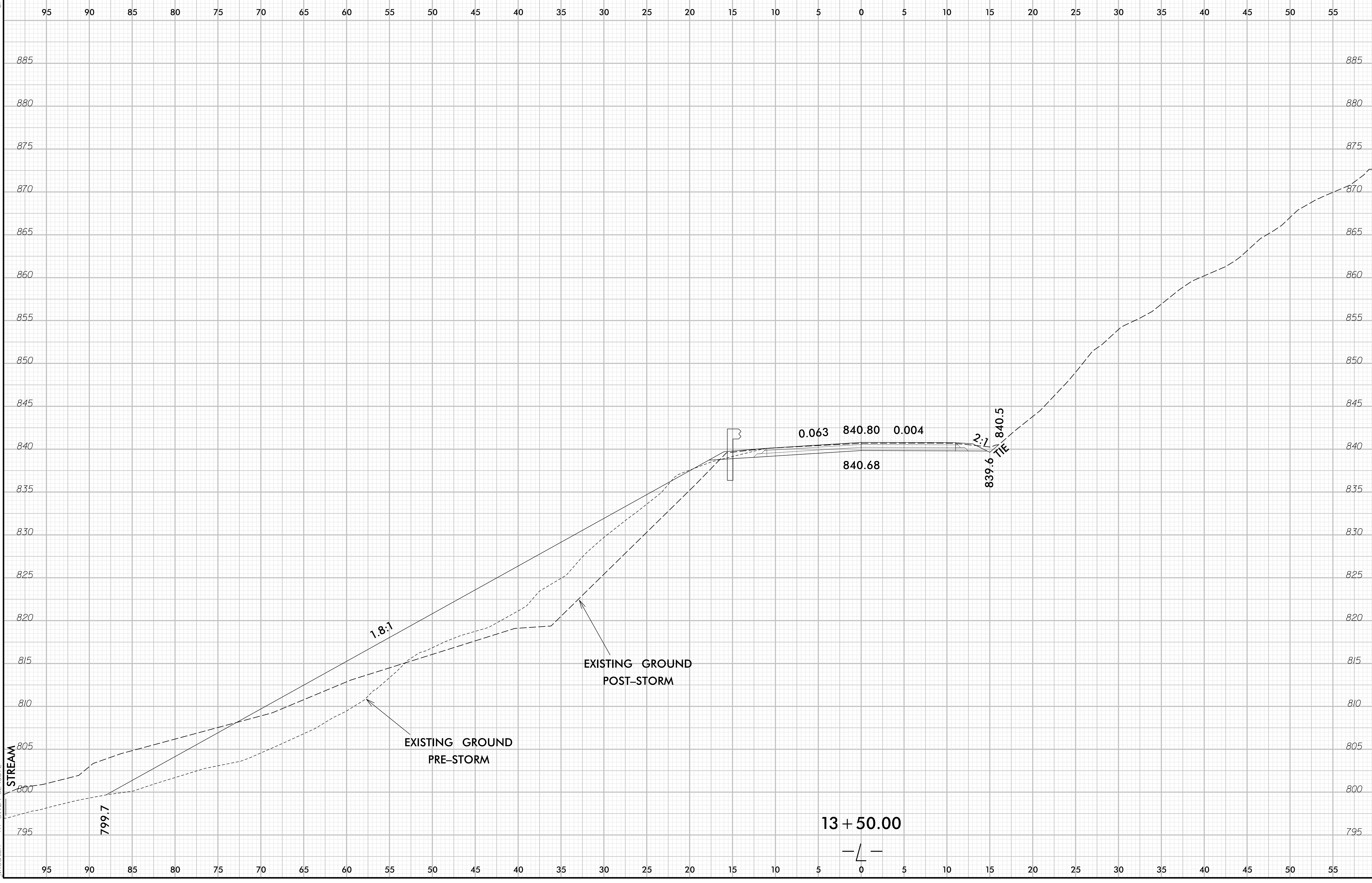
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 AT:DIV09-32887
 Jikeston

13 + 00.00



6/23/16

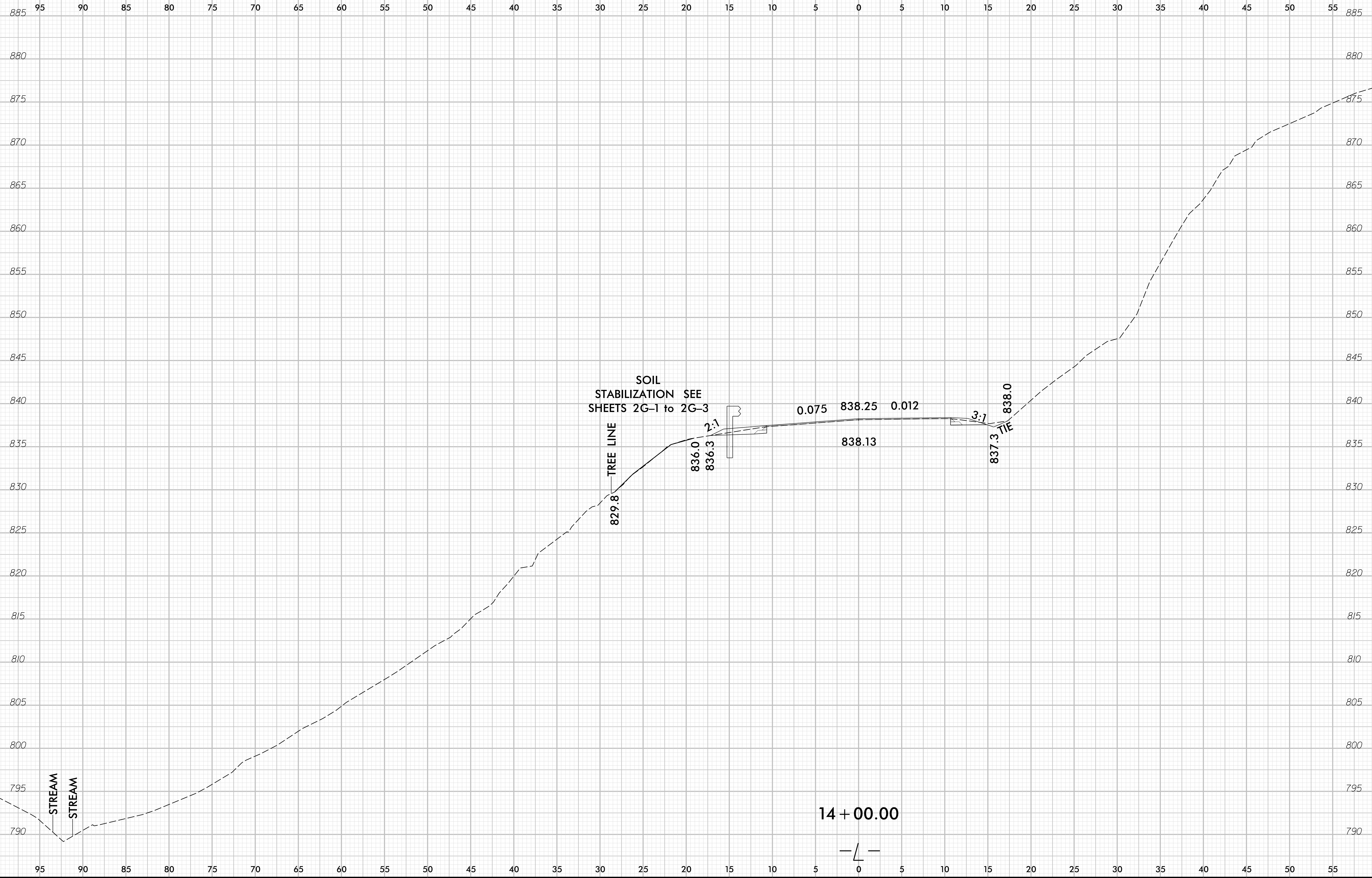
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█	█	█	NC 89	X-5



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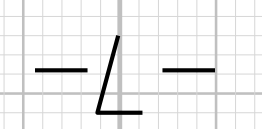
6/23/16

0	2.5	5	PROJ. REFERENCE NO.	SHEET NO.
█	█	█	NC 89	X-6



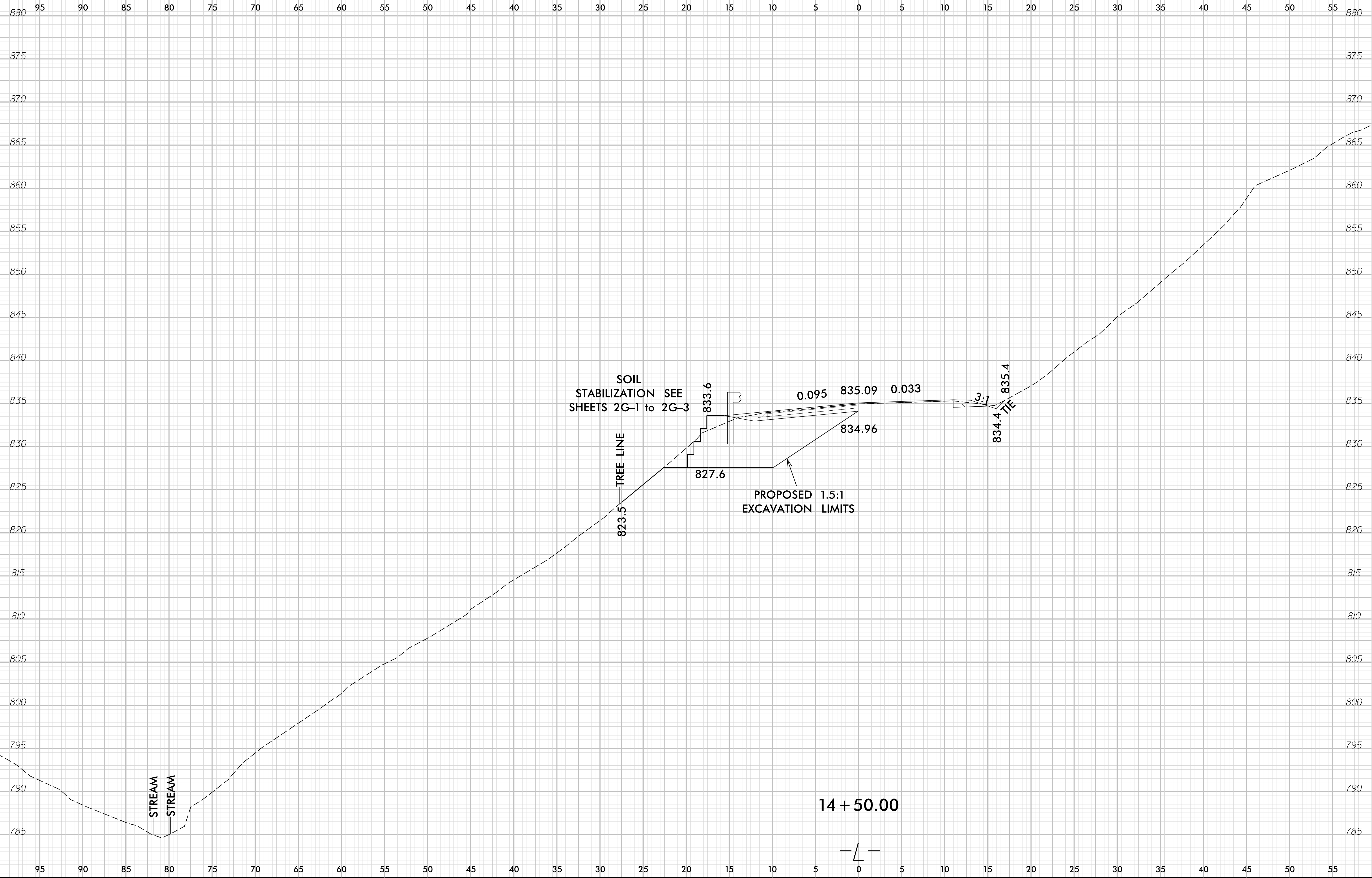
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14 + 00.00



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	NC 89	X-7



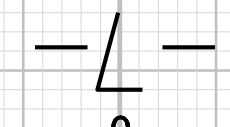
SOIL
STABILIZATION SEE
SHEETS 2G-1 to 2G-3

TREE LINE
823.5

PROPOSED 1.5:1
EXCAVATION LIMITS

3:1
TIE
834.4 835.4

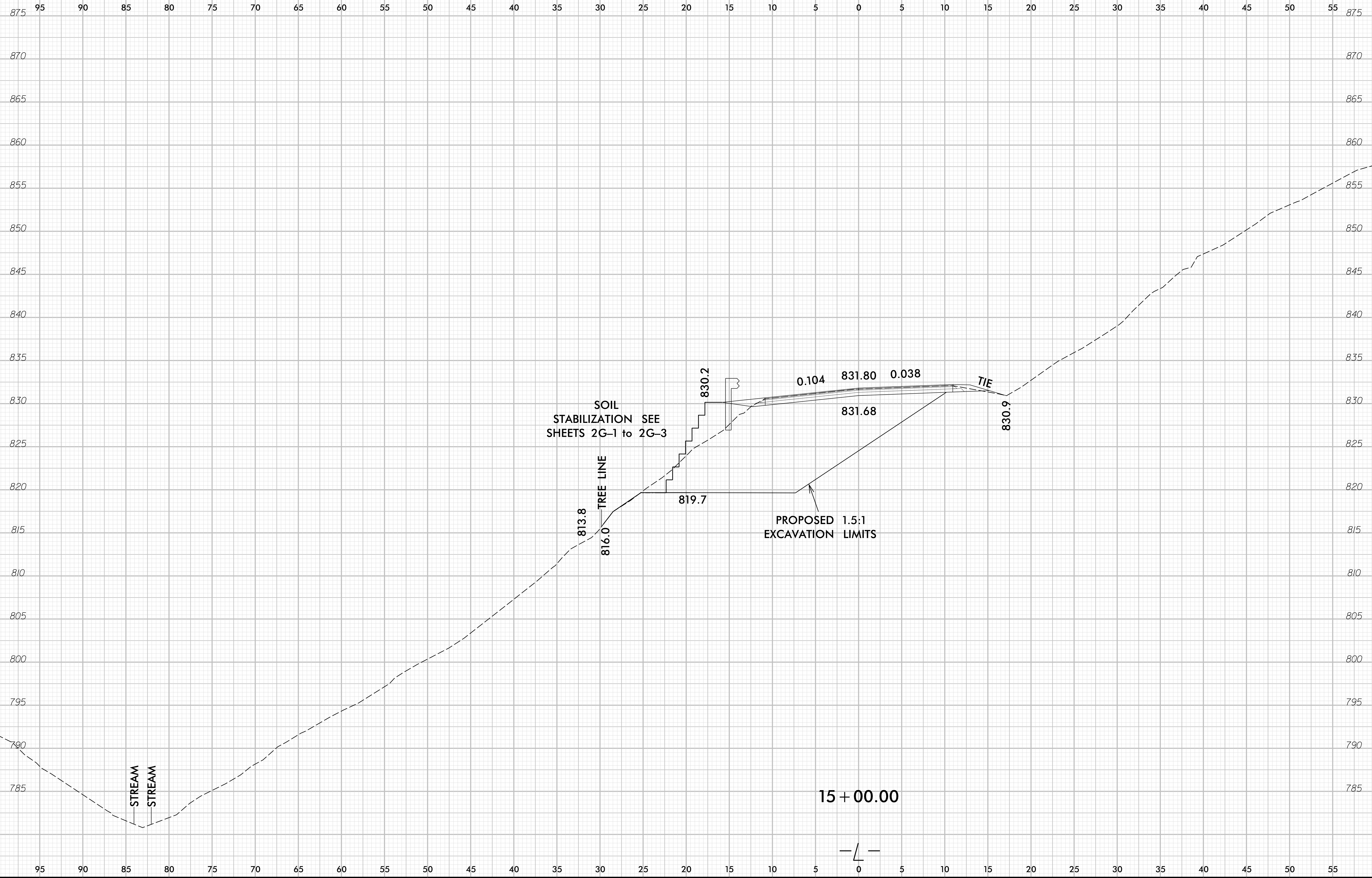
14 + 50.00



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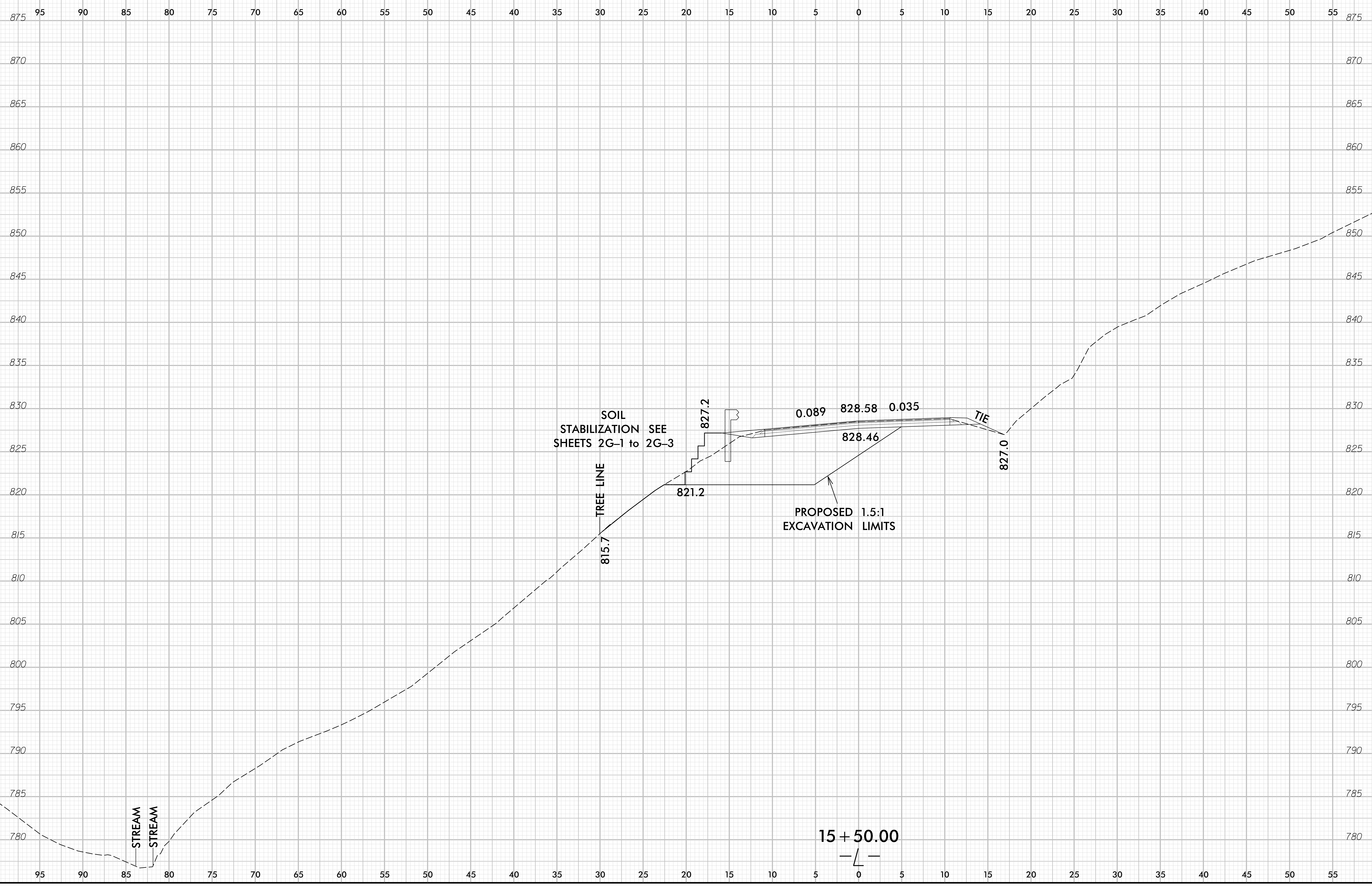
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	NC 89	X-8



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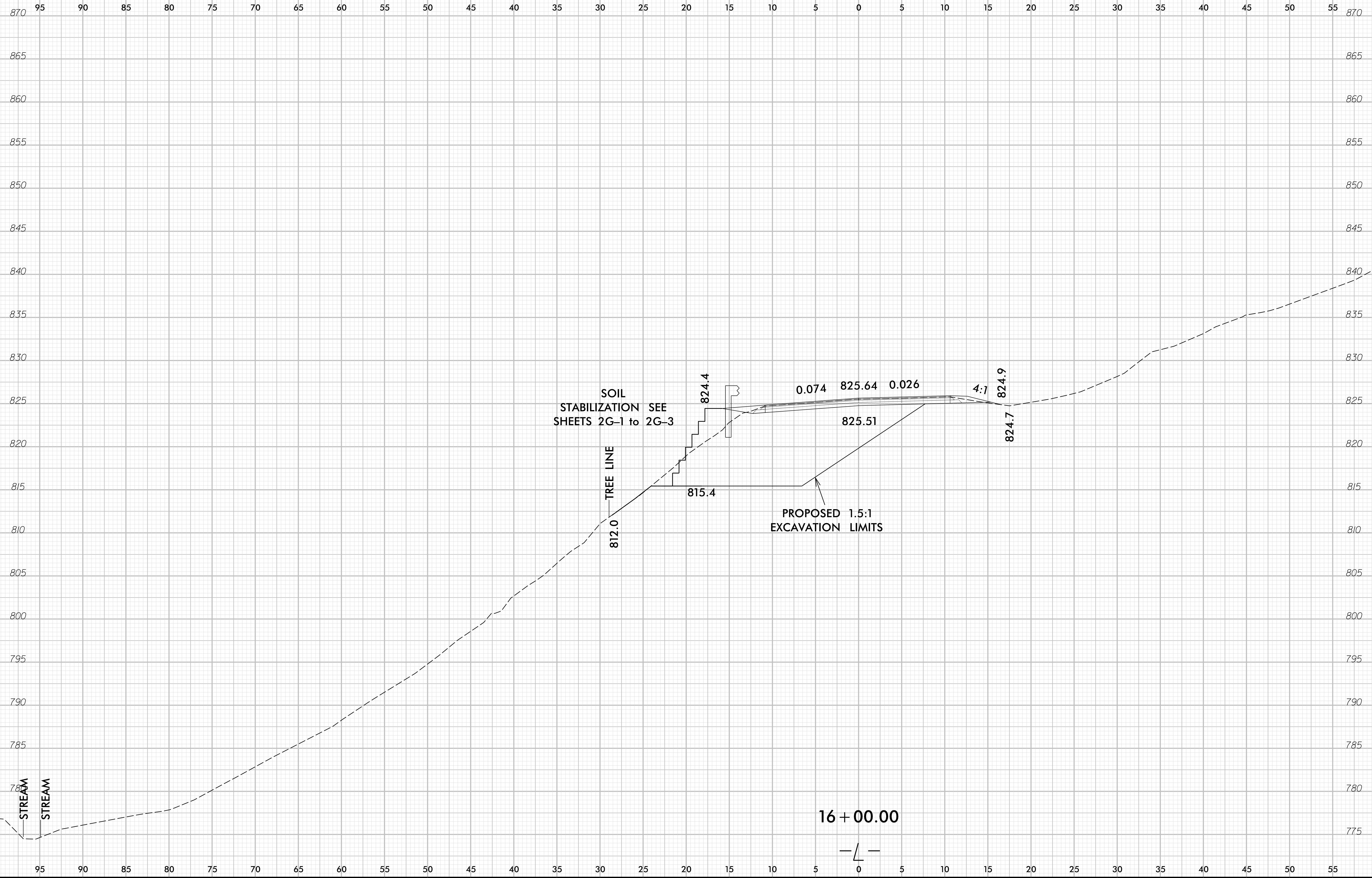
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█	█	█	NC 89	X-9



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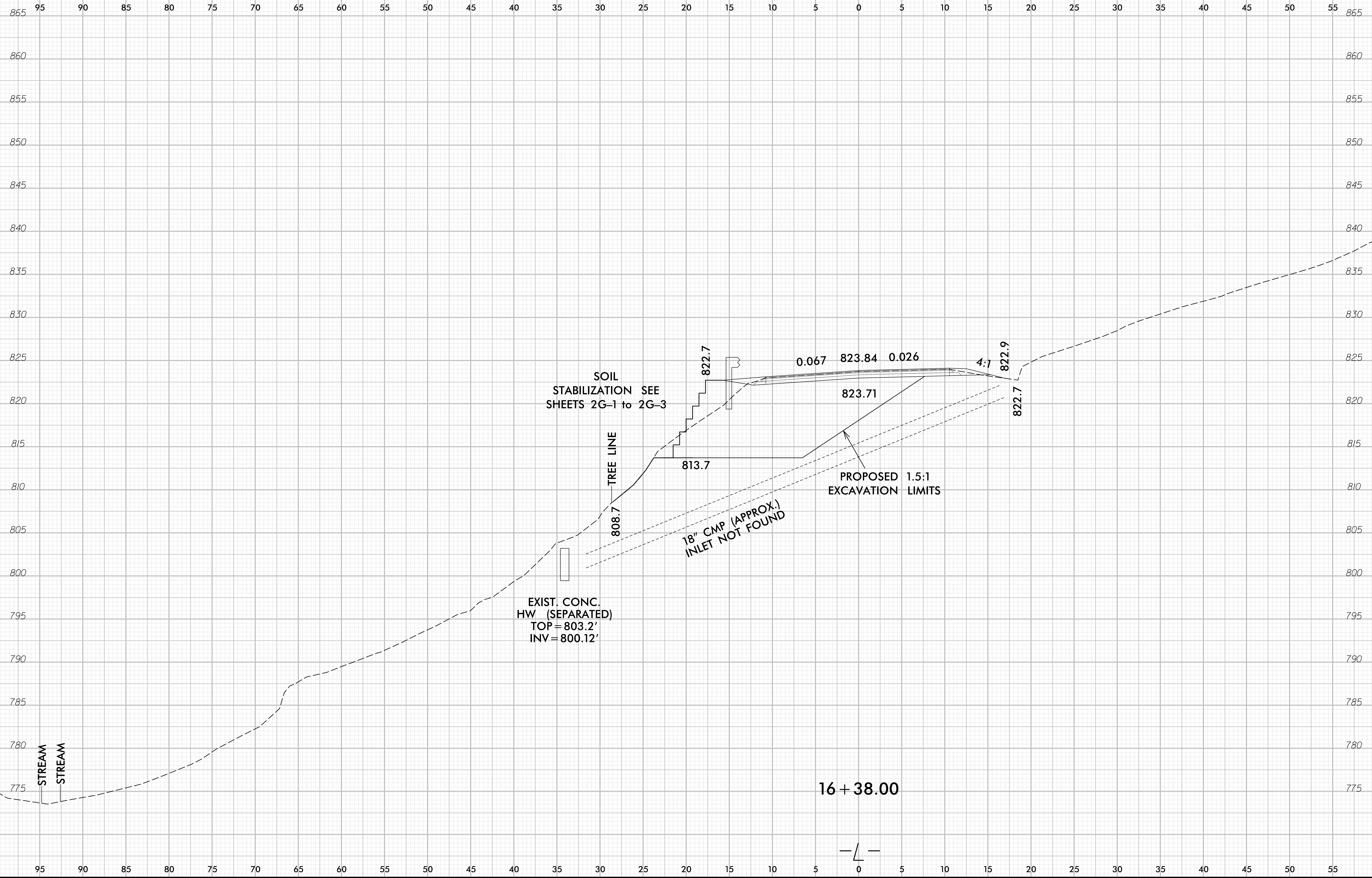
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█	█	█	NC 89	X-10



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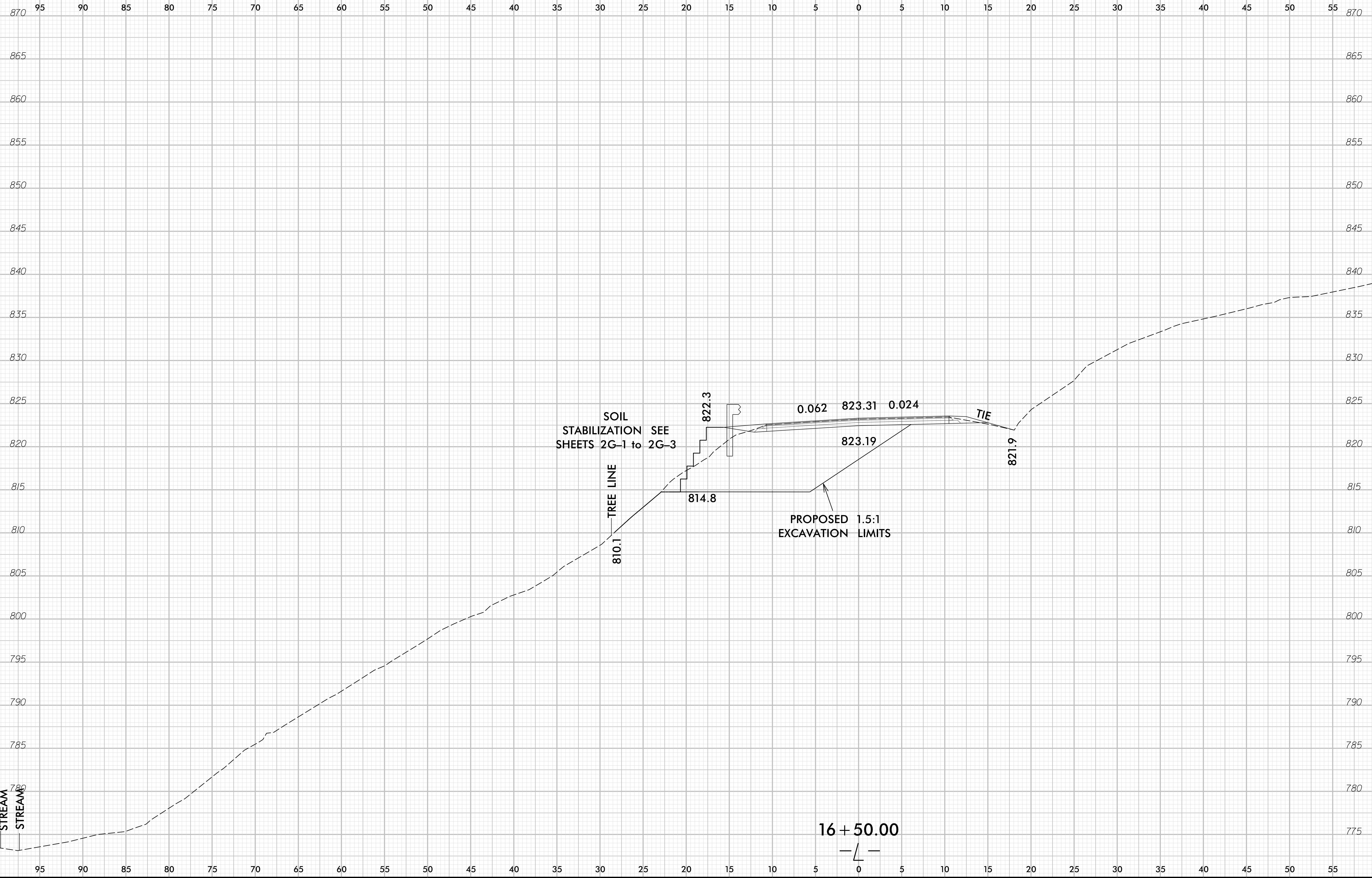
6/23/16

0	2.5	5	PROJ. REFERENCE NO.	SHEET NO.
█	█	█	NC 89	X-11



6/23/16

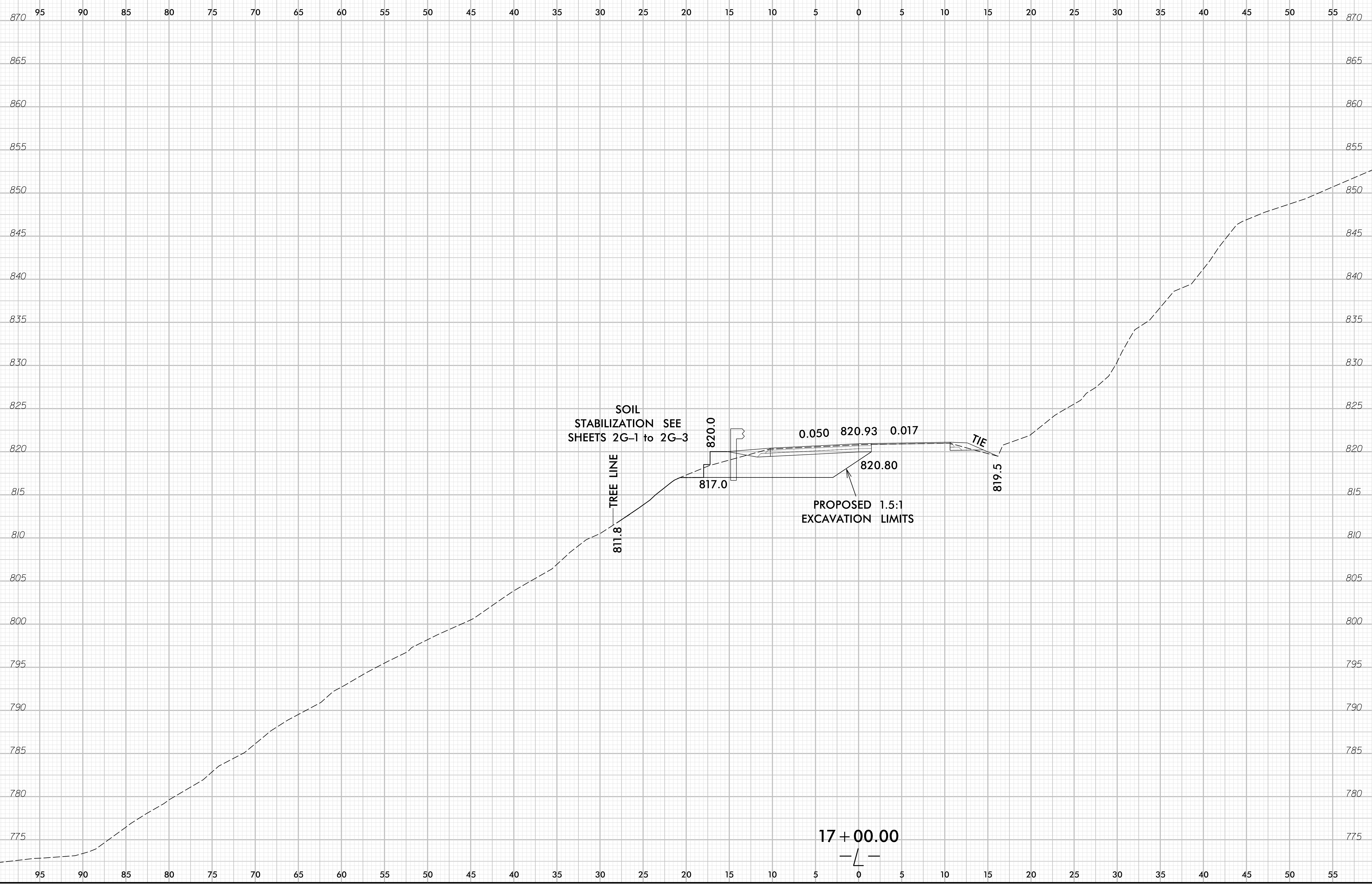
0	2.5	5	PROJ. REFERENCE NO.	SHEET NO.
█	█	█	NC 89	X-12



27-MAR-2024 14:17
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 AT: Div03-32887
 Jikeston

6/23/16

0	2.5	5	PROJ. REFERENCE NO.	SHEET NO.
█	█	█	NC 89	X-13



SOIL
STABILIZATION SEE
SHEETS 2G-1 to 2G-3

TREE LINE
811.8

820.0
817.0

0.050 820.93 0.017

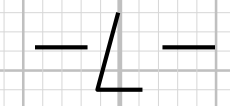
820.80

PROPOSED 1.5:1
EXCAVATION LIMITS

TIE

819.5

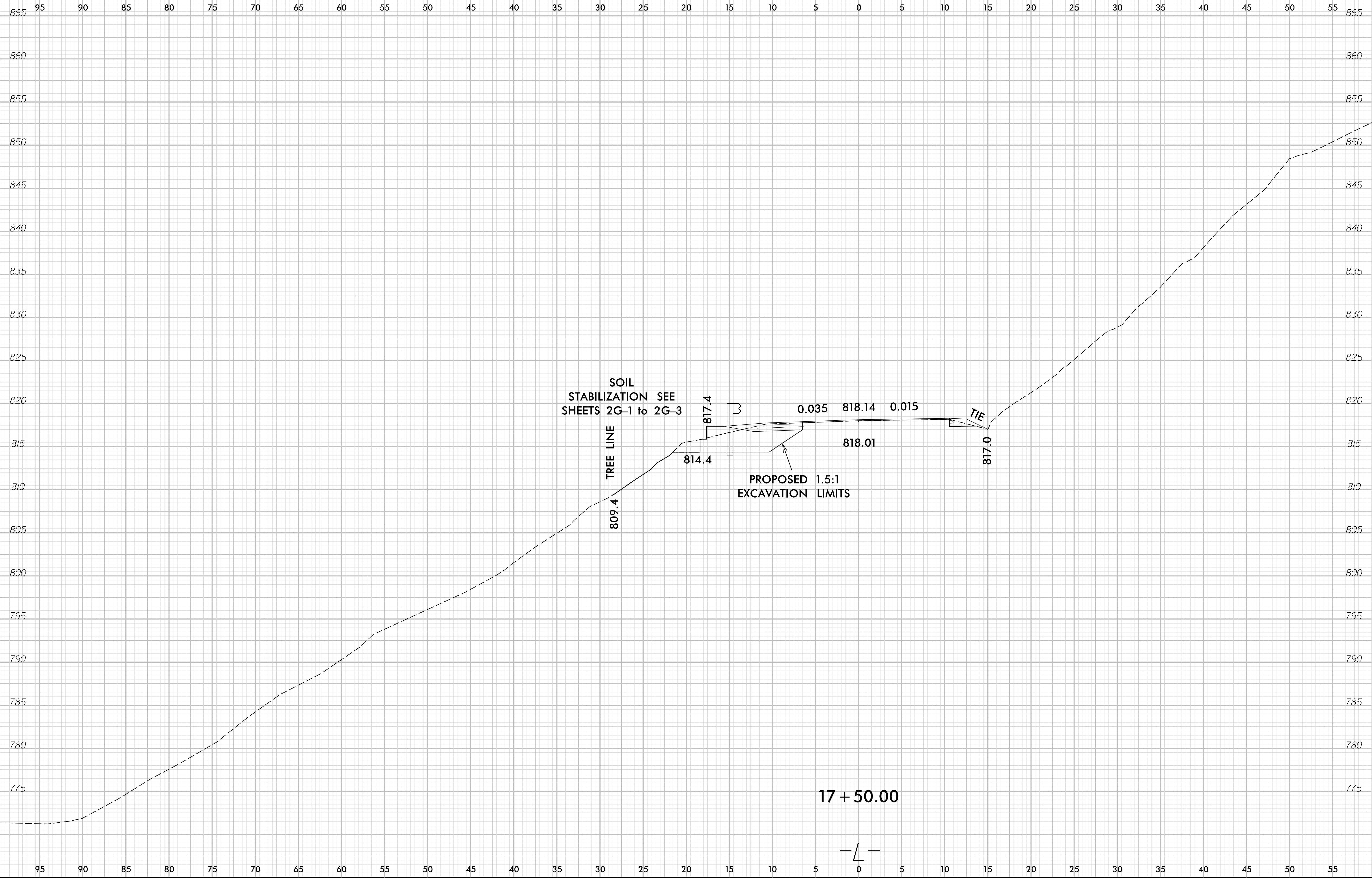
17 + 00.00



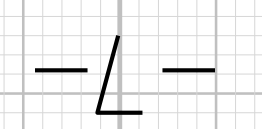
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6/23/16

0	2.5	5	PROJ. REFERENCE NO.	SHEET NO.
█	█	█	NC 89	X-14

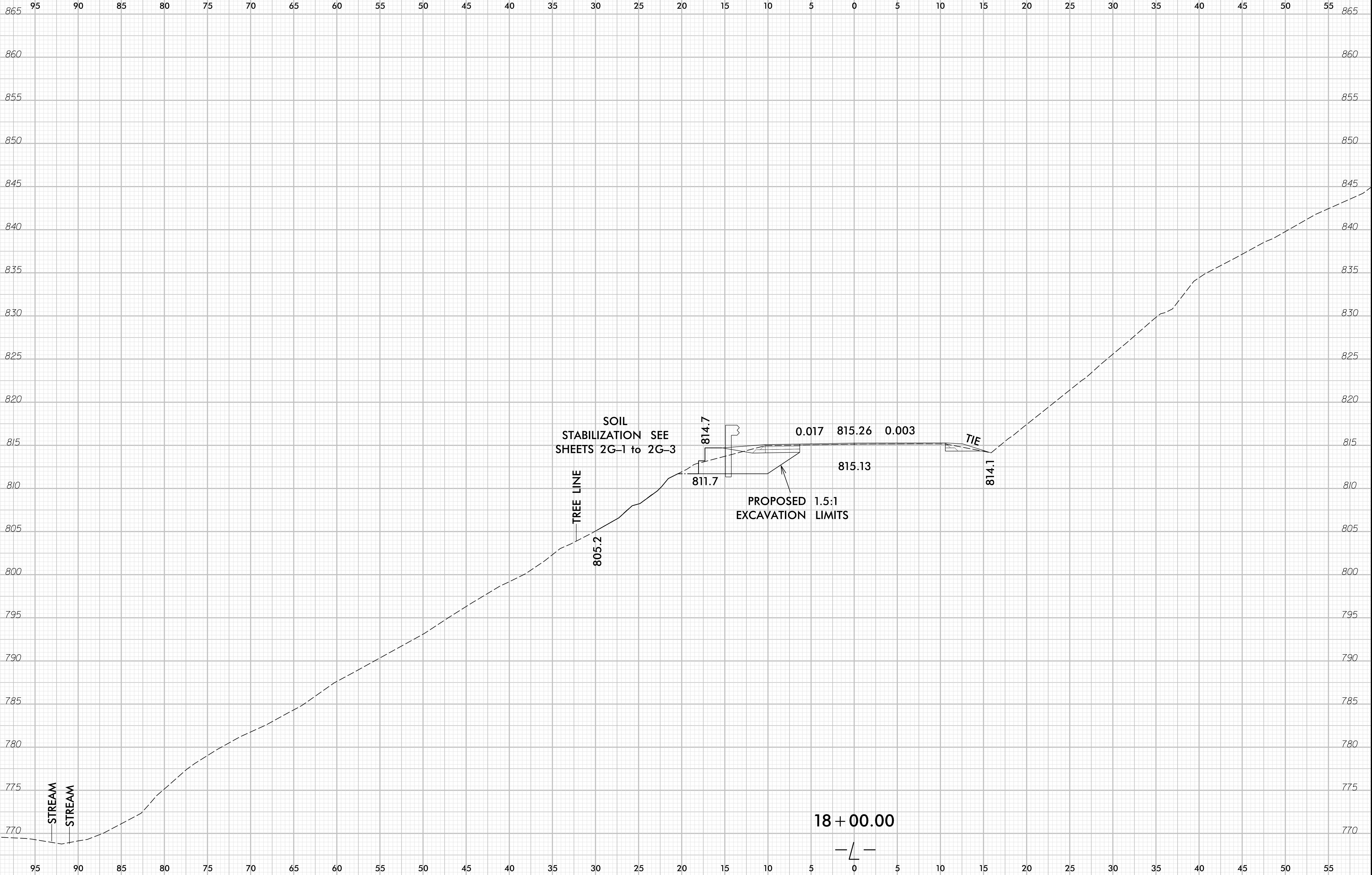


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AT: Div03-32887
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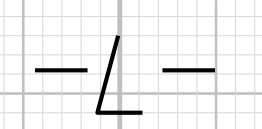
6/23/16

0	2.5	5	PROJ. REFERENCE NO.	SHEET NO.
█	█	█	NC 89	X-15



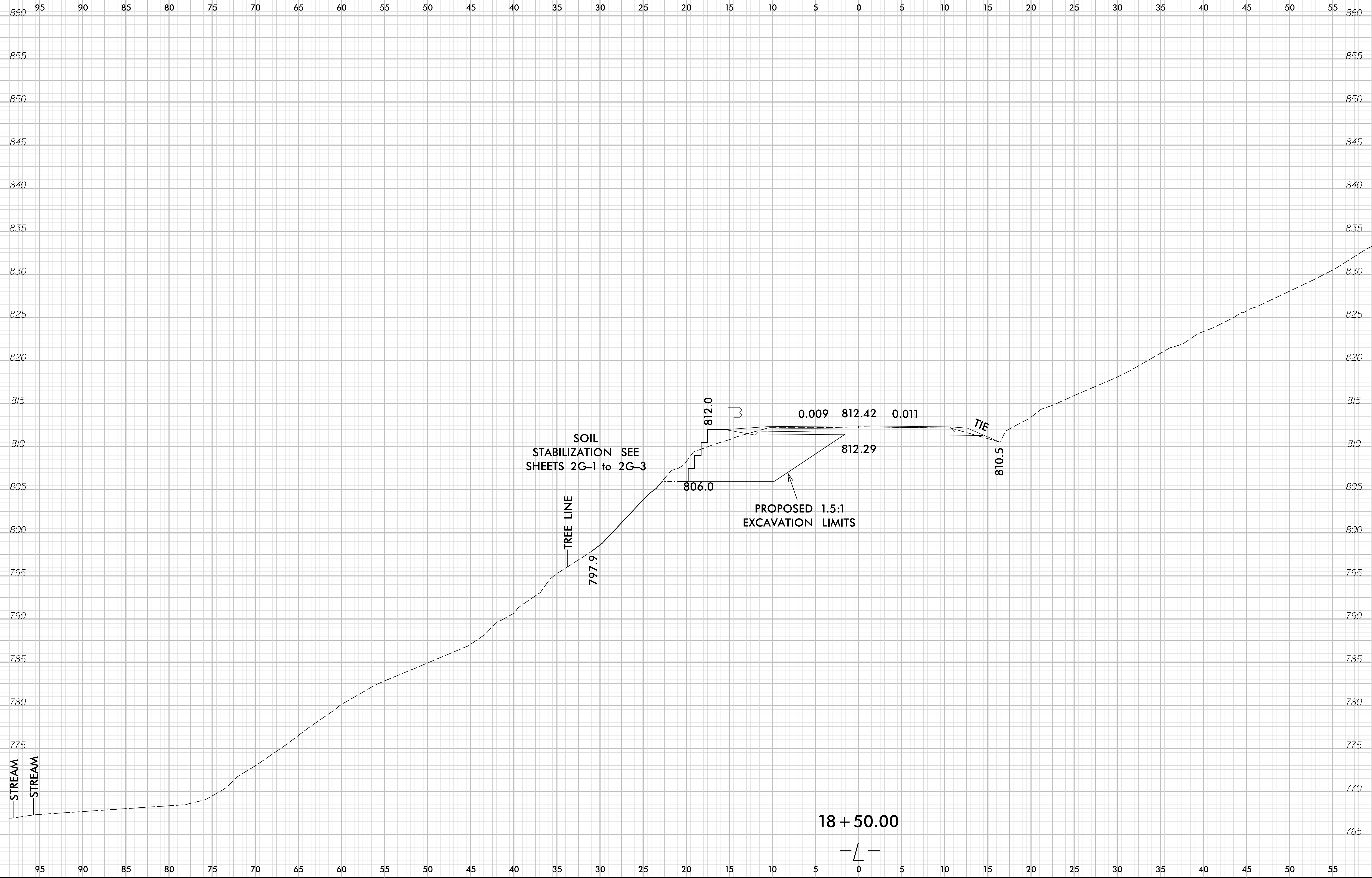
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18 + 00.00



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	NC 89	X-16



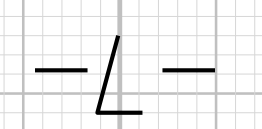
SOIL
STABILIZATION SEE
SHEETS 2G-1 to 2G-3

TREE LINE

PROPOSED 1.5:1
EXCAVATION LIMITS

TIE

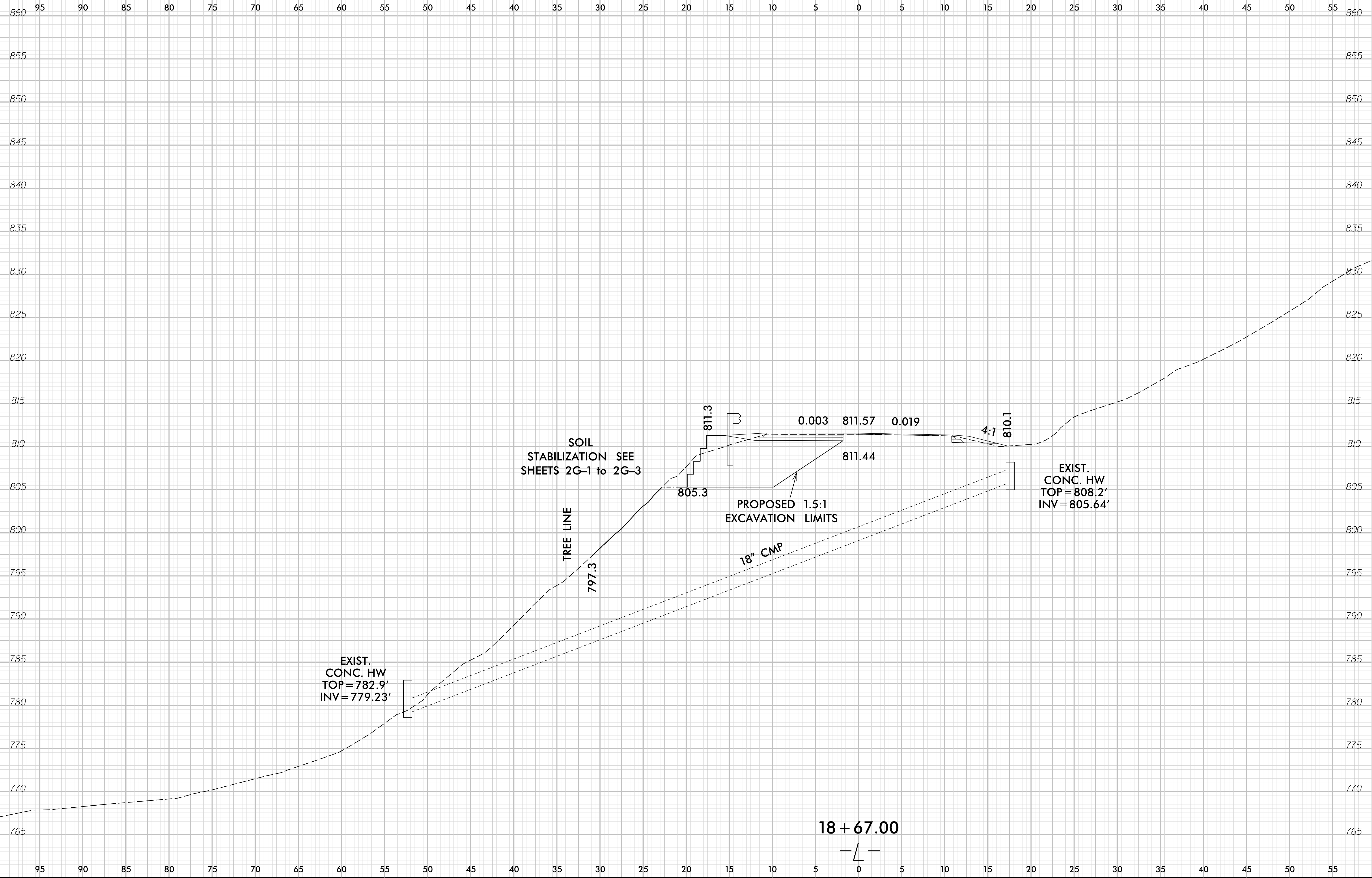
18 + 50.00



27-MAR-2024 14:17
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6/23/16

0	2.5	5	PROJ. REFERENCE NO.	SHEET NO.
█	█	█	NC 89	X-17

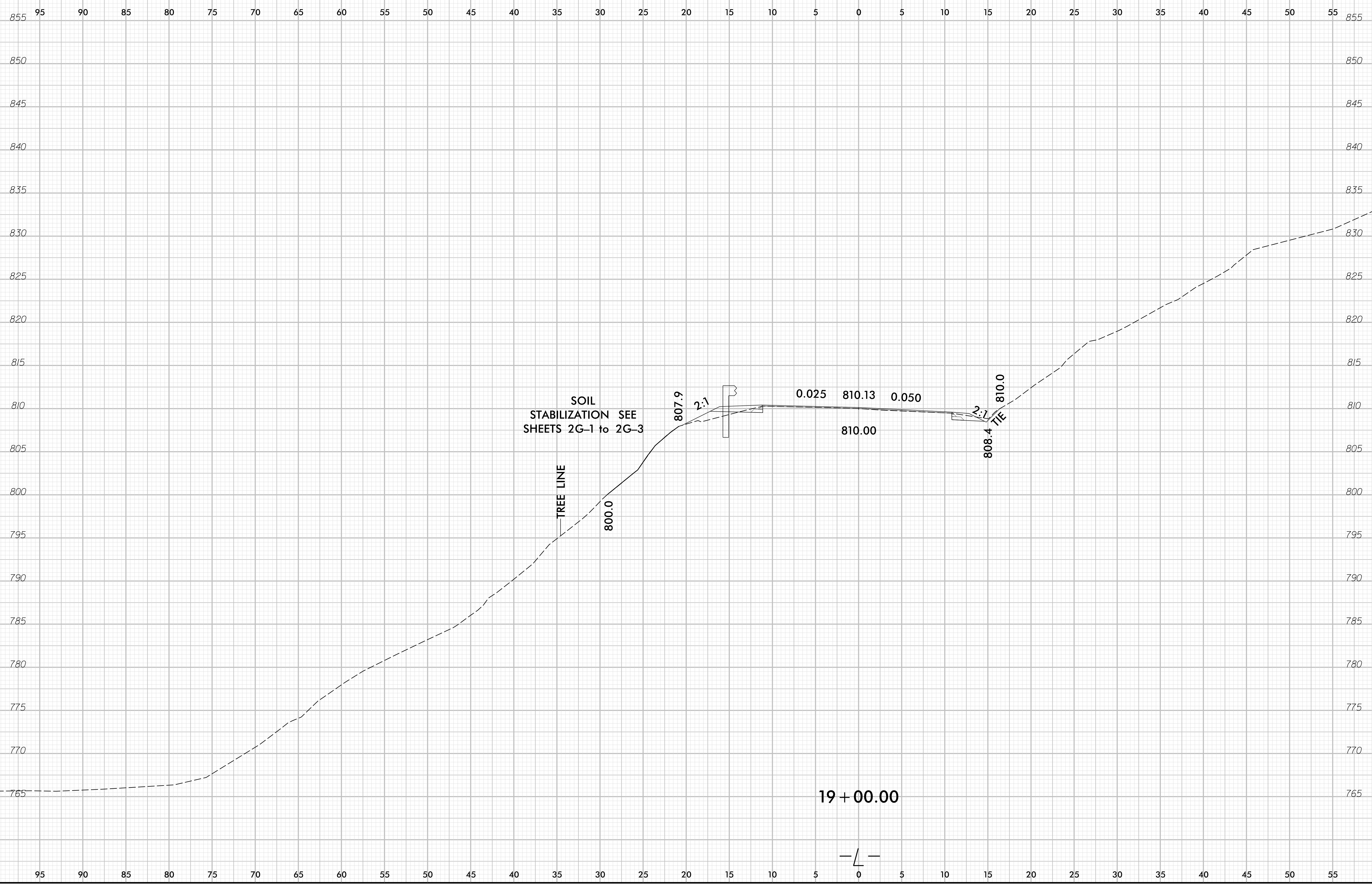


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18+67.00
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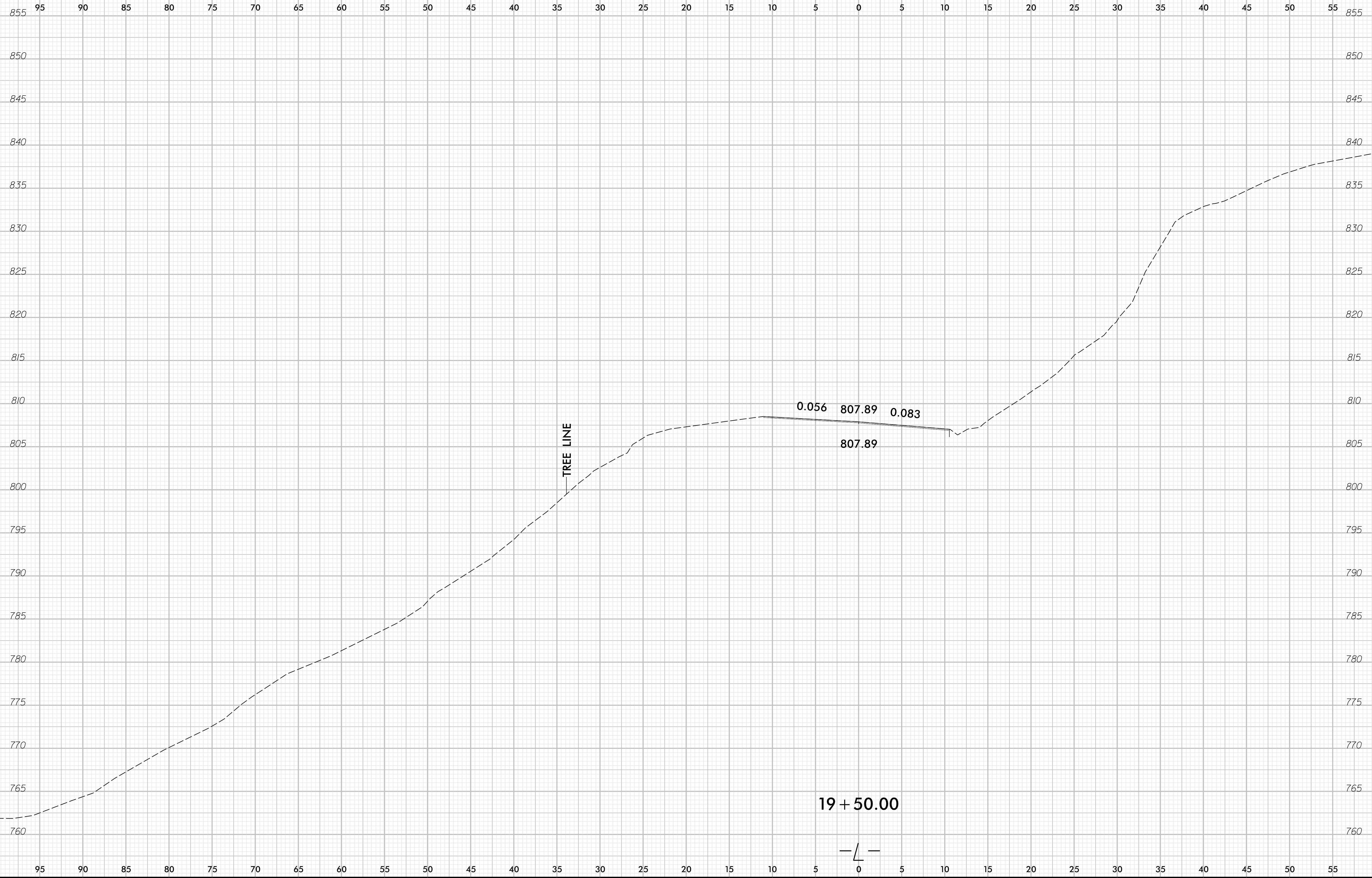
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█	█	█	NC 89	X-18



27-MAR-2024 14:17
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0	2.5	5	PROJ. REFERENCE NO.	SHEET NO.
█	█	█	NC 89	X-19



27-MAR-2024 14:17
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