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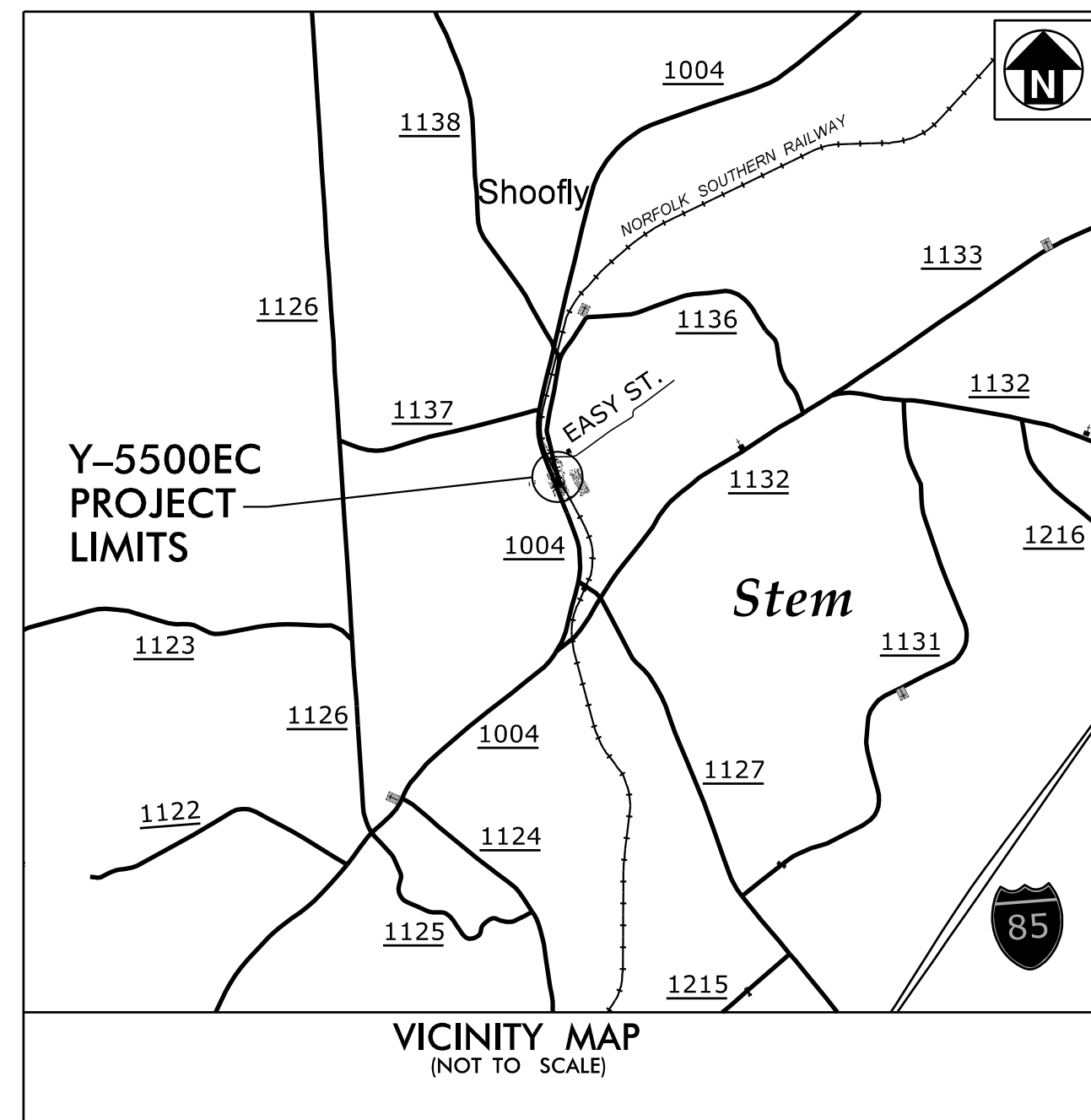
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CONTRACT: TIP PROJECT: Y-5500EC

CONTRACT: TIP PROJECT: Y-5500EC

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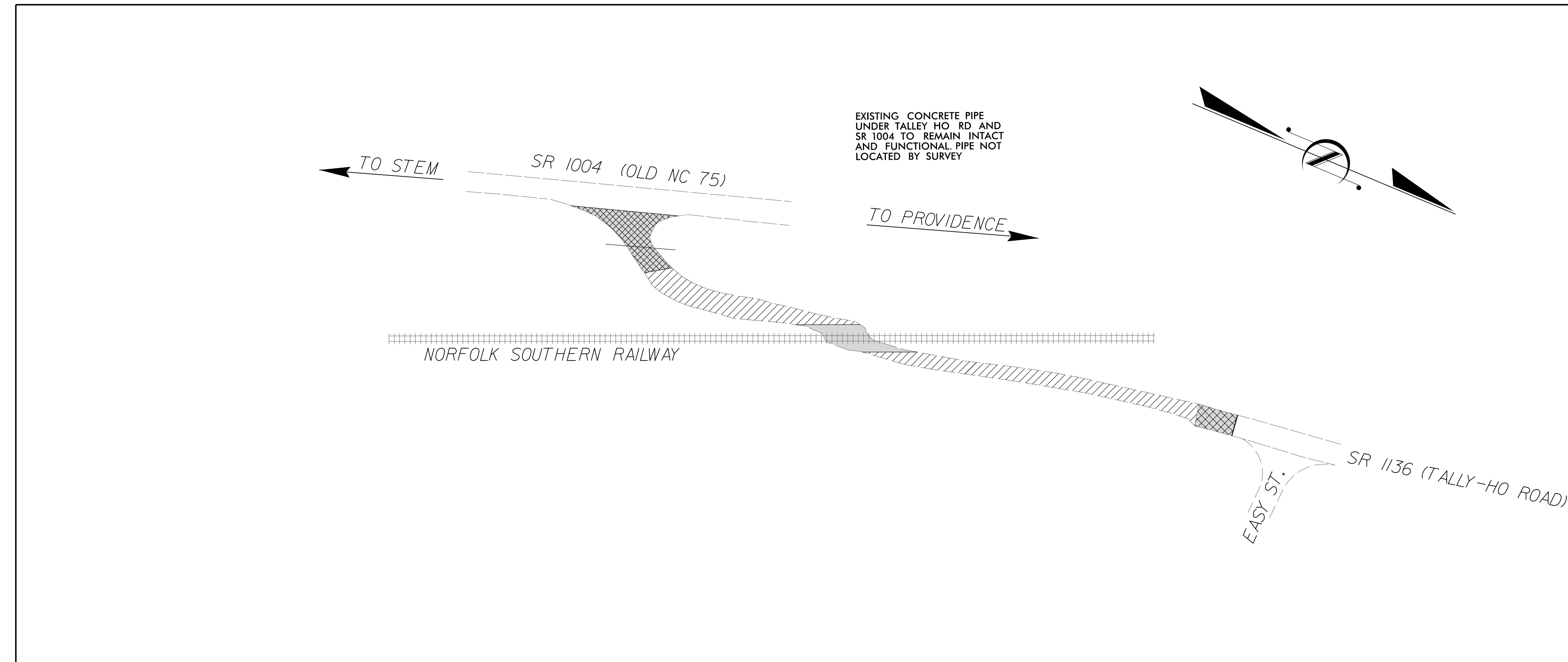
STATE OF NORTH CAROLINA
RAIL DIVISION

GRANVILLE COUNTY

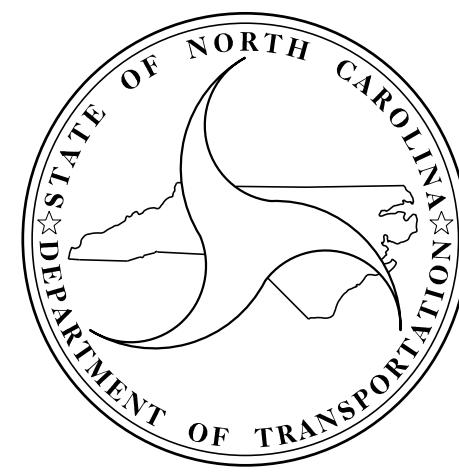
LOCATION: SR 1136 (TALLY-HO ROAD) FROM SR 1004 (OLD NC 75) TO EASY STREET

TYPE OF WORK: PAVEMENT REMOVAL, GRADING, DRAINAGE, PAVEMENT MARKINGS AND SIGNAGE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	Y-5500EC	1	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45533.1.21	0523008	PE	
4556633.21	0523008	CONST	



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



DESIGN DATA

ADT 2005 = 3,579
ADT N/A = N/A
V = 55 MPH
FUNC CLASS = N/A

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT = 0.118 MILES
LENGTH STRUCTURE TIP PROJECT = 0.000 MILES
TOTAL LENGTH TIP PROJECT = 0.118 MILES

Prepared in the Office of Matt MacDonald for

RAIL DIVISION

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2018 STANDARD SPECIFICATIONS

LETTING DATE:

November 9, 2022

TIM JORDAN, PE
PROJECT ENGINEER

NCDOT CONTACT:

BRIAN GACKSTETTER, EI
SENIOR PROJECT ENGINEER

ROADWAY DESIGN ENGINEER

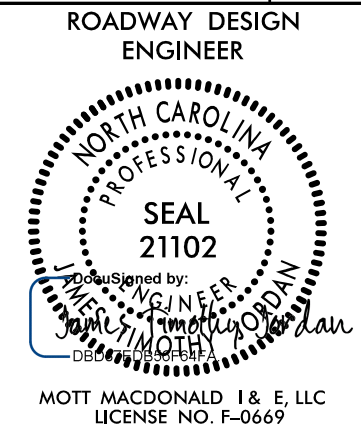

DocuSigned by:
James Timothy Jordan
SIGNATURE



PLANS PREPARED BY:

M M
MOTT MACDONALD
7621 Purfoy Road, Suite 115
Fuquay-Varina, NC 27526
(919) 552-2253
(919) 552-2254 (Fax)
www.mottmac.com

LICENSE NO. F-0669

PROJECT REFERENCE	SHEET NO.
Y-5500EC	1A
ROADWAY DESIGN ENGINEER  SEAL 21102 MOTT MACDONALD 1 & E, LLC LICENSE NO. 7-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 MOTT MACDONALD 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmcc.com

GENERAL NOTES

GENERAL NOTES: 2018 SPECIFICATIONS EFFECTIVE: 01-16-18

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.

LIST OF ROADWAY STANDARD DRAWINGS

EFF. 01-16-2018

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch – N. C. Department of Transportation – Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 8 – INCIDENTALS	
862.01	Guardrail Placement
862.02	Guardrail Installation

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
3B-1	EARTHWORK SUMMARY
4	PLAN SHEET
TMP-1 THRU TMP-2	TRAFFIC MANAGEMENT PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----x
Property Monument	□ ECM
Parcel/Sequence Number	⑩②③
Existing Fence Line	-x-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-☠
Potential Contamination Area: Soil	☠-s-☠
Known Contamination Area: Water	☠-w-☠
Potential Contamination Area: Water	☠-w-☠
Contaminated Site: Known or Potential	☠?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
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	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Exist Permanent Easment Pin and Cap	◇
New Permanent Easment Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	○ R/W
New Right of Way Line with Concrete or Granite R/W Marker	○ R/W
New Control of Access Line with Concrete CA Marker	○ CA
Existing Control of Access	○ CA
New Control of Access	○ CA
Existing Easement Line	---E---
New Temporary Construction Easement	---E---
New Temporary Drainage Easement	---TDE---
New Permanent Drainage Easement	---PDE---
New Permanent Drainage / Utility Easement	---DUE---
New Permanent Utility Easement	---PUE---
New Temporary Utility Easement	---TUE---
New 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	---T---
Proposed Cable Guiderail	---T---
Equality Symbol	⊕
Pavement Removal	⊠

VEGETATION:

Single Tree	☀
Single Shrub	☁

Note: Not to Scale *S.U.E. = *Subsurface Utility Engineering*

Hedge	~~~~~
Woods Line	~~~~~
Orchard	☀ ☀ ☀ ☀
Vineyard	□ 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	○ S
Storm Sewer	---S---

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○ P
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	○
H-Frame Pole	●
U/G Power Line LOS B (S.U.E.*)	---P---
U/G Power Line LOS C (S.U.E.*)	---P---
U/G Power Line LOS D (S.U.E.*)	---P---

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○ T
Telephone Pedestal	□ T
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	○
U/G Telephone Cable LOS B (S.U.E.*)	---T---
U/G Telephone Cable LOS C (S.U.E.*)	---T---
U/G Telephone Cable LOS D (S.U.E.*)	---T---
U/G Telephone Conduit LOS B (S.U.E.*)	---TC---
U/G Telephone Conduit LOS C (S.U.E.*)	---TC---
U/G Telephone Conduit LOS D (S.U.E.*)	---TC---
U/G Fiber Optics Cable LOS B (S.U.E.*)	---TFO---
U/G Fiber Optics Cable LOS C (S.U.E.*)	---TFO---
U/G Fiber Optics Cable LOS D (S.U.E.*)	---TFO---

WATER:

Water Manhole	○ W
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	---W---
U/G Water Line LOS C (S.U.E.*)	---W---
U/G Water Line LOS D (S.U.E.*)	---W---
Above Ground Water Line	---A/G Water---

TV:

TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	○
U/G TV Cable LOS B (S.U.E.*)	---TV---
U/G TV Cable LOS C (S.U.E.*)	---TV---
U/G TV Cable LOS D (S.U.E.*)	---TV---
U/G Fiber Optic Cable LOS B (S.U.E.*)	---TV FO---
U/G Fiber Optic Cable LOS C (S.U.E.*)	---TV FO---
U/G Fiber Optic Cable LOS D (S.U.E.*)	---TV FO---

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	---G---
U/G Gas Line LOS C (S.U.E.*)	---G---
U/G Gas Line LOS D (S.U.E.*)	---G---
Above Ground Gas Line	---A/G Gas---

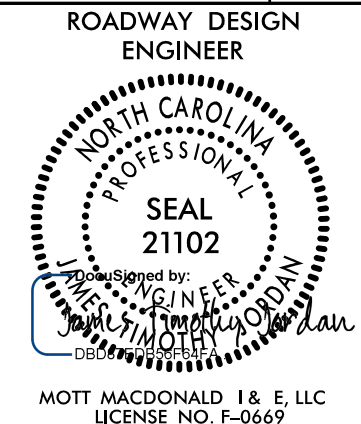


SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	---SS---
Above Ground Sanitary Sewer	---A/G Sanitary Sewer---
SS Forced Main Line LOS B (S.U.E.*)	---FSS---
SS Forced Main Line LOS C (S.U.E.*)	---FSS---
SS Forced Main Line LOS D (S.U.E.*)	---FSS---

MISCELLANEOUS:

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

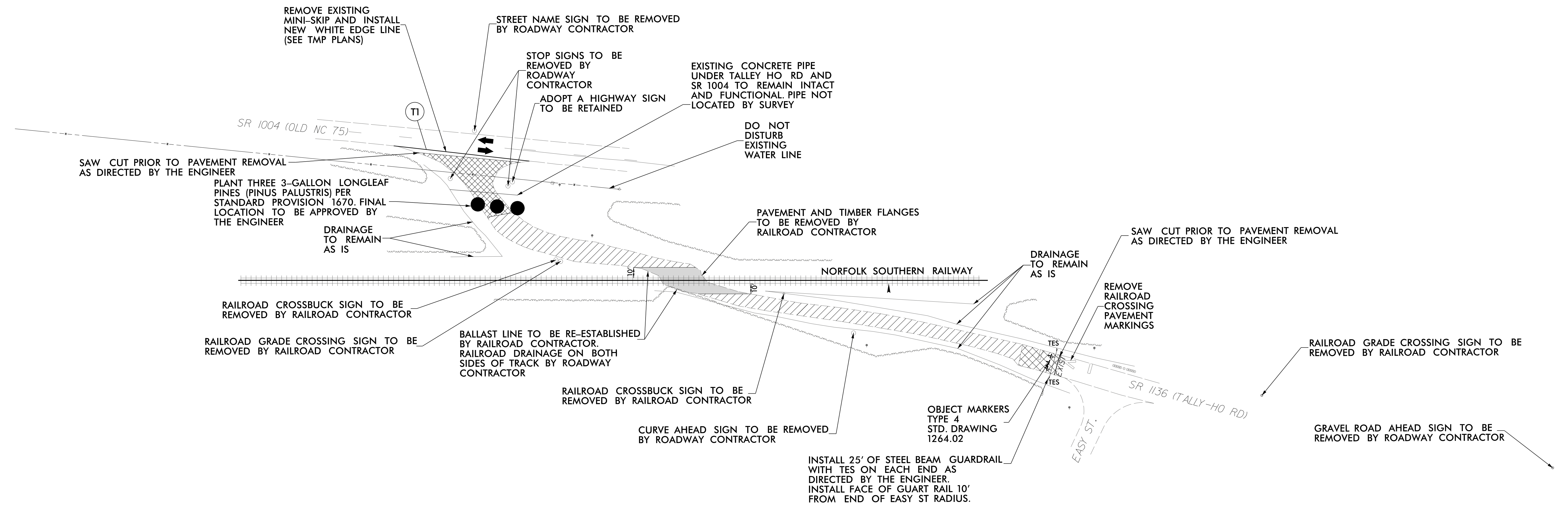
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PROJECT REFERENCE	SHEET NO.
Y-5500EC	3B-1
ROADWAY DESIGN ENGINEER  SEAL 21102 MOTT MACDONALD 1 & E, LLC LICENSE NO. 7-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 MOTT MACDONALD 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com
GRAPHIC SCALE 	

SUMMARY OF EARTHWORK IN CUBIC YARDS

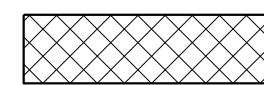
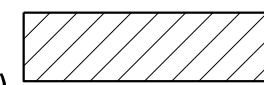
LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + 20%	BORROW	WASTE
OBLITERATION					
NORTH OF TRACK	172				172
SOUTH OF TRACK	327				327
REMOVAL OF GRAVEL					
NORTH OF TRACK	48				48
SOUTH OF TRACK	33				33
SUBTOTAL	580				580
WASTE IN LIEU OF BORROW					
PROJECT TOTAL	580				580
5% TO REPLACE BORROW					
GRAND TOTAL	580				580
SAY	610				

NOTE: Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing and Removal of Existing Asphalt Pavement will be paid for at the contract Lump Sum price for "Grading".

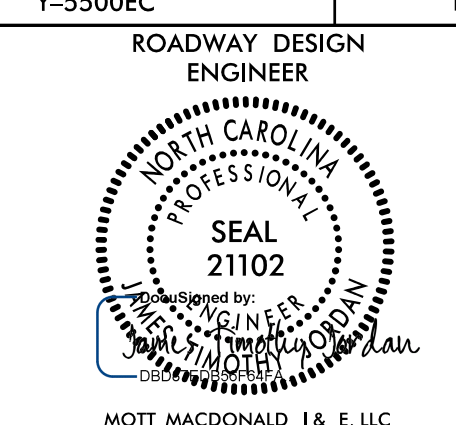



NOTES:

- CONTRACTOR SHALL REMOVE ANY CULVERTS WITHIN EXISTING RAILROAD DITCHES AND GRADE THEM TO DRAIN.
- ALL INFORMATION SHOWN ON THE PLAN SHEET IS BASED ON AERIAL PHOTOGRAPHY AND HAS NOT BEEN SURVEYED. ALL MAPPING INFORMATION SHOWN IS APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR TO CONTACT THE NCDOT RESIDENT ENGINEER TO SCHEDULE THE CLOSURE OF TALLY-HO ROAD.
- THE RAIL SEAL FLANGES, EXISTING RAILROAD SIGNAL EQUIPMENT AND EXISTING PAVEMENT WITHIN 10' OF THE TRACKS WILL BE REMOVED BY NORFOLK SOUTHERN. CONTRACTOR SHALL REMOVE STOCKPILED MATERIALS LEFT BY NORFOLK SOUTHERN.
- CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREA OUTSIDE THE RAILROAD BALLAST LINE.
- CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 TO LOCATE ALL UNDERGROUND UTILITIES IN THE WORK AREA.
- CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN TO LOCATE ANY UNDERGROUND RAILROAD UTILITIES IN THE WORK AREA PRIOR TO COMMENCEMENT OF WORK IN THE CORRIDOR.
- CONTRACTOR SHALL REMOVE EXISTING HIGHWAY ROADBED AND GRADE AREA TO MATCH ADJACENT TOPOGRAPHY. ANY EXISTING CULVERTS IN THE RAILROAD DITCHES SHALL BE REMOVED AND EXISTING DITCHES GRADED TO DRAIN. CONTRACTOR SHALL COORDINATE THIS WITH THE ENGINEER TO HAUL AWAY ANY ASPHALT LEFT BY THE RAILROAD.
- ALL PAVEMENT WITHIN THE RAILROAD CORRIDOR SHALL BE REMOVED PRIOR TO THE CONCLUSION OF THE PROJECT. ALL ACTIVITIES ASSOCIATED WITH THIS CROSSING REMOVAL WILL BE CONSIDERED INCIDENTAL TO LUMP SUM GRADING.
- ALL SIGNS REMOVED BY CONTRACTOR TO BE RETURNED TO DIVISION OF HIGHWAYS PER DIRECTION OF ENGINEER.

LEGEND	
PAVEMENT REMOVAL	
PAVEMENT REMOVAL (OBLITERATE)	

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PROJECT REFERENCE	SHEET NO.
Y-5500EC	TMP-1
ROADWAY DESIGN ENGINEER  SEAL 21102 MOTT MACDONALD I & E, LLC LICENSE NO. 7-0669	
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Prepared in the Office of:	 MOTT MACDONALD 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmcc.com

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" – HIGHWAY DESIGN BRANCH– N.C. DEPARTMENT OF TRANSPORTATION – RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES
1135.01	CONES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS – LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS – TWO-LANE AND MULTI-LANE ROADWAYS
1261.02	GUARDRAIL AND BARRIER DELINEATORS – TYPES AND MOUNTING
1264.01	OBJECT MARKERS TYPES
1264.02	OBJECT MARKERS INSTALLATION

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TRAFFIC PATTERN ALTERATIONS

A) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

B) PROVIDE PERMANENT SIGNING.

C) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

D) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

E) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

F) INSTALL TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING
SR 1004 (OLD NC 75)	PAINT

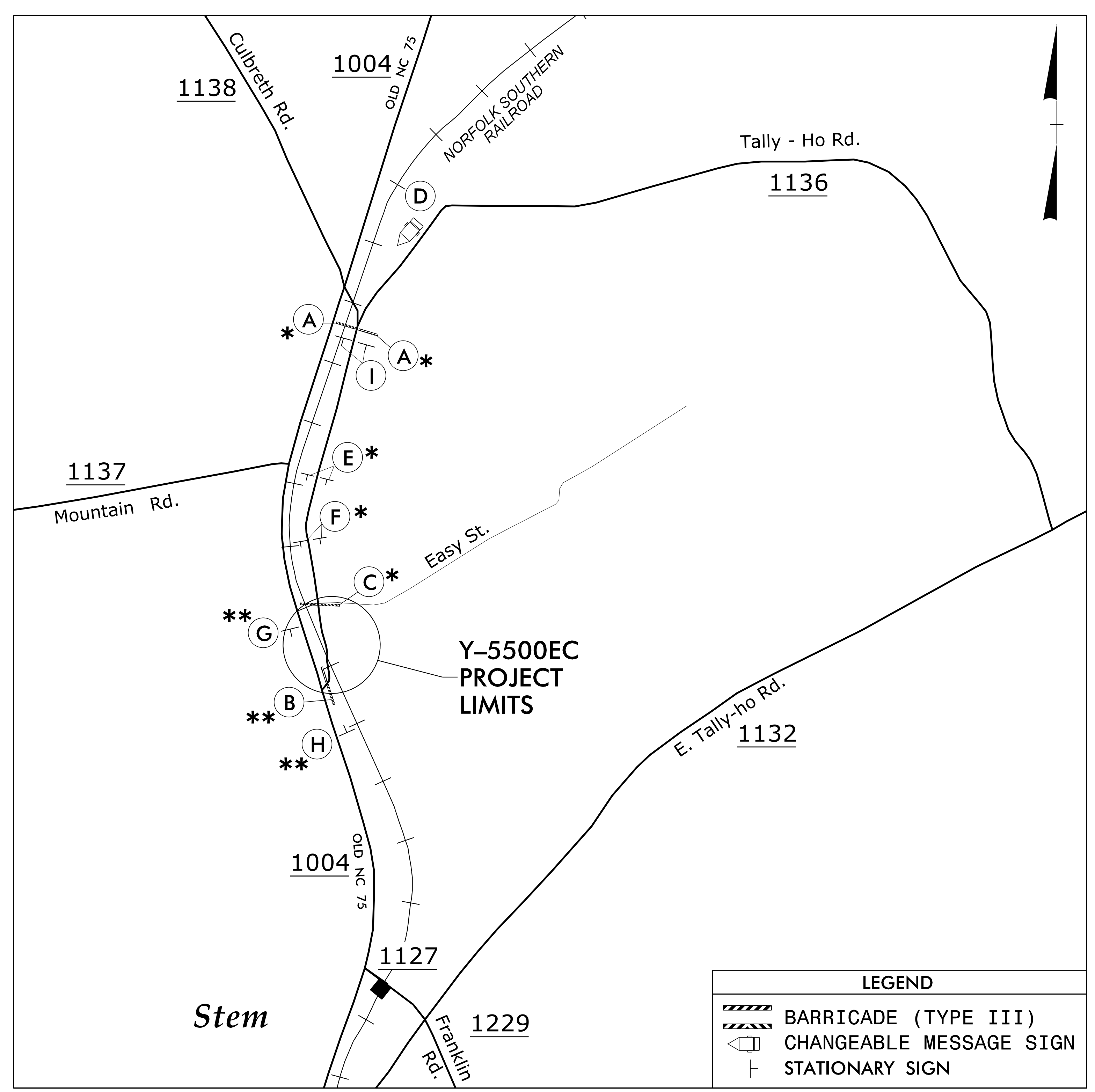
G) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES

PHASING

- STEP 1: USING TMP-2, PERFORM THE FOLLOWING:
 – PLACE CHANGEABLE MESSAGE SIGN AS SHOWN ON TMP-2 TO BE IN PLACE 30 DAY PRIOR TO THE PROPOSED ROAD CLOSURE (SEE NOTES ON TMP-2)
- STEP 2: USING TMP-2, PERFORM THE FOLLOWING:
 – INSTALL ALL ROAD CLOSURE SIGNING INCLUDING TYPE III BARRICADES (SEE NOTES ON TMP-2)
 – PLACE DRUMS ALONG THE OUTSIDE SHOULDER OF SR 1004 (OLD NC 75) AT SR 1136 (TALLY-HO ROAD)
 – CLOSE SR 1136 (TALLY-HO ROAD) FROM SR 1004 (OLD NC 75) TO EASY ST
- STEP 3: USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 14 PERFORM THE FOLLOWING:
 – INSTALL & REMOVE PAVEMENT MARKINGS ON SR 1004 (OLD NC 75) AS SHOWN ON SHEET 4
- STEP 4: USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 14 ON SR 1004 (OLD NC 75) AS NEEDED, COMPLETE THE FOLLOWING:
 * REMOVAL OF EXISTING RAILROAD CROSSING AS SHOWN ON SHEET 4
 * REMOVAL OF EXISTING PAVEMENT AT THE APPROACH TO THE INTERSECTION OF SR 1004 (OLD NC 75) AND SR 1136 (TALLY-HO ROAD)
 * CONSTRUCTION OF REVISED INTERSECTION OF SR 1136 (TALLY-HO ROAD) AND EASY ST
 * INSTALL PERMANENT "NO OUTLET" (W14-2) SIGN
- STEP 5: REMOVE ALL TRAFFIC CONTROL SIGNING AND DEVICES AND RE-OPEN SR 1136 (TALLY-HO ROAD) FROM SR 1138 (CULBRETH ROAD) TO EASY STREET

PAVEMENT MARKING

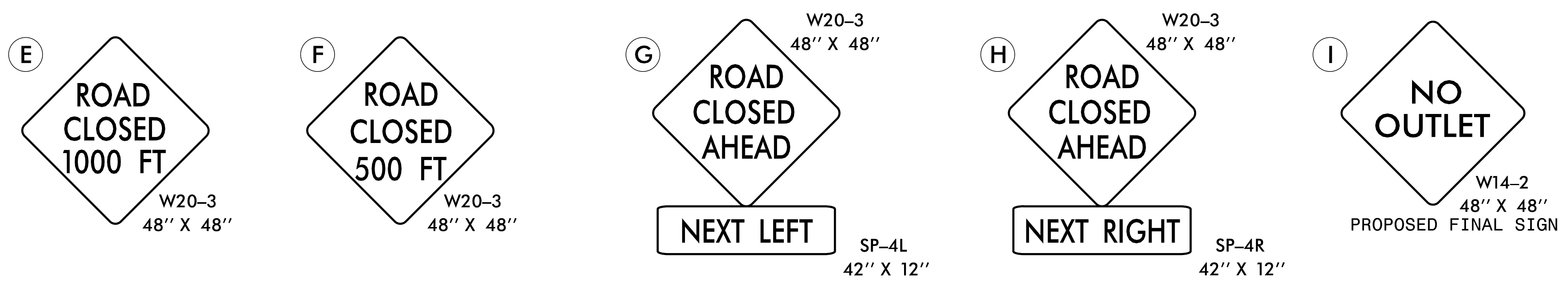
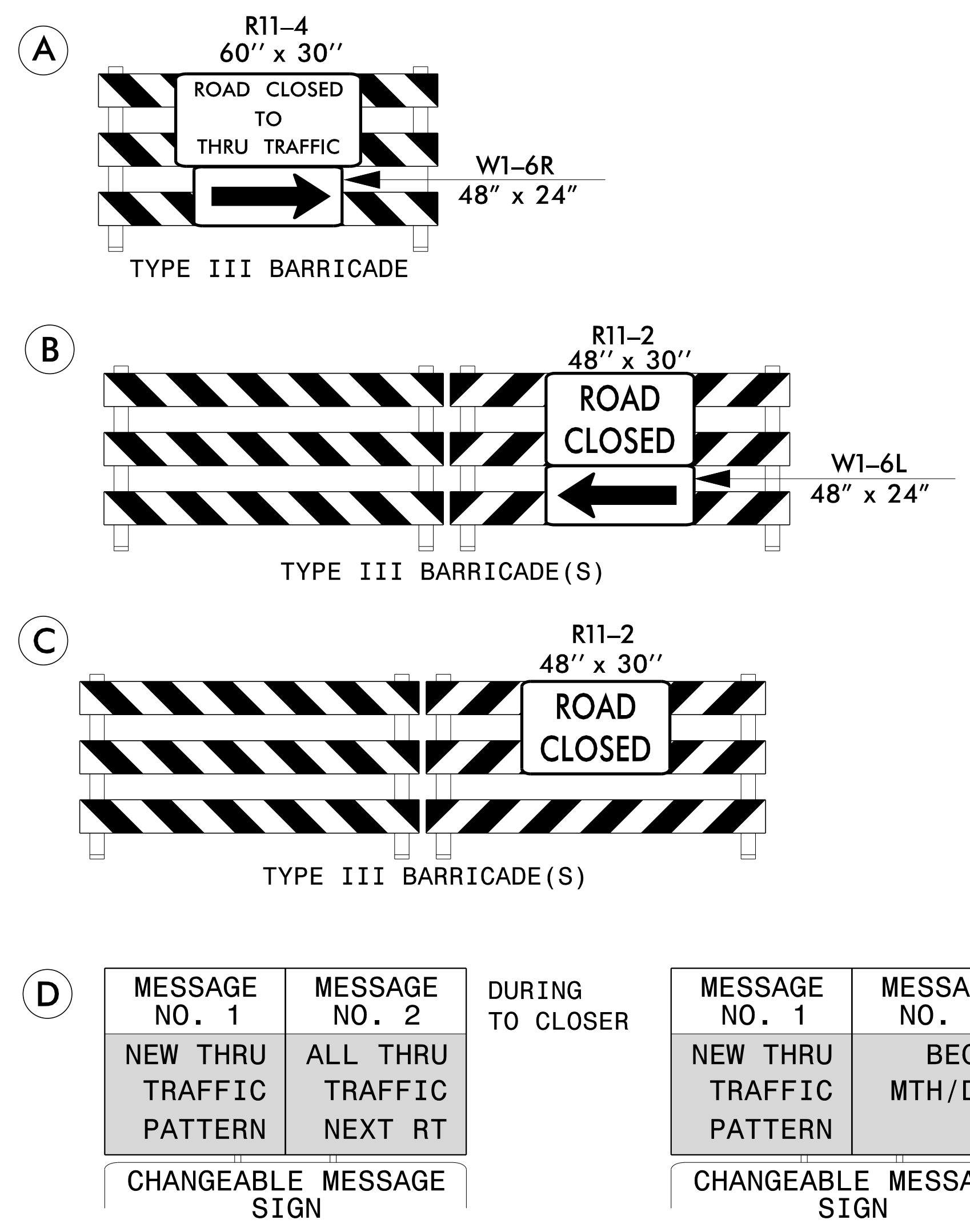
PAINT WHITE EDGELINE (4") 260 LF



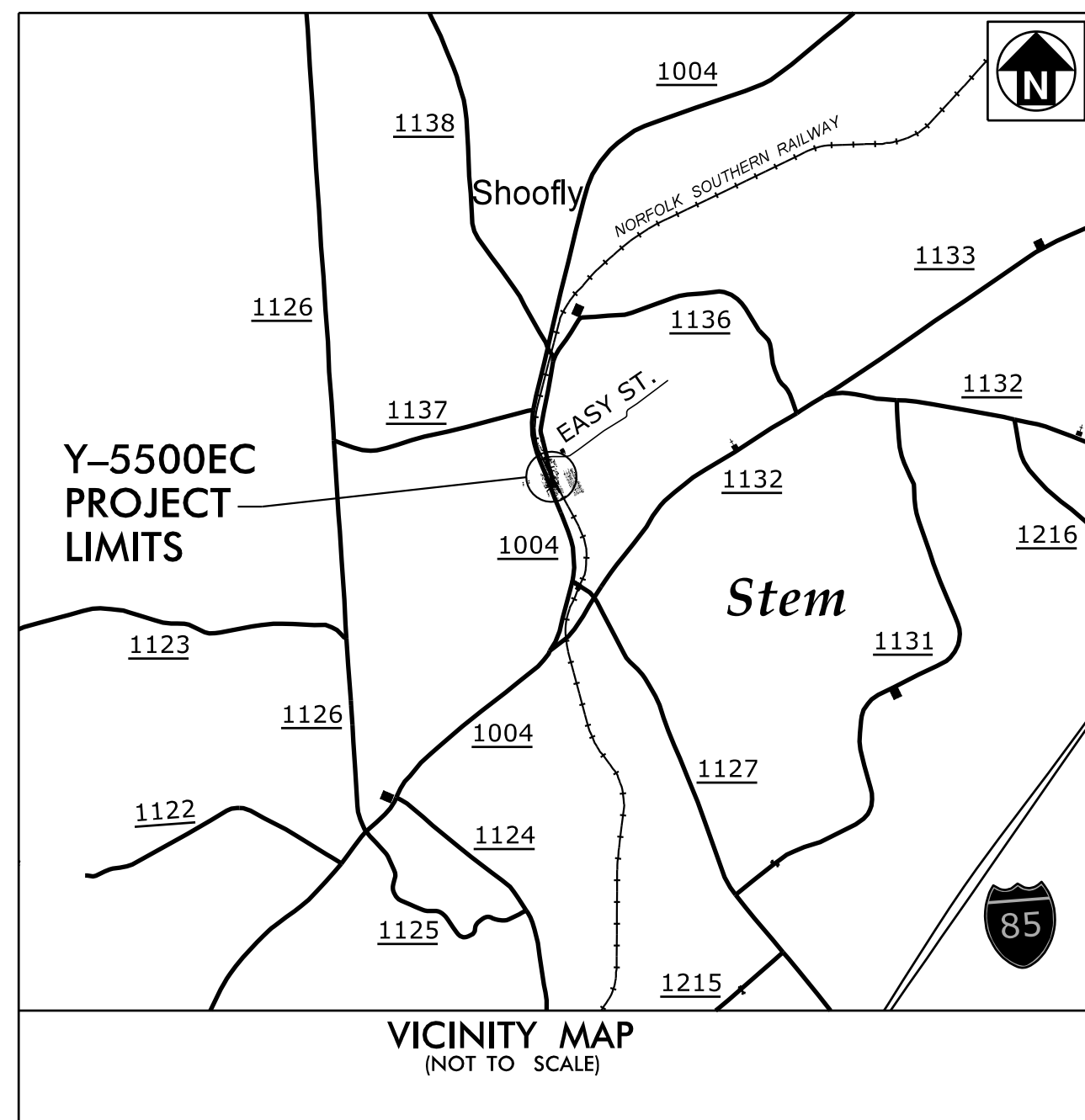
NOTE: AT INTERSECTION OF SR 1136 (TALLY HO ROAD) AND SR 1004 (OLD NC 75), USE DRUMS AND TYPE III BARRICADES TO CLOSE EXISTING ROADWAY TO TRAFFIC. REPLACE EXISTING MINISKIP WITH 4" WHITE EDGELINE.

* NOTE: REMOVE AFTER COMPLETE INSTALLATION OF END OF ROAD TRAFFIC CONTROL DEVICES ON SR 1136 (TALLY-HO ROAD) AND PLACEMENT OF PROPOSED "NO OUTLET" SIGNS.

** NOTE: REMOVE UPON COMPLETION OF REMOVAL OF 15' OF EXISTING SR 1136 (TALLY-HO ROAD) PAVEMENT ADJACENT TO EXISTING SR 1004 (OLD NC 75) ROADWAY. MAINTAIN DRUMS ON EXISTING SHOULDER UNTIL ALL WORK IS COMPLETED OR AS DIRECTED BY ENGINEER.



TIP PROJECT: Y-5500EC



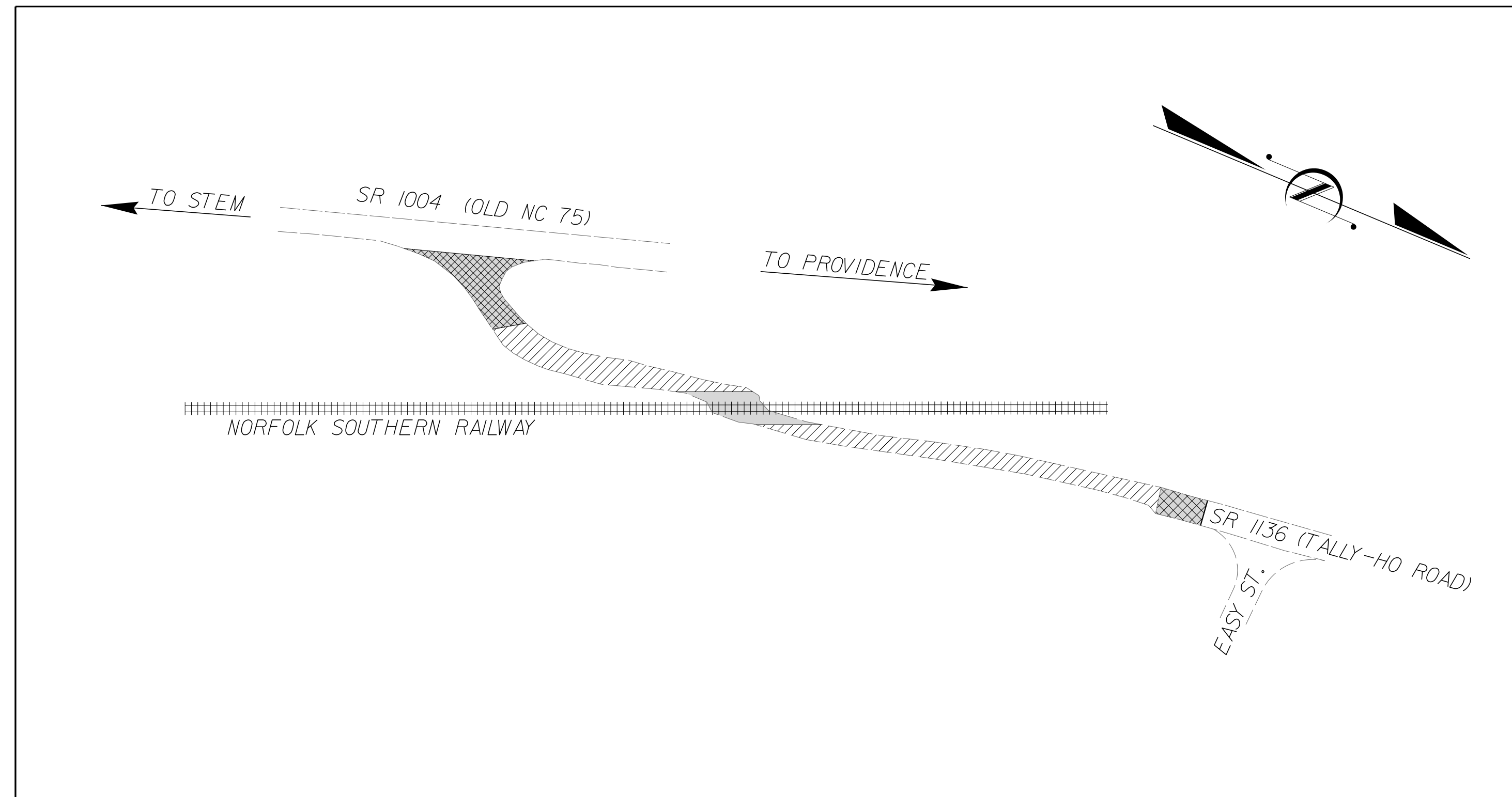
STATE OF NORTH CAROLINA
RAIL DIVISION

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

GRANVILLE COUNTY

**LOCATION: SR 1136 (TALLY-HO ROAD) FROM SR 1004 (OLD NC 75)
TO EASY STREET**

**TYPE OF WORK: PAVEMENT REMOVAL, GRADING, DRAINAGE, PAVEMENT
MARKINGS AND SIGNAGE**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	Y-5500EC	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45533.1.21	0523008	PE	
4556633.3.21	0523008	CONST	

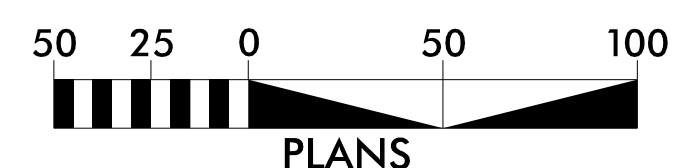
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1650.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	▲
1650.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
1633.02	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	U
1635.02	Rock Pipe Inlet Sediment Trap Type-B	U
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

**THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**

GRAPHIC SCALE



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

M M
**MOTT
MACDONALD**

Prepared in the Office of:
MOTT MACDONALD
7621 Purfoy Road, Suite 115
Fuquay-Varina, NC 27526
(919) 552-2253
(919) 552-2254 (Fax)
www.mottmac.com
NC License No. F-0669

Designed by:
Eleni Riggs, PE **3056**
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

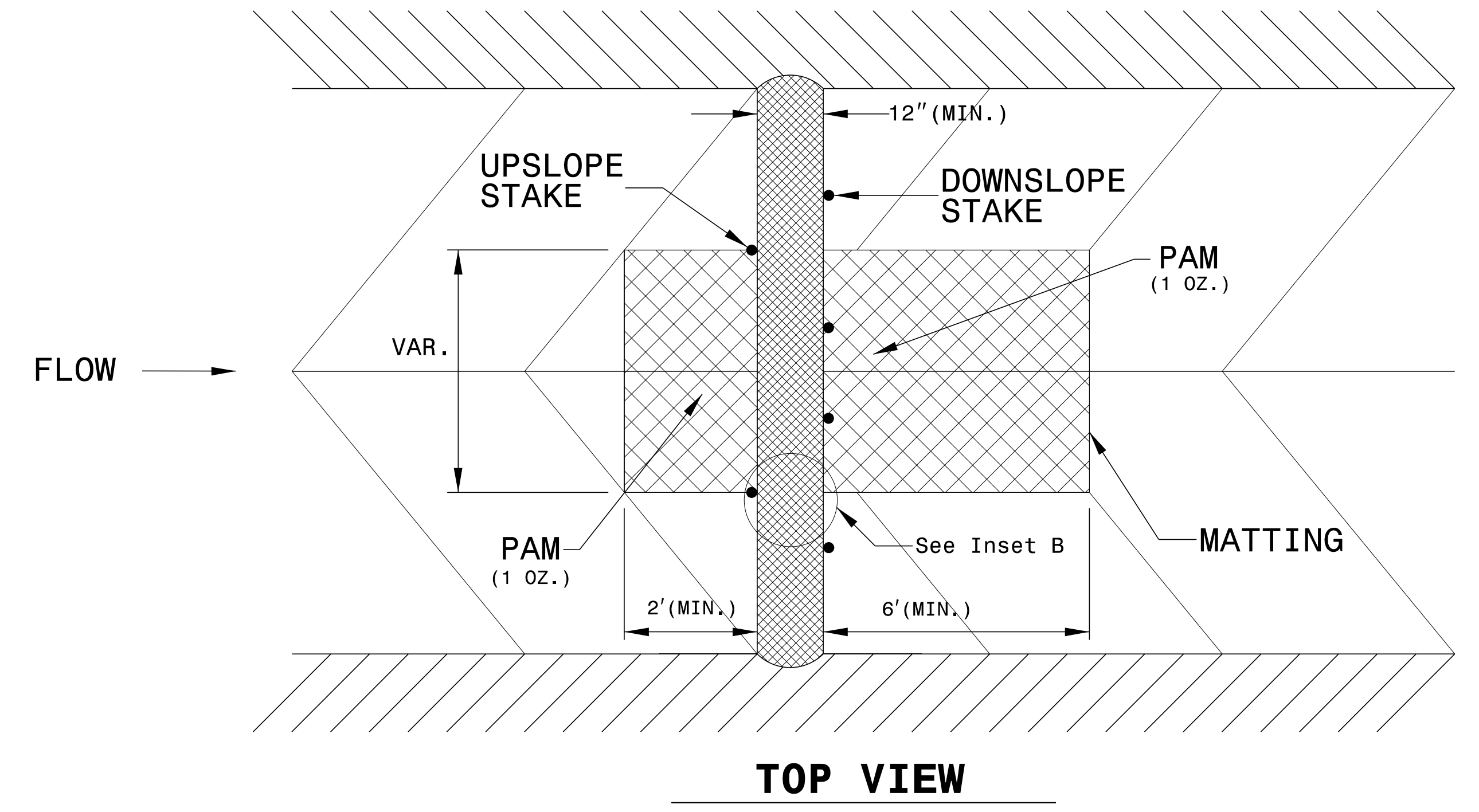
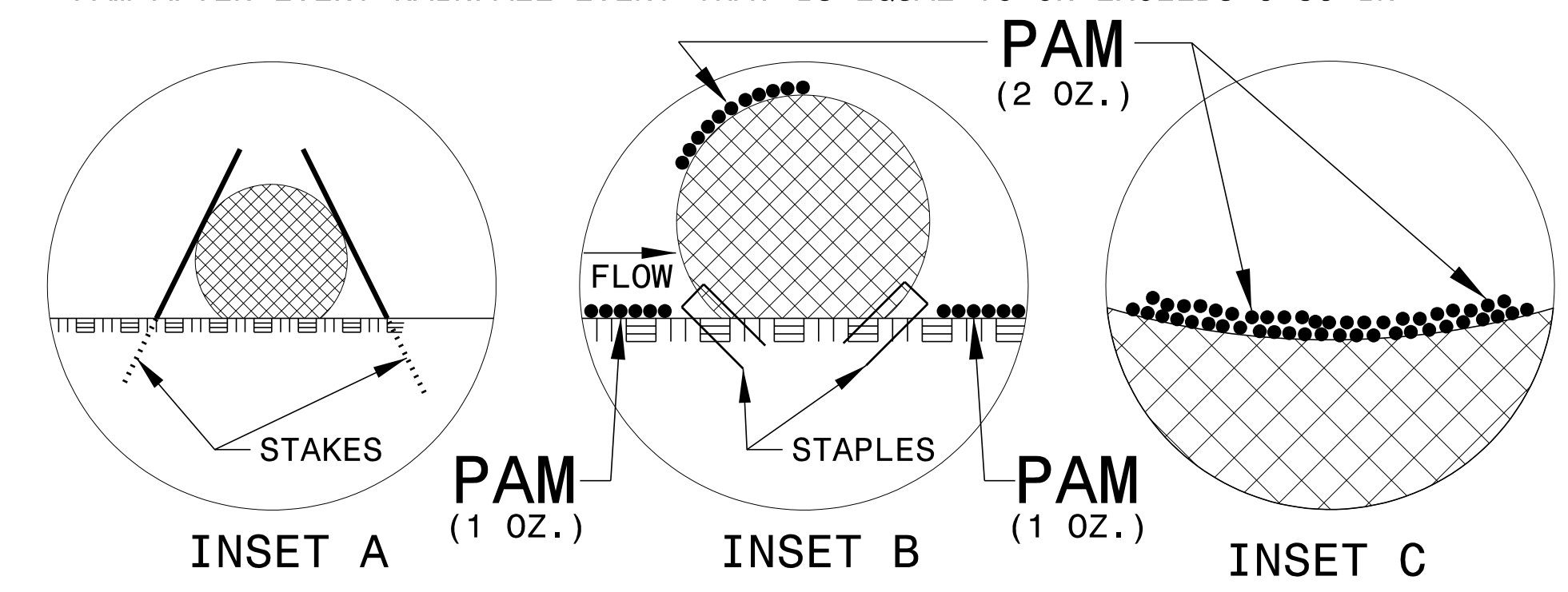
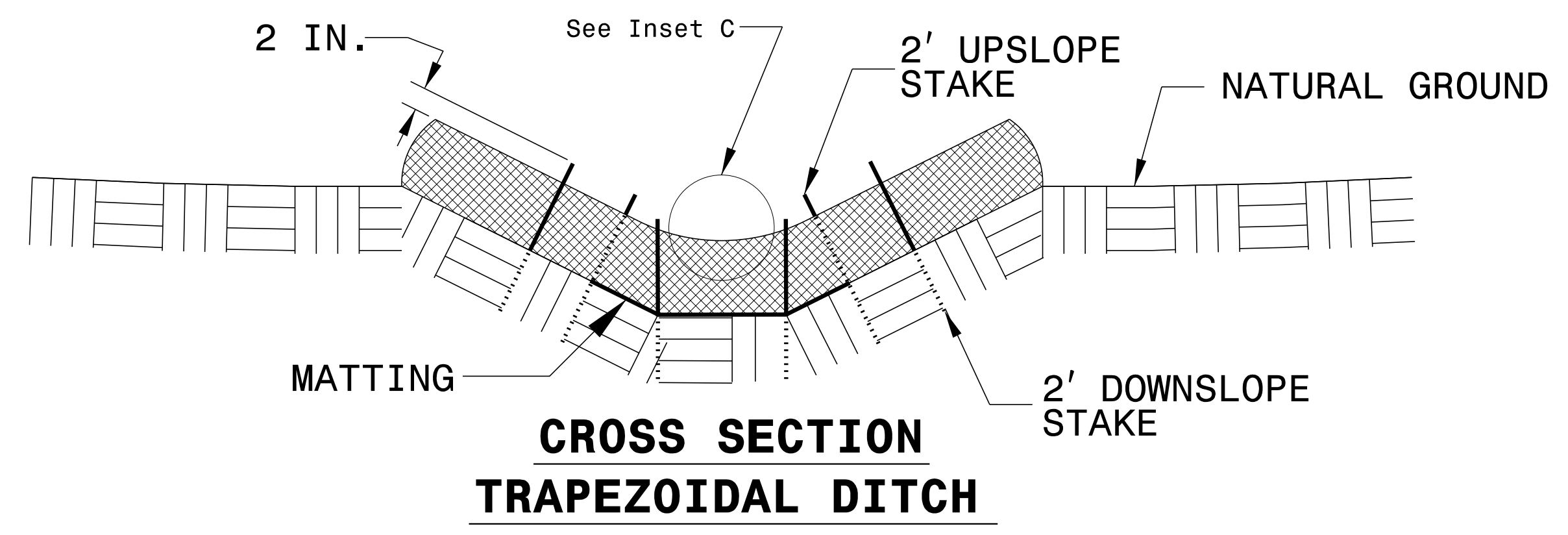
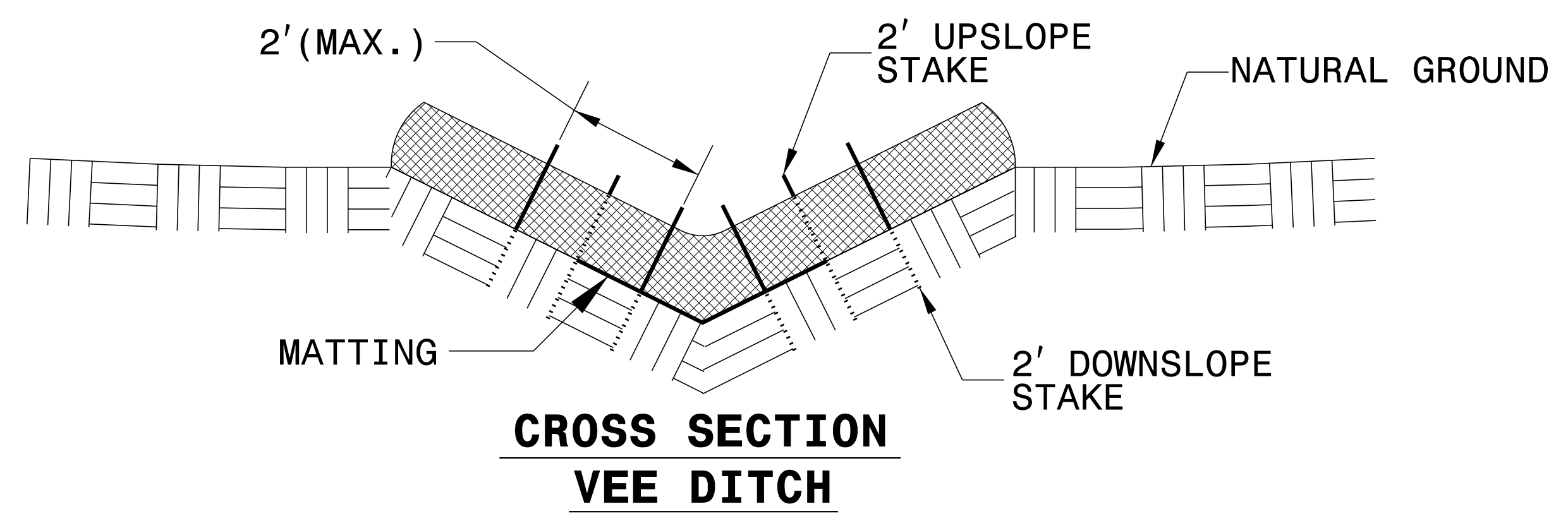
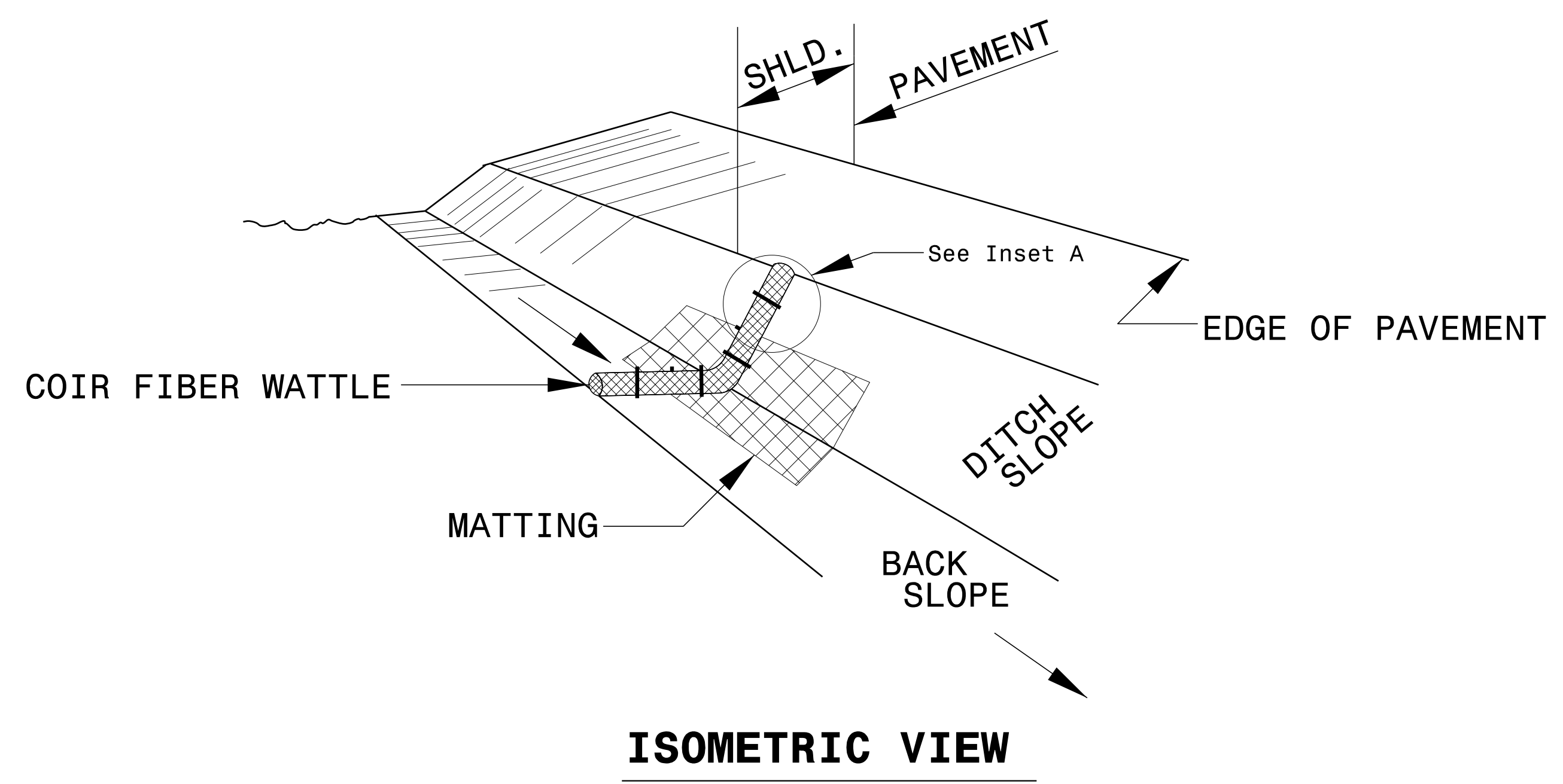
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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	1633.03 Temporary Rock Silt Check Type C
1630.02 Silt Basin Type A	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.06 Special Stilling Basin	1640.01 Coir Fiber Jaffle
1631.01 Matting Installation	1645.01 Temporary Stream Crossing

PROJECT REFERENCE NO.	SHEET NO.
Y-5500EC	EC-2
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

- NOTES:**
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

FALLS LAKE WATERSHED SOIL STABILIZATION TIMEFRAMES

PERMANENT GROUNDCOVER:
REQUIRED TO BE ESTABLISHED NO LATER THAN 7 DAYS
AFTER THE FINAL PHASE OF GRADING OF ANY PORTION
OF THE SITE.

TEMPORARY GROUNDCOVER:
SLOPE-SPECIFIC GROUNDCOVER REQUIREMENTS
UPON COMPLETION OF ANY PHASE OF GRADING

<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	NONE
SLOPES 3:1 OR FLATTER	10 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH NO SLOPE	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PLACE TEMPORARY ROCK SEDIMENT DAMS - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.

PERIMETER EC MEASURES SHALL BE INSTALLED DURING C & G PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

PROJECT REFERENCE	SHEET NO.
Y-5500EC	EC-4CONST-4

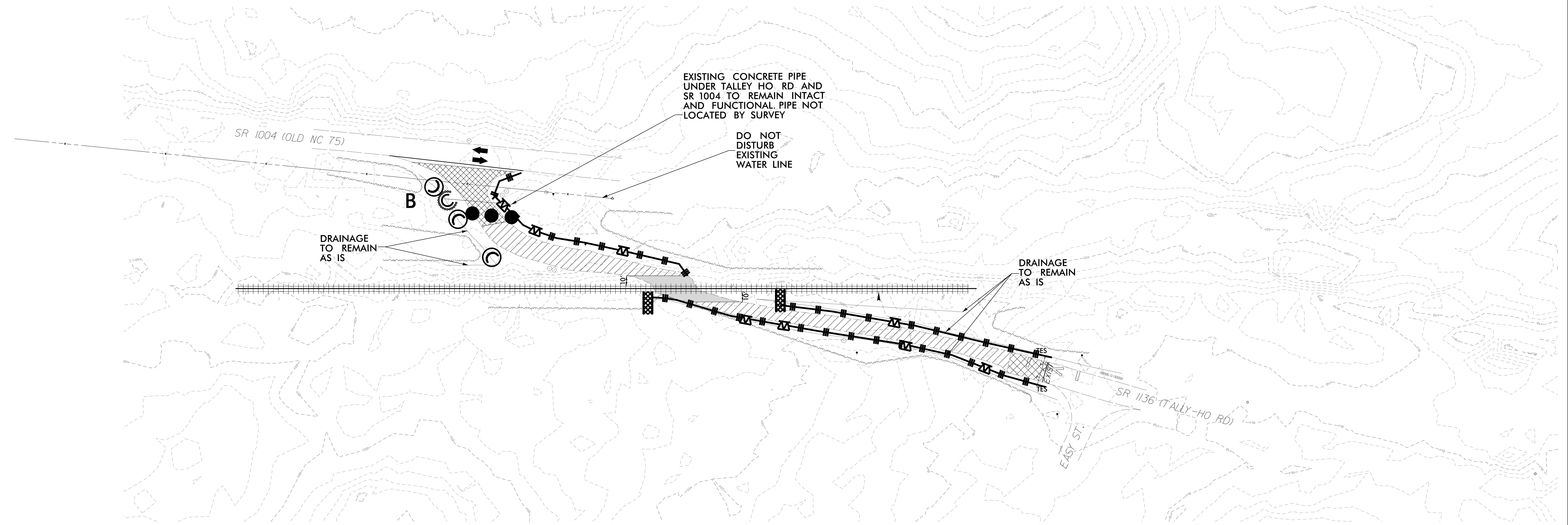
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
ELENI M. RIGGS, PE
CERTIFICATION NUMBER: 3056
ISSUED: OCTOBER 14, 2022

Prepared in the Office of:

M
MOTT
MACDONALD
7621 Purfoy Rd, Suite 115
Fuquay-Varina, NC 27526
www.mottmac.com

GRAPHIC SCALE
25' 0 25' 50'



MOTT MACDONALD
R:\Erosion Control\Y5500EC.ec.cg.psh.dgn
10/14/2022 12:46:58 PM

NOTE: ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.

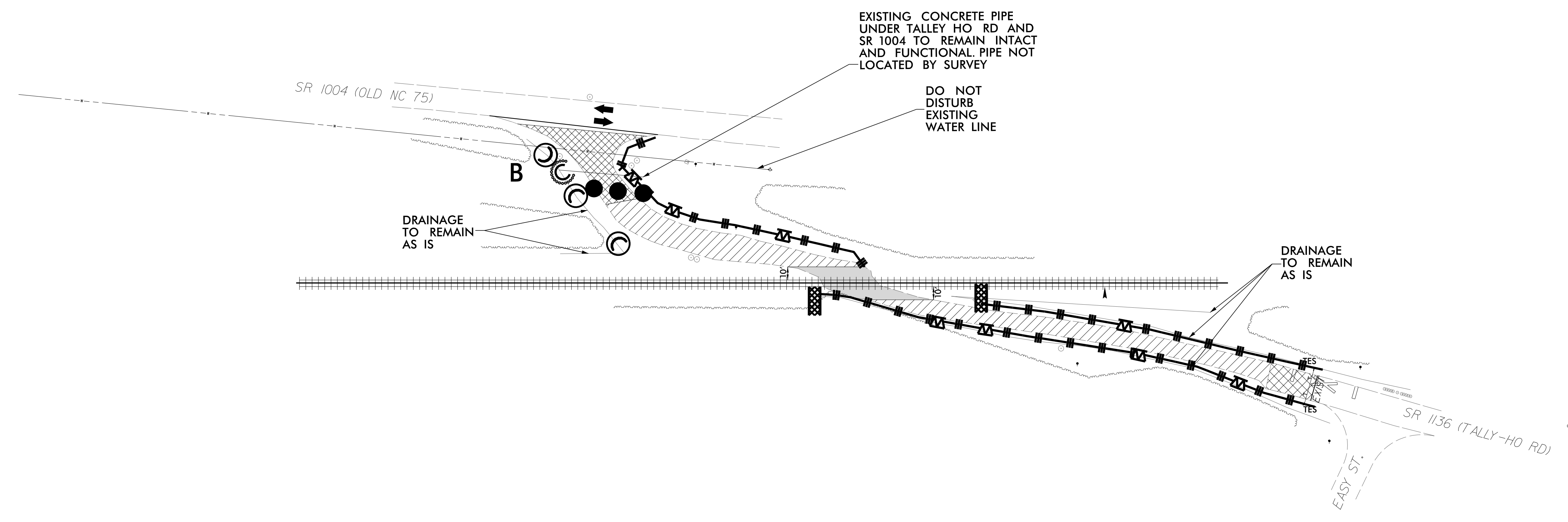
NOTE: CONTRACTOR SHALL MAINTAIN ALL DEVICES AS PROJECT IS BROUGHT UP TO GRADE.

NOTE: INSTALL MATTING FOR EROSION CONTROL IN ALL PROPOSED DITCH LINES EXCEPT WHERE PERMANENT LINERS ARE SPECIFIED ON THE PLANS OR DIRECTED OTHERWISE BY THE ENGINEER.

NOTE: CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES IN ACCORDANCE WITH THE "SOIL STABILIZATION TIMEFRAMES", SEE EC-3.

PROJECT REFERENCE	SHEET NO.
Y-5500EC	EC-5CONST-4
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	
LEVEL III CERTIFIED BY: ELENI M. RIGGS, PE CERTIFICATION NUMBER: 3056 ISSUED: OCTOBER 14, 2022	
Prepared in the Office of:	<p>M 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 MOTT MACDONALD www.mottmac.com</p> <p>GRAPHIC SCALE 25' 0 25' 50'</p>

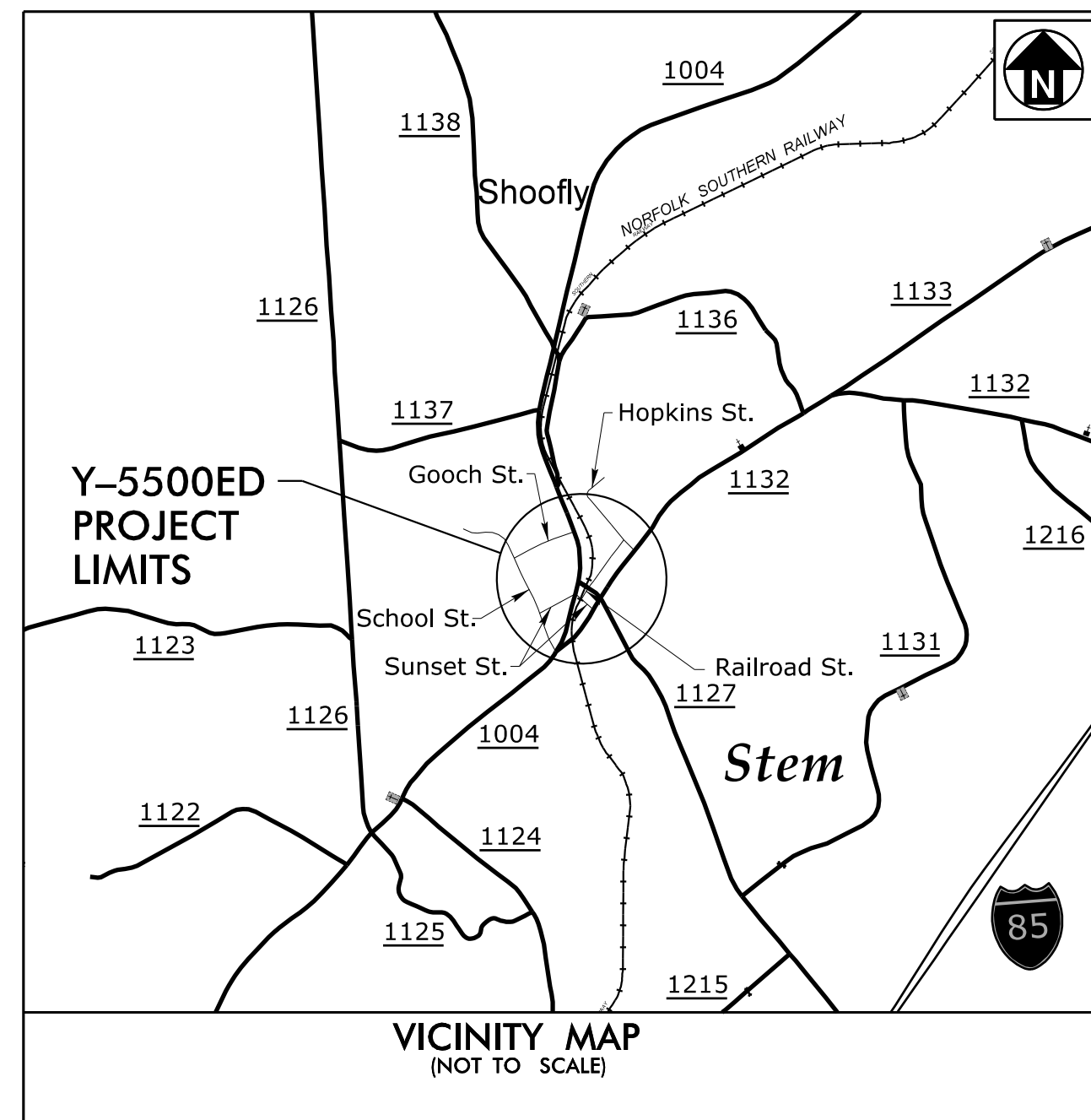
FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 4



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10/14/2022 12:44:08 PM

TIP PROJECT: Y-5500ED

CONTRACT:



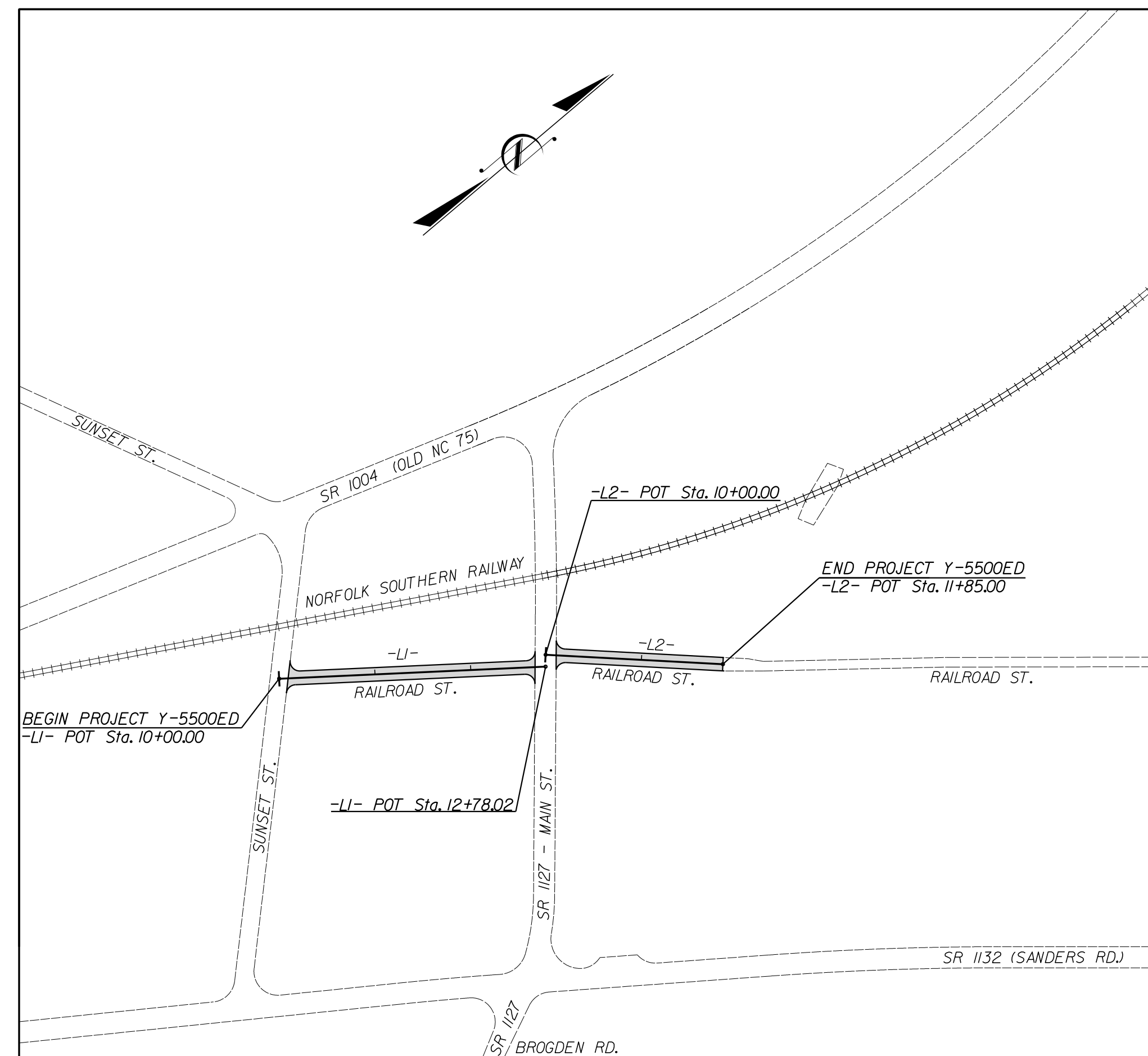
STATE OF NORTH CAROLINA
RAIL DIVISION

GRANVILLE COUNTY

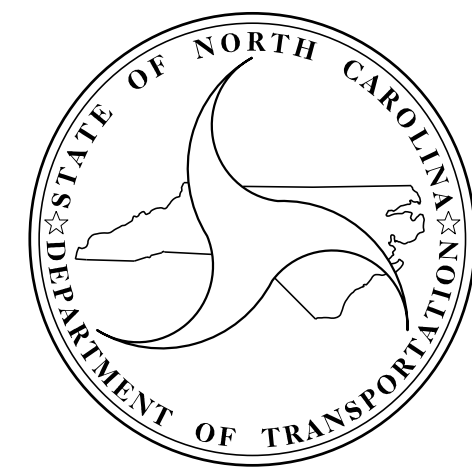
LOCATION: RAILROAD STREET FROM SUNSET STREET TO 185 FEET NORTH OF MAIN STREET AND REMOVAL OF NORFOLK SOUTHERN CROSSING #734 896G IN STEM

TYPE OF WORK: PAVEMENT REMOVAL, PAVING, GRADING, PAVEMENT MARKINGS AND SIGNAGE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	Y-5500ED	1	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45533.1.20	0523009	PE	
45533.3.20	0523009	CONST	



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2008 = 166
ADT N/A = N/A
V = 25 MPH
FUNC CLASS = N/A

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT = 0.081 MILES
TOTAL LENGTH TIP PROJECT = 0.081 MILES

Prepared in the Office of Mott MacDonald for

RAIL DIVISION

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2018 STANDARD SPECIFICATIONS

LETTING DATE:

November 9, 2022

NCDOT CONTACT:

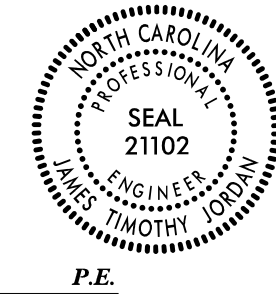
TIM JORDAN, PE
PROJECT ENGINEER

W. HERBERT TURNER, JR
HYDRAULICS ENGINEER

BRIAN GACKSTETTER, EI
SENIOR PROJECT ENGINEER

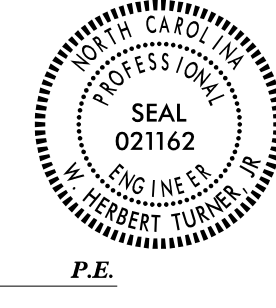
ROADWAY DESIGN ENGINEER

DocuSigned by:
James Timothy Jordan
SIGNATURE



HYDRAULICS ENGINEER

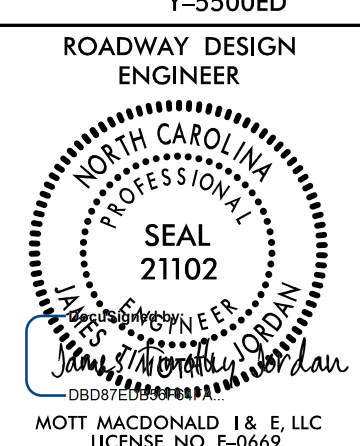

DocuSigned by:
W. Herbert Turner, Jr.
SIGNATURE



PLANS PREPARED BY:

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LICENSE NO. F-0669

PROJECT REFERENCE	SHEET NO.
Y-5500ED	1A
ROADWAY DESIGN ENGINEER	
	
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GENERAL NOTES

GENERAL NOTES: 2018 SPECIFICATIONS EFFECTIVE: 01-16-18

GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

SUPERELEVATION:

SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

CLEARING:

CLEARING SHALL BE PERFORMED IN ACCORDANCE WITH NCDOT CLEARING METHOD II: NO CLEARING BEYOND SLOPE STAKES

SHOULDER CONSTRUCTION:

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

LIST OF ROADWAY STANDARD DRAWINGS

EFF. 01-16-2018

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch – N. C. Department of Transportation – Raleigh, N. C., Dated January, 2018 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
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

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	SUMMARY OF EARTHWORK
3D-1	SUMMARY OF DRAINAGE PIPES
4	PLAN SHEET
5	PROFILE SHEET
TMP-1 THRU TMP-2	TRAFFIC MANAGEMENT PLANS
EC-2 THRU EC-5	PLAN FOR PROPOSED HIGHWAY EROSION CONTROL
X-1 THRU X-4	CROSS-SECTIONS

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----x
Property Monument	□ ECM
Parcel/Sequence Number	⑩②③
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-☠
Potential Contamination Area: Soil	☠-s-☠
Known Contamination Area: Water	☠-w-☠
Potential Contamination Area: Water	☠-w-☠
Contaminated Site: Known or Potential	☠?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
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	↓
Proposed Lateral, Tail, Head Ditch	→
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ CSX TRANSPORTATION MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

Note: Not to Scale *S.U.E. = *Subsurface Utility Engineering*

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Exist Permanent Easment Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	○ R/W
New Right of Way Line with Pin and Cap	○ R/W ▲
New Right of Way Line with Concrete or Granite R/W Marker	▲ R/W
New Control of Access Line with Concrete CA Marker	▲ CA
Existing Control of Access	○ CA
New Control of Access	○ CA
Existing Easement Line	---E---
New Temporary Construction Easement	---E---
New Temporary Drainage Easement	---TDE---
New Permanent Drainage Easement	---PDE---
New Permanent Drainage / Utility Easement	---DUE---
New Permanent Utility Easement	---PUE---
New Temporary Utility Easement	---TUE---
New 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	□ 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	---FOOTBRIDGE---
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ S
Storm Sewer	---S---

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○ P
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	○
H-Frame Pole	●
U/G Power Line LOS B (S.U.E.*)	---P---
U/G Power Line LOS C (S.U.E.*)	---P---
U/G Power Line LOS D (S.U.E.*)	---P---

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○ T
Telephone Pedestal	□ T
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	○
U/G Telephone Cable LOS B (S.U.E.*)	---T---
U/G Telephone Cable LOS C (S.U.E.*)	---T---
U/G Telephone Cable LOS D (S.U.E.*)	---T---
U/G Telephone Conduit LOS B (S.U.E.*)	---TC---
U/G Telephone Conduit LOS C (S.U.E.*)	---TC---
U/G Telephone Conduit LOS D (S.U.E.*)	---TC---
U/G Fiber Optics Cable LOS B (S.U.E.*)	---TFO---
U/G Fiber Optics Cable LOS C (S.U.E.*)	---TFO---
U/G Fiber Optics Cable LOS D (S.U.E.*)	---TFO---

WATER:

Water Manhole	○ W
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	---W---
U/G Water Line LOS C (S.U.E.*)	---W---
U/G Water Line LOS D (S.U.E.*)	---W---
Above Ground Water Line	---A/G Water---

TV:

TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	○
U/G TV Cable LOS B (S.U.E.*)	---TV---
U/G TV Cable LOS C (S.U.E.*)	---TV---
U/G TV Cable LOS D (S.U.E.*)	---TV---
U/G Fiber Optic Cable LOS B (S.U.E.*)	---TV FO---
U/G Fiber Optic Cable LOS C (S.U.E.*)	---TV FO---
U/G Fiber Optic Cable LOS D (S.U.E.*)	---TV FO---

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	---G---
U/G Gas Line LOS C (S.U.E.*)	---G---
U/G Gas Line LOS D (S.U.E.*)	---G---
Above Ground Gas Line	---A/G Gas---

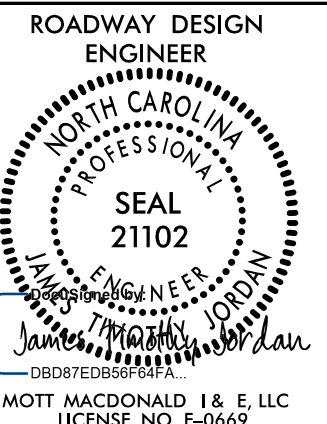


SANITARY SEWER:

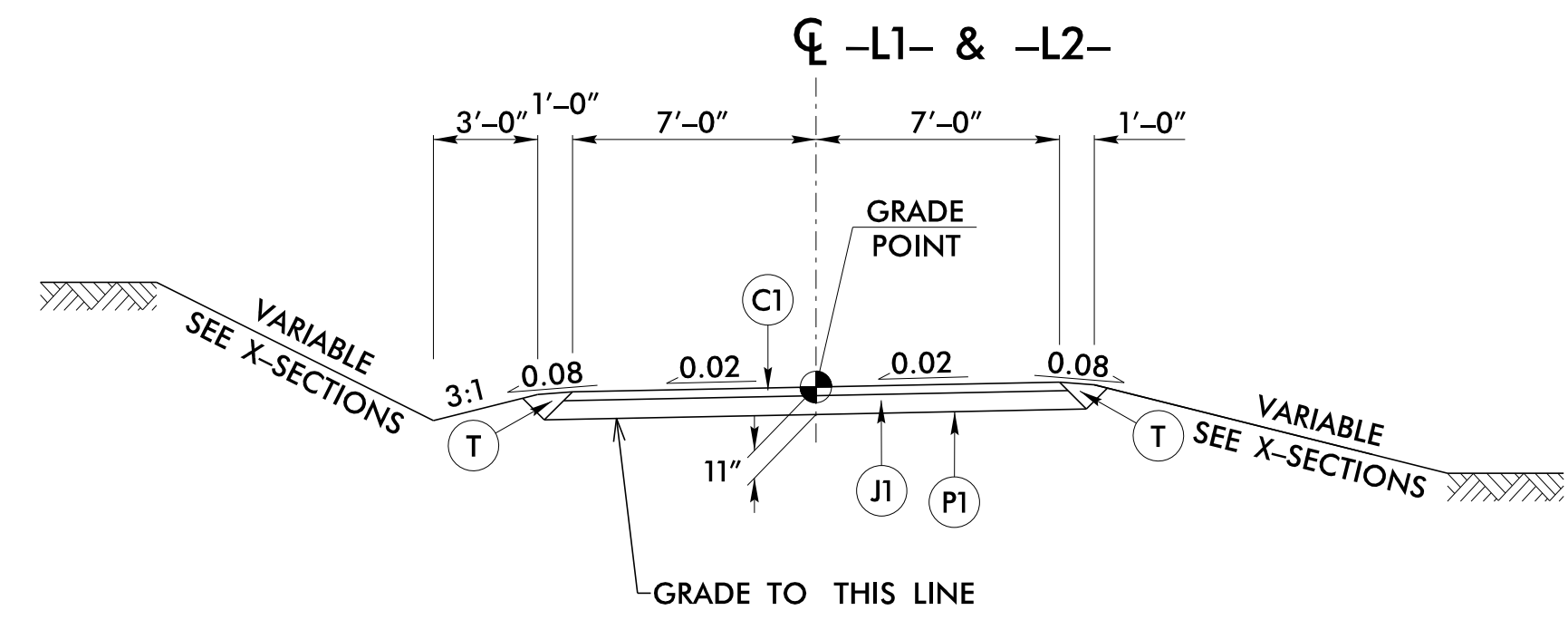
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	---SS---
Above Ground Sanitary Sewer	---A/G Sanitary Sewer---
SS Forced Main Line LOS B (S.U.E.*)	---FSS---
SS Forced Main Line LOS C (S.U.E.*)	---FSS---
SS Forced Main Line LOS D (S.U.E.*)	---FSS---

MISCELLANEOUS:

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

12/2/2016
 MCC86057
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PROJECT REFERENCE	SHEET NO.
Y-5500ED	2A
ROADWAY DESIGN ENGINEER  SEAL 21102 MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 MOTT MACDONALD 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmcc.com
GRAPHIC SCALE 	

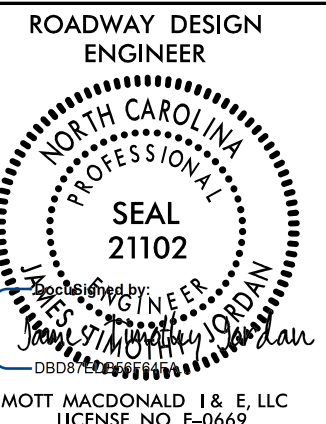



TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1:
 -L1- STA 10+11.05 TO 12+66.94
 -L2- STA 10+10.82 TO 11+85.00

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
J1	PROP. 8" AGGREGATE BASE COURSE.
P1	PRIME COAT AT THE RATE OF .35 GAL. PER SQ. YD.
T	EARTH MATERIAL.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PROJECT REFERENCE	SHEET NO.
Y-5500ED	3B-1
ROADWAY DESIGN ENGINEER	
	
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SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + 20%	BORROW	WASTE
OBLITERATION					
NORTH OF TRACK	63				63
SOUTH OF TRACK	60				60
-L1- STATION 10+11.05 to 12+66.94	47		5		47
-L2- STATION 10+10.82 to 11+85.00	38		2		38
SUBTOTAL	208		7		201
WASTE IN LIEU OF BORROW					
PROJECT TOTAL	208		7		201
5% TO REPLACE BORROW					
GRAND TOTAL	208		7		201
SAY	220				

NOTE: Approximate quantities only. Unclassified Excavation, Fine Grading, Clearing and Grubbing and Removal of Existing Asphalt Pavement will be paid for at the contract Lump Sum price for "Grading".

MCC86057
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NOTES:

TURN OUT RADII ARE 10' UNLESS OTHERWISE NOTED.

CONTACT THE NCDOT RESIDENT ENGINEER TO SCHEDULE THE CLOSURE OF RAILROAD STREET.

THE RAIL SEAL FLANGES, EXISTING GATES & FLASHERS AND THE EXISTING PAVEMENT WITHIN 10' OF THE TRACKS WILL BE REMOVED BY NORFOLK SOUTHERN.

CONTRACTOR SHALL SEED AND MULCH THE DISTURBED AREA OUTSIDE THE RAILROAD BALLAST LINE.

CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 TO LOCATE ALL UNDERGROUND UTILITIES IN THE WORK AREA.

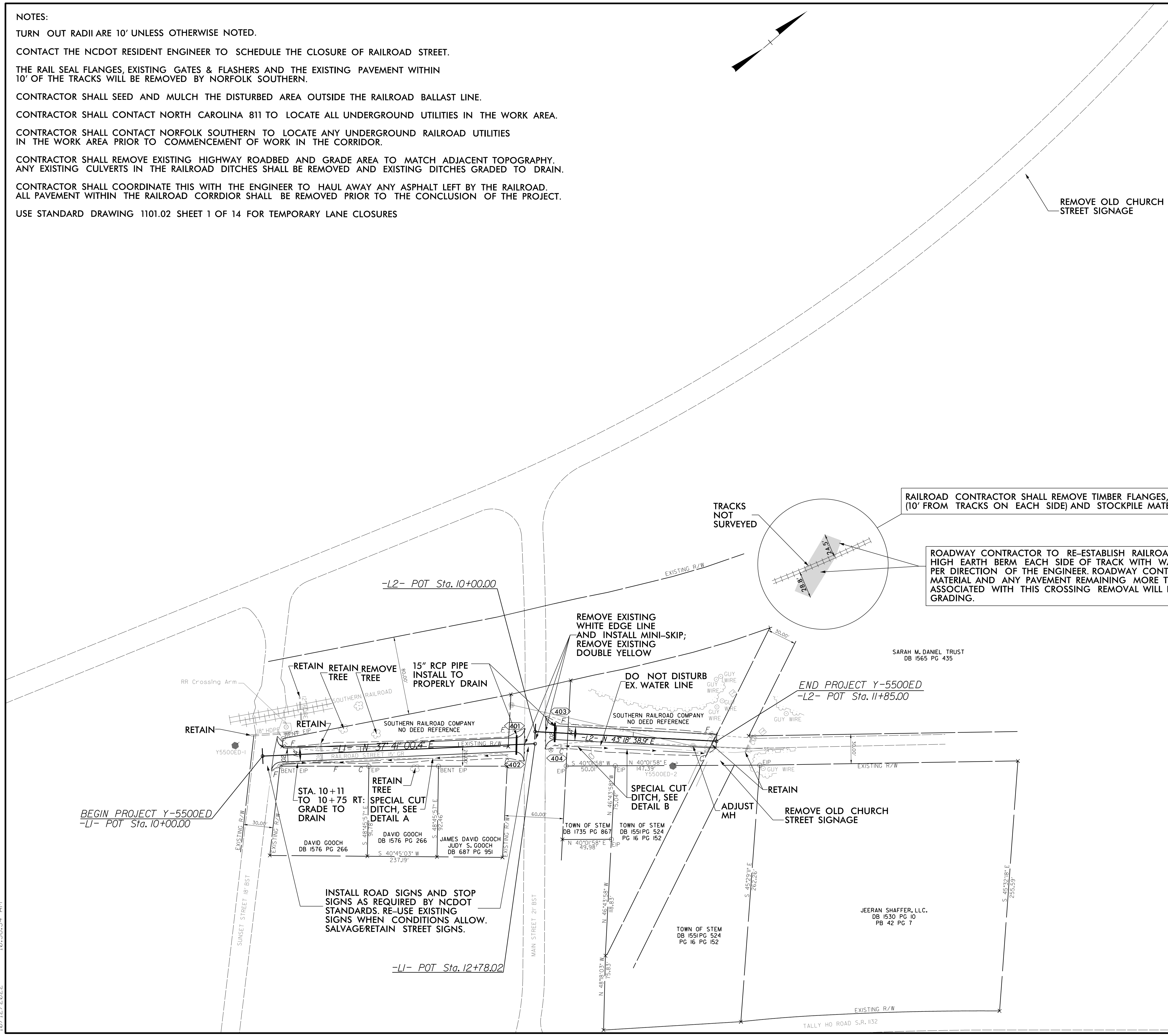
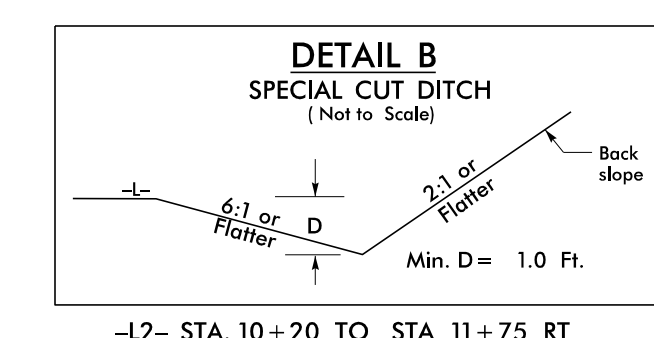
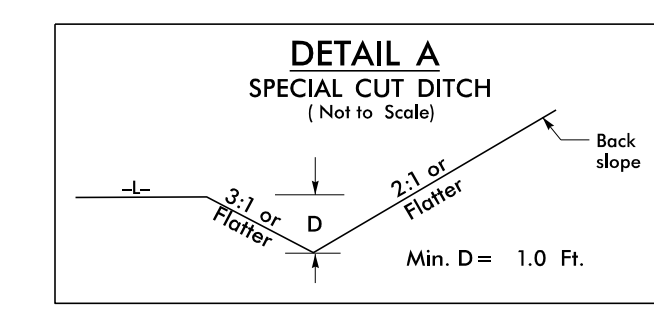
CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN TO LOCATE ANY UNDERGROUND RAILROAD UTILITIES IN THE WORK AREA PRIOR TO COMMENCEMENT OF WORK IN THE CORRIDOR.

CONTRACTOR SHALL REMOVE EXISTING HIGHWAY ROADBED AND GRADE AREA TO MATCH ADJACENT TOPOGRAPHY. ANY EXISTING CULVERTS IN THE RAILROAD DITCHES SHALL BE REMOVED AND EXISTING DITCHES GRADED TO DRAIN.

CONTRACTOR SHALL COORDINATE THIS WITH THE ENGINEER TO HAUL AWAY ANY ASPHALT LEFT BY THE RAILROAD. ALL PAVEMENT WITHIN THE RAILROAD CORRIDOR SHALL BE REMOVED PRIOR TO THE CONCLUSION OF THE PROJECT.

USE STANDARD DRAWING 1101.02 SHEET 1 OF 14 FOR TEMPORARY LANE CLOSURES

PROJECT REFERENCE Y-5500ED	SHEET NO. 4
ROADWAY DESIGN ENGINEER MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	HYDRAULICS ENGINEER MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: M MOTT MACDONALD I & E, LLC 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com	
GRAPHIC SCALE 25' 0 25' 50'	



RAILROAD CONTRACTOR SHALL REMOVE TIMBER FLANGES, PAVEMENT, SIGNS, AND CROSSING EQUIPMENT (10' FROM TRACKS ON EACH SIDE) AND STOCKPILE MATERIAL FOR REMOVAL BY ROADWAY CONTRACTOR

ROADWAY CONTRACTOR TO RE-ESTABLISH RAILROAD DITCH: GRADE TO DRAIN. CREATE 2' TO 3' HIGH EARTH BERM EACH SIDE OF TRACK WITH WASTE SOIL MATERIAL OUTSIDE THE DITCHLINE PER DIRECTION OF THE ENGINEER. ROADWAY CONTRACTOR TO REMOVE ALL NON-SOIL WASTE MATERIAL AND ANY PAVEMENT REMAINING MORE THAN 10' FROM THE TRACKS. ALL ACTIVITIES ASSOCIATED WITH THIS CROSSING REMOVAL WILL BE CONSIDERED INCIDENTAL TO LUMP SUM GRADING.

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "Y5500ED-1"

WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 891829.620(ft) EASTING: 2081447.300(ft) ELEVATION: 466.08(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.00000786

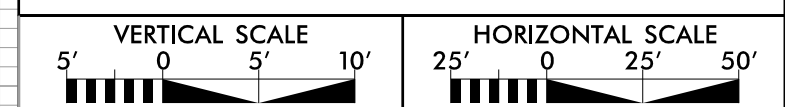
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "Y5500ED-1" TO -L1- STATION 10+00.00 IS N 61°08'28.5" E 29.96'

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

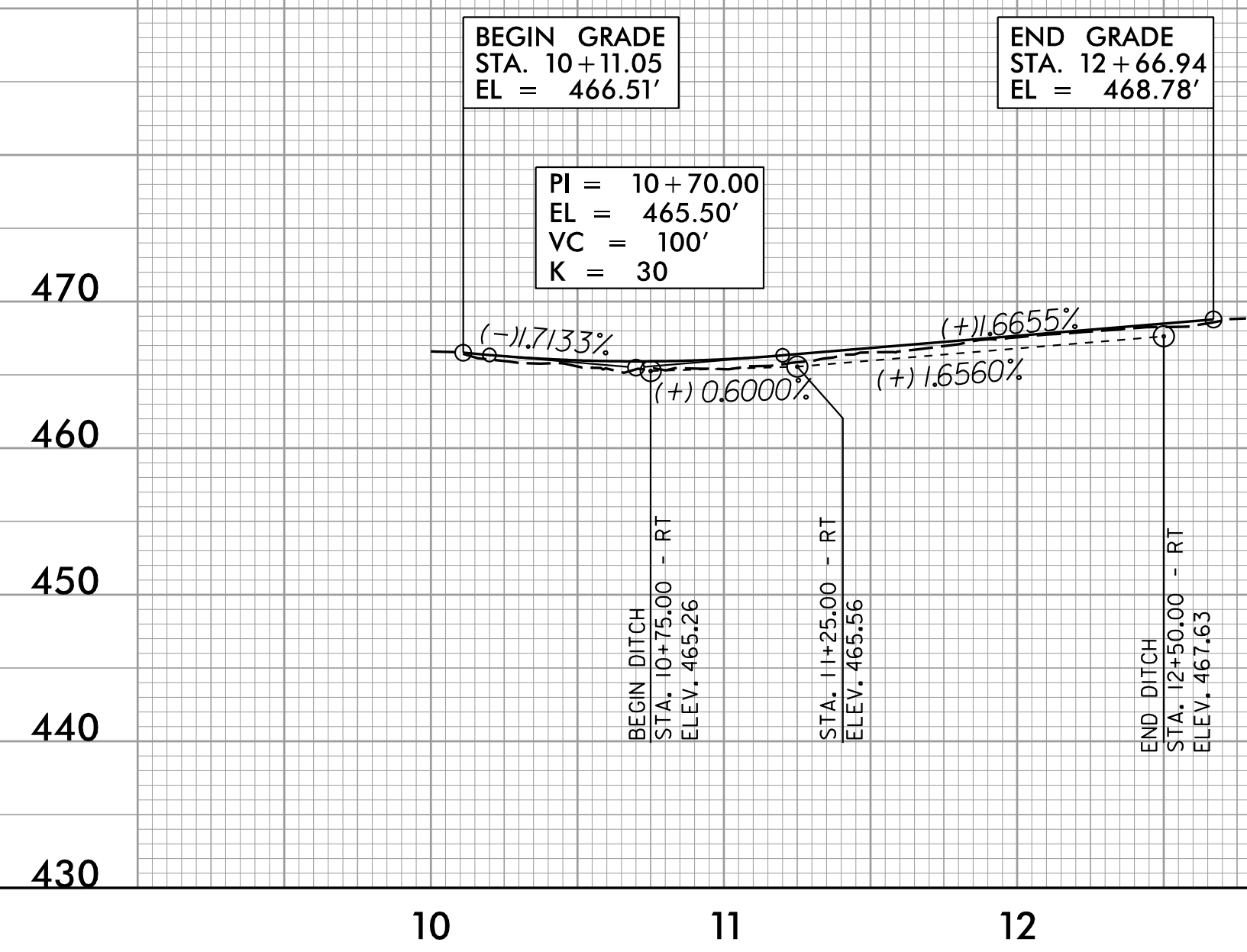
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UNLESS ALL SIGNATURES COMPLETED**

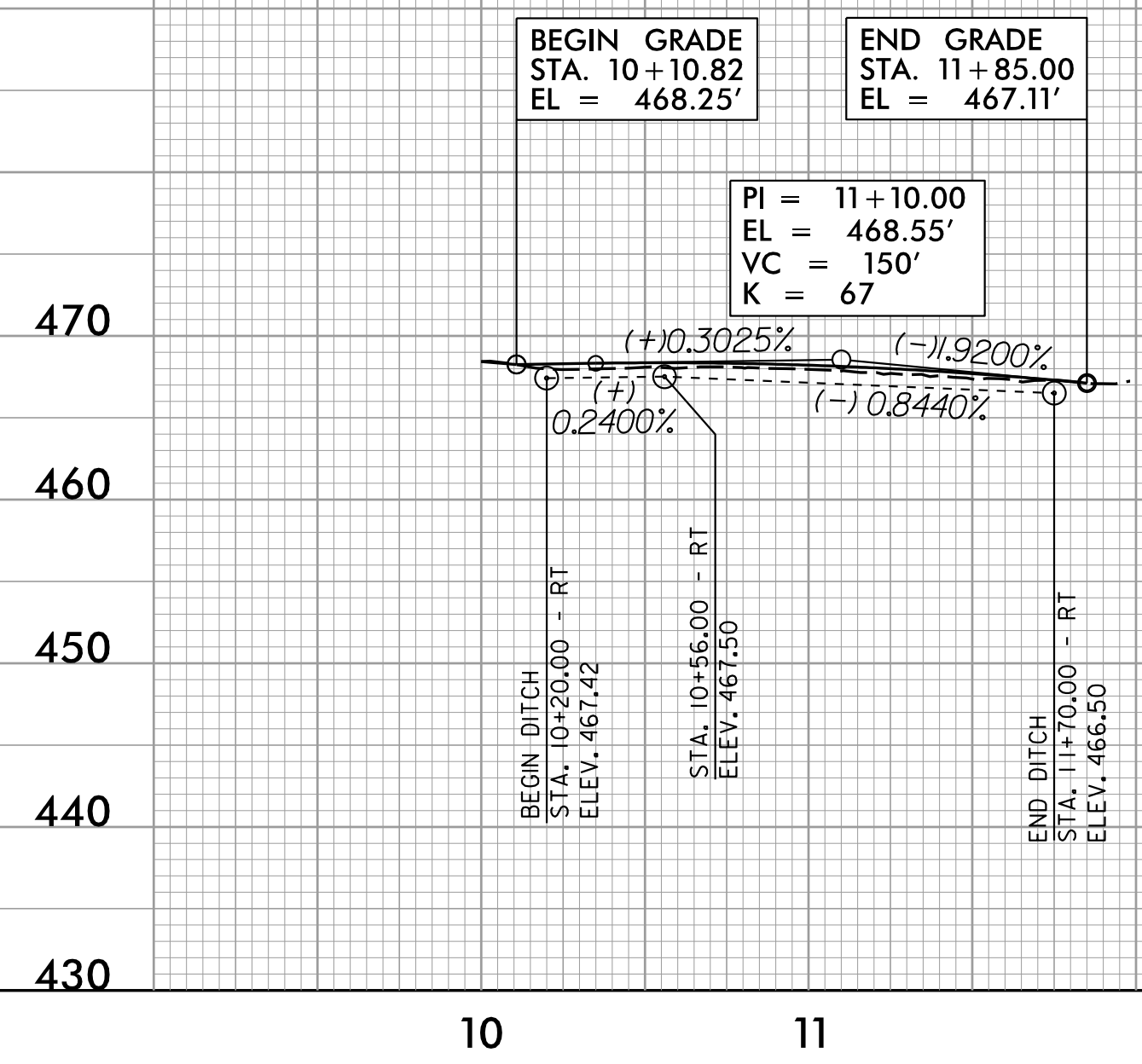
Prepared in the Office of: **M**
 MOTT MACDONALD 7621 Purfoy Road, Suite 115
 Fuquay-Varina, NC 27526
 www.mottmcc.com/americas

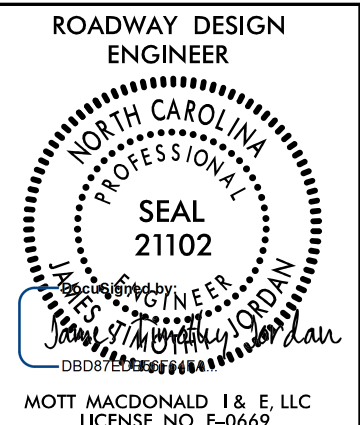



-L1-



-L2-



PROJECT REFERENCE	SHEET NO.
Y-5500ED	TMP-1
ROADWAY DESIGN ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	 MOTT MACDONALD 7621 Purfoy Rd, Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" – HIGHWAY DESIGN BRANCH– N.C. DEPARTMENT OF TRANSPORTATION – RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES
1135.01	CONES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS – LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS – TWO-LANE AND MULTI-LANE ROADWAYS

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TRAFFIC PATTERN ALTERATIONS

- A) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- B) PROVIDE PERMANENT SIGNING.
- C) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- D) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- E) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

- F) INSTALL TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING
SUNSET STREET	PAINT
MAIN STREET	

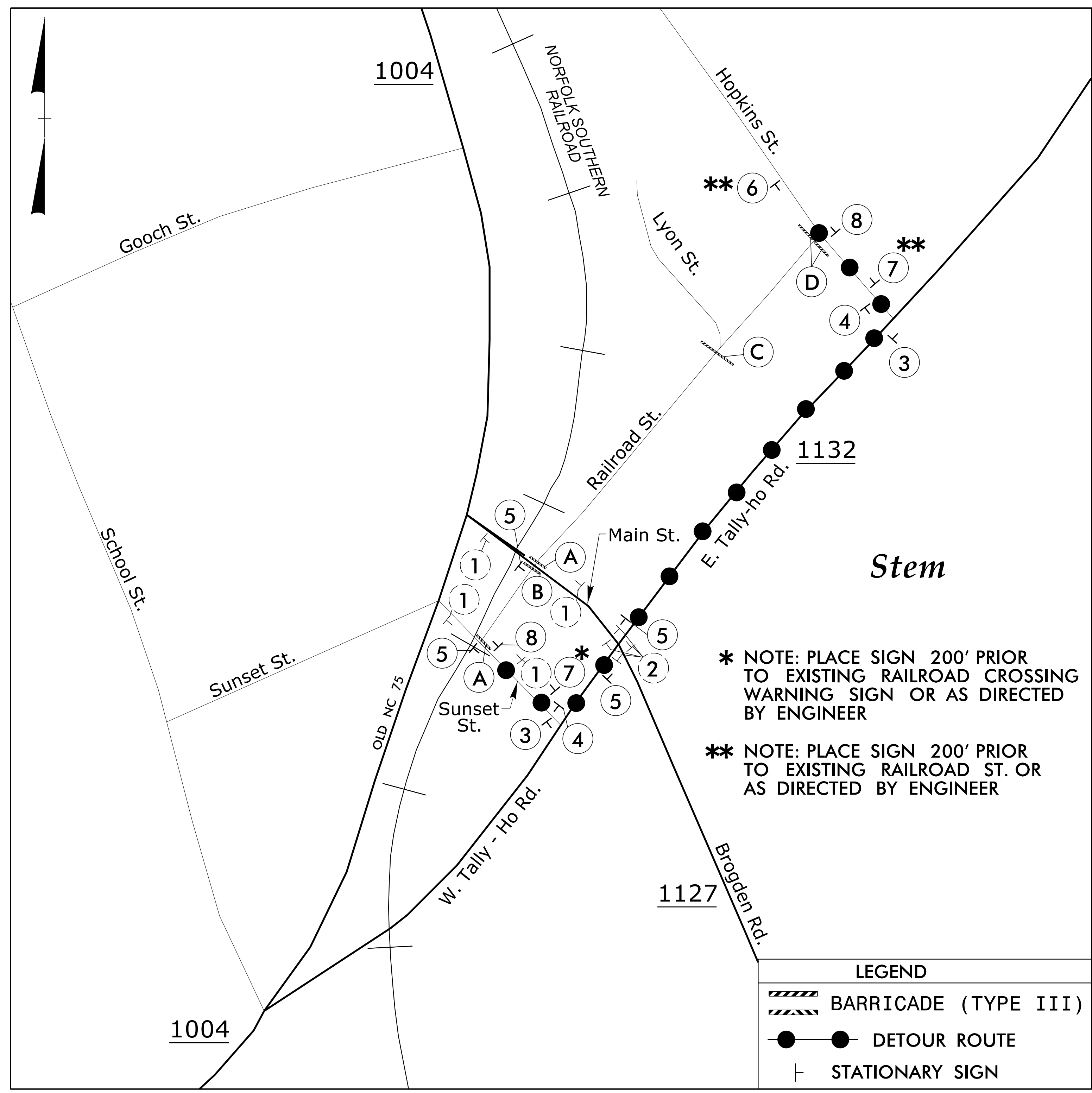
- G) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES

PHASING

- STEP 1: USING TMP-2, PERFORM THE FOLLOWING:
- INSTALL ALL ROAD CLOSURE AND DETOUR SIGNING INCLUDING, AND TYPE III BARRICADES
 - CLOSE RAILROAD STREET
 - PLACE TRAFFIC ONTO OFF-SITE DETOUR
 - PLACE DRUMS ON EDGE OF MAIN STREET AND SUNSET STREET AT THE INTERSECTIONS OF -L1- AND -L2- TO DELINEATE A TEMPORARY SHOULDER
- STEP 2: PAVE RAILROAD STREET AS SHOWN ON SHEET 4
INSTALL PROPOSED STOP SIGNS ON -L1- AND -L2- AT EACH APPROACH TO MAIN STREET AND SUNSET STREET
- STEP 3: USING ROADWAY STANDARD DRAWING NUMBER 1101.02, SHEET 1 OF 14, AND SHEET TMP-2, PERFORM THE FOLLOWING:
- COMPLETE INTERSECTION TIE IN FOR -L1- (RAILROAD STREET) AT SUNSET STREET
 - COMPLETE INTERSECTION TIE IN FOR -L1- (RAILROAD STREET) AT MAIN STREET
 - COMPLETE INTERSECTION TIE IN FOR -L2- (RAILROAD STREET) AT MAIN STREET
- STEP 4: REMOVE ALL TRAFFIC CONTROL SIGNING AND DEVICES AND RE-OPEN RAILROAD STREET

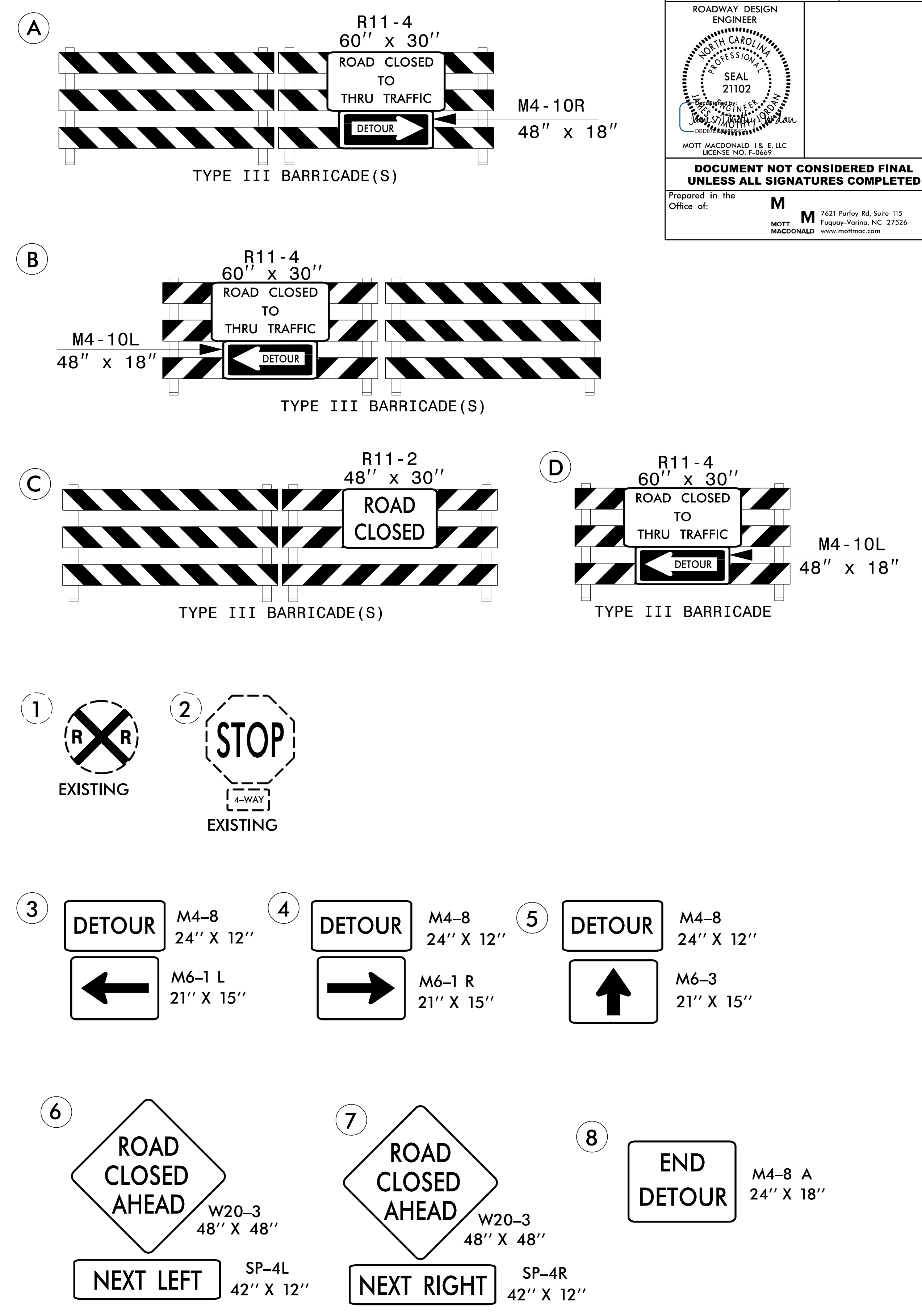
PAVEMENT MARKING

WHITE MINI SKIP (4") 34 LF



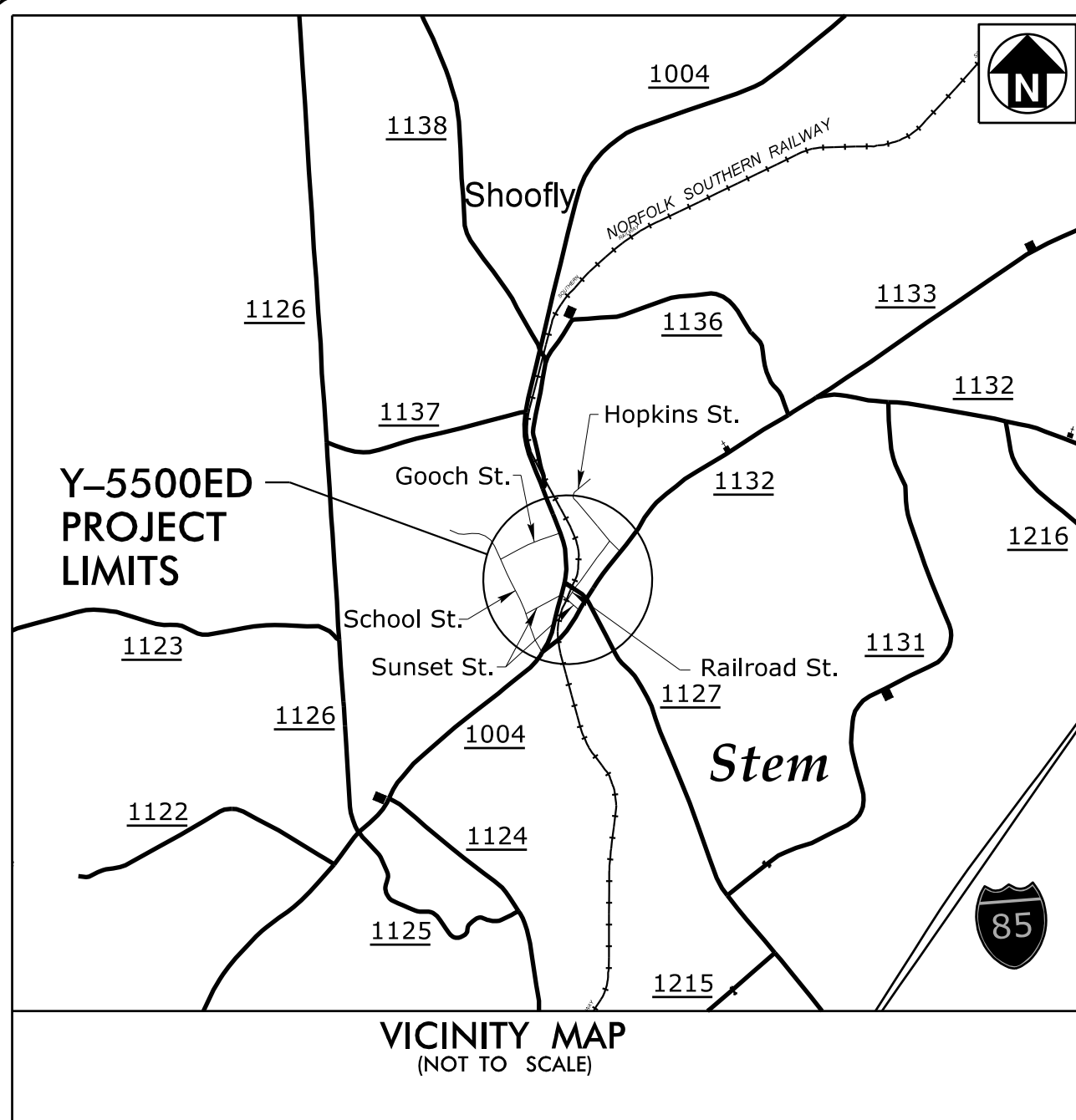
NOTES: 1. INSTALL SIGNS BEFORE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.

2. POSITION BARRICADES SUCH THAT THE STRIPES ARE SLOPED DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN.



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TIP PROJECT: Y-5500ED



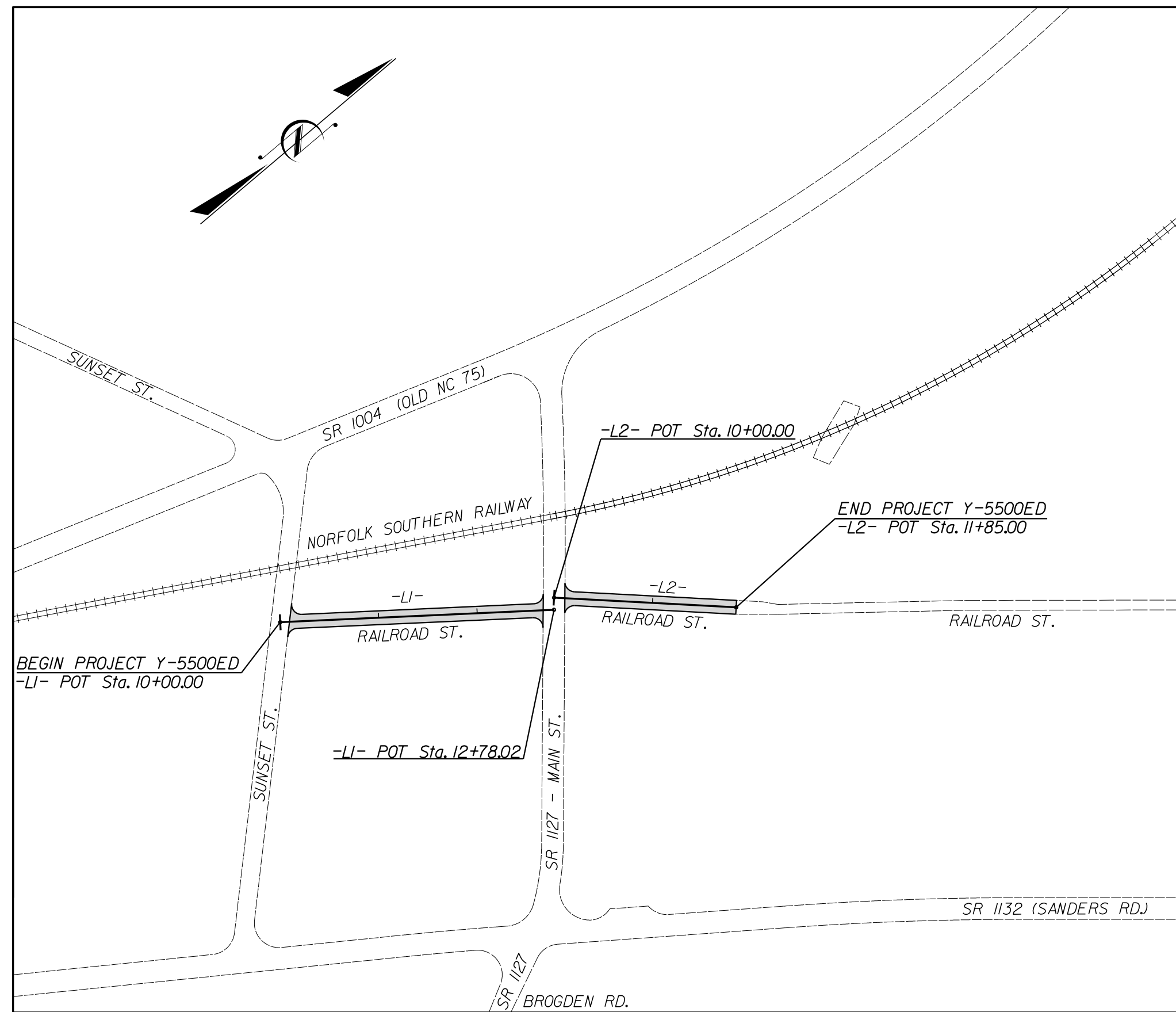
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

GRANVILLE COUNTY

LOCATION: RAILROAD STREET FROM SUNSET STREET TO 185 FEET NORTH OF MAIN STREET AND REMOVAL OF NORFOLK SOUTHERN CROSSING #734 896G IN STEM

TYPE OF WORK: PAVEMENT REMOVAL, PAVING, GRADING, PAVEMENT MARKINGS AND SIGNAGE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	Y-5500ED	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45533.1.20	0523009	PE	
45533.3.20	0523009	CONST	

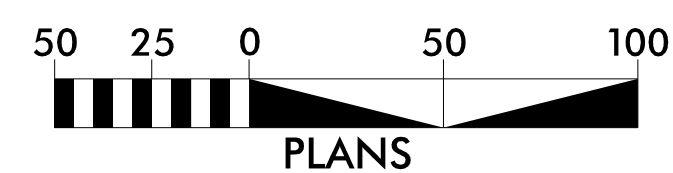
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	TSF
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSC
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSC
1633.02	Temporary Rock Silt Check Type-B	TRSC
	Wattle / Coir Fiber Wattle	WF
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	WF
1634.01	Temporary Rock Sediment Dam Type-A	TRSD
1634.02	Temporary Rock Sediment Dam Type-B	TRSD
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPIST
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPIST
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SB
	Tiered Skimmer Basin	SB
	Infiltration Basin	SB

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE



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

M M
MOTT MACDONALD

Prepared in the Office of:
MOTT MACDONALD

7621 Purfoy Road, Suite 115
Fuquay-Varina, NC 27526
(919) 552-2253
(919) 552-2254 (Fax)
www.mottmac.com
NC License No. F-0669

Designed by:

Eleni Riggs, PE
NAME

3056
LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

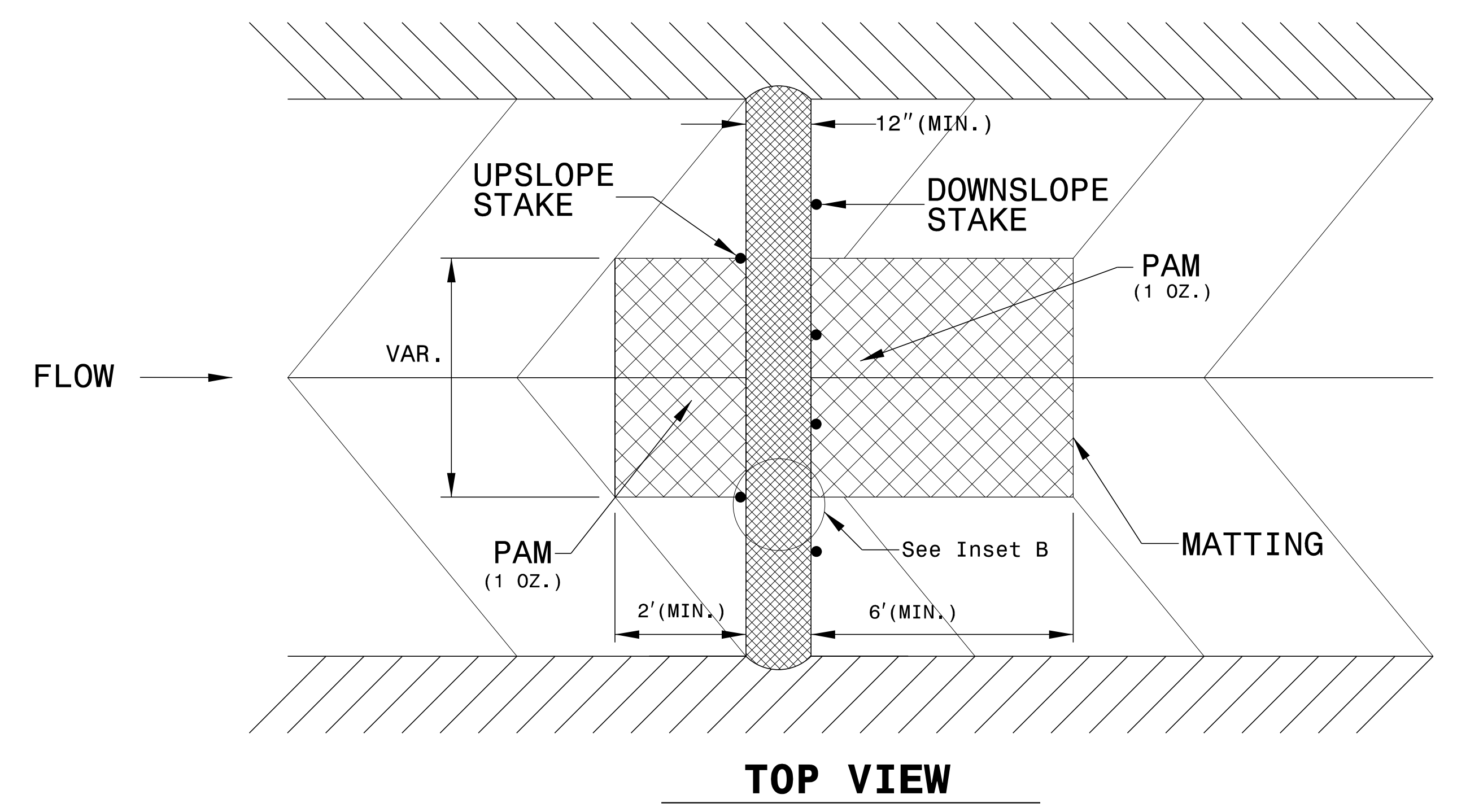
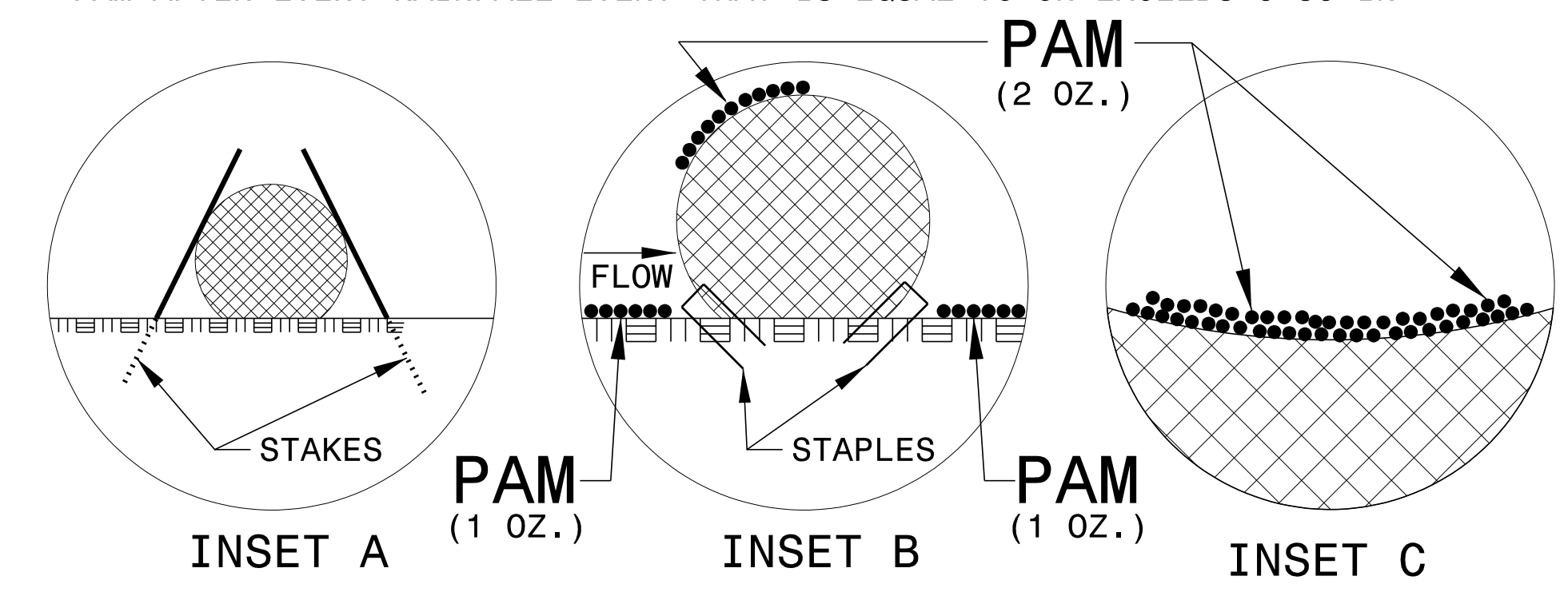
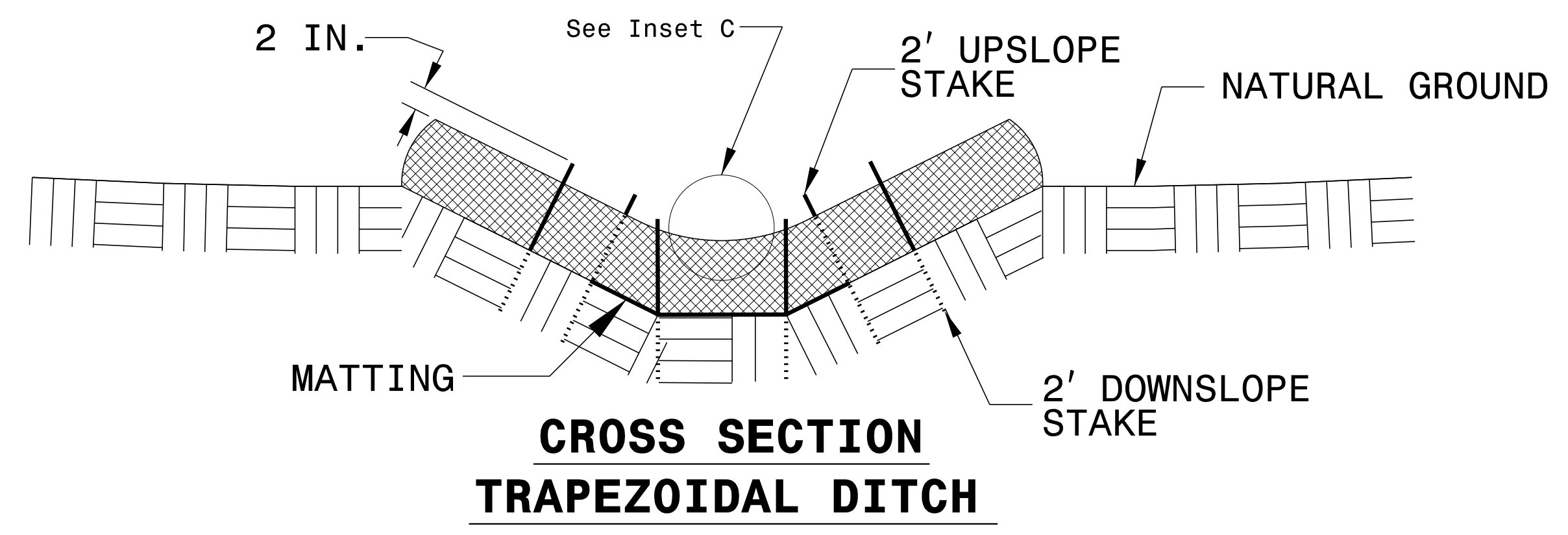
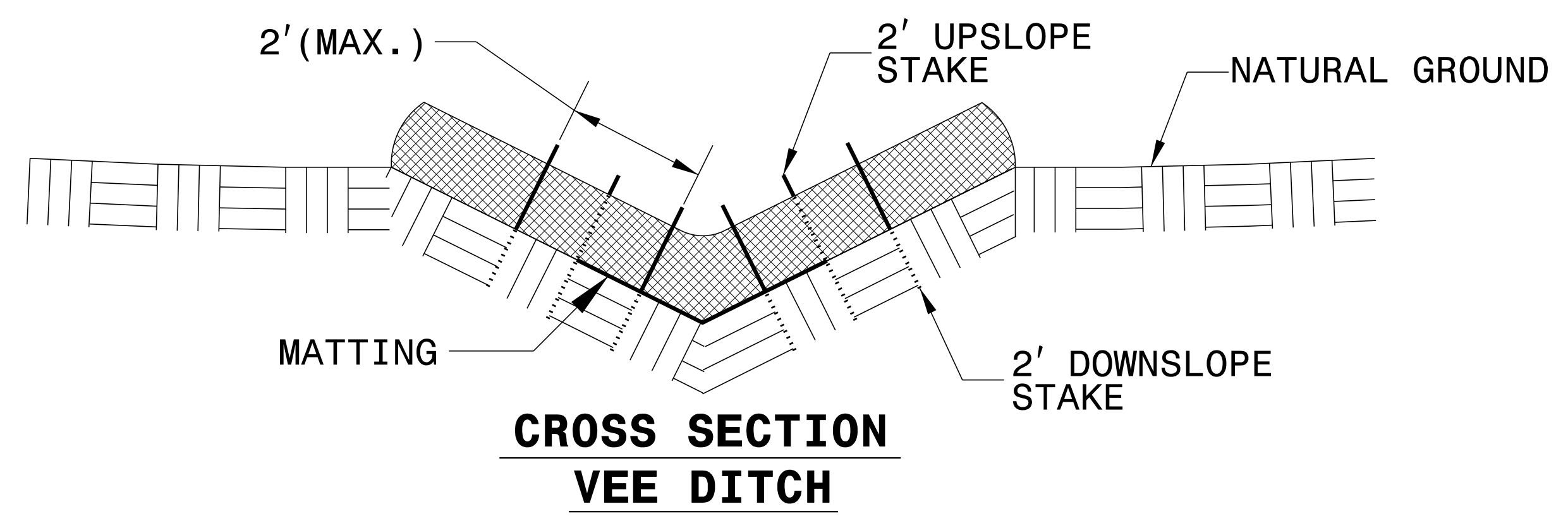
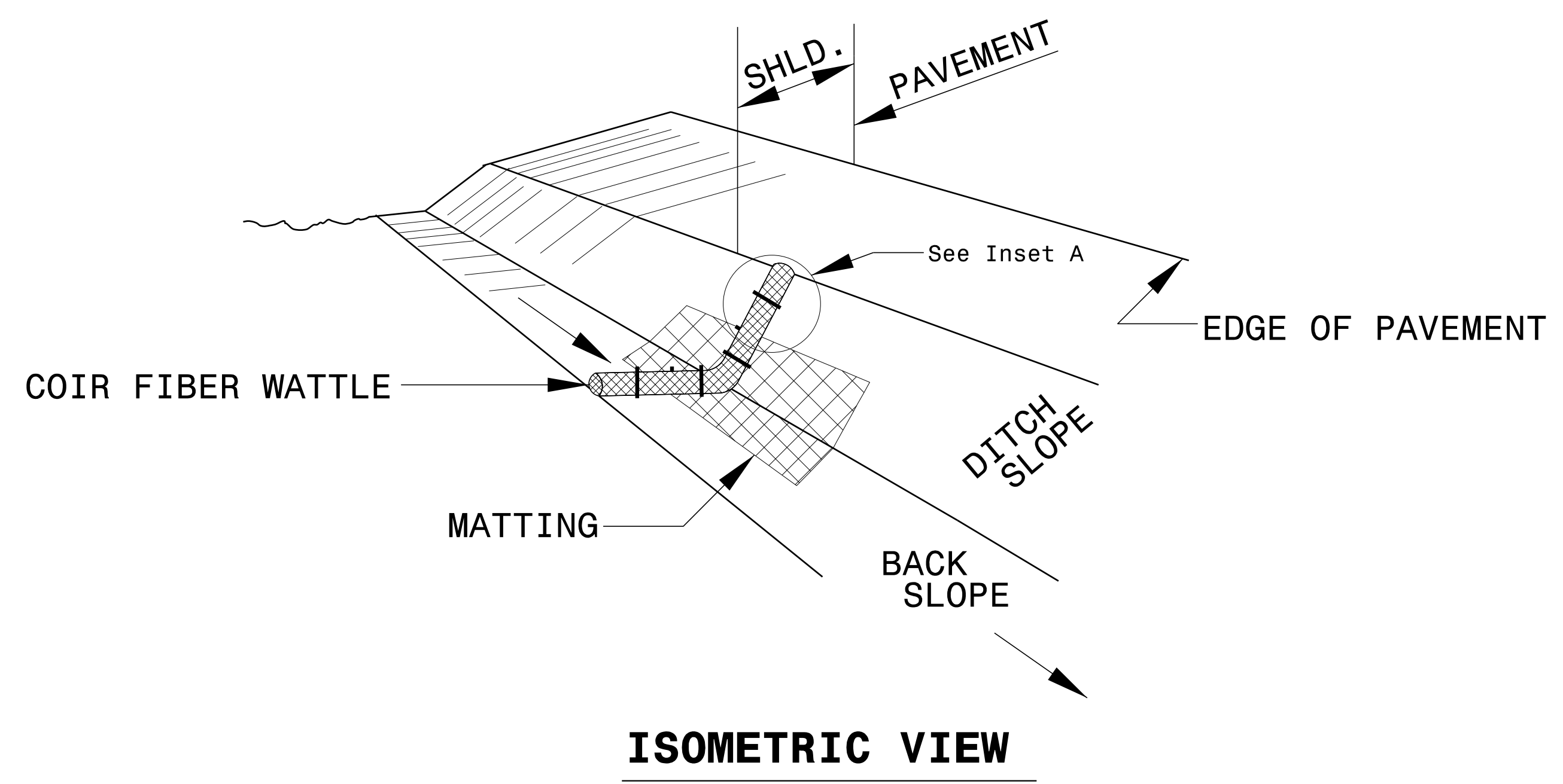
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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	1633.03 Temporary Rock Silt Check Type C
1630.02 Silt Basin Type A	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.06 Special Stilling Basin	1640.01 Coir Fiber Wattle
1631.01 Matting Installation	1645.01 Temporary Stream Crossing

PROJECT REFERENCE NO.	SHEET NO.
Y-5500ED	EC-2
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

- NOTES:
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

FALLS LAKE WATERSHED SOIL STABILIZATION TIMEFRAMES

PERMANENT GROUNDCOVER:
REQUIRED TO BE ESTABLISHED NO LATER THAN 7 DAYS
AFTER THE FINAL PHASE OF GRADING OF ANY PORTION
OF THE SITE.

TEMPORARY GROUNDCOVER:
SLOPE-SPECIFIC GROUNDCOVER REQUIREMENTS
UPON COMPLETION OF ANY PHASE OF GRADING

<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	NONE
SLOPES 3:1 OR FLATTER	10 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH NO SLOPE	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

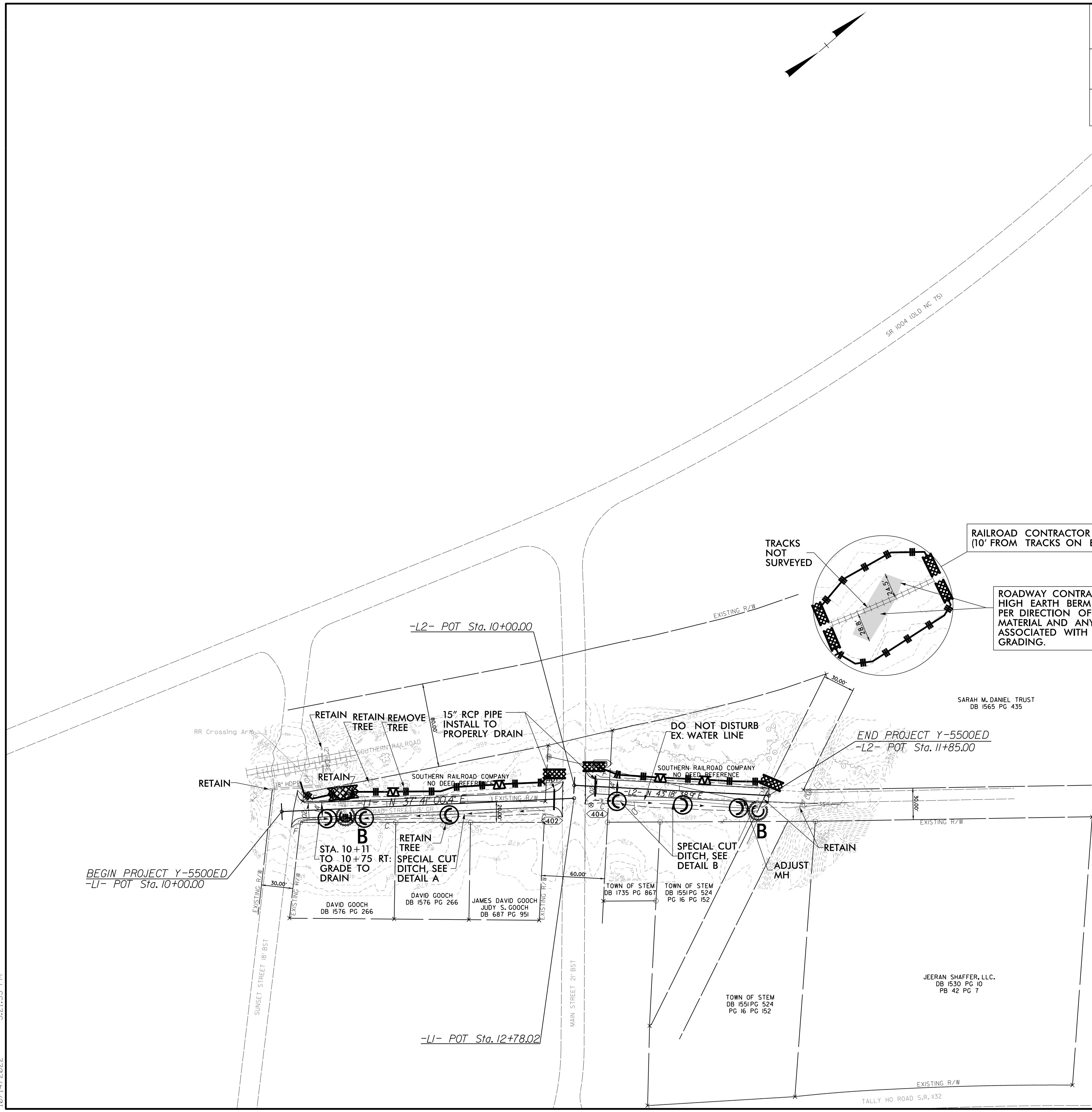
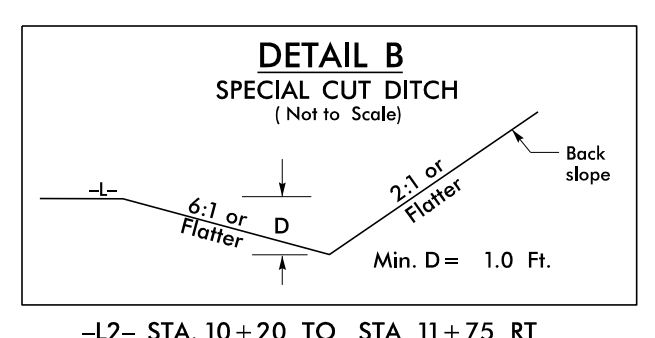
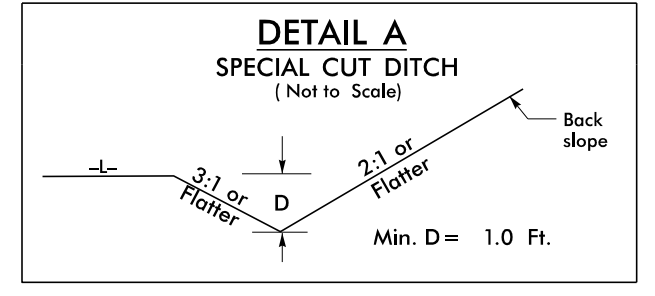
PROJECT REFERENCE	SHEET NO.
Y-5500ED	EC-4CONST-4
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	
LEVEL III CERTIFIED BY: ELENI M. RIGGS, PE CERTIFICATION NUMBER: 3056 ISSUED: OCTOBER 14, 2022	
Prepared in the Office of:	
 MOTT MACDONALD 7621 Purfoy Rd, Suite 115 Fayetteville, NC 27526 www.mottmac.com	
GRAPHIC SCALE	
 25' 0 25' 50'	

PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.

PERIMETER EC MEASURES SHALL BE INSTALLED DURING C & G PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4



RAILROAD CONTRACTOR SHALL REMOVE TIMBER FLANGES, PAVEMENT, SIGNS, AND CROSSING EQUIPMENT (10' FROM TRACKS ON EACH SIDE) AND STOCKPILE MATERIAL FOR REMOVAL BY ROADWAY CONTRACTOR

ROADWAY CONTRACTOR TO RE-ESTABLISH RAILROAD DITCH: GRADE TO DRAIN. CREATE 2' TO 3' HIGH EARTH BERM EACH SIDE OF TRACK WITH WASTE SOIL MATERIAL OUTSIDE THE DITCHLINE PER DIRECTION OF THE ENGINEER. ROADWAY CONTRACTOR TO REMOVE ALL NON-SOIL WASTE MATERIAL AND ANY PAVEMENT REMAINING MORE THAN 10' FROM THE TRACKS. ALL ACTIVITIES ASSOCIATED WITH THIS CROSSING REMOVAL WILL BE CONSIDERED INCIDENTAL TO LUMP SUM GRADING.

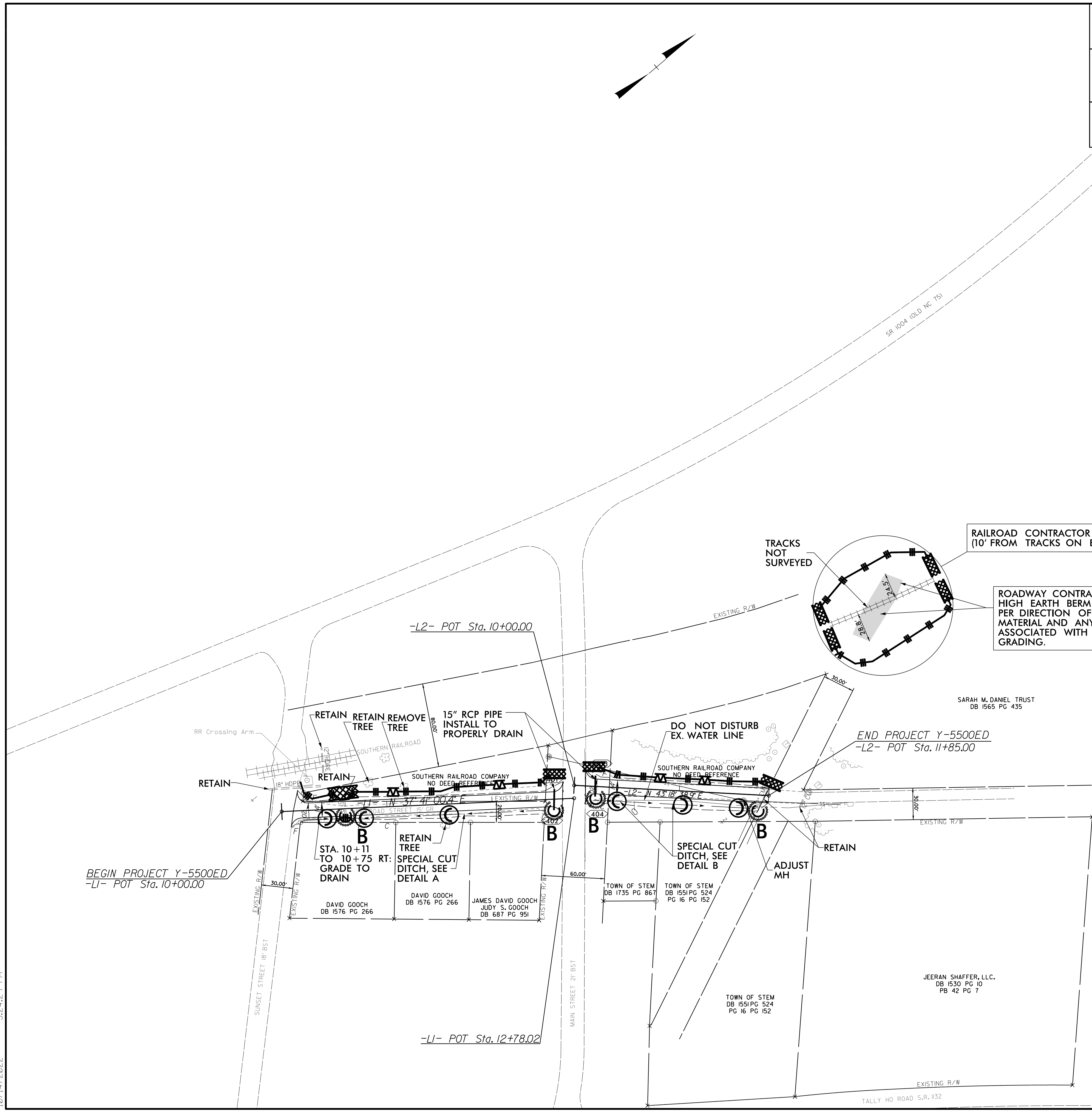
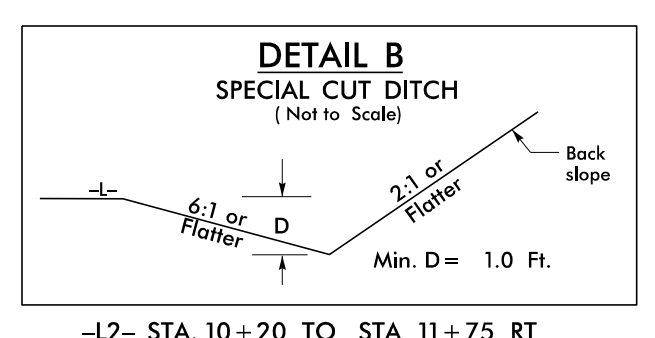
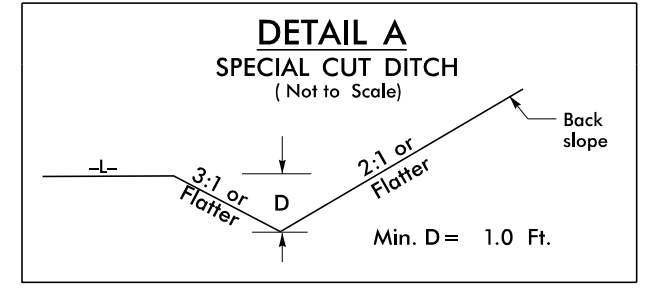
MOTT MACDONALD
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NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.

NOTE:
INSTALL MATTING FOR EROSION CONTROL IN ALL PROPOSED DITCH LINES EXCEPT WHERE PERMANENT LINERS ARE SPECIFIED ON THE PLANS OR DIRECTED OTHERWISE BY THE ENGINEER.

NOTE:
CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES IN ACCORDANCE WITH THE "SOIL STABILIZATION TIMEFRAMES", SEE EC-3.

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 4



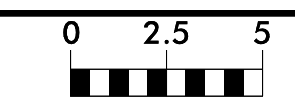
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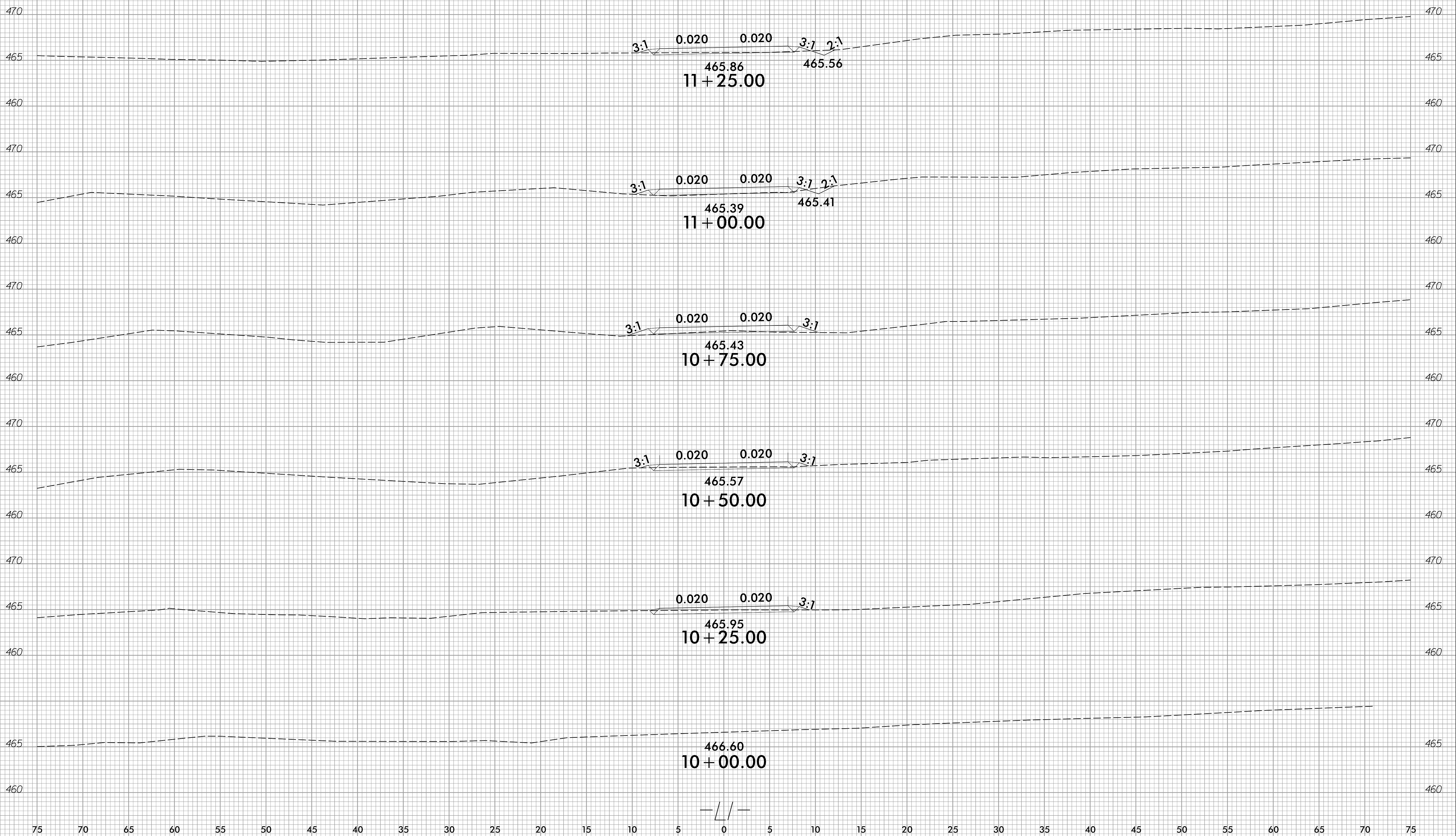
MATTING FOR EROSION CONTROL (STRAW)

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L1	11+25	12+50	RT	85
4	L2	10+56	11+70	RT	115
				TOTAL	200

MOTT MACDONALD
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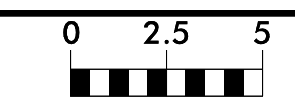


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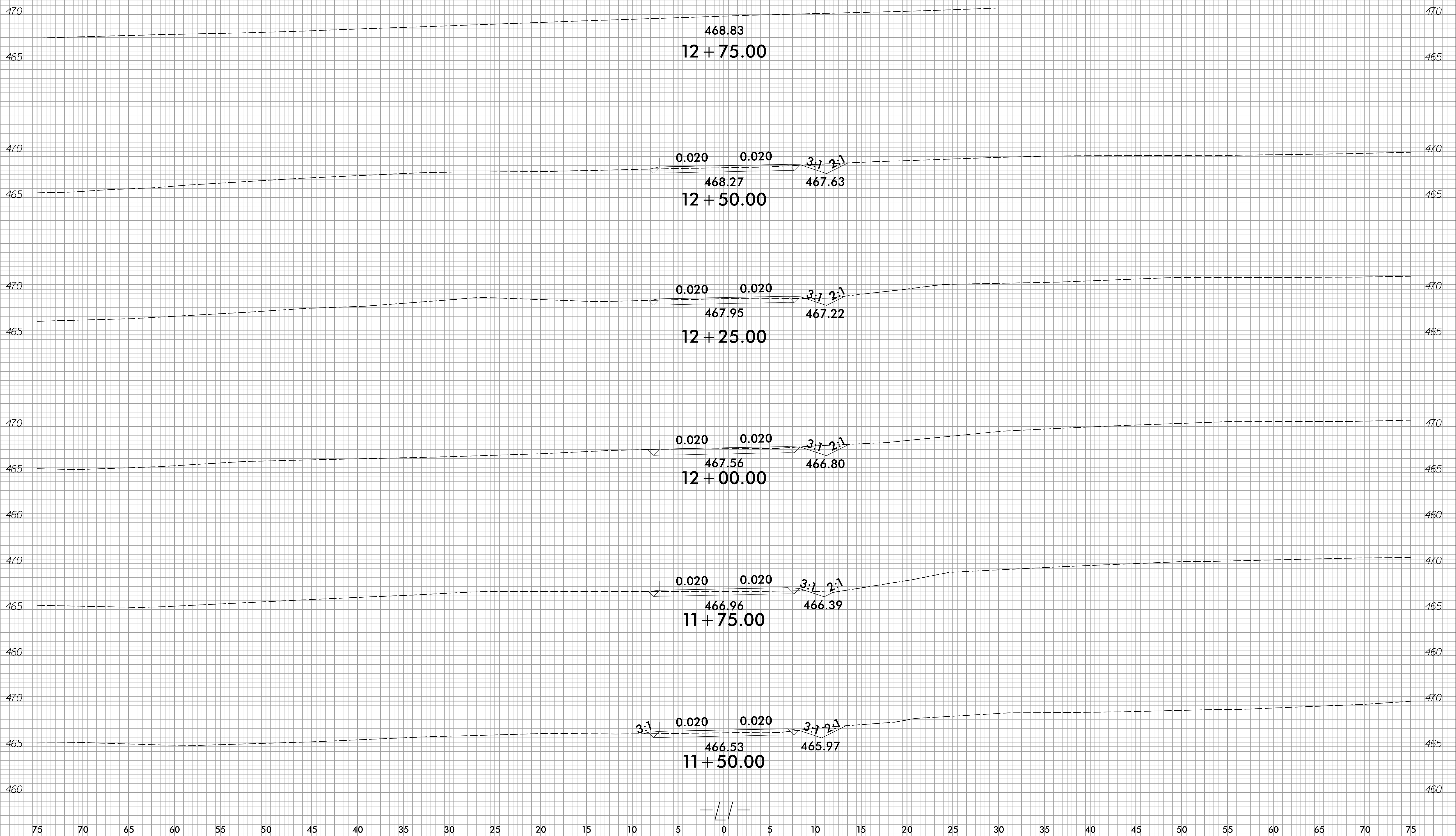


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 MCC60057

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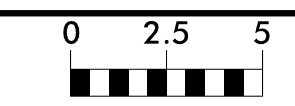


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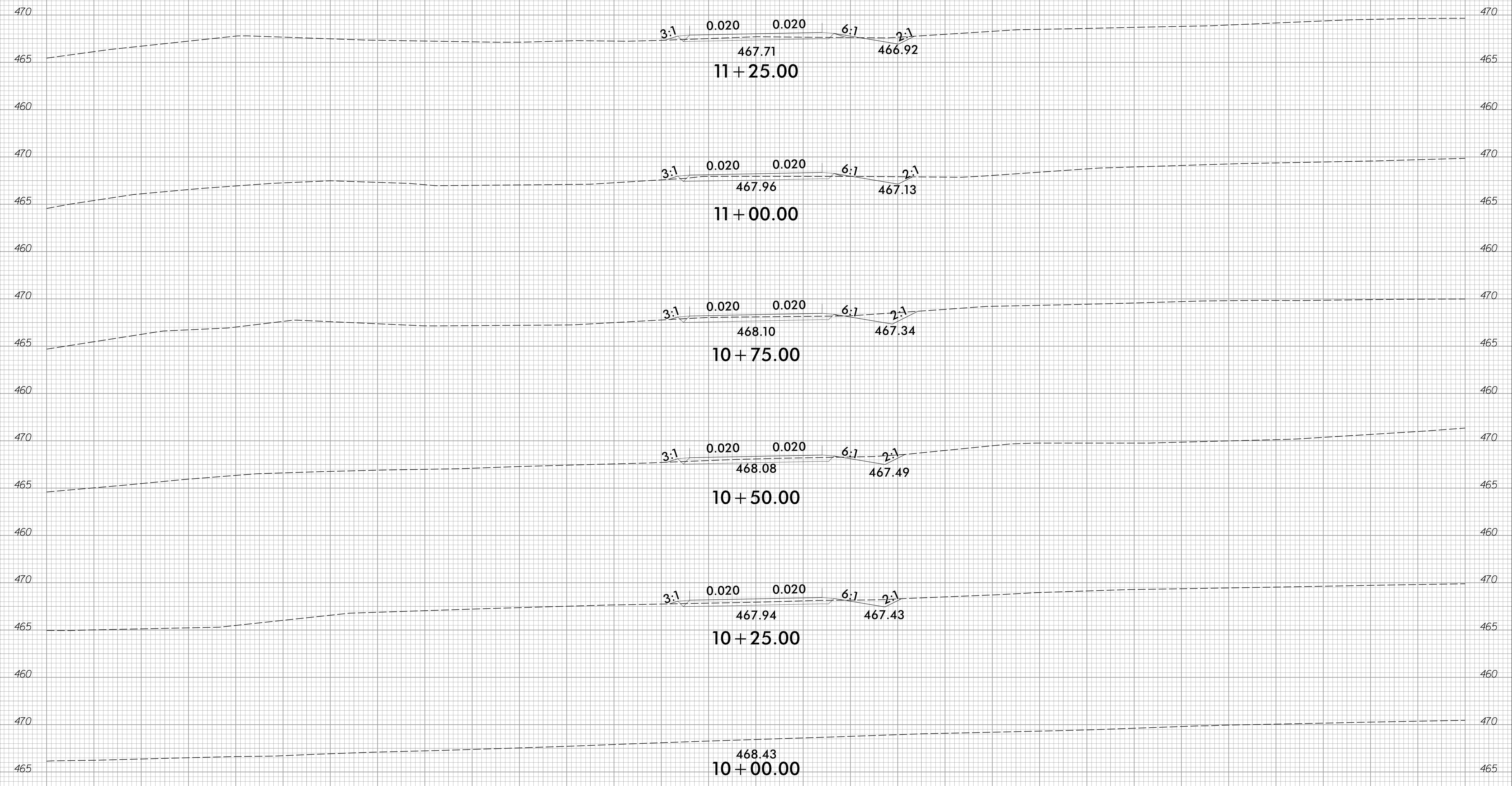


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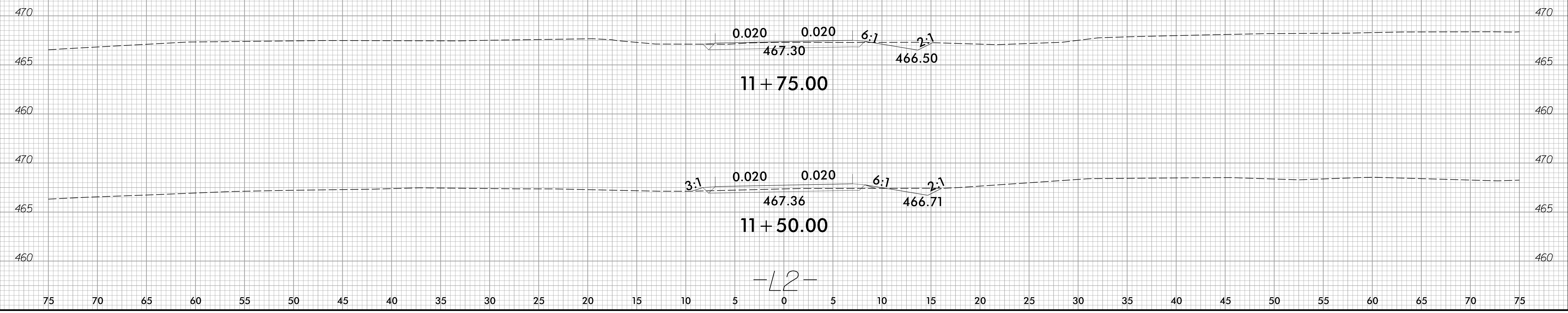


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