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TIP PROJECT: U-5850

CONTRACT: DG00636

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLANS
GUILFORD COUNTY

LOCATION: RANDLEMAN RD (SR1007) FROM ELMSLEY DR TO GLENDALE DR.

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN COVER SHEET
PMP-2	FINAL PAVEMENT MARKING SCHEDULE
PMP-3 THRU PMP-4	PAVEMENT MARKING DETAILS

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"
- N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C.,
DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

PAVEMENT MARKING GENERAL NOTES

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.

- A) INSTALL PAVEMENT MARKINGS ON THE FINAL SURFACE
AS FOLLOWS:

ROAD NAME	MARKING
RANDLEMAN ROAD, SR 1007 [L]	THERMOPLASTIC
NESTLEWAY DRIVE [Y]	THERMOPLASTIC
WEST ELMSLEY DRIVE [Y]	THERMOPLASTIC

- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) REPLACE ANY PAVEMENT MARKINGS BEYOND THE PROJECT LIMITS DAMAGED BY THE
CONTRACTORS' OPERATIONS DURING CONSTRUCTION.
- E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED
AS DIRECTED BY THE ENGINEER.
- F) REFER TO APPROVED SIGNAL PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED
INTERSECTIONS.
- G) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED
IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS
AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR
USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

TIP NO.	SHEET NO.
U-5850	PMP-1
APPROVED: Digitally signed by Sean C. Stephens 8E63BFAD769C43E...	
DATE: 6/11/2025	
SEAL	
Seal of Sean C. Stephens, Professional Engineer, North Carolina, License No. 043891	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PLAN PREPARED BY:
STV Engineers, Inc.

SEAN C. STEPHENS, PE	TRAFFIC ENGINEER
CLARK GROVES	TRANSPORTATION DESIGNER

stven
STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

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stv

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Charlotte, NC 28203
NC License Number F-0991

TIP NO.	SHEET NO.
U-5850	PMP-2
APPROVED: Sean C. Stephens	
DATE: 6/11/2025	
SEAL	
Professional Engineer Seal: Sean C. Stephens, License No. 043891, State of North Carolina	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
	4" THERMOPLASTIC (90 MILS)
T1	WHITE EDGE LINE
T2	WHITE SOLID LANE LINE
T3	10' WHITE SKIP
T4	3' - 9' / SP WHITE MINISKIP
T11	YELLOW SINGLE CENTER
T12	10' YELLOW SKIP
T13	YELLOW DOUBLE CENTER
	8" THERMOPLASTIC (90 MILS)
T41	WHITE DIAGONAL
T42	YELLOW DIAGONAL
T46	WHITE CROSSWALK LINE
	24" THERMOPLASTIC (90 MILS)
T61	WHITE STOPBAR
	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
T70	LEFT TURN ARROW
T71	RIGHT TURN ARROW
T72	STRAIGHT ARROW
T73	COMBO LEFT / STRAIGHT ARROW
T74	COMBO RIGHT / STRAIGHT ARROW
T76	COMBO LEFT / RIGHT / STRAIGHT ARROW
	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
T100	ALPHANUMERIC CHARACTERS

st^v

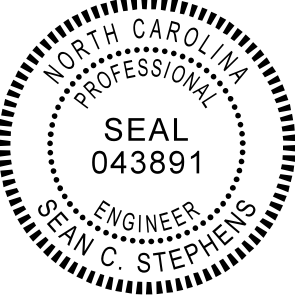
STV Engineers, Inc.
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Charlotte, NC 28203
NC License Number F-0991

TIP NO.
U-5850

SHEET NO.
PMP-3

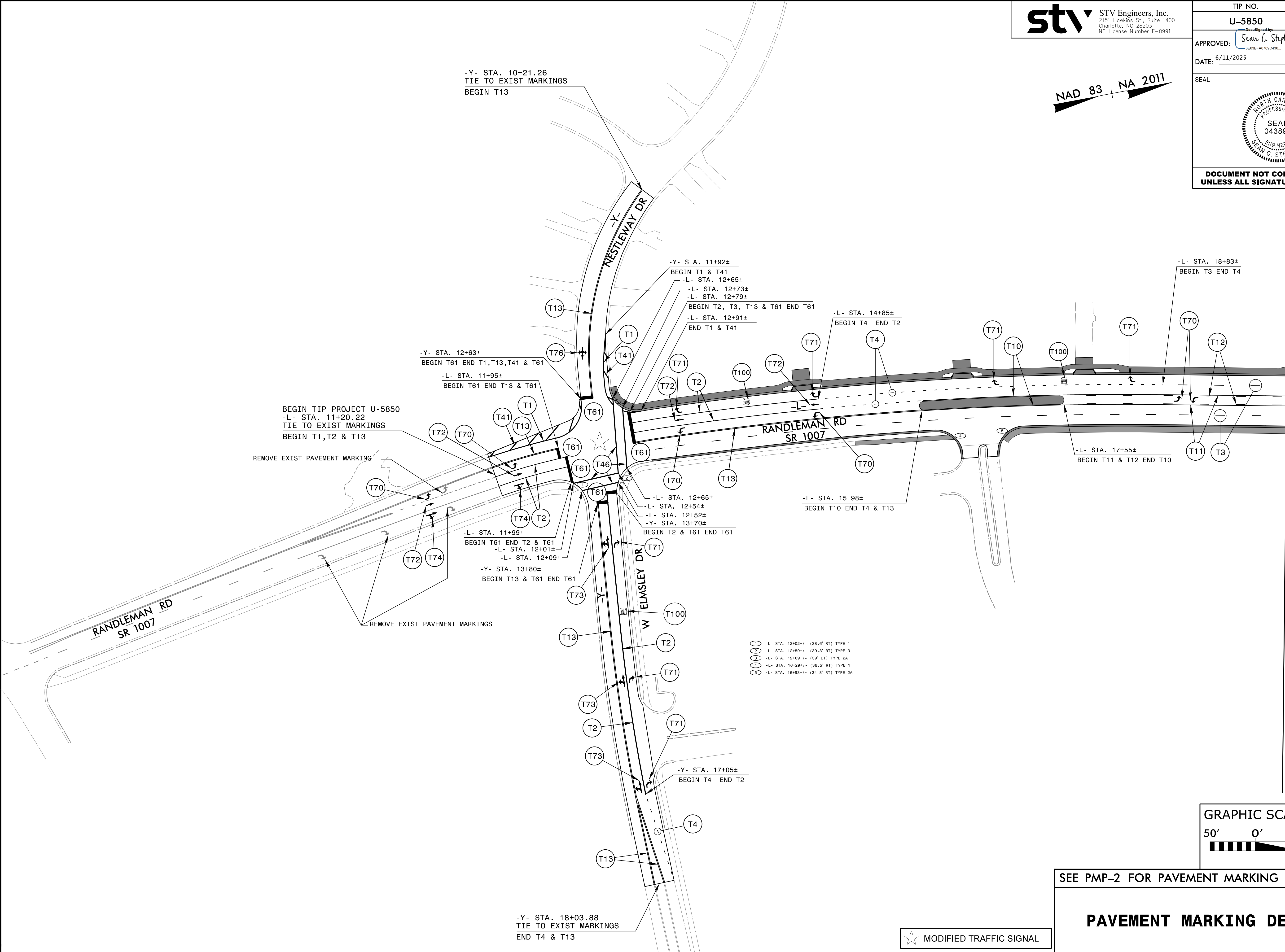
APPROVED: *Sean C. Stephens*
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DATE: 6/11/2025

SEAL


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -L- STA. 20+00 (SHEET PMP-4)

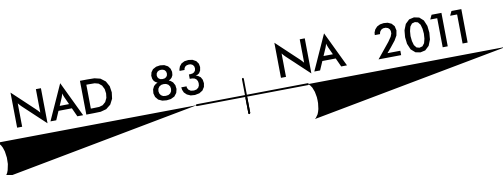


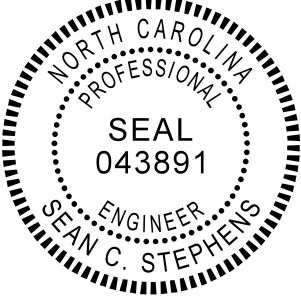
SEE PMP-2 FOR PAVEMENT MARKING SCHEDULE

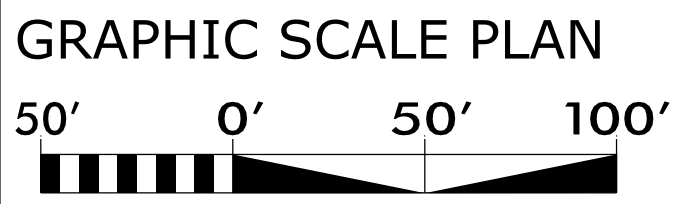
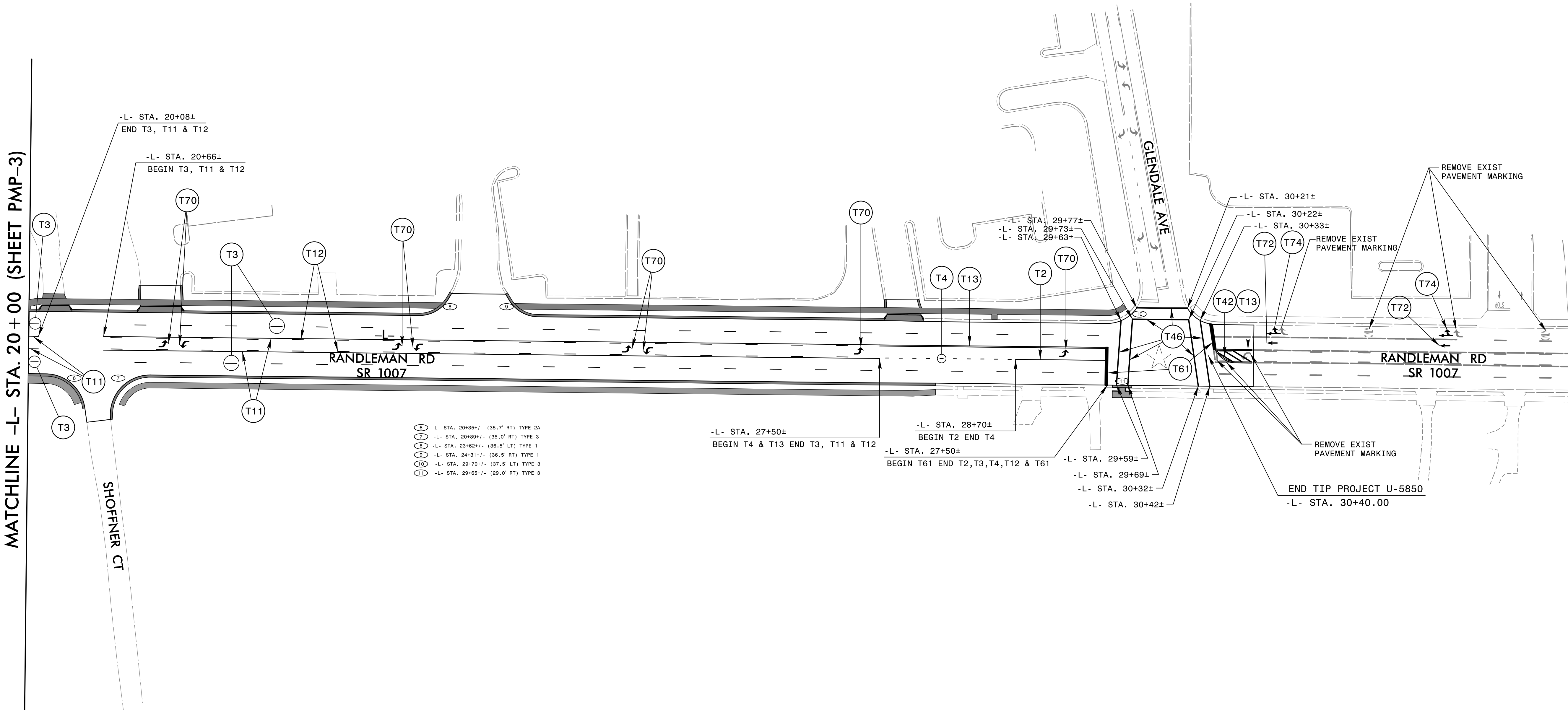
PAVEMENT MARKING DETAIL

★ MODIFIED TRAFFIC SIGNAL

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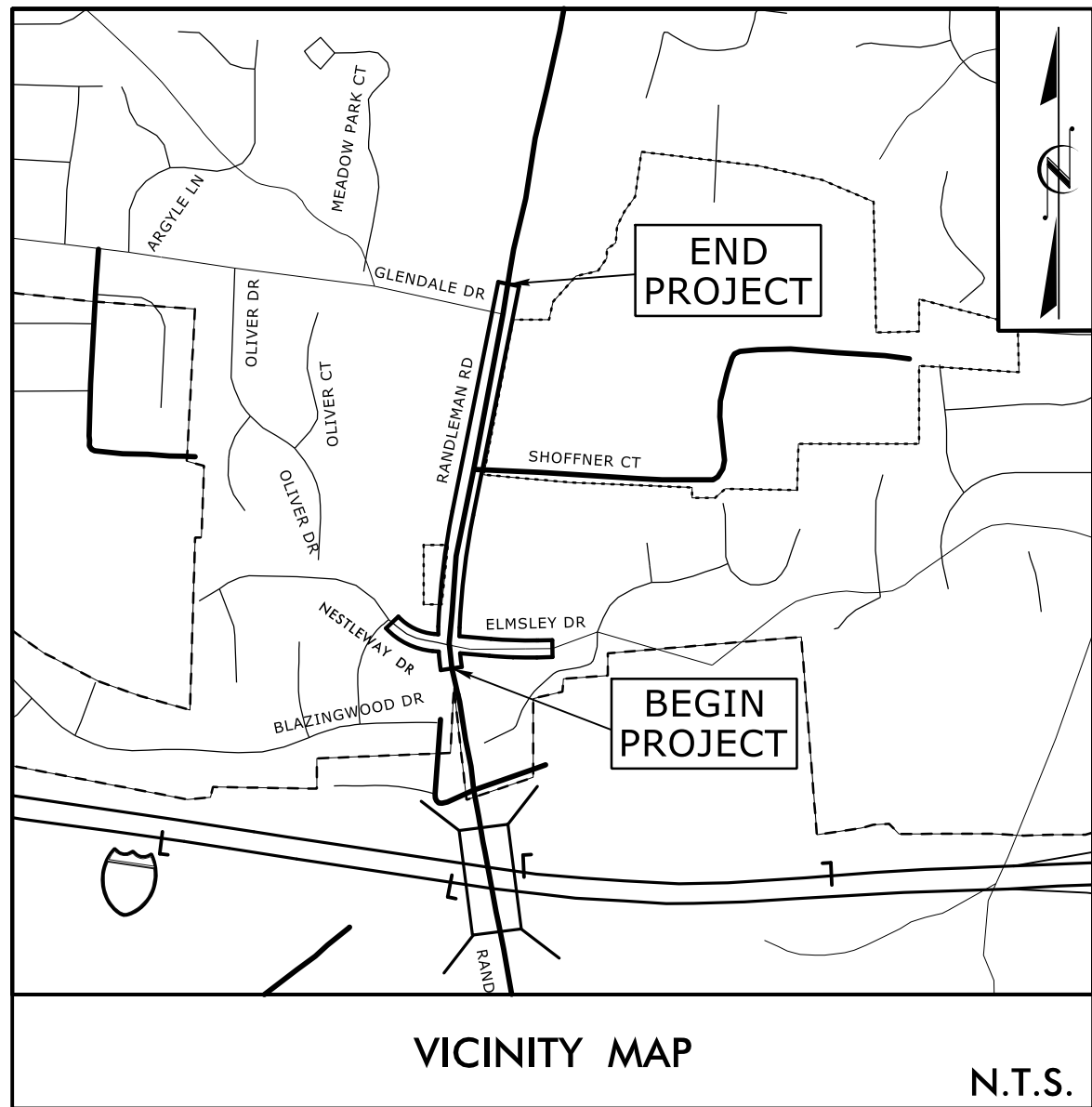
TIP NO.	SHEET NO.
U-5850	PMP-4
APPROVED: <i>Sean C. Stephens</i> BE63BFAD769C438...	
DATE: 6/11/2025	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SEE PMP-2 FOR PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING DETAIL

TIP PROJECT: U-5850

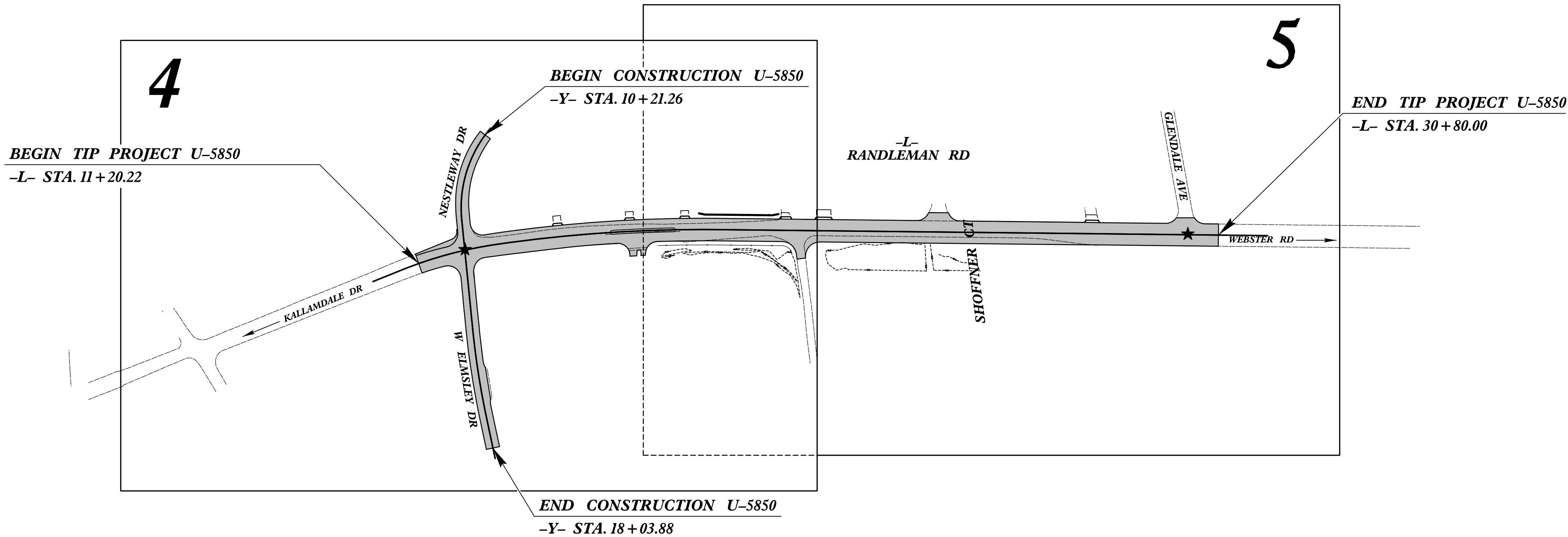
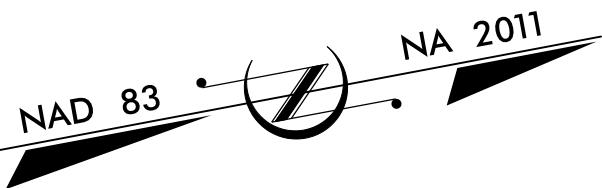


FINAL PLANS

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

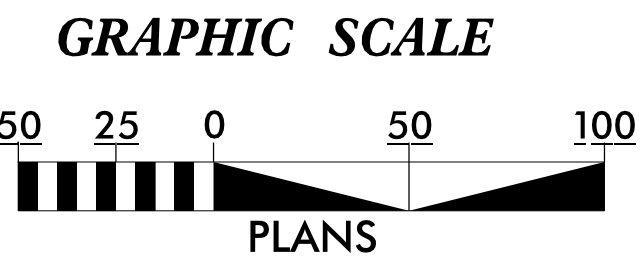
LOCATION: SR 1007 (RANDLEMAN RD.) FROM ELSMSLEY DR.
TO GLENDALE DR. IN GREENSBORO
TYPE OF WORK: GRADING, PAVING, & DRAINAGE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5850	EC-1	9
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
U-5850		P.E.	
U-5850		R/W & UTILITY	
U-5850		CONSTRUCTION	



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

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 APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000
GENERAL CONSTRUCTION PERMIT ISSUED BY THE NORTH
CAROLINA DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.



Prepared in the Office of:
STV ENGINEERS, INC.
2151 HAWKINS STREET, SUITE 1400
CHARLOTTE, NC 28203

Designed by:
HALEY SMITH, EIT 4688
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "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.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.
U-5850

SHEET NO.
EC-1A

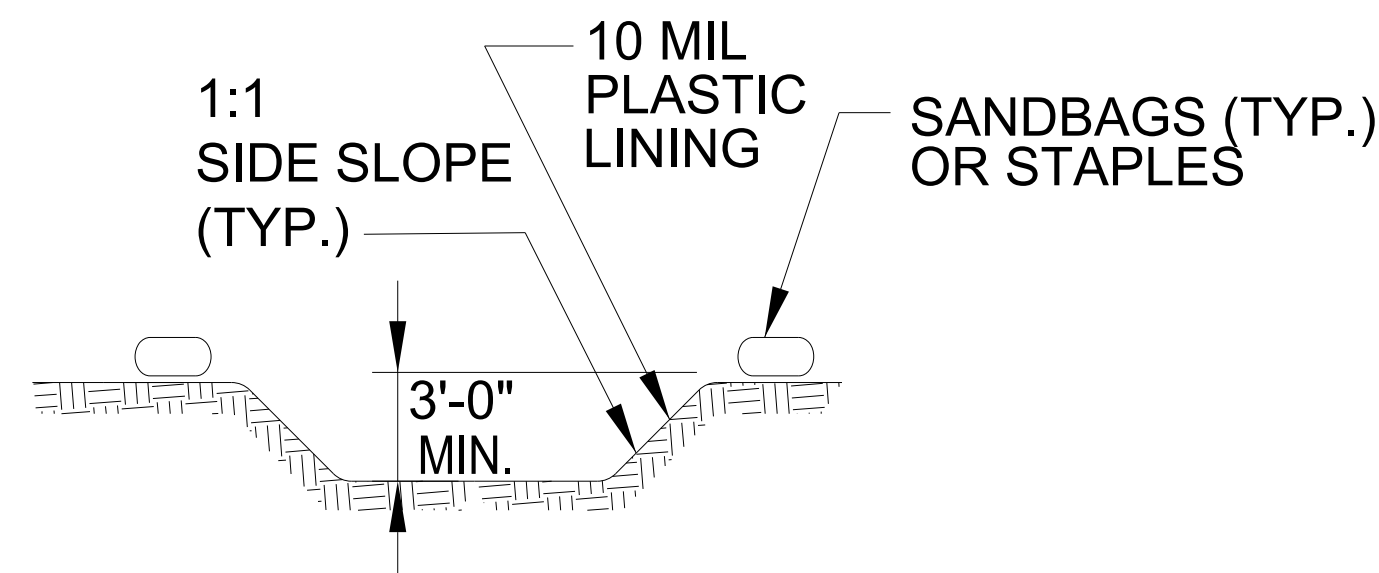
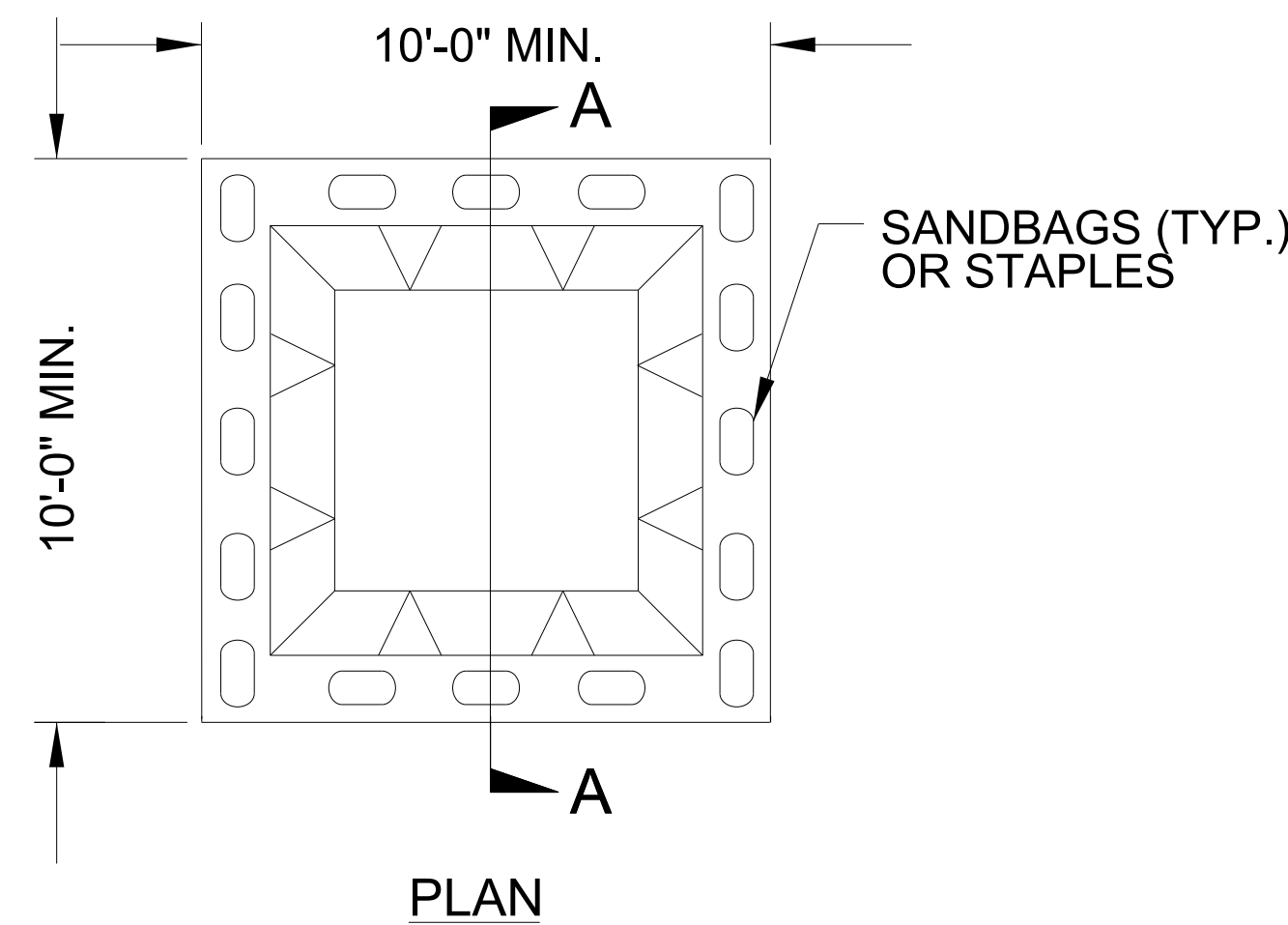
stv

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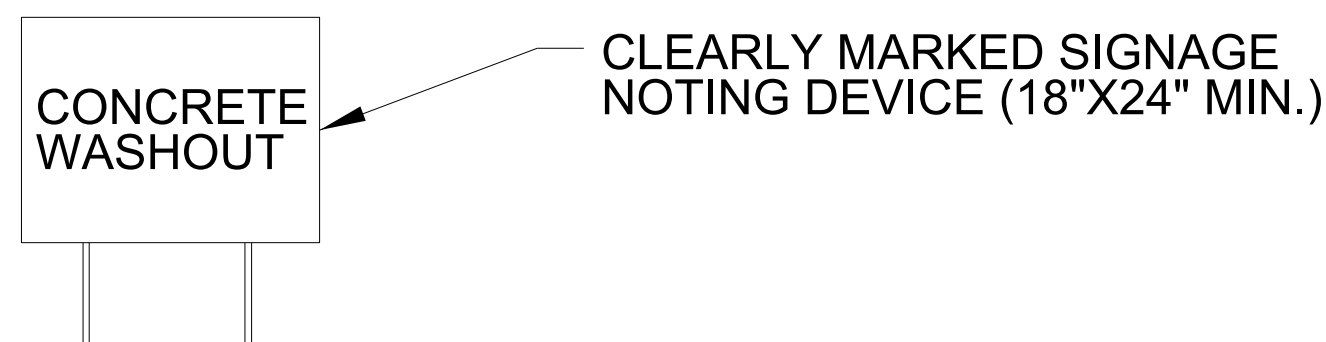
EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		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		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

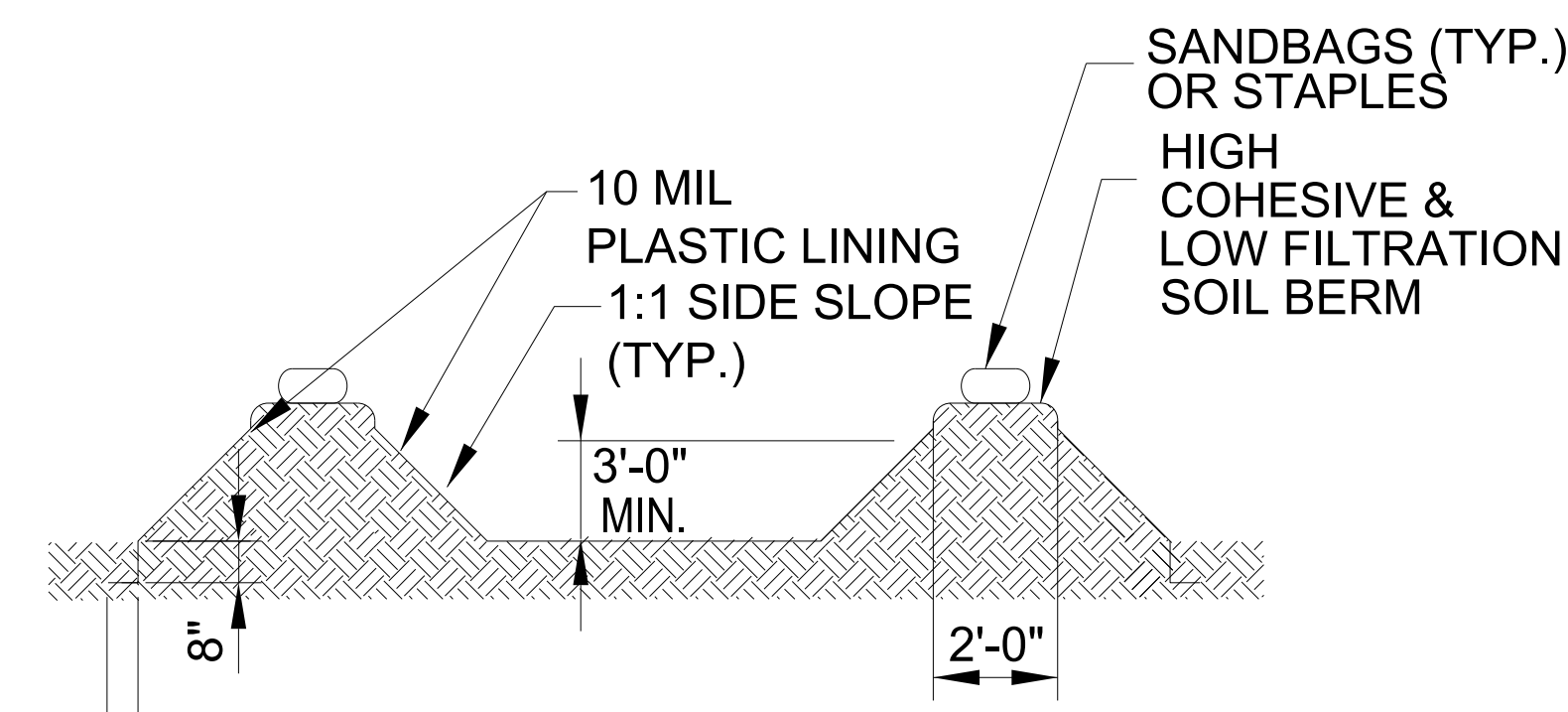
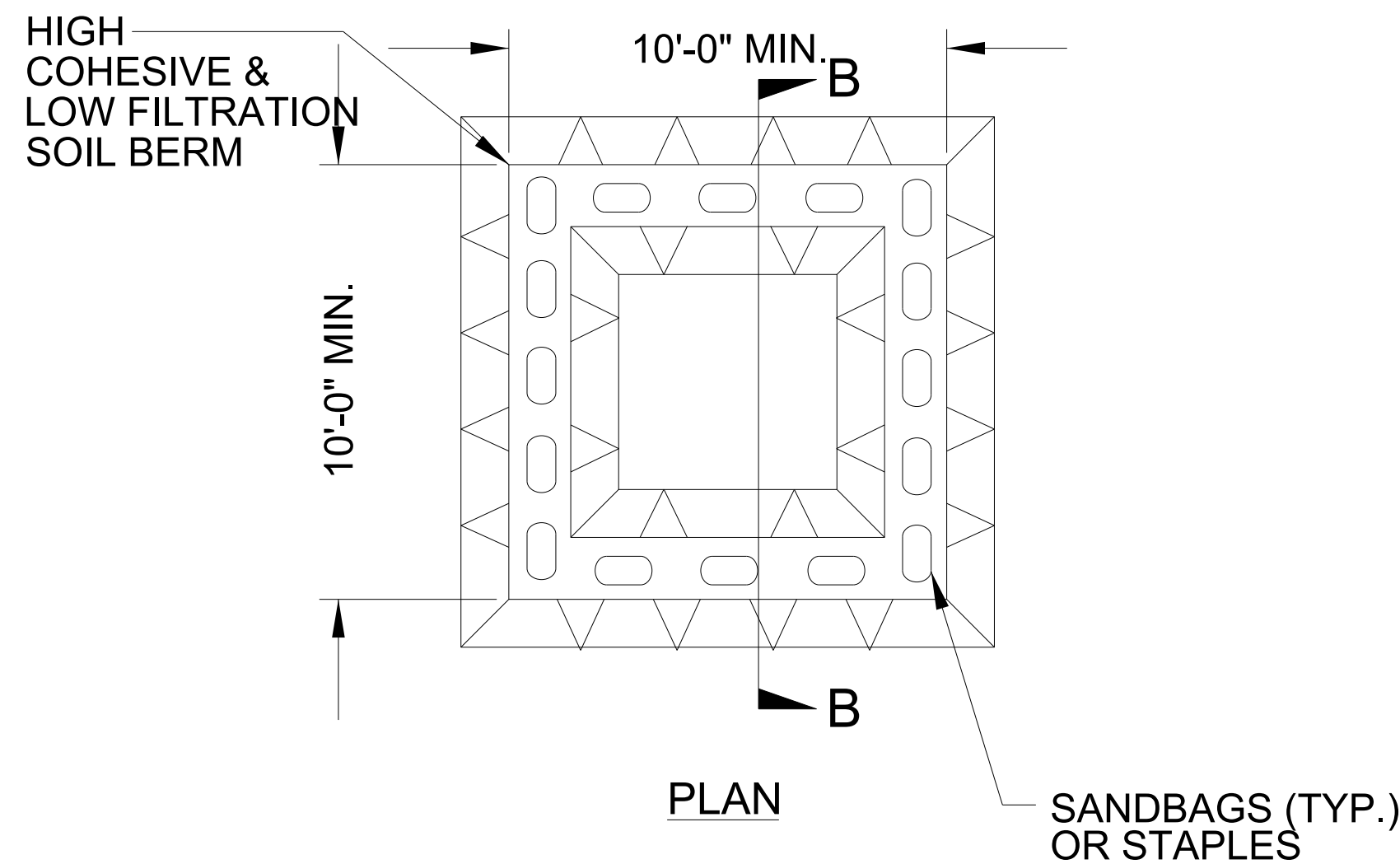


SECTION A-A

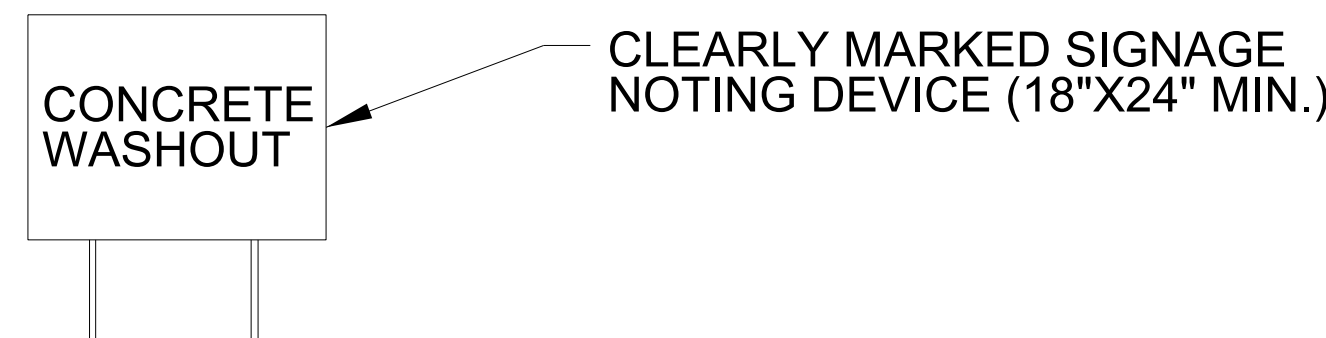


BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- 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.



SECTION B-B



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.

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SLOPE MATTING FOR EROSION CONTROL

[illegible][illegible]

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
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 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

6/11/2025
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NOTE: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

MATCHLINE -L- 20+00.00
SEE SHEET EC-5

NOTE: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

PROJECT REFERENCE NO.		SHEET NO.	
U-5850		EC-6/CONST 4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

NAD 83 + NA 2011

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

Place Matting for Erosion Control
on Slope as Work Allows.
-L- 16+92 RT to -L- 20+00 RT

NOTE:
ADD J-HOOK AT END OF EACH SILT FENCE
SECTIONS TO PREVENT RUNOFF BYPASS

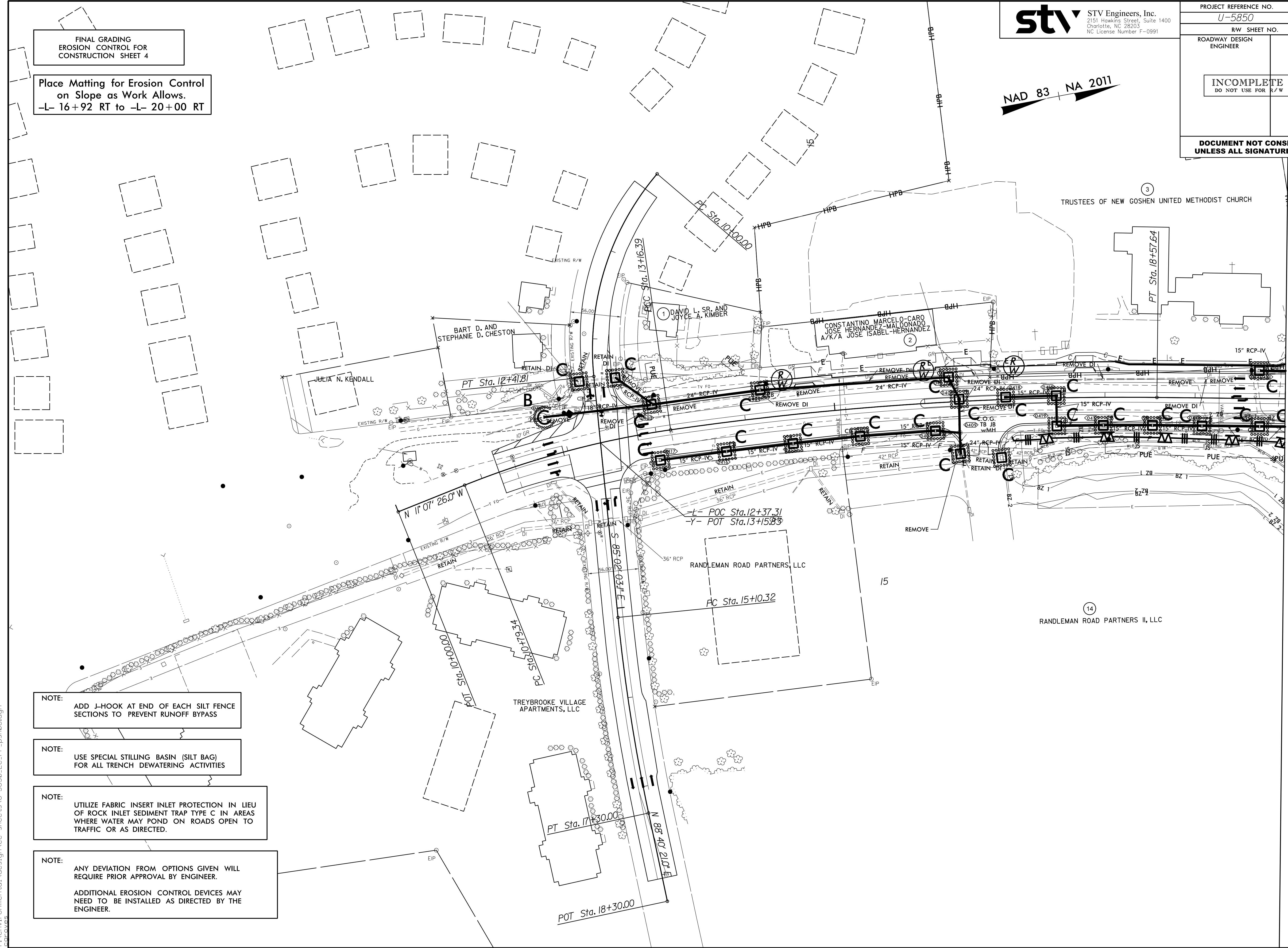
NOTE:
USE SPECIAL STILLING BASIN (SILT BAG)
FOR ALL TRENCH DEWATERING ACTIVITIES

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU
OF ROCK INLET SEDIMENT TRAP TYPE C IN AREAS
WHERE WATER MAY POND ON ROADS OPEN TO
TRAFFIC OR AS DIRECTED.

NOTE:
ANY DEVIATION FROM OPTIONS GIVEN WILL
REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY
NEED TO BE INSTALLED AS DIRECTED BY THE
ENGINEER.

6/11/2025
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PROJECT



MATCHLINE -L- 20+00.00
SEE SHEET EC-7

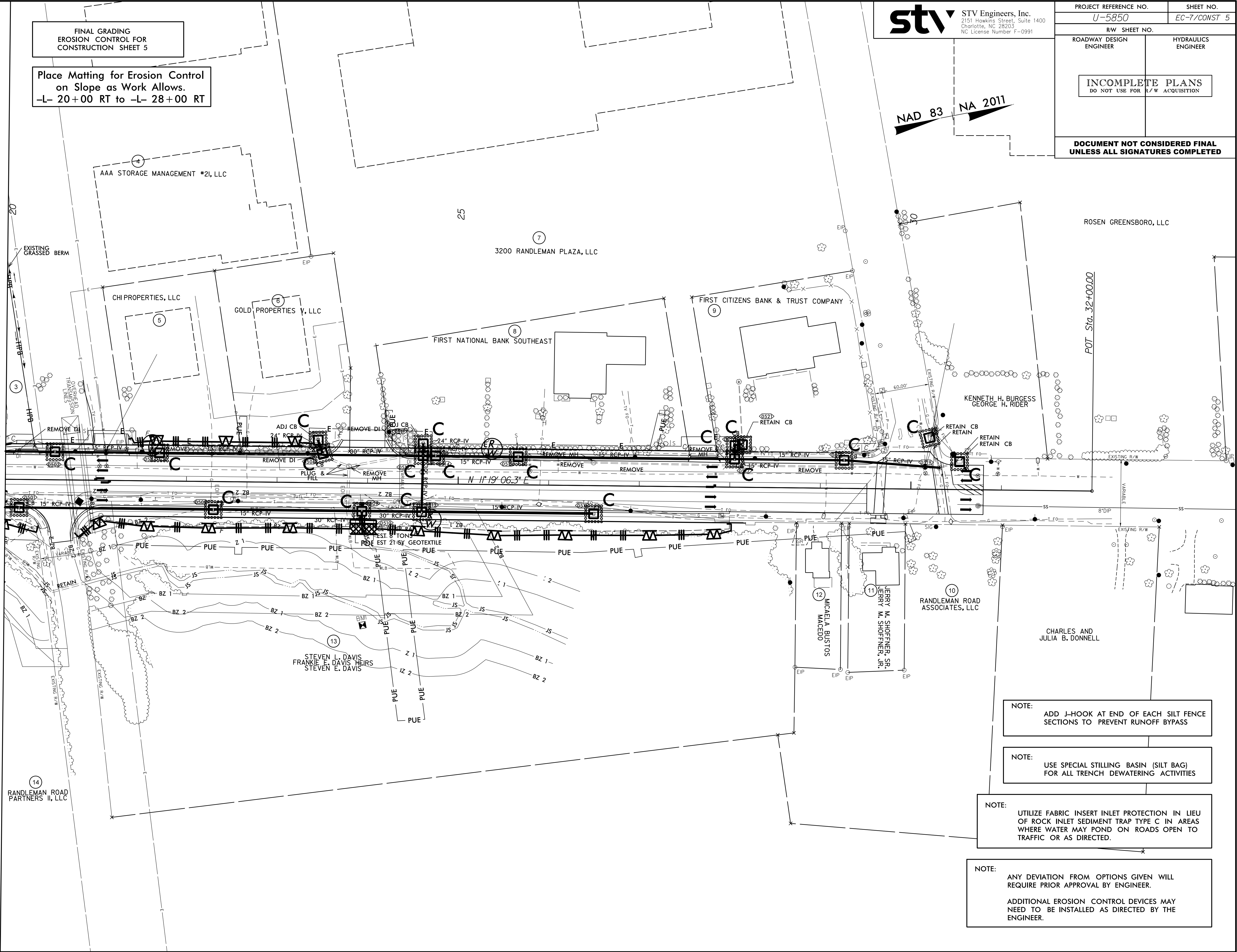
PROJECT REFERENCE NO.		SHEET NO.	
U-5850		EC-7/CONST 5	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

NAD 83
NA 2011

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

Place Matting for Erosion Control
on Slope as Work Allows.
-L- 20+00 RT to -L- 28+00 RT

MATCHLINE -L- 20+00.00
SEE SHEET EC-6



NOTE:
ADD J-HOOK AT END OF EACH SILT FENCE
SECTIONS TO PREVENT RUNOFF BYPASS

NOTE:
USE SPECIAL STILLING BASIN (SILT BAG)
FOR ALL TRENCH DEWATERING ACTIVITIES

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU
OF ROCK INLET SEDIMENT TRAP TYPE C IN AREAS
WHERE WATER MAY POND ON ROADS OPEN TO
TRAFFIC OR AS DIRECTED.

NOTE:
ANY DEVIATION FROM OPTIONS GIVEN WILL
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ADDITIONAL EROSION CONTROL DEVICES MAY
NEED TO BE INSTALLED AS DIRECTED BY THE
ENGINEER.

TIP PROJECT: U-5850

CONTRACT: DG00636

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
GUILFORD COUNTY

LOCATION: SR 1007 (RANDLEMAN RD.) FROM ELMSLEY DR.
TO GLENDALE DR. IN GREENSBORO

TIP NO.
U-5850

SHEET NO.
SIGN-1

APPROVED: Sean C. Stephens

DATE: 6/11/2025

SEAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	SIGNING PLAN COVER SHEET
SIGN-2 THRU SIGN-3	SIGNAGE PLANS

TYPE "E" SIGN

400
QUANTITY REQ'D = 1



R2-1
24" X 30"

401
QUANTITY REQ'D = 1



W1-2L
36" X 36"

402
QUANTITY REQ'D = 1



W3-5
36" X 36"

403
QUANTITY REQ'D = 1



R3-7 R
36" X 36"

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"
- N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C.,
DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE "D", "E", AND "F" SIGNS ON "U" CHANNEL POSTS
910.50	SIGNING FOR SPEED REDUCTION ZONE

SIGNING GENERAL NOTES

- A) IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE / CITY MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONSTRUCTION SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- B) SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRANSPORTATION MANAGEMENT AND PAVEMENT MARKING PLANS.
- C) WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
- D) WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- E) THE BACKGROUND FOR TYPE E & F SHALL BE TYPE C REFLECTIVE SHEETING, UNLESS OTHERWISE NOTICED.
- F) ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.

SUMMARY OF QUANTITIES

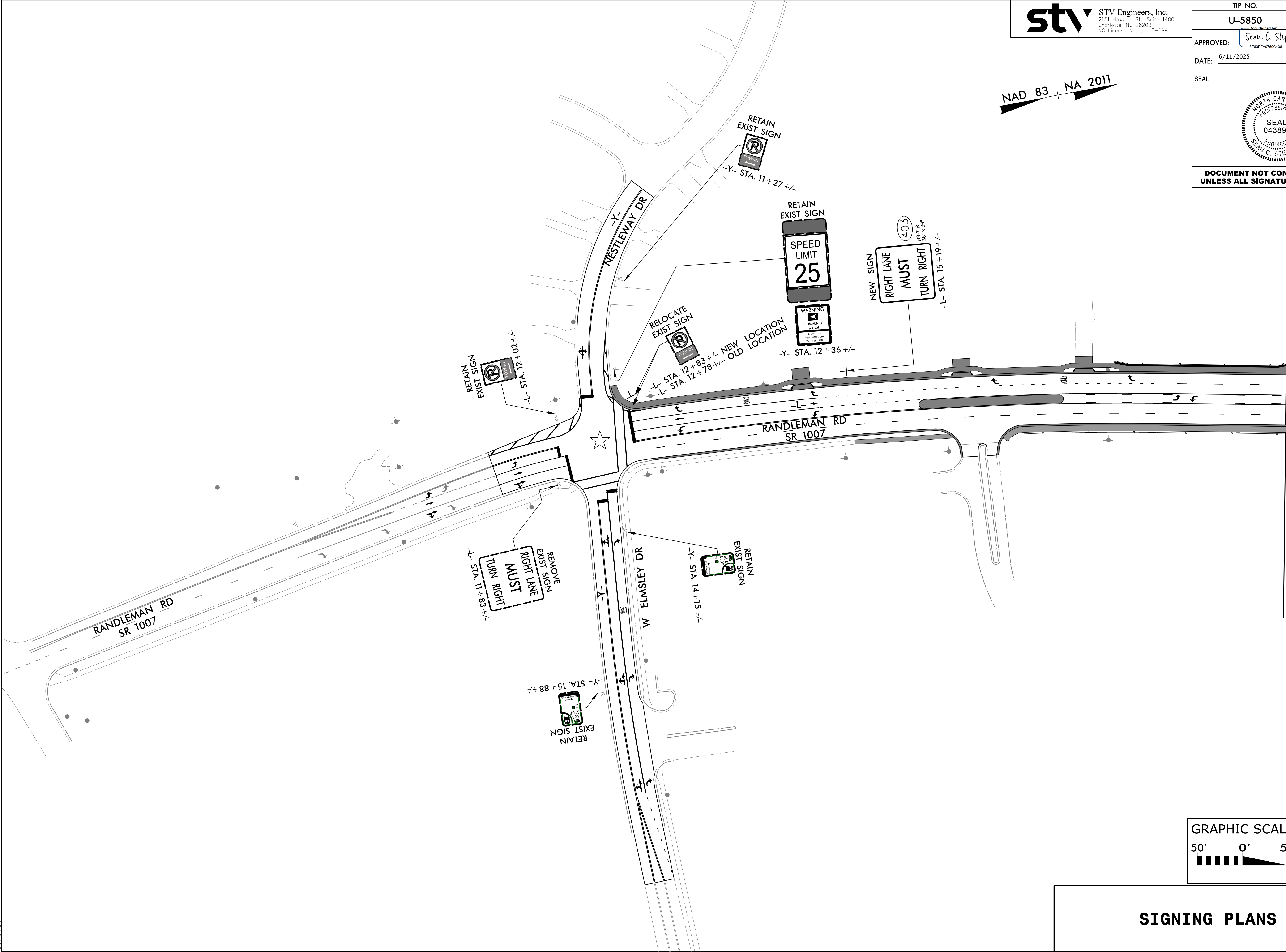
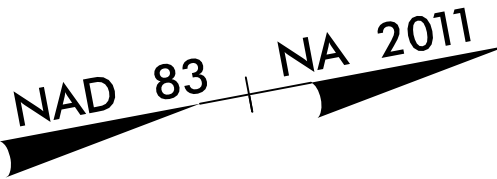
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
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4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	70	LF
4102000000-N	904	SIGN ERECTION, TYPE E	5	EA
4116100000-N	904	SIGN ERECTION, RELOCATE TYPE E (GROUND MOUNTED)	2	EA
4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	4	EA

PLAN PREPARED BY:
STV Engineers, Inc.

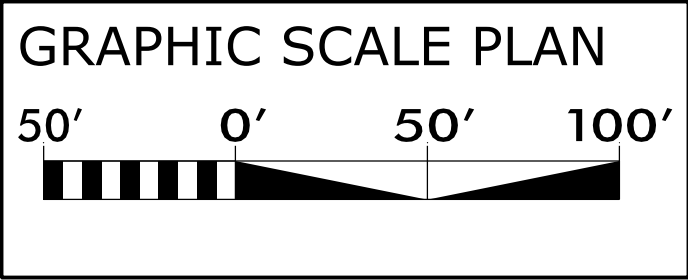
SEAN C. STEPHENS, PE TRAFFIC ENGINEER
CLARK GROVES TRANSPORTATION DESIGNER

stven STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

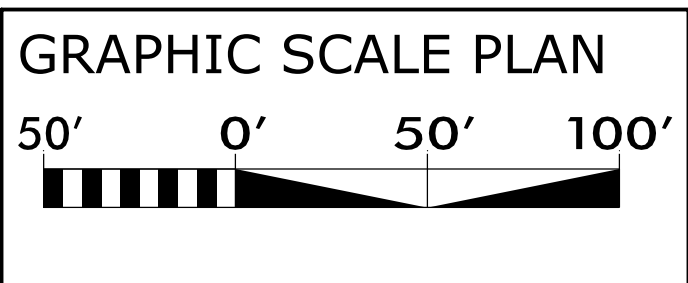
TIP NO.	SHEET NO.
U-5850	SIGN-2
APPROVED: <u>Sean C. Stephens</u> DESIGNER	
DATE: 6/11/2025	
SEAL SEAL 043891 ENGINEER SEAN C. STEPHENS	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -L- STA. 20+00 (SHEET SIGN-3)



SIGNING PLANS



SIGNING PLANS