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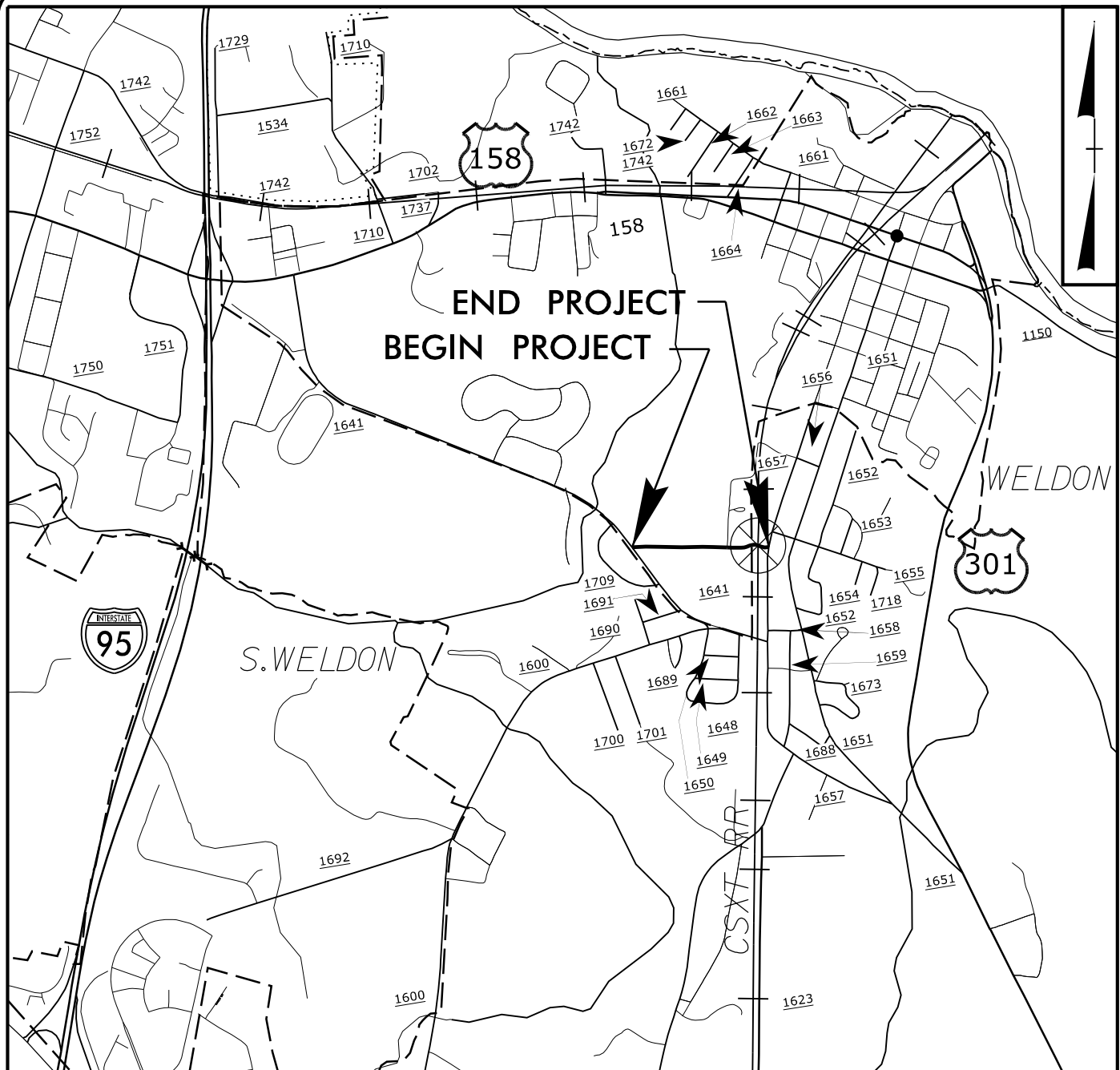
**This file or an individual page
shall not be considered a certified document.**

09.08/2019

18-APR-2022 14:34
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HNTB

TIP: Y-5500DB

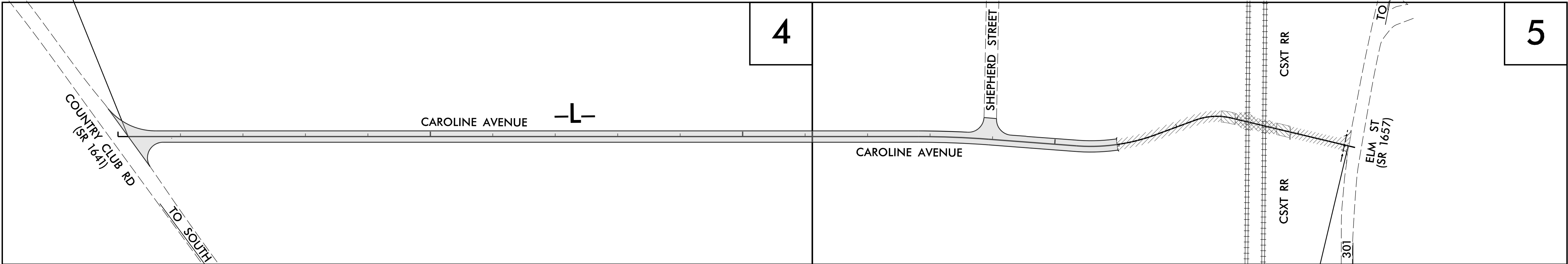
CONTRACT:



VICINITY MAP

⊗ RAIL CROSSING CLOSURE

BEGIN TIP PROJECT Y-5500DB
BEGIN CONSTRUCTION
-L- POC STA 10+16.35

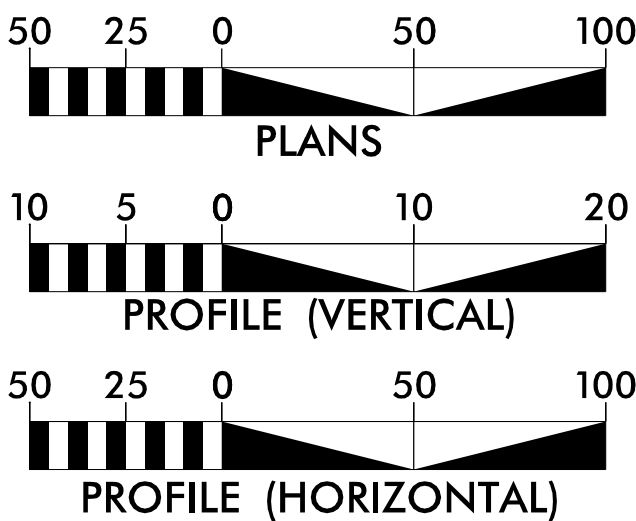


END TIP PROJECT Y-5500DB
END CONSTRUCTION
-L- POT STA 29+82.57

NOTE: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS FROM RW TO RW OR AS DIRECTED BY THE ENGINEER BY METHOD III.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT = N/A
ADT = N/A
K = N/A
D = N/A
T = N/A
V = N/A
* TTST = N/A DUAL N/A
FUNC CLASS = N/A

PROJECT LENGTH

LENGTH OF ROADWAY T.I.P. PROJECT Y-5500DB = 0.372 MI
TOTAL LENGTH OF T.I.P. PROJECT Y-5500DB = 0.372 MI

Prepared In the Office of:

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-18554

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

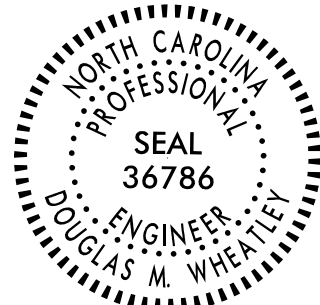
LETTING DATE:
MAY 24, 2022

DOUGLAS M. WHEATLEY, PE
PROJECT ENGINEER

DANIEL T. KING, EI
PROJECT DESIGN ENGINEER

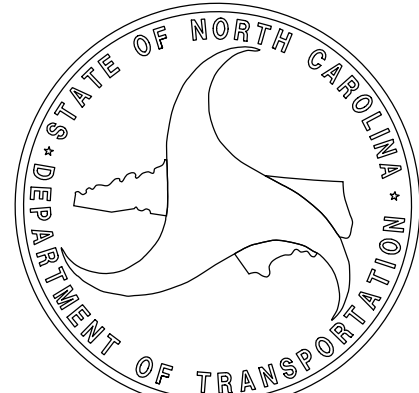
BRIAN GACKSTETTER, PE
NCDOT CONTACT

ROADWAY DESIGN
ENGINEER



DocuSigned by:
Douglas M. Wheatley
SIGNATURE:

4/21/2022
P.E.



NC DEPARTMENT OF
TRANSPORTATION
RAIL DIVISION
DESIGN AND CONSTRUCTION

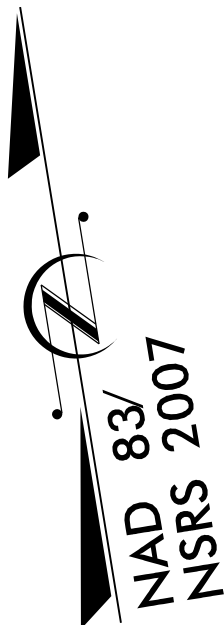





STATE OF NORTH CAROLINA
RAIL DIVISION

HALIFAX COUNTY

LOCATION: CAROLINE AVENUE (CROSSING #629-652L, MP
A83.57) AND CSXT RAILROAD

TYPE OF WORK: GRADING, CROSSING CLOSURE, RESURFACING
AND PAVEMENT REMOVAL



	HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554		PROJECT REFERENCE NO. Y-5500DB	SHEET NO. 1A
			RW SHEET NO.	
			ROADWAY DESIGN ENGINEER 	
		DocuSigned by:  AB7893E0B1310D4		4/21/2022
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INDEX OF SHEETS	
<u>SHEET NO.</u>	<u>SHEET</u>
1	TITLE SHEET
1A	GENERAL NOTES, LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A	PAVEMENT SCHEDULE, AND TYPICAL SECTIONS
2B	CROSSING CLOSURE DETAIL SHEET
3	SUMMARY OF QUANTITIES, SIGNING DETAILS
4 & 5	PLAN SHEETS
6	PROFILE SHEETS
EC-1 TO EC-7	EROSION CONTROL SHEETS

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

GRADE LINE:
GRADING AND SURFACING:

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 AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

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.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

MAINTENANCE OF TRAFFIC

COMPLETE CONSTRUCTION USING FLAGGERS AND LANE CLOSURES AS NEEDED (ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 15). CLOSE ROAD USING SIGNS AND BARRICADES AS SHOWN ON ROADWAY STANDARD DRAWING 1101.03, SHEETS 1 & 2 OF 9.

PAVEMENT MARKING

PLACE PROPOSED PAVEMENT MARKING ACCORDING TO ROADWAY STANDARD
DRAWING 1205.01. TIE TO & MATCH EXISTING PAVEMENT MARKINGS (LOCATION &
TYPE OF MATERIAL).

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
862.03	Structure Anchor Units (Beg. March 2013 letting use detail in lieu of Standard)

DIVISION	11 – WORK ZONE TRAFFIC CONTROL
1101.01	Work Zone Advance Warning Signs
1101.02	Temporary Lane Closures
1101.03	Temporary Road Closures
1101.04	Temporary Shoulder Closures
1101.11	Traffic Control Design Tables
1110.01	Stationary Work Zone Signs
1110.02	Portable Work Zone Signs
1130.01	Drum
1135.01	Cones
1145.01	Barricades – Type III
1150.01	Flagger Devices

DIVISION 12	– PAVEMENT MARKINGS, MARKERS & DELINEATION
1205.01	Pavement Markings – Line Types & Offsets
1205.02	Pavement Markings – Divided & Undivided Roadways
1205.04	Pavement Markings – Intersections
1261.01	Guardrail & Barrier Delineator Spacing
1261.02	Guardrail & Barrier Delineator Types
1262.01	Guardrail End Delineation
1264.01	Object Markers
1264.02	Placement of Object Markers

SIGNING GENERAL NOTES

SIGNS FURNISHED BY STATE.

IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.

SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS

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	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
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	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
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	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage/Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
Single Tree	
Single Shrub	
Hedge	

VEGETATION:

Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

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	
H-Frame Pole	
U/G Power Line Test Hole (SUE – LOS A)*	
U/G Power Line (SUE – LOS B)*	
U/G Power Line (SUE – LOS C)*	
U/G Power Line (SUE – LOS D)*	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Test Hole (SUE – LOS A)*	
U/G Telephone Cable (SUE – LOS B)*	
U/G Telephone Cable (SUE – LOS C)*	
U/G Telephone Cable (SUE – LOS D)*	
U/G Telephone Conduit (SUE – LOS B)*	
U/G Telephone Conduit (SUE – LOS C)*	
U/G Telephone Conduit (SUE – LOS D)*	
U/G Fiber Optics Cable (SUE – LOS B)*	
U/G Fiber Optics Cable (SUE – LOS C)*	
U/G Fiber Optics Cable (SUE – LOS D)*	

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)*	
U/G Water Line (SUE – LOS C)*	
U/G Water Line (SUE – LOS D)*	
Above Ground Water Line	

TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Test Hole (SUE – LOS A)*	
U/G TV Cable (SUE – LOS B)*	
U/G TV Cable (SUE – LOS C)*	
U/G TV Cable (SUE – LOS D)*	
U/G Fiber Optic Cable (SUE – LOS B)*	
U/G Fiber Optic Cable (SUE – LOS C)*	
U/G Fiber Optic Cable (SUE – LOS D)*	

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

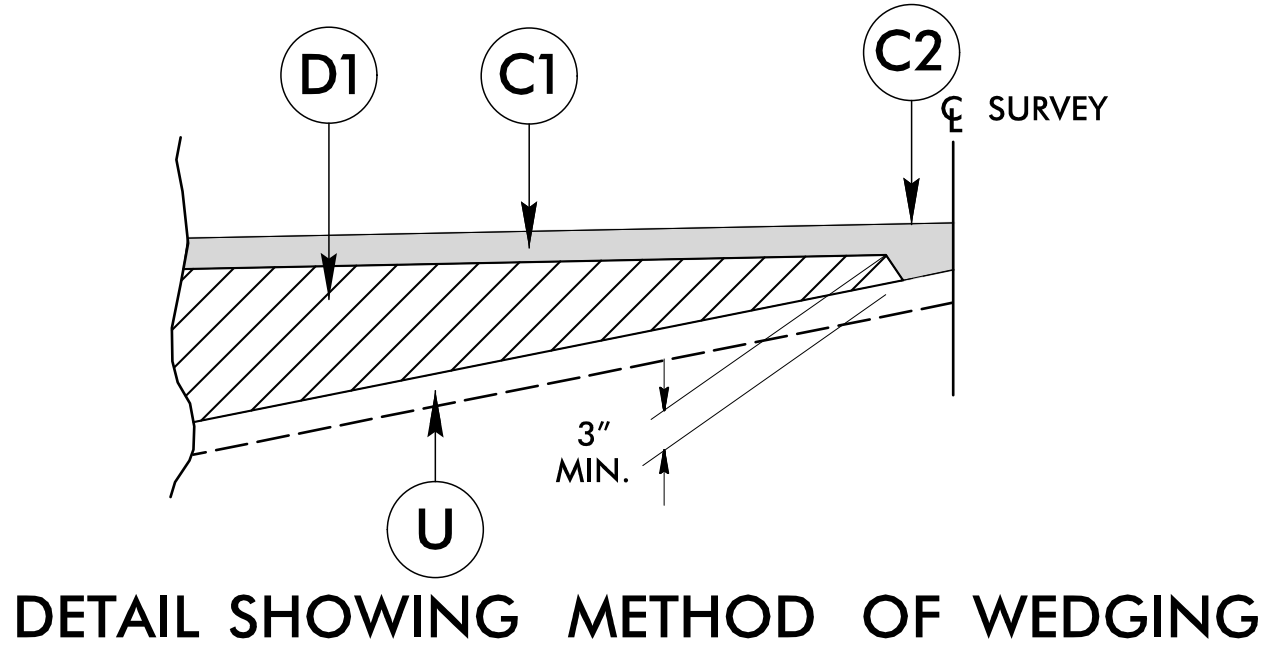
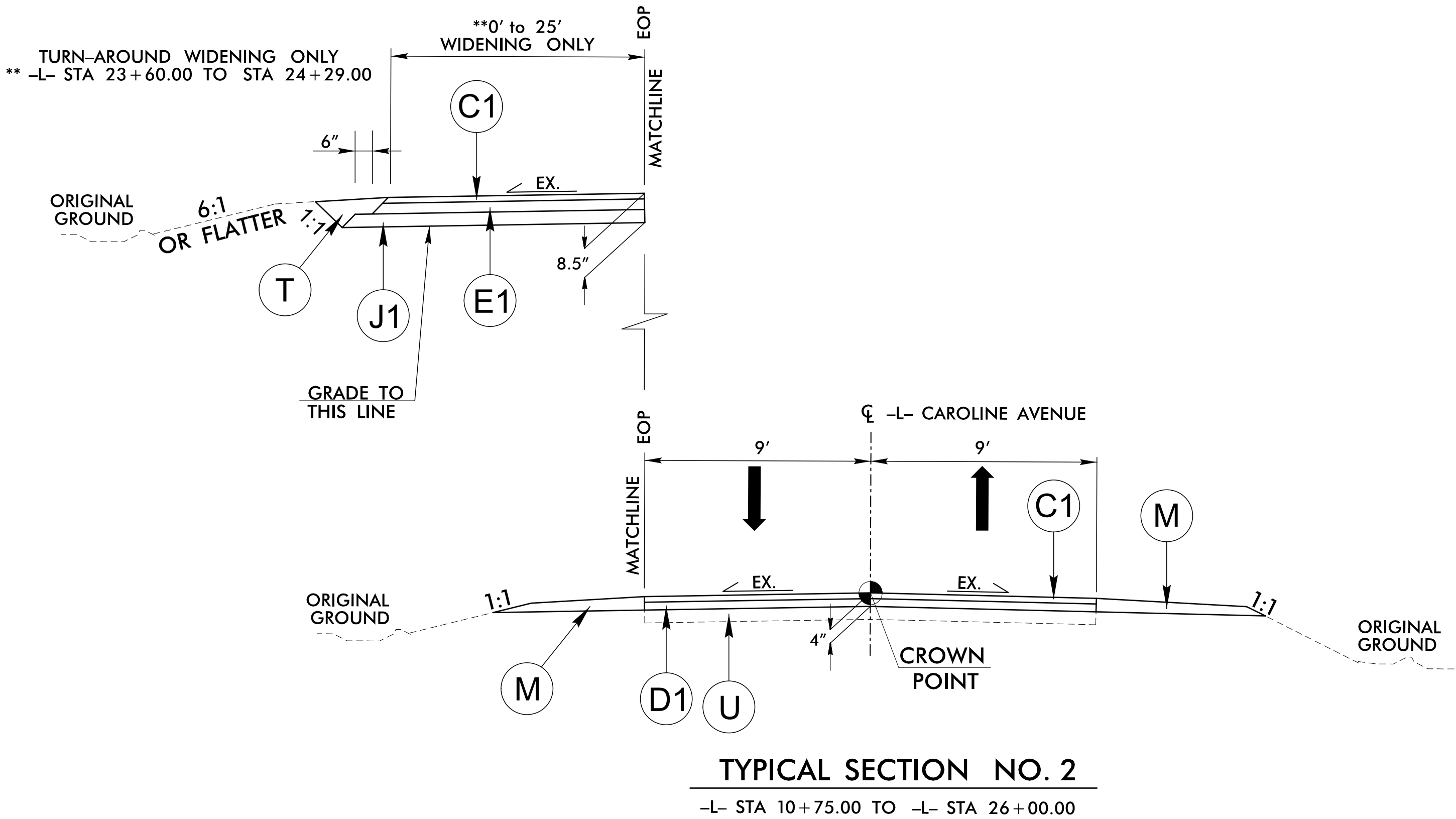
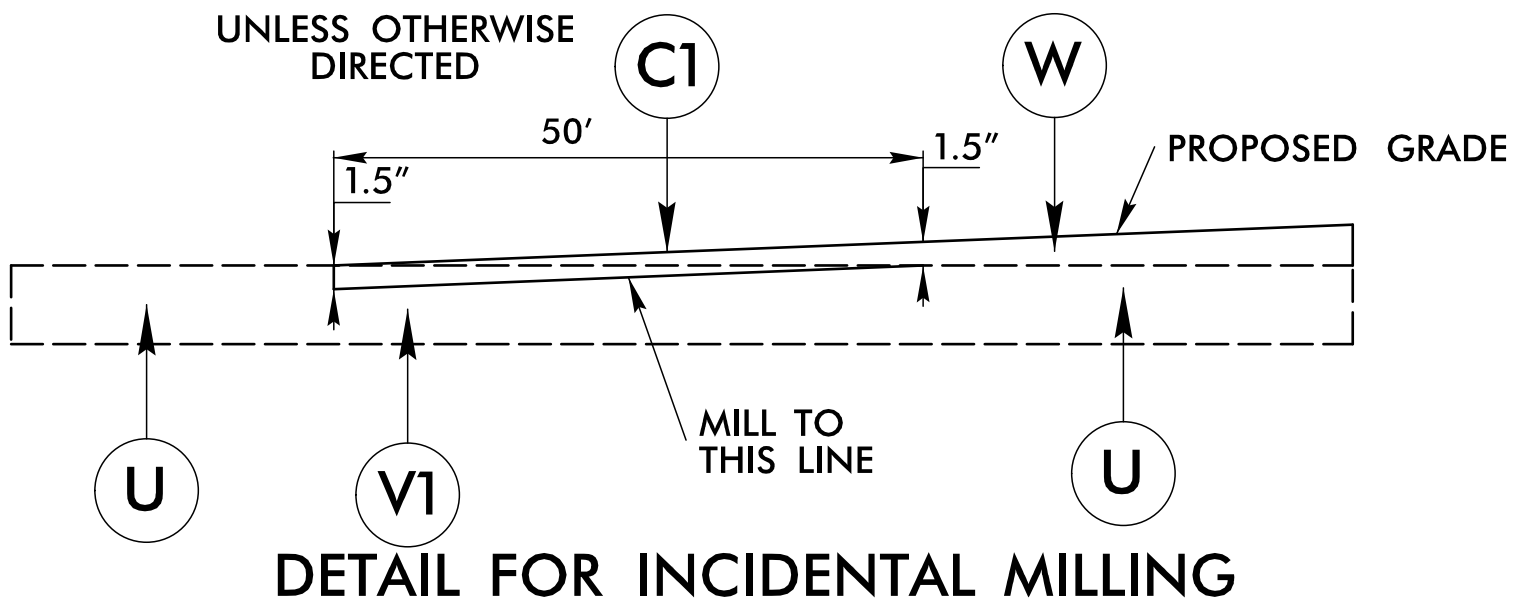
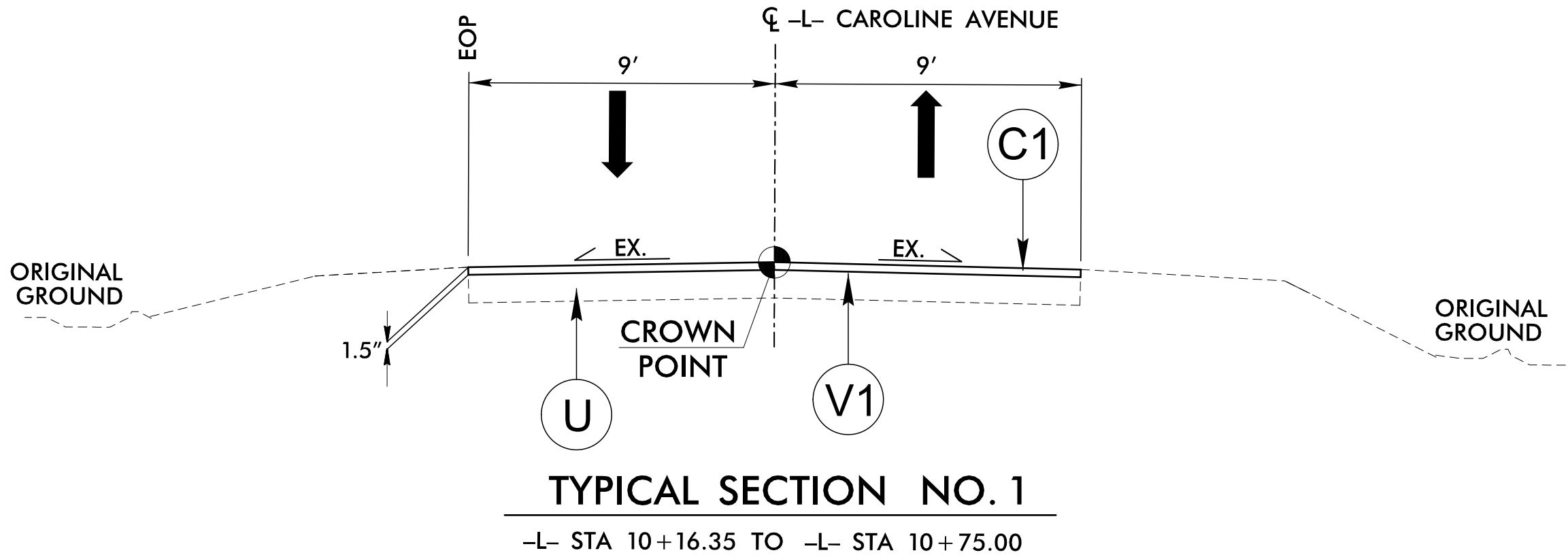
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line (SUE – LOS B)*	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
Abandoned According to Utility Records	
End of Information	

5/14/99

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HNTB

PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)			
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD.	T	EARTH MATERIAL
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1" IN DEPTH OR GREATER THAN 1.5" IN DEPTH.	U	EXISTING PAVEMENT
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.	V1	1.5" MILLING
E1	PROP. APPROX. 3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YARD.	M	SHOULDER RECONSTRUCTION
J1	PROP. 4" AGGREGATE BASE COURSE	W	VARIABLE DEPTH ASHALT PAVEMENT

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.		SHEET NO.	
Y-5500DB		2A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
4/21/2022		Decou Signed by NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040774 DOUGLAS M. WHATEY 4/20/2022	
DOUGLAS M. WHATEY			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. + 25%	BORROW	WASTE
-L- STA. 10 + 75.00 (LT)	-L- STA. 23 + 60.00 (LT)		61	61	
-L- STA. 23 + 60.00 (LT)	-L- STA. 24 + 29.00 (LT)	20	3		17
-L- STA. 24 + 29.00 (LT)	-L- STA. 26 + 00.00 (LT)		6	6	
-L- STA. 10 + 75.00 (RT)	-L- STA. 24 + 29.00 (RT)		64	64	
-L- STA. 24 + 29.00 (RT)	-L- STA. 26 + 00.00 (RT)		8	8	
SUBTOTALS:		20	141	138	17
WASTE IN LIEU OF BORROW				-17	
SUBTOTALS:					
PROJECT TOTALS:		20	141	121	
5% TO REPLACE BORROW				6	
GRAND TOTALS:		20	141	127	
SAY:		20		130	

PAVEMENT REMOVAL SUMMARY

[illegible]

GUARDRAIL SUMMARY

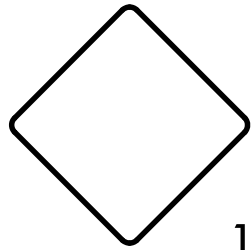
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SIGNING QUANTITIES

SURVEY LINE	SIGN	STATION	LOCATION LT/RT/CL	QUANTITY
-L-	W14-2	12 + 22	RT	1
-L-	OM4-3	26 + 05	CL	3
			TOTAL:	4
			SAY:	4



W14-2
48" X 48"



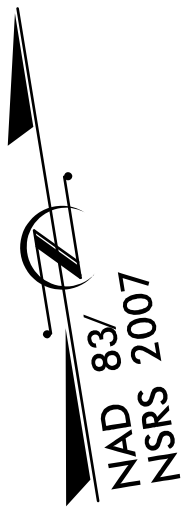
OM4-3
18" X 18"

5/14/99

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343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
Y-5500DB	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
<div><div><div><div></div><div>NORTH CAROLINA PROFESSIONAL SEAL 36786 ENGINEER DOUGLAS M. WHENLEY</div></div></div></div>	
DocuSigned by: Douglas M. Whenley	4/21/2022
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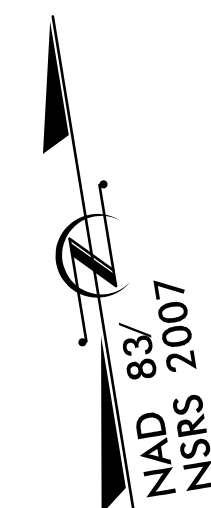
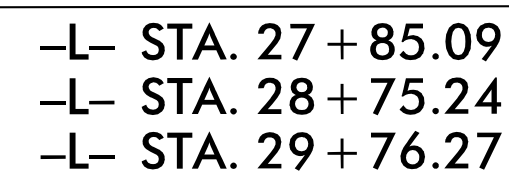


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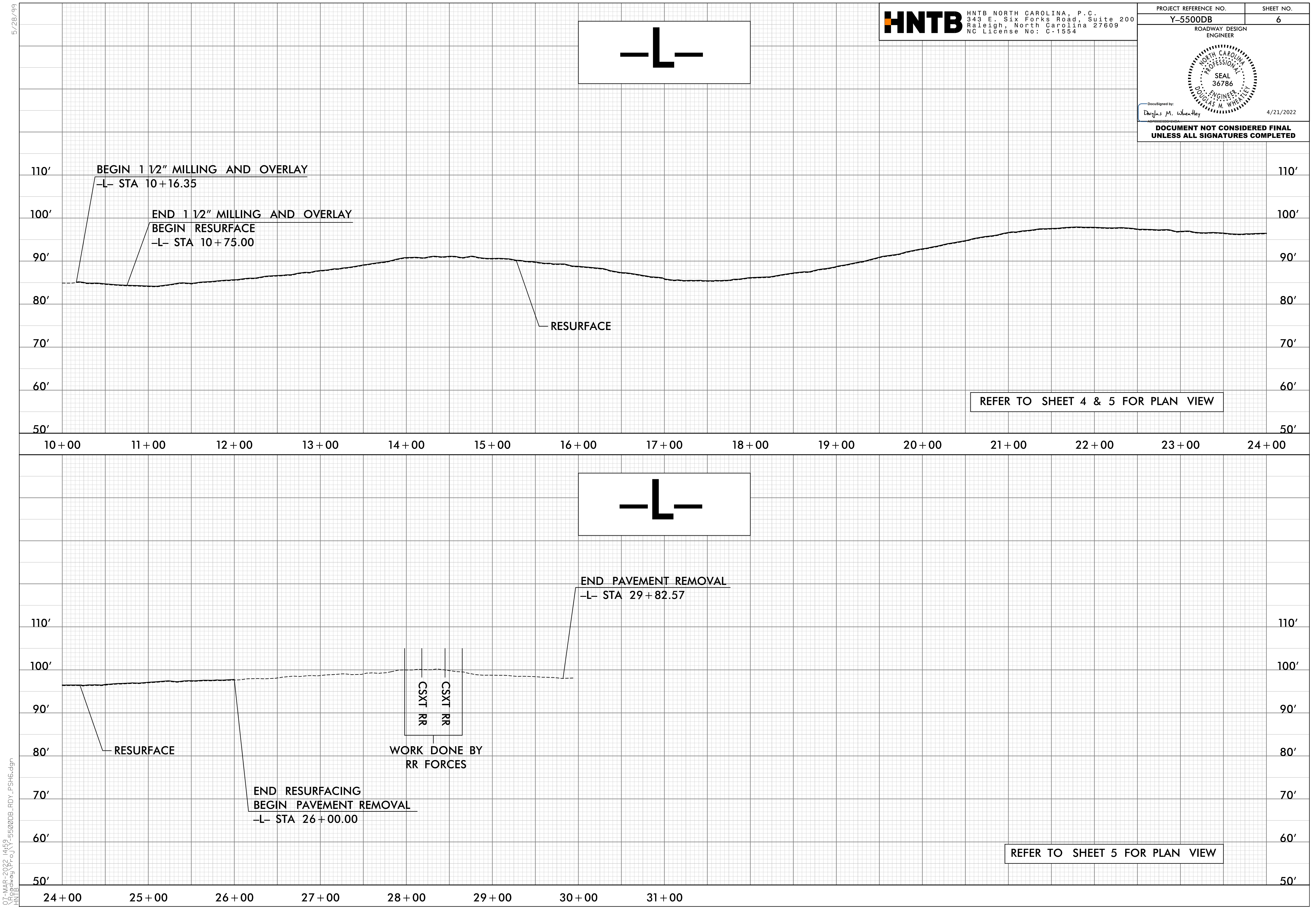
-L-		
<i>Pl Sta 23+37.64</i>	<i>Pl Sta 26+00.44</i>	<i>Pl Sta 27+61.68</i>
$\Delta = 4^{\circ}18'54.9''$ (RT)	$\Delta = 24^{\circ}35'48.3''$ (LT)	$\Delta = 33^{\circ}41'38.6''$ (RT)
$D = 3^{\circ}49'11.0''$	$D = 19^{\circ}05'54.9''$	$D = 57^{\circ}17'44.8''$
$L = 112.97'$	$L = 128.79'$	$L = 58.8'$
$T = 56.51'$	$T = 65.40'$	$T = 30.28'$
$R = 1,500.00'$	$R = 300.00'$	$R = 100.00'$




- DETAIL AA**
SPECIAL CUT DITCH
(Not to Scale)

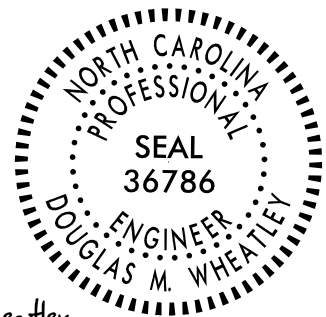


REFER TO SHEET 6 FOR PROFILE





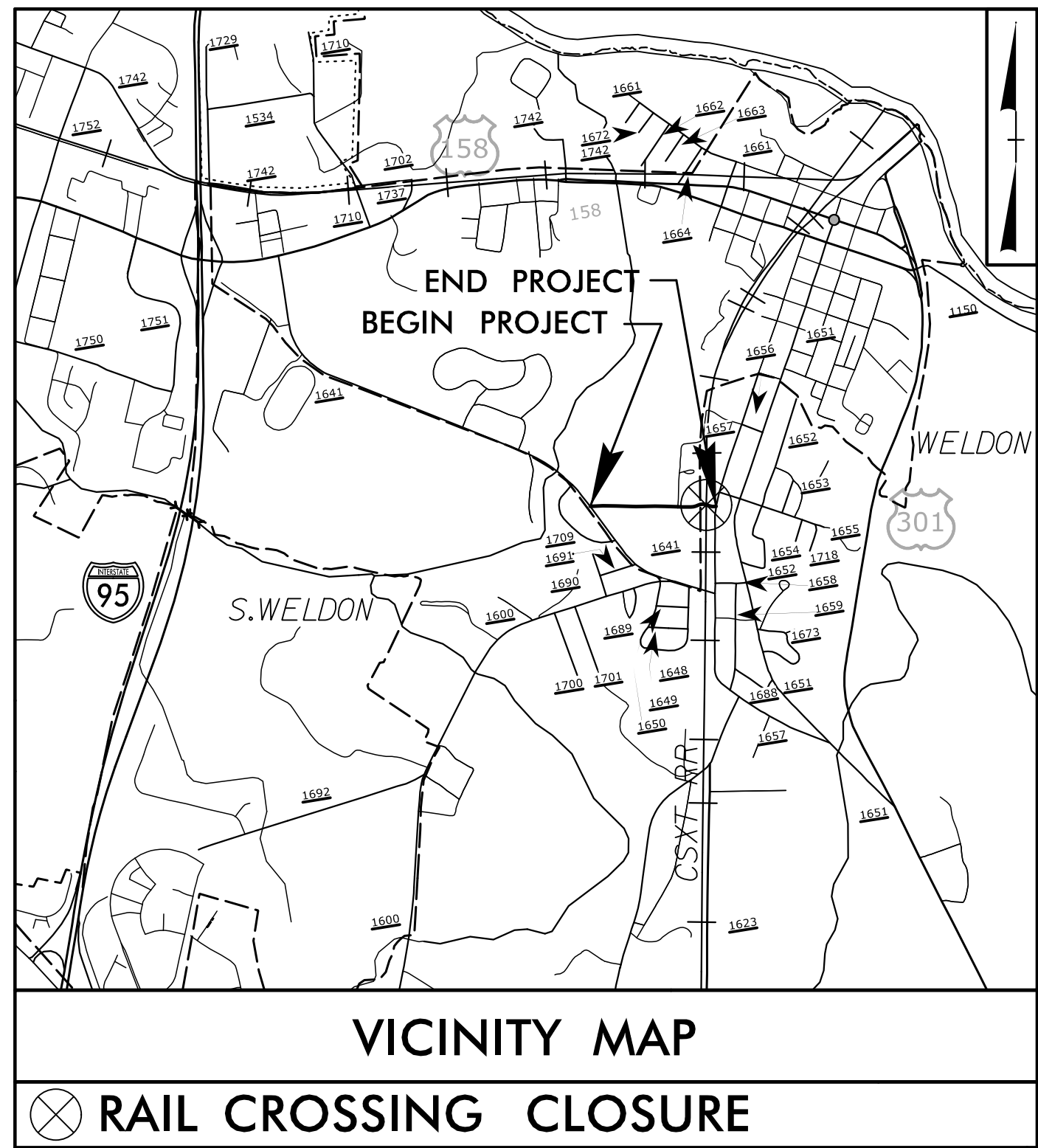
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
Y-5500DB	6
ROADWAY DESIGN ENGINEER	
	
DocuSigned by: Douglas M. Wheatley	4/21/2022
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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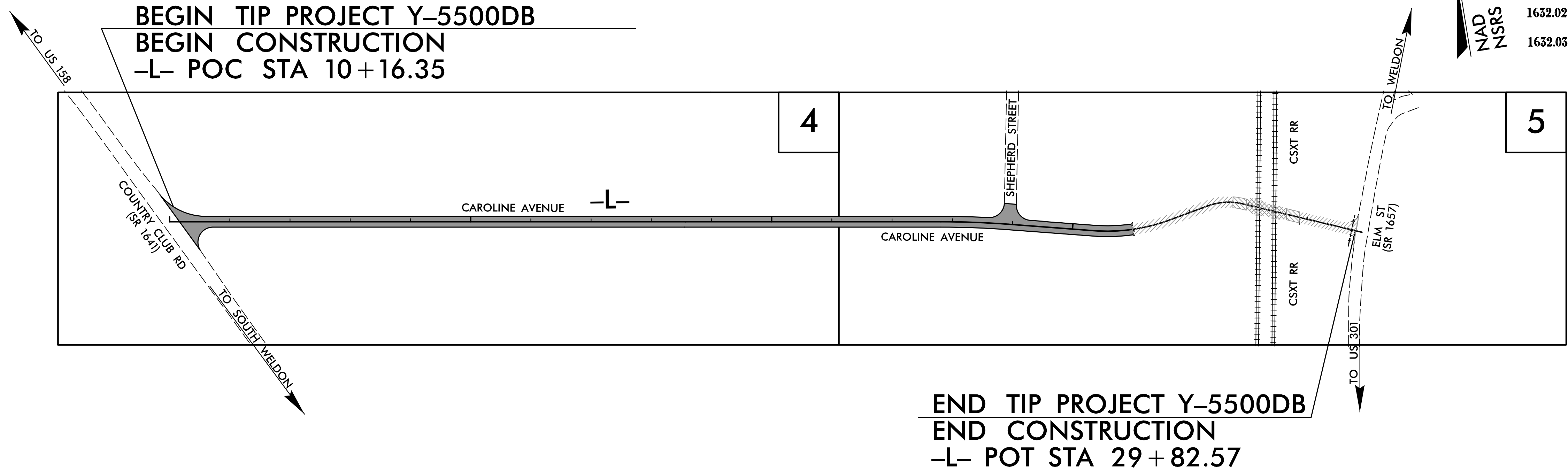
TIP PROJECT: Y-5500DB



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

LOCATION: CAROLINE AVENUE (CROSSING #629-652L, MP A83.57) AND CSXT RAILROAD

TYPE OF WORK: GRADING, CROSSING CLOSURE, RESURFACING AND PAVEMENT REMOVAL



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	SSF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle/Coir Fiber Wattle	W
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	W-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTDA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTDB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	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	TSSB
	Infiltration Basin	IB

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

GRAPHIC SCALE



PLANS

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.

HNTB

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NC License No. C-1554

Prepared In the Office of:

HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No. C-1554

Designed by:

NATALIE CHAN, P.E.

NAME

3444

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	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	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

RAILROAD EROSION CONTROL DETAIL

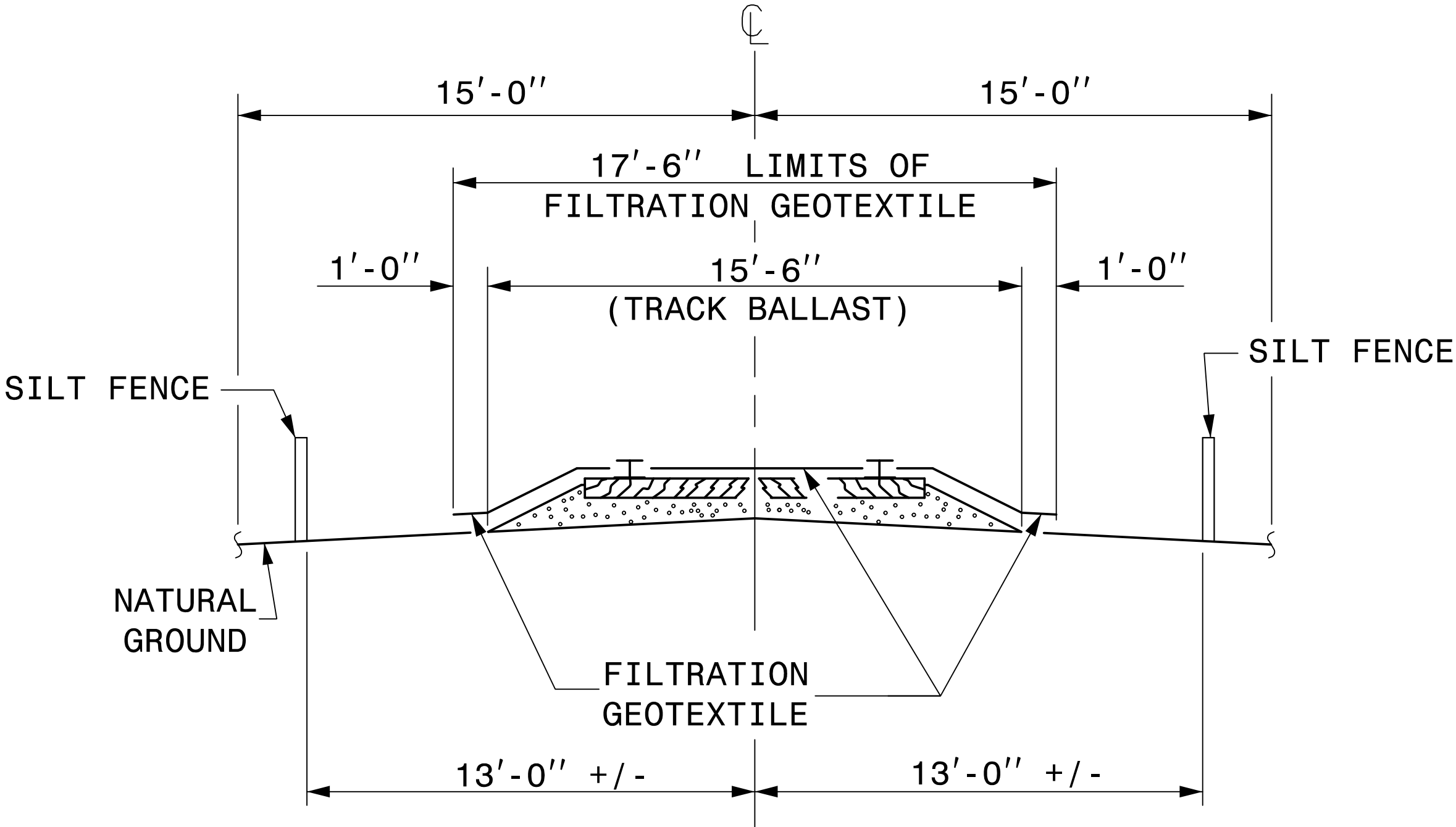
PROJECT REFERENCE NO.	SHEET NO.
Y-5500DB	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
RAILROAD EROSION CONTROL DETAIL

SHEET 1 OF 1
1604.01



NOTES

- INSTALL RAILROAD EROSION CONTROL MEASURES PRIOR TO PERFORMING ANY WORK IN THE RAILROAD RIGHT-OF-WAY.
- ADDITIONAL EROSION CONTROL MEASURES FOR PROTECTION OF RAILROAD DITCHES MAY BE REQUIRED AS DIRECTED.
- MAKE NO SEPARATE PAYMENT FOR RAILROAD EROSION CONTROL MEASURES.
- EXTEND LIMITS OF SILT FENCE AND FILTRATION GEOTEXTILE PARALLEL TO RAILROAD A MINIMUM OF 10'-0" OUTSIDE EDGE OF SUPERSTRUCTURE OR TOE OF SLOPE ON CONSTRUCTION. A GREATER LENGTH OF SILT FENCE OR FILTRATION GEOTEXTILE MAY BE REQUIRED AS DIRECTED.
- NAIL FILTRATION GEOTEXTILE TO TIMBER RAIL TIES WITH PRIME SOURCE "GRIP CAP" OR EQUIVALENT. SECURE FILTRATION GEOTEXTILE ON SHOULDER AS DIRECTED BY THE RAILROAD AND NCDOT.

STATE OF NORTH CAROLINA
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

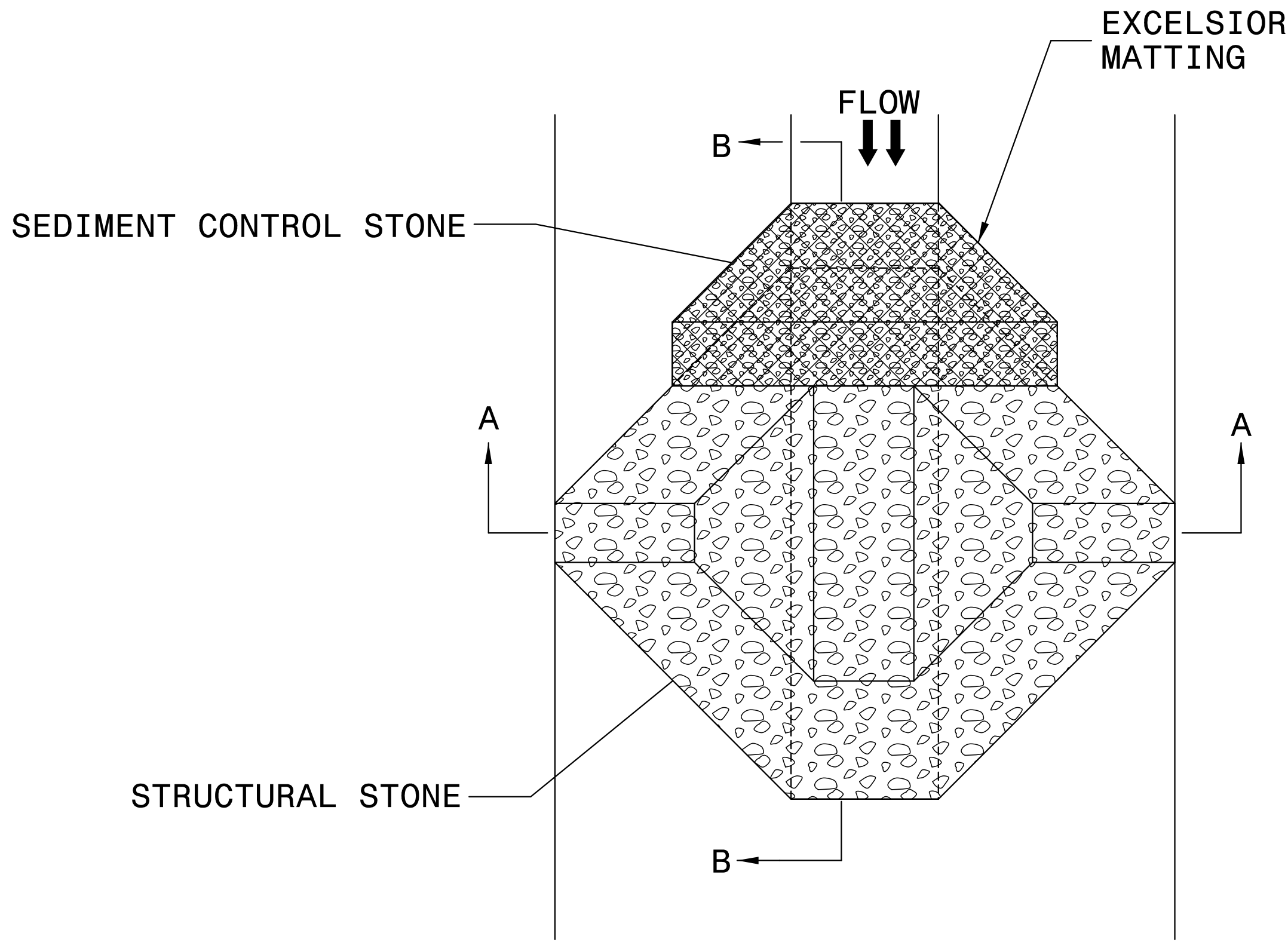
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ENGLISH STANDARD DRAWING FOR
RAILROAD EROSION CONTROL DETAIL

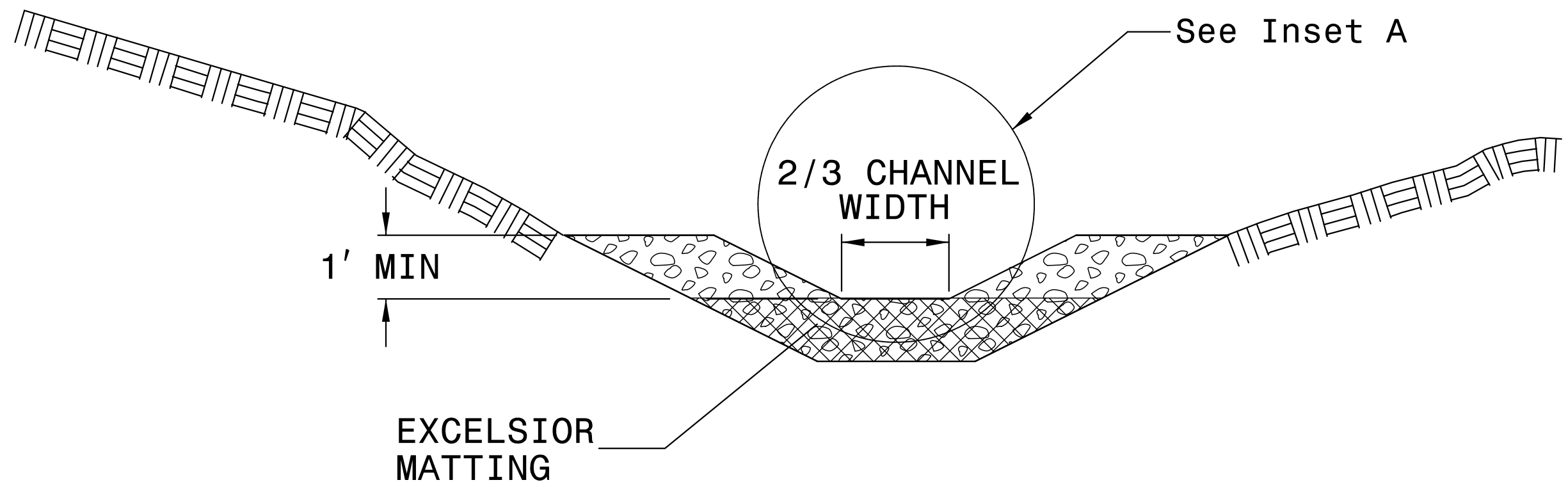
SHEET 1 OF 1
1604.01

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)

PROJECT REFERENCE NO.	SHEET NO.
Y-5500DB	EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



PLAN



SECTION A-A

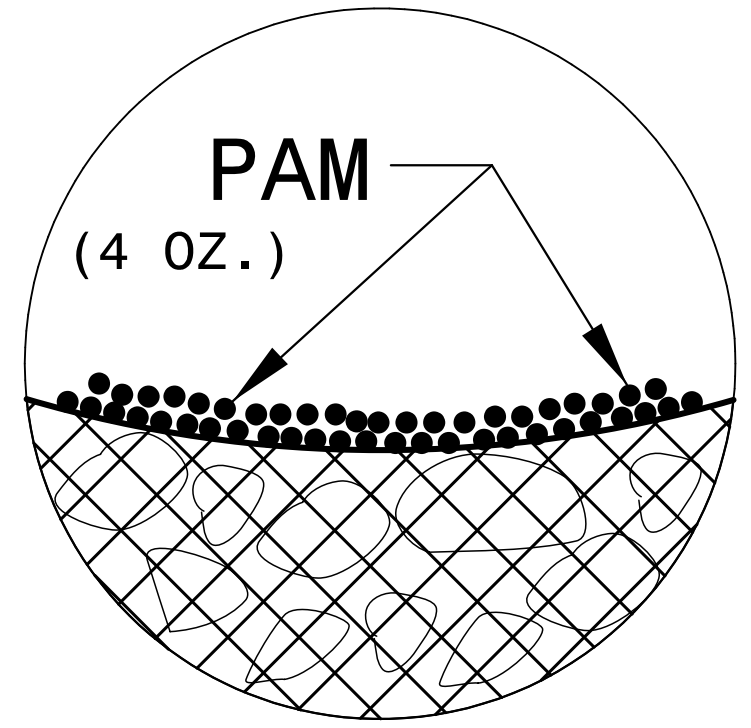
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

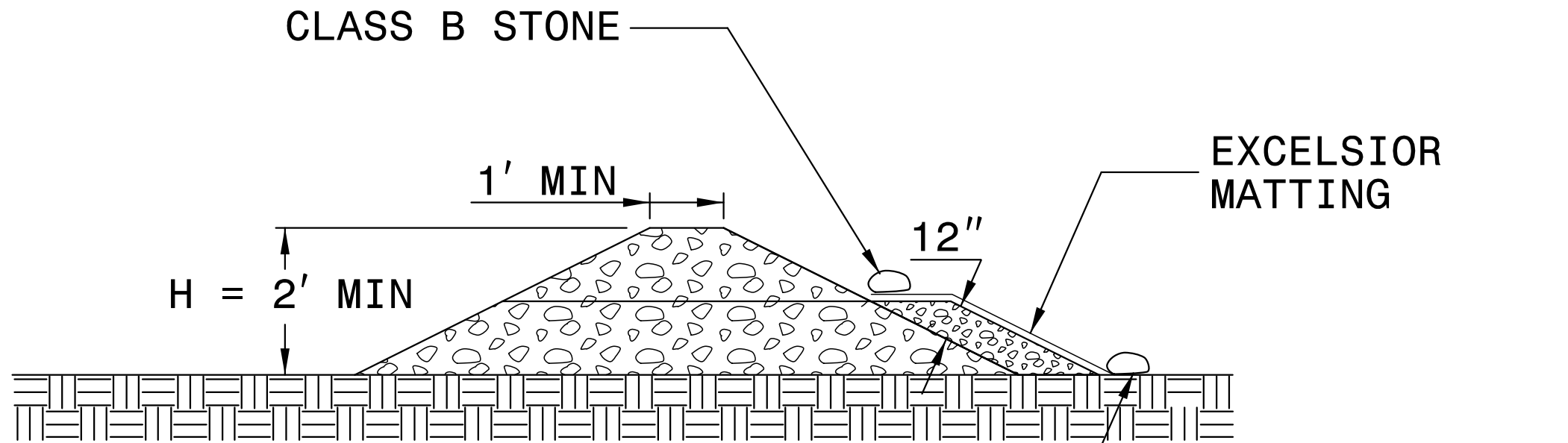
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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 ROCK SILT CHECK.

INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
Y-5500DB	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 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.

5/14/99

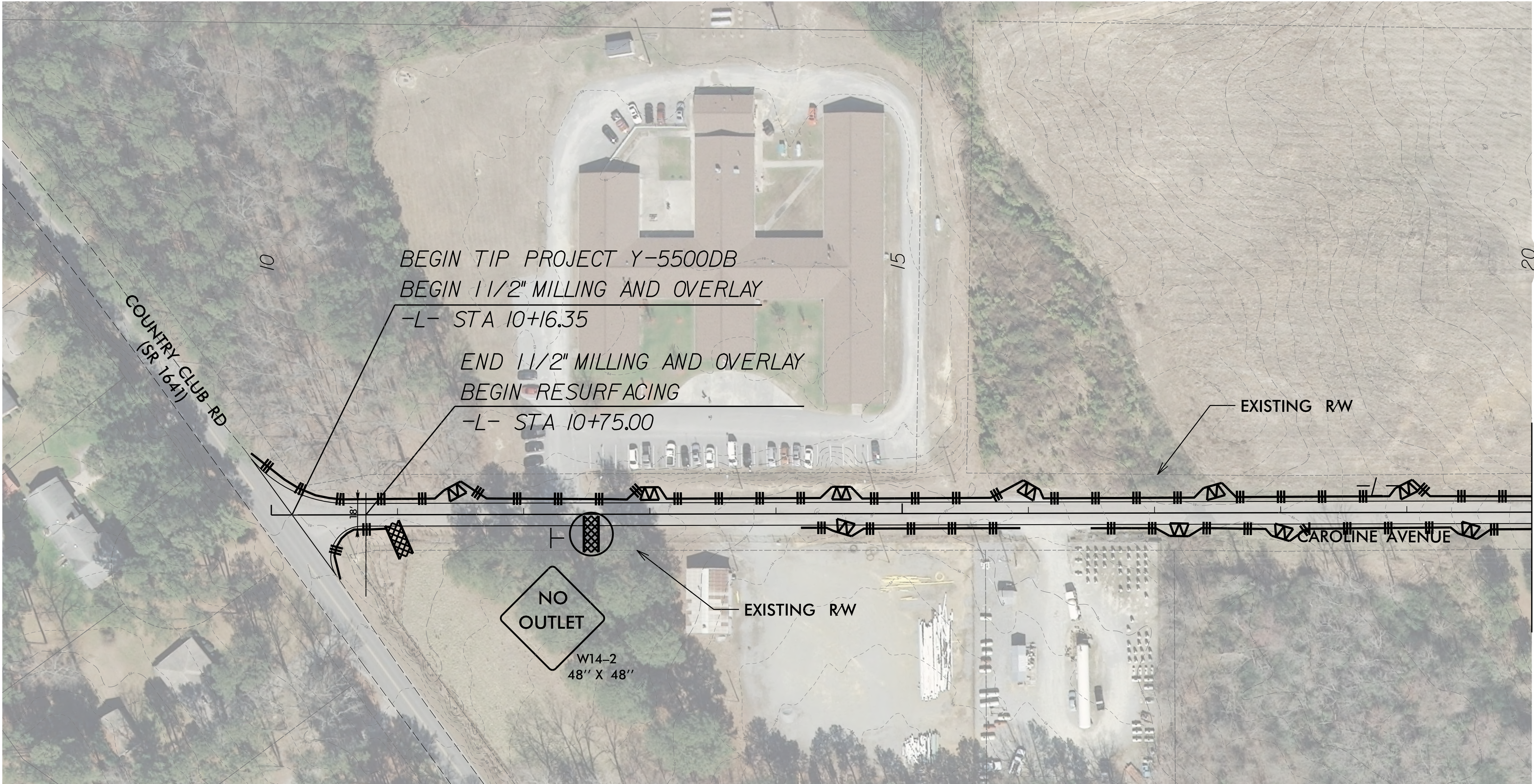
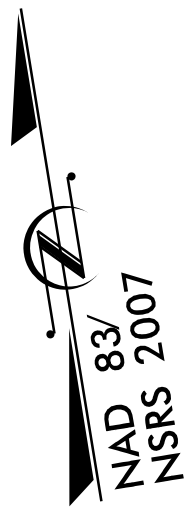
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

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



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Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
Y-5500DB	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	



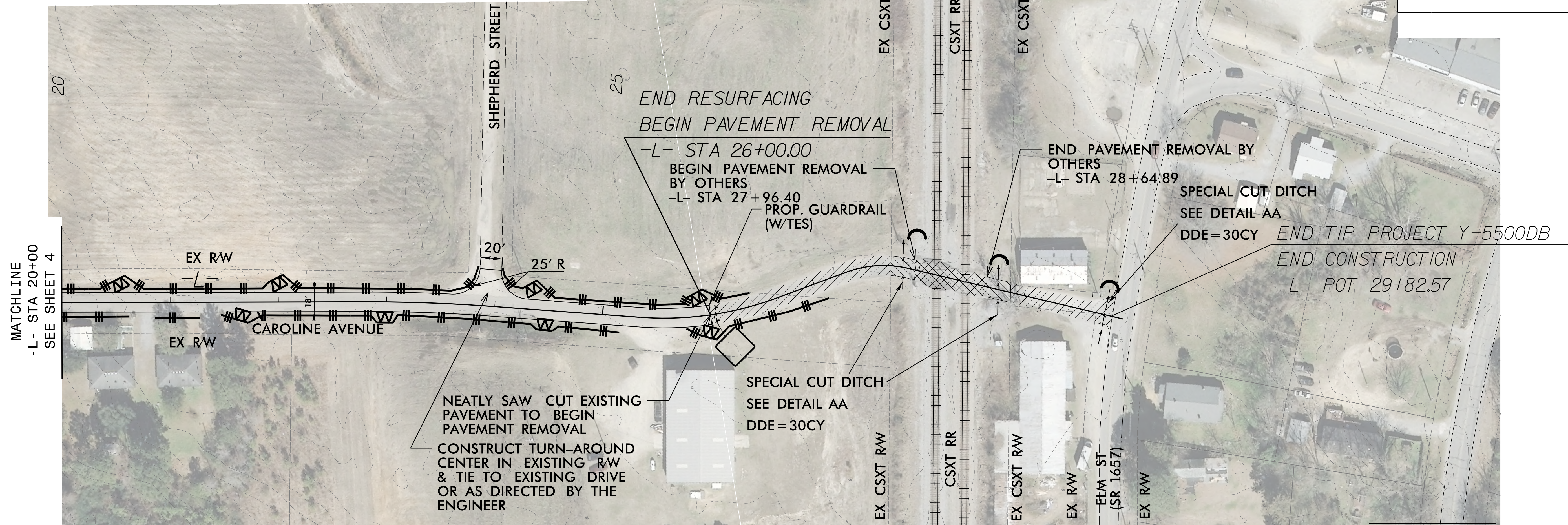
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REFER TO SHEET 6 FOR PROFILE

5/14/99
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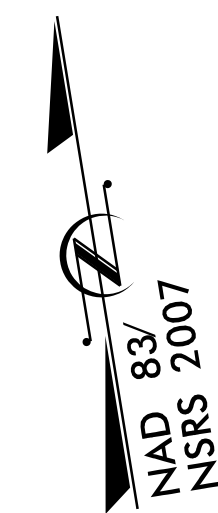
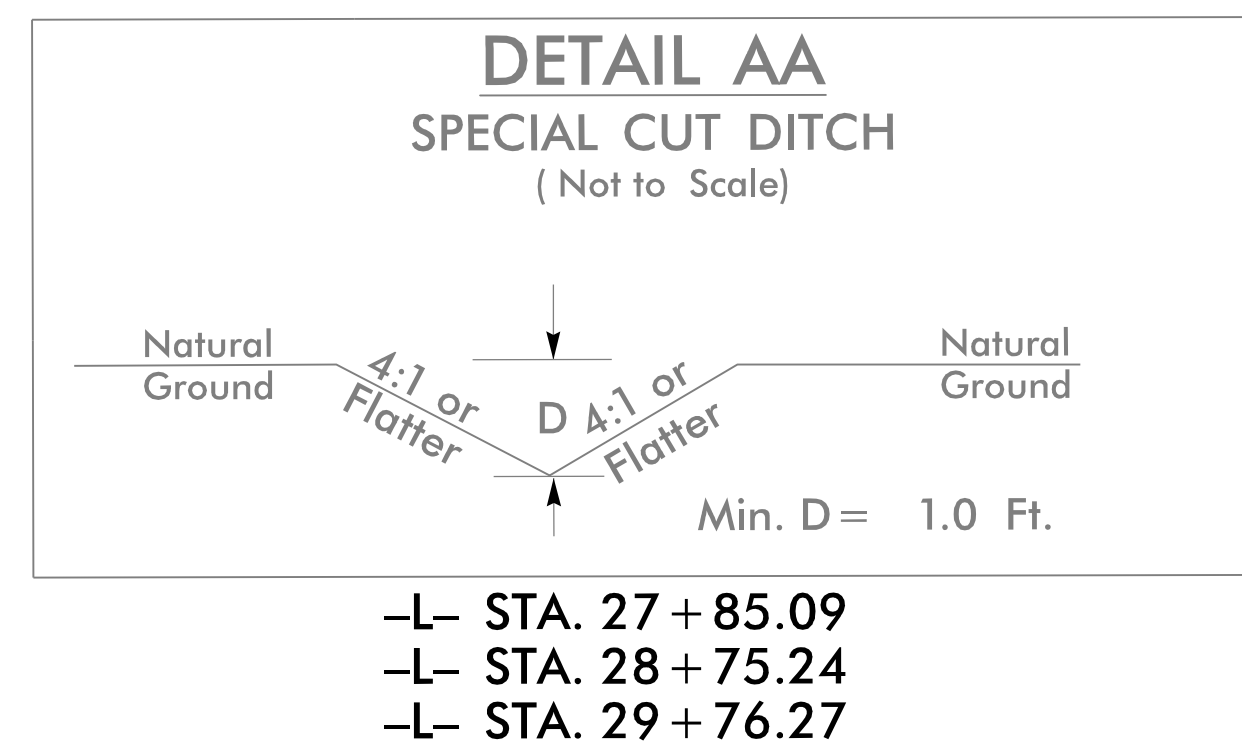
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5	HNTB HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554		PROJECT REFERENCE NO.	SHEET NO.
			Y-5500DB	EC-5/CONST.5
			RW SHEET NO.	ROADWAY DESIGN ENGINEER

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



NOTES:

1. CONTACT THE RAIL DIVISION PROJECT ENGINEER TO SCHEDULE THE CLOSURE OF CAROLINE AVENUE.
2. CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 TO LOCATE ALL UNDERGROUND UTILITIES IN THE WORK AREA.
3. PROVIDE PERMANENT SIGNING AS SHOWN.
4. PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS. 1101.01 (SHEET 3 OF 3), 1101.02 (SHEET 1 OF 14) AND 1101.03 (SHEET 1 & 2 OF 9).
5. ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
6. SEE CROSSING CLOSURE DETAIL SHEET 2B.



LEGEND	
	OBLITERATE EXISTING PAVEMENT
	PAVEMENT TO BE REMOVED BY CSXT
	PAVEMENT REMOVAL OUTSIDE EX. RW

REFER TO SHEET 6 FOR PROFILE

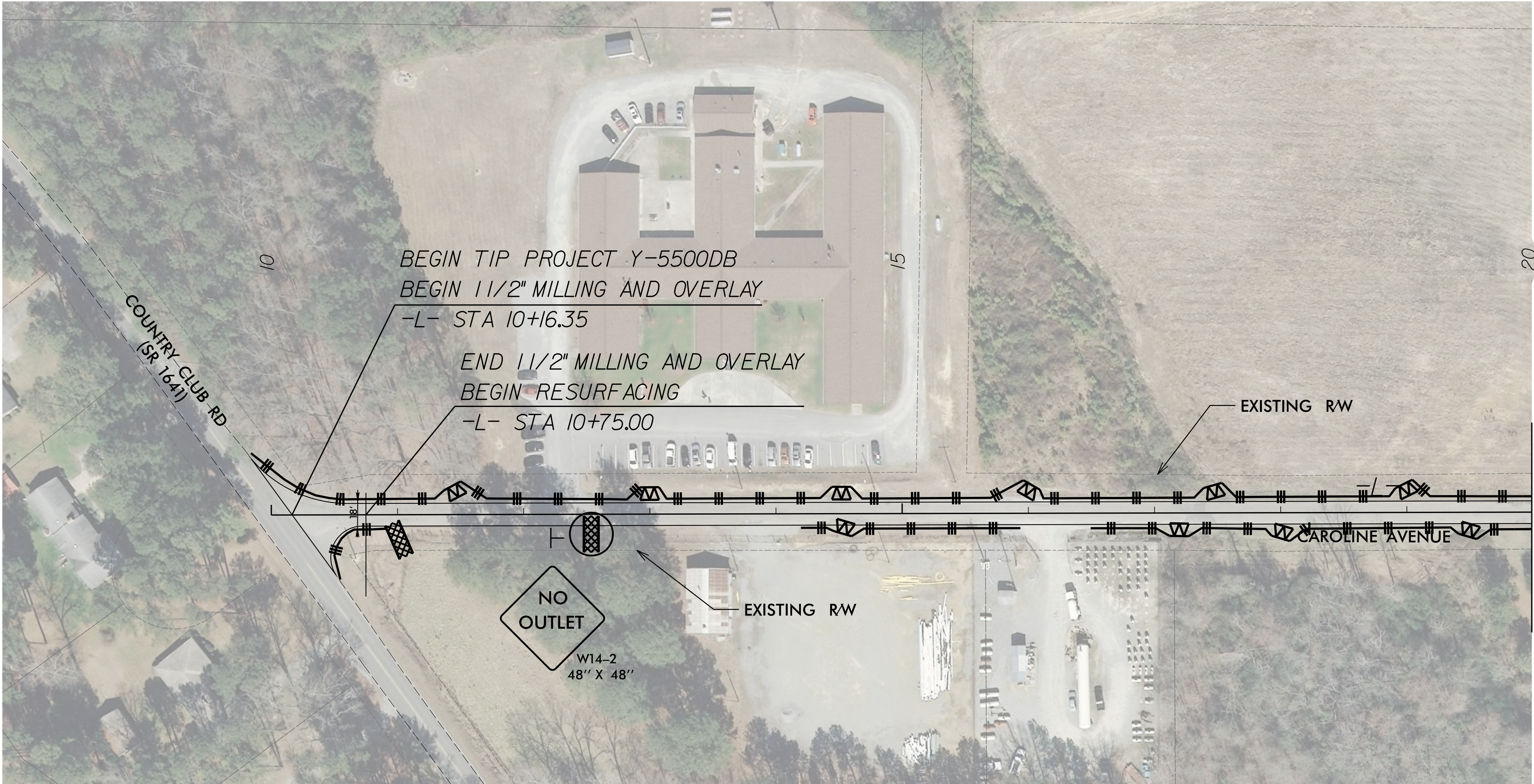
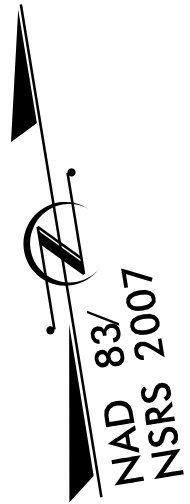
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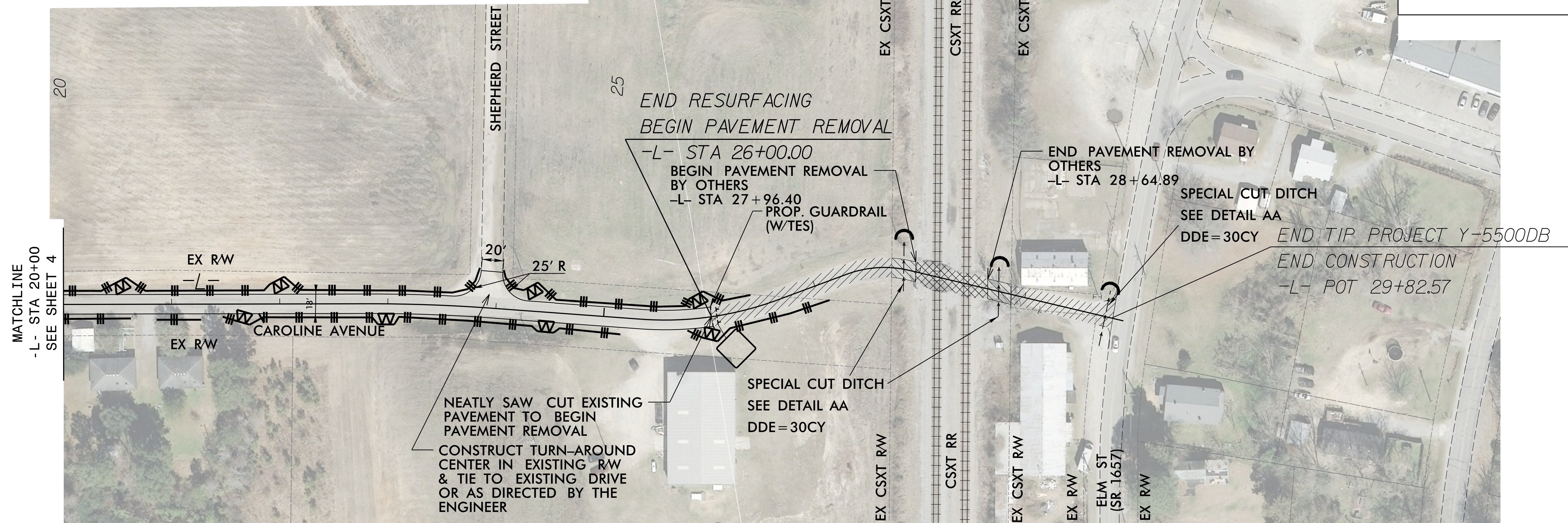


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PROJECT REFERENCE NO.	SHEET NO.
Y-5500DB	EC-6/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	

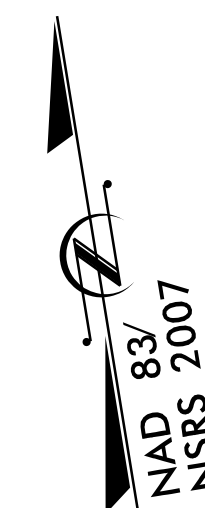
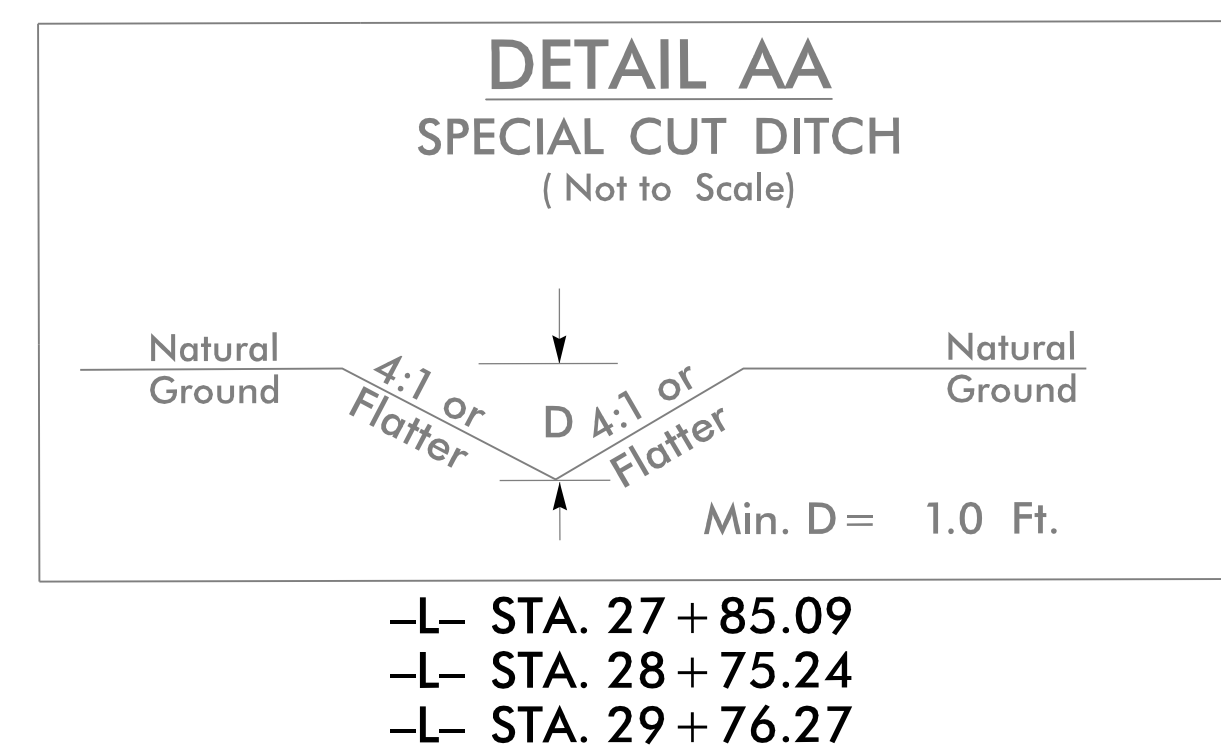


REFER TO SHEET 6 FOR PROFILE


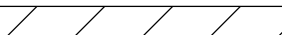



NOTES:

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2. CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 TO LOCATE ALL UNDERGROUND UTILITIES IN THE WORK AREA.
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6. SEE CROSSING CLOSURE DETAIL SHEET 2B.



LEGEND

	OBLITERATE EXISTING PAYMENT
	PAVEMENT TO BE REMOVED BY CSXT
	PAVEMENT REMOVAL OUTSIDE EX. R/W

REFER TO SHEET 6 FOR PROFILE