STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2SP.20541.2	1	15

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

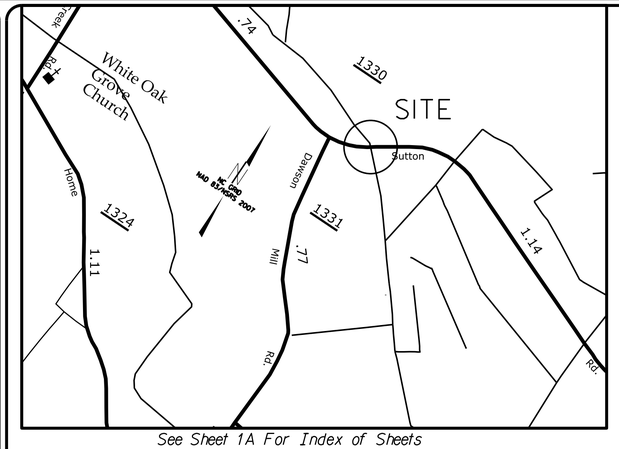
LENOIR COUNTY

LOCATION: SR 1330 (HAROLD SUTTON RD) SITE 2

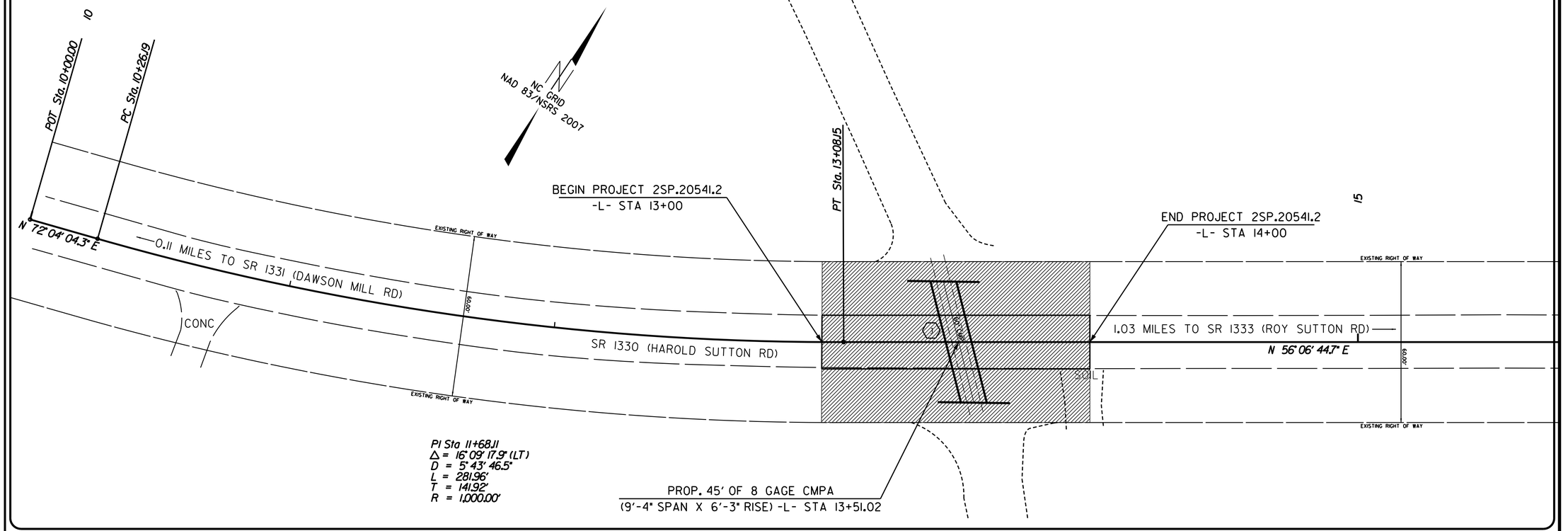
TYPE OF WORK: GRADING, PAVING AND DRAINAGE

PROJECT: 2SP.20541.2

CONTRACT: DB00439



See Sheet 1A For Index of Sheets



GRAPHIC SCALES

PLANS: 20 10 0 20 40

PROFILE (HORIZONTAL): 20 10 0 20 40

PROFILE (VERTICAL): 5 2.5 0 5 10

PROJECT LENGTH

LENGTH PROJECT 2B.205411 = 0.019 MILES

Prepared In the Office of:

DIVISION OF HIGHWAYS

1037 W. H. Smith Blvd. Greenville, NC 27858

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MAY

LETTING DATE: JULY

JEFFREY D. CABANISS, PE
PROJECT ENGINEER

LANG JONES
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D CABANISS

DocuSigned by: Jeffrey D. Cabaniss
SIGNATURE:
P.E. 6/20/2018

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D CABANISS

DocuSigned by: Jeffrey D. Cabaniss
SIGNATURE:
P.E. 6/20/2018

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION

$$$$SYSTIME$$$$
$$$$DGN$$$$
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
2SP.20541.2	1A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018

SUBSURFACE PLANS:

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

GRADING AND SURFACING OR RESURFACING AND WIDENING:

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

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE 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.

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.

UTILITIES:

OWNERS:
WATER_NORTH LENOIR WATER CORP.
TELEPHONE_CENTURYLINK/SUDDEN LINK
POWER_CITY OF KINSTON

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 16, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.2	METHOD OF CLEARING - METHOD II
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
DIVISION 16 - EROSION CONTROL	
1605.01	TEMPORARY SILT FENCE

REVISIONS

8/17/99

12/2/2016

PROJECT REFERENCE NO.	SHEET NO.
2SP.20541.2	1B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

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

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Computed Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- 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 — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- 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 Easement 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 — RW
- New Right of Way Line with Pin and Cap — RW
- New Right of Way Line with Concrete or Granite R/W Marker — RW
- New Control of Access Line with Concrete C/A 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
- Proposed Guardrail
- 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
- 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 — HH
- 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.*) — T FO
- U/G Fiber Optics Cable LOS C (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS D (S.U.E.*) — T FO

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 — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- 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 — S
- 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.

PROJECT REFERENCE NO.	SHEET NO.
2SP.20541.2	2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

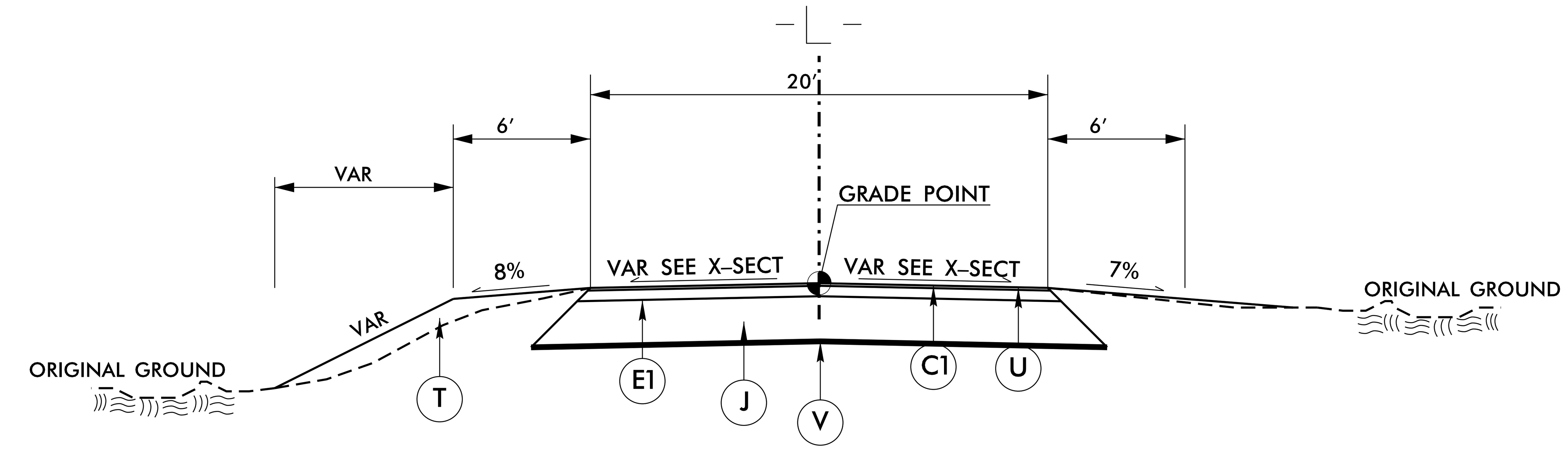
NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS 6/20/2018

NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS 6/20/2018

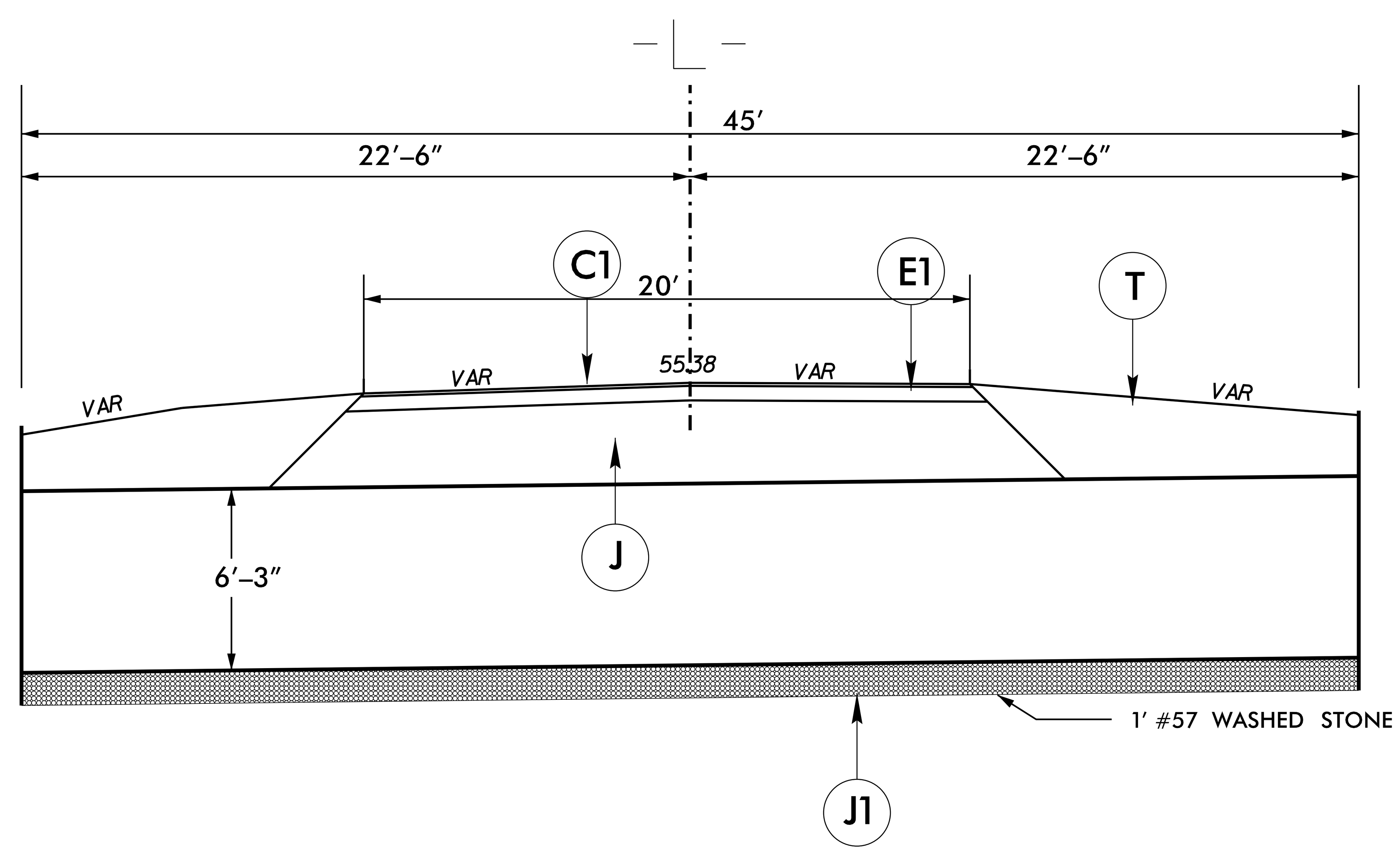
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
J	VARIABLE DEPTH AGGREGATE BASE COURSE
J1	#57 WASHED STONE
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	GEOTEXTILE FOR PAVEMENT STABILIZATION

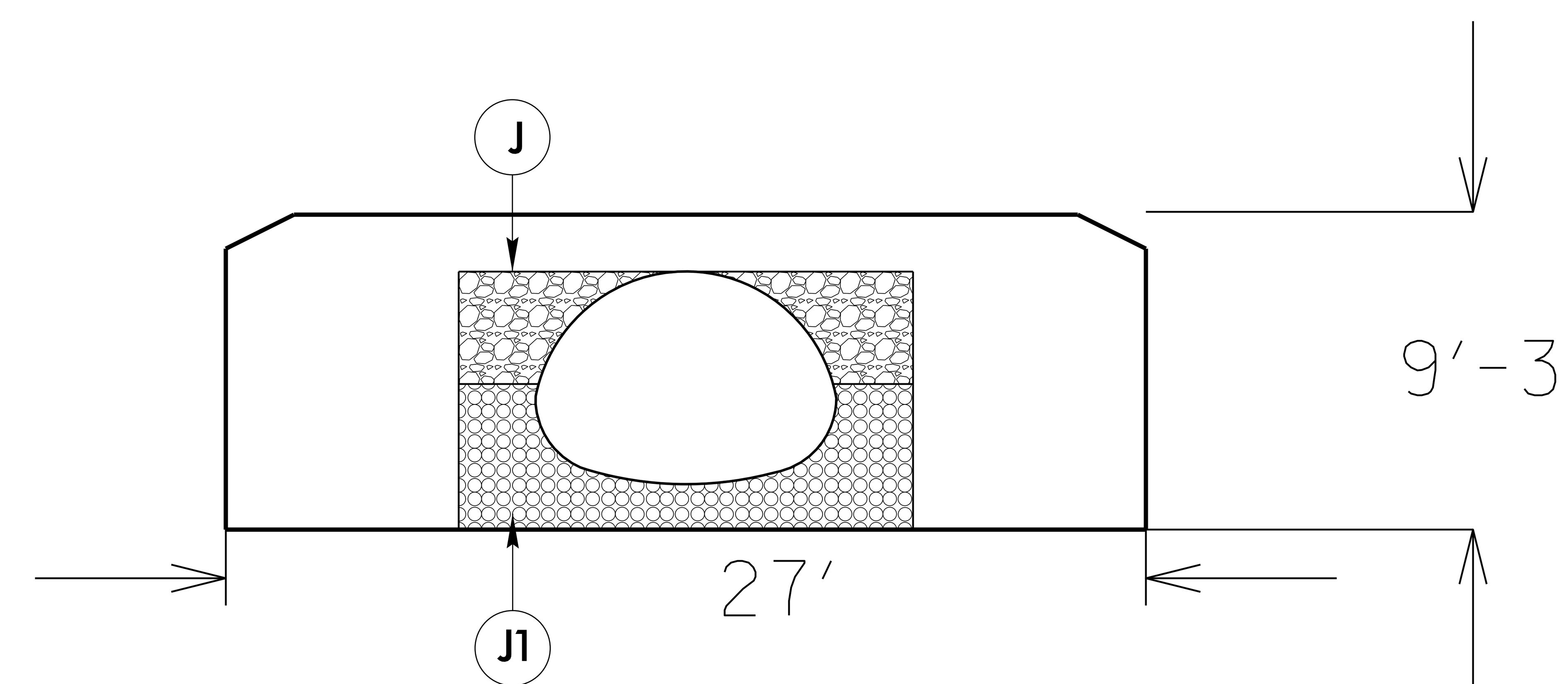
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



USE TYPICAL SECTION #1
-L- 13+00 TO 14+00



SIDE VIEW
-L- 13+51.02



END VIEW
-L- 13+51.02

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
2SP.20541.2	3

REVISIONS

8/17/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

ITEM	SECT	QUANTITY	UNIT	ITEM DESCRIPTION
1	800	1	LS	MOBILIZATION
2	801	1	LS	CONSTRUCTION SURVEYING
3	226	1	LS	GRADING
4	SP	1	LS	112" X 75",8 GAGE,3" X 1" CORR ALUMINUM PIPE WITH 2' WIDE BANDS & 2" WIDE FLAT GASKETS
5	500	200	TON	#57 STONE
6	520	250	TON	AGGREGATE BASE COURSE
7	610	80	TON	ASPHALT CONC BASE COURSE,TYPE B25.0C
8	610	25	TON	ASPHALT CONC SURFACE COURSE,TYPE S9.5B
9	620	10	TON	ASPHALT BINDER FOR PLANT MIX
10	876	110	SY	GEOTEXTILE FOR DRAINAGE
11	SP	275	SY	GEOTEXTILE FOR PAVEMENT STABILIZATION
12	1605	205	LF	TEMPORARY SILT FENCE
13	1660	0.5	ACRE	SEEDING AND MULCHING
14	1661	50	LB	SEED FOR REPAIR SEEDING
15	1661	0.2	TON	FERTILIZER FOR REPAIR SEEDING
16	SP	50	LF	COIR FIBER WATTLE
17	SP	100	SY	COIR FIBER MATTING
18	SP	164	LF	IMPERVIOUS DIKE
19	SP	3	EA	RESPONSE FOR EROSION CONTROL
20	SP	1	LS	DEWATERING

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC.

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE IR OR HDPE PIPE, TYPE S OR D													45 LF OF 112"X75", 8 GAGE 3"X1" CORR ALUMINUM PIPE WITH 2' WIDE BANDS & 2' WIDE FLAT GASKETS	REMARKS
SIZE								15"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	18"	75"	
THICKNESS OR GAUGE		FROM	TO																	PIPE REMOVAL		
-L- 13+51.02	CL	1			46.50	46.50															45'	
TOTALS																					45'	

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300–5".

SUMMARY OF EARTHWORK
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	STRUCTURE EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
-L- 13+00.00 – 14+00.00	41	590	0	17	0	300
SUB TOTAL	41	590	0	17	0	300
SAY	45	600	0	20	0	300

PAVEMENT REMOVAL SUMMARY
IN SQUARE YARDS

LINE	STATION – STATION	LOCATION	REMOVAL (SY)
-L-	13+00.00 – 14+00.00	CL	223
TOTAL			223
SAY			225

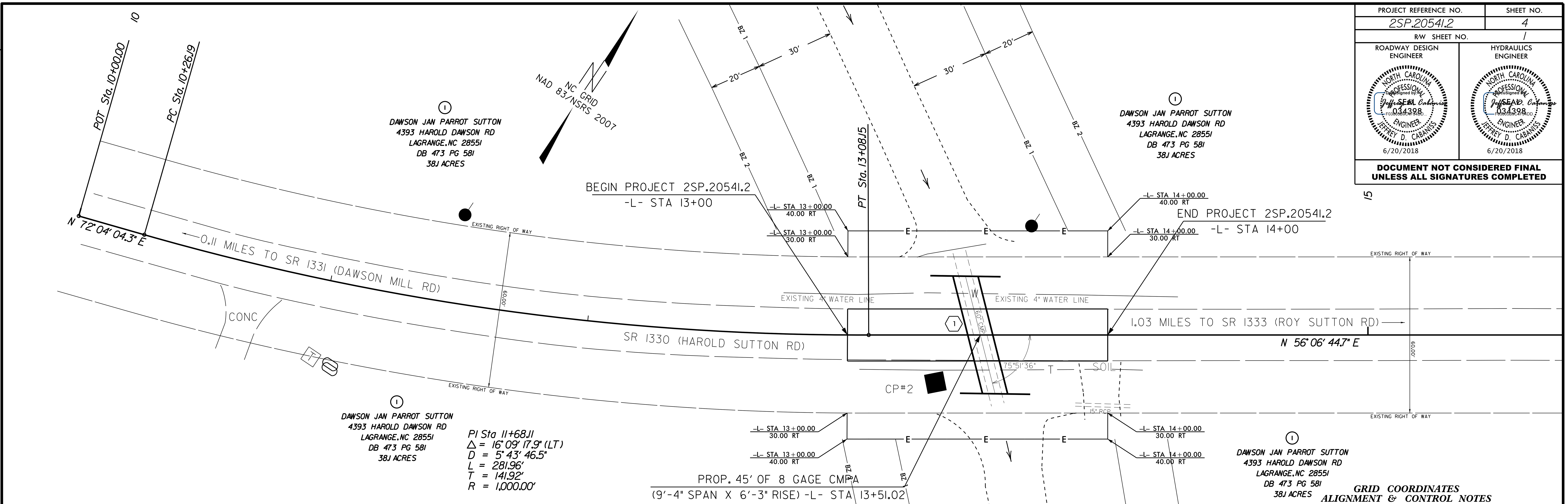
NOTE:

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, UNCLASSIFIED STRUCTURE EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING AND REMOVAL OF EXISTING PAVEMENT.

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
2SP.20541.2	4
RW SHEET NO.	1
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
6/20/2018	6/20/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



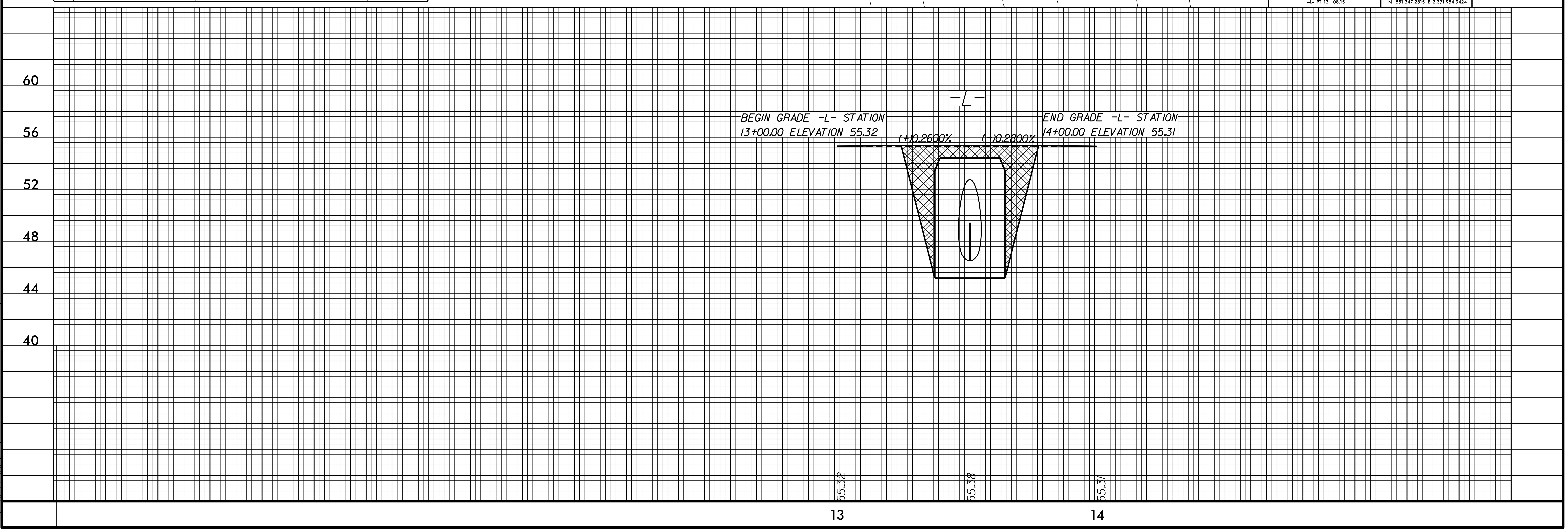
POT Sta. 10+00.00
PC Sta. 10+26.19
10
NC GRID
NAD 83/NSRS 2007
DAWSON JAN PARROT SUTTON
4393 HAROLD DAWSON RD
LAGRANGE.NC 28551
DB 473 PG 581
38.1 ACRES
N 72°04' 04.3" E
0.11 MILES TO SR 1331 (DAWSON MILL RD)
EXISTING RIGHT OF WAY
CONC
SR 1330 (HAROLD SUTTON RD)
PI Sta 11+68.11
Δ = 16°09' 17.9" (LT)
D = 5°43' 46.5"
L = 281.96'
T = 141.92'
R = 1,000.00'
BEGIN PROJECT 2SP.20541.2
-L- STA 13+00
PT Sta. 13+08.15
-L- STA 13+00.00 40.00 RT
-L- STA 13+00.00 30.00 RT
EXISTING 4" WATER LINE
CP#2
75°51'36"
SOIL
PROP. 45' OF 8 GAGE CMPA
(9'-4" SPAN X 6'-3" RISE) -L- STA 13+51.02
END PROJECT 2SP.20541.2
-L- STA 14+00
-L- STA 14+00.00 40.00 RT
-L- STA 14+00.00 30.00 RT
1.03 MILES TO SR 1333 (ROY SUTTON RD)
N 56°06' 44.7" E
15
20'
30'
BZ 1
BZ 2

RIGHT OF WAY AREA SUMMARY

PARCEL NO.	PROPERTY OWNER NAME	LOCATION	TOTAL PARCEL AREA [ACRES]	AREA TO BE (CONST. EASEMENT) [ACRES]	AREA TO BE (TCE) [ACRES]	PARCEL AREA REMAINING [ACRES]
1	DAWSON JAN PARROT SUTTON	RT & LT	38.1		0.046	38.054

GRID COORDINATES ALIGNMENT & CONTROL NOTES

CP #1	N 551,208.4750 E 2,371,562.9540	ELEVATION = 55.43
CP #2	N 551,346.3780 E 2,371,986.3720	ELEVATION = 55.08
CP #3	N 551,548.6280 E 2,372,283.9710	ELEVATION = 54.09
-L- POT 10+00.00	N 551,215.9817 E 2,371,677.4596	
-L- PC 10+26.19	N 551,224.0462 E 2,371,702.3801	
-L- PT 13+08.15	N 551,347.2815 E 2,371,954.9424	



REVISIONS

8/17/99

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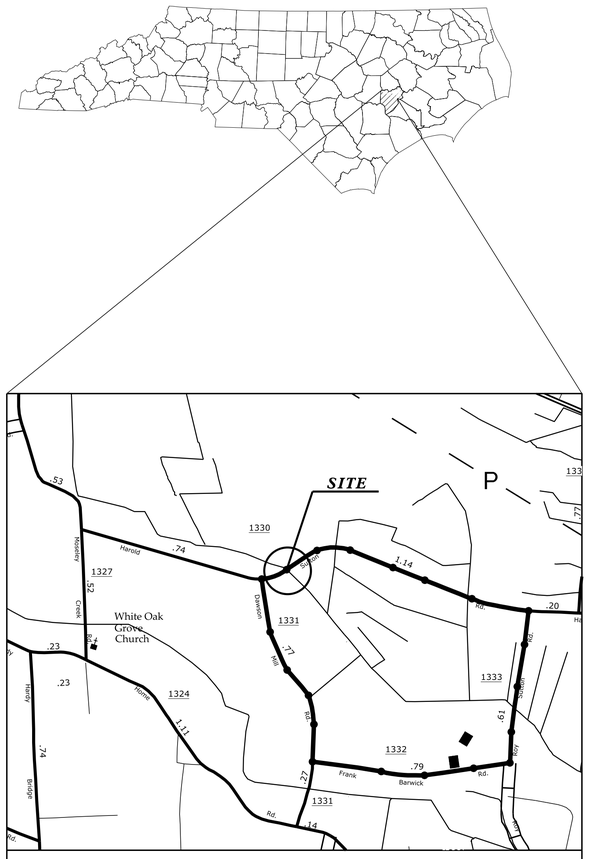

SHEET NO.
TMP-1

STATE PROJECT: 2SP.20541.2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

LENOIR COUNTY

VICINITY MAP
(NOT TO SCALE)

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET WITH VICINITY MAP & INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND.
TMP-2	PROJECT NOTES, DETOUR AND PLANS.

ROADWAY 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 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.03 (SHT. 1 OF 9)	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES (TYPE III)

LEGEND

GENERAL

←	DIRECTION OF TRAFFIC FLOW
↔	DIRECTION OF PEDESTRIAN TRAFFIC FLOW
→	NORTH ARROW
——	PROPOSED PVMT.
- - - - -	EXIST. PVMT.
■	WORK AREA

TRAFFIC CONTROL DEVICES

▨	BARRICADE (TYPE III)

WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1037 WH SMITH BLVD, GREENVILLE, NC 27834
PHONE: (252) 439-2840 FAX: (252) 830-3352

JEFFREY D. CABANISS, PE	TRAFFIC ENGINEER
JEFFREY D. CABANISS, PE	TRAFFIC CONTROL PROJECT ENGINEER
LANG JONES	TRAFFIC CONTROL PROJECT DESIGN ENGINEER
LANG JONES	TRAFFIC CONTROL DESIGN ENGINEER

DocuSigned by:
APPROVED: Jeffrey D. Cabaniss
F03805B9C4F54DD...
DATE: 6/20/2018

SEAL
SEAL 034398
JEFFREY D. CABANISS

20-JUN-2018 07:40
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$$$$USERNAME$$$$

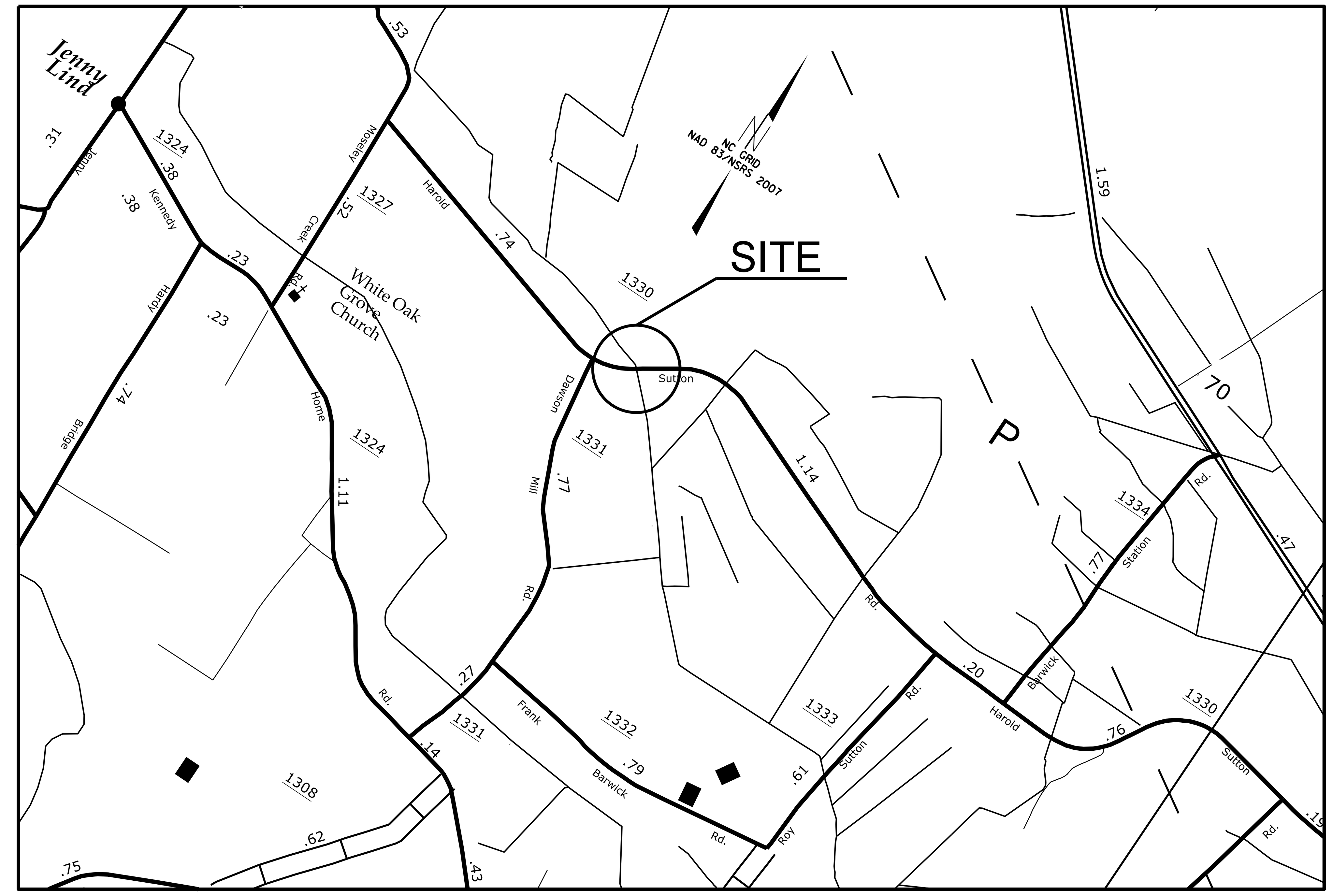
PROJ. REFERENCE NO.	SHEET NO.
2SP.20541.2	TMP-2

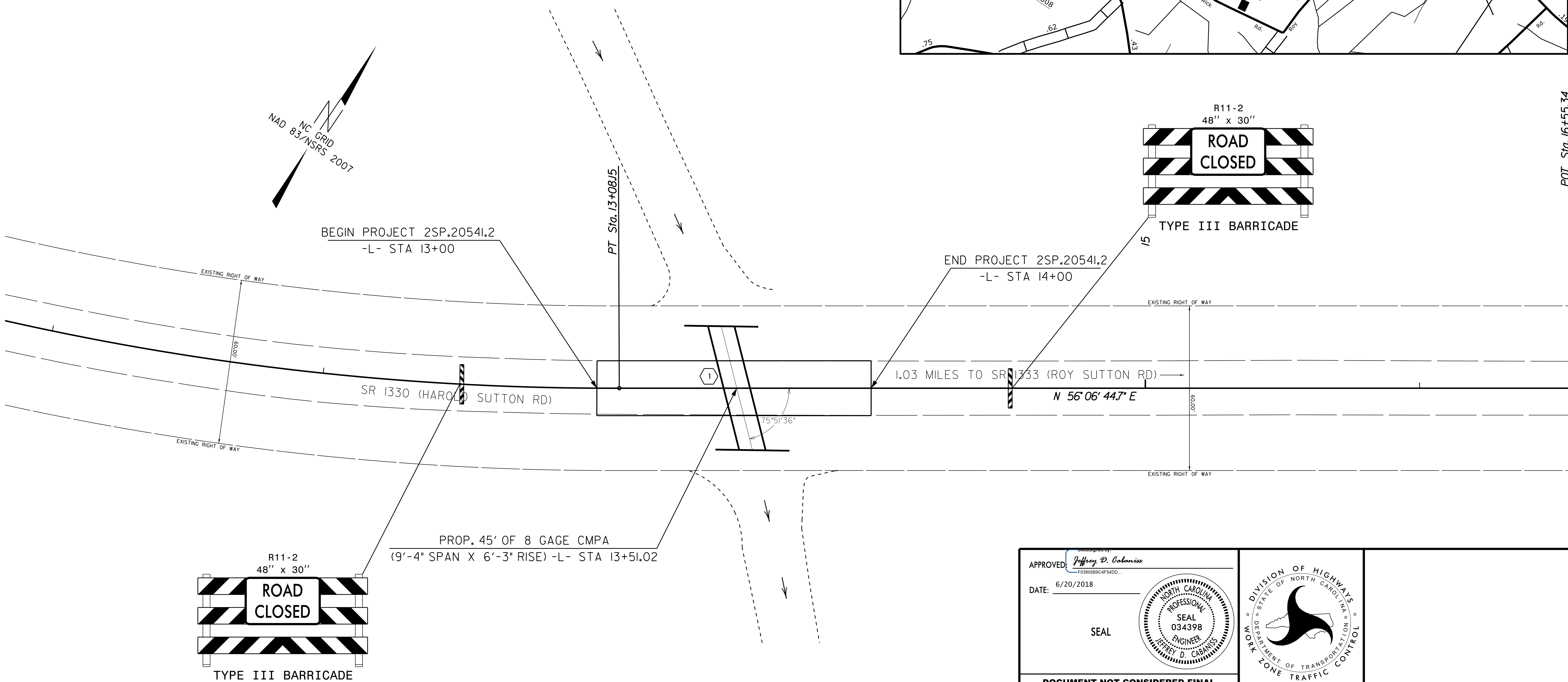
GENERAL NOTES

IMPLEMENT TRAFFIC CONTROL IN ACCORDANCE WITH THE ROADWAY STANDARD DRAWINGS LISTED ON TMP-1.

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.

STATE FORCES WILL INSTALL AND MAINTAIN THE PROJECT DETOUR AND THE TYPE III BARRICADES AT THE PROJECT LIMITS.
STATE FORCES WILL INSTALL PAINT AND MARKERS ON THE FINISHED PROJECT.
CALL JEFFREY DUNNING AT 252-830-3493 FOR COORDINATION.





APPROVED: Jeffrey D. Cabaniss

DATE: 6/20/2018

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS

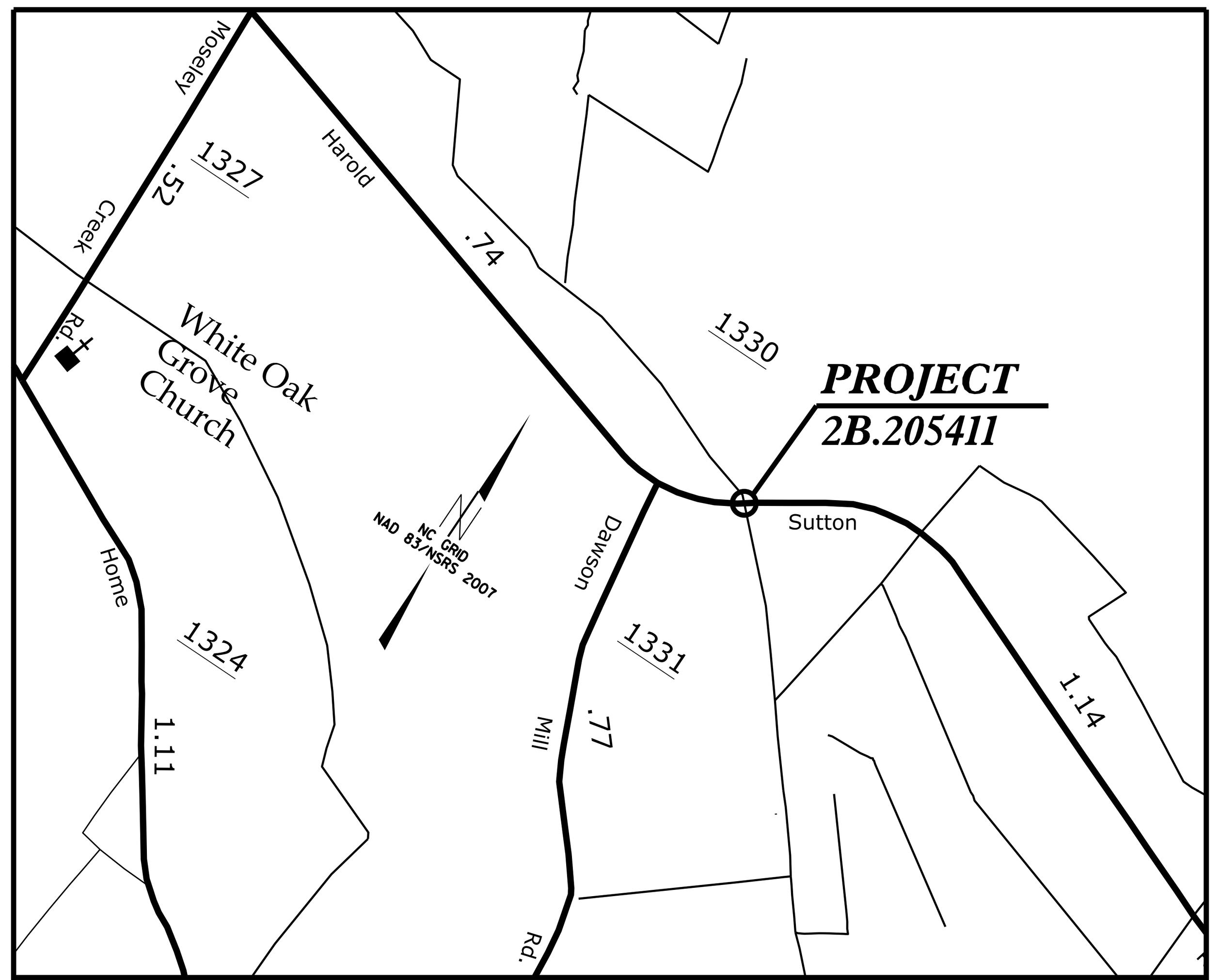
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

PROJECT: 2SP.205412

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2SP.20541.2	EC-1	4

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION



VICINITY MAP
(NOT TO SCALE)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

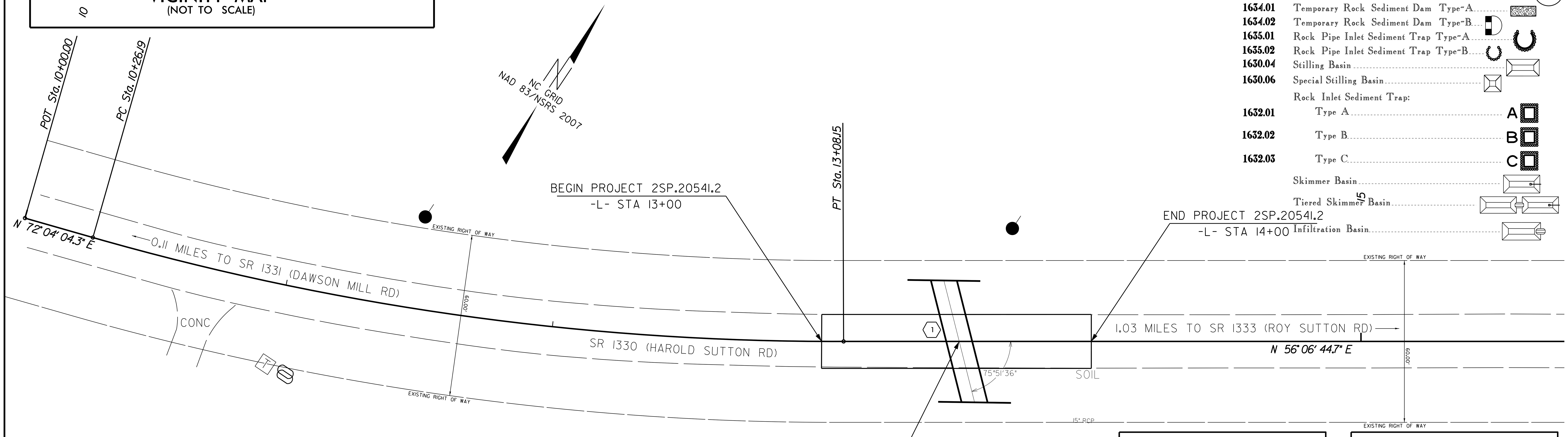
LENOIR COUNTY

LOCATION: SR 1330 (HAROLD SUTTON RD) SITE # 2

TYPE OF WORK: GRADING, PAVING AND DRAINAGE

EROSION AND SEDIMENT CONTROL MEASURES

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



PI Sta 11+68.11
Δ = 16° 09' 17.9" (LT)
D = 5° 43' 46.5"
L = 281.96'
T = 141.92'
R = 1,000.00'

PROP. 45' OF 8 GAGE CMPA
(9'-4" SPAN X 6'-3" RISE) -L- STA 13+51.02

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE

10 0 20

PLANS

DIVISION TWO DDC UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

2018 STANDARD SPECIFICATIONS

Prepared In the Office of:

DIVISION 2 DDC
1037 WH SMITH BLVD
GREENVILLE, NC 27834

Timothy Pinkham
Level III
Certification #3510

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 revison 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		

PROJECT REFERENCE NO.	SHEET NO.
2SP.20541.2	EC2

8/17/99

REVISIONS

POT Sta. 10+00.00

PC Sta. 10+26.19

10

N 72° 04' 04.3" E

0.11 MILES TO SR 1331 (DAWSON MILL RD)

CONC

SR 1330 (HAROLD SUTTON RD)

EXISTING RIGHT OF WAY

60.00'

EXISTING RIGHT OF WAY

① DAWSON JAN PARROT SUTTON
4393 HAROLD DAWSON RD
LAGRANGE, NC 28551
DB 473 PG 581
38.1 ACRES

NAD 83/NSRS 2007
NC GRID

① DAWSON JAN PARROT SUTTON
4393 HAROLD DAWSON RD
LAGRANGE, NC 28551
DB 473 PG 581
38.1 ACRES

PI Sta 11+68.11
Δ = 16° 09' 17.9" (LT)
D = 5° 43' 46.5"
L = 281.96'
T = 141.92'
R = 1,000.00'

BEGIN PROJECT 2SP.20541.2
-L- STA 13+00

PROP. 45' OF 8 GAGE CMPA
(9'-4" SPAN X 6'-3" RISE) -L- STA 13+51.02

PT Sta. 13+08.15

BZ 1 — 20' — BZ 2 — 30' — BZ 1

-L- STA 13+00.00
40.00 RT

-L- STA 13+00.00
30.00 RT

DIFFUSER BARREL

-L- STA 14+00.00
40.00 RT

-L- STA 14+00.00
30.00 RT

END PROJECT 2SP.20541.2
-L- STA 14+00

15

EXISTING RIGHT OF WAY

EXCELSIOR MATTING CAN NOT BE USED
WITHIN 25' OF THE TOP OF THE STREAM BANK

IMPERVIOUS DIKE

EXISTING 4" WATER LINE

PUMP(S)

W

60' CBP

1.03 MILES TO SR 1333 (ROY SUTTON RD)

N 56° 06' 44.7" E

75°51'36"

SOIL

SILT BAG
(Std.Dwg. 1630.06)

PUMP(S)

IMPERVIOUS DIKE

EXISTING RIGHT OF WAY

-L- STA 13+00.00
30.00 RT

-L- STA 13+00.00
40.00 RT

-L- STA 14+00.00
30.00 RT

-L- STA 14+00.00
40.00 RT

① DAWSON JAN PARROT SUTTON
4393 HAROLD DAWSON RD
LAGRANGE, NC 28551
DB 473 PG 581
38.1 ACRES

BZ 2 — 20' — BZ 1 — 30' — BZ 2

20-JUN-2018 07:40
C:\PROJECTS\ENGR\SR 1330 Harold Sutton Rd Pipe\Site2\SR.1330.ec2.dgn
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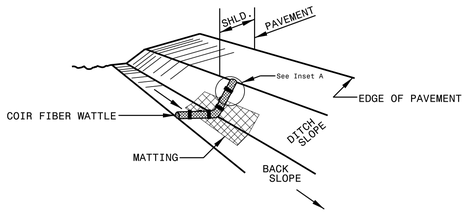
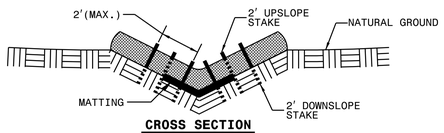
PROJECT REFERENCE NO.	SHEET NO.
2SP.20541.2	EC-3

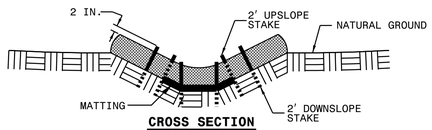
COIR FIBER WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION
VEE DITCH



CROSS SECTION
TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 18 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

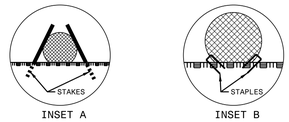
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

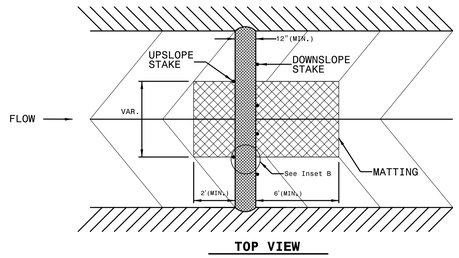
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.



INSET A INSET B

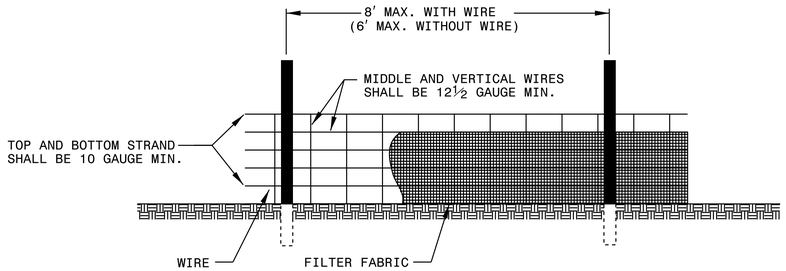


TOP VIEW

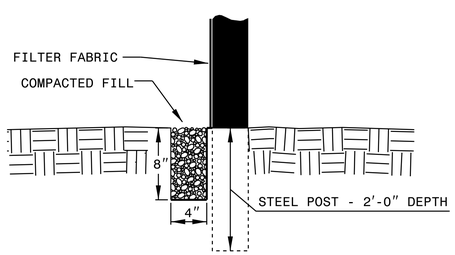
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

SHEET 1 OF 1
1605.01



NOTES
USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
USE FILTER FABRIC A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.



EXTENSION OF FABRIC AND WIRE INTO TRENCH

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

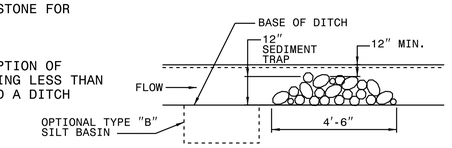
ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

SHEET 1 OF 1
1605.01

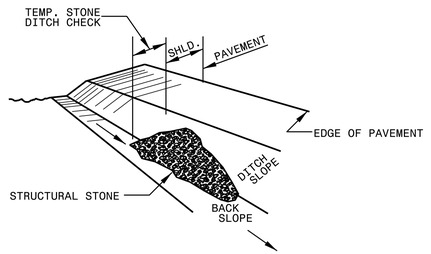
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

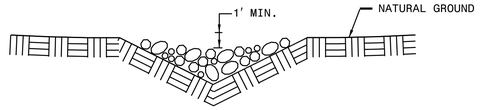
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



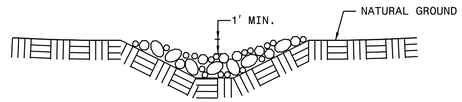
ELEVATION VIEW



ISOMETRIC VIEW



CROSS SECTION
VEE DITCH



CROSS SECTION
TRAPEZOIDAL DITCH

SHEET 1 OF 1
1633.02

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL
ENGLISH STANDARD DRAWING FOR

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

PROJECT REFERENCE NO.	SHEET NO.
2SP.20541.2	EC4

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS–SETION SUMMARY

IN CUBIC YARDS

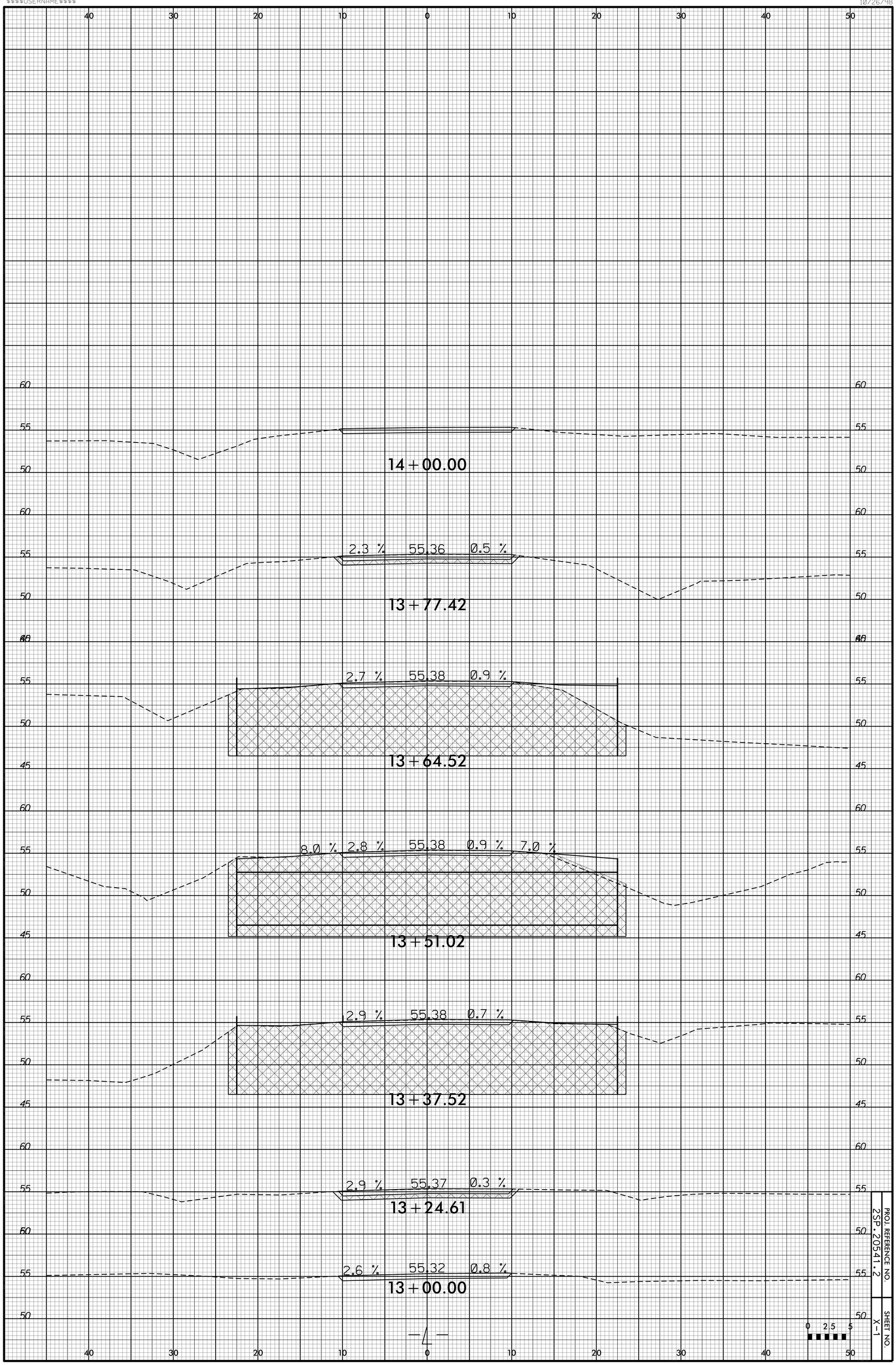
LOCATION (–L–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT	STRUCTURE EXCAVATION
13+00.00	0	0	0	0
13+24.61	10	0	0	0
13+37.52	5	0	0	95
13+50.00	5	0	3	190
13+64.52	6	0	9	215
13+77.42	5	0	5	90
14+00.00	10	0	0	0

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

NOTE:
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, UNCLASSIFIED STRUCTURE EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING AND REMOVAL OF EXISTING PAVEMENT.

REVISIONS

8/17/99



PROJ. REFERENCE NO. 2SP-20541.2

SHEET NO. X-1