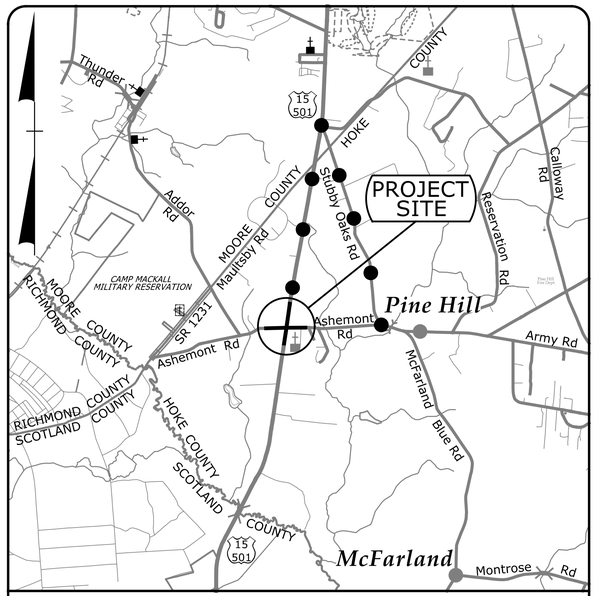
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09/08/99

TIP PROJECT: W-5708A

CONTRACT:

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



VICINITY MAP
NOT TO SCALE

DETOUR

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

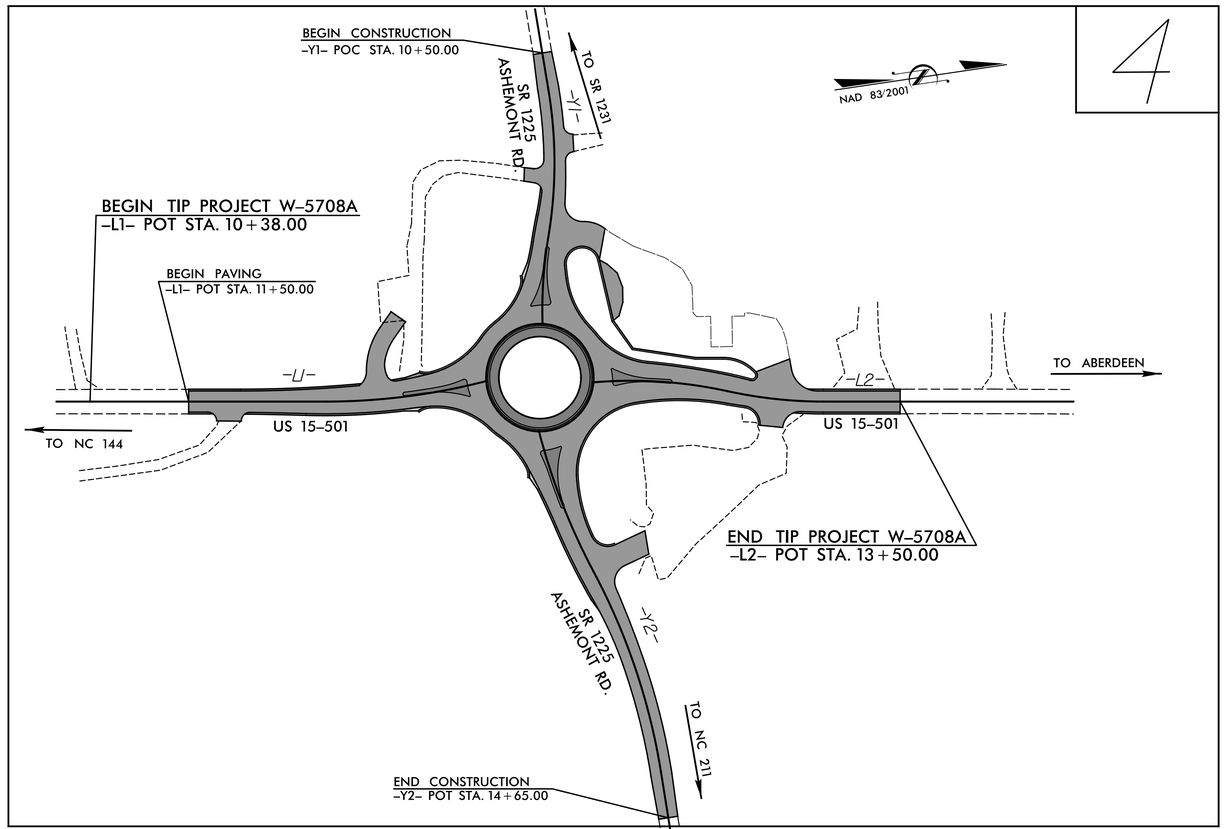
HOKE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5708A	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
44854.1.1	HSIP-0015(055)	PE
44854.2.1	HSIP-0015(055)	R/W, UTIL.
44854.3.1	HSIP-0015(055)	CONST.

LOCATION: INTERSECTION OF US 15-501 AND SR 1225 (ASHEMONT ROAD) SOUTH OF ABERDEEN

TYPE OF WORK: GRADING, PAVING AND DRAINAGE



4



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

PLANS: 50 25 0 50 100

PROFILE (HORIZONTAL): 50 25 0 50 100

PROFILE (VERTICAL): 10 5 0 10 20

DESIGN DATA

ADT 2018 = 7,645
ADT 2035 = 11,300
K = %
D = 50 %
T = 10 % *
V = 30 MPH
* (TTST = 5% DUAL = 5%)

FUNC CLASS:
MINOR ARTERIAL – US 15-501
MINOR COLLECTOR – SR 1225

PROJECT LENGTH

TOTAL LENGTH OF PROJECT W-5708A = 0.154 MI

Prepared for the North Carolina Department of Transportation In the Office of:

VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JULY 21, 2017

LETTING DATE: MARCH 26, 2019

JIMMY GOODNIGHT, PE
PROJECT ENGINEER

JERRY JAVELLANA, PE
PROJECT DESIGN ENGINEER

NCDOT CONTACT GREG DAVIS, PE
DIVISION DESIGN ENGINEER

HYDRAULICS ENGINEER

2/5/2019

NORTH CAROLINA PROFESSIONAL SEAL 18533 ENGINEER ANDREW T NOTTINGHAM

DocuSigned by: Andrew T. Nottingham
P.E.
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ROADWAY DESIGN ENGINEER

2/5/2019

NORTH CAROLINA PROFESSIONAL SEAL 014493 ENGINEER James Stafford Goodnight Jr

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P.E.
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STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

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PROJECT REFERENCE NO.	SHEET NO.
W-5708A	1A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 014493 ENGINEER James Stafford Goodnight

2/5/2019

DocuSigned by: Jimmy Goodnight 84CB24C43AFE4EB...

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, STANDARD DRAWINGS, AND GENERAL NOTES
1B	CONVENTIONAL SYMBOLS
1C-1	SURVEY CONTROL SHEET
2A-1 THRU 2A-2	PAVEMENT SCHEDULE, TYPICAL SECTIONS
2B-1	ROUNDABOUT DETAIL SHEET
2C-1	MILLED RUMBLE STRIPS
2H-1	STOCKPILE CONTAINMENT DETAIL
3A-1 THRU 3A-2	SUMMARY OF QUANTITIES
3B-1	EARTHWORK SUMMARY, REMOVAL OF EXISTING ASPHALT PAVEMENT, BREAKING OF EXISTING ASPHALT PAVEMENT
3D-1	DRAINAGE SUMMARY
4 THRU 6	PLAN AND PROFILE SHEETS
7 THRU 8	OFF-SITE DETOUR ROUTE IMPROVEMENTS, OFF-SITE RESURFACING DETAILS
TMP-1 THRU TMP-8	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-3	PAVEMENT MARKING PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
UC-1 THRU UC-5	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS
X-1A	CROSS-SECTION SUMMARY
X-1 THRU X-15	CROSS-SECTIONS

2018 ROADWAY ENGLISH STANDARD DRAWINGS — EFF. 01-16-2018 REV.

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
- 200.03 METHOD OF CLEARING - METHOD III
- 225.02 GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
- 225.04 METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
- 225.06 METHOD OF GRADING SIGHT DISTANCE AT INTERSECTIONS

DIVISION 3 - PIPE CULVERTS
- 300.01 METHOD OF PIPE INSTALLATION

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
- 560.01 METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE - METHOD I

DIVISION 6 - ASPHALT BASES AND PAVEMENTS
- 654.01 PAVEMENT REPAIRS

DIVISION 8 - INCIDENTALS
- 838.01 CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS - 15" THRU 48" PIPE 90 SKEW
- 838.11 BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS - 15" THRU 48" PIPE 90 SKEW
- 840.00 CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
- 840.01 BRICK CATCH BASIN - 12" THRU 54" PIPE
- 840.02 CONCRETE CATCH BASIN - 12" THRU 54" PIPE
- 840.03 FRAME, GRATES AND HOOD - FOR USE ON STANDARD CATCH BASIN
- 840.14 CONCRETE DROP INLET - 12" THRU 30" PIPE
- 840.15 BRICK DROP INLET - 12" THRU 30" PIPE
- 840.16 DROP INLET FRAME AND GRATES - FOR USE WITH STD. DWG 840.14 AND 840.15
- 840.17 CONCRETE GRATED DROP INLET TYPE 'A' - 12" THRU 72 PIPE
- 840.19 CONCRETE GRATED DROP INLET TYPE 'D' - 12" THRU 36" PIPE
- 840.24 FRAMES AND NARROW SLOT SAG GRATES
- 840.28 BRICK GRATED DROP INLET TYPE 'D' - 12" THRU 36" PIPE
- 840.31 CONCRETE JUNCTION BOX - 12" THRU 66" PIPE
- 840.32 BRICK JUNCTION BOX - 12" THRU 66" PIPE
- 840.34 TRAFFIC BEARING JUNCTION BOX - FOR USE WITH PIPES 42" AND UNDER
- 840.54 MANHOLE FRAME AND COVER
- 840.66 DRAINAGE STRUCTURE STEPS
- 840.72 PIPE COLLAR
- 846.01 CONCRETE CURB, GUTTER AND CURB & GUTTER
- 848.01 CONCRETE SIDEWALK
- 848.02 DRIVEWAY TURNOUT - RADIUS TYPE
- 848.04 STREET TURNOUT
- 848.05 CURB RAMP - PROPOSED CURB & GUTTER
- 852.01 CONCRETE ISLANDS
- 852.06 METHOD FOR PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS
- 876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

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.

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

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

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

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

STREET TURNOUT:
STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.04 USING THE RADII NOTED ON PLANS.

TEMPORARY SHORING:
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE LREMC - POWER, WINDSTREAM - COMMUNICATIONS, TWC/SPECTRUM - COMMUNICATIONS, NETWORK ENTERPRISE CENTER - COMMUNICATIONS, AND HOKE CO WATER.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

RIGHT-OF-WAY MARKERS:
ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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jgoodwin

12/2/2016

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	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.
W-5708A	1-C
RW SHEET NO.	

SURVEY CONTROL SHEET

-BY1- 15+00.00
BL -102

NAD 83 NC GRID NA 2011

-BL- 15+00.00
SR1114-2 (GPS)

S 88° 10' 08.7" E

-BL- 319+09.16
BL -101

N 11° 52' 52.0" E

N 3° 30' 03.7" E

-BL- 2 13+33.40
-BY1- 9+74.96
SR1114-1 (GPS)=

N 82° 49' 37.1" E

-BY1- 114+94.89
BL -102

NOT TO SCALE

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "SR1114-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 473007.3160(ft) EASTING: 1869921.5690(ft) ELEVATION: 349.896(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9998671224
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "SR1114-1" TO -L- 10+00.00 STATION IS N11°25'30"E 581.28'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

==========

DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE NAD83/NA 2011 STATE PLANE COORDINATES FOR THE NCDOT GPS MONUMENT "SR1114-1" WITH A NORTHING: 473007.3160, EASTING: 1869921.5690.
THE AVERAGE COMBINED FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS 0.9998671224
ALL LINEAR DISTANCES ARE LOCALIZED HORIZONTAL DISTANCES.
THE VERTICAL DATUM IS BASED ON NCDOT MONUMENT "SR1114-1"(ELEV. 349.896')(NAVD 88).

TIE LINE: BEARING AND DISTANCE FROM NCDOT MONUMENT "SR1114-1" TO BL-101
N 3°30' 03.7" E Distance 575.768'

Point#	North(Y)	East(X)	Elev(Z)	Description
Pt 1	N 473007.3160	E 1869921.5690	Z 349.8960	SR1114-1
Pt 2	N 472191.7730	E 1869749.9880	Z 342.2900	SR1114-2
Pt 101	N 473582.0090	E 1869956.7290	Z 358.3000	BL-101
Pt 102	N 473022.4910	E 1869446.8490	Z 351.9100	BY1-102
Pt 103	N 473072.2370	E 1870437.4240	Z 336.7400	BY1-103

==========

NCDOT GPS CONTROL MONUMENTS LOCALIZED

Point	North	East	Elevation
SR1114-1	473007.3160	1869921.5690	349.896'
SR1114-2	472191.7730	1869749.9880	342.290'

==========

Chain BL Contains:
2 1 101
-BL- US HWY 15-501

==========

2 (SR1114-2) N 472191.7730 E 1869749.9880 ELEV 342.29 STA 5+00.00

Course from 2 to 1 N 11^52'52.0" E Dist 833.40

1 (SR1114-1) N 473007.3160 E 1869921.5690 ELEV 349.90 STA 13+33.40
=BY1 Sta 9+74.96
Course from 1 to 101 N 3^30'3.7" E Dist 575.77

101 (BL-101) N 473582.0090 E 1869956.7290 ELEV 358.30 STA 19+09.16

==========

Chain BY1 Contains:
102 1 103
-BY1- ASHEMONT RD (SR 1114)

==========

102 (BY1-102) N 473022.4910 E 1869446.8490 ELEV 351.91 STA 5+00.00

Course from 102 to E1 S 88^10'8.7" E Dist 474.96

1 (SR1114-1) N 473007.3160 E 1869921.5690 ELEV 349.90 STA 9+74.96
=BL Sta 13+33.40
Course from E1 to 103 N 82^49'37.1" E Dist 519.92

103 (BY1-103) N 473072.2370 E 1870437.4240 ELEV 336.74 STA 14+94.89

==========

REVISIONS

8/17/99

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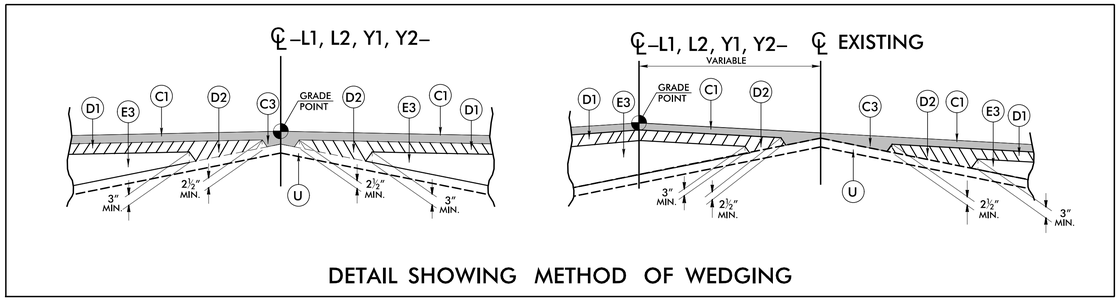
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6/2/99

FINAL PAVEMENT SCHEDULE

A1	7" TH.CLASS 'A' CONCRETE TRUCK APRON, REINFORCED WITH 6X6 W4-W4 WELDED WIRE MESH, CONTROL JOINTS 10' o.c. EXPANSION JOINTS 90' o.c. BROOM FINISH.
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	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
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 9" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH
J	PROP. 8" AGGREGATE BASE COURSE
R1	1'-6" CONCRETE CURB AND GUTTER
R2	2'-6" CONCRETE CURB AND GUTTER
R3	EXPRESSWAY GUTTER
R4	5" MONOLITHIC CONCRETE ISLAND (KEYED IN)
R5	4" CONCRETE ISLAND COVER
SM	SELECT BORROW MATERIAL
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	MILLING BITUMINOUS PAVEMENT, VARIABLE DEPTH (1.5" MAX.)
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

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



DETAIL SHOWING METHOD OF WEDGING

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	2A-1

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 014493 ENGINEER Jimmy Goodnight Stafford Goodnight

Jimmy Goodnight 2/21/2019

PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

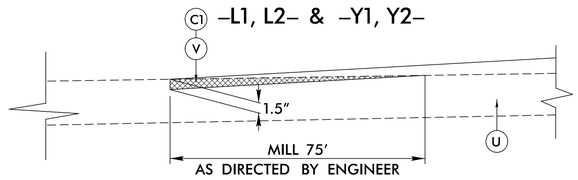
Greg S. Davis 2/21/2019

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared by

vhb
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

TIE–IN MILLING DETAIL
(USE IN CONJUNCTION WITH TYPICAL SECTION NOS. 2 & 3)

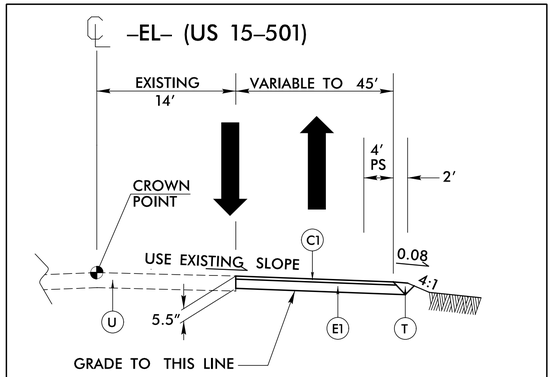


NOTES TO CONTRACTOR

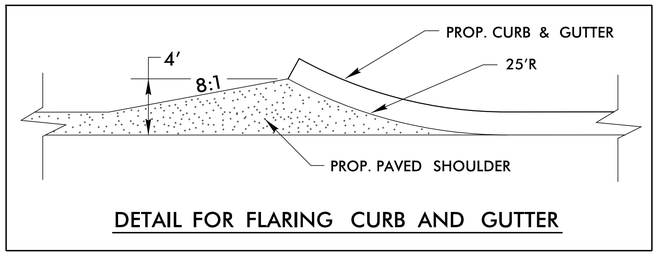
For surface mixes over 1" in thickness, mill the existing pavement in accordance with the following sketch as directed by the Engineer.

Locations shall include ties into existing concrete pavement, at bridge approaches where the bridge will not be resurfaced, and at the beginning and ending point of each resurfacing map.

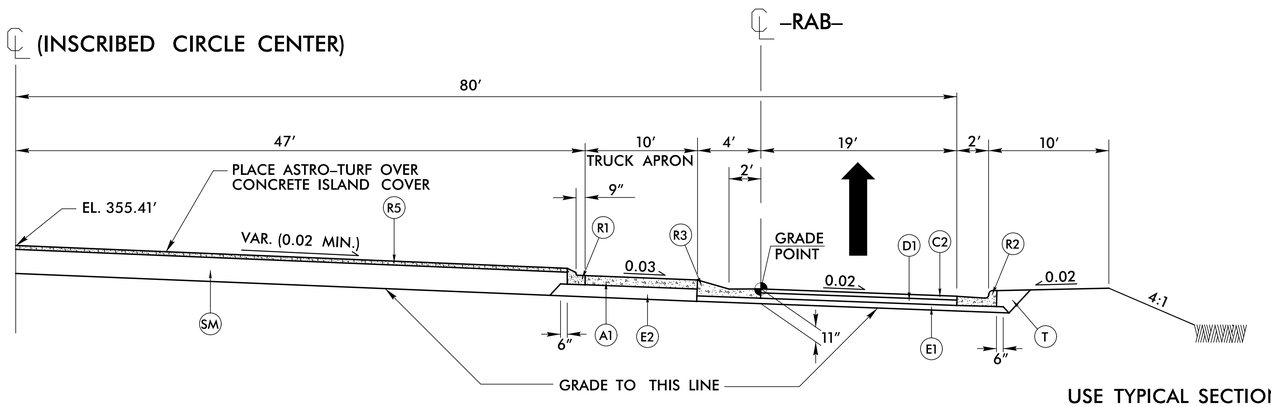
Perform the work in accordance with Section 607 of the January 2018 North Carolina Department of Transportation Standard Specifications for Roads and Structures. Resurfacing will be accomplished at the same time as the milling operation.



DETAIL SHOWING TEMPORARY PAVEMENT
–L_TMP3– STA. 10+92.46 TO STA 15+65.85 RT. (SEE SHEET 4A)



DETAIL FOR FLARING CURB AND GUTTER



TYPICAL SECTION NO. 1 (ROUNDABOUT)

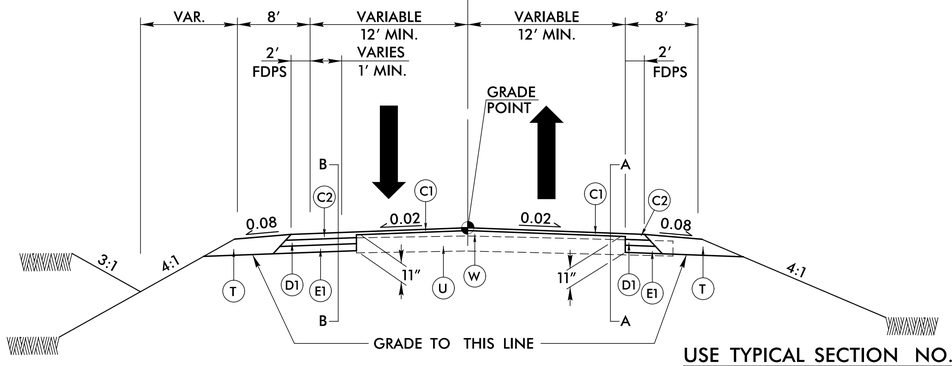
USE TYPICAL SECTION NO. 1
–RAB– STA. 10+00.00 TO STA. 13+83.27

2/5/2019
kgriffin
dy_typ.dgn
typ_sheet

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6/2/99

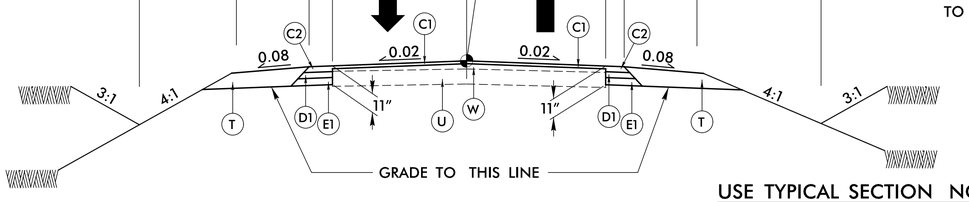
–L1–, –L2– (US 15–501)



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2
–L1– STA. 11+50.00 TO STA. 14+70.57
–L2– STA. 10+19.18 TO STA. 13+50.00

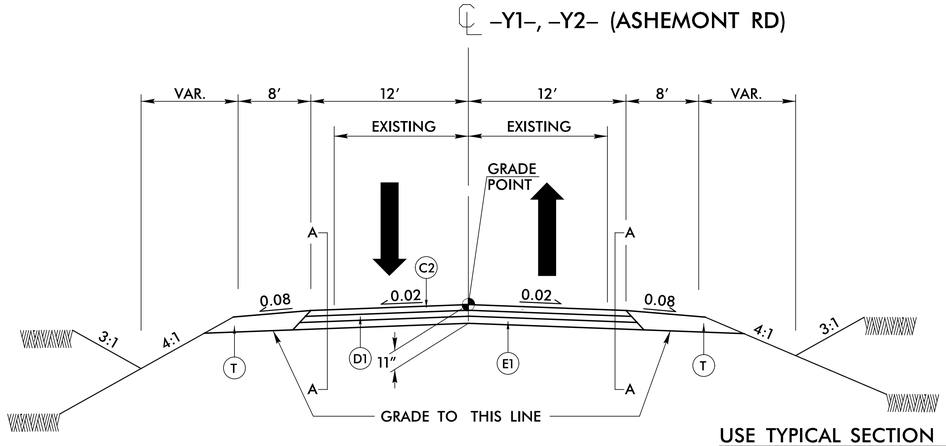
–Y1–, –Y2– (ASHEMONT RD)



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3
–Y1– STA. 10+50.00 TO STA. 12+00.00
–Y2– STA. 12+90.00 TO STA. 14+65.00

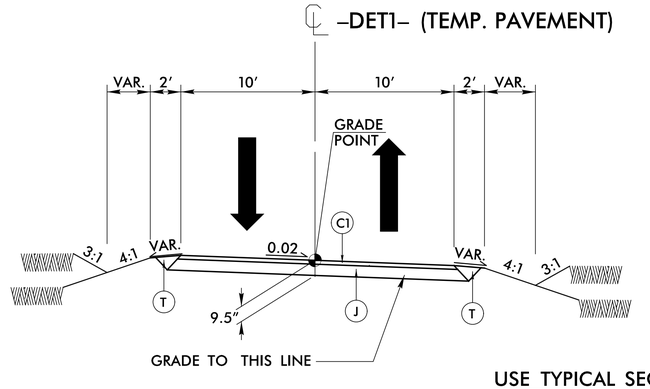
–Y1–, –Y2– (ASHEMONT RD)



TYPICAL SECTION NO. 4

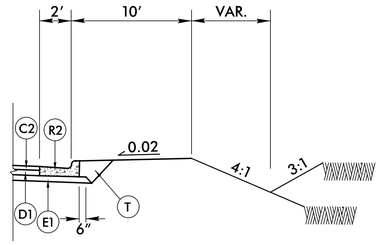
USE TYPICAL SECTION NO. 4
–Y1– STA. 12+00.00 TO STA. 13+40.25
–Y2– STA. 10+19.60 TO STA. 12+90.00

–DET1– (TEMP. PAVEMENT)



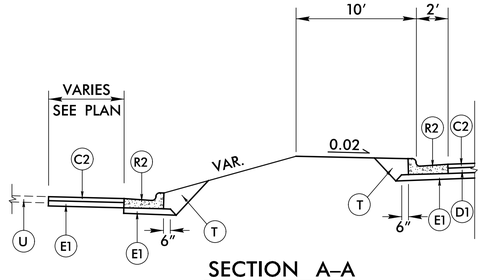
TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5
–DET1– STA. 10+00.00 TO STA. 13+40.42
(SEE SHEET 4A)



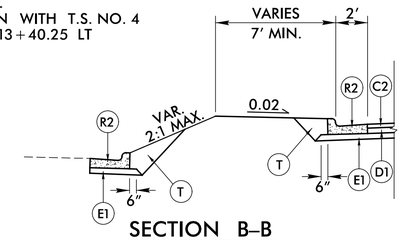
SECTION A–A

TO BE USED IN CONJUNCTION WITH T.S. NO. 2 & 4
–L1– STA. 14+15.68 TO STA. 14+70.57 LT (MIRROR IMAGE)
–L1– STA. 14+08.03 TO STA. 14+70.57 RT
–L2– STA. 10+19.18 TO STA. 11+94.83 RT
–Y1– STA. 13+06.02 TO STA. 13+40.25 RT
–Y2– STA. 10+19.60 TO STA. 11+55.04 LT (MIRROR IMAGE)
–Y2– STA. 10+19.60 TO STA. 10+46.74 RT



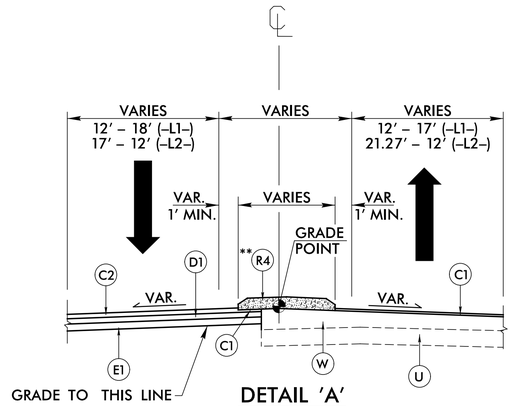
SECTION A–A

TO BE USED IN CONJUNCTION WITH T.S. NO. 4
–Y1– STA. 12+78.53 TO STA. 13+40.25 LT



SECTION B–B

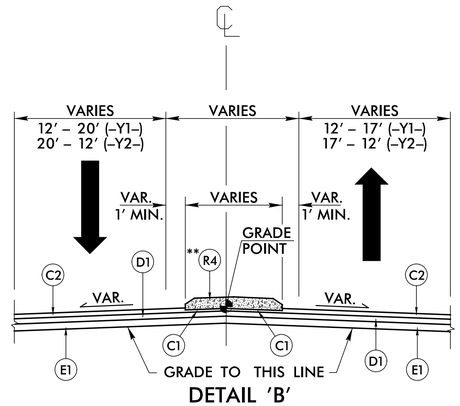
TO BE USED IN CONJUNCTION WITH T.S. NO. 2
–L2– STA. 10+25.30 TO STA. 11+77.06 LT



DETAIL 'A'

TO BE USED IN CONJUNCTION WITH T.S. NO. 2

** LIMITS OF CONCRETE ISLAND
–L1– STA. 13+93.75 TO STA. 14+68.54
–L2– STA. 10+20.87 TO STA. 10+89.12



DETAIL 'B'

TO BE USED IN CONJUNCTION WITH T.S. NO. 4

** LIMITS OF CONCRETE ISLAND
–Y1– STA. 12+71.68 TO STA. 13+39.32
–Y2– STA. 10+22.31 TO STA. 10+91.20

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	2A-2

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 014493 ENGINEER Jimmy Goodnight

Document not considered final for approval or bid
Jimmy Goodnight 5/3/2019

PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

Document not considered final for approval or bid
Greg S. Davis 5/8/2019

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared by
vhb
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

PAVEMENT SCHEDULE

C1	1½″ TYPE S9.5B
C2	3″ TYPE S9.5B
D1	4″ TYPE I19.0C
E1	4″ TYPE B25.0C
J	8″ ABC
R2	2′-6″ C&G
R4	5″ CONCRETE ISLAND (KEYED IN)
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING

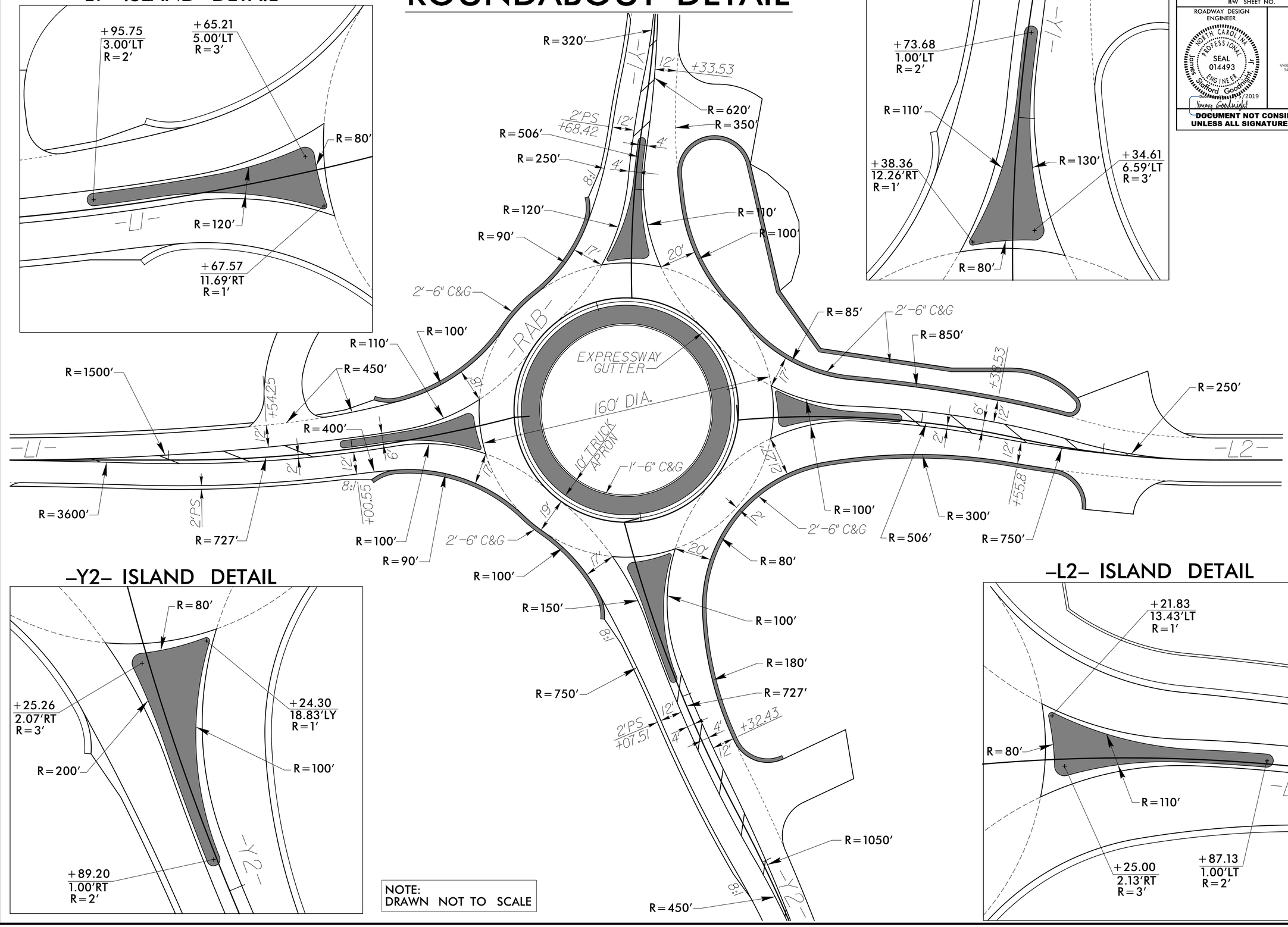
5/2/2018
R:\5708A-dy_typ.dgn
jgoodnight

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ROUNDABOUT DETAIL

–L1– ISLAND DETAIL

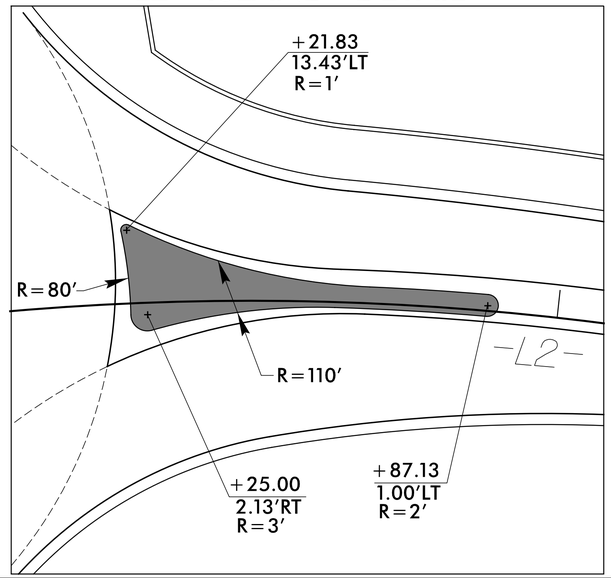
–Y1– ISLAND DETAIL



–Y2– ISLAND DETAIL

NOTE:
DRAWN NOT TO SCALE

–L2– ISLAND DETAIL



PROJECT REFERENCE NO.	SHEET NO.
W-5708A	2B-1
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 014493 ENGINEER Jimmy Stafford Goodnight

DocuSigned by: Jimmy Goodnight 5/5/2019

Prepared by

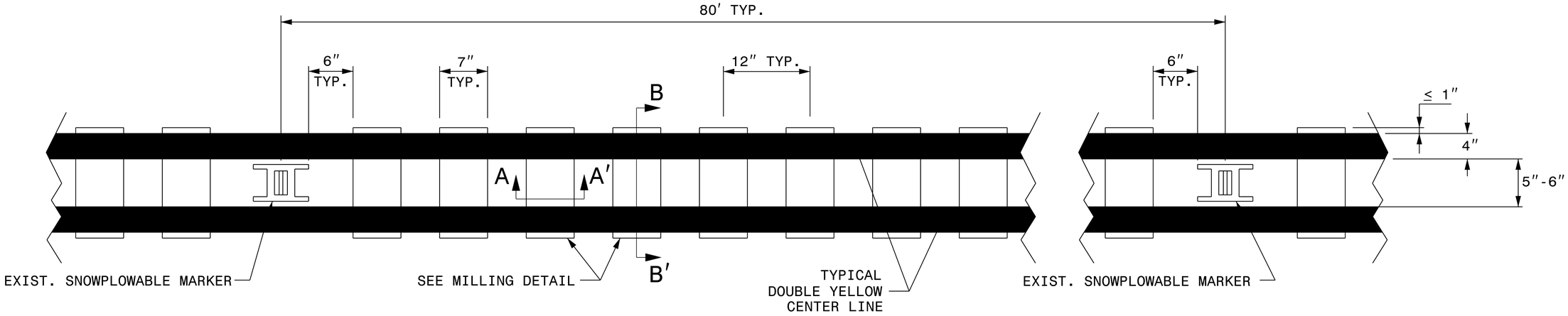
vhb
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS 8/17/99

5/2/2018
W5708A_rdy_typ_sht2b.dgn
kmcallister

PROJ. REFERENCE NO.	SHEET NO.
2018CPT.08.11.10471 2018CPT.08.11.10631	2C-1



CENTERLINE

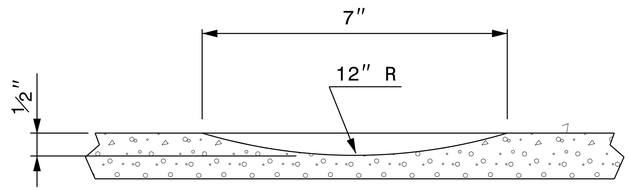
NOTES:

1) THERE WILL BE NO CENTERLINE RUMBLE STRIPS OR RUMBLE STRIPES ON 3-LANE SECTIONS.

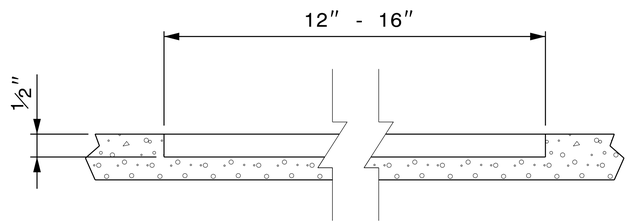
2) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.

3) NEW SNOWPLOWABLE MARKERS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

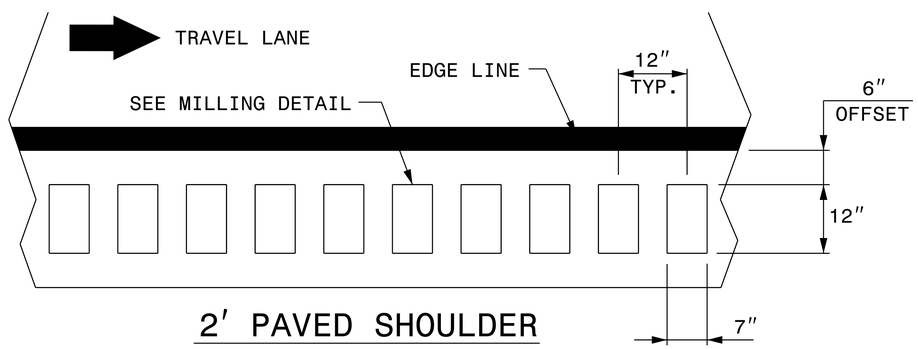
MILLING DETAIL



SECTION A-A′



SECTION B-B′



2′ PAVED SHOULDER

MILLED RUMBLE STRIPS

SCALE:	NONE
DATE:	04-09
DWG. BY:	DDC
DESIGN BY:	DDC
REVIEWED BY:	GSD

DIVISION OF ROADWAY AND TRAFFIC MANAGEMENT — DEPARTMENT OF TRANSPORTATION — TRAFFIC CONTROL

REVISIONS	
CADD FILE	

23-OCT-2018 09:14
Z:\rdy\hoke\us15-501@sr_1225ashemont_rdy\002\Plans\RumbleStripDetail.dgn
gsdavis AT DW8-3267IL

PROJECT REFERENCE NO.	SHEET
W-5708A	2H-1

GEOENVIRONMENTAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 31499 ENGINEER CYRUS F. PARKER

DocuSigned by: Cyrus Parker 9/19/2017
C96492AF5E824DF...

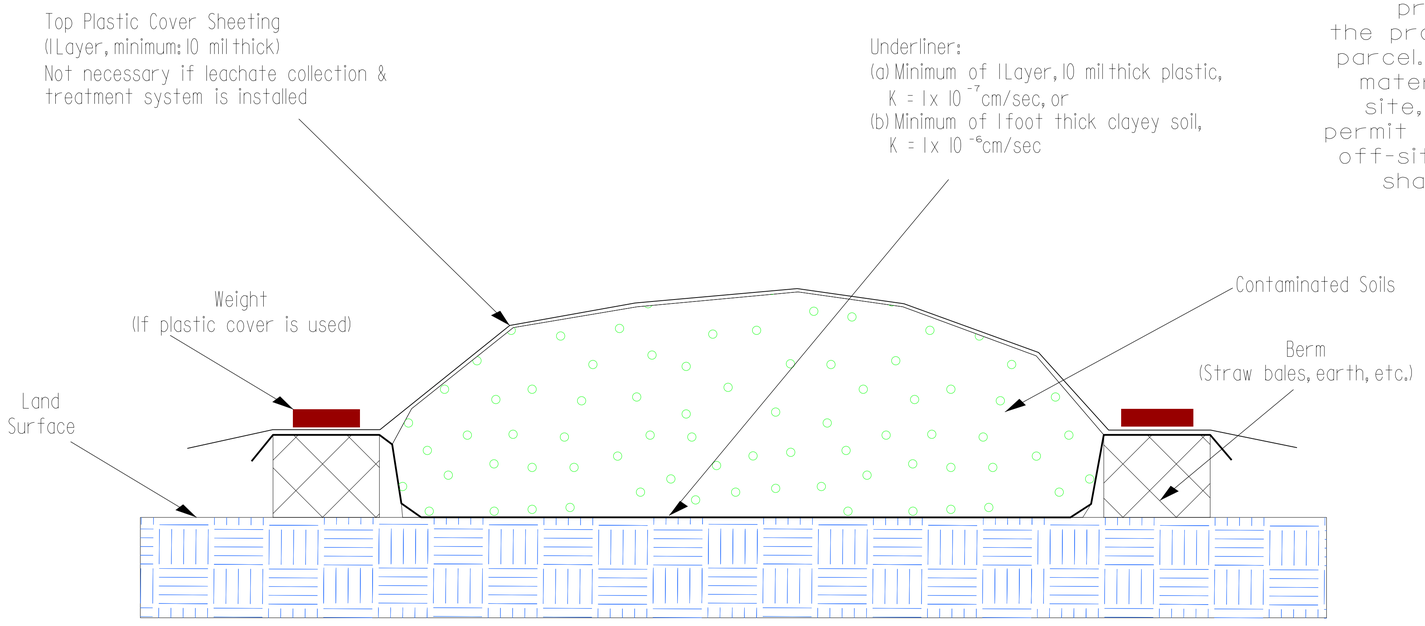
SIGNATURE DATE

ENGINEER

SIGNATURE DATE

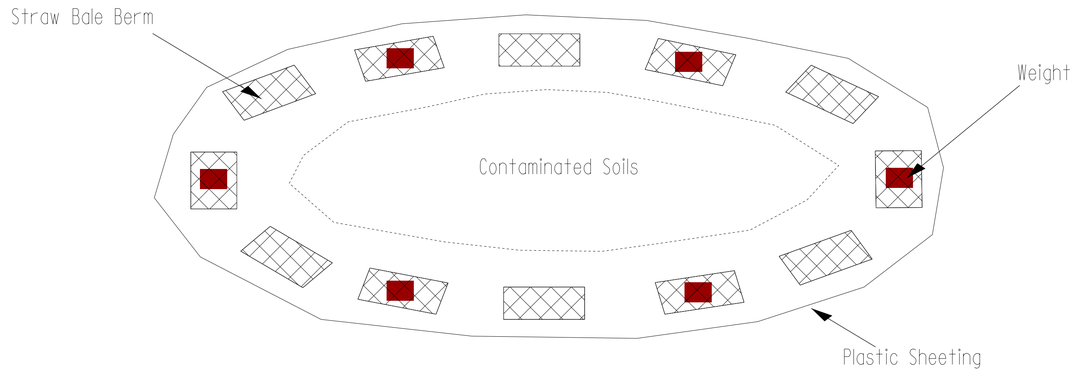
Detail for Temporary Containment of Contaminated Soil

Cross-Section View



NOTE:
The Contractor shall stockpile all contaminated soil excavated from a property in a location within the property boundaries of the source parcel. If the volume of contaminated material exceeds available space on site, the Contractor shall obtain a permit from the NCDEQ UST Section for off-site temporary storage. Stockpile shall be removed within 45 days.

Map View



PREPARED BY: _	DATE: _
REVIEWED BY: _	DATE: _

GEOTECHNICAL ENGINEERING UNIT

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

- ☐ EASTERN REGIONAL OFFICE
- ☐ WESTERN REGIONAL OFFICE
- ☒ CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STOCKPILE CONTAINMENT DETAIL

REVISIONS

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

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.08.11.10471	**3A-1**	
2018CPT.08.11.10631		
44854.3.1 (W-5708A)		

SUMMARY OF QUANTITIES

										0000400000-N	0036000000-E	0043000000-N	0050000000-E	0113000000-E	0134000000-E	0195000000-E	0196000000-E	0255000000-E	0318000000-E	0320000000-E	0343000000-E	0448200000-E	0448300000-E	0448400000-E	0448500000-E	0995000000-E	1121000000-E	1220000000-E	1245000000-E	1260000000-E	1297000000-E	1330000000-E	1491000000-E	1503000000-E	1519000000-E	1575000000-E
PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**LENGTH**	**WIDTH**	**CONSTRUCTION SURVEYING**	**UNDERCUT EXCAVATION**	**GRADING**	**SUPPLEMENTARY CLEARING & GRUBBING**	**SELECT BORROW MATERIAL**	**DRAINAGE DITCH EXCAVATION**	**SELECT GRANULAR MATERIAL**	**GEOTEXTILE FOR SOIL STABILIZATION**	**GENERIC GRADING ITEM - HAULING AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL**	**FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES**	**FOUNDATION CONDITIONING GEOTEXTILE**	**15" SIDE DRAIN PIPE**	**15" RC PIPE CULVERT, CLASS IV**	**18" RC PIPE CULVERT, CLASS IV**	**24" RC PIPE CULVERTS, CLASS IV**	**30" RC PIPE CULVERTS, CLASS IV**	**PIPE REMOVAL**	**AGGREGATE BASE COURSE**	**INCIDENTAL STONE BASE**	**SHOULDER RECONSTRUCTION**	**AGGREGATE SHOULDER BORROW**	**1.5" MILLING**	**INCIDENTAL MILLING**	**BASE COURSE, B25.0C**	**INTERMEDIATE COURSE, I19.0C**	**SURFACE COURSE, S9.5B**	**ASPHALT BINDER FOR PLANT MIX**
								MI	**FT**	**LS**	**CY**	**LS**	**ACR**	**CY**	**CY**	**CY**	**SY**	**TON**	**TON**	**SY**	**LF**	**LF**	**LF**	**LF**	**LF**	**TONS**	**TONS**	**SMI**	**TON**	**SY**	**SY**	**TONS**	**TONS**	**TONS**	**TONS**
2018CPT.08.11.10471	Hoke	1	US 15-501	FROM MOORE CO LINE TO SCOTLAND CO. LINE (EXCLUDE LIMITS OF W-5708A)	Sheet 8	2	2WU	3.475	28.5																				6.95	965	55,707	500			5,665	380
TOTAL FOR MAP NO. 1								**3.475**																					**6.95**	**965**	**55,707**	**500**			**5,665**	**380**
TOTAL FOR PROJ NO. 2018CPT.08.11.10471								**3.475**																					**6.95**	**965**	**55,707**	**500**			**5,665**	**380**
2018CPT.08.11.10631	Moore	2	US 15-501	FROM C.J. S. OF NC HWY 211 TO HOKE CO.	Sheet 8	2	2WU	3.476	29																				5.62	780	61,800	1,170			5,610	376
TOTAL FOR MAP NO. 2								**3.476**																					**5.62**	**780**	**61,800**	**1,170**			**5,610**	**376**
TOTAL FOR PROJ NO. 2018CPT.08.11.10631								**3.476**																					**5.62**	**780**	**61,800**	**1,170**			**5,610**	**376**
44854.3.1 (W-5708A)	Hoke	3	US 15-501	CONSTRUCT ROUNDABOUT AT THE INTERSECTION WITH SR 1225 (ASHEMONT RD)	1-5	2	2WU	0.154	28	1	300	1	1	370	60	300	1,000	415	140	420	68	276	404	440	104	205	410	170				710	2,170	1,250	1,420	253
TOTAL FOR MAP NO. 3								**0.154**		**1**	**300**	**1**	**1**	**370**	**60**	**300**	**1,000**	**415**	**140**	**420**	**68**	**276**	**404**	**440**	**104**	**205**	**410**	**170**				**710**	**2,170**	**1,250**	**1,420**	**253**
TOTAL FOR PROJ NO. 44854.3.1 (W-5708A)								**0.154**		**1**	**300**	**1**	**1**	**370**	**60**	**300**	**1,000**	**415**	**140**	**420**	**68**	**276**	**404**	**440**	**104**	**205**	**410**	**170**				**710**	**2,170**	**1,250**	**1,420**	**253**
GRAND TOTAL								**7.105**		**1**	**300**	**1.000**	**1**	**370**	**60**	**300**	**1,000**	**415**	**140**	**420**	**68**	**276**	**404**	**440**	**104**	**205**	**410**	**170**	**12.57**	**1,745**	**117,507**	**2,380**	**2,170**	**1,250**	**12,695**	**1,009**

										1693000000-E	1704000000-E	1840000000-E	2000000000-N	2253000000-E	2286000000-N	2308000000-E	2364000000-N	2367000000-N	2374000000-N			2396000000-N	2451000000-N	2542000000-E	2549000000-E	2577000000-E	2627000000-E	2655000000-E	2738000000-E		3649000000-E	3656000000-E	5325600000-E	5325800000-E	5329000000-E	5540000000-E	5546000000-E
PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**LENGTH**	**WIDTH**	**AC PLANT MIX (REPAIR)**	**PATCHING EXISTING PAVEMENT**	**MILLED RUMBLE STRIPS**	**RIGHT-OF-WAY MARKERS**	**PIPE COLLAR**	**MASONRY DRAINAGE STRUCTURE**	**MASONRY DRAINAGE STRUCTURE (LF)**	**FRAME WITH TWO GRATES, STD 840.16**	**FRAME WITH TWO GRATES, STD 840.29**	**FRAME WITH GRATE & HOOD, STD 840.03, TYPE E**	**FRAME WITH GRATE & HOOD, STD 840.03, TYPE F**	**FRAME WITH GRATE & HOOD, STD 840.03, TYPE G**	**FRAME WITH COVER, STD 840.54**	**CONCRETE TRANSITIONAL SECTION FOR DROP INLET**	**1'-6" CURB & GUTTER**	**2'-6" CURB & GUTTER**	**CONCRETE EXPRESSWAY GUTTER**	**4" CONCRETE ISLAND COVERS**	**5" MONOLITHIC CONCRETE ISLANDS(KEYED-IN)**	**GENERIC PAVING ITEM - 7" CONCRETE TRUCK APRON**	**GENERIC PAVING ITEM - ARTIFICIAL TURF**	**RIP RAP, CLASS B**	**GEOTEXTILE FOR DRAINAGE**	**6" WATER LINE**	**8" WATER LINE**	**DUCTILE IRON WATER PIPE FITTINGS**	**6" VALVE**	**8" VALVE**
								MI	**FT**	**TONS**	**TONS**	**LF**	**EA**	**CY**	**EA**	**LF**	**EA**	**EA**	**EA**	**EA**	**EA**	**EA**	**EA**	**EA**	**LF**	**LF**	**LF**	**SY**	**SY**	**SY**	**SY**	**TON**	**SY**	**LF**	**LF**	**LB**	**EA**	**EA**
2018CPT.08.11.10471	Hoke	1	US 15-501	FROM MOORE CO LINE TO SCOTLAND CO. LINE (EXCLUDE LIMITS OF W-5708A)	Sheet 8	2	2WU	3.475	28.5		195	50,077																										
TOTAL FOR MAP NO. 1								**3.475**			**195**	**50,077**																										
TOTAL FOR PROJ NO. 2018CPT.08.11.10471								**3.475**			**195**	**50,077**																										
2018CPT.08.11.10631	Moore	2	US 15-501	FROM C.J. S. OF NC HWY 211 TO HOKE CO.	Sheet 8	2	2WU	3.476	29		207	39,722																										
TOTAL FOR MAP NO. 2								**3.476**			**207**	**39,722**																										
TOTAL FOR PROJ NO. 2018CPT.08.11.10631								**3.476**			**207**	**39,722**																										
44854.3.1 (W-5708A)	Hoke	3	US 15-501	CONSTRUCT ROUNDABOUT AT THE INTERSECTION WITH SR 1225 (ASHEMONT RD)	1-5	2	2WU	0.154	28	50			18	0.60	18	5.00	2	3	3	4	5	1	2	300	1,320	375.00	730	340	370	730	13	263	567	580	1,940	2	3
TOTAL FOR MAP NO. 3								**0.154**		**50**			**18**	**0.60**	**18**	**5.00**	**2**	**3**	**3**	**4**	**5**	**1**	**2**	**300**	**1,320**	**375.00**	**730**	**340**	**370**	**730**	**13**	**263**	**567**	**580**	**1,940**	**2**	**3**
TOTAL FOR PROJ NO. 44854.3.1 (W-5708A)								**0.154**		**50**			**18**	**0.60**	**18**	**5.00**	**2**	**3**	**3**	**4**	**5**	**1**	**2**	**300**	**1,320**	**375.00**	**730**	**340**	**370**	**730**	**13**	**263**	**567**	**580**	**1,940**	**2**	**3**
GRAND TOTAL								**7.105**		**50**	**402**	**89,799**	**18**	**0.60**	**18**	**5.00**	**2**	**3**	**3**	**4**	**5**	**1**	**2**	**300**	**1,320**	**375.00**	**730**	**340**	**370**	**730**	**13**	**263**	**567**	**580**	**1,940**	**2**	**3**

										5689000000-E	5800000000-E	5801000000-E	5835600000-E	5835700000-E	5872500000-E		6000000000-E	6006000000-E	6009000000-E	6012000000-E	6015000000-E	6018000000-E	6021000000-E	6024000000-E	6030000000-E	6036000000-E	6038000000-E	6042000000-E	6071010000-E	6071020000-E	6071030000-E	6084000000-E	6087000000-E	6090000000-E	6093000000-E	6096000000-E	6108000000-E	6114500000-N
PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**LENGTH**	**WIDTH**	**GENERIC UTILITY ITEM - RECONNECT WATER SERVICE**	**ABANDON 6" UTILITY PIPE**	**ABANDON 8" UTILITY PIPE**	**12" ENCASEMENT PIPE**	**16" ENCASEMENT PIPE**	**BORE AND JACK OF 8"**	**BORE AND JACK OF 16"**	**TEMPORARY SILT FENCE**	**EROSION CONTROL STONE, CLASS A**	**EROSION CONTROL STONE, CLASS B**	**SEDIMENT CONTROL STONE**	**TEMPORARY MULCHING**	**SEED FOR TEMPORARY SEEDING**	**FERTILIZER FOR TEMPORARY SEEDING**	**TEMPORARY SLOPE DRAINS**	**SILT EXCAVATION**	**MATTING (EROSION CONTROL)**	**PERMANENT SOIL REINFORCEMENT MAT**	**1/4" HARDWARE CLOTH**	**WATTLE**	**POLYACRYLAMIDE (PAM)**	**COIR FIBER BAFFLES**	**SEED & MULCHING**	**MOWING**	**SEED FOR REPAIR SEEDING**	**FERTILIZER FOR REPAIR SEEDING**	**SEED FOR SUPPLEMENTAL SEEDING**	**FERTILIZER TOPDRESSING**	**SPECIALIZED HAND MOWING**
								MI	**FT**	**EA**	**LF**	**LF**	**LF**	**LF**	**LF**	**LF**	**LF**	**TON**	**TON**	**TON**	**ACR**	**LB**	**TON**	**LF**	**CY**	**SY**	**SY**	**LF**	**LF**	**LB**	**LF**	**AC**	**ACR**	**LB**	**TON**	**LB**	**TON**	**MHR**
2018CPT.08.11.10471	Hoke	1	US 15-501	FROM MOORE CO LINE TO SCOTLAND CO. LINE (EXCLUDE LIMITS OF W-5708A)	Sheet 8	2	2WU	3.475	28.5																												
TOTAL FOR MAP NO. 1								**3.475**																														
TOTAL FOR PROJ NO. 2018CPT.08.11.10471								**3.475**																														
2018CPT.08.11.10631	Moore	2	US 15-501	FROM C.J. S. OF NC HWY 211 TO HOKE CO.	Sheet 8	2	2WU	3.476	29																														
TOTAL FOR MAP NO. 2								**3.476**																														
TOTAL FOR PROJ NO. 2018CPT.08.11.10631								**3.476**																														
44854.3.1 (W-5708A)	Hoke	3	US 15-501	CONSTRUCT ROUNDABOUT AT THE INTERSECTION WITH SR 1225 (ASHEMONT RD)	1-5	2	2WU	0.154	28	2	462	708	82	52	64	52	3,220	105	400	285	4.00	300	1.50	200	190	8,640	305	790	410	205	45	6.00	3	50	0.25	100	2.75	10
TOTAL FOR MAP NO. 3								**0.154**		**2**	**462**	**708**	**82**	**52**	**64**	**52**	**3,220**	**105**	**400**	**285**	**4.00**	**300**	**1.50**	**200**	**190**	**8,640**	**305**	**790**	**410**	**205**	**45**	**6.00**	**3**	**50**	**0.25**	**100**	**2.75**	**10**
TOTAL FOR PROJ NO. 44854.3.1 (W-5708A)								**0.154**		**2**	**462**	**708**	**82**	**52**	**64**	**52**	**3,220**	**105**	**400**	**285**	**4.00**	**300**	**1.50**	**200**	**190**	**8,640**	**305**	**790**	**410**	**205**	**45**	**6.00**	**3**	**50**	**0.25**	**100**	**2.75**	**10**
GRAND TOTAL								**7.105**		**2**	**462**	**708**	**82**	**52**	**64**	**52**	**3,220**	**105**	**400**	**285**	**4.00**	**300**	**1.50**	**200**	**190**	**8,640**	**305**	**790**	**410**	**205**	**45**	**6.00**	**3**	**50**	**0.25**	**100**	**2.75**	**10**

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.08.11.10471	**3A-2**	
2018CPT.08.11.10631		
44854.3.1 (W-5708A)		

THERMOPLASTIC AND PAINT QUANTITIES

											4400000000-E	4405000000-E	4410000000-E	4413000000-E	4420000000-N	4430000000-N	4435000000-N	4445000000-E	4455000000-N	4516000000-N	4685000000-E		4686000000-E		4695000000-E		4697000000-E	4710000000-E	4721000000-E
PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**LENGTH**	**WIDTH**	**STATIONARY WORK ZONE SIGN**	**PORTABLE WORK ZONE SIGN**	**BARRICADE MOUNTED WORK ZONE SIGN**	**WORK ZONE ADVANCE/GENERAL WARNING SIGNING**	**PORTABLE CHANGEABLE MESSAGE SIGN**	**DRUMS**	**CONES**	**TYPE III BARRICADE**	**FLAGGER**	**SKINNY DRUM**	**4" X 90 M WHITE THERMO**	**4" X 90 M YELLOW THERMO**	**4" X 120 M YELLOW THERMO**	**4" X 120 M WHITE THERMO**	**8" X 90 M YELLOW THERMO**	**8" X 90 M WHITE THERMO**	**8" X 120 M WHITE THERMO**	**24" X 120 M WHITE THERMO**	**THERMO MSG SCHOOL 120 M**
								MI	**FT**	**SF**	**SF**	**SF**	**SF**	**EA**	**EA**	**EA**	**LF**	**DAY**	**EA**	**LF**	**LF**	**LF**	**LF**	**LF**	**LF**	**LF**	**LF**	**EA**
2018CPT.08.11.10471	Hoke	1	US 15-501	FROM MOORE CO LINE TO SCOTLAND CO. LINE (EXCLUDE LIMITS OF W-5708A)	Sheet 8	2	2WU	3.475	28.5	96	48		330			50		25		34,987		19,062						
TOTAL FOR MAP NO. 1								**3.475**		**96**	**48**		**330**			**50**		**25**		**34,987**		**19,062**						
TOTAL FOR PROJ NO. 2018CPT.08.11.10471								**3.475**		**96**	**48**		**330**			**50**		**25**		**34,987**		**19,062**						
																				34,987		**19,062**						
2018CPT.08.11.10631	Moore	2	US 15-501	FROM C.J. S. OF NC HWY 211 TO HOKE CO.	Sheet 8	2	2WU	3.476	29	96	48		949			50		25		36,612		15,460	1,480	330			144	12
TOTAL FOR MAP NO. 2								**3.476**		**96**	**48**		**949**			**50**		**25**		**36,612**		**15,460**	**1,480**	**330**			**144**	**12**
TOTAL FOR PROJ NO. 2018CPT.08.11.10631								**3.476**		**96**	**48**		**949**			**50**		**25**		**36,612**		**15,460**	**1,480**	**330**			**144**	**12**
																				36,612		**16,940**		**330**				
44854.3.1 (W-5708A)	Hoke	3	US 15-501	CONSTRUCT ROUNDABOUT AT THE INTERSECTION WITH SR 1225 (ASHEMONT RD)	1-5	2	2WU	0.154	28	484	176	186		4	80	60	136	70	50	2,252	550	3,586	45	178	182	80		
TOTAL FOR MAP NO. 3								**0.154**		**484**	**176**	**186**		**4**	**80**	**60**	**136**	**70**	**50**	**2,252**	**550**	**3,586**	**45**	**178**	**182**	**80**		
TOTAL FOR PROJ NO. 44854.3.1 (W-5708A)								**0.154**		**484**	**176**	**186**		**4**	**80**	**60**	**136**	**70**	**50**	**2,252**	**550**	**3,586**	**45**	**178**	**182**	**80**		
																				2,802		**3,631**		**360**				
GRAND TOTAL								**7.105**		**676**	**272**	**186**	**1,279**	**4**	**80**	**160**	**136**	**120**	**50**	**73,851**	**550**	**38,108**	**1,525**	**508**	**182**	**80**	**144**	**12**
																				74,401		**39,633**		**690**				

											4725000000-E					4810000000-E		4820000000-E		4835000000-E	4840000000-N	4845000000-N						4850000000-E	4875000000-N	4905000000-N	
PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**LENGTH**	**WIDTH**	**THERMO LT ARROW 90 M**	**THERMO RT ARROW 90 M**	**THERMO STR ARROW 90 M**	**THERMO LT & RT ARROW 90 M**	**THERMO 24" YIELD TRIANGLE**	**4" WHITE PAINT**	**4" YELLOW PAINT**	**8" YELLOW PAINT**	**8" WHITE PAINT**	**24" WHITE PAINT**	**PAINT MSG SCHOOL**	**PAINT LT ARROW**	**PAINT STR ARROW**	**PAINT LT & RT ARROW**	**PAINT RT ARROW**	**PAINT YIELD LINE TRIANGLE**	**4" LINE REMOVAL**	**REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS**	**SNOW PLOWABLE MARKERS Y & Y MARKERS**	**SNOW PLOWABLE MARKERS C & R MARKERS**
								MI	**FT**	**EA**	**EA**	**EA**	**EA**	**EA**	**LF**	**LF**	**LF**	**LF**	**LF**	**EA**	**EA**	**EA**	**EA**	**EA**	**EA**	**LF**	**EA**	**EA**	**EA**
2018CPT.08.11.10471	Hoke	1	US 15-501	FROM MOORE CO LINE TO SCOTLAND CO. LINE (EXCLUDE LIMITS OF W-5708A)	Sheet 8	2	2WU	3.475	28.5						35,000	19,100												8	218	
TOTAL FOR MAP NO. 1								**3.475**							**35,000**	**19,100**												**8**	**218**	
TOTAL FOR PROJ NO. 2018CPT.08.11.10471								**3.475**							**35,000**	**19,100**												**8**	**218**	
															54,100														**218**	
2018CPT.08.11.10631	Moore	2	US 15-501	FROM C.J. S. OF NC HWY 211 TO HOKE CO.	Sheet 8	2	2WU	3.476	29	12	3	24	1		38,100	15,490	330		244	12	12	24	1	3				180	45
TOTAL FOR MAP NO. 2								**3.476**		**12**	**3**	**24**	**1**		**38,100**	**15,490**	**330**		**244**	**12**	**12**	**24**	**1**	**3**				**180**	**45**
TOTAL FOR PROJ NO. 2018CPT.08.11.10631								**3.476**		**12**	**3**	**24**	**1**		**38,100**	**15,490**	**330**		**244**	**12**	**12**	**24**	**1**	**3**				**180**	**45**
												40			**53,590**		**330**						**40**						**225**	
44854.3.1 (W-5708A)	Hoke	3	US 15-501	CONSTRUCT ROUNDABOUT AT THE INTERSECTION WITH SR 1225 (ASHEMONT RD)	1-5	2	2WU	0.154	28					25	3,811	4,935	145	212							12	1,200		59	
TOTAL FOR MAP NO. 3								**0.154**						**25**	**3,811**	**4,935**	**145**	**212**							**12**	**1,200**		**59**	
TOTAL FOR PROJ NO. 44854.3.1 (W-5708A)								**0.154**						**25**	**3,811**	**4,935**	**145**	**212**							**12**	**1,200**		**59**	
												25			**8,746**		**357**						**12**						**59**	
GRAND TOTAL								**7.105**		**12**	**3**	**24**	**1**	**25**	**76,911**	**39,525**	**475**	**212**	**244**	**12**	**12**	**24**	**1**	**3**	**12**	**1,200**	**8**	**457**	**45**
												65			**116,436**		**687**						**52**						**502**	

5/9/06

COMPUTED BY: JBJ DATE: 01-16-2018
CHECKED BY: JSG DATE: 01-16-2018

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	3B-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK
IN CUBIC YARDS

STATION	STATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT +%	BORROW	WASTE
-L1- 11+50.00	14+70.57	180		440	260	
-L2- 10+19.18	13+50.00	181		276	95	
	SUBTOTAL	**361**		**716**	**355**	
-Y1- 10+50.00	13+40.25	234		263	29	
-Y2- 10+19.60	14+65.00	579		1,846	1,267	
	SUBTOTAL	**813**		**2,109**	**1,296**	**0**
-RAB- 10+00.00	13+83.27	24		3,875	3,851	
	SUBTOTAL	**24**		**3,875**	**3,851**	**0**
-L_TMP3- 10+00.00	15+65.85	250		64		186
-DET1- 10+00.00	13+40.42	139		19		120
	SUBTOTAL	**389**		**83**		**306**
TOTAL		**1,587**		**6,783**	**5,502**	**306**
MATERIAL FOR SHOULDER CONSTRUCTION				372	372	
LOSS DUE TO CLEARING & GRUBBING						
WASTE IN LIEU OF BORROW					-306	-306
PROJECT TOTAL		**1,587**		**7,155**	**5,568**	**0**
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					278	
GRAND TOTAL		**1,587**			**5,846**	
SAY		**1,600**			**5,860**	
EST. DDE = 60 CY						
SELECT BORROW MATERIAL = 370 CY						

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

REMOVAL OF EXISTING ASPHALT PAVEMENT

LINE	STATION FROM	STATION TO	LOCATION	AREA (SQ. FT.)	AREA (SQ. YDS.)
–L1–	11+50	12+86	RT	194.68	21.63
–L1–	11+50	12+89	LT	217.21	24.13
–L2–	12+44	13+50	LT	190.38	21.15
–L2–	11+75	13+50	RT	433.16	48.13
–Y1–	11+65	12+61	LT	366.25	40.69
–RAB–	CENTER ISLAND		LT	2,576.83	286.31
–L_TMP3–	10+00	13+15	LT/RT	7,786.54	865.17
–L_TMP3–	13+44	15+65	LT/RT	3,620.13	402.24
–DET1–	10+33	12+51	LT/RT	4,367.38	485.26
				TOTAL	2,194.73
				SAY	2,200

BREAKING OF EXISTING ASPHALT PAVEMENT

LINE	STATION FROM	STATION TO	LOCATION	AREA (SQ. FT.)	AREA (SQ. YDS.)
–Y2–	11+55	11+83	LT	595.51	66.17
–Y2–	12+26	12+90	LT	427.79	47.53
–RAB–	11+22	12+50	LT/RT	3,411.13	379.01
				TOTAL	492.71
				SAY	500

1/9/2018
W-5708A_rdy_sum.dgn
jbaliser

Z7644

COMPUTED BY: GC, MI ENGINEERING DATE: 1/19/2018

CHECKED BY: DATE:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5708A	3D-1

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

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

| LINE & STATION | OFFSET | | STRUCTURE NUMBER FROM | STRUCTURE NUMBER TO | TOP ELEVATION FT. | INVERT ELEVATION FT. | INVERT ELEVATION FT. | MINIMUM REQUIRED SLOPE % | Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | R. C. PIPE CLASS IV SIZE 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | STRUCTURAL PLATE PIPE THICKNESS OR GAUGE 60 | 66 | 72 | ##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | ##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | ##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | ##" x ##" C.S. PIPE ARCH CULVERTS, ##" THICK | ##" x ##" C.S. STRUCTURAL PLATE PIPE ARCH, ## GAUGE | ##" WELDED STEEL PIPE ##" THICK, GRADE ## IN SOIL | ##" WELDED STEEL PIPE ##" THICK, GRADE ## NOT IN SOIL | ##" WELDED STEEL PIPE ##" THICK, GRADE B (UNDER RR) | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY | REINFORCED ENDWALLS CY | DRAINAGE STRUCTURE MASONRY CY | QUANTITIES FOR DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B) A: 0' THRU 5' EACH | A: 5' THRU 10' LIN. FT. | A: 10' AND ABOVE LIN. FT. | B | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E | F | G | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATES STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26 | G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27 | G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28 | G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20 | G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20 | G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | DRIVEWAY D.I. STD. 840.30 | FRAME W/ GRATE FOR DRIVEWAY STD. 840.30 | J.B. STD. 840.31 OR STD. 840.32 | M.H. FRAME AND COVER STD. 840.54 | CONCRETE COLLARS CL. "B" STD. 840.72 CY | CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---

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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 014493 ENGINEER Stafford Goodnight

DocuSigned by: Jimmy Goodnight 2/5/2019

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 18533 ENGINEER A.T. NOTTINGHAM

DocuSigned by: Andrew T. Nottingham 2/5/2019

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

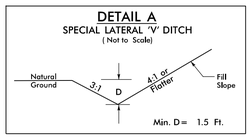
Prepared by

VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606

MI ENGINEERING 1011 SCHAUB DRIVE, SUITE 100 RALEIGH, NC 27606 (919) 851-6006 FIRM PE NUMBER: P0671

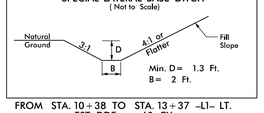
NAD 83/NA 2011

DETAIL A
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 10+50 TO 14+31 –Y2– RT. (MIRRORED)
FROM STA. 10+50 TO 11+89 –L2– RT. (MIRRORED)
FROM STA. 10+42 TO 11+36 –Y2– LT.
FROM STA. 11+00 TO 13+00 –Y1– RT. (MIRRORED)

DETAIL C
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 10+38 TO STA. 13+37 –L1– LT.
EST. DDE = 60 CY

BEGIN TIP PROJECT W-5708A
–L1– POT STA. 10+38.00
BEGIN DITCH CONSTRUCTION, LT

–Y1– POT Sta. 10+00.00

BRITTANIE COLBORN
DB 1029 PG 758
PC 4 SLIDE 4-48 MAP 004

BEGIN CONSTRUCTION
–Y1– POT Sta. 10+50.00

ARTHUR COLBORN
DB 244 PG 5
PC 4 SLIDE 4-48 MAP 004

–Y1– PC Sta. 10+92.69

ANNIE MCMILLIAN
DB 379 PG 117
PB 273 PG 4

PROP. PAVED DRIVEWAY WEDGE OVER TEMP. PAVEMENT TO MATCH PROP. ROAD EOP

SPEC. LAT. V DITCH SEE DETAIL 'A'

–Y1– PRC Sta. 12+59.47

TEMP. PAVEMENT REMOVAL

–Y1– PT Sta. 13+59.28=
–RAB– PCC Sta. 12+80.47

–L1– PT Sta. 14+89.80=
–RAB– PC Sta. 10+00.00=
–RAB– PT Sta. 13+83.27

STEPHEN MATTHEWS
DB 262 PG 568
DB 262 PG 571
DB 385 PG 321

PROPANE TANKS IN THIS AREA

GRADE TO DRAIN

–L2– PC Sta. 10+00.00=
–RAB– PCC Sta. 11+82.26

RAEFORD OIL COMPANY, INC.
DB 103 PG 448
DB 103 PG 449
DB 308 PG 837

–L1– POT Sta. 10+00.00

PROP. PAVED DRIVEWAY WEDGE OVER TEMP. PAVEMENT TO MATCH PROP. ROAD EOP

3 TONS CL B RIP RAP 10 SY GEOTEXTILE

SPEC. LAT. BASE DITCH SEE DETAIL 'C'

RETAIN

REMOVE

WILMA ALSUP
DB 318 PG 37

–L2– PRC Sta. 11+53.21

I.S. F BUS

A/G TANKS

MTL. CANOPY

PAVED PARKING 50'ft

PROPANE TANKS

SOIL & GRAVEL DRIVE

BILLBOARD

WOODS

15400

TO LAURINGBURG US 15-501 28' PAVED RDWY

TO ABERDEEN US 15-501 28' PAVED RDWY

BL-101

N 8° 26' 24.6" E

–L1– PC Sta. 13+05.47

BEGIN PAVING
–L1– POT Sta. 11+50.00

–Y2– PC Sta. 10+00.00=
–RAB– PCC Sta. 10+90.85

–L2– PT Sta. 12+62.81

–L2– POT Sta. 15+46.57

BILLY WATKINS
DB 631PG 299

IS MASONRY CHURCH

CHRIST'S WAY COMMUNITY CHURCH, INC.
DB 1167 PG 434

THOMAS SPARKS
DB 781PG 690

HAY FIELD

–Y2– PRC Sta. 11+71.61

GOSPEL LIGHTHOUSE MISSION BAPTIST CHURCH
DB 675 PG 545

GOSPEL LIGHTHOUSE BAPTIST CHURCH
DB 375 PG 456

–Y2– PT Sta. 14+12.06

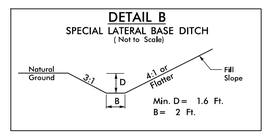
END CONSTRUCTION
–Y2– POT Sta. 14+65.00

N 89° 20' 20.6" E

–Y2– POT Sta. 15+30.29

END TIP PROJECT W-5708A
–L2– POT STA. 13+50.00

DETAIL B
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 11+89 TO STA. 14+65 –Y2– LT. (MIRRORED)

PROPOSED ARTIFICIAL TURF OVER CONCRETE ISLAND COVER (SEE SPECIAL PROVISION)

NOTE:
ALL RADII ON DRIVEWAYS ARE 10' UNLESS OTHERWISE LABELED.

–L1– CURVE DATA

PI Sta 13+98.13	PI Sta 12+08.23
Δ = 14° 31' 38.9" (LT)	Δ = 12° 24' 37.4" (LT)
D = 7° 52' 52.1"	D = 11° 19' 23.8"
L = 184.33'	L = 109.60'
T = 92.66'	T = 55.02'
R = 727.00'	R = 506.00'

–L2– CURVE DATA

PI Sta 10+77.20	PI Sta 13+09.54
Δ = 17° 20' 54.5" (RT)	Δ = 11° 18' 10.1" (LT)
D = 11° 19' 23.8"	D = 11° 19' 23.8"
L = 153.21'	L = 99.82'
T = 77.20'	T = 50.07'
R = 506.00'	R = 506.00'

–Y1– CURVE DATA

PI Sta 11+76.84	PI Sta 12+45.70
Δ = 18° 53' 02.6" (RT)	Δ = 92° 14' 44.0" (RT)
D = 11° 19' 23.8"	D = 93° 55' 39.0"
L = 166.77'	L = 98.21'
T = 84.15'	T = 63.44'
R = 506.00'	R = 61.00'

–Y2– CURVE DATA

PI Sta 10+86.21	PI Sta 12+92.94
Δ = 13° 31' 29.1" (LT)	Δ = 18° 57' 01.5" (RT)
D = 7° 52' 52.1"	D = 7° 52' 52.1"
L = 171.61'	L = 240.45'
T = 86.21'	T = 121.33'
R = 727.00'	R = 727.00'

–RAB– CURVE DATA

PI Sta 10+56.22	PI Sta 11+47.60	PI Sta 12+45.70	PI Sta 13+48.89
Δ = 85° 19' 48.9" (LT)	Δ = 85° 51' 59.0" (LT)	Δ = 92° 14' 44.0" (RT)	Δ = 96° 33' 28.0" (LT)
D = 93° 55' 39.0"	D = 93° 55' 39.0"	D = 93° 55' 39.0"	D = 93° 55' 39.0"
L = 90.85'	L = 91.42'	L = 98.21'	L = 102.80'
T = 56.22'	T = 56.75'	T = 63.44'	T = 68.41'
R = 61.00'	R = 61.00'	R = 61.00'	R = 61.00'

FOR –L1–, –L2–, –Y1– & –Y2– PROFILES SEE SHEET 5

FOR –RAB– PROFILE SEE SHEET 6

2/5/2019
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tgoodnight

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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	4A
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 014493 ENGINEER Stafford Goodnight

DocuSigned by: Jimmy Goodnight
2/5/2019

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 18533 ENGINEER A.T. NOTTINGHAM

DocuSigned by: Andrew T. Nottingham
2/5/2019

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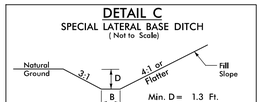
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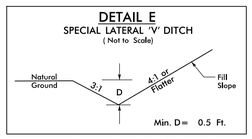
NAD 83/NA 2011

DETAIL C
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 10+38 TO STA. 13+37 –L1– LT.
EST. DDE = 60 CY

DETAIL E
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 10+50 TO STA. 13+00 –DET1– LT/RT

BEGIN TEMPORARY PAVEMENT
–L_TEMP3– STA. 10+00.00

END TEMPORARY PAVEMENT
–DET1– STA. 13+40.42

BEGIN TEMPORARY PAVEMENT
–DET1– STA. 10+00.00

END TEMPORARY PAVEMENT
–L_TEMP3– STA. 15+65.85

–DET1– PT Sta. 11+14.18
–DET1– PC Sta. 12+73.89
PC Sta. 11+85.27
PT Sta. 13+61.49
PT Sta. 10+92.46
PC Sta. 14+82.10

BYI-102 BYI-103 BL-101

BRITTANIE COLBORN
DB 1029 PG 758
PC 4 SLIDE 4-48 MAP 004

ARTHUR COLBORN
DB 244 PG 5
PC 4 SLIDE 4-48 MAP 004

2 ANNIE MCMILLIAN
DB 379 PG 117
PB 273 PG 4

1 STEPHEN MATTHEWS
DB 262 PG 568
DB 262 PG 571
DB 385 PG 321

7 RAEFORD OIL COMPANY, INC.
DB 103 PG 448
DB 103 PG 449
DB 308 PG 837

WILMA ALSUP
DB 318 PG 37

3 CHRIST'S WAY COMMUNITY CHURCH, INC.
DB 1167 PG 434

BILLY WATKINS
DB 631 PG 299

4 GOSPEL LIGHTHOUSE MISSION BAPTIST CHURCH
DB 675 PG 545

5 GOSPEL LIGHTHOUSE BAPTIST CHURCH
DB 375 PG 456

6 THOMAS SPARKS
DB 781 PG 690

ASHEMONT RD SR 1225 2LT PAVED RDWY
US 15-501 2LT PAVED RDWY
TO LAURINGBURG
TO ABERDEEN
–EL–
–L_TMP3–
N 8°-26'-24.7" E
N 21°-41'-05.0" E
N 03°-33'-22.9" W

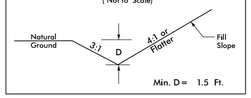
–L_TMP3– CURVE DATA

PI Sta 10+46.44	PI Sta 12+74.83	PI Sta 15+24.13
Δ = 13°14'40.32" (RT)	Δ = 25°14'27.89" (LT)	Δ = 11°59'47.57" (RT)
D = 14°19'26.2"	D = 14°19'26.2"	D = 14°19'26.2"
L = 92.46'	L = 176.22'	L = 83.75'
T = 46.44'	T = 89.56'	T = 42.03'
R = 400.00'	R = 400.00'	R = 400.00'

–DET1– CURVE DATA

PI Sta 10+61.83	PI Sta 13+09.52
Δ = 54°31'07.1" (LT)	Δ = 50°49'39.3" (LT)
D = 47°44'47.3"	D = 76°23'39.7"
L = 114.18'	L = 66.53'
T = 61.83'	T = 35.63'
R = 120.00'	R = 75.00'

DETAIL D
SPECIAL TEMPROARY LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 13+50 TO STA. 14+96 –L_TMP3–

TEMPORARY PAVEMENT

SEE SHEETS TMP-1 THRU TMP-8 FOR TRAFFIC MANAGEMENT PLANS

SEE SHEET 6 FOR –L_TMP3– & –DET1– PROFILES

2/4/2019
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locallusar

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5/28/99

-L1-

BEGIN GRADE
-L1- STA.11+50.00
EL.=347.12'

PI = 12+65.00
EL = 348.61'
VC = 100'
K = 162

END GRADE
-L1- STA.14+70.57 =
-RAB- STA.10+02.56, 19.00' RT
EL=352.53'

(+)1.2918%
(+)1.9097%
(+)1.9097%
(+)1.9097%
(+) 0.5719%

BEGIN SPECIAL LATERAL BASE DITCH -L1- STA.10+38 LT EL=343.16'

END SPECIAL LATERAL BASE DITCH -L1- STA.13+37 LT EL=344.83'

FOR -L1- PLAN SEE SHEET 4

-L2-

BEGIN GRADE
-L2- STA.10+19.18=
-RAB- STA.11+84.54, 19.00' RT
EL.=352.55'

PI = 10+75.00
EL = 351.60'
VC = 100'
K = 40

PI = 12+40.00
EL = 352.91'
VC = 100'
K = 180

END GRADE
-L2- STA.13+50.00
EL.=354.40'

(-)2.0365%
(-)1.7000%
(+)0.7931%
(+)0.7931%
(+)1.3498%
(+) 1.0000%

BEGIN SPECIAL LATERAL V DITCH -L2- STA.10+50 RT EL=347.78'

END SPECIAL LATERAL V DITCH -L2- STA.11+89 RT EL=349.17'

FOR -L2- PLAN SEE SHEET 4

RIGHT DITCH
LEFT DITCH

-Y1-

BEGIN GRADE
-Y1- STA.10+50.00
EL.=352.75'

END GRADE
-Y1- STA.13+40.25=
-RAB- STA.12+81.39, 19.00' RT
EL.=352.18'

PI = 12+85.00
EL = 351.35'
VC = 100'
K = 48

(-)0.7013%
(-)0.5965%
(+)1.5000%
(+)2.0005%
(-)1.0705%

BEGIN SPECIAL LATERAL V DITCH -Y1- STA.11+00 RT EL=349.29'

END SPECIAL LATERAL V DITCH -Y1- STA.11+77 RT EL=348.75'

BEGIN SPECIAL LATERAL V DITCH -Y1- STA.12+05 RT EL=348.56'

END SPECIAL LATERAL V DITCH -Y1- STA.13+00 RT EL=347.89'

FOR -Y1- PLAN SEE SHEET 4

RIGHT DITCH
LEFT DITCH

-Y2-

BEGIN GRADE
-Y2- STA.10+19.60=
-RAB- STA.10+95.03, 19.00' RT
EL.=352.86'

PI = 11+70.00
EL = 349.95'
VC = 100'
K = 54

PI = 13+86.00
EL = 341.77'
VC = 100'
K = 101

END GRADE
-Y2- STA.14+65.00
EL.=339.56'

(-)1.9367%
(-)1.9367%
(-)3.7862%
(-)1.4894%
(-) 2.0000%
(-)3.7862%
(-)2.2862%
(-)2.8674%
(-)2.7924%

BEGIN SPECIAL LATERAL V DITCH -Y2- STA.10+50 RT EL=346.90'

BEGIN SPECIAL LATERAL V DITCH -Y2- STA.10+42 LT EL=347.40'

END SPECIAL LATERAL V DITCH -Y2- STA.11+36 LT EL=346.01'

BEGIN SPECIAL LATERAL BASE DITCH -Y2- STA 11+89 LT EL=344.00'

PI SPECIAL LATERAL V DITCH -Y2- STA.12+50 RT EL=342.90'

END SPECIAL LATERAL V DITCH -Y2- STA.14+31 RT EL=337.71'

END SPECIAL LATERAL BASE DITCH -Y2- STA.14+65 LT, EL=337.69

FOR -Y2- PLAN SEE SHEET 4

RIGHT DITCH
LEFT DITCH

370 / 360 / 350 / 340 / 330 / 320

10+00 / 11+00 / 12+00 / 13+00 / 14+00 / 15+00

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PROJECT REFERENCE NO.	SHEET NO.
W-5708A	5

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 014493 ENGINEER Stafford Goodnight

2/5/2019
DocuSigned by: Jimmy Goodnight

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 18533 ENGINEER A. T. NOTTINGHAM

2/5/2019
DocuSigned by: Andrew T. Nottingham

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-RAB-

BEGIN GRADE
-RAB- STA.10+00.00
EL.=352.90'

PI = 10+92.00
EL = 353.36'
VC = 100'
K = 104

END GRADE
-RAB- STA.13+83.27
EL.=352.90'

PI = 12+91.00
EL = 352.44'
VC = 100'
K = 104

(+)0.5000% (+)0.5000% (−)0.4630% (−)0.4630% (+)0.5000% (+)0.5000%

370 360 350 340 330 320

FOR -RAB- PLAN SEE SHEET 4

10+00 11+00 12+00 13+00 14+00 15+00

-L_TMP3-

BEGIN GRADE
-L_TMP3- STA.11+06.53
EL.=348.97'

PI = 11+90.00
EL = 349.33'

END GRADE
-L_TMP3- STA.14+60.00
EL.=351.52'

PI = 14+20.00
EL = 351.20'
VC = 70'
K = 59

PI = 13+50.00
EL = 349.82'
VC = 70'
K = 42

(+)0.4310% (+)0.3031% (+)1.9750% (+)0.7984%

360 350 340 330 320

FOR -L_TMP3- PLAN SEE SHEET 4A

10+00 11+00 12+00 13+00 14+00 15+00

-DET1-

BEGIN GRADE
-DET1- STA.10+00.00
EL.=351.31'

END GRADE
-DET1- STA.13+40.42
EL.=348.60'

PI = 10+60.00
EL = 350.95'
VC = 100'
K = 164

PI = 12+25.00
EL = 348.95'
VC = 100'
K = 111

(−)0.6018% (−)1.2121% (−)1.0000% (−)1.2121% (+)0.9600% (−)0.3075%

BEGIN SPECIAL LATERAL BASE DITCH -DET1- STA 10+50 LT EL=350.10'

BEGIN SPECIAL LATERAL V DITCH -DET1- STA.10+50 RT EL=349.90'

END SPECIAL LATERAL V DITCH -DET1- STA.13+00 RT EL=347.00'

END SPECIAL LATERAL BASE DITCH -DET1- STA 13+00 LT EL=347.70'

RIGHT DITCH
LEFT DITCH

FOR -DET1- PLAN SEE SHEET 4A

360 350 340 330 320

10+00 11+00 12+00 13+00

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PROJECT REFERENCE NO.	SHEET NO.
W-5708A	6

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 014493 ENGINEER Stafford Goodnight

DocuSigned by: 2/5/2019
Jimmy Goodnight

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 18533 ENGINEER Andrew T. Nottingham

DocuSigned by: 2/5/2019
Andrew T. Nottingham

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OFF–SITE DETOUR ROUTE IMPROVEMENTS

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	7
RW SHEET NO.	

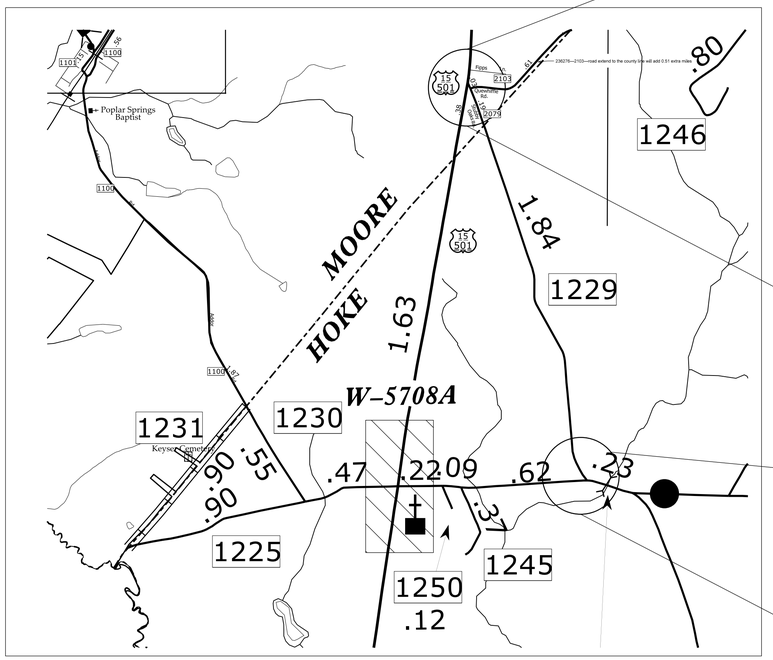
DIVISION DESIGN ENGINEER

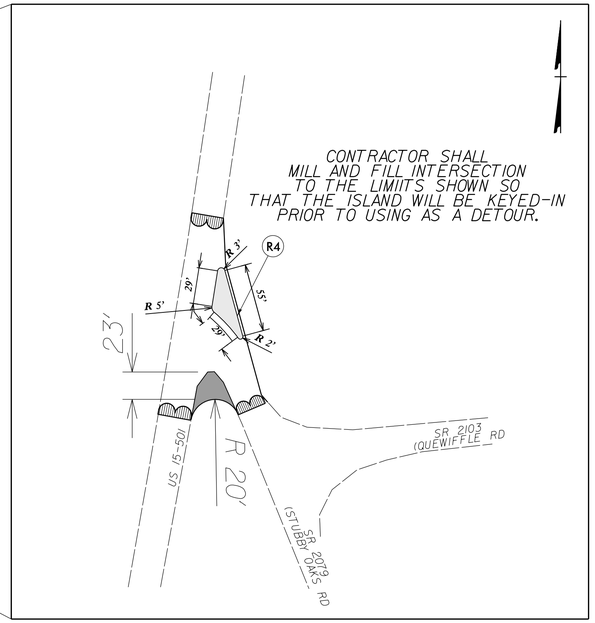
NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

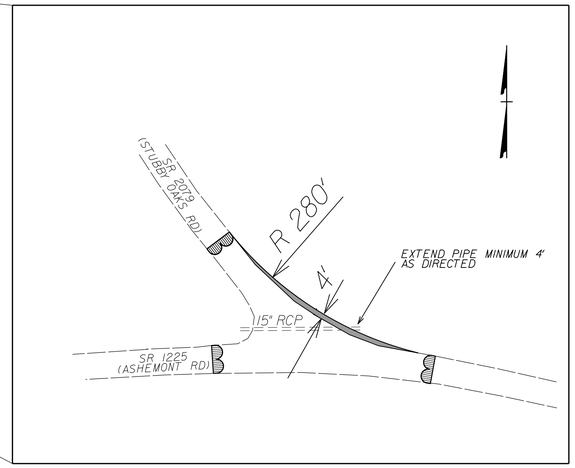
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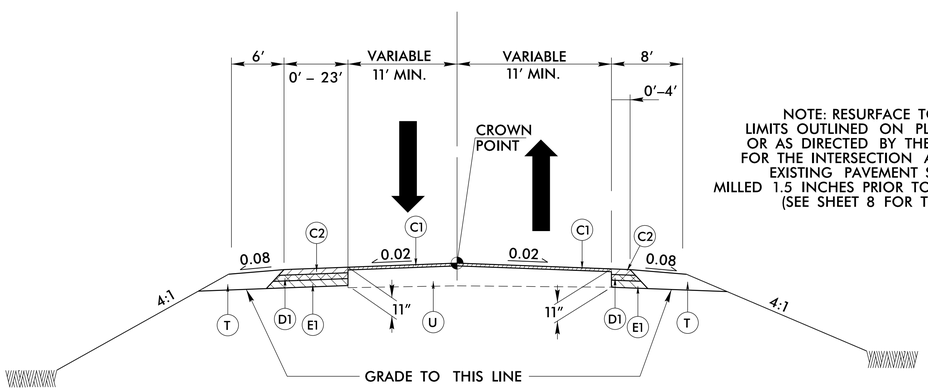






PAVEMENT SCHEDULE	
C1	1½" TYPE S9.5B
C2	3" TYPE S9.5B
D1	4" TYPE I19.0C
E1	4" TYPE B25.0C
R4	5" CONCRETE ISLAND (KEYED IN)
T	EARTH MATERIAL
U	EXISTING PAVEMENT

OFF–SITE DETOUR (SR 2079 (STUBBY OAKS RD))



WIDENING TYPICAL

NOTE: RESURFACE TO THE LIMITS OUTLINED ON PLANS ABOVE OR AS DIRECTED BY THE ENGINEER. FOR THE INTERSECTION AT US 15–501 EXISTING PAVEMENT SHALL BE MILLED 1.5 INCHES PRIOR TO RESURFACING. (SEE SHEET 8 FOR TYPICAL)

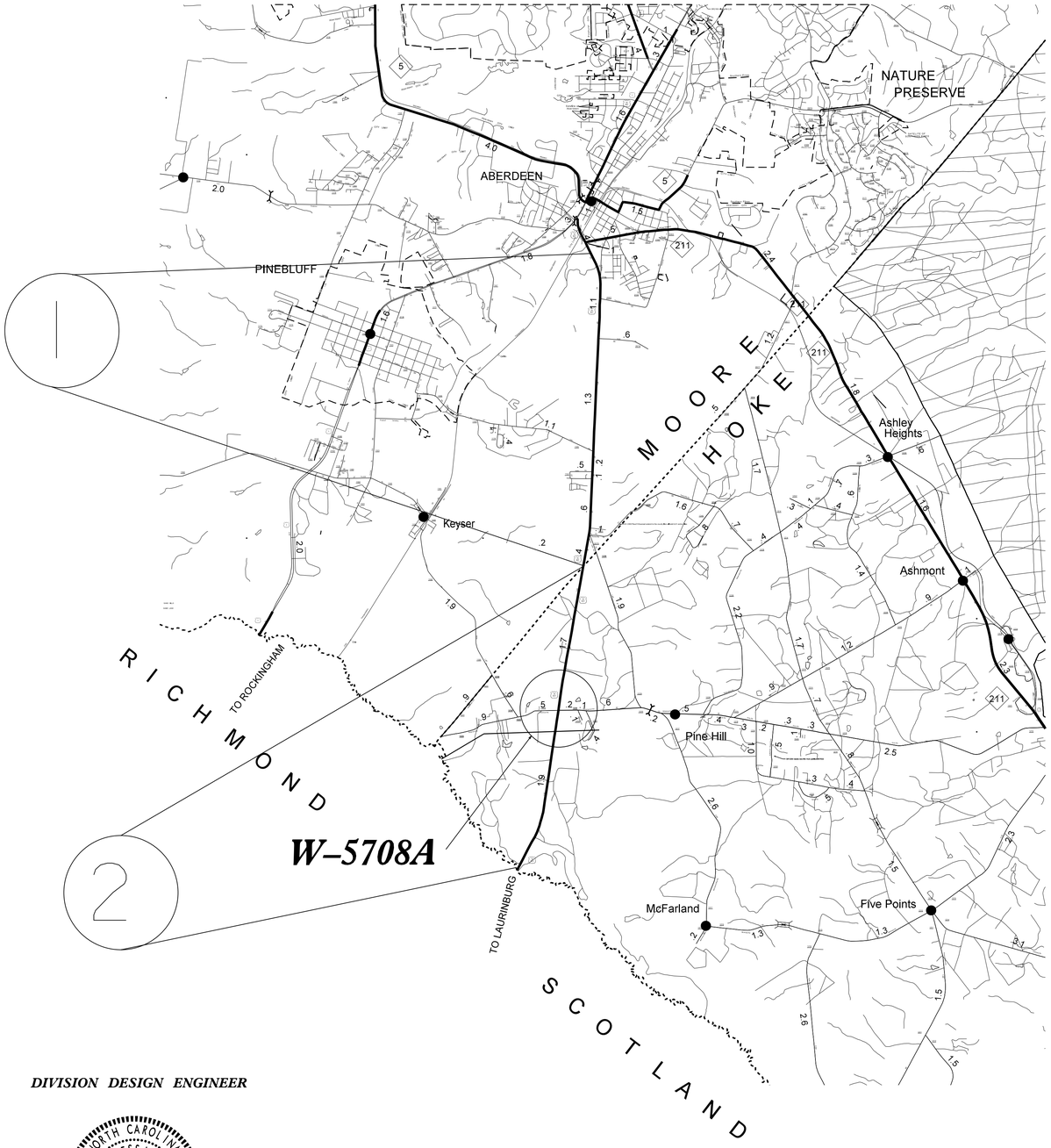
REVISIONS

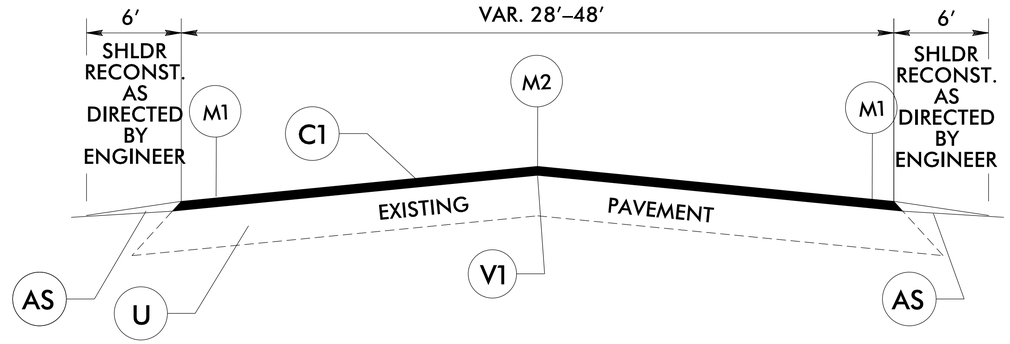
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gsdavis
DIV.0 31267JI

WBS ELEMENT	SHEET NO.
2018CPT.08.11.10471 2018CPT.08.11.10631 44854.3.1 (W-5708A)	8

RESURFACING DETAILS

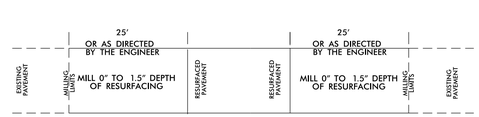




TYPICAL SECTION FOR RESURFACING US 15-501 MAPS #1 & #2

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5 " ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
M1	MILLED RUMBLE STRIP (EDGELINE, SEE SHEET 2C-1)
M2	MILLED RUMBLE STRIP (CENTERLINE, SEE SHEET 2C-1)
AS	AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	1.5" MILLING

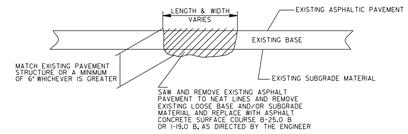


** MILLING TO BE PAID FOR AS INCIDENTAL MILLING

PAVEMENT TIE-IN DETAIL

DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING

DETAIL NO. 1



DIVISION DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

2/12/2019

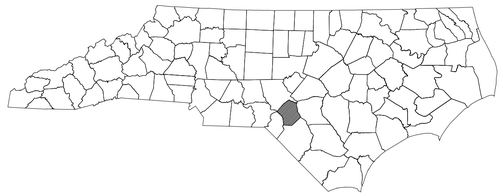
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Greg S. Davis
33D47B5FD78F4A8...

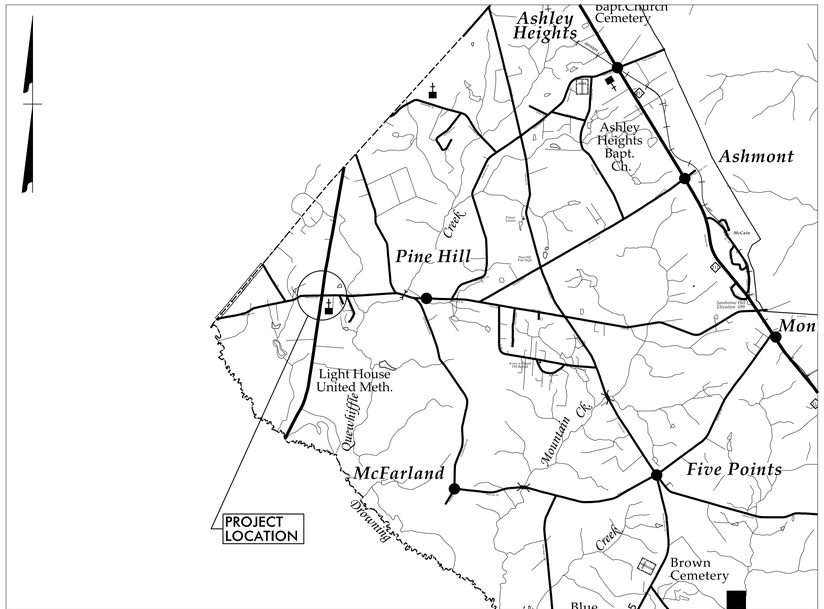
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

HOKE COUNTY





VICINITY MAP

LOCATION: INTERSECTION OF US 15-501 AND SR 1225 (ASHEMONT ROAD) SOUTH OF ABERDEEN
TYPE OF WORK: GRADING, PAVING AND DRAINAGE



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

PLANS PREPARED BY:

A. MATTHEW THIGPEN, P.E.

JODY LEWIS, P.E.

NCDOT CONTACTS:

MIKE STEELMAN
PROJECT ENGINEER

PROJECT DESIGN ENGINEER

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

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2A-2B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2C	SPECIAL SIGN DESIGN
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-5	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-6	TEMPORARY TRAFFIC CONTROL PHASE III DETAIL
TMP-7	TEMPORARY TRAFFIC CONTROL PHASE IV DETAIL
TMP-8	OFF-SITE DETOUR

SHEET NO.
TMP-1

TIP PROJECT: W-5708A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

vhb
940 Main Campus Drive, Suite 500
Raleigh, NC 27606
P: (919) 829-0328

APPROVED: DocuSigned by: Matthew Thigpen FD15553E9193410...

DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER A. MATTHEW THIGPEN

11/29/2018
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PROJ. REFERENCE NO.	SHEET NO.
W-5708A	TMP-1A

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - 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
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL

SIGNALS

EXISTING PROPOSED TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

P17	3FT.-3FT./SP WHITE MINISKIP	PAINT (8")
P8	2FT.-6FT./SP WHITE MINISKIP	PAINT (4")
P9	2FT.-6FT./SP YELLOW MINISKIP	PAINT (4")
P2	WHITE STOPBAR	PAINT (24")
PA	WHITE EDGELINE	PAINT (4")
PB	YELLOW EDGELINE	PAINT (4")
PI	YELLOW DOUBLE CENTER LINE	PAINT (4")
PN	WHITE GORELINE	PAINT (8")
PP	YELLOW DIAGONAL	PAINT (8")
QN	24" YIELD LINE TRIANGLE	PAINT

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DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROADWAY STANDARD DRAWINGS & LEGEND

1/14/2019
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User:MThigpen

PROJ. REFERENCE NO.	SHEET NO.
W-5708A	TMP-2A

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.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS	MONDAY THRU FRIDAY 7:00 A.M. TO 8:30 A.M.

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

ALL ROADS

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 3RD. IF NEW YEAR'S DAY IS ON A FRIDAY,SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.

3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. TUESDAY.

4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. WEDNESDAY.

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. WEDNESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY AND 7:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

   WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON US 15-501 AND SR 1225.

J) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

APPROVED: DocuSigned by: Matthew Thigpen FD15553E9193410...

DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES)

11/29/2018
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User:MThigpen

PROJ. REFERENCE NO.	SHEET NO.
W-5708A	TMP-2B

GENERAL NOTES CONTINUED

PAVEMENT EDGE DROP OFF REQUIREMENTS

K) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

L) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

M) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

N) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

O) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS AND PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

P) CONTRACTOR WILL COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION AND CONTRACTOR WILL COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

R) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

S) CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SIGN POST HOLES IN CONCRETE ISLANDS WITH DIVISION 8 TRAFFIC SERVICES UNIT. REFER TO ROADWAY STANDARD NOs. 901 THRU 904. SIGN HOLES SHALL EXTEND THROUGH PAVEMENT TO NATURAL GROUND.

TRAFFIC CONTROL DEVICES

S) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

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

U) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

V) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

W) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX MONTHS AFTER THE INITIAL APPLICATION AND EVERY 6 MONTHS AS DIRECTED BY THE ENGINEER.

X) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

Y) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

Z) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATION WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE CONES TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

AA) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

APPROVED: DocuSigned by: Matthew Thigpen FD15553E9193410...

DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES)

1/11/2019
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User:MThigpen

PROJ. REFERENCE NO.	SHEET NO.
W-5708A	TMP-2C

SIGN NUMBER: SP 01
TYPE: STATIONARY
QUANTITY: SEE PLANS

SIGN WIDTH: 3′-6″
HEIGHT: 2′-0″
TOTAL AREA: 7.0 Sq.Ft.

BORDER TYPE: INSET
RECESS: 0.47″
WIDTH: 0.63″
RADII: 1.5″

NO. Z BARS:
LENGTH:

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT′L: 0.080″ (2.0 mm) ALUMINUM

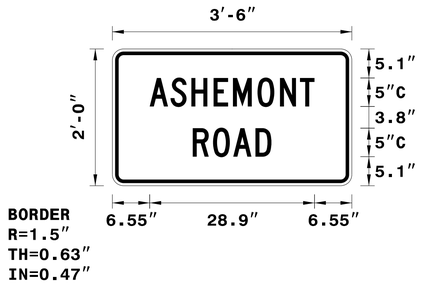
USE NOTES: 1,2

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

DESIGN BY: AM Thigpen
PROJECT ID: W-5708A

CHECKED BY:

Dec 21, 2017
DIV: 08



BORDER
R=1.5″
TH=0.63″
IN=0.47″

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

																											Series/Size Text Length
	A	S	H	E	M	O	N	T																			C 2000
	6.6	10.2	13.9	17.8	21.2	25.5	29.4	32.9																			28.9
	R	O	A	D																							C 2000
	14.1	17.7	21.2	25.1																							13.8

FILENAME: Guidsign_English

NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: DocuSigned by: Matthew Thigpen DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

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

SPECIAL SIGN DESIGNS

11/29/2018
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User:MThigpen

PROJ. REFERENCE NO.	SHEET NO.
W-5708A	TMP-3

PHASING

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS AS DIRECTED BY THE ENGINEER.

WEDGE EXISTING PAVEMENT IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANES.

COMPLETE WEDGING AND WIDENING SIMULTANEOUSLY SO THAT CURRENT TRAFFIC PATTERNS, DROP-OFF REQUIREMENTS AND POSITIVE DRAINAGE ARE MAINTAINED.

PHASE I

STEP 1
INSTALL WORK ZONE ADVANCE WARNING SIGNS. SEE RSD 1101.01.

STEP 2
AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, AND USING LANE CLOSURES (RSD NO. 1101.02, SHEET 1 OF 14), WHEN NECESSARY, COMPLETE CONSTRUCTION OF TEMPORARY PAVEMENT (SEE TMP-4).

* -L_TEMP3- FROM STA 10+00 +/- TO STA 15+66 +/-
* -DET1- FROM STA 10+00 +/- TO STA 13+40 +/-

USING LANE CLOSURES (RSD NO. 1101.02, SHEET 1 OF 14), COMPLETE CONSTRUCTION OF OFF-SITE DETOUR ROUTE IMPROVEMENTS AS SHOWN ON ROADWAY SHEET NO. 7.

STEP 3
USING LANE CLOSURES (RSD NO. 1101.02, SHEET 1 OF 14) PERFORM THE FOLLOWING:

PLACE TEMPORARY PHASE II PAVEMENT MARKINGS/MARKERS AS MUCH AS POSSIBLE WITHOUT INTERFERING WITH THE EXISTING TRAFFIC PATTERN (SEE TMP-5).

PLACE PAVEMENT MARKINGS ON OFF-SITE DETOUR ROUTE AS SHOWN ON SHEET PMP-3.

STEP 4
WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, SHIFT US 15-501 AND SR 1225 TRAFFIC IN THE FOLLOWING SEQUENCE:

A) USING RSD 1101.03, CLOSE SR 1225 EAST OF THE INTERSECTION WITH US 15-501. DETOUR TRAFFIC ALONG ROUTE SHOWN ON TMP-8.

B) USING RSD 1101.03, CLOSE SR 1225 WEST OF THE INTERSECTION WITH US 15-501 AND DIRECT TRAFFIC TO ON-SITE DETOUR ROUTE SHOWN ON TMP-5.

C) USING FLAGGERS, PLACE ALL TRAFFIC IN A 1L, 2W PATTERN IN THE EXISTING SB LANE ON US 15-501.

D) WITH ALL US 15-501 TRAFFIC IN THE EXISTING SB LANE, TIE IN THE PROPOSED NB LANE OF THE TEMPORARY PAVEMENT AND INSTALL A DOUBLE YELLOW CENTERLINE AND WHITE EDGELINE MARKINGS.

E) HAVE FLAGGERS DIRECT TRAFFIC TO NEWLY CONSTRUCTED -L_TEMP3- IN A 1L, 2W PATTERN IN THE PROPOSED NB LANE.

F) WITH ALL US 15-501 TRAFFIC IN THE PROPOSED NB LANE, TIE IN PROPOSED SB LANE OF THE TEMPORARY PAVEMENT AND TIE IN THE SB WHITE EDGELINE MARKINGS.

G) ENSURE ALL TRAFFIC CONTROL DEVICES ON US 15-501 AND SR 1225 ARE CORRECT AND OPEN LANES TO PHASE II 2L, 2W TRAFFIC PATTERN.

PHASE II

STEP 1
AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, AND USING LANE CLOSURES (RSD NO. 1101.02, SHEET 1 OF 14), WHEN NECESSARY, COMPLETE CONSTRUCTION OF AS MUCH OF THE ROUNDABOUT WEST OF THE US 15-501 TEMPORARY ALIGNMENT AS POSSIBLE UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

PHASE II CONT.

CONSTRUCT PROPOSED DRAINAGE CROSS PIPES AS FOLLOWS:

USE LANE CLOSURES (RSD NO. 1101.02, SHEET 1 OF 14) AS NEEDED.

PATCH PAVEMENT WITH ASPHALT PLANT MIX AND RESTORE TRAFFIC TO ITS PRIOR PATTERN BY THE END OF THE WORK PERIOD.

STEP 2
AWAY FROM TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS IN THE PHASE III TRAFFIC PATTERN AS MUCH AS POSSIBLE WITHOUT INTERFERING WITH THE CURRENT PHASE II TRAFFIC PATTERN.

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE ALL WORK IN PHASE II, STEP 3

STEP 3
AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, AND USING LANE CLOSURES (RSD NO. 1101.02, SHEET 1 OF 14), WHEN NECESSARY, INSTALL REMAINING PHASE III PAVEMENT MARKINGS, TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNING AS SHOWN ON SHEET TMP-6. SHIFT SOUTHBOUND US 15-501 TRAFFIC TO USE THE WEST SIDE OF THE ROUNDABOUT AS SHOWN ON SHEET TMP-6. SHIFT SR 1225 TRAFFIC WEST OF THE ROUNDABOUT FROM THE TEMPORARY ON-SITE DETOUR TO THE ROUNDABOUT AS SHOWN ON SHEET TMP-6.

PHASE III

STEP 1
AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, AND USING LANE CLOSURES (RSD NO. 1101.02, SHEET 1 OF 14), WHEN NECESSARY, COMPLETE CONSTRUCTION OF THE CENTER ISLAND OF THE ROUNDABOUT AND CURB & GUTTER AS SHOWN ON SHEET TMP-6.

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE ALL WORK IN PHASE III, STEP 2.

STEP 2
PLACE TEMPORARY PAVEMENT MARKINGS & MARKERS IN THE PHASE IV PATTERN, SHIFT NORTHBOUND US 15-501 TRAFFIC TO THE ROUNDABOUT AND INSTALL ALL REMAINING TRAFFIC CONTROL DEVICES AS SHOWN ON SHEET TMP-7.

PHASE IV

STEP 1
AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, AND USING LANE CLOSURES (RSD NO. 1101.02, SHEET 1 OF 14), WHEN NECESSARY, COMPLETE ALL REMAINING CONSTRUCTION OF ROUNDABOUT, MONOLITHIC ISLANDS, CURB & GUTTER AND EXISTING PAVEMENT REMOVAL AS SHOWN ON SHEET TMP-7 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

STEP 2
USING RSD 1101.02 (SHEET 1 OF 14), PLACE FINAL LAYER OF SURFACE COURSE AND INSTALL FINAL PAVEMENT MARKINGS AND MARKERS AS SHOWN IN THE FINAL PAVEMENT MARKING PLANS.

STEP 3
REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND OPEN ALL LANES TO PROPOSED TRAFFIC PATTERN.

APPROVED: DocuSigned by: Matthew Thigpen DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

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

PHASING

11/29/2018
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User:MThigpen

PROJ. REFERENCE NO.	SHEET NO.
W-5708A	TMP-4

NAD 83/NA 2011

SR 1225
ASHEMONT RD.

BEGIN TEMPORARY PAVEMENT
-DET1- STA. 10+00.00

END TEMPORARY PAVEMENT
-DET1- STA. 13+40.42

BEGIN TEMPORARY PAVEMENT
-L_TEMP3- STA. 10+00.00

15+00

US 15-501

US 15-501

COLLAR AND EXTEND

END TEMPORARY PAVEMENT
-L_TEMP3- STA. 15+65.85

STOP
R1-1

SEE ROADWAY PLANS FOR
TEMPORARY ALIGNMENT INFORMATION

SR 1225
ASHEMONT RD.

15+00

APPROVED: DocuSigned by: Matthew Thigpen DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

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

PHASE I DETAIL

11/29/2018
\\vhb\gbl\proj\Raleigh\38621.01NCDOT W-5708A Hoke\NCDOT\Traffic\TrafficControl\TCP\W5708A_tc_tmp04.dgn
User:MThigpen

PROJ. REFERENCE NO.	SHEET NO.
W-5708A	TMP-5

NAD 83/NA 2011

CMS #3
SEE CMS MESSAGES

-Y1- STA. 10+50 +/-

SEE RSD 1101.03 FOR ADVANCE ROAD CLOSURE SIGNING

SR 1225
ASHEMONT RD.

12'
12'

R11-2
48" x 30"
ROAD CLOSED
DETOUR
M4-10R
48" x 18"
TYPE III BARRICADE

STOP
R1-1

P2

PI MA

10'
10'

STOP
R1-1

-L1- STA. 11+50 +/-

SEE TMP-8 FOR ADDITIONAL DETOUR ROUTE SIGNING ALONG US 15-501

PA PI MA

P2

US 15-501

12'
12'

P8

-L2- STA. 12+22 +/-

PI MA PA

ROAD CLOSED
W20-3
48" X 48"

NEXT LEFT
SP-4L
42" X 12"

W24-1L
48" X 48"

35
M.P.H.
W13-1
24" X 24"

15+00

CMS #2
SEE CMS MESSAGES

US 15-501

SEE TMP-8 FOR ADDITIONAL DETOUR ROUTE SIGNING ALONG US 15-501

CMS #1
SEE CMS MESSAGES

W24-1R
48" X 48"

35
M.P.H.
W13-1
24" X 24"

ROAD CLOSED
W20-3
48" X 48"

NEXT RIGHT
SP-4R
42" X 12"

ASHEMONT ROAD
DETOUR
M4-8
24" X 12"

M6-1 L
21" X 15"

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE

JB wMH

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE

USING LANE CLOSURES, WEDGE TEMPORARY ALIGNMENT OF US 15-501 TO BRING ROADWAY UP TO CONSTRUCTION ELEVATION OF THE ROUNDABOUT

SR 1225
ASHEMONT RD.

12'
12'

-Y2- STA. 14+65 +/-

SEE RSD 1101.03 FOR ROAD CLOSURE
SEE TMP-8 FOR DETOUR ROUTE

15+00

CMS #1 & #2

2 WEEKS PRIOR TO TRAFFIC SHIFT	
MESSAGE NO. 1	MESSAGE NO. 2
NEW TRAFFIC PATTERN	BEGIN MM/DD
CHANGEABLE MESSAGE SIGN	

FOLLOWING THE TRAFFIC SHIFT BEGINNING MORNING OF SHIFT	
MESSAGE NO. 1	MESSAGE NO. 2
TRAFFIC SHIFT 1000 FT	ADVISORY SPEED 35 MPH
CHANGEABLE MESSAGE SIGN	

CMS #3

2 WEEKS PRIOR TO CLOSURE	
MESSAGE NO. 1	MESSAGE NO. 2
ROAD TO CLOSE	BEGIN MM/DD
CHANGEABLE MESSAGE SIGN	

FOLLOWING THE ROAD CLOSURE AND SHIFT TO ONSITE DETOUR	
MESSAGE NO. 1	MESSAGE NO. 2
ROAD CLOSED AHEAD	FOLLOW DETOUR
CHANGEABLE MESSAGE SIGN	

APPROVED: DocuSigned by: Matthew Thigpen DATE:

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

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

PHASE II DETAIL

1/14/2019
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User:MThigpen

PROJ. REFERENCE NO.	SHEET NO.
W-5708A	TMP-6

NAD 83/NA 2011

CMS #3
SEE CMS MESSAGES

SEE RSD 1101.03 FOR ADVANCE
ROAD CLOSURE SIGNING

-Y1- STA. 10+50 +/-
TIE TO EXISTING
MARKINGS

SR 1225
ASHEMONT RD.

12'

12'

-Y1- STA. 11+52 +/-

PA

R11-2
48" x 30"

ROAD
CLOSED
DETOUR

M4-10R
48" x 18"

TYPE III BARRICADE

STOP
R1-1

PI

PP

QN

PB

R6-4
30" X 24"

YIELD
R1-2
48" x 48" x 48"

ROAD
CLOSED
W20-3
48" X 48"

NEXT LEFT
SP-4L
42" X 12"

W2-6
48" X 48"

STOP
R1-1

-L1- STA. 12+97 +/-
TIE TO EXISTING
MARKINGS

P9

P17

QN

TN

P17

15+00

CMS #2
SEE CMS MESSAGES

US 15-501

US 15-501

CMS #1
SEE CMS MESSAGES

PB MA

-L1- STA. 14+08 +/-

PA

PB MA

PA

-L2- STA. 11+76 +/-

-L2- STA. 12+63 +/-
TIE TO EXISTING
MARKINGS

-L1- STA. 14+80 +/-

W24-1R
48" X 48"

35
M.P.H.
W13-1
24" X 24"

ROAD
CLOSED
W20-3
48" X 48"

NEXT RIGHT
SP-4R
42" X 12"

R11-2
48" x 30"

ROAD
CLOSED
W1-6R
48" x 24"

TYPE III BARRICADE

R11-2
48" x 30"

ROAD
CLOSED

TYPE III BARRICADE

JB

PP

PI

SR 1225
ASHEMONT RD.

PA

-Y2- STA. 14+65 +/-

SEE RSD 1101.03 FOR ROAD CLOSURE
SEE TMP-8 FOR DETOUR ROUTE

15+00

CMS #1 & #2

2 WEEKS PRIOR TO TRAFFIC SHIFT

MESSAGE NO. 1	MESSAGE NO. 2
NEW TRAFFIC PATTERN	BEGIN MM/DD

CHANGEABLE MESSAGE SIGN

FOLLOWING THE TRAFFIC SHIFT BEGINNING MORNING OF SHIFT

MESSAGE NO. 1	MESSAGE NO. 2
TRAFFIC SHIFT 1000 FT	ADVISORY SPEED 35 MPH

CHANGEABLE MESSAGE SIGN

CMS #3

MESSAGE NO. 1	MESSAGE NO. 2
ROAD CLOSED AHEAD	FOLLOW DETOUR

CHANGEABLE MESSAGE SIGN

APPROVED: DocuSigned by: Matthew Thigpen DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

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

PHASE III DETAIL

5/14/2019
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User:MThigpen

PROJ. REFERENCE NO.	SHEET NO.
W-5708A	TMP-7

NAD 83/NA 2011

-Y1- STA. 10+50 +/-

SR 1225
ASHEMONT RD.

W2-6
48" X 48"

-L1- STA. 11+50 +/-

YIELD
R1-2
48" x 48" x 48"

R6-4
30" X 24"

YIELD
R1-2
48" x 48" x 48"

W2-6
48" X 48"

15+00

PI
PB
PN
P17
PI
PP
PB
PP
QN

US 15-501

US 15-501

-L2- STA. 10+00 +/-

-L2- STA. 11+76 +/-

-L2- STA. 13+50 +/-

W2-6
48" X 48"

R11-2
48" x 30"
ROAD CLOSED
W1-6L
48" x 24"
TYPE III BARRICADE

YIELD
R1-2
48" x 48" x 48"

-L1- STA. 14+80 +/-

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE

JB
JB

SR 1225
ASHEMONT RD.

-Y2- STA. 14+65 +/-

15+00

SEE RSD 1101.03 FOR ROAD CLOSURE
SEE TMP-8 FOR DETOUR ROUTE

APPROVED: DocuSigned by: Matthew Thigpen DATE:

SEAL

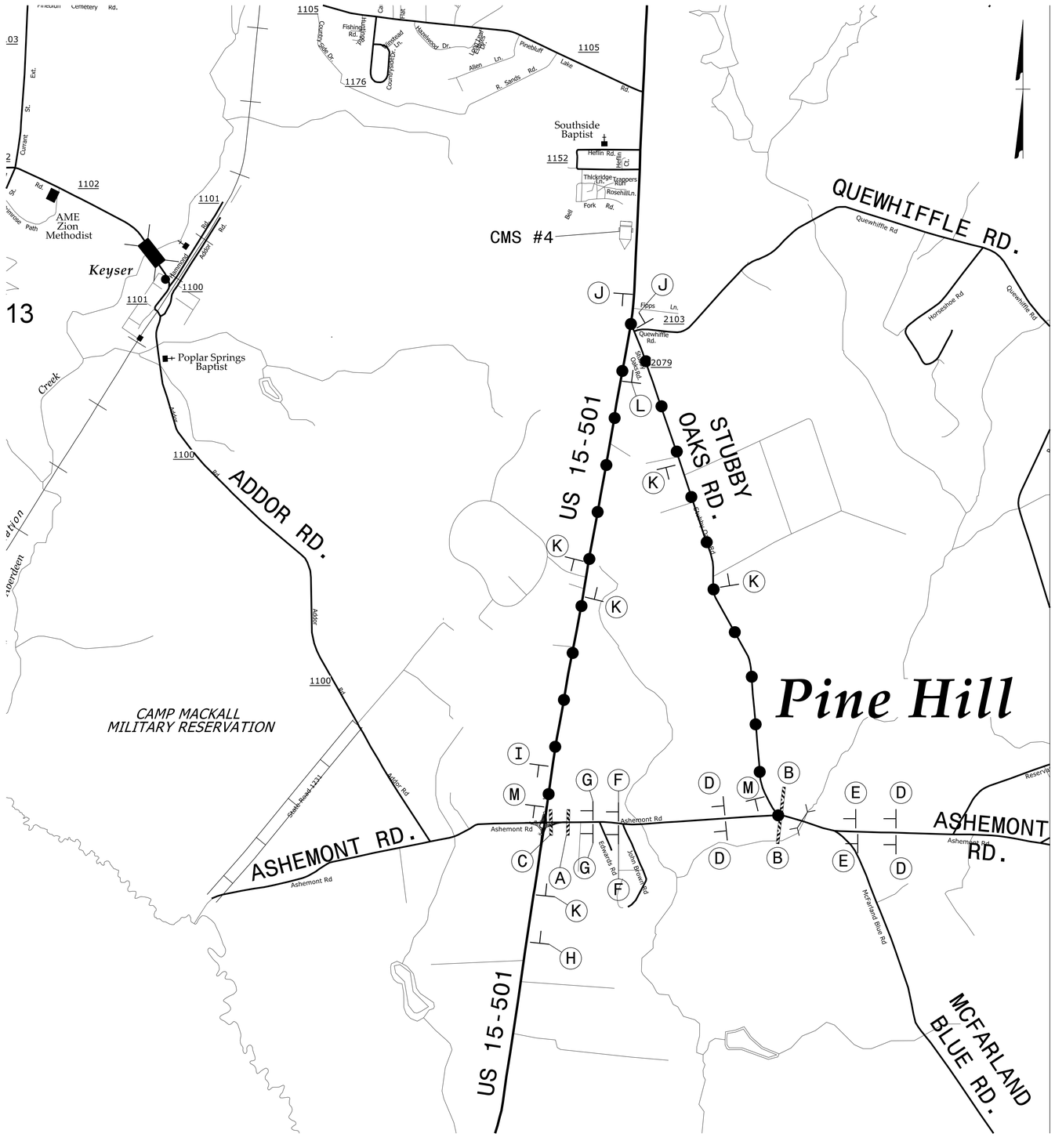
NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

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

PHASE IV DETAIL

1/14/2019
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User:MThigpen

PROJ. REFERENCE NO.	SHEET NO.
W-5708A	TMP-8



A

R11-2
48″ x 30″

ROAD CLOSED

TYPE III BARRICADE(S)

B

R11-4
60″ x 30″

ROAD CLOSED TO THRU TRAFFIC

DETOUR

M4-10R
48″ x 18″

TYPE III BARRICADE

C

R11-2
48″ x 30″

ROAD CLOSED

DETOUR

M4-10L
48″ x 18″

TYPE III BARRICADE

D

ROAD CLOSED AHEAD

W20-3
48″ X 48″

E

DETOUR AHEAD

W20-2
48″ X 48″

F

ROAD CLOSED 1000 FT

W20-3
48″ X 48″

G

ROAD CLOSED 500 FT

W20-3
48″ X 48″

H

ROAD CLOSED

W20-3
48″ X 48″

NEXT RIGHT

SP-4R
42″ X 12″

I

ROAD CLOSED

W20-3
48″ X 48″

NEXT LEFT

SP-4L
42″ X 12″

J

ASHEMONT ROAD

DETOUR

M4-8
24″ X 12″

M6-1 L
21″ X 15″

K

ASHEMONT ROAD

DETOUR

M4-8
24″ X 12″

M6-3
21″ X 15″

L

ASHEMONT ROAD

DETOUR

M4-8
24″ X 12″

M6-1
21″ X 15″

M

END DETOUR

M4-8 A
24″ X 18″

CMS #4 TO BE USED FOR DURATION OF ROAD CLOSURE

MESSAGE NO. 1	MESSAGE NO. 2
EASTBOUND ASHEMONT CLOSED	FOLLOW DETOUR ROUTE

CHANGEABLE MESSAGE SIGN

APPROVED: DocuSigned by: Matthew Thigpen DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

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

DETOUR SIGNING

1/14/2019
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User:MThigpen

T.I.P.: W-5708A

CONTRACT:

TIP NO.	SHEET NO.
W-5708A	PMP-1

APPROVED: DocuSigned by: Matthew Thigpen FD15553E9193410...

DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
HOKE COUNTY

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	TOTAL QUANTITY
	THERMOPLASTIC (4", 90 MILS)	TOTAL 2,802 LF
TA	WHITE EDGELINE	
TB	YELLOW EDGELINE	
	THERMOPLASTIC (4", 120 MILS)	TOTAL 3,631 LF
TI	YELLOW DOUBLE CENTER	
	THERMOPLASTIC (8", 90 MILS)	TOTAL 360 LF
TN	WHITE GORELINE	
TP	YELLOW DIAGONAL	
	THERMOPLASTIC (8", 120 MILS)	TOTAL 80 LF
T17	3FT. -3FT./SP WHITE MINISKIP	
	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)	TOTAL 25 EA
UN	24" YIELD LINE TRIANGLE	
	PERMANENT RAISED PAVEMENT MARKERS	TOTAL 59 EA
MA	YELLOW & YELLOW	

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2	PAVEMENT MARKING DETAIL
PMP-3	PAVEMENT MARKING FOR OFF SITE DETOUR

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 AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
US 15-501	THERMOPLASTIC	SNOWPLOWABLE
SR 1225	THERMOPLASTIC	SNOWPLOWABLE

B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

E) 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.

F) MARKERS SHALL BE INSTALLED ACCORDING TO THE NCDOT ROADWAY STANDARD DRAWING 1250.01.

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - 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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

PLAN REVIEWED BY: N.C.D.O.T. DIVISION OFFICE

GREGORY DAVIS, PE SIGNING & DELINEATION PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PLAN PREPARED BY: VHB Engineering NC, P.C.

A. Matthew Thigpen, PE PROJECT ENGINEER

vhb
940 Main Campus Drive, Suite 500
Raleigh, NC 27606
P: (919) 829-0328
NC License No. C-3705

2/1/2019
V:\Projects\Proj\Raleigh\38621.01 NCDOT W-5708A Hoke\NCDOT\Traffic\Pavement Marking\PEF Pavement Marking Seed_01-17-17.dgn
User:MThigpen

TIP NO.	SHEET NO.
W-5708A	PMP-2

APPROVED: DocuSigned by: Matthew Thigpen FD15553E9193410...

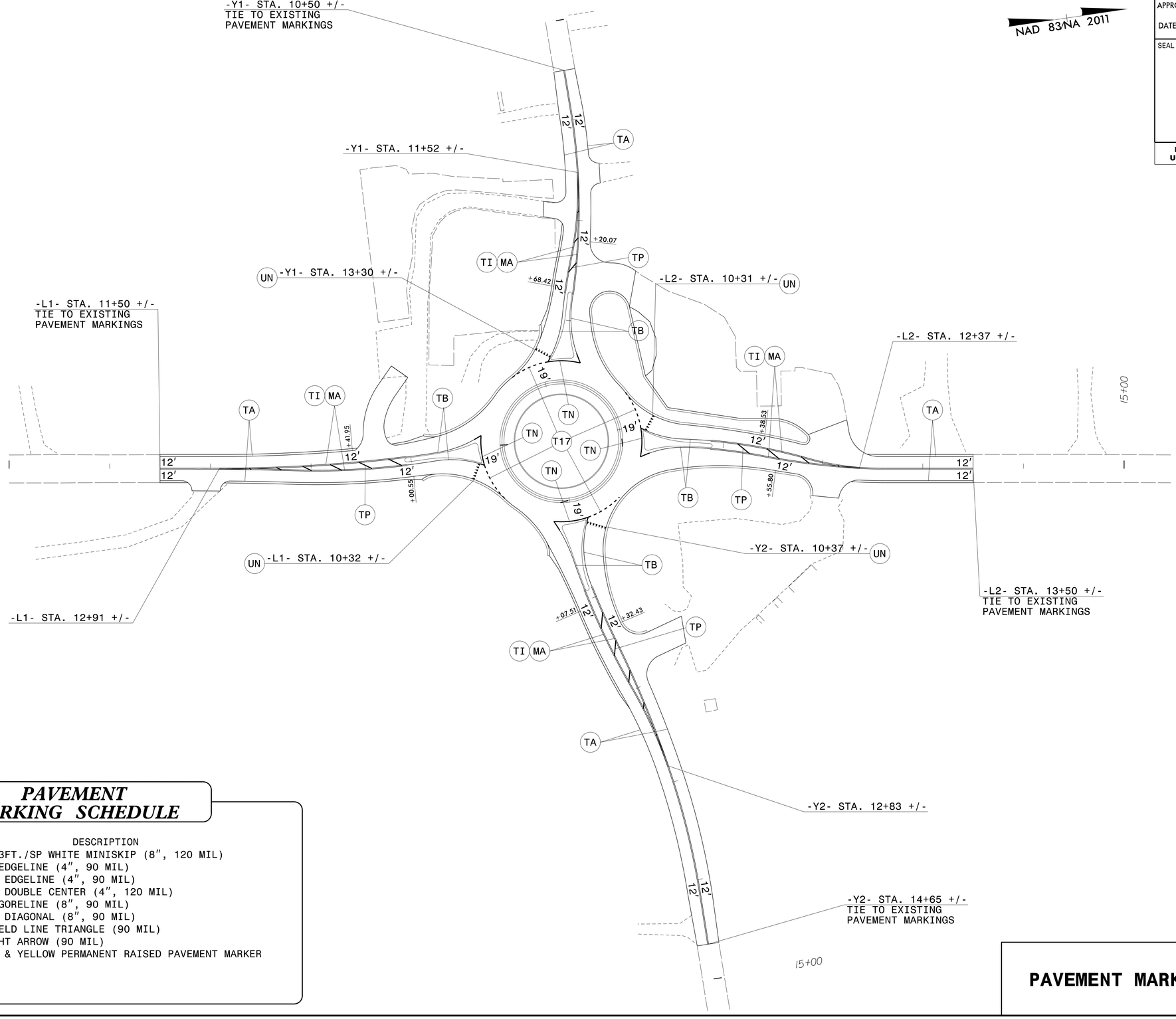
DATE:

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 034343 ENGINEER MATTHEW THIGPEN

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/NA 2011



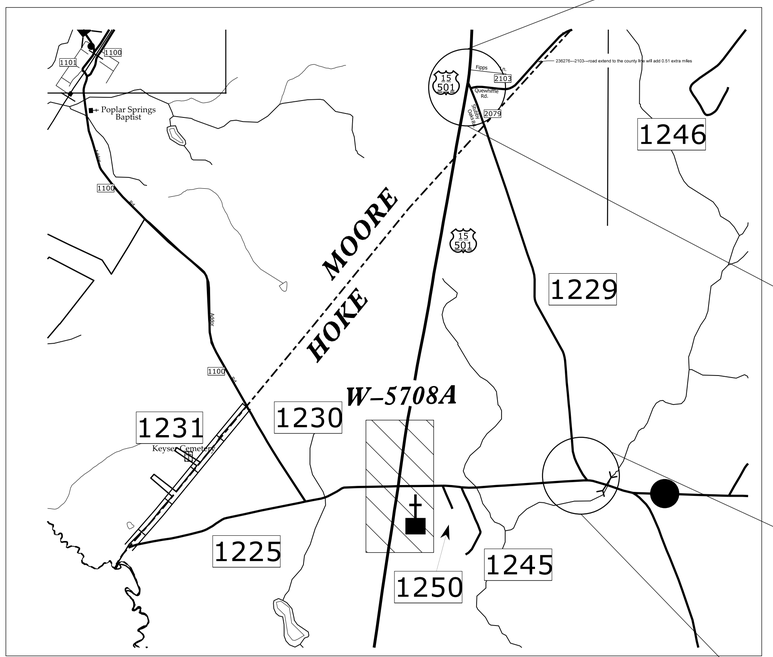
PAVEMENT MARKING SCHEDULE

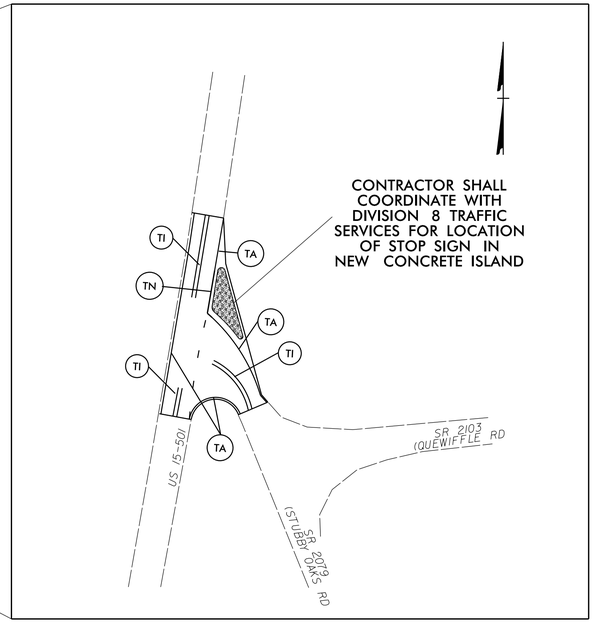
SYMBOL	DESCRIPTION
T17	3FT.- 3FT./SP WHITE MINISKIP (8", 120 MIL)
TA	WHITE EDGELINE (4", 90 MIL)
TB	YELLOW EDGELINE (4", 90 MIL)
TI	YELLOW DOUBLE CENTER (4", 120 MIL)
TN	WHITE GORELINE (8", 90 MIL)
TP	YELLOW DIAGONAL (8", 90 MIL)
UN	24" YIELD LINE TRIANGLE (90 MIL)
UC	STRAIGHT ARROW (90 MIL)
MA	YELLOW & YELLOW PERMANENT RAISED PAVEMENT MARKER

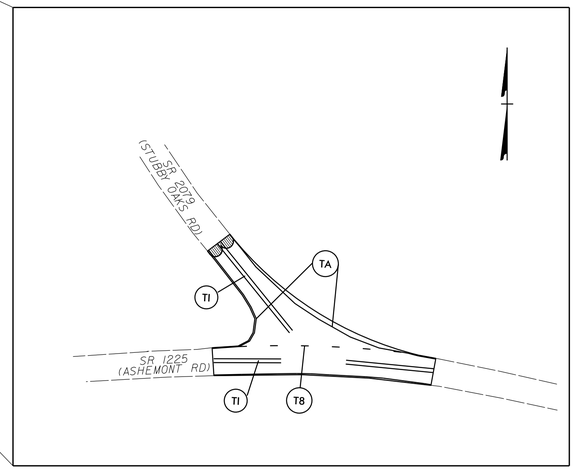
PAVEMENT MARKING DETAIL

1/4/2019
\\nhb\gdh\proj\Raleigh\38621.01\NCDOT W-5708A Hoke\NCDOT\Traffic\Pavement Marking\W5708A_pm_psh04.dgn
User:Mthigpen

OFF–SITE DETOUR ROUTE IMPROVEMENTS







PAVEMENT MARKING SCHEDULE	
T8	4" WHITE THERMO (120 MIL) - 2' X 6' SP MINI SKIP
TA	4" WHITE THERMO (90 MIL) - EDGE LINE
TI	4" YELLOW THERMO (120 MIL) - DOUBLE CENTER LINE
TN	8" WHITE THERMO (90 MIL) - GORELINE

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	PMP-3
RW SHEET NO.	

DIVISION DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG T DAVIS

Greg S. Davis 2/12/2019

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PAVEMENT MARKING LEGEND

- —CRYSTAL / RED PAVEMENT MARKER
- —YELLOW / YELLOW PAVEMENT MARKER
- —CRYSTAL / CRYSTAL PAVEMENT MARKER

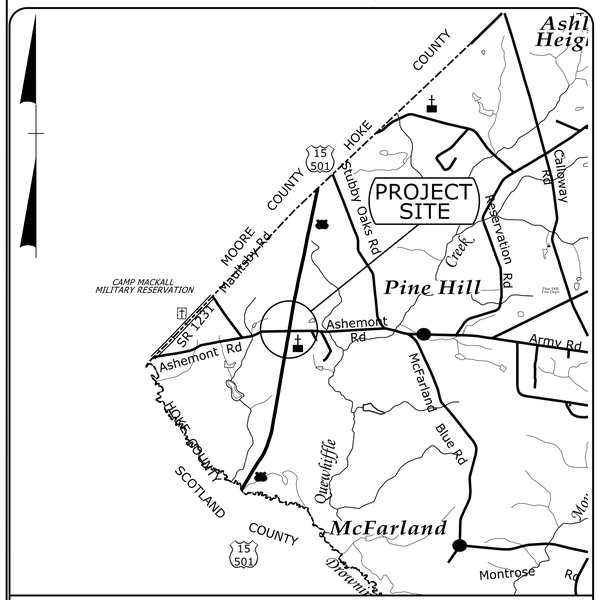
REVISIONS

8/17/99

12-FEB-2019 10:51
C:\Projects\15-501\src_1225\ashemont_rd\DetourRouteRD.dgn
gsdavis
$$USER-31267$$

TIP PROJECT: W-5708A

See Sheet 1B For Conventional Symbols



VICINITY MAP
NOT TO SCALE

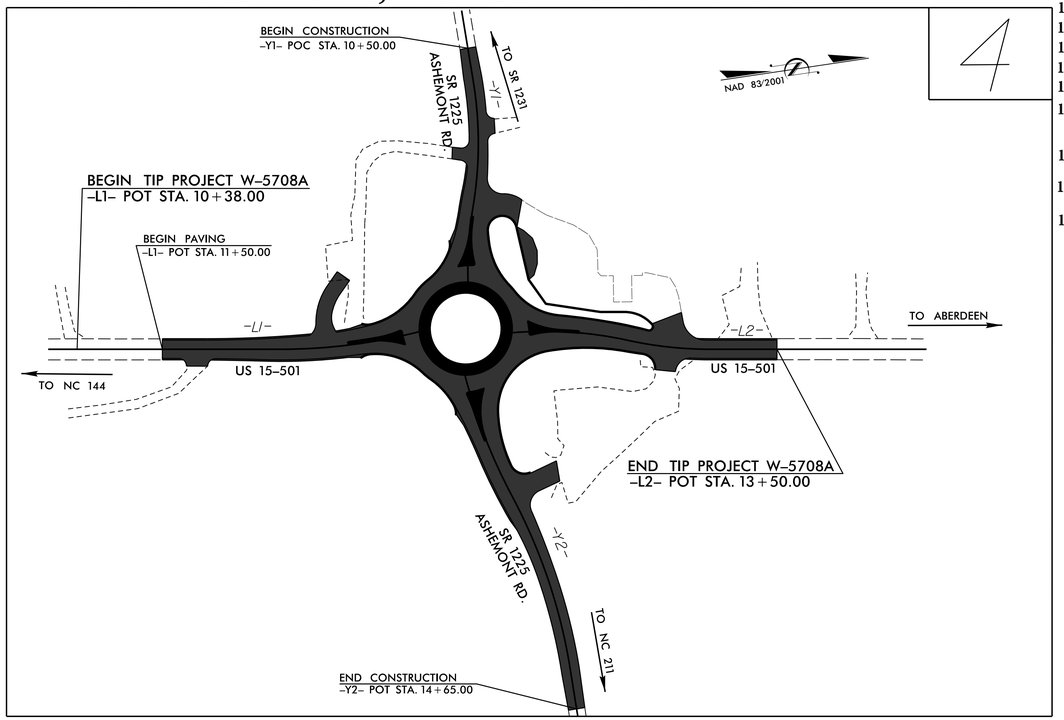
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

HOKE COUNTY

LOCATION: INTERSECTION OF US 15–501 AND SR 1225 (ASHEMONT ROAD) SOUTH OF ABERDEEN

TYPE OF WORK: GRADING, PAVING AND DRAINAGE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5708A	EC-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	

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	EW CFW
	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	

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

GRAPHIC SCALE

25 0 50

PLANS

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

Prepared In the Office of:

MI ENGINEERING, PLLC
1011 SCHAUB DR SUITE 100
RALEIGH, NC 27606

Designed by:

GREGORY COLS ***3187***
NAME *LEVEL III CERTIFICATION NO.*

Reviewed In the Office of:

ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

Reviewed by:

WES CHANDLER

Roadway Standard Drawings

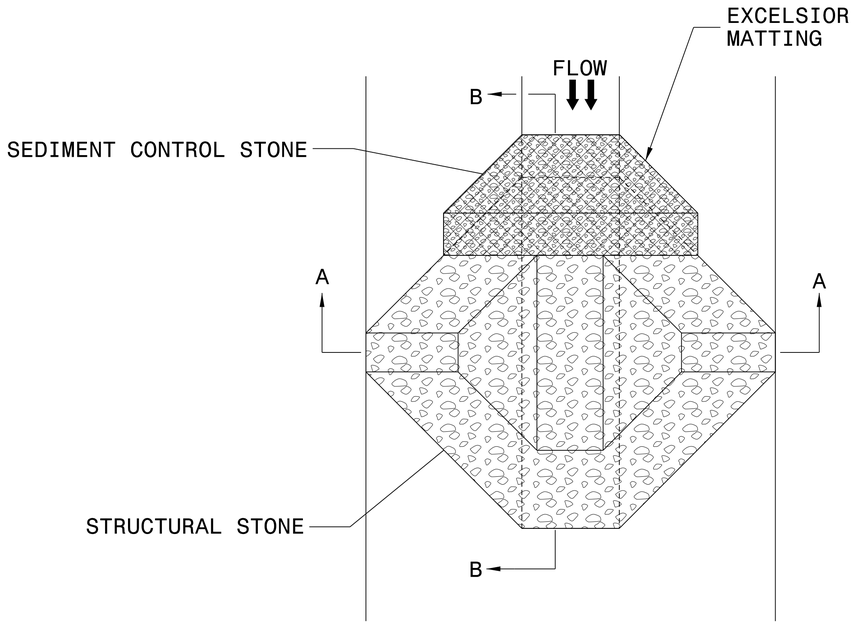
The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2018 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

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 Cheek Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Cheek 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		

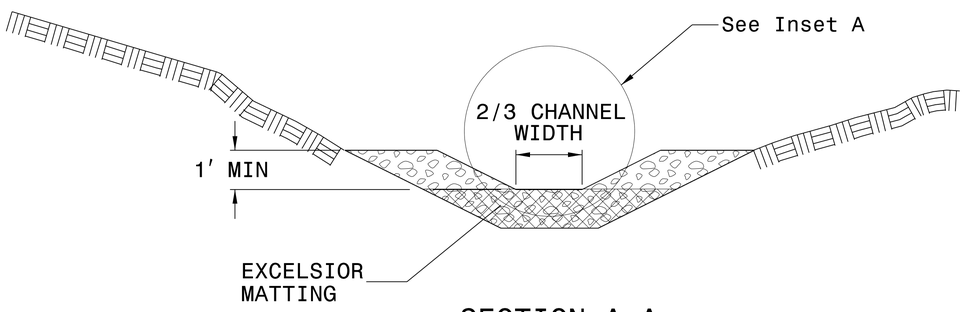
DESIGN SYSTEMS
MICROSTATION V8
DGN FILE NAME: EC-1.DGN

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN



SECTION A-A

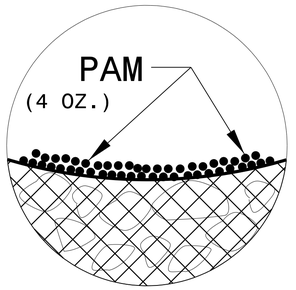
NOTES:

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

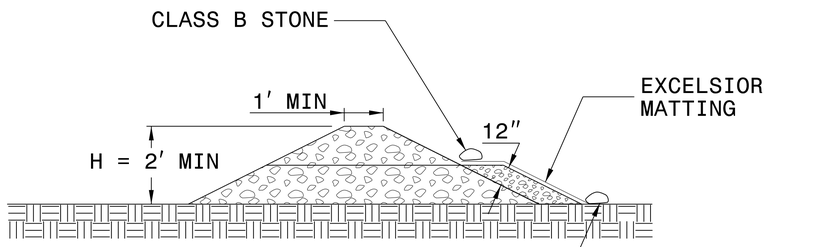
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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

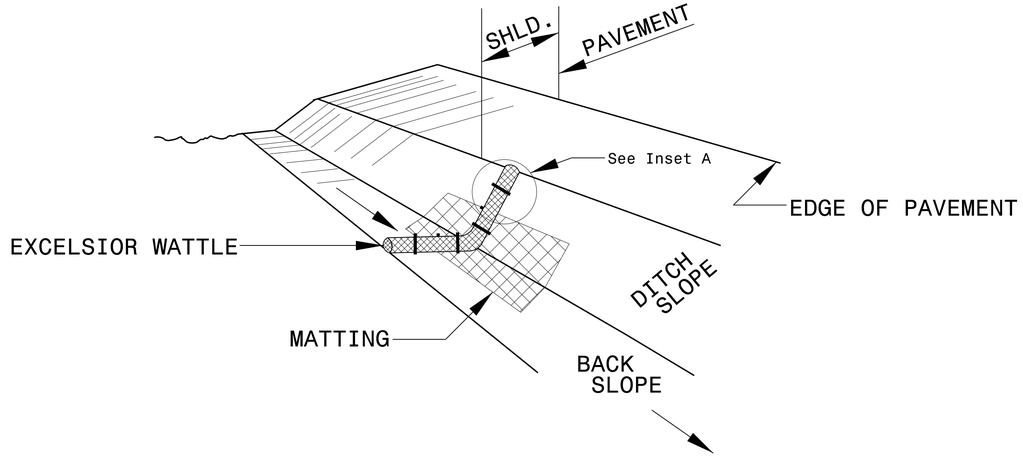


SECTION B-B

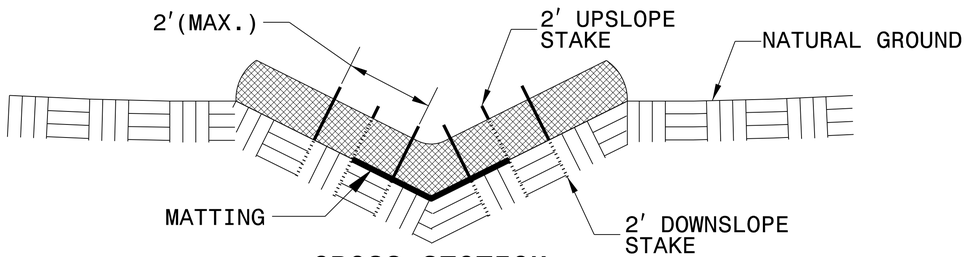
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

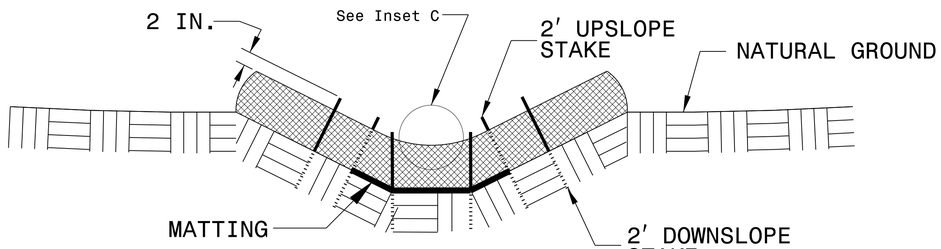
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

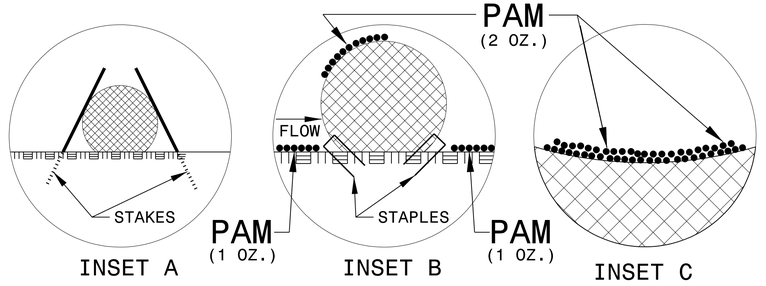
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

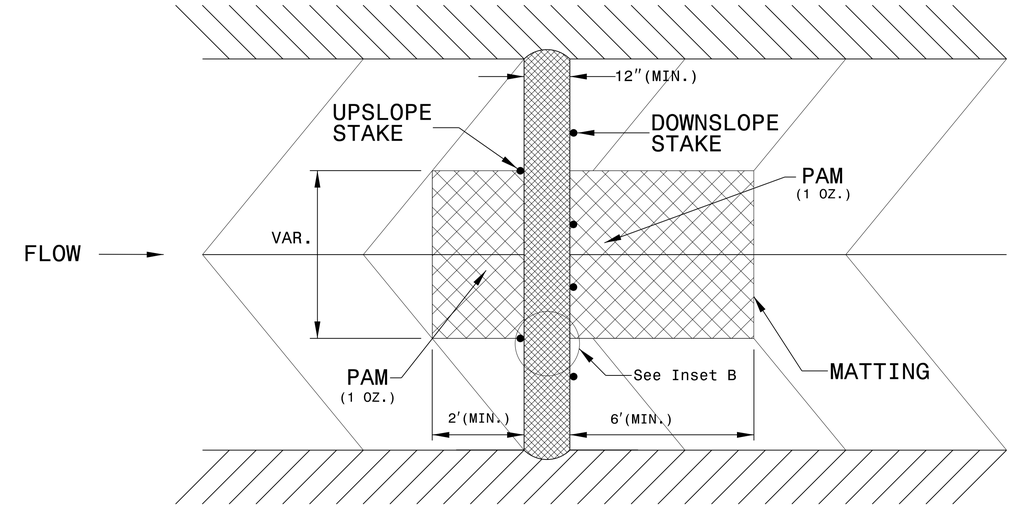
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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 MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L1-	10+50	13+37	LT.	275
4	-Y1-	11+00	13+00	RT.	155
4	-Y2-	10+50	14+31	RT.	381
4	-L2-	10+50	11+89	RT.	100
4	-Y2-	10+42	11+36	LT.	70
4A	-DET1-	10+50	13+00	LT./RT.	205
				SUBTOTAL	980
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					7660
				TOTAL	8640
				SAY	8640

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-Y2-	11+89	14+65	LT.	305
				SUBTOTAL	305
		ADDITIONAL PSRM TO BE INSTALLED			0
				TOTAL	305
				SAY	305

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	EC-04/CONST.04A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

8/17/99

NAD 83 NA 2011 NC GRID

CLEARING AND GRUBBING PLAN

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4A

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

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

BEGIN TEMPORARY PAVEMENT
–DET1– STA. 10 + 00.00

END TEMPORARY PAVEMENT
–DET1– STA. 13 + 40.42

BEGIN TEMPORARY PAVEMENT
–L_TEMP3– STA. 10 + 00.00

END TEMPORARY PAVEMENT
–L_TEMP3– STA. 15 + 65.85

–DET1– PT Sta. 11+14.18
–DET1– PC Sta. 12+73.89
PC Sta. 11+85.27
PT Sta. 13+61.49
PT Sta. 10+92.46
PC Sta. 14+82.10

1 STEPHEN MATTHEWS
DB 262 PG 568
DB 262 PG 571
DB 385 PG 321

2 ANNIE MCMILLIAN
DB 379 PG 117
PB 273 PG 4

3 CHRIST'S WAY COMMUNITY CHURCH, INC.
DB 1167 PG 434

4 GOSPEL LIGHTHOUSE MISSION BAPTIST CHURCH
DB 675 PG 545

5 GOSPEL LIGHTHOUSE BAPTIST CHURCH
DB 375 PG 456

6 THOMAS SPARKS
DB 781 PG 690

7 RAEFORD OIL COMPANY, INC.
DB 103 PG 448
DB 103 PG 449
DB 308 PG 837

BRITTANIE COLBORN
DB 1029 PG 758
PC 4 SLIDE 4-48 MAP 004

ARTHUR COLBORN
DB 244 PG 5
PC 4 SLIDE 4-48 MAP 004

WILMA ALSUP
DB 318 PG 37

BILLY WATKINS
DB 631 PG 299

TEMP. SPECIAL LAT. V DITCH. SEE DETAIL 'E' (TYP. BOTH SIDES)

SPEC. LAT. BASE DITCH SEE DETAIL 'C'

TEMPORARY PAVEMENT

-L_TMP3- CURVE DATA

PI Sta 10+46.44	PI Sta 12+74.83	PI Sta 15+24.13
Δ = 13° 14' 40.32" (RT)	Δ = 25° 14' 27.89" (LT)	Δ = 11° 59' 47.57" (RT)
D = 14° 19' 26.2"	D = 14° 19' 26.2"	D = 14° 19' 26.2"
L = 92.46'	L = 176.22'	L = 83.75'
T = 46.44'	T = 89.56'	T = 42.03'
R = 400.00'	R = 400.00'	R = 400.00'

-DET1- CURVE DATA

PI Sta 10+61.83	PI Sta 13+09.52
Δ = 54° 31' 07.1" (LT)	Δ = 50° 49' 39.3" (LT)
D = 47° 44' 47.3"	D = 76° 23' 39.7"
L = 114.18'	L = 66.53'
T = 61.83'	T = 35.63'
R = 120.00'	R = 75.00'

$$SYSTIME$$
$$USERNAME$$
$$FILENAME$$

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	EC-05/CONST.04A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS 8/17/99

$$$$$$SYSTIME$$$$$$
$$$$$$USERNAME$$$$$$

NAD 83 NA 2011 NC GRID

-DET1- PT Sta. 11+14.18

BEGIN TEMPORARY PAVEMENT
-DET1- STA. 10+00.00

-DET1- PC Sta. 12+73.89

END TEMPORARY PAVEMENT
-DET1- STA. 13+40.42

PC Sta. 11+85.27

PT Sta. 13+61.49

PT Sta. 10+92.46

PC Sta. 14+82.10

BEGIN TEMPORARY PAVEMENT
-L_TEMP3- STA. 10+00.00

END TEMPORARY PAVEMENT
-L_TEMP3- STA. 15+65.85

FINAL GRADE PLAN

TEMPORARY PAVEMENT

-L_TMP3- CURVE DATA

PI Sta 10+46.44	PI Sta 12+74.83	PI Sta 15+24.13
Δ = 13° 14' 40.32" (RT)	Δ = 25° 14' 27.89" (LT)	Δ = 11° 59' 47.57" (RT)
D = 14° 19' 26.2"	D = 14° 19' 26.2"	D = 14° 19' 26.2"
L = 92.46'	L = 176.22'	L = 83.75'
T = 46.44'	T = 89.56'	T = 42.03'
R = 400.00'	R = 400.00'	R = 400.00'

-DET1- CURVE DATA

PI Sta 10+61.83	PI Sta 13+09.52
Δ = 54° 31' 07.1" (LT)	Δ = 50° 49' 39.3" (LT)
D = 47° 44' 47.3"	D = 76° 23' 39.7"
L = 114.18'	L = 66.53'
T = 61.83'	T = 35.63'
R = 120.00'	R = 75.00'

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	EC-06/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

8/17/99

CLEARING AND GRUBBING PLAN

BEGIN TIP PROJECT W-5708A
-L1- POT STA. 10+38.00
BEGIN DITCH CONSTRUCTION, LT

END TIP PROJECT W-5708A
-L2- POT STA. 13+50.00

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.

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

PROPOSED ARTIFICIAL TURF OVER CONCRETE ISLAND COVER (SEE SPECIAL PROVISION)

NOTE: ALL RADII ON DRIVEWAYS ARE 10' UNLESS OTHERWISE LABELED.

-L1- CURVE DATA

PI Sta 13+98.13
Δ = 14° 31' 38.9" (LT)
D = 7° 52' 52.1"
L = 184.33'
T = 92.66'
R = 727.00'

-L2- CURVE DATA

PI Sta 10+77.20
Δ = 17° 20' 54.5" (RT)
D = 11° 19' 23.8"
L = 153.21'
T = 77.20'
R = 506.00'

PI Sta 12+08.23
Δ = 12° 24' 37.4" (LT)
D = 11° 19' 23.8"
L = 109.60'
T = 55.02'
R = 506.00'

-Y1- CURVE DATA

PI Sta 11+76.84
Δ = 18° 53' 02.6" (RT)
D = 11° 19' 23.8"
L = 166.77'
T = 84.15'
R = 506.00'

PI Sta 13+09.54
Δ = 11° 18' 10.1" (LT)
D = 11° 19' 23.8"
L = 99.82'
T = 50.07'
R = 506.00'

-Y2- CURVE DATA

PI Sta 10+86.21
Δ = 13° 31' 29.1" (LT)
D = 7° 52' 52.1"
L = 171.61'
T = 86.21'
R = 727.00'

PI Sta 12+92.94
Δ = 18° 57' 01.5" (RT)
D = 7° 52' 52.1"
L = 240.45'
T = 121.33'
R = 727.00'

-RAB- CURVE DATA

PI Sta 10+56.22
Δ = 85° 19' 48.9" (LT)
D = 93° 55' 39.0"
L = 90.85'
T = 56.22'
R = 61.00'

PI Sta 11+47.60
Δ = 85° 51' 59.0" (LT)
D = 93° 55' 39.0"
L = 91.42'
T = 56.75'
R = 61.00'

PI Sta 12+45.70
Δ = 92° 14' 44.0" (LT)
D = 93° 55' 39.0"
L = 98.21'
T = 63.44'
R = 61.00'

PI Sta 13+48.89
Δ = 96° 33' 28.0" (LT)
D = 93° 55' 39.0"
L = 102.80'
T = 68.41'
R = 61.00'

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

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	EC-07/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

8/17/99

BEGIN TIP PROJECT W-5708A
-L1- POT STA. 10+38.00
BEGIN DITCH CONSTRUCTION, LT

NAD 83 NA 2011 NC GRID

-Y1- POT Sta. 10+00.00

BRITTANIE COLBORN
DB 1029 PG 758
PC 4 SLIDE 4-48 MAP 004

BEGIN CONSTRUCTION
-Y1- POT Sta. 10+50.00

ARTHUR COLBORN
DB 244 PG 5
PC 4 SLIDE 4-48 MAP 004

-Y1- PC Sta. 10+92.69

ANNIE MCMILLIAN
DB 379 PG 117
PB 273 PG 4

PROP. PAVED DRIVEWAY WEDGE OVER TEMP. PAVEMENT TO MATCH PROP. ROAD EOP

SPEC. LAT. V DITCH SEE DETAIL 'A'

-Y1- PRC Sta. 12+59.47

TEMP. PAVEMENT REMOVAL

-Y1- PT Sta. 13+59.28=
-RAB- PC Sta. 12+80.47

-L1- PT Sta. 14+89.80=
-RAB- PC Sta. 10+00.00=
-RAB- PT Sta. 13+83.27

STEPHEN MATTHEWS
DB 262 PG 568
DB 262 PG 571
DB 385 PG 321

-L2- PC Sta. 10+00.00=
-RAB- PCC Sta. 11+82.26

RAEFORD OIL COMPANY, INC.
DB 103 PG 448
DB 103 PG 449
DB 308 PG 837

WILMA ALSUP
DB 318 PG 37

-L2- PRC Sta. 11+53.21

-L1- POT Sta. 10+00.00

STEPHEN MATTHEWS
DB 262 PG 568
DB 262 PG 571
DB 385 PG 321

PROP. PAVED DRIVEWAY WEDGE OVER TEMP. PAVEMENT TO MATCH PROP. ROAD EOP

8 TONS CL B RIP RAP
10 SY GEOTEXTILE

SPEC. LAT. BASE DITCH SEE DETAIL 'C'

GRADE TO DRAIN

REMOVE

RETAIN

PUE

TEMP. PAVEMENT REMOVAL

-L1- PC Sta. 13+05.47

BEGIN PAVING
-L1- POT Sta. 11+50.00

-Y2- PC Sta. 10+00.00=
-RAB- PCC Sta. 10+90.85

2 TONS CL B RIP RAP
7 SY GEOTEXTILE

BILLY WATKINS
DB 631PG 299

I S MASONRY CHURCH

CHRIST'S WAY COMMUNITY CHURCH, INC.
DB 1167 PG 434

-Y2- PRC Sta. 11+71.61

GOSPEL LIGHTHOUSE MISSION BAPTIST CHURCH
DB 675 PG 545

GOSPEL LIGHTHOUSE BAPTIST CHURCH
DB 375 PG 456

THOMAS SPARKS
DB 781PG 690

-Y2- PT Sta. 14+12.06

END CONSTRUCTION
-Y2- POT Sta. 14+65.00

-Y2- POT Sta. 15+30.29

-L2- POT Sta. 15+46.57

-L2- PT Sta. 12+62.81

HAY FIELD

END TIP PROJECT W-5708A
-L2- POT STA. 13+50.00

FINAL GRADE PLAN

-L1- CURVE DATA

PI Sta 13+98.13
△ = 14° 31' 38.9" (LT)
D = 7° 52' 52.1"
L = 184.33'
T = 92.66'
R = 727.00'

-L2- CURVE DATA

PI Sta 10+77.20
△ = 17° 20' 54.5" (RT)
D = 11° 19' 23.8"
L = 153.21'
T = 77.20'
R = 506.00'

PI Sta 12+08.23
△ = 12° 24' 37.4" (LT)
D = 11° 19' 23.8"
L = 109.60'
T = 55.02'
R = 506.00'

-Y1- CURVE DATA

PI Sta 11+76.84
△ = 18° 53' 02.6" (RT)
D = 11° 19' 23.8"
L = 166.77'
T = 84.15'
R = 506.00'

PI Sta 13+09.54
△ = 11° 18' 10.1" (LT)
D = 11° 19' 23.8"
L = 99.82'
T = 50.07'
R = 506.00'

-Y2- CURVE DATA

PI Sta 10+86.21
△ = 13° 31' 29.1" (LT)
D = 7° 52' 52.1"
L = 171.61'
T = 86.21'
R = 727.00'

PI Sta 12+92.94
△ = 18° 57' 01.5" (RT)
D = 7° 52' 52.1"
L = 240.45'
T = 121.33'
R = 727.00'

-RAB- CURVE DATA

PI Sta 10+56.22
△ = 85° 19' 48.9" (LT)
D = 93° 55' 39.0"
L = 90.85'
T = 56.22'
R = 61.00'

PI Sta 11+47.60
△ = 85° 51' 59.0" (LT)
D = 93° 55' 39.0"
L = 91.42'
T = 56.75'
R = 61.00'

PI Sta 12+45.70
△ = 92° 14' 44.0" (LT)
D = 93° 55' 39.0"
L = 98.21'
T = 63.44'
R = 61.00'

PI Sta 13+48.89
△ = 96° 33' 28.0" (LT)
D = 93° 55' 39.0"
L = 102.80'
T = 68.41'
R = 61.00'

PROPOSED ARTIFICIAL TURF OVER CONCRETE ISLAND COVER (SEE SPECIAL PROVISION)

NOTE:
ALL RADII ON DRIVEWAYS ARE 10' UNLESS OTHERWISE LABELED.

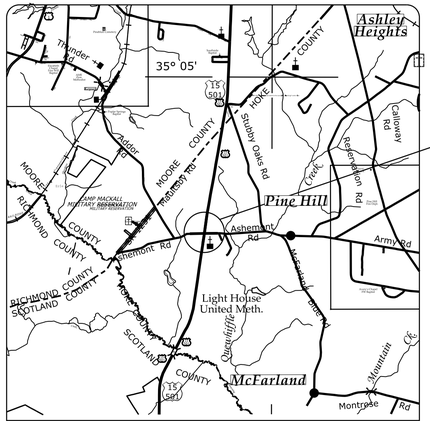
$$$$SYSTIME$$$$
$$$$DGN$$$$
$$$$FILENAME$$$$

09/08/99

TIP PROJECT: W–5708A

WBS 44854.3.1

T.I.P. NO.	SHEET NO.
W–5708A	UC–1



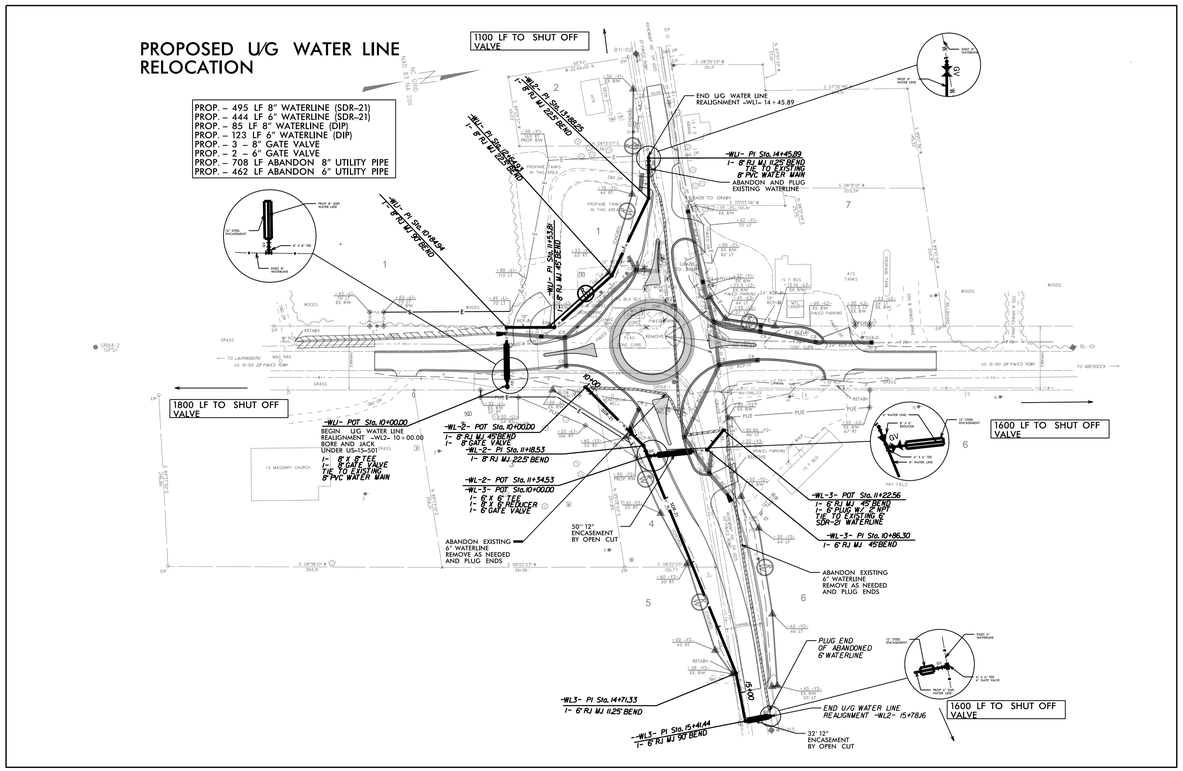
VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
HOKE COUNTY

LOCATION: INTERSECTION OF US 15–501 AND SR 1225 (ASHEMONT ROAD) SOUTH OF ABERDEEN

TYPE OF WORK: WATERLINE RELOCATIONS



UC–4

DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC–1	TITLE SHEET
UC–2	UTILITY SYMBOLOGY
UC–3	NOTES
UC–3A	DETAILS
UC–4	UTILITY CONSTRUCTION SHEETS
UC–5	PROFILE SHEETS

WATER AND SEWER OWNERS ON PROJECT

(A) WATER (HOKE COUNTY)

PREPARED IN THE OFFICE OF
DIVISION DESIGN /CONSTRUCT UNIT
902 N. SANDHILLS BLVD.
ABERDEEN, NC 28327
910–944–2344

GREG S. DAVIS, PE DIVISION DESIGN ENGINEER

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

DocuSigned by: Greg S. Davis 3/15/2019
33D47B5FD78F4A8...

DIVISION OF HIGHWAYS
UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH NC 27699–1555
PHONE (919) 707–6690
FAX (919) 250–4151

UTILITIES REGIONAL ENGINEER
UTILITIES ENGINEER
UTILITIES AREA COORDINATOR
UTILITIES COORDINATOR

15-MAR-2019 16:08
Z:\rdy\hoke\us15-501@sr_1225\ashemont_rd\754\Plans\Roadway\Proj\psh_utlW5708A_UC_tsh.dgn
gsdavis ATT DIV8-3267HL

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	UC-2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

- Water Line (Sized as Shown) — 12" WL
- 11¼ Degree Bend
- 22½ Degree Bend
- 45 Degree Bend
- 90 Degree Bend
- Plug
- Tee
- Cross
- Reducer
- Gate Valve — GV
- Butterfly Valve — BV
- Tapping Valve — TGV
- Line Stop — LS
- Line Stop with Bypass — LS/BP
- Blow Off — BO
- Fire Hydrant — PFH
- Relocate Fire Hydrant — RFH
- Remove Fire Hydrant — REM FH
- Water Meter — PWM
- Relocate Water Meter — RWM
- Remove Water Meter — REM WM
- Water Pump Station — PS(W)
- RPZ Backflow Preventer — PRPZ
- DCV Backflow Preventer — PBFP
- Relocate RPZ Backflow Preventer — RRPZ
- Relocate DCV Backflow Preventer — RBFP

PROPOSED SEWER SYMBOLS

- Gravity Sewer Line (Sized as Shown) — 12" SS
- Force Main Sewer Line (Sized as Shown) — 12" FSS
- Manhole (Sized per Note)
- Sewer Pump Station — PS(SS)

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

- Power Pole
- Telephone Pole
- Joint Use Pole
- Telephone Pedestal — TEL_PED
- Utility Line by Others (Type as Shown) — PROP O/H POW LINES
- Trenchless Installation — 12" TL INSTALL
- Encasement by Open Cut — 24" ENCAS BY OC
- Encasement — 24" ENCASEMENT
- Thrust Block
- Air Release Valve — AR
- Utility Vault — UV
- Concrete Pier — CP
- Steel Pier — SP
- Plan Note — NOTE
- Pay Item Note — PAY ITEM

EXISTING UTILITIES SYMBOLS

- Power Pole
- Telephone Pole
- Joint Use Pole
- Utility Pole
- Utility Pole with Base
- H-Frame Pole
- Power Transmission Line Tower
- Water Manhole
- Power Manhole
- Telephone Manhole
- Sanitary Sewer Manhole
- Hand Hole for Cable
- Power Transformer
- Telephone Pedestal — T
- CATV Pedestal — C
- Gas Valve
- Gas Meter
- Located Miscellaneous Utility Object
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.
- *Underground Power Line
- *Underground Telephone Cable
- *Underground Telephone Conduit
- *Underground Fiber Optics Telephone Cable
- *Underground TV Cable
- *Underground Fiber Optics TV Cable
- *Underground Gas Pipeline
- Aboveground Gas Pipeline — A/G Gas
- *Underground Water Line
- Aboveground Water Line — A/G Water
- *Underground Gravity Sanitary Sewer Line — SS
- Aboveground Gravity Sanitary Sewer Line — A/G Sanitary Sewer
- *Underground SS Forced Main Line
- Underground Unknown Utility Line
- SUE Test Hole
- Water Meter
- Water Valve
- Fire Hydrant
- Sanitary Sewer Cleanout

*For Existing Utilities

- Utility Line Drawn from Record (Type as Shown)
- Designated Utility Line (Type as Shown)

REV: 2/1/2012

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5/14/99

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.

2. THE EXISTING UTILITIES BELONG TO HOKE COUNTY REGIONAL WATER SYSTEM .

3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.

4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.

5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.

7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

PROJECT SPECIFIC NOTES:

1. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.

LIST OF STANDARD DRAWINGS

1515.01 WATER METER

1515.02 FIRE HYDRANT

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	UC-3
DESIGNED BY: GSD	
DRAWN BY: MRT	
CHECKED BY: GSD	
APPROVED BY: GSD	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S DAVIS

DocuSigned by: Greg S. Davis 11/15/2017

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED

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PROJECT TYPICAL DETAILS

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	UC-3A

DESIGNED BY: GSD
DRAWN BY: MRT
CHECKED BY: GSD
APPROVED BY: GSD
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

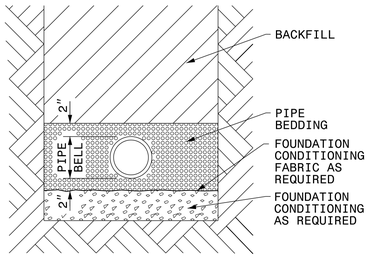
DocuSigned by: Greg S. Davis 11/15/2017

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED

TRENCH DETAIL



PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

MAXIMUM TRENCH WIDTH AT TOP OF PIPE

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		

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$$$$DATE 304810

PROPOSED U/G WATER LINE RELOCATION

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	UC-4
DESIGNED BY: GSD	
DRAWN BY: MRT	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
Division Design Construct (DDC) Division of Highways, Division 8	

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S DAVIS

Docusigned by: Greg S. Davis 3/15/2019

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83 NA 2011 NC GRID

1100 LF TO SHUT OFF VALVE

PROP. – 495 LF 8" WATERLINE (SDR–21)
PROP. – 444 LF 6" WATERLINE (SDR–21)
PROP. – 85 LF 8" WATERLINE (DIP)
PROP. – 123 LF 6" WATERLINE (DIP)
PROP. – 3 – 8" GATE VALVE
PROP. – 2 – 6" GATE VALVE
PROP. – 708 LF ABANDON 8" UTILITY PIPE
PROP. – 462 LF ABANDON 6" UTILITY PIPE

PROP. 8" (DIP) WATER LINE
16" STEEL ENCASEMENT
8" X 8" TEE
EXIST. 8" WATERLINE

-WL1- PI Sta. 10+84.94
1- 8" RJ MJ 90° BEND

-WL1- PI Sta. 11+53.81
1- 8" RJ MJ 45° BEND

-WL1- PI Sta. 12+64.93
1- 8" RJ MJ 22.5° BEND

-WL2- PI Sta. 13+88.25
1- 8" RJ MJ 22.5° BEND

END U/G WATER LINE REALIGNMENT -WL1- 14+45.89

-WL1- PI Sta. 14+45.89
1- 8" RJ MJ 11.25° BEND
TIE TO EXISTING 8" PVC WATER MAIN

ABANDON AND PLUG EXISTING WATERLINE

1800 LF TO SHUT OFF VALVE

-WL1- POT Sta. 10+00.00
BEGIN U/G WATER LINE REALIGNMENT -WL2- 10+00.00
BORE AND JACK UNDER US-15-501
1- 8" X 8" TEE
1- 8" GATE VALVE
TIE TO EXISTING 8" PVC WATER MAIN

-WL-2- POT Sta. 10+00.00
1- 8" RJ MJ 45° BEND
1- 8" GATE VALVE

-WL-2- PI Sta. 11+18.53
1- 8" RJ MJ 22.5° BEND

-WL-2- POT Sta. 11+34.53
-WL-3- POT Sta. 10+00.00
1- 6" X 6" TEE
1- 8" X 6" REDUCER
1- 6" GATE VALVE

ABANDON EXISTING 6" WATERLINE REMOVE AS NEEDED AND PLUG ENDS

50'' 12" ENCASEMENT BY OPEN CUT

-WL3- PI Sta. 14+71.33
1- 6" RJ MJ 11.25° BEND

--WL3- PI Sta. 15+41.44
1- 6" RJ MJ 90° BEND

32' 12" ENCASEMENT BY OPEN CUT

-WL-3- POT Sta. 11+22.56
1- 6" RJ MJ 45° BEND
1- 6" PLUG W/ 2" NPT
TIE TO EXISTING 6" SDR-21 WATERLINE

-WL-3- PI Sta. 10+86.30
1- 6" RJ MJ 45° BEND

ABANDON EXISTING 6" WATERLINE REMOVE AS NEEDED AND PLUG ENDS

PLUG END OF ABANDONED 6" WATERLINE

END U/G WATER LINE REALIGNMENT -WL2- 15+78.16

1600 LF TO SHUT OFF VALVE

1600 LF TO SHUT OFF VALVE

6" WATER LINE
8" X 6" REDUCER
12" STEEL ENCASEMENT
6" X 6" TEE
8" WATER LINE

12" STEEL ENCASEMENT
EXIST. 6" WATERLINE
6" X 6" TEE
6" GATE VALVE
PROP. 6" (DIP) WATER LINE

EXIST. 8" WATERLINE
PROP. 8" WATER LINE

50' 0 50' 100'

REVISIONS

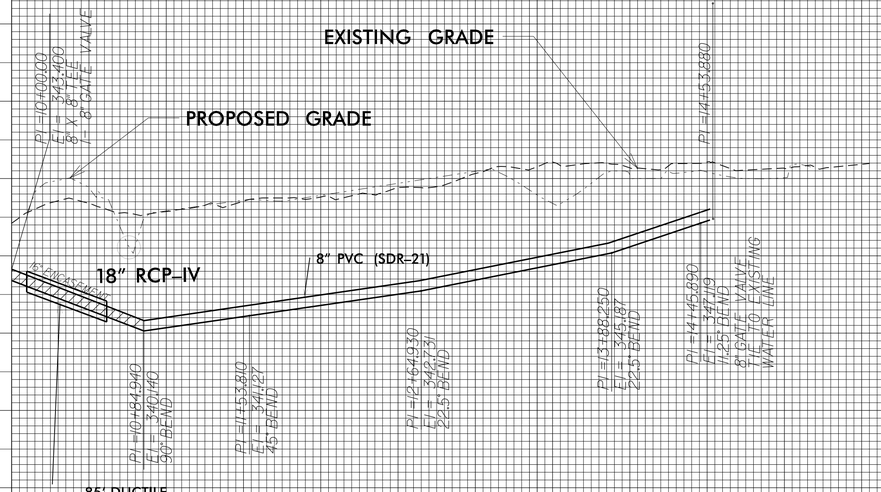
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Greg S. Davis
GSD
DIVISION 8 - DIVISION OF HIGHWAYS
Roadway

5/14/99

WL–1



NOTE:

BENDS NOTED ON PROFILE
REFER TO HORIZONTAL BENDS
ON UC–4

PROJECT REFERENCE NO.	SHEET NO.
W5708A	UC–5

DESIGNED BY: GSD
DRAWN BY: MRT
CHECKED BY:
APPROVED BY:
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

NORTH CAROLINA PROFESSIONAL SEAL 26930 ENGINEER GREG S. DAVIS

Docusigned by: Greg S. Davis 3/15/2019

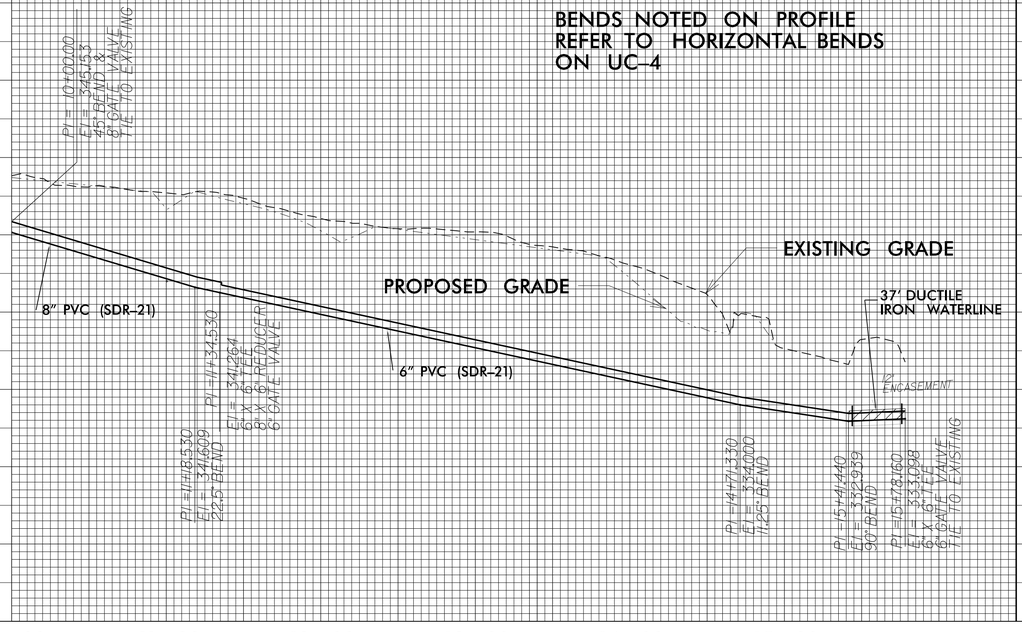
UTILITIES ENGINEERING SEC.
PHONE: (919)707-6690
FAX: (919)250-4151

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

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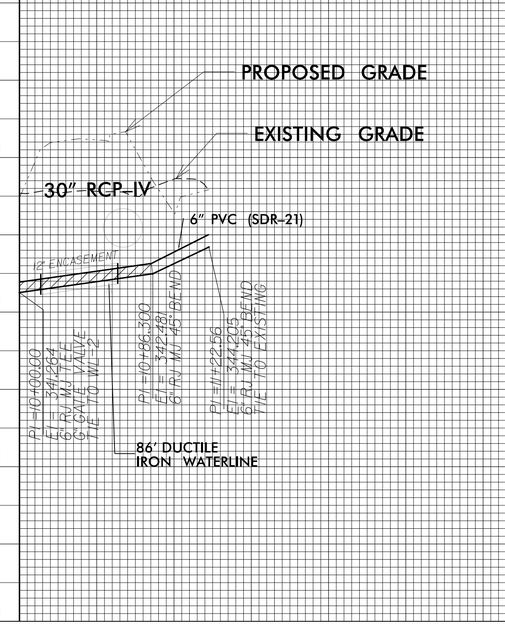
WL–2



NOTE:

BENDS NOTED ON PROFILE
REFER TO HORIZONTAL BENDS
ON UC–4

WL–3



NOTE:

BENDS NOTED ON PROFILE
REFER TO HORIZONTAL BENDS
ON UC–4

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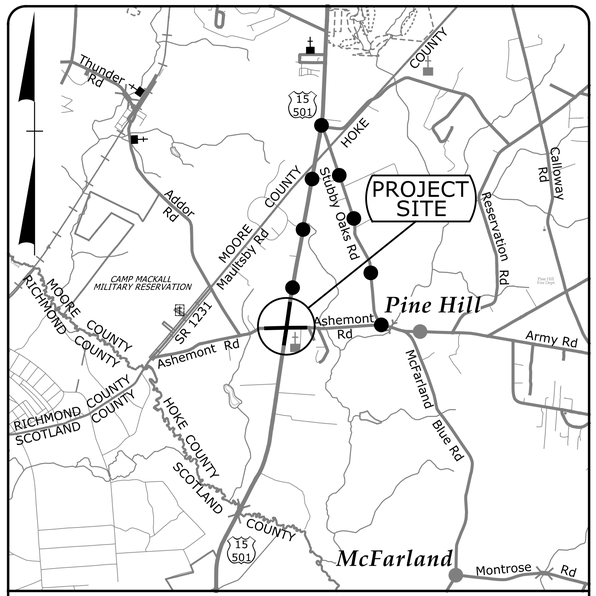
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09/08/99

TIP PROJECT: W-5708A

CONTRACT:

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



VICINITY MAP
NOT TO SCALE

DETOUR

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
HOKE COUNTY

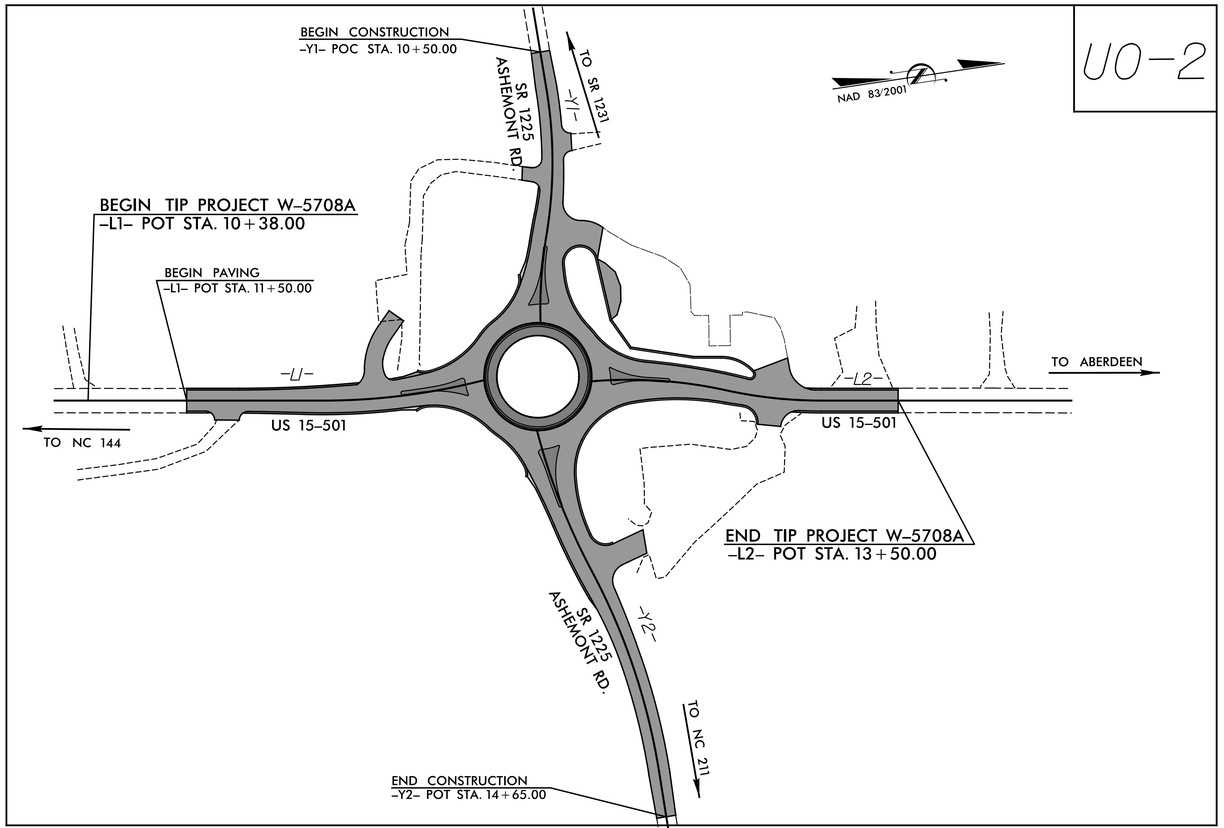
T.I.P. NO.	SHEET NO.
W-5708A	UO-1

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

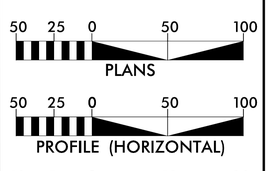


LOCATION: INTERSECTION OF US 15-501 AND SR 1225 (ASHEMONT ROAD) SOUTH OF ABERDEEN

TYPE OF WORK: UTILITIES BY OTHERS



GRAPHIC SCALES



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-2	UO PLAN SHEET

UTILITY OWNERS WITH CONFLICTS

(A) LREMC – POWER DISTRIBUTION
(B) NETWORK ENTERPRISE CENTER – COMMUNICATIONS
(C) TWC/SPECTRUM – COMMUNICATIONS
(D) WINDSTREAM – COMMUNICATIONS

Prepared for the North Carolina Department of Transportation In the Office of:

vhb

Venture I
940 Main Campus Drive, Suite 500
Raleigh, NC 27606
NC License No. C-3705

DIVISION OF HIGHWAYS
DIVISION 8

JAMES YOW	*DIVISION UTILITY COORDINATOR*
GREG DAVIS, PE	*DIVISION DESIGN ENGINEER*
JOHN OLINGER, PE	*DIVISION CONSTRUCTION ENGINEER*
BRANDON JONES, PE	*DIVISION ENGINEER*

10/22/2018
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localuser

PROJECT REFERENCE NO.	SHEET NO.
W-5708A	U0-2

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

WINDSTREAM NOTES:
-ALL WINDSTREAM BORES TO BE AT A MIN. OF 8' DEEP TO AVOID CONFLICTS WITH PROP. WATER & NEC LINES.
-TO ABANDON ALL EXISTING FACILITIES WITHIN NCDOT R/W FROM -Y1- STA. 10+25 TO -Y2- STA.15+00 AND FROM -L1- STA. 10+00 TO -L2- STA. 14+00

vhb
Venture I
940 Main Campus Drive, Suite 500
Raleigh, NC 27606
NC License No. C-3705

NAD 83/NA 2011

WINDSTREAM-RETAIN ALL COPPER CABLES HEADING WEST FROM -Y1- STA. 10+25

WINDSTREAM-BORE 24 FIBER CABLE AND 200 PAIR COPPER CABLE IN CONDUITS

WINDSTREAM PROP. PED.

WINDSTREAM-REPLACE BURIED 24 FIBER TO PED. 5001/F267 +/- 2,875' ON ADDOR RD.

WINDSTREAM-TIE TO EXISTING COPPER FACILITIES

WINDSTREAM-EXISTING PED 5001/276

BEGIN CONSTRUCTION
-Y1- POT Sta. 10+50.00

BRITTANIE COLBORN
DB 1029 PG 758
PC 4 SLIDE 4-48 MAP 004

ARTHUR COLBORN
DB 244 PG 5
PC 4 SLIDE 4-48 MAP 004

ANNIE MCMILLIAN
DB 379 PG 117
PB 273 PG 4

NEC-EXISTING FIBER LINES TO BE ABANDONED

SPECTRUM-TIE POINT, DIG AND RETRIEVE FIBER, SET HH BACK TO EXIST. R/W, SPLICE 48 BURNS

WINDSTREAM-NEW SVC LINE TO GAS STATION

SPECTRUM-EXISTING FIBER LINES TO BE ABANDONED

WINDSTREAM-REMOVE EXISTING SVC LINE

SPECTRUM-BORE 6' DEEP AT R/W TO CLEAR CB

SPECTRUM-BORE PIT PLACE HH AND 100' SLACK FIBER

BEGIN TIP PROJECT W-5708A
-L1- POT STA. 10+38.00
BEGIN DITCH CONSTRUCTION, LT

NEC-INSTALL 4X4X4 HAND HOLE

LREMC-OHP

LREMC-POLES TO BE REMOVED

NEC-DIRECTIONAL BORE 2X NEW FIBER LINES, 2" HDPE DUCT, 7' MIN. TO 10' MAX. DEPTH

STEPHEN MATTHEWS
DB 262 PG 568
DB 262 PG 571
DB 385 PG 321

RAEFORD OIL COMPANY, INC.
DB 103 PG 448
DB 103 PG 449
DB 308 PG 837

SPECTRUM-BORE 6' DEEP AT R/W TO CLEAR CB

LREMC-GUY AND ANCHORS

SPECTRUM-PROPOSED NEW FIBER LINES

WILMA ALSUP
DB 318 PG 37

WINDSTREAM-BORE 24 FIBER CABLE AND 200 PAIR COPPER CABLE IN CONDUITS

WINDSTREAM-PLACE 24 FIBER CABLE +/- 10,500' TO PED. 5001/F100 AT DROWNING CREEK. PLACE 100 PAIR COPPER CABLE TO PED. 5001/288

BEGIN PAVING
-L1- POT Sta. 11+50.00

LREMC-OHP

WINDSTREAM-EQUIPMENT ON EASEMENT TO REMAIN

NEC-INSTALL 4X4X4 HAND HOLE

LREMC-PROP. POLE

WINDSTREAM PROP. PED.

WINDSTREAM PROP. PED

LREMC-PROP. POLE

WINDSTREAM-REMOVE EXISTING SVC LINE

WINDSTREAM PROP. SVC LINE

LREMC-OHP

LREMC-POLE TO BE REMOVED

WINDSTREAM-BORE 100 PAIR COPPER CABLE IN 3" DUCT

SPECTRUM - 240' TO EXIST. HH, SPLICE

SPECTRUM-EXISTING FIBER LINES TO BE ABANDONED

WINDSTREAM-EXPOSE EXISTING CABLES, MOVE CLOSE TO R/W AND PLACE IN NEW PED., THEN RETAIN EXISTING CABLES HEADING NORTH

WINDSTREAM PROP. PED.

WINDSTREAM-PROP. 100 PAIR BURIED COPPER CABLE +/- 200' TRENCH 36" DEEP

BILLY WATKINS
DB 631 PG 299

CHRIST'S WAY COMMUNITY CHURCH, INC.
DB 1167 PG 434

NEC-EXISTING FIBER LINES TO BE ABANDONED

WINDSTREAM-PROP. BORE PLACE 24 FIBER CABLE AND 600 PAIR COPPER CABLE

NEC-EXISTING FIBER OPTIC LINE TO BE UNCOVERED AND MOVE BACK 1' FROM ROW AND BURY AT A MIN. OF 5'-7'.

NEC-EXISTING FIBER LINE, NO ACTION REQUIRED FOR NOW. (TO BE UNCOVERED AND MOVED BACK 1' FROM ROW, BURY 3'-7' AND INSTALL 4X4X4 HAND HOLE ADJACENT TO +65 -Y2- ROW MARKER) IF NECESSARY.

GOSPEL LIGHTHOUSE MISSION BAPTIST CHURCH
DB 675 PG 545

GOSPEL LIGHTHOUSE BAPTIST CHURCH
DB 375 PG 456

THOMAS SPARKS
DB 781 PG 690

NEC-DIRECT BURY 2X NEW FIBER LINES, 3' MIN DEPTH, 2' FROM R/W

WINDSTREAM PROP. PED.

WINDSTREAM-PROP. BORE PLACE 24 FIBER CABLE AND 600 PAIR COPPER CABLE

END CONSTRUCTION
-Y2- POT Sta. 14+65.00

NEC-INSTALL 4X4X4 HAND HOLE

WINDSTREAM-TIE TO EXISTING COPPER CABLES

WINDSTREAM-RETAIN COPPER CABLES HEADING EAST

WINDSTREAM-REPLACE 24 FIBER CABLE +/- 5,000' TO PED. 5001/F49 AT STUBBY OAKS RD.

END TIP PROJECT W-5708A
-L2- POT STA. 13+50.00

REVISIONS

8/17/99

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5/9/06

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

PROJ. REFERENCE NO.	SHEET NO.
W-5708A	X-1A

Approximate quantities only. Unclassified excavation, borrow excavation, fine grading, removal of existing asphalt pavement and breaking of existing asphalt pavement will be paid for at the lump sum price for "Grading".

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

Station L1	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
11+50.00	0	0
12+00.00	40	0
12+50.00	51	0
13+00.00	58	2
13+50.00	31	9
14+00.00	0	38
14+50.00	0	173
14+70.57	0	145

Station L2	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+19.18	0	0
10+50.00	14	79
11+00.00	56	58
11+50.00	67	50
12+00.00	35	27
12+50.00	2	7
13+00.00	3	8
13+50.00	4	1

Station Y1	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+50.00	0	0
11+00.00	15	0
11+50.00	43	0
12+00.00	33	4
12+50.00	44	6
13+00.00.	72	55
13+40.25	27	154

Station Y2	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+19.60	0	0
10+50.00	19	325
11+00.00	69	389
11+50.00	43	290
12+00.00	38	213
12+50.00	76	153
13+00.00	101	80
13+50.00	106	46
14+00.00	83	28
14+50.00	42	13
14+65.00	2	1

Station RAB	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+00.00	0	0
10+50.00	0	519
11+00.00	0	497
11+50.00	12	414
12+00.00	12	360
12+50.00	0	337
13+00.00	0	356
13+50.00	0	425
13+83.27	0	321

Station L_TMP3	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+00.00	0	0
10+50.00	4	0
11+00.00	7	0
11+50.00	12	4
12+00.00	17	4
12+50.00	25	5
13+00.00	32	5
13+50.00	58	7
14+00.00	54	12
14+50.00	23	10
15+00.00	13	6
15+50.00	5	0

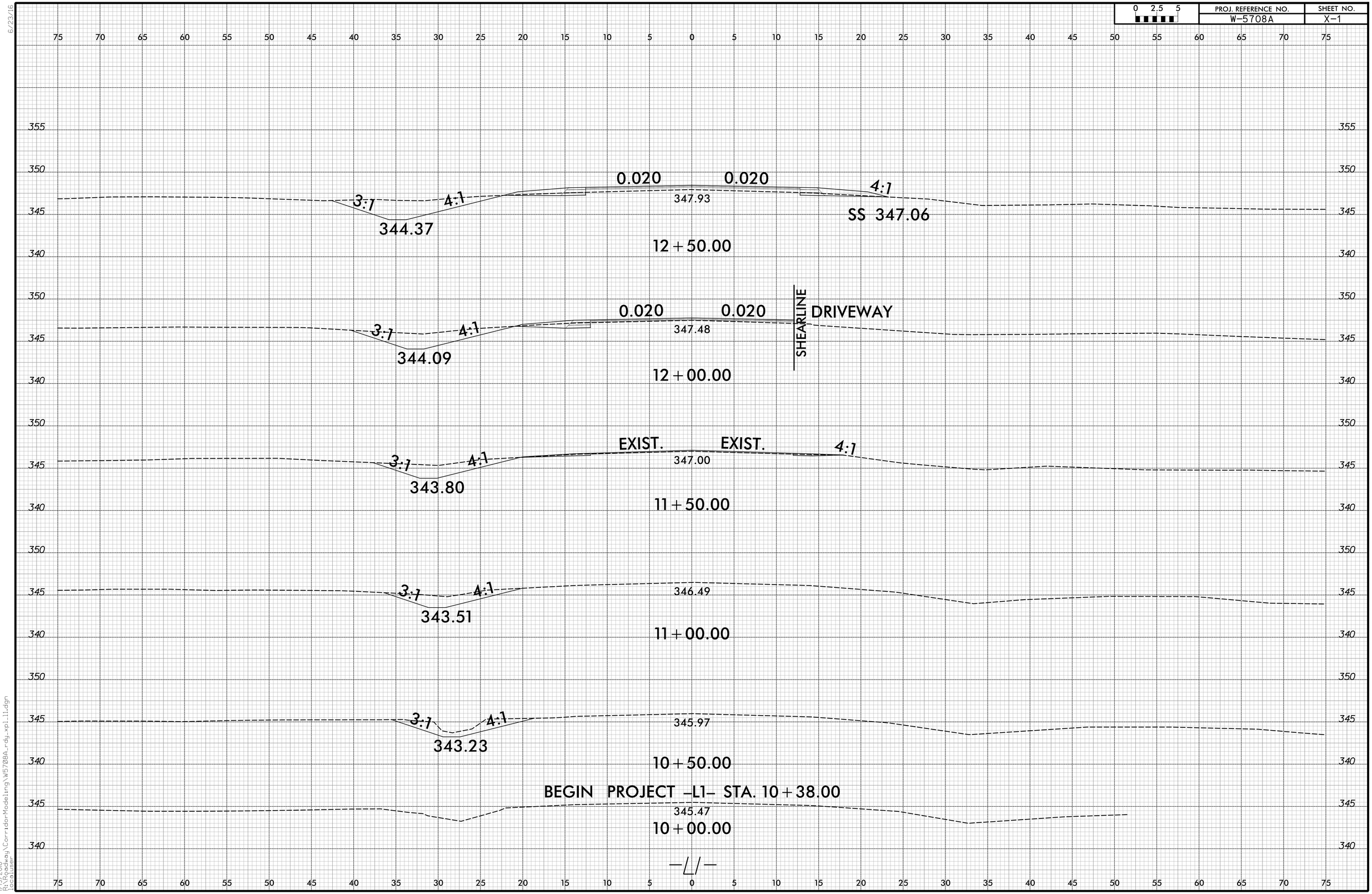
Station DET1	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
10+00.00	0	0
10+25.00	6	0
10+50.00	6	1
11+00.00	26	1
11+50.00	24	2
12+00.00	21	3
12+50.00	28	1
13+00.00	19	4
13+25.00	4	3
13+40.42	5	1

INDEX OF SHEETS

LINE	STATIONS	SHEETS
-L1-	11+50.00 TO 14+70.57	X-1 THRU X-2
-L2-	10+19.18 TO 13+50.00	X-3 THRU X-4
-Y1-	10+50.00 TO 13+40.25	X-5 THRU X-6
-Y2-	10+19.60 TO 14+65.00	X-7 THRU X-9
-RAB-	10+00.00 TO 13+83.27	X-10 THRU X-11
-L_TMP3-	10+00.00 TO 15+50.00	X-12 THRU X-13
-DET1-	10+00.00 TO 13+40.42	X-14 THRU X-15

V8i 2018
W5708_Grady_X-1A.dgn
jpaulsen

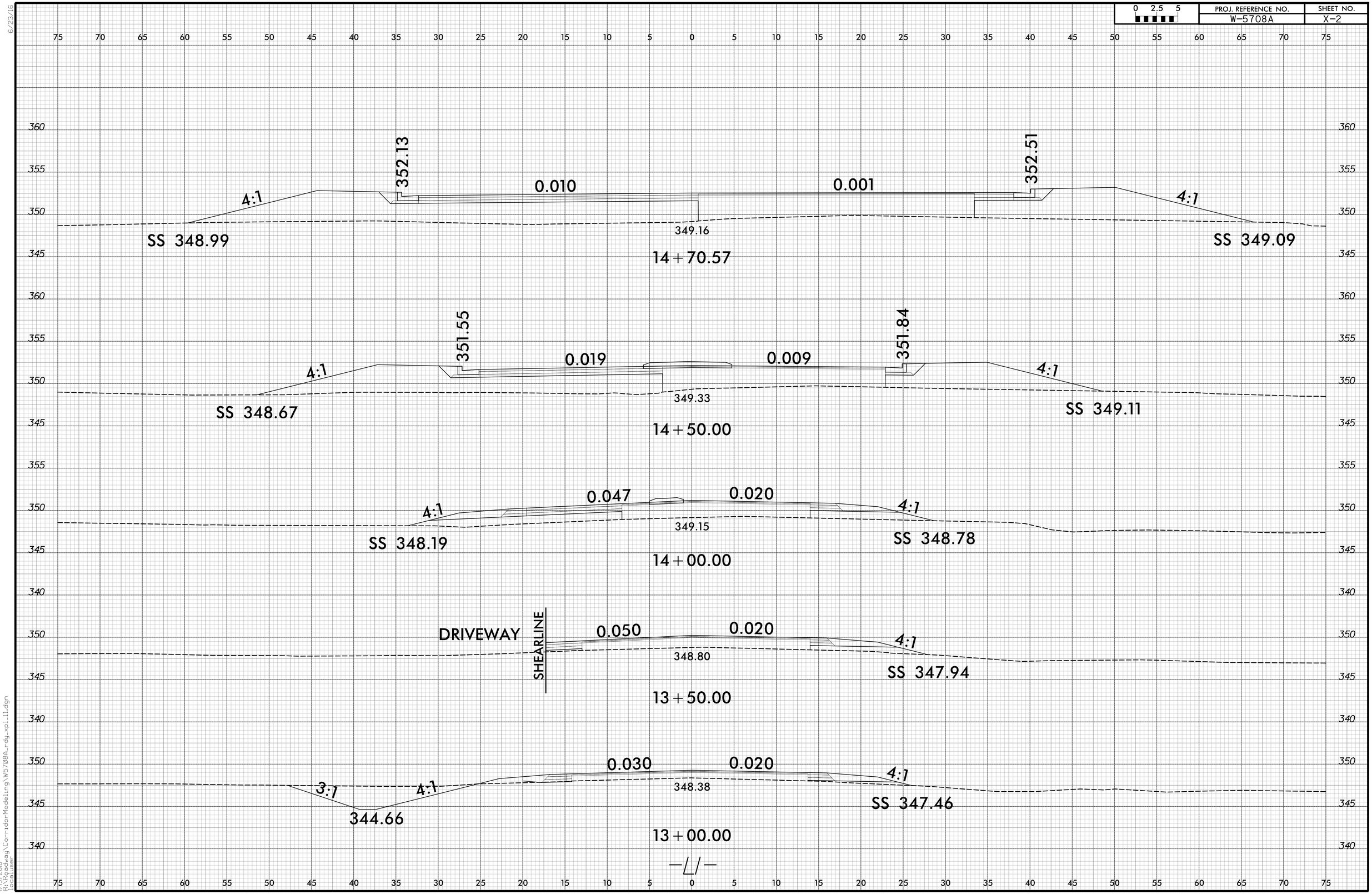
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-1



1/19/2018
R:\Roadway\Corridor Modeling\W5708A_rdy_xpl_11.dgn
tcobuser

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-2



1/19/2018
R:\Roadway\CorridorModeling\W5708A_rdy_xpl_11.dgn
locallUser

DRIVEWAY
SHEARLINE
0.060
0.052
352.12
SHEARLINE
DRIVEWAY
12+00.00

351.35
0.038
0.024
352.49
351.54
4:1
3:1
FILL TEMP. DITCH
348.78
11+50.00

351.39
0.020
0.004
351.72
351.00
4:1
3:1
FILL TEMP. DITCH
348.28
11+00.00

351.55
0.020
0.020
351.50
351.03
4:1
3:1
347.78
MATCH LINE
10+50.00

MATCH LINE
FILL TEMP. DITCH
345

4:1
352.22
0.006
0.003
352.38
350.64
4:1
SS 350.59
SS 350.22
10+19.18

-L2-

6/23/16
1/19/2018
R:\Roadway\Corridor Modeling\W5708A_rdy_xpl_12.dgn
locallusr

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-4

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

360 355 350 345

355.33

14 + 00.00

END PROJECT –L2– STA. 13 + 50.00

EXIST. EXIST.

354.27

13 + 50.00

4:1 0.020 0.013 4:1

353.40

SS 352.96 SS 352.32

13 + 00.00

DRIVEWAY SHEARLINE 0.047 0.041 4:1

352.75

SS 350.53

12 + 50.00

–L2–

1/19/2018
R:\Roadway\CorridorModeling\W5708A_rdy_xpl_12.dgn
locUser

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-5

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

360 355 350 345

4:1 0.060 0.060 SHEARLINE DRIVEWAY

SS 351.68 351.23

12+00.00

360 355 350

DRIVEWAY SHEARLINE 0.046 0.060 SS 351.17

351.87 4:1 3:1

348.94

11+50.00

360 355 350

4:1 0.018 0.044 SS 350.56

SS 352.25 352.29 4:1 3:1

349.29

11+00.00

360 355 350

EXIST. EXIST.

352.63

10+50.00

BEGIN CONSTRUCTION –Y1– STA. 10+50.00

355 350

352.94

10+00.00

–Y1–

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

1/9/2018
R:\Roadway\CorridorModeling\W5708A_rdy_xpl_gi.dgn
locabuser

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-6

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

360 / 355 / 350 / 345

PARKING
0.02

350.43

351.96

0.004

0.003

351.98

4:1

350.40

SS 349.73

13+40.25

PARKING
0.02

349.98

352.02

0.015

0.025

350.61

4:1

3:1

SS 350.34

347.89

13+00.00

DRIVEWAY

SHEARLINE

0.043

0.053

350.74

4:1

3:1

SS 350.75

348.24

12+50.00

1/19/2018
R:\Roadway\CorridorModeling\W5708A_rdy_xpl_yl.dgn
locallUser

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-7

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

355 350 345 340 360

DRIVEWAY

SHEARLINE

0.021 0.021 4:1 4:1 3:1

346.81

344.90

11+50.00

TIE TO EXISTING
AND FILL EXISTING DITCH

50:1 5.51:1

346.54

351.09

0.006 0.020 4:1 3:1

347.90

345.90

11+00.00

TIE TO EXISTING
AND FILL EXISTING DITCH

50:1 6.61:1

347.28

351.55

0.020 0.020 4:1 3:1

348.50

346.90

10+50.00

4:1

SS 350.42

352.61

0.003 0.008

352.54

4:1

SS 348.55

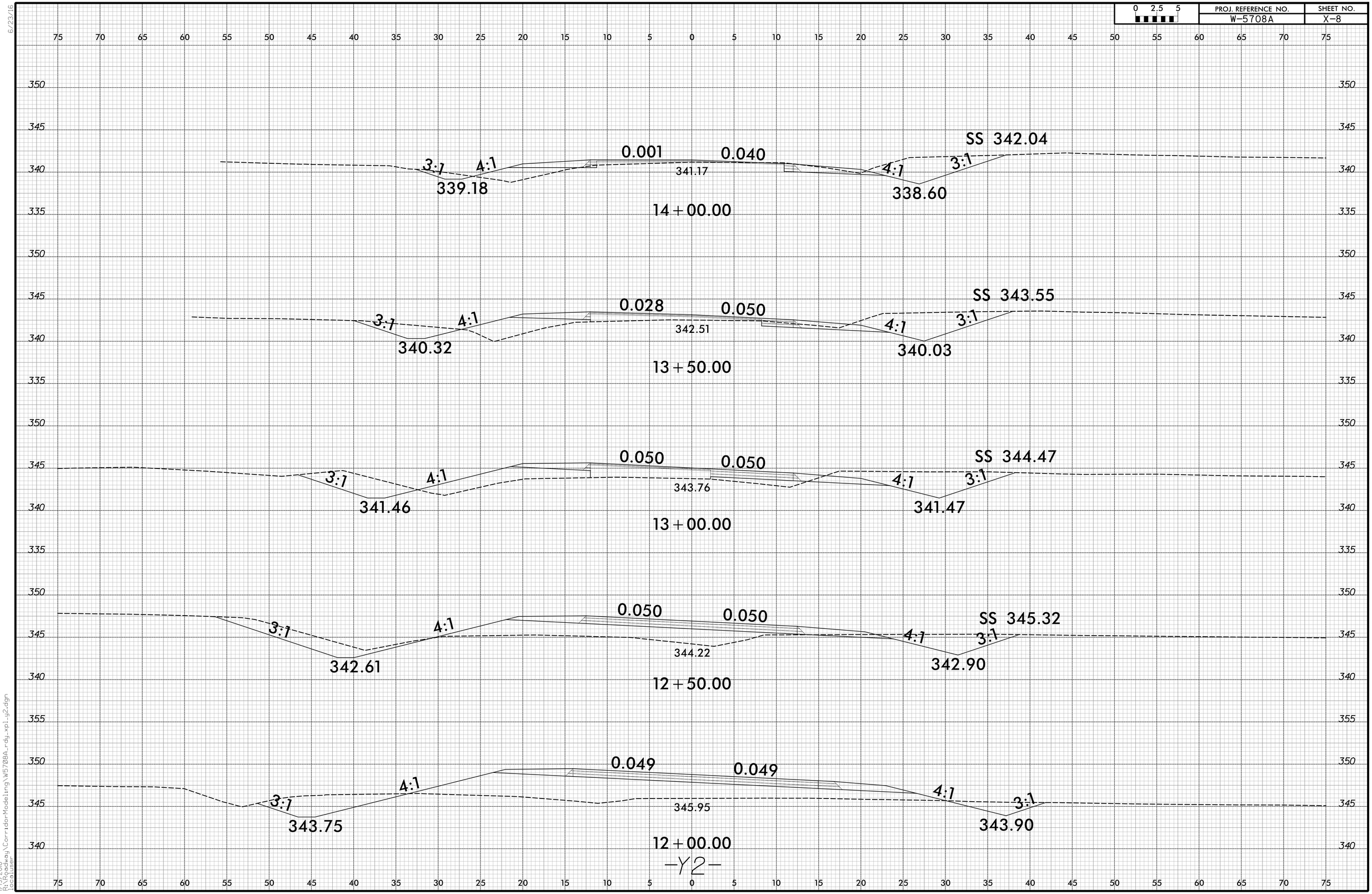
349.08

10+19.60

-Y2-

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-8



1/19/2018
R:\Roadway\CorridorModeling\W5708A_rdy_xpl_y2.dgn
locallUser

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-9

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

340
335
345
340
335
345
340
335

338.55
15+00.00

END CONSTRUCTION –Y2– STA. 14+65.00

EXIST. EXIST.
339.44
14+65.00

3:1 4:1 0.027 0.020 4:1
339.82
338.03 SS 339.71
14+50.00

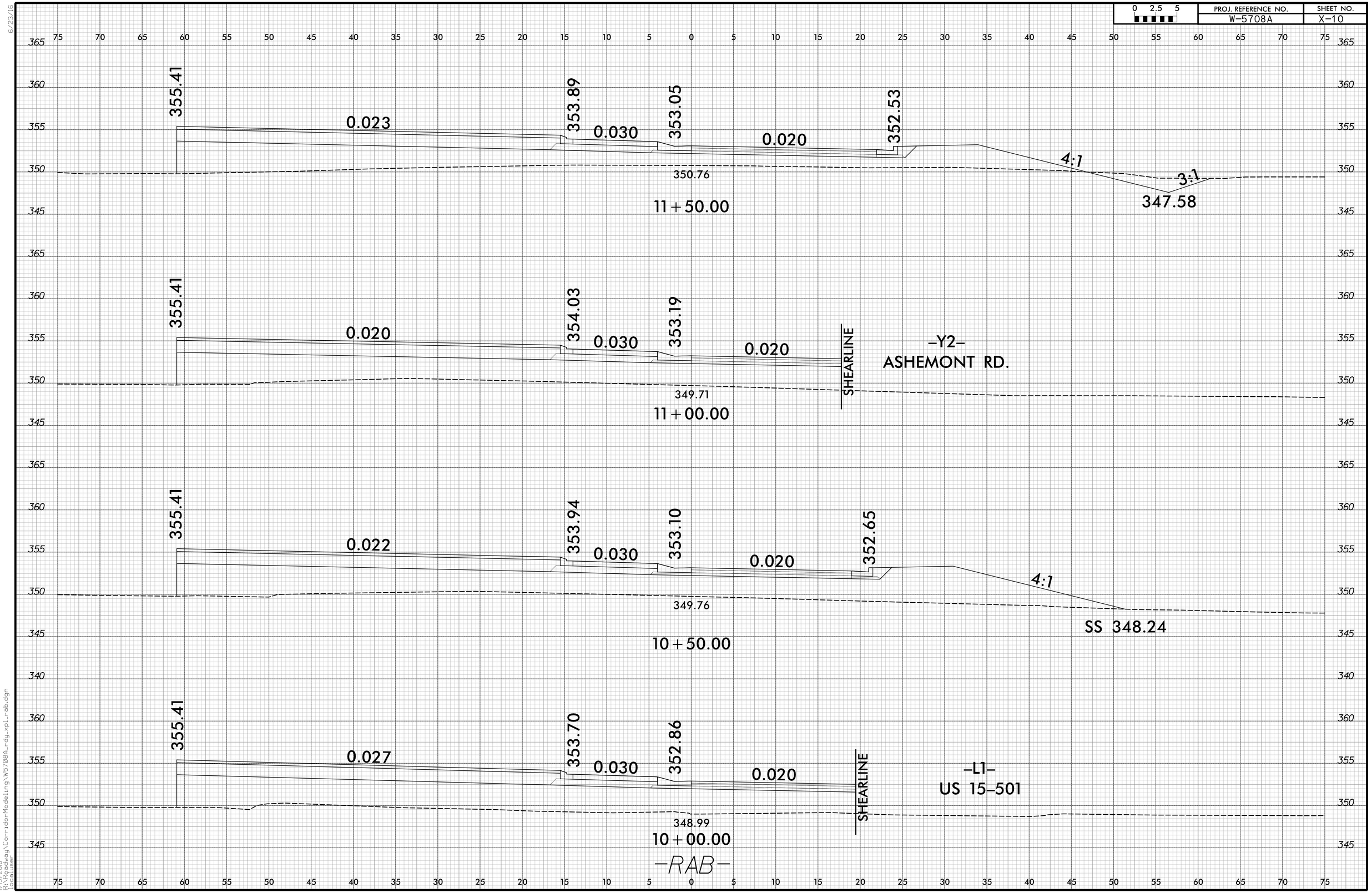
–Y2–

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

1/19/2018
R:\Roadway\CorridorModeling\W5708A_rdy_xpl_y2.dgn
locallUser

6/23/16

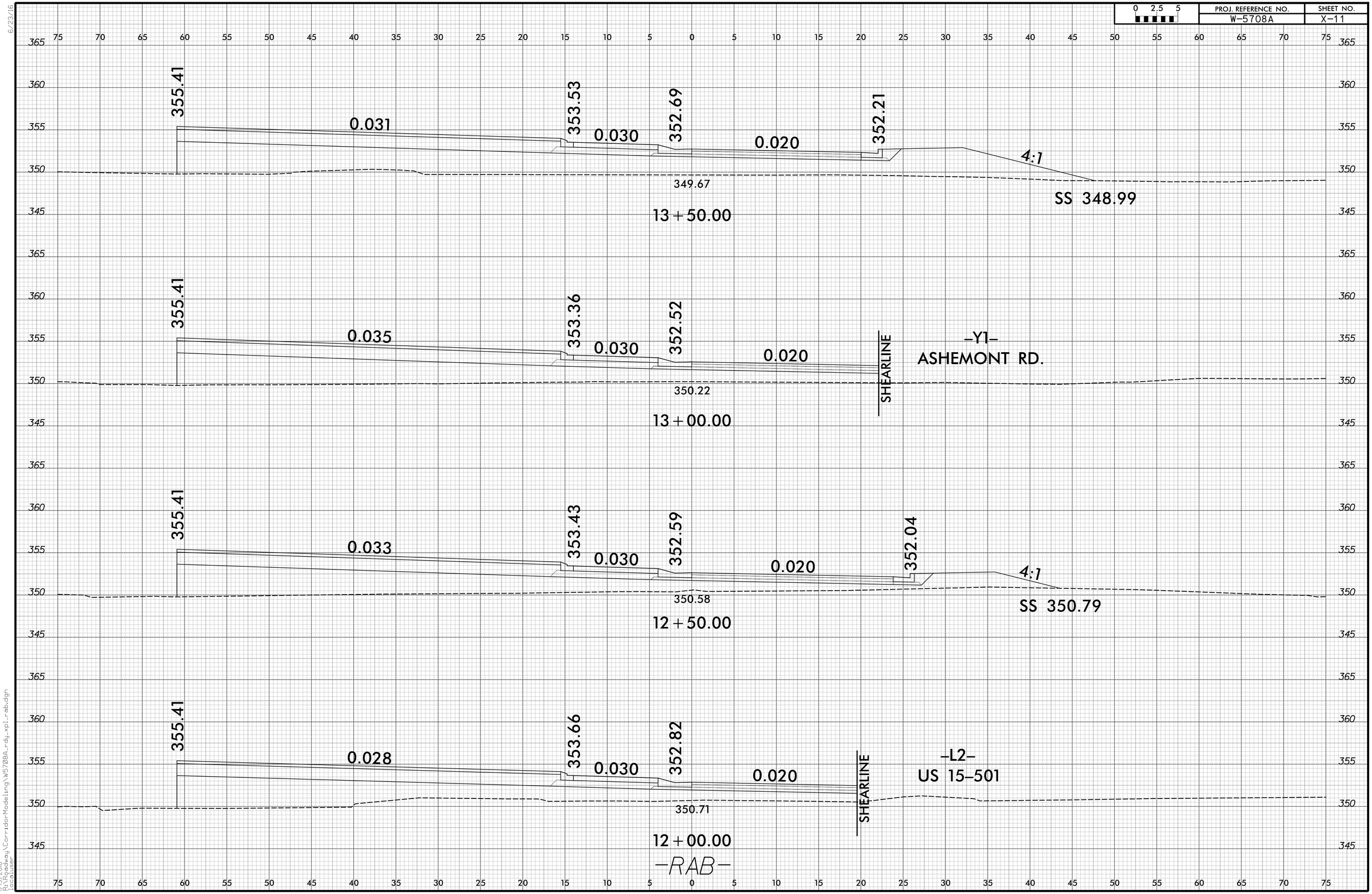
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-10



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R:\Roadway\CorridorModeling\W5708A_rdy_xpl_rab.dgn
locluser

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-11



1/19/2018
R:\Roadway\CorridorModeling\W5708A_rdy_xpl_rab.dgn
locUser

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-12

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

355
350
345
340

EXIST.
349.71
13+50.00
4:1
347.35

EXIST.
349.74
13+00.00
200:1

EXIST.
349.46
12+50.00
4:1

EXIST.
349.25
12+00.00
4:1

EXIST.
349.03
11+50.00
4:1

EXIST.
348.95
11+00.00
4:1

EXIST.
348.72
10+50.00
4:1

EXIST.
348.35
10+00.00

-L_TMP3-

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

1/19/2018
R:\Roadway\CorridorModeling\W5708A_rdy_xpl_temp.dgn
locallUser

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-13

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

360
355
350
345

EXIST.
352.53
15+50.00

EXIST.
351.97
15+00.00
4:1

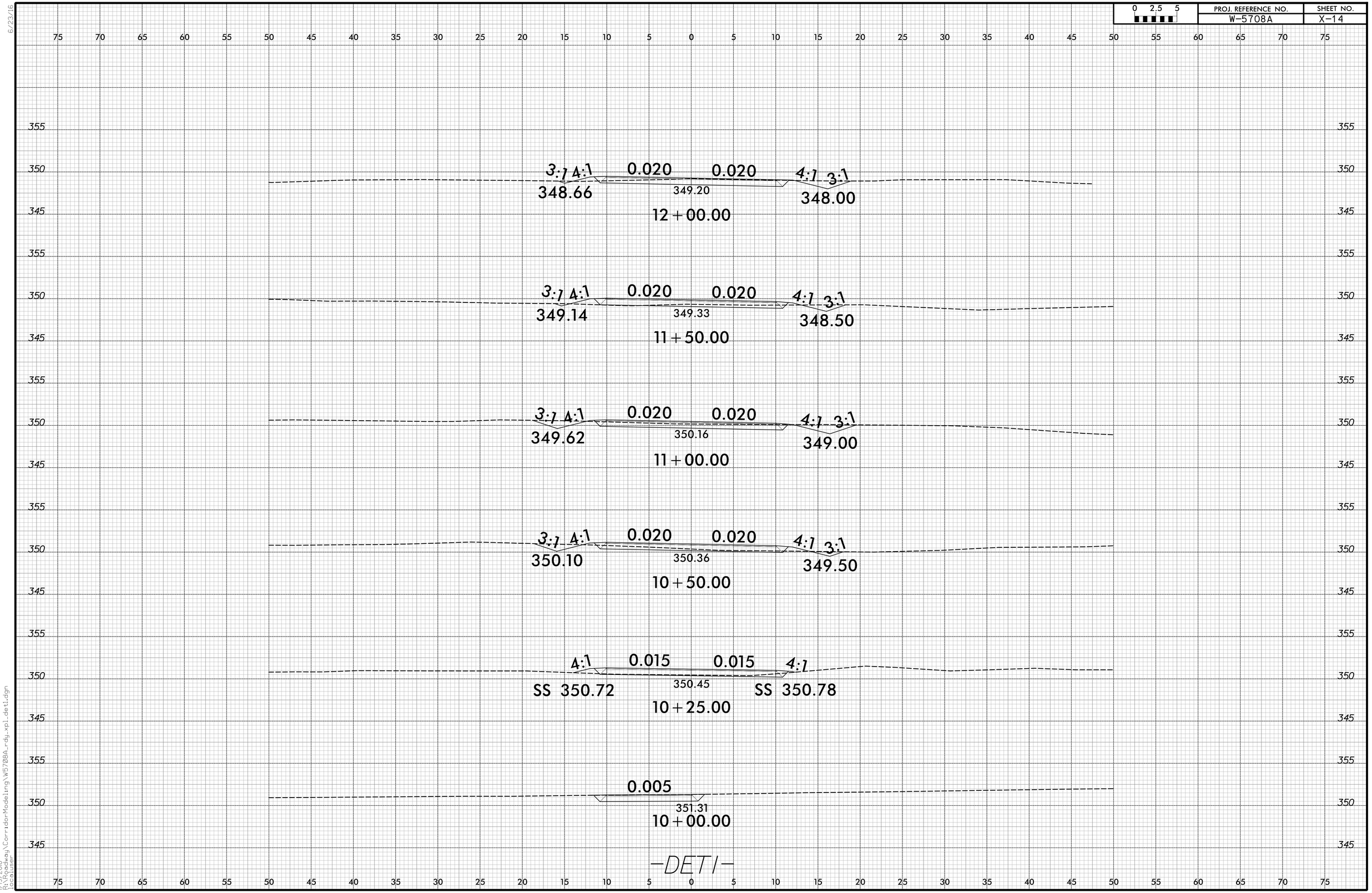
EXIST.
351.37
14+50.00
4:1
4:1
348.65

EXIST.
350.48
14+00.00
4:1
4:1
348.00

-L_TMP3-

1/19/2018
R:\Roadway\CorridorModeling\W5708A_rdy_xpl_temp.dgn
locallUser

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-14



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	W-5708A	X-15

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

355 350 345 355 350 345 355 350 345 355 350 345 340

5.51:1 0.010 0.010 4:1

SS 348.00 347.95 SS 347.90

13+25.00

3:1 14.18:1 0.010 0.010 4:1 3:1

347.70 347.96 347.00

13+00.00

3:1 4:1 0.010 0.010 4:1 3:1

348.18 348.61 347.50

12+50.00

-DET I-

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

1/19/2018
R:\Roadway\CorridorModeling\W5708A_rdy_xpl_detl.dgn
locallUser