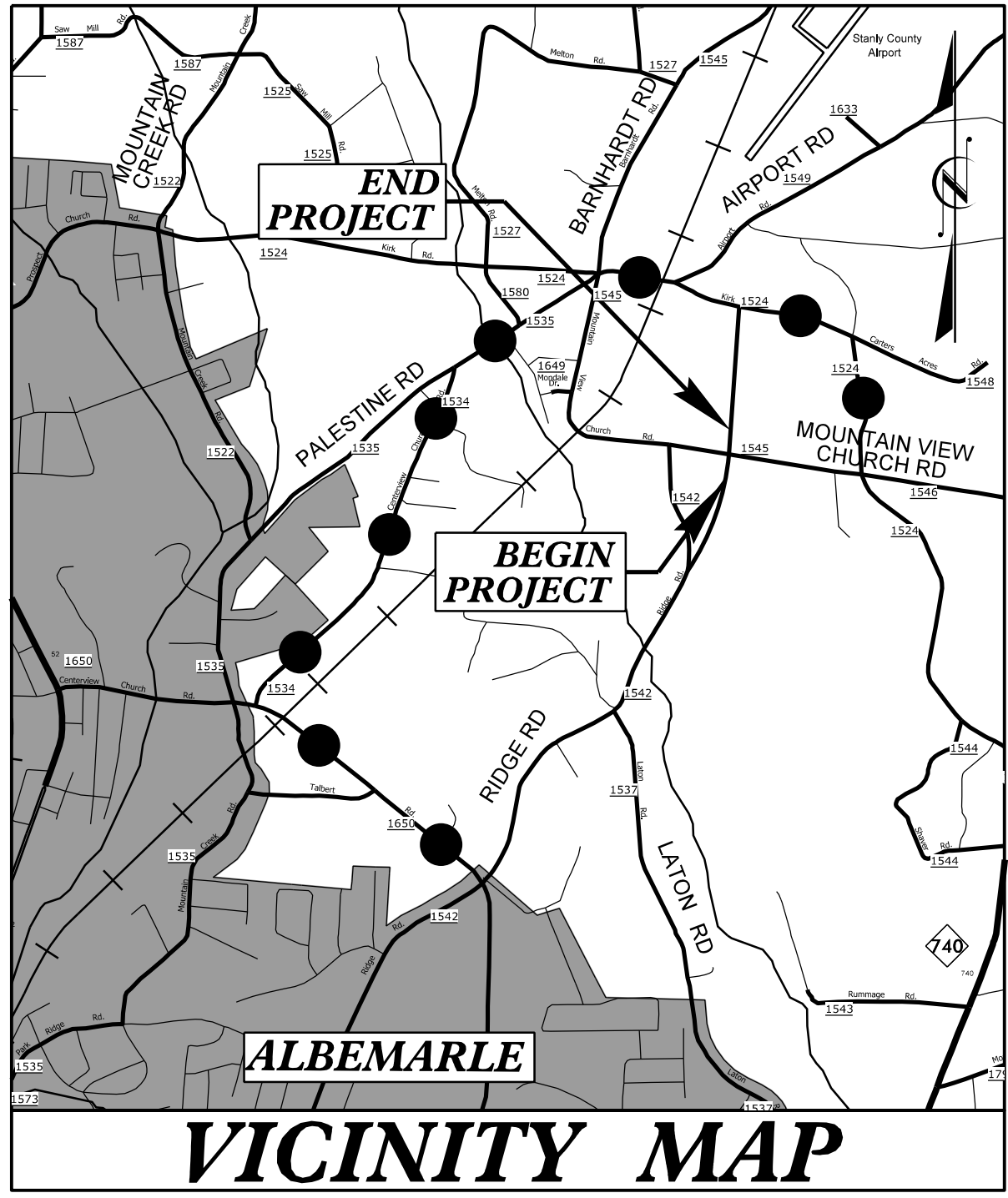


05/30/17

See Sheet 1A For Index of Sheets
 See Sheet 1B For Conventional Symbols
 See 1C Sheet Series For Survey Control

TIP PROJECT: W-5710AG



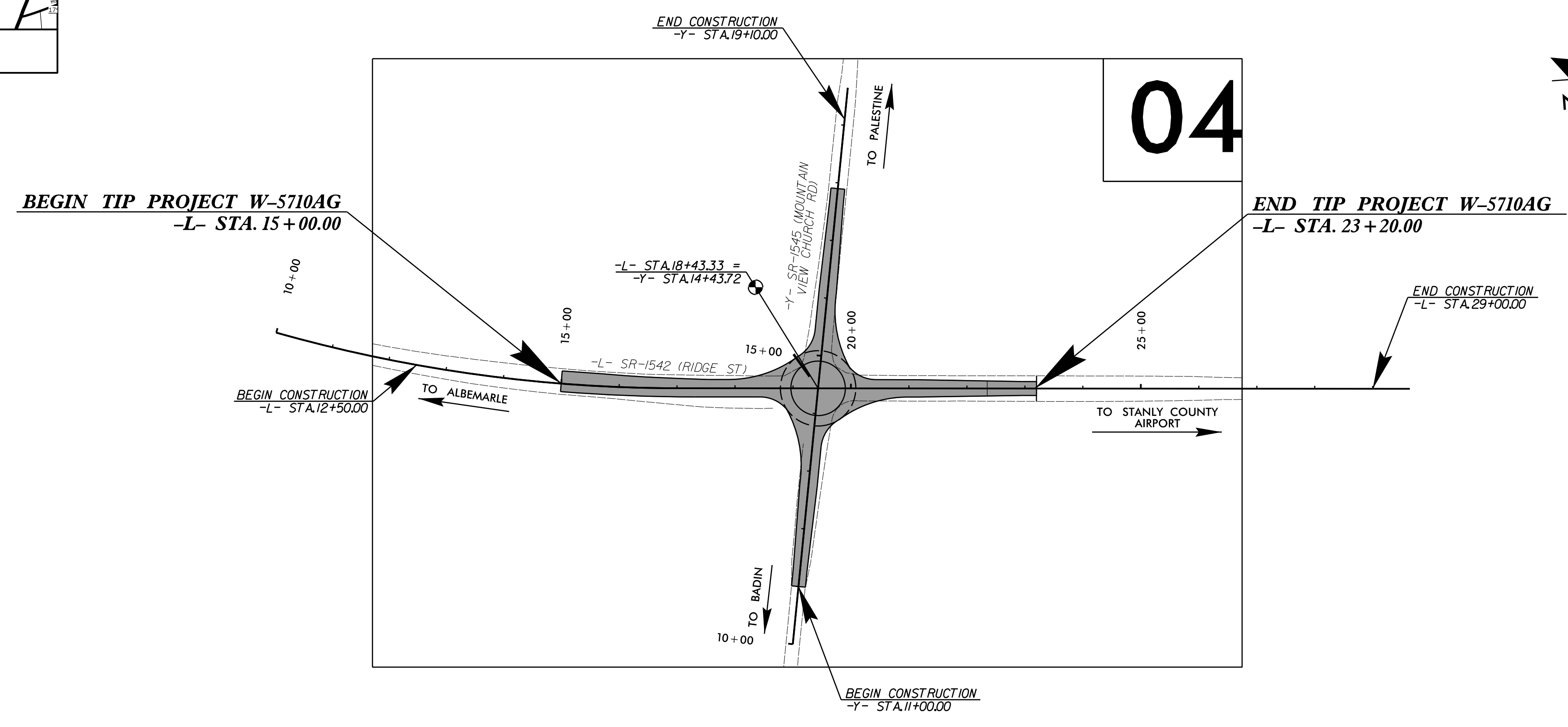
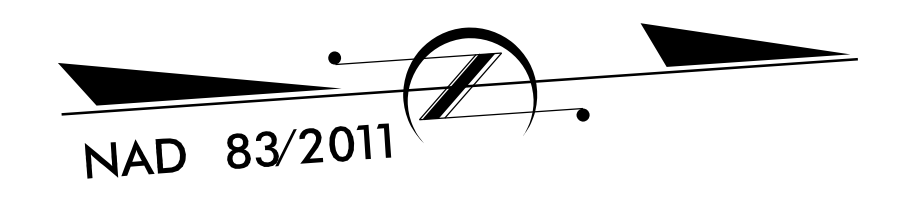
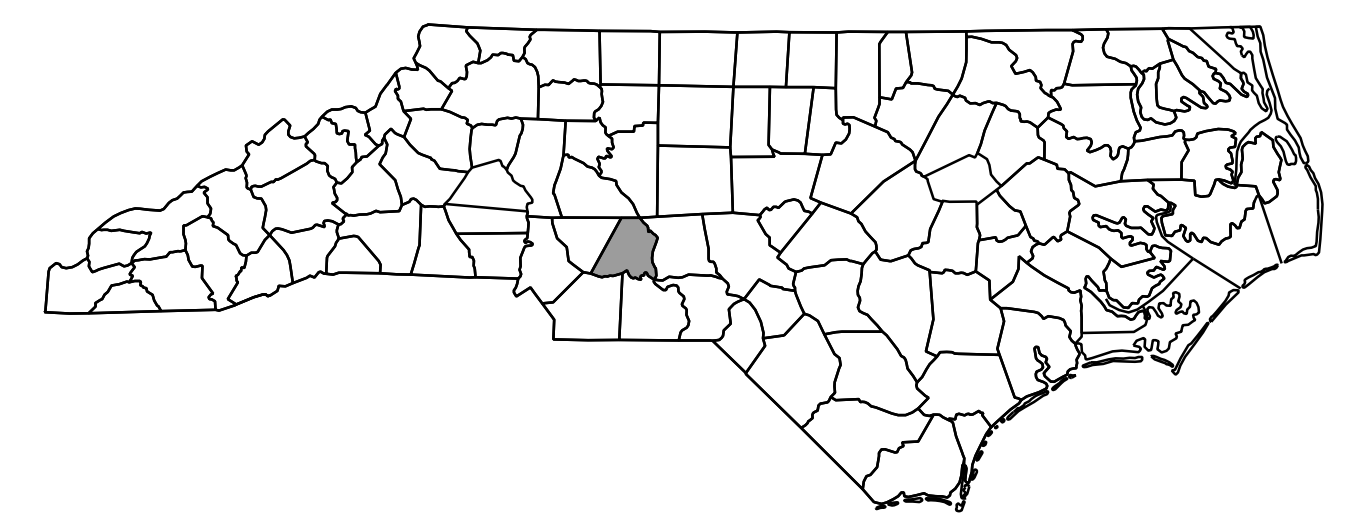
FINAL PLANS

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
STANLY COUNTY

**LOCATION: INTERSECTION OF SR-1542 (RIDGE STREET)
 AND SR-1545 (MOUNTAIN VIEW CHURCH ROAD)**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, C&G,
 THERMOPLASTIC PAVEMENT MARKINGS,
 TRAFFIC CONTROL, AND EROSION CONTROL**

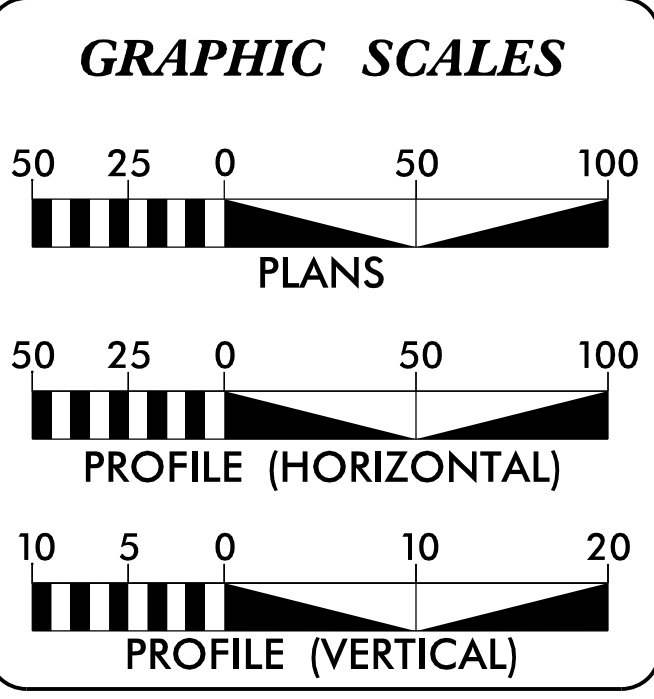
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5710AG	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44856.1.35	HSIP-1542(013)	P.E.	
44856.2.35	HSIP-1542(013)	R/W	
44856.2.35	HSIP-1542(013)	UTILS.	
44856.3.35	HSIP-1542(013)	CONST.	



THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

CONTRACT: DJ00368



DESIGN DATA

ADT 2020 =	1948
ADT 2040 =	2838
K =	%
D =	%
T =	% *
V =	60 MPH
* TTST =	DUAL
FUNC CLASS =	RURAL LOCAL
SUB-REGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5710AG	0.155 MI
TOTAL LENGTH OF TIP PROJECT W-5710AG	0.155 MI

PLANS PREPARED BY:

DRMP
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

4235 SOUTH STREAM BLVD., SUITE 150
 CHARLOTTE, NORTH CAROLINA 28217
 (704) 332-2289
 NC LICENSE NO. C-2213

FOR HIGHWAY DIVISION 10

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 JUNE 18, 2019

LETTING DATE:
 MAY 5, 2021

MICHAEL D. HAGE, P.E.
 PROJECT ENGINEER

NATHAN E. WRIGHT, P.E.
 PROJECT DESIGN ENGINEER

DM-STIP PROJECT MANAGER

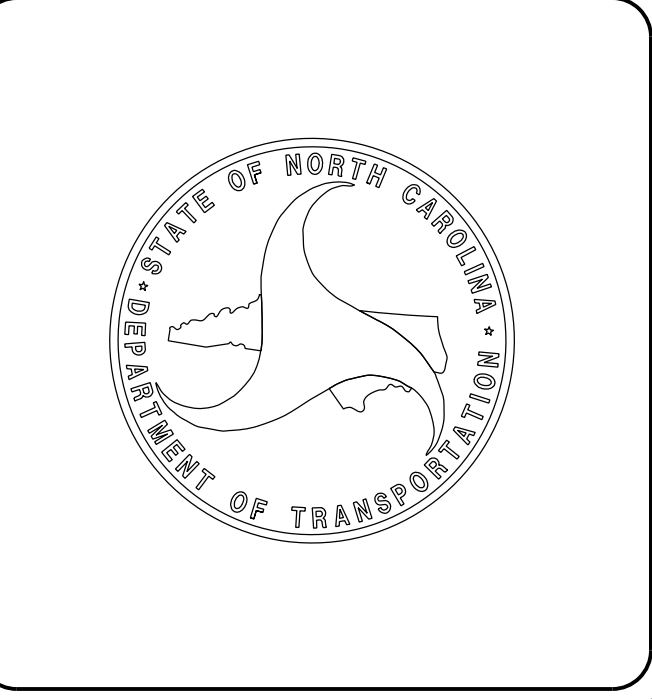
NC DOT CONTACT:
 DONALD GRIFFITH

HYDRAULICS ENGINEER

DocuSigned by:
 Ryan P. Mitchell
 SIGNATURE: P.E. 3/10/2021

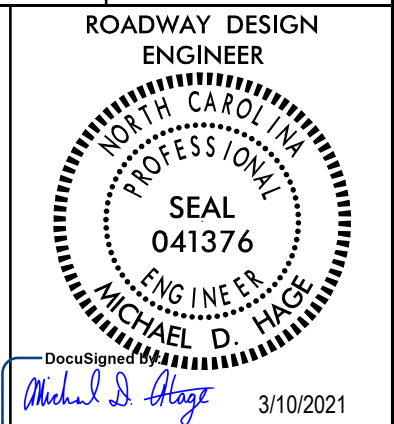
ROADWAY DESIGN ENGINEER

DocuSigned by:
 Michael D. Hage
 SIGNATURE: P.E. 3/10/2021

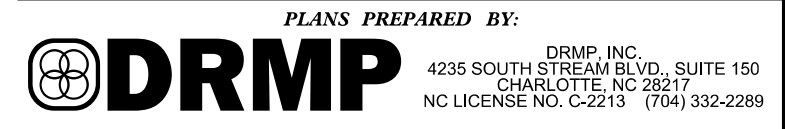


B.17/99

PROJECT REFERENCE NO.	SHEET NO.
W-5710AG	1A



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SHEET NUMBER	INDEX OF SHEETS	SHEET
1		TITLE SHEET
1A		INDEX OF SHEETS, GENERAL NOTES & LIST OF STANDARDS
1B		CONVENTIONAL SYMBOLS
RW02C-1 THRU RW02C-3		SURVEY CONTROL SHEETS
RW02D-1		PROPOSED ALIGNMENT CONTROL SHEET
2A-1 THRU 2A-3		PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1 THRU 2B-4		ROADWAY DETAILS
2C-1		SHOULDER WEDGE DETAILS
3B-1		ESTIMATE SUMMARY
3D-1		SUMMARY OF DRAINAGE STRUCTURES
4		PLAN SHEET
5		PROFILE SHEET
TMP-1 THRU TMP-6		TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-3		PAVEMENT MARKING PLANS
EC-1 THRU EC-5		EROSION CONTROL PLANS
SIGN-1 THRU SIGN-4		SIGNING PLANS
UD-1 THRU UD-2		UTILITIES BY OTHER PLANS
X-1A		CROSS-SECTION INDEX SHEET
X-1B		CROSS-SECTION SUMMARY SHEET
X-1 THRU X-16		CROSS-SECTIONS

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

**GRADE LINE:
GRADING AND SURFACING:**

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

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. SUPERELEVATION 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.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:

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

SUBSURFACE PLANS:

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

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE

POWER DISTRIBUTION - SCE POWER
GAS DISTRIBUTION - PIEDMONT NATURAL GAS
TELECOM - CHARTER/SPECTRUM
TELECOM - AT&T
TELECOM - WINDSTREAM
WATER/SEWER - STANLY COUNTY UTILITIES

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 OTHERS.

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 Super-elevation - Two Lane Pavement
240.01	Guide for Berm Ditch Construction
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.02	Parallel Pipe End Section - Precast Concrete Section for 15" to 24" Pipe
310.03	Cross Pipe End Section - Precast Concrete Section for 18" to 30" Pipe
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Super-elevated Curve - Method I
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
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
846.01	Concrete Curb, Gutter and Curb & Gutter
850.10	Guide for Berm Drainage Outlet - 15" and 18" Pipe
850.11	Guide for Berm Drainage Outlet - 24" and 30" Pipe
852.01	Concrete Islands
852.02	Concrete Mountable Median - for Use with Rigid or Flexible Pavement
852.06	Method for Placement of Drop Inlets in Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class "B" Rip Rap

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12/2/2016

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----
Property Monument	□ EDM
Parcel/Sequence Number	①23
Existing Fence Line	-X-X-X-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- WLB
Proposed Wetland Boundary	----- WLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Existing Historic Property Boundary	----- HPB
Known Contamination Area: Soil	☠ S ☠
Potential Contamination Area: Soil	☠ S ☠
Known Contamination Area: Water	☠ W ☠
Potential Contamination Area: Water	☠ W ☠
Contaminated Site: Known or Potential	-----

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ 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	----- R/W
New Right of Way Line with Pin and Cap	----- R/W
New Right of Way Line with Concrete or Granite R/W Marker	----- R/W
New Control of Access Line with Concrete C/A Marker	----- C/A
Existing Control of Access	----- C/A
New Control of Access	----- C/A
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	○

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	----- Vineyard

EXISTING STRUCTURES:

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

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
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	⊕
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	----- T
U/G Telephone Cable LOS C (S.U.E.*)	----- T
U/G Telephone Cable LOS D (S.U.E.*)	----- T
U/G Telephone Conduit LOS B (S.U.E.*)	----- TC
U/G Telephone Conduit LOS C (S.U.E.*)	----- TC
U/G Telephone Conduit LOS D (S.U.E.*)	----- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- 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	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

TV:

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

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

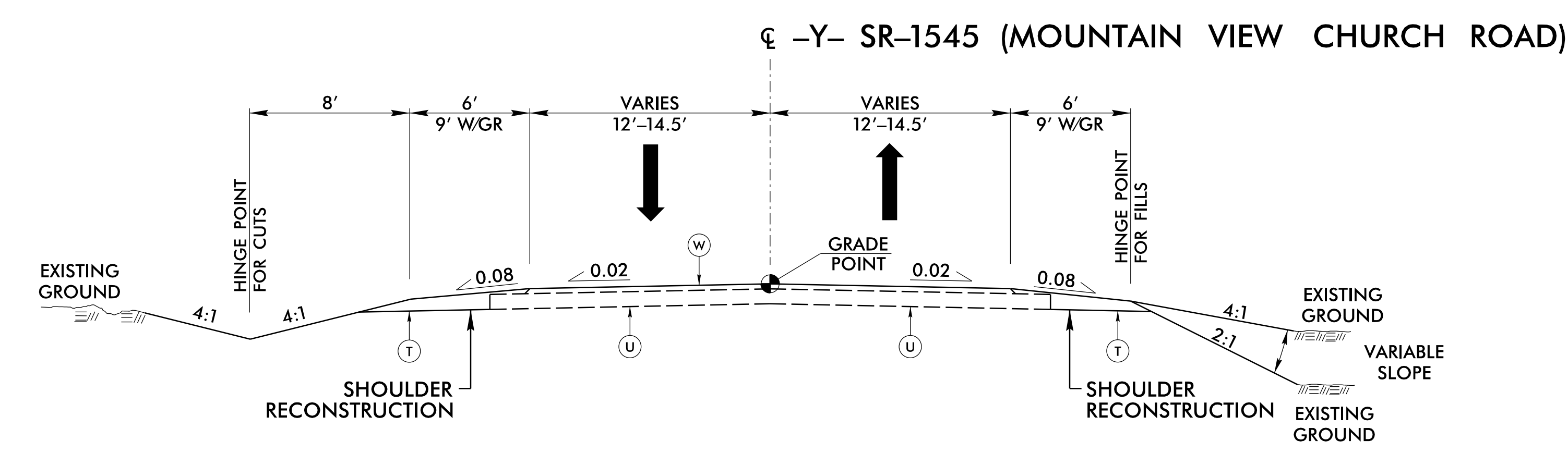
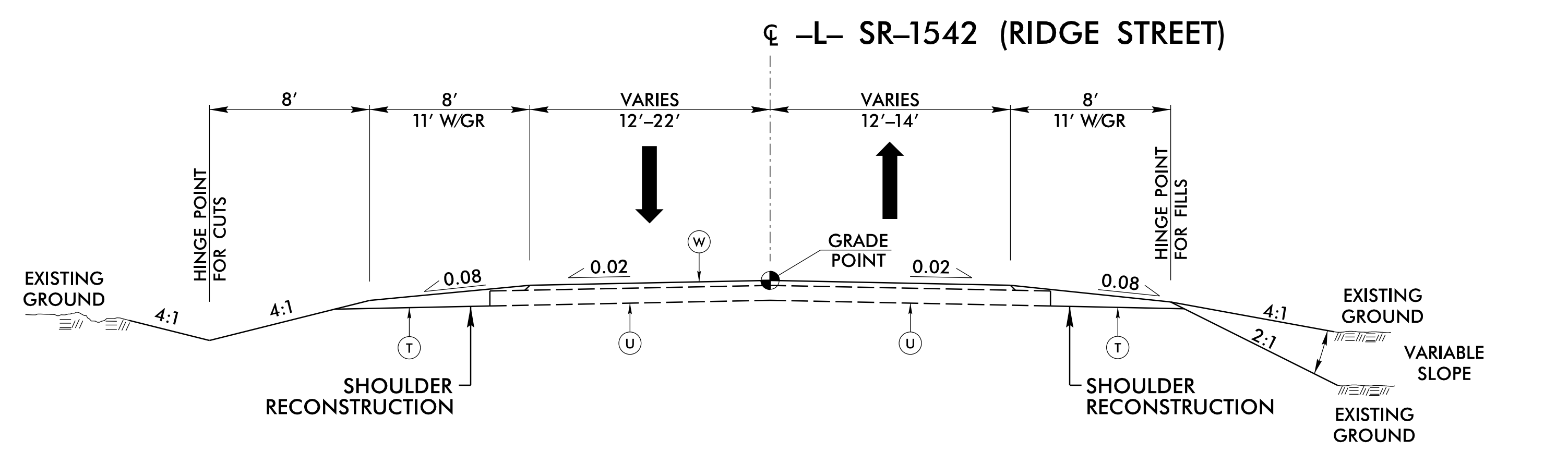
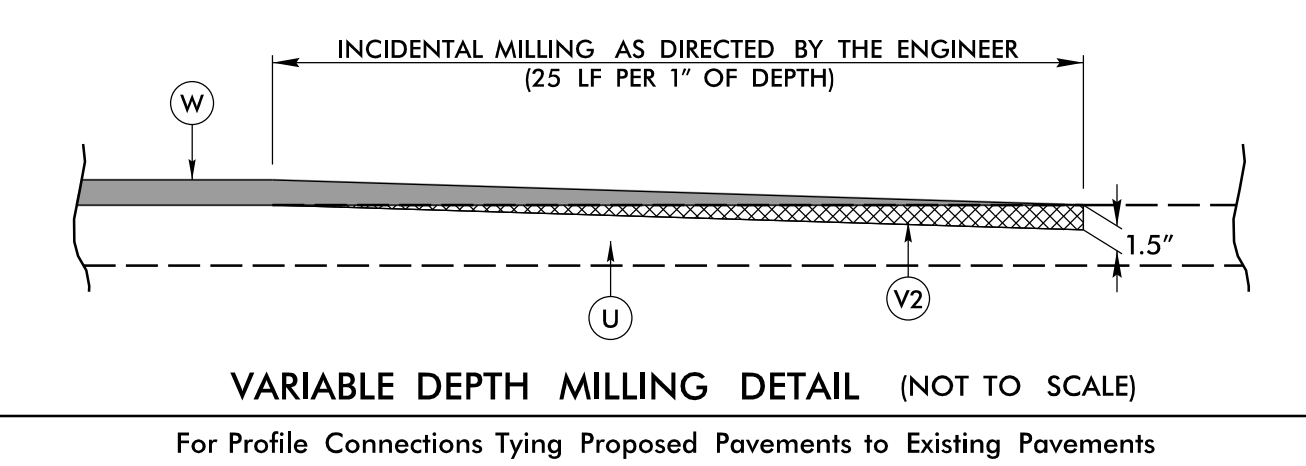
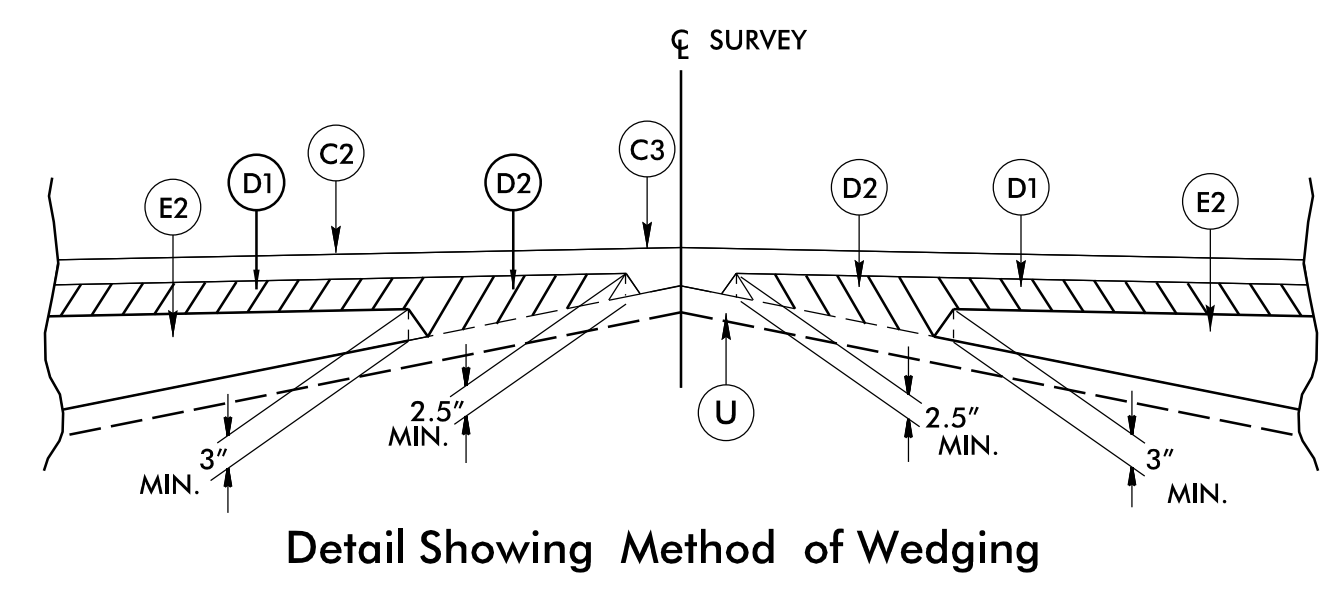
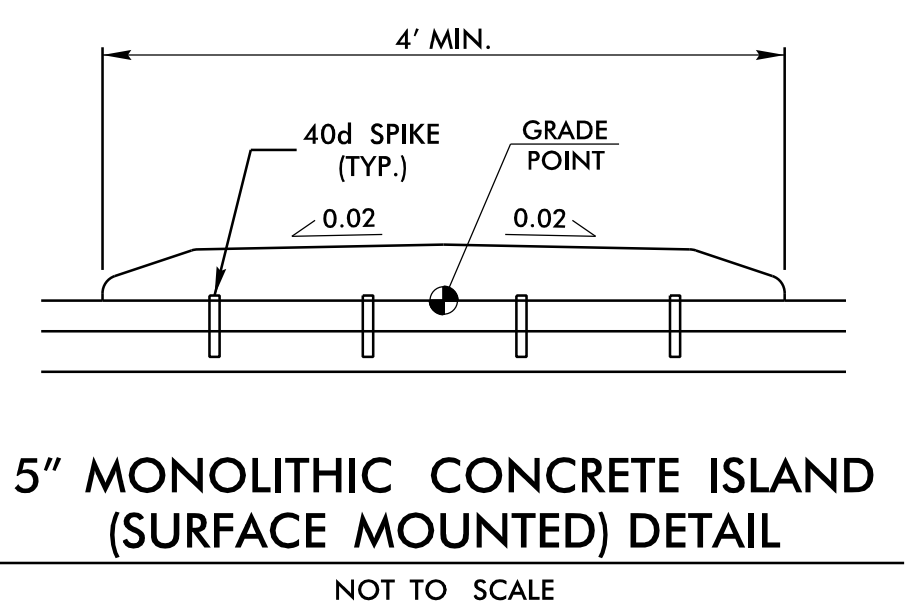
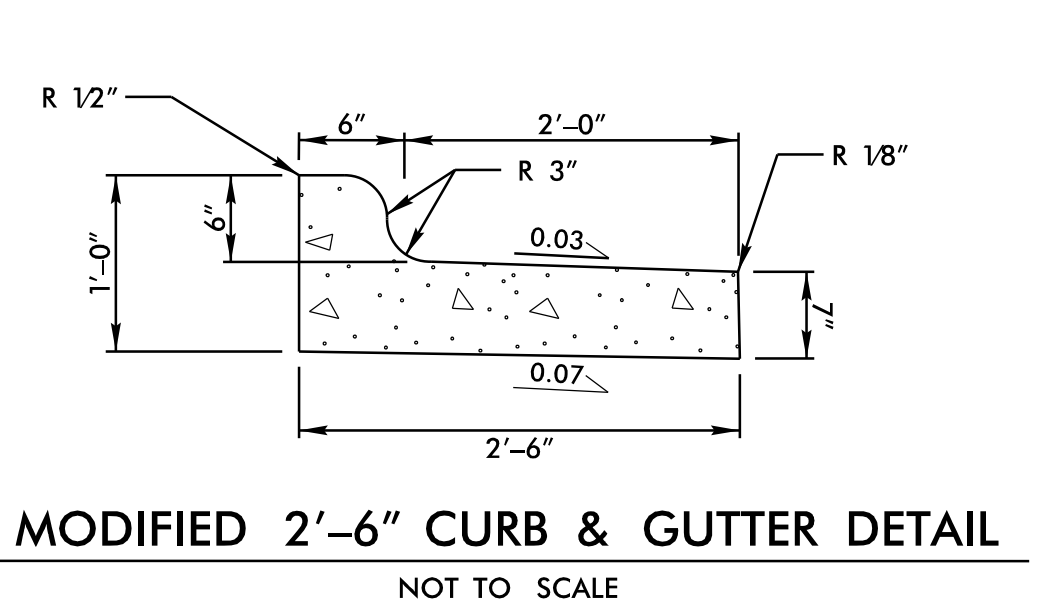
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PAVEMENT SCHEDULE

(FINAL PAVEMENT DESIGN)

A	PROP. 7" TRUCK MOUNTABLE CONCRETE ISLAND (CLASS AA CONCRETE).	E1	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.	R5	PROP. 1'-6" CONCRETE CURB AND GUTTER (CLASS AA CONC. W/ BLACK TINT).
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	E2	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.	T	EARTH MATERIAL.
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.	R1	PROP. 1'-6" CONCRETE CURB AND GUTTER, CLASS AA CONCRETE.	U	EXISTING PAVEMENT.
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 1½" IN DEPTH.	R2	PROP. MODIFIED 2'-6" CONCRETE CURB AND GUTTER (SEE SHEET 2A-1).	V1	MILLING BITUMINOUS PAVEMENT. 1½" DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R3	PROP. 5" MONOLITHIC ISLAND (SURFACE MOUNTED).	V2	VARIABLE DEPTH MILLING PAVEMENT (SEE DETAIL SHEET 2A-1)
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.	R4	PROP. 7" TRUCK MOUNTABLE CONC. APRON (CLASS AA CONC. W/ BLACK TINT).	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL SHEET 2A-1).

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



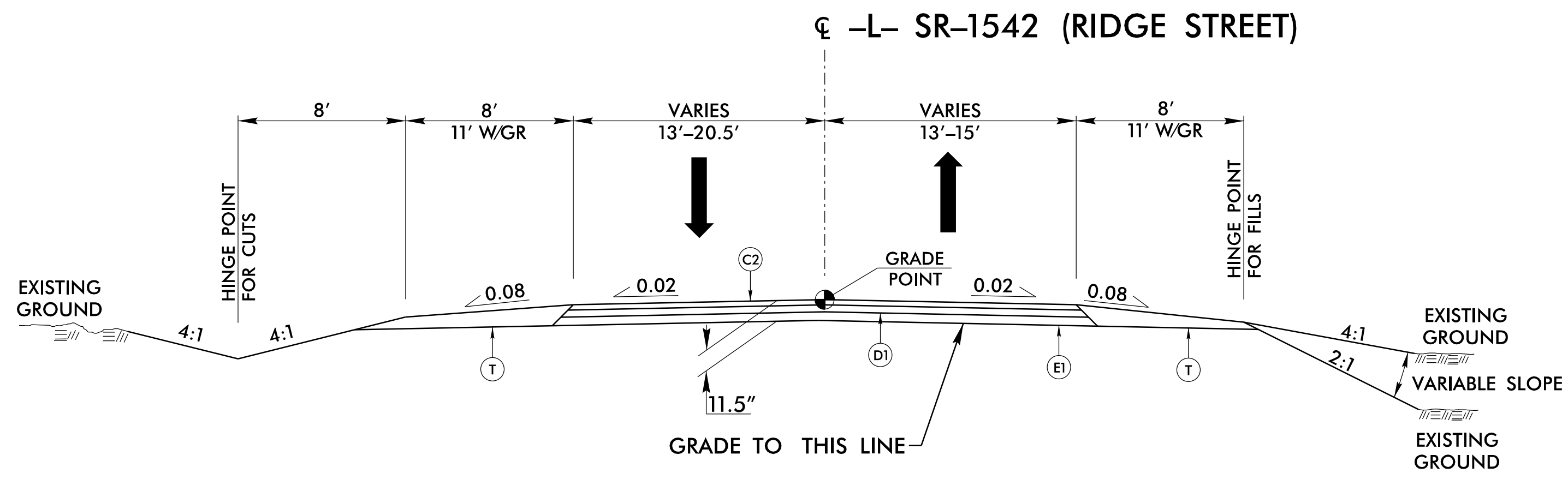
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ROADWAY DESIGN ENGINEER SEAL 041376 MICHAEL D. HIGGINS	PAVEMENT DESIGN ENGINEER SEAL 034357 MICHAEL E. BERRY
3/29/2021	3/29/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
PLANS PREPARED BY: DRMP	
DRMP, INC. 4235 SOUTH STREAM BLVD., SUITE 150 CHARLOTTE, NC 28217 NC LICENSE NO. CC-2213 (704) 332-2289	

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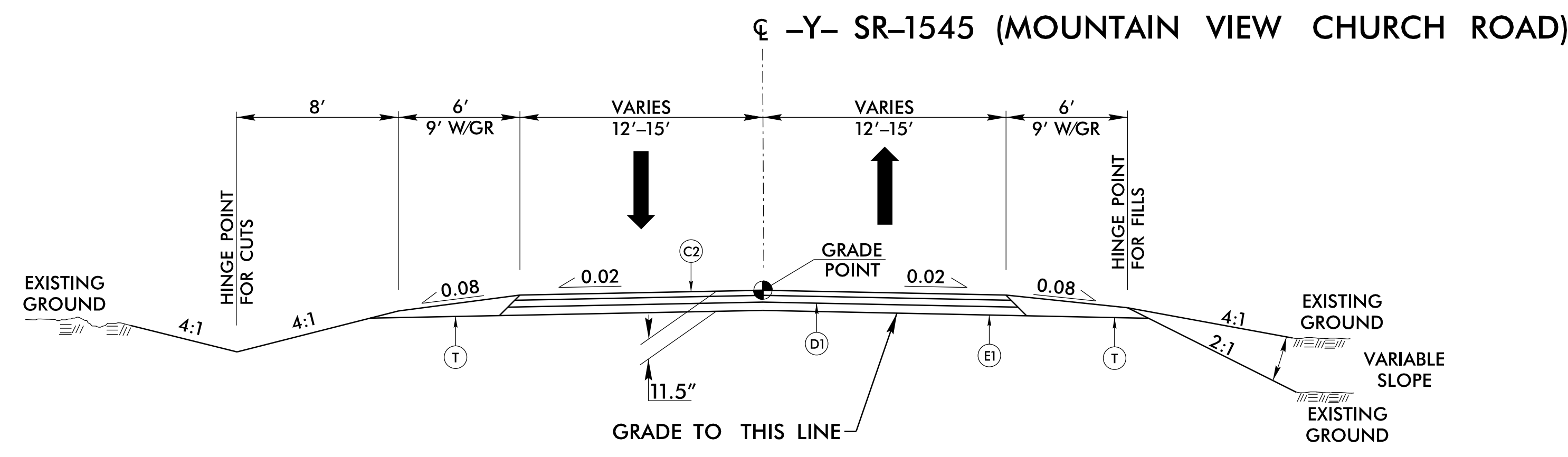
6/2/2021

PROJECT REFERENCE NO. W-5710AG	SHEET NO. 2A-2
ROADWAY DESIGN ENGINEER MICHAEL D. HIGGINS SEAL 041376 3/29/2021	PAVEMENT DESIGN ENGINEER MICHAEL D. HIGGINS SEAL 034357 3/29/2021

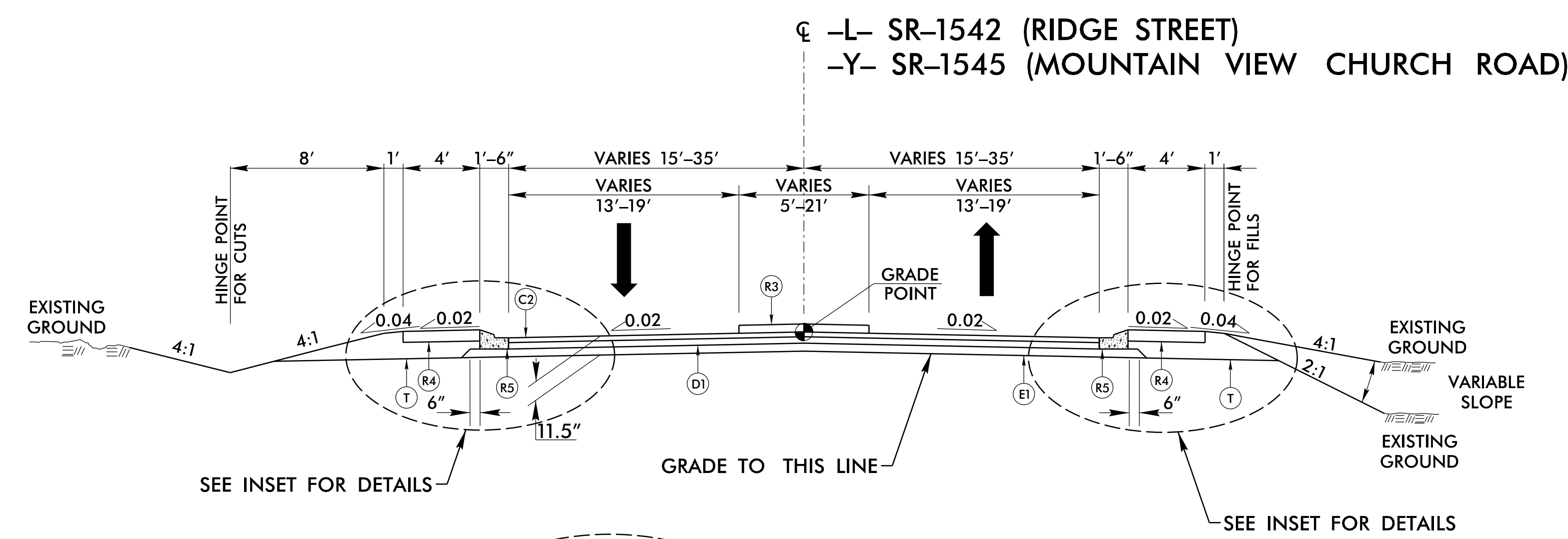
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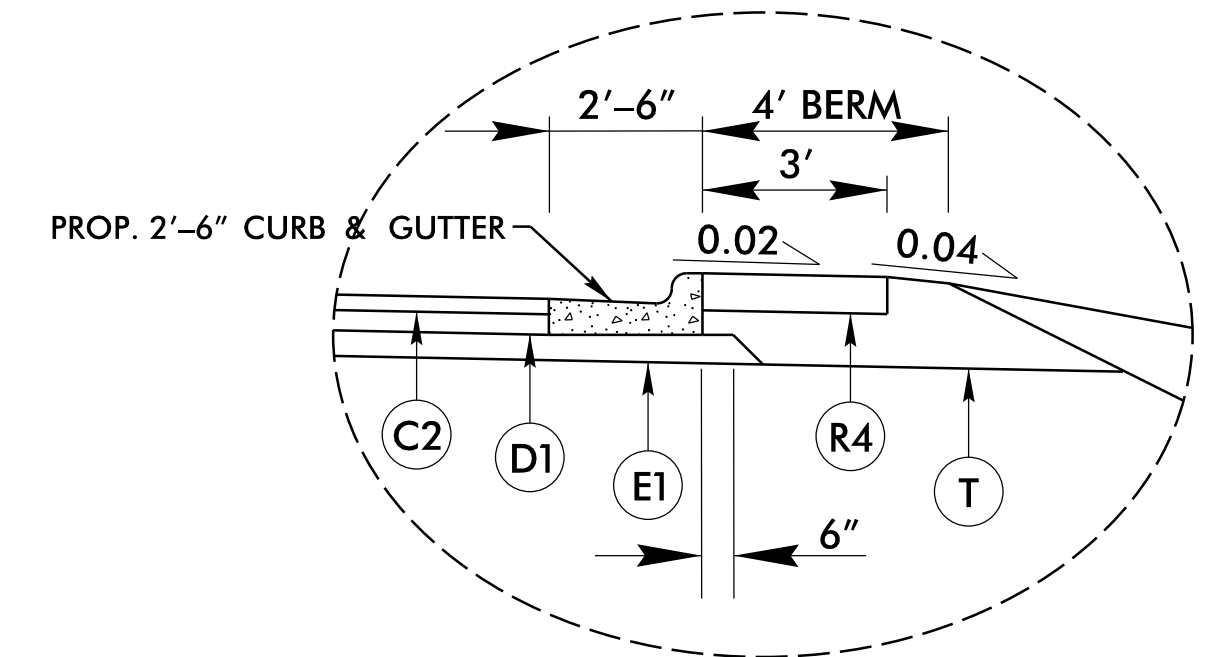
TYPICAL SECTION NO. 3
 -L- STA. 16 + 50.00 TO -L- STA. 17 + 75.00
 -L- STA. 21 + 15.00 TO -L- STA. 22 + 35.00



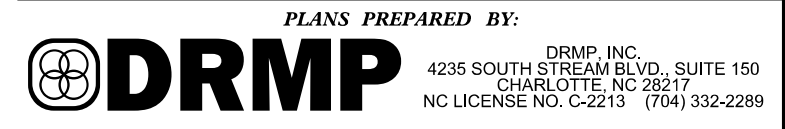
TYPICAL SECTION NO. 4
 -Y- STA. 12 + 50.00 TO -Y- STA. 12 + 75.00
 -Y- STA. 16 + 15.00 TO -Y- STA. 16 + 50.00



TYPICAL SECTION NO. 5
 -L- STA. 17 + 75.00 TO -L- STA. 18 + 75.00
 -L- STA. 20 + 12.00 TO -L- STA. 21 + 15.00
 -Y- STA. 12 + 75.00 TO -Y- STA. 13 + 75.00
 -Y- STA. 15 + 12.00 TO -Y- STA. 16 + 15.00



INSET: 2'-6" CURB AND GUTTER
 -L- STA. 18 + 15.00 TO -L- STA. 18 + 41.00 (RT)
 -Y- STA. 15 + 49.50 TO -Y- STA. 15 + 75.50 (LT)
 -Y- STA. 15 + 89.50 TO -Y- STA. 16 + 15.00 (RT)

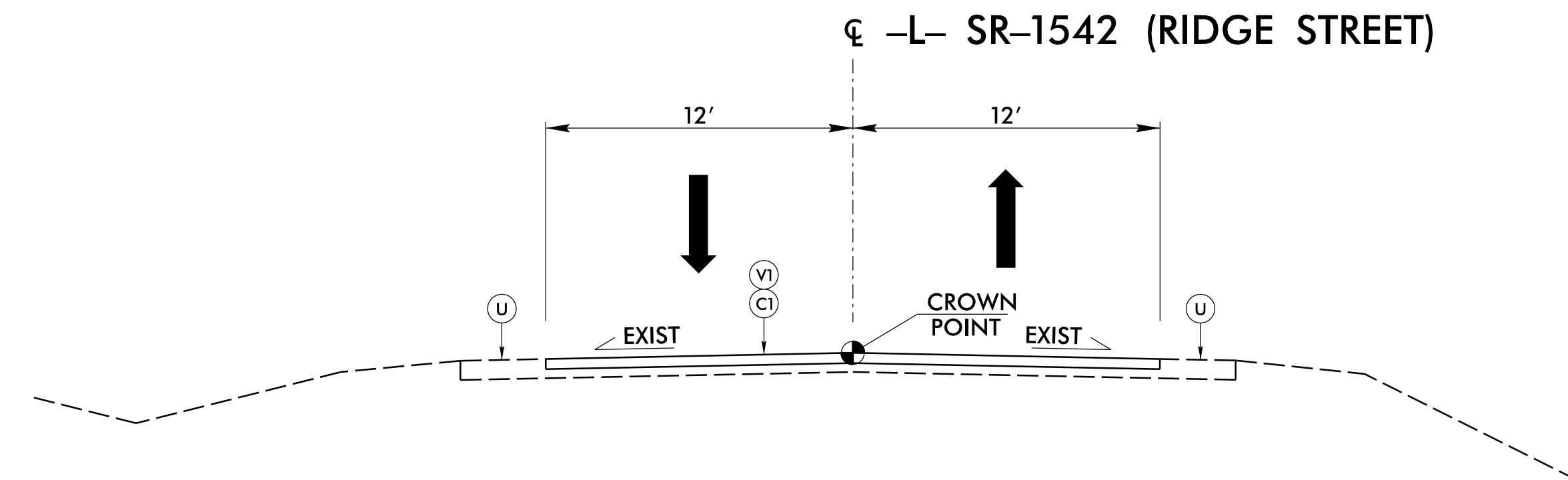


PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
A	7" TMCI (AA)
C1	1 1/2" S9.5B
C2	3" S9.5B
C3	VAR. DEPTH S9.5B
D1	4" I19.0C
D2	VAR. DEPTH I19.0C
E1	4 1/2" B25.0C
E2	VAR. DEPTH B25.0C
R1	1'-6" C&G (AA)
R2	2'-6" C&G MODIFIED
R3	5" MCI
R4	7" CONC. APRON (AA W/ BLK TINT)
R5	1'-6" C&G (AA W/ BLK TINT)
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	1 1/2" MILLING
V2	VAR. DEPTH MILLING
W	WEDGING

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 Michael

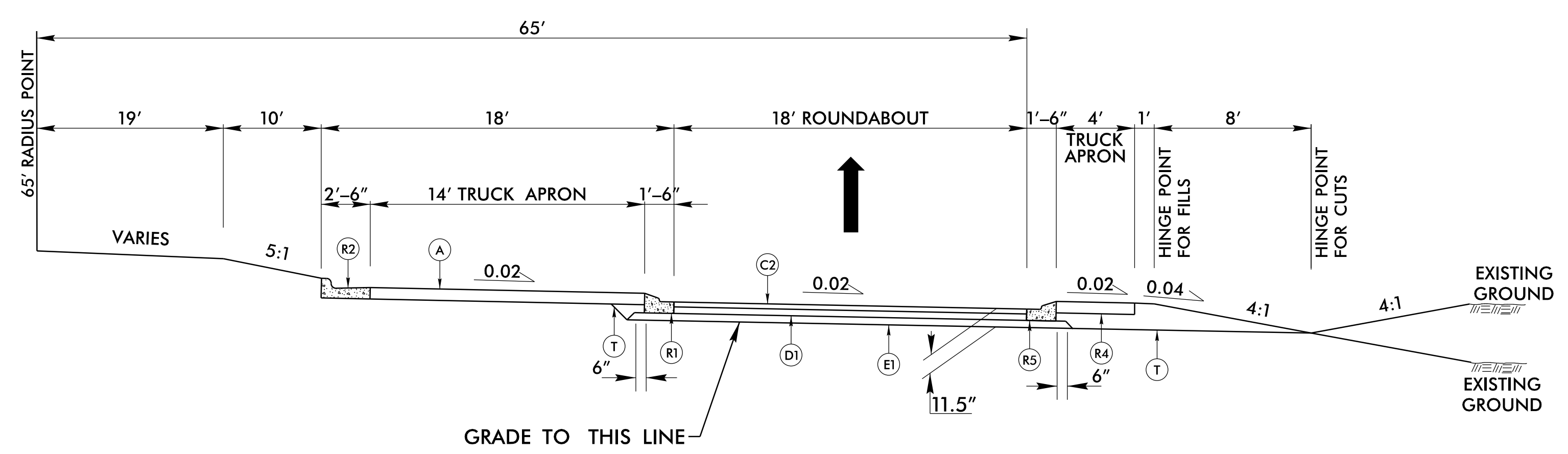
6/2/2021

PROJECT REFERENCE NO. W-5710AG	SHEET NO. 2A-3
ROADWAY DESIGN ENGINEER MICHAEL D. HIGGINS SEAL 041376 3/29/2021	PAVEMENT DESIGN ENGINEER MICHAEL D. HIGGINS SEAL 034357 3/29/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



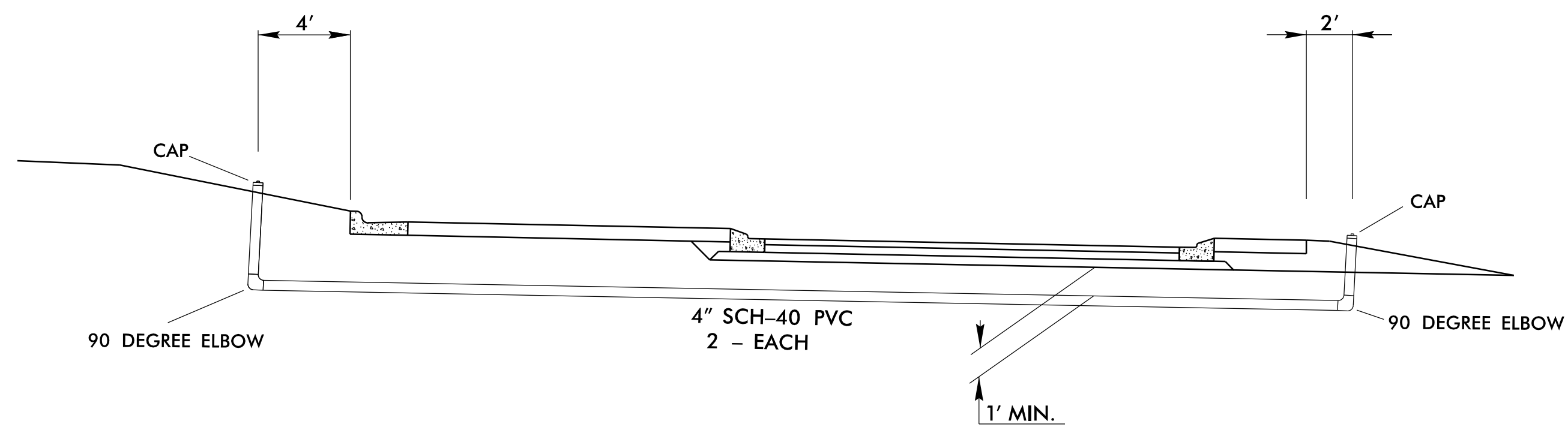
TYPICAL SECTION NO. 6
 -L- STA. 22 + 35.00 TO -L- STA. 29 + 00.00

NOTE: CONTRACTOR TO REESTABLISH NORMAL CROWN AT CENTERLINE



TYPICAL SECTION NO. 7
ROUNDAABOUT
 -L- STA. 18 + 75.00 TO -L- STA. 20 + 12.00
 -Y- STA. 13 + 75.00 TO -Y- STA. 15 + 12.00

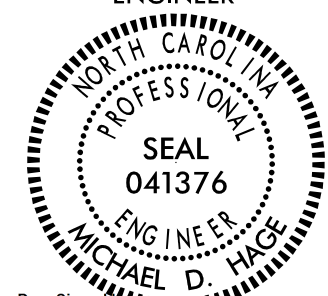
PAVEMENT SCHEDULE <small>(FINAL PAVEMENT DESIGN)</small>	
A	7" TMCI (AA)
C1	1 1/2" S9.5B
C2	3" S9.5B
C3	VAR. DEPTH S9.5B
D1	4" I19.0C
D2	VAR. DEPTH I19.0C
E1	4 1/2" B25.0C
E2	VAR. DEPTH B25.0C
R1	1'-6" C&G (AA)
R2	2'-6" C&G MODIFIED
R3	5" MCI
R4	7" CONC. APRON (AA W/ BLK TINT)
R5	1'-6" C&G (AA W/ BLK TINT)
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	1 1/2" MILLING
V2	VAR. DEPTH MILLING
W	WEDGING

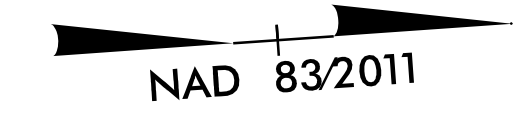


DETAIL 1
 4" SCH-40 PVC 2 - EACH

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 Michael

B.17/99

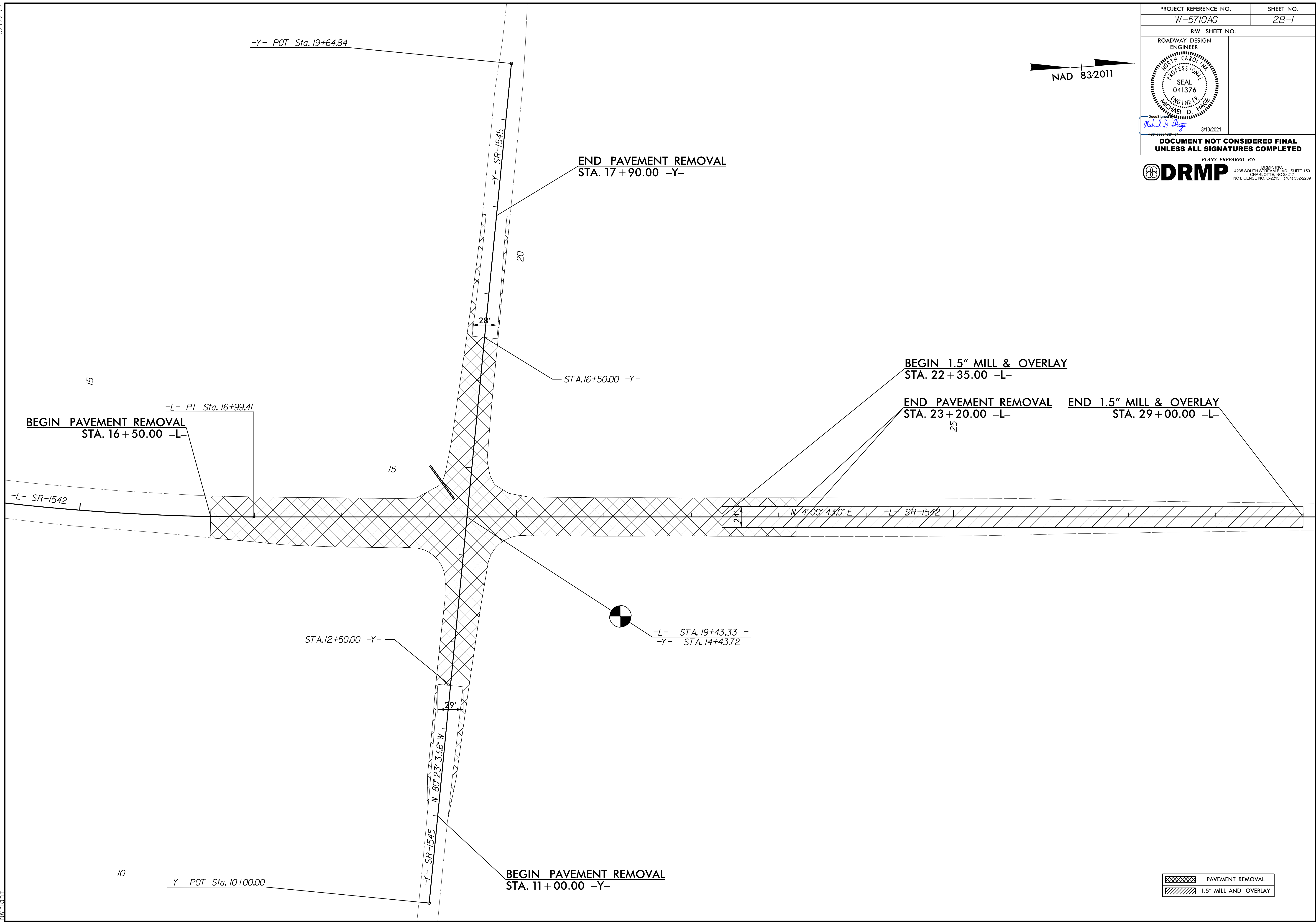
PROJECT REFERENCE NO. W-5710AG	SHEET NO. 2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
Michael D. Hagg 3/10/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

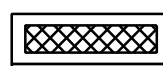
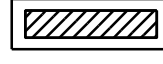


PLANS PREPARED BY:



DRMP, INC.
4235 SOUTH STREAM BLVD., SUITE 150
CHARLOTTE, NC 28217
NC LICENSE NO. C-2213 17041 332-2289



	PAVEMENT REMOVAL
	1.5" MILL AND OVERLAY

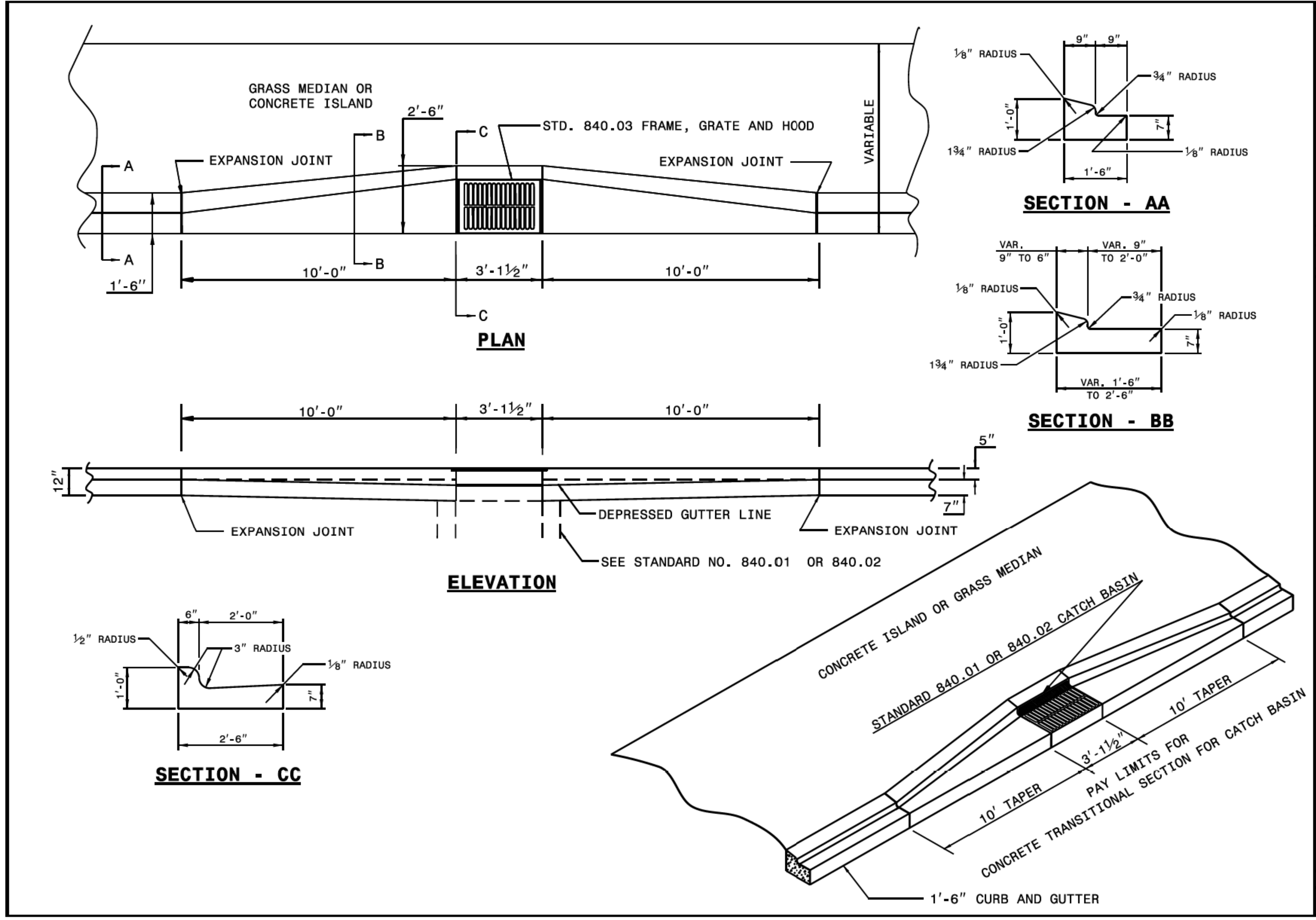
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PROJECT REFERENCE NO. W-5710AG	SHEET NO. 2B-2
ROADWAY DESIGN ENGINEER MICHAEL D. HIGGINS SEAL 041376 3/10/2021	HYDRAULICS ENGINEER RYAN P. MITCHELL SEAL 044113 3/10/2021

PLANS PREPARED BY: DRMP, INC. 4235 SOUTH STREAM BLVD., SUITE 150 CHARLOTTE, NC 28217 NC LICENSE NO. C-2213 (704) 332-2289

DRMP

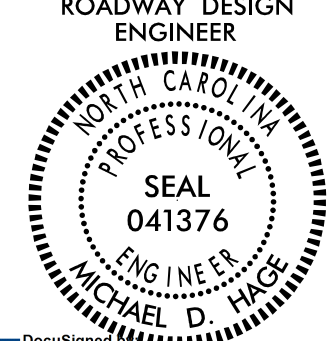
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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

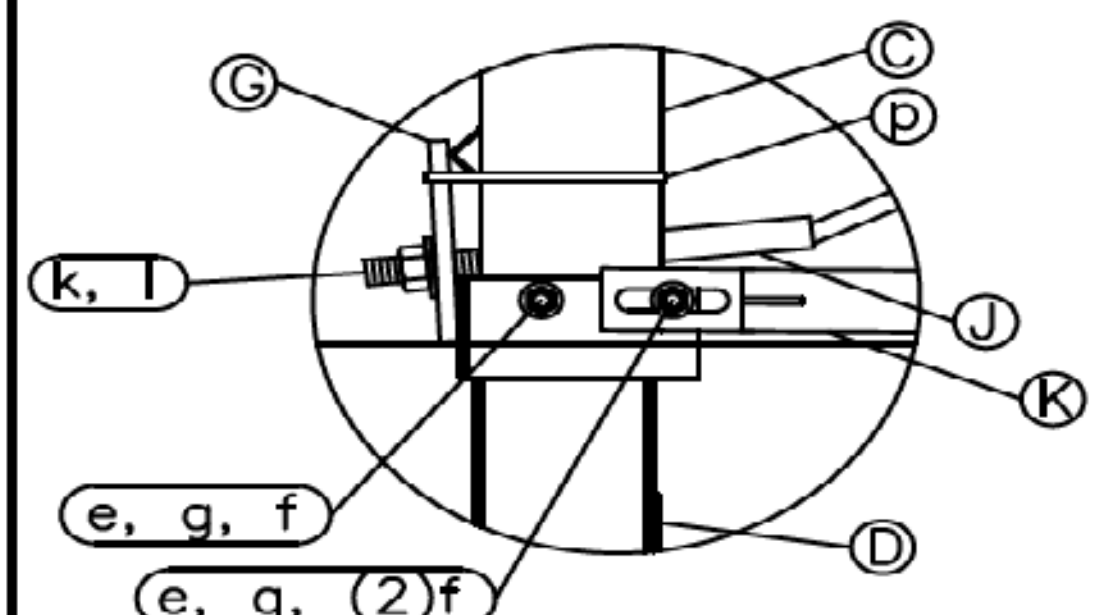
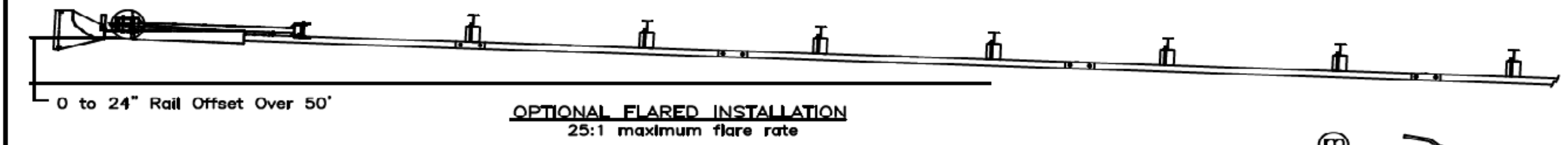
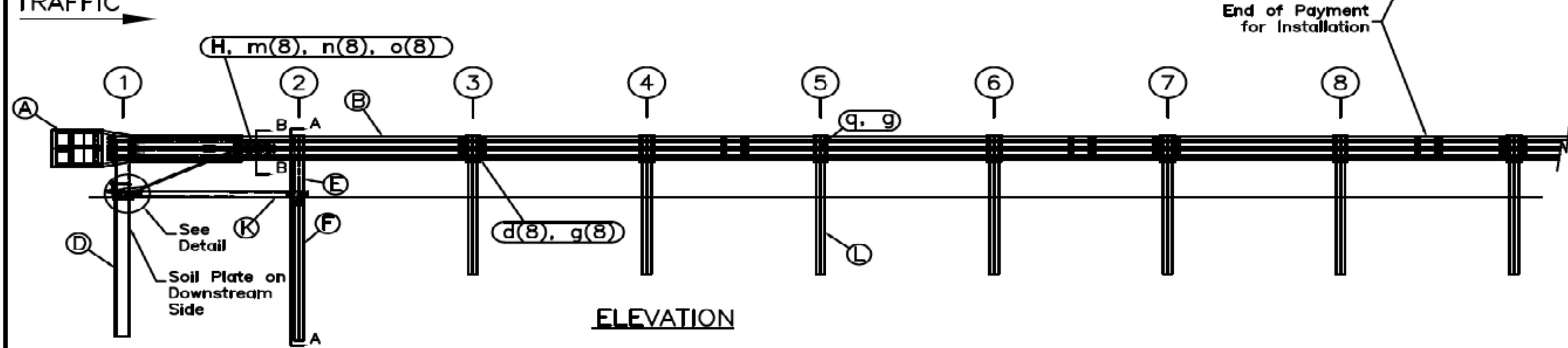
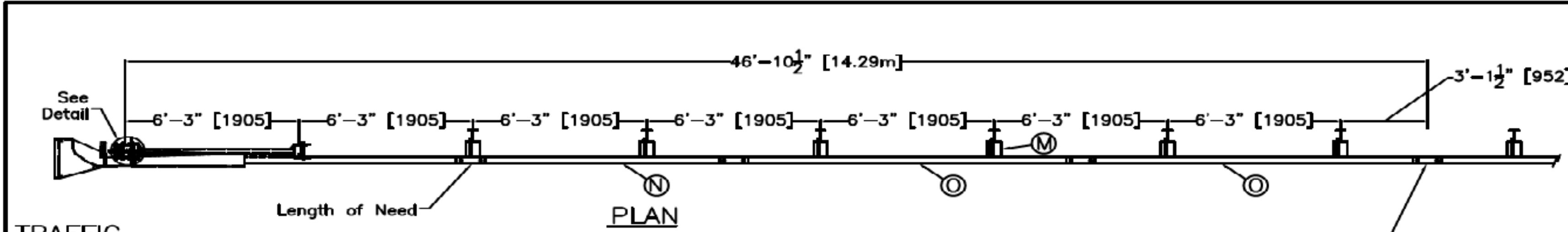
ROADWAY STANDARD DRAWING FOR MEDIAN CURB FOR CATCH BASIN (FOR USE WITH 1'-6" CURB AND GUTTER)

SHEET 1 OF 1 852.05

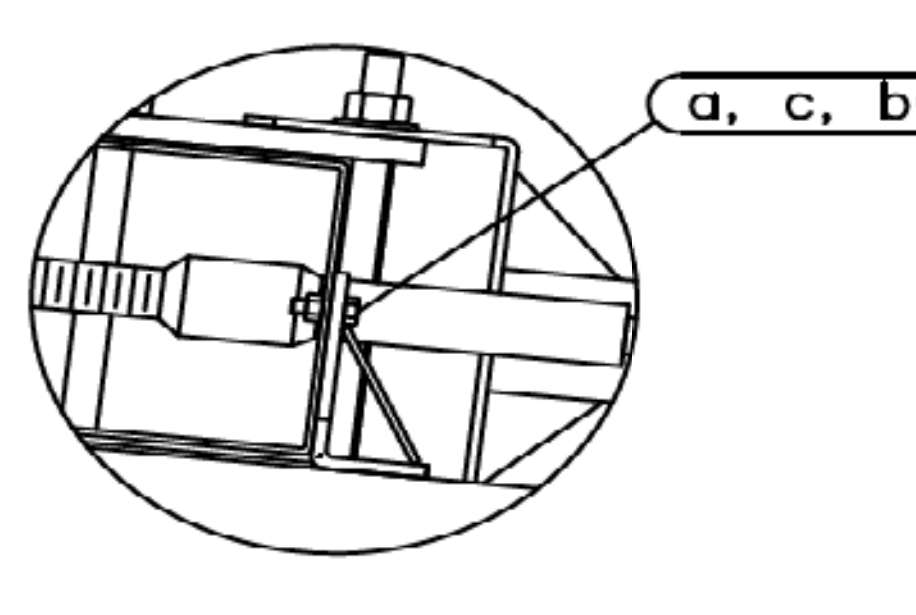
PROJECT REFERENCE NO. W-5710AG	SHEET NO. 2B-3
ROADWAY DESIGN ENGINEER	
	
DocuSigned by: Michael D. Hagg	3/10/2021

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

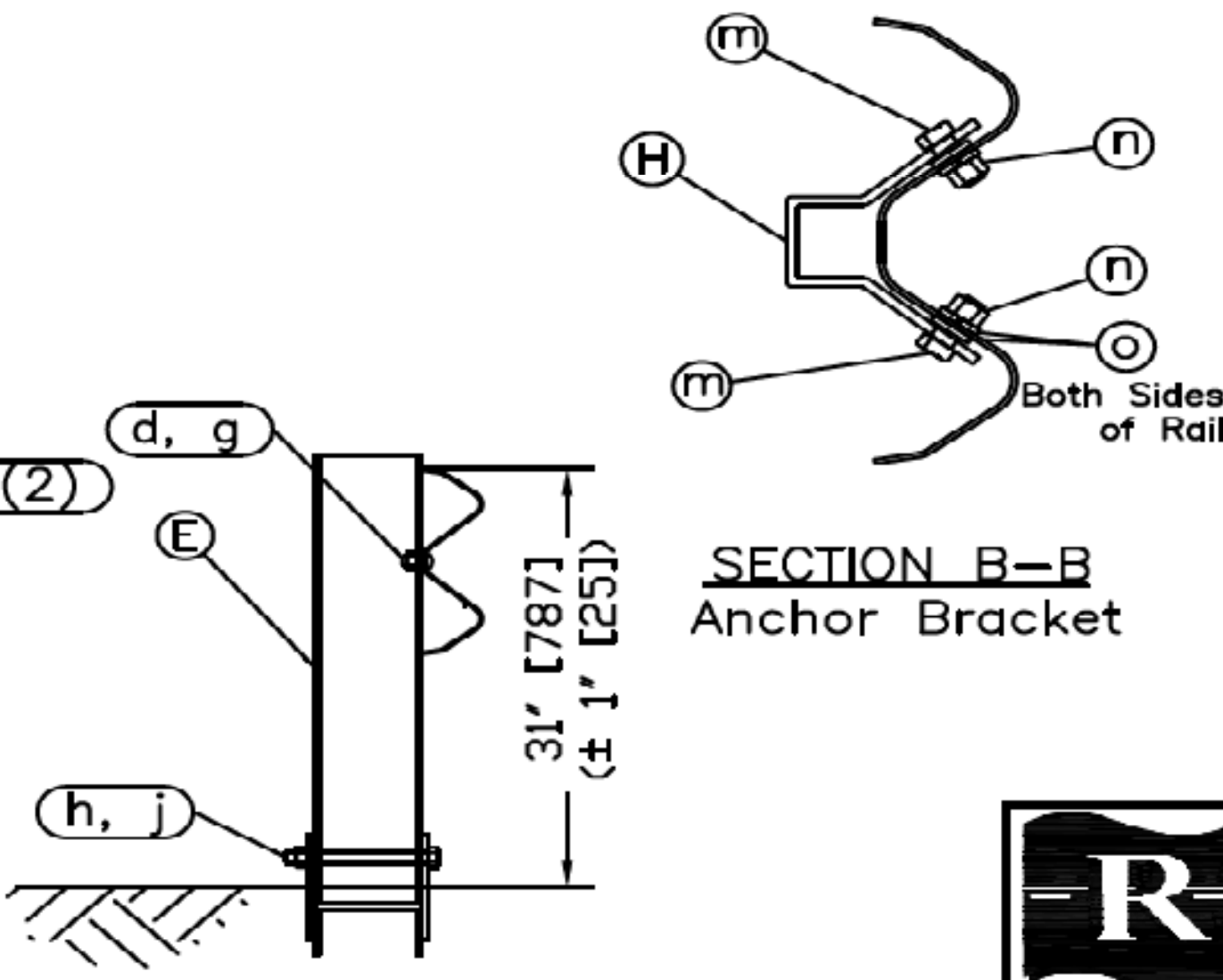
PLANS PREPARED BY:

 DRMP, INC.
 4235 SOUTH STREAM BLVD., SUITE 150
 CHARLOTTE, NC 28217
 NC LICENSE NO. C-2213 (704) 332-2289



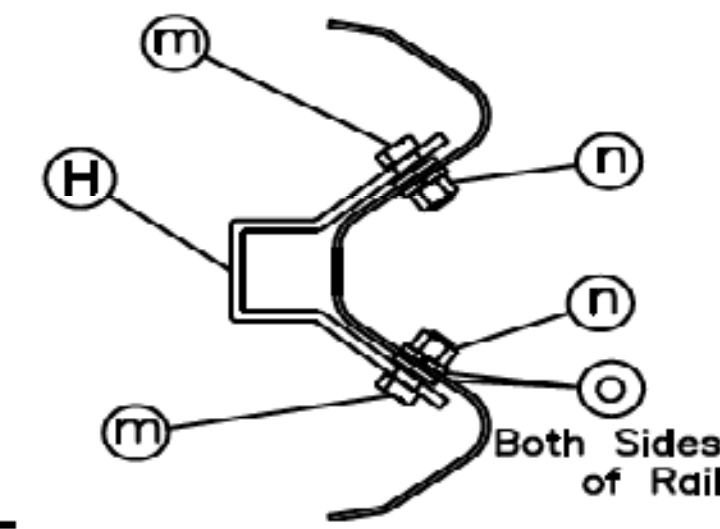
Post #1 Connection Detail



Impact Head Connection Detail




SECTION A-A
Post #2



SECTION B-B
Anchor Bracket

ITEM	QTY	BILL OF MATERIALS	ITEM NO.
A	1	IMPACT HEAD	MS3000
B	1	W-BEAM GUARDRAIL END SECTION, 12 Ga.	SF1303
C	1	FIRST POST TOP (6X6X1/2" Tube)	MTPHP1A
D	1	FIRST POST BOTTOM (6" W6X15)	MTPHP1B
E	1	SECOND POST ASSEMBLY TOP	UMP2A
F	1	SECOND POST ASSEMBLY BOTTOM	HP2B
G	1	BEARING PLATE	E750
H	1	CABLE ANCHOR BOX	S760
J	1	BCT CABLE ANCHOR ASSEMBLY	E770
K	1	STRUT	MS785
L	6	6x9 (6x8.5) STEEL POST	P621
M	6	RECYCLED PLASTIC BLOCK OR EQUIV.	CBSP-14
N	1	W-BEAM MGS RAIL SECTION (9'-4 1/2")	G12025
O	2	W-BEAM MGS RAIL SECTION (12'-6")	G1203A
HARDWARE (ALL DIMENSIONS IN INCHES)			
a	2	5/16 x 1 HEX BOLT GRD 5	B5160104A
b	4	5/16 WASHER	W0516
c	2	5/16 HEX NUT	N0516
d	25	5/8 Dia. x 1 1/4 SPLICE BOLT (POST #2)	B580122
e	2	5/8 Dia. x 9 HEX BOLT A449	B580904A
f	3	5/8 WASHER	W050
g	33	5/8 Dia. H.G.R. NUT	N050
h	1	3/4 Dia. x 8 1/2 HEX BOLT GRD A449	B340854A
j	1	3/4 Dia. HEX NUT	N030
k	2	1 ANCHOR CABLE HEX NUT	N100
l	2	1 ANCHOR CABLE WASHER	W100
m	8	1/2 RSI SHOULDER BOLT W/WASHER	SB12A
n	8	1/2 STRUCTURAL NUT	N012A
o	8	1/2 STRUCTURAL WASHER	W012A
p	1	BEARING PLATE RETAINER TIE	CT-100ST
q	6	5/8" x 10" H.G.R. BOLT	B581002

- GENERAL NOTES:**
- All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
 - The lower sections of the Posts 1&2 shall not protrude more than 4 in [100] above the ground (measured along a 5' [1.5m] cord longitudinal to the system). Site grading may be necessary to meet this requirement.
 - The lower section of the hinged post should not be driven with the upper post attached. If the post is placed in a drilled hole, the backfill material must be satisfactorily compacted to prevent settlement.
 - When competent rock is encountered, a 12" [300] Ø post hole, 20 in. [500] deep cored into the rock surface may be used if approved by the engineer for Posts 1 and/or 2. Granular material will be placed in the bottom of the hole, approximately 2.5" [60] deep to provide drainage. The first and/or second post can be field cut to length, placed in the hole and backfilled with suitable backfill. The soil plate may be trimmed if required.
 - The breakaway cable assembly must be taut. A locking device (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.

	MSKT-SP-MGS Terminal (8" Blocks) Test Level 3	Sheet: 1
		Date: 05/20/17
	Drawing Name: MSKT-SP-MGS8	By: JRR
	Scale: None	Rev: 0

6/22/99

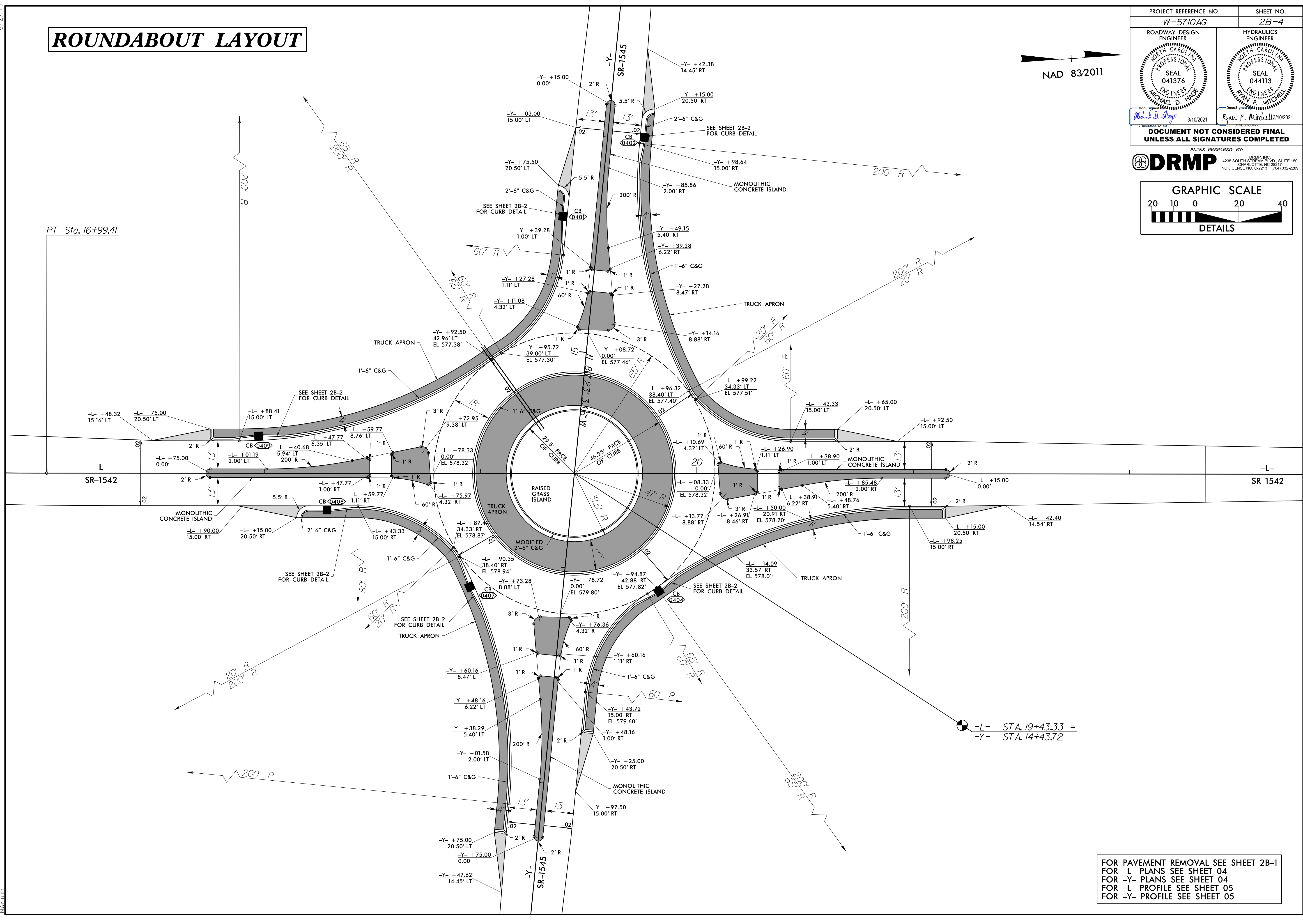
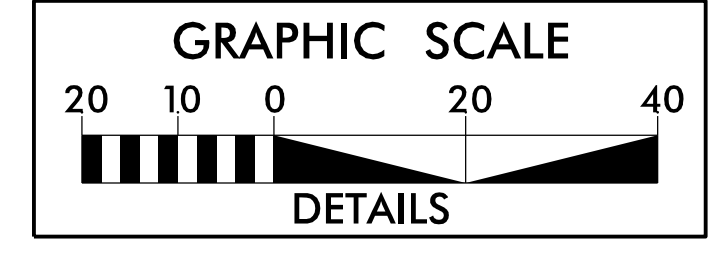
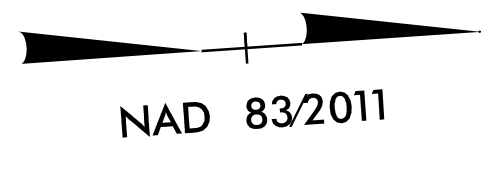
ROUNDAABOUT LAYOUT

PROJECT REFERENCE NO. W-5710AG	SHEET NO. 2B-4
ROADWAY DESIGN ENGINEER SEAL 041376 MICHAEL D. HAZEN	HYDRAULICS ENGINEER SEAL 044113 RYAN P. MITCHELL
DocuSign Michael D. Hazen 3/10/2021	DocuSign Ryan P. Mitchell 3/10/2021

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

PLANS PREPARED BY:
DRMP

DRMP, INC.
4235 SOUTH STREAM BLVD., SUITE 150
CHARLOTTE, NC 28217
NC LICENSE NO. C-2213 (1761) 332-2259



PT. Sta. 16+99.41

SR-1542

SR-1542

SR-1545

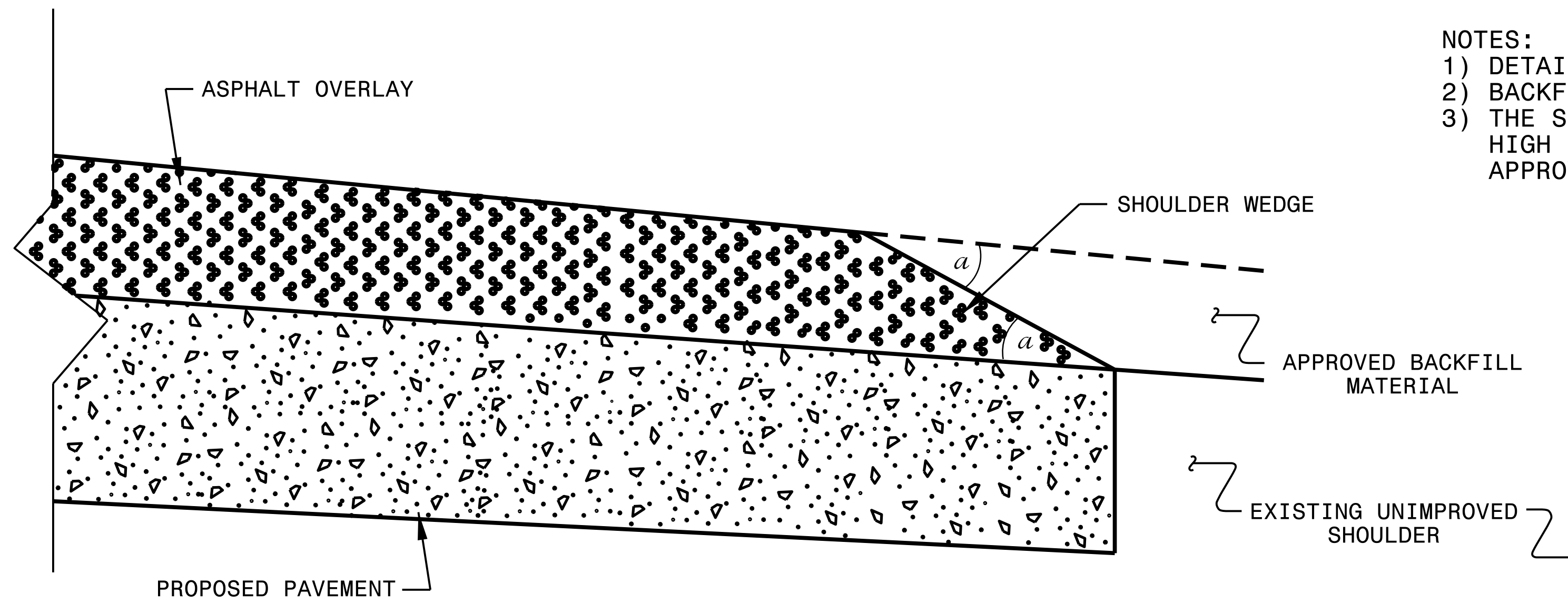
$-L- STA. 19+43.33 =$
 $-Y- STA. 14+43.72$

FOR PAVEMENT REMOVAL SEE SHEET 2B-1
FOR -L- PLANS SEE SHEET 04
FOR -Y- PLANS SEE SHEET 04
FOR -L- PROFILE SEE SHEET 05
FOR -Y- PROFILE SEE SHEET 05

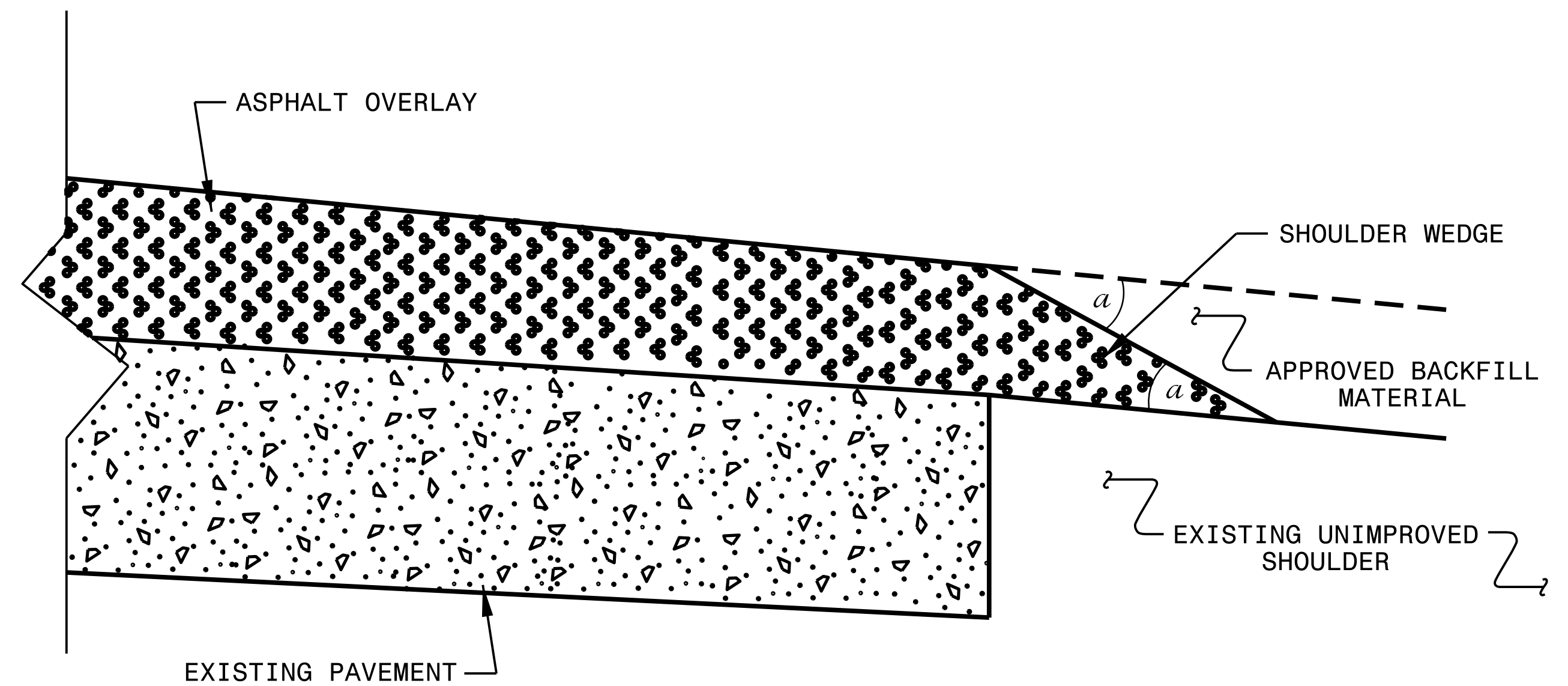
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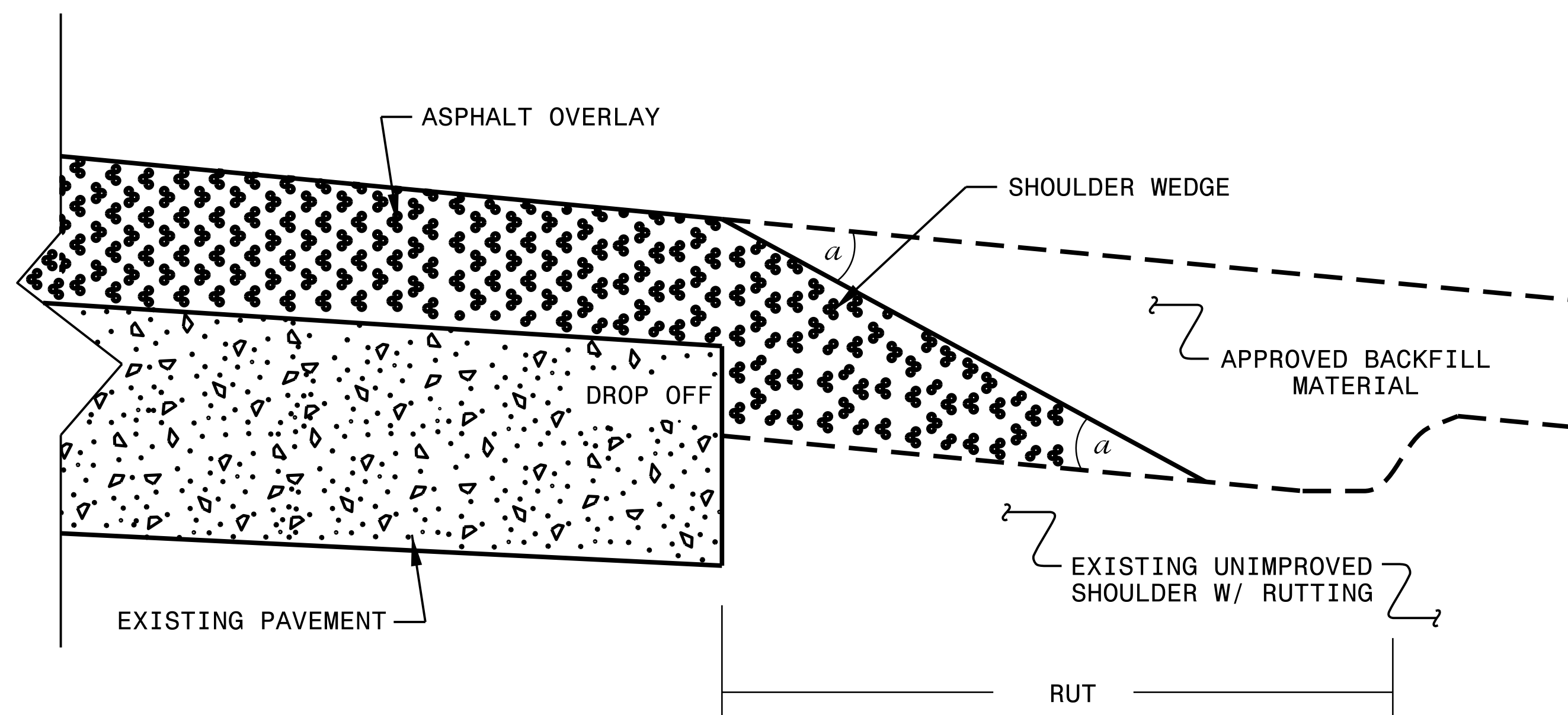
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ Widening or
 with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SHOULDER WEDGE DETAILS			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 2/2/16		
CHECKED BY:	DATE:		
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn			

30-MAR-2016 07:20
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COMPUTED BY: JDC DATE: 01/20/2020
 CHECKED BY: CPB DATE: 02/13/2020

PROJECT NO. W-5710AG SHEET NO. 3B-1

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

GUARDRAIL SUMMARY

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS							
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	Type III	B-77	GREU, TL-3	GREU, TL-2	CAT-1	AT-1	Type III SC	B-77 SC	G	NG											
-L-	20+65.15	23+16.16	RT	250			22+20.03	23+32.82	8	11	50	50	1	1				2										366.14							
-L-	21+01.23	23+20.00	LT	218.75			21+15.00	23+35.00	8	11	50	6.25	1	0				1		1								424.94							
-Y-	15+78.40	19+03.36	RT	325			16+62.12	16+72.43	6	9	50	50	1	1				2									460.32								
-Y-	15+91.48	19+10.12	LT	318.75			16+67.59	16+77.74	6	9	50	6.25	1	0				1		1							403.83								
SUBTOTAL				1112.5																															
LESS ANCHOR DEDUCTIONS																																			
GREU-350, TL-3					6 @ 50' =	-300																													
CAT-1					2 @ 6.25' =	-12.5																													
TOTAL SAY				800	800																														

SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- STA. 15+00.00	-L- STA. 18+50.00	540	138		402
-L- STA. 20+50.00	-L- STA. 23+50.00	301	20		281
Roundabout:					
-L- STA. 18+50.00	-L- STA. 20+50.00		1386	1386	
-Y- STA. 11+00.00	-Y- STA. 13+50.00	181	62		119
-Y- STA. 15+50.00	-Y- STA. 17+50.00	345	102		243
SUBTOTALS:		1367	1708	1386	1043
SUBTOTALS:					
ADDITIONAL UNDERCUT					
WASTE IN LIEU OF BORROW			350	-1043	-1043
SHOULDER BORROW					
PROJECT TOTALS:		1367	2058	343	0
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				17	
PROJECT TOTALS:		1367	2058	360	0
GRAND TOTALS:		1367		360	
SAY:		1400		400	

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Shoulder Borrow, 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.

Note: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

RIGHT OF WAY SUMMARY

PARCEL NO.	PROPERTY OWNER NAMES	TOTAL AREA (AC)	AREA TAKEN (SQ. FT)	AREA REMAINING RT (AC)	AREA REMAINING LT (AC)	TEMP. CONST. EASE. (SF)	PERM. DRAIN. EASE. (SF)	PERM. UTIL. EASE.	TEMP. DRAIN. EASE.
1	MICHAEL E SNYDER TRUSTEE MICHAEL E SNYDER REVOCABLE TRUST	-	-	-	-	-	-	-	-
2	MICHAEL E SNYDER TRUSTEE MICHAEL E SNYDER REVOCABLE TRUST	-	-	-	-	-	-	-	-

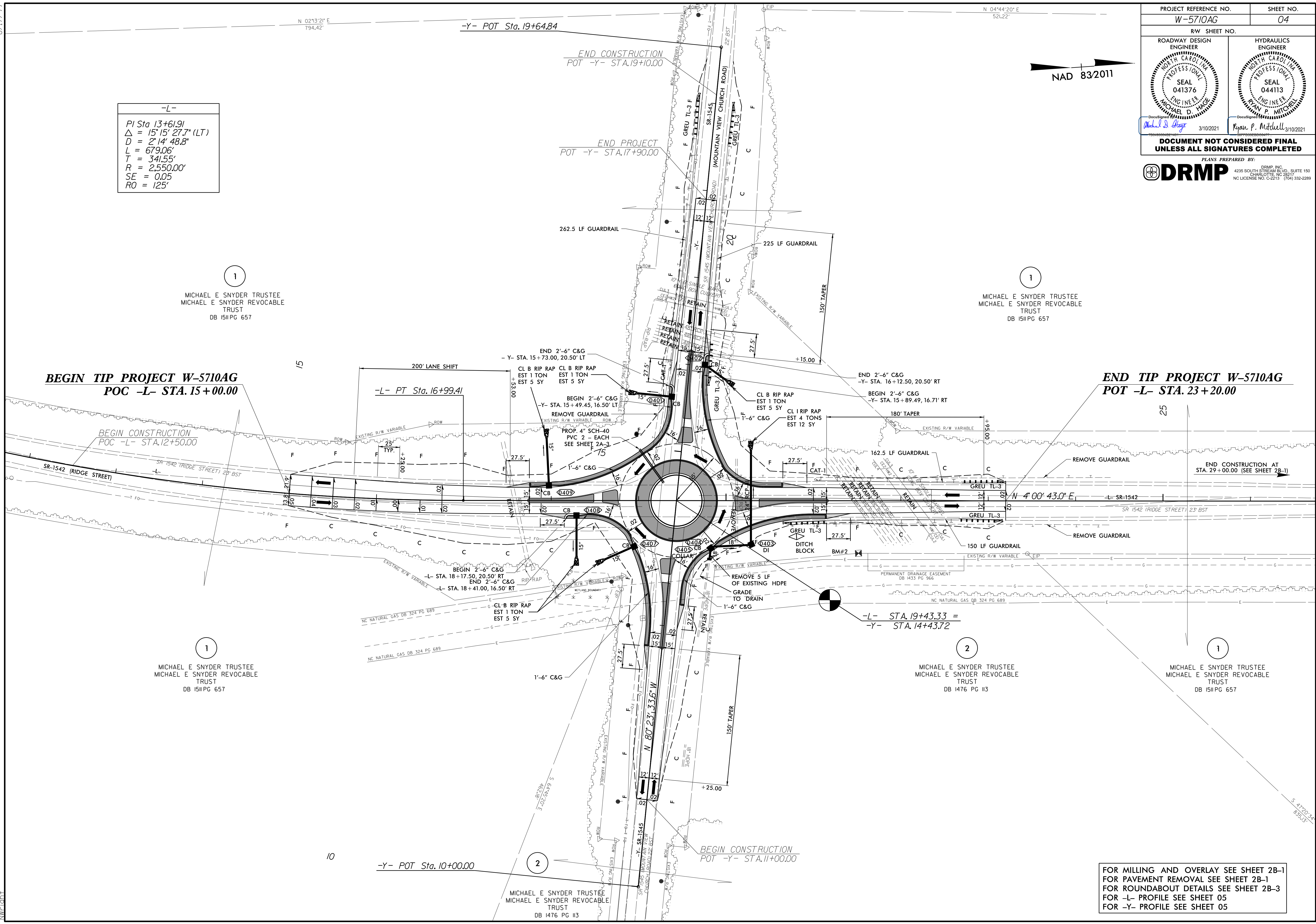
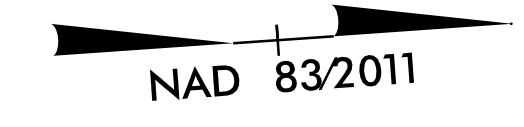
PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	16+50	18+75	CL	1350.1			
-L-	20+12	23+20	CL	1279.3			
-Y-	11+00	17+90	CL	2785			
TOTAL:				5414.4			
SAY:				5420			

PROJECT REFERENCE NO. W-5710AG	SHEET NO. 04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SEAL 041376 MICHAEL D. HUCK	HYDRAULICS ENGINEER SEAL 044113 RYAN P. MITCHELL
<i>Michael D. Huck</i> 3/10/2021	<i>Ryan P. Mitchell</i> 3/10/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
PLANS PREPARED BY: DRMP	

-L-
 PI Sta 13+61.91
 $\Delta = 15' 15" 27.7" (LT)$
 $D = 2' 14" 48.8"$
 $L = 679.06'$
 $T = 341.55'$
 $R = 2,550.00'$
 $SE = 0.05$
 $RO = 125'$



1
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1511 PG 657

1
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1511 PG 657

1
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1511 PG 657

2
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1476 PG 113

1
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1511 PG 657

2
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1476 PG 113

FOR MILLING AND OVERLAY SEE SHEET 2B-1
 FOR PAVEMENT REMOVAL SEE SHEET 2B-1
 FOR ROUNDABOUT DETAILS SEE SHEET 2B-3
 FOR -L- PROFILE SEE SHEET 05
 FOR -Y- PROFILE SEE SHEET 05

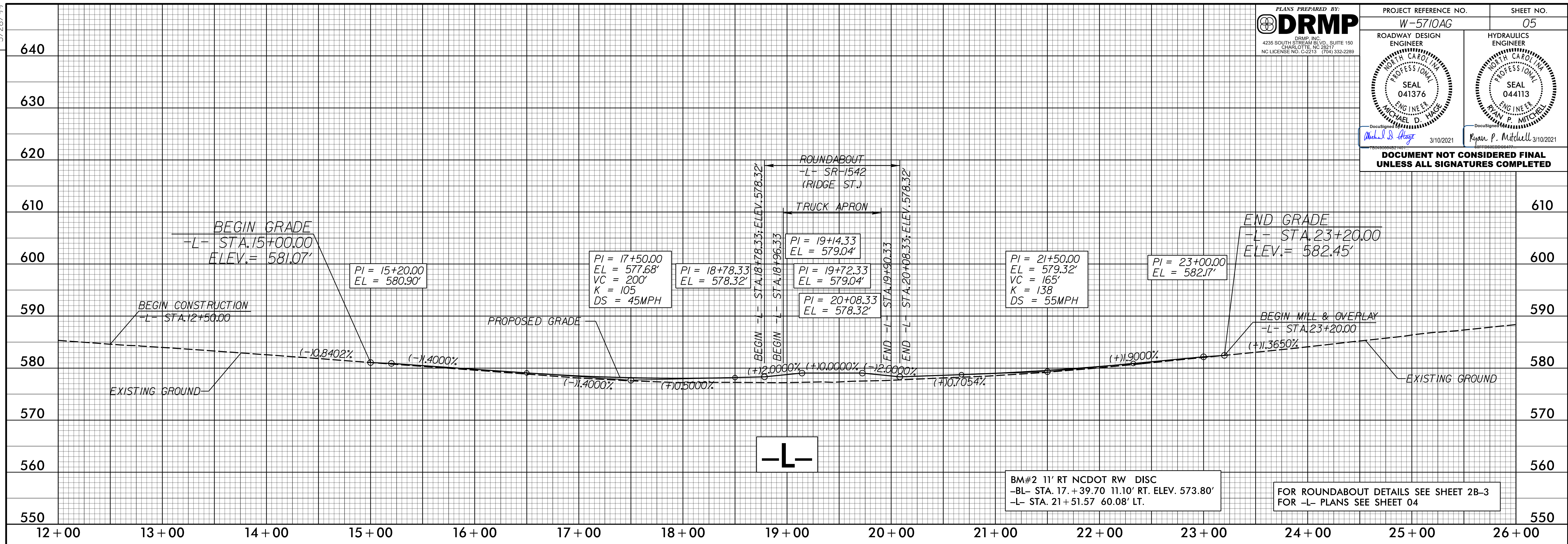
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5/26/19

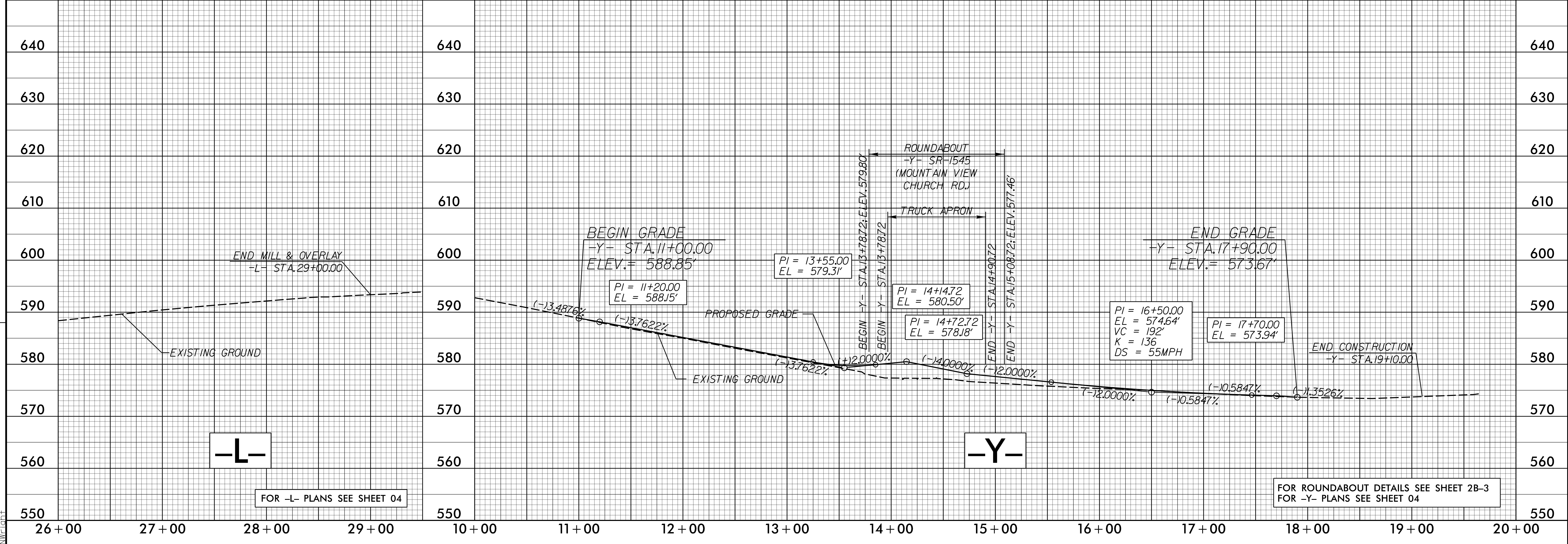


PROJECT REFERENCE NO. W-5710AG	SHEET NO. 05
ROADWAY DESIGN ENGINEER SEAL 041376 MICHAEL D. HIGGINS	HYDRAULICS ENGINEER SEAL 044113 RYAN P. MITCHELL
<i>Michael D. Higgins</i> 3/10/2021	<i>Ryan P. Mitchell</i> 3/10/2021

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



REVISIONS




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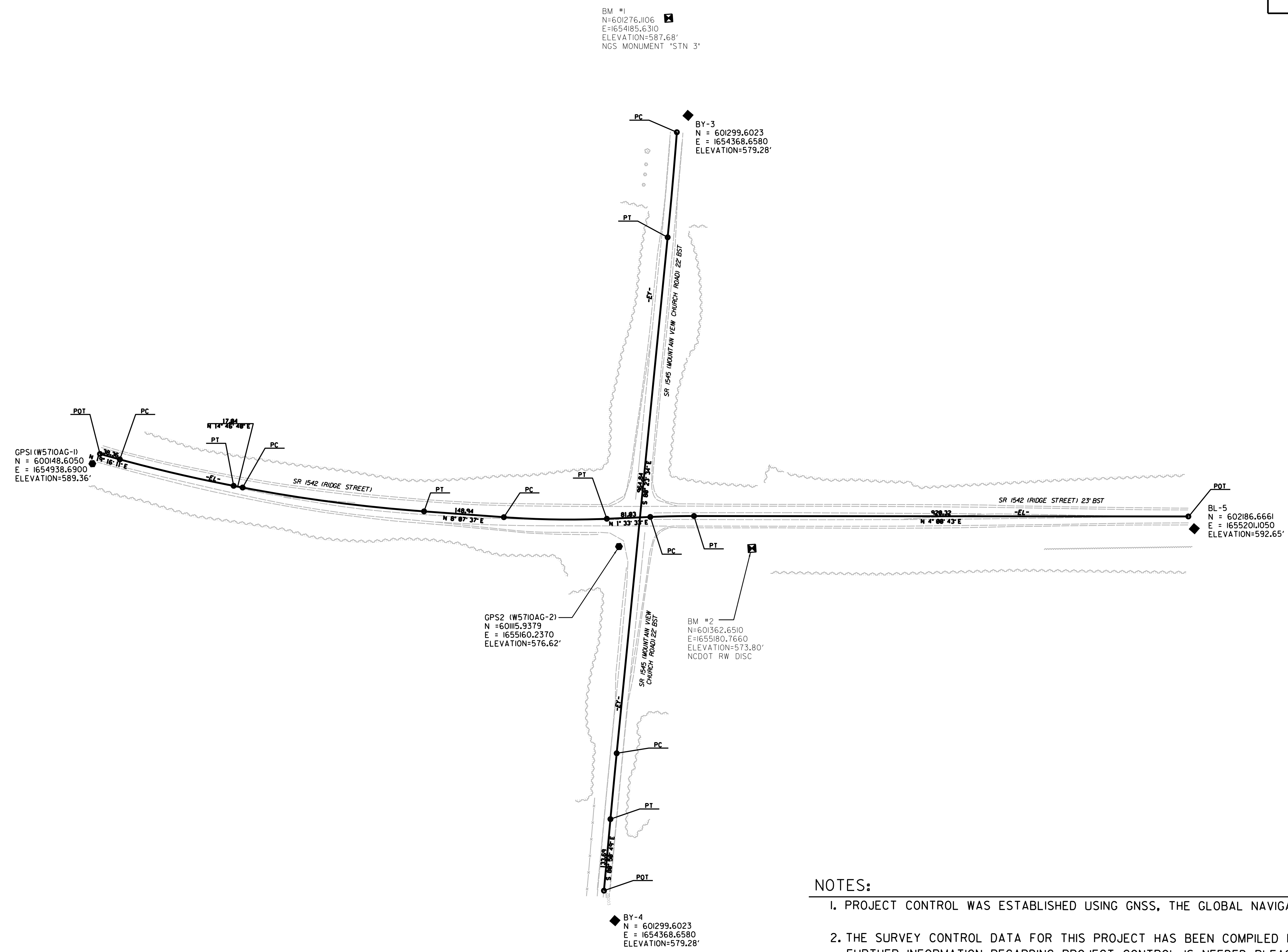
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PROJECT REFERENCE NO.	SHEET NO.
W-5710AG	RW02C-1
Location and Surveys	
	
<small>ESP Associates, Inc. P.O. Box 2020 Charlotte, NC 28241 3475 Lakeside Blvd. Fort Mill, SC 29708 704-505-4949 (NC) 803-302-2448 (SC) www.essociates.com</small>	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



- NOTES:**
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.


6/2/09

REVISIONS

I7-DEC-2018 12:51
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pbe:truce AT ESPS2040514

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
W-5710AG	RW02C-2
Location and Surveys	
	
<small>ESP Associates, Inc. P.O. Box 2030 Charlotte, NC 28241 3475 Lakeside Blvd. Fort Mill, SC 29708 704-525-4949 (NC) 803-802-2440 (SC) www.essociates.com</small>	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
GPS1		W5710AG-1	600148.6050	1654938.6900	589.36
GPS2		W5710AG-2	601115.9379	1655160.2370	576.62
BL5		BL-5	602186.6661	1655201.1050	592.65

BY	POINT	DESC.	NORTH	EAST	ELEVATION
BY3		BY-3	601299.6023	1654368.6580	579.28
B2		W5710AG-2	601115.9379	1655160.2370	576.62
BY4		BY-4	601060.2562	1655854.2160	598.97

 BM#1 ELEVATION = 587.68
 N 601276 E 1654186
 NGS MONUMENT "STN 3"

 BM#2 ELEVATION = 573.80
 N 601363 E 1655181
 NCDOT RW DISC

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. W-5710AG	SHEET NO. RW02C-3
Location and Surveys	
<div style="display: inline-block; font-size: 8px; vertical-align: middle; margin-left: 5px;"> ESP Associates, Inc. P.O. Box 2050 Charlotte, NC 28241 3475 Lakeshore Blvd. Fort Mill, SC 29708 703-503-4949 (NC) 803-502-2449 (SC) www.espsites.com </div>	

EL

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	600163.951	1654921.569							
LINE			N 19°16'10.6" E	38.36					
PC	600200.162	1654934.228							
CURVE			N 17°01'25.5" E	217.48	04°29'30.2"(LT)	02°03'53.3"	217.54	108.82	2774.86
PT	600408.113	1654997.900							
LINE			N 14°46'40.4" E	17.04					
PC	600424.593	1655002.247							
CURVE			N 11°27'08.9" E	340.65	06°39'03.0"(LT)	01°57'04.7"	340.84	170.61	2936.28
PT	600758.460	1655069.885							
LINE			N 08°07'37.4" E	148.94					
PC	600905.900	1655090.939							
CURVE			N 04°50'35.2" E	191.73	06°34'04.3"(LT)	03°25'25.3"	191.83	96.02	1673.50
PT	601096.945	1655107.127							
LINE			N 01°33'33.1" E	81.03					
PC	601177.949	1655109.332							
CURVE			N 02°47'08.0" E	81.33	02°27'09.9"(RT)	03°00'56.0"	81.34	40.67	1900.00
PT	601259.182	1655113.284							
LINE			N 04°00'43.0" E	920.32					
POT	602177.243	1655177.673							

EY

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	601276.737	1654398.552							
CURVE			S 81°01'16.8" E	196.31	01°15'26.5"(RT)	00°38'25.7"	196.32	98.16	8945.79
PT	601246.099	1654592.458							
LINE			S 80°23'33.6" E	964.84					
PC	601085.073	1655543.764							
CURVE			S 80°37'11.1" E	123.09	00°27'15.1"(LT)	00°22'08.4"	123.09	61.55	15527.88
PT	601065.010	1655665.212							
LINE			S 80°50'48.7" E	133.69					
POT	601043.744	1655797.197							

REVISIONS

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
W-5710AG	RW02D-1
Location and Surveys	
<div style="font-size: 8px; display: inline-block; vertical-align: middle; margin-left: 5px;"> ESP Associates, Inc. P.O. Box 2030 Charlotte, NC 28241 3475 Lakeshore Blvd. Fort Mill, SC 29708 704-503-4949 (NC) 803-502-2440 (SC) www.espsociates.com </div>	

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	600233.465	1654945.871							
LINE			N 19°16'10.6" E	20.36					
PC	600252.681	1654952.589							
CURVE			N 11°38'26.8" E	677.05	15°15'27.7"(LT)	02°14'48.8"	679.06	341.55	2550.00
PT	600915.807	1655089.201							
LINE			N 04°00'43.0" E	1264.53					
POT	602177.243	1655177.673							

POINT	N	E	BEARING	DIST
POT	601085.073	1655543.764		
LINE			N 80°23'33.6" W	964.84
POT	601246.099	1654592.458		


NOTES:

- I. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/09

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 L:\dpc\cd\00-
 A:\ESP\5710AG\14
 17 DEC 2008 12:51
 L:\dpc\cd\00-
 A:\ESP\5710AG\14
 17 DEC 2008 12:51
 L:\dpc\cd\00-
 A:\ESP\5710AG\14

PROJECT REFERENCE NO. <i>W-5710AG</i>	SHEET NO. <i>PMP-01</i>
APPROVED: <i>Lisa M. Moon</i> <small>DocuSigned by: Lisa M. Moon 56CE88B83D0421...</small>	
DATE: 3/10/2021	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
STANLY COUNTY**
*LOCATION: INTERSECTION OF SR 1542 (RIDGE STREET) AND
SR 1545 (MOUNTAIN VIEW CHURCH ROAD)*

CONTRACT: 44856.1.35 T.I.P.: W-5710AG

**PAVEMENT
MARKING SCHEDULE**

SYMBOL	DESCRIPTION
<u>THERMOPLASTIC (4", 90 MIL)</u>	
TA	WHITE EDGELINE
TB	YELLOW EDGE LINE
TI	YELLOW DOUBLE CENTER LINE
<u>THERMOPLASTIC (8", 90 MIL)</u>	
T17	3FT.-3FT./SP WHITE MINISKIP
TN	WHITE GORELINE
<u>THERMOPLASTIC (12", 90 MIL)</u>	
TU	WHITE DIAGONAL
TV	YELLOW DIAGONAL
<u>THERMOPLASTIC SYMBOLS (90 MIL)</u>	
UN	24" X 36" YIELD LINE TRIANGLE
<u>PERMANENT RAISED PAVEMENT MARKERS</u>	
MA	YELLOW & YELLOW
MC	CRYSTAL & RED

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
1205.08	PAVEMENT MARKINGS - SYMBLS AND WORD MESSAGE
1205.09	PAVEMENT MARKINGS - PAINTED ISLAND
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1250.01	RAISED PAVEMENT MARKERS- INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS- PERMANENT AND TEMPORARY

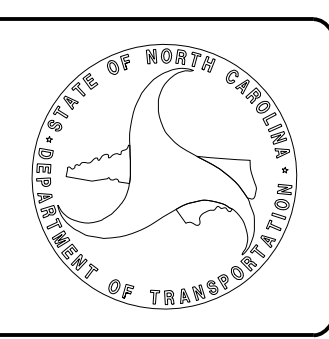
GENERAL NOTES

- 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:

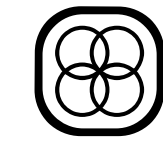
ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	PERMANENT
 - B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
 - C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
 - I) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED 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.

PLAN PREPARED FOR: N.C.D.O.T. DIVISION 10

NCDOT CONTACT: DONALD GRIFFITH
DM-STIP PROJECT MANAGER



Plans Prepared By:

 **DRMP**

DRMP, Inc.
8000 Regency Parkway, Suite 110
Cary, NC 27519
NC License No. C-2213 (819) 650-1038

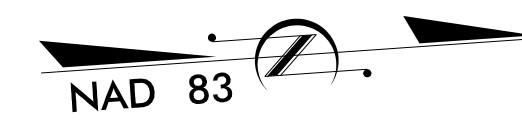
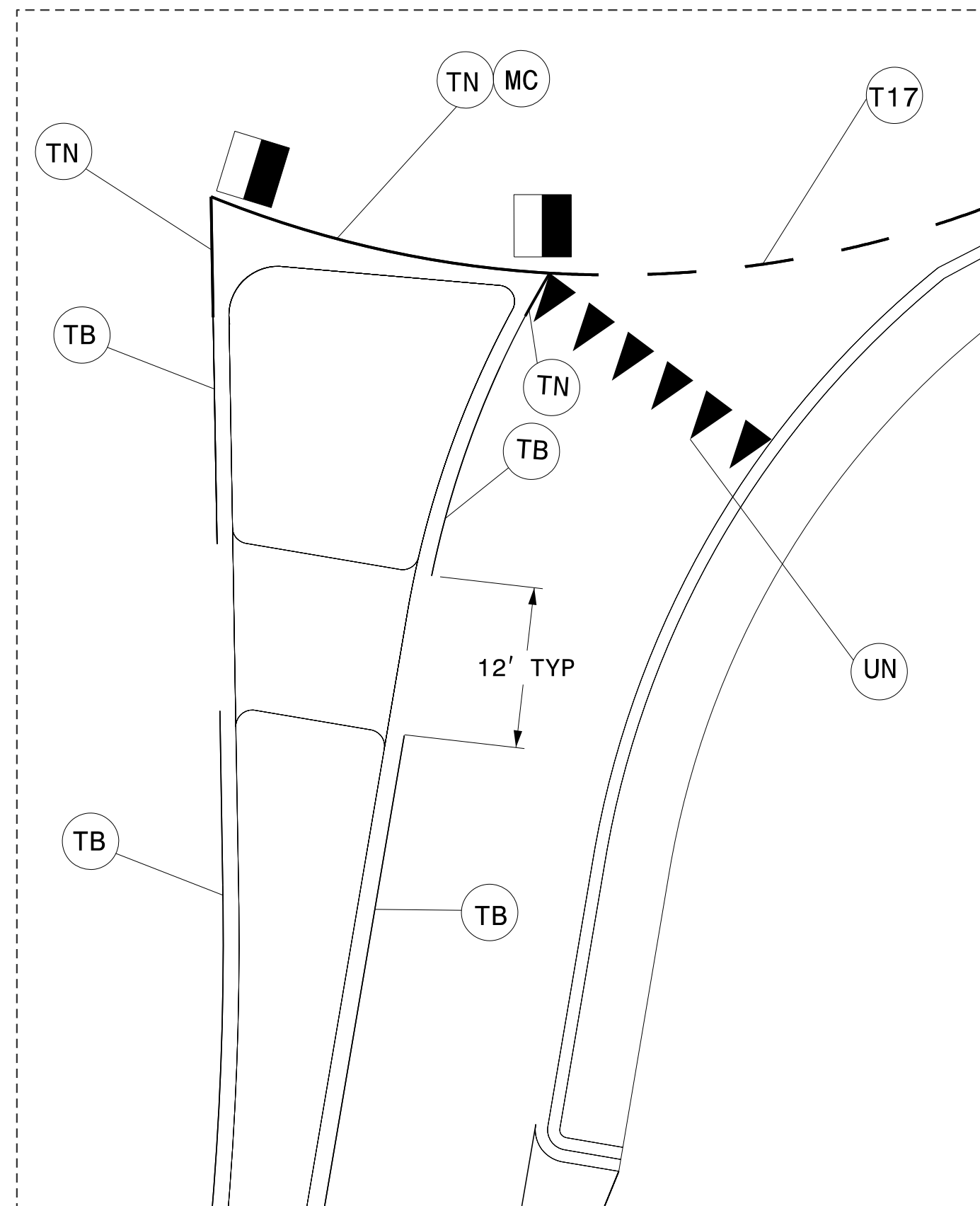
LISA MOON, PE PROJECT ENGINEER
DARREN WHITE PROJECT DESIGN ENGINEER

INDEX

SHEET NO.	DESCRIPTION
PMP -01	TITLE SHEET
PMP -02 & 03	PAVEMENT MARKING PLANS

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TYPICAL ROUNDABOUT APPROACH

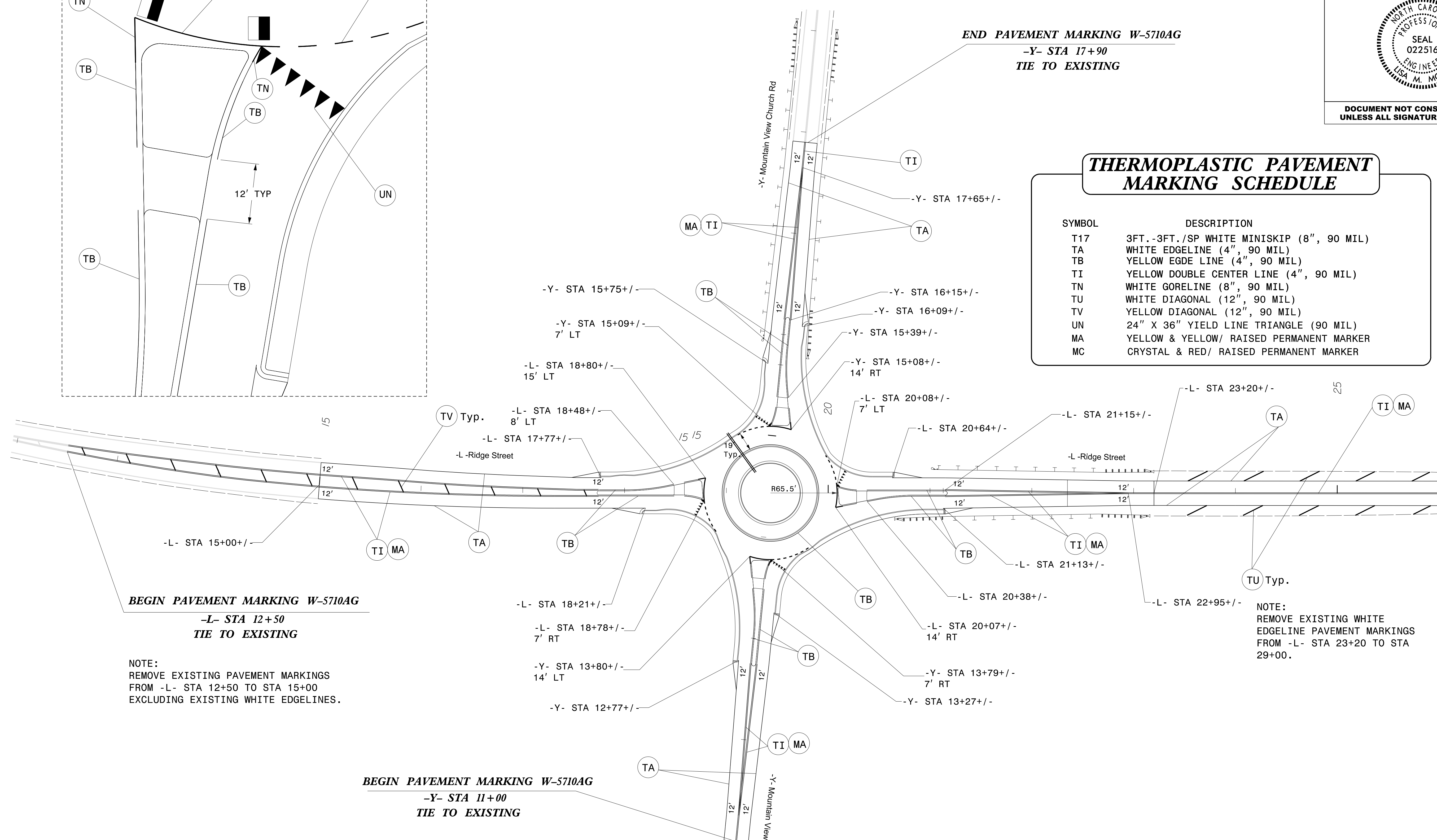


PROJECT REFERENCE NO. W-5710AG	SHEET NO. PMP-02
APPROVED: <i>Lisa M. Moon</i> SRCE5880300421	
DATE: 3/10/2021	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

END PAVEMENT MARKING W-5710AG
-Y- STA 17+90
TIE TO EXISTING

THERMOPLASTIC PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
T17	3FT.-3FT./SP WHITE MINISKIP (8", 90 MIL)
TA	WHITE EDGELINE (4", 90 MIL)
TB	YELLOW EGDE LINE (4", 90 MIL)
TI	YELLOW DOUBLE CENTER LINE (4", 90 MIL)
TN	WHITE GORELINE (8", 90 MIL)
TU	WHITE DIAGONAL (12", 90 MIL)
TV	YELLOW DIAGONAL (12", 90 MIL)
UN	24" X 36" YIELD LINE TRIANGLE (90 MIL)
MA	YELLOW & YELLOW/ RAISED PERMANENT MARKER
MC	CRYSTAL & RED/ RAISED PERMANENT MARKER



BEGIN PAVEMENT MARKING W-5710AG
-L- STA 12+50
TIE TO EXISTING

NOTE:
REMOVE EXISTING PAVEMENT MARKINGS
FROM -L- STA 12+50 TO STA 15+00
EXCLUDING EXISTING WHITE EDGELINES.

BEGIN PAVEMENT MARKING W-5710AG
-Y- STA 11+00
TIE TO EXISTING

NOTE:
REMOVE EXISTING WHITE
EDGELINE PAVEMENT MARKINGS
FROM -L- STA 23+20 TO STA
29+00.

SEE PMP-03
MATCHLINE -L- STA 26+00


3/10/2021
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 Lisa M. Moon

Plans Prepared By:

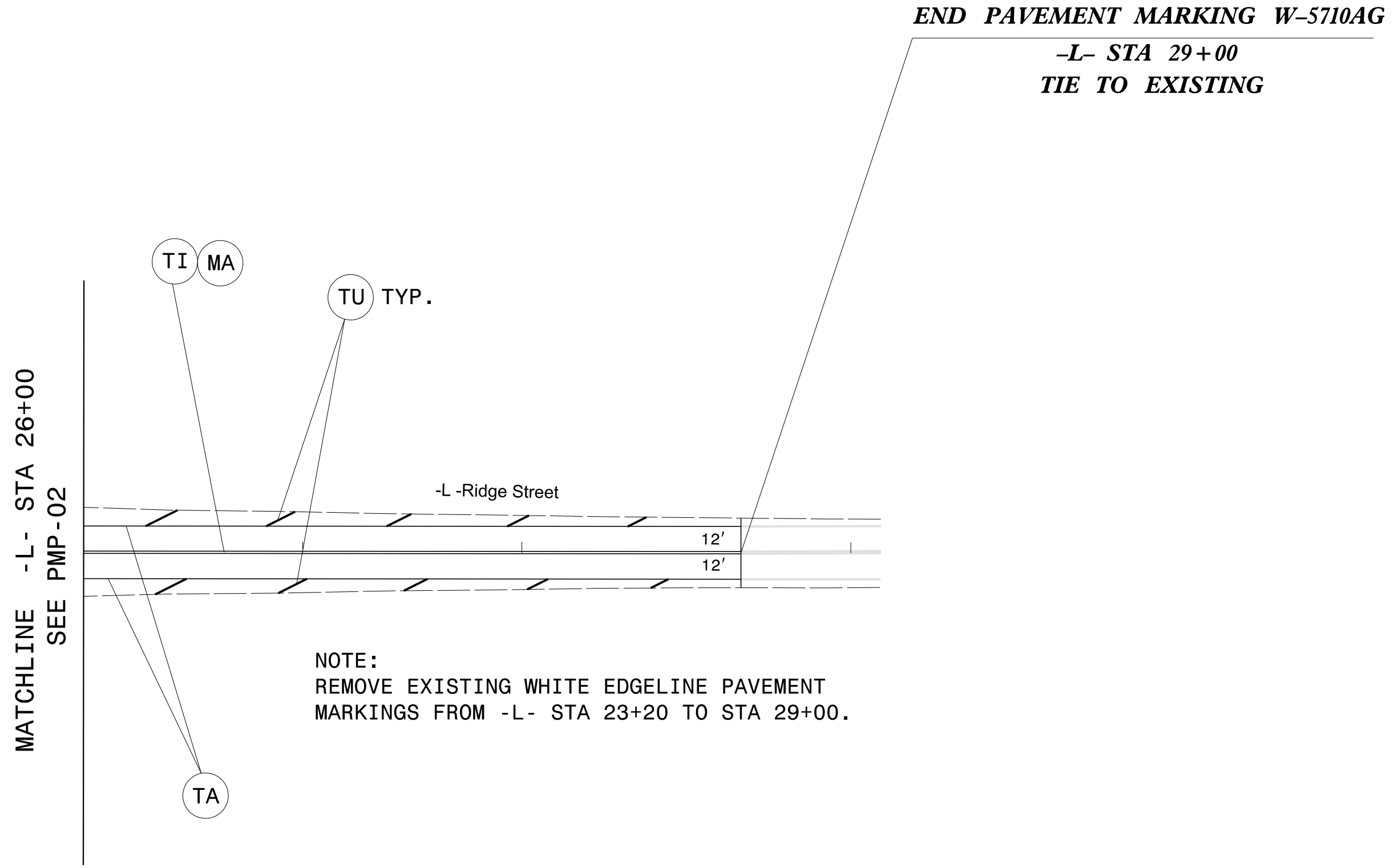
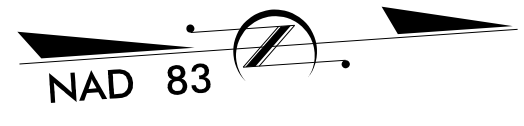
DRMP, Inc.
8000 Regency Parkway, Suite 110
Cary, NC 27518
NC License No. C-2213 (919) 650-1038

PAVEMENT MARKING PLANS

-L- STA 12+50 TO -L- STA 26+00
-Y- STA 11+00 TO -Y- STA 17+90


PROJECT REFERENCE NO. <i>W-5710AG</i>	SHEET NO. <i>PMP-03</i>
APPROVED: <i>Lisa M. Moon</i> <small>DocuSigned by: 58CE588D83D0421...</small>	
DATE: 3/10/2021	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

THERMOPLASTIC PAVEMENT MARKING SCHEDULE	
SYMBOL	DESCRIPTION
TA	WHITE EDGELINE (4", 90MIL)
TI	YELLOW DOUBLE CENTER LINE (4", 90MIL)
TU	WHITE DIAGONAL (12", 90 MIL)
MA	YELLOW & YELLOW/RAISED PERMANENT MARKER



3/10/2021
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 Lisa M. Moon

Plans Prepared By:



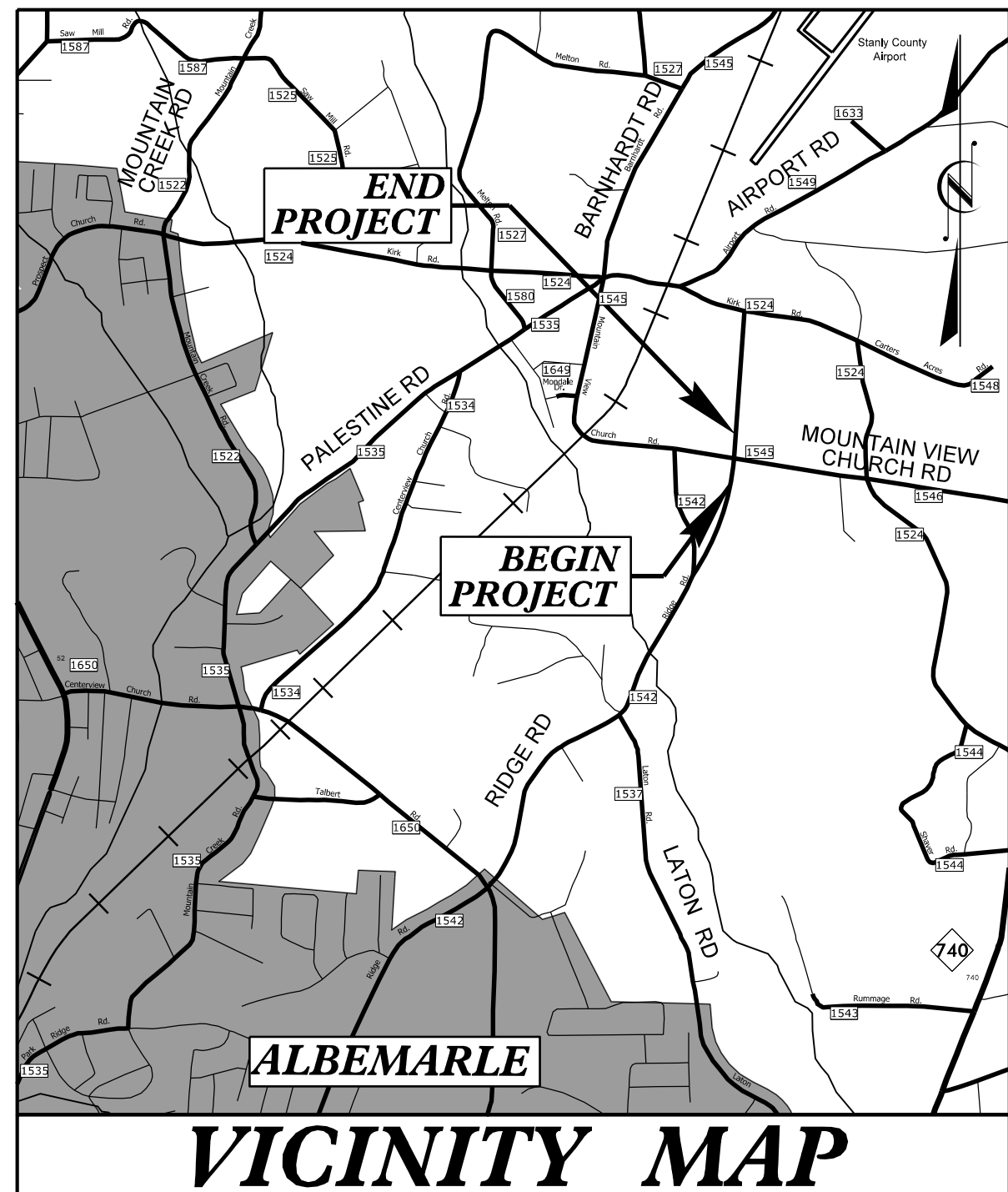
DRMP, Inc.
8000 Regency Parkway, Suite 110
Cary, NC 27518
NC License No. C-2213 (919) 650-1038

PAVEMENT MARKING PLANS

-L- STA 26+00 TO -L- STA 29+00

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5710AG	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44856.1.35	NA	P.E.	

TIP PROJECT: W-5710AG

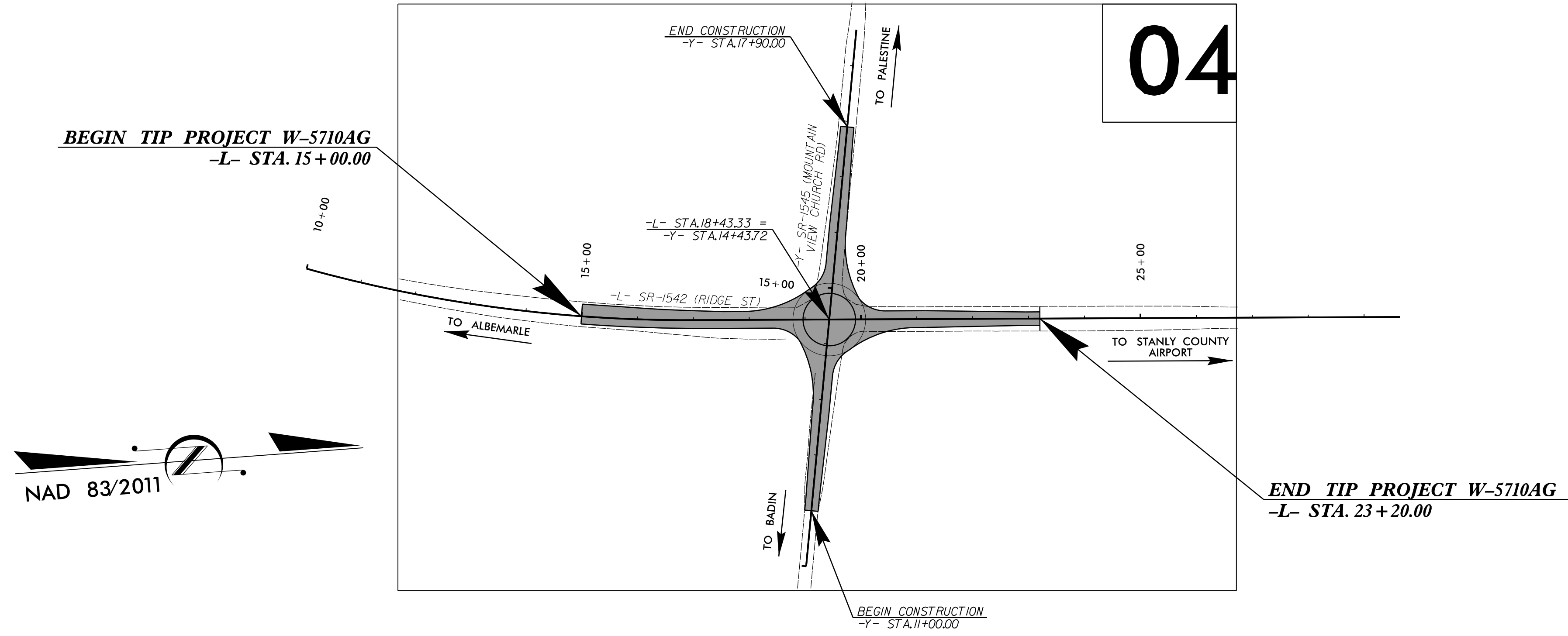


NOT TO SCALE

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

**LOCATION: INTERSECTION OF SR-1542 (RIDGE STREET)
AND SR-1545 (MOUNTAIN VIEW CHURCH ROAD)
IN STANLY COUNTY**

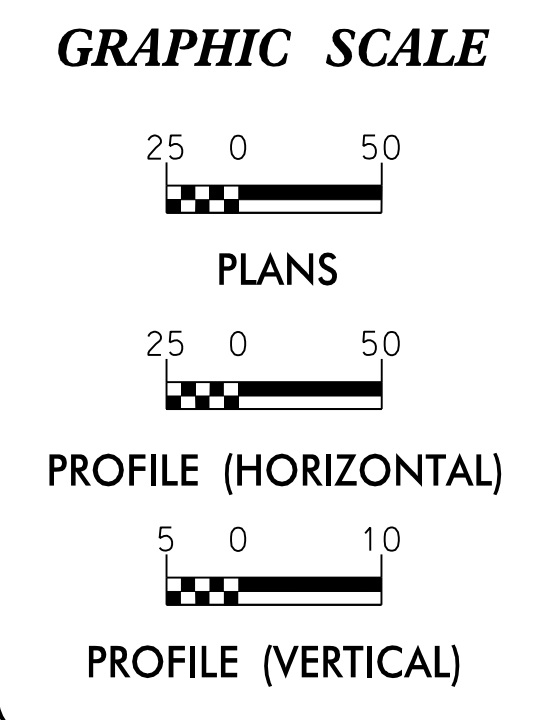
**TYPE OF WORK: GRADING, PAVING, DRAINAGE, C&G,
THERMOPLASTIC PAVEMENT MARKINGS,
TRAFFIC CONTROL, AND EROSION CONTROL**



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

EROSION AND SEDIMENT CONTROL MEASURES

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



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

Plans Prepared By:

DRMP
DRMP INC.
8000 REGENCY PARKWAY, SUITE 110
CARY, NC 27518
NC LICENSE NO. C-2213 (919) 650-1038

Designed by:
ADAM J. DAVIS, P.E. **4111**
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:
THOMAS A. SMITH, CPESC

Roadway Standard Drawings

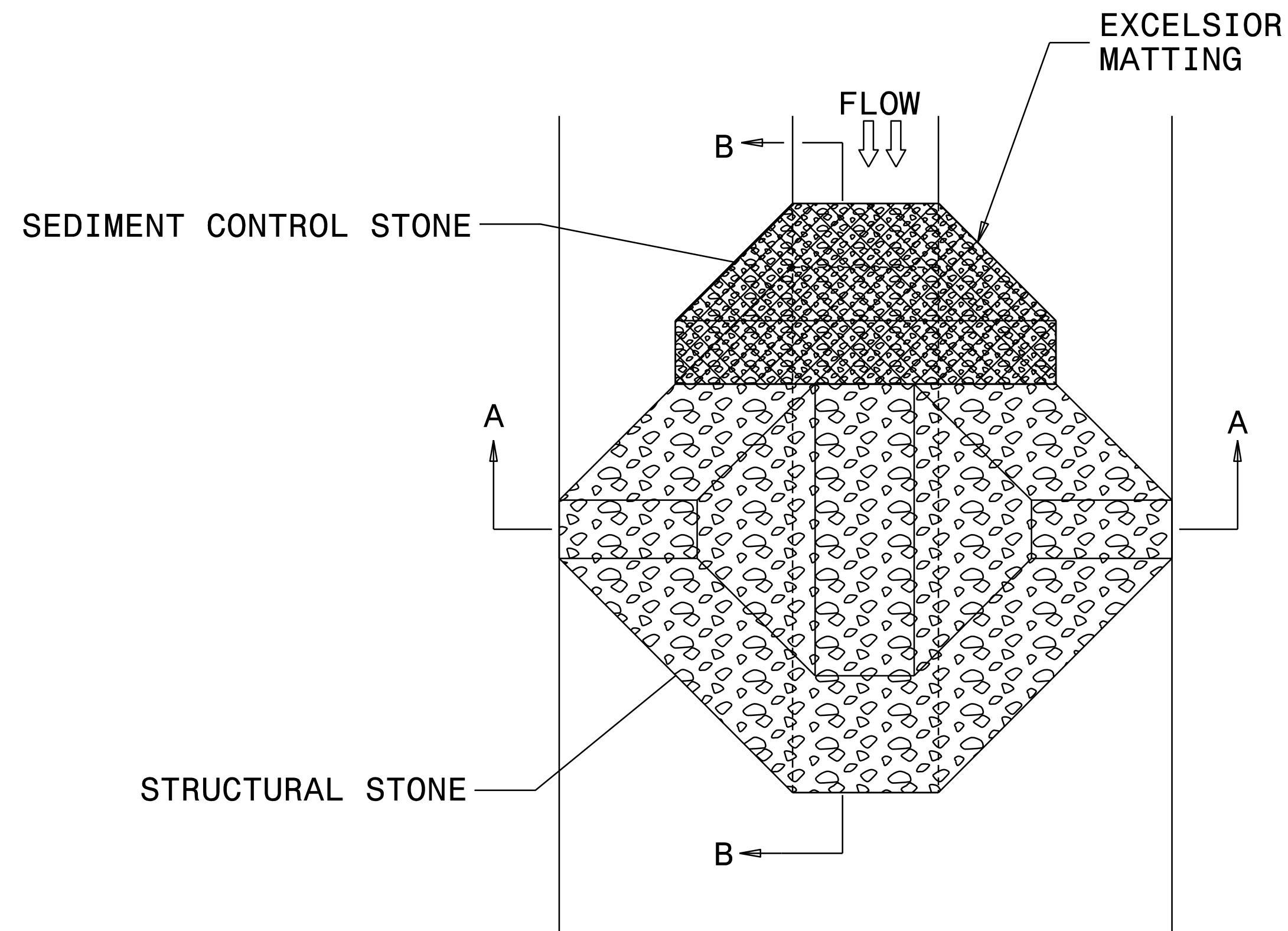
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type J
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
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 J
1630.05 Temporary Diversion	1640.01 Coir Fiber Jaffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

01-MAR-2020/1406
ADAM J. DAVIS
C:\Users\ADAVIS\OneDrive\Documents\Design\PSH\W5710AG-EC_tsh.dgn

PROJECT REFERENCE NO. W-5710AG	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN

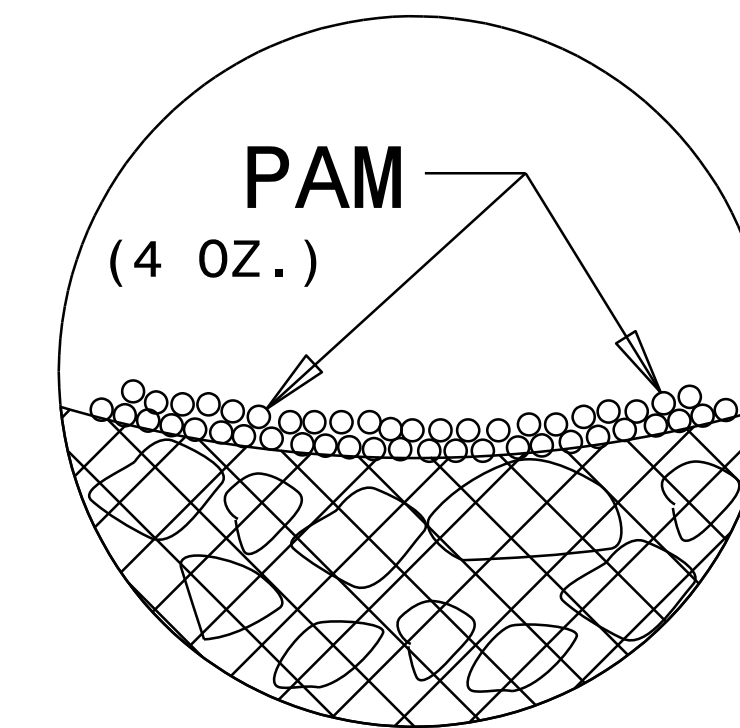
NOTES:

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

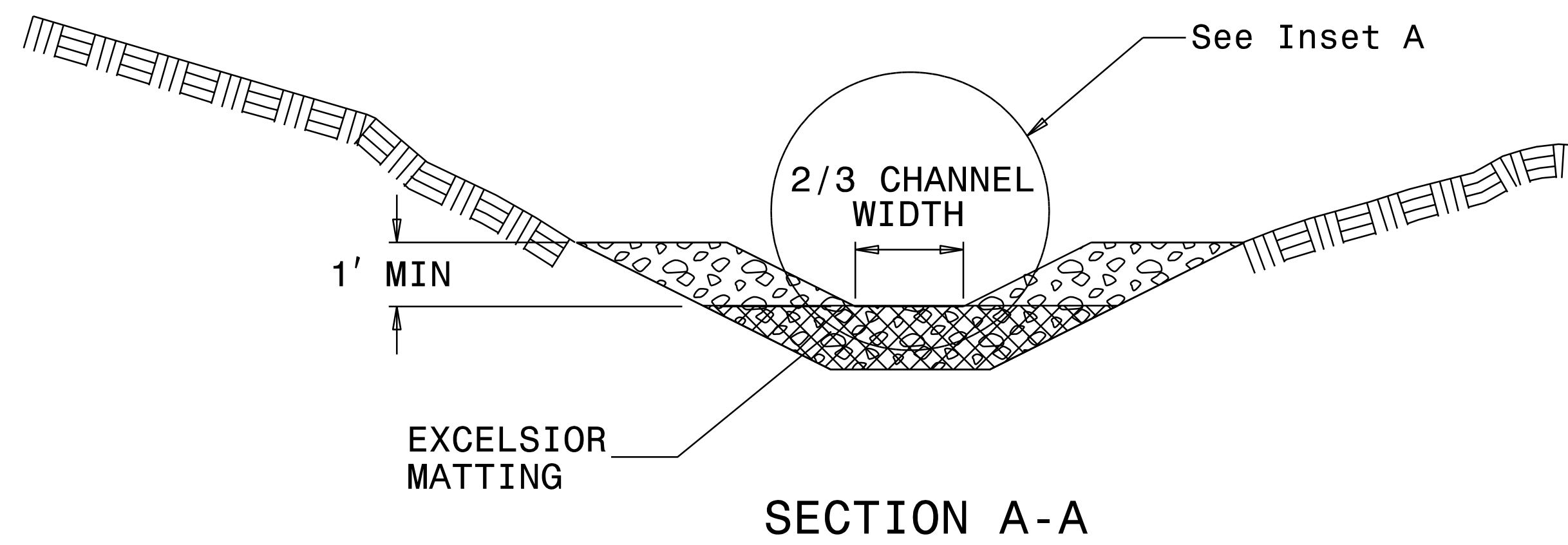
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

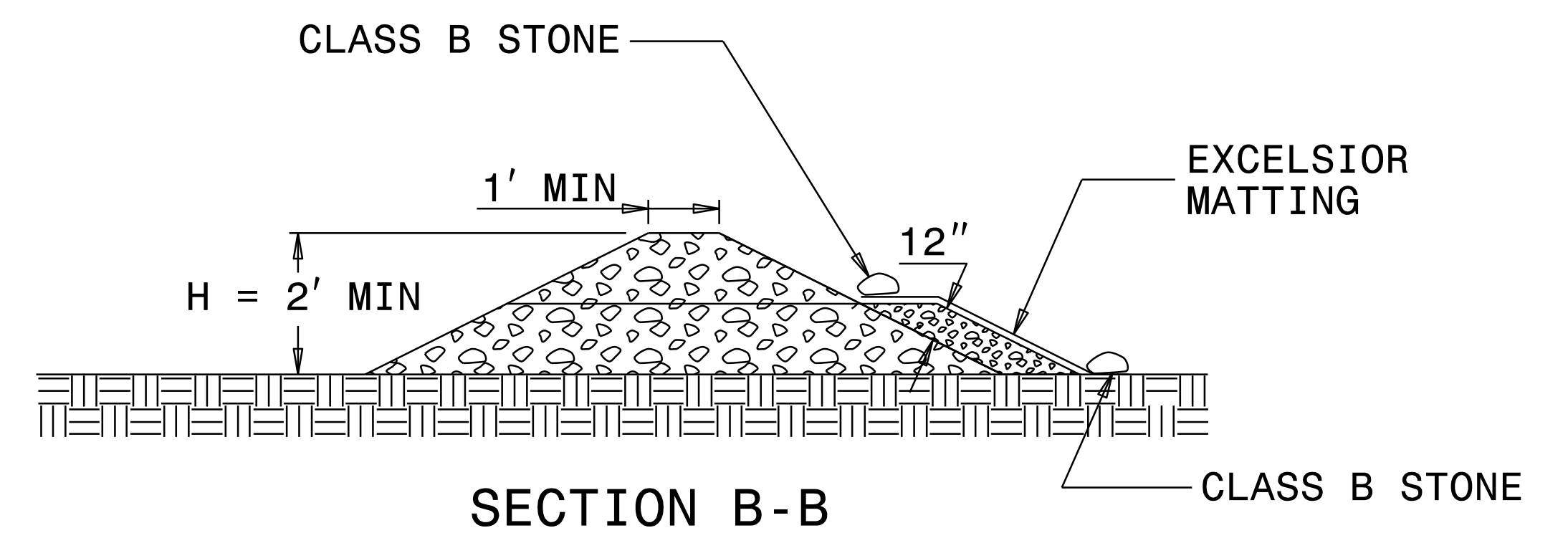
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
<i>W-5710AG</i>	<i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

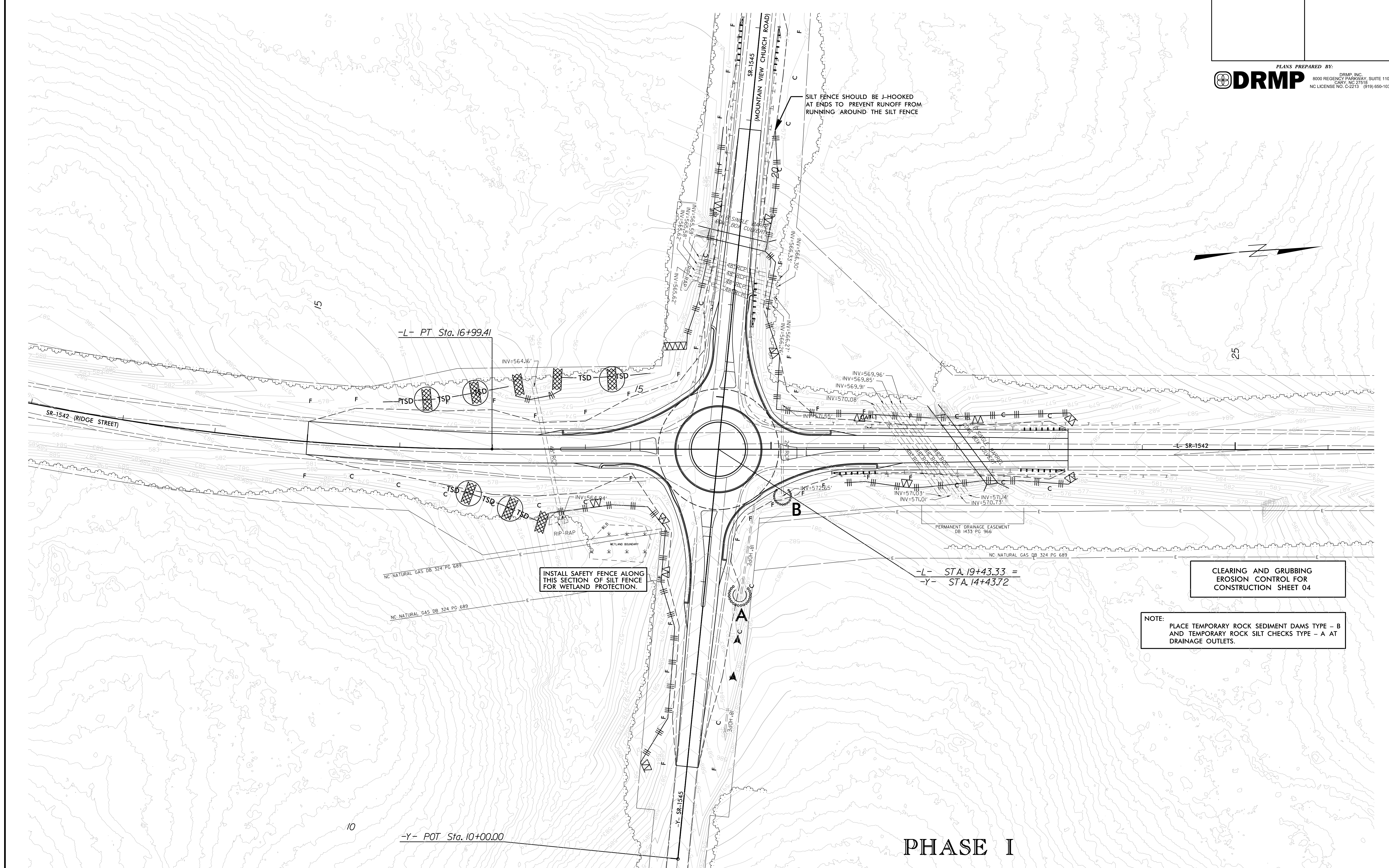
SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	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.

EROSION CONTROL PLAN

PROJECT REFERENCE NO. W-5710AG	SHEET NO. EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PLANS PREPARED BY:
 **DRMP**
 DRMP, INC.
 8000 REGENCY PARKWAY, SUITE 110
 CARY, NC 27513
 NC LICENSE NO. C-2213 (919) 656-1038



INSTALL SAFETY FENCE ALONG THIS SECTION OF SILT FENCE FOR WETLAND PROTECTION.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 04

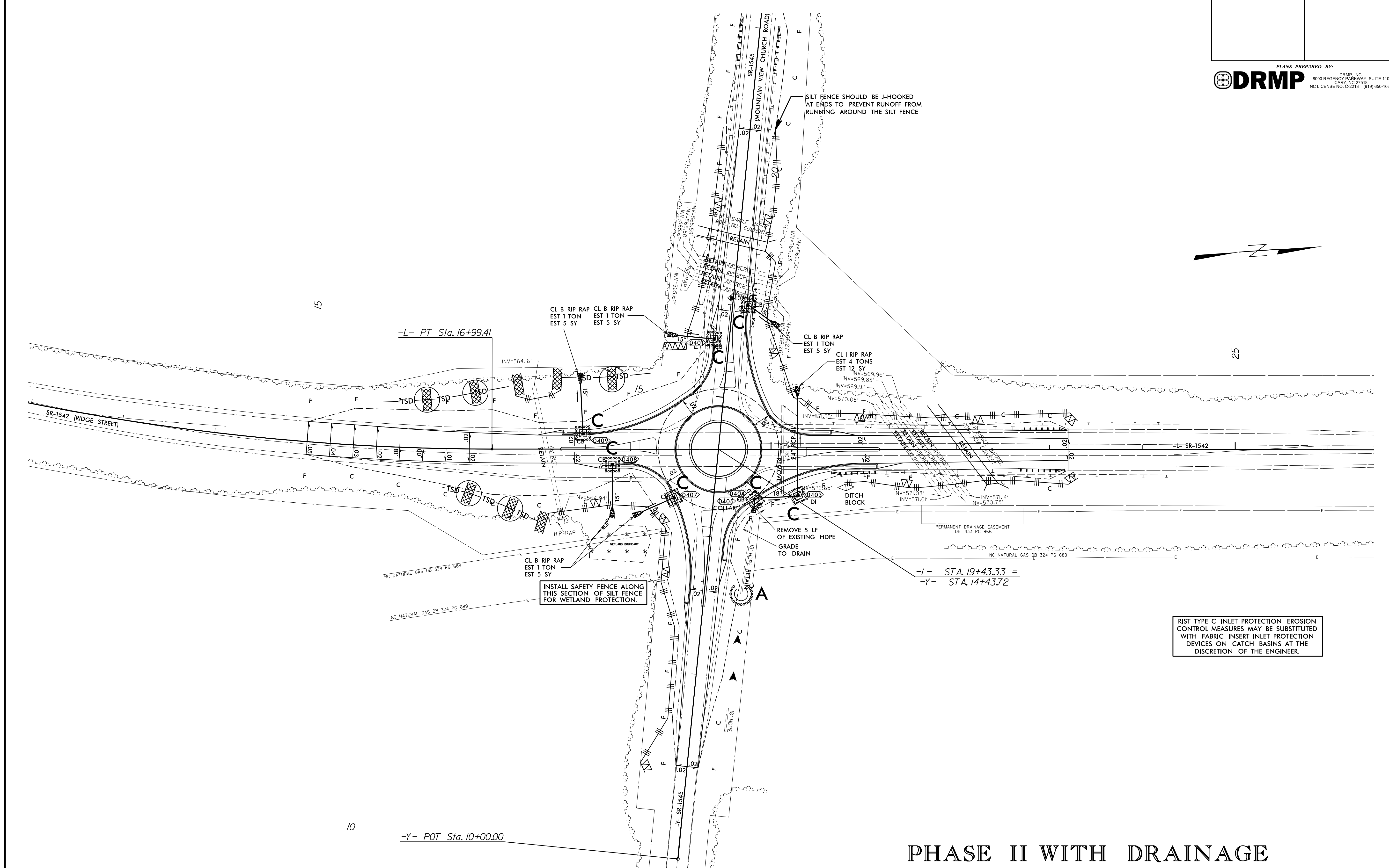
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

PHASE I

EROSION CONTROL PLAN

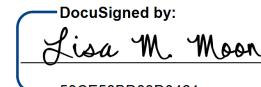

PROJECT REFERENCE NO. W-5710AG	SHEET NO. EC-05/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PLANS PREPARED BY:
DRMP
 DRMP, INC.
 8000 REGENCY PARKWAY, SUITE 110
 CARY, NC 27513
 NC LICENSE NO. C-2213 (919) 850-1038



RIST TYPE-C INLET PROTECTION EROSION CONTROL MEASURES MAY BE SUBSTITUTED WITH FABRIC INSERT INLET PROTECTION DEVICES ON CATCH BASINS AT THE DISCRETION OF THE ENGINEER.

PHASE II WITH DRAINAGE

PROJECT REFERENCE NO. <i>W-5710AG</i>	SHEET NO. <i>SIGN-01</i>
APPROVED:  <small>DocuSigned by: Lisa M. Moon 50CE58B0B3D0421</small>	
DATE: 3/10/2021	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
STANLY COUNTY**

**LOCATION: INTERSECTION OF SR 1542 (RIDGE STREET) AND
SR 1545 (MOUNTAIN VIEW CHURCH ROAD)**

CONTRACT: 44856.1.35 T.I.P.: W-5710AG

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
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGN ON 'U' CHANNEL POSTS
910.40	SINGLE LANE ROUNDABOUT SIGNING, WITH PEDESTRIANS

GENERAL NOTES

- . SIGNS FURNISHED BY STATE. RESIDENT ENGINEER TO ORDER SIGNS FROM CORRECTION ENTERPRISES.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.


SUMMARY OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.		
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	318 LF.
4096000000	904	SIGN ERECTION, TYPE D	4 EA.
4102000000	904	SIGN ERECTION, TYPE E	21 EA.
4108000000	904	SIGN ERECTION, TYPE F	5 EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	11 EA.

INDEX

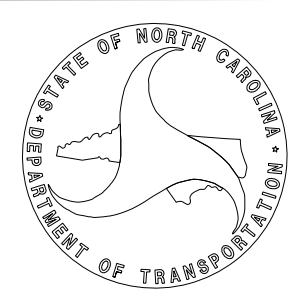
SHEET NO.	DESCRIPTION
SGN-01	TITLE SHEET
SGN-02	TYPE "E" AND "F" SIGNS
SGN-02A	SIGN DESIGNS
SGN-03 & 04	SIGNING PLANS

Plans Prepared By:

**DRMP**

DRMP, Inc.
8000 Regency Parkway, Suite 110
Cary, NC 27518
NC License No. C-2213 (919) 650-1038

LISA MOON, PE	PROJECT ENGINEER
DARREN WHITE	PROJECT DESIGN ENGINEER

PLAN PREPARED FOR: N.C.D.O.T. DIVISION 10	
NCDOT CONTACT: DONALD GRIFFITH DM-STIP PROJECT MANAGER	

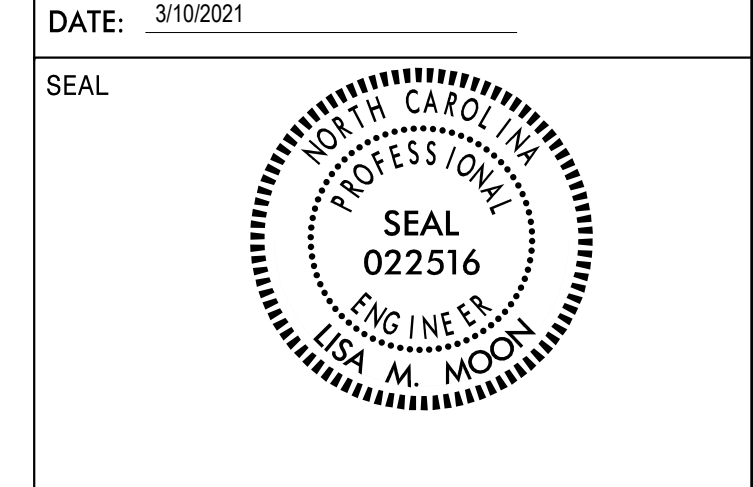
3/10/2021 R:\5710AG\Trafic\Signing\CADD\Signing Layout Plans\W5710AG_SGN_TITLESHEET.dgn

TYPE "E" SIGNS

TYPE "F" SIGNS

PROJECT REFERENCE NO. *W-5710AG* SHEET NO. *SIGN-02*

APPROVED: *Lisa M. Moon*
DATE: 3/10/2021



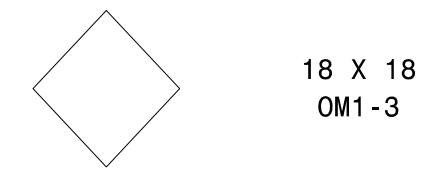
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

401 QUANTITY REQ'D 4



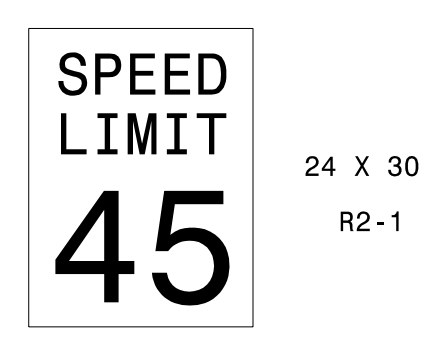
ONE "U" POST PER SIGN

406 QUANTITY REQ'D 4



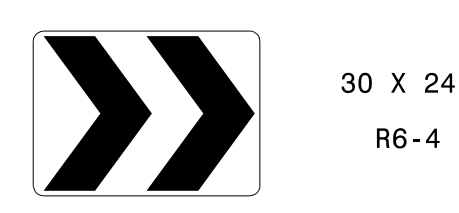
MOUNT BELOW SIGN 405
IN 4 INSTALLATIONS

402 QUANTITY REQ'D 1



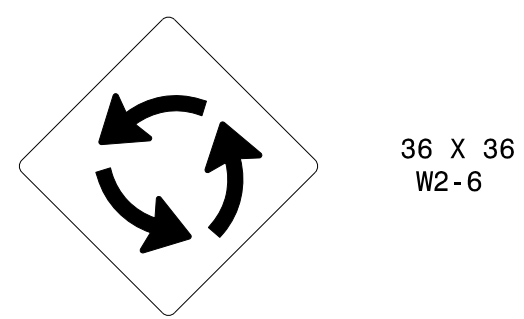
ONE "U" POST PER SIGN

403 QUANTITY REQ'D 4



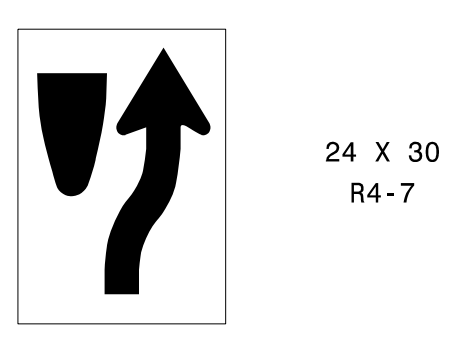
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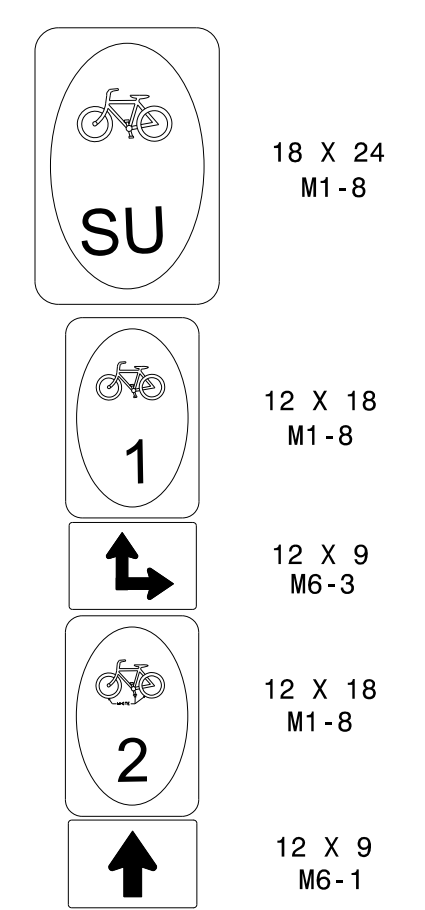
ONE "U" POST PER SIGN

405 QUANTITY REQ'D 4



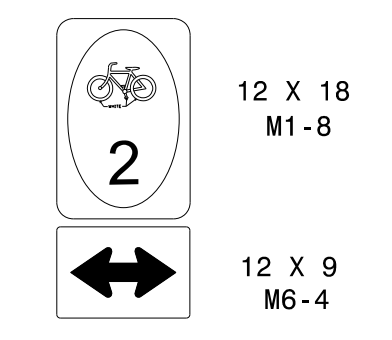
ONE "U" POST PER SIGN

501



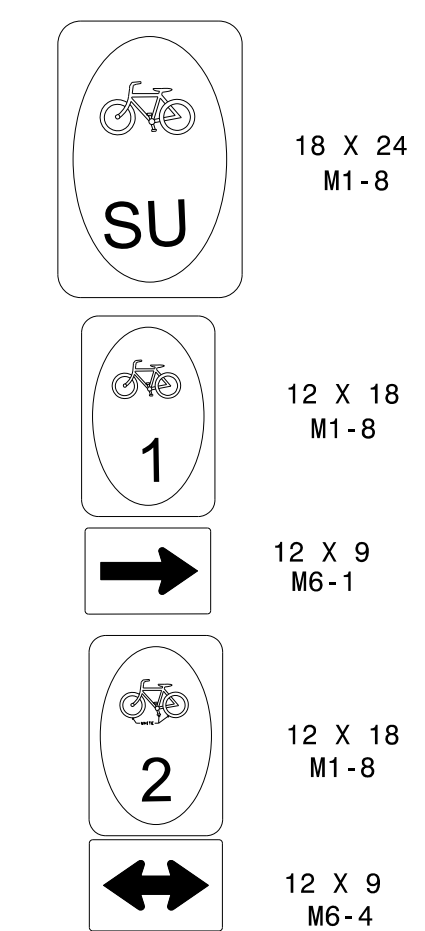
ONE "U" POST PER SIGN

504

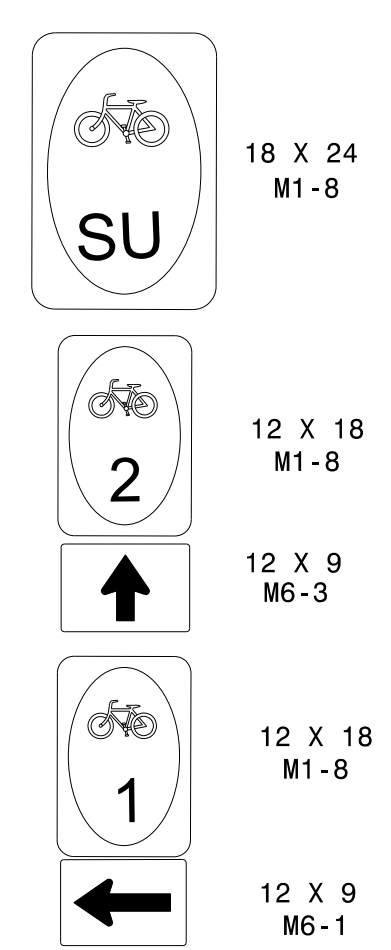


ONE "U" POST PER SIGN

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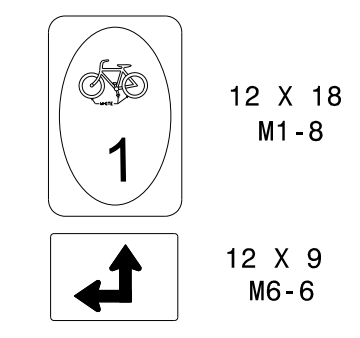


502



ONE "U" POST PER SIGN

503




ONE "U" POST PER SIGN

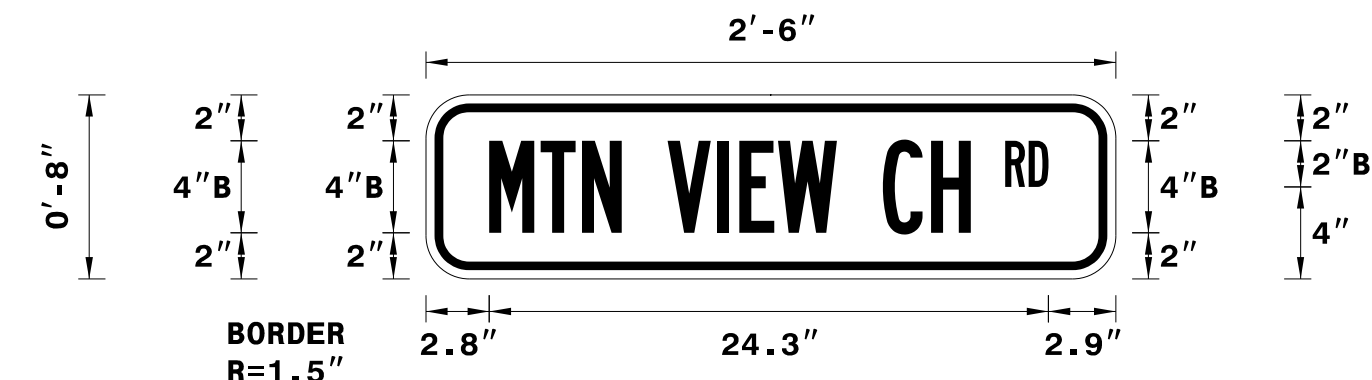
Plans Prepared By:
DRMP
DRMP, Inc.
8000 Regency Parkway, Suite 110
Cary, NC 27518
NC License No. C-2213 (919) 650-1038

TYPE "E" & "F" SIGNS

F:\10\2021\W-5710AG\Tr-off\ic\Signing\CADD\Signing_Layout_Plans\W5710AG_SGN_TITLESHEET.dgn
User: jwhite

PROJECT REFERENCE NO. W-5710AG	SHEET NO. SIGN-02A
APPROVED: <i>Lisa M. Moon</i> S8CE588D83D0421	
DATE: 3/10/2021	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SIGN NUMBER: 301, 302 TYPE: D QUANTITY: 2 SIGN WIDTH: 2'-6" HEIGHT: 0'-8" TOTAL AREA: 1.7 Sq.Ft. BORDER TYPE: RECESSED RECESS: 0.38" WIDTH: 0.38" RADII: 1.5" NO. Z BARS: _____ LENGTH: _____	BACKG COLOR: Yellow COPY COLOR: Black	DESIGN BY: AK PROJECT ID: W-5710AG CHECKED BY: CS LOCATION: STANLY COUNTY Dec 09, 2019 DIV: 10
--	--	---



Spacing Factor is 1 unless specified otherwise

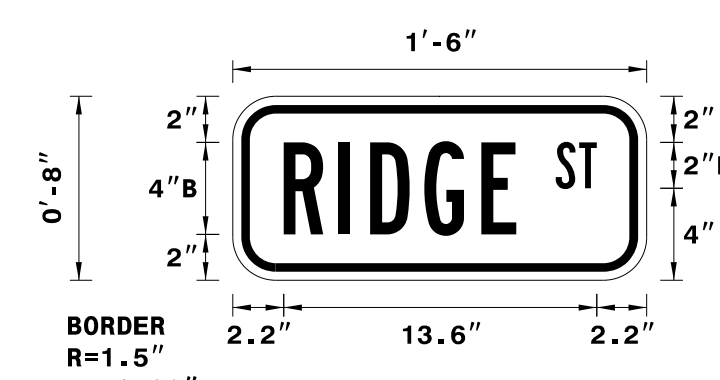
LETTER POSITIONS

Letter spacings are to start of next letter

										Series/Size Text Length
	R	D								B 2000
25.2	1	0.9	2.9							1.9
	M	T	N							B 2000
2.8	2.2	1.8	1.7	21.5						5.8
	V	I	E	W						B 2000
10.5	2.2	1	1.7	2.6	12.1					7.4
	C	H								B 2000
19.9	2.1	1.7	6.3							3.8

FILENAME: W5710AF_NEW-SGN_Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 303, 304 TYPE: D QUANTITY: 2 SIGN WIDTH: 1'-6" HEIGHT: 0'-8" TOTAL AREA: 1.0 Sq.Ft. BORDER TYPE: RECESSED RECESS: 0.38" WIDTH: 0.38" RADII: 1.5" NO. Z BARS: _____ LENGTH: _____	BACKG COLOR: Yellow COPY COLOR: Black	DESIGN BY: AK PROJECT ID: W-5710AG CHECKED BY: CS LOCATION: STANLY COUNTY Dec 09, 2019 DIV: 10
--	--	---



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS


Letter spacings are to start of next letter

										Series/Size Text Length
	S	T								B 2000
14	1	0.8	2.2							1.8
	R	I	D	G	E					B 2000
2.2	2.4	1.4	2.4	2.5	1.5	5.7				10.1

FILENAME: W5710AF_NEW-SGN_Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

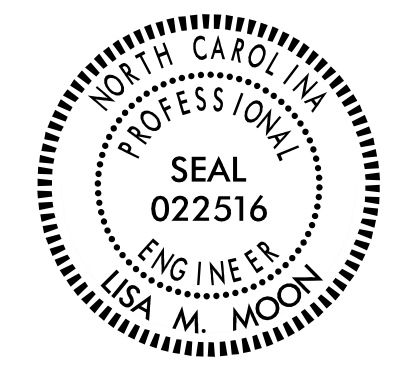
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 Lisa M. Moon

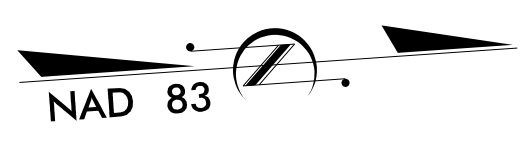
Plans Prepared By:



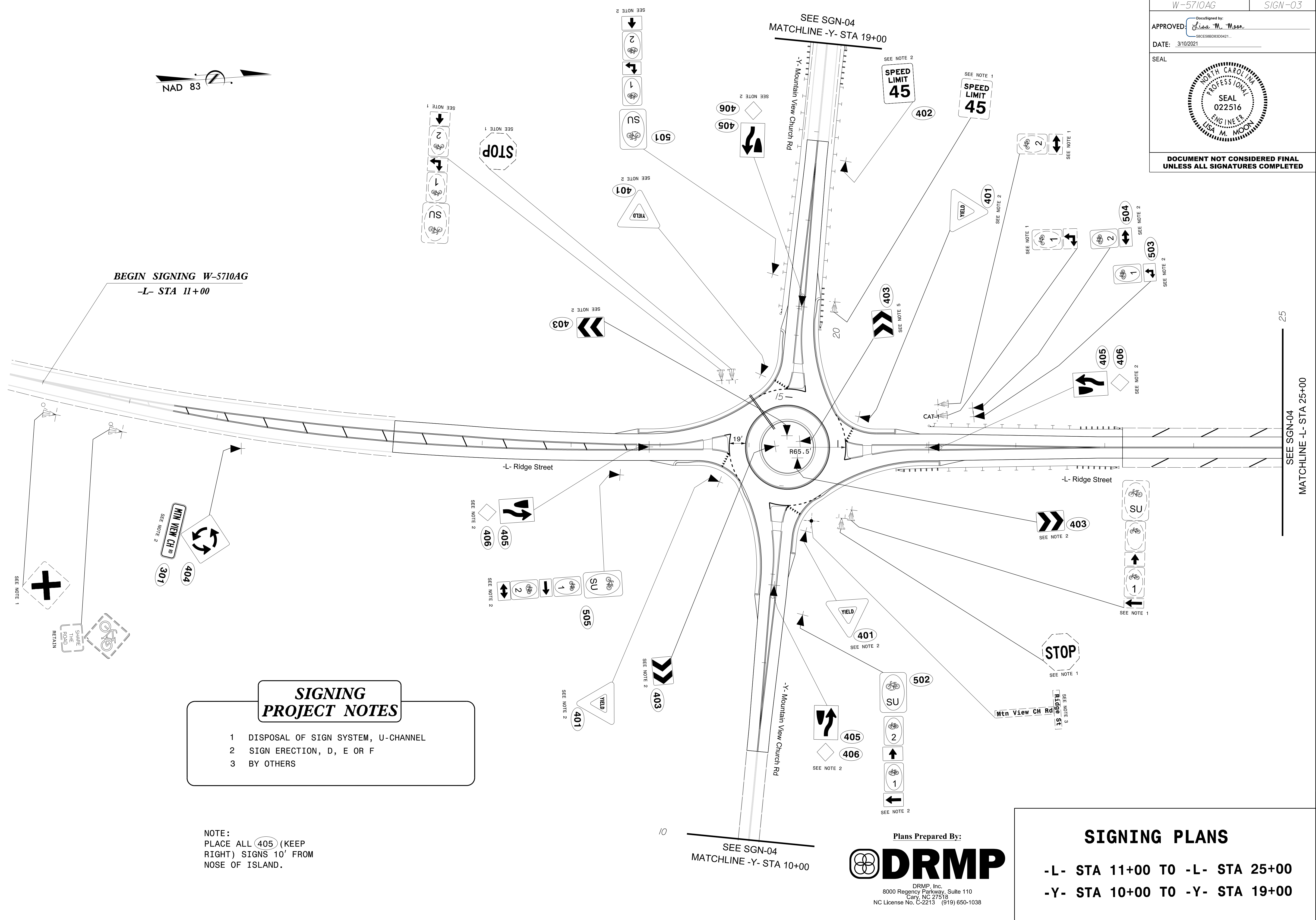
DRMP, Inc.
 8000 Regency Parkway, Suite 110
 Cary, NC 27516
 NC License No. C-2213 (919) 650-1038

SIGN DESIGNS

PROJECT REFERENCE NO. W-5710AG	SHEET NO. SIGN-03
APPROVED: <i>Lisa M. Moon</i> 3/10/2021	
DATE: 3/10/2021	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



BEGIN SIGNING W-5710AG
-L- STA 11+00




SIGNING PROJECT NOTES

- DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- SIGN ERECTION, D, E OR F
- BY OTHERS

NOTE:
PLACE ALL (405) (KEEP RIGHT) SIGNS 10' FROM NOSE OF ISLAND.

Plans Prepared By:



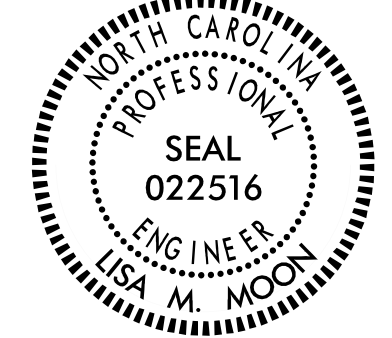
DRMP, Inc.
8000 Regency Parkway, Suite 110
Cary, NC 27518
NC License No. C-2213 (919) 650-1038

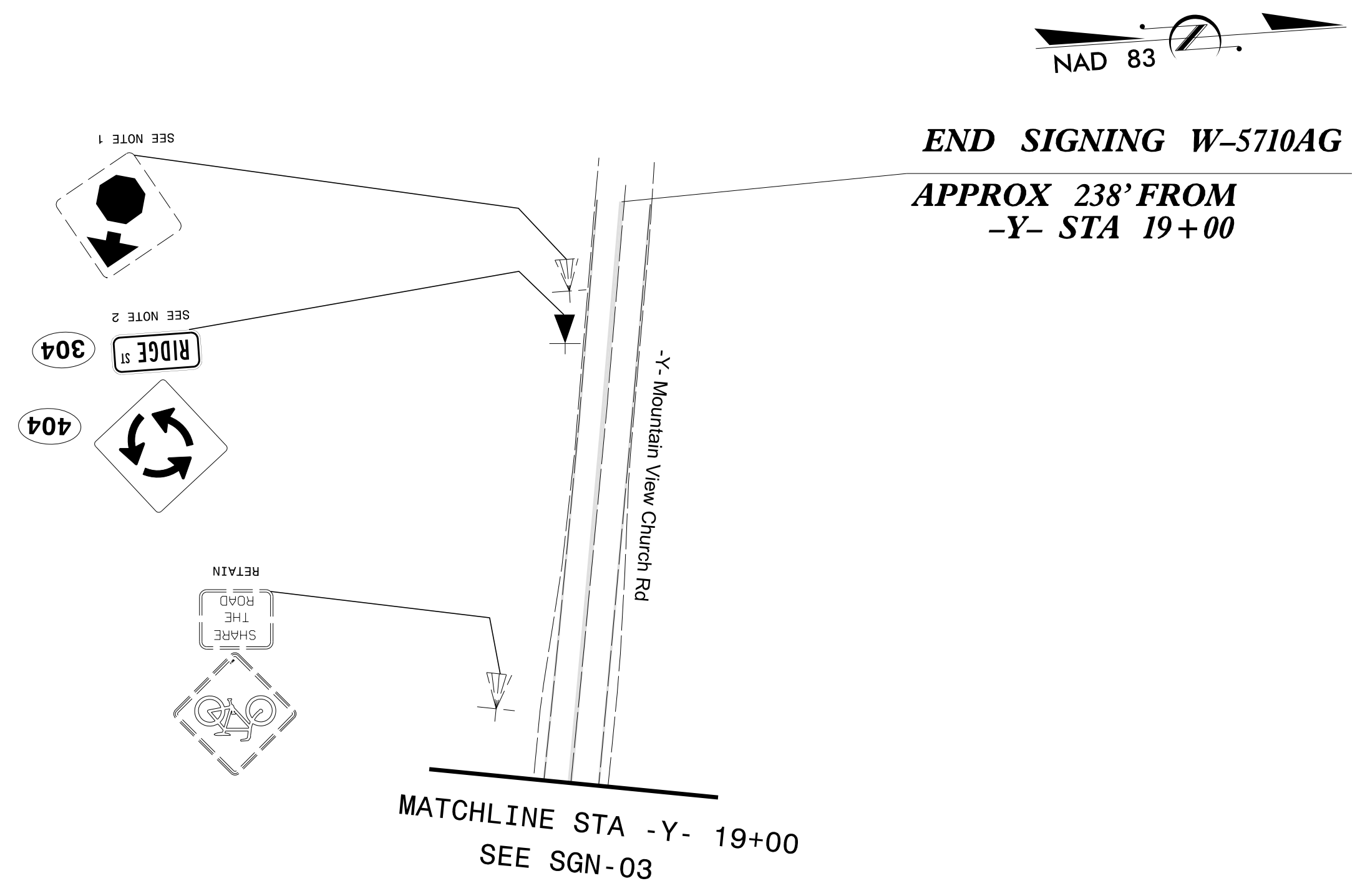
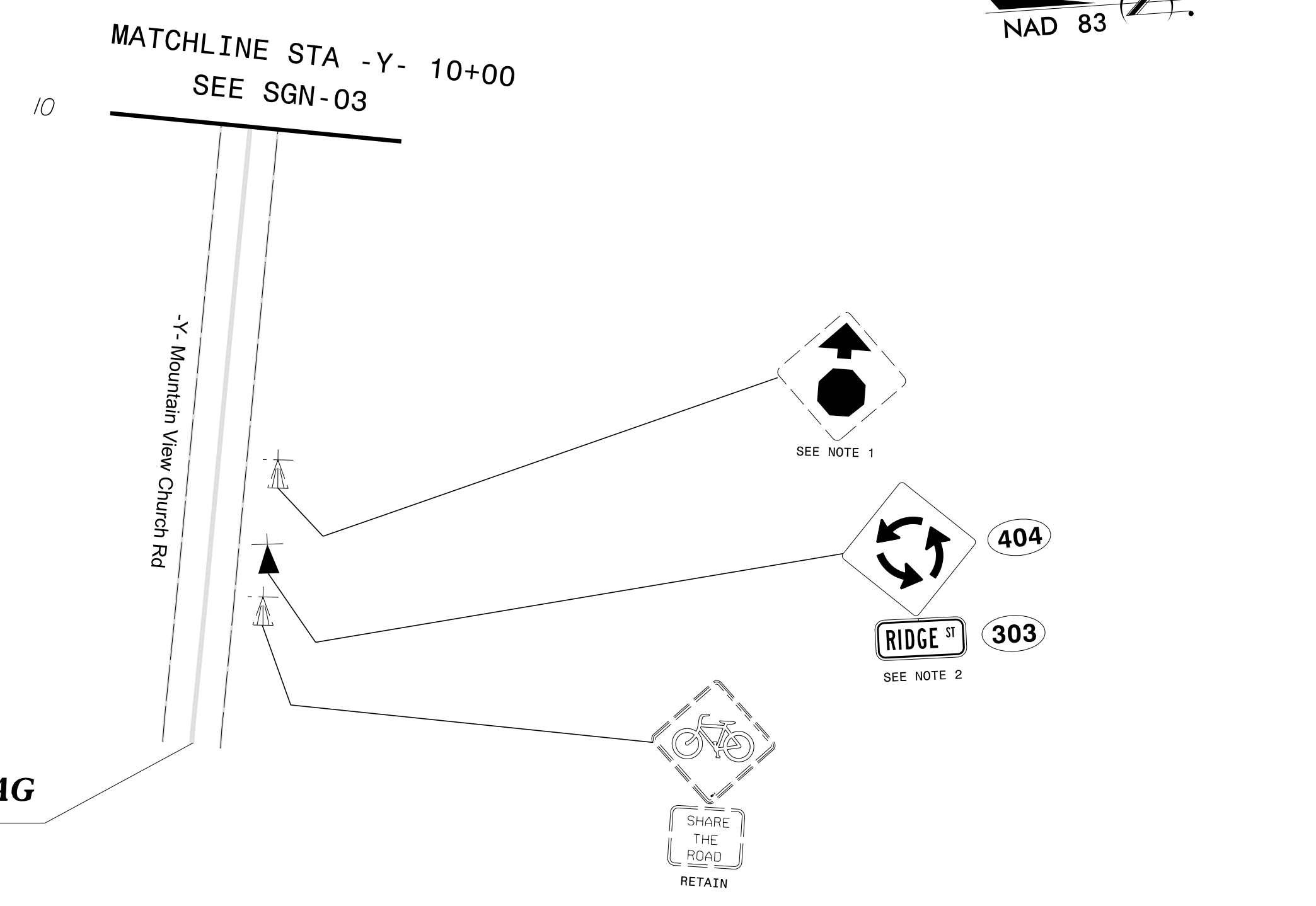
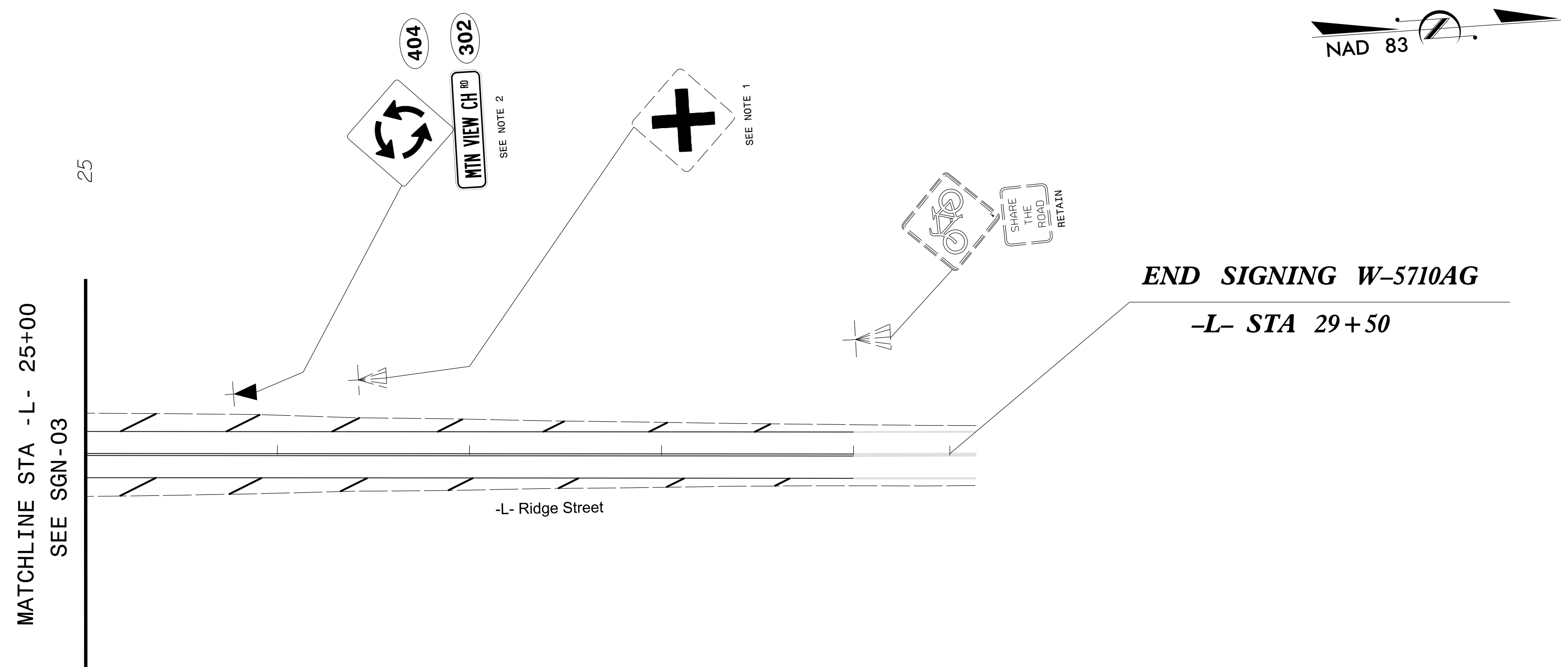
SIGNING PLANS

-L- STA 11+00 TO -L- STA 25+00
-Y- STA 10+00 TO -Y- STA 19+00

3/10/2021
 R:\W5710AG\Tr-offic\Signing\CADD\Signing_Layout_Plans\W5710AG_SGN_03.dgn
 Lisa M. Moon

SEE SGN-04
 MATCHLINE -L- STA 25+00

PROJECT REFERENCE NO. <i>W-5710AG</i>	SHEET NO. <i>SIGN-04</i>
APPROVED: <i>Lisa M. Moon</i> <small>DocuSigned by: SBCES88D83D0421...</small>	
DATE: 3/10/2021	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



BEGIN SIGNING W-5710AG
APPROX 224' FROM
-Y- STA 10+00

SIGNING PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 SIGN ERECTION, D, E OR F

Plans Prepared By:



DRMP
DRMP, Inc.
8000 Regency Parkway, Suite 110
Cary, NC 27518
NC License No. C-2213 (919) 650-1038

SIGNING PLANS

-L- STA 25+00 TO -L- STA 29+50
224' East of STA -Y- STA 10+00
TO -Y- STA 10+00

-Y- STA 19+00 TO 238' West of
-Y- STA 19+00

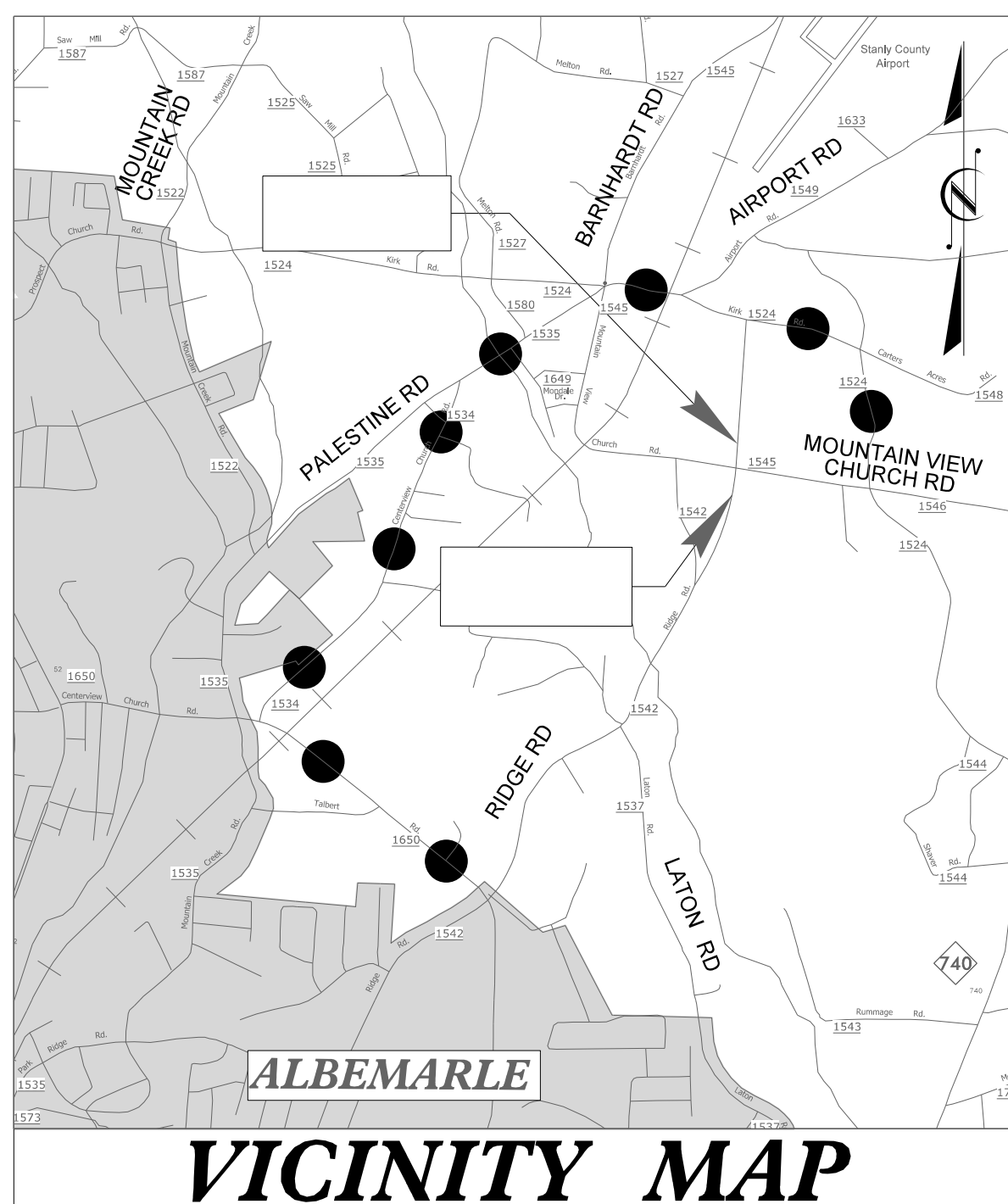
3/10/2021
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 Lisa M. Moon

TIP PROJECT: W-5710AG

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
W-5710AG	UO-1

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



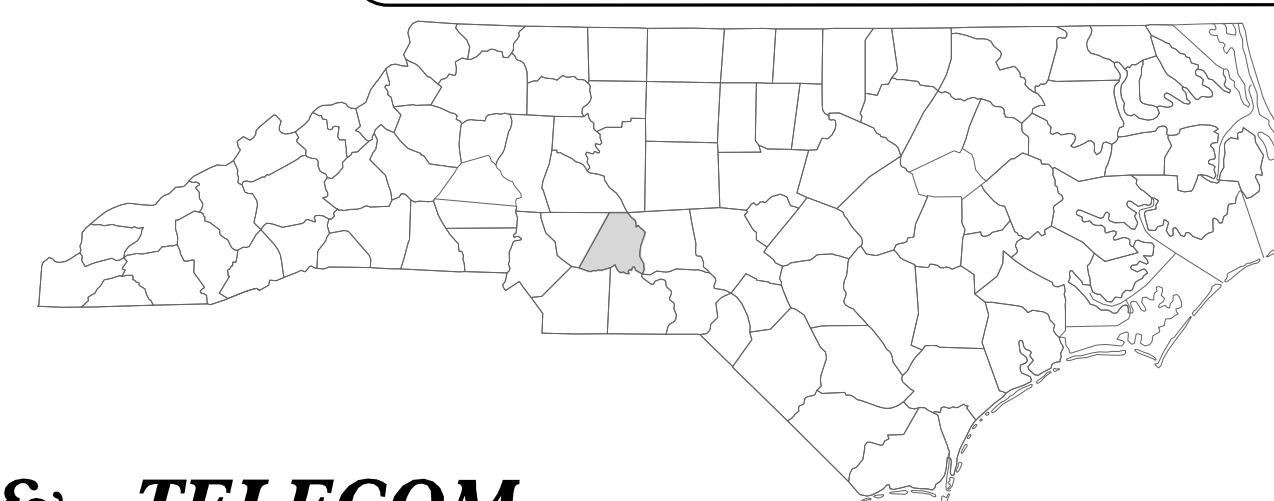
VICINITY MAP

NOT TO SCALE
●●●●● OFFSITE DETOUR

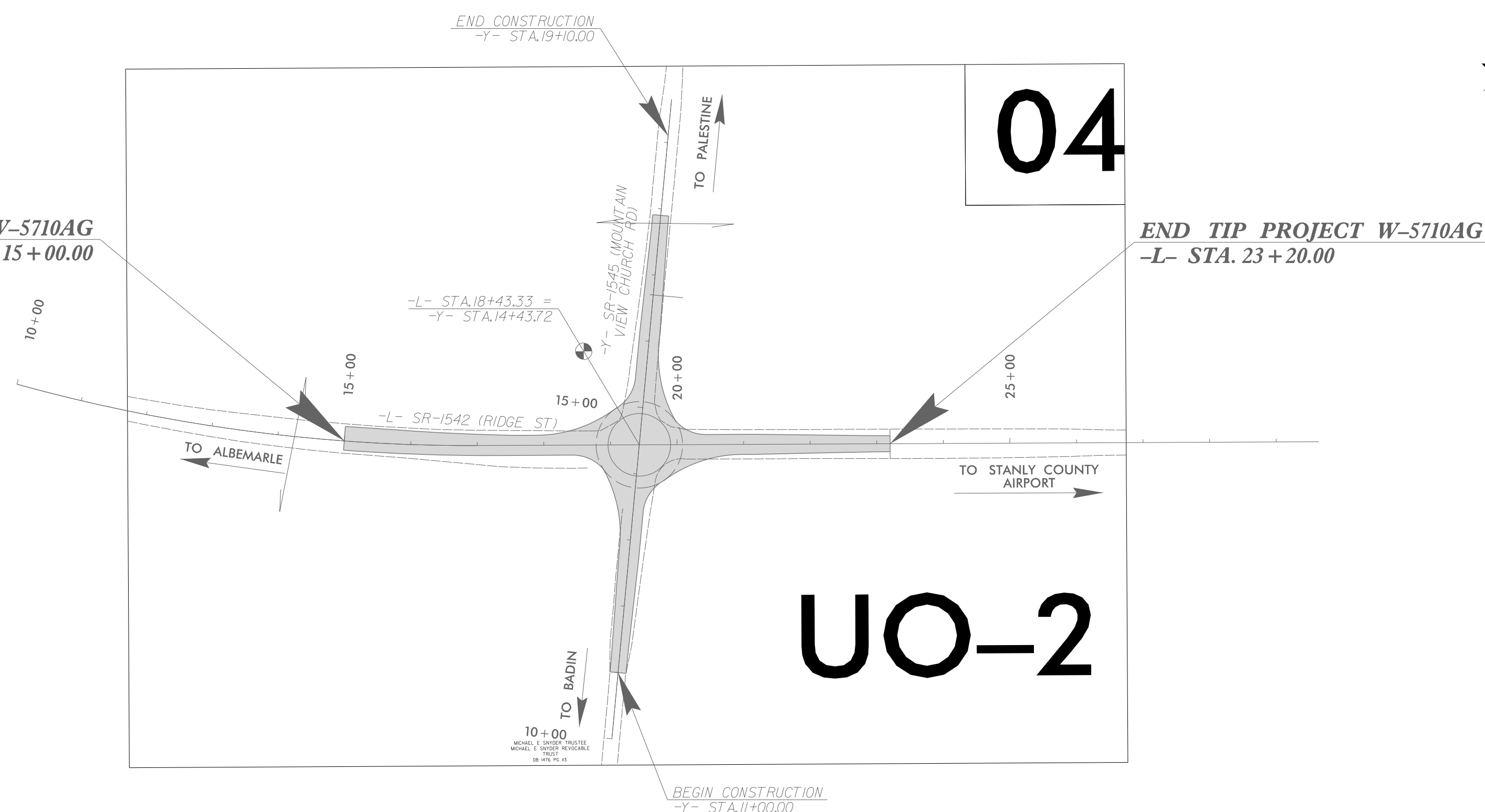
**UTILITIES BY OTHERS PLANS
STANLY COUNTY**

**LOCATION: INTERSECTION OF SR 1542 (BRIDGE STREET)
AND SR 1545 (MOUNTAIN VIEW CHURCH ROAD)**

TYPE OF WORK: POWER DISTRIBUTION, GAS DISTRIBUTION & TELECOM

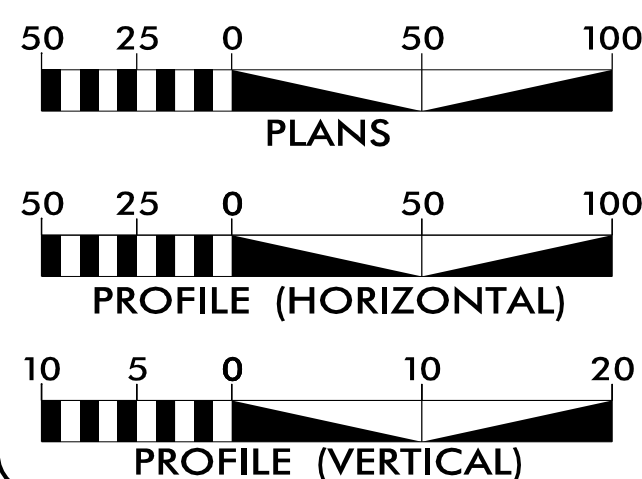


BEGIN TIP PROJECT W-5710AG
-L- STA. 15 + 00.00



THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD _____.

GRAPHIC SCALES



INDEX OF SHEETS

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

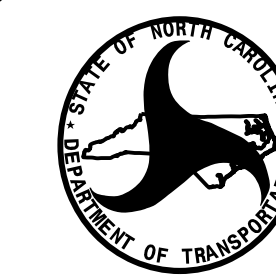
UTILITY OWNERS WITH CONFLICTS

- (A) POWER DISTRIBUTION - SCE POWER
- (B) GAS DISTRIBUTION - PNG
- (C) TELECOM - CHARTER/SPECTRUM
- (D) TELECOM - AT&T
- (E) TELECOM - WINDSTREAM
- (F) WATER/SEWER - STANLY COUNTY UTILITIES

PREPARED IN THE OFFICE OF:



Michael E. Davis UTILITY COORDINATION PROJECT MANAGER
Kendrick L. Brevard PROJECT UTILITY COORDINATOR
James N. Arnold PROJECT UTILITY DESIGNER

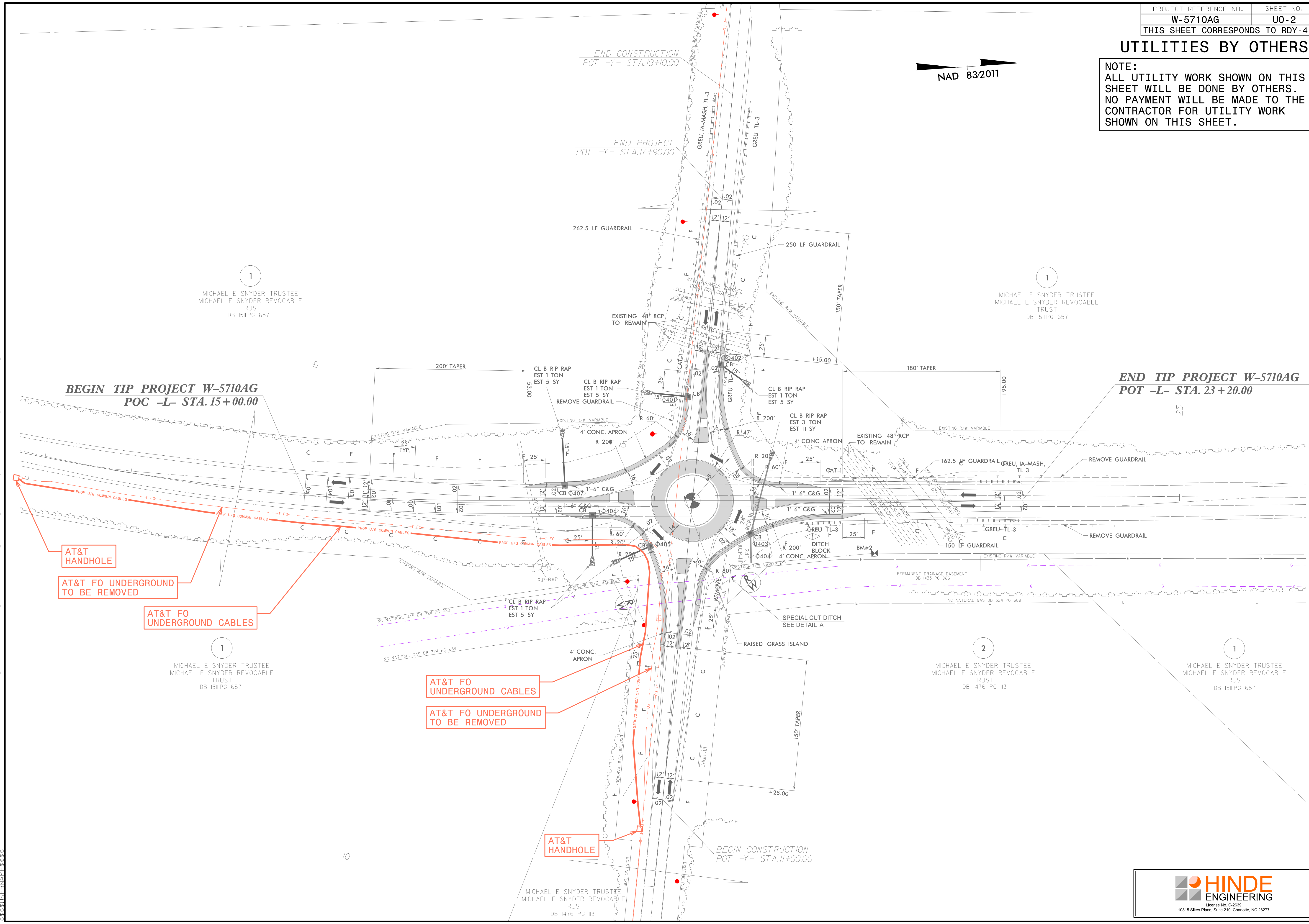


DIVISION OF HIGHWAYS
UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

Dave Davis DIVISION CONTACT #1
DIVISION CONTACT #2
DIVISION CONTACT #3
DIVISION CONTACT #4

UTILITIES BY OTHERS

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



AT&T HANDHOLE

AT&T FO UNDERGROUND TO BE REMOVED

AT&T FO UNDERGROUND CABLES

AT&T FO UNDERGROUND CABLES

AT&T FO UNDERGROUND TO BE REMOVED

AT&T HANDHOLE

1
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1511 PG 657

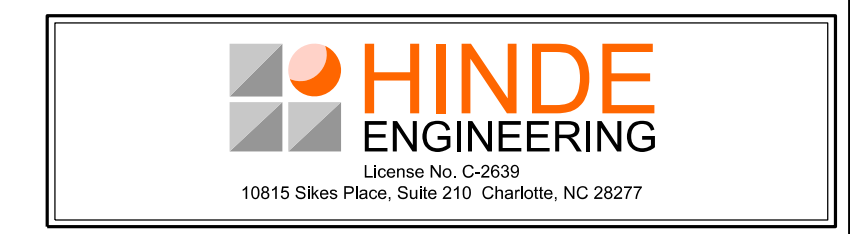
1
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1511 PG 657

1
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1511 PG 657

2
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1476 PG 113

1
 MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1511 PG 657

MICHAEL E SNYDER TRUSTEE
 MICHAEL E SNYDER REVOCABLE TRUST
 DB 1476 PG 113



C:\AUG-2019 15:36 PROJECTS\2018\A2018601.00_DRMP_w-5710AG_Ridge-Mountain\Design\Utilities\Engineering\UBD\Proj\W5710AG.ut_rdy4_U002_psh.dgn

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CROSS SECTION INDEX

DESCRIPTION	SHEET NO.
INDEX OF SHEETS	X-1A
CROSS SECTION SUMMARY	X-1B
-L-	X-1 THRU X-8
-Y-	X-9 THRU X-16

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJ. REFERENCE NO.	SHEET NO.
W-5710AG	X-1B

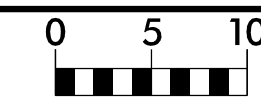
CROSS-SECTION SUMMARY

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

Station	Uncl. Exc.	Embt																		
L	(cu. yd.)	(cu. yd.)																		
15+00.00	0	0																		
15+50.00	49	6																		
16+00.00	44	15																		
16+50.00	72	17																		
17+00.00	113	13																		
17+50.00	126	6																		
18+00.00	95	7																		
18+50.00	41	51																		
Station	Uncl. Exc.	Embt																		
L	(cu. yd.)	(cu. yd.)																		
20+50.00	0	0																		
21+00.00	57	16																		
21+50.00	68	1																		
22+00.00	59	0																		
22+50.00	55	0																		
23+00.00	62	0																		
Station	Uncl. Exc.	Embt																		
Y	(cu. yd.)	(cu. yd.)																		
11+00.00	0	0																		
11+50.00	25	2																		
12+00.00	24	2																		
12+50.00	34	2																		
13+00.00	56	9																		
13+50.00	42	37																		
Station	Uncl. Exc.	Embt																		
Y	(cu. yd.)	(cu. yd.)																		
15+50.00	0	0																		
16+00.00	43	71																		
16+50.00	56	5																		
17+00.00	36	3																		
17+50.00	29	0																		
18+00.00	45	2																		
18+50.00	68	3																		
19+00.00	68	1																		

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

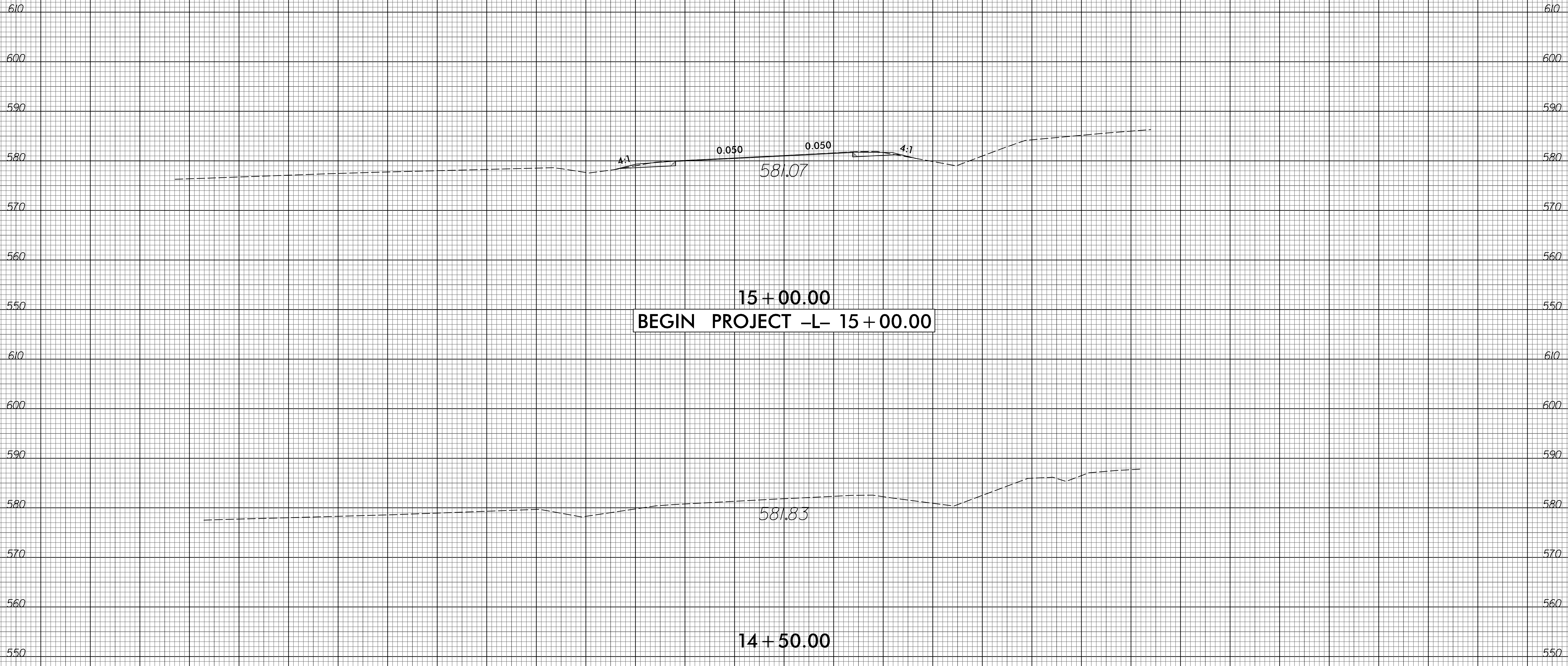
6/23/16



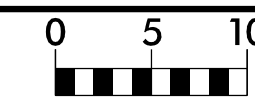
PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-1

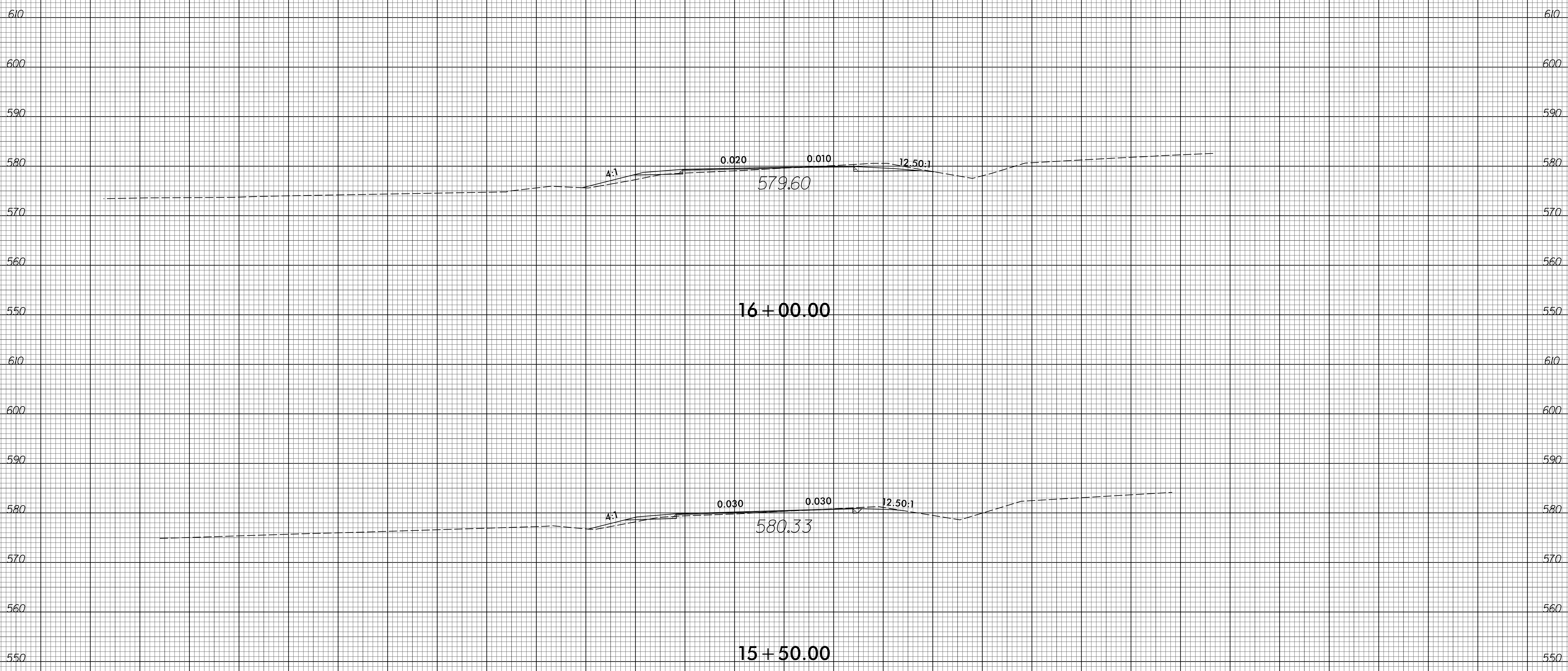
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



3/10/2021 10:55:07 AM
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M:\catt

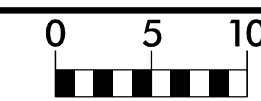


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

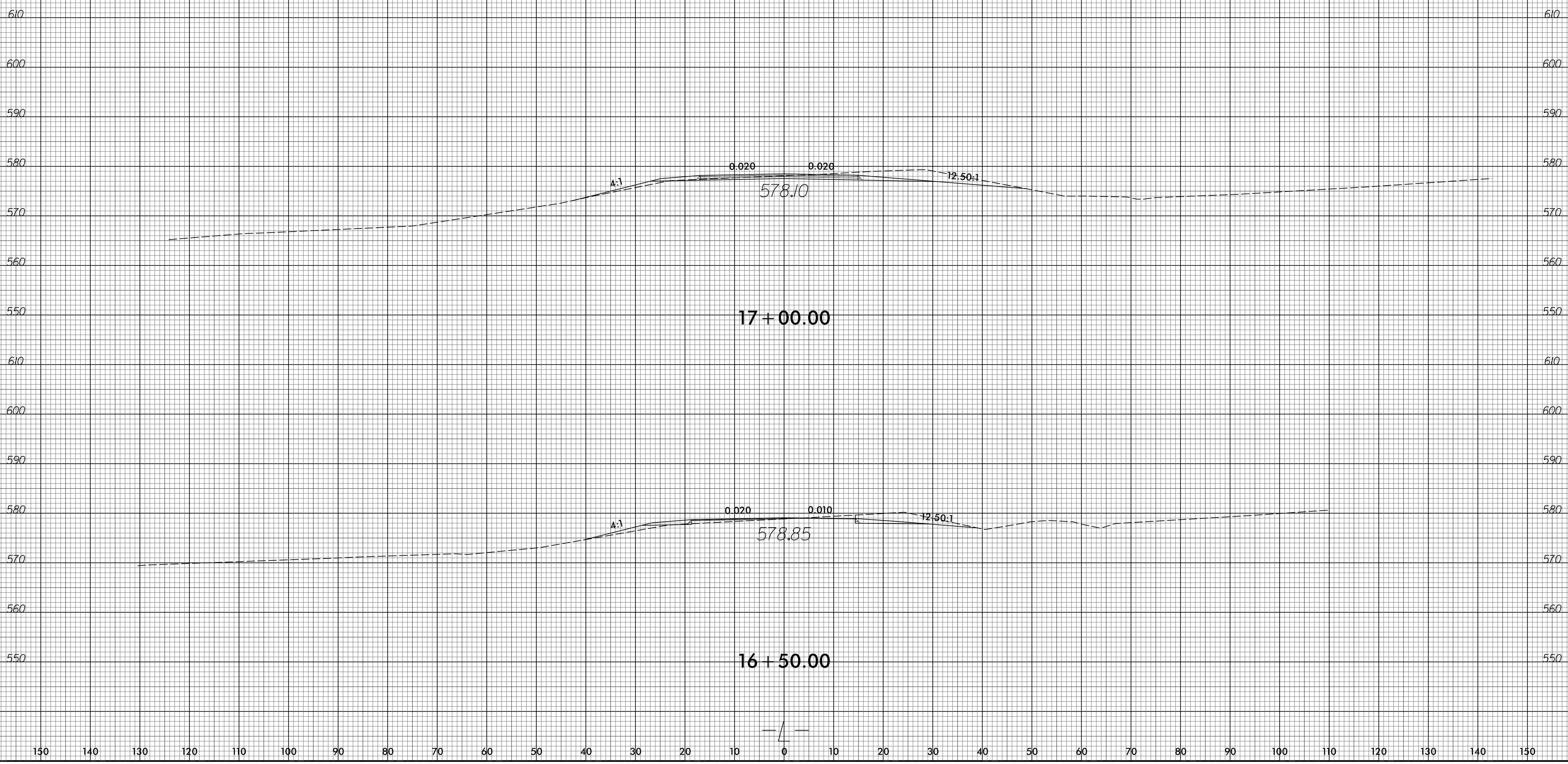
6/23/16



PROJ. REFERENCE NO.
W-5710AG

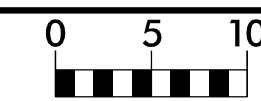
SHEET NO.
X-3

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



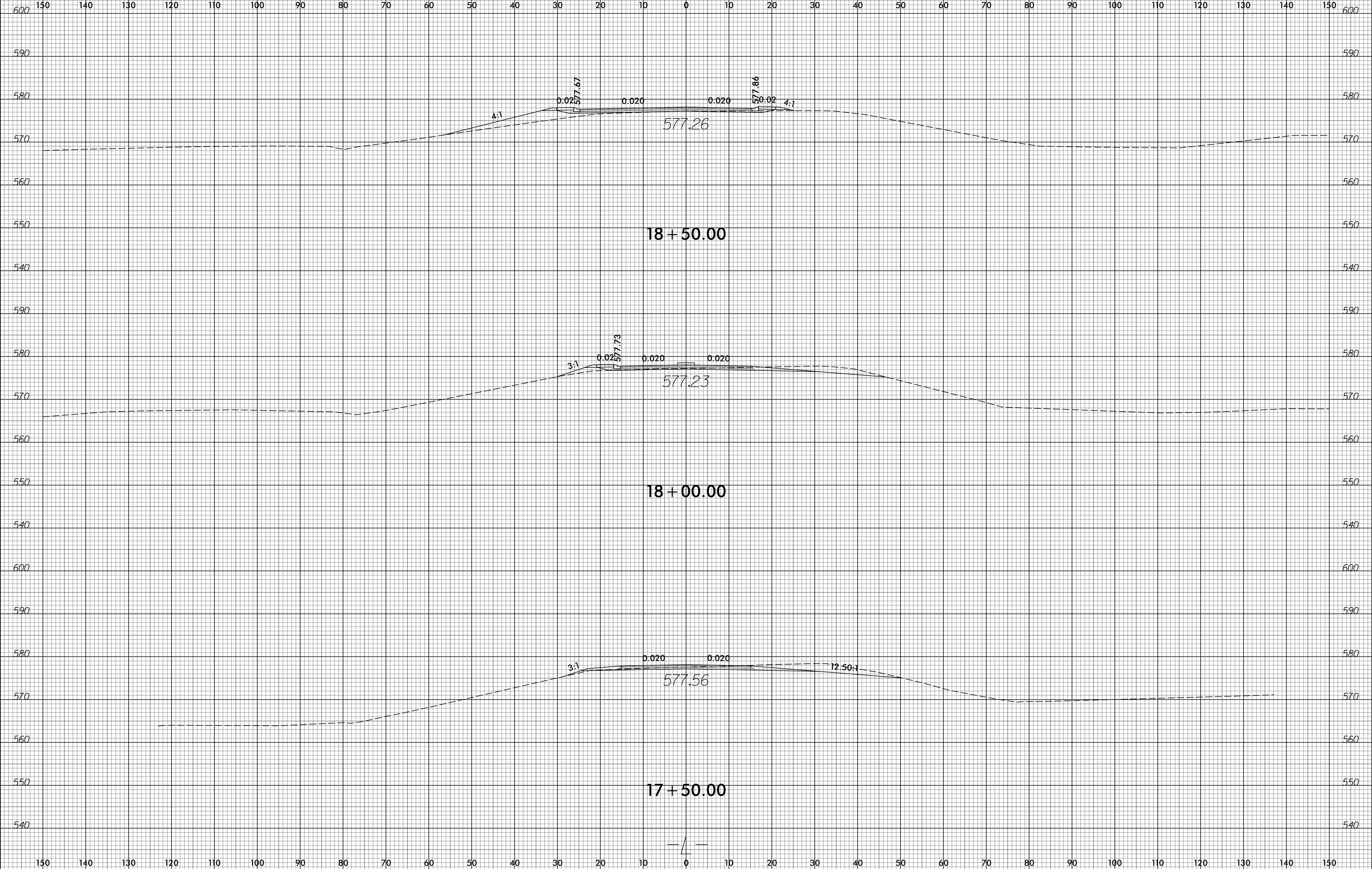
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6/23/16



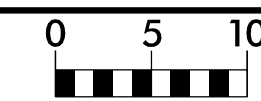
PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-4



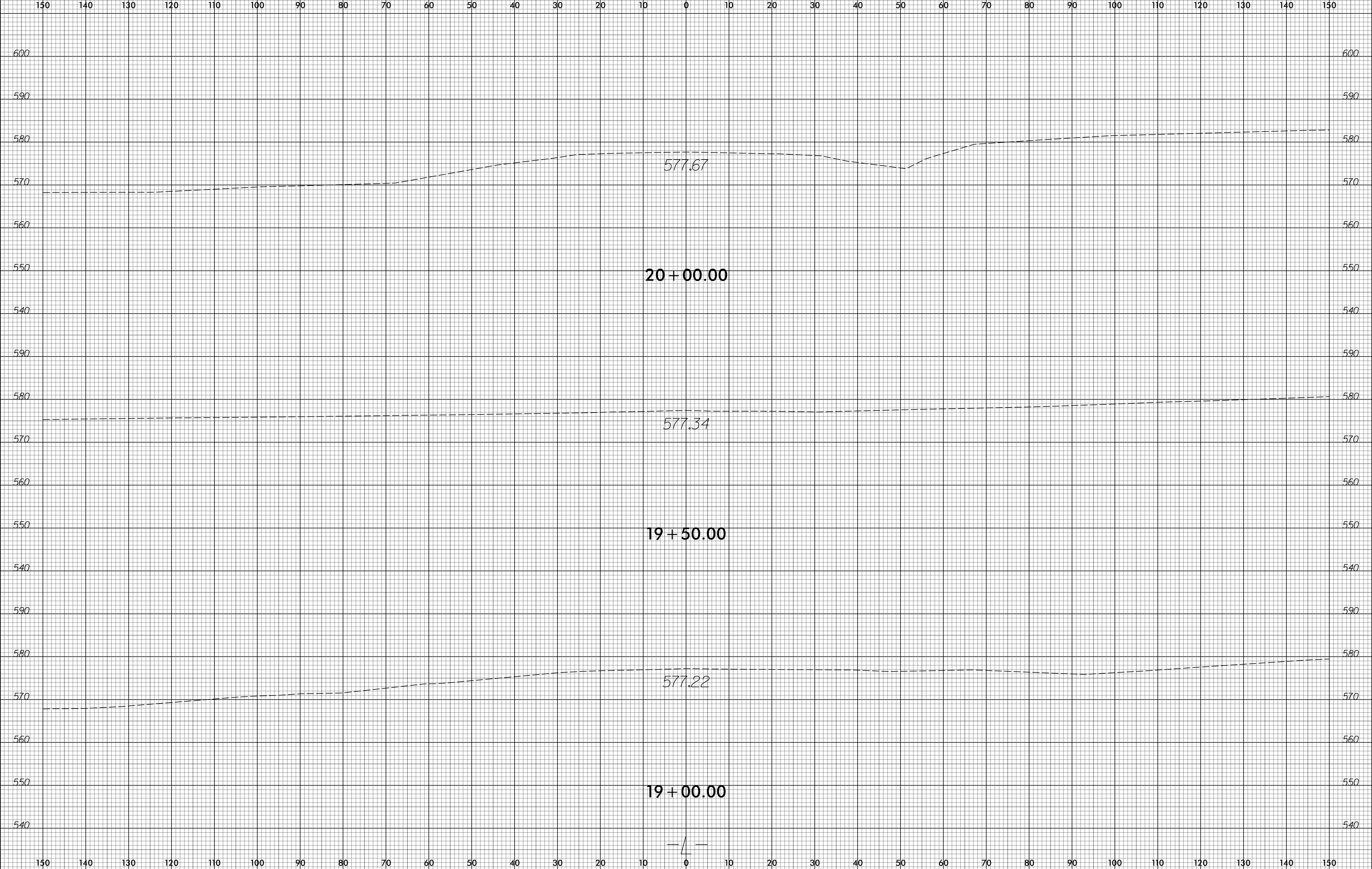
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6/23/16



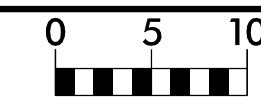
PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-5



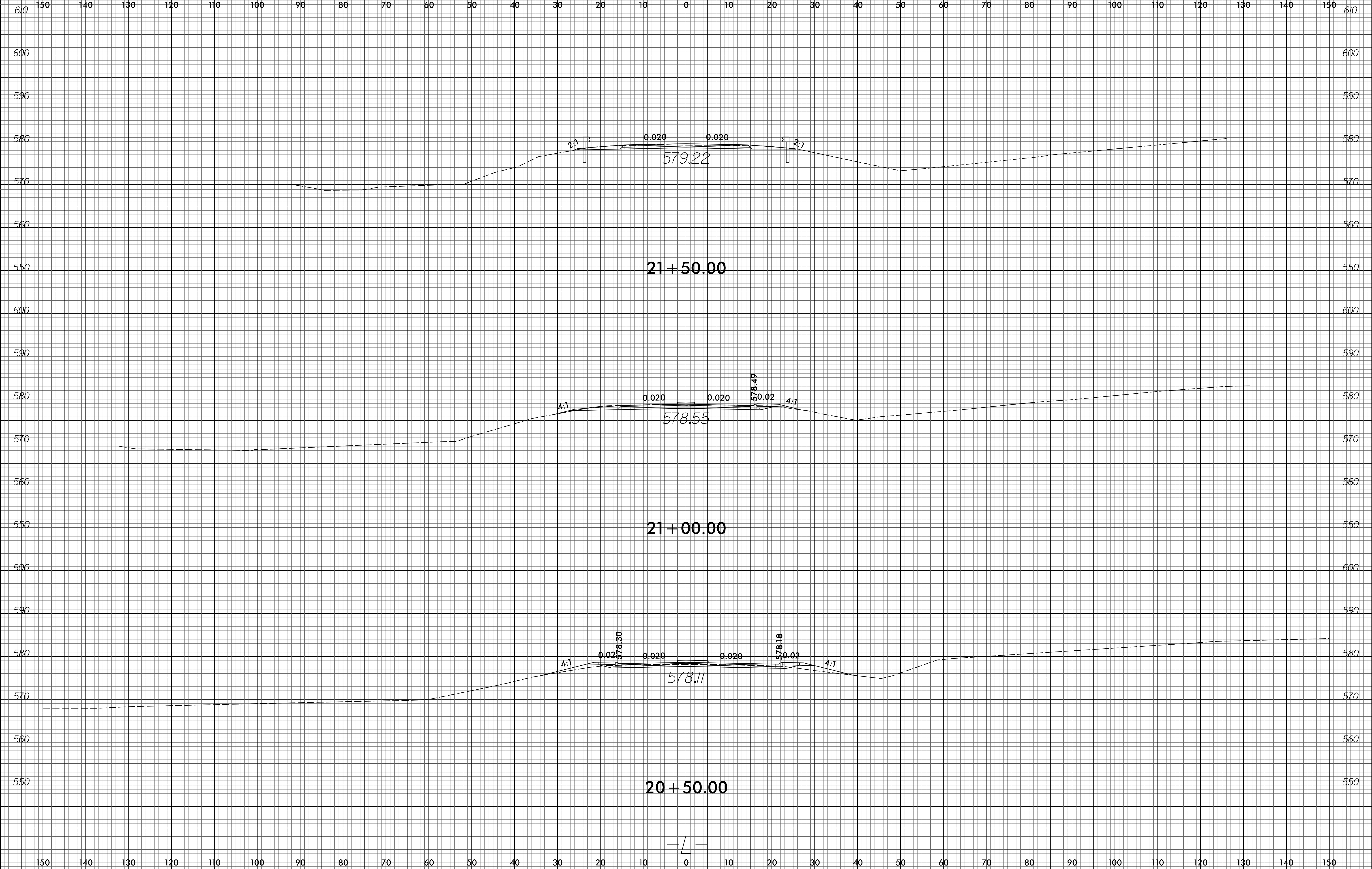
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6/23/16



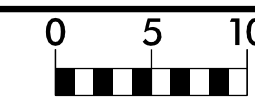
PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-6



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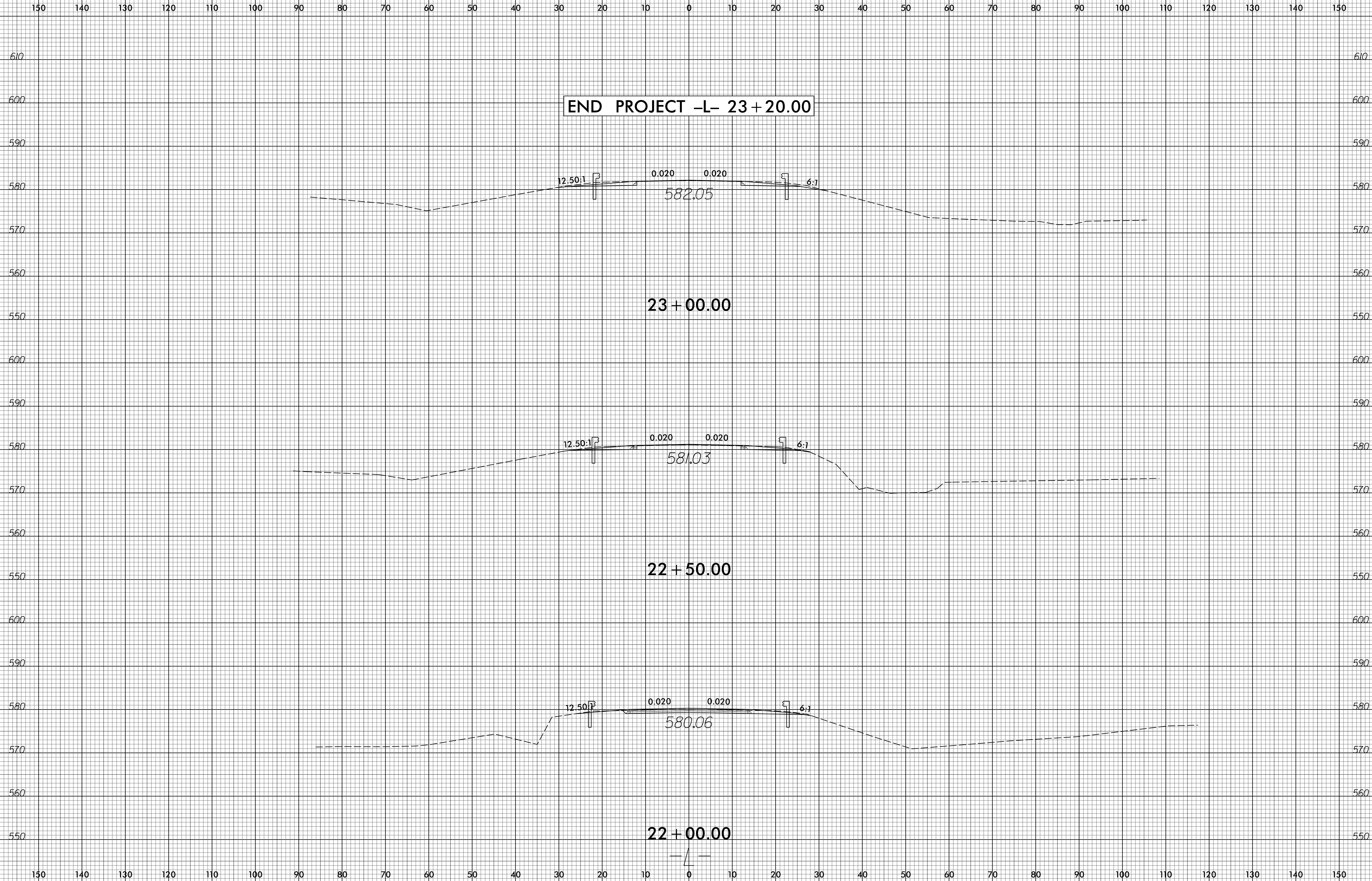
6/23/16



PROJ. REFERENCE NO.
W-5710AG

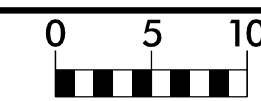
SHEET NO.
X-7

END PROJECT -L- 23 + 20.00



3/10/2021 10:55:47 AM
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M:\catt

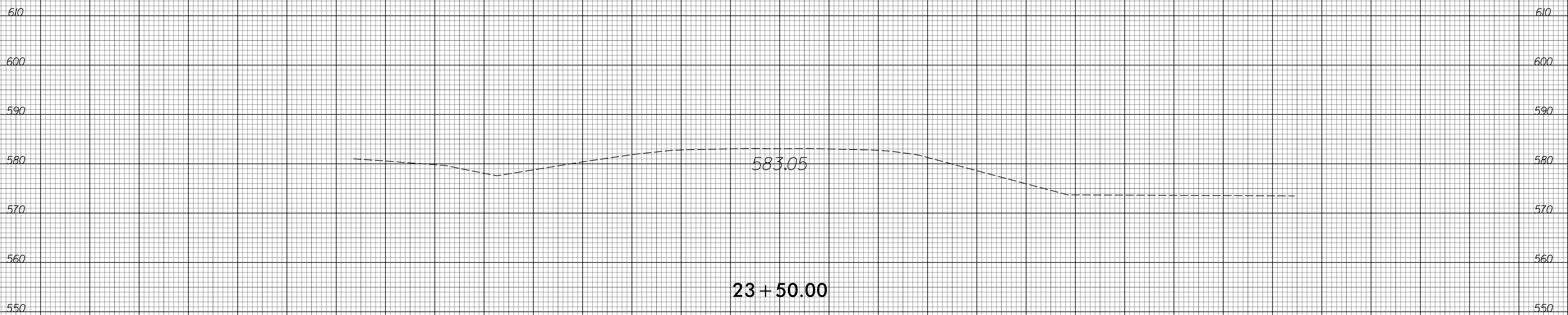
6/23/16



PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-8

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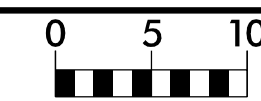
23 + 50.00

583.05

3/10/2021 10:55:49 AM
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

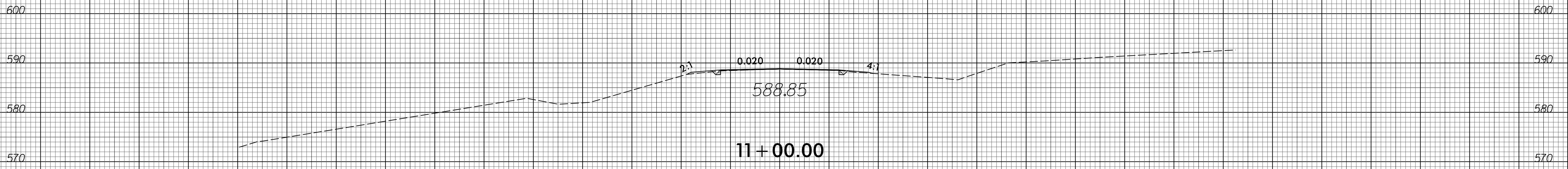
6/23/16



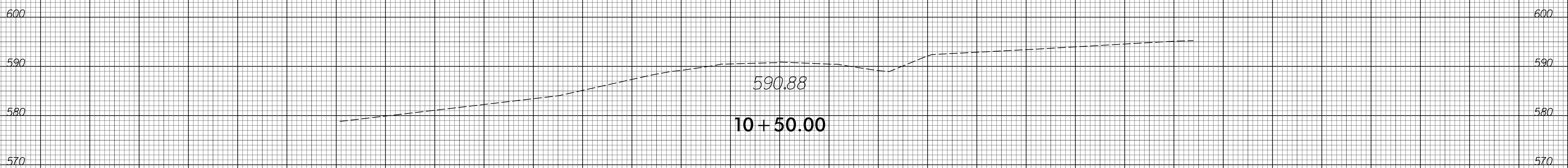
PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-9

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BEGIN CONSTRUCTION -Y- 11+00.00

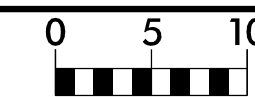


-Y-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

3/10/2021
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MFR:glu

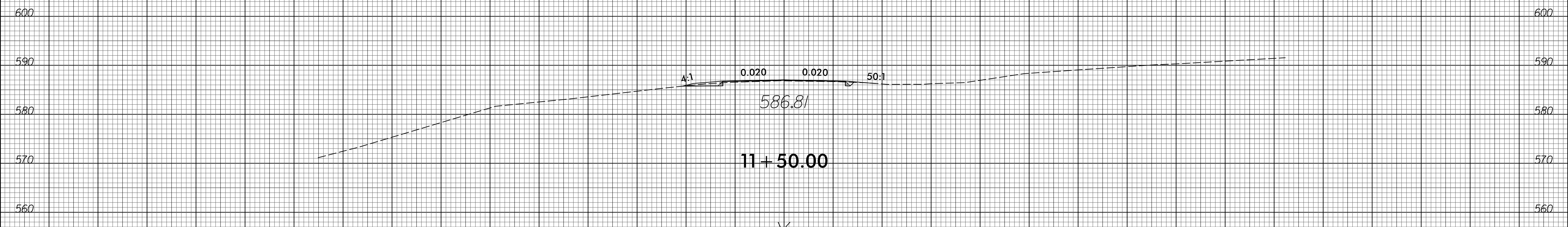
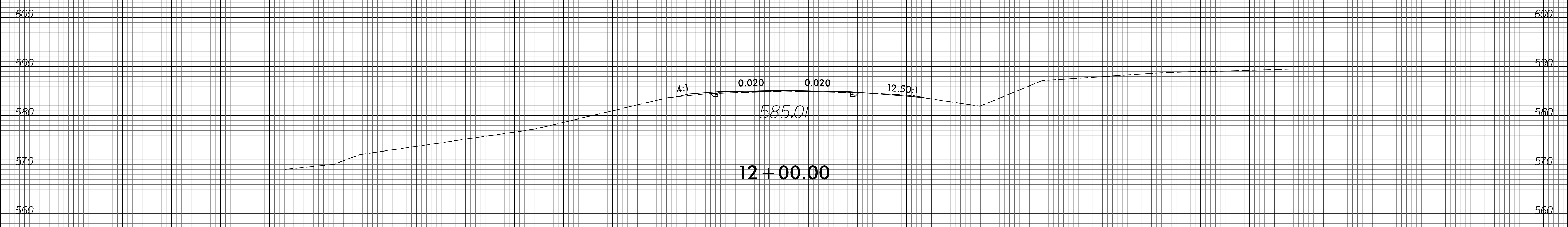
6/23/16



PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-10

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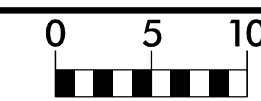


—Y—

3/10/2021
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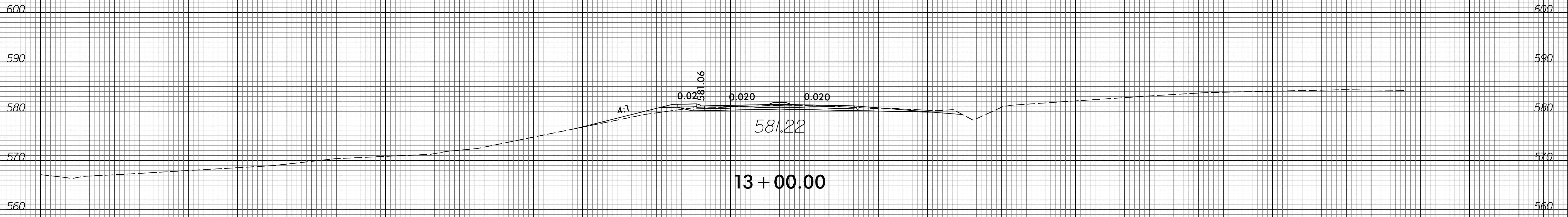
6/23/16



PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-11

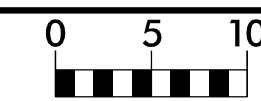
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—Y—

3/10/2021
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MFR\glt

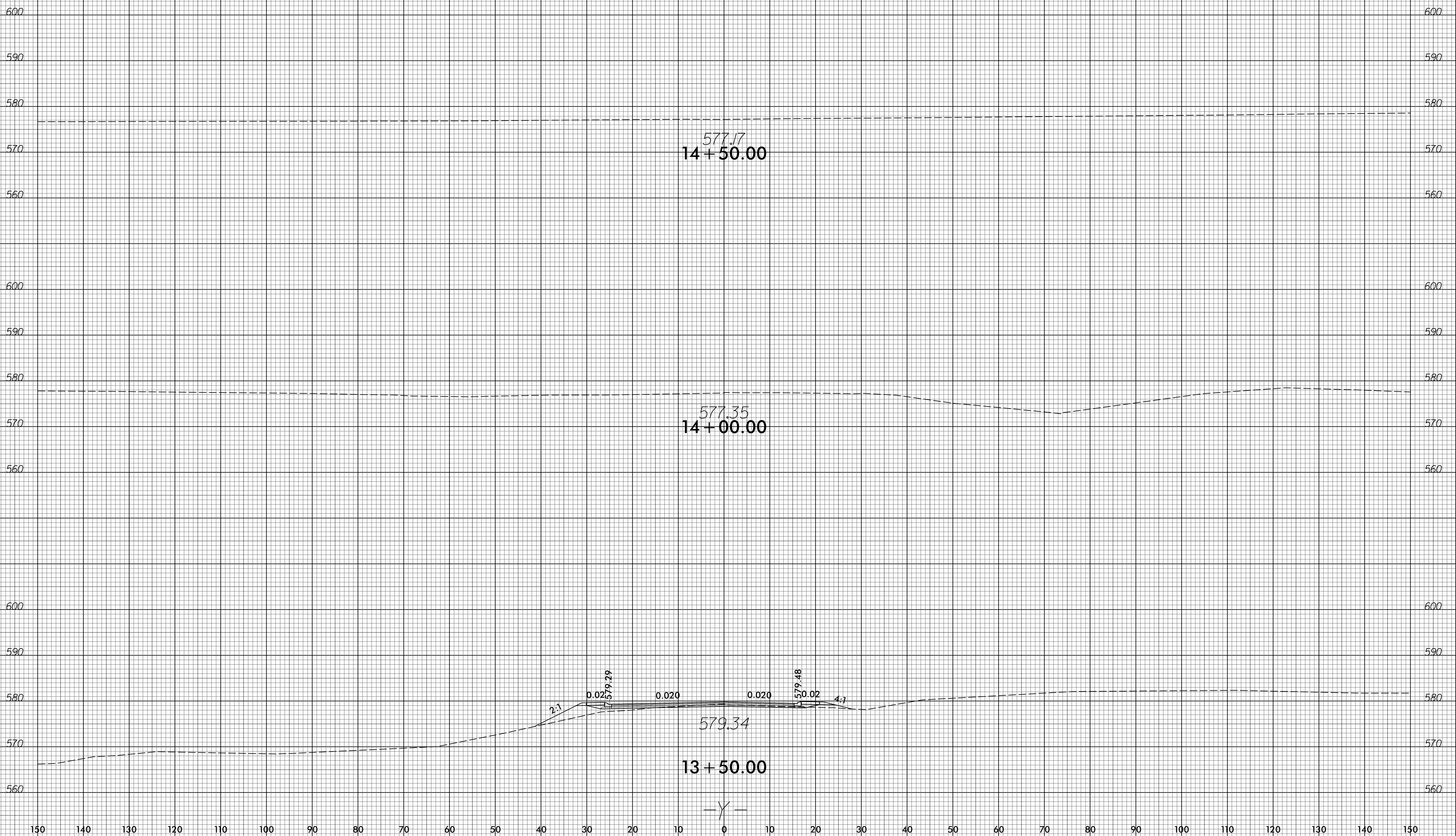
6/23/16



PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-12

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577.17
14 + 50.00

577.35
14 + 00.00

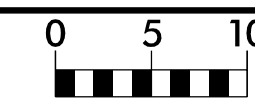
579.34
13 + 50.00

2:1
0.020
0.020
4:1
579.29
579.48

-Y-

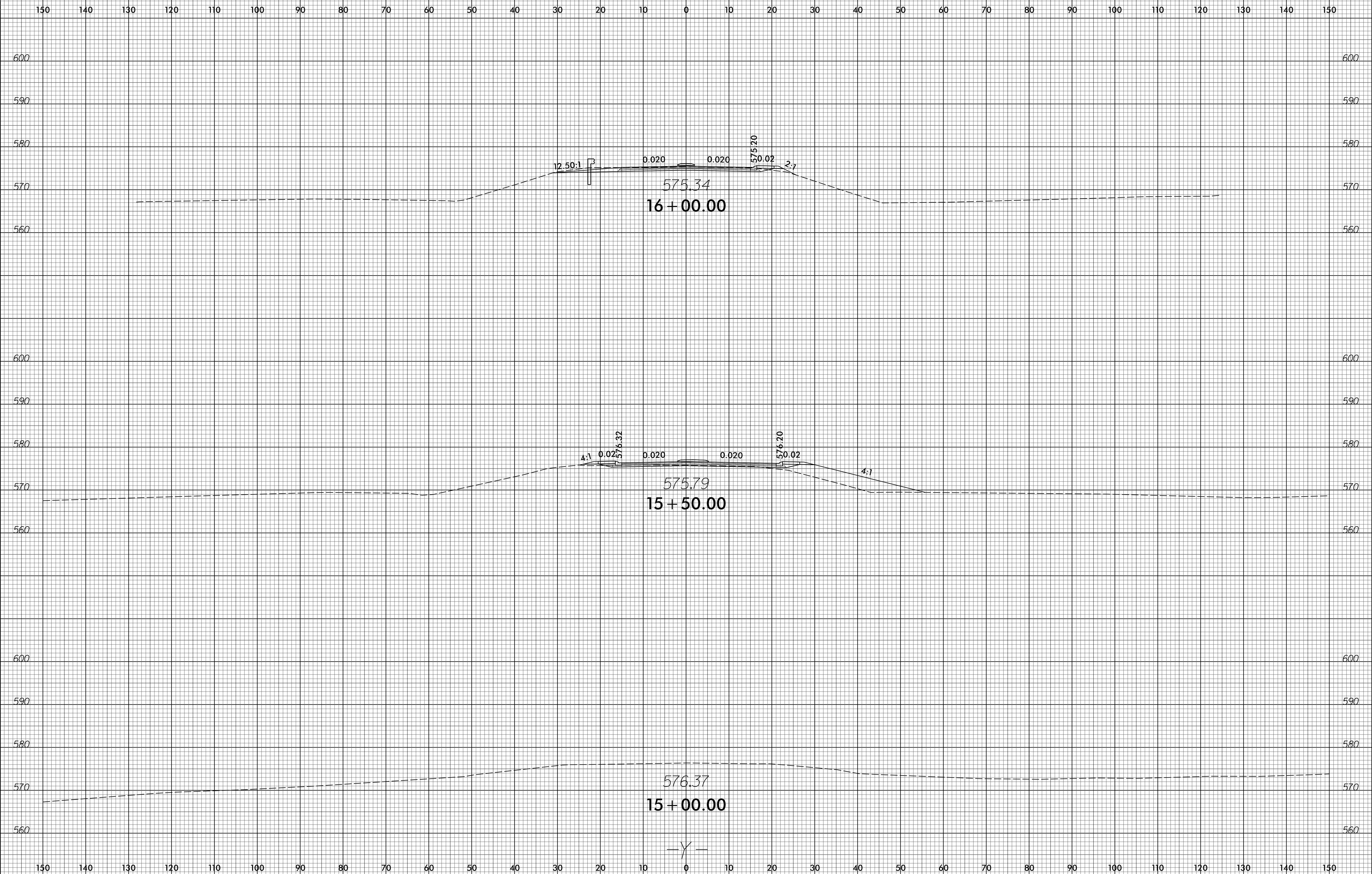
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6/23/16



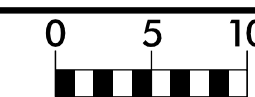
PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-13



3/10/2021
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MFR:glu

6/23/16

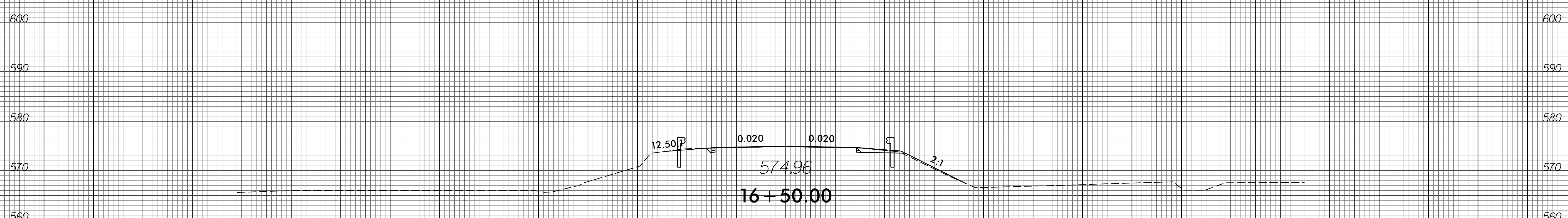
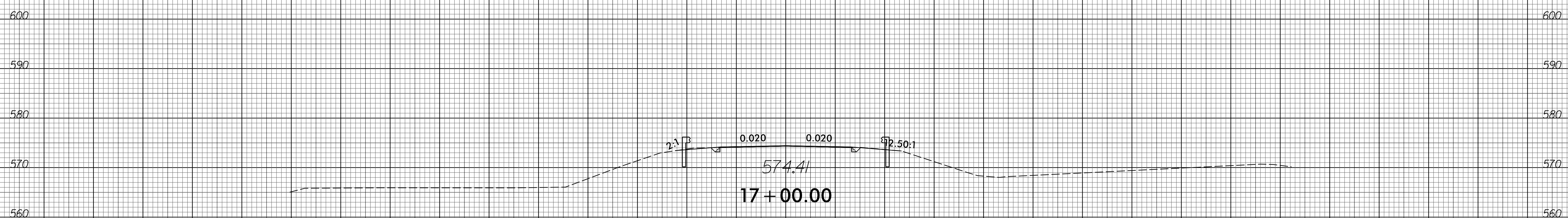
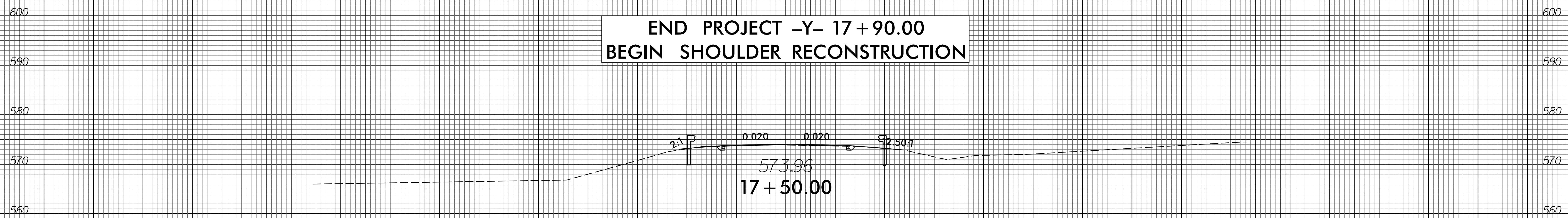


PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-14

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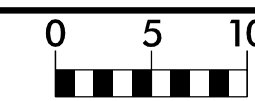
END PROJECT -Y- 17+90.00
BEGIN SHOULDER RECONSTRUCTION



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

3/10/2021
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6/23/16

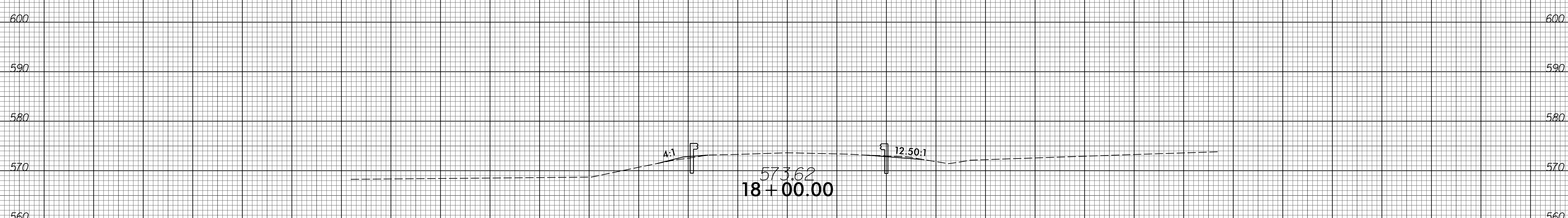
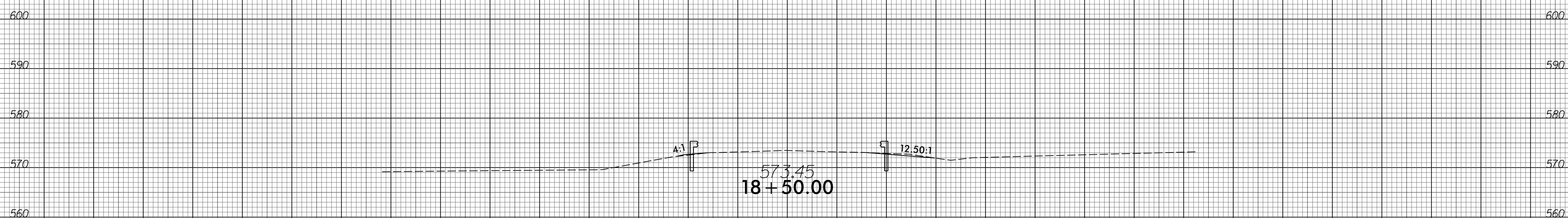
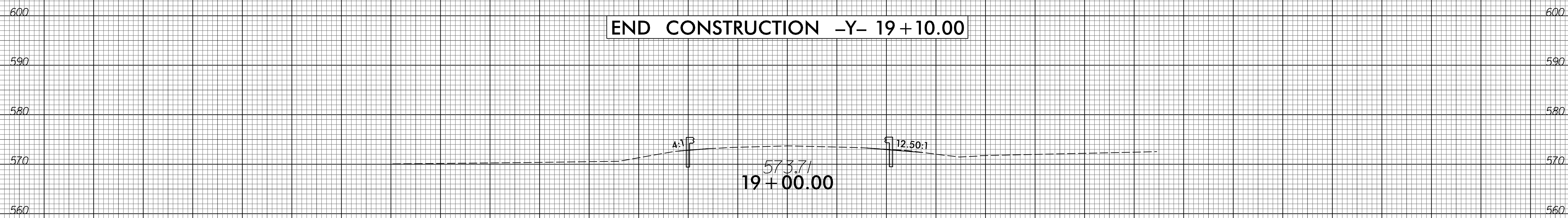


PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-15

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END CONSTRUCTION -Y- 19+10.00

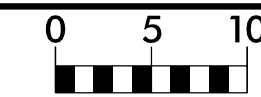


-Y-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

3/10/2021
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6/23/16



PROJ. REFERENCE NO.
W-5710AG

SHEET NO.
X-16

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

600
590
580
570
560

600
590
580
570
560

574.11
19 + 50.00

-Y-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

3/10/2021
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