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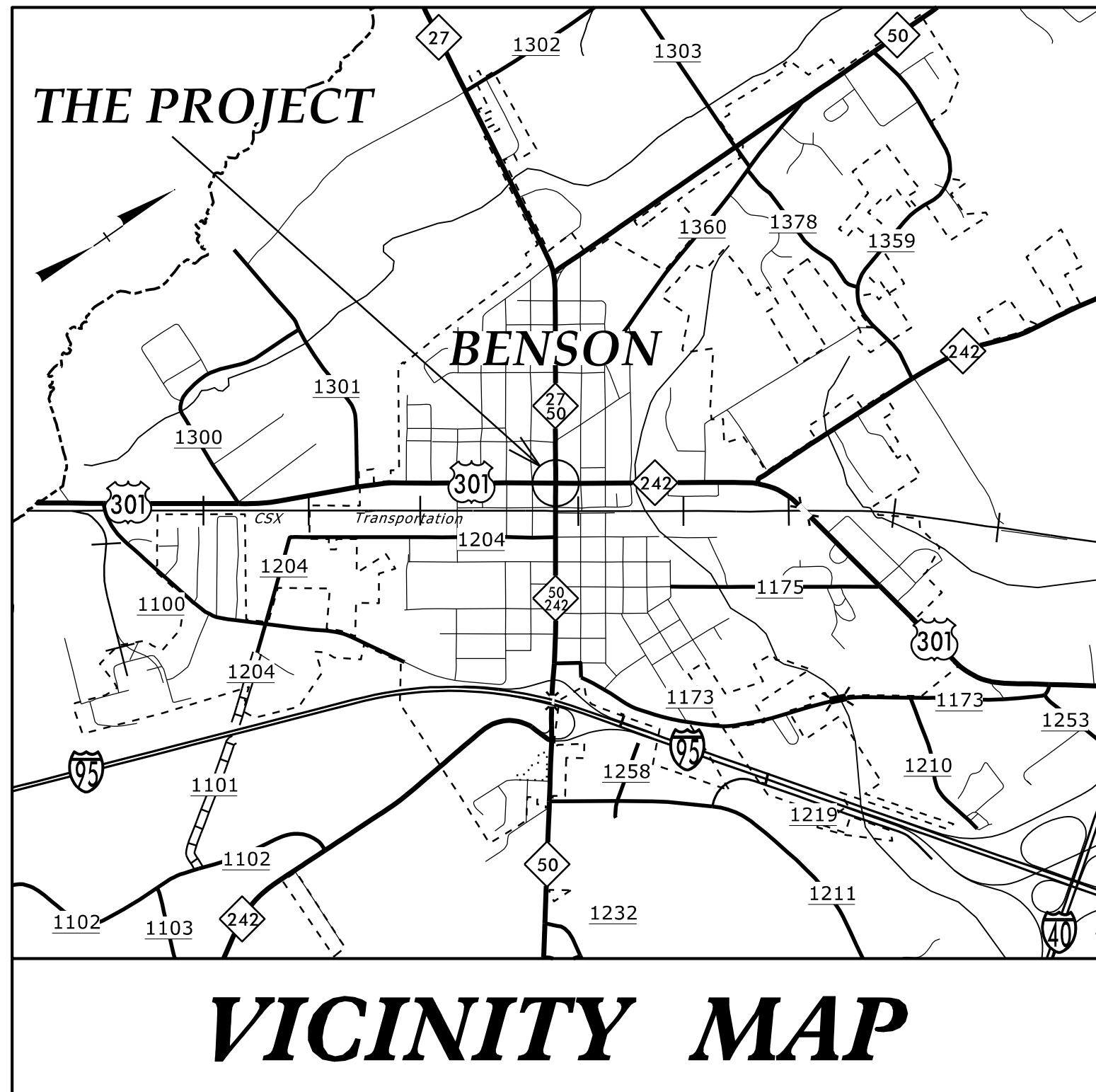
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**This file or an individual page
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CONTRACT: DD00398

TIP PROJECT: W-5704H

See Sheet 1-A For Index of Sheets



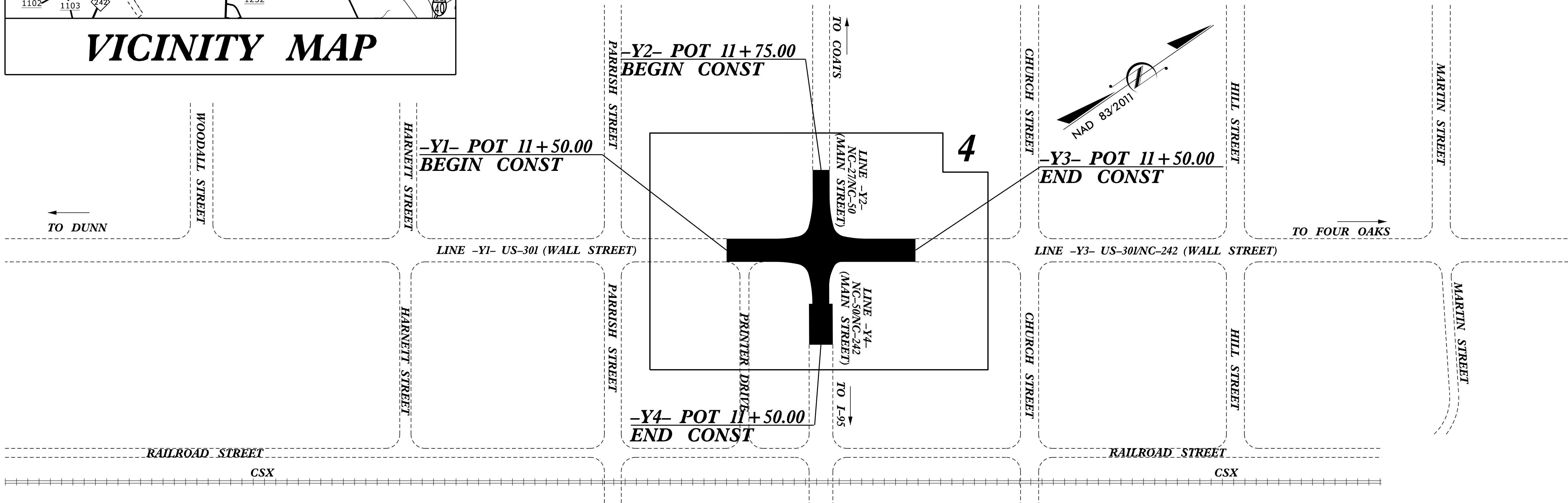
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

JOHNSTON COUNTY

LOCATION: US-301/NC-242 (WALL STREET) AND NC-50/NC-242 (MAIN STREET) INTERSECTION.

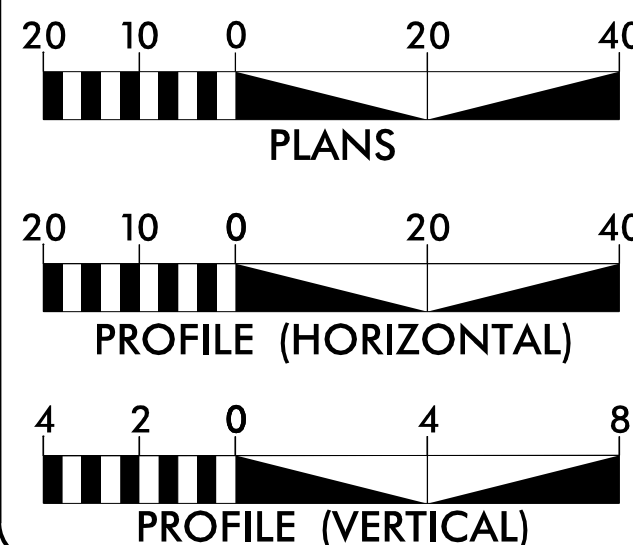
TYPE OF WORK: GRADING, DRAINAGE AND PAVING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5704H	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
44850.1.8	HSIP-0301(044)	PE	
44850.2.8	HSIP-0301(044)	RW & UTILITY	
44850.3.8	HSIP-0301(044)	CONST	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2016 = 9500

FUNCTIONAL CLASS
MINOR ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5704H = 0.063 MILES
TOTAL LENGTH TIP PROJECT W-5704H = 0.063 MILES

NOTE: LENGTH -Y1-, -L- & -Y3-

Prepared in the Office of:
DIVISION OF HIGHWAYS

Division 4 DDC
509 Ward Blvd., Wilson NC, 27895

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH 21, 2019

LETTING DATE:
AUGUST 9, 2022

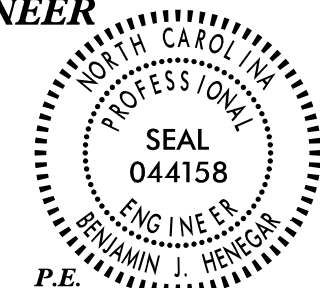
KEVIN BOWEN, PE
PROJECT ENGINEER

D.R. ETHRIDGE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

07/06/2022

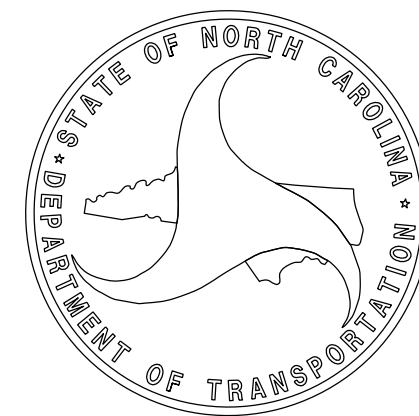
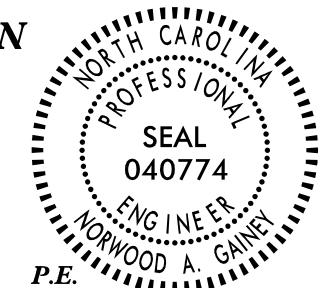
DocuSigned by:
Benjamin J. Penegar
SIGNATURE:



ROADWAY DESIGN ENGINEER

07/06/2022

DocuSigned by:
Norwood A. Gentry III
SIGNATURE:



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJ. REFERENCE NO.	SHEET NO.
W-5704H	I-A

07/05/2011

ROADWAY DESIGN ENGINEER



DocuSigned by:

Norwood A. Gainey III

ED08B50A4504AB

SHEET NUMBER	SHEET	INDEX OF SHEETS
01	TITLE SHEET	
01A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS	
01B	CONVENTIONAL SYMBOLS	
02A-1 THRU 02A-2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS	
02C-1	SPECIAL DETAIL - CURB RAMPS	
03B-1	ROADWAY SUMMARIES - EARTHWORK, PARCEL INDEX, AND REMOVAL OF EXISTING PAVEMENTS.	
03D-1	DRAINAGE SUMMARIES	
04	PLAN SHEET	
05	PROFILE SHEET	
RW02C-1 THRU 1RW02C-3	SURVEY CONTROL, EXISTING CENTERLINES RIGHT OF WAY, EASEMENTS AND PROPERTY TIES	
TMP-1 THRU TMP-4	TRANSPORTATION MANAGEMENT PLANS	
PM-1 THRU PM-4	PAVEMENT MARKING PLANS	
SIGN-1 THRU SIGN-5	SIGNING PLANS	
UBO-1 THRU UBO-4	UTILITIES BY OTHERS PLANS	
X-1A	CROSS-SECTION SUMMARY	
X-1 THRU X-17	CROSS-SECTIONS	

2018 ROADWAY ENGLISH STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"
HIGHWAY DESIGN BRANCH - N. C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N. C.,
DATED JANUARY, 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

- DIVISION 2 - EARTHWORK
- 200.02 METHOD OF CLEARING - METHOD II
- 225.02 GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
- DIVISION 3 - PIPE CULVERTS
- 300.01 METHOD OF PIPE INSTALLATION
- DIVISION 6 - ASPHALT BASES AND PAVEMENTS
- 654.01 PAVEMENT REPAIRS
- DIVISION 8 - INCIDENTALS
- 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
- 840.25 ANCHORAGE FOR FRAMES - BRICK OR CONCRETE OR PRECAST
- 840.29 FRAMES AND NARROW SLOT FLAT GRATES
- 840.34 TRAFFIC BEARING JUNCTION BOX - FOR USE WITH PIPES 42" AND UNDER
- 840.35 TRAFFIC BEARING GRATED DROP INLET - FOR CAST IRON DOUBLE FRAME AND GRATES
- 840.45 PRECAST DRAINAGE STRUCTURE
- 840.46 TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE
- 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
- 848.05 CURB RAMP - PROPOSED CURB & GUTTER
- 848.06 CURB RAMP - EXISTING CURB & GUTTER
- 852.02 CONCRETE MOUNTABLE MEDIAN - FOR USE WITH RIGID OR FLEXIBLE PAVEMENT
- 876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS

GENERAL NOTES: 2018 SPECIFICATIONS

GRADE LINE:

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 II.

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.

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:
PIEDMONT NATURAL GAS, SPECTRUM, CENTURYLINK AND TOWN OF BENSON (POWER).

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

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

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	
Computed Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Exist Permanent Easment 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	
New Right of Way Line with Pin and Cap	
New Right of Way Line with Concrete or Granite RW Marker	
New Control of Access Line with Concrete CA Marker	
Existing Control of Access	
New Control of Access	
Existing Easement Line	
New Temporary Construction Easement	
New Temporary Drainage Easement	
New Permanent Drainage Easement	
New Permanent Drainage / Utility Easement	
New Permanent Utility Easement	
New Temporary Utility Easement	
New Aerial Utility Easement	

ROADS AND RELATED FEATURES:

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

VEGETATION:

Single Tree	
Single Shrub	

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Hedge	
Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

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

UTILITIES:

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.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	

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.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

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	

TV:

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

GAS:

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

SANITARY SEWER:

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

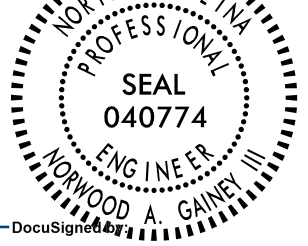
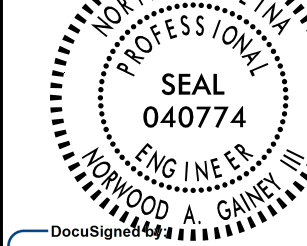
MISCELLANEOUS:

Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U.E.*)	
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	
End of Information	

6/2/99

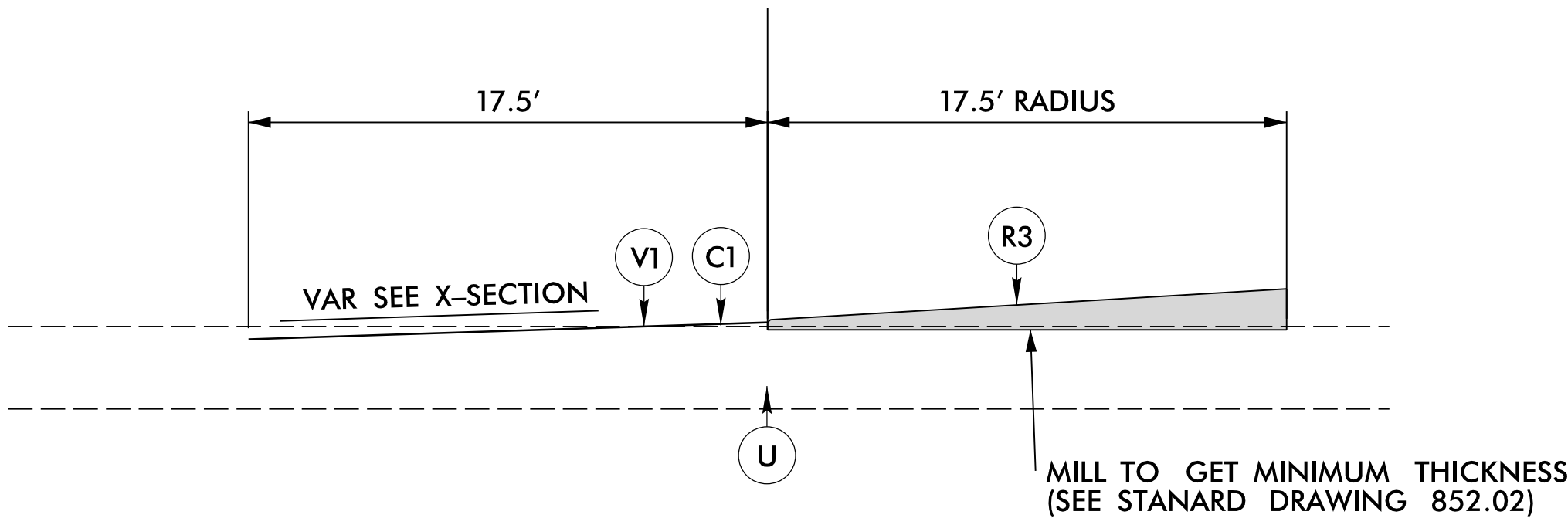
24-JAN-2022 14:07
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PAVEMENT SCHEDULE					
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.	E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.	T1	EARTH MATERIAL.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD. IN EACH OF TWO LAYERS.	E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0, 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 5.5" IN DEPTH.	U1	EXISTING PAVEMENT.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YARD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" DEPTH.	R1	2'-6" CONCRETE CURB AND GUTTER.	V1	VAR. 0"-3" MILLING
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.	R2	2'-0" CONCRETE VALLEY GUTTER	W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.	R3	CONCRETE MOUNTABLE MEDIAN	NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.	

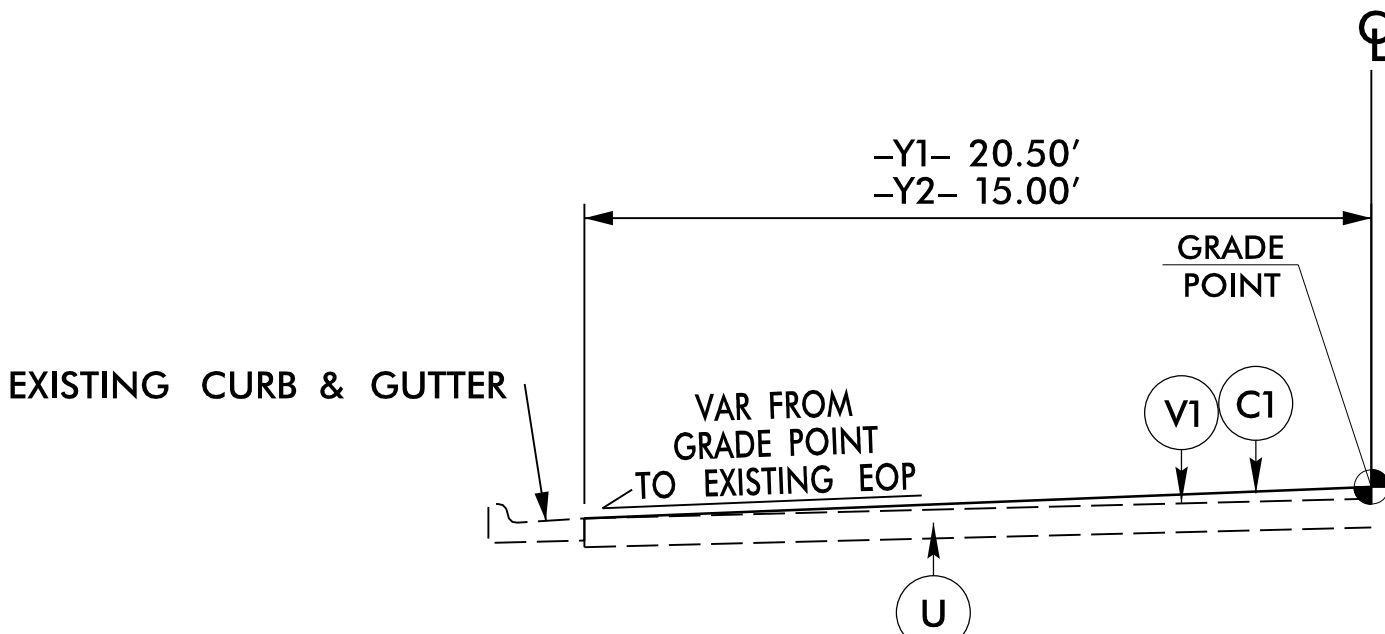
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W-5704H		2A-1
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Digitally signed by Norwood A. Gaines III E0088850A450448	Digitally signed by Norwood A. Gaines III E0088850A450448	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

USE TYPICAL SECTION NO. 1

-L- STA 10+00 TO -L- STA 11+09.96

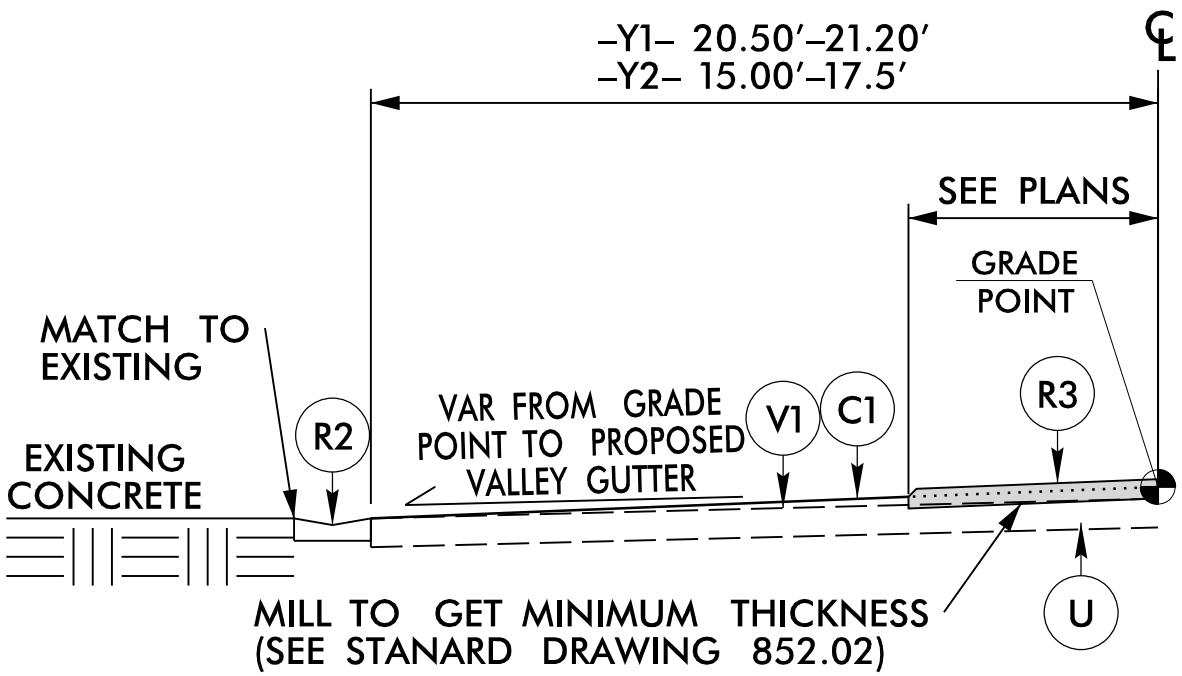


TYPICAL SECTION NO. 1



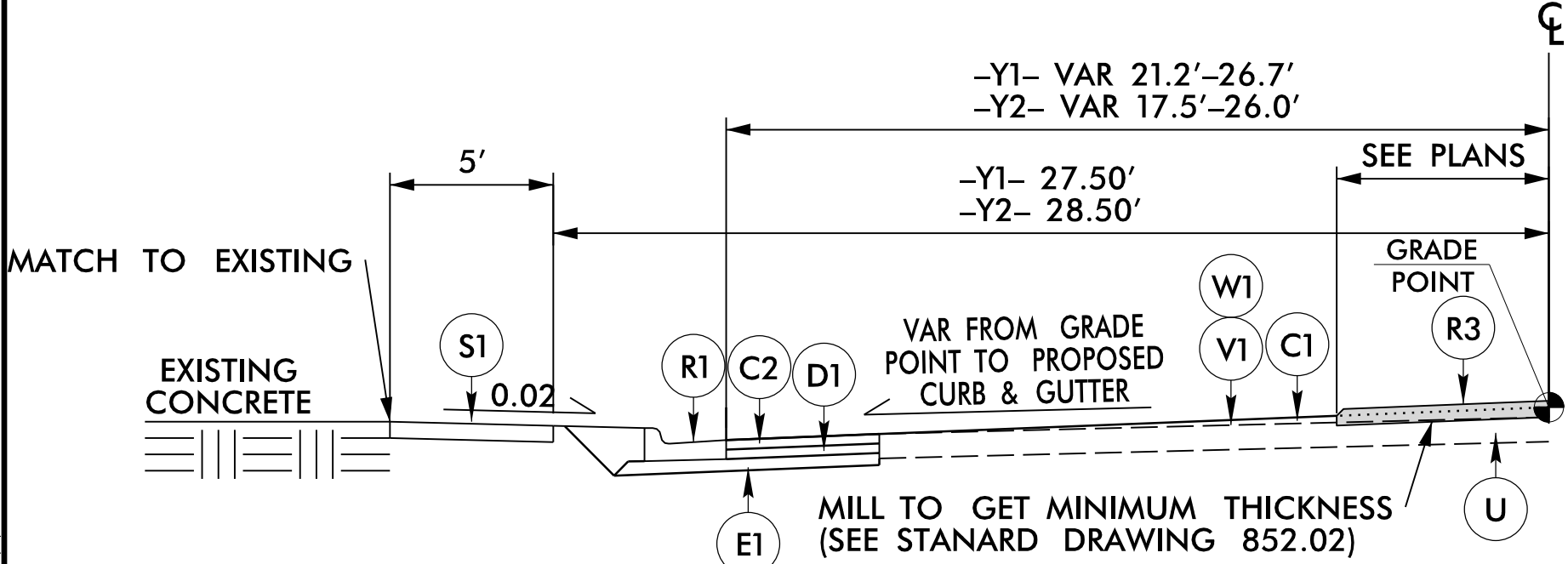
TYPICAL SECTION NO. 2

-Y1- STA. 11+50.00 TO STA. 11+85.00 (LEFT)
-Y1- STA. 11+50.00 TO STA. 12+27.50 (RIGHT, MIRROR IMAGE)
-Y2- STA. 11+75.00 TO STA. 12+20.93 (LEFT), (RIGHT, MIRROR IMAGE)
-Y3- STA. 10+17.50 TO STA. 10+67.50 (RIGHT, MIRROR IMAGE) ADD MOUNTABLE MEDIAN
-Y4- STA. 10+77.50 TO STA. 11+50.00 (LEFT), (RIGHT, MIRROR IMAGE) ADD MOUNTABLE MEDIAN



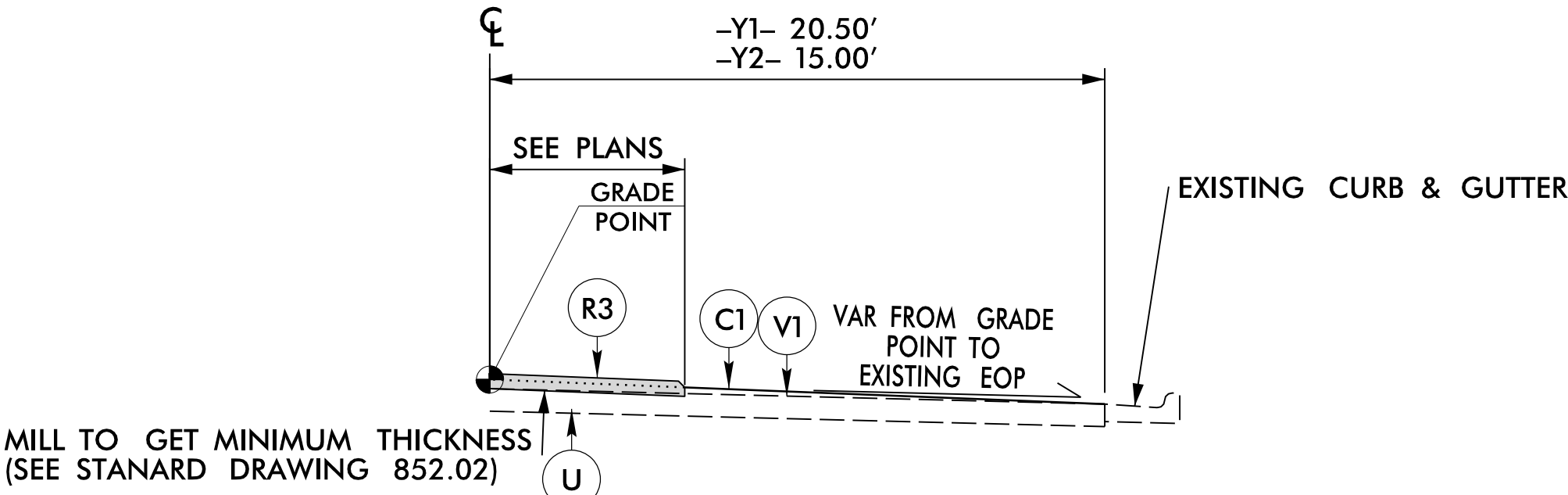
TYPICAL SECTION NO. 3

-Y1- STA. 11+85.00 TO STA 12+52.50 (LEFT) MOUNTABLE MEDIAN STARTS 12+27.50
-Y2- STA. 12+20.93 TO STA 12+52.50 (RIGHT, MIRROR IMAGE)



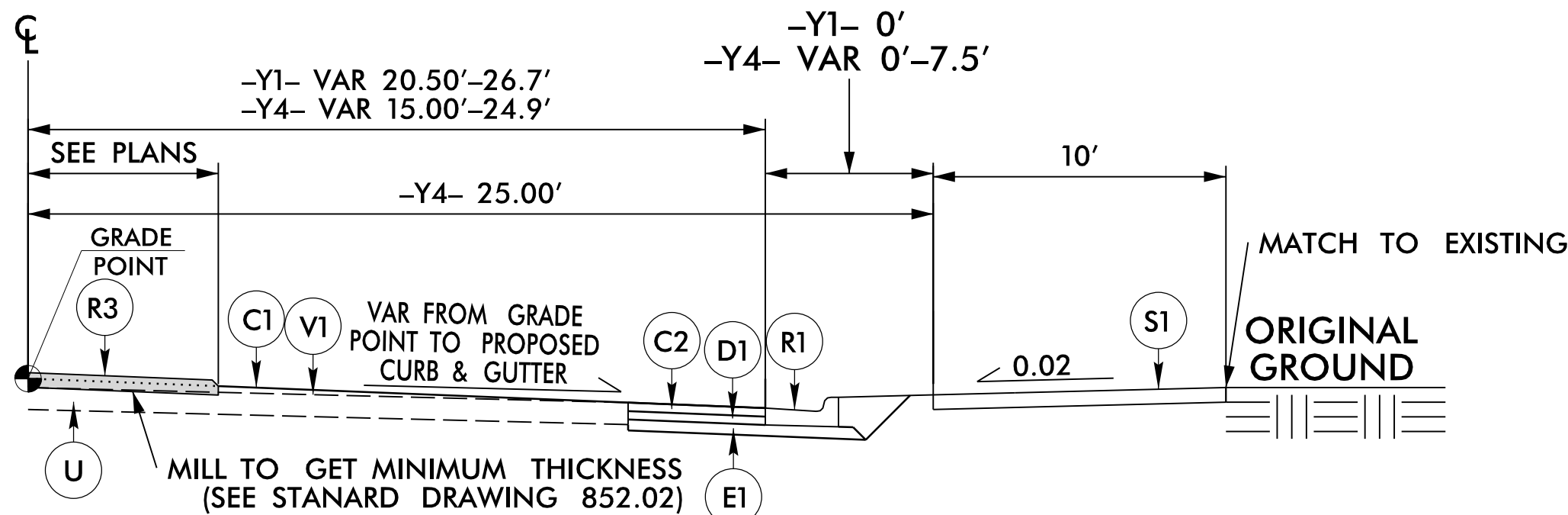
TYPICAL SECTION NO. 4

-Y1- STA. 12+52.50 TO STA. 12+82.50 (LEFT)
-Y2- STA. 12+52.50 TO STA. 12+82.50 (RIGHT, MIRROR IMAGE)
-Y4- STA. 10+17.50 TO STA. 10+77.50 (LEFT, NO NEW SIDEWALK)

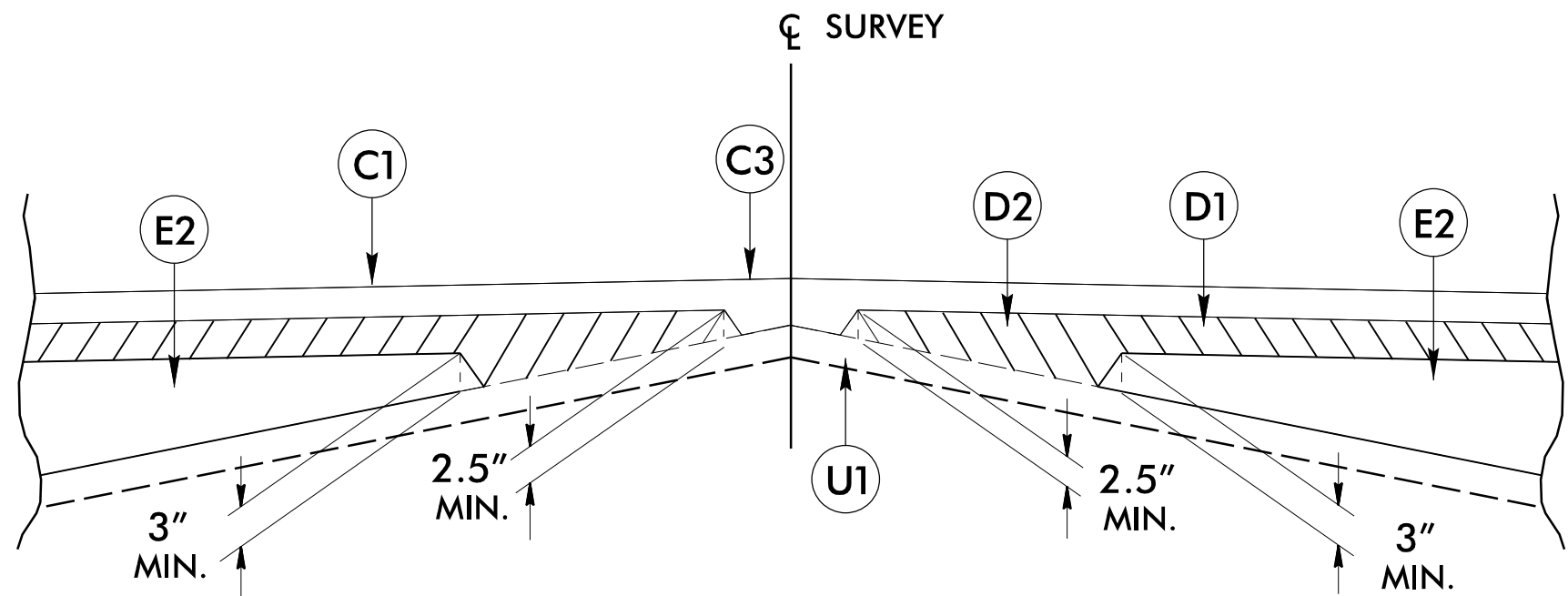


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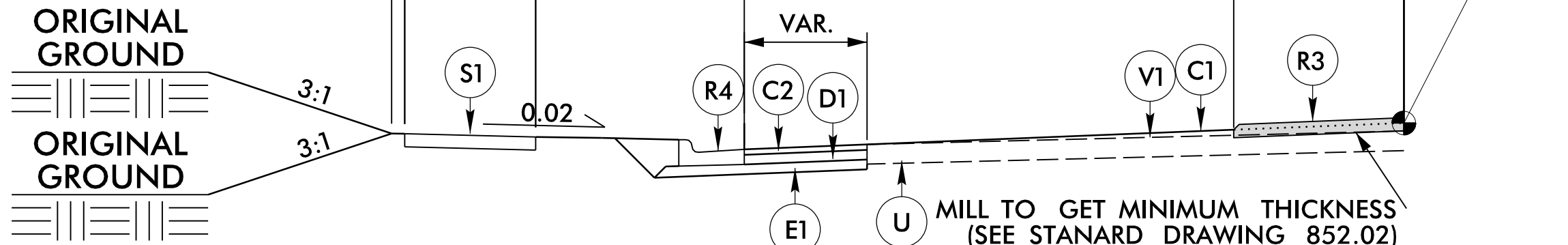
-Y1- STA. 11+27.50 TO STA. 12+32.50 (RIGHT)
-Y2- STA. 12+20.93 TO STA. 12+24.33 (LEFT, MIRROR IMAGE)



TYPICAL SECTION NO. 6
-Y1- STA. 12 + 32.50 TO STA. 12 + 82.50 (RIGHT)
-Y4- STA. 10 + 17.50 TO STA. 10 + 77.50 (RIGHT)



Detail Showing Method of Wedging



TYPICAL SECTION NO. 7
-Y3- 10 + 67.50 TO 10 + 92.50 (LEFT & RIGHT)
MILL 1.5" RESURFACE 1.5" C1(S9.5B) WITH MM
-Y3- 10 + 92.50 TO 11 + 50.00 (LEFT & RIGHT)
MILL 1.5" RESURFACE 1.5" C1(S9.5B)
-Y2- STA. 12 + 24.33 TO STA. 12 + 52.50 (LEFT) NO SIDEWALK
-Y2- STA. 12 + 52.50 TO STA. 12 + 82.50 (LEFT)
-Y3- STA. 10 + 17.50 TO STA. 10 + 67.50 (LEFT)

PROJECT REFERENCE NO.	SHEET NO.
W-5704H	2A-2
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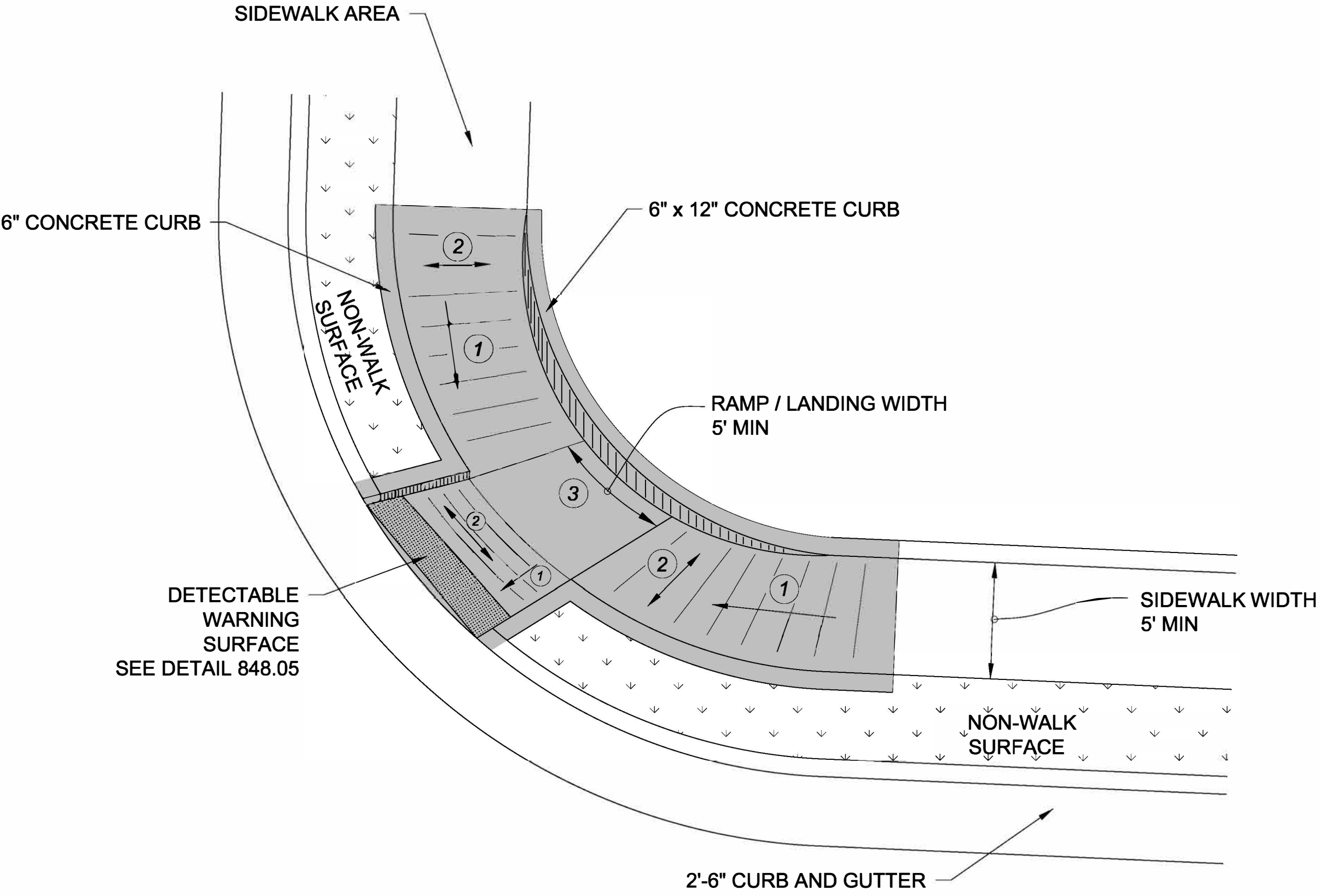
PAVEMENT SCHEDULE	
C1	1.5" S9.5C
C2	3" S9.5C
C3	VAR S9.5C
D1	4" I19.0C
D2	VAR I19.0C
E1	4" B25.0C
E2	VAR B25.0C
R1	2.5' C&G
R2	2' VALLEY GUTTER
R3	MOUNTABLE MEDIAN
T1	EARTH MATERIAL
U1	EXIST. PAVEMENT
V1	0"-3" MILLING
W1	WEDGING

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

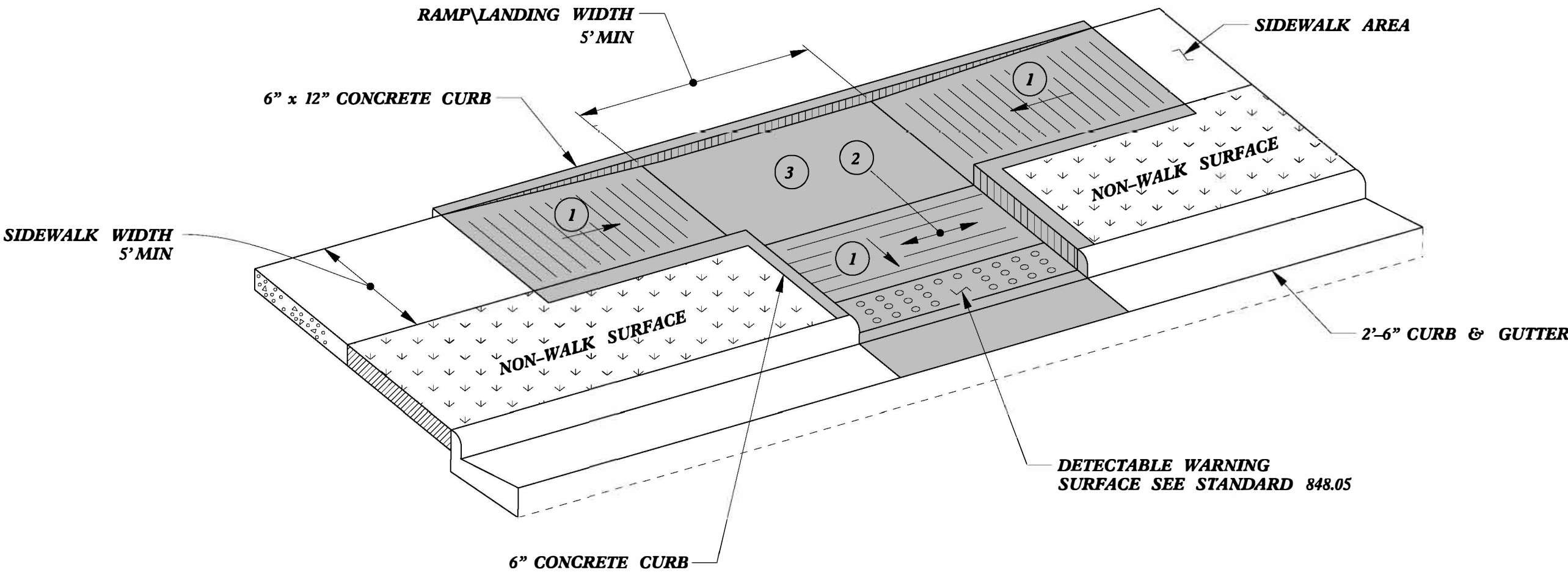
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
W-5704H	2C-1

PAY LIMITS FOR 1 CURB RAMP



TYPE 3 MODIFIED
INSTALLATION IN A RADIUS



TYPE 3

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



07/05/2022

DocuSigned by:
Ron Davenport
F81B6038A7A4E2

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	

[illegible]

8/17/99

NATHAN BLACKMAN
DB 1032 PG 294

ROBIN HOOD FAMILY TRUST
DB 4082 PG 839

JAMES GORDON
DB 4655 PG 853

PROJECT REFERENCE NO.

W-5704H

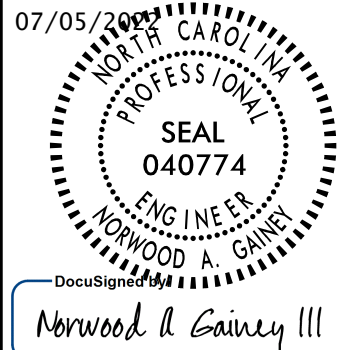
SHEET NO.

04

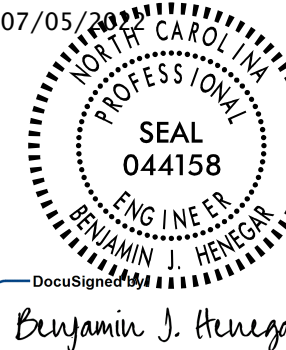
R/W SHEET NO.

04

ROADWAY DESIGN
ENGINEER



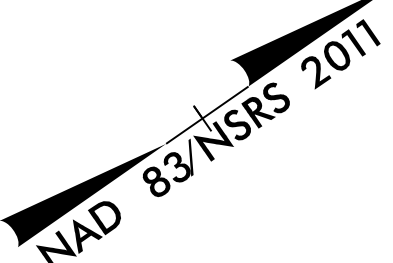
HYDRAULICS
ENGINEER



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

BENSON BAPTIST CHURCH
NO DEED ON RECORD

PROF CONC SIDEWALK



JAMES GORDON
DB 3198 PG 626

-Y3- POT 11+50.00
END CONST
END RESURFACING

N 34° 48' 14.8" E
LINE -Y3-

PI Sta 10+18.19
Δ = 92° 12' 59.9" (RT)
D = 327' 24' 16.0"
L = 28.17'
T = 18.19'
R = 17.50'

PI Sta 10+45.00
Δ = 87° 46' 58.2" (RT)
D = 327' 24' 16.0"
L = 26.81'
T = 16.84'
R = 17.50'

PI Sta 10+73.17
Δ = 92° 12' 59.9" (RT)
D = 327' 24' 16.0"
L = 28.17'
T = 18.19'
R = 17.50'

PI Sta 10+99.98
Δ = 87° 47' 02.0" (RT)
D = 327' 24' 16.0"
L = 26.81'
T = 16.84'
R = 17.50'

REVISIONS

05-JUL-2022 14:20
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Division 4 DDC

PROJECT REFERENCE NO.
W-5704H

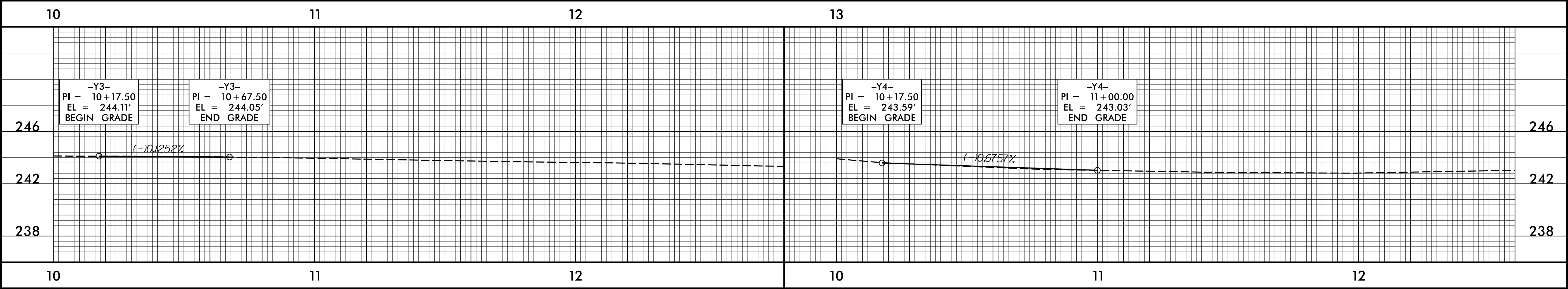
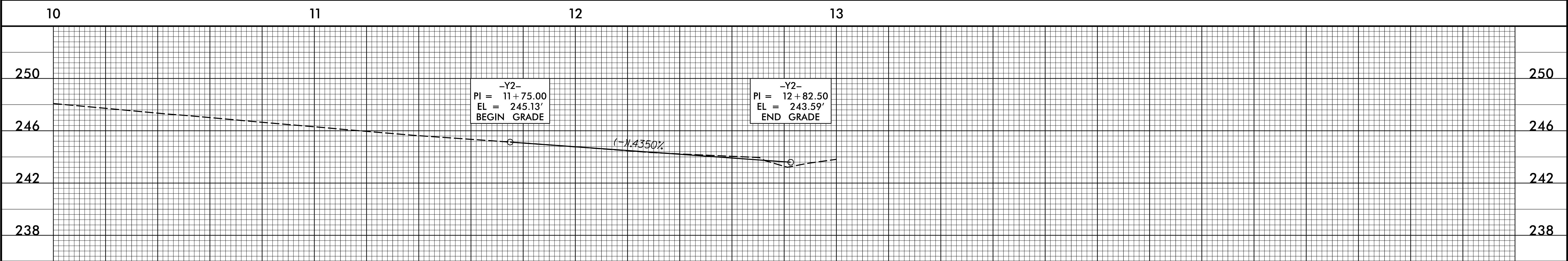
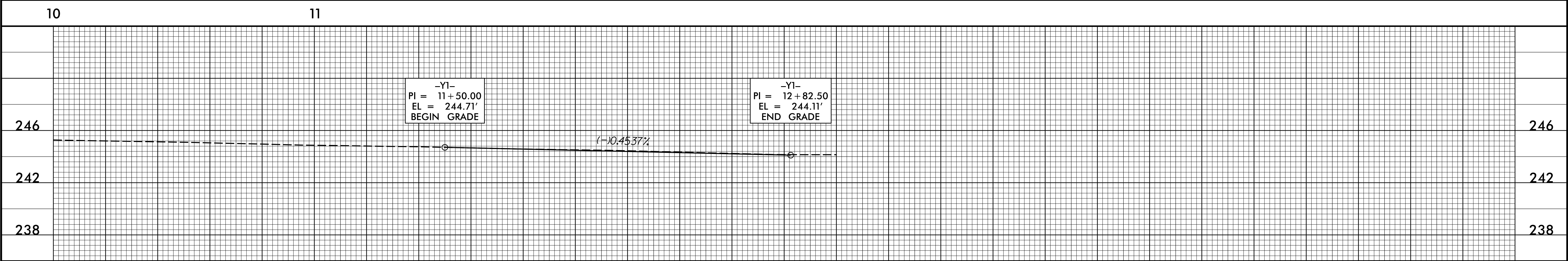
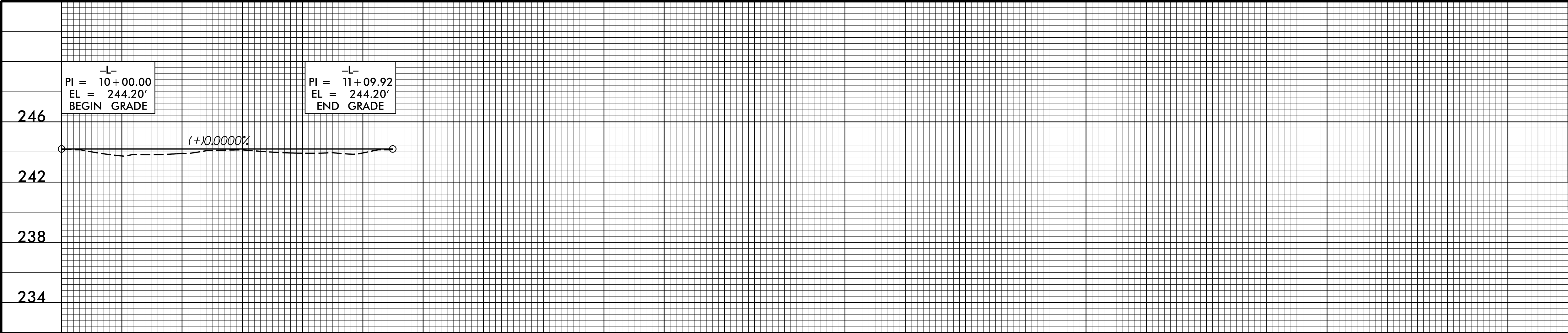
SHEET NO.
05

R/W SHEET NO.
05

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NORWOOD A. GAINES III
F0088650430418

HYDRAULICS ENGINEER
01/24/2024 11:54 AM PST
NORTH CAROLINA PROFESSIONAL SEAL
044158
BENJAMIN J. HENEGAR
DTR04884947437

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		W5704H BL1	593942.5830	2134192.8200	244.62
2		W5704H BL2	594317.3890	2134428.2400	243.95
3		W5704H BL3	594537.9690	2134601.6340	242.36

BY	POINT	DESC.	NORTH	EAST	ELEVATION
4		W5704H BY4	594500.4380	2134144.0380	248.93
22		BL-BY EQUALITY	594317.3890	2134428.2400	243.95
5		W5704H BY5	594025.4780	2134736.3180	243.55

```

*****
BM1          ELEVATION = 223.17
N 595198      E 2135135
EY1 STATION 10+40.00 1163 LEFT
BENCH NAIL IN BASE OF 24" PINE
*****

```

```

*****
BM2          ELEVATION  = 245.55
N 594254      E 2134395
EY1 STATION 10+00.00
S 79°30'52.1" W      DIST 48.07
BOLT ON SIGN POST
*****

```

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.

6/2/99

REVISIONS

\$\$\$SYTIME\$\$\$
\$\$\$SYSDG\$\$\$
\$\$\$SYSERNAME\$\$\$

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL				
POINT	N	E	BEARING	DIST
POT	593967.987	2134236.867		
LINE			N 34°48'14.8" E	719.41
POT	594558.699	2134647.486		

EY				
POINT	N	E	BEARING	DIST
POT	594462.717	2134154.503		
LINE			S 55°26'07.9" E	350.00
POT	594264.152	2134442.722		

EY1				
POINT	N	E	BEARING	DIST
POT	594262.912	2134441.877		
LINE			S 55°26'07.9" E	360.00
POT	594058.671	2134738.335		

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.

REVISIONS

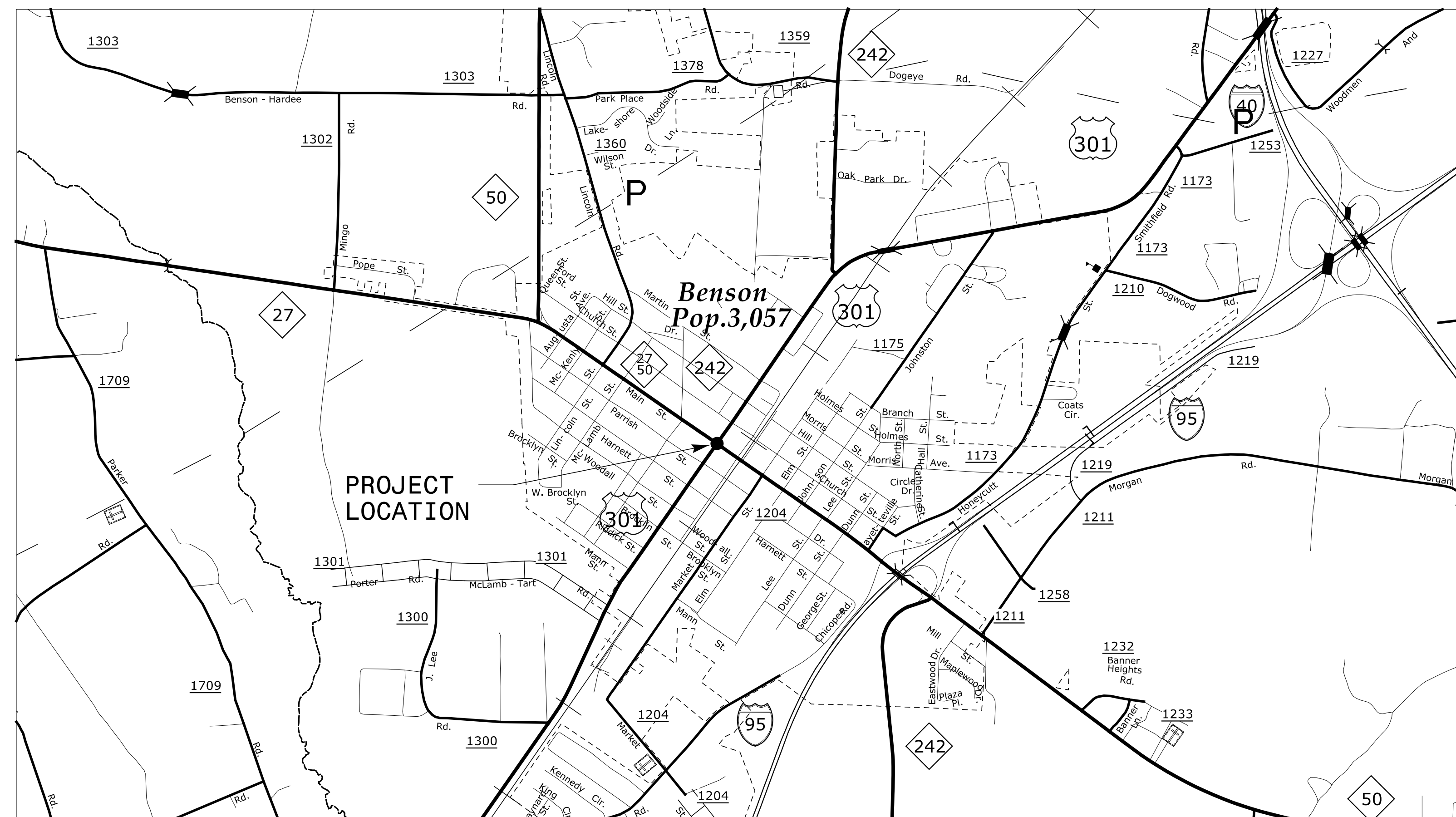
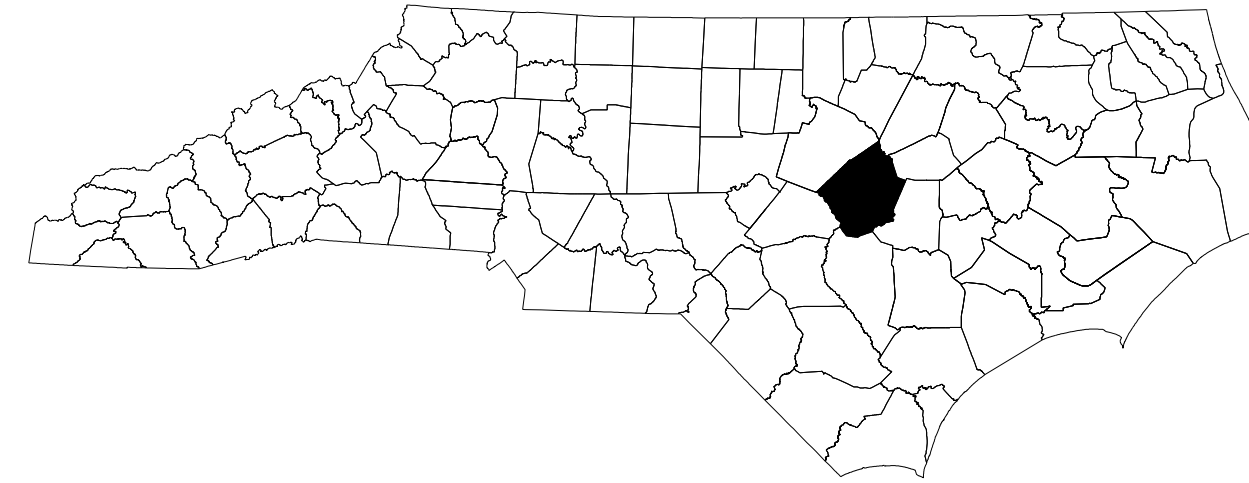
6/2/99

\$SYTIME\$\$\$\$\$
\$DGN\$\$\$\$\$
\$USERNAME\$\$\$\$\$

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

JOHNSTON COUNTY

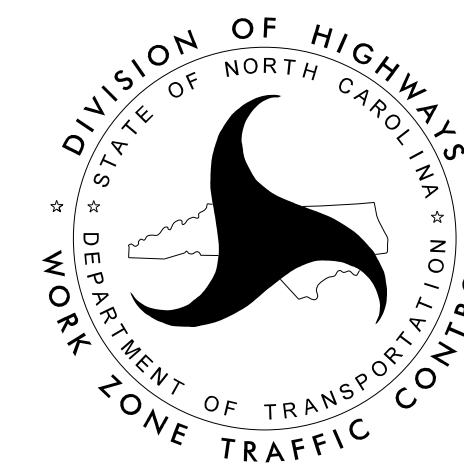


VICINITY MAP
NOT TO SCALE



JOHN TOWNSEND, PE (VHB)

COREY MCLAMB, PE
PROJECT DESIGN ENGINEER



<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES)
TMP-2 THRU TMP-2A	DETOUR SIGNING - TRUCKS
TMP-2B	DETOUR SIGNING - LOCAL TRAFFIC
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL

John Townsend

8/24/2021

A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "JOHN G. TOWNSEND" at the bottom. Inside this, the words "PROFESSIONAL" and "ENGINEER" are written in an arc. In the center, the word "SEAL" is above the license number "031533". The signature "John Townsend" is written in cursive over the left side of the seal. The date "8/24/2021" is printed in the bottom left corner of the page.

8/24/2021

MP-1

H40LS-MW-5704H

TIP PROJECT:

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - 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 WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD 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	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

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

WHITE CROSSWALK LINE

PAINT (8")

8/24/2021
R:\TrafficControl\TCP\W5704H_tmp-TMP-01A.dgn
User:Jtownsend



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

APPROVED: _____

DATE: _____

8/24/2021

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ROADWAY STANDARD
DRAWINGS & LEGEND

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 UNDESIRE

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 DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:
- | ROAD NAME | HOLIDAY |
|-------------|---------|
| MAIN STREET | |
| WALL STREET | |
- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
 - FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
 - FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
 - FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
 - FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 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 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
 - FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
 - FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
 - FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
 - FOR MULE DAYS 2022, BETWEEN THE HOURS OF 6:00 A.M. THE WEDNESDAY OF THE MULE DAYS 2022 AND 6:00 P.M. THE MONDAY AFTER THE MULE DAYS 2022.

- B) DO NOT CLOSE ROADS AS FOLLOWS:
- | ROAD NAME | DAY AND TIME RESTRICTIONS |
|-------------|---|
| MAIN STREET | CLOSURE LIMITED TO 21 CONSECUTIVE CALENDAR DAYS |
| WALL STREET | CLOSURE LIMITED TO 21 CONSECUTIVE CALENDAR DAYS |

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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.
- D) 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.

- E) 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.

- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL 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.

- G) 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- H) 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.

- I) 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) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- J) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- K) 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.

- L) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- M) CONTRACTOR WILL COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

CONTRACTOR WILL COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

- O) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- P) 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.

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
MAIN STREET	PAINT	NONE
WALL STREET	PAINT	NONE

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

- T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

- V) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

- W) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

3/31/2022
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User:jtowndsend



340 Main Campus Drive, Suite 500 Raleigh, NC 27606
NC License No. C-2700

APPROVED: _____

DATE: _____

DocuSigned by
John T. Townsend
882101C41050AC

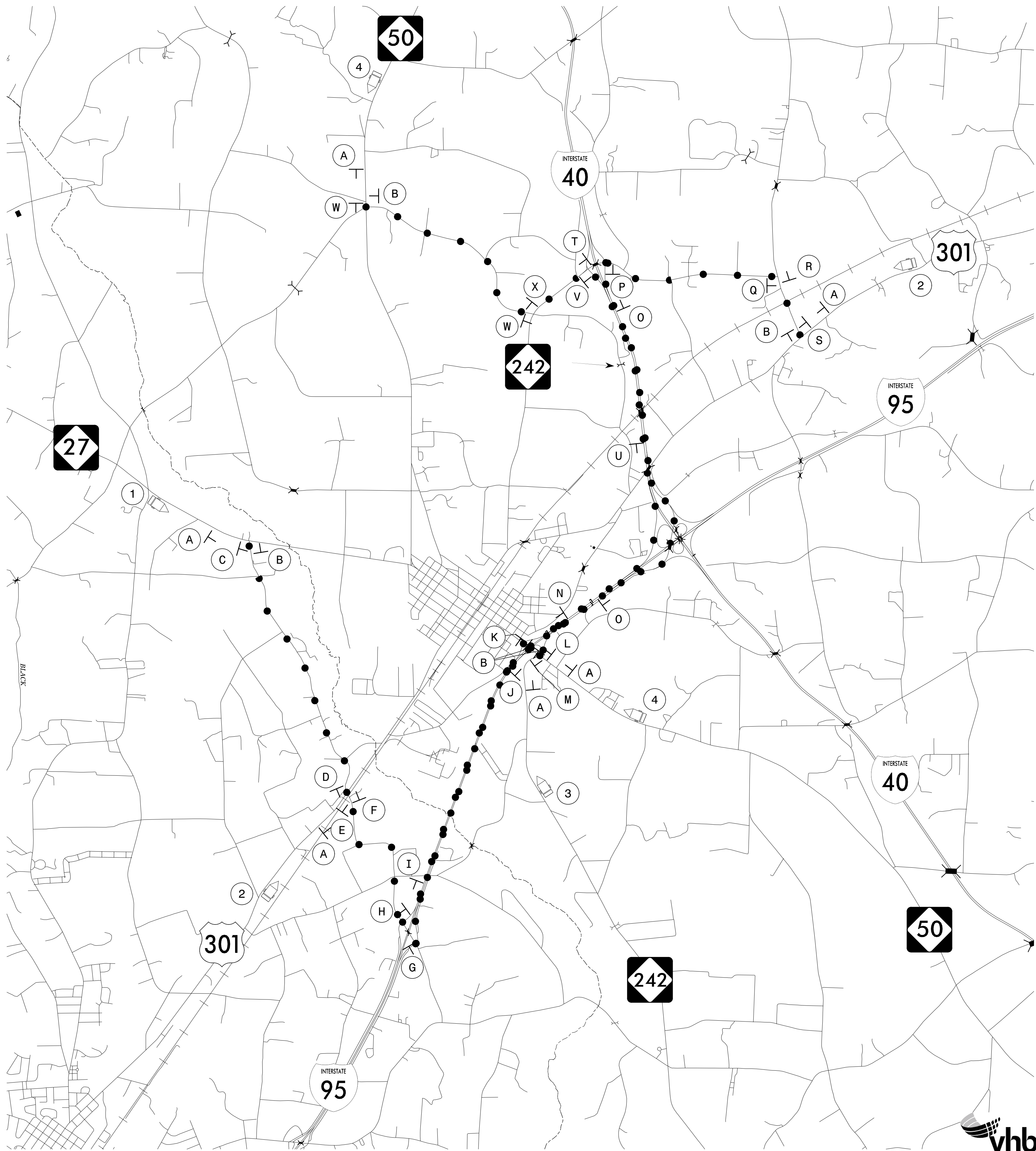
PROFESSIONAL SEAL
031533
JOHN C. TOWNSEND
ENGINEER

3/31/2022

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

TRANSPORTATION
OPERATIONS
PLAN

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PROJ. REFERENCE NO.	SHEET NO.
W-5704H	TMP-2

MESSAGE NO. 1	MESSAGE NO. 2
NC 27 CLOSED @ US 301	THRU TRUCKS DETOUR

CHANGEABLE MESSAGE SIGN

1

MESSAGE NO. 1	MESSAGE NO. 2
US 301 CLOSED @ NC 50	THRU TRUCKS DETOUR

CHANGEABLE MESSAGE SIGN

2

MESSAGE NO. 1	MESSAGE NO. 2
NC 242 CLOSED @ US 301	THRU TRUCKS DETOUR

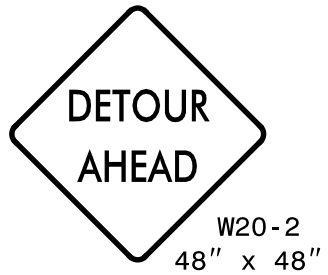
CHANGEABLE MESSAGE SIGN

3

MESSAGE NO. 1	MESSAGE NO. 2
NC 50 CLOSED @ US 301	THRU TRUCKS DETOUR

CHANGEABLE MESSAGE SIGN

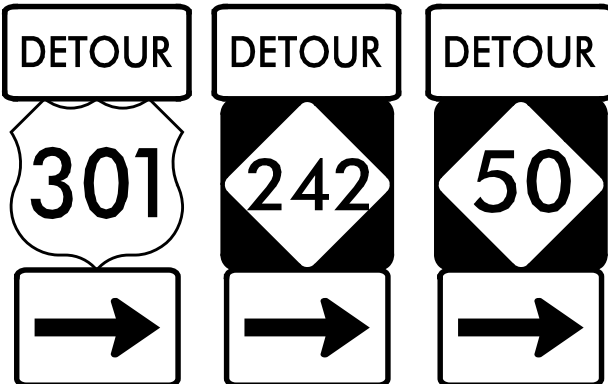
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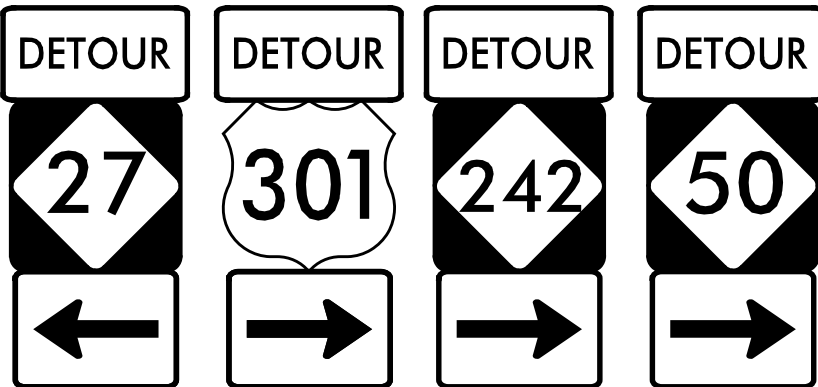
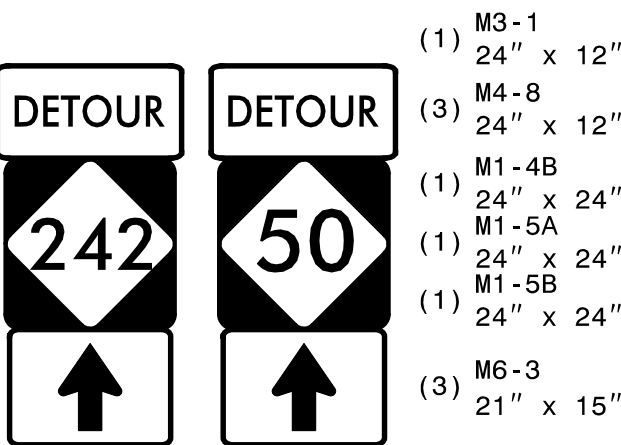
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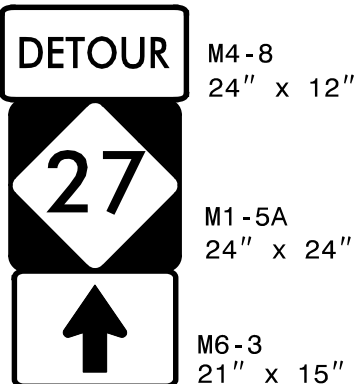
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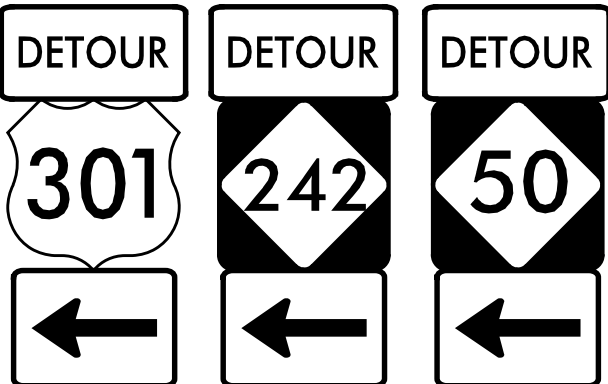
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E



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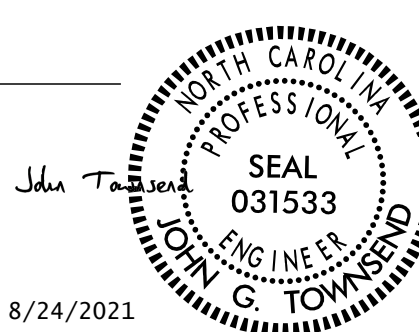


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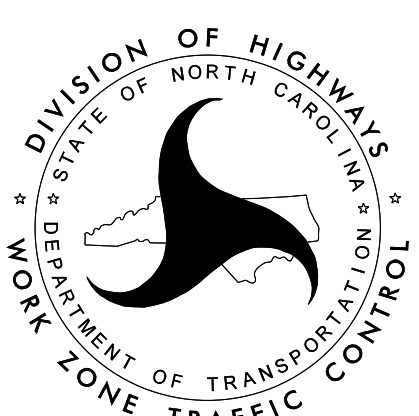
DETOUR ROUTE

APPROVED: _____

DATE: _____



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

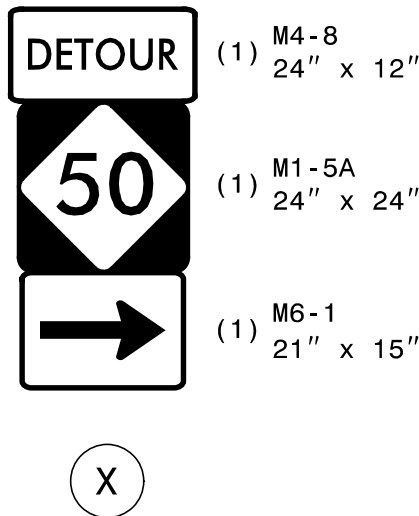
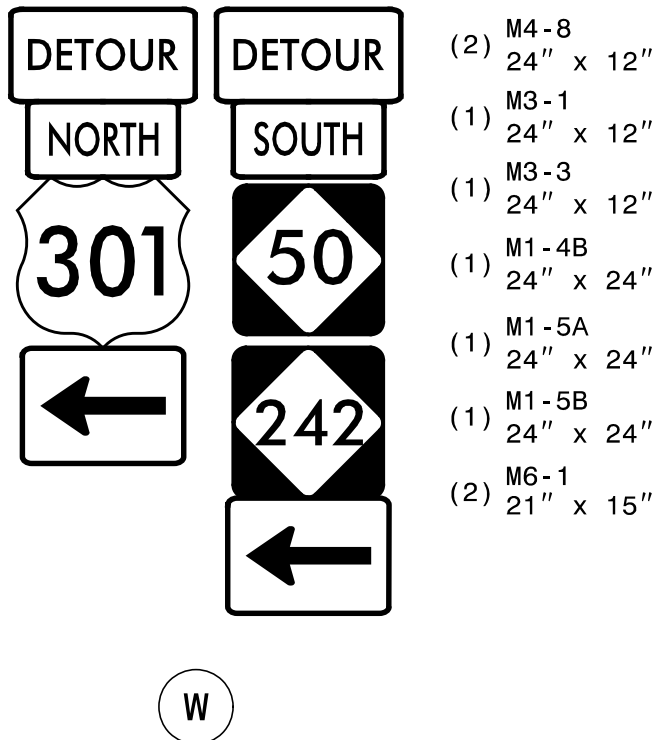
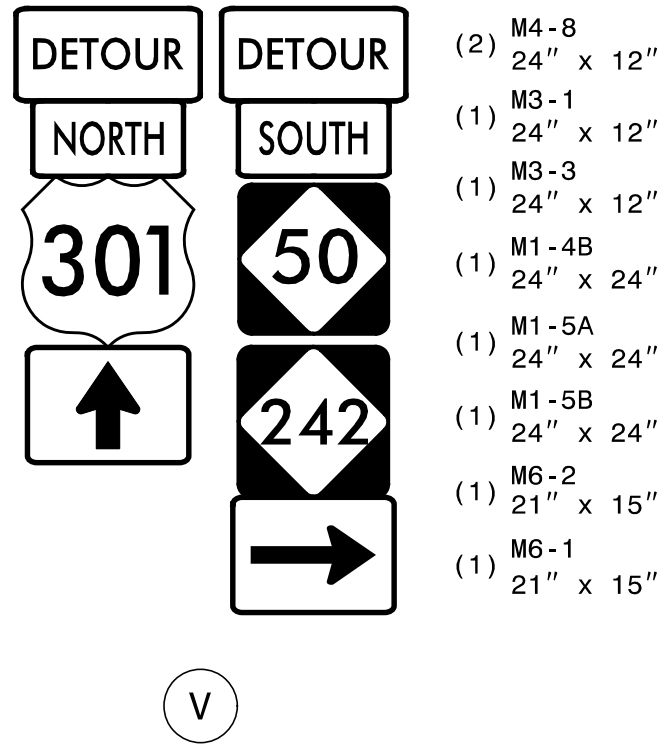
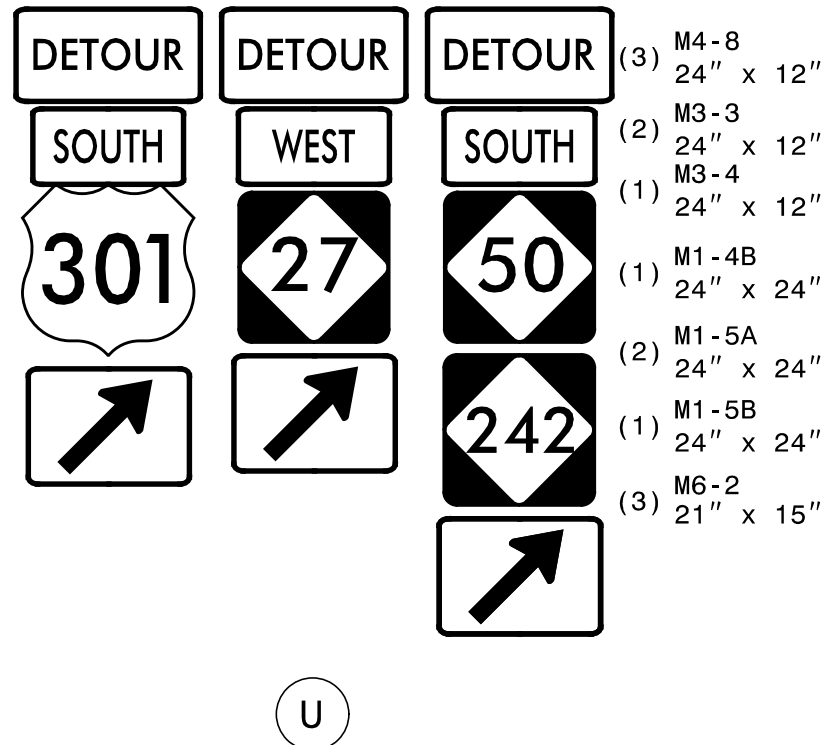
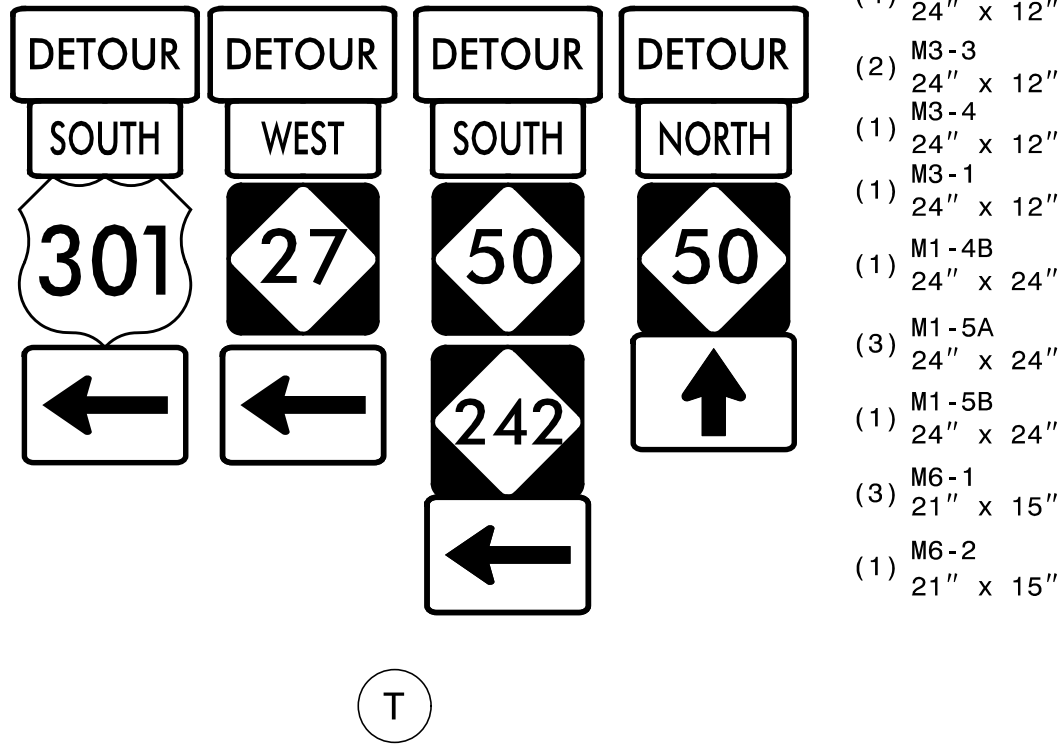
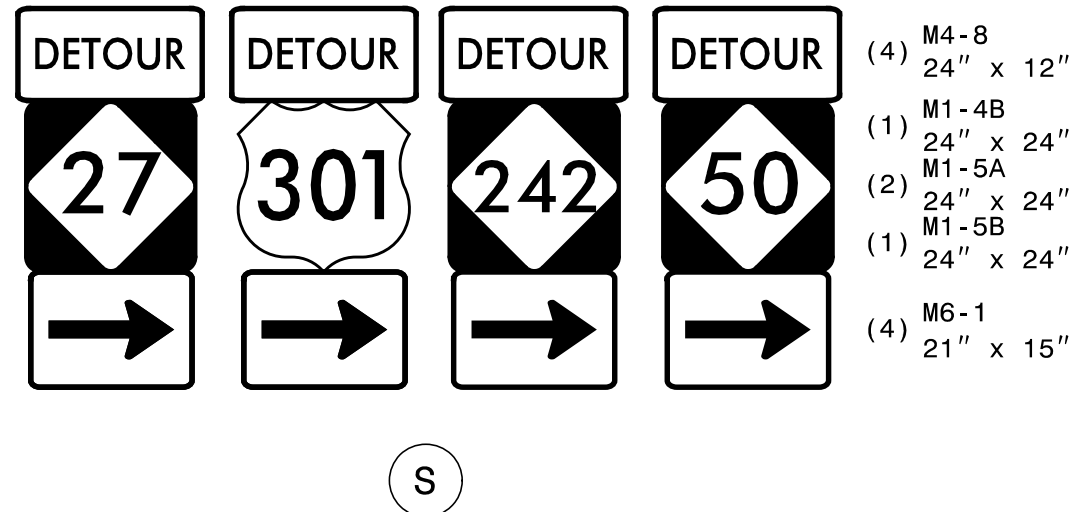
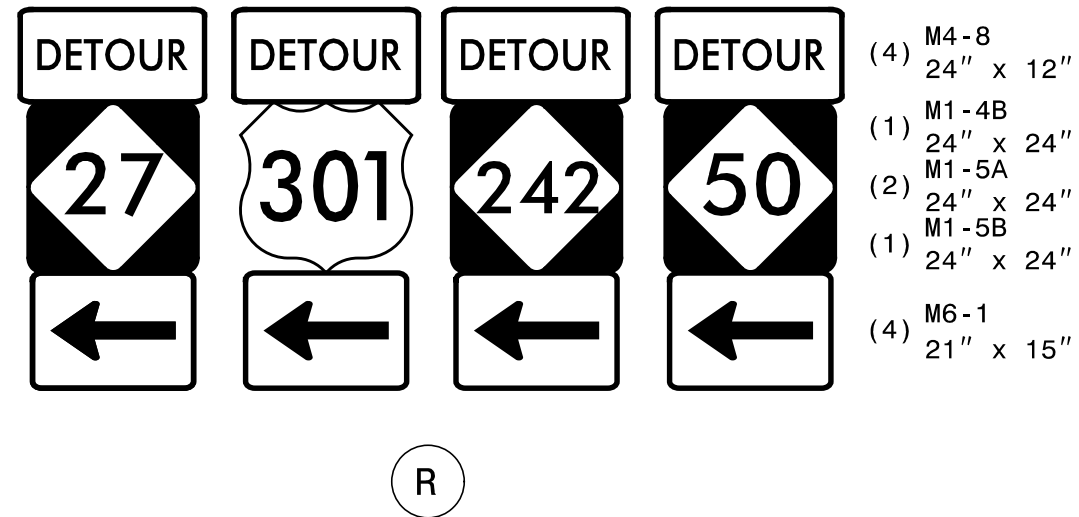
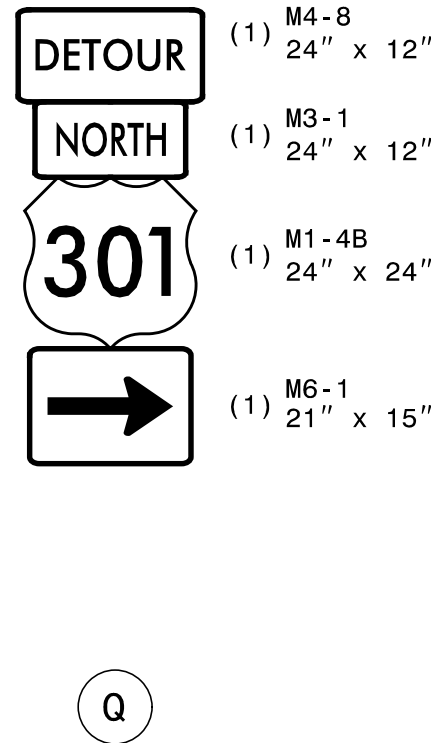
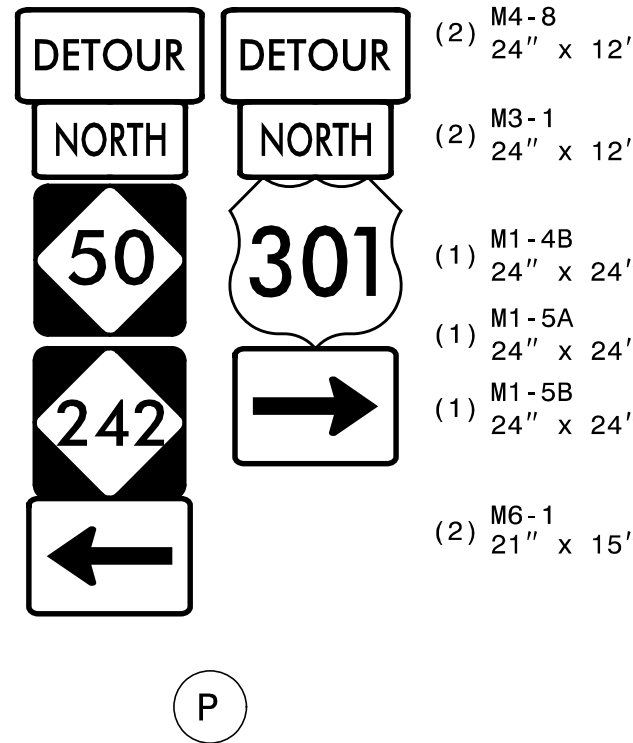
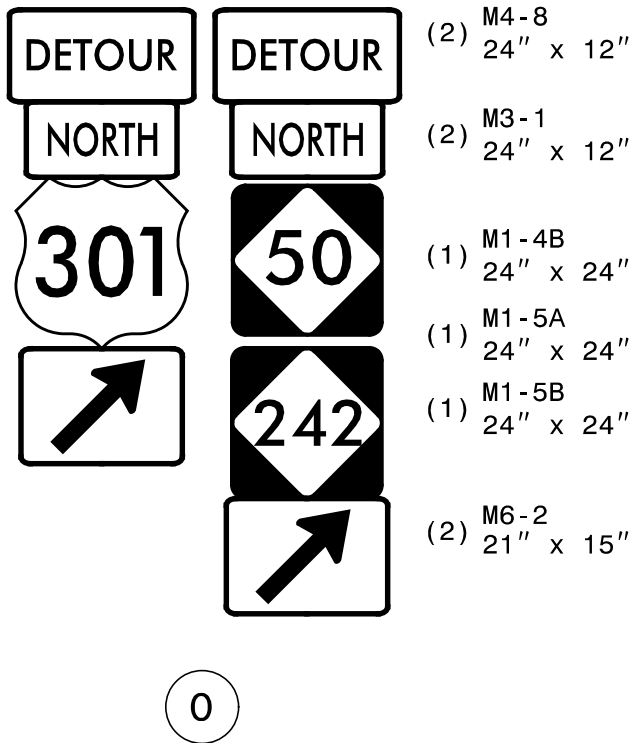
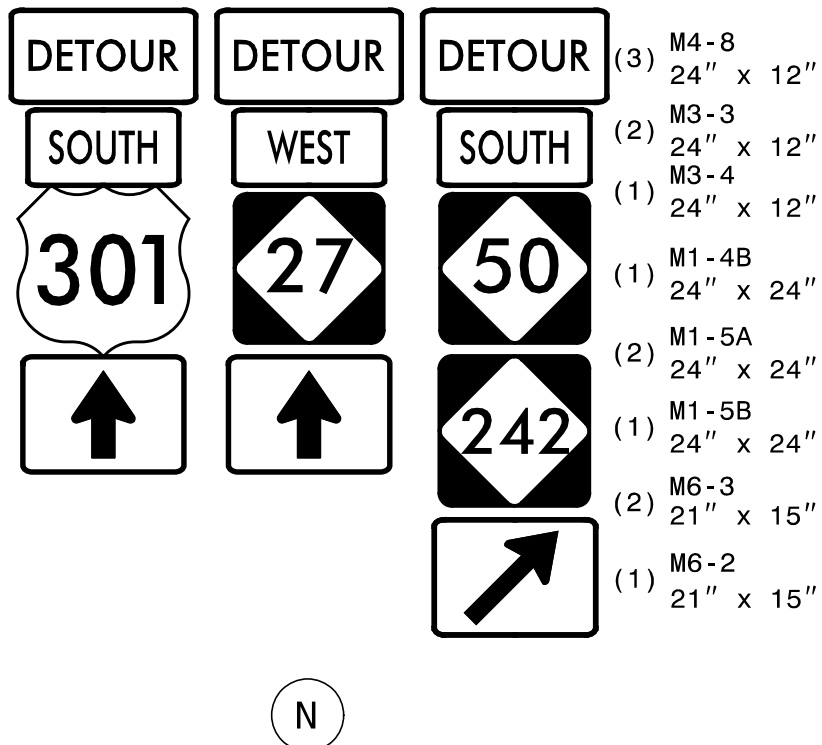
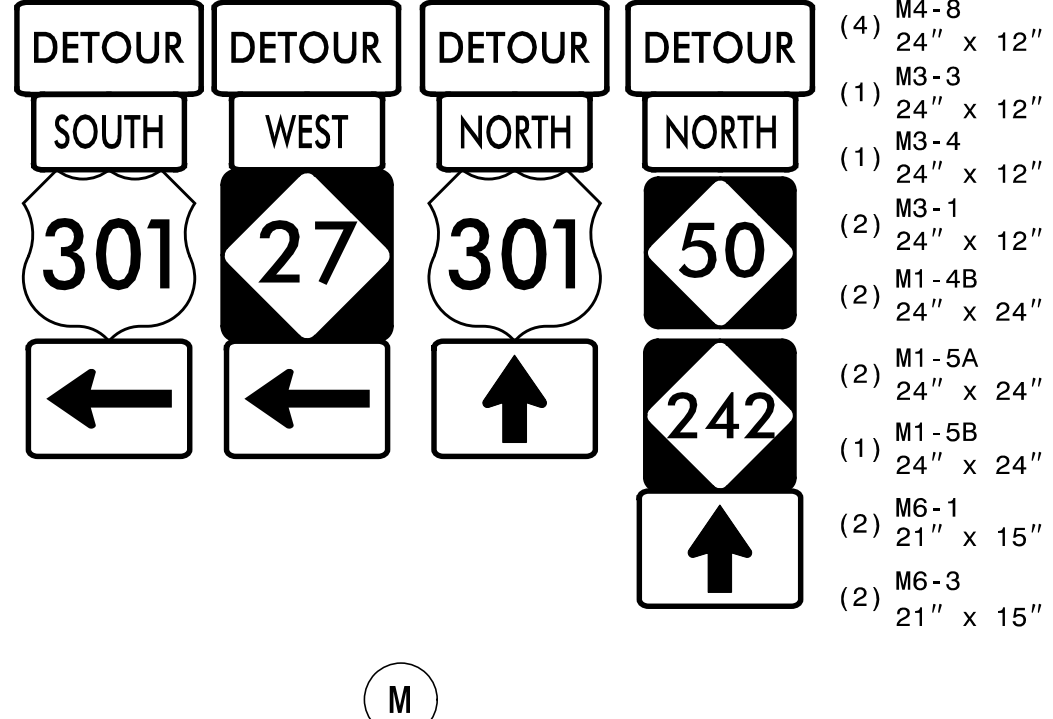
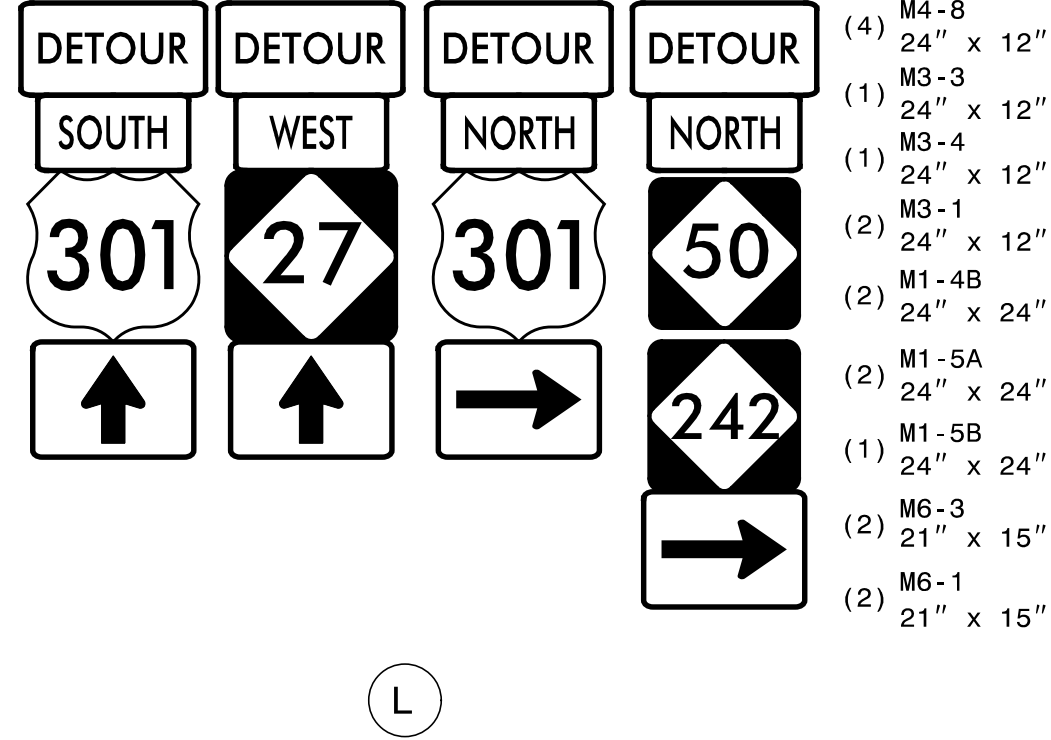
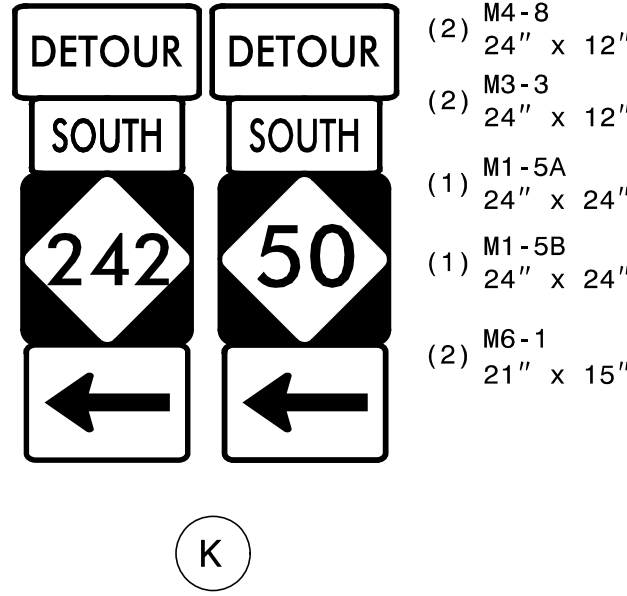
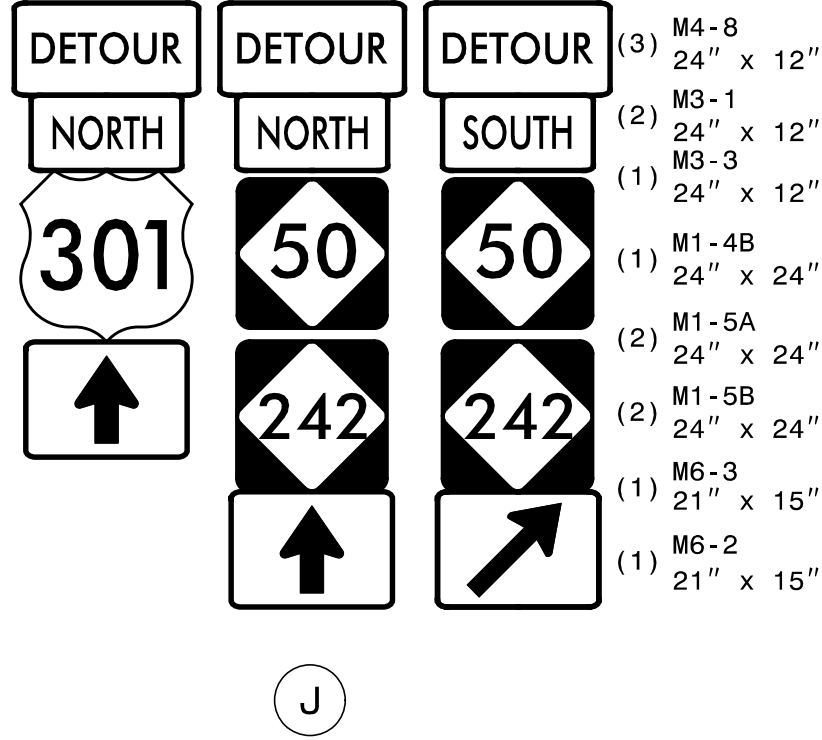
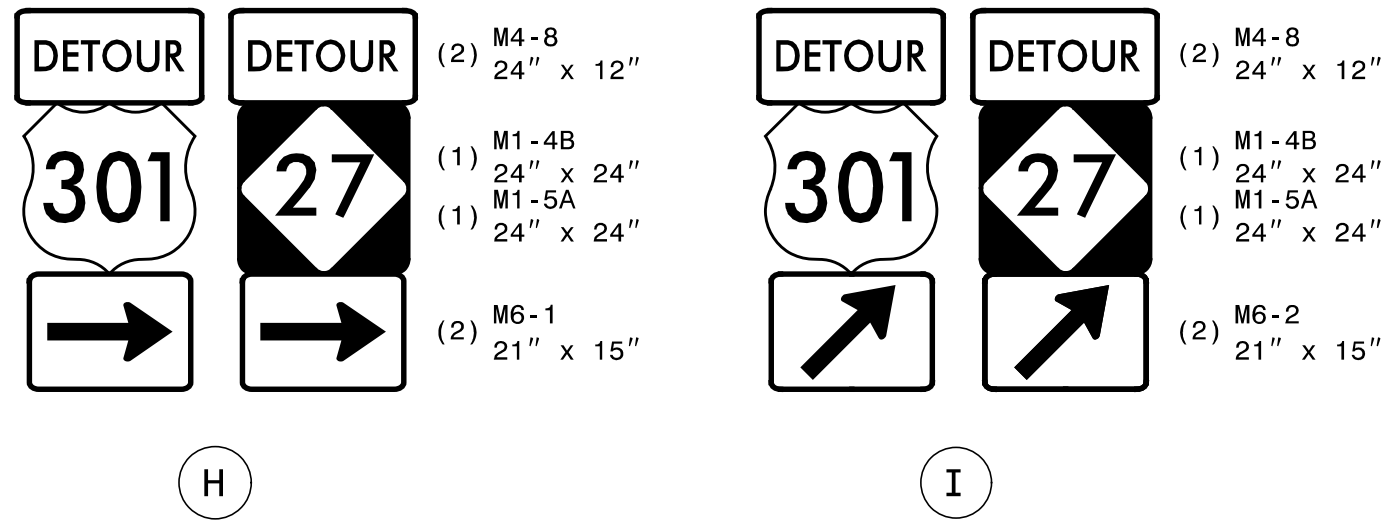


DETOUR SIGNING
-
TRUCKS

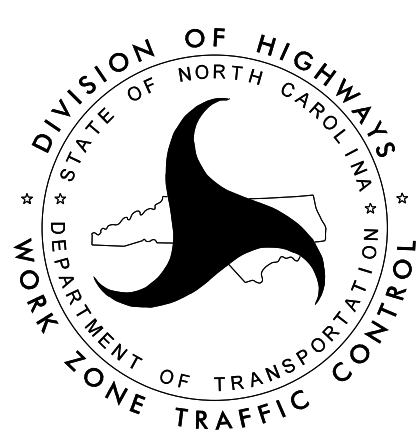
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User:htownsend



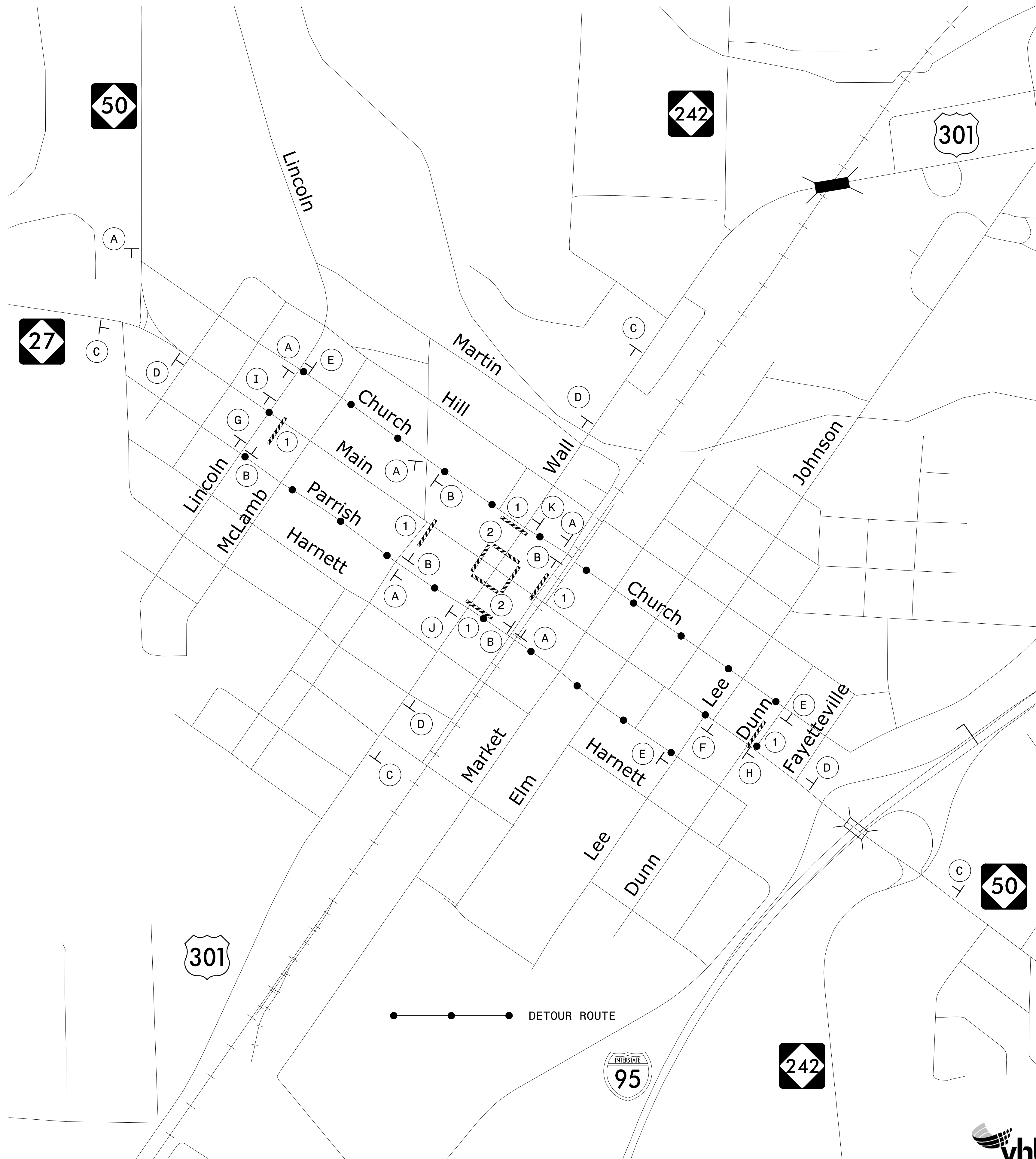
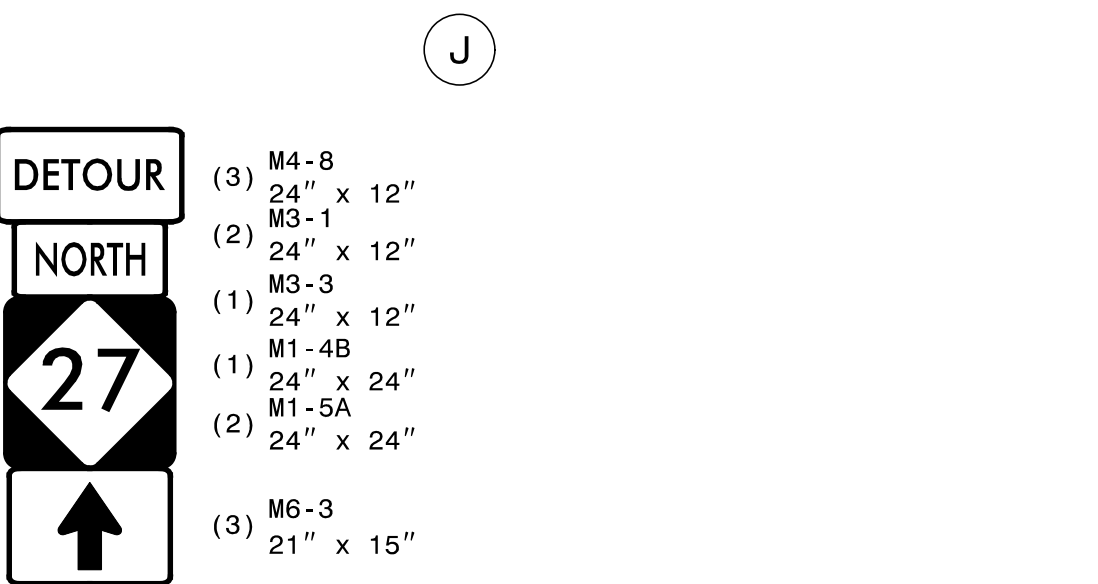
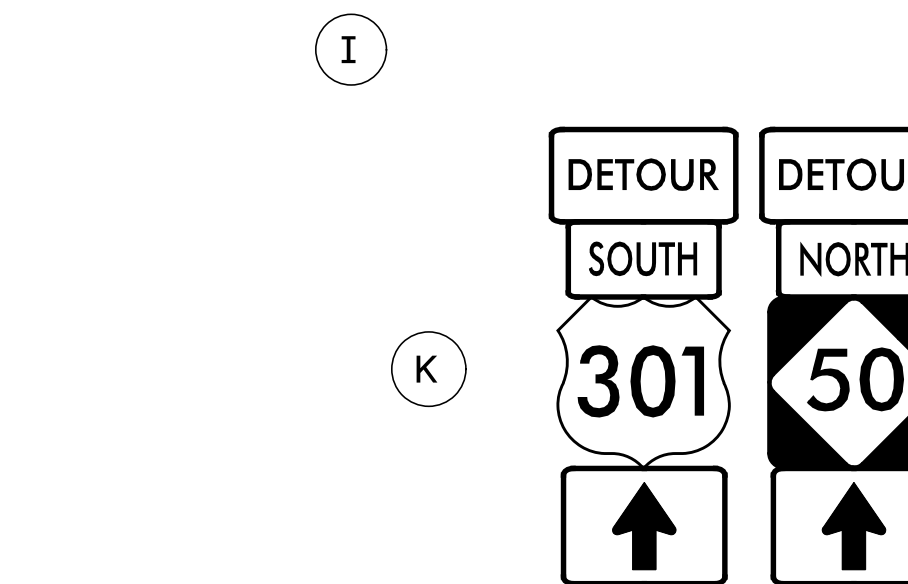
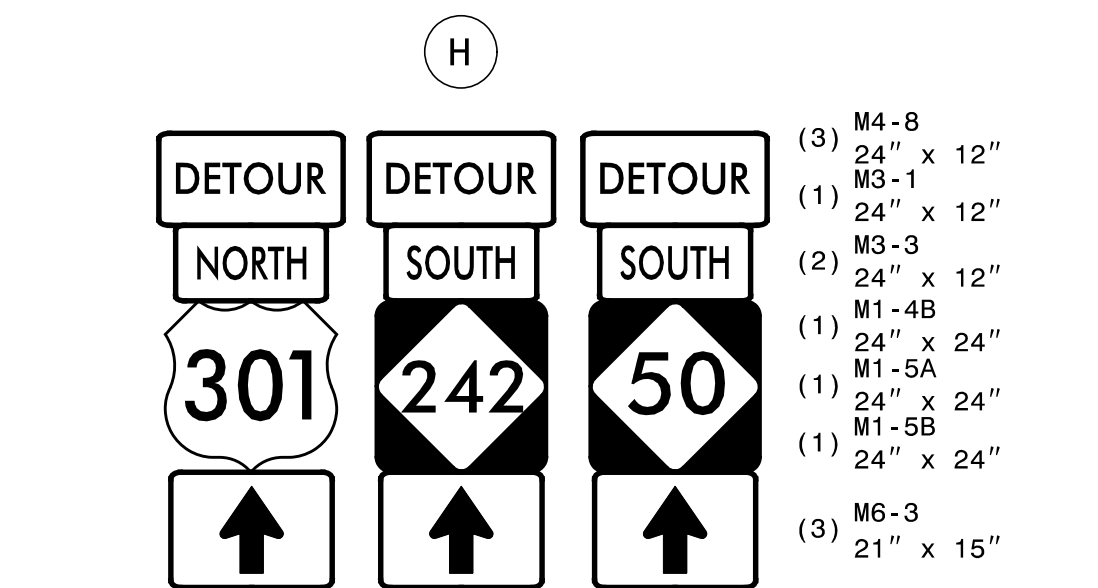
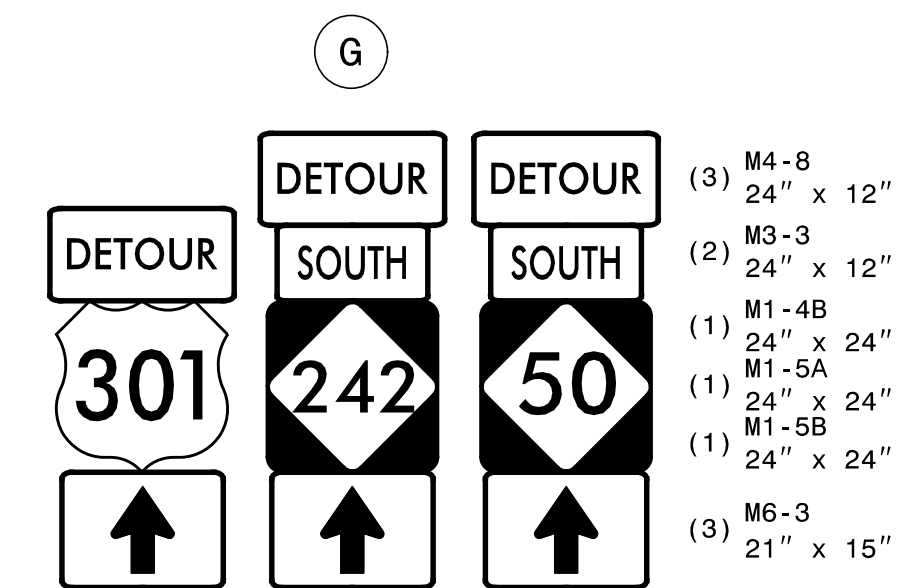
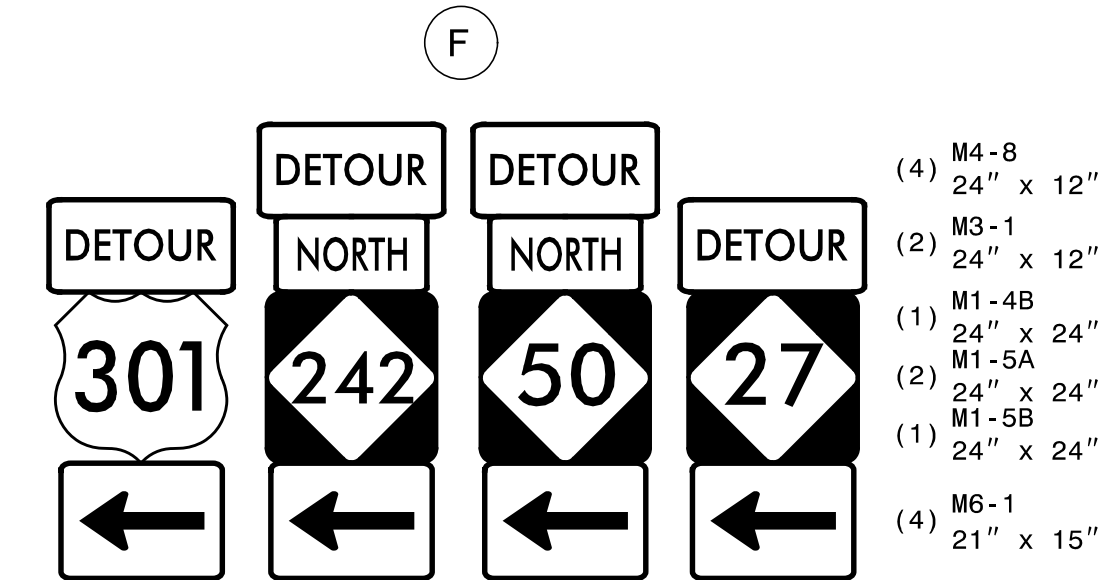
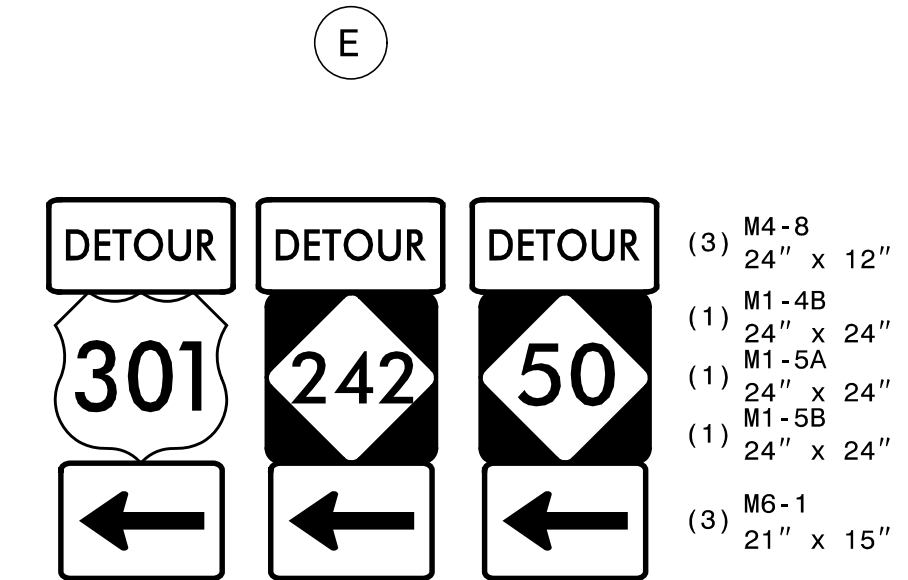
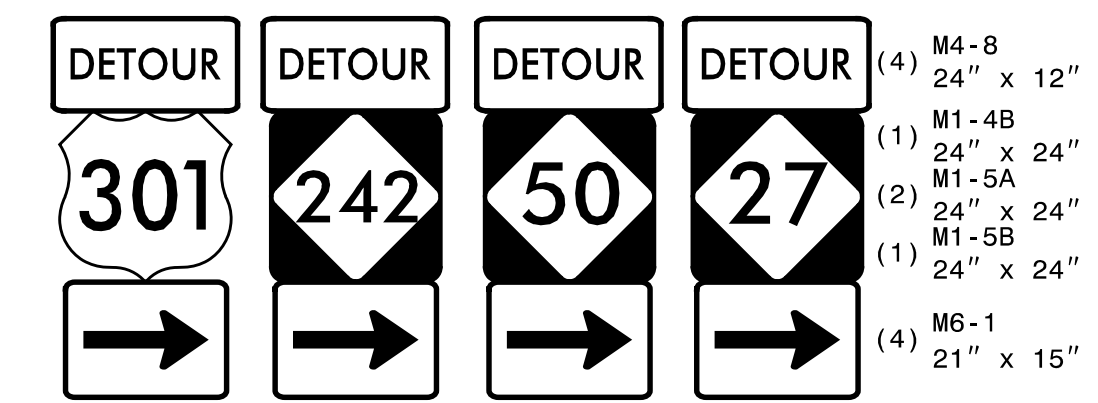
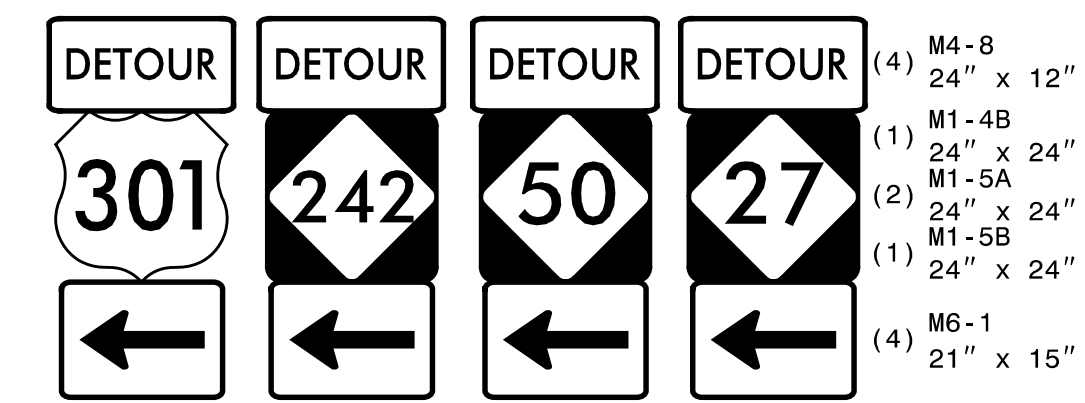
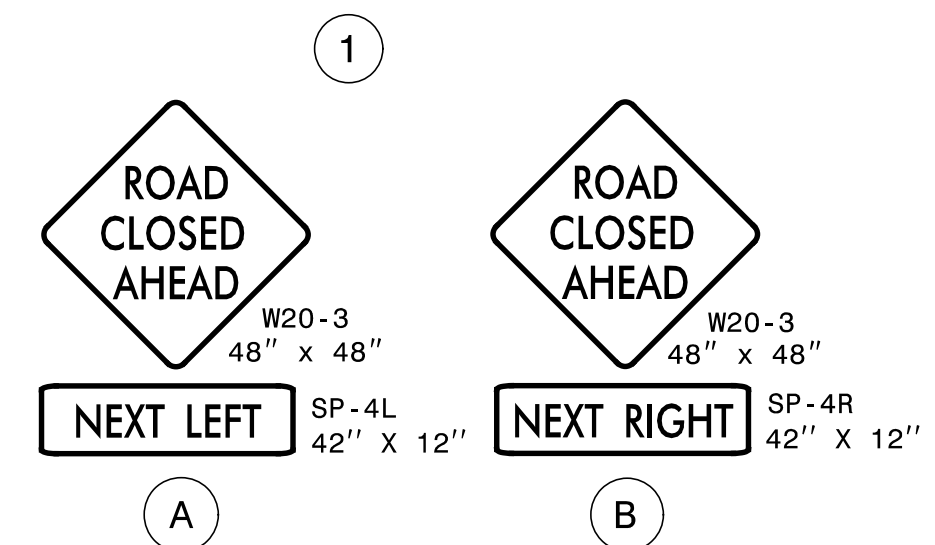
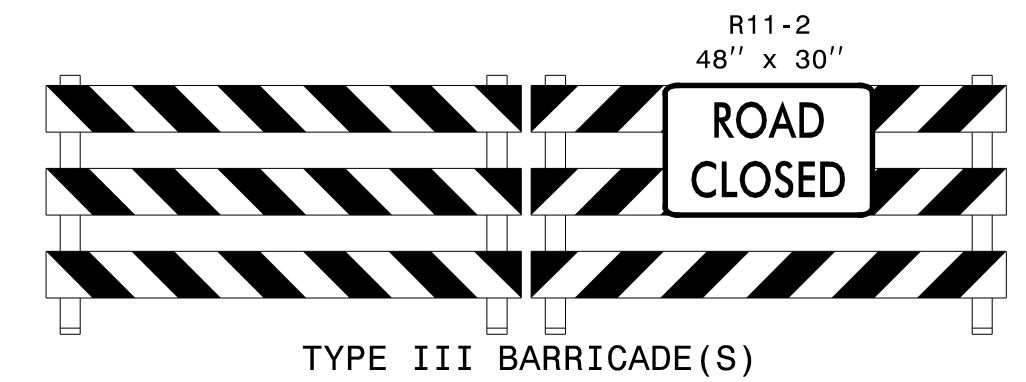
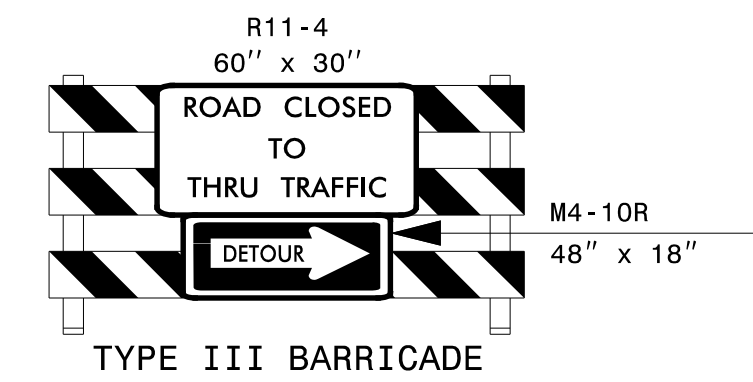
940 Main Campus Drive, Suite 500 Raleigh, NC 27606
NC License No. C-3705



APPROVED: _____
DATE: _____
John Townsend
SEAL
031533
ENGINEER
JOHN C. TOWNSEND
8/24/2021
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UNLESS ALL SIGNATURES COMPLETED



DETOUR SIGNING
-
TRUCKS



PHASING

PROJ. REFERENCE NO.	SHEET NO.
W-5704H	TMP-3

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS DURING CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS DIRECTED IN THE PHASING NOTES.

ERADICATE EXISTING MARKINGS WHICH CONFLICT WITH MARKINGS SHOWN IN THIS PLAN. REPLACE FADED OR WORN MARKINGS AS NEEDED DURING CONSTRUCTION TO MAINTAIN CLEAR DIRECTION TO THE TRAVELING PUBLIC OR AS DIRECTED BY THE ENGINEER.

PHASE I

STEP 1

INSTALL AND COVER DETOUR SIGNS AS SHOWN ON SHEETS TMP-2 THRU TMP-2B.

STEP 2

UNCOVER DETOUR SIGNING PLACED IN STEP 1 AND CLOSE THE INTERSECTION OF WALL STREET AT MAIN STREET.

INSTALL ADA COMPLIANT PEDSTRIAN BARRICADES AS SHOWN ON THE PLANS TO CLOSE AND DETOUR THE SIDEWALK AND PROVIDE PEDESTRIAN TRANSPORT SERVICE FOR PEDESTRIAN TRAFFIC TO/FROM THE WEST ON W MAIN STREET. ACCESS TO BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.

CONSTRUCT CURB AND GUTTER, DRAINAGE, ASPHALT PAVEMENT, SIDEWALK, CURB RAMPS, AND CONCRETE ISLANDS.

INSTALL FINAL PAVEMENT LAYER AND FINAL PAVEMENT MARKINGS AND MARKERS. SEE PAVEMENT MARKING PLANS FOR DETAIL.

OPEN THE INTERSECTION OF WALL STREET AT MAIN STREET AND REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

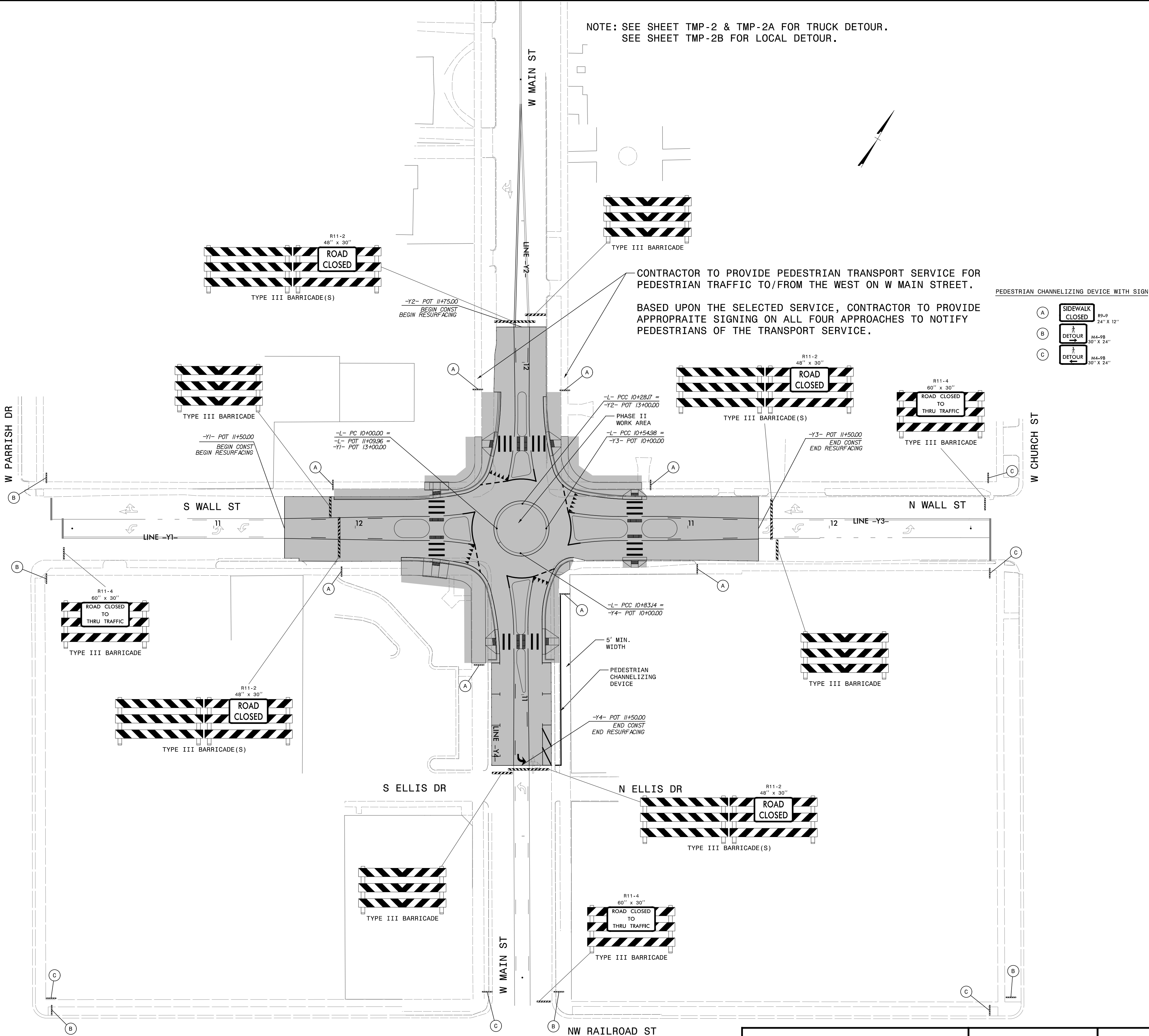
6/1/2022
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User:Jtownsend



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NC License No. C-3705

APPROVED: _____ DATE: _____ DocuSigned by John G. Townsend 8B2101C0-8F4A-46A8-BF4A-46A8B8F4A8B8 SEAL 031533 ENGINEER JOHN G. TOWNSEND 6/1/2022 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	PHASING
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NOTE: SEE SHEET TMP-2 & TMP-2A FOR TRUCK DETOUR.
SEE SHEET TMP-2B FOR LOCAL DETOUR.



3/30/2022
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User:htownsend



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NC License No. C-2705

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DATE: _____

Seal of John C. Townsend, Professional Engineer, State of North Carolina, License No. 031533, dated 3/30/2022.

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



PHASE I

8/25/2021
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User:jtownd

CONTRACT:

T.I.P.: W-5704H

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
JOHNSTON COUNTY

LOCATION: US-301 /NC-242 (WALL STREET) AND NC-50 /NC-242 (MAIN STREET) INTERSECTION IN BENSON

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-4	PAVEMENT MARKING DETAIL

PAVEMENT MARKING SCHEDULE

SYMBOL	ITEM DESCRIPTION	TOTAL QUANTITY	
T3	<u>THERMOPLASTIC (24", 90 MILS.)</u>		
	WHITE CROSSWALK LINE (HIGH VISIBILITY)	220	FT
	<u>THERMOPLASTIC (4", 90 MILS.)</u>		
TA TB	WHITE EDGE LINE	75	FT
	YELLOW EDGE LINE	496	FT
TF TH TI	<u>THERMOPLASTIC (4", 90 MILS.)</u>		
	10 FT. YELLOW SKIP	520	FT
	YELLOW SINGLE CENTER	520	FT
	YELLOW DOUBLE CENTER	158	FT
TN TO	<u>THERMOPLASTIC (8", 90 MILS.)</u>		
	WHITE GORE LINE	138	FT
	WHITE DIAGONAL	28	FT
T10	<u>THERMOPLASTIC (8", 90 MILS.)</u>		
	3 FT.-3FT./SP WHITE MINISKIP	74	FT
UA UN	<u>THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS.)</u>		
	LEFT TURN ARROW 24" YIELD LINE TRIANGLE	1 19	EA EA

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 |
| -L-
-Y- LINES | THERMOPLASTIC
THERMOPLASTIC | SNOWPLOWABLE
SNOWPLOWABLE |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) 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.

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
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

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

John G. Townsend, PE PROJECT ENGINEER



Venture I
940 Main Campus Drive, Suite 500
Raleigh, NC 27606
NC License No. C-3705
919.829.0328

TIP NO.

W-5704H

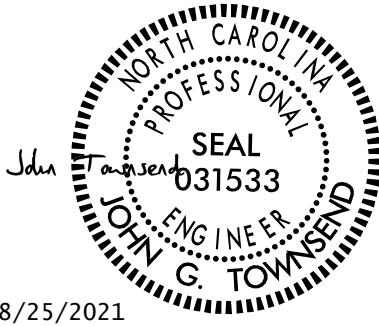
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PMP - 1

APPROVED: _____

DATE: _____

SEAL



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TIP NO.
W-5704H

SHEET NO.
PMP-4

APPROVED: _____

DATE: _____

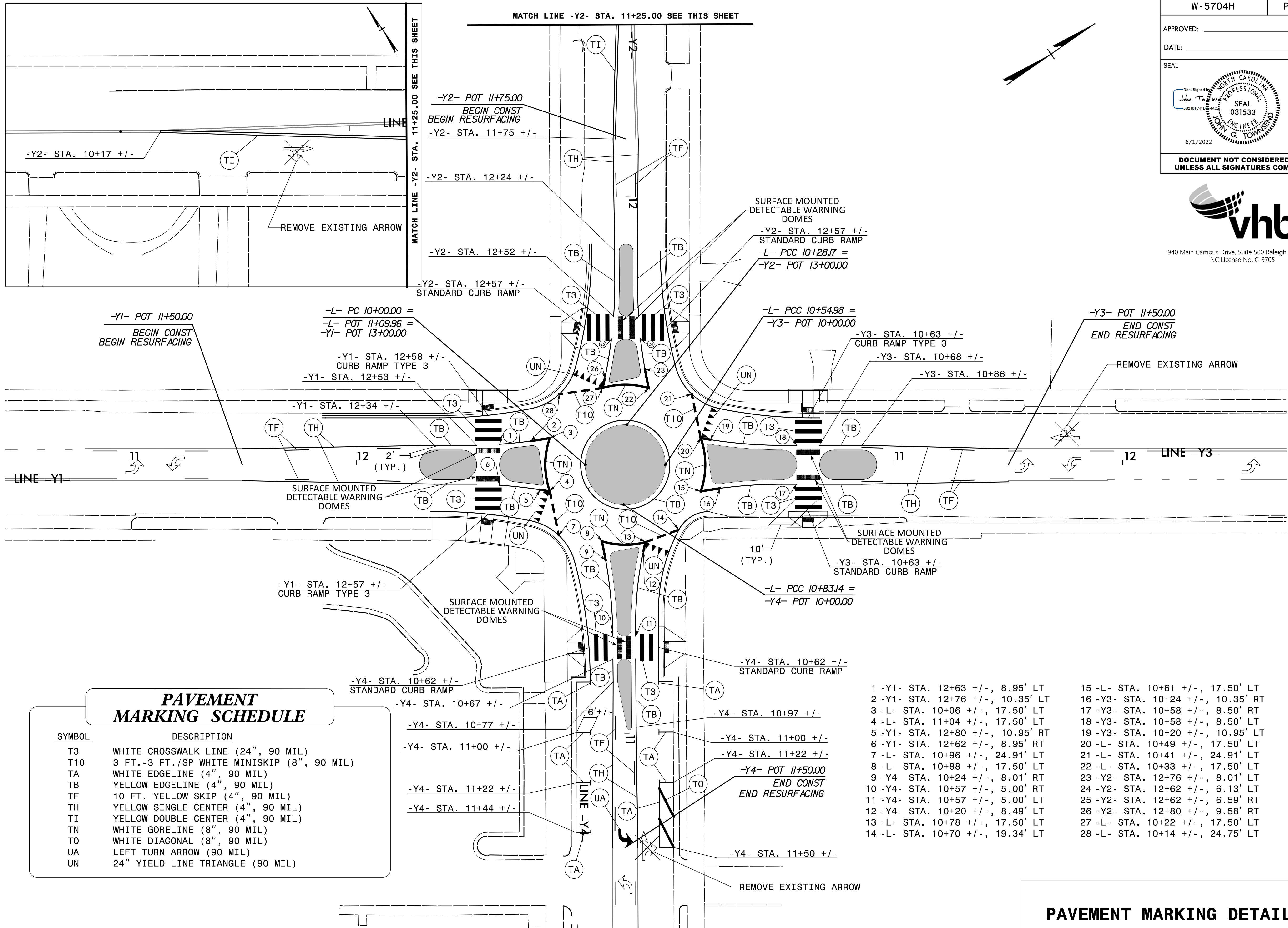
SEAL

DocuSigned by
John G. Townsend
682101C410EAC
SEAL
031533
ENGINEER
JOHN G. TOWNSEND
6/1/2022

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T.I.P.: W-5704H

CONTRACT:

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
JOHNSTON COUNTY

LOCATION: US-301 /NC-242 (WALL STREET) AND NC-50 /NC-242 (MAIN STREET) INTERSECTION IN BENSON

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
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

- . SIGNS FURNISHED BY CONTRACTOR
- . 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.			
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	101	S.F.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	240	L.F.
4102000000	904	SIGN ERECTION, TYPE E	12	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E	3	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE F	3	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	6	EA.

PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 DISPOSAL OF SUPPORT, U-CHANNEL
- 3 SIGN ERECTION, RELOCATE SIGN TYPE D, E, AND F
- 4 SIGN ERECTION, TYPE D, E, AND F

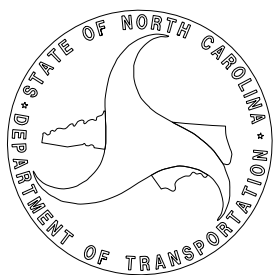
INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-3	F SHEET
SIGN-4-5	SIGNING PLAN SHEETS

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

SIGNING & DELINEATION REGIONAL ENGINEER

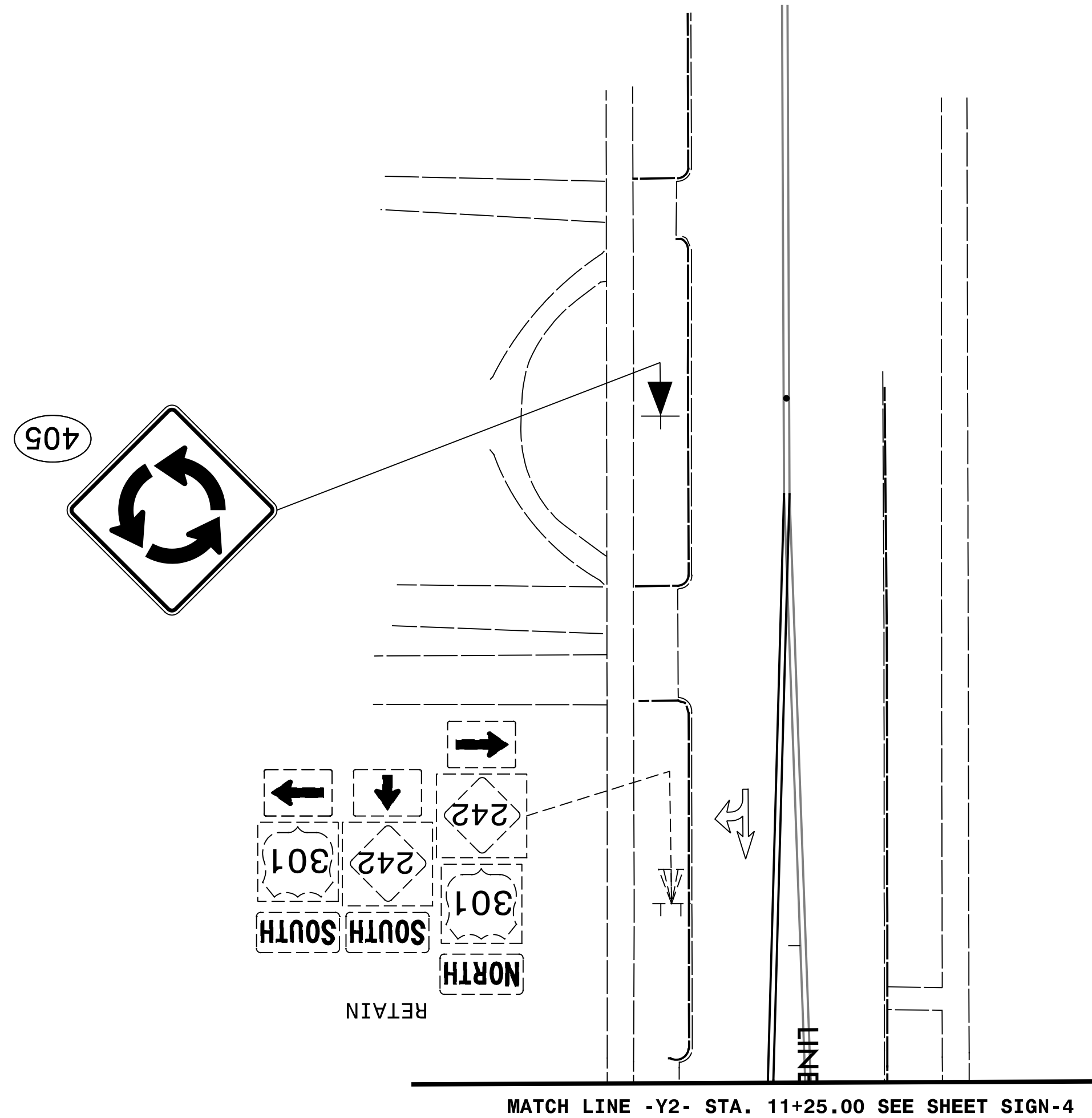
SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PROJECT REFERENCE NO.	SHEET NO.
W-5704H	SIGN-1
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DATE: _____	
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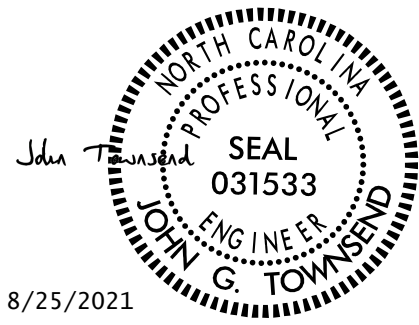
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User:jtownsend



PROJECT NOTES

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 DISPOSAL OF SUPPORT, U-CHANNEL
- 3 RELOCATE SIGN, TYPE D, E, AND F
- 4 SIGN ERECTION, TYPE D, E, AND F

EXISTING AND PROPOSED
SIGNS

TIP NO.	SHEET NO.
W-5704H	SIGN-5
APPROVED: _____	
DATE: _____	
SEAL	
	
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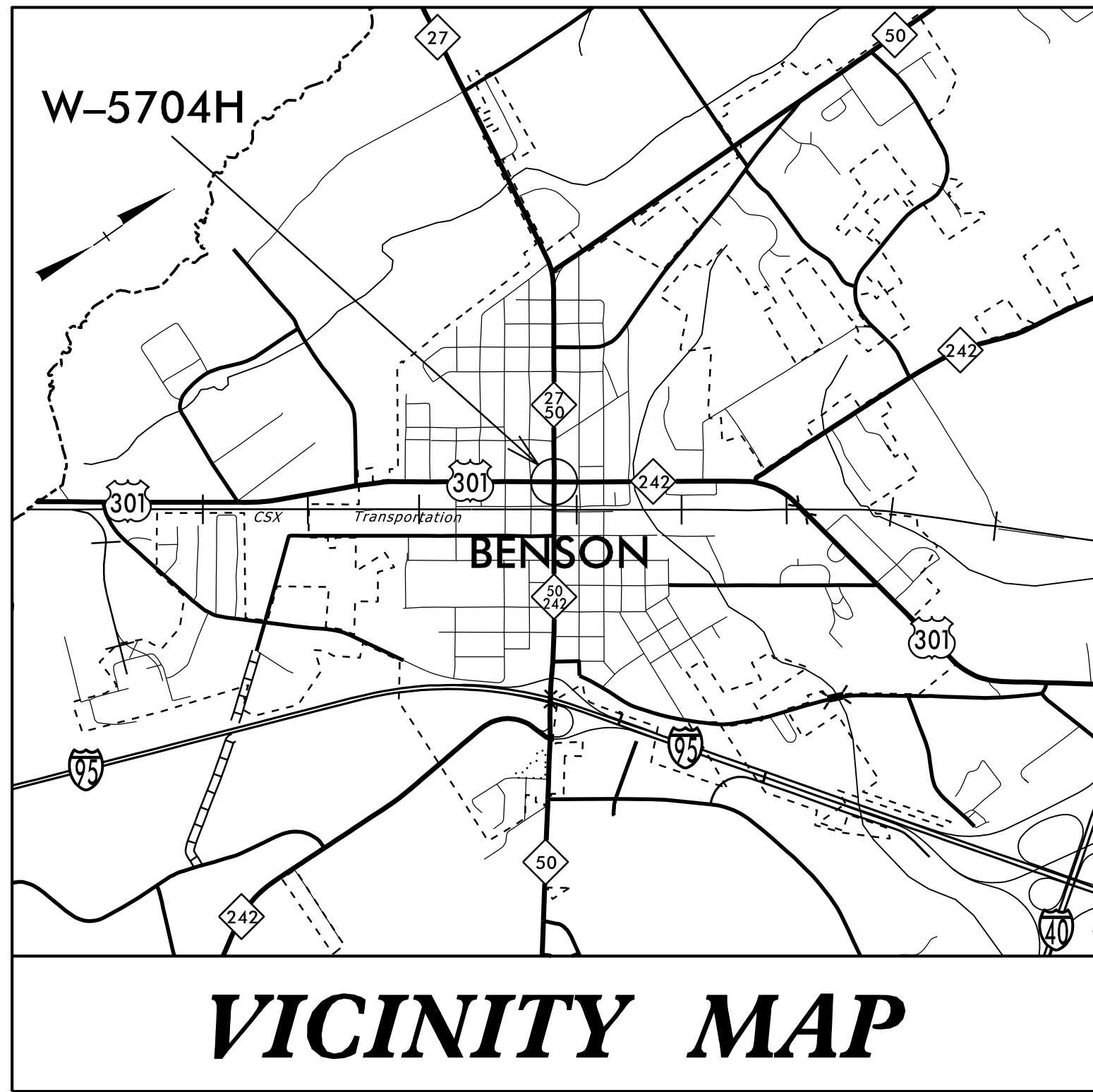
940 Main Campus Drive, Suite 500 Raleigh, NC 27606
NC License No. C-3705

29 JUN 2022 14:45
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CONTRACT:

TIP PROJECT: W-5704H

See Sheet 1-A For Index of Sheets



VICINITY MAP

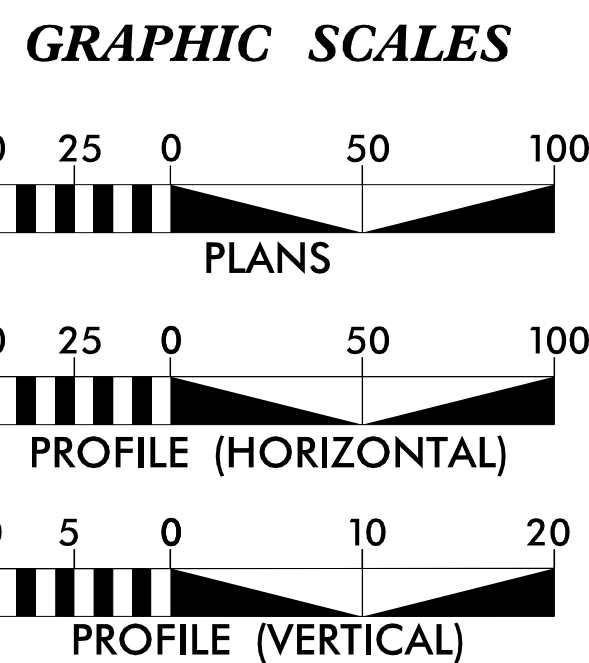
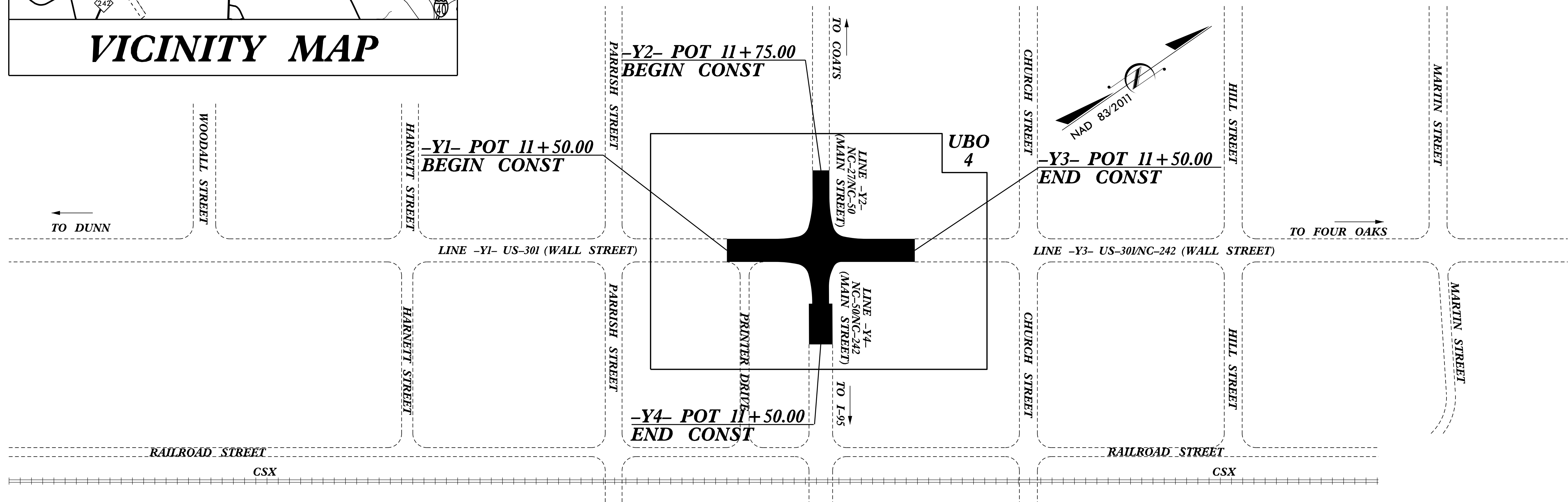
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
JOHNSTON COUNTY

LOCATION: US-301/NC-242 (WALL STREET) AND NC-50/NC-242
(MAIN STREET) INTERSECTION.

TYPE OF WORK: UTILITY BY OTHERS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5704H	1	



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
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UBO-04	UBO PLAN SHEET

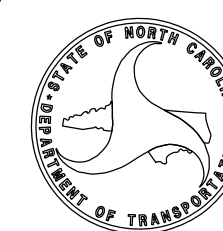
UTILITY OWNERS WITH CONFLICTS

- A. GAS – PEIDMONT NATURAL GAS
- B. ELECTRIC – TOWN OF BENSON
- C. TELECOMMUNICATION – CENTURYLINK
- D. TELECOMMUNICATION – SPECTRUM

Prepared In the Office of
DIVISION OF HIGHWAYS
Division 4
509 Ward Blvd.
Wilson NC, 27895

KYLE PLEASANT PROJECT UTILITIES ENGINEER

FRANK ZDELAR PROJECT UTILITIES COORDINATOR



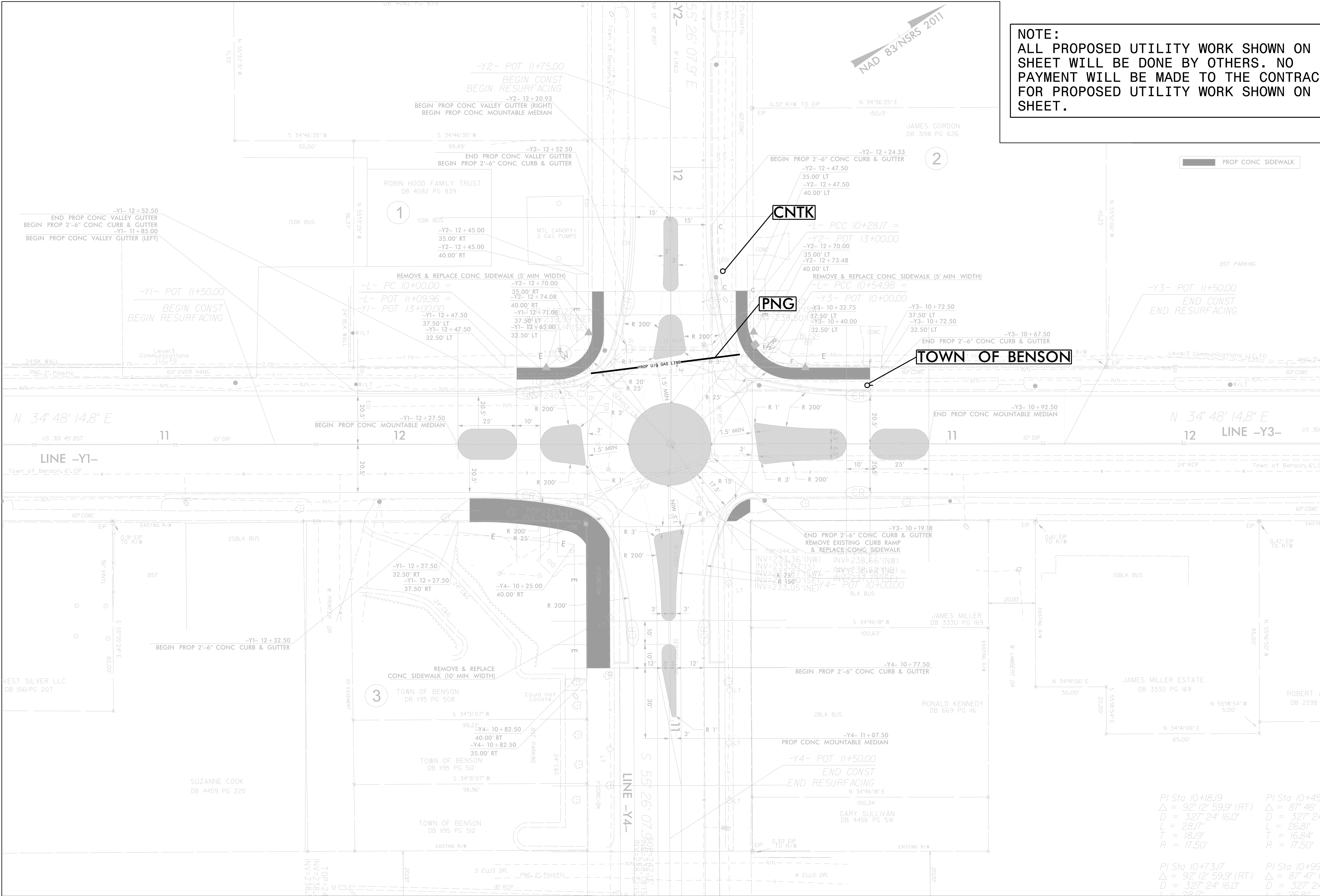
DIVISION OF HIGHWAYS
DIVISION 4

509 Ward Blvd. Wilson NC, 27895

ADDISON GAINEX, PE DIVISION CONTACT #1

UTILITIES BY OTHERS

NOTE:
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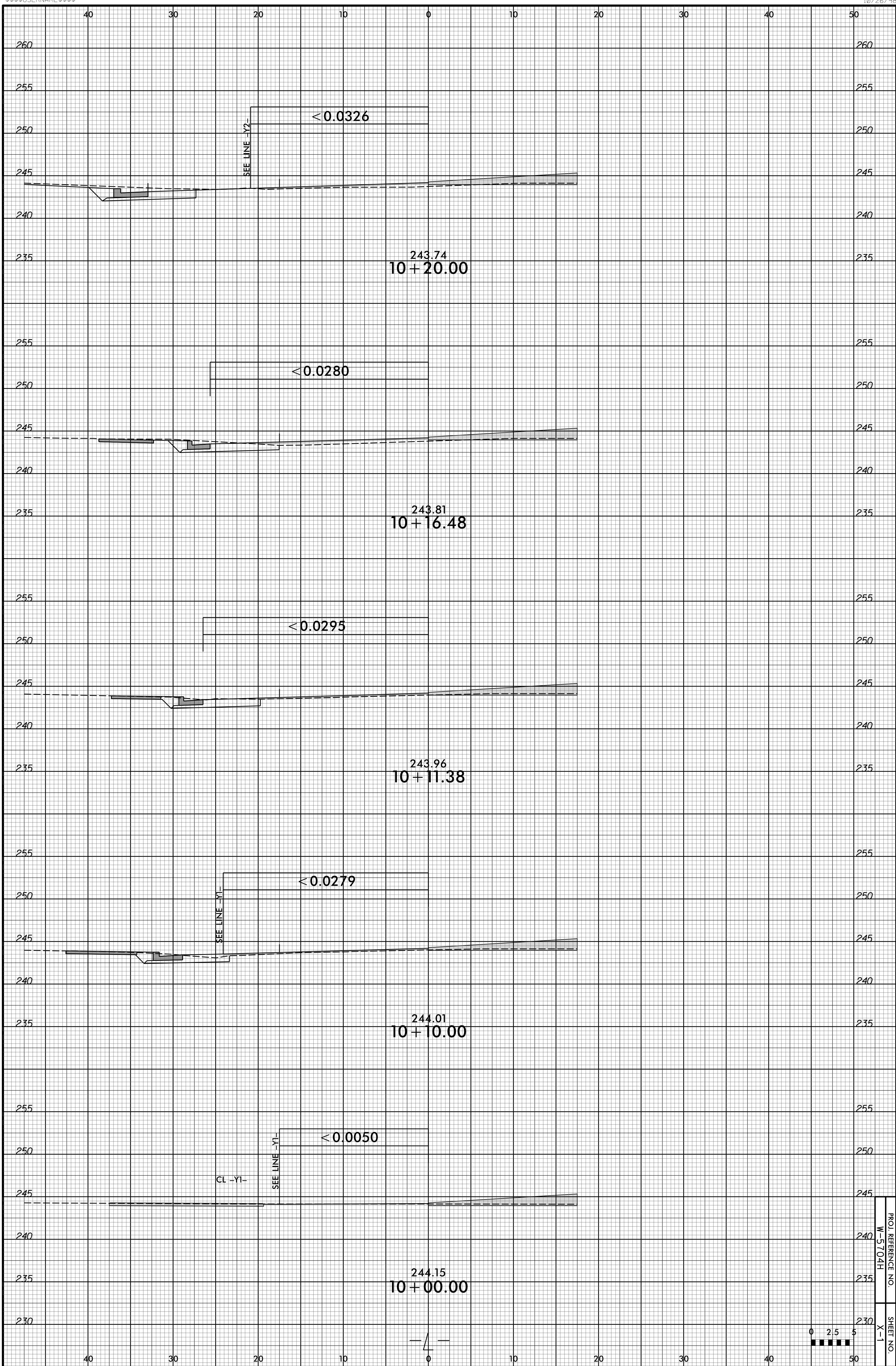
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PI Sta 10+73.17 Δ = 92° 12' 59.9" (RT) D = 327' 24" 16.0" L = 28.17' T = 18.19' R = 17.50'	PI Sta 10+99.50 Δ = 87° 47' D = 327' 24" L = 26.81' T = 16.84' R = 17.50'

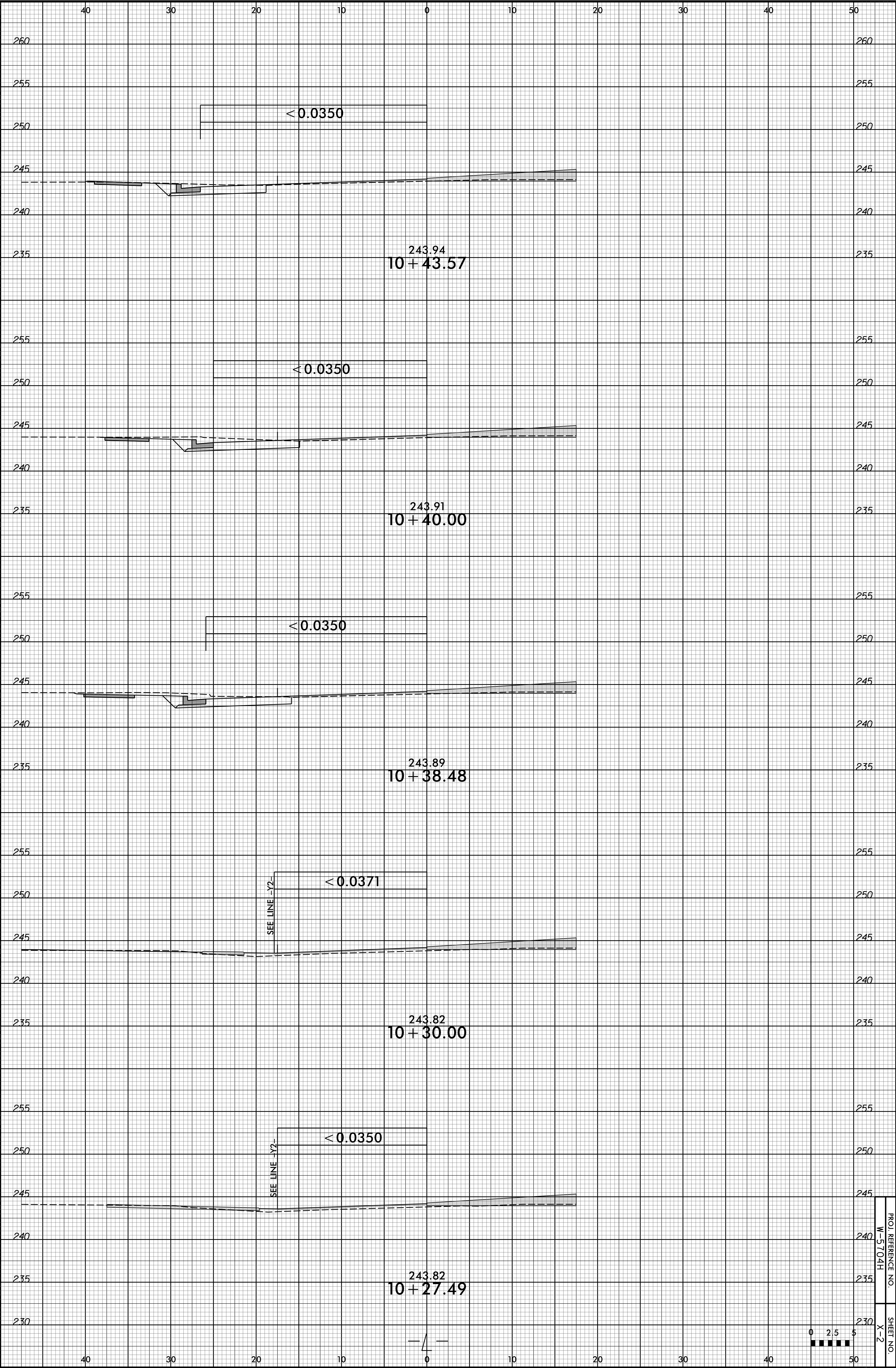
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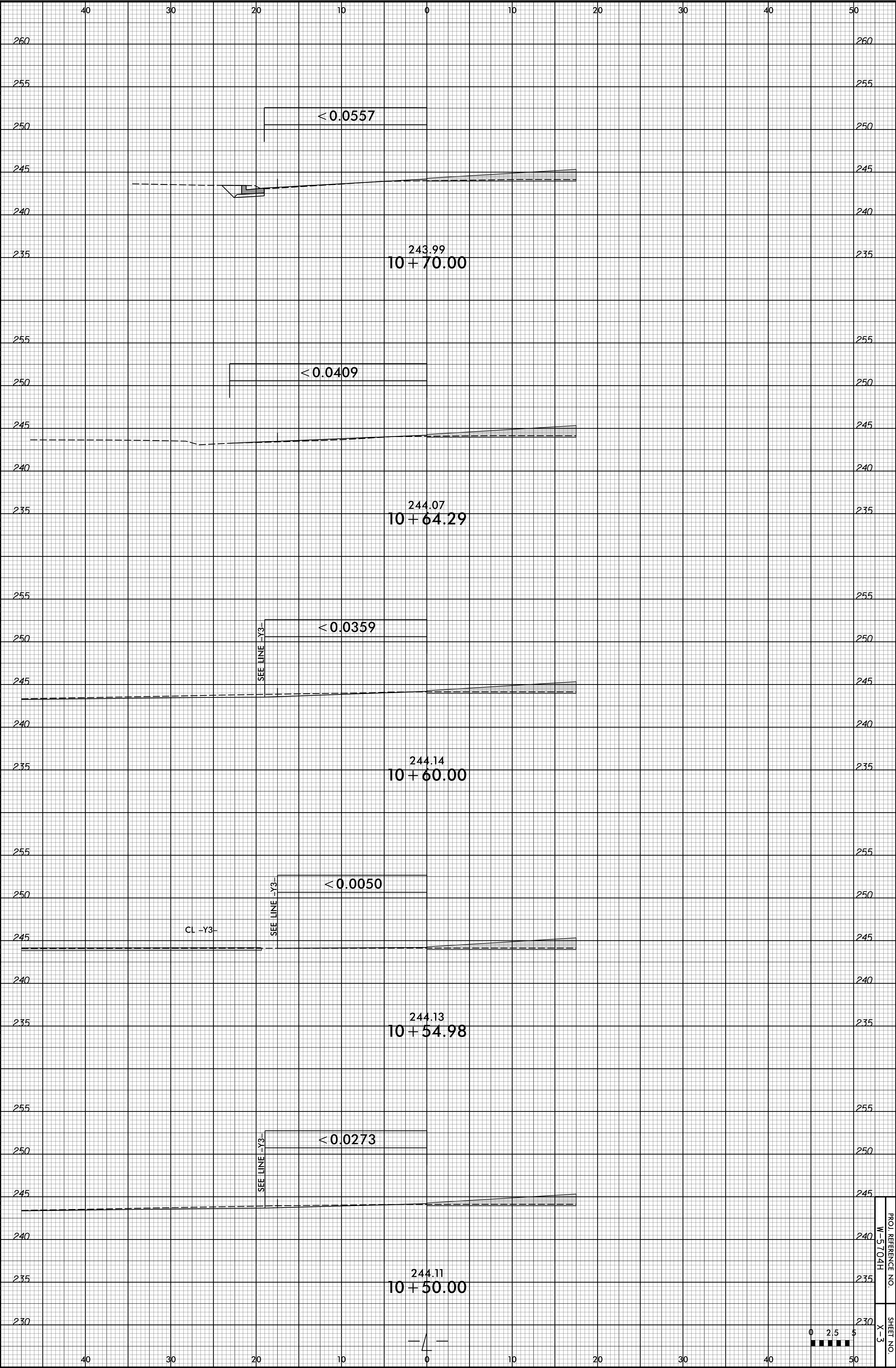
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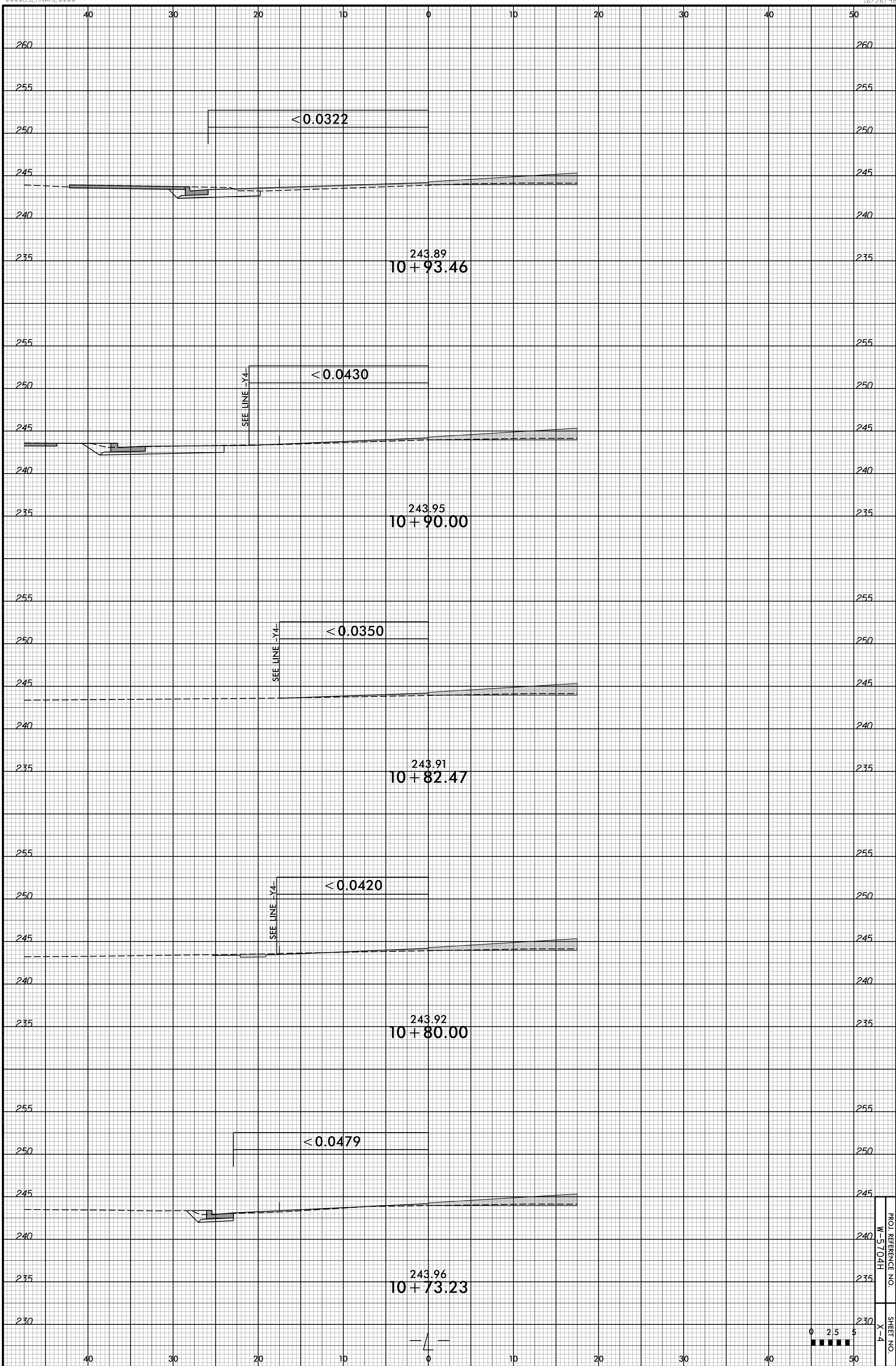
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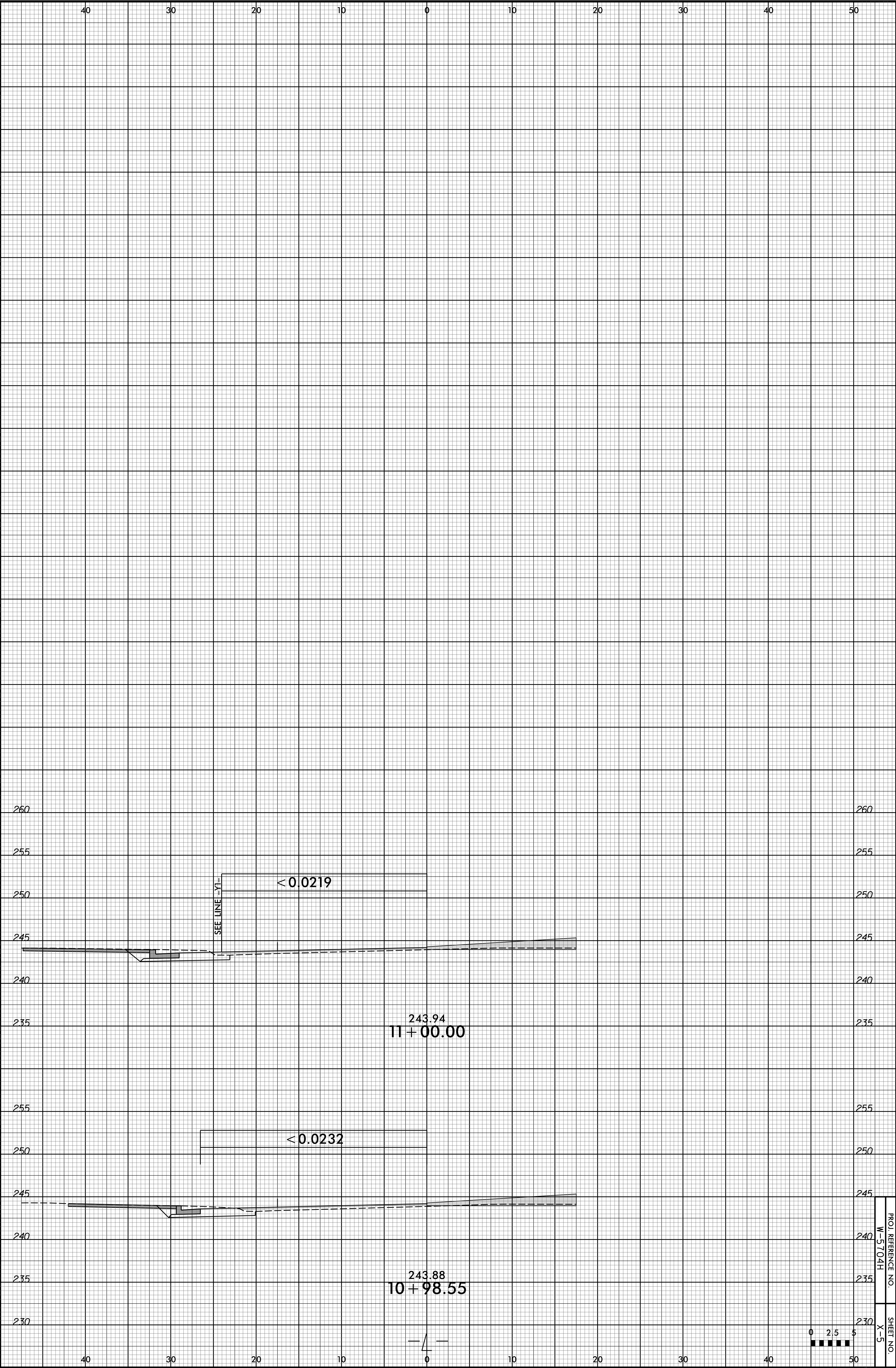
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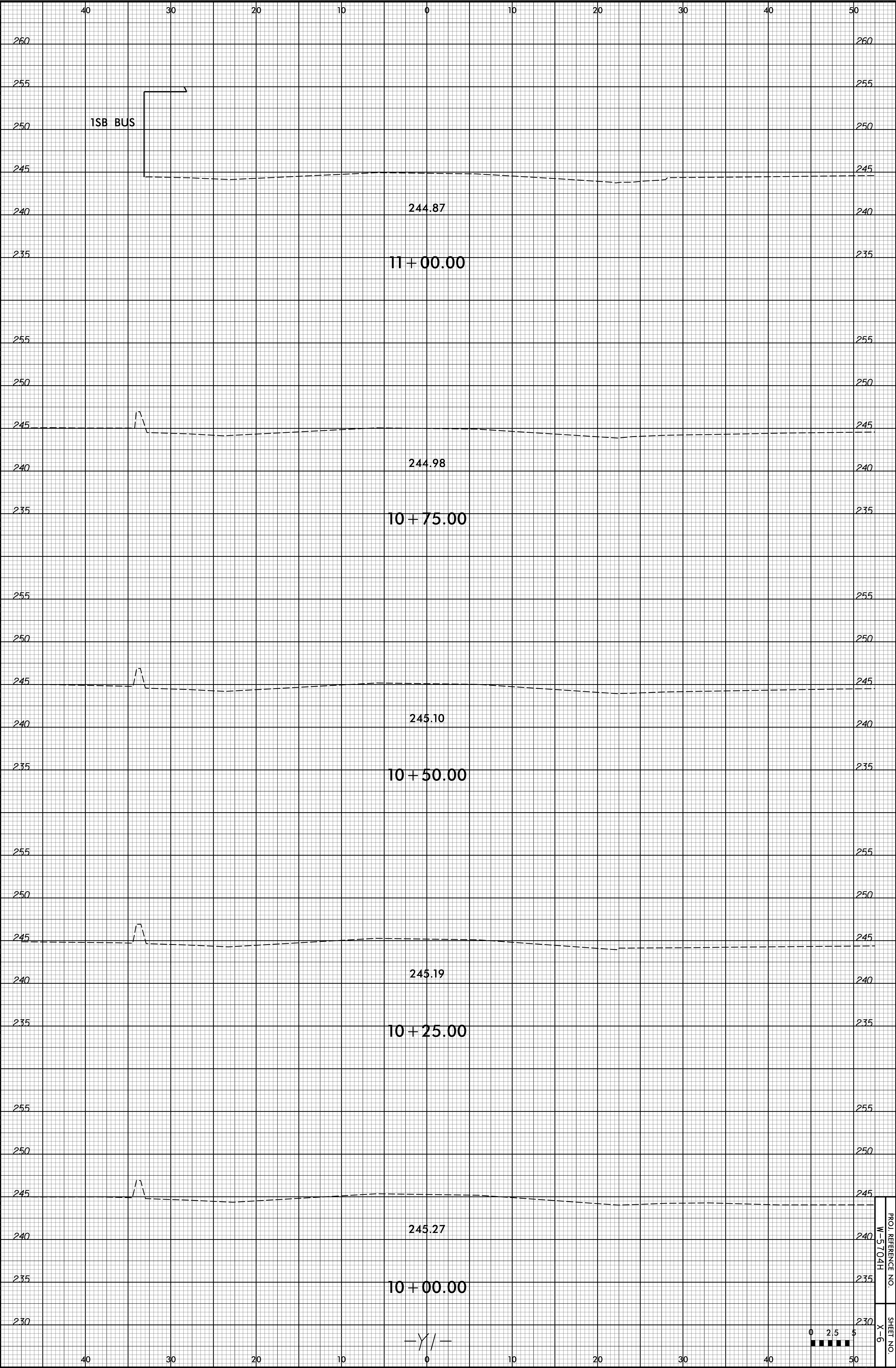


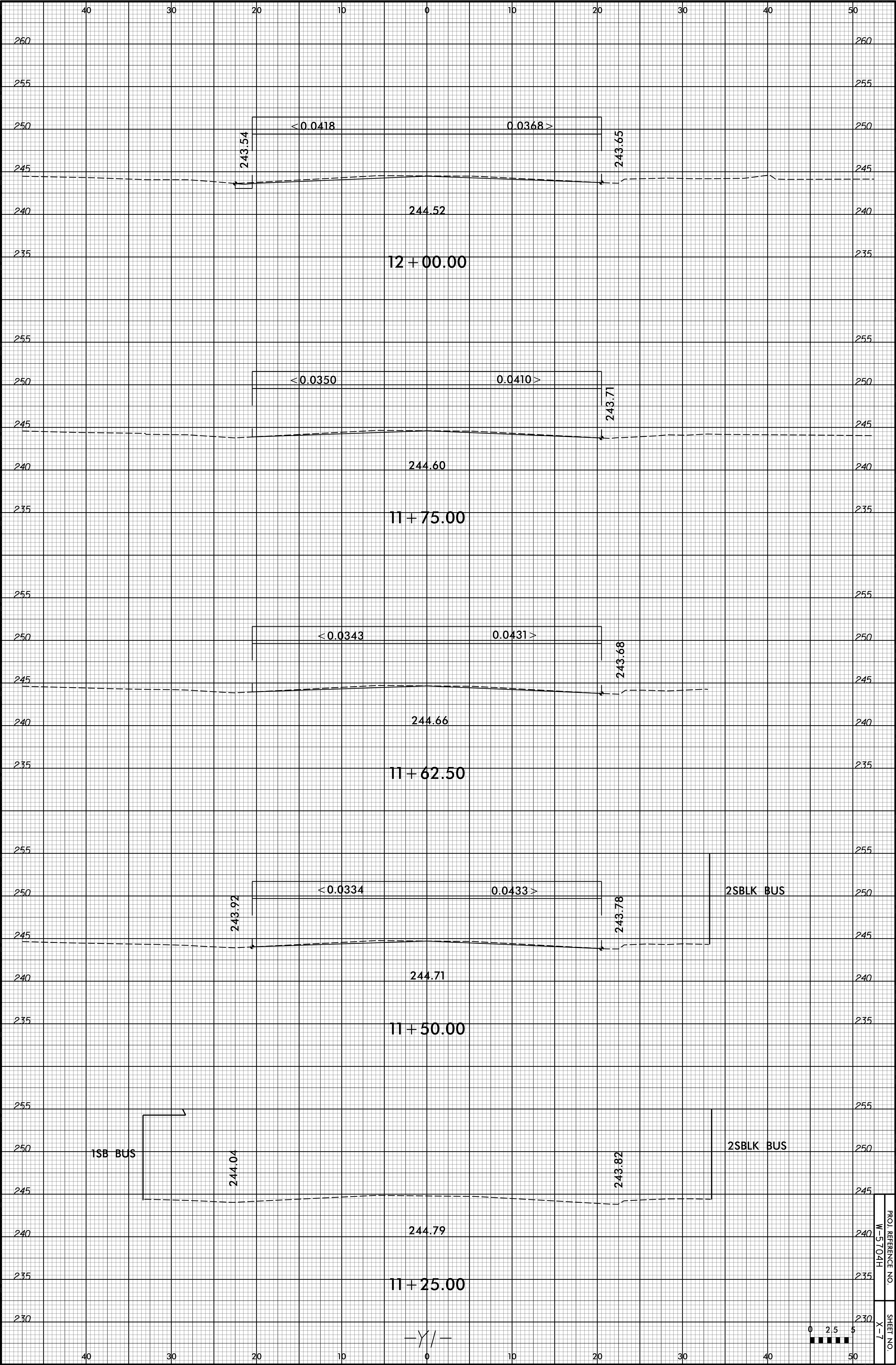


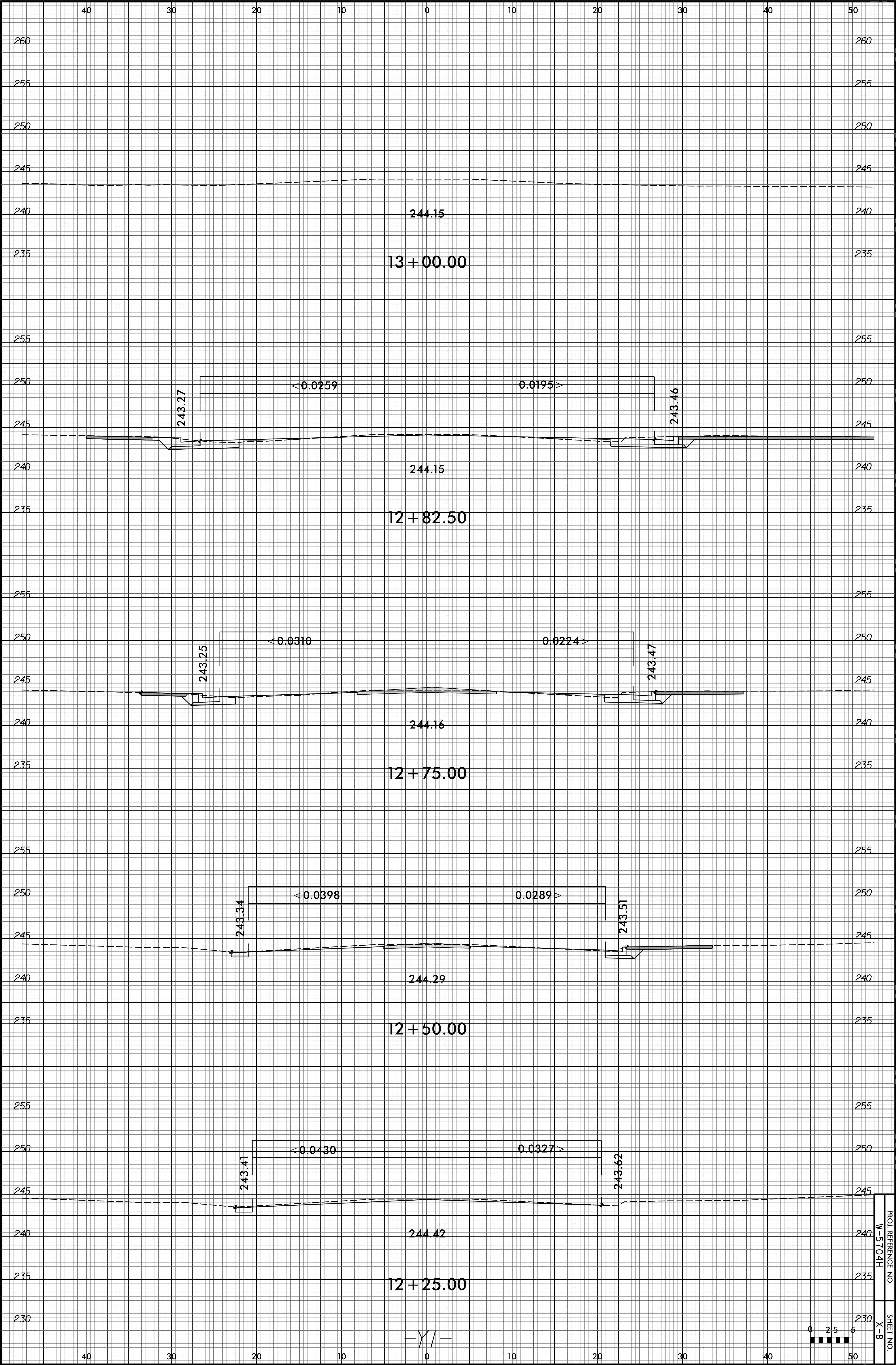


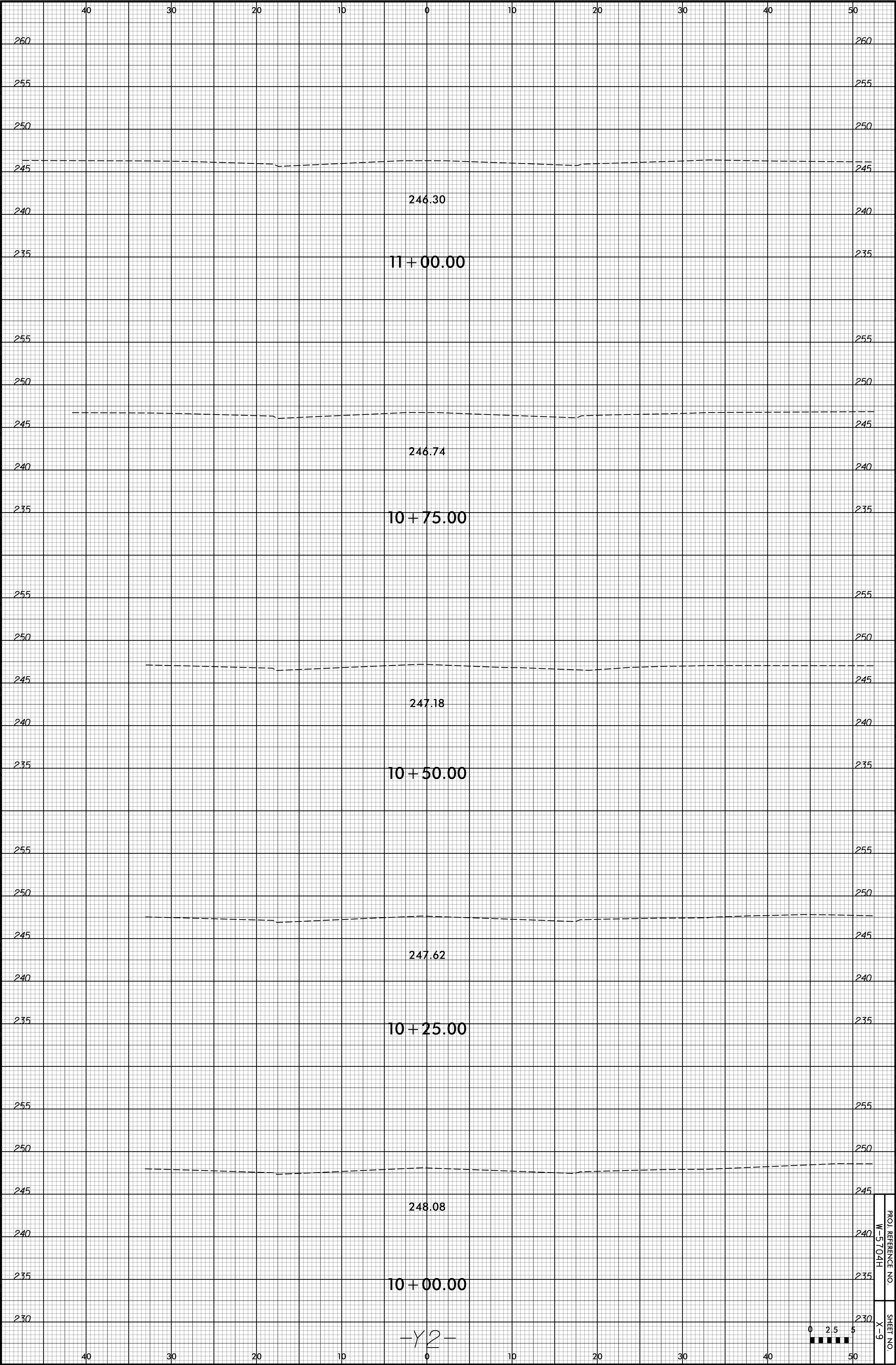


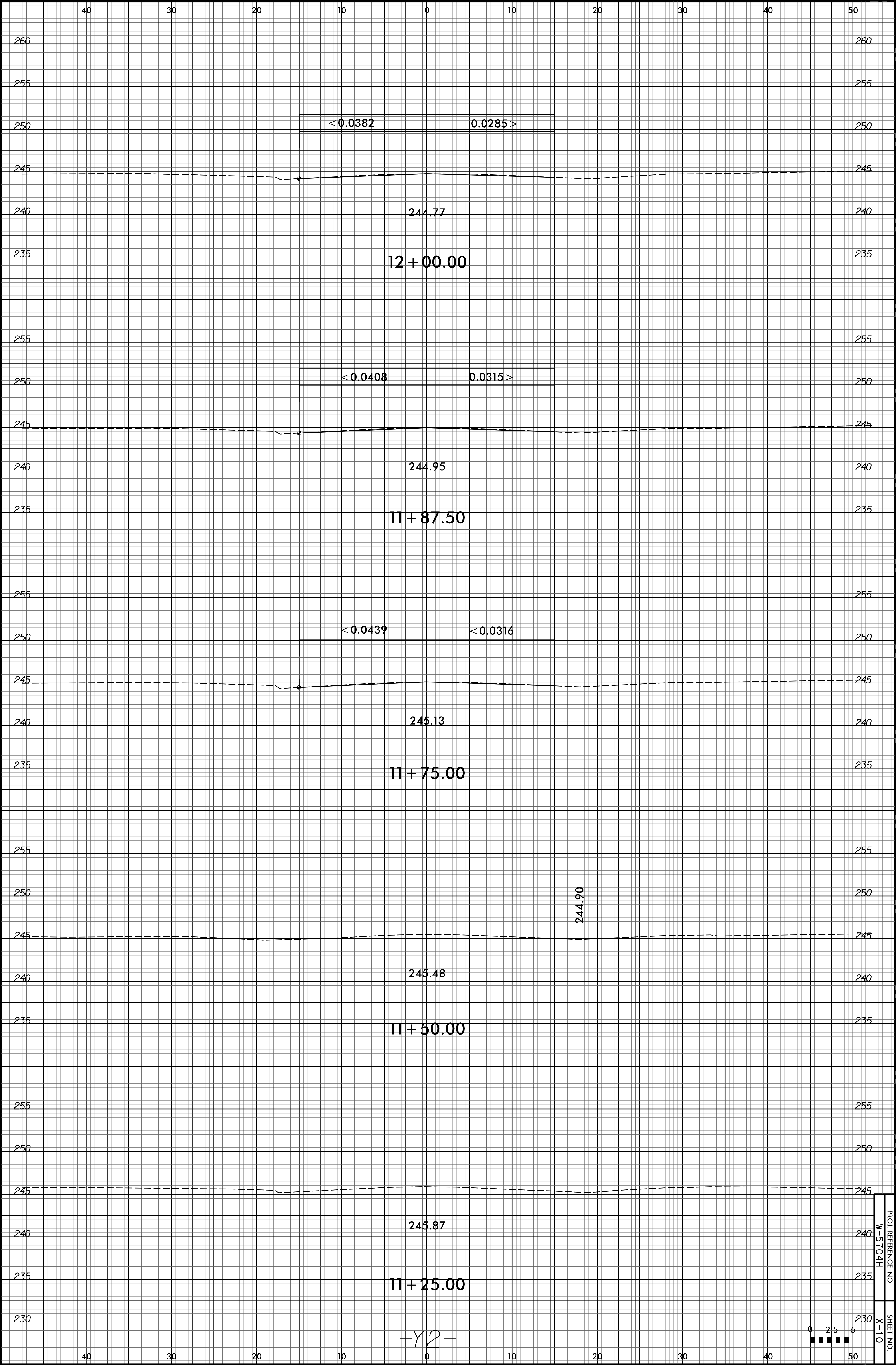




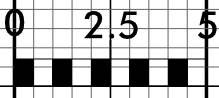


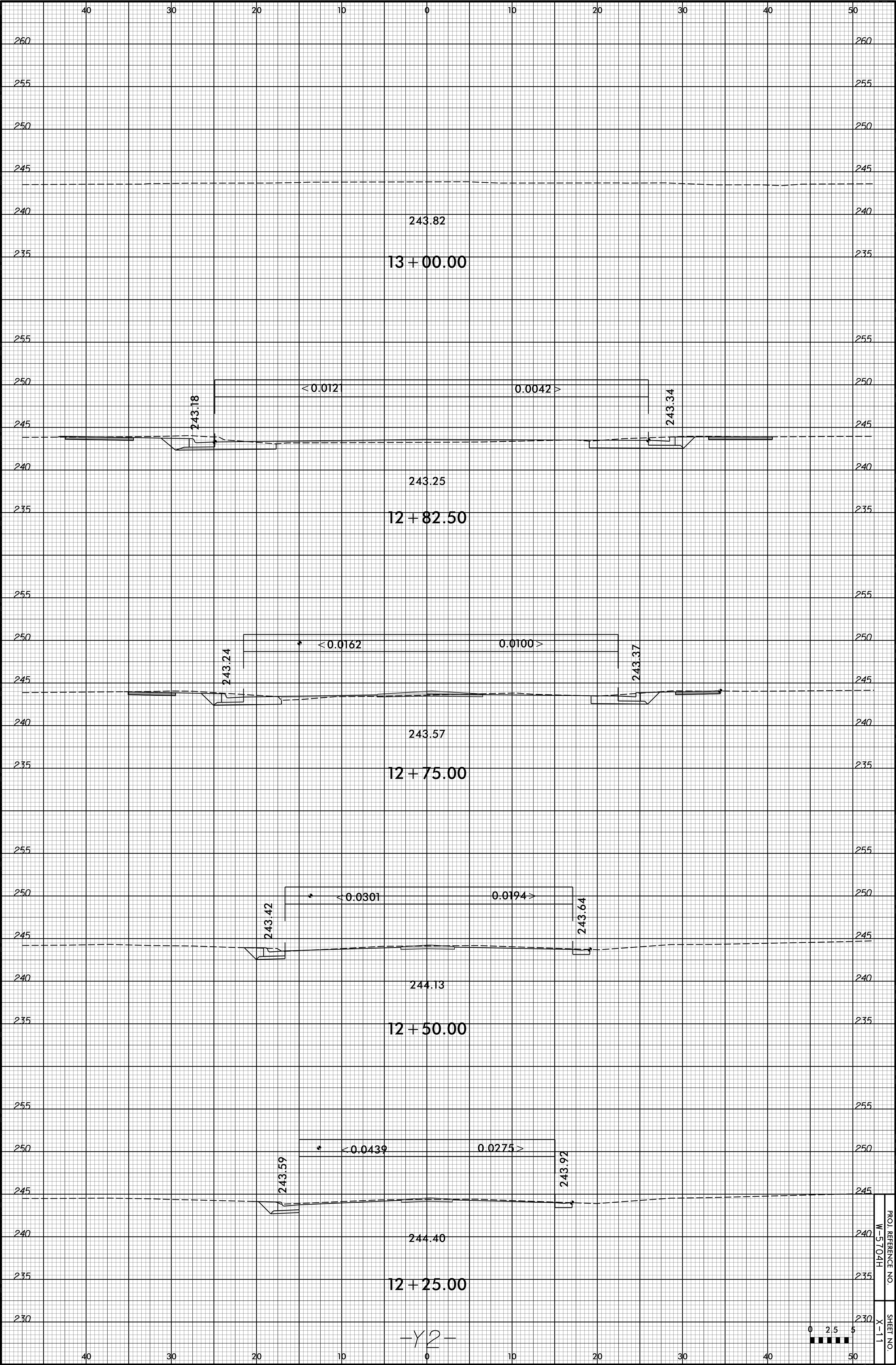


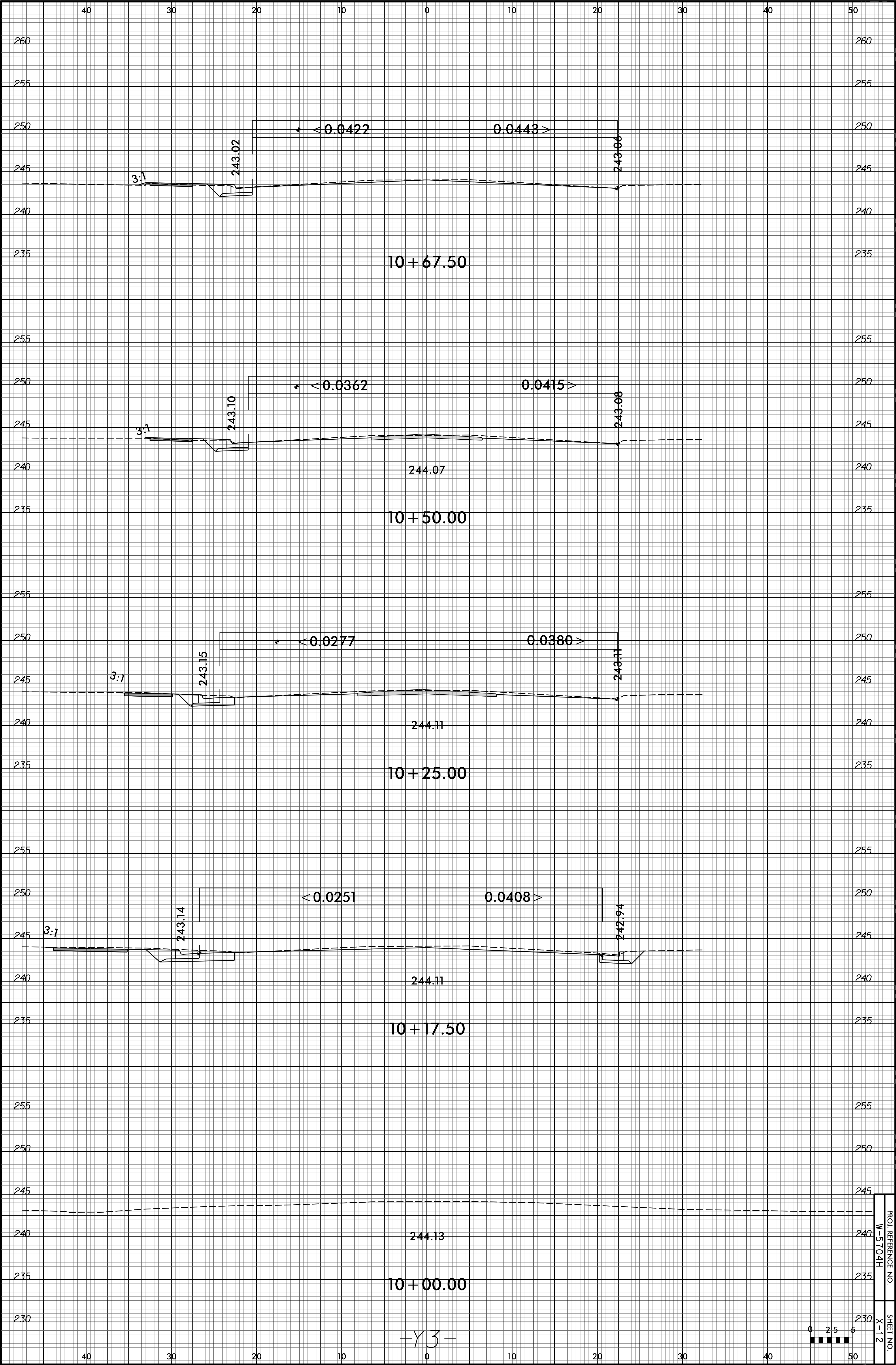




-Y2-







-Y3-

