

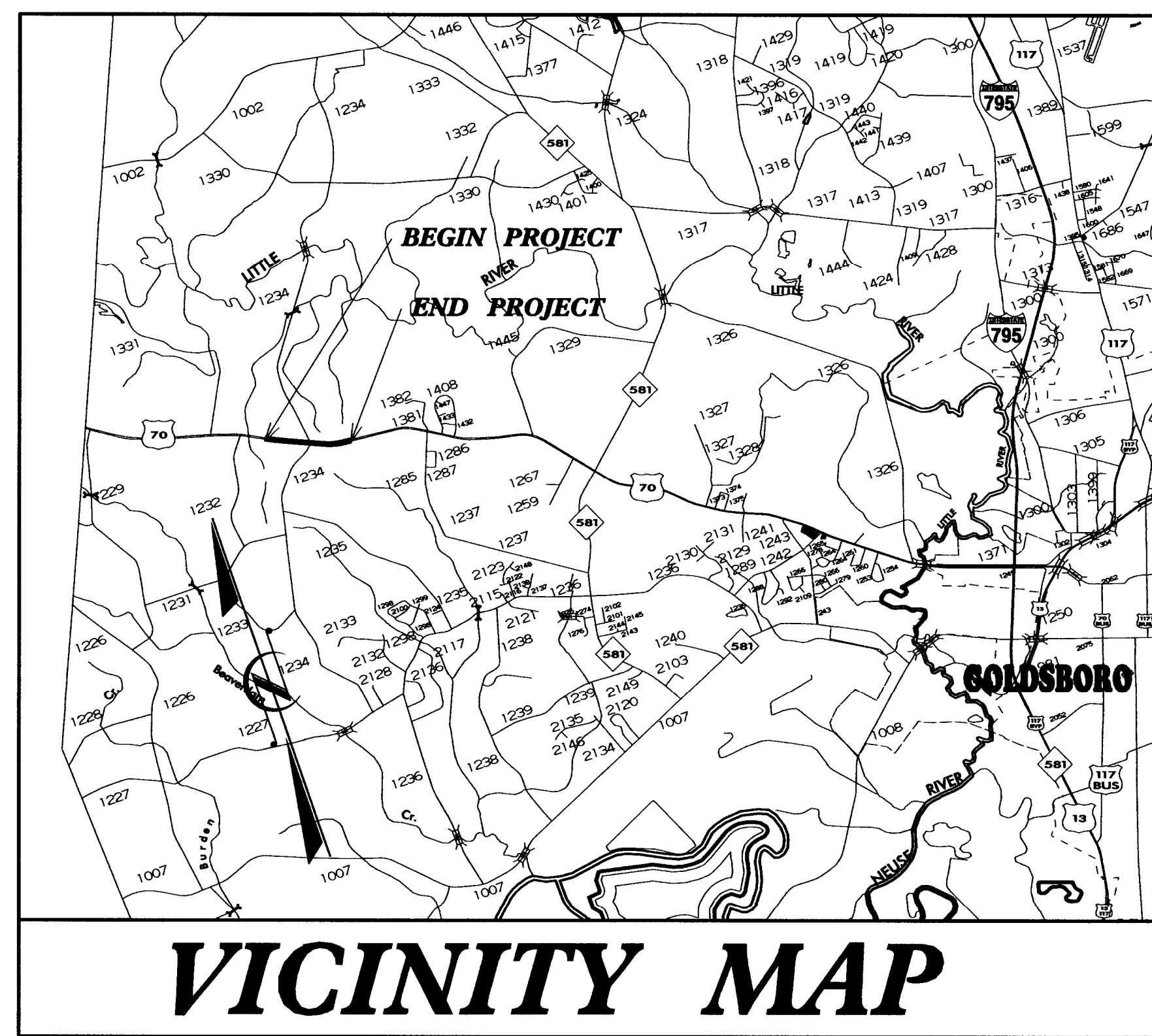
HP4502

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
WAYNE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5010	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
41810.1.1	STP-0070(111)	PE	
41810.2.1	STP-0070(111)	R/W	
41810.3.1	STP-0070(111)	CONST	

TIP PROJECT: W-5010

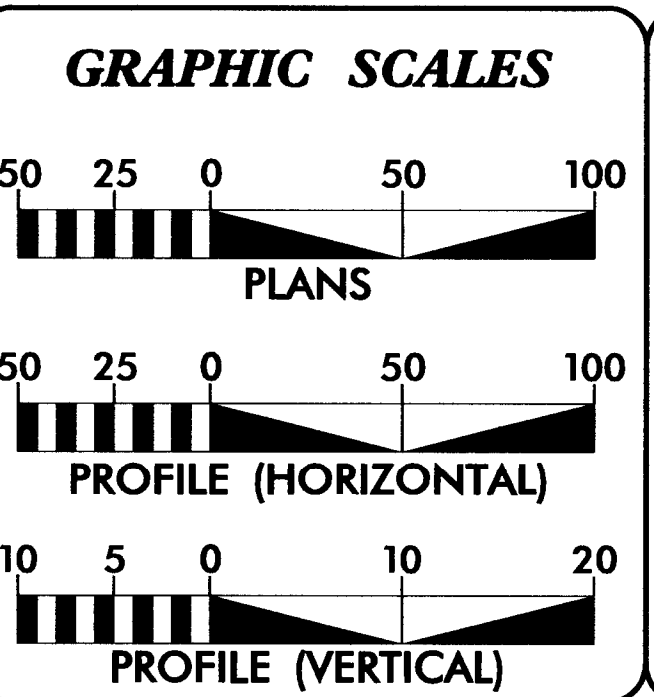
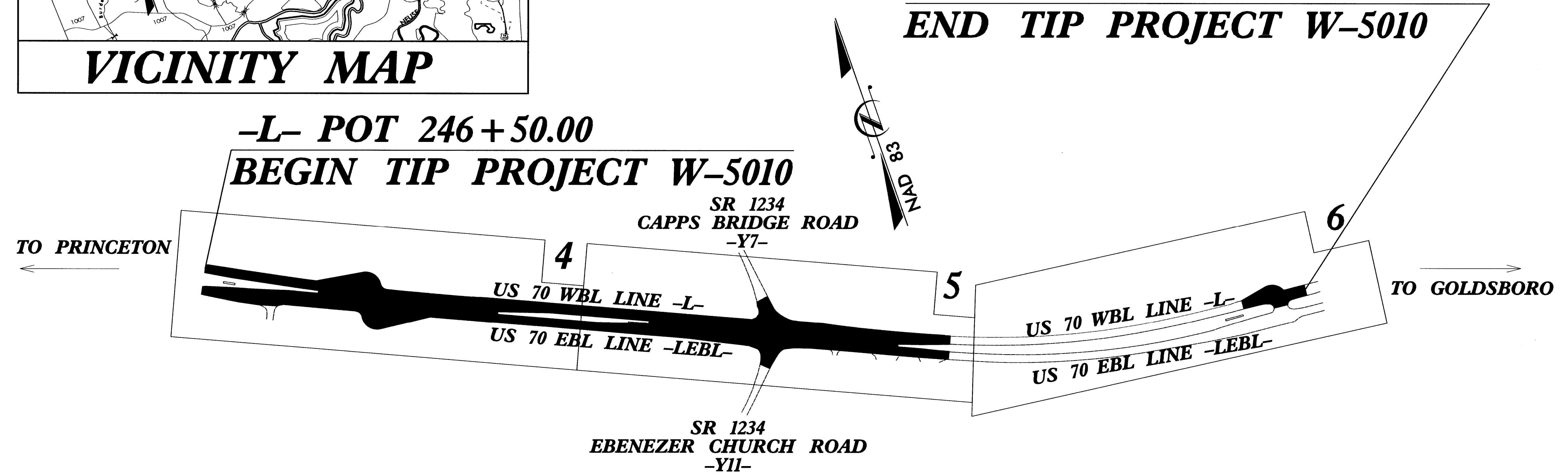


**LOCATION: US 70 FROM 0.390 MILES WEST OF SR 1234
 (EBENEZER CHURCH ROAD-CAPPS BRIDGE ROAD)
 TO 0.358 MILES EAST OF SR 1234**

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING

**-L- POT 286+00.00
 END TIP PROJECT W-5010**

**-L- POT 246+50.00
 BEGIN TIP PROJECT W-5010**



DESIGN DATA

V = 60 MPH

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT W-5010 = 0.748 MILES
 TOTAL LENGTH TIP PROJECT W-5010 = 0.748 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JUNE 2010

LETTING DATE:

R.W. LEWIS, PE
 PROJECT ENGINEER

J. C. CAULEY, PLS
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

R.C. Long 11-15-10
 SIGNATURE:

ROADWAY DESIGN ENGINEER

J.C. Cauley 11/17/10
 SIGNATURE:

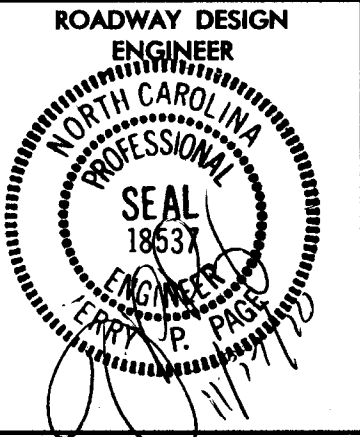
**DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA**

STATE HIGHWAY DESIGN ENGINEER

12-NOV-2010 13:57
 R:\proj\w5010_ddc4_tsh.dgn
 \$\$\$USERNAME\$\$\$

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
W-5010	1-A



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEET
2 THRU 2-A	TYPICAL SECTIONS, PAVEMENT SCHEDULE, & WEDGING DETAIL
2-B	INTERSECTIONS DETAILS
2-C	DETAIL FOR ANCHORAGE FOR FRAMES
2-D	DETAIL FOR METHOD OF PIPE INSTALLATION, RIGID PIPE
2-E	DETAIL FOR METHOD OF PIPE INSTALLATION, FILL HEIGHT TABLES
3	SUMMARY OF QUANTITIES
3-A	DRAINAGE SUMMARY
3-B	SUMMARY OF EARTHWORK & SUMMARY OF HYDRAULIC RIP RAP & DDE
4 THRU 6	PLAN & PROFILE SHEETS
TMP-1 THRU TMP-5	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-4	PAVEMENT MARKING PLANS
EC-1 THRU EC-6	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-7	SIGNING PLANS
X-1A THRU X-1B	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-13	CROSS-SECTIONS

GENERAL NOTES

GENERAL NOTES: 2006 SPECIFICATIONS EFFECTIVE: 07-18-06
REVISED: 07-30-08

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.

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.
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.

LIST OF STANDARDS DRAWINGS

EFF. 07-18-06
REV. 01-02-07

2006 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 July 18, 2006 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
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.05	Method of Obtaining Superelevation - Divided Highways
DIVISION 3 - PIPE CULVERTS	
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
840.00	Concrete Base Pad for Drainage Structures
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.22	Frames and Wide Slot Sag Grates
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
852.01	Concrete Islands
852.06	Method for Placement of Drop Inlets in Concrete Islands
876.02	Guide for Rip Rap at Pipe Outlets

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

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
Property Corner	-----
Property Monument	□ EDM
Parcel/Sequence Number	(123)
Existing Fence Line	-----
Proposed Woven Wire Fence	-----
Proposed Chain Link Fence	-----
Proposed Barbed Wire Fence	-----
Existing Wetland Boundary	----- WLB
Proposed Wetland Boundary	----- WLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB

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	----- 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	-----
Switch	-----
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	-----
Proposed Control of Access	-----
Existing Easement Line	----- E
Proposed Temporary Construction Easement	----- E
Proposed Temporary Drainage Easement	----- TDE
Proposed Permanent Drainage Easement	----- PDE
Proposed Permanent Drainage / Utility Easement	----- DUE
Proposed Permanent Utility Easement	----- PUE
Proposed Temporary Utility Easement	----- TUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Wheel Chair Ramp	----- WCR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----

VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	----- Vineyard

EXISTING STRUCTURES:

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

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊞
U/G Power Cable Hand Hole	⊞
H-Frame Pole	●
Recorded U/G Power Line	----- P
Designated U/G Power Line (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	⊞
Telephone Pedestal	⊞
Telephone Cell Tower	⊞
U/G Telephone Cable Hand Hole	⊞
Recorded U/G Telephone Cable	----- T
Designated U/G Telephone Cable (S.U.E.*)	----- T
Recorded U/G Telephone Conduit	----- TC
Designated U/G Telephone Conduit (S.U.E.*)	----- TC
Recorded U/G Fiber Optics Cable	----- T FO
Designated U/G Fiber Optics Cable (S.U.E.*)	----- T FO

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

TV:

TV Satellite Dish	⊞
TV Pedestal	⊞
TV Tower	⊗
U/G TV Cable Hand Hole	⊞
Recorded U/G TV Cable	----- TV
Designated U/G TV Cable (S.U.E.*)	----- TV
Recorded U/G Fiber Optic Cable	----- TV FO
Designated U/G Fiber Optic Cable (S.U.E.*)	----- TV FO

GAS:

Gas Valve	⊕
Gas Meter	⊕
Recorded U/G Gas Line	----- G
Designated U/G Gas Line (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
Recorded SS Forced Main Line	----- FSS
Designated SS Forced Main Line (S.U.E.*)	----- FSS

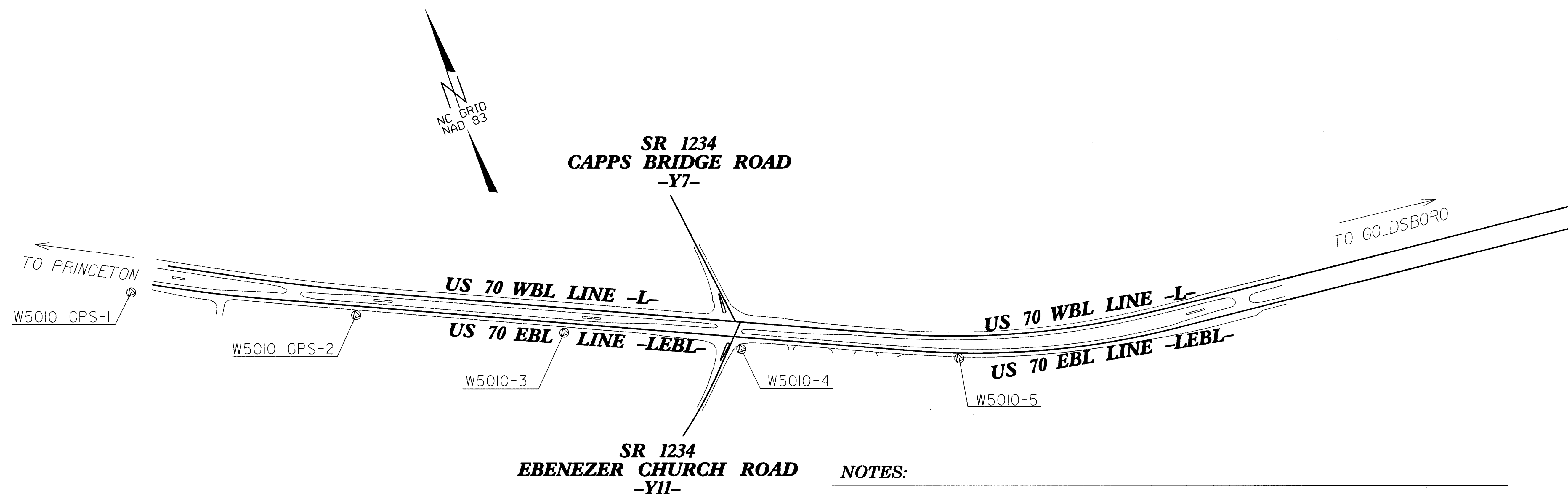
MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	⊞
Utility Located Object	○
Utility Traffic Signal Box	⊞
Utility Unknown U/G Line	----- ?UTL
U/G Tank; Water, Gas, Oil	-----
A/G Tank; Water, Gas, Oil	-----
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

SURVEY CONTROL SHEET W-5010

BASELINE DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	LEBL STATION	OFFSET
1		W5010 GPS-1	618297.1000	2265126.0080	144.22	OUTSIDE PROJECT LIMITS	
2		W5010 GPS-2	617959.8640	2265845.2030	141.77	17+22.54	31.83 RT
3		W5010-3	617658.8740	2266516.7900	141.86	24+58.49	34.02 RT
4		W5010-4	617397.1970	2267085.3860	143.04	30+84.36	42.12 RT
5		W5010-5	617112.1660	2267796.8420	144.20	38+49.21	18.84 RT



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "W5010 GPS-1" WITH NAD 83 STATE PLANE GRID COORDINATES OF
 NORTHING: 618297.100(ft) EASTING: 2265126.008(ft)
 ELEVATION: 144.219(ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987687
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "W5010 GPS-1" TO -LEBL- STATION 10+00.00 IS
 N 89°29'52.8" E 79.21'
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

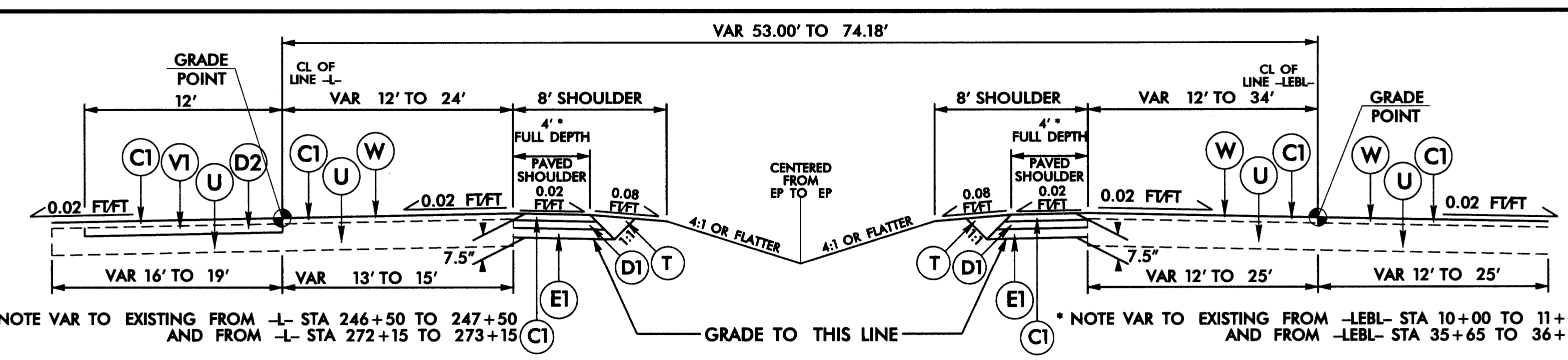
NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/doh/preconstruct/highway/location/project/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 W5010_LS_CONTROL_101012.TXT

SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

⊙ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
 NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

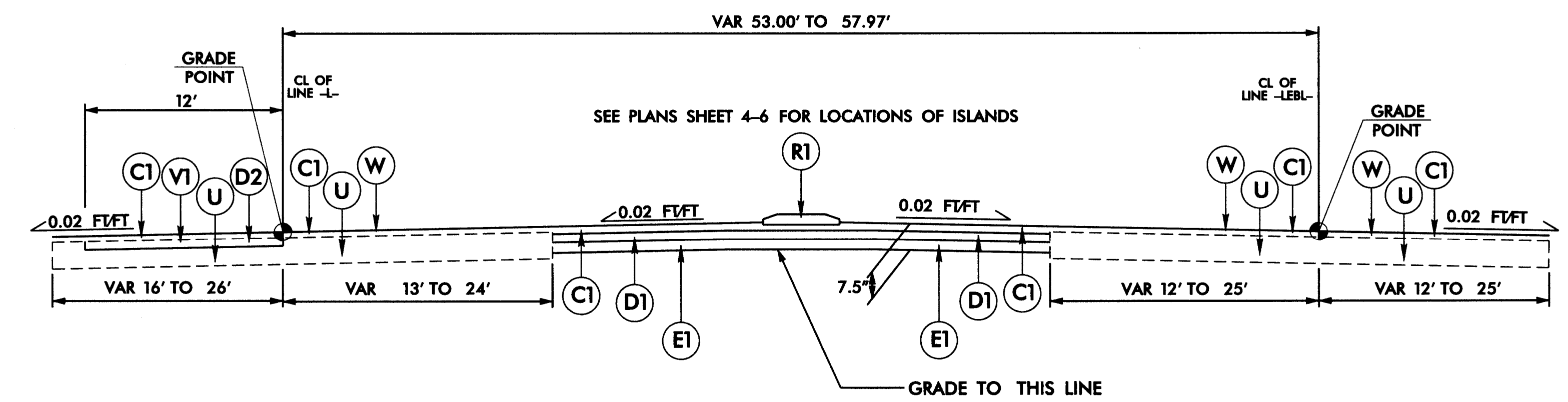
NOTE: DRAWING NOT TO SCALE



USE TYPICAL SECTION NO. 1
 FROM -L- STA 246+50 TO 250+64
 FROM -L- STA 256+98 TO 262+47
 FROM -L- STA 271+28 TO 273+15

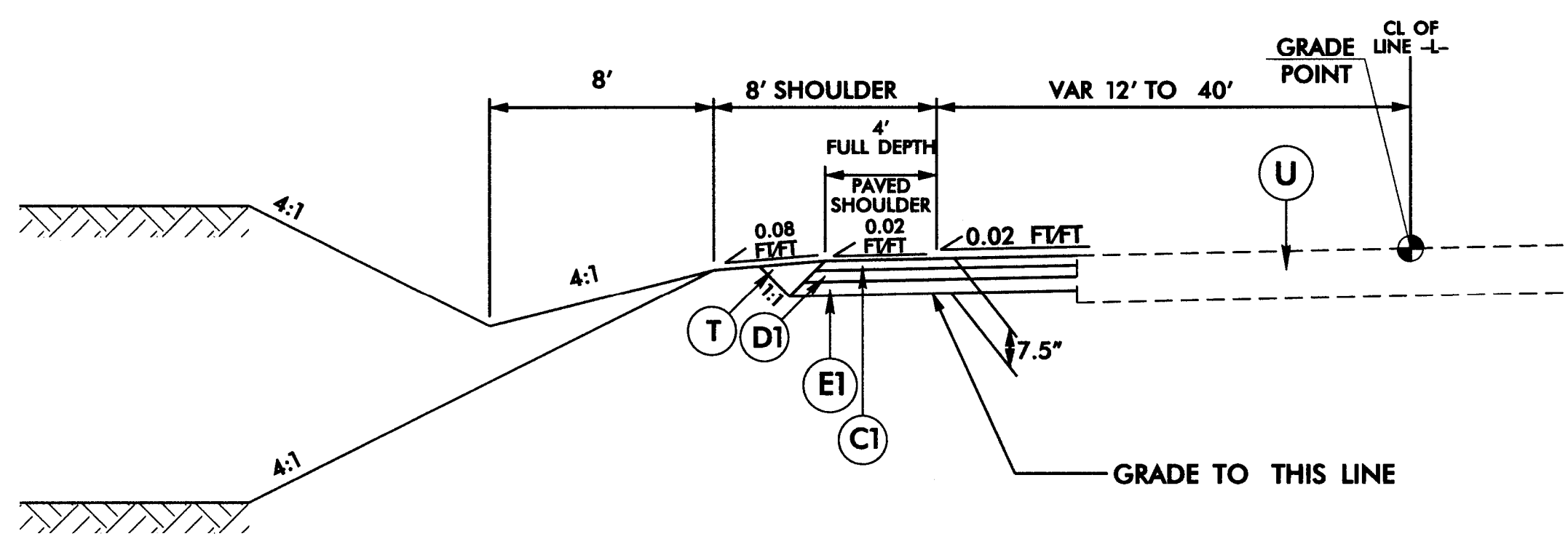
* NOTE VAR TO EXISTING FROM -L- STA 246+50 TO 247+50 AND FROM -L- STA 272+15 TO 273+15
 * NOTE VAR TO EXISTING FROM -LEBL- STA 10+00 TO 11+00 AND FROM -LEBL- STA 35+65 TO 36+65

TYPICAL SECTION NO. 1



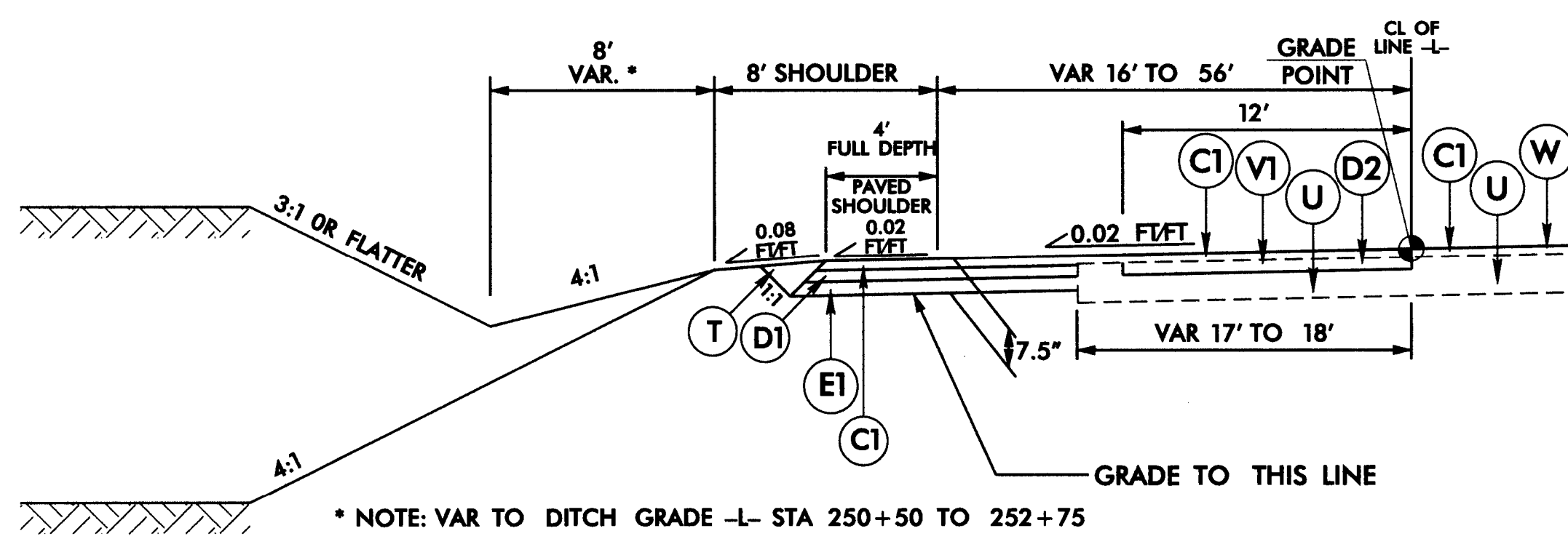
USE TYPICAL SECTION NO. 2
 FROM -L- STA 250+64 TO 256+98
 FROM -L- STA 262+47 TO 271+28

TYPICAL SECTION NO. 2



USE TYPICAL SECTION NO. 3
 FROM -L- STA 283+69 TO 285+23

TYPICAL SECTION NO. 3



USE PARTIAL TYPICAL SECTION NO. 4
 WITH TYPICAL SECTIONS 1 AND 2
 FROM -L- STA 250+45 TO 253+00

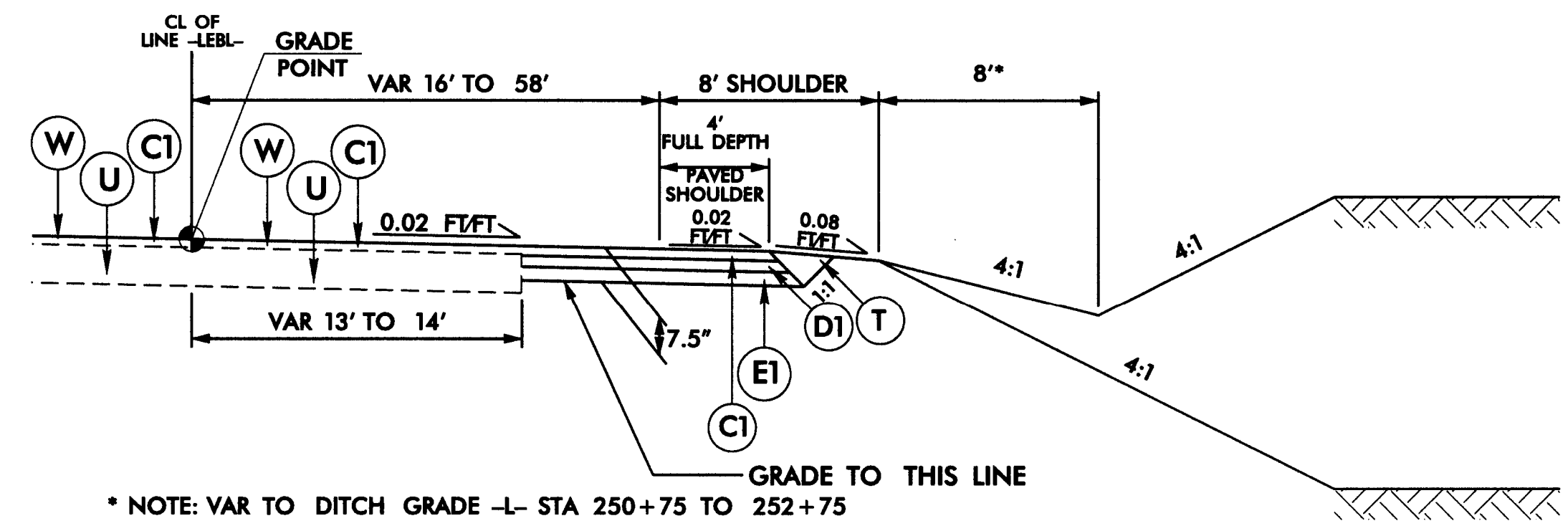
PARTIAL TYPICAL SECTION NO. 4

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.
C2	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 2" IN DEPTH.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR NOT TO EXCEED 4" IN DEPTH.
E1	PROP. APPROX. 3.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YARD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" OR NOT TO EXCEED 5.5" IN DEPTH.
R1	5" MONOLITHIC CONCRETE ISLAND.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING BITUMINOUS PAVEMENT 12' WIDE AND 2.5" IN DEPTH.
V2	MILLING BITUMINOUS PAVEMENT VAR 0" TO 1.5" IN DEPTH.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL SHEET No. 2A)

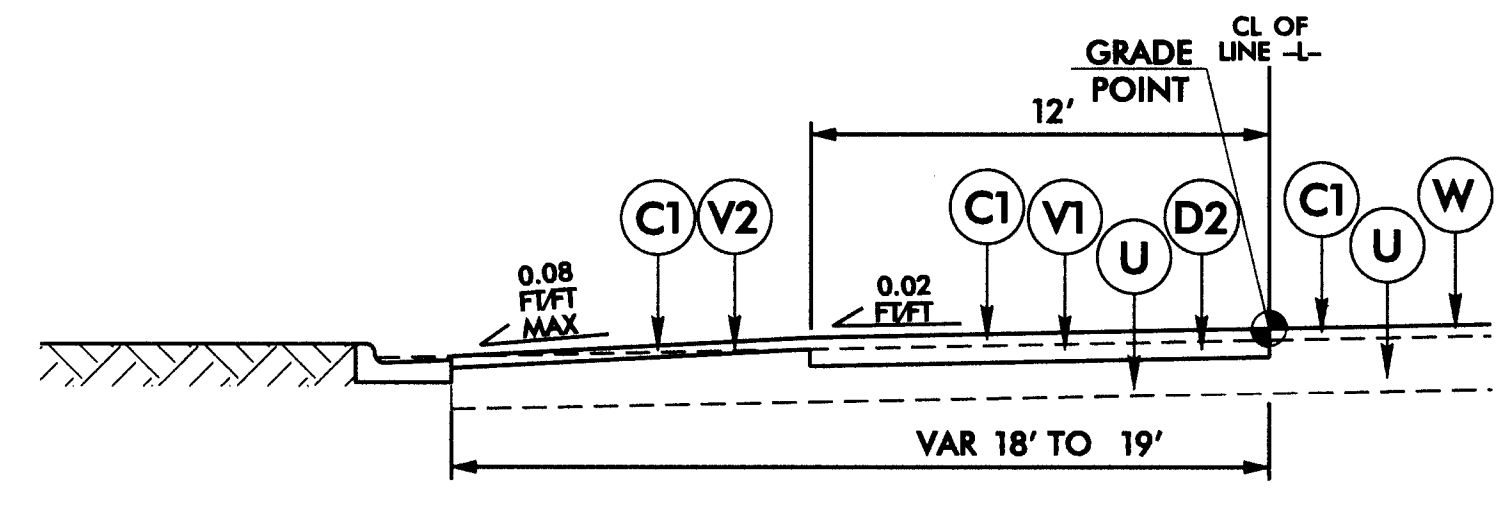
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

NOTE: RESURFACE LINE -Y7- FROM 13+75 TO 14+70
 RESURFACE LINE -Y11- FROM 10+80 TO 11+65

HP-4500



PARTIAL TYPICAL SECTION NO. 5



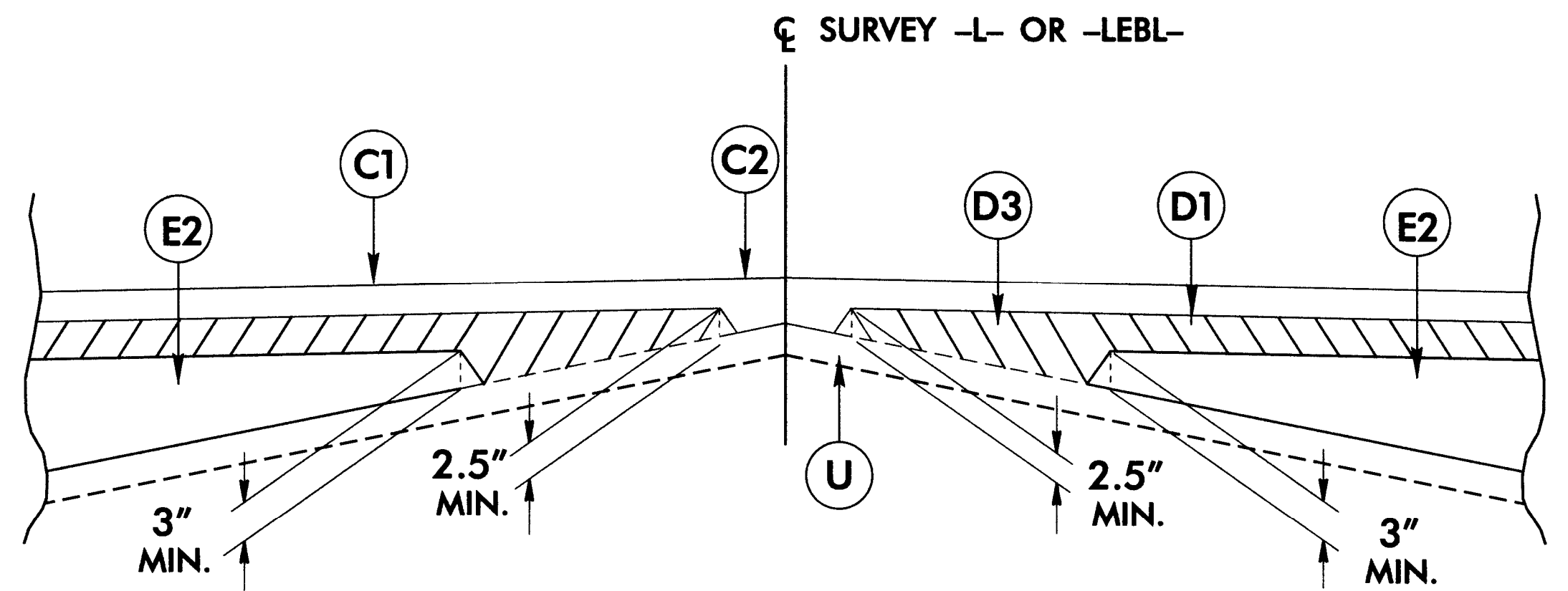
PARTIAL TYPICAL SECTION NO. 6

USE PARTIAL TYPICAL SECTION NO. 5
WITH TYPICAL SECTIONS 2
FROM -L- STA 252+00 TO 254+63

USE PARTIAL TYPICAL SECTION NO. 6
WITH TYPICAL SECTIONS 1 AND 2
FROM -L- STA 256+55 TO 266+00

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.
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D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR NOT TO EXCEED 4" IN DEPTH.
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R1	5" MONOLITHIC CONCRETE ISLAND.
T	EARTH MATERIAL.
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W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL SHEET No. 2A)

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



Detail Showing Method of Wedging

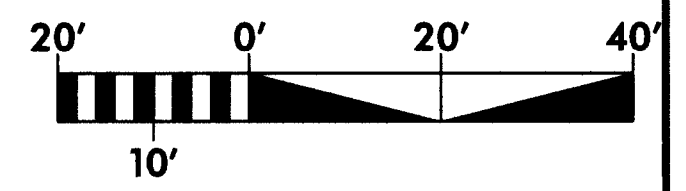
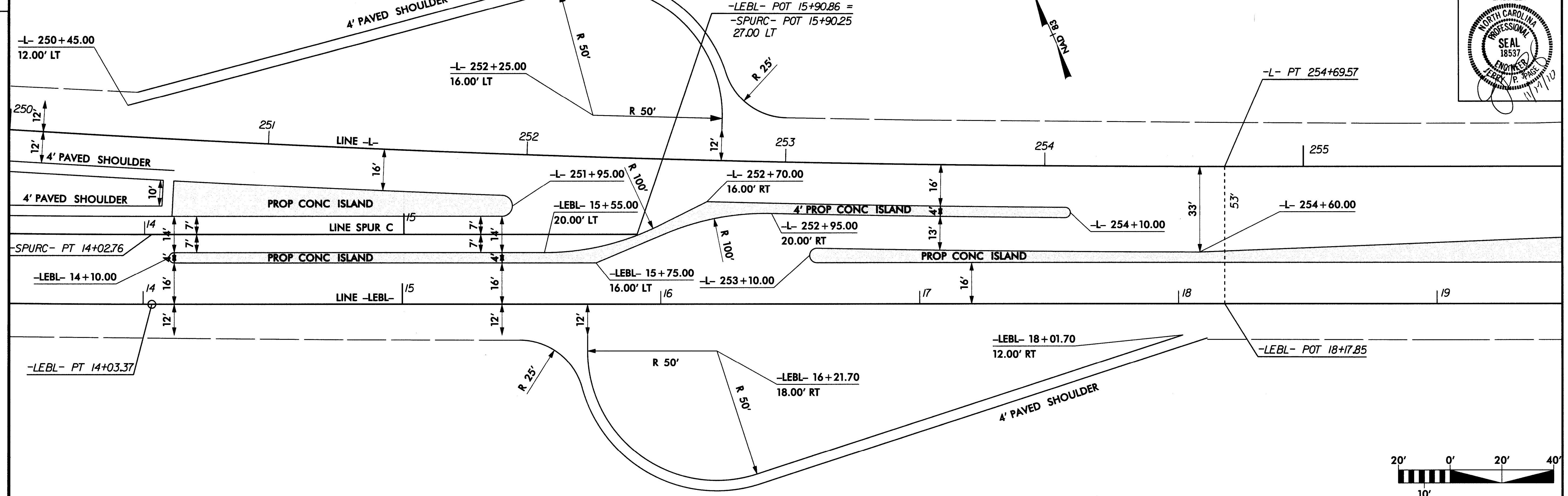
**INTERSECTION DETAIL
SEE SHEET 04 FOR PLAN**

PROJECT REFERENCE NO. W-5010	SHEET NO. 2-B
---------------------------------	------------------

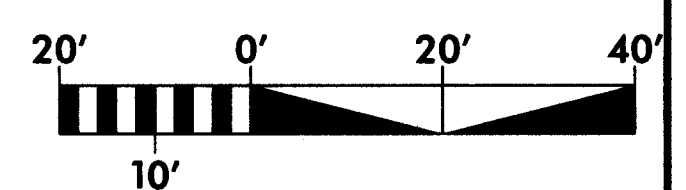
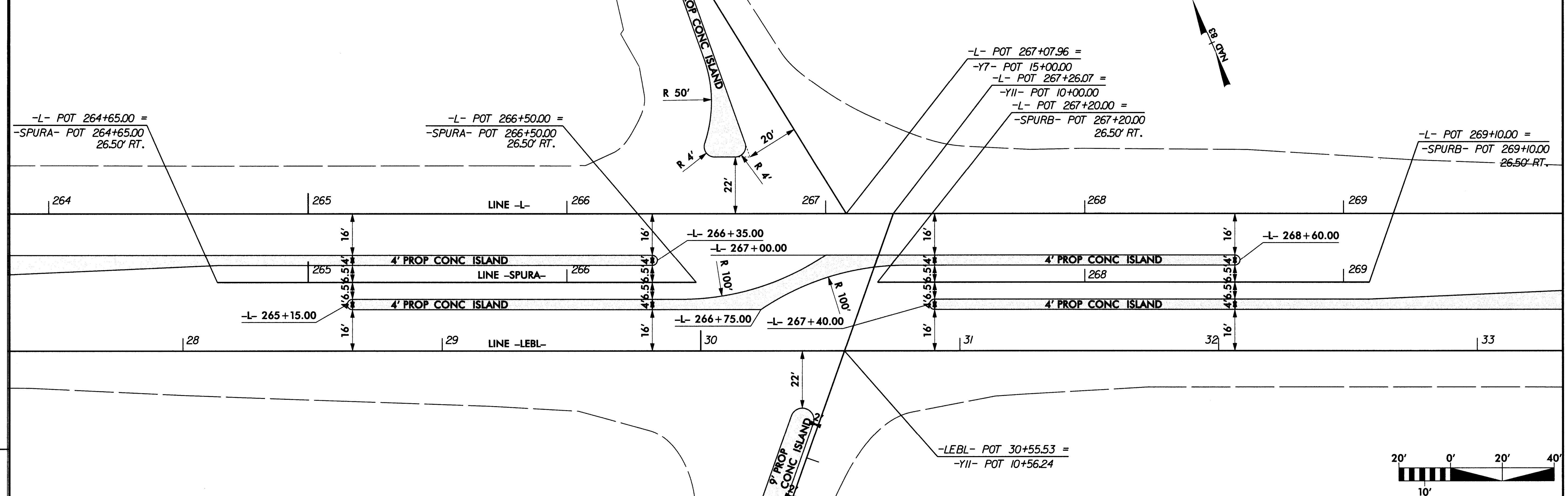
ROADWAY DESIGN ENGINEER

**NORTH CAROLINA
PROFESSIONAL
ENGINEER**

SEAL
18537
JERRY P. PASE
11/27/10



**INTERSECTION DETAIL
SEE SHEET 05 FOR PLAN**



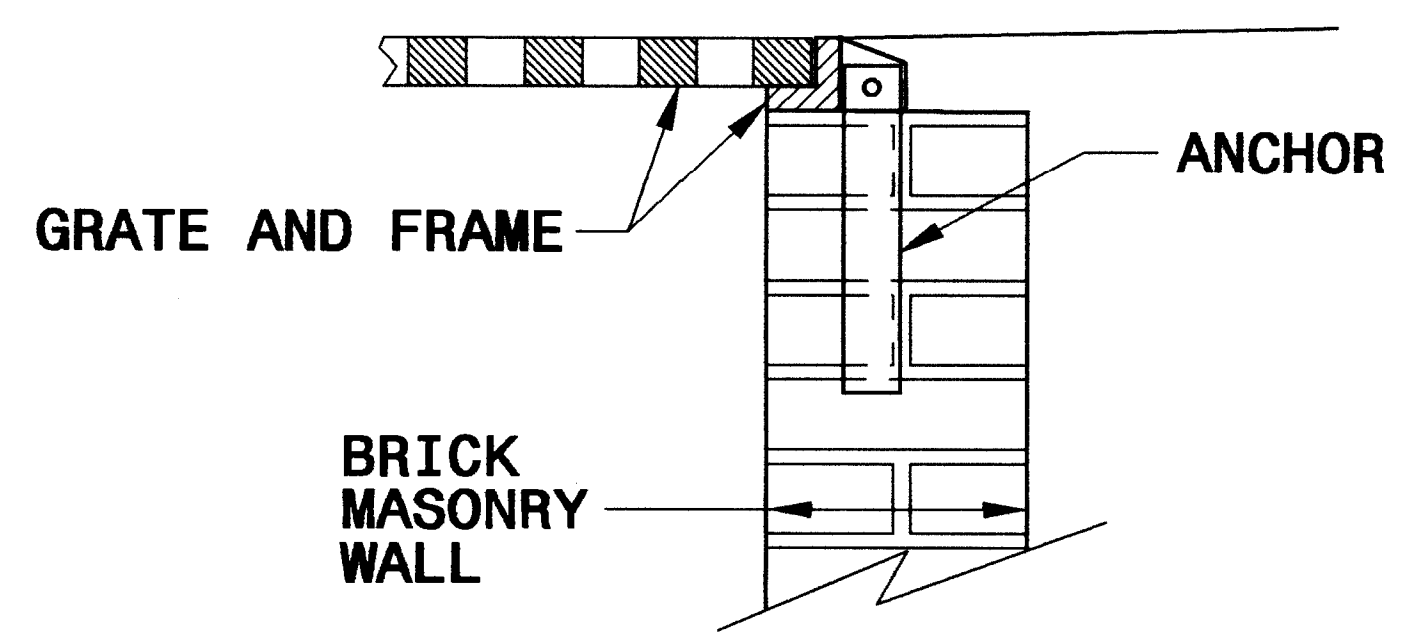
REVISIONS

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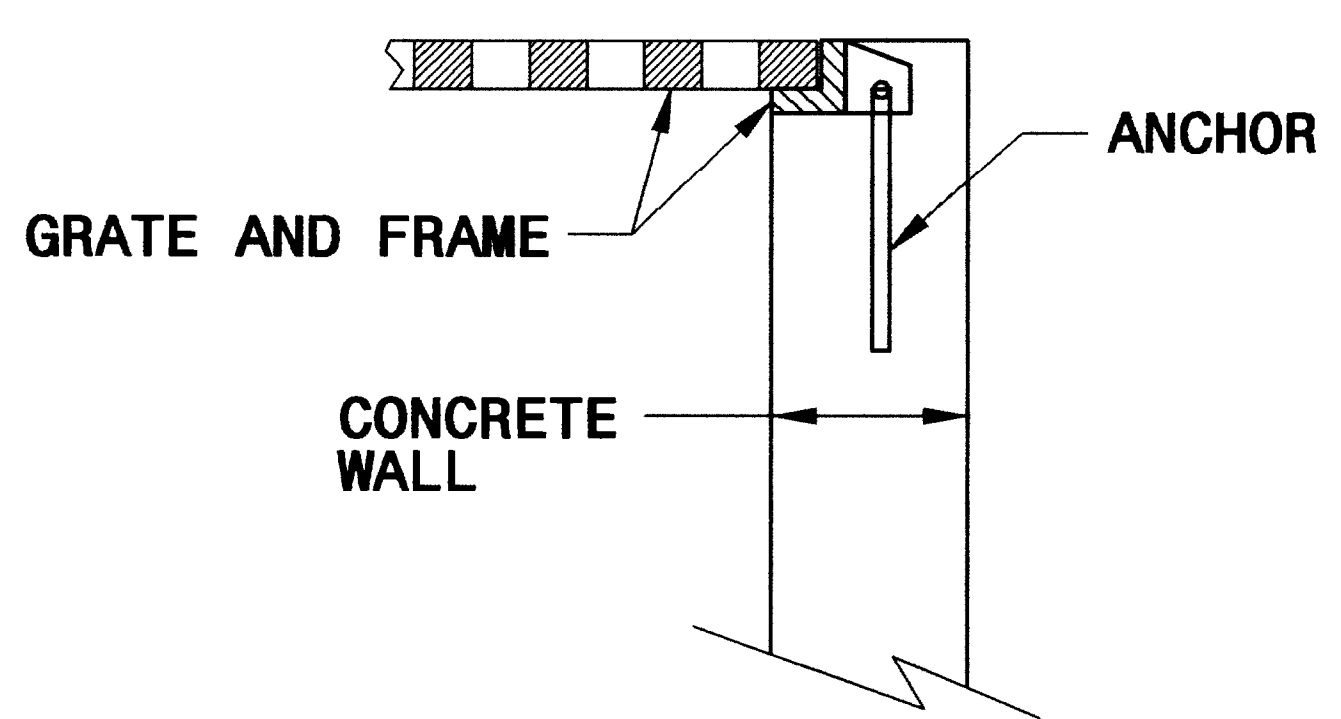
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE

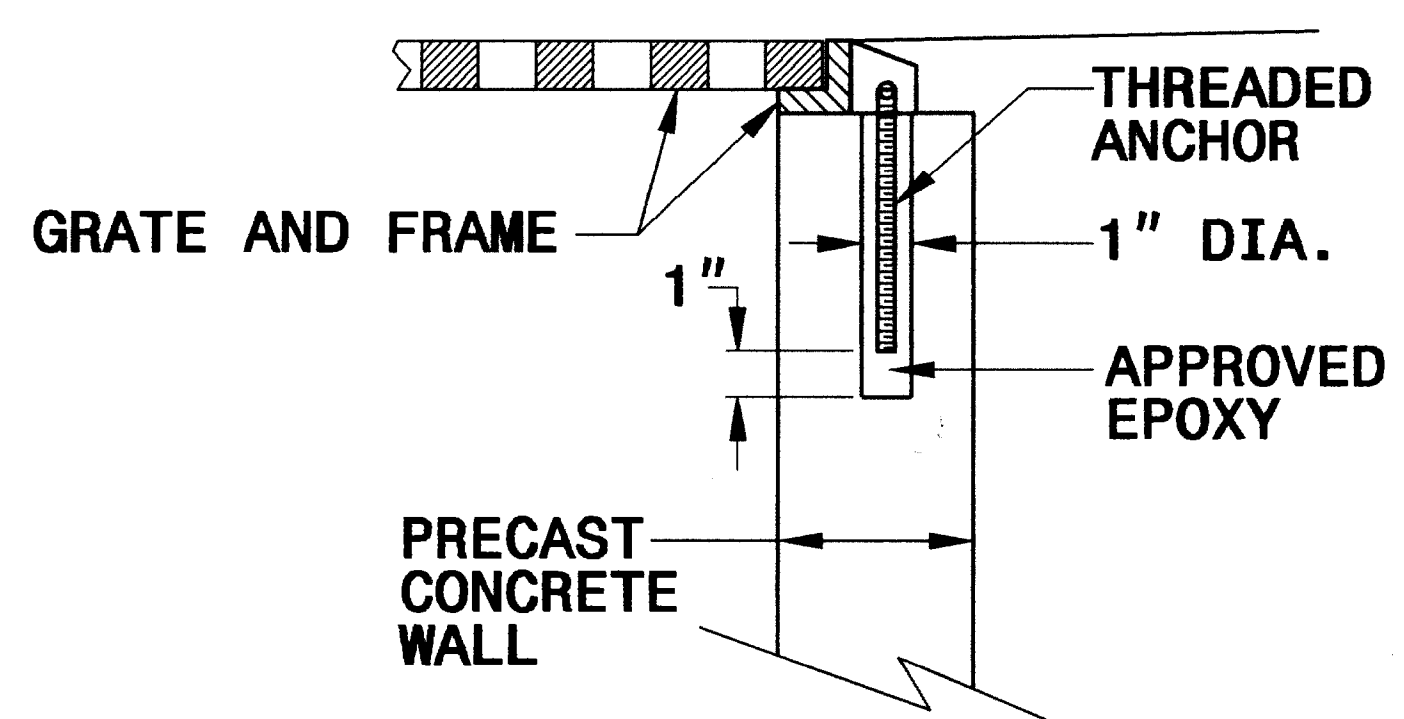
SHEET 1 OF 1
840D25



BRICK MASONRY CONSTRUCTION



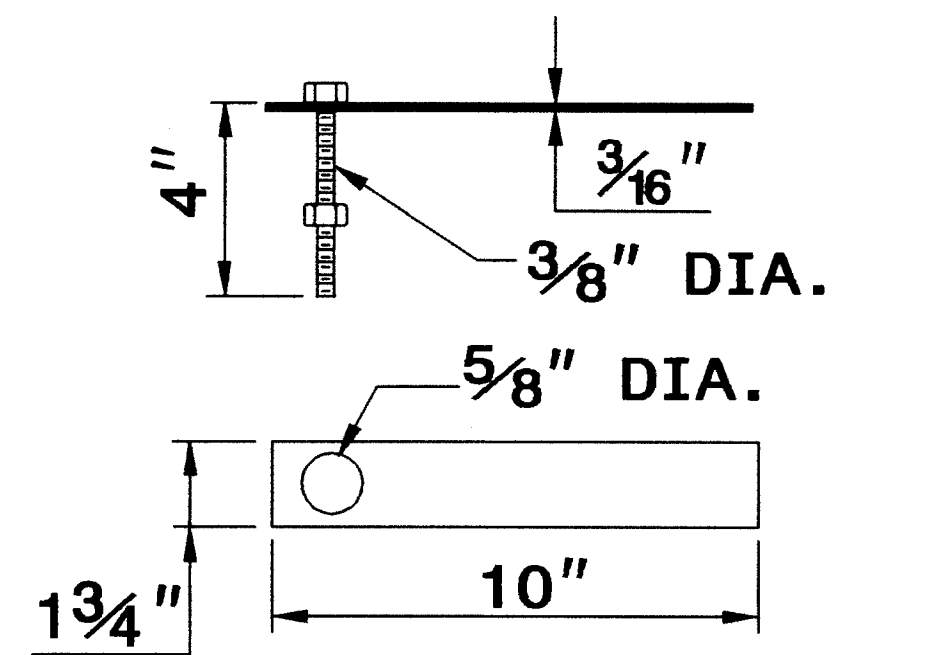
CONCRETE CONSTRUCTION



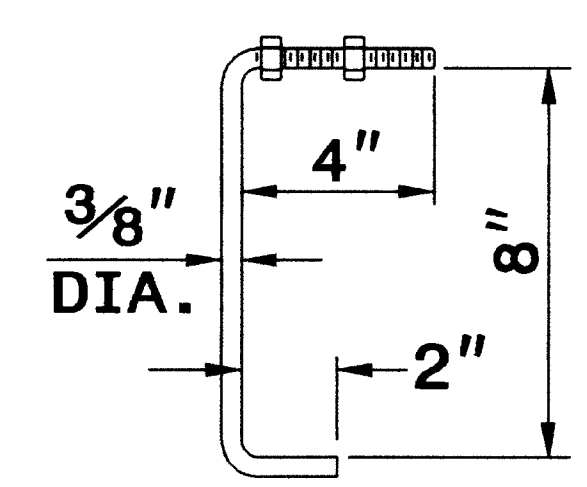
PRECAST CONCRETE CONSTRUCTION

DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

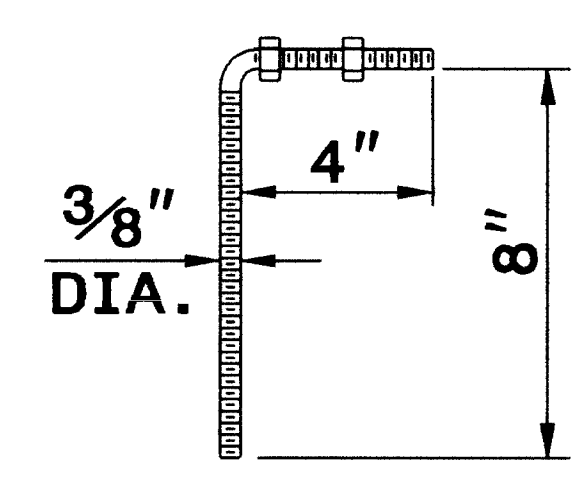
NOTE:
CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.



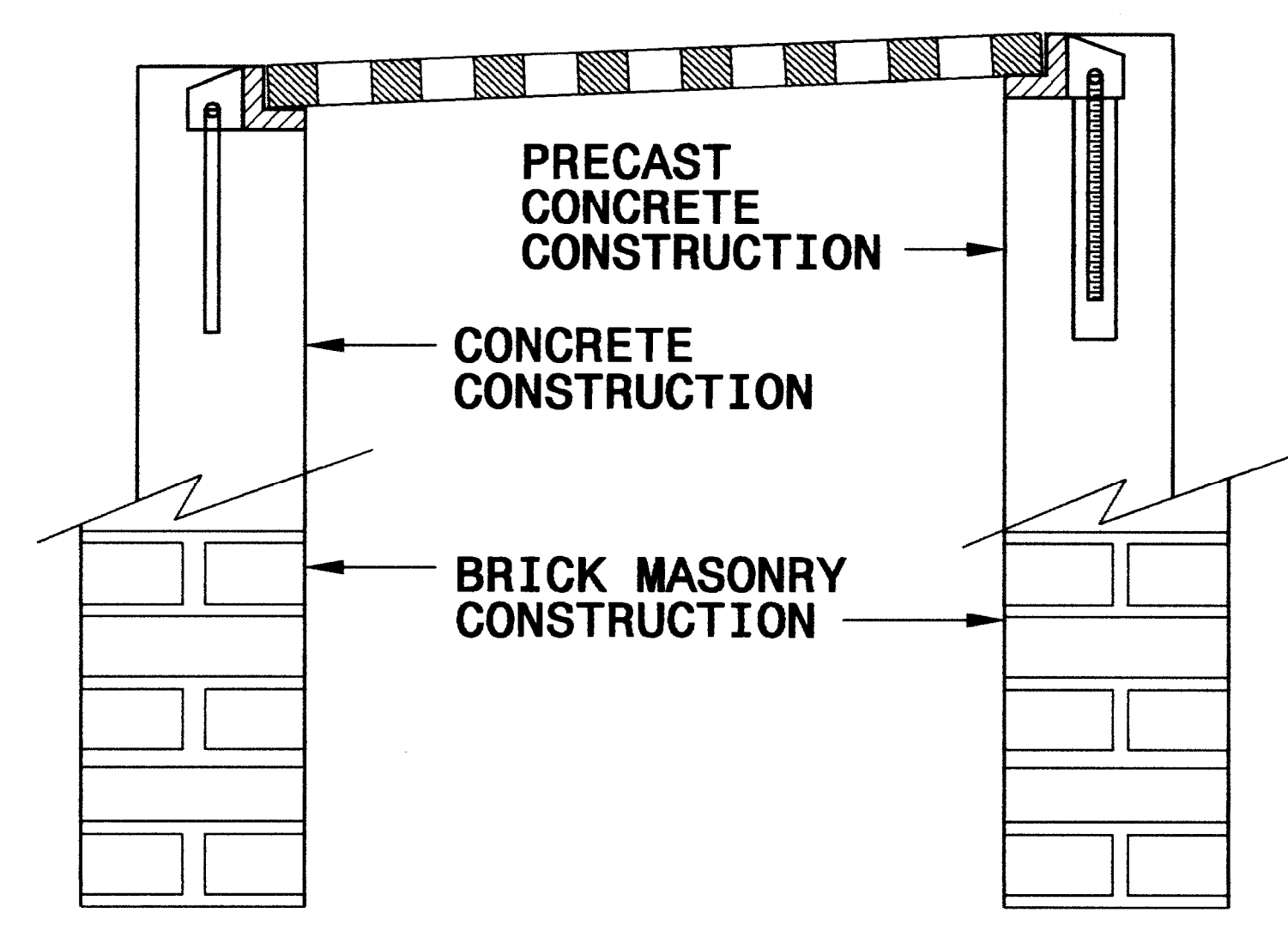
MASONRY ANCHOR
3/8" DIA. BOLT WITH PLATE



CONCRETE ANCHOR
3/8" DIA. BENT BAR



PRECAST CONCRETE ANCHOR
3/8" DIA. BENT BAR



FRAME AND GRATE INSTALLATION FOR NORMAL CROWN AND SUPERELEVATED SECTIONS

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

ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE

SHEET 1 OF 1
840D25

27-SEP-2006 08:59 S:\Contracts\Contractor\Special Details\ericward\stda\06\stds to Special Details\840D25 Anchorage for Frames\0840d25.dgn ericward AT PS22293

PROJECT SERVICES UNIT
STANDARDS AND SPECIAL DESIGN
Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

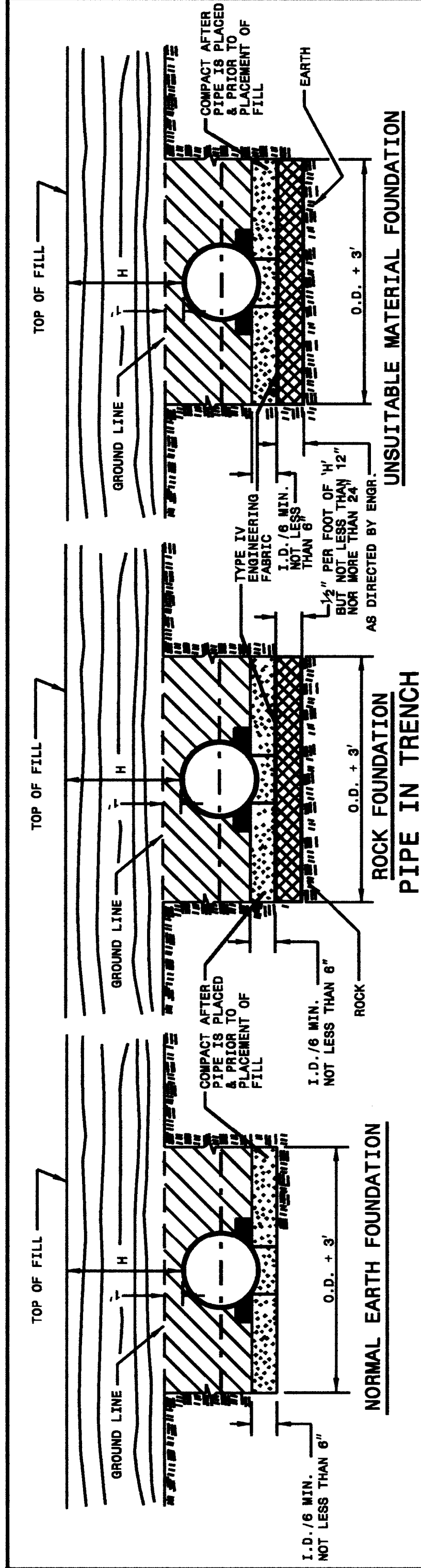
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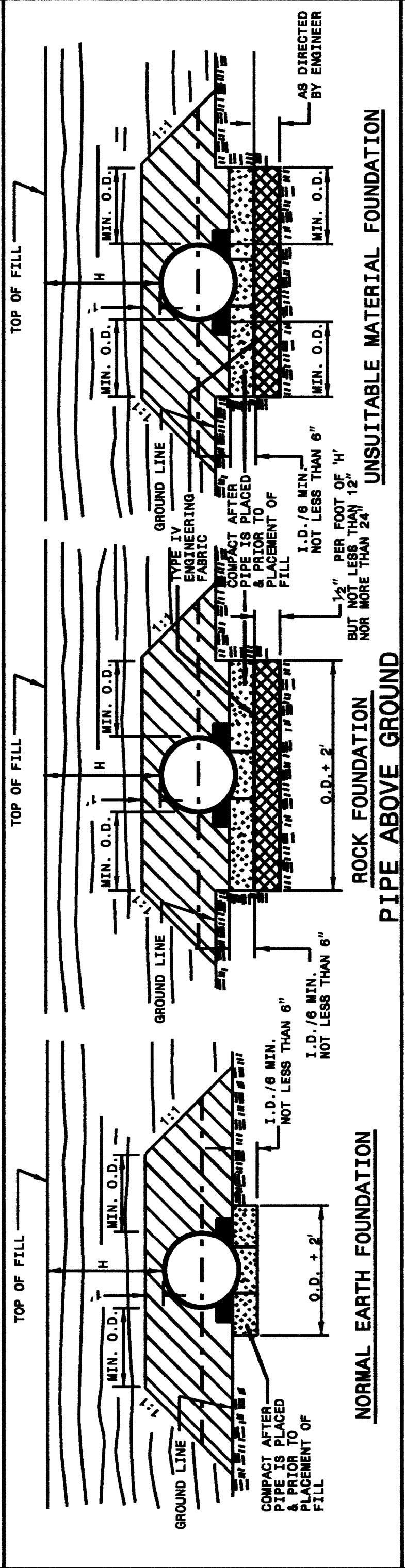
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

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



ENGLISH DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
 FLEXIBLE PIPE

ENGLISH DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
 FLEXIBLE PIPE



GENERAL NOTES:
 I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
 O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
 H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.
 TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.
 LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

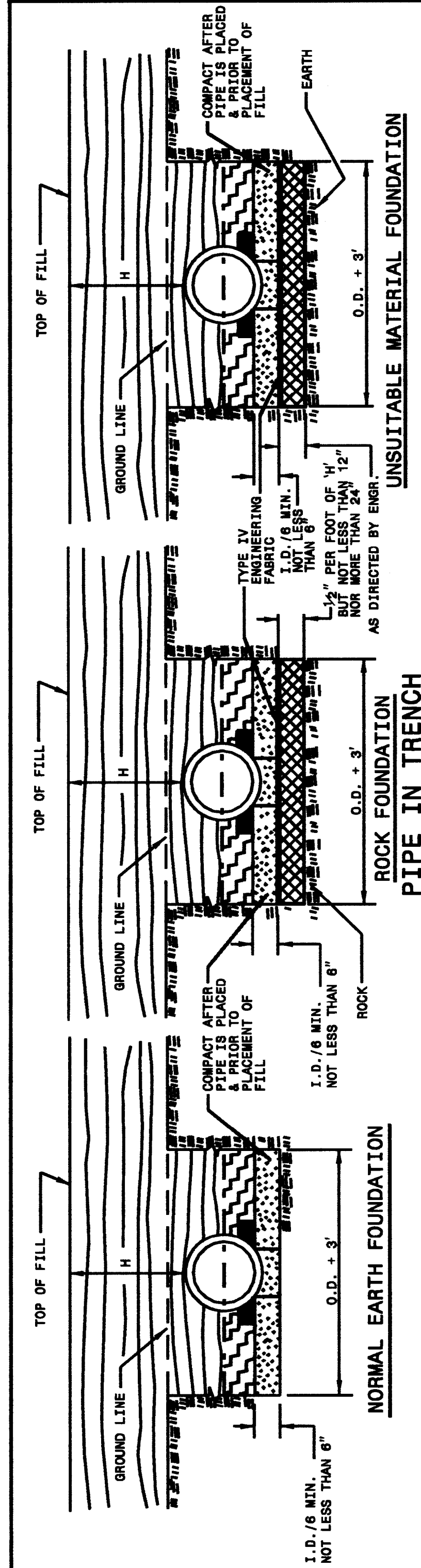
DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.
 --- SPRINGLINE OF PIPE
 SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPRINGLINE.
 APPROVED SUITABLE LOCAL MATERIAL.
 UNDISTURBED EARTH MATERIAL
 SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH ENGINEERING FABRIC AS DIRECTED BY THE ENGINEER.

SHEET 1 OF 3
300D01

SHEET 1 OF 3
300D01

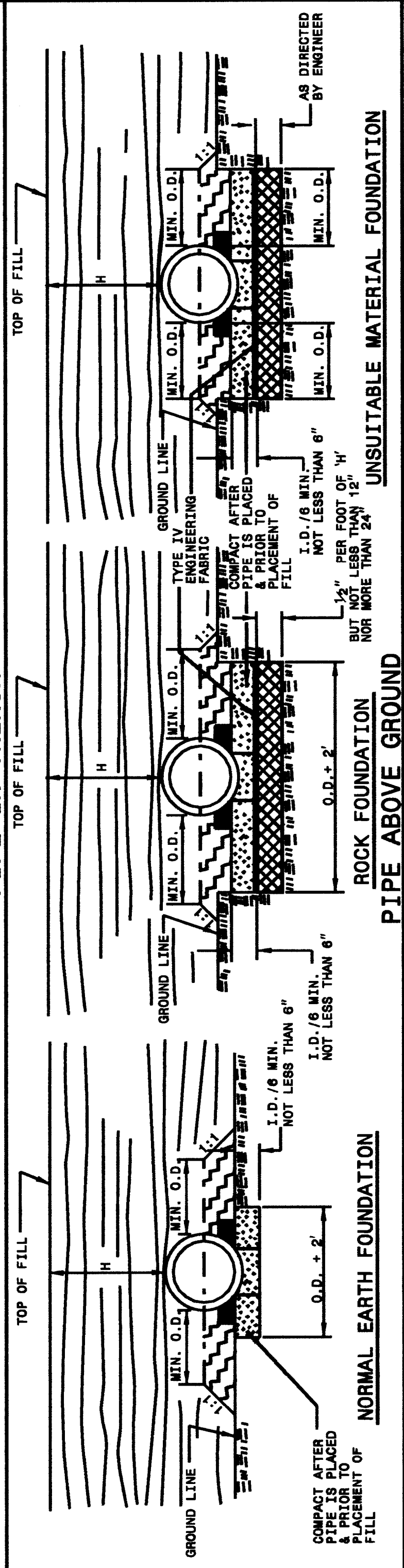
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

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



ENGLISH DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
 RIGID PIPE

ENGLISH DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
 RIGID PIPE



GENERAL NOTES:
 I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
 O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
 H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.
 TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.
 LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.
 --- SPRINGLINE OF PIPE
 SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPRINGLINE.
 APPROVED SUITABLE LOCAL MATERIAL ABOVE SPRINGLINE.
 UNDISTURBED EARTH MATERIAL
 SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH ENGINEERING FABRIC AS DIRECTED BY THE ENGINEER.

SHEET 2 OF 3
300D01

SHEET 2 OF 3
300D01

**PROJECT SERVICES UNIT
 STANDARDS AND SPECIAL DESIGN**
 Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

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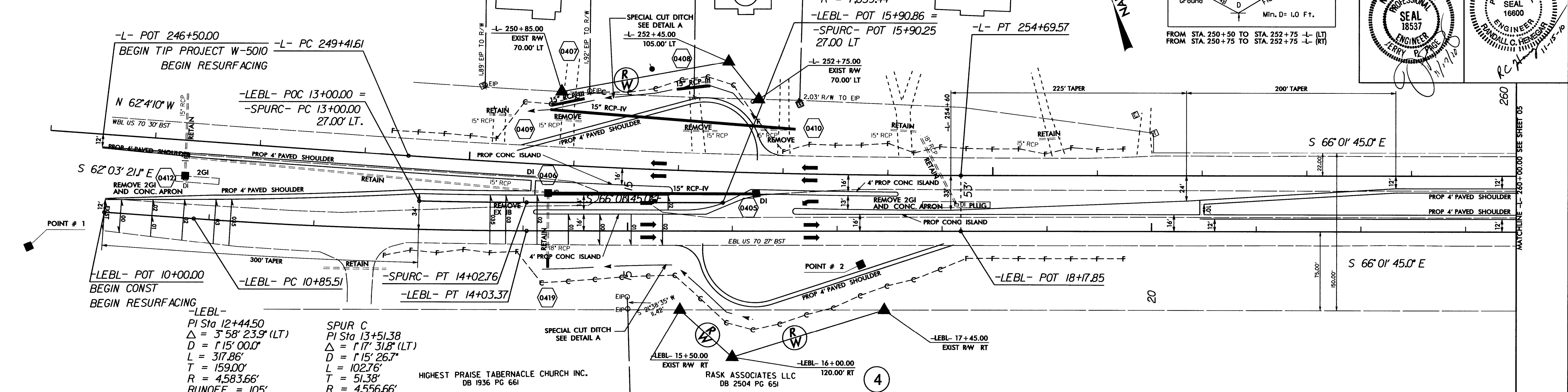
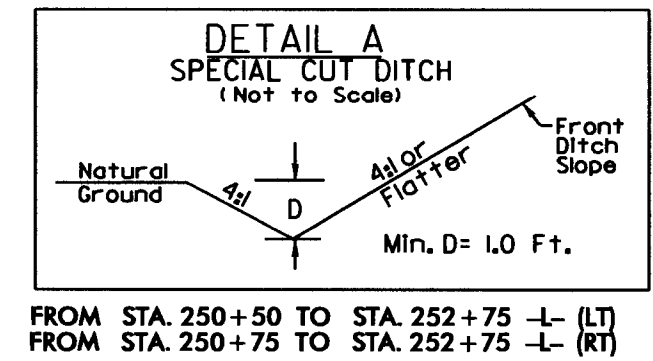
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS SUMMARY OF QUANTITIES

ITEM NUMBER	SEC#	DESCRIPTION	QUANTITY	ITEM NUMBER	SEC#	DESCRIPTION	QUANTITY	ITEM NUMBER	SEC#	DESCRIPTION	QUANTITY
0000100000-N	800	MOBILIZATION	1 LS	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLETS	4 EA	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	124 EA
0043000000-N	226	GRADING	1 LS	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS(KEYED IN)	1440 SY	6000000000-E	1605	TEMPORARY SILT FENCE	285 LF
0038000000-E	SP	SHALLOW UNDERCUT	1000 CY	2830000000-N	858	ADJUSTMENT OF MANHOLES	1 EA	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	10 TON
0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB-BING	1 ACR	2845000000-N	858	ADJUSTMENT OF METER BOXES OR VALVE BOXES	2 EA	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	20 TON
0080000000-E	SP	CLASS IV SUBGRADE STABILIZATION	1420 TON	3649000000-E	876	RIP RAP, CLASS B	10 TON	6012000000-E	1610	SEDIMENT CONTROL STONE	50 TON
0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	20 SY	3656000000-E	876	FILTER FABRIC FOR DRAINAGE	30 SY	6015000000-E	1615	TEMPORARY MULCHING	1 ACR
0196000000-E	270	FABRIC FOR SOIL STABILIZATION	3000 SY	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	820 LF	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	50 LB
0318000000-E	SP	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	110 TON	4102000000-N	904	SIGN ERECTION, TYPE E	67 EA	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	0.5 TON
0320000000-E	SP	FOUNDATION CONDITIONING FABRIC	320 SY	4108000000-N	904	SIGN ERECTION, TYPE F	11 EA	6030000000-E	1630	SILT EXCAVATION	30 CY
0366000000-E	SP	15" RC PIPE CULVERTS, CLASS III	216 LF	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	31 EA	6036000000-E	1631	MATTING FOR EROSION CONTROL	1000 SY
0372000000-E	SP	18" RC PIPE CULVERTS, CLASS III	8 LF	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	242 SF	6042000000-E	1632	1/4" HARDWARE CLOTH	175 LF
0448200000-E	SP	15" RC PIPE CULVERTS, CLASS IV	724 LF	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	288 SF	6071010000-E	SP	WATTLE	200 LF
0995000000-E	340	PIPE REMOVAL	98 LF	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	72 SF	6071020000-E	SP	POLYACRYLAMIDE (PAM)	25 LB
0996000000-N	350	PIPE CLEAN-OUT	1 EA	4415000000-N	1115	FLASHING ARROW PANELS, TYPE C	2 EA	6084000000-E	1660	SEEDING & MULCHING	3 ACR
1220000000-E	545	INCIDENTAL STONE BASE	50 TON	4420000000-N	1120	CHANGEABLE MESSAGE SIGN	2 EA	6087000000-E	1660	MOWING	3 ACR
1297000000-E	607	MILLING ASPHALT PAVEMENT, ****DEPTH (2.5")	3600 SY	4422000000-N	1120	CHANGEABLE MESSAGE SIGN (SHORTTERM)	50 DAY	6090000000-E	1661	SEED FOR REPAIR SEEDING	50 LB
1308000000-E	607	MILLING ASPHALT PAVEMENT, ****TO ***** DEPTH (0") (1.5")	800 SY	4430000000-N	1130	DRUMS	100 EA	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25 TON
1489000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0B	2550 TON	4445000000-E	1145	BARRICADES (TYPE III)	160 LF	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	50 LB
1498000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	2120 TON	4450000000-N	1150	FLAGGER	480 HR	6108000000-E	1665	FERTILIZER TOPDRESSING	2.5 TON
1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	540 TON	4480000000-N	1165	TMIA	2 EA	6114500000-N	SP	SPECIALIZED HAND MOWING	10 MHR
1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	3300 TON	4516000000-N	1180	SKINNY DRUM	45 EA	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	9 EA
1560000000-E	620	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	240 TON	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	70 EA				
1565000000-E	620	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	200 TON	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	14339 LF				
1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	160 TON	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	12 EA				
2253000000-E	840	PIPE COLLARS	1 CY	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	145 LF				
2264000000-E	840	PIPE PLUGS	1 CY	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	1237 LF				
2286000000-N	840	MASONRY DRAINAGE STRUCTURES	8 EA	4690000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 120 MILS)	2059 LF				
2308000000-E	840	MASONRY DRAINAGE STRUCTURES	1 LF	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	8724 LF				
2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	4 EA	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	2285 LF				
2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	3 EA	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	16 EA				

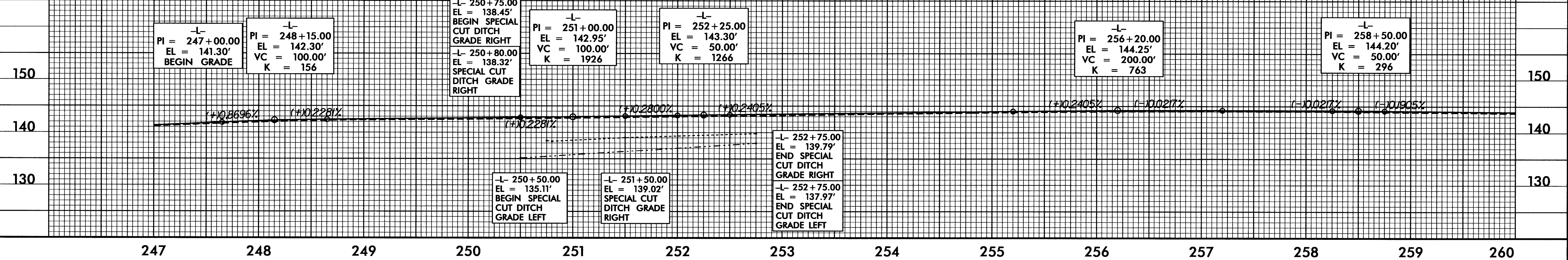
SEE SHEET 2-B FOR INTERSECTION DETAIL

PAR	OWNER	R/W
1	CHARLES A SPEARS & WIFE	81 SF
2	H R TURPIN	1718 SF
3	ELBERT MILLARD & WIFE	1540 SF
4	RASK ASSOCIATES LLC	4388 SF

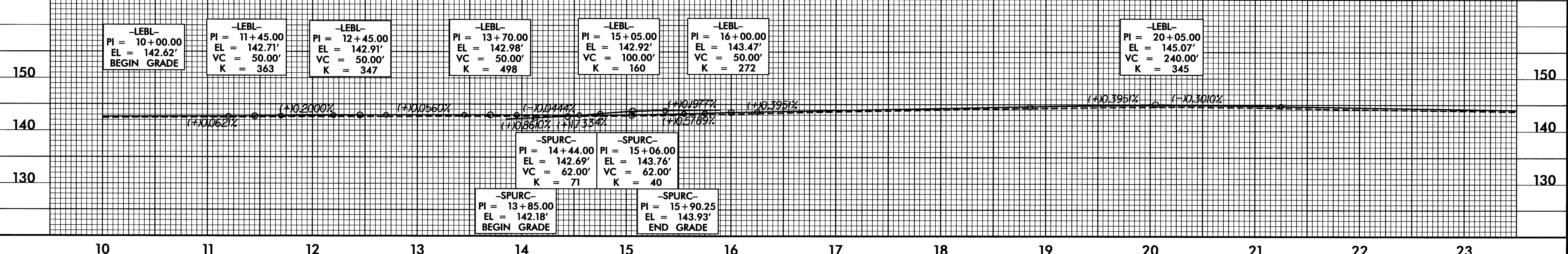
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RW SHEET NO. 04	
ROADWAY DESIGN	



LINE -L-



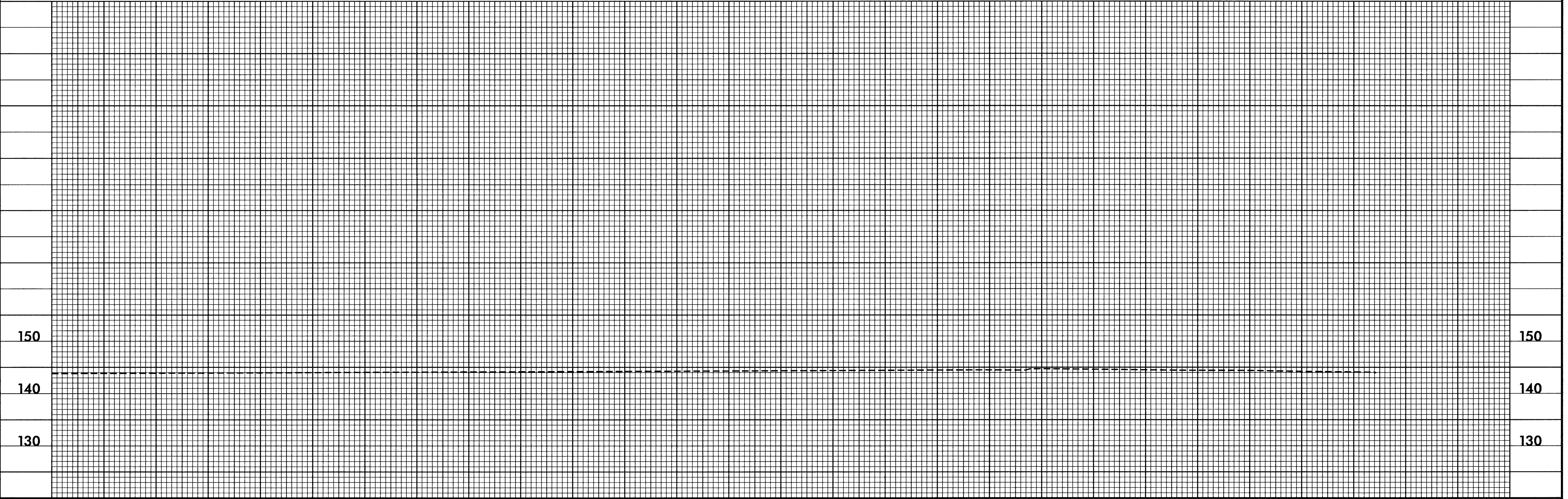
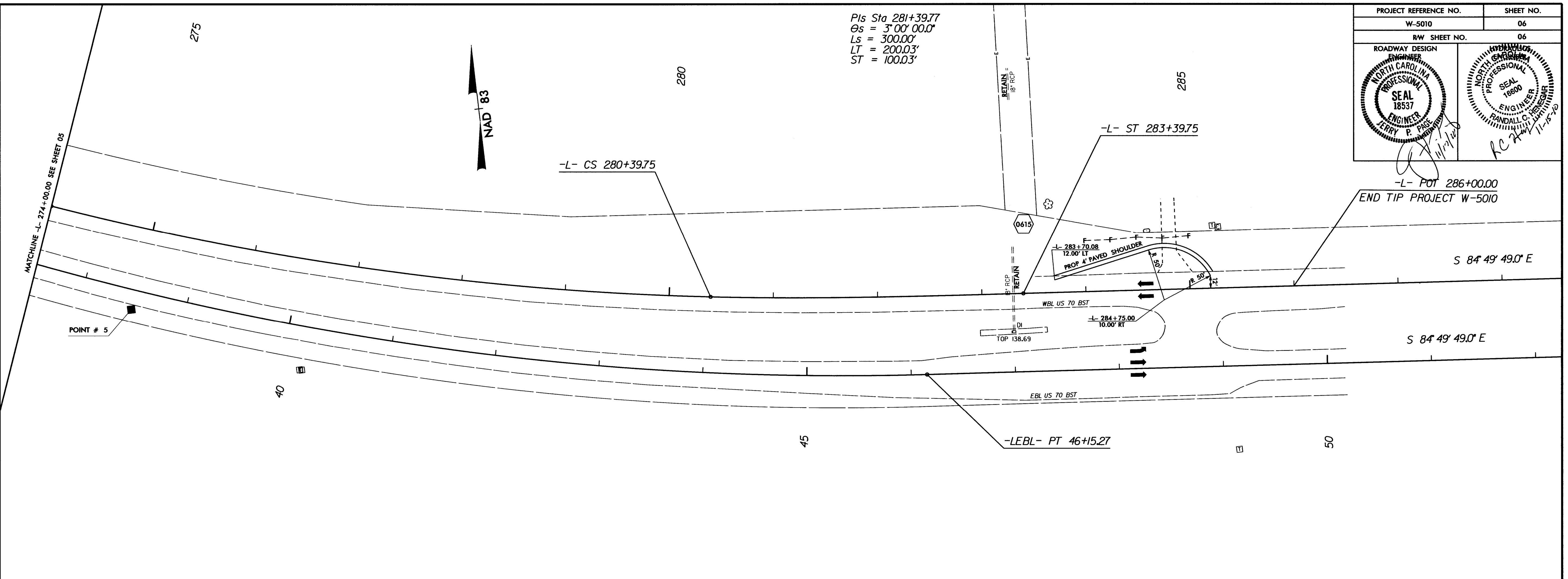
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W-5010	06
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ROADWAY DESIGN ENGINEER	PROFESSIONAL SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER	SEAL 18537
JERRY P. PAS...	RANDALL C. ...
	11-12-10

$Pis\ Sta\ 281+39.77$
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 $L_s = 300.00'$
 $LT = 200.03'$
 $ST = 100.03'$



REVISIONS

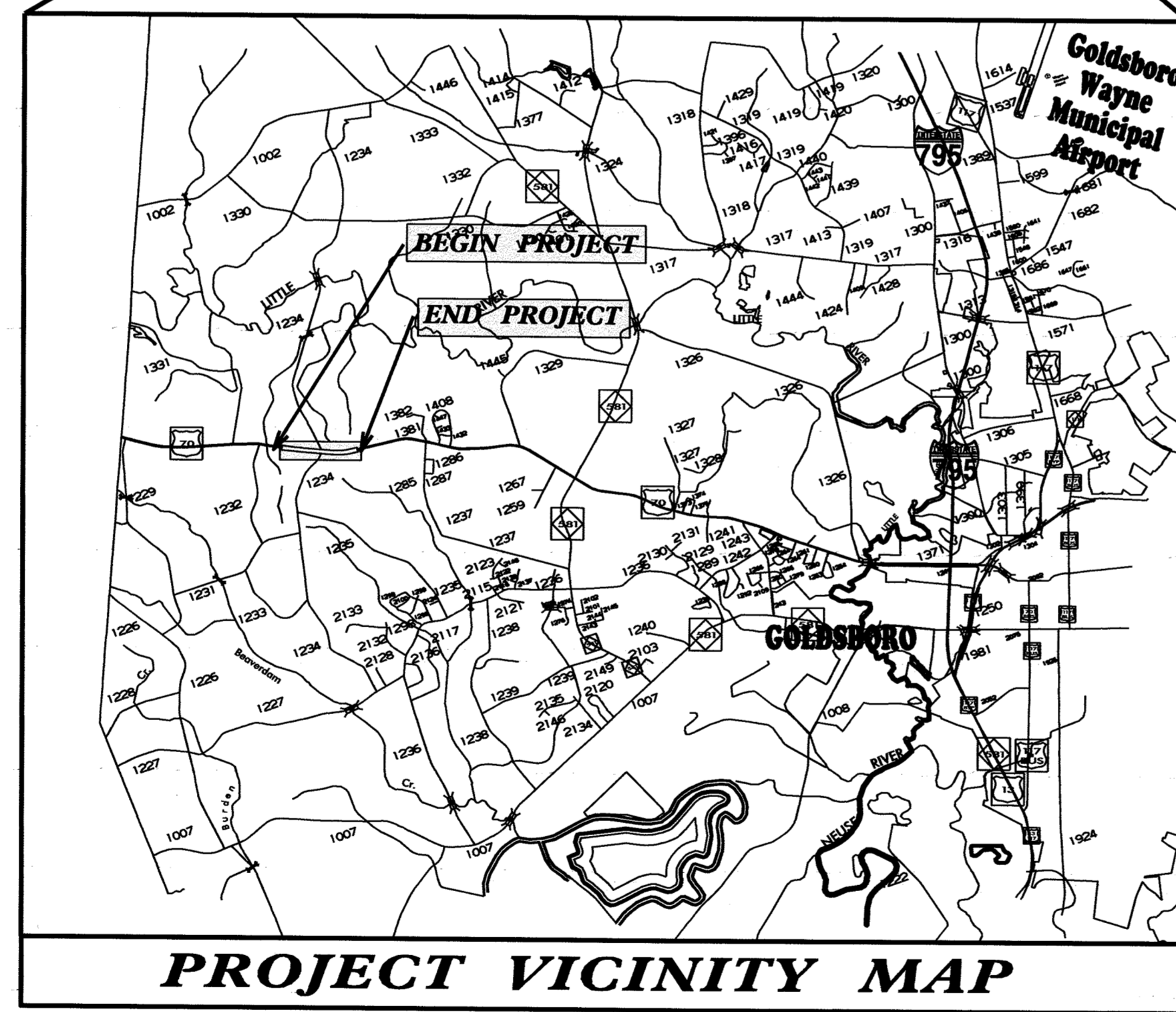
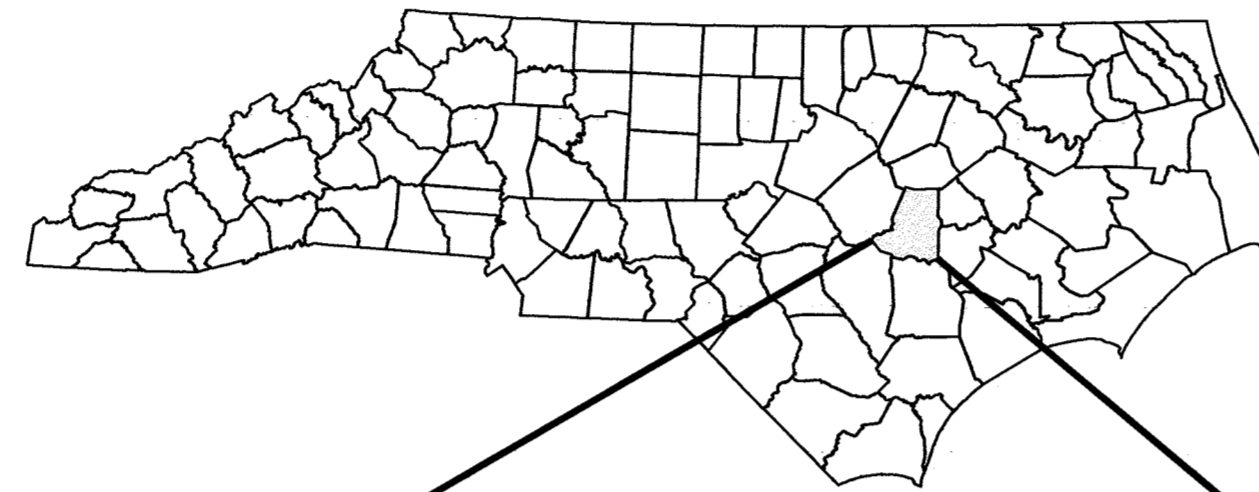
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HP4500

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAYNE COUNTY



INDEX OF SHEETS

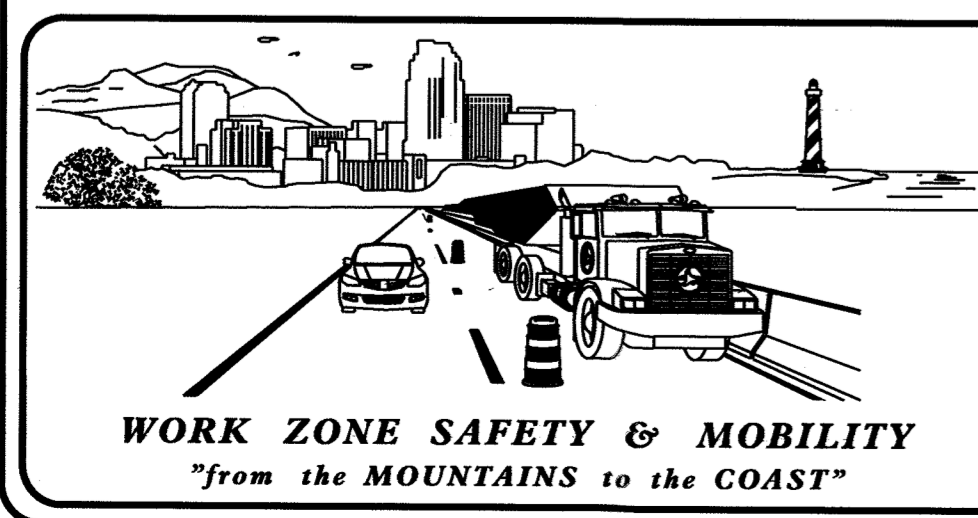
SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (WORK ZONE SAFETY MANAGEMENT STRATEGIES, PROJECT NOTES)
TMP-2A	ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)
TMP-2B	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS
TMP-3	PHASING
TMP-4	STEP 2. DETAILS
TMP-5	STEPS 3 THROUGH 5. DETAILS

SHEET NO.
TMP-1

W-5010

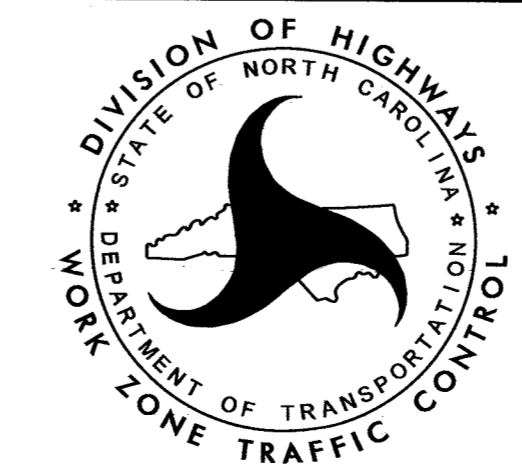
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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1580 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1580
1020 BIRCH RIDGE DRIVE, RALEIGH, NC 27610 (DELIVERY)
PHONE: (919) 250-4094 FAX: (919) 250-4098

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
JOSEPH ISHAK, P.E. TRAFFIC CONTROL PROJECT ENGINEER
BENJAMIN P. SCHOENBAUER, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
ALLA LYUDMIRSKAYA TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: *Bm Schoenbauer*
DATE: February 6, 2012

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (TEMPORARY & PERMANENT)

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.



TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- FLASHING ARROW PANEL (TYPE C)
- FLAGGER
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKING

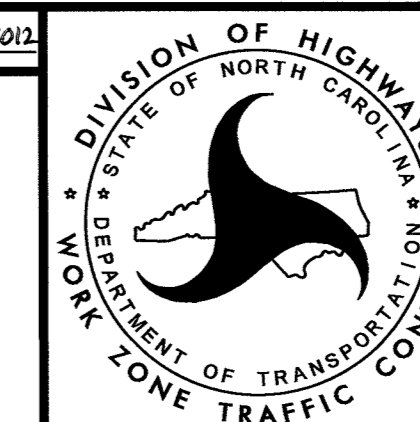
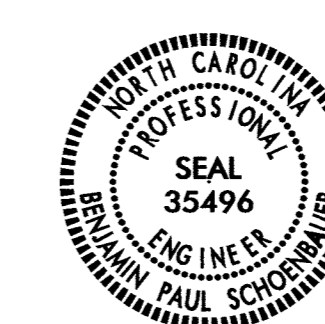
- PA WHITE EDGE LINE
- PB YELLOW EDGE LINE
- PC 10 FT WHITE SKIP
- PD 2 FT WHITE MINI-SKIP LINE
- PE WHITE SOLID LANE LINE
- QA LEFT TURN ARROW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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APPROVED: *Ben Schuman* DATE: 2-6-2012



**ROADWAY STANDARD
DRAWINGS & LEGEND**

MANAGEMENT STRATEGIES

- THE MAJORITY OF US 70 MEDIAN CONSTRUCTION WILL BE PERFORMED BEHIND A CONTINUOUS LANE CLOSURE TO EXPEDITE CONSTRUCTION.
- SEASONAL LANE CLOSURE TIME RESTRICTIONS ARE INCLUDED TO LESSEN THE IMPACT TO TRAFFIC TRAVELING TO THE COAST ON WEEKENDS DURING WARM-WEATHER MONTHS.
- SR 1234 (CAPPS BRIDGE RD./EBENEZER CHURCH RD.) TRAFFIC IS PLACED IN THE FINAL RIGHT IN/RIGHT OUT TRAFFIC PATTERN AT THE BEGINNING OF CONSTRUCTION.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:30 A.M. TUESDAY TO 6:30 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:30 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:30 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

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.

- H) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON US 70.

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

PAVEMENT EDGE DROP OFF REQUIREMENTS

- J) 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.

- K) 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) 250 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- M) 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.
- 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) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- P) 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 WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- Q) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- R) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

- S) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLAN.
 - T) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON THE INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME | MARKING | MARKERS |
|-----------|---------|---------|
| US 70 | PAINT | NONE |
- U) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
 - V) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
 - W) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS AND/OR SKINNY DRUMS TO DELINEATE PROPOSED MONOLITHIC ISLANDS ON SR 1234 (EBENEZER RD./CAPPS BRIDGE RD.) AFTER REMOVAL AND BEFORE INSTALLATION.

MISCELLANEOUS

- X) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

PROJECT 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 OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

- A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOW:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 70	MONDAY TO FRIDAY FROM 6:30 A.M. TO 8:30 A.M. AND MONDAY TO FRIDAY FROM 4:30 P.M. TO 6:30 P.M.
- B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

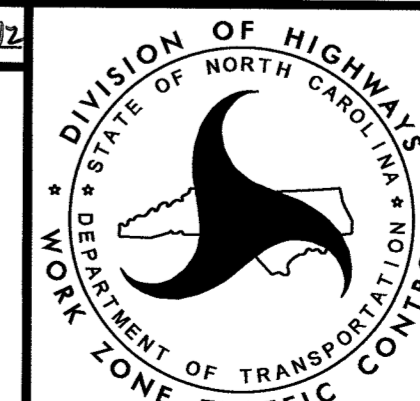
ROAD NAME
US 70

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:30 A.M. DECEMBER 31st TO 6:30 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:30 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:30 A.M. THURSDAY AND 6:30 P.M. TUESDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:30 A.M. FRIDAY TO 6:30 P.M. WEDNESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:30 A.M. THE FRIDAY BEFORE THE WEEK OF INDEPENDENCE DAY AND 6:30 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:30 A.M. FRIDAY AND 6:30 P.M. WEDNESDAY.

06-FEB-2012 09:32 \\DOT\DFS\00701\GROUPS-WZ\TCCC\TMU\WZTC\Design\Group2\special\projects\UP0C Projects\W-5010\April2010\Traffic Control\TCP\W-5010_Tc_TMP-1B_rev.dgn

APPROVED: *Paul Scherbaum* DATE: 2-6-2012

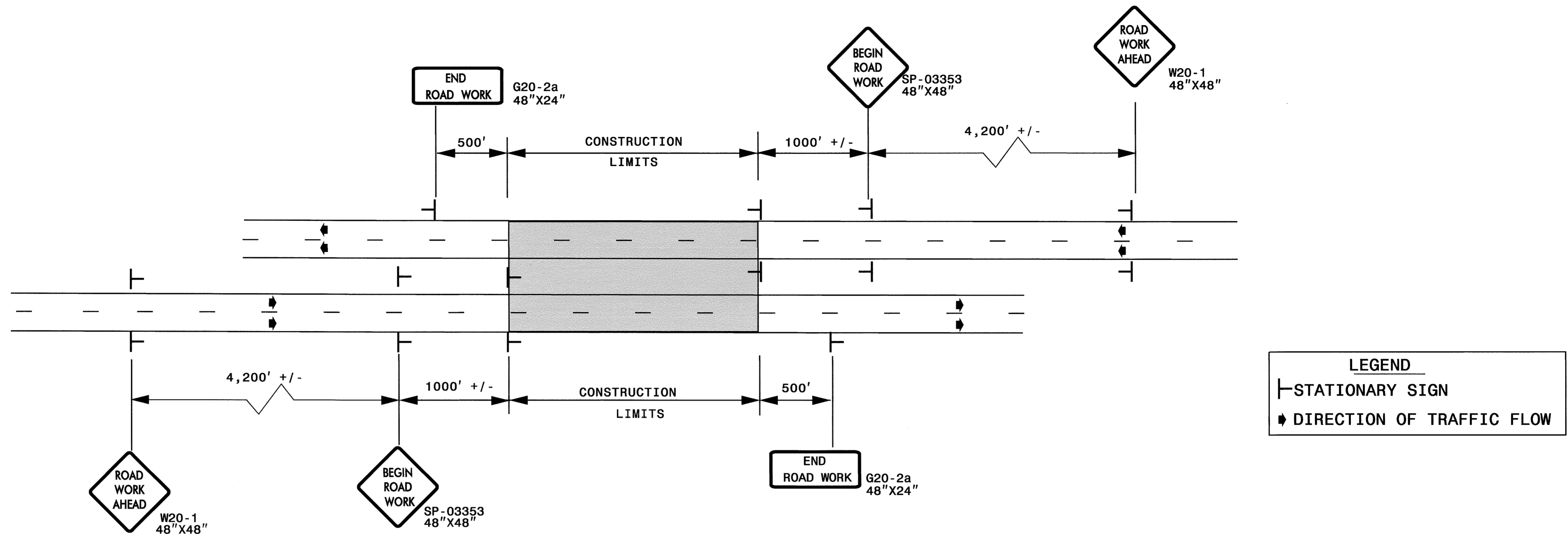


TRANSPORTATION
OPERATIONS PLAN

ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

PROJ. REFERENCE NO.	SHEET NO.
W-5010	TMP-2A

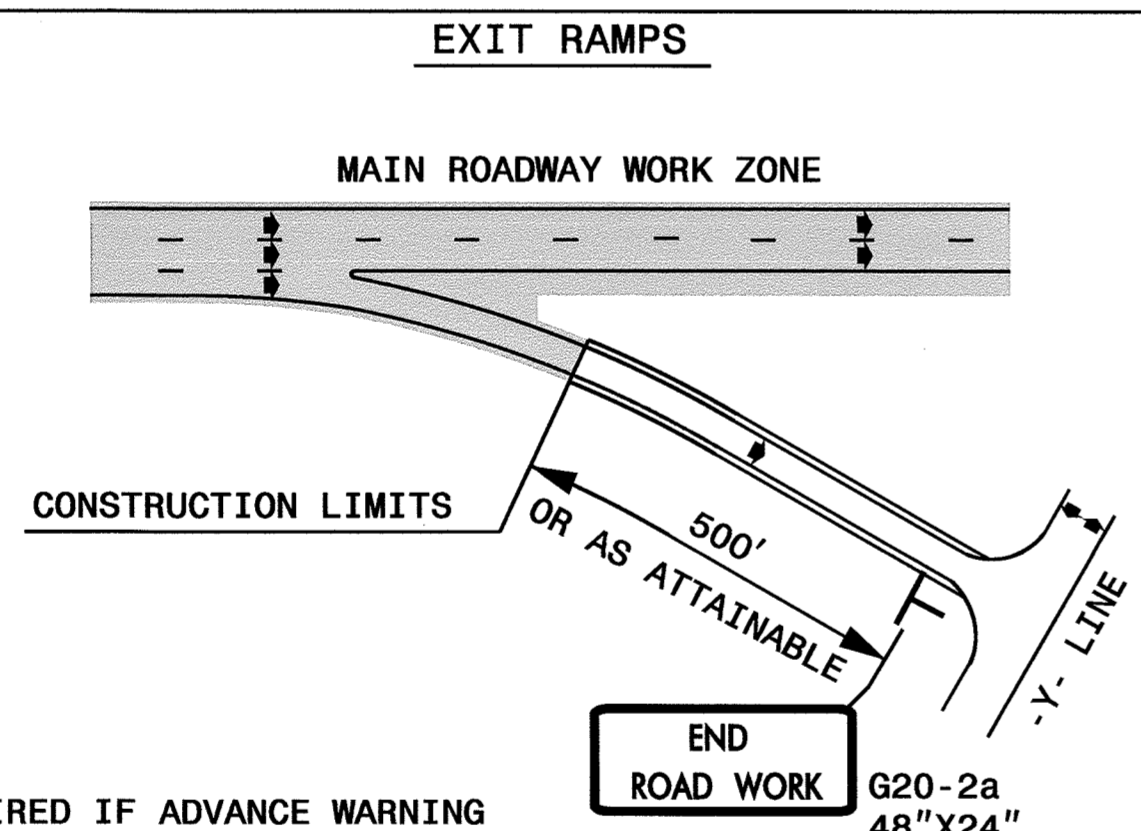
DETAIL A



LEGEND	
	STATIONARY SIGN
▶	DIRECTION OF TRAFFIC FLOW

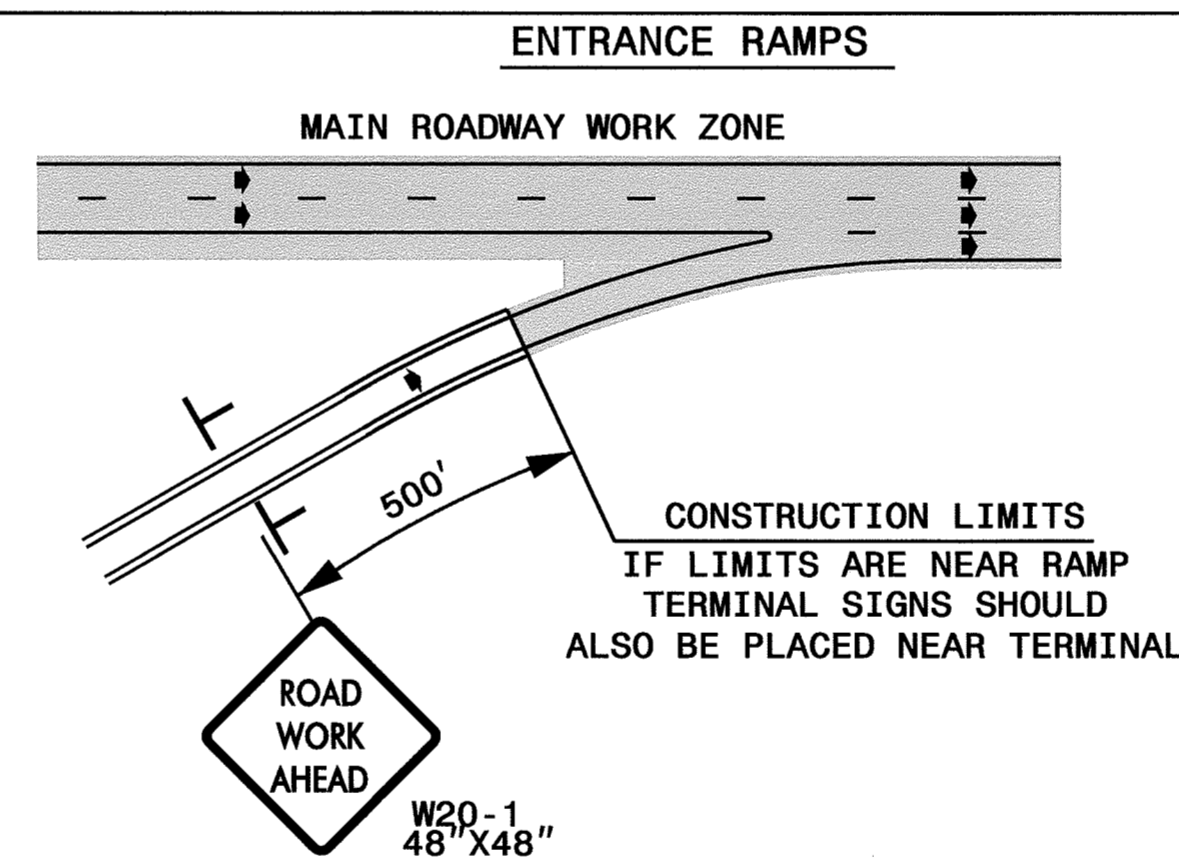
* USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

DETAIL B



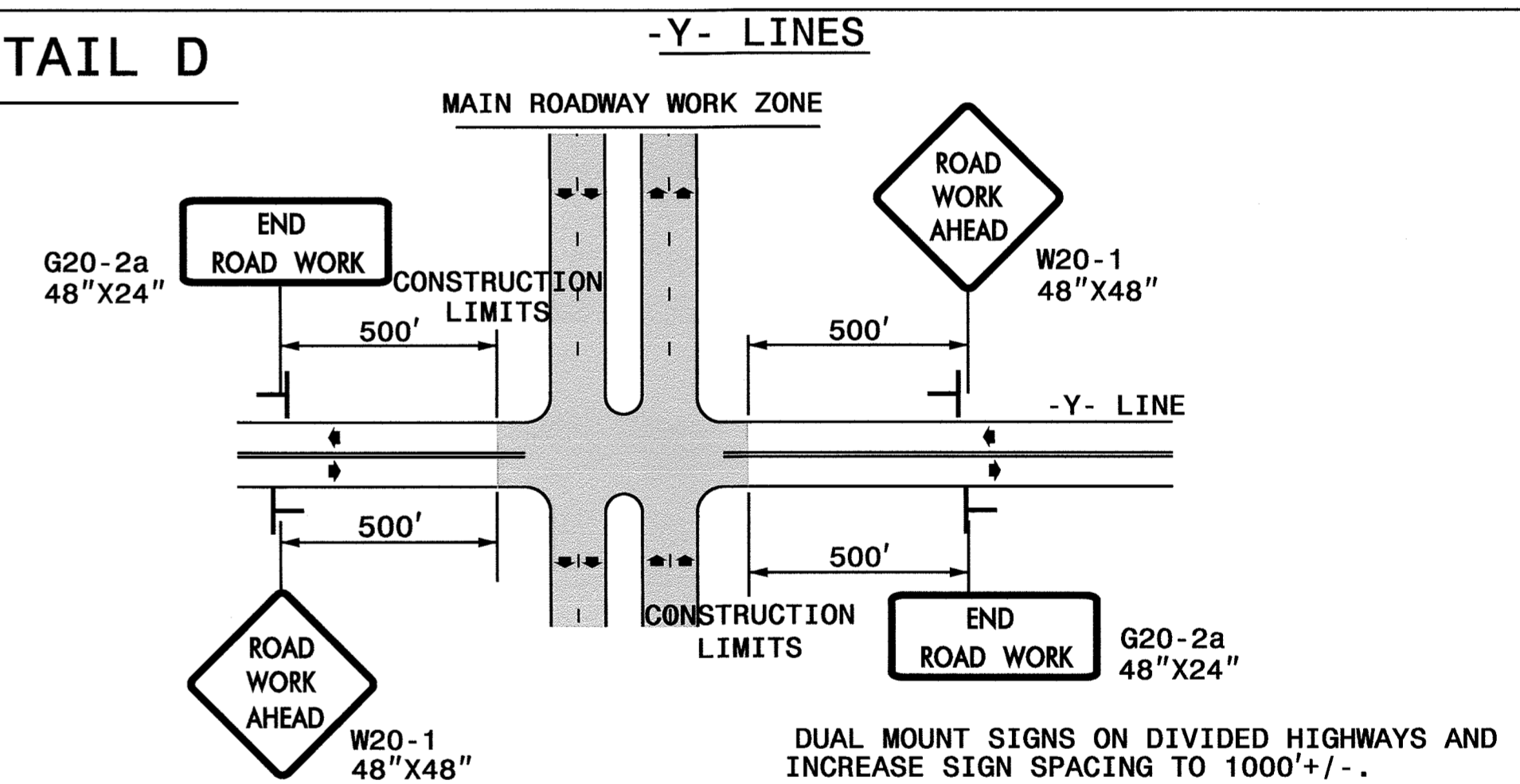
NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



CONSTRUCTION LIMITS IF LIMITS ARE NEAR RAMP TERMINAL SIGNS SHOULD ALSO BE PLACED NEAR TERMINAL

DETAIL D

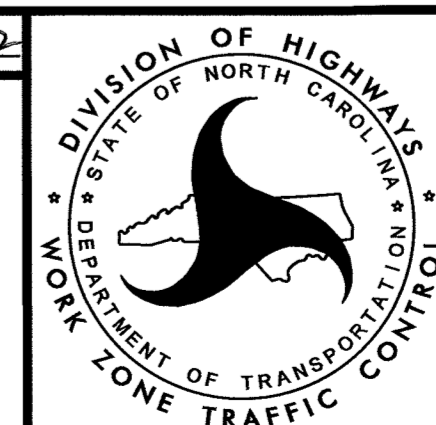


DUAL MOUNT SIGNS ON DIVIDED HIGHWAYS AND INCREASE SIGN SPACING TO 1000'+/-.

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B); MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

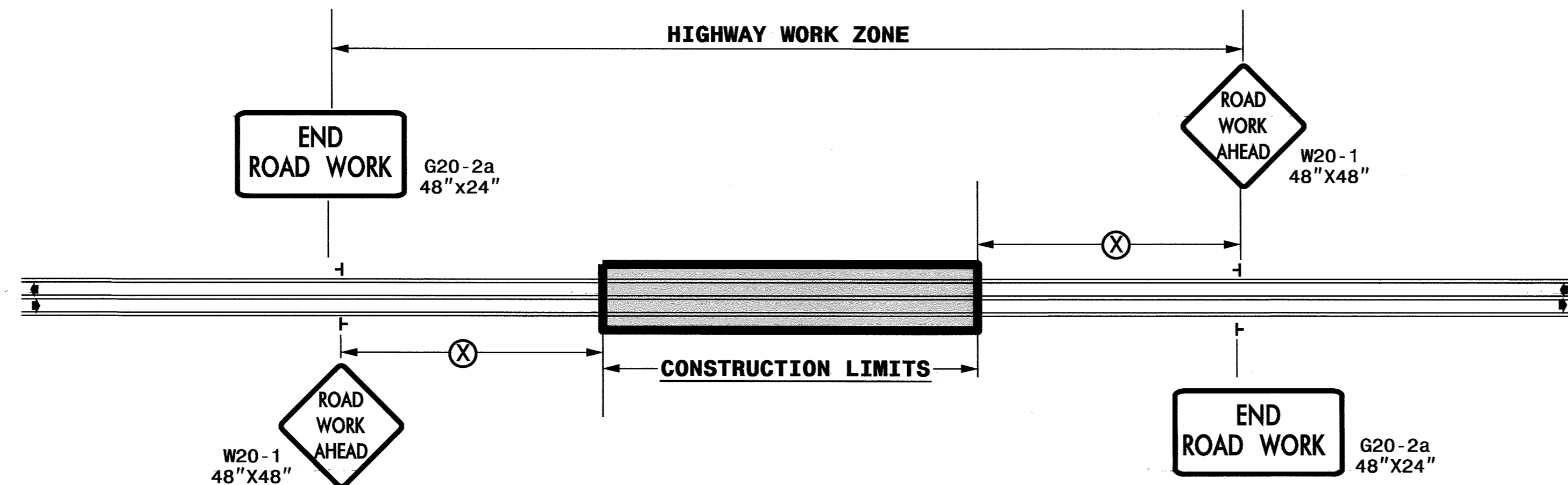
APPROVED: *Ben Schreiber* DATE: 2-6-2012



ADVANCED WORK ZONE WARNING
SIGNS FOR FREEWAYS (4 LANES
OR GREATER)

06-FEB-2012 09:33 \\DDT\DESIGN\GROUPS-WZTCC\TLM\WZTC\DesignGroup2\special\projects\W-5010\Apr112010\Tr-offic Control\TCP\W-5010-TMP-2A-Freeways-4lanes-or-greater.dgn AT TE244741

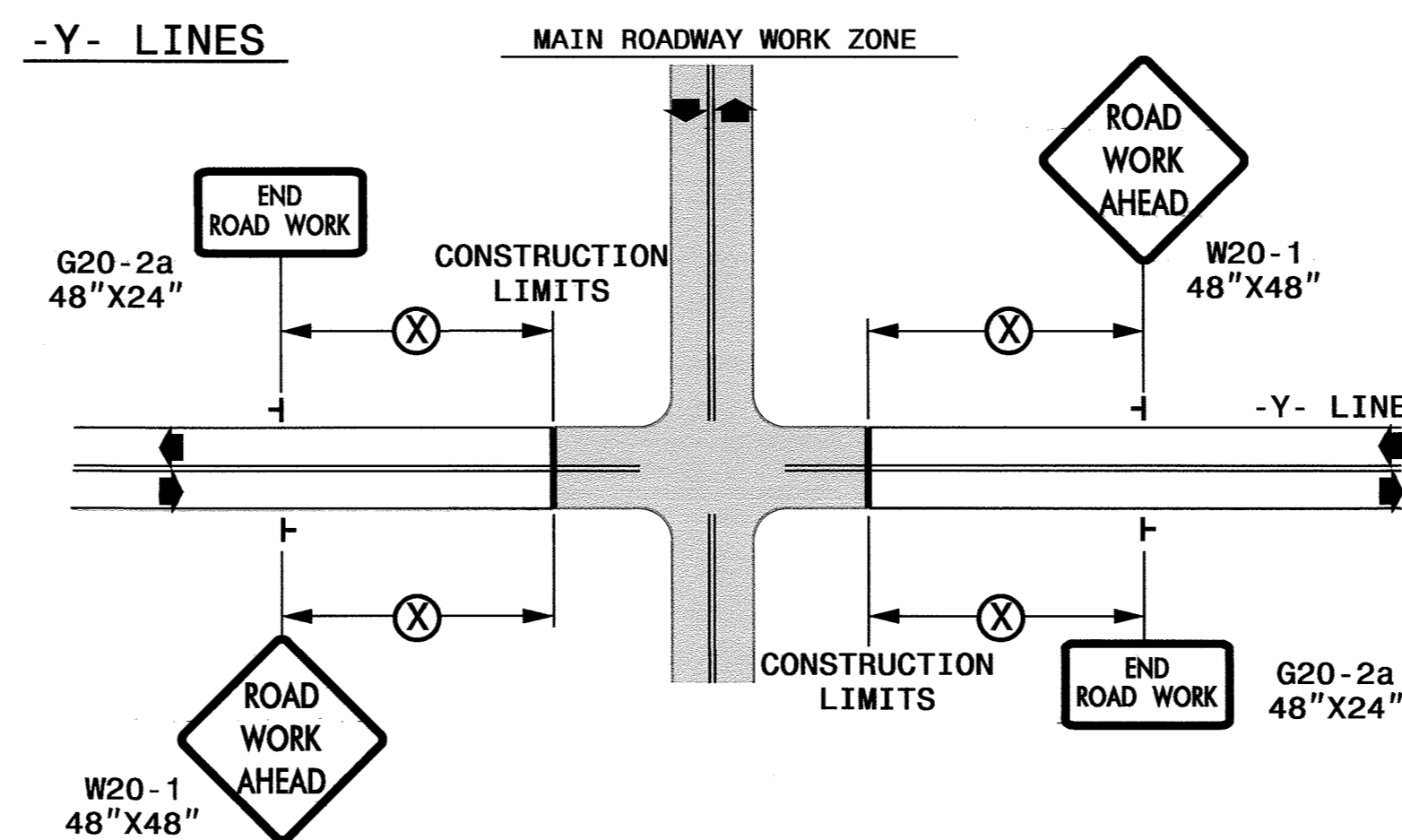
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

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

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



DETAIL DRAWING FOR
TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

GENERAL NOTES

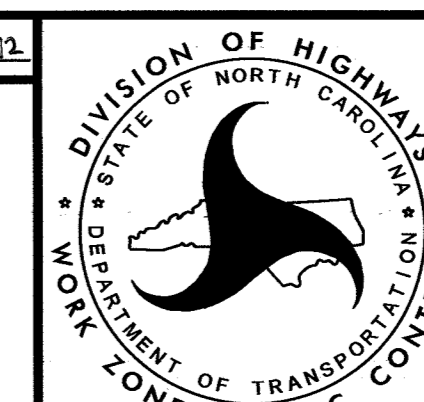
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

- ┆ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: *Ben Schenck* DATE: 2-6-2012



DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS

06-FEB-2012 10:22
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mgarrrett AT 1E244735

PHASING

NOTE:
UNLESS OTHERWISE NOTED IN THE PHASING, RETURN TRAFFIC TO EXISTING PATTERN AT THE END OF A WORK DAY.

STEP 1:
INSTALL ADVANCED WORK ZONE WARNING SIGNS (SEE SHEETS TMP-2A AND TMP-2B).

STEP 2:

- AWAY FROM TRAFFIC AND USING LANE CLOSURES (RSD 1101.02, SHEET 3 OF 9) AS NECESSARY, BEGIN PROPOSED DRAINAGE (SEE ROADWAY AND HYDRO PLANS).
- USING LANE CLOSURES (RSD 1101.02, SHEET 3 OF 9), PERFORM THE FOLLOWING:
 - 1) - BEGIN CONSTRUCTION OF PROPOSED ROADWAY UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AT THE FOLLOWING LOCATIONS:
(SEE SHEET TMP-4, DETAIL 1).
*WB FROM -L- STA.250+45+/- TO -L- STA.253+00+/- AND
*EB FROM -LEBL- STA.15+45+/- TO -LEBL- STA.18+10+/-
 - CONSTRUCT PROPOSED ROADWAY, TIE IN TO EXISTING AND PLACE FINAL PAVEMENT MARKING FROM -L- STA.283+69+/- TO L- STA.285+23+/-
(SEE SHEET TMP-4, DETAIL 3).
 - 2) WEDGE UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA.246+50+/- TO -L- STA.273+15+/-.
AT THE END OF WORK DAY PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS.
- USING FLAGGERS (RSD 1101.02, SHEET 1 OF 9) AND LANE CLOSURES (RSD 1101.02, SHEET 3 OF 9), AS NEEDED, REMOVE EXISTING ISLANDS AND CONSTRUCT PROPOSED CONCRETE ISLANDS AT SR 1234 (SEE ROADWAY PLANS FOR CONCRETE ISLANDS LOCATION, SHEET TMP-4, DETAIL 2).
- USING SHEET TMP-5, INSTALL AND COVER PROPOSED SIGNS FOR RIGHT TURN ONLY (SEE SIGNING PLANS) AND CMSs.

STEP 3:
ACTIVATE CMS MESSAGES FOR PUBLIC INFORMATION SEVEN (7) DAYS PRIOR MEDIAN CLOSURE AT US 70/SR1234.

STEP 4:
MODIFY CMS MESSAGES, UNCOVER PROPOSED SIGNS FOR RIGHT TURN ONLY, CLOSE MEDIAN CROSSING AT SR 1234 (CAPPS BRIDGE RD./EBENEZER CHURCH RD.), AND PLACE Y-LINE (SR 1234) TRAFFIC IN RIGHT TURN ONLY TRAFFIC PATTERN.

ICT
EIGHTEEN (18)
CONSECUTIVE
CALENDAR DAYS

COMPLETE THE WORK REQUIRED IN STEP 5 IN EIGHTEEN (18) CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

STEP 5:

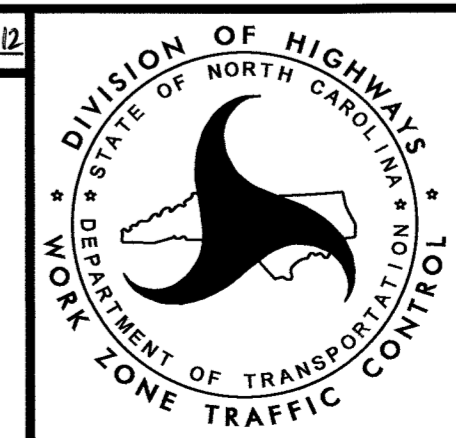
- 1) USING CONTINUOUS LEFT LANE CLOSURES (RSD 1101.02, SHEET 3 OF 9) ON US 70 IN BOTH DIRECTIONS, COMPLETE CONSTRUCTION OF PROPOSED DRAINAGE, CONSTRUCT PROPOSED MEDIAN AND PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS FROM -L- STA.246+50+/- TO -L- STA.273+15+/-
- 2) PLACE TRAFFIC ON -L- (US 70) IN FINAL PATTERN WITH TEMPORARY PAVEMENT MARKING (SEE FINAL PAVEMENT MARKING PLANS). REMOVE CMSs.

STEP 6:
USING LANE CLOSURES (RSD 1101.02, SHEET 3 OF 9), COMPLETE CONSTRUCTION OF PROPOSED ROADWAY AT THE FOLLOWING LOCATIONS:
*WB FROM -L- STA.250+45+/- TO -L- STA.253+00+/- AND
*EB FROM -LEBL- STA.15+45+/- TO -LEBL- STA.18+10+/-.

STEP 7:
USING LANE CLOSURES (RSD 1101.02, SHEET 3 OF 9), RESURFACE -L- AND PLACE FINAL PAVEMENT MARKING AND MARKERS FROM -L- STA.246+50+/- TO -L- STA.273+15+/-.

STEP 8:
REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

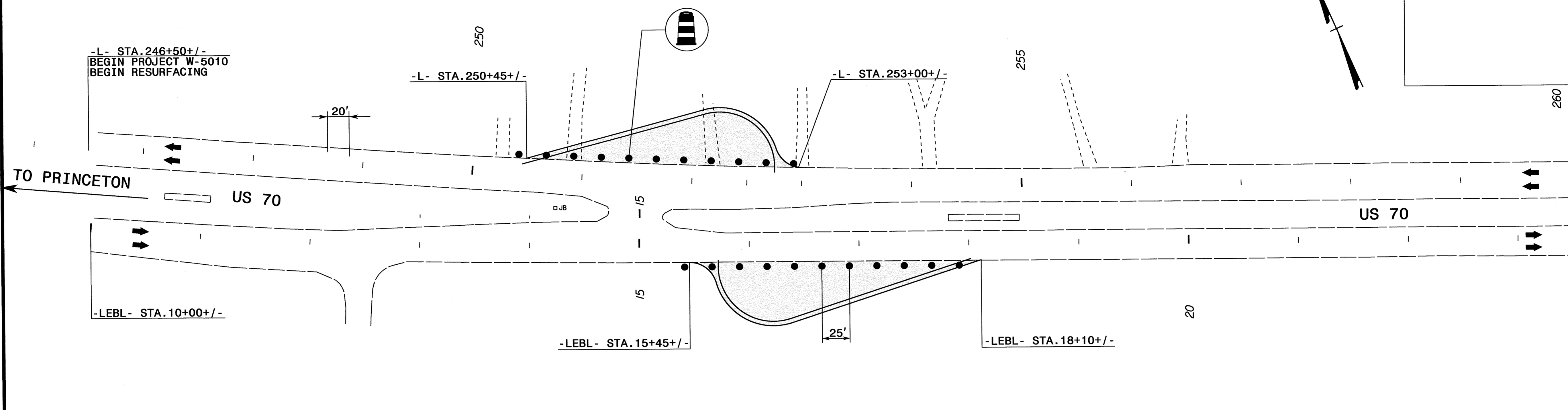
APPROVED: *Ben Schwanen* DATE: 2-6-2012



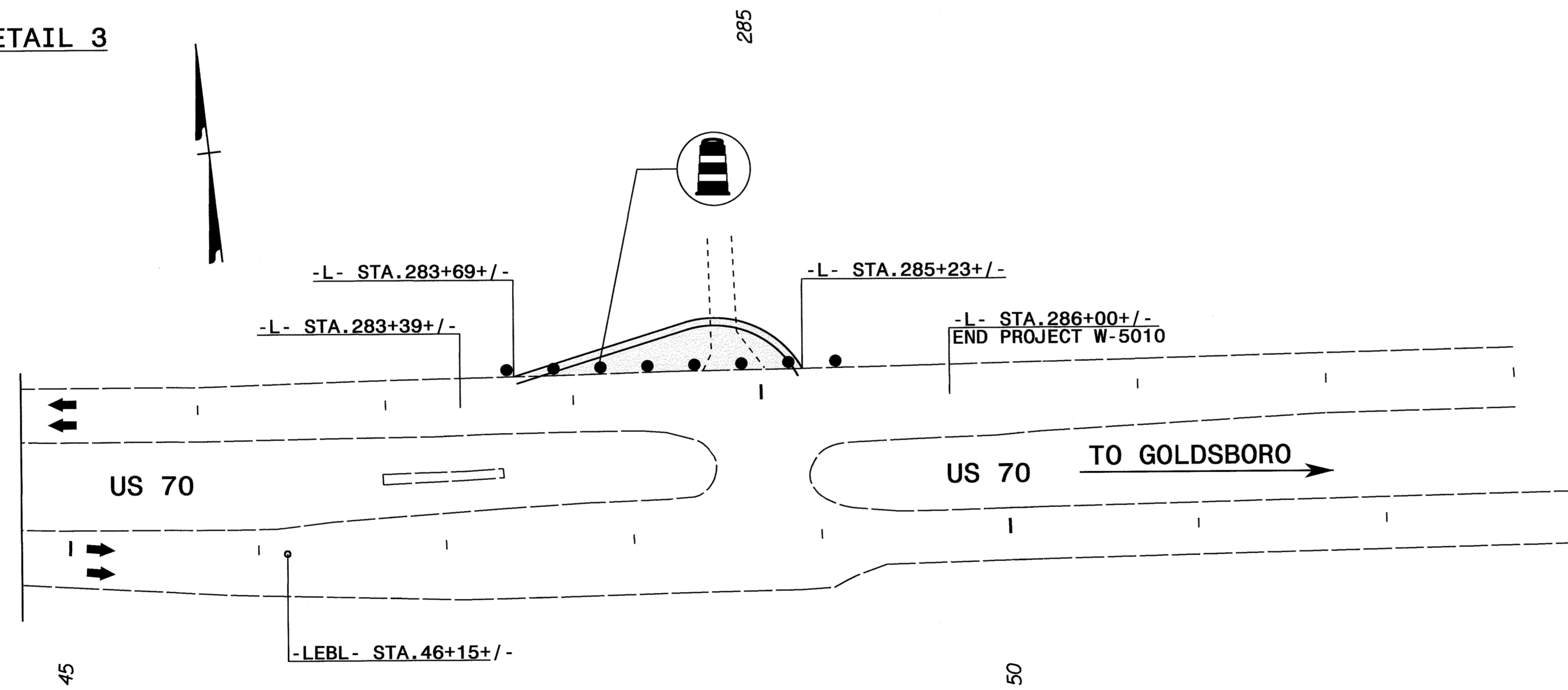
PHASING

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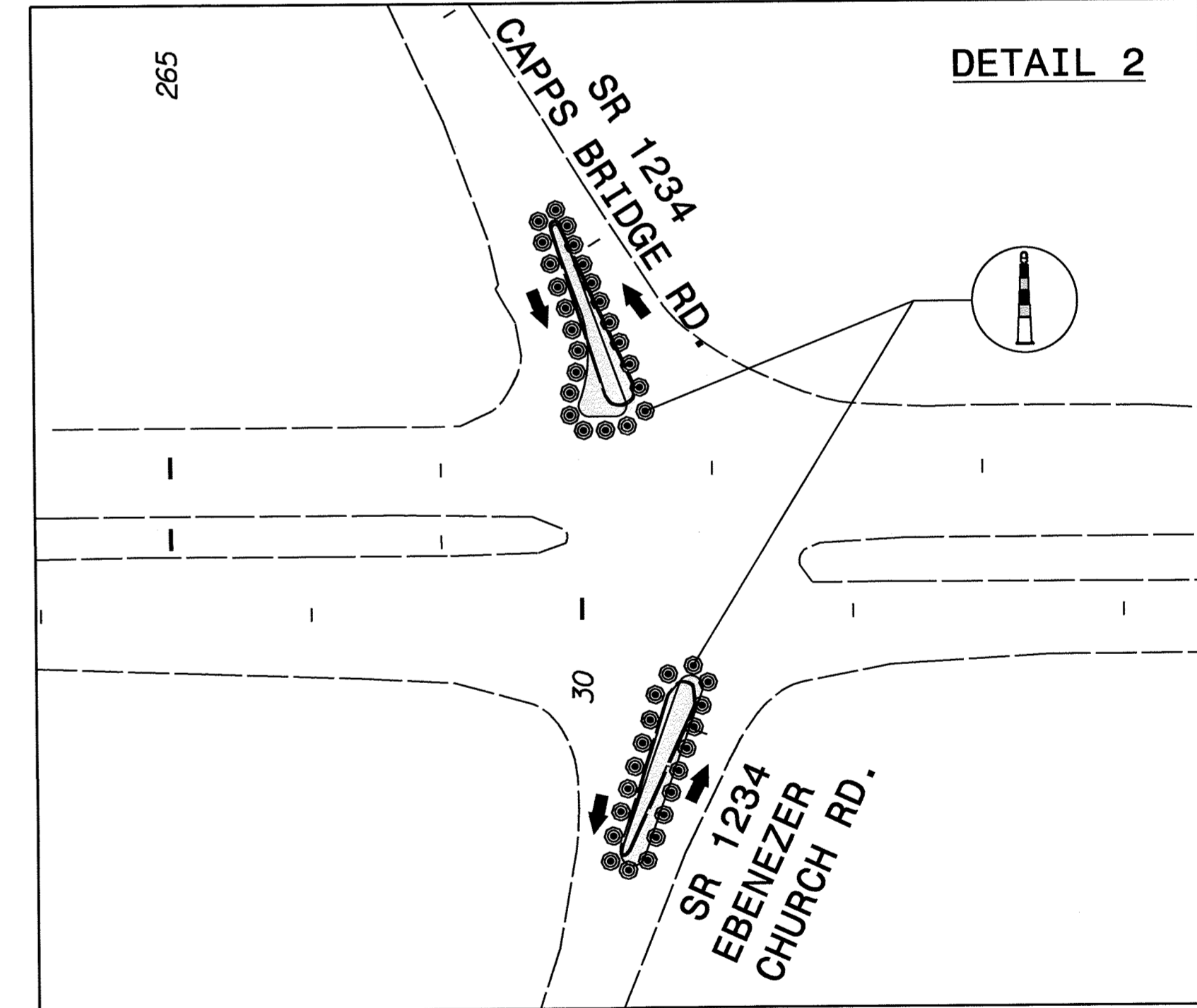
DETAIL 1



DETAIL 3

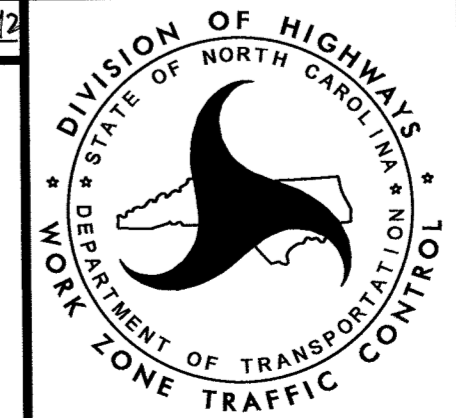


DETAIL 2



NOTES:
 1. REFER TO RSD 1101.02, SHEET 3 OF 9, FOR GENERAL NOTES AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH A TEMPORARY RIGHT LANE CLOSURE ON US 70 IN BOTH DIRECTIONS.
 2. AT THE END OF WORK DAY RETURN TRAFFIC TO EXISTING PATTERN.

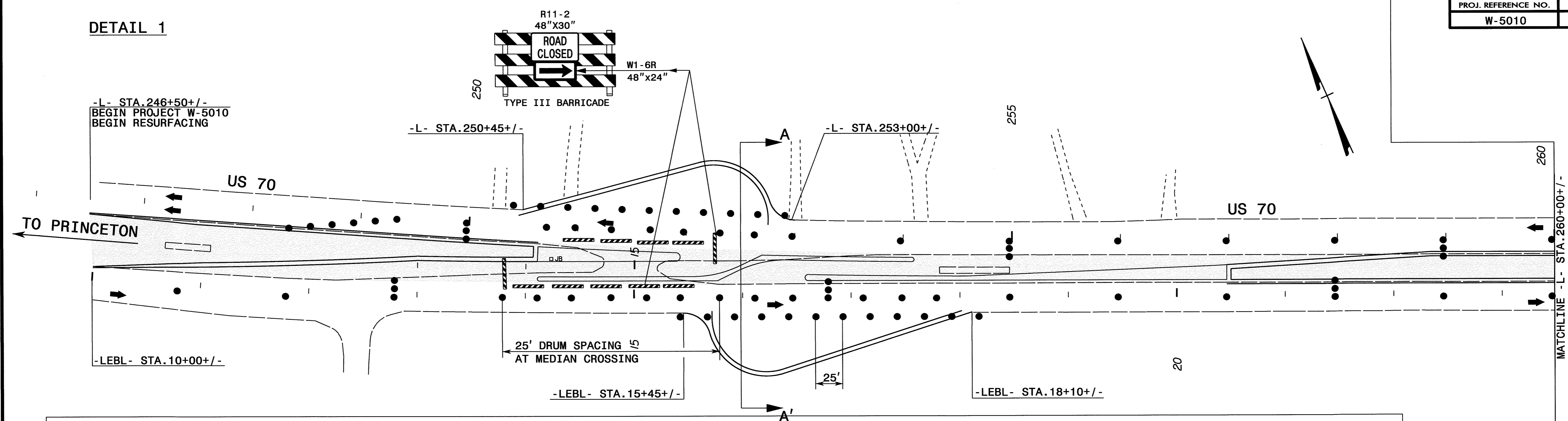
APPROVED: *Ben Schuchman* DATE: 2-6-2012



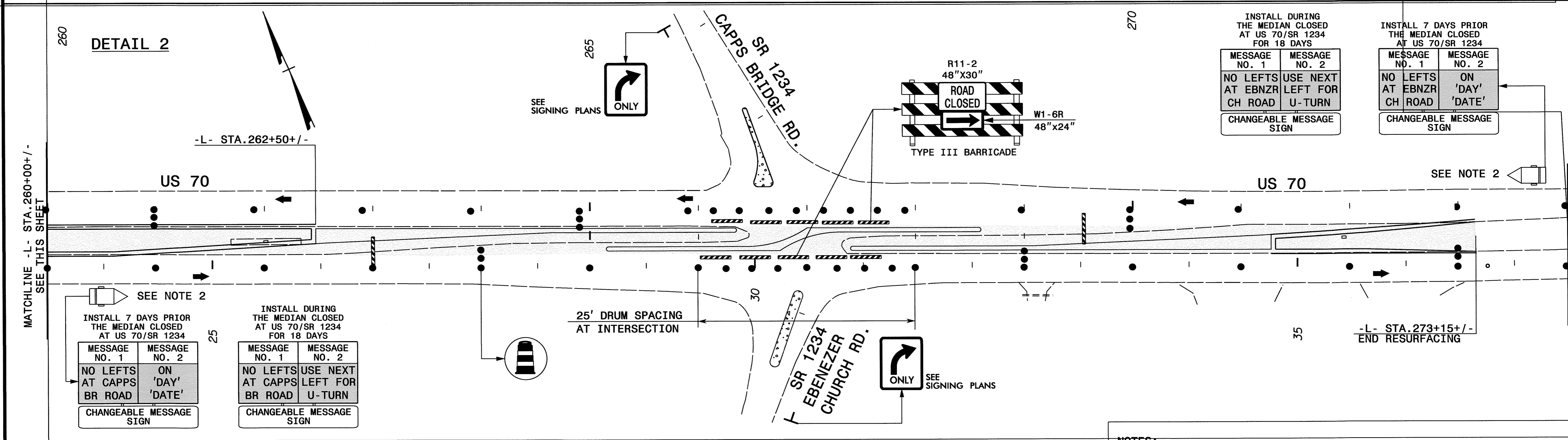
**STEP 2.
 DETAILS**

06-FEB-2012 09:37
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 aljudml AT TE24741

DETAIL 1



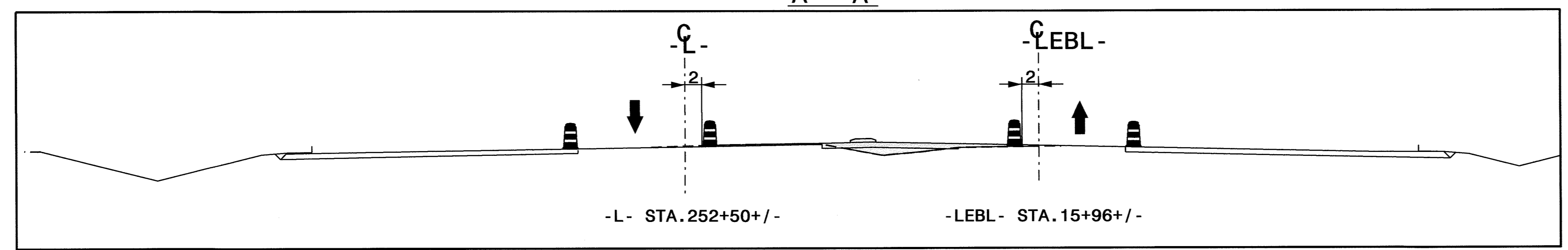
DETAIL 2



INSTALL DURING THE MEDIAN CLOSED AT US 70/SR 1234 FOR 18 DAYS		INSTALL 7 DAYS PRIOR THE MEDIAN CLOSED AT US 70/SR 1234	
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
NO LEFTS AT EBZR CH ROAD	USE NEXT LEFT FOR U-TURN	NO LEFTS AT EBZR CH ROAD	ON 'DAY' 'DATE'
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	

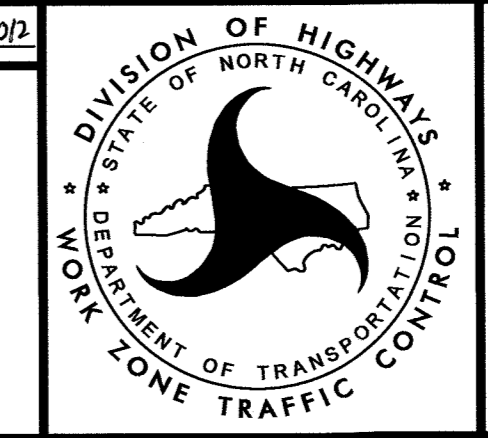
INSTALL 7 DAYS PRIOR THE MEDIAN CLOSED AT US 70/SR 1234		INSTALL DURING THE MEDIAN CLOSED AT US 70/SR 1234 FOR 18 DAYS	
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
NO LEFTS AT CAPPS BR ROAD	ON 'DAY' 'DATE'	NO LEFTS AT CAPPS BR ROAD	USE NEXT LEFT FOR U-TURN
CHANGEABLE MESSAGE SIGN		CHANGEABLE MESSAGE SIGN	

A - A'



- NOTES:**
- REFER TO RSD 1101.02, SHEET 3 OF 9, FOR GENERAL NOTES AND TRAFFIC CONTROL DEVICES ASSOCIATED WITH A TEMPORARY LEFT LANE CLOSURE ON US 70 IN BOTH DIRECTIONS.
 - COORDINATE WITH THE ENGINEER FOR LOCATION OF CMSs.
 - REFER TO SIGNING PLANS FOR SIGN TYPE AND LOCATIONS.

APPROVED: *[Signature]* DATE: 2-6-2012




STEPS 3 THROUGH 5. DETAILS

06-FEB-2012 09:38 C:\GROUPS-WZTCCC\TMUN\WZTC\Design\Group2\Special\Projects\W-5010\April2010\Traffic Control\TCP\W-5010.TC_TMP-5_Steps 3 thru 5.dgn

T.I.P.: W-5010

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TIP NO. W-5010	SHEET NO. PMP-1
APPROVED: <i>Ayman Alqudwah</i>	
DATE: 10-5-10	
SEAL	



PAVEMENT MARKING PLANS
WAYNE COUNTY

LOCATION: US 70 AT SR 1234 (EBENEZER CHURCH ROAD-CAPPS
BRIDGE ROAD) AND WEST OF SR 1234

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 JULY 2006 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 - 2 LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOL AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - TEMPORARY AND PERMANENT

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.

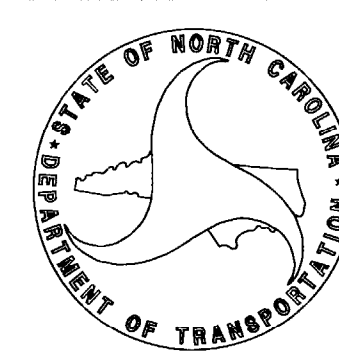
- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL	THERMOPLASTIC	RAISED

- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
D) STOPBAR LOCATIONS AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
E) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON THE BRIDGE DECK(S) PRIOR TO PLACING COLD APPLIED PLASTIC PAVEMENT MARKINGS.

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

AYMAN ALQUDWAH, P.E. SIGNING & DELINEATION REGIONAL ENGINEER
D. PILLAR SIGNING & DELINEATION DESIGN ENGINEER



INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN COVER SHEET
PMP-2	PAVEMENT MARKING SCHEDULE
PMP-3-4	PAVEMENT MARKING DETAIL

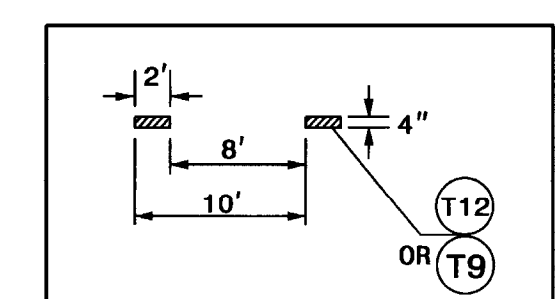
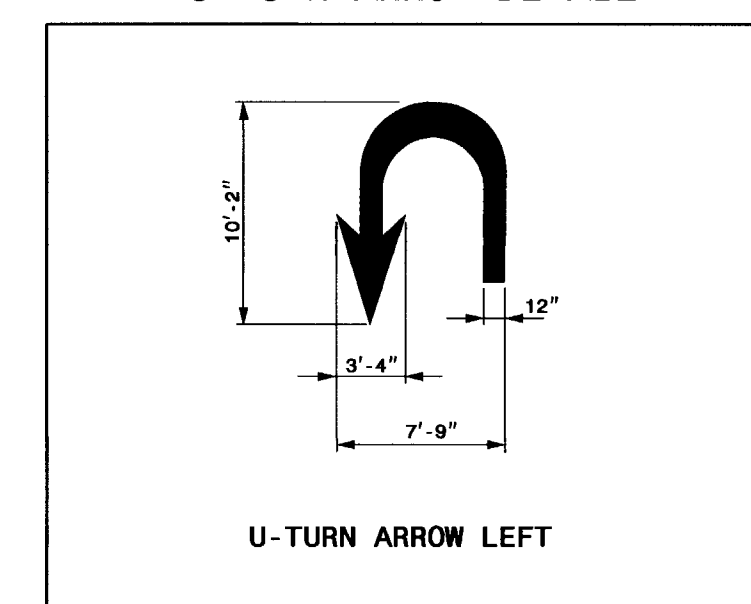
PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM QUANTITY	TOTAL
THERMOPLASTIC(24", 120 MILS)			
T2	WHITE STOPBAR	145 LF	
			TOTAL 145 LF
THERMOPLASTIC(4", 90 MILS)			
TA	WHITE EDGELINE	723 LF	
TB	YELLOW EDGELINE	514 LF	
			TOTAL 1237 LF
THERMOPLASTIC(6", 120 MILS)			
T12	2 FT. - 8 FT./SP YELLOW MINISKIP	80 LF	
T9	2 FT. - 8 FT./SP WHITE MINISKIP	68 LF	
TJ	10 FT. WHITE SKIP	1380 LF	
TK	2 FT. - 13 FT./SP WHITE MINISKIP	275 LF	
TL	WHITE SOLID LANE LINE	256 LF	
			TOTAL 2059 LF
THERMOPLASTIC(6", 90 MILS)			
T6	WHITE EDGELINE	5400 LF	
T7	YELLOW EDGELINE	3324 LF	
			TOTAL 8724 LF
THERMOPLASTIC(8", 90 MILS)			
TP	WHITE GORELINE	1967 LF	
TQ	WHITE DIAGONAL	205 LF	
TT	YELLOW DIAGONAL	113 LF	
			TOTAL 2285 LF
THERMOPLASTICPAVEMENT MARKING SYMBOLS (90 MILS)			
UA	LEFT TURN ARROW	6 EA	
UB	RIGHT TURN ARROW	4 EA	
UT	U-TURN ARROW	6 EA	
			TOTAL 16 EA
PERMANENT RAISED PAVEMENT MARKERS			
MB	CRYSTAL & RED	111 EA	
MA	YELLOW & YELLOW	13 EA	
			TOTAL 124 EA

SYMBOL AND PAVEMENT MARKING LEGEND

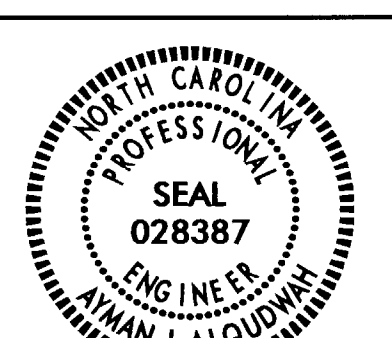
- THERMOPLASTIC
- ↶ UA LEFT TURN ARROW
 - ↷ UB RIGHT TURN ARROW
 - ← UC STRAIGHT ARROW
 - ↻ UT U-TURN
- THERMOPLASTIC
- ⊖ (UA) LEFT ARROW
 - ⊖ (TL) WHITE SOLID LANE LINE
 - ⊖ (T2) WHITE STOPBAR
 - ⊖ (TK) 2 FT. - 13 FT./SP WHITE MINISKIP
 - ⊖ (UB) RIGHT ARROW
 - ⊖ (UT) U-TURN ARROW
 - ⊖ (TA) WHITE EDGELINE
 - ⊖ (TJ) 10 FT. WHITE SKIP
 - ⊖ (TT) YELLOW DIAGONAL
 - ⊖ (TB) YELLOW EDGELINE
 - ⊖ (TP) WHITE GORELINE
 - ⊖ (TQ) WHITE DIAGONAL
 - ⊖ (T6) WHITE EDGELINE
 - ⊖ (T7) YELLOW EDGELINE
 - ⊖ (T9) 2 FT. - 8 FT./SP WHITE MINISKIP
 - ⊖ (T12) 2 FT. - 8 FT./SP YELLOW MINISKIP

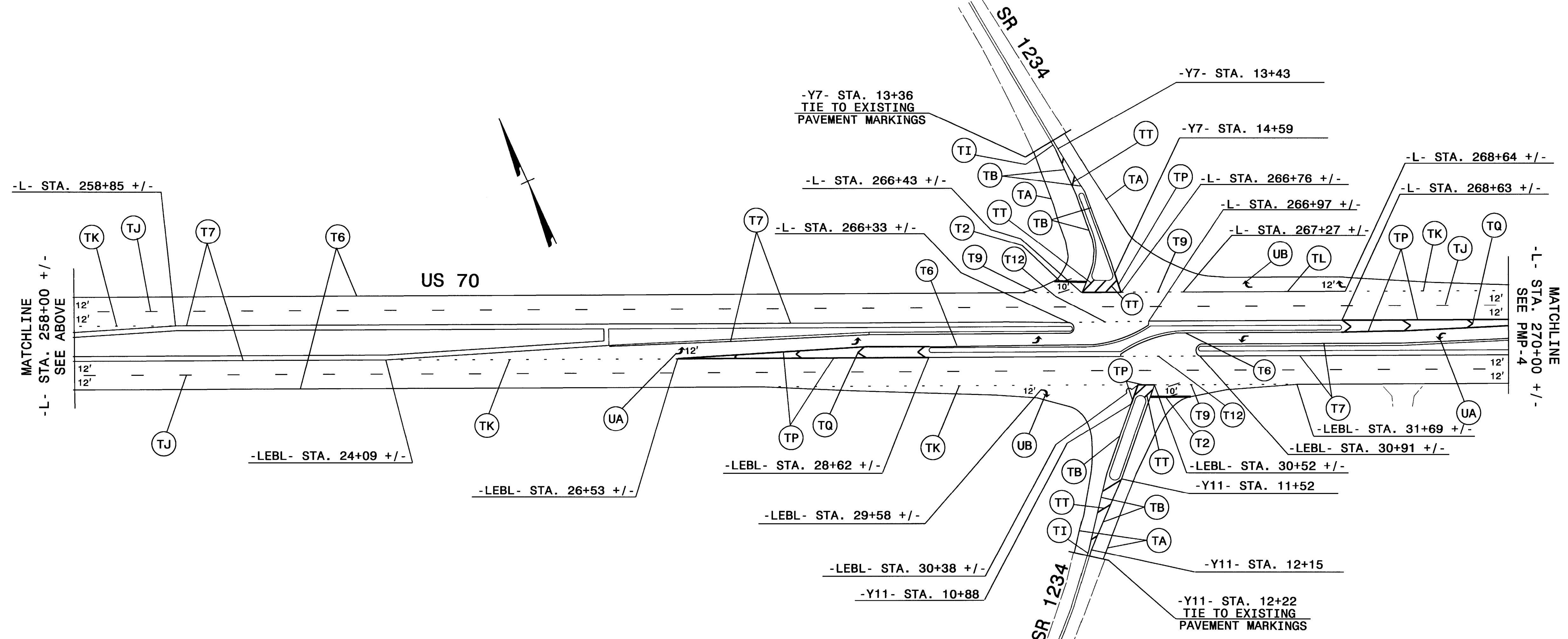
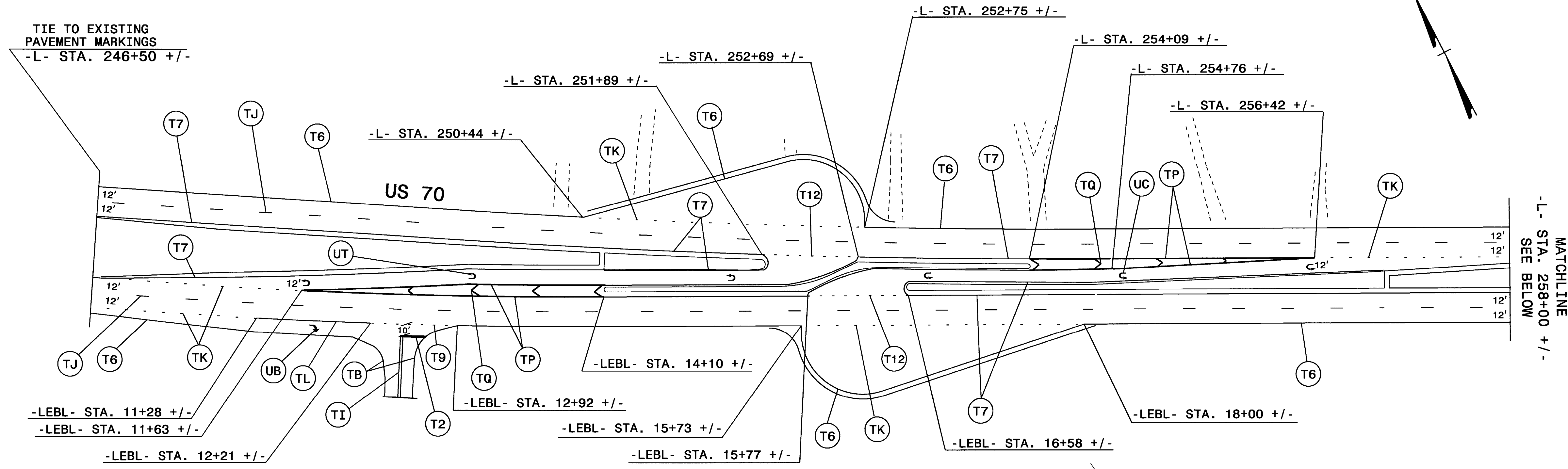
U-TURN ARROW DETAIL




DETAIL 'B'
SPECIAL DETAIL FOR
MINI-SKIP SPACING
FOR TURN LANES

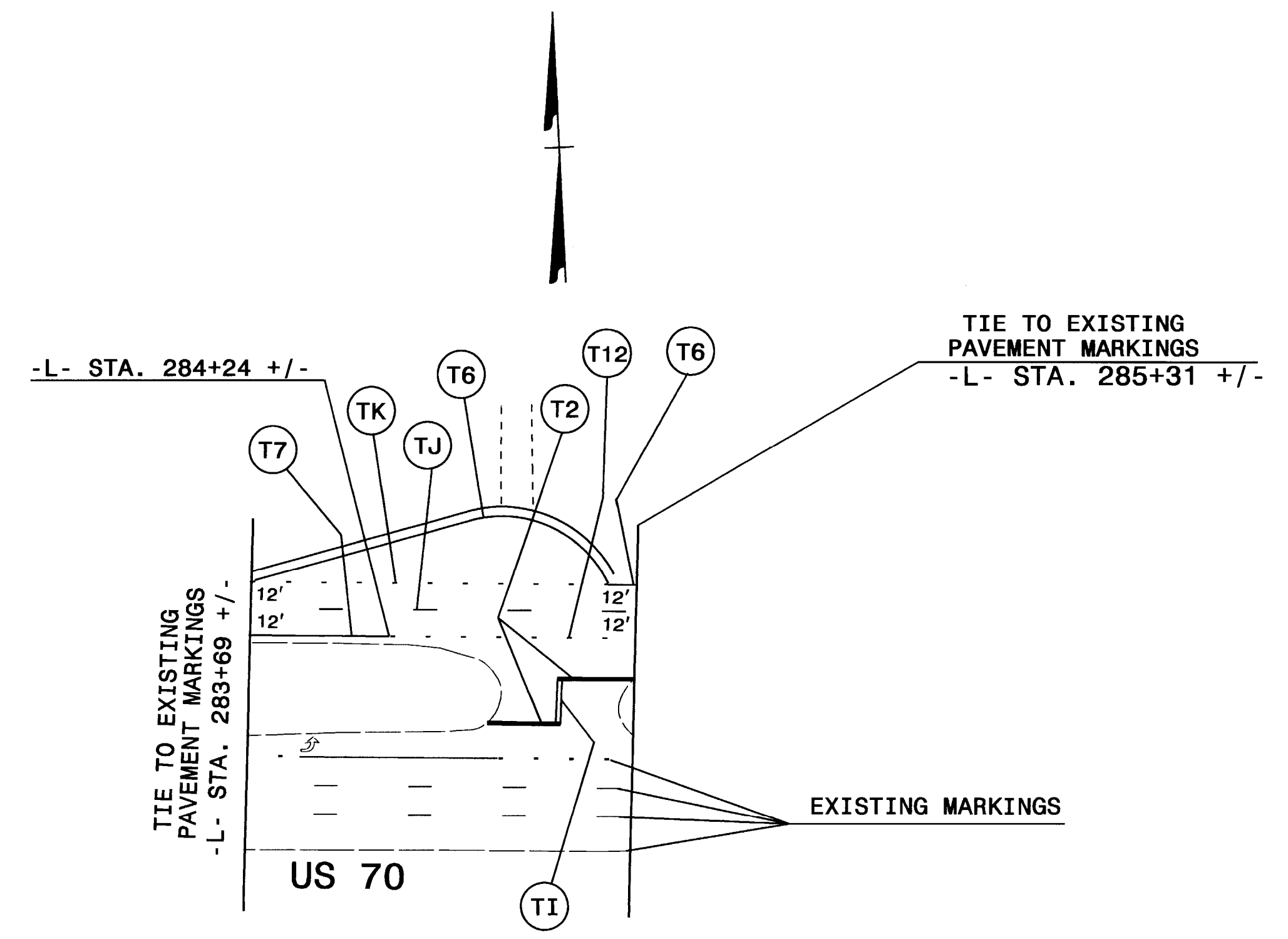
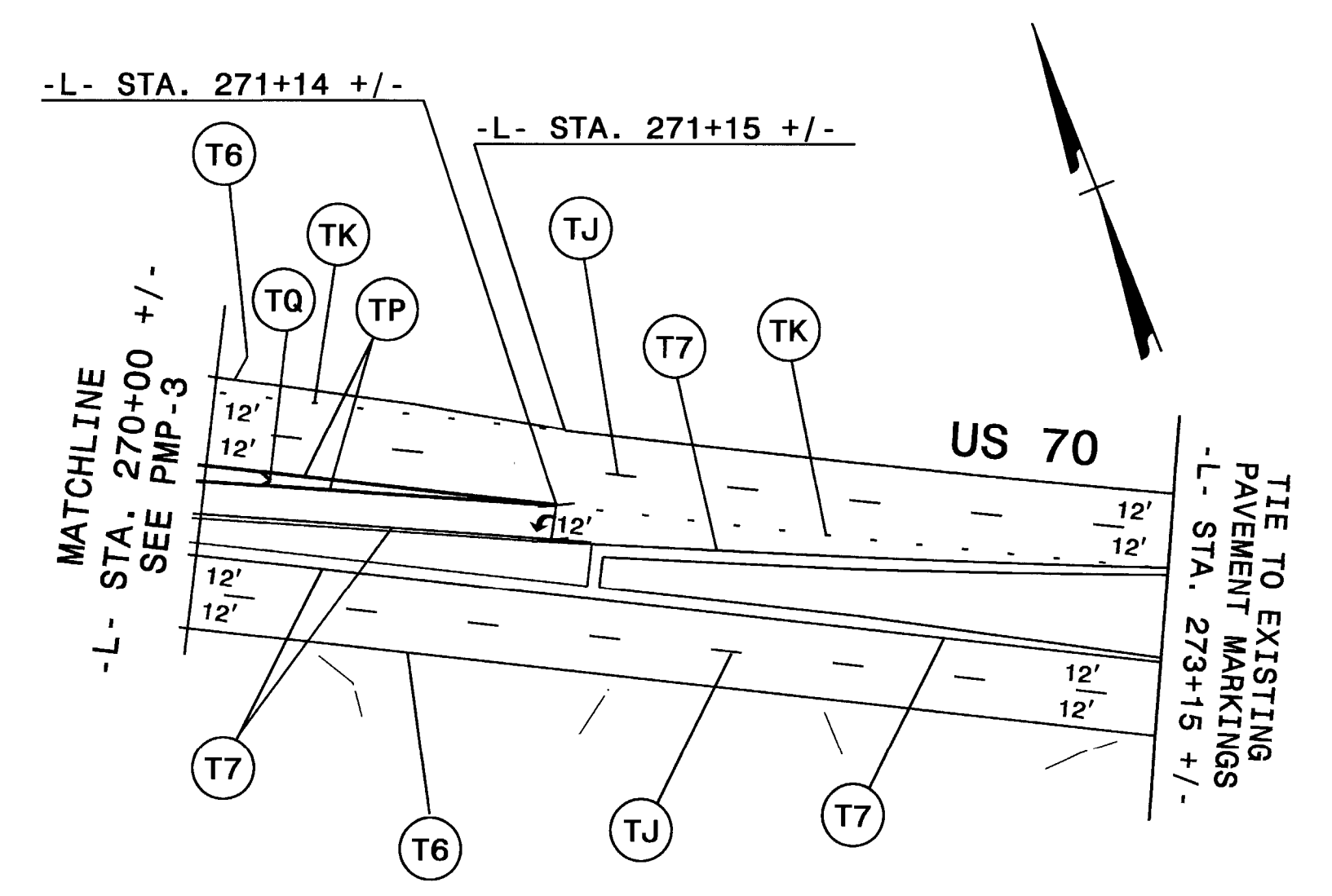
TIP NO. W-5010	SHEET NO. PMP-2
APPROVED: _____	
DATE: _____	
SEAL	

TIP NO.	SHEET NO.
W-5010	PMP-3
APPROVED: <i>[Signature]</i>	
DATE: 10-5-10	
SEAL	
	



PAVEMENT MARKING DETAIL

TIP NO. W-5010	SHEET NO. PMP-4
APPROVED: <i>Ayman Alquodhi</i>	
DATE: 10-5-10	
SEAL	
	



PAVEMENT MARKING DETAIL

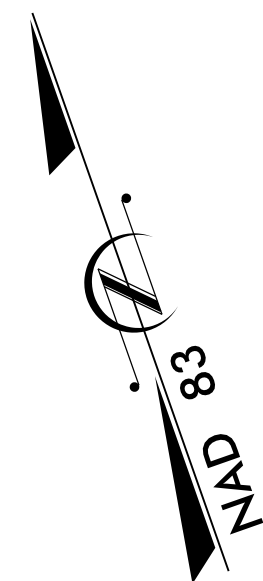
TIP PROJECT: W-5010

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

WAYNE COUNTY

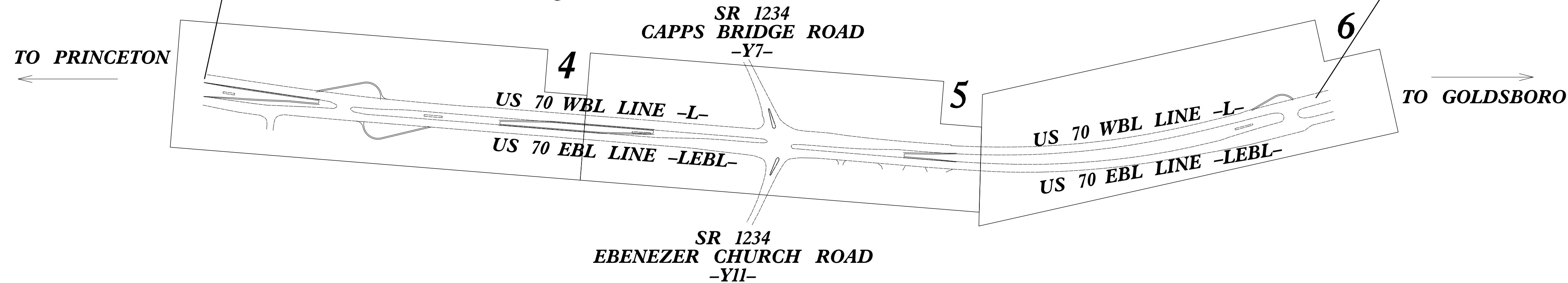
LOCATION: US 70 FROM 0.390 MILES WEST OF SR 1234
(EBENEZER CHURCH ROAD-CAPPS BRIDGE ROAD)
TO 0.358 MILES EAST OF SR 1234

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING



-L- POT 286+00.00
END TIP PROJECT W-5010

-L- POT 246+50.00
BEGIN TIP PROJECT W-5010



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5010	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.05	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	TBD
	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	⊗
	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
1632.05	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

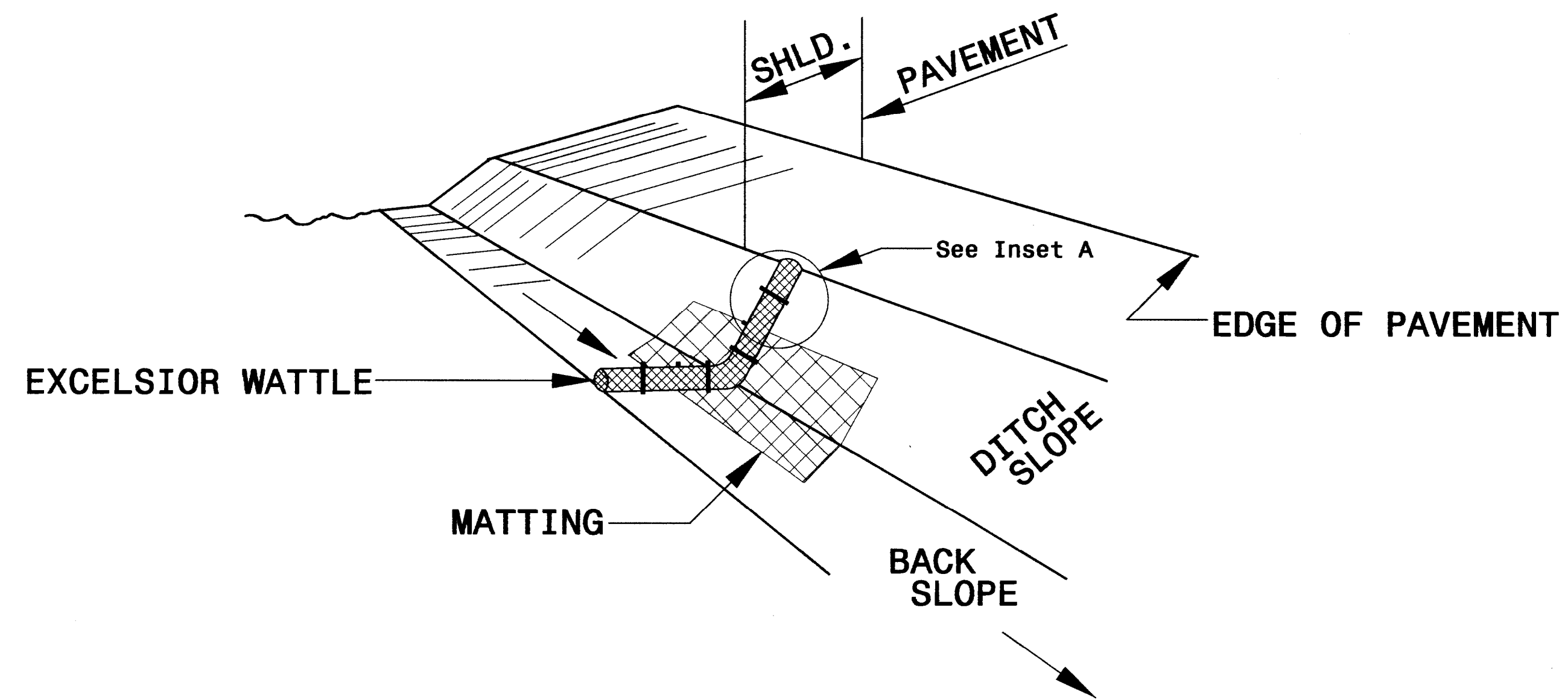
THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

2006 STANDARD SPECIFICATIONS

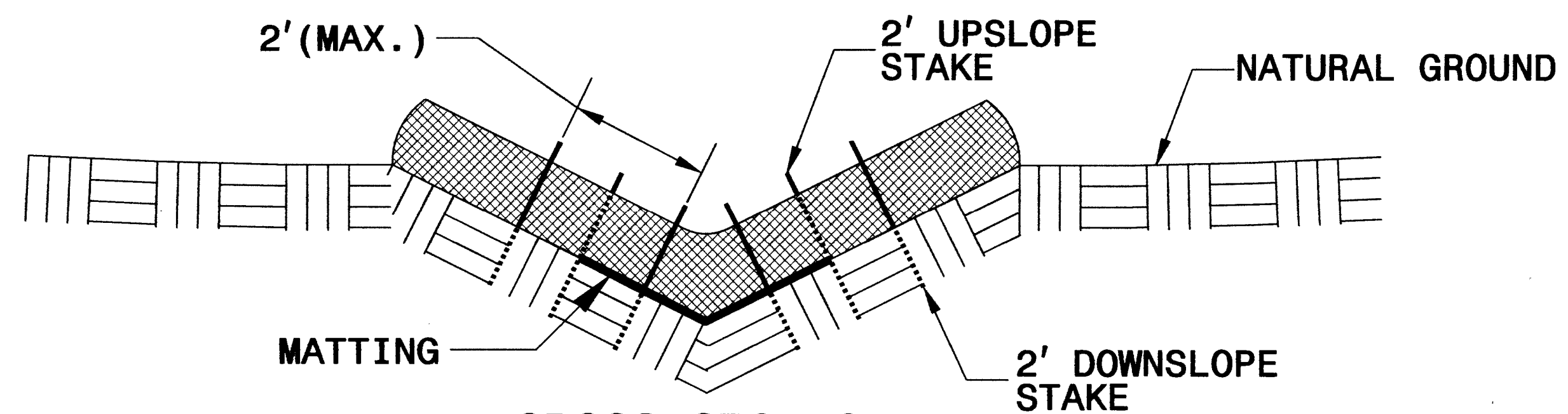
Roadway Standard Drawings
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

- 1605.01 Temporary Silt Fence
- 1607.01 Gravel Construction Entrance
- 1632.03 Rock Inlet Sediment Trap Type C
- 1635.02 Rock Pipe Inlet Sediment Trap Type B

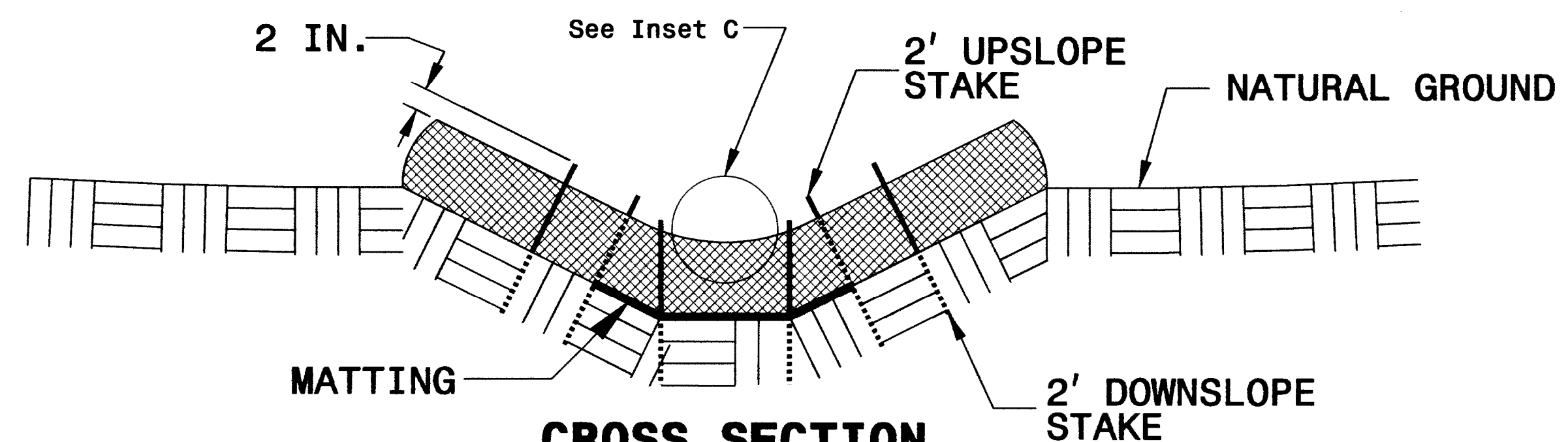
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

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

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

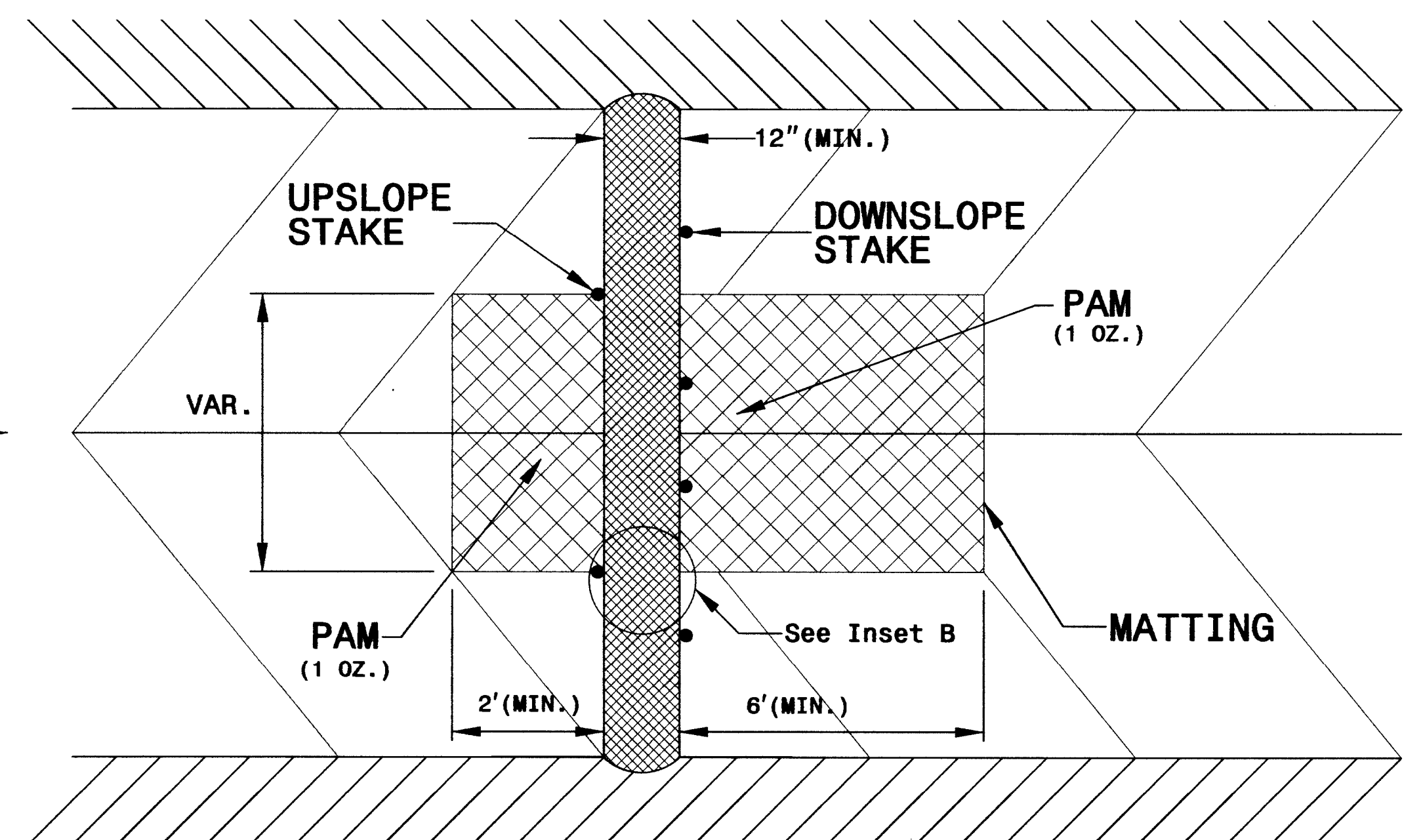
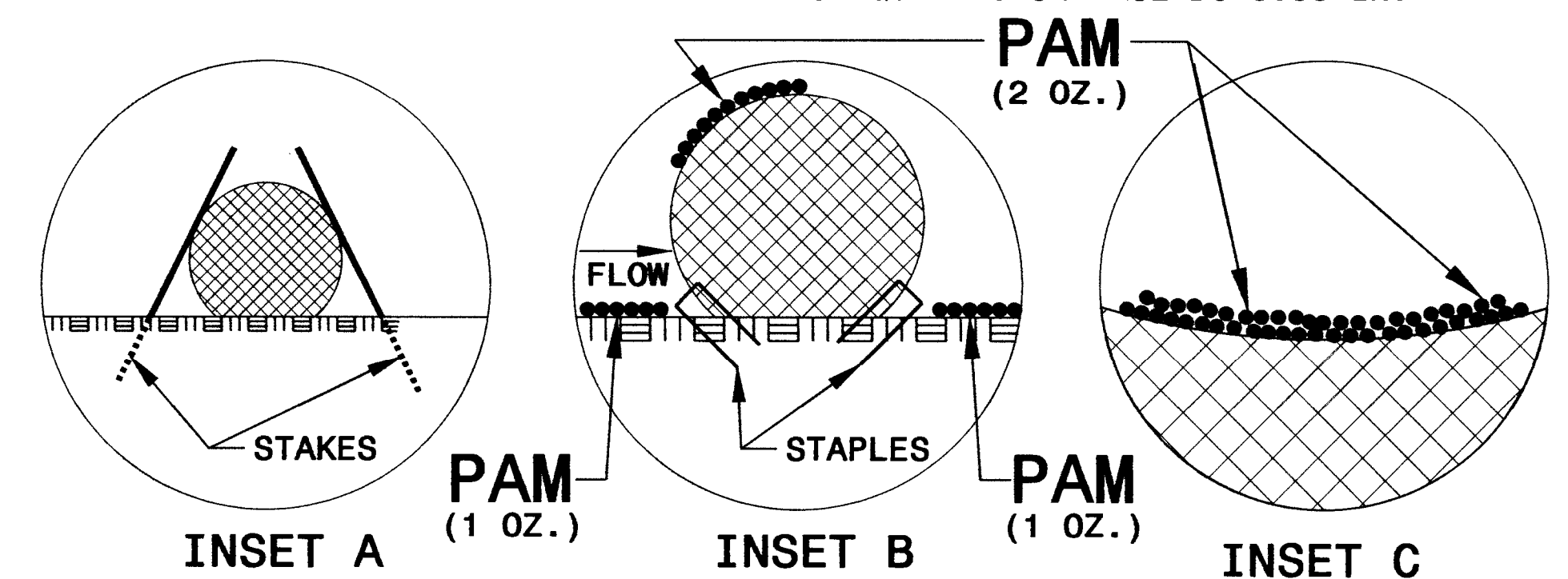
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

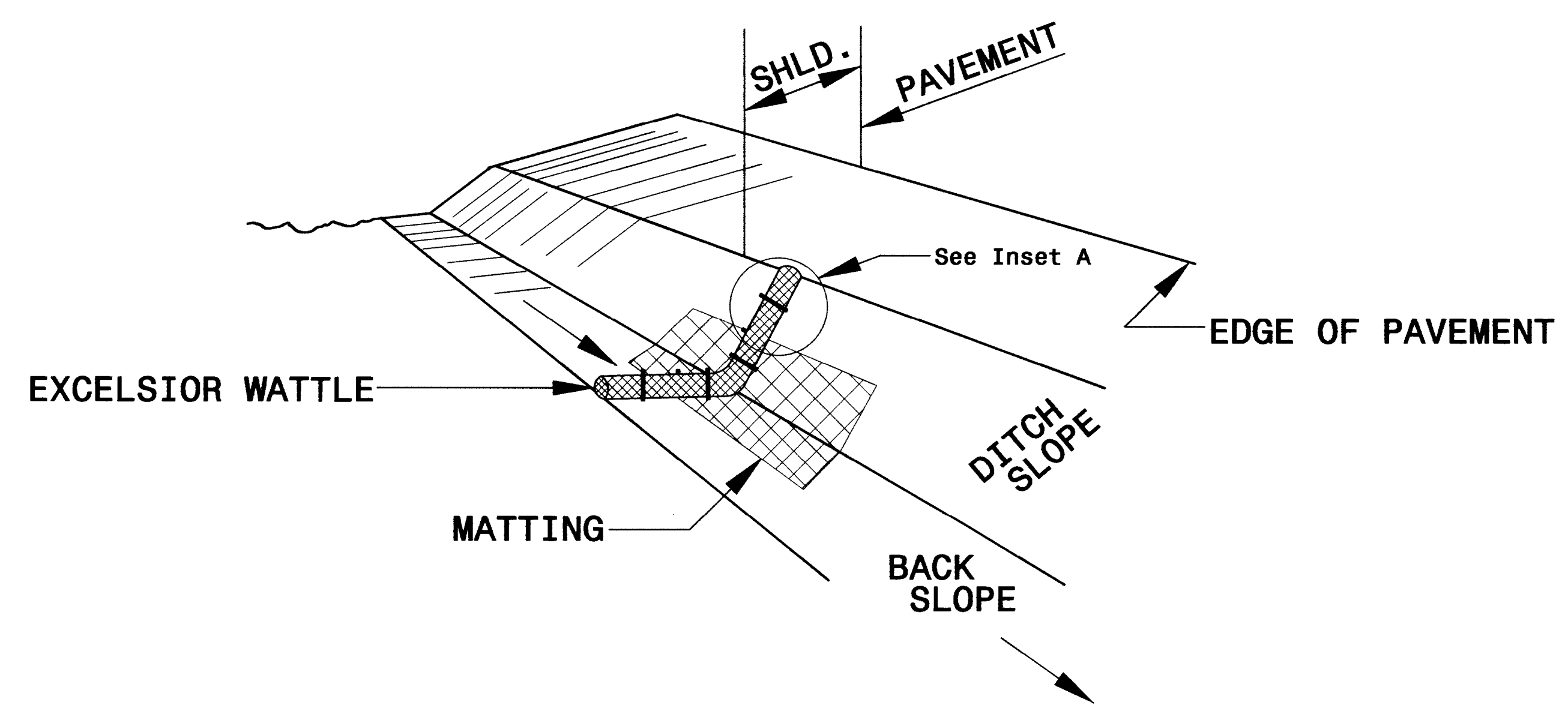
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

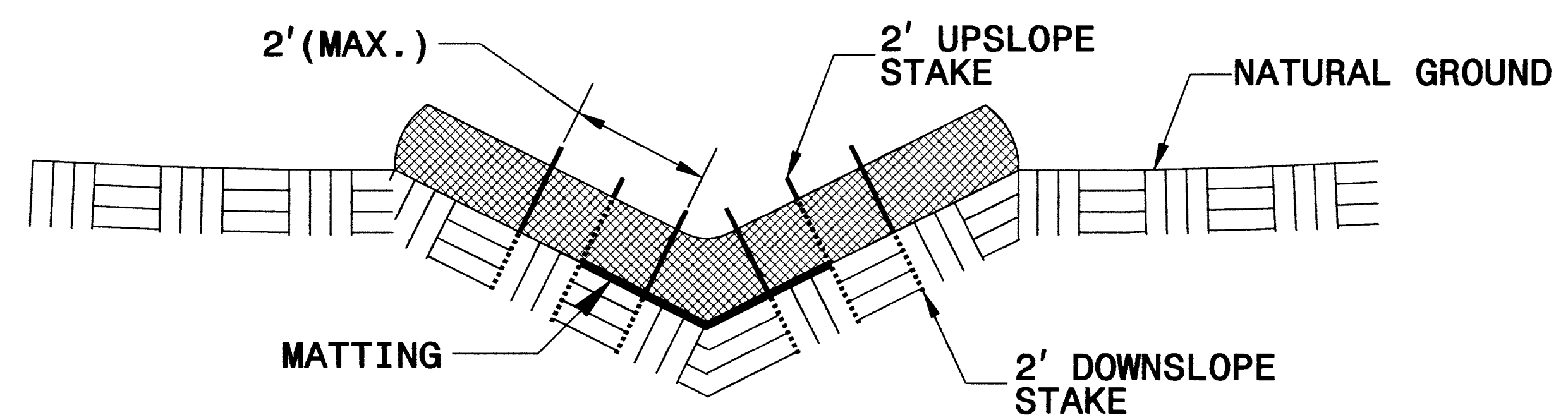


TOP VIEW

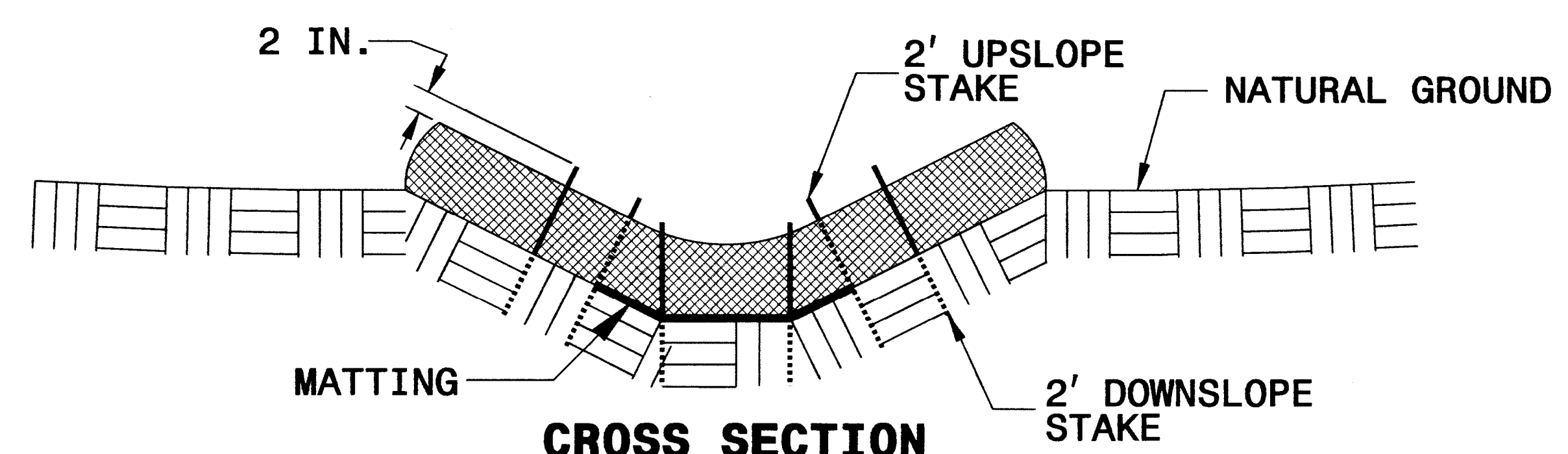
WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

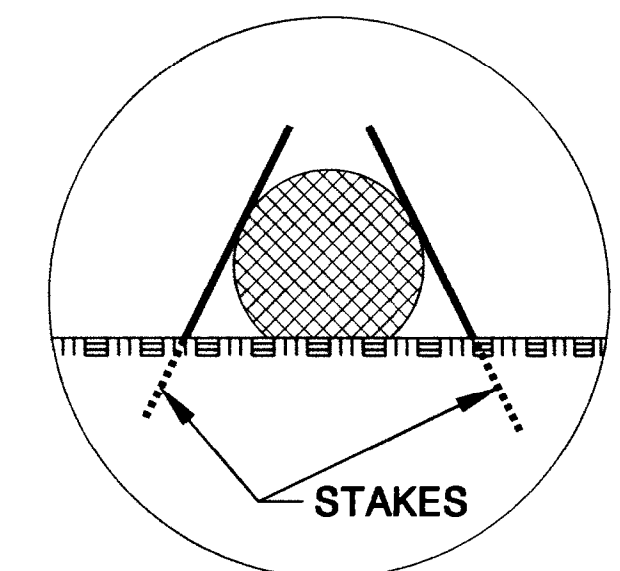
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

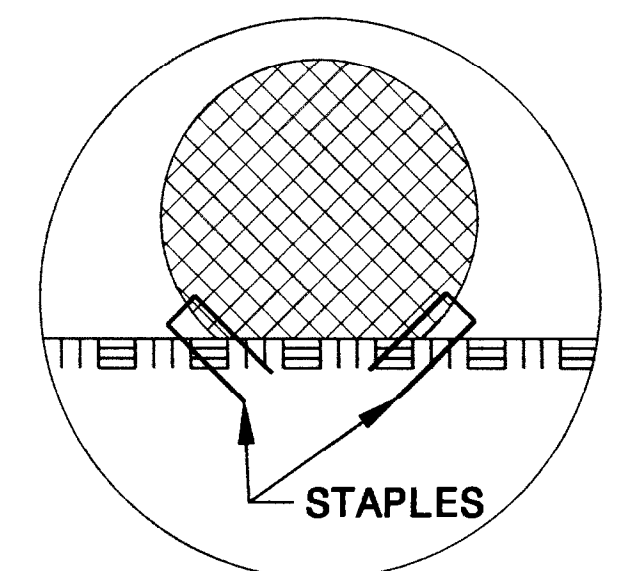
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

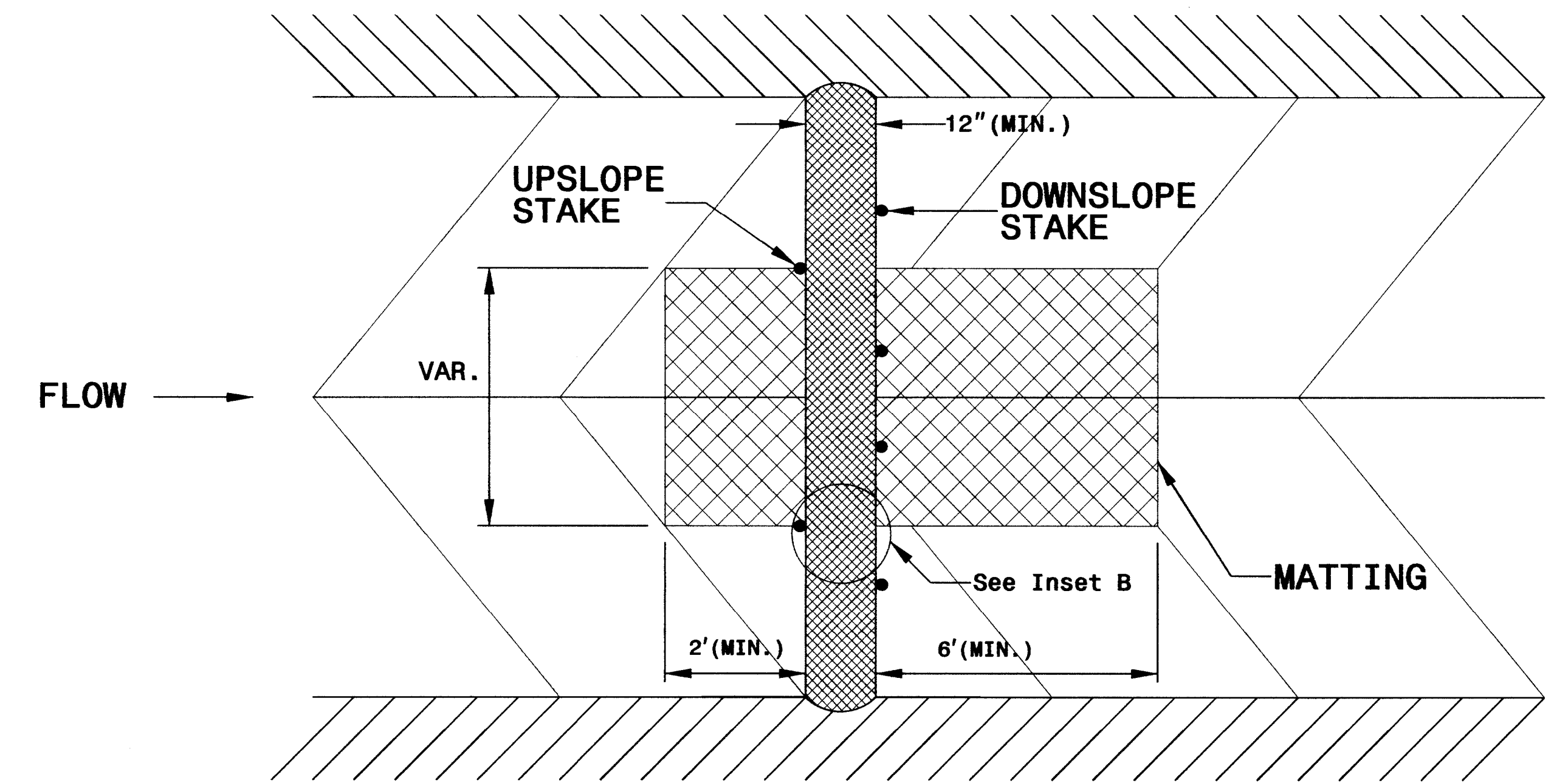
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A

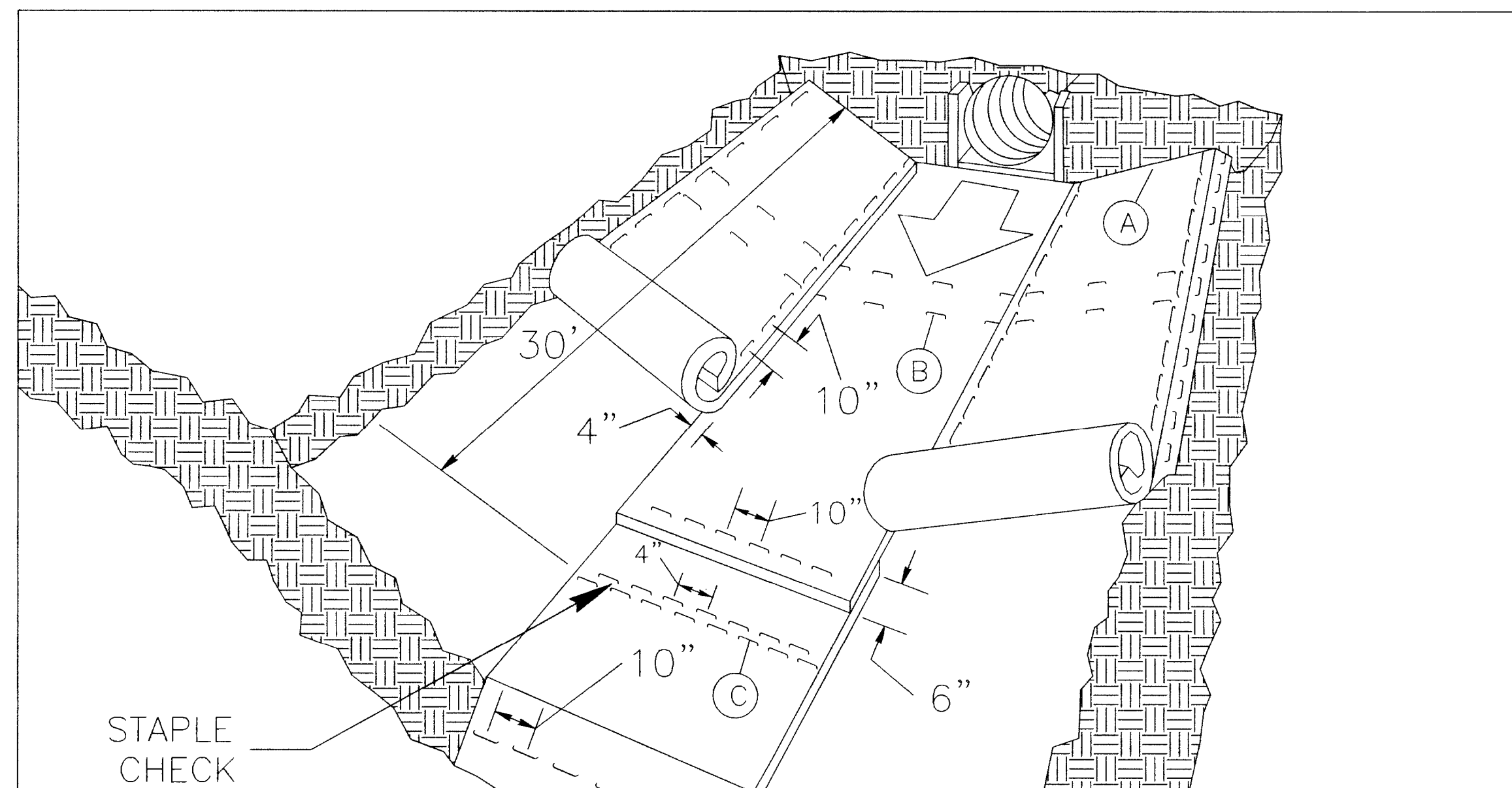


INSET B



TOP VIEW

MATTING INSTALLATION DETAIL



MATTING IN DITCHES

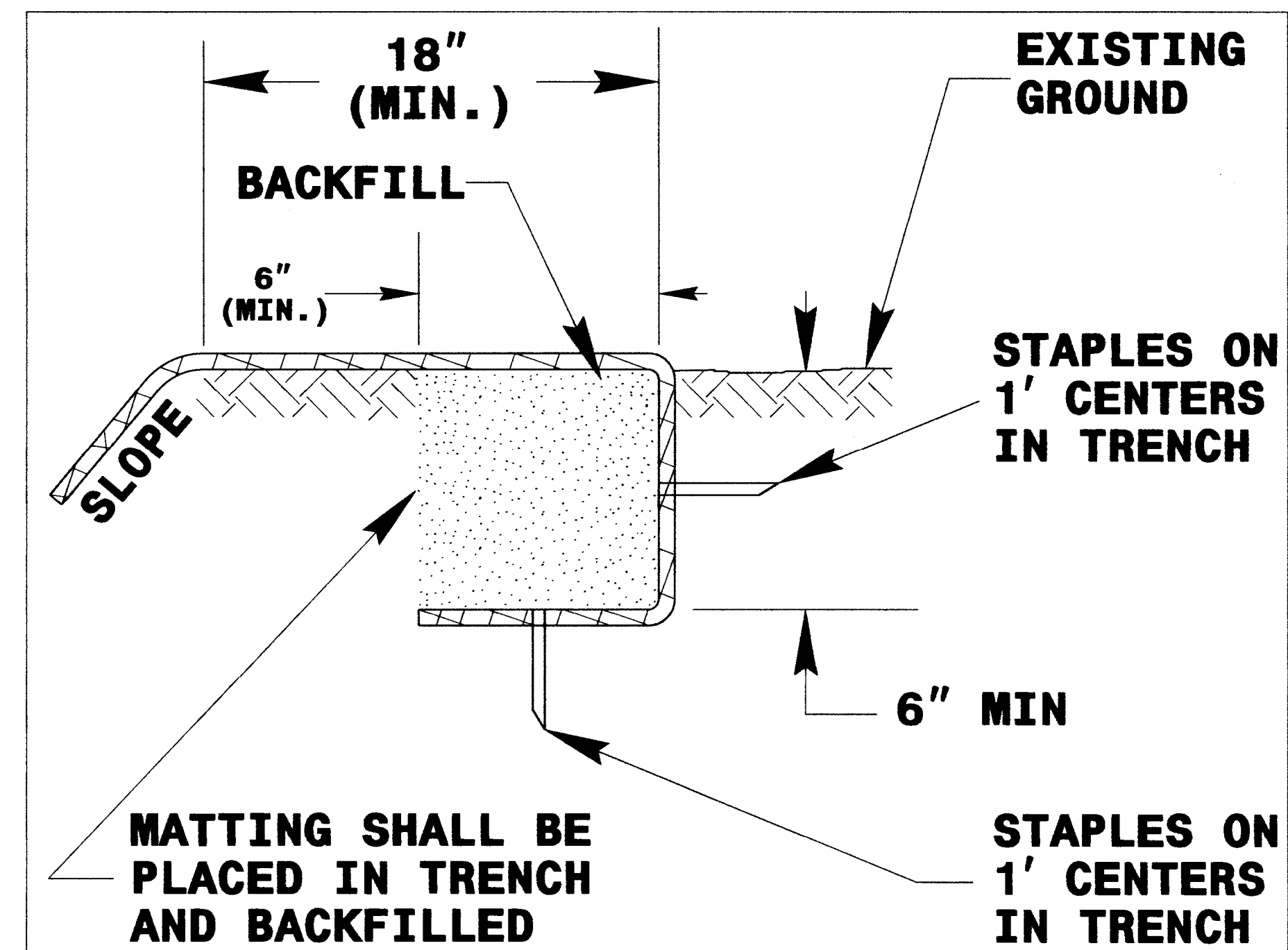
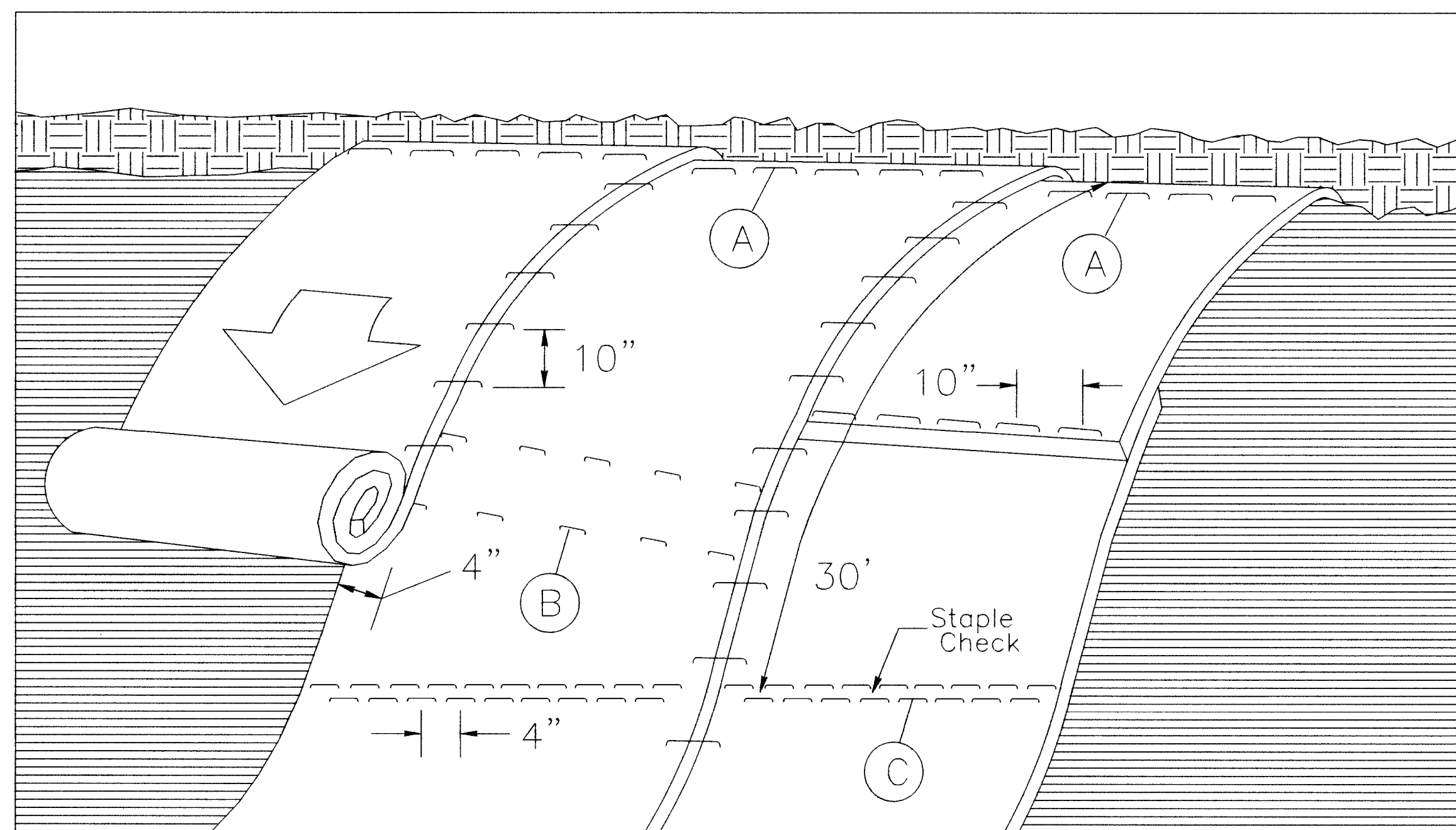


DIAGRAM (A)



MATTING ON SLOPES

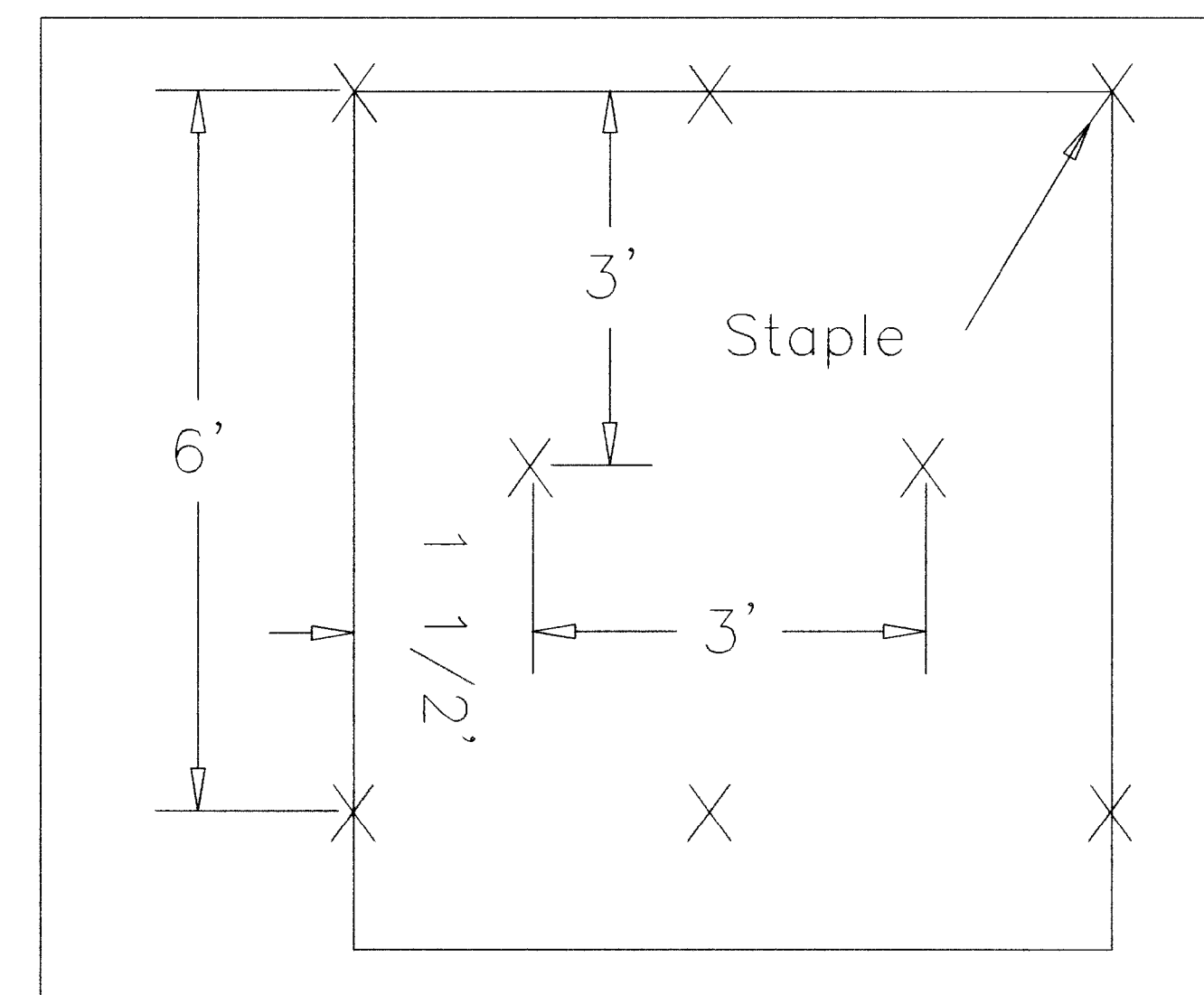


DIAGRAM (B)

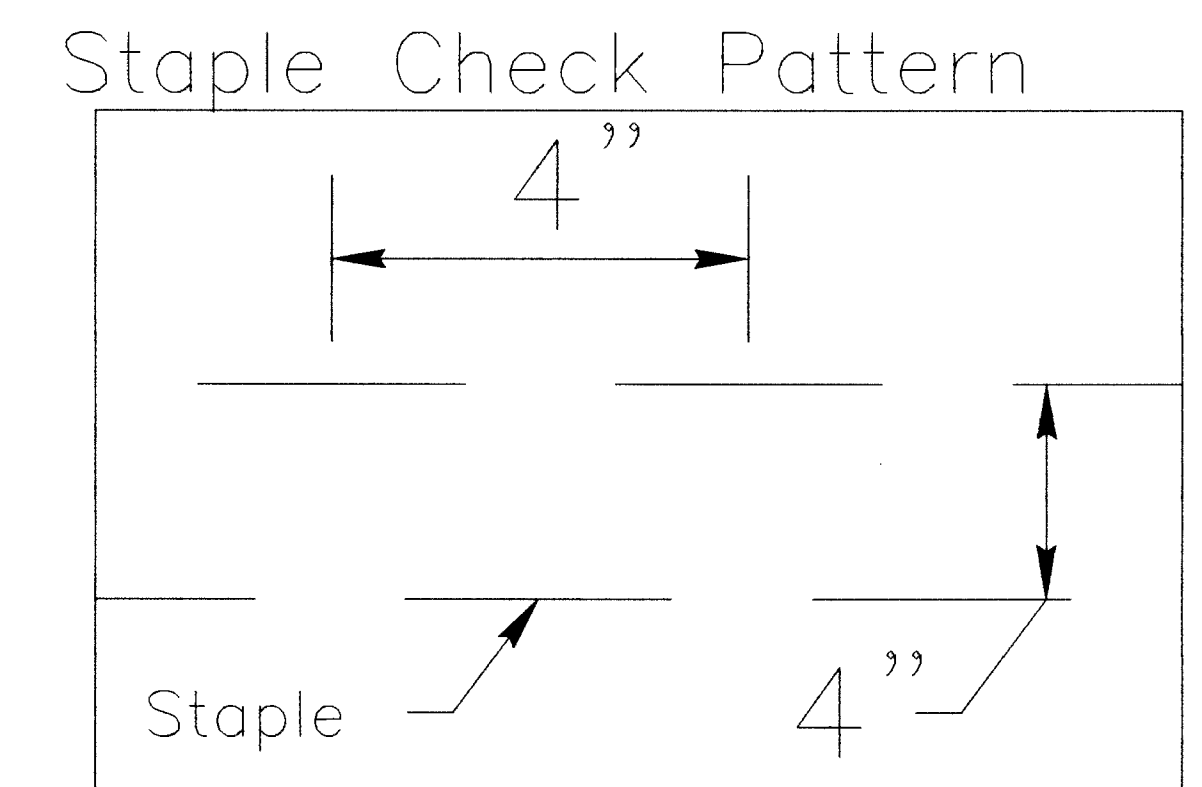


DIAGRAM (C)

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

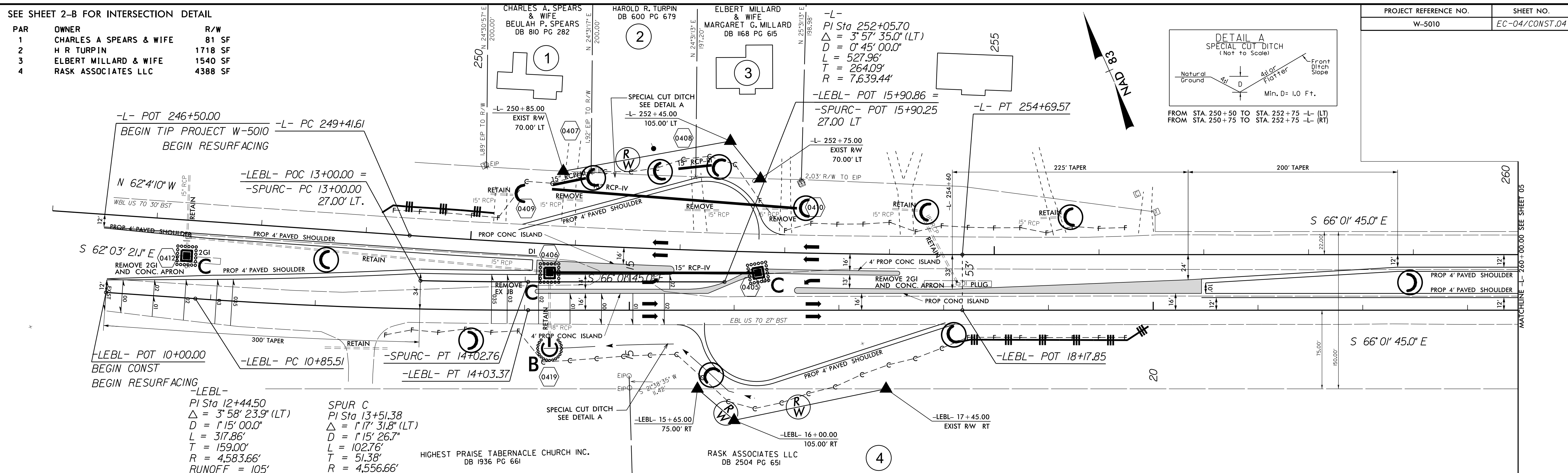
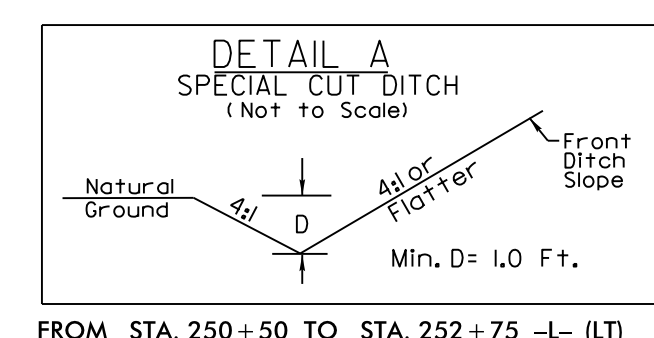
SOIL STABILIZATION TIMEFRAMES

<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.

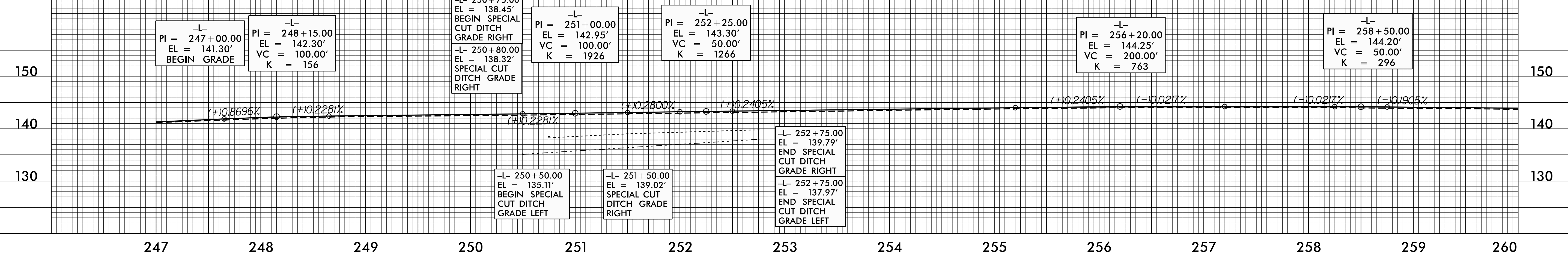
SEE SHEET 2-B FOR INTERSECTION DETAIL

PAR	OWNER	R/W
1	CHARLES A SPEARS & WIFE	81 SF
2	H R TURPIN	1718 SF
3	ELBERT MILLARD & WIFE	1540 SF
4	RASK ASSOCIATES LLC	4388 SF

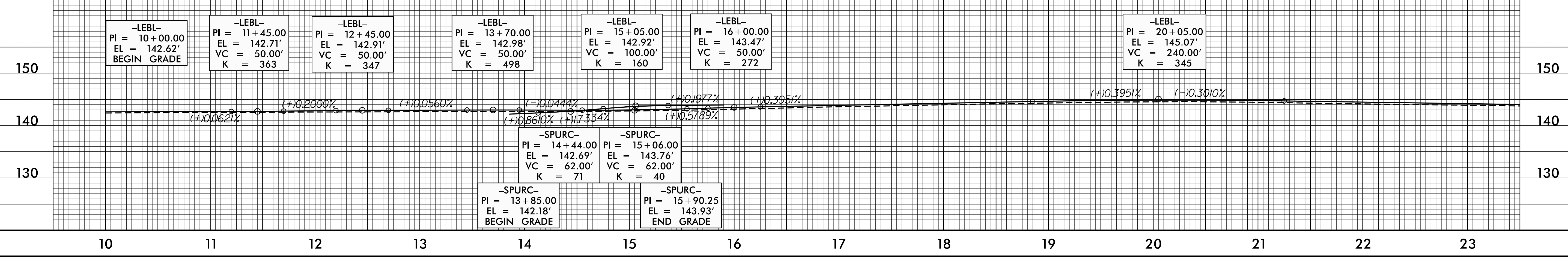
PROJECT REFERENCE NO.	SHEET NO.
W-5010	EC-04/CONST.04



LINE -L-



LINE -LEBL-



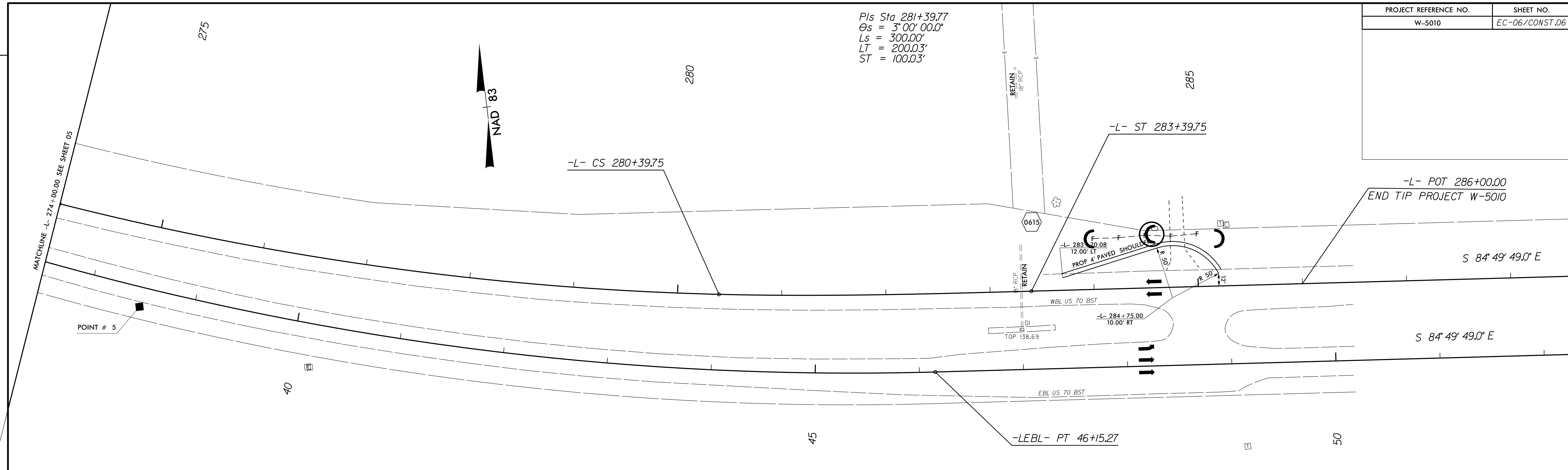
02_FEB_2012 09:45
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REVISIONS

MAX CUTLINE -L- 260+00.00 SEE SHEET 05

PROJECT REFERENCE NO.	SHEET NO.
W-5010	EC-06/CONST.06

Pis Sta 281+39.77
 $\Theta_s = 3^{\circ}00'00.0''$
 $L_s = 300.00'$
 $LT = 200.03'$
 $ST = 100.03'$



REVISIONS

02-FEB-2012 09:47
 R:\EC Plans\w5010 dde4_ECps06.dgn
 \$\$\$USERNAME\$\$\$

T.I.P.: W-5010

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS
WAYNE COUNTY**

**LOCATION: US 70 AT SR 1234 (EBENEZER CHURCH ROAD-CAPPS
BRIDGE ROAD) AND WEST OF SR 1234**

TIP NO. W-5010	SHEET NO. SIGN-1
APPROVED:	
DATE: <u>10-5-10</u>	
SEAL	

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 JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
901.50	ARROWS AND SHIELDS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
904.30	SUPPLEMENTAL SIGN MOUNTING
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

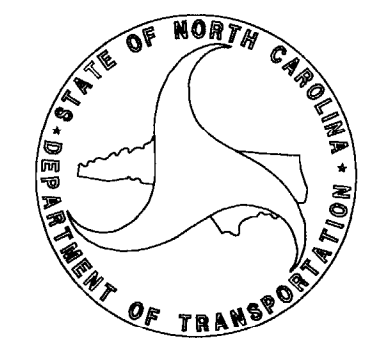
GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRAFFIC CONTROL PLANS.
- . 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.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.

ITEM NO.	ITEM DESCRIPTION		QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	918	L.F.
4102000000	904	SIGN ERECTION, TYPE E	75	EA.
4108000000	904	SIGN ERECTION, TYPE F	11	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	31	EA.


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

AYMAN ALQUDWAH, P.E. SIGNING & DELINEATION REGIONAL ENGINEER
D. PILLAR SIGNING & DELINEATION DESIGN ENGINEER




INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET, SUMMARY OF QUANTITIES AND NOTES
SIGN-2	E SHEET
SIGN-3	F SHEET
SIGN-4	SIGN DESIGNS
SIGN-5-7	EXISTING AND PROPOSED SIGNS

TIP NO. W-5010	SHEET NO. SIGN-2
APPROVED: <i>[Signature]</i>	
DATE: 10-5-10	
SEAL	
	

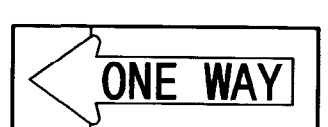
401 QUANTITY REQ'D 1



24 X 30
R2-1

ONE "U" POST PER SIGN

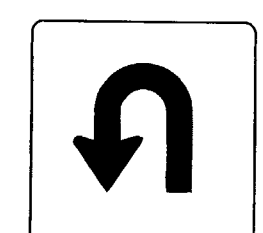
406 QUANTITY REQ'D 6



36 X 12
R6-1 (L)

TWO "U" POSTS PER SIGN
MOUNT ABOVE SIGN: #402 IN 2 INSTALLATIONS

411 QUANTITY REQ'D 6




24 X 24

MOUNT BELOW SIGNS: #501,502,504,505,509,510
IN 6 INSTALLATIONS
SEE SIGN DESIGN (SHEET SIGN-4)

ONE "U" POST PER SIGN

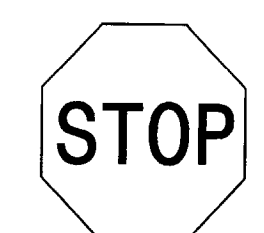
416 QUANTITY REQ'D 4



36 X 36
W14-12

ONE "U" POST PER SIGN

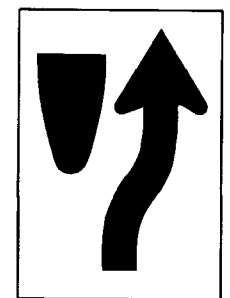
402 QUANTITY REQ'D 6



30 X 30
R1-1

ONE "U" POST PER SIGN
MOUNT BELOW SIGNS: #405,406 IN 2 INSTALLATIONS


407 QUANTITY REQ'D 4



24 X 30
R4-7

ONE "U" POST PER SIGN

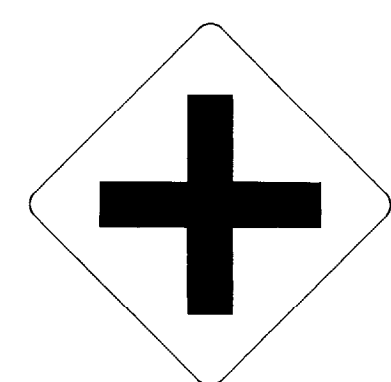
412 QUANTITY REQ'D 3



24 X 12
W16-9P

MOUNT BELOW SIGNS: #501,504,509
IN 3 INSTALLATIONS

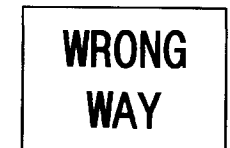
417 QUANTITY REQ'D 4



36 X 36
W2-1

ONE "U" POST PER SIGN

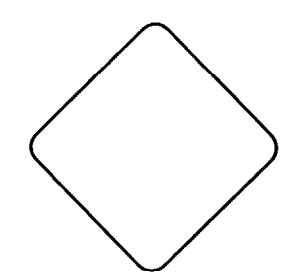
403 QUANTITY REQ'D 6



36 X 24
R5-1a

ONE "U" POST PER SIGN

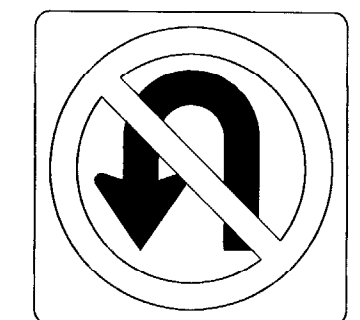
408 QUANTITY REQ'D 4



18 X 18
OM1-3

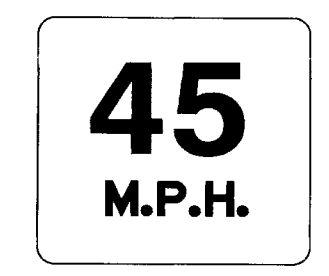
MOUNT BELOW SIGN #407
IN 2 INSTALLATIONS

413 QUANTITY REQ'D 2



24 X 24
R3-4

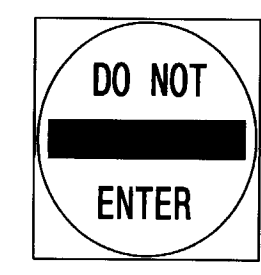
418 QUANTITY REQ'D 4



18 X 18
W13-1

MOUNT BELOW SIGNS: #417
IN 4 INSTALLATIONS

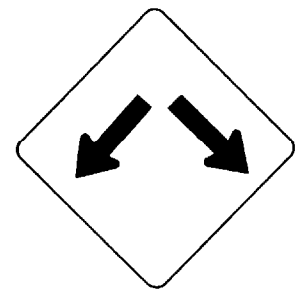
404 QUANTITY REQ'D 10



30 X 30
R5-1

ONE "U" POST PER SIGN

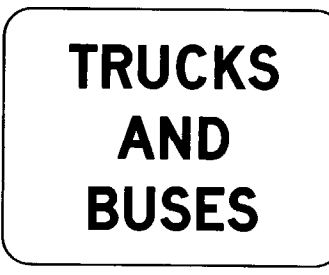
409 QUANTITY REQ'D 4



36 X 36
W12-1

ONE "U" POST PER SIGN

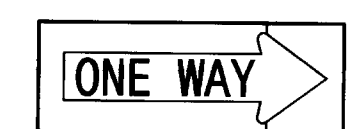
414 QUANTITY REQ'D 2



24 X 18

MOUNT BELOW SIGN #413 IN 2 INSTALLATIONS
SEE SIGN DESIGN (SHEET SIGN-4)

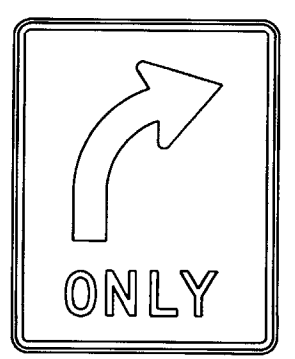
405 QUANTITY REQ'D 4



36 X 12
R6-1 (R)

TWO "U" POSTS PER SIGN
MOUNT ABOVE SIGN: #402 IN 2 INSTALLATIONS

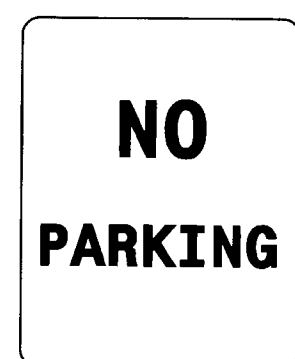
410 QUANTITY REQ'D 2



30 X 36
R3-5 (R)

ONE "U" POST PER SIGN

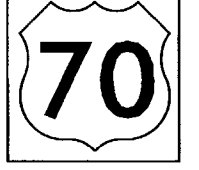

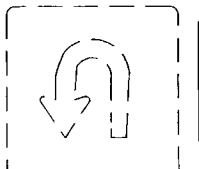
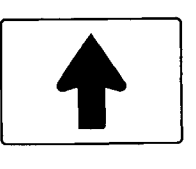

415 QUANTITY REQ'D 3





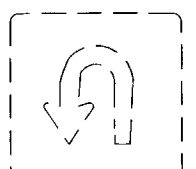
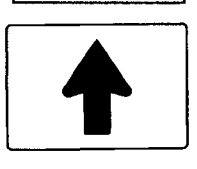

18 X 24
R6-3

ONE "U" POST PER SIGN


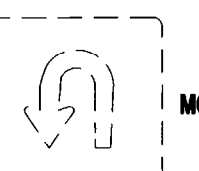
TYPE "E" SIGNS

501
504
 WEST EAST 2-24 X 12

 2-24 X 24

 1-21 X 15




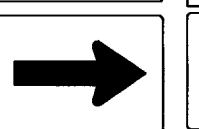

TWO U POSTS PER SIGN

509
 EAST WEST 2-24 X 12

 2-24 X 24

 1-21 X 15



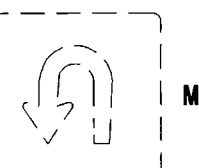
TWO U POSTS PER SIGN

502
505 WEST 1-24 X 12
507  1-24 X 24
511  MOUNT BELOW #502,505 ONLY



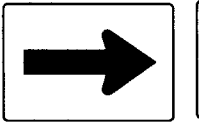

ONE U POST PER SIGN

503
 TO 1-24 X 12
 WEST EAST 2-24 X 12

 2-24 X 24

 2-21 X 15

TWO U POSTS PER SIGN


506
510 EAST 1-24 X 12
 1-24 X 24
 MOUNT BELOW #510 ONLY

ONE U POST PER SIGN

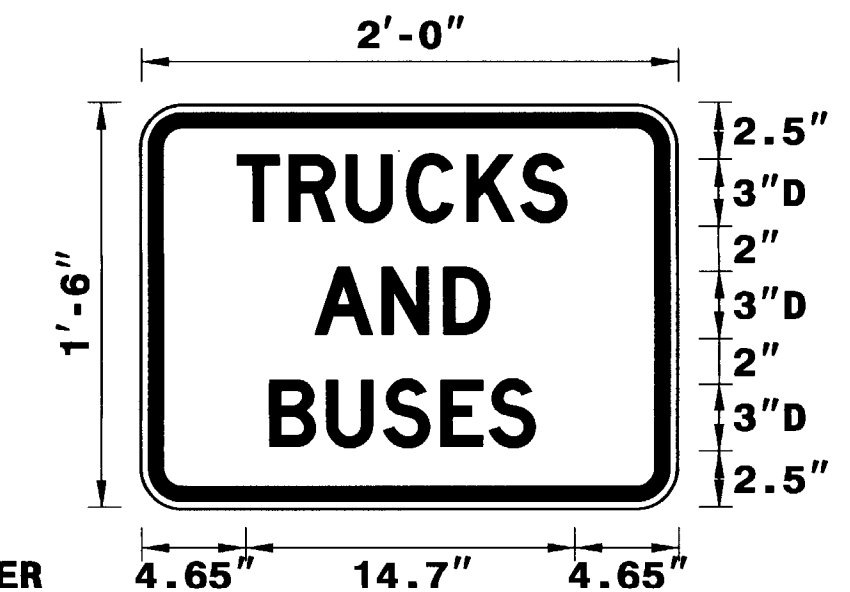
508
 TO 1-24 X 12
 EAST WEST 2-24 X 12

 2-24 X 24

 2-21 X 15

TWO U POSTS PER SIGN

TYPE "F" SIGNS

TIP NO. W-5010	SHEET NO. SIGN-4
APPROVED: <i>[Signature]</i>	
DATE: 10-5-10	
SEAL	
	

SIGN NUMBER: 414 TYPE: E QUANTITY: 2 SIGN WIDTH: 2'-0" HEIGHT: 1'-6" TOTAL AREA: 3.0 Sq.Ft. BORDER TYPE: RECESSED RECESS: 0.38" WIDTH: 0.63" RADIUS: 1.5" NO. Z BARS: LENGTH:	BACK COLOR: White COPY COLOR: Black SYMBOL	DESIGN BY: DP PROJECT ID: R-2510C	CHECKED BY: DME DIV: 4	DATE: April 13, 2010
--	--	--------------------------------------	---------------------------	----------------------

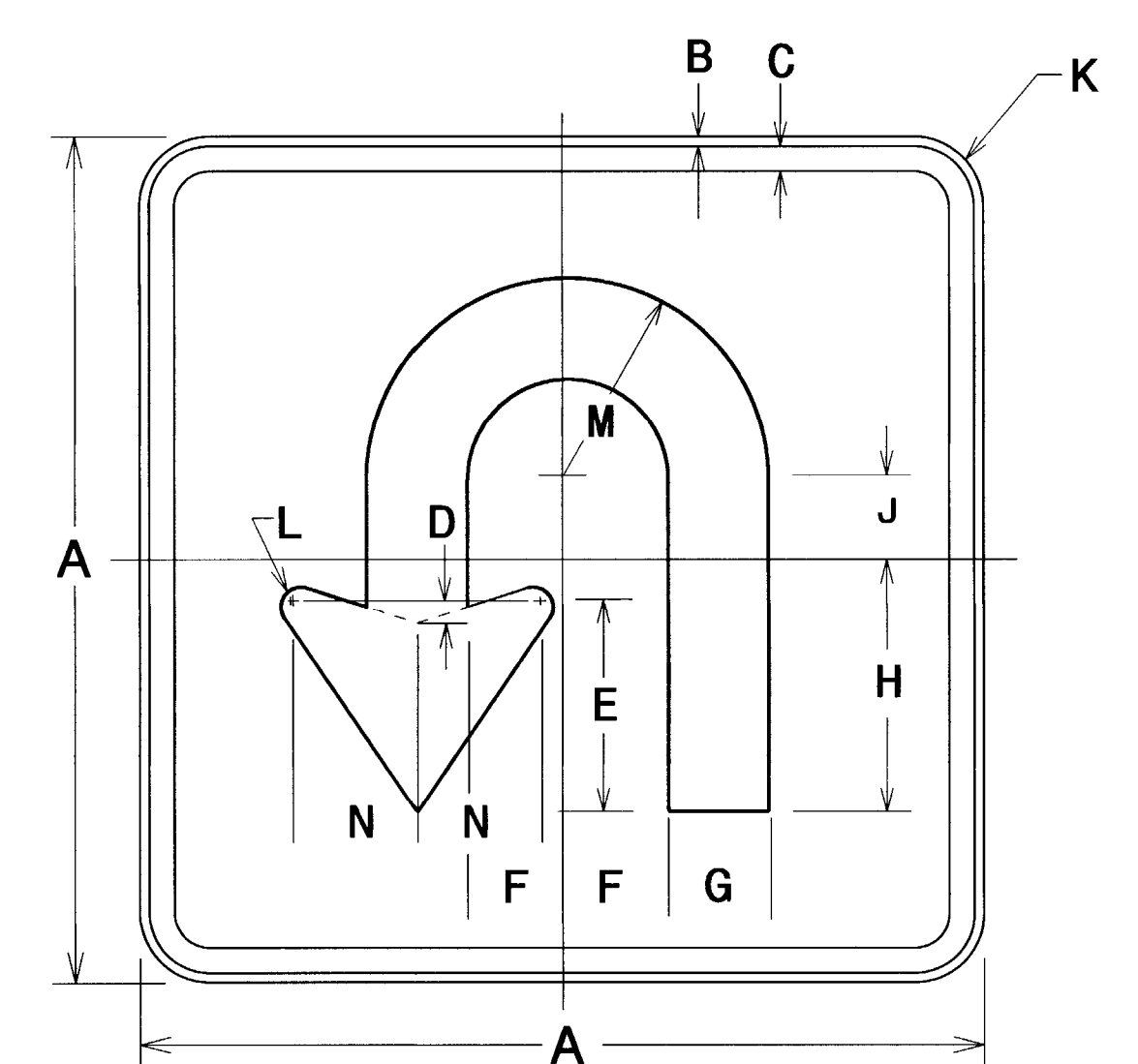


BORDER
R=1.5"
TH=0.63"
IN=0.38"

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS										Series/Size
Letter spacings are to start of next letter										Text Length
	T	R	U	C	K	S				D 2000
4.65	2.3	2.6	2.7	2.7	2.4	2	4.65			14.7
	A	N	D							D 2000
8.1	3	2.8	2	6.1						7.8
	B	U	S	E	S					D 2000
6.1	2.5	2.5	2.5	2.2	2	6.1				11.9

FILENAME: r2510a_sgn_guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

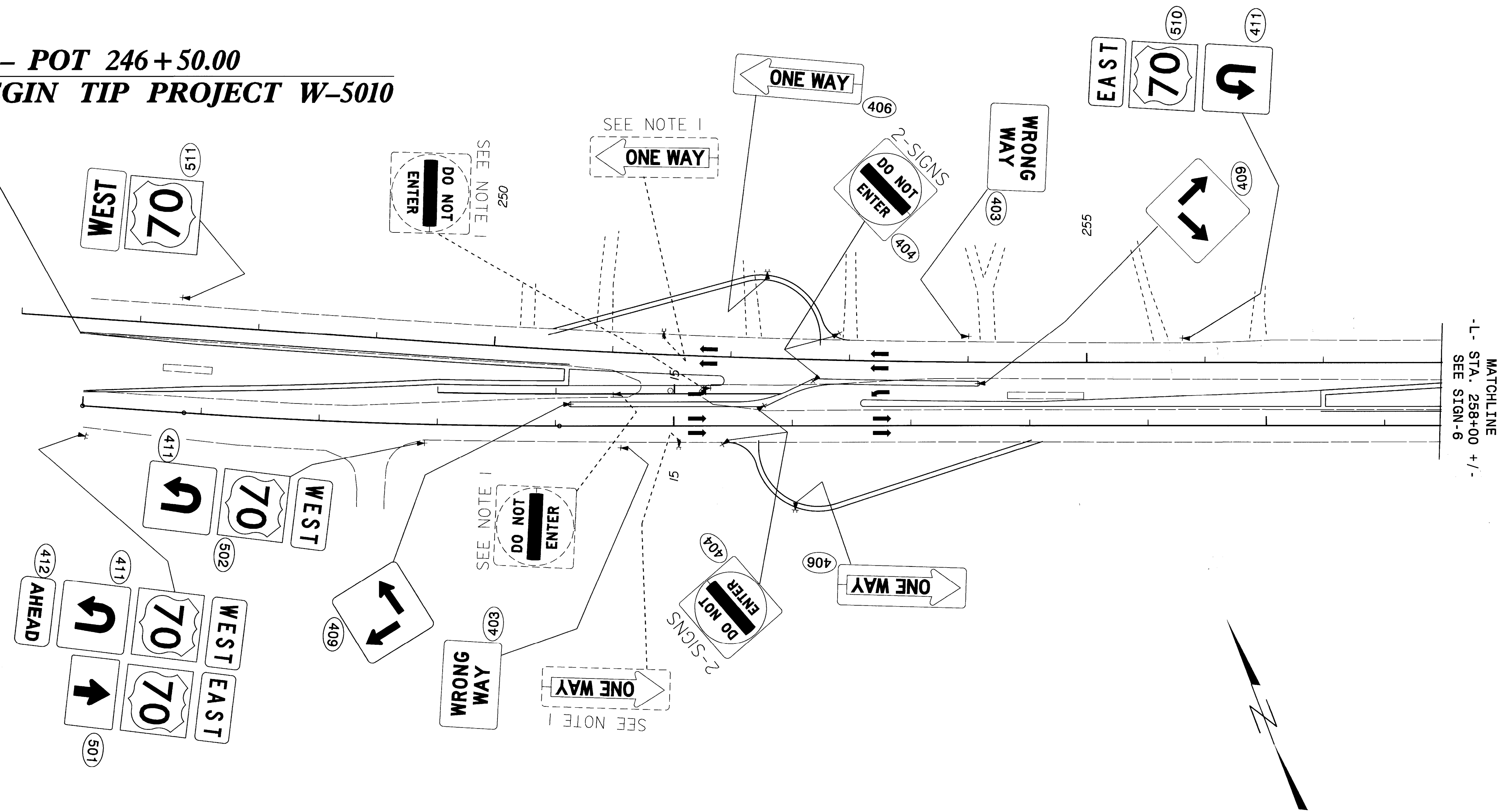
SIGN NUMBER: 411 TYPE: E QUANTITY: 6	
--	---

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
SPECIAL	24	1/2	3/4	1/2	6-3/8	3-1/8	3-1/8	7-1/2	2 13/16	1-7/8	5/8	6-1/4	3-5/8

COLORS
ARROW AND BORDER - BLACK
BACKGROUND - WHITE

TIP NO. W-5010	SHEET NO. SIGN-5
APPROVED: <i>[Signature]</i>	
DATE: 10-5-10	
SEAL	

**-L- POT 246+50.00
BEGIN TIP PROJECT W-5010**



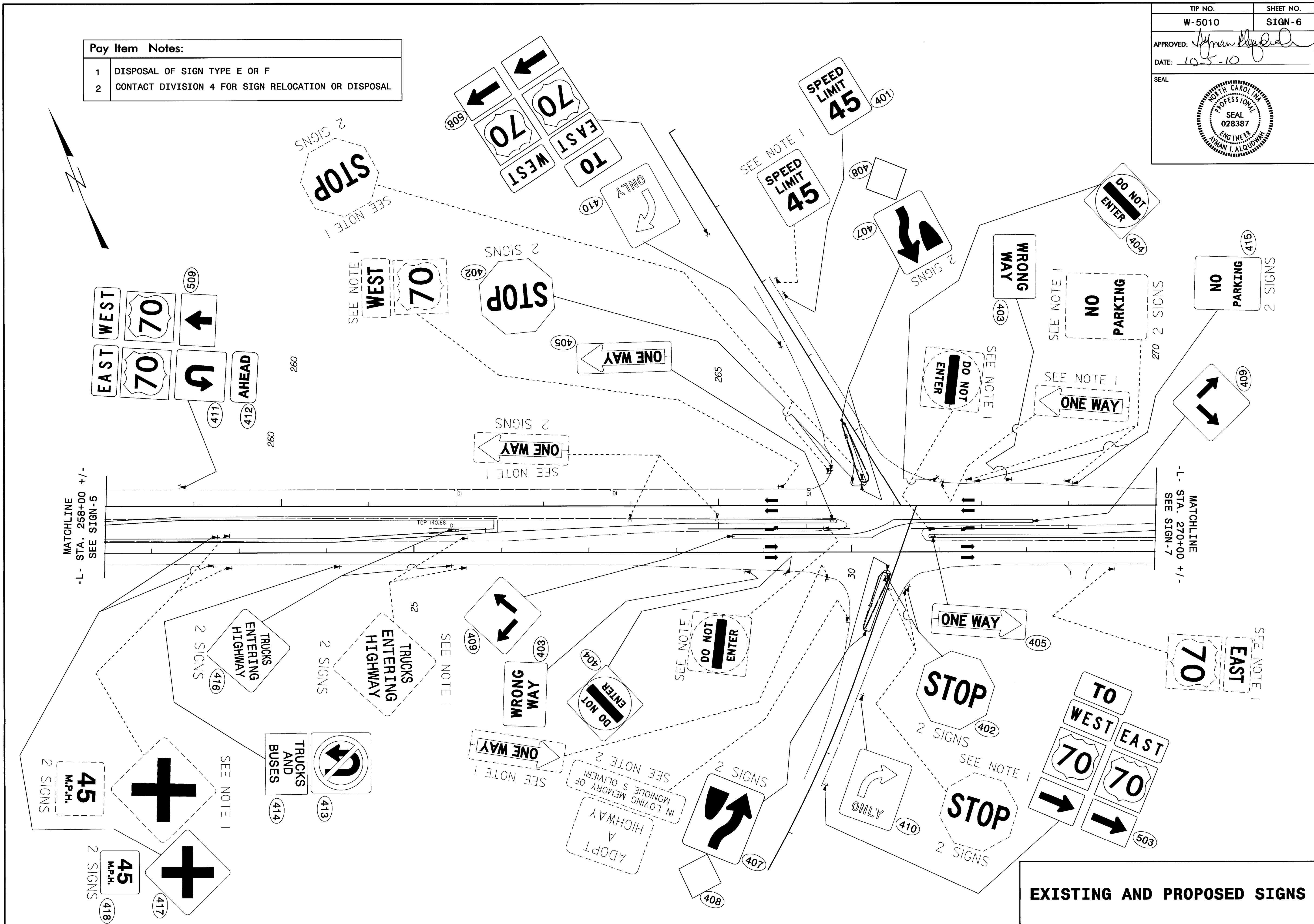
Pay Item Notes:

1	DISPOSAL OF SIGN TYPE E OR F
2	CONTACT DIVISION 4 FOR SIGN RELOCATION OR DISPOSAL


EXISTING AND PROPOSED SIGNS

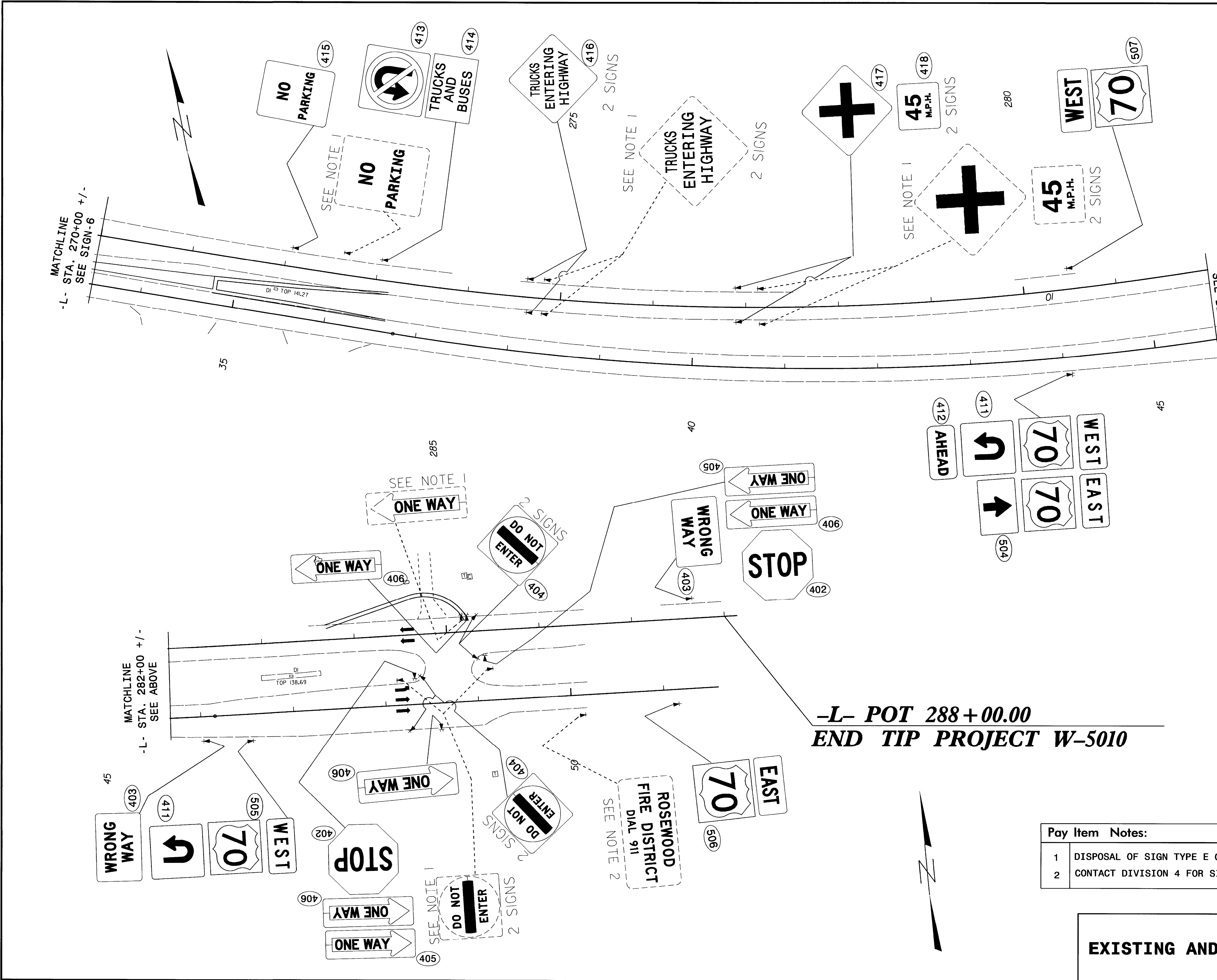
Pay Item Notes:

1	DISPOSAL OF SIGN TYPE E OR F
2	CONTACT DIVISION 4 FOR SIGN RELOCATION OR DISPOSAL



EXISTING AND PROPOSED SIGNS

TIP NO. W-5010	SHEET NO. SIGN-7
APPROVED: <i>[Signature]</i>	
DATE: 10-5-10	
SEAL	
	



**-L- POT 288+00.00
END TIP PROJECT W-5010**

Pay Item Notes:	
1	DISPOSAL OF SIGN TYPE E OR F
2	CONTACT DIVISION 4 FOR SIGN RELOCATION OR DISPOSAL

EXISTING AND PROPOSED SIGNS

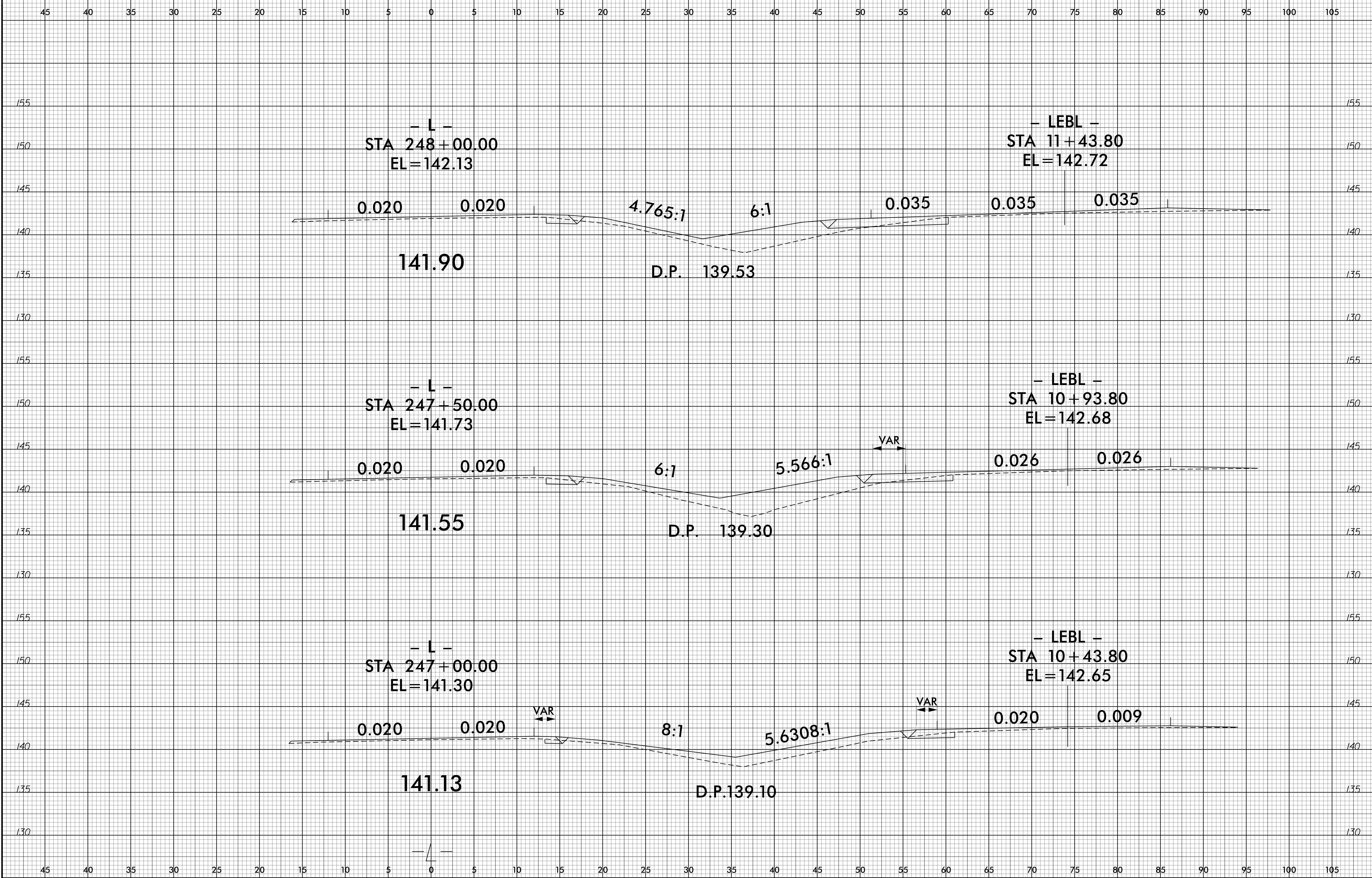
**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CROSS-SECTION SUMMARY**

PROJ. REFERENCE NO. W-5010	SHEET NO. X-1A
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Approximate quantities only. Unclassified excavation, borrow excavation, shoulder borrow, fine grading, clearing and grubbing and breaking of existing pavement will be paid for at the contract lump sum price

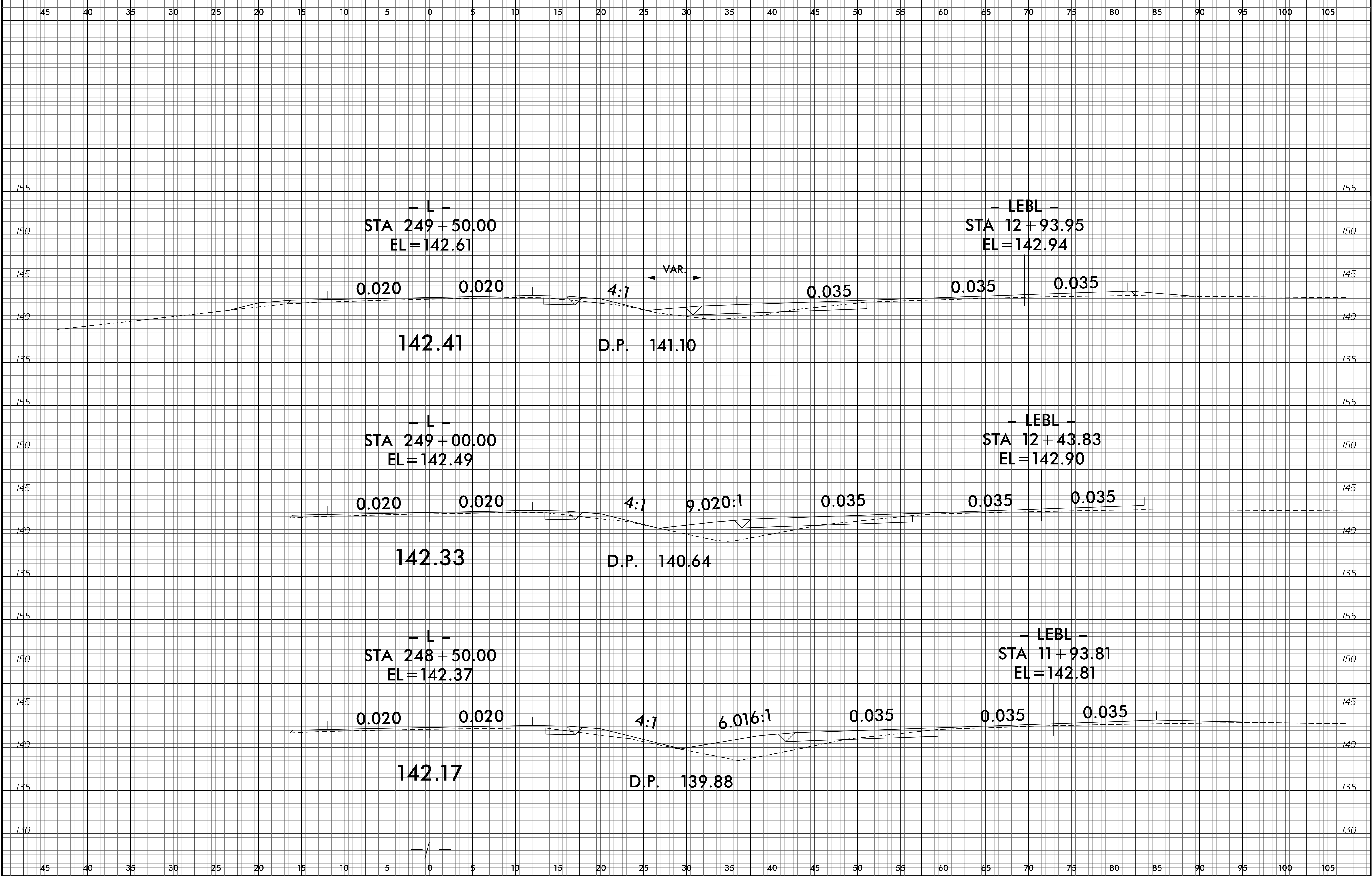
STATION LLT	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)		STATION LLT	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)		STATION LMED	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)		STATION LMED	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
247+00				273+00		7		247+00	3	29		273+00	6	22	
247+50				273+50				247+50	8	73					
248+00				274+00				248+00	10	79					
248+50				274+50				248+50	11	62					
249+00				275+00				249+00	12	49					
249+50		2		275+50				249+50	12	30					
250+00		4		276+00				250+00	14	11					
250+50	24	7		276+50				250+50	13	5					
251+00	50	22		277+00				251+00	9	3					
251+50	31	114		277+50				251+50	3	1					
252+00	28	158		278+00				252+00	1	7					
252+50	50	115		278+50				252+50	2	17					
253+00	27	54		279+00				253+00	3	21					
253+50		6		279+50				253+50	3	25					
254+00		8		280+00				254+00	3	30					
254+50		6		280+50				254+50	3	35					
255+00		5		281+00				255+00	2	39					
255+50		3		281+50				255+50	2	38					
256+00		2		282+00				256+00	2	34					
256+50		2		282+50				256+50	2	33					
257+00				283+00				257+00	2	38					
257+50				283+50				257+50	2	40					
258+00				284+00	7	15		258+00	2	38					
258+50				284+50	16	44		258+50	3	36					
259+00				285+00	16	59		259+00	3	33					
259+50				285+50	7	30		259+50	3	29					
260+00								260+00	4	27					
260+50								260+50	4	28					
261+00								261+00	3	32					
261+50								261+50	3	38					
262+00								262+00	3	50					
262+50								262+50	3	46					
263+00								263+00	2	31					
263+50								263+50	2	28					
264+00								264+00	2	23					
264+50								264+50	2	19					
265+00								265+00	2	19					
265+50								265+50	2	18					
266+00								266+00	3	8					
266+50								266+50	2	1					
267+00		4						267+00							
267+50		7						267+50		7					
268+00		7						268+00		13					
268+50		7						268+50	1	9					
269+00		7						269+00	1	8					
269+50		7						269+50	1	12					
270+00		7						270+00	1	14					
270+50		7						270+50	2	17					
271+00		7						271+00	3	22					
271+50		7						271+50	4	33					
272+00		7						272+00	5	45					
272+50		7						272+50	6	36					

8/23/99



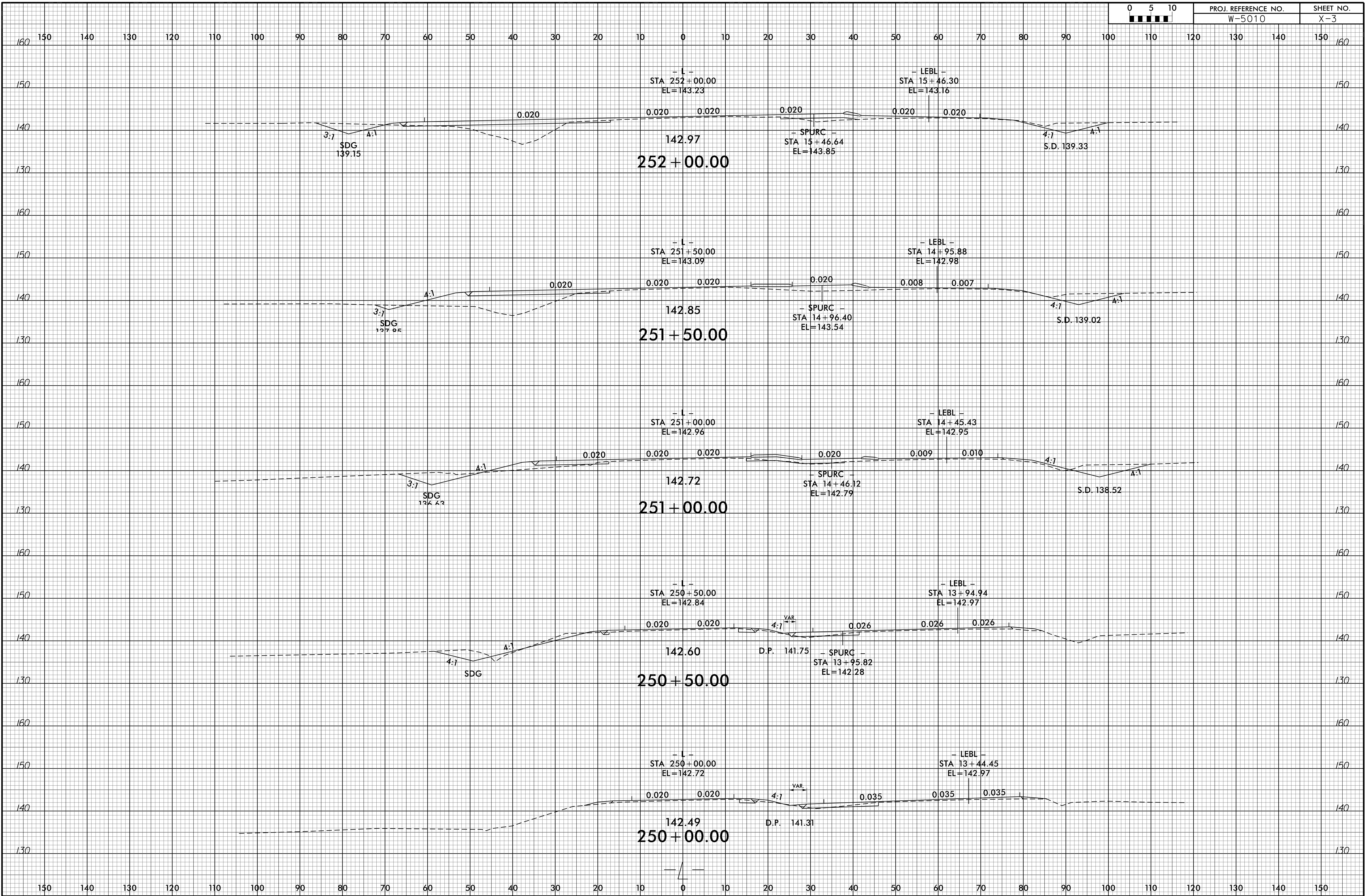
17-NOV-2010 15:36
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8/23/99



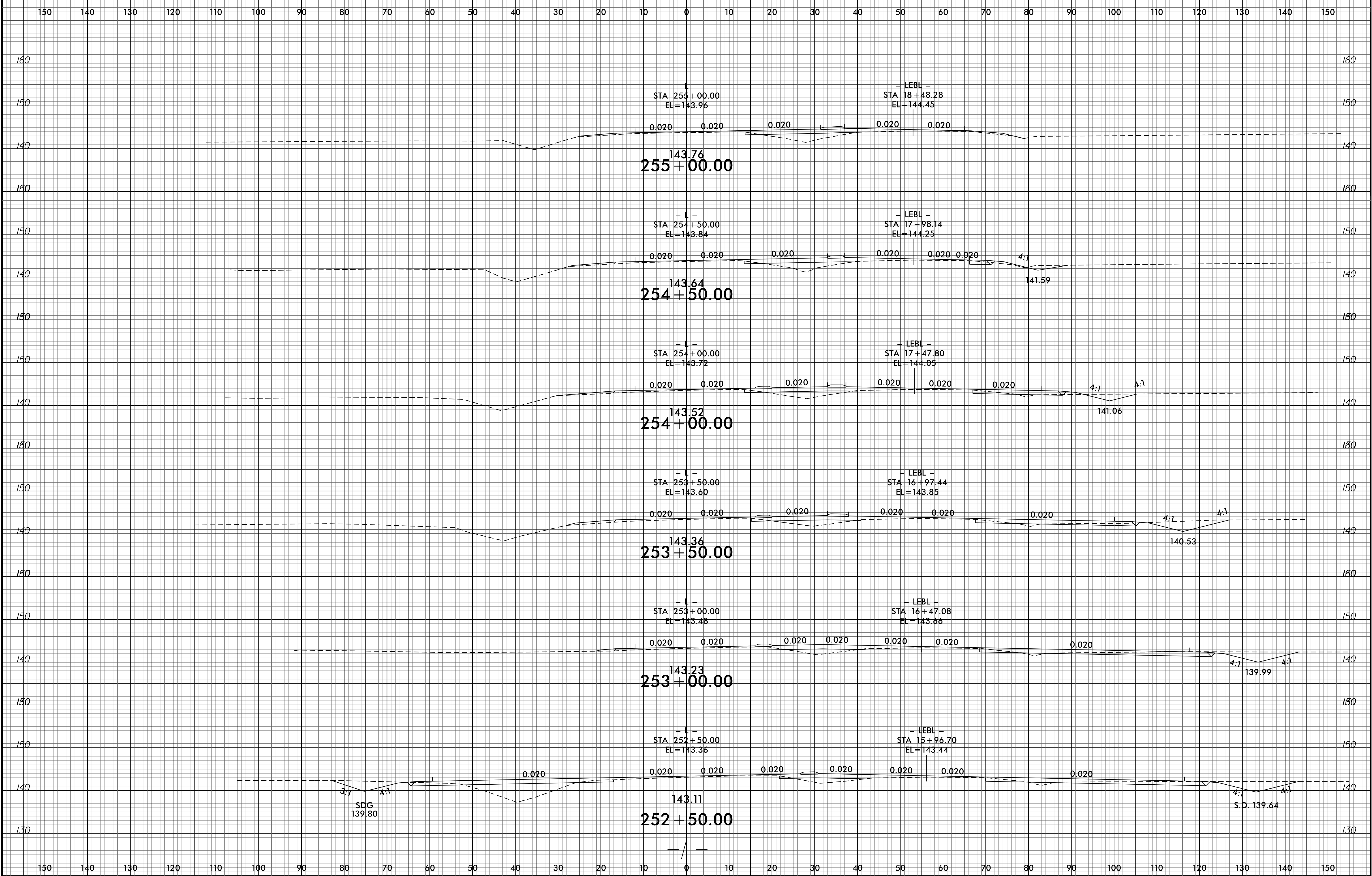
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8/23/99

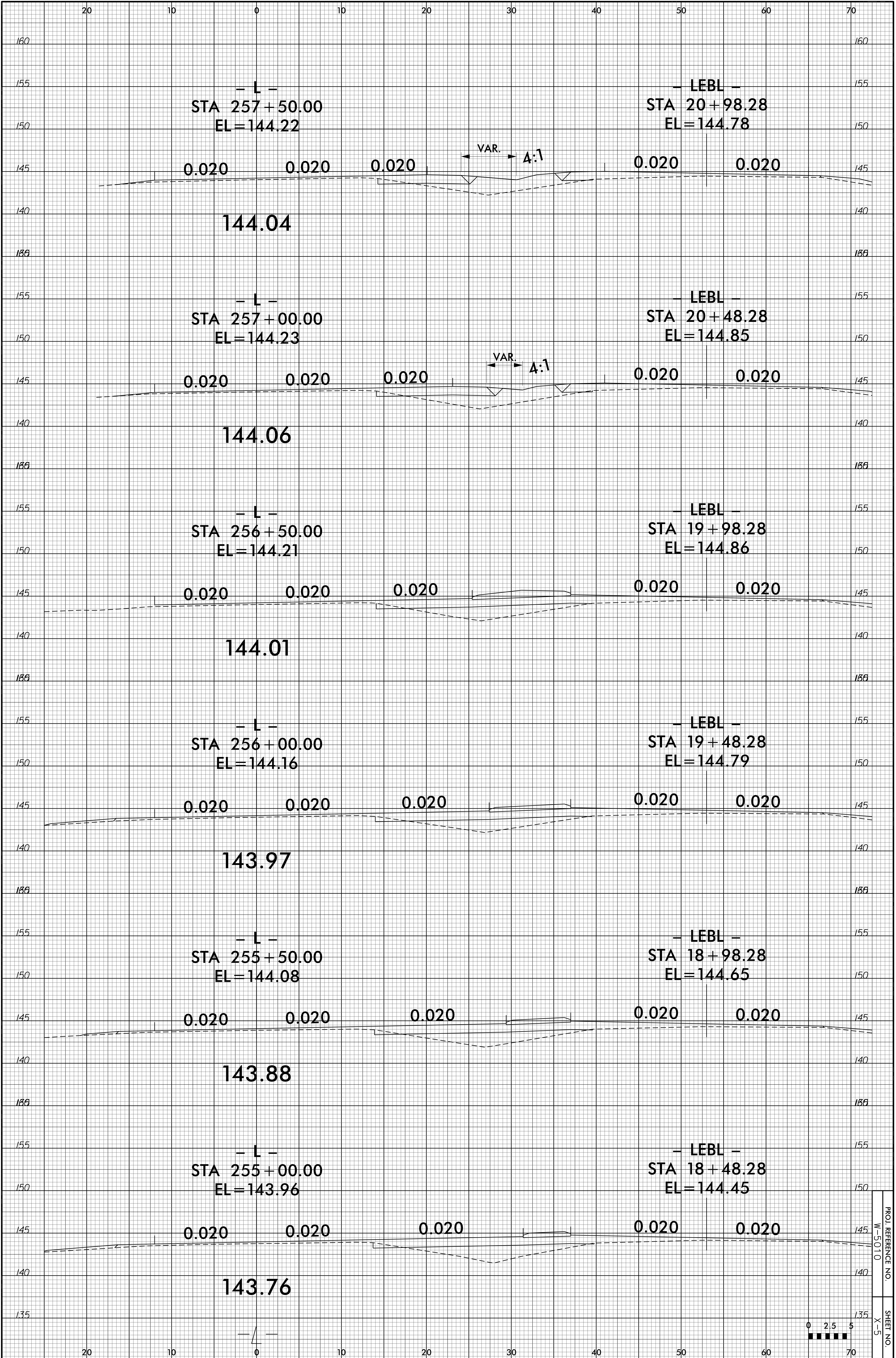


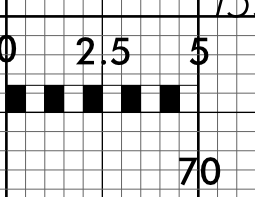
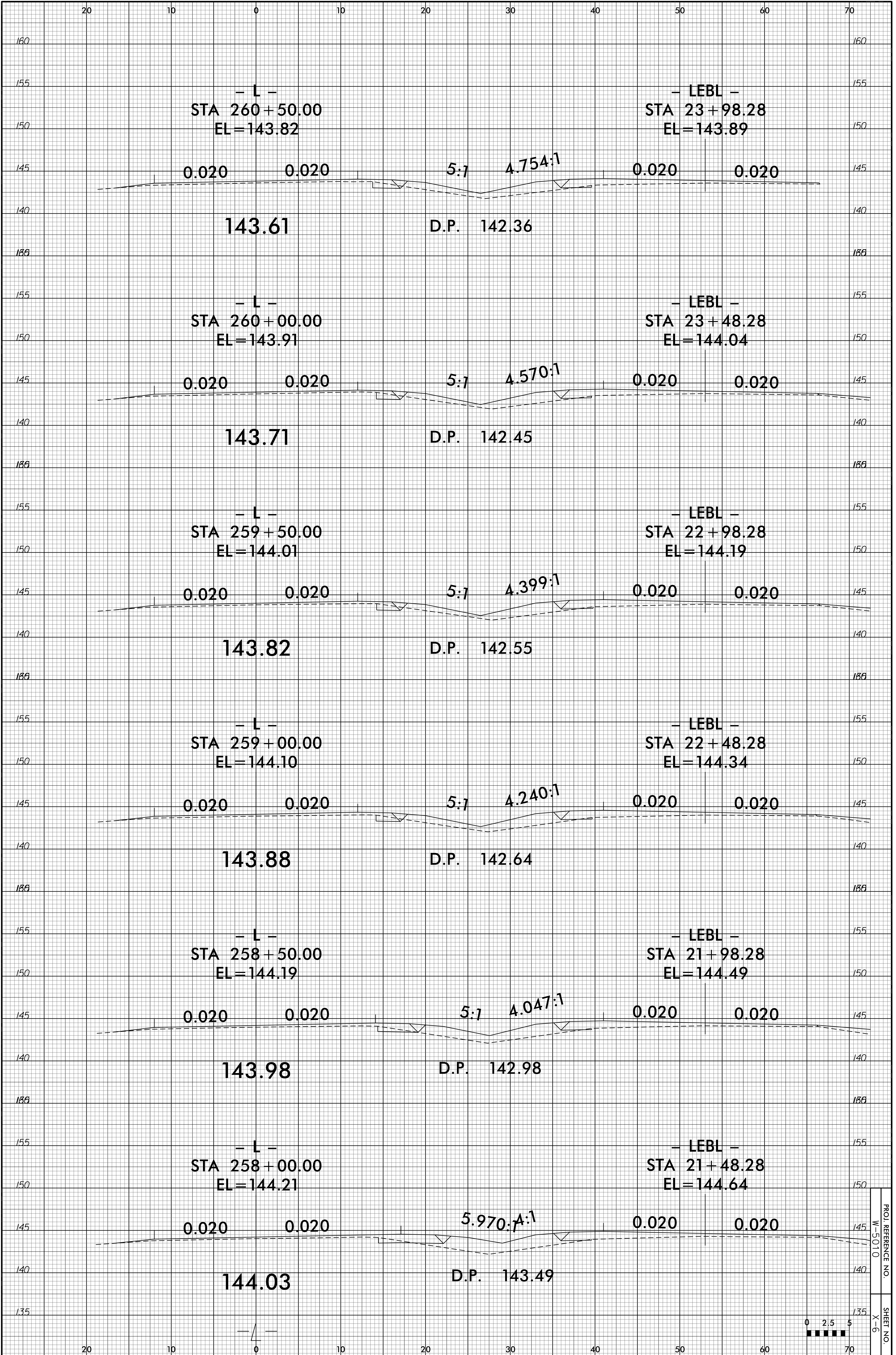
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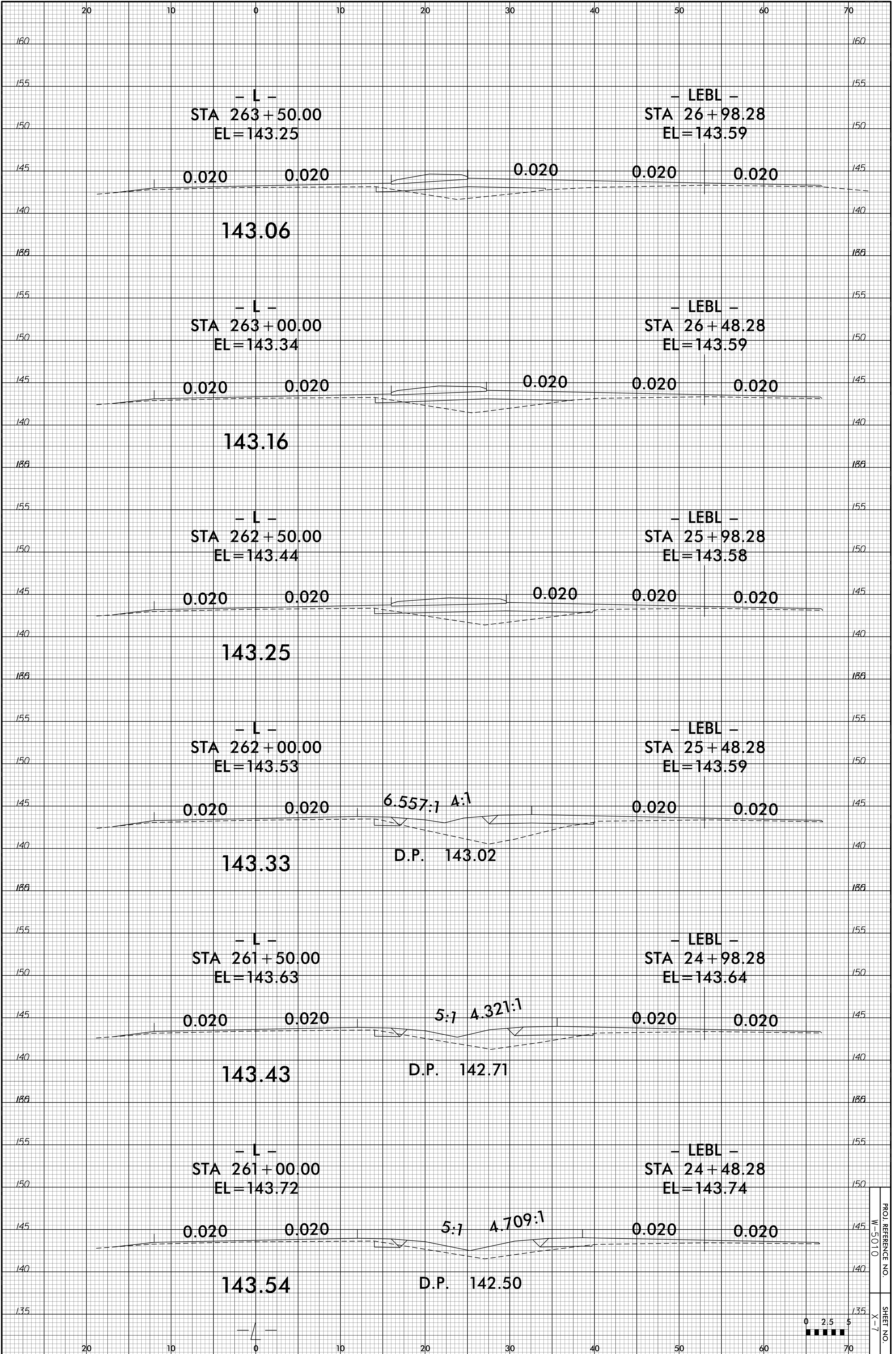
8/23/99

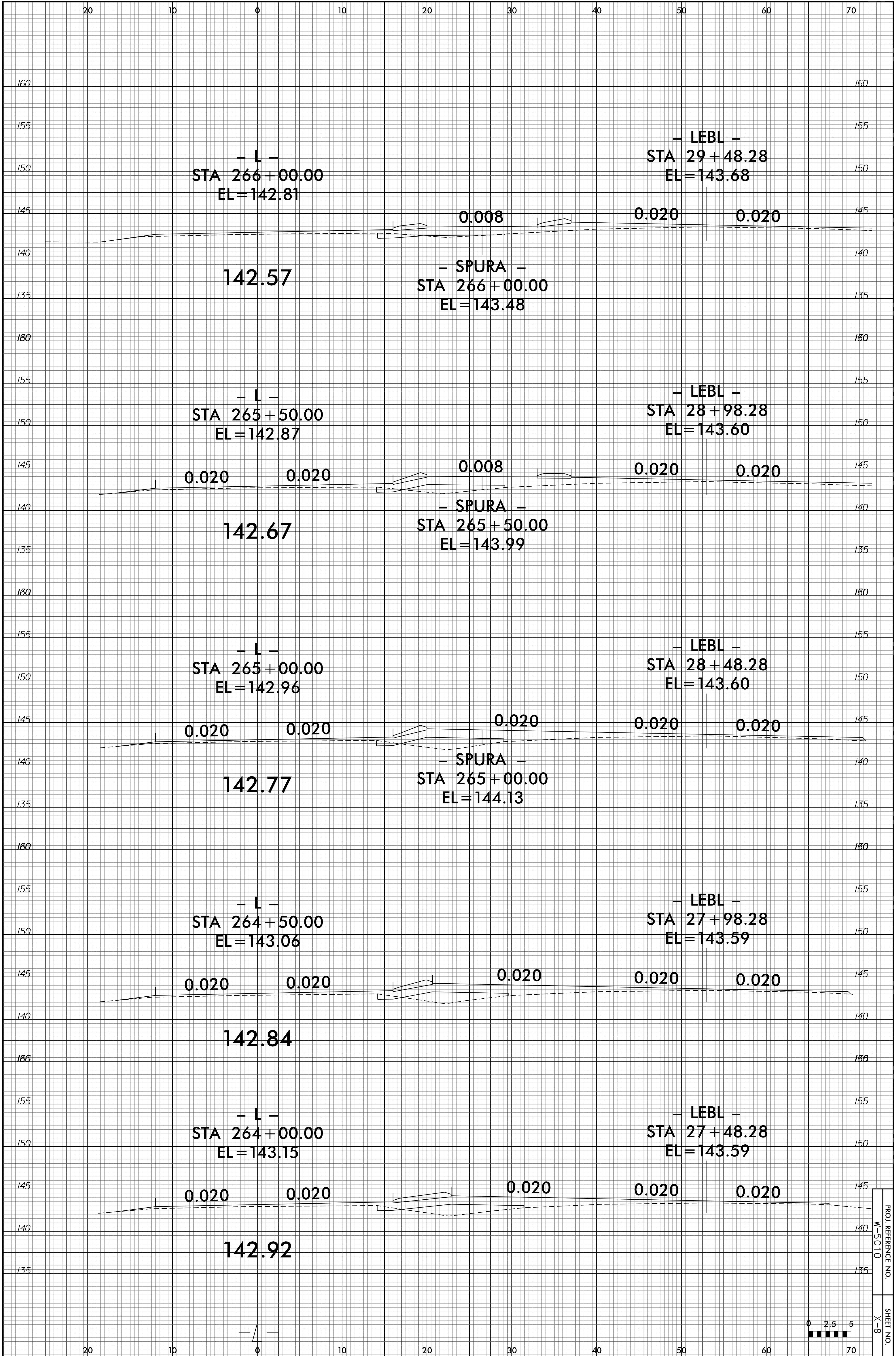


17-NOV-2010 15:36 R:\SSC\W2010_dgc4_xpl.1.3-4.dgn \$\$\$USERNAME\$\$\$

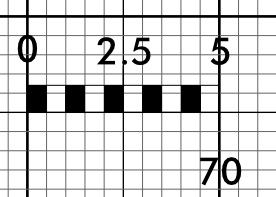


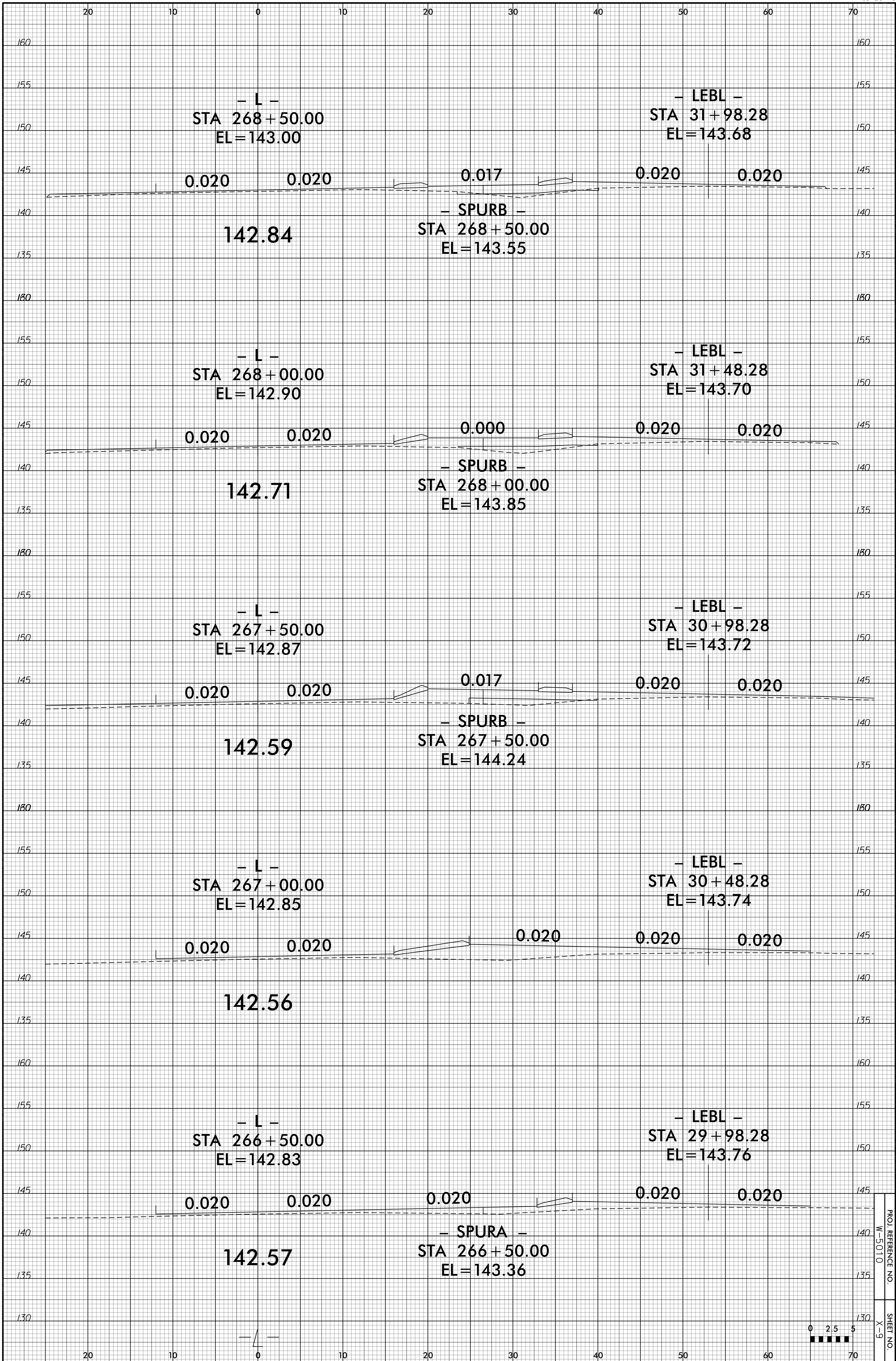




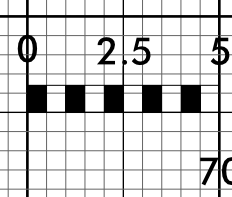


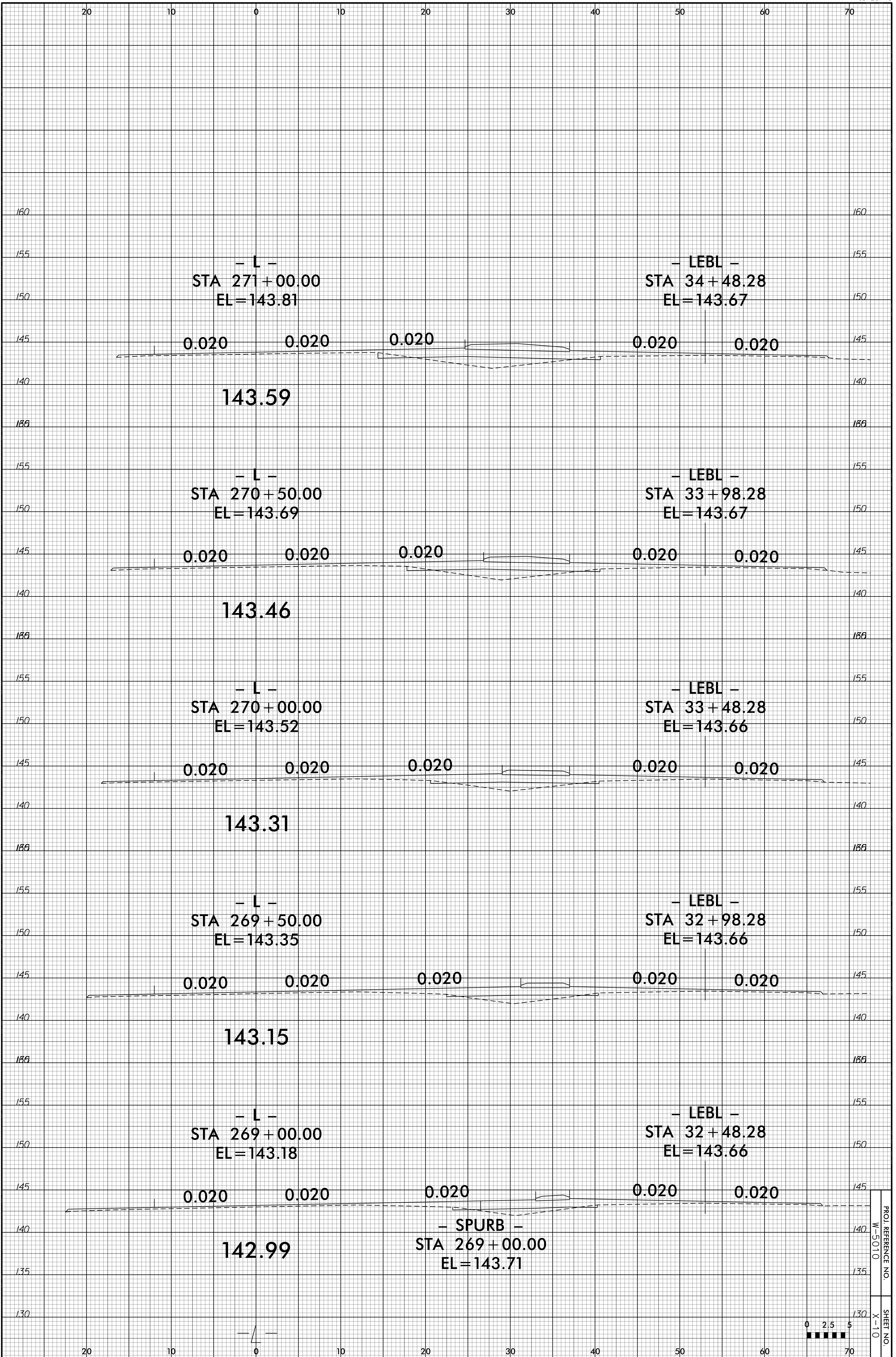
PROJ. REFERENCE NO. W-5010
SHEET NO. X-8

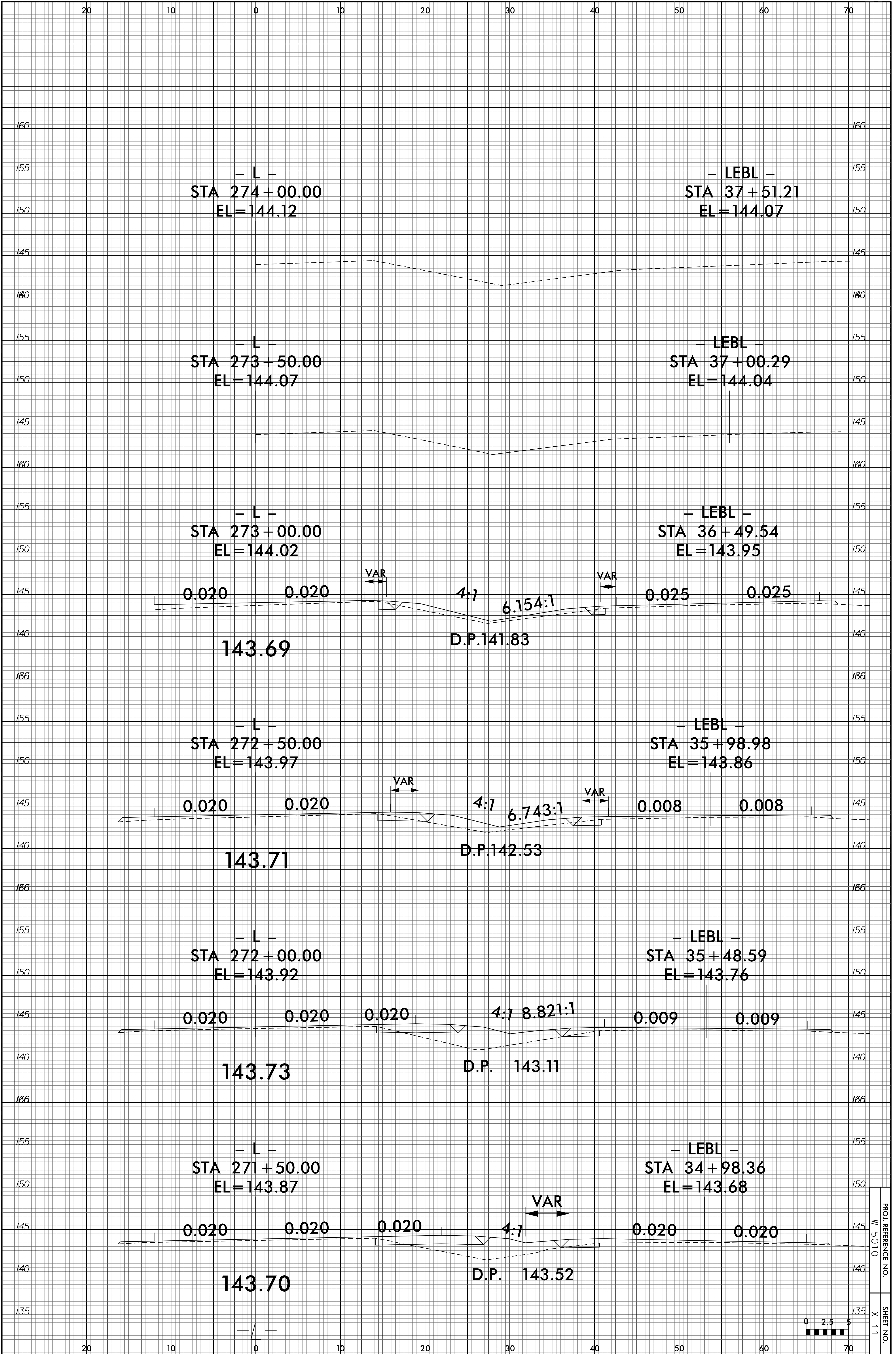




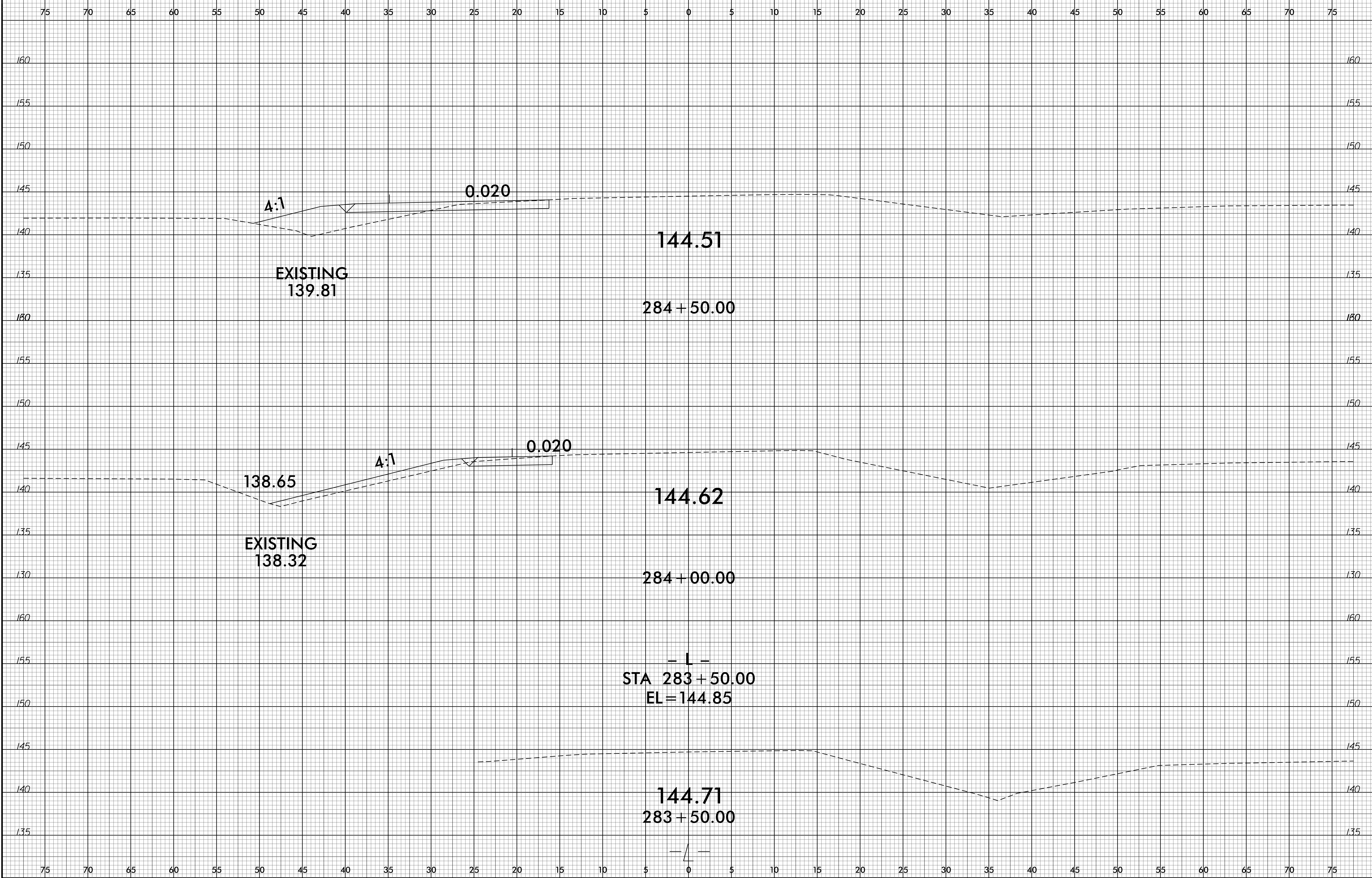
PROJ. REFERENCE NO. W-5010
SHEET NO. X-9





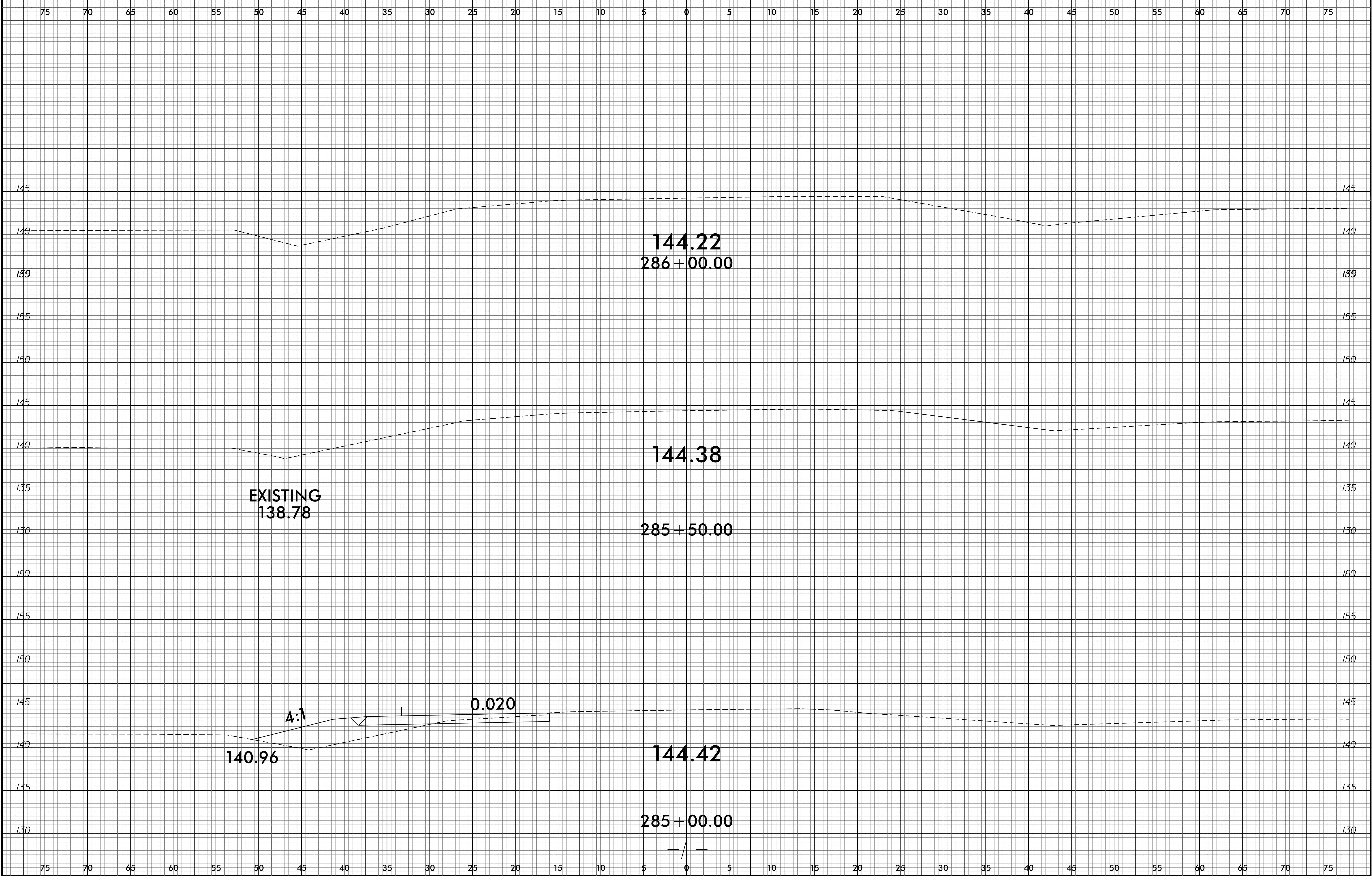


8/23/99



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8/23/99



17-NOV-2010 15:37
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