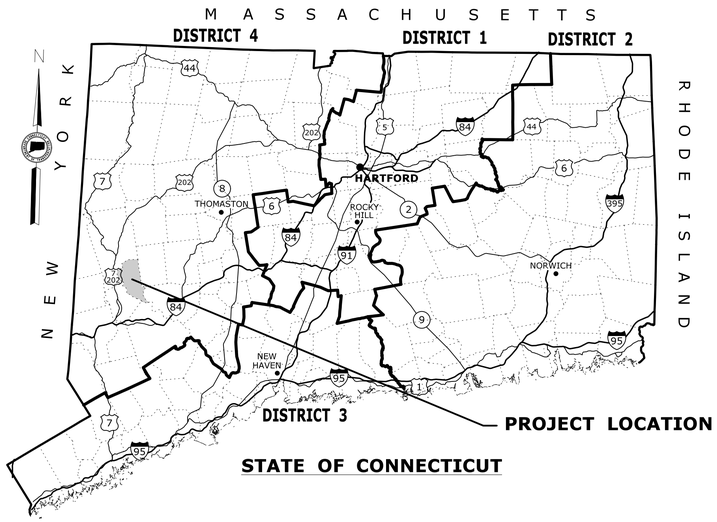
CONNECTICUT DEPARTMENT OF TRANSPORTATION

Plans For

SAFETY IMPROVEMENTS ON ROUTE 133

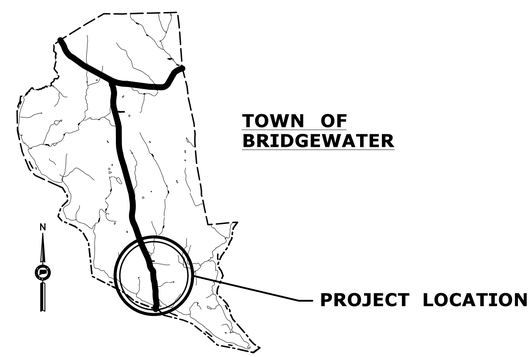
Town of

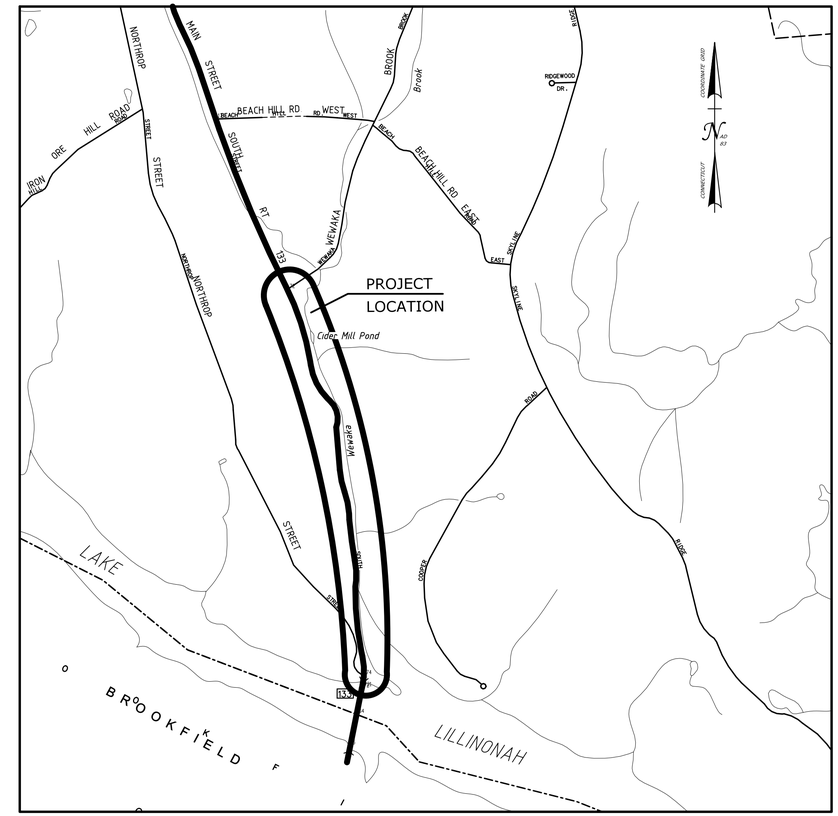
BRIDGEWATER



STATE OF CONNECTICUT

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
Route 133	STATE	5250 FEET





LOCATION PLAN

NOT TO SCALE

GENERAL NOTES:

1. FEDERAL AID PROJECT NO.: 0133 (009)
2. CONSTRUCTION SPECIFICATIONS:
   Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, dated 2004; Supplemental Specifications, dated July 2015; and Special Provisions
3. 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM SYSTEM N.A.D. 1983
4. VERTICAL DATUM BASED ON NAVD 1988

DISCLAIMER

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICAL SOURCES WITHIN THE DEPARTMENT.

PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE DEPARTMENT TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

LIST OF SUBSETS

SUBSET NO.	SUBSET TITLE	*SUBSET SHEET COUNT
01	GENERAL	3
02	REVISIONS	1
03	HIGHWAYS	263
04	STRUCTURES	11
05	TRAFFIC	15
	CTDOT HIGHWAY STANDARDS	17
	CTDOT TRAFFIC STANDARDS	7

*THE INITIAL SUBSET SHEET COUNT DOES NOT INCLUDE ADDENDUMS AND CHANGE ORDERS

LIST OF DRAWINGS
SUBSET 01 - GENERAL

DRAWING TITLE	DRAWING NO.
TITLE SHEET	G-1
ESTIMATE SHEET	EST-01
ESTIMATE SHEET	EST-02

STANDARD CONVENTIONS

North Arrow W/No. Coor.
Edge Of Road
Concrete Pavement
Dirt Road
B.C.L.C.
Granite Curb
Guide Rail
Concrete Median Barrier
Bit. Walk
Conc. Sidewalk
Railroad Tracks
Grid Arrow
Limit Of Marsh
Stone Wall
Ledge Outcrop
Inland Wetland Limits
STATE LINE
Power Line
Swamp
Building
Transmission Tower
Chain Link Fence
Rustic Fence
Pipe Fence
Board Fence
Water Edge
Stream
Ditch
TOWN LINE
Riprap
Hedge Row
Tree Line
Shrub
Evergreen Tree
Deciduous Tree
Retaining Wall
Highway Line
Street Line
Property Line
Lot Line
Easement Line

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

SUBMITTED BY: TRANSPORTATION PRINCIPAL ENGINEER HIGHWAY DESIGN - WILLIAM W. BRITNELL, P.E.

APPROVAL RECOMMENDED BY: MANAGER OF HIGHWAY DESIGN - TIMOTHY M. WILSON, P.E.

APPROVED BY: TRANSPORTATION ENGINEERING ADMINISTRATOR - SCOTT A. HILL, P.E.

Plans For
SAFETY IMPROVEMENTS ON ROUTE 133

Town(s)/City
BRIDGEWATER

STATE PROJECT NO.
0016-0098

DRAWING NO.
G-1

SHEET NO.
01.01

EARTHWORK

ITEM NUMBER	0202000	0202100	0202200	0202250	0205001	0205002	0205003	0205004	0205005	0205006	0205008
	P	P A	P	P	P	P	P	P	P	P	P
ITEM	EARTH EXCAVATION	ROCK EXCAVATION	CHANNEL EXCAVATION-EARTH	CHANNEL EXCAVATION-ROCK	TRENCH EXCAVATION 0'-4' DEEP	ROCK IN TRENCH EXCAVATION 0'-4' DEEP	TRENCH EXCAVATION 0'-10' DEEP	ROCK IN TRENCH EXCAVATION 0'-10' DEEP	TRENCH EXCAVATION 0'-15' DEEP	ROCK IN TRENCH EXCAVATION 0'-15' DEEP	ROCK IN TRENCH EXCAVATION 0'-20' DEEP
UNIT	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
SUBTOTAL	25601	2640	456	114	249	154	1229	461	153	42	36
SHRINKAGE	2560.1										
AVAILABLE FILL	23041										
FILL REQUIRED	557										
SURPLUS	22484										
SUBTOTAL	25601	2640	456	114	249	154	1229	461	153	42	36
UNASSIGNED	1280	132	22	6	16	11	61	24	12	3	4
TOTAL	26881	2772	478	120	265	165	1290	485	165	45	40

ROADWAY ITEMS

ITEM NUMBER	0201001	0202529	0204151	0209001	0212000	0213100	0219001	0304002	0404100	0406125	0406171
	P	P	P A	P	P	P	P	P	P A	P A	P
ITEM	CLEARING AND GRUBBING	CUT BITUMINOUS CONCRETE PAVEMENT	HANDLING WATER	FORMATION OF SUBGRADE	SUBBASE	GRANULAR FILL	SEDIMENTATION CONTROL SYSTEM	PROCESSED AGGREGATE BASE	BITUMINOUS CONCRETE PATCHING - FULL DEPTH	BITUMINOUS CONCRETE SURFACE PATCH	HMA S0.5
UNIT	LS	L.F.	LS	S.Y.	C.Y.	C.Y.	L.F.	C.Y.	S.Y.	S.Y.	TON
SUBTOTAL	LS	615	LS	8836	4424	234	6408	2547	25	15	4146
SHRINKAGE											
AVAILABLE FILL											
FILL REQUIRED											
SURPLUS											
SUBTOTAL	LS	615	LS	8836	4424	234	6408	2547	25	15	4146
UNASSIGNED	LS	30	LS	444	221	11	322	128	0	0	209
TOTAL	LS	645	LS	9280	4645	245	6730	2675	25	15	4355

ITEM NUMBER	0406173	0406236	0406275	0406600	0507001	0507006	0507021	0507022	0507201	0507222	0507598
	P	P	P A	P	P	P	P	P	P	P	P A
ITEM	HMA S0.25	MATERIAL FOR TACK COAT	FINE MILLING OF BITUMINOUS CONCRETE (0" TO 4")	MATERIAL TRANSFER VEHICLE	TYPE "C" CATCH BASIN	TYPE "C" CATCH BASIN TOP	TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I	TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II	TYPE "C-L" CATCH BASIN	TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II	TRASH RACK
UNIT	TON	GAL	S.Y.	TON	EA.	EA.	EA.	EA.	EA.	EA.	EA.
SUBTOTAL	367	4816	6387	4513	6	1	2	1	5	19	8
SHRINKAGE											
AVAILABLE FILL											
FILL REQUIRED											
SURPLUS											
SUBTOTAL	367	4816	6387	4513	6	1	2	1	5	19	8
UNASSIGNED	18	239	323	227	0	0	0	0	0	0	0
TOTAL	385	5055	6710	4740	6	1	2	1	5	19	8

ITEM NUMBER	0507601	0507771	0507781	0601000	0651001	0651012	0651013	0651015	0651019	0651513	0651514	0652011	0653100	0653101	0703011
	P	P	P	P	P	P	P	P	P	P	P	P	P A	P A	P A
ITEM	MANHOLE	RESET CATCH BASIN	RESET MANHOLE	CLASS "A" CONCRETE	BEDDING MATERIAL	15" R.C. PIPE	18" R.C. PIPE	24" R.C. PIPE	36" R.C. PIPE	15" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	24" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	18" R.C. CULVERT END	CLEAN EXISTING CULVERT - 12" TO 42" DIAMETER	CLEAN EXISTING CULVERT - GREATER THAN 42" DIAMETER	INTERMEDIATE RIPRAP
UNIT	EA.	EA.	EA.	C.Y.	C.Y.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	L.F.	L.F.	C.Y.
SUBTOTAL	5	1	6	83	179	633	346	271	152	68	398	1	124	67	671
SHRINKAGE															
AVAILABLE FILL															
FILL REQUIRED															
SURPLUS															
SUBTOTAL	5	1	6	83	179	633	346	271	152	68	398	1	124	67	671
UNASSIGNED	0	0	0	2	11	31	14	17	8	2	22	0	6	3	34
TOTAL	5	1	6	85	190	664	360	288	160	70	420	1	130	70	705

LANDSCAPING ITEMS

ITEM NUMBER	0703012	0728030	0751711	0751801	0755014	0815001	0910600	0910602	0912504	0922501	0925201
	P	P	P	P	P	P	P	P	P	P	P
ITEM	MODIFIED RIPRAP	NO.3 CRUSHED STONE	6" UNDERDRAIN	6" SLOPE UNDERDRAIN	GEOTEXTILE (SEPARATION - HIGH SURVIVABILITY)	BITUMINOUS CONCRETE LIP CURBING	8" X 6" BOX BEAM GUIDE RAILING	8" X 6" BOX BEAM GUIDE RAILING END ASSEMBLY	REMOVE TWO-CABLE GUIDE RAILING	BITUMINOUS CONCRETE DRIVEWAY	PAVEMENT FOR RAILING
UNIT	C.Y.	C.F.	L.F.	L.F.	S.Y.	L.F.	L.F.	EA.	L.F.	S.Y.	S.Y.
SUBTOTAL	208	26	1109	4420	657	1900	6035	10	4520	512	1173
SUBTOTAL	208	26	1109	4420	657	1900	6035	10	4520	512	1173
UNASSIGNED	12	4	56	220	33	95	300	0	226	28	57
TOTAL	220	30	1165	4640	690	1995	6335	10	4746	540	1230

ITEM NUMBER	0944000	0950005	0950010	0969030	0969062	0975004	0980001
	P	P	P	P A	P A	P	P A
ITEM	FURNISHING AND PLACING TOPSOIL	TURF ESTABLISHMENT	TEMPORARY SEEDING	PROJECT COORDINATOR (MINIMUM BID)	CONSTRUCTION FIELD OFFICE, MEDIUM	MOBILIZATION AND PROJECT CLOSEOUT	CONSTRUCTION STAKING
UNIT	S.Y.	S.Y.	S.Y.	LS	MO.	LS	LS
SUBTOTAL	11149	11149	18133	LS	13	LS	LS
SUBTOTAL	11149	11149	18133	LS	13	LS	LS
UNASSIGNED	556	556	907	LS	0	LS	LS
TOTAL	11705	11705	19040	LS	13	LS	LS

ITEM NUMBER	0949059	0949083	0949086	0949097	0949113	0949142	0949149	0949150	0949175	0949304	0949410
	P	P	P	P	P	P	P	P	P	P	P
ITEM	AROMIA ARBUTIFOLIA RED CHOKEBERRY 2'- 3' HT. B.B.	PINUS MARIANA, BLACK SPRUCE, 18" - 24" HT. B.R.	CLETHRA ALNIFOLIA SUMMERSWEET 2'- 3' HT. B.B.	AMELANCHIER CANADENSIS, SHADBLOW SERVICEBERRY 18"-24" HT. B.B.	CORNUS RACEMOSA GRAY DOGWOOD 2'-3' HT. B.B.	QUERCUS PALUSTRIS, PIN OAK, 24" - 36" HT. NO.3 CONTAINER	QUERCUS RUBRA, NORTHERN RED OAK, 24" - 36" HT. NO. 3 CONTAINER	QUERCUS BICOLOR, SWAMP WHITE OAK 2'-3' HT. CONTAINER	BETULA BIGRA RIVER BIRCH (1 GAL.)	BETULA ALLEGENIENSIS YELLOW BIRCH 2' - 3' HT. B.B.	RHUS AROMATICA FRAGRANT SUMAC 18"-24" HT. B.B.
UNIT	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
SUBTOTAL	27	12	18	1193	162	270	632	42	27	952	1150
SUBTOTAL	27	12	18	1193	162	270	632	42	27	952	1150
UNASSIGNED	0	0	0	0	0	0	0	0	0	0	0
TOTAL	27	12	18	1193	162	270	632	42	27	952	1150

ITEM NUMBER	0949432	0949513	0949523	0949682	0949736	0949814	0949828	0949844	0949876	0949957	0949977
	P A	P	P	P	P	P	P	P	P	P	P
ITEM	ROOT PRUNING	VIBURNUM CASSINOIDES WITHEROD VIBURNUM 15"- 18" HT. B.R.	VIBURNUM DENTATUM ARROWWOOD VIBURNUM 3'- 4' HT. B.B.	TSUGA CANADENSIS CANADA HEMLOCK 2'-3' HT. B.B.	PICEA GLAUCA, WHITE SPRUCE, 3' - 4' HT. B.B.	ALNUS INCANA, SPECKLED ALDER 2' - 3' HT. B.B.	ACER RUBRUM RED MAPLE 3'- 4' HT. WHIPS B.R.	ACER SACCHARUM SUGAR MAPLE 6' - 8' HT. WHIPS B.R.	CORNUS AMOMUM, SILKY DOGWOOD, 24" - 36" HT.	LIRIODENDRON TULIPIFERA TULIPTREE 1 3/4"- 2" CAL. B.B	QUERCUS PALUSTRIS PIN OAK 1 3/4"- 2" CAL. B.B.
UNIT	L.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
SUBTOTAL	400	45	36	79	79	18	69	632	372	79	85
SUBTOTAL	400	45	36	79	79	18	69	632	372	79	85
UNASSIGNED	0	0	0	0	0	0	0	0	0	0	0
TOTAL	400	45	36	79	79	18	69	632	372	79	85

ITEM NUMBER	0950013	0950016	0950040	0952051
	P A	P A	P A	P A
ITEM	EROSION CONTROL MATTING	WETLAND GRASS ESTABLISHMENT	CONSERVATION SEEDING FOR SLOPES	CONTROL AND REMOVAL OF INVASIVE VEGETATION
UNIT	S.Y.	S.Y.	S.Y.	S.Y.
SUBTOTAL	10168	560	20050	560
SUBTOTAL	10168	560	20050	560
UNASSIGNED	507	0	0	0
TOTAL	10675	560	20050	560

STRUCTURE ITEMS

ITEM NUMBER	0203100	0601651	0913992
	P	P A	P A
ITEM	STRUCTURE EXCAVATION-ROCK (COMPLETE)	RETAINING WALL (SITE NO. 1)	DECORATIVE FENCE
UNIT	C.Y.	LS	L.F.
SUBTOTAL	4396	LS	756
SUBTOTAL	4396	LS	756
UNASSIGNED	0	LS	0
TOTAL	4396	LS	756

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/23/2016

DESIGNER/DRAFTER: EBS

CHECKED BY: JDP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_EST-01.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: ESTIMATE SHEET

PROJECT NO. 16-98

DRAWING NO. EST-01

SHEET NO. 01.02

FEDERAL AID PARTICIPATING

PROJECT NO. 16-98 / TRAFFIC ITEMS	0406314A 80 MIL PAVEMENT MARKING GROVE 5" WIDE	0947252A RUBBER SPEED CUSHION	0970007A TRAFFICPERSON (UNIFORMED FLAGGER)	0971001A MAINTENANCE AND PROTECTION OF TRAFFIC	0976002 BARRICADE WARNING LIGHTS - HIGH INTENSITY	0978002 TRAFFIC DRUM	0979003 CONSTRUCTION BARRICADE - TYPE III	0981100 42" TRAFFIC CONE	1131002A REMOTE CONTROL CHANGEABLE MESSAGE SIGN	1131006A REMOTE CONTROL CHANGEABLE MESSAGE SIGN WITH RADAR	1208931 SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)	1208932 SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING)	1209114 HOT-APPLIED PAINTED PAVEMENT MARKINGS 4" YELLOW	1209124 HOT-APPLIED PAINTED PAVEMENT MARKINGS 4" WHITE	1209131 HOT-APPLIED PAINTED LEGEND, ARROWS AND MARKINGS	1210101A 4" WHITE - EPOXY RESIN PAVEMENT MARKINGS	1210102A 4" YELLOW - EPOXY RESIN PAVEMENT MARKINGS	1210105A EPOXY RESIN PAVEMENT MARKINGS - SYMBOLS & LEGENDS	1211001 REMOVAL OF PAVEMENT MARKINGS	1212001 TEMPORARY PLASTIC PAVEMENT PAVEMENT MARKINGS TAPE - 4" YELLOW	1212002 TEMPORARY PLASTIC PAVEMENT PAVEMENT MARKINGS TAPE - 4" WHITE	1214002 6" PREFORMED BLACK LINE MASK PAVEMENT MARKING TAPE	1220027 CONSTRUCTION SIGNS
	L.F.	S.F.	HR.	L.S.	DAY	EA.	EA.	EA.	DAY	DAY	S.F.	S.F.	L.F.	L.F.	S.F.	L.F.	L.F.	S.F.	S.F.	L.F.	L.F.	L.F.	S.F.
UNASSIGNED	21,000	325	400	L.S.	1,740	10	4	60	35	300	165	110	21,000	21,000	60	10,500	10,500	60	100	100	100	100	750
TOTAL	21,000	325	400	L.S.	1,740	10	4	60	35	300	165	110	21,000	21,000	60	10,500	10,500	60	100	100	100	100	750

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DIVISION OF TRAFFIC ENGINEERING C.A.D.D.

TRAFFIC DESIGN: O. FILS
ELECTRICAL DESIGN: N/A
DRAFTED: O. FILS
SCALE - NONE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**
SUBMITTED BY: N/A
APPROVED BY: N/A DATE:

PROJECT TITLE: **SAFETY IMPROVEMNTS ON ROUTE 133**

TOWN: **BRIDGEWATER**
DRAWING TITLE: DETAILED ESTIMATE SHEET

PROJECT NO. **16-98**
DRAWING NO. **EST-02**
SHEET NO. **01.03**

Filename: \\DOT-SDCENG07V\CTDOT_Projects$\016_0098_2007\Traffic\Estimate\TR_MSH_EST_0016-0098.dgn Plotted: 3/18/2015

REV. No.	SHEET No.	DATE mm/dd/yy	NEW	REV.	DEL.	DESCRIPTION	BY	REV. No.	SHEET No.	DATE mm/dd/yy	NEW	REV.	DEL.	DESCRIPTION	BY	REV. No.	SHEET No.	DATE mm/dd/yy	NEW	REV.	DEL.	DESCRIPTION	BY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 10/7/2011

DESIGNER/DRAFTER: EBS

CHECKED BY: JDP

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\New_Revision_Sheet.dgn

SIGNATURE BLOCK:
OFFICE OF ENGINEERING

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ON ROUTE 133

TOWN:
BRIDGEWATER

DRAWING TITLE:
ESTIMATE SHEET

PROJECT NO. **16-98**

DRAWING NO. **REV-1**

SHEET NO. 02.01

03 - HIGHWAY DESIGN SUBSET
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
HWY-01	HIGHWAY DESIGN SUBSET TITLE SHEET		
TYP-01 - TYP-02	TYPICAL SECTIONS SHEETS		
MDS-01 - MDS-06	MISCELLANEOUS DETAILS		
BOR-01	BORING LOGS		
IGP-01	INTERSECTION GRADING PLAN		
EXC-01 - EXC-06	EXISTING CONDITIONS SHEETS		
ALN-01 - ALN-06	ALIGNMENT & ROW PLAN SHEETS		
DRG-01 - DRG-06	DRAINAGE PLAN SHEETS		
PLN-01 - PLN-06	PLAN SHEETS		
SED-01 - SED-02	EROSION & SEDIMENTATION & WATER HANDLING PLAN SHEETS		
LDS-01 - LDS-03	LANDSCAPE PLAN SHEETS		
PRO-01 - PRO-07	PROFILE SHEETS		
XSC-001 - XSC-204	CROSS SECTION SHEETS - ROUTE 133		
XSC-DW1 - XSC-DW11	CROSS SECTION SHEETS - DRIVEWAYS		
UTL-A1 - UTL-A2	OVERHEAD UTILITY PLAN SHEETS		
UTL-B1 - UTL-B52	UNDERGROUND UTILITY PLAN SHEETS		

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted Date: 4/6/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_TSH_HWY.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

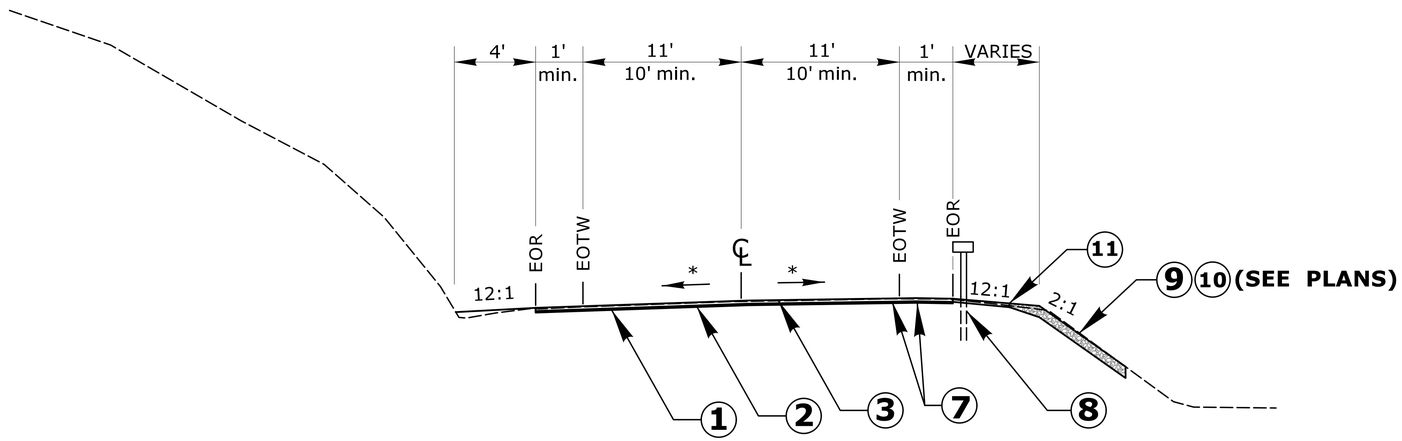
DRAWING TITLE: **HIGHWAY DESIGN SUBSET TITLE SHEET**

PROJECT NO. **16-98**

DRAWING NO. **HWY-01**

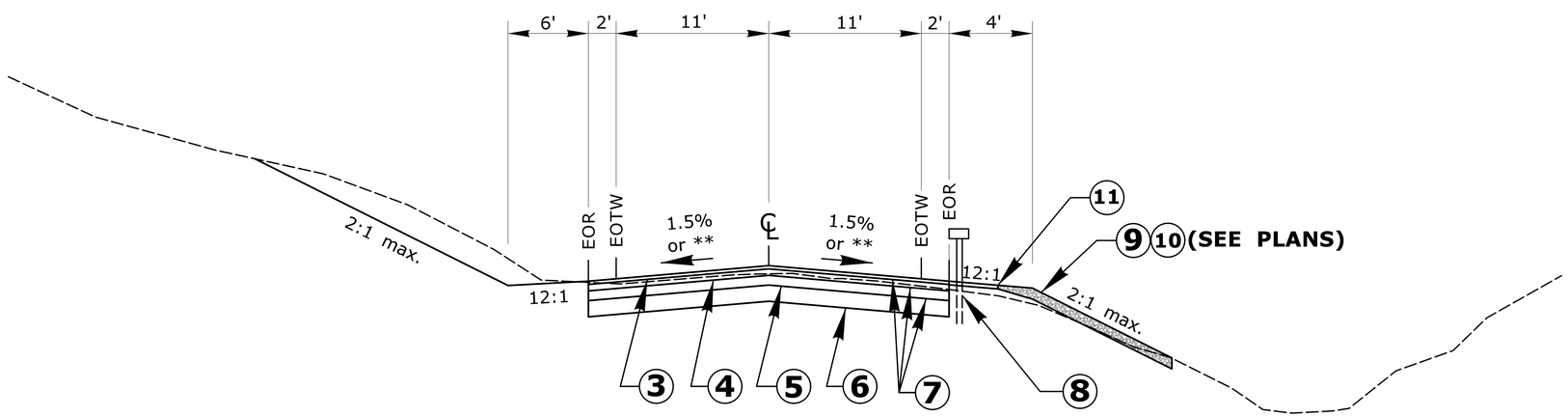
SHEET NO. **03.001**

TYPICAL SECTIONS



OVERLAY TYPICAL SECTION

STA. 102+00 TO STA. 124+00



RECONSTRUCTION TYPICAL SECTION

ROUTE 133 - STA. 124+00 TO STA. 154+00
WEWAKA BROOK RD - STA. 200+13 TO STA. 200+62

LEGEND

1. 2.5" FINE MILLING
2. 1" HMA S0.25 (LEVELING COURSE)
3. 2" HMA S0.5
4. 4" HMA S0.5 (PLACED IN TWO EQUAL LIFTS)
5. 6" PROCESSED AGGREGATE BASE
6. 18" SUBBASE
7. TACK COAT
8. BOX BEAM RAIL AS SHOWN ON PLANS
9. 12" MODIFIED RIPRAP SLOPE PROTECTION (SEE PLANS)
10. TOPSOIL & TURF ESTABLISHMENT (SEE PLANS)
11. PAVEMENT FOR RAIL

* CROSS SLOPE AS EXISTING
** AS SHOWN ON PLANS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_TYP-01.dgn

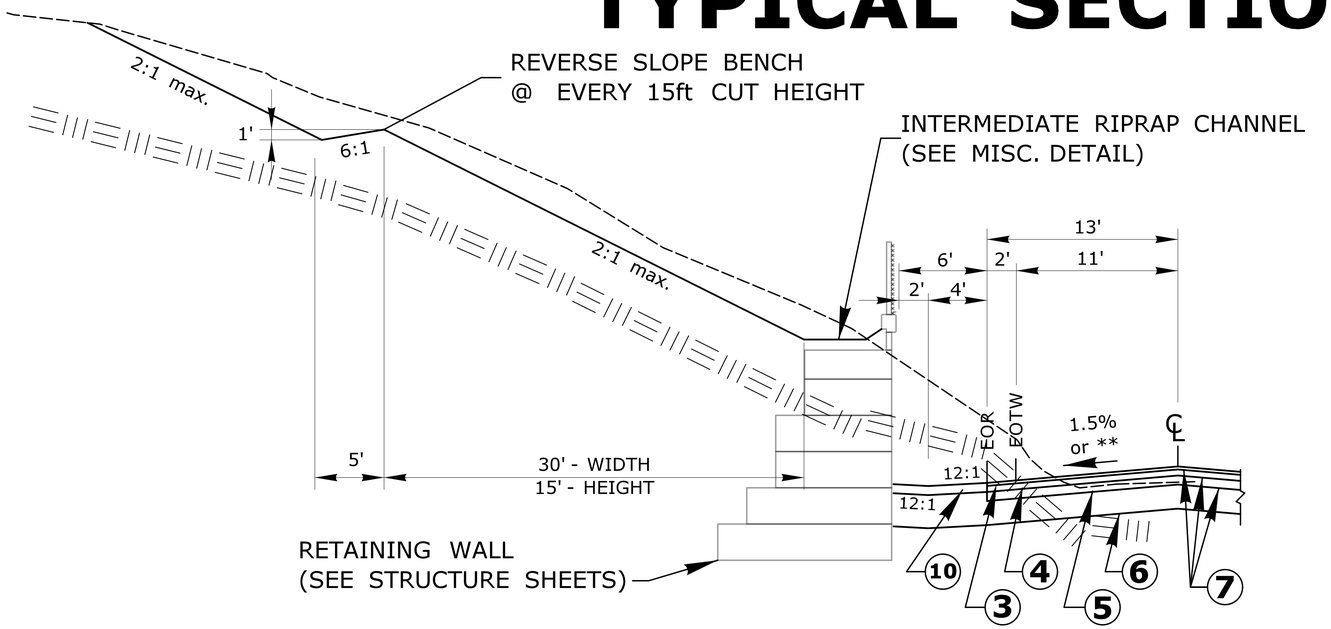
SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER
DRAWING TITLE: TYPICAL SECTION

PROJECT NO. 16-98
DRAWING NO. TYP-01
SHEET NO. 03.002

TYPICAL SECTIONS



LEGEND

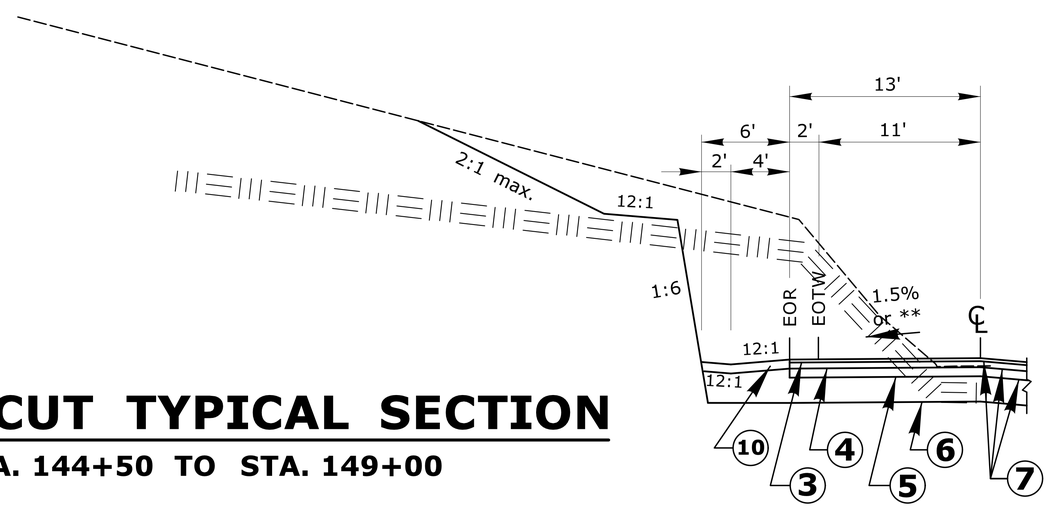
1. 2.5" FINE MILLING
2. 1" HMA S0.25 (LEVELING COURSE)
3. 2" HMA S0.5
4. 4" HMA S0.5 (PLACED IN TWO EQUAL LIFTS)
5. 6" PROCESSED AGGREGATE BASE
6. 18" SUBBASE
7. TACK COAT
8. BOX BEAM RAIL AS SHOWN ON PLANS
9. 12" MODIFIED RIPRAP SLOPE PROTECTION (SEE PLANS)
10. TOPSOIL & TURF ESTABLISHMENT (SEE PLANS)
11. PAVEMENT FOR RAIL

* CROSS SLOPE AS EXISTING

** AS SHOWN ON PLANS

RETAINING WALL TYPICAL SECTION

STA. 125+75 TO STA. 133+25



ROCK CUT TYPICAL SECTION

STA. 144+50 TO STA. 149+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_TYP-02.dgn

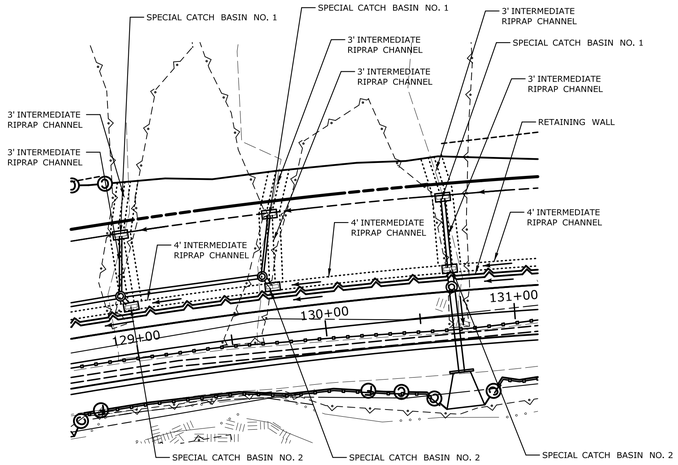
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

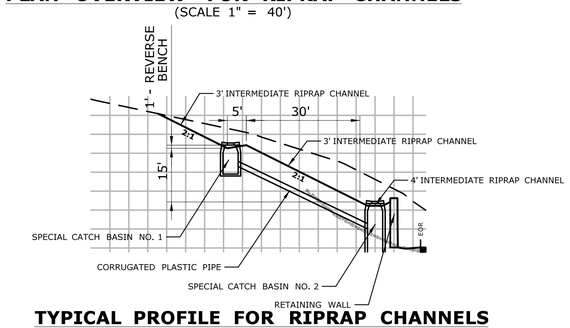
TOWN: BRIDGEWATER

DRAWING TITLE: TYPICAL SECTION

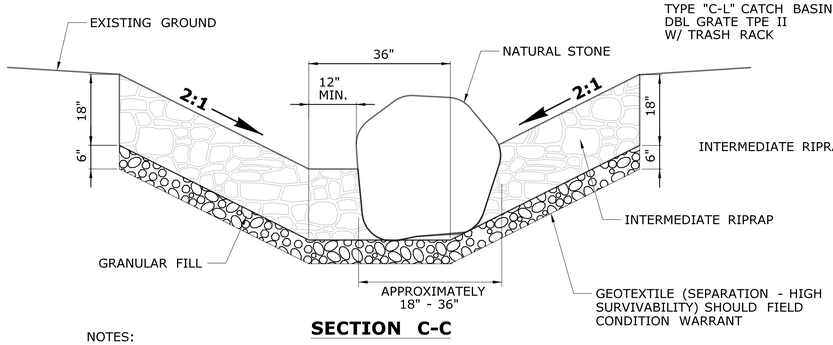
PROJECT NO. 16-98
DRAWING NO. TYP-02
SHEET NO. 03.003



PLAN OVERVIEW FOR RIPRAP CHANNELS
(SCALE 1" = 40')



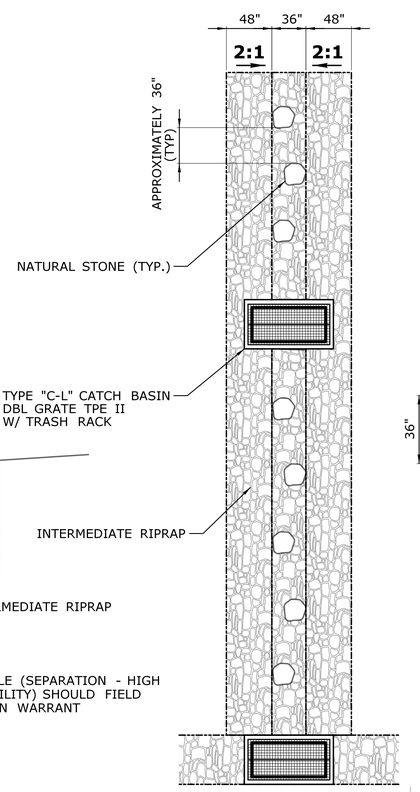
TYPICAL PROFILE FOR RIPRAP CHANNELS & REVERSE SLOPE BENCH DETAIL



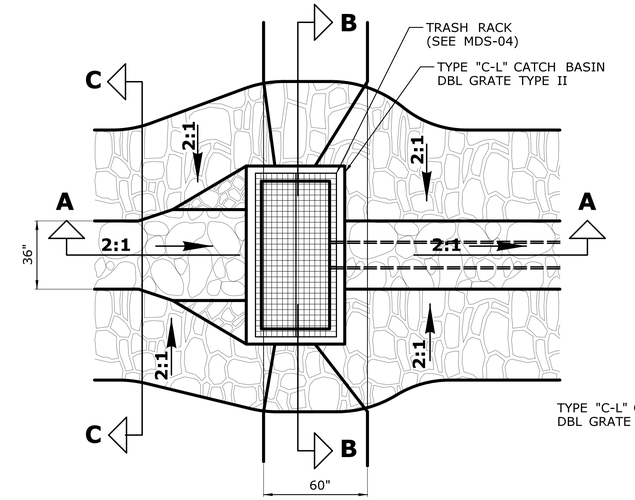
SECTION C-C

NOTES:

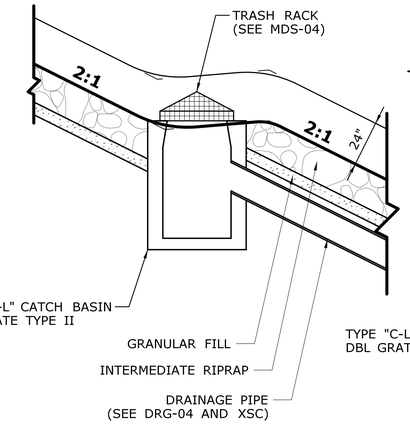
1. NATURAL STONES ARE TO BE PLACED IN A MANNER AND AT AN INTERVAL THAT IS CONSISTENT WITH THE NATURAL CONDITIONS AND TENDENCIES OF THE EXISTING WATERCOURSE CHANNELS AS DEPICTED IN THE NATURAL STONE LAYOUT DETAIL. ACTUAL SPACING AND LOCATION MAY VARY BASED ON FIELD CONDITIONS.
2. EXISTING STONES WITHIN THE IMPACTED CHANNEL SHOULD BE UTILIZED FOR PLACEMENT AS DESCRIBED IN NOTE NO. 1.
3. PLACEMENT OF NATURAL STONES SHALL BE PAID FOR UNDER ITEM No. 0703011 - INTERMEDIATE RIPRAP.



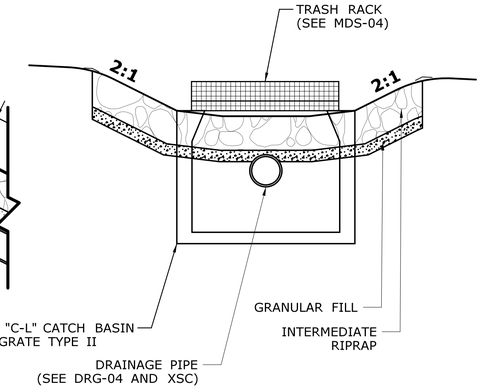
NATURAL STONE LAYOUT



PLAN OVERVIEW



SECTION A-A

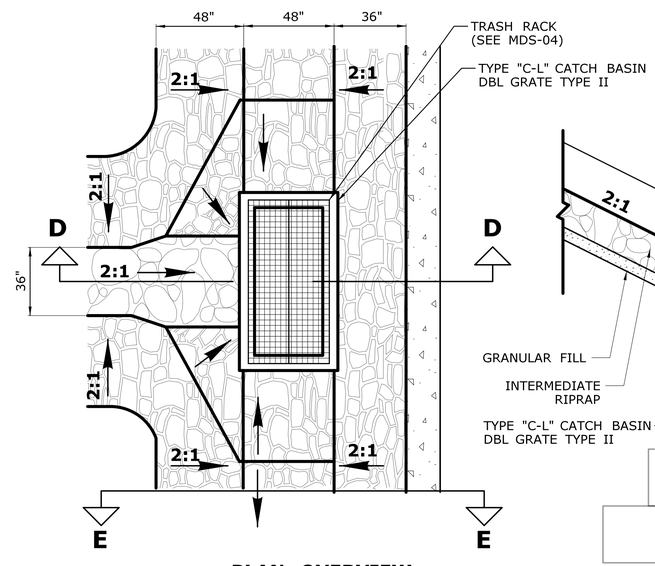


SECTION B-B

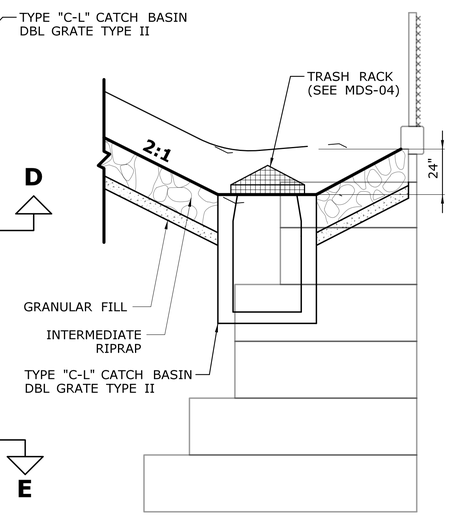
SPECIAL CATCH BASIN NO. 1

NOTES:

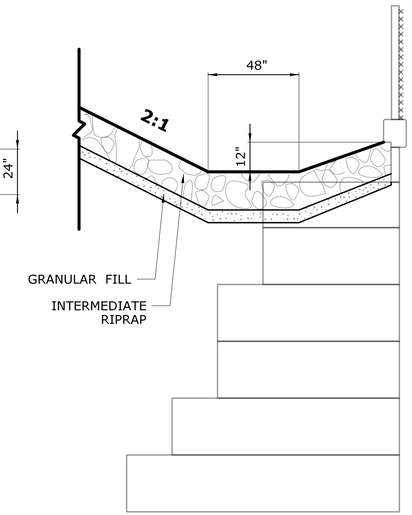
1. SPECIAL CATCH BASIN IS COMPRISED OF A TYPE "C-L" CATCH BASIN WITH A TRASH RACK SECURED AS THE TOP TO THE CATCH BASIN AND SHALL BE PAID FOR UNDER ITEMS No. 0507222 - TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II AND No. 0507598A - TRASH RACK.
2. RETAINING WALL SHOWN FOR REFERENCE ONLY. SEE STRUCTURE SHEETS.



PLAN OVERVIEW



SECTION D-D



SECTION E-E

SPECIAL CATCH BASIN NO. 2

NOTES:

1. SPECIAL CATCH BASIN IS COMPRISED OF A TYPE "C-L" CATCH BASIN WITH A TRASH RACK SECURED AS THE TOP TO THE CATCH BASIN AND SHALL BE PAID FOR UNDER ITEMS No. 0507222 - TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II AND No. 0507598A - TRASH RACK.
2. RETAINING WALL SHOWN FOR REFERENCE ONLY. SEE STRUCTURE SHEETS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_MDS-01.dgn

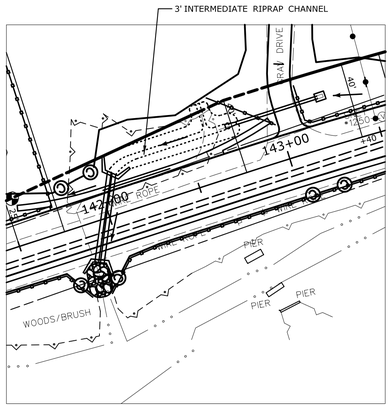
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

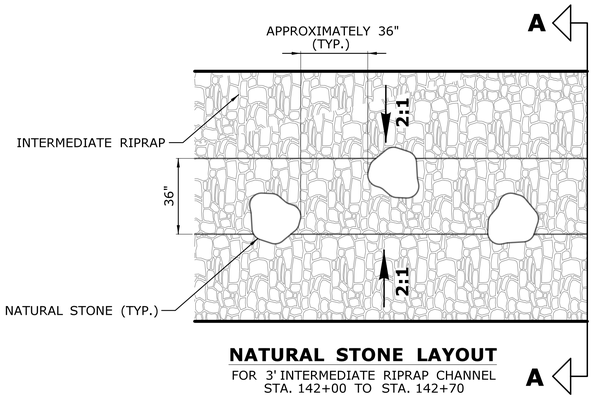
DRAWING TITLE: MISCELLANEOUS DETAILS CATCH BASINS & CHANNELS

PROJECT NO. 16-98
DRAWING NO. MDS-01
SHEET NO. 03.004



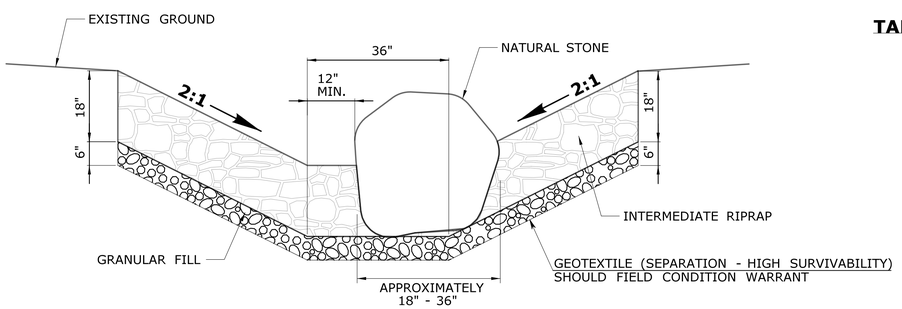
PLAN OVERVIEW FOR RIPRAP CHANNEL

(SCALE 1" = 40')



NATURAL STONE LAYOUT

FOR 3' INTERMEDIATE RIPRAP CHANNEL
STA. 142+00 TO STA. 142+70

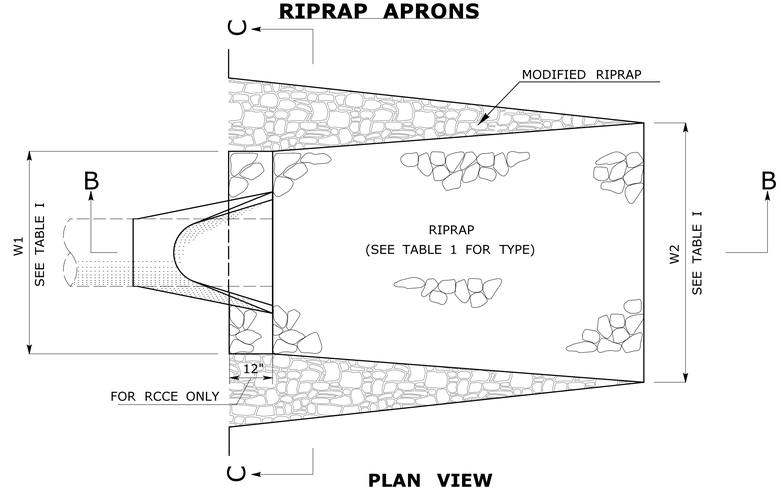


SECTION A-A

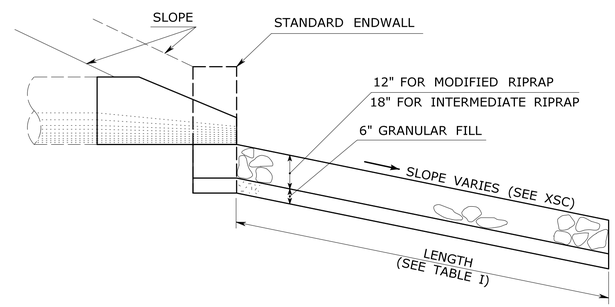
NOTES:

1. NATURAL STONES ARE TO BE PLACED IN A MANNER AND AT AN INTERVAL THAT IS CONSISTENT WITH THE NATURAL CONDITIONS AND TENDENCIES OF THE EXISTING WATERCOURSE CHANNELS AS DEPICTED IN THE NATURAL STONE LAYOUT DETAIL. ACTUAL SPACING AND LOCATION MAY VARY BASED ON FIELD CONDITIONS.
2. EXISTING STONES WITHIN THE IMPACTED CHANNEL SHOULD BE UTILIZED FOR PLACEMENT AS DESCRIBED IN NOTE NO. 1.
3. PLACEMENT OF NATURAL STONES SHALL BE PAID FOR UNDER ITEM No. 0703011 - INTERMEDIATE RIPRAP.

RIPRAP APRONS



PLAN VIEW

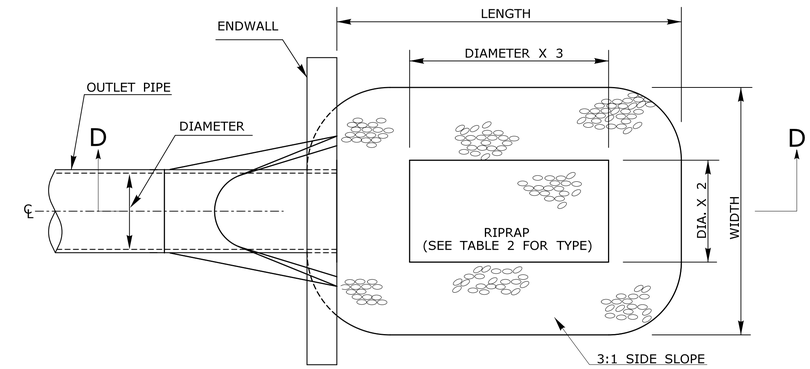


SECTION B-B

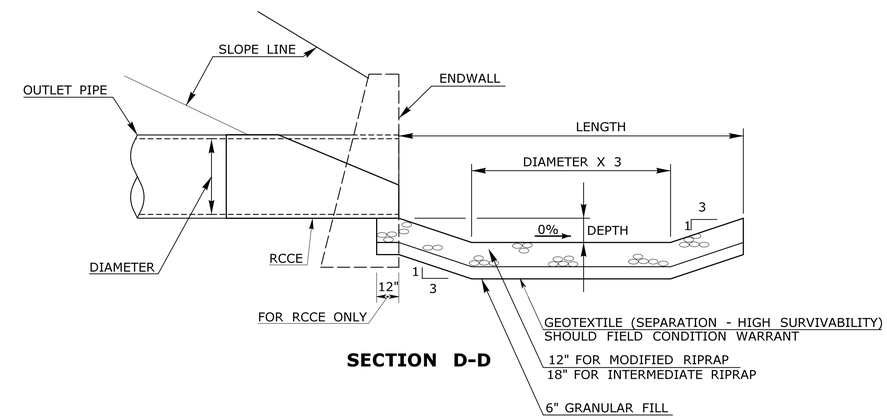
TABLE 1: RIPRAP APRON DIMENSIONS & TYPE

STATION	LENGTH	WIDTHS		RIP RAP TYPE
		W1	W2	
103+25	17'	4'	11'	MODIFIED
112+00	8'	10'	11.5'	INTERMEDIATE
115+19	14'	4'	11'	INTERMEDIATE
118+96	9'	4.5'	10'	INTERMEDIATE
125+42	12'	9'	16'	INTERMEDIATE
126+00	12'	9'	23'	INTERMEDIATE
128+50	10'	6'	11'	INTERMEDIATE
130+70	18.5'	9'	20'	INTERMEDIATE
132+75	14'	9'	19'	INTERMEDIATE
133+00	13'	6'	15'	INTERMEDIATE
139+50	12'	6'	13'	INTERMEDIATE
146+87	12'	6'	14.5'	MODIFIED
150+50	8'	7.5'	14.5'	MODIFIED
152+10 RT	15'	7.5'	14.5'	MODIFIED
152+10 LT	19'	13'	13'	MODIFIED

PREFORMED SCOUR HOLE



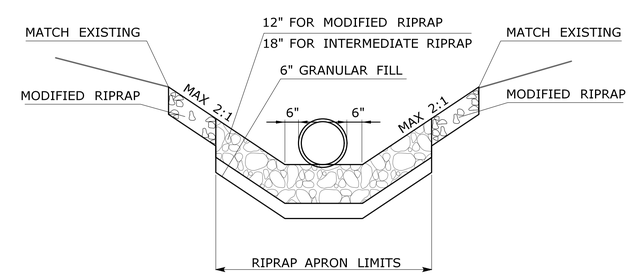
PLAN VIEW



SECTION D-D

TABLE 2: PREFORMED SCOUR HOLES

STATION	LENGTH	WIDTH	DEPTH	RIP RAP TYPE
141+88	18'	12'	1'	INTERMEDIATE



SECTION C-C

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_MDS-02.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

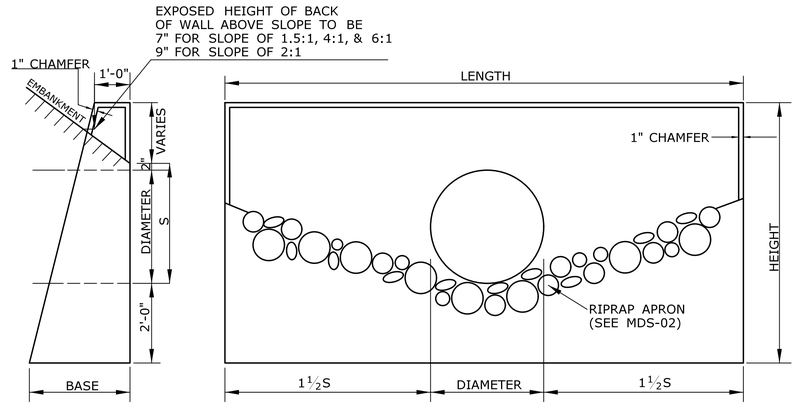
PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: MISCELLANEOUS DETAILS OUTLET PRO & CHANNELS

PROJECT NO. 16-98
DRAWING NO. MDS-02
SHEET NO. 03.005

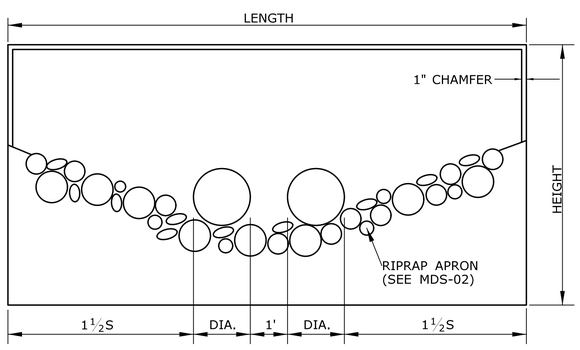
CONCRETE ENDWALLS



XSC

FRONT ELEVATION

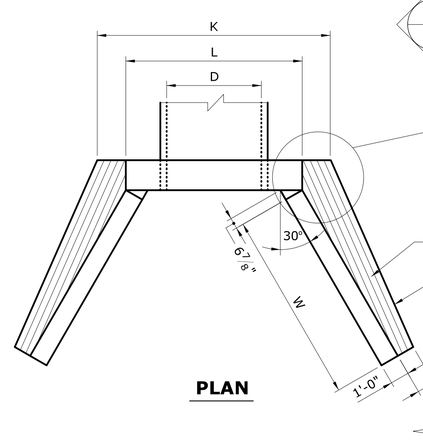
STATION	CULVERT		CONCRETE ENDWALL				
	DIA. (IN)	S (IN)	HEIGHT (FT-IN)	LENGTH (FT-IN)	BATTER (IN/FT)	BASE (FT-IN)	VOL (CY)
103+25 RT	15	17	7'-2"	5'-6"	3"	2'-6"	2.4
115+20 RT	15	17	5'-10"	5'-6"	3"	2'-2"	1.8
118+96 RT	15	17	6'-10"	7'-6"	3"	2'-4"	3.1
125+42 RT	36	38	8'-2"	12'-6"	3"	2'-8"	6.3
126+00 RT	36	38	8'-9"	12'-6"	3"	3'-2"	7.7
128+50 RT	24	26	9'-10"	8'-6"	3"	3'-0"	5.8
130+70 RT	36	38	7'-7"	12'-6"	3"	2'-11"	6.2
132+75 RT	36	38	10'-1"	12'-6"	3"	3'-6"	9.8
133+00 RT	24	26	9'-2"	8'-6"	3"	2'-10"	5.2
139+50 RT	24	26	8'-11"	8'-6"	3"	2'-10"	5.0
146+86 RT	24	26	9'-0"	8'-6"	3"	2'-10"	5.1



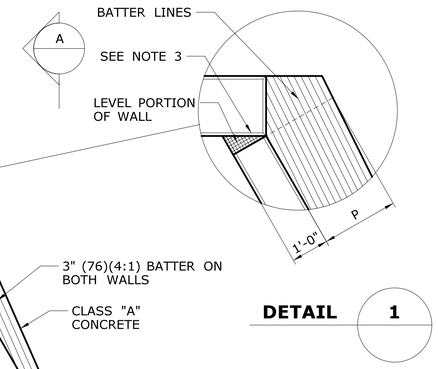
FRONT ELEVATION

STATION	CULVERT		CONCRETE ENDWALL				
	DIA. (IN)	S (IN)	HEIGHT (FT-IN)	LENGTH (FT-IN)	BATTER (IN/FT)	BASE (FT-IN)	VOL (CY)
150+50 RT	15	17	6'-9"	7'-9"	3"	2'-4"	3.0
152+10 RT	15	17	6'-4"	7'-9"	3"	2'-3"	2.7

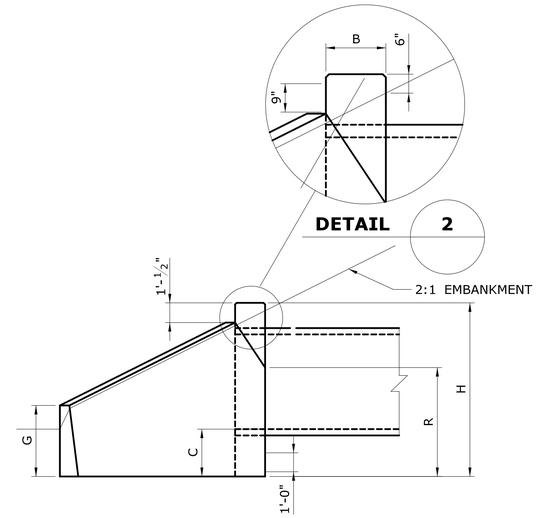
WING TYPE CONCRETE ENDWALL



PLAN

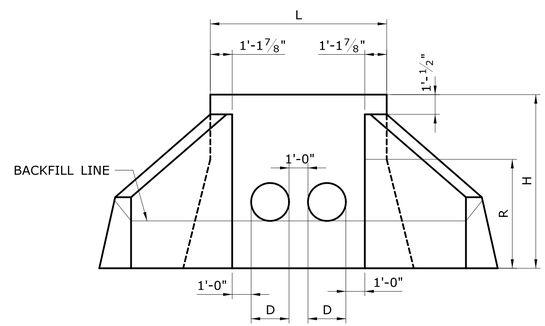


DETAIL 1



DETAIL 2

VIEW A



FRONT ELEVATION

H = TOTAL HEIGHT OF ENDWALL

B = BASE

D = INSIDE DIAMETER OF PIPE

S = HEIGHT OF SLOPE ABOVE FLOW LINE AT FACE OF WALL = D+2"(51) MIN.

L = LENGTH OF WALL = 3S+D

ALL EDGES OF EXPOSED SURFACES SHALL BE CHAMFERED APPROXIMATELY ONE INCH (25mm).

DIMENSIONS AND QUANTITIES FOR ONE WING TYPE ENDWALL												
LOCATION	D	B	C	G	H	K	L	P	Q	R	W	VOL
STATION	IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	CU.YD.
141+88 RT	DUAL 24"	1'-6"	2'-0"	3'-3"	8'-4"	12'-0"	9'-4"	1'-6"	0'-10"	4'-11"	9'-4"	9.4
141+88 LT	DUAL 24"	1'-6"	2'-0"	3'-3"	7'-0"	12'-0"	9'-4"	1'-6"	0'-10"	3'-8"	6'-4"	6.7

NOTES:
- THE ENDWALL SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE.
- MATERIALS, CONSTRUCTION METHODS, MEASUREMENT AND PAYMENT FOR THE ENDWALL SHALL BE ACCORDING TO SECTION 5.06
- ALL EXPOSED EDGES SHALL BE CHAMFERED 1" X 1"
- EXCAVATION FOR THE ENDWALL SHALL BE PAID ACCORDING TO SECTION 2.05 - TRENCH EXCAVATION.
- A TOLERANCE OF 1" WILL BE ALLOWED IN SPAN, RISE, HEIGHT, AND WIDTH

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS

CHECKED BY: JDP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_MDS-03.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

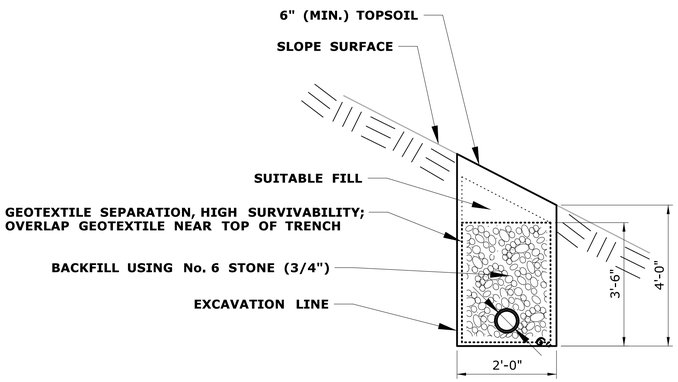
TOWN: BRIDGEWATER

DRAWING TITLE: MISCELLANEOUS DETAILS CONCRETE ENDWALLS

PROJECT NO. 16-98

DRAWING NO. MDS-03

SHEET NO. 03.006

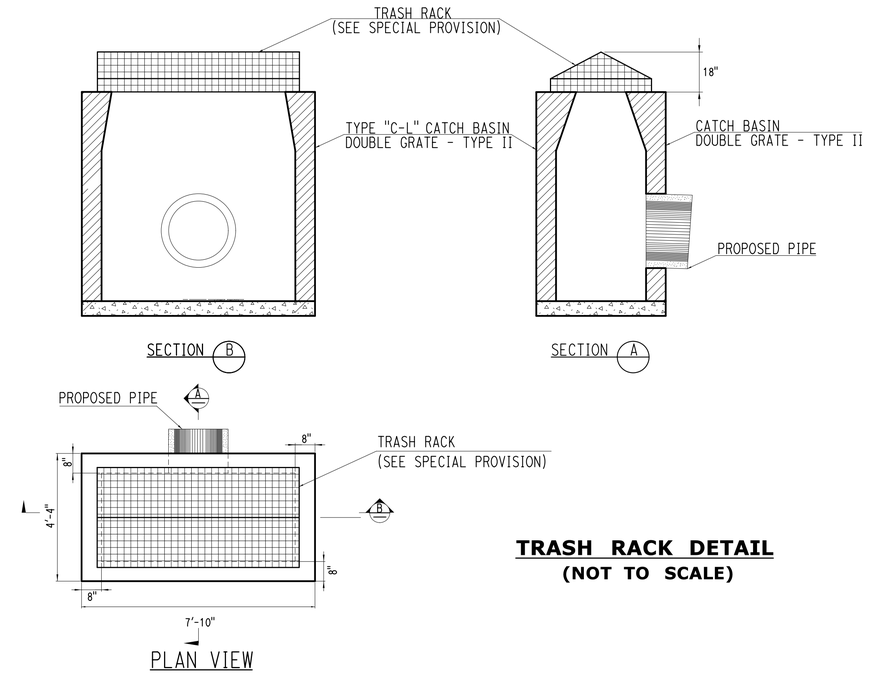


PAYMENT LIMIT FOR TRENCH EX.

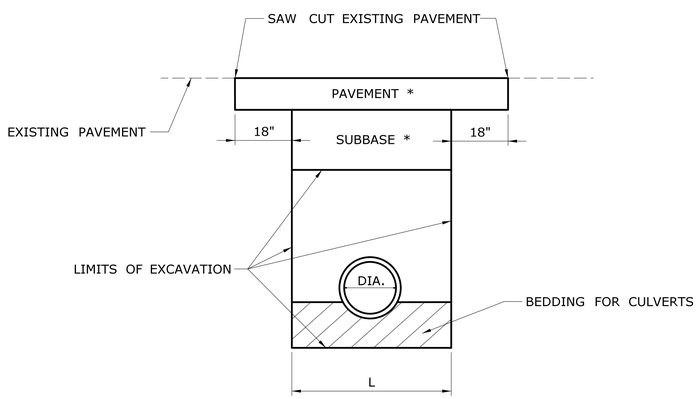
NOTE:

1) UNDERDRAINS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICES FOR 6" SLOPE UNDERDRAIN, TRENCH EXCAVATION, GEOTEXTILE SEPARATION, HIGH SURVIVABILITY, AND No. 6 STONE (3/4")

6" SLOPE UNDERDRAIN



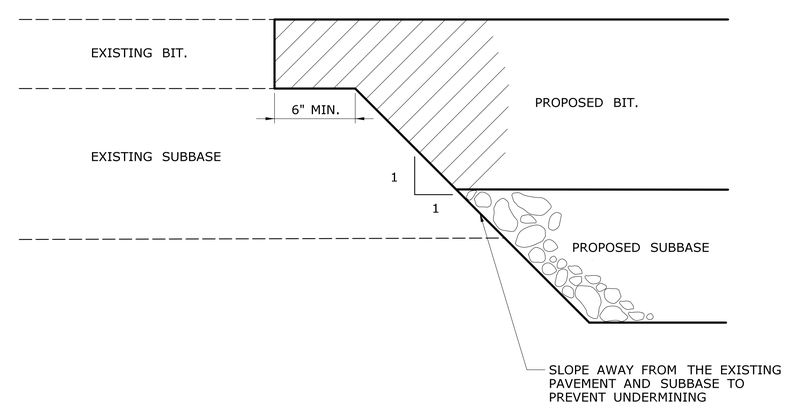
TRASH RACK DETAIL
(NOT TO SCALE)



L = DIA. +24" (FOR PIPES UNDER 30")
DIA. +36" (FOR PIPES 30" AND OVER)

TYPICAL TREATMENT OF PAVEMENT REPLACEMENT AND LIMITS OF TRENCH EXCAVATION AT DRAINAGE INSTALLATIONS

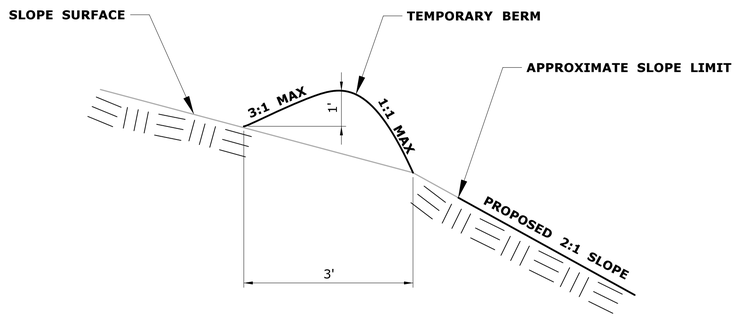
* SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURE



PAVEMENT TRANSITION DETAIL FOR PLACEMENT AT EXISTING PAVEMENT

ROUTE 133: STA. 124+00, STA. 154+00
WEWAKA BROOK RD: TERMINUS

	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	EBS JDP SCALE AS NOTED	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	OFFICE OF ENGINEERING APPROVED BY:	SAFETY IMPROVEMENTS ON ROUTE 133	BRIDGEWATER MISCELLANEOUS DETAILS DRIVEWAYS & UNDERDRAIN	16-98 MDS-04 03.007

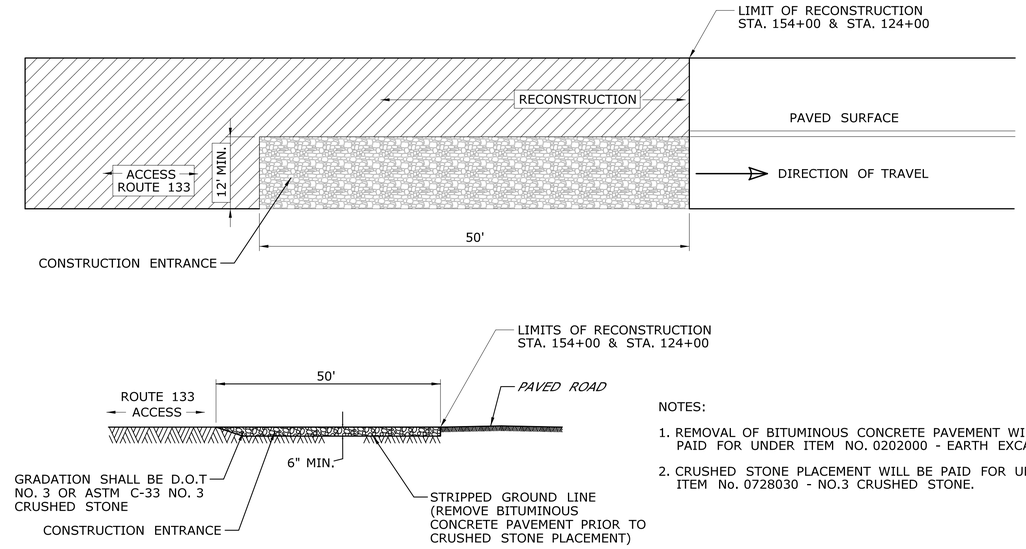


TEMPORARY BERM

(NOT TO SCALE)

NOTES:

1. TEMPORARY BERM TO BE PAID FOR UNDER ITEM No. 0210820 - WATER POLLUTION CONTROL.
2. TEMPORARY BERM IS TO BE INSPECTED AFTER EVERY RAIN EVENT. ANY NECESSARY REPAIRS WILL BE PAID FOR UNDER ITEM No. 0210820 - WATER POLLUTION CONTROL

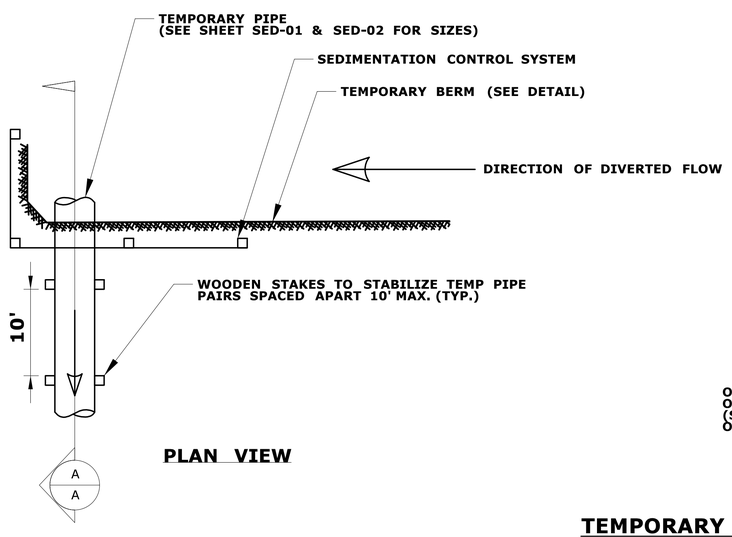


NOTES:

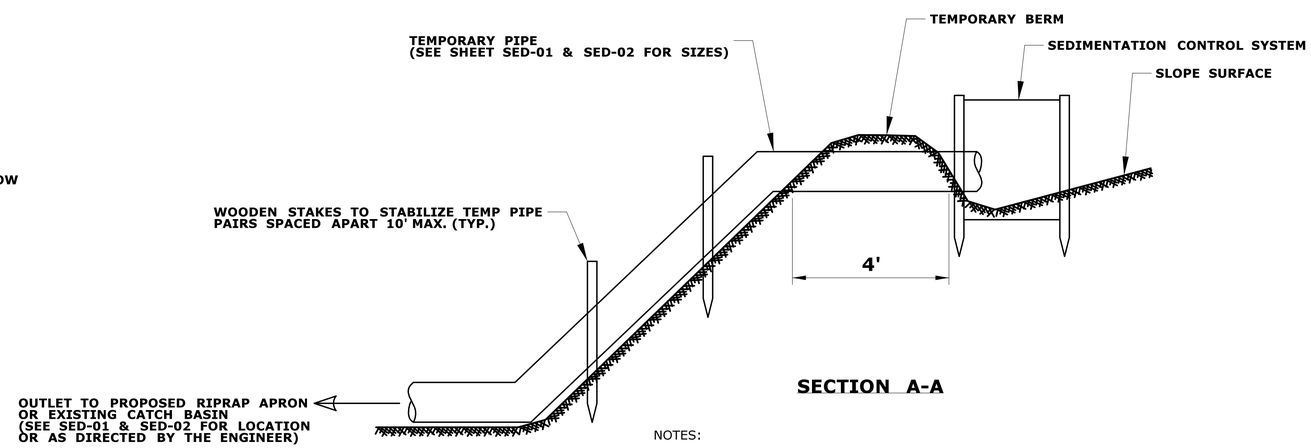
1. REMOVAL OF BITUMINOUS CONCRETE PAVEMENT WILL BE PAID FOR UNDER ITEM NO. 0202000 - EARTH EXCAVATION.
2. CRUSHED STONE PLACEMENT WILL BE PAID FOR UNDER ITEM No. 0728030 - NO.3 CRUSHED STONE.

CONSTRUCTION ENTRANCE

(NOT TO SCALE)



PLAN VIEW



SECTION A-A

NOTES:

1. TEMPORARY PIPE SLOPE DRAIN & WOODEN STAKES USED FOR STABILIZATION SHALL BE PAID FOR UNDER ITEM No. 0210820 - WATER POLLUTION CONTROL.
2. TEMPORARY PIPE SLOPE DRAIN IS TO BE INSPECTED AFTER EVERY RAIN EVENT. ANY NECESSARY REPAIRS WILL BE PAID FOR UNDER ITEM No. 0210820 - WATER POLLUTION CONTROL.
3. SEDIMENTATION CONROL SYSTEM PAID FOR UNDER ITEM No. 0219001 - SEDIMENTATION CONTROL SYSTEM.

TEMPORARY PIPE SLOPE DRAIN

(NOT TO SCALE)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW.MSH.0016.0098.MDS-05.dgn

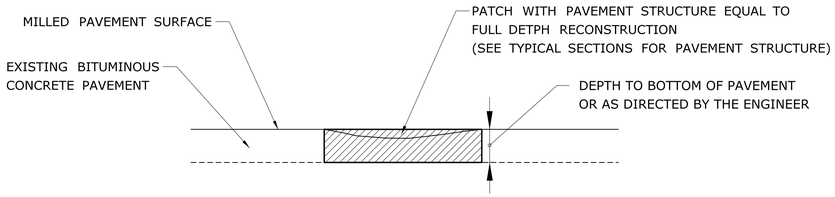
SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE:
MISCELLANEOUS DETAILS
E&S MEASURES

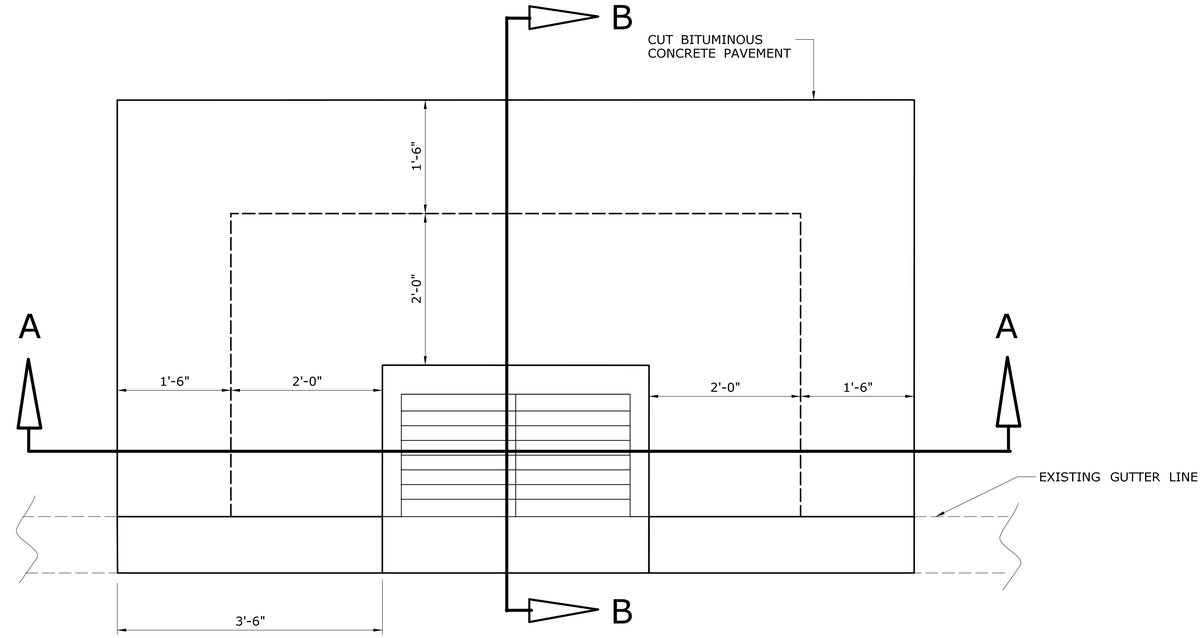
PROJECT NO. 16-98
DRAWING NO. MDS-05
SHEET NO. 03.008



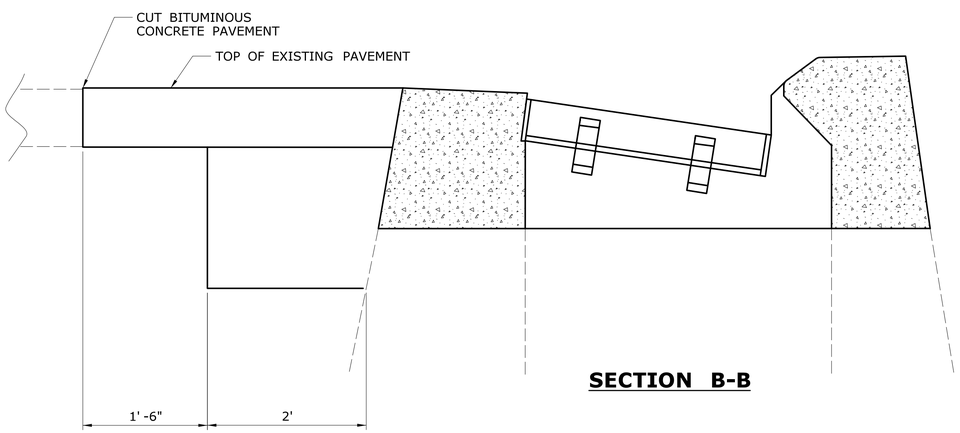
BITUMINOUS CONCRETE PATCHING - FULL DEPTH

NOTES:

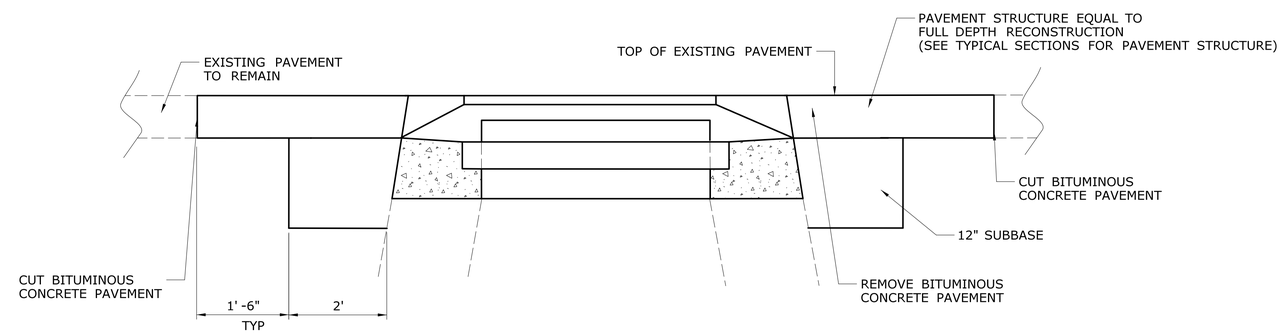
1. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISION FOR "BITUMINOUS CONCRETE PATCHING - FULL DEPTH".
2. THIS WORK SHALL BE APPLIED IN AREAS AS DIRECTED BY THE ENGINEER.



PLAN



SECTION B-B



SECTION A-A

RESET CATCH BASIN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW..MSH..0016..0098..MDS-06.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE:
MISCELLANEOUS DETIALS
RESET CB & PAVE PATCH

PROJECT NO. 16-98
DRAWING NO. MDS-06
SHEET NO. 03.009

Connecticut DOT Boring Report

Driller: A. Conant		Hole No.: RW-102-6	
Inspector: G. Arzt	Town: Bridgewater	Stat./Offset: 135+16/8' Lft	
Engineer: R. Pion	Project No.: 0016-0098	Northing: 739912	
Start Date: 4-4-13	Route No.: 133	Easting: 835135	
Finish Date: 4-4-13	Bridge No.:	Surface Elevation: 287.6	
Project Description: Roadway Realignment			
Casing Size/Type: 4 inch HW	Sampler Type/Size: 1 3/8 in ID	Core Barrel Type: DT NQ	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @4 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0	S-1	4 4 4 6	24	16		PAVEMENT STRUCTURE/ MISC: FILL	Brown c-f SAND, some c-f gravel, trace silt	
						GLACIAL TILL		285
5	S-2	16 44 80	17	8			Gray brown f-c, and f-c gravel, little silt	
						BEDROCK		
	C-1		60	53	82		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 2,3,3,3,3	280
10	C-2		57	60	76.6		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 3,4,4,4,3	275
15							END OF BORING 15.5ft	

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 5.5ft Rock: 9.833ft	NOTES: Pavement Structure Consists of 12 inches of bituminous pavement on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 2 No. of Core Runs: 2		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: Jason Dorou		Hole No.: R-8	
Inspector: Glenn L. Arzt	Town: Bridgewater	Stat./Offset: 141+90.5/2.7 ft Right	
Engineer: Sara Ghafoe	Project No.: 0016-0098	Northing: 740532	
Start Date: 9-4-15	Route No.: 133	Easting: 834881	
Finish Date: 9-4-15	Bridge No.: NA	Surface Elevation: 314.2	
Project Description: Safety Improvements on Route 133			
Casing Size/Type: 4 inch HFJ	Sampler Type/Size: 2 inch SS	Core Barrel Type: NQ2	
Hammer Wt.: 140lb Fall: 30in.	Hammer Wt.: 140lb Fall: 30in.		
Groundwater Observations:			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ GLACIAL TILL		310
5	S-1	7 11 11 6	24	12			Brown- C/F GRAVEL, some C/F Sand, trace Silt	
	S-2	50	1	1		BEDROCK	Gray- F/C SAND, trace F/C Fravel, trace Silt	305
10	C-1		60	56	66.6		Gray- medium grained, laminated bedded, moderately fractured, slightly weathered Schist Core Times (min/ft): 5.0, 7.0, 6.0, 6.0, 6.0	
15	C-2		60	48	80		Gray- medium grained, laminated bedded, moderately fractured, slightly weathered Schist Core Times (min/ft): 5.5, 6.0, 6.0, 5.5, 7.5	300
20							END OF BORING 18.6ft	295
25								290
30								285
35								280
40								275
45								270
50								265

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 6.8ft Rock: 10ft	NOTES: Pavement structure consists of 10 inch bituminous concrete with no discernable subbase.	Sheet 1 of 1
No. of Soil Samples: 2 No. of Core Runs: 2		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: Jason Dorou		Hole No.: R-9	
Inspector: Glenn L. Arzt	Town: Bridgewater	Stat./Offset: 146+90.5/0.7 ft Right	
Engineer: Sara Ghafoe	Project No.: 0016-0098	Northing: 741015	
Start Date: 9-3-15	Route No.: 133	Easting: 834754	
Finish Date: 9-3-15	Bridge No.: NA	Surface Elevation: 339.6	
Project Description: Safety Improvements on Route 133			
Casing Size/Type: 4 inch HFJ	Sampler Type/Size: 2 inch SS	Core Barrel Type: NQ2	
Hammer Wt.: 140lb Fall: 30in.	Hammer Wt.: 140lb Fall: 30in.		
Groundwater Observations:			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ GLACIAL TILL		
5	S-1	37 44 30	12	8		BEDROCK	Gray- F/C SAND, little F/C Gravel, trace Silt	335
	C-1		60	16	0		Gray- medium grained, laminated bedded, intensly fractured, moderately weathered Schist Core Times (min/ft): 3.5, 3.5, 3.5, 3.5, 3.0	330
10	C-2		60	32	16		Gray- medium grained, laminated bedded, highly frsctured, moderately weathered Schist Core Times (min/ft): 3.5, 3.5, 13.0, 10.5, 6.0	325
15							END OF BORING 16ft	
20								320
25								315
30								310
35								305
40								300
45								295
50								290

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 6ft Rock: 10ft	NOTES: Pavement structure consists of 9 inch of bituminous concrete with no discernable subbase.	Sheet 1 of 1
No. of Soil Samples: 1 No. of Core Runs: 2		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: Jason Dorou		Hole No.: R-10	
Inspector: Glenn L. Arzt	Town: Bridgewater	Stat./Offset: 150+51.6/4.6 ft Left	
Engineer: Sara Ghafoe	Project No.: 0016-0098	Northing: 741354	
Start Date: 9-3-15	Route No.: 133	Easting: 834634	
Finish Date: 9-3-15	Bridge No.: NA	Surface Elevation: 338.7	
Project Description: Safety Improvements on Route 133			
Casing Size/Type: 4 inch HFJ	Sampler Type/Size: 2 inch SS	Core Barrel Type: NQ2	
Hammer Wt.: 140lb Fall: 30in.	Hammer Wt.: 140lb Fall: 30in.		
Groundwater Observations:			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ SAND		
5	S-1	3 3 3 19	24	13			Brown- F SAND, some F/C Gravel, little Silt with cobbles	335
	S-2	40	2	2		BEDROCK	Gray- C/F Gravel, little F Sand, trace Silt	
10	C-1		60	32	0		Gray- medium grained, laminated bedded, highly fractured, highly weathered Schist Core Times (min/ft): 6.5, 5.5, 5.5, 6.0, 6.0	330
15	C-2		60	24	0		Gray- medium grained, laminated bedded, highly fractured, highly weathered Schist Core times (min/ft): 7.5, 4.5, 4.0, 3.5, 4.0	325
20							END OF BORING 17.7ft	320
25								315
30								310
35								305
40								300
45								295
50								290

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 7.7ft Rock: 10ft	NOTES: Pavement structure consists of 9 inch of bituminous concrete with no discernable subbase.	Sheet 1 of 1
No. of Soil Samples: 2 No. of Core Runs: 2		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: Jason Dorou		Hole No.: R-11	
Inspector: Glenn L. Arzt	Town: Bridgewater	Stat./Offset: 152+13.8/1.3 ft Left	
Engineer: Sara Ghafoe	Project No.: 0016-0098	Northing: 741499	
Start Date: 9-2-15	Route No.: 133	Easting: 834561	
Finish Date: 9-2-15	Bridge No.: NA	Surface Elevation: 340.9	
Project Description: Safety Improvements on Route 133			
Casing Size/Type: 4 inch HFJ	Sampler Type/Size: 2 inch SS	Core Barrel Type: NQ2	
Hammer Wt.: 140lb Fall: 30in.	Hammer Wt.: 140lb Fall: 30in.		
Groundwater Observations:			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ GLACIAL TILL		340
5	S-1	8 31 25 20	24	20			Gray- C/F SAND, AND C/F GRAVEL, trace Silt	335
10	S-2	24 26 21 42	24	14			Tan- C/F SAND, some C/F Gravel, trace Silt	330
15	S-3	70	3	2		BEDROCK	Gray- C/F SAND, AND F/C GRAVEL, trace Silt with cobbles	325
	C-1		60	61	76.6		Gray- medium grained, laminated bedded, moderately fractured, moderately weathered Schist Core Times (min/ft): 6.0, 6.0, 7.0, 6.5, 7.5	
20	C-2		60	62	71.6		Gray- medium grained, laminated bedded, highly fractured, highly weathered Schist Core Times (min/ft): 6.0, 7.0, 7.0, 7.0, 7.5	320
25							END OF BORING 25.25ft	315
30								310
35								305
40								300
45								295
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 15.25ft Rock: 10ft	NOTES: Pavement structure cocnsists of 6 inch of bituminous concrete with no discernable subbase.	Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 2		SM-001-M REV. 1/02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_BOR-01.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

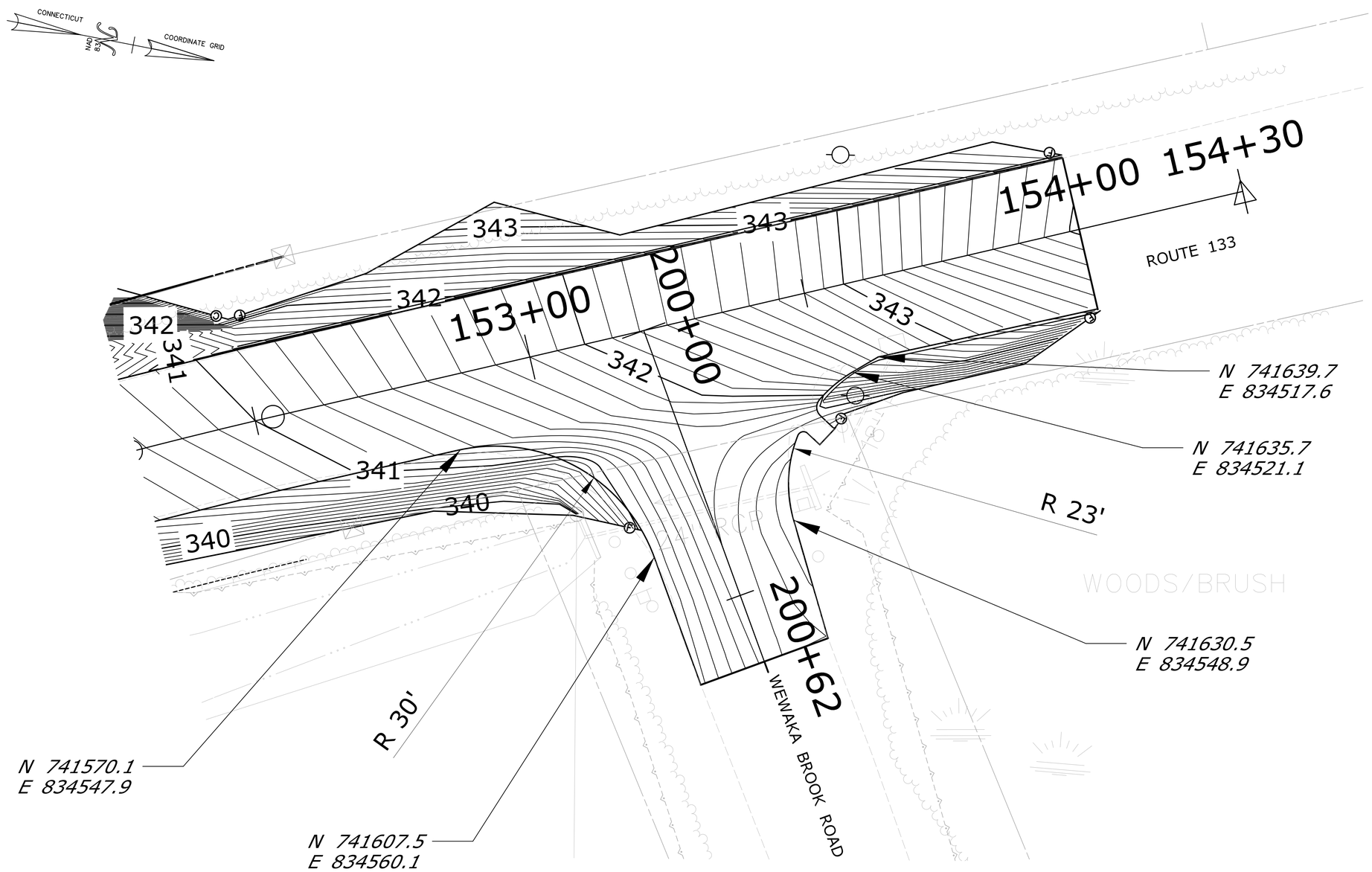
TOWN: **BRIDGEWATER**

DRAWING TITLE: **BORING LOGS**

PROJECT NO. **16-98**

DRAWING NO. **BOR-01**

SHEET NO. **03.010**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS

CHECKED BY: JDP

SCALE IN FEET 0 10 20

SCALE 1"=10'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW.MSH.0016.0098.IGP-01.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

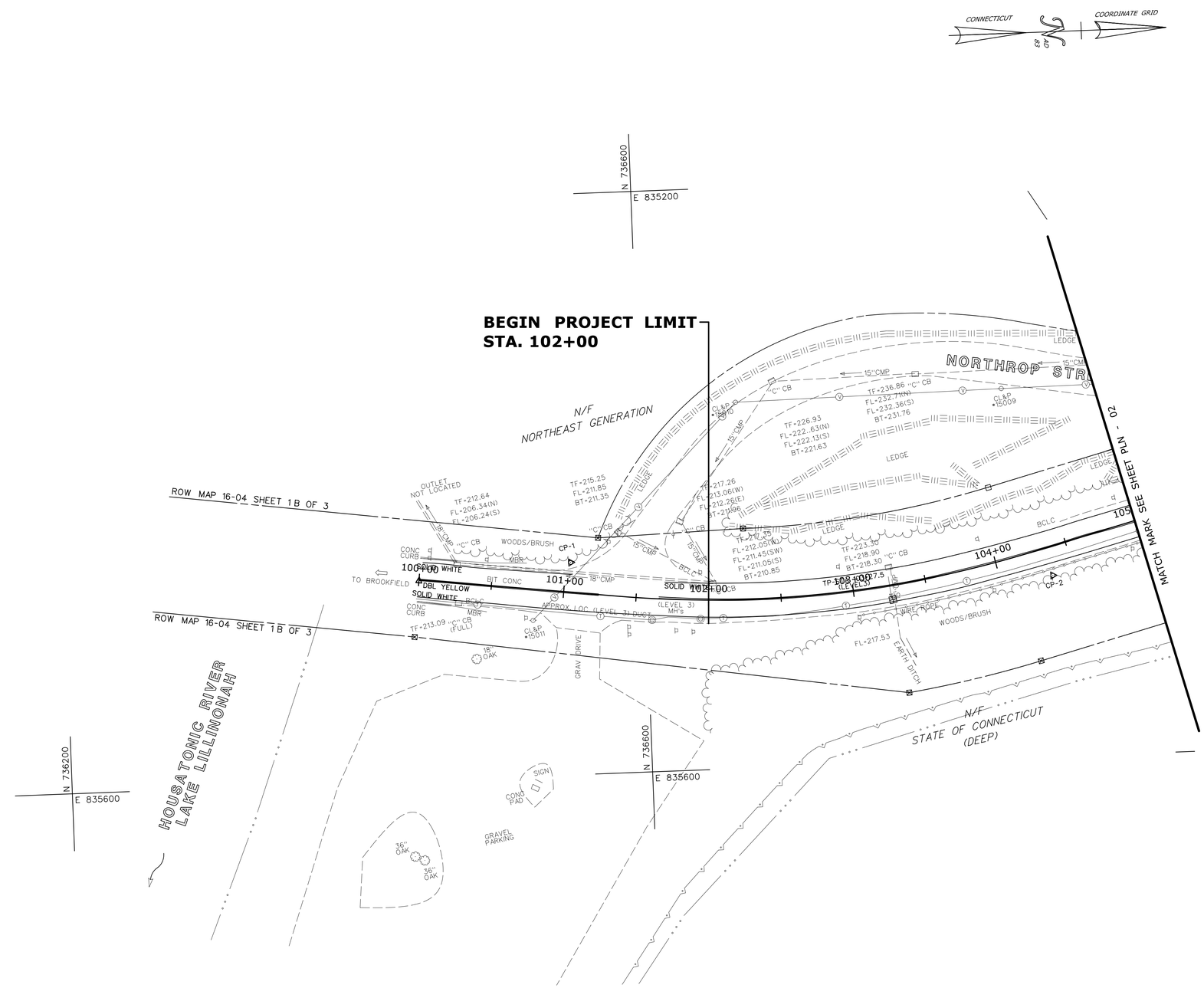
TOWN: BRIDGEWATER

DRAWING TITLE:
INTERSECTION GRADING WEWAKA BRK RD

PROJECT NO. 16-98

DRAWING NO. IGP-01

SHEET NO. 03.011



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_EXC-01.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

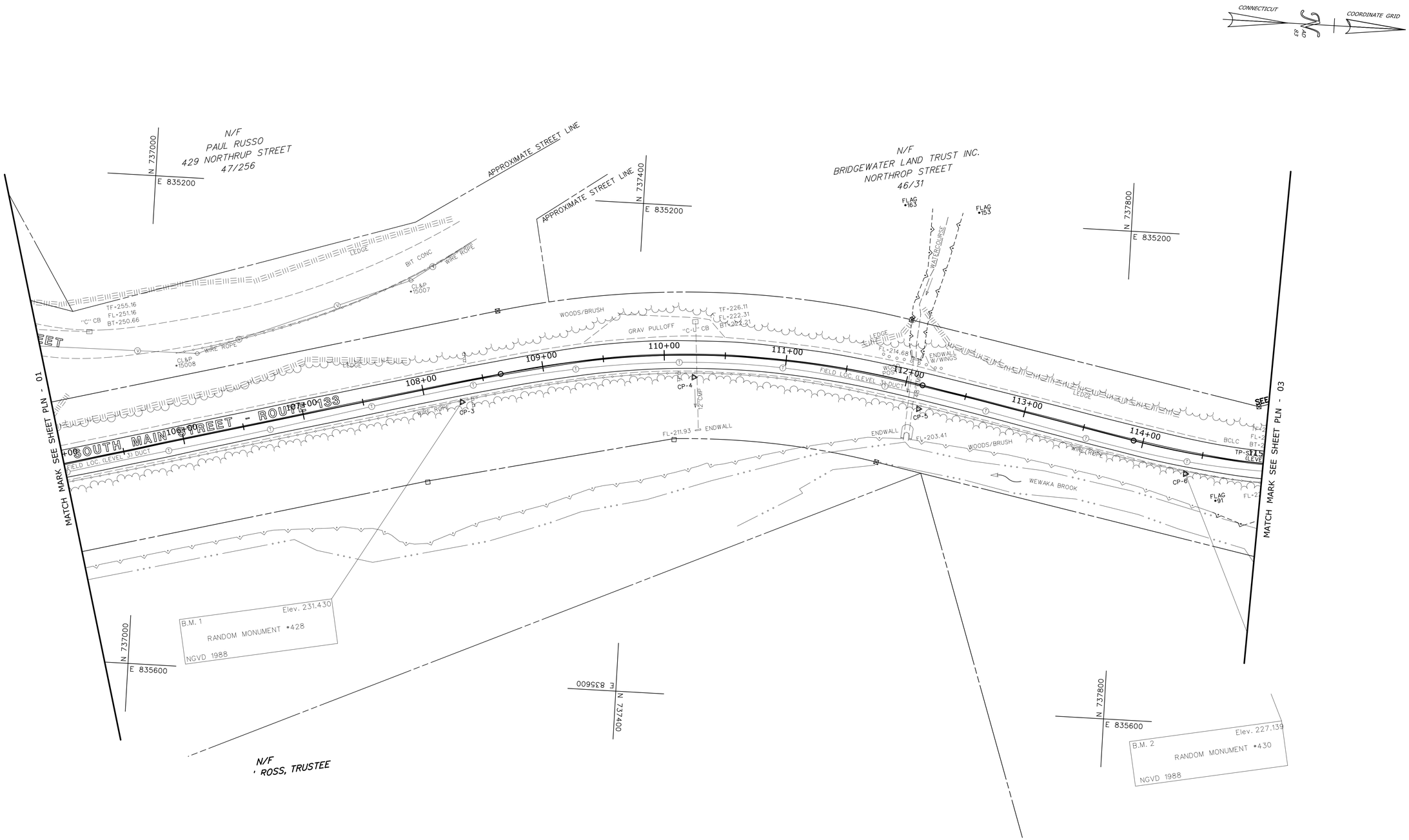
TOWN: **BRIDGEWATER**

DRAWING TITLE:
EXISTING CONDITIONS STA. 100+00 TO STA. 105+00

PROJECT NO. **16-98**

DRAWING NO. **EXC-01**

SHEET NO. **03.012**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
-	-	-	-

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_EXC-02.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

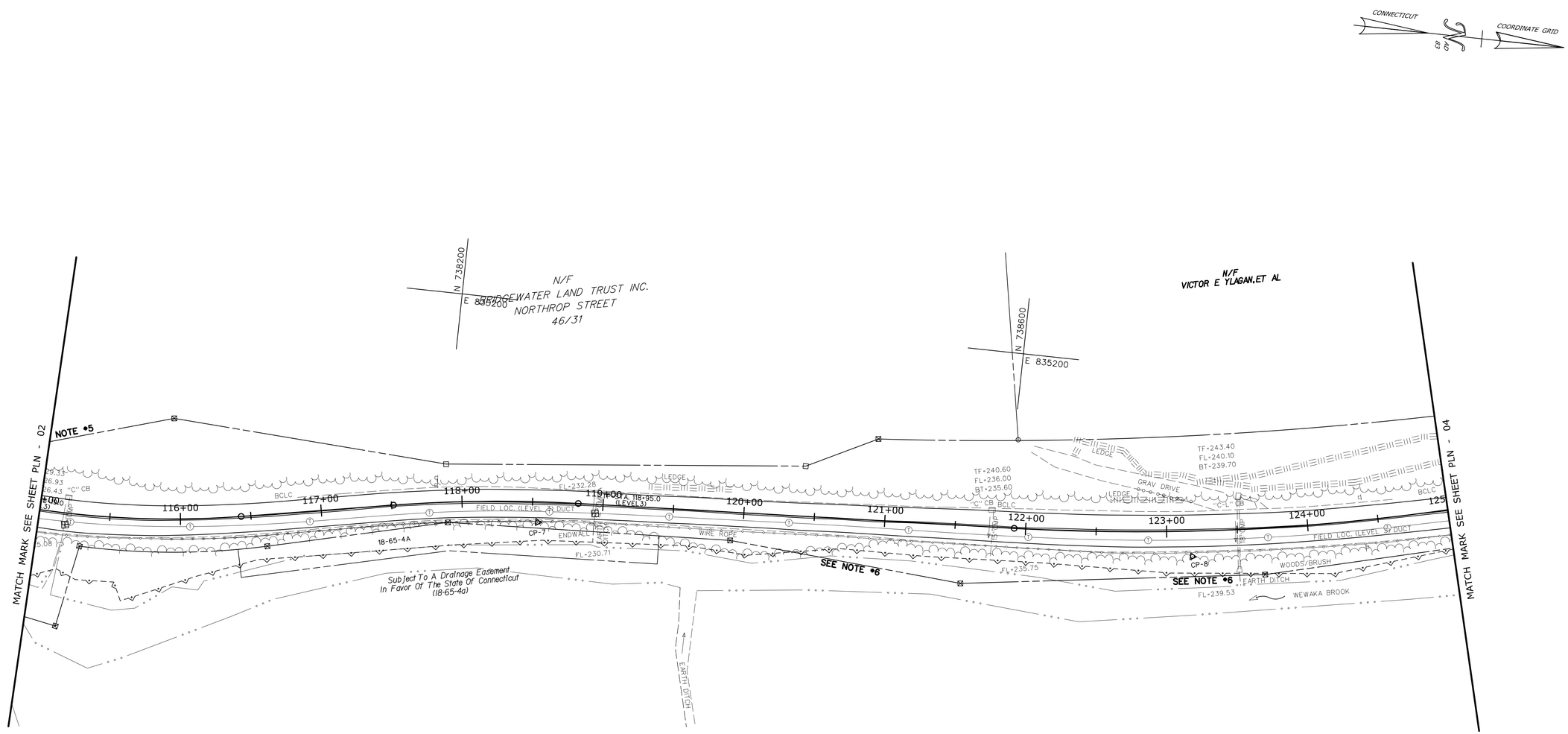
TOWN: **BRIDGEWATER**

DRAWING TITLE: **EXISTING CONDITIONS STA. 105+00 TO STA. 115+00**

PROJECT NO. **16-98**

DRAWING NO. **EXC-02**

SHEET NO. **03.013**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_EXC-03.dgn

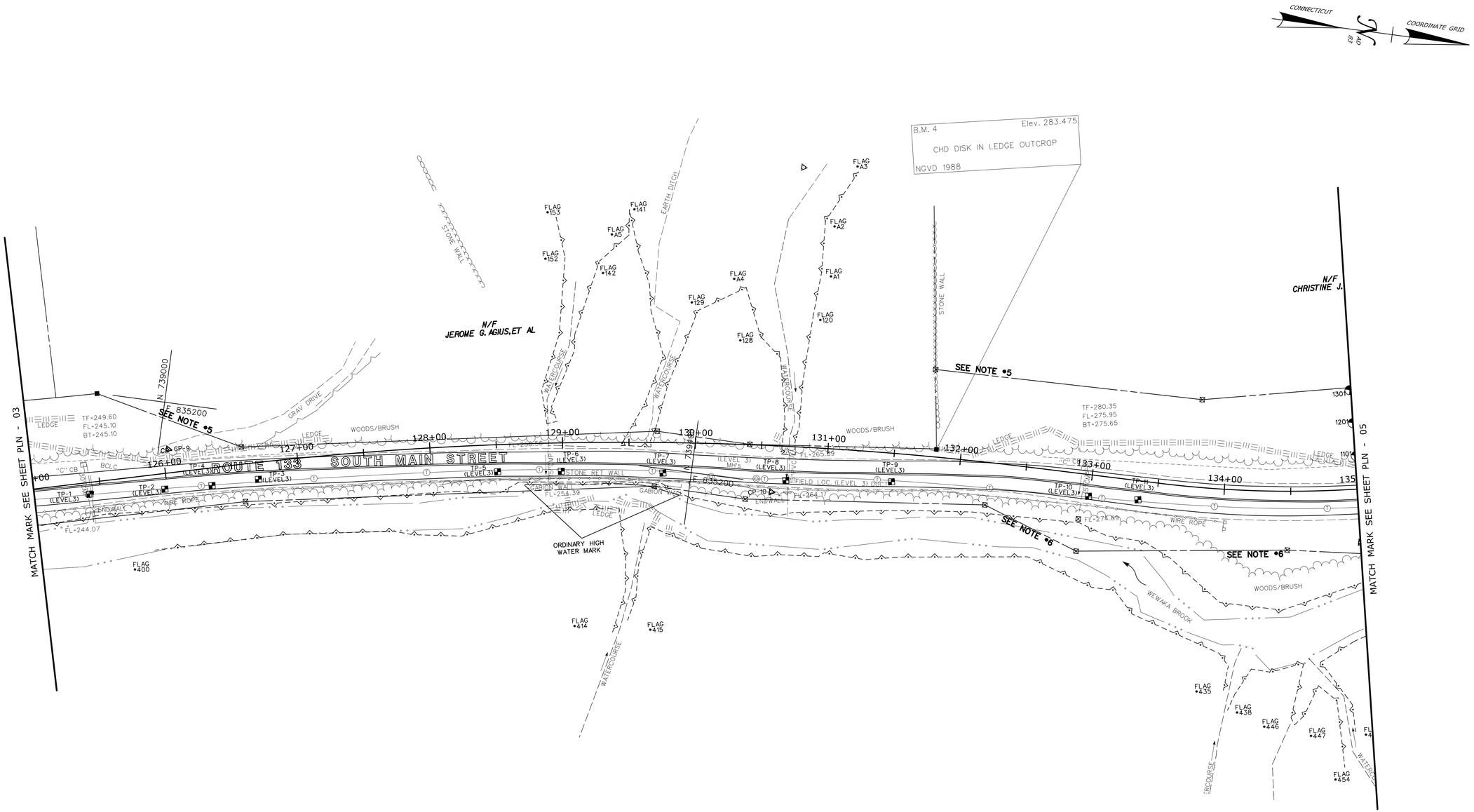
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE:
EXISTING CONDITIONS STA. 115+00 TO STA. 125+00

PROJECT NO. **16-98**
DRAWING NO. **EXC-03**
SHEET NO. **03.014**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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-	-	-	-
-	-	-	-

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_EXC-04.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

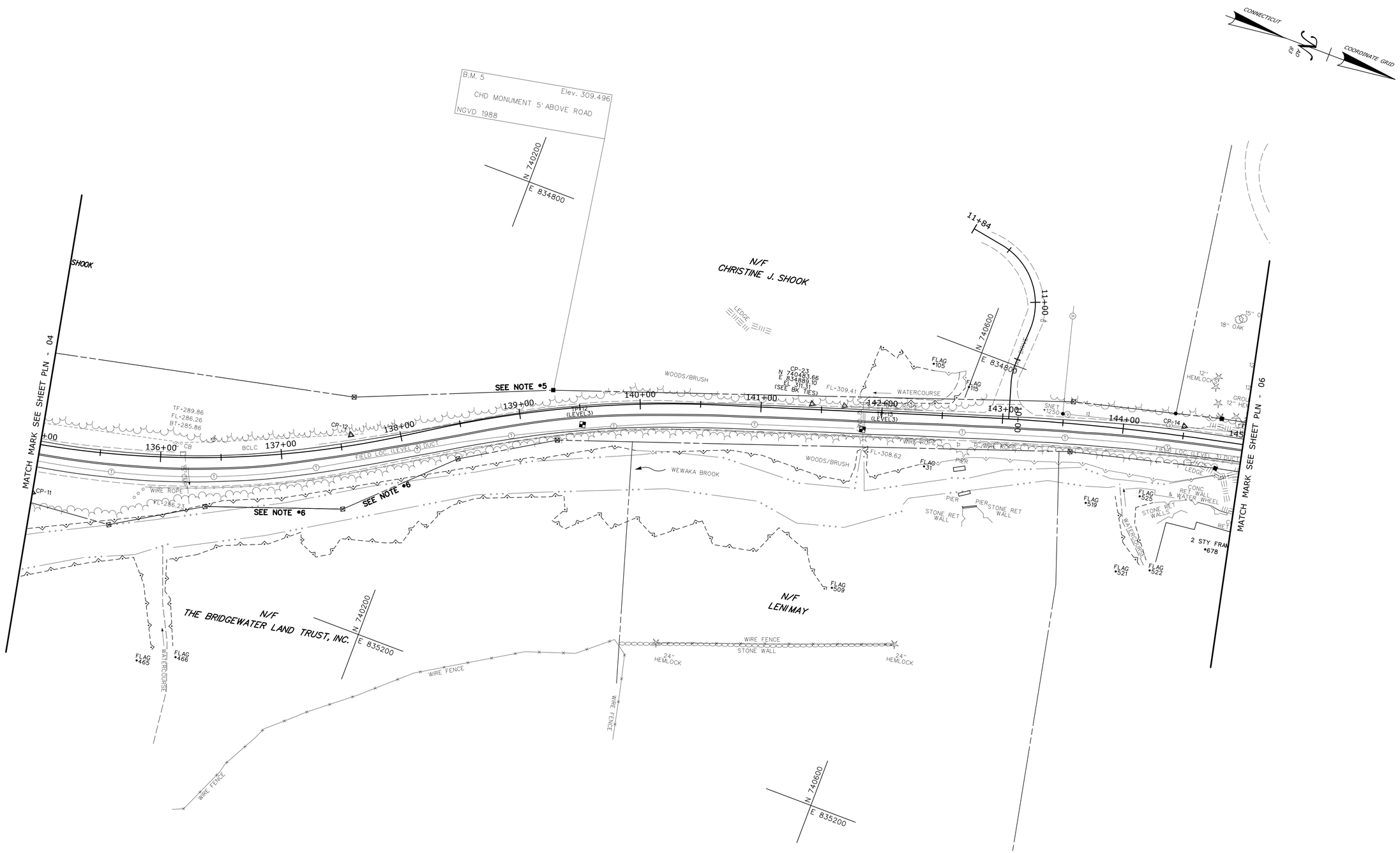
TOWN: **BRIDGEWATER**

DRAWING TITLE: **EXISTING CONDITIONS STA. 125+00 TO STA. 135+00**

PROJECT NO. **16-98**

DRAWING NO. **EXC-04**

SHEET NO. **03.015**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_EXC-05.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

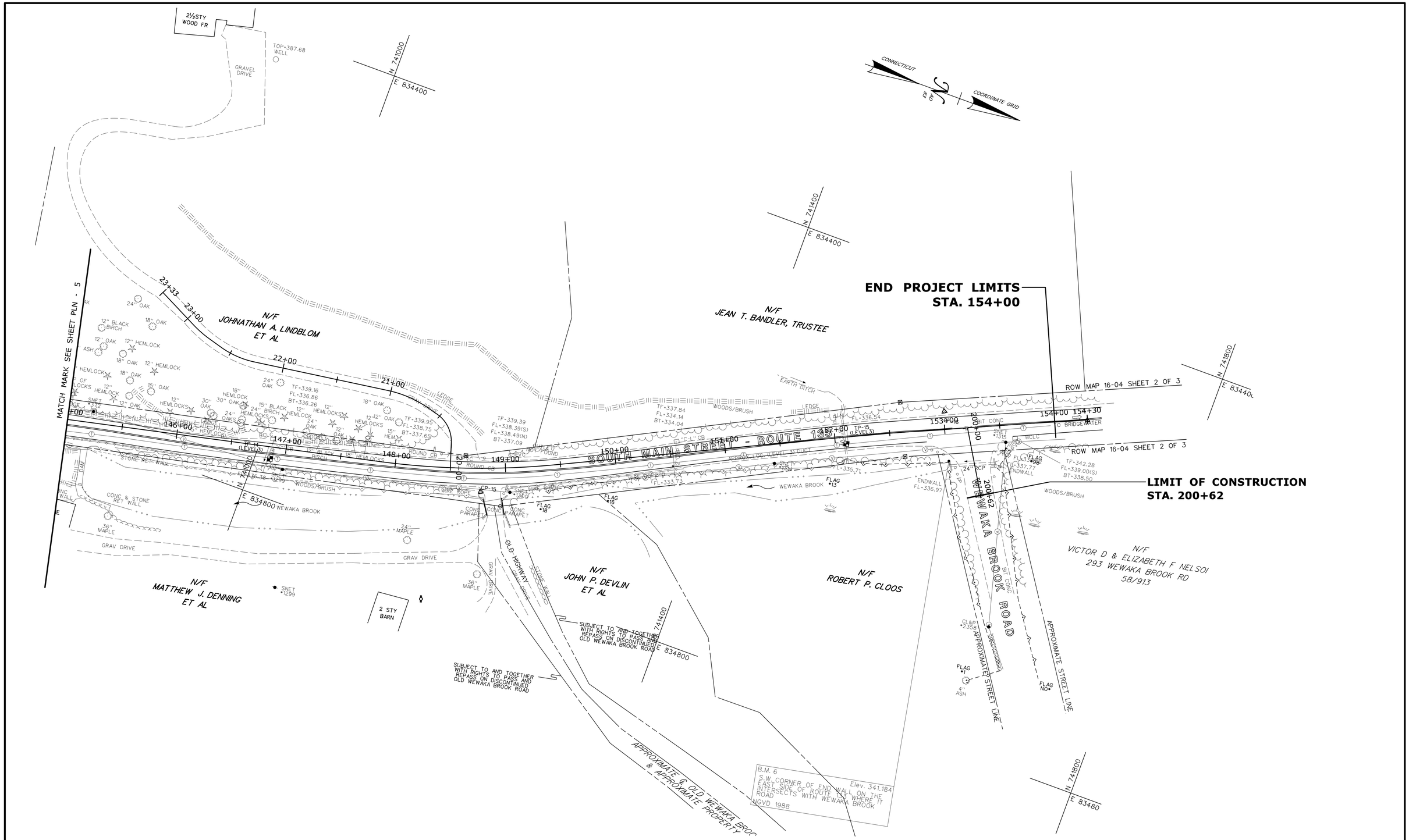
TOWN: **BRIDGEWATER**

DRAWING TITLE:
EXISTING CONDITIONS STA. 135+00 TO STA. 145+00

PROJECT NO. **16-98**

DRAWING NO. **EXC-05**

SHEET NO. **03.016**



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_EXC-06.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

TOWN: **BRIDGEWATER**

DRAWING TITLE: **EXISTING CONDITIONS STA. 145+00 TO STA. 154+00**

PROJECT NO. **16-98**

DRAWING NO. **EXC-06**

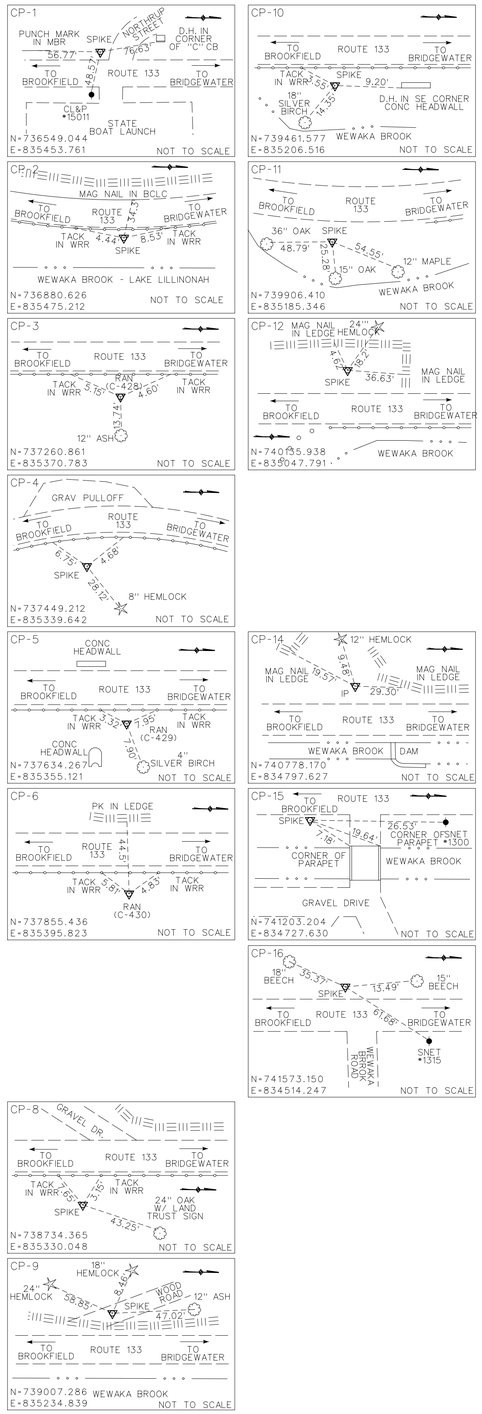
SHEET NO. **03.017**

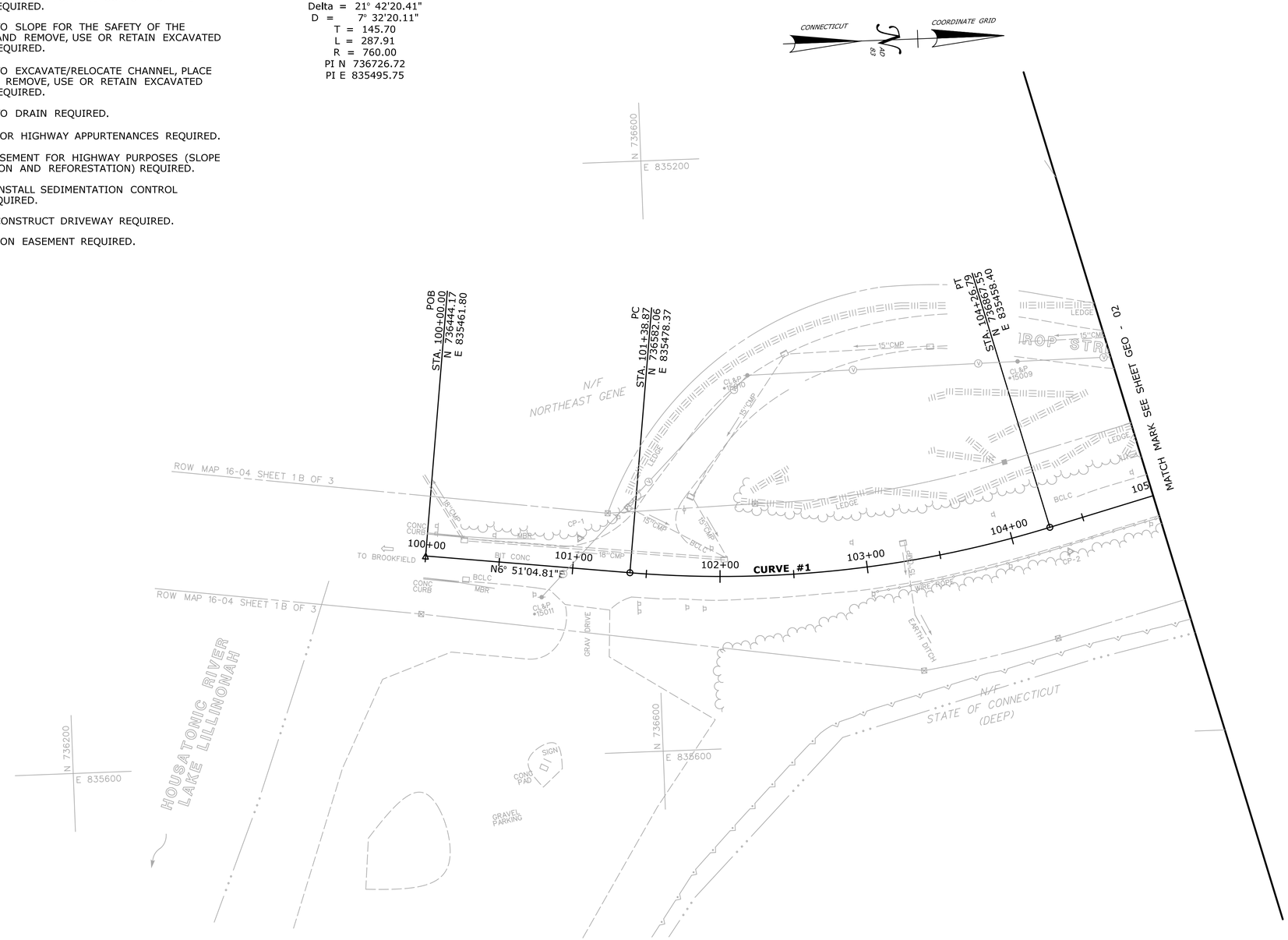
ROW LEGEND

- (A) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (B) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED.
- (C) EASEMENT TO EXCAVATE/RELOCATE CHANNEL, PLACE RIPRAP AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED.
- (D) EASEMENT TO DRAIN REQUIRED.
- (E) EASEMENT FOR HIGHWAY APPURTENANCES REQUIRED.
- (F) DEFINED EASEMENT FOR HIGHWAY PURPOSES (SLOPE STABILIZATION AND REFORESTATION) REQUIRED.
- (G) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (H) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (I) CONSTRUCTION EASEMENT REQUIRED.

CURVE DATA

CURVE #1
Delta = 21° 42'20.41"
D = 7° 32'20.11"
T = 145.70
L = 287.91
R = 760.00
PI N 736726.72
PI E 835495.75





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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**
CHECKED BY: **JDP**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_ALN-01.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

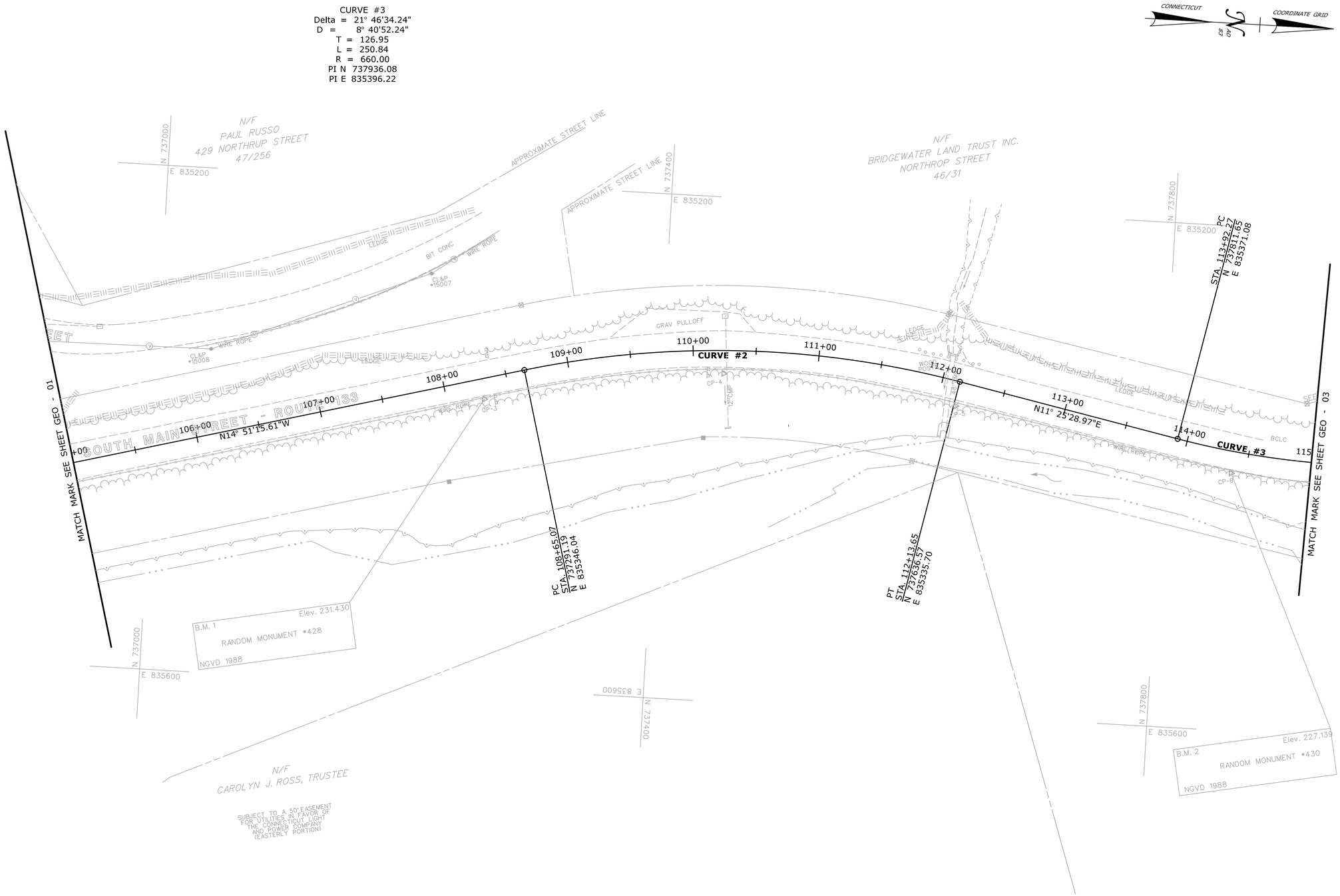
TOWN: **BRIDGEWATER**

DRAWING TITLE: **ALIGNMENT AND ROW STA. 100+00 TO STA. 105+00**

PROJECT NO. **16-98**
DRAWING NO. **ALN-01**
SHEET NO. **03.018**

CURVE DATA

CURVE #3
Delta = 21° 46'34.24"
D = 8° 40'52.24"
T = 126.95
L = 250.84
R = 660.00
PI N 737936.08
PI E 835396.22



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**
CHECKED BY: **JDP**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_ALN-02.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

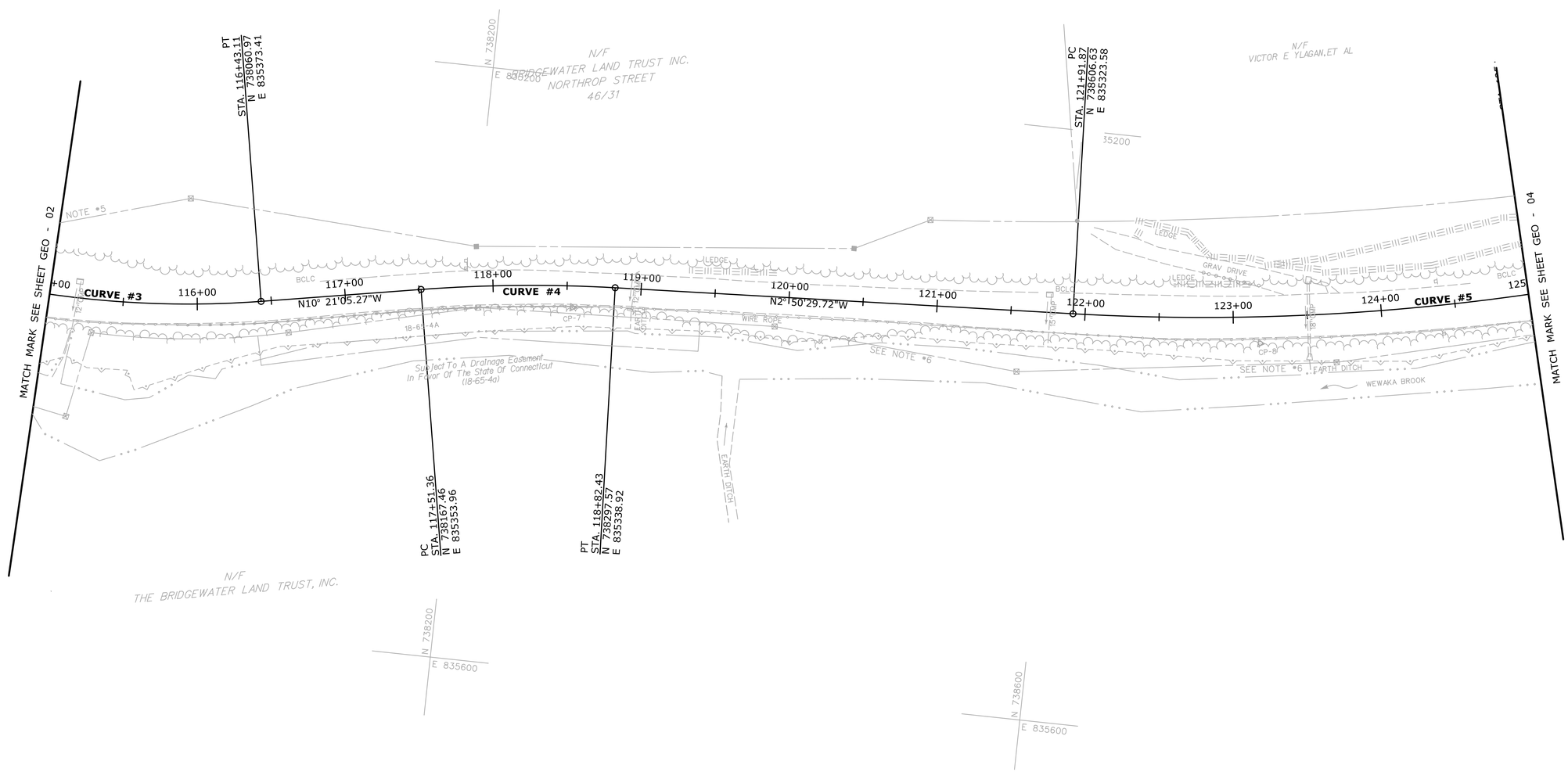
TOWN: **BRIDGEWATER**

DRAWING TITLE:
ALIGNMENT & ROW STA. 105+00 TO STA. 115+00

PROJECT NO. **16-98**
DRAWING NO. **ALN-02**
SHEET NO. **03.019**

CURVE DATA

CURVE #3	CURVE #4	CURVE #5
Delta = 21° 46'34.24"	Delta = 7° 30'35.55"	Delta = 11° 34'52.36"
D = 8° 40'52.24"	D = 5° 43'46.48"	D = 3° 41'47.41"
T = 126.95	T = 65.63	T = 157.19
L = 250.84	L = 131.07	L = 313.30
R = 660.00	R = 1000.00	R = 1550.00
PI N 737936.08	PI N 738232.02	PI N 738763.62
PI E 835396.22	PI E 835342.17	PI E 835315.78



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_ALN-03.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

TOWN: **BRIDGEWATER**

DRAWING TITLE: **ALIGNMENT & ROW STA. 115+00 TO STA. 125+00**

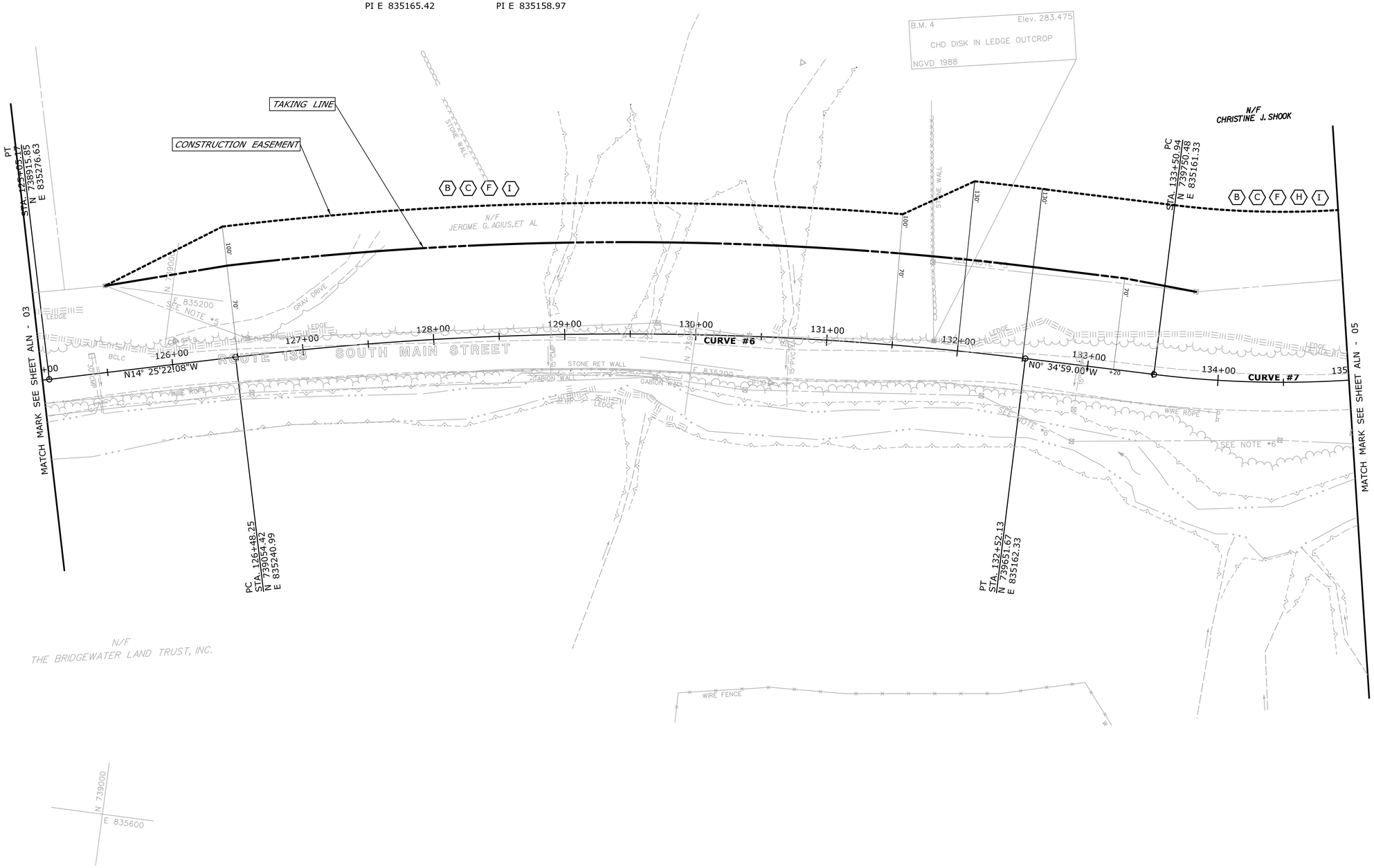
PROJECT NO. **16-98**

DRAWING NO. **ALN-03**

SHEET NO. **03.020**

CURVE DATA

CURVE #6	CURVE #7
Delta = 13° 50'23.08"	Delta = 32° 19'02.07"
D = 2° 17'30.59"	D = 7° 09'43.10"
T = 303.41	T = 231.80
L = 603.87	L = 451.23
R = 2500.00	R = 800.00
PI N 739348.27	PI N 739982.27
PI E 835165.42	PI E 835158.97



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_ALN-04.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

TOWN: **BRIDGEWATER**

DRAWING TITLE: **ALIGNMENT & ROW STA. 125+00 TO STA. 135+00**

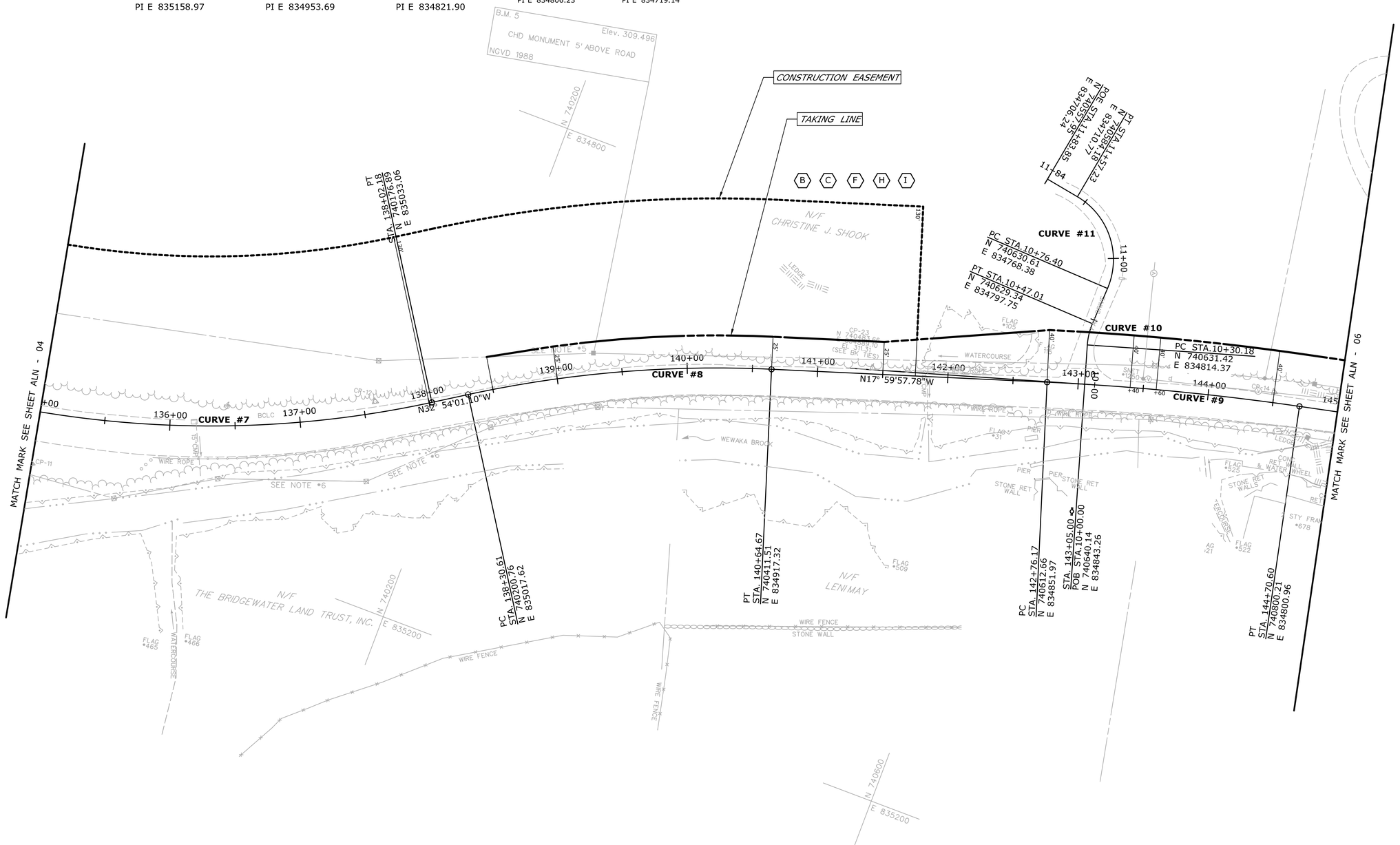
PROJECT NO. **16-98**

DRAWING NO. **ALN-04**

SHEET NO. **03.021**

CURVE DATA

CURVE #7	CURVE #8	CURVE #9	CURVE #10	CURVE #11
Delta = 32° 19'02.07"	Delta = 14° 54'03.28"	Delta = 5° 34'12.59"	Delta = 19° 16'58.74"	Delta = 82° 41'51.35"
D = 7° 09'43.10"	D = 6° 21'58.31"	D = 2° 51'53.24"	D = 114° 35'29.61"	D = 102° 18'50.01"
T = 231.80	T = 117.70	T = 97.29	T = 8.49	T = 49.28
L = 451.23	L = 234.06	L = 194.44	L = 16.83	L = 80.83
R = 800.00	R = 900.00	R = 2000.00	R = 50.00	R = 56.00
PI N 739982.27	PI N 740299.58	PI N 740705.19	PI N 740628.97	PI N 740632.75
PI E 835158.97	PI E 834953.69	PI E 834821.90	PI E 834806.23	PI E 834719.14



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_ALN-05.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

TOWN: **BRIDGEWATER**

DRAWING TITLE: **ALIGNMENT & ROW STA. 135+00 TO STA. 145+00**

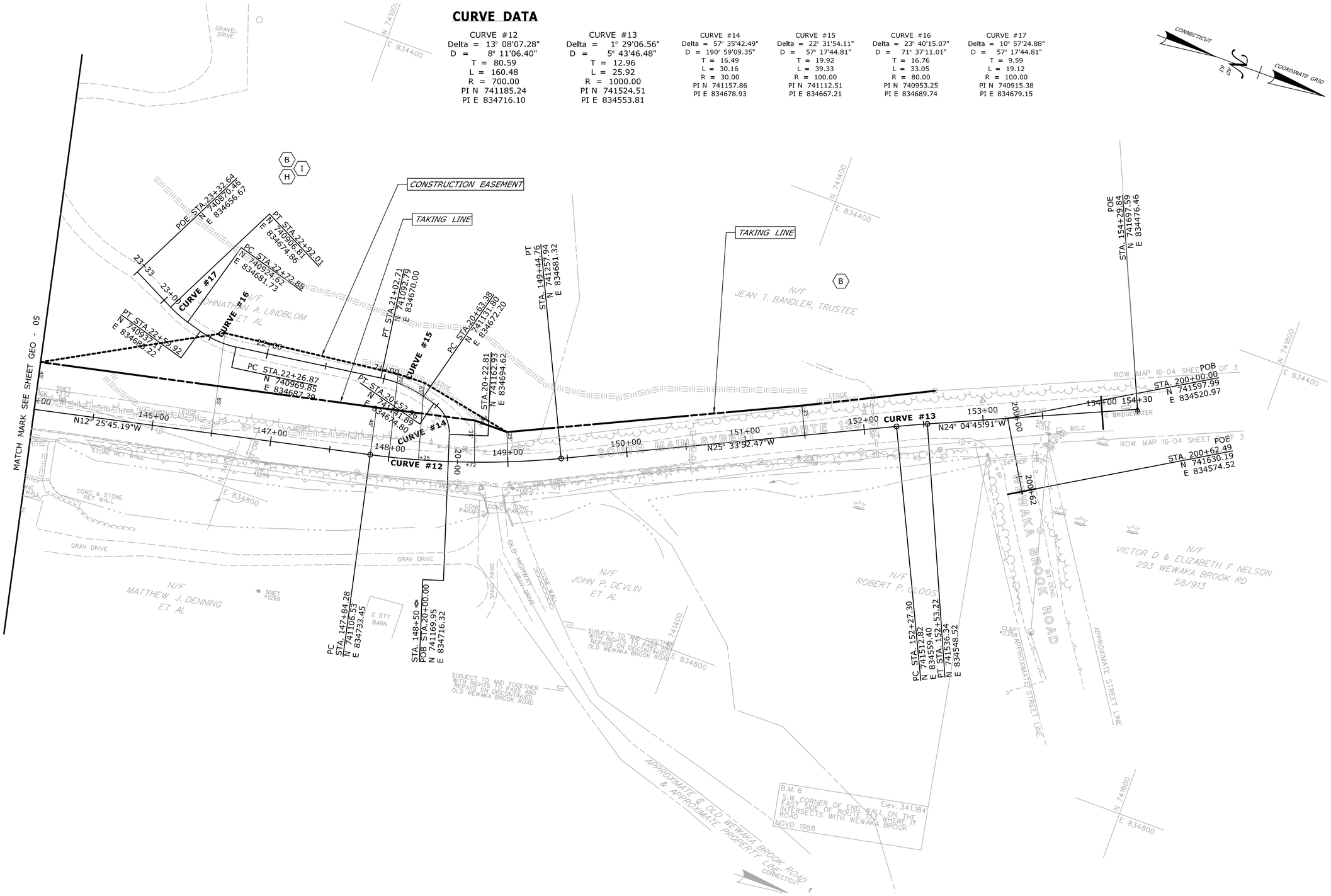
PROJECT NO. **16-98**

DRAWING NO. **ALN-05**

SHEET NO. **03.022**

CURVE DATA

CURVE #12	CURVE #13	CURVE #14	CURVE #15	CURVE #16	CURVE #17
Delta = 13° 08'07.28"	Delta = 1° 29'06.56"	Delta = 57° 35'42.49"	Delta = 22° 31'54.11"	Delta = 23° 40'15.07"	Delta = 10° 57'24.88"
D = 8° 11'06.40"	D = 5° 43'46.48"	D = 190° 59'09.35"	D = 57° 17'44.81"	D = 71° 37'11.01"	D = 57° 17'44.81"
T = 80.59	T = 12.96	T = 16.49	T = 19.92	T = 16.76	T = 9.59
L = 160.48	L = 25.92	L = 30.16	L = 39.33	L = 33.05	L = 19.12
R = 700.00	R = 1000.00	R = 30.00	R = 100.00	R = 80.00	R = 100.00
PI N 741185.24	PI N 741524.51	PI N 741157.86	PI N 741112.51	PI N 740953.25	PI N 740915.38
PI E 834716.10	PI E 834553.81	PI E 834678.93	PI E 834667.21	PI E 834689.74	PI E 834679.15



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_ALN-06.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

TOWN: **BRIDGEWATER**

DRAWING TITLE: **ALIGNMENT & ROW STA. 145+00 TO STA 154+30**

PROJECT NO. **16-98**

DRAWING NO. **ALN-06**

SHEET NO. **03.023**

GENERAL DRAINAGE NOTES:

1. THE REMOVAL OF EXISTING CULVERTS CALLED OUT ON THE PLANS AND AT LOCATIONS OF PROPOSED CULVERTS WILL BE PAID FOR AS TRENCH EXCAVATION AT THE APPLYING DEPTH.

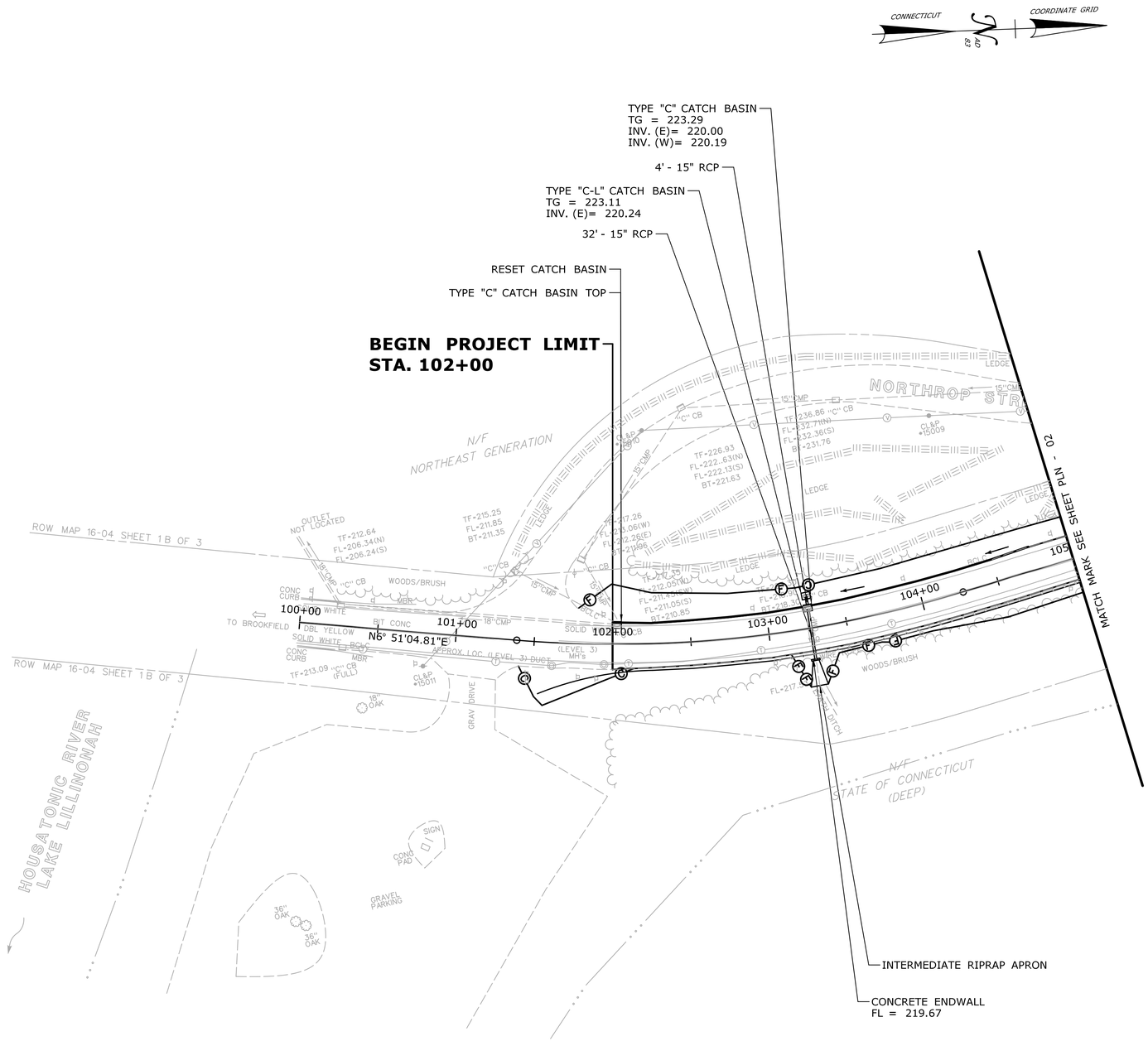
2. SEE THE MISCELLANEOUS DETAIL SHEETS AS INDICATED BELOW FOR ADDITIONAL DETAILS ON THE FOLLOWING DRAINAGE FEATURES:

   - SPECIAL CATCH BASINS - SEE MDS-01
   - INTERMEDIATE & MODIFIED RIPRAP APRONS - SEE MDS-02
   - INTERMEDIATE RIPRAP PREFORMED SCOUR HOLE - SEE MDS-02
   - INTERMEDIATE RIPRAP CHANNELS - SEE MDS-01 & MDS-02
   - CONCRETE ENDWALLS & WING TYPE ENDWALL - SEE MDS-03
   - SLOPE UNDERDRAIN - SEE MDS-04

3. 18" RCP FROM STA. 133+00-LT TO STA. 134+75-LT MUST BE INSTALLED PRIOR TO THE CONSTRUCTION OF CONCRETE STEPS AT STA. 133+46-LT.

4. CATCH BASIN GRATE TYPE "A" IS TO BE USED THROUGHOUT THE PROJECT. TYPE "C" CATCH BASIN TOPS SHALL MATCH ADJACENT CURBING IN ACCORDANCE WITH CTDOT STANDARD SHEET NO. HW-507 07.

5. ALL PROPOSED AND EXISTING CATCH BASINS IN AREAS DISTURBED BY CONSTRUCTION SHALL BE PROTECTED WITH APPROPRIATE SEDIMENTATION CONTROLS AS DETAILED IN THE "BEST MANAGEMENT PRACTICES" AS STATED IN THE ENVIRONMENTAL COMPLIANCE SECTION OF FORM 816 AND SUPPLEMENTAL SPECIFICATIONS DATED JULY 2015 OR AS DIRECTED BY THE ENGINEER. EROSION CONTROLS SHALL BE MAINTAINED UNTIL CONTRIBUTING DISTURBED AREAS ARE STABILIZED.



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Plotted Date: 3/21/2016

DESIGNER/DRAFTER: **EBS/KAM**
CHECKED BY: **JDP**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_DRG-01.dgn

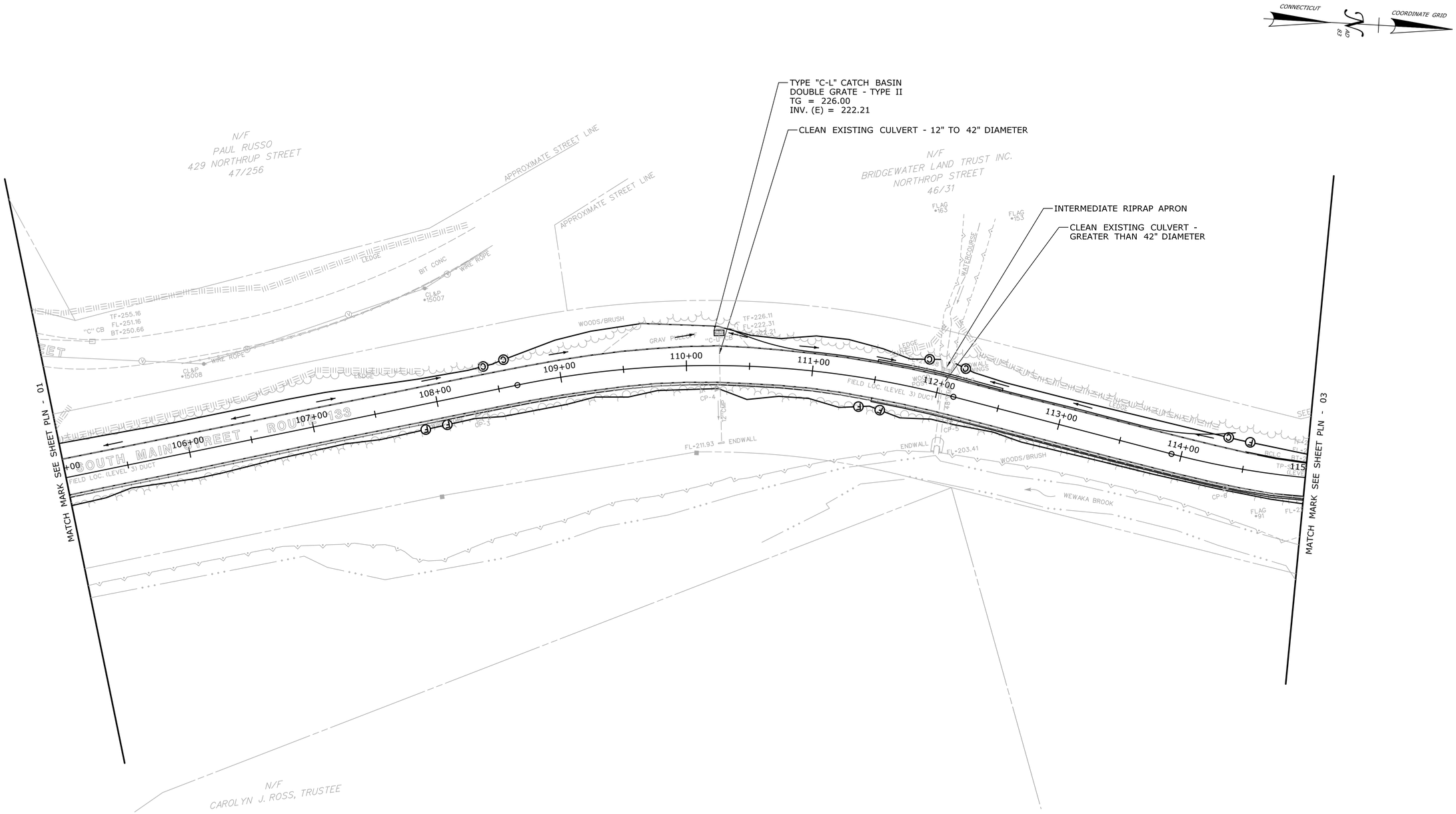
SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**
APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

TOWN: **BRIDGEWATER**

DRAWING TITLE: **DRAINAGE PLAN STA. 100+00 TO STA. 105+00**

PROJECT NO. **16-98**
DRAWING NO. **DRG-01**
SHEET NO. **03.024**



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS/KAM**

CHECKED BY: **JDP**

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_DRG-02.dgn

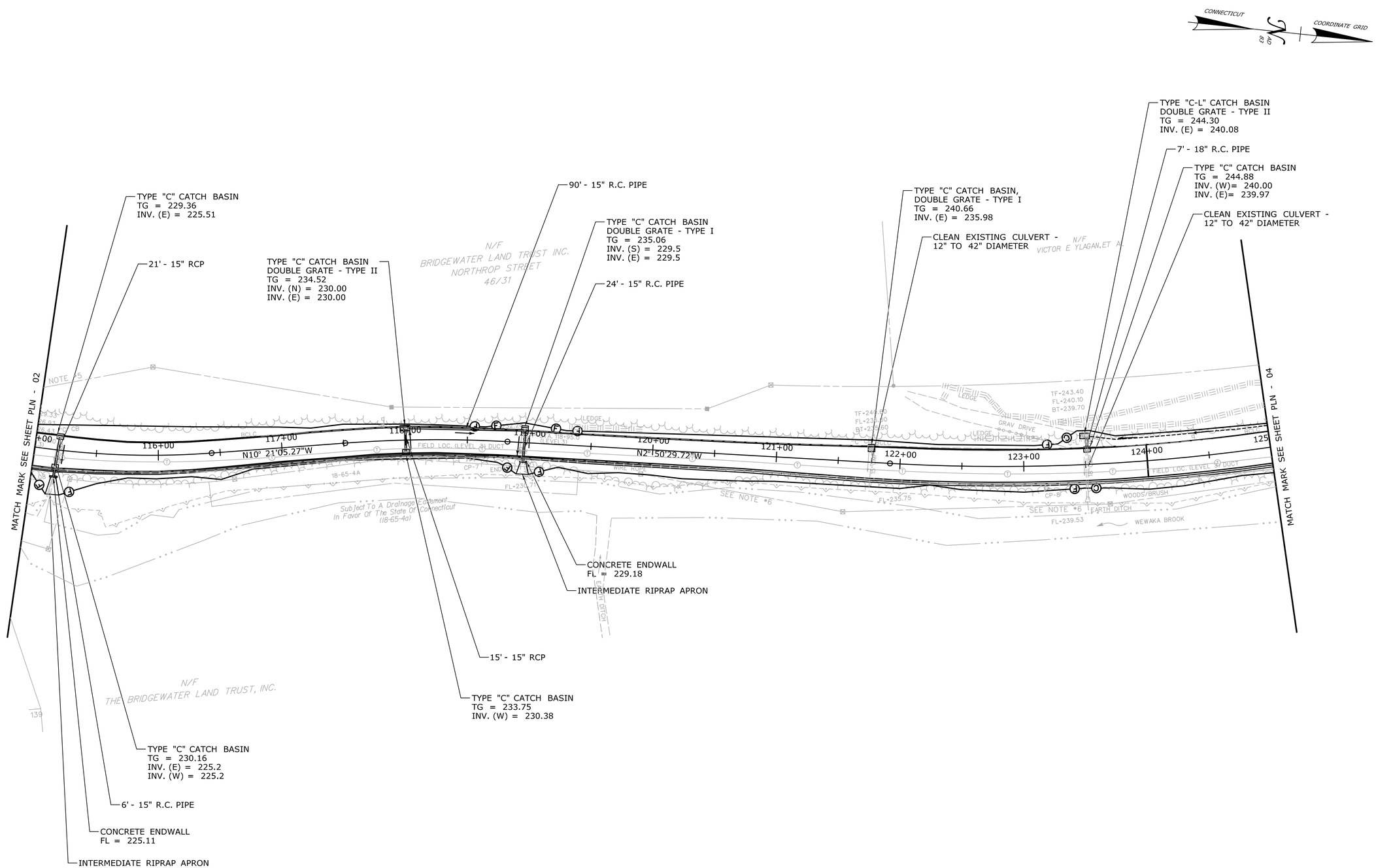
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE:
DRAINAGE PLAN
STA. 105+00 TO STA. 115+00

PROJECT NO. **16-98**
DRAWING NO. **DRG-02**
SHEET NO. **03.025**



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS/KAM**

CHECKED BY: **JDP**

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_DRG-03.dgn

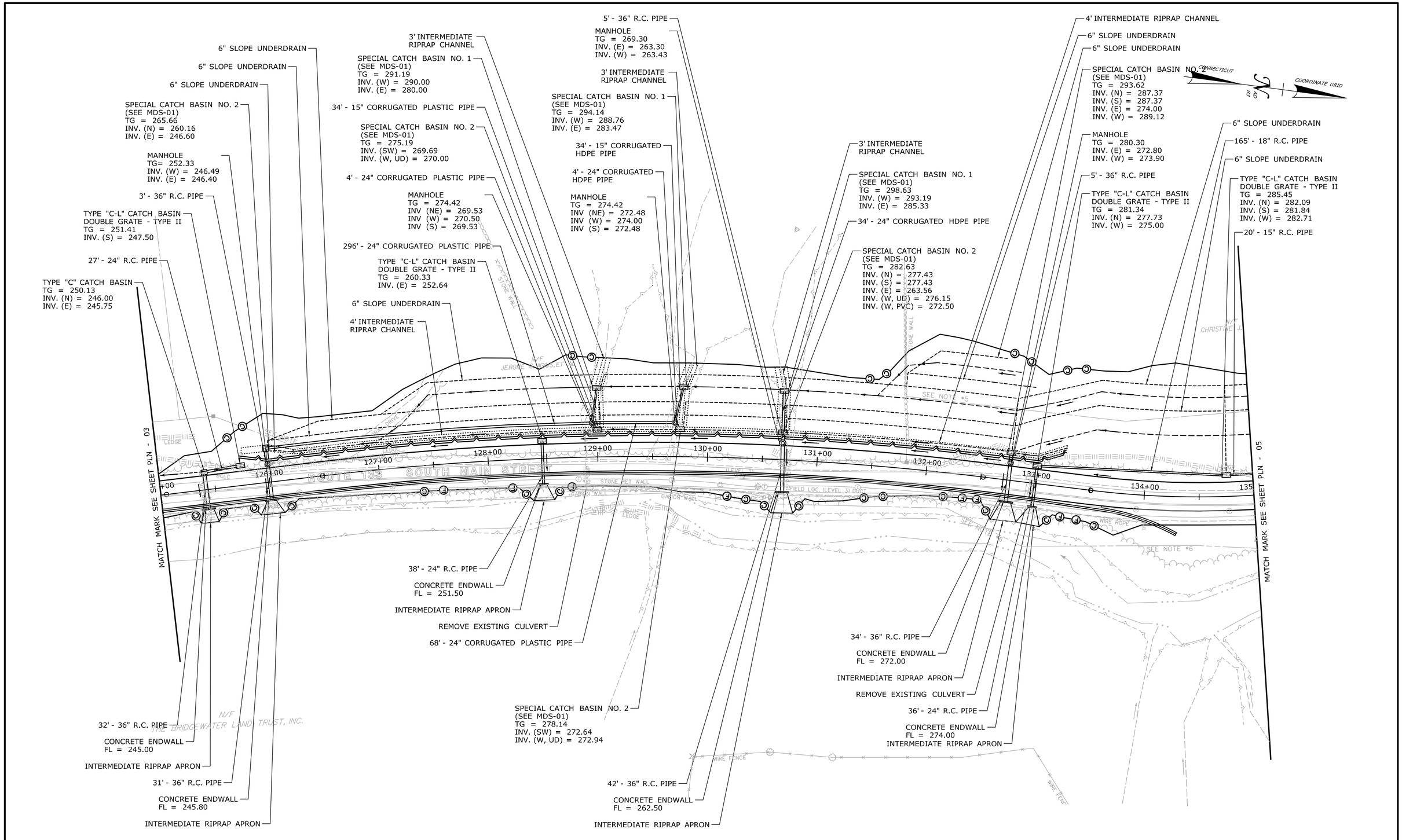
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE:
DRAINAGE PLAN
STA. 115+00 TO STA. 125+00

PROJECT NO. **16-98**
DRAWING NO. **DRG-03**
SHEET NO. **03.026**



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS/KAM**

CHECKED BY: **JDP**

SCALE IN FEET

0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_DRG-04.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

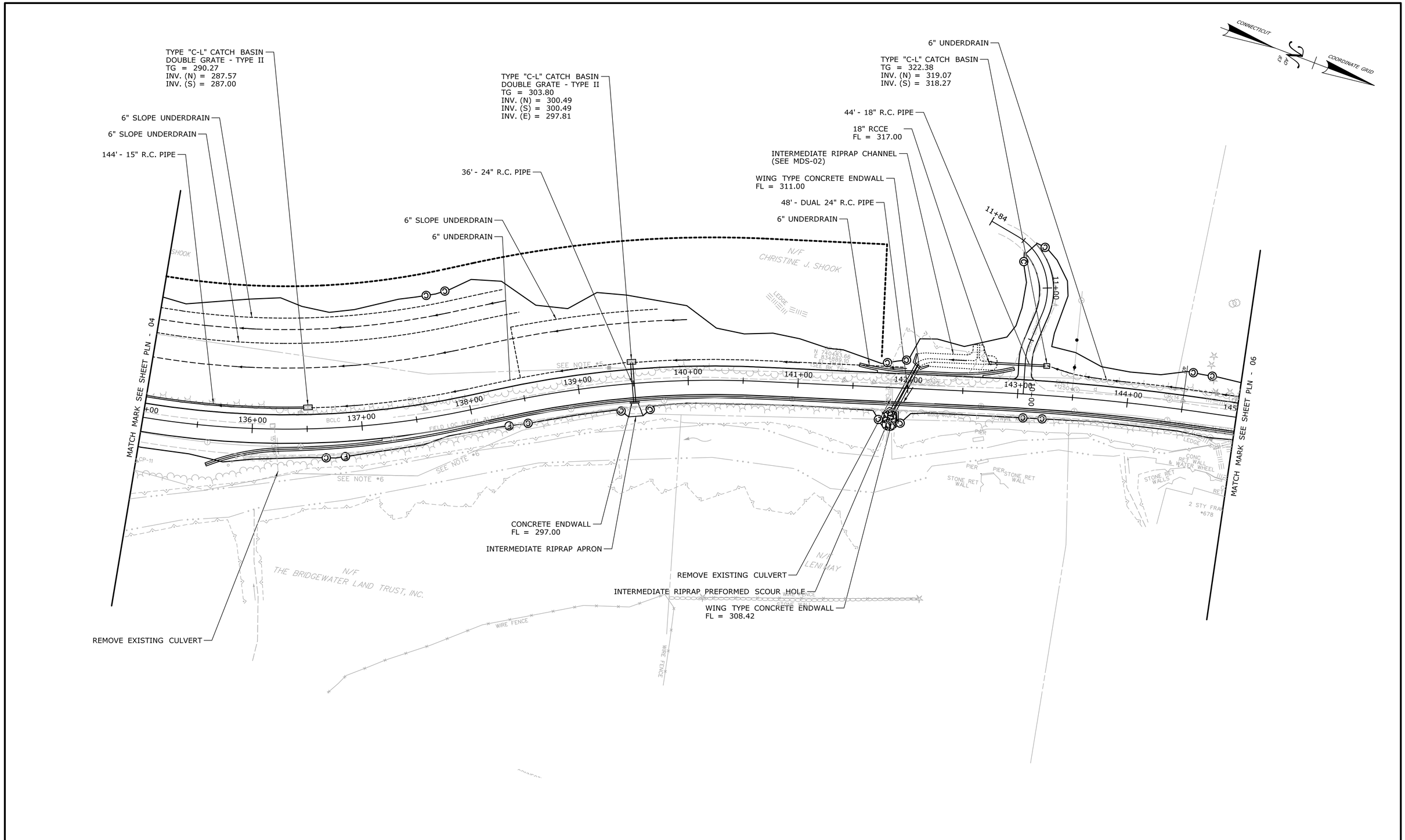
TOWN: **BRIDGEWATER**

DRAWING TITLE: **DRAINAGE PLAN STA. 125+00 TO STA. 135+00**

PROJECT NO. **16-98**

DRAWING NO. **DRG-04**

SHEET NO. **03.027**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS/KAM**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_DRG-05.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

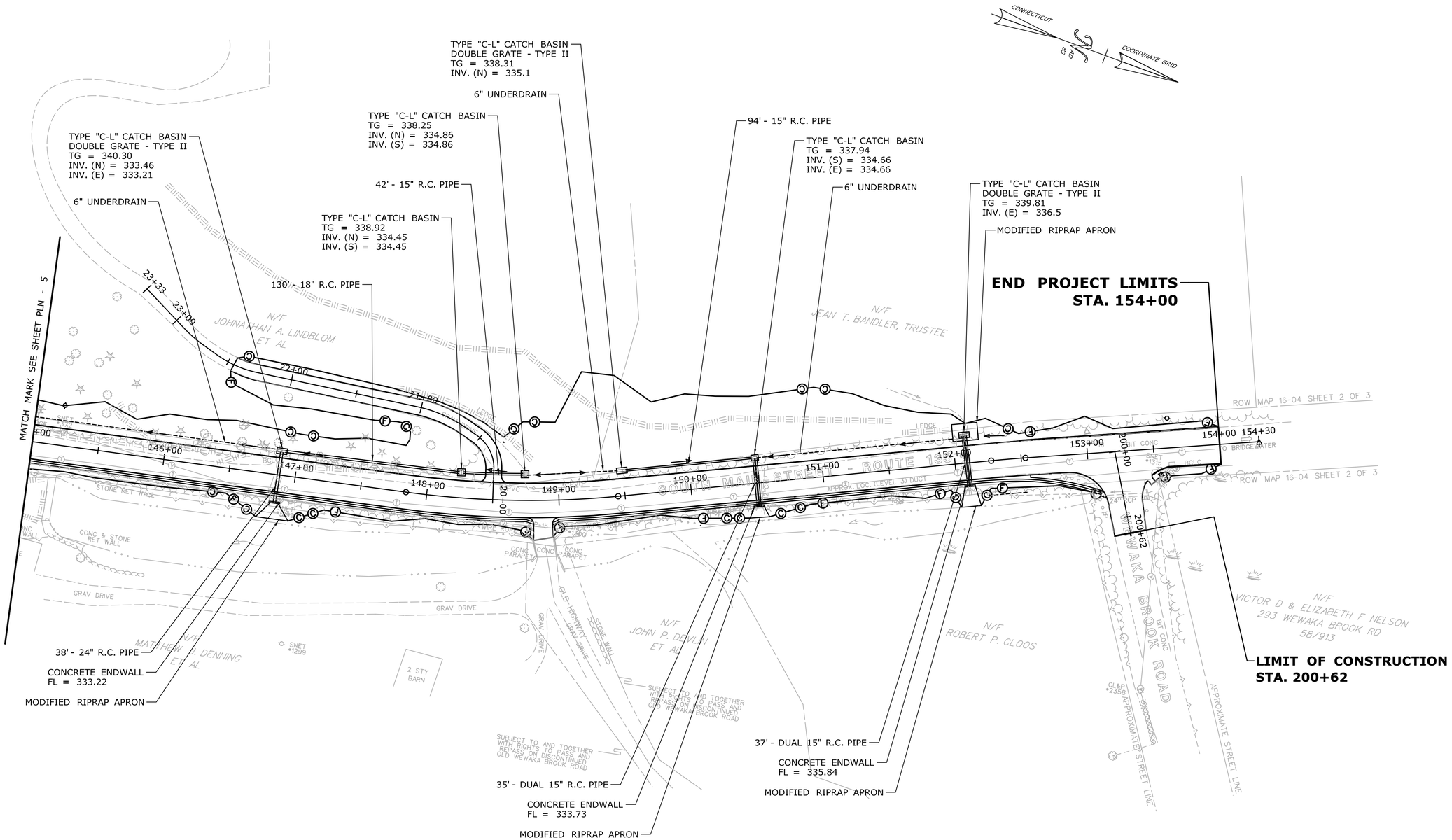
TOWN: **BRIDGEWATER**

DRAWING TITLE: **DRAINAGE PLAN STA. 135+00 TO STA. 145+00**

PROJECT NO. **16-98**

DRAWING NO. **DRG-05**

SHEET NO. **03.028**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS/KAM**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_DRG-06.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

TOWN: **BRIDGEWATER**

DRAWING TITLE: **DRAINAGE PLAN STA. 145+00 TO STA. 154+00**

PROJECT NO. **16-98**

DRAWING NO. **DRG-06**

SHEET NO. **03.029**

GENERAL NOTES

1. TURF ESTABLISHMENT AND EROSION CONTROLS SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS FOR PARTICULAR PAY ITEM, "BEST MANAGEMENT PRACTICES" AS STATED IN THE ENVIRONMENTAL COMPLIANCE SECTION OF FORM 816 AND SUPPLEMENTAL SPECIFICATIONS DATED JULY 2015.

2. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION AREA THROUGHOUT THE DURATION OF THE PROJECT. THIS WILL INCLUDE ALL MAINTENANCE RESPONSIBILITIES WITH THE EXCEPTION OF SNOW REMOVAL.

3. STRUCTURES AND PIPES SHALL BE CLEANED DURING CONSTRUCTION AS REQUIRED TO KEEP THE SYSTEM FUNCTIONING. ALL DRAINAGE STRUCTURES AND PIPES, INCLUDING ANY NEWLY INSTALLED WITH THE PROJECT AND NEW RIPRAP APRON, SHALL BE CLEANED AT THE END OF CONSTRUCTION.

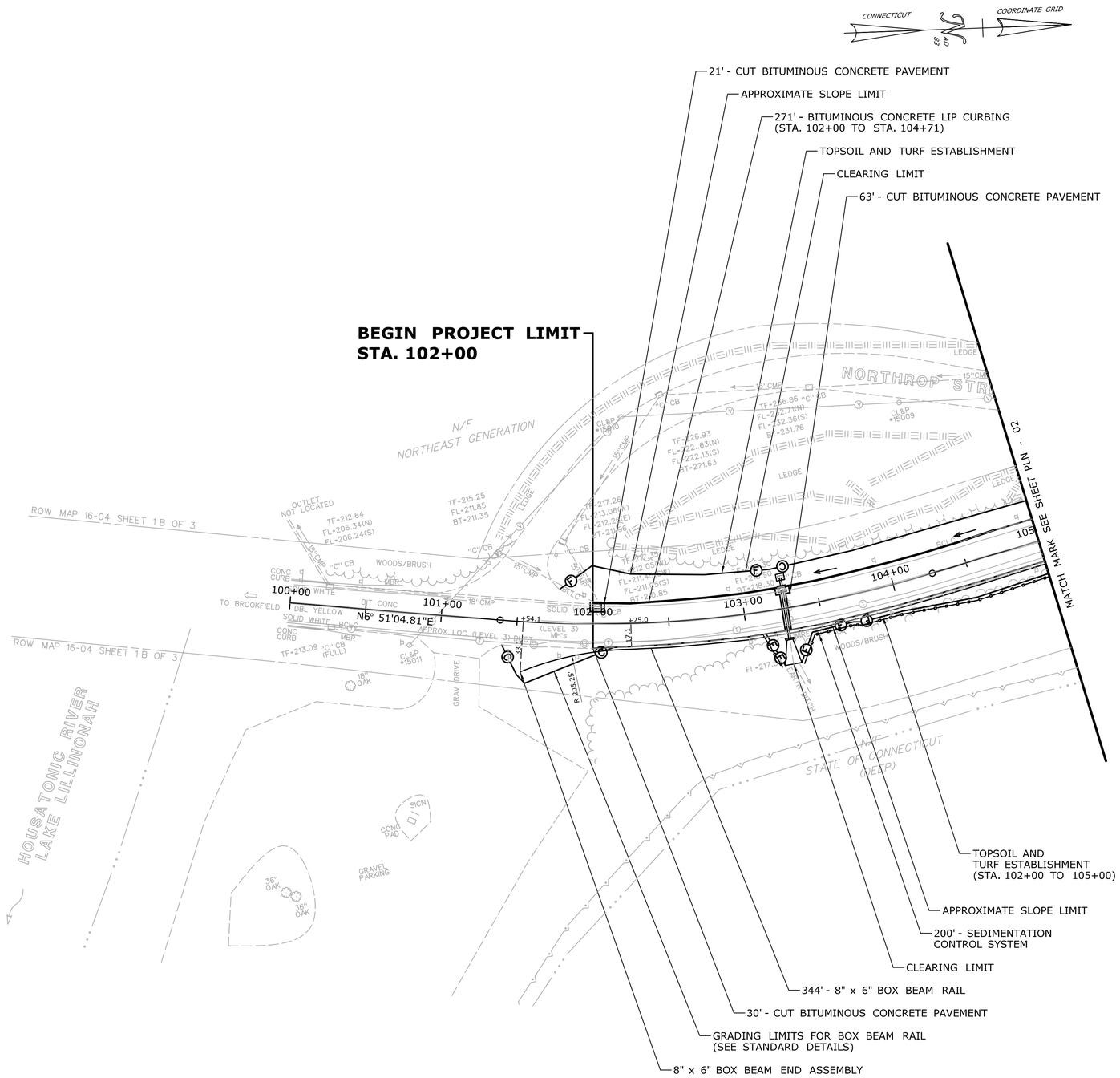
4. CONSTRUCTION OF DRIVEWAYS SHALL BE COORDINATED WITH THE PROPERTY OWNERS. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE MAINTENANCE AND PROTECTION OF TRAFFIC SPECIAL PROVISION.

5. ALL PLAN CALLOUTS INDICATING "BITUMINOUS CONCRETE DRIVEWAY" SHALL INCLUDE SAW CUTTING THE EXISTING DRIVEWAY TO MATCH THE PROPOSED DRIVEWAY WORK AS SHOWN ON THE PLANS AND CROSS SECTIONS. THE SAW CUTTING WILL BE INCLUDED IN THE COST OF THE "BITUMINOUS CONCRETE DRIVEWAY".

6. ALL DRIVEWAY CURB RETURN RADII SHALL BE 5' UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.

7. UTILITY POLES WITHIN THE PROJECT LIMITS ARE TO BE RELOCATED BY OTHERS, SEE UTILITY PLANS.

8. EXISTING ACCESS TO ADJACENT DRIVEWAYS (3) SHALL BE MAINTAINED AT ALL TIMES. MAINTAIN VEHICULAR ACCESS WITH EXISTING OR PROPOSED PAVEMENT AND PROCESSED AGGREGATE. THE COST OF FURNISHING, REGRADING, INSTALLING, AND REMOVING THIS MATERIAL SHALL BE PAID FOR UNDER CONTRACT ITEM NO. 0304002 - PROCESSED AGGREGATE.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**
CHECKED BY: **JDP**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0016_0098_PLN1.dgn

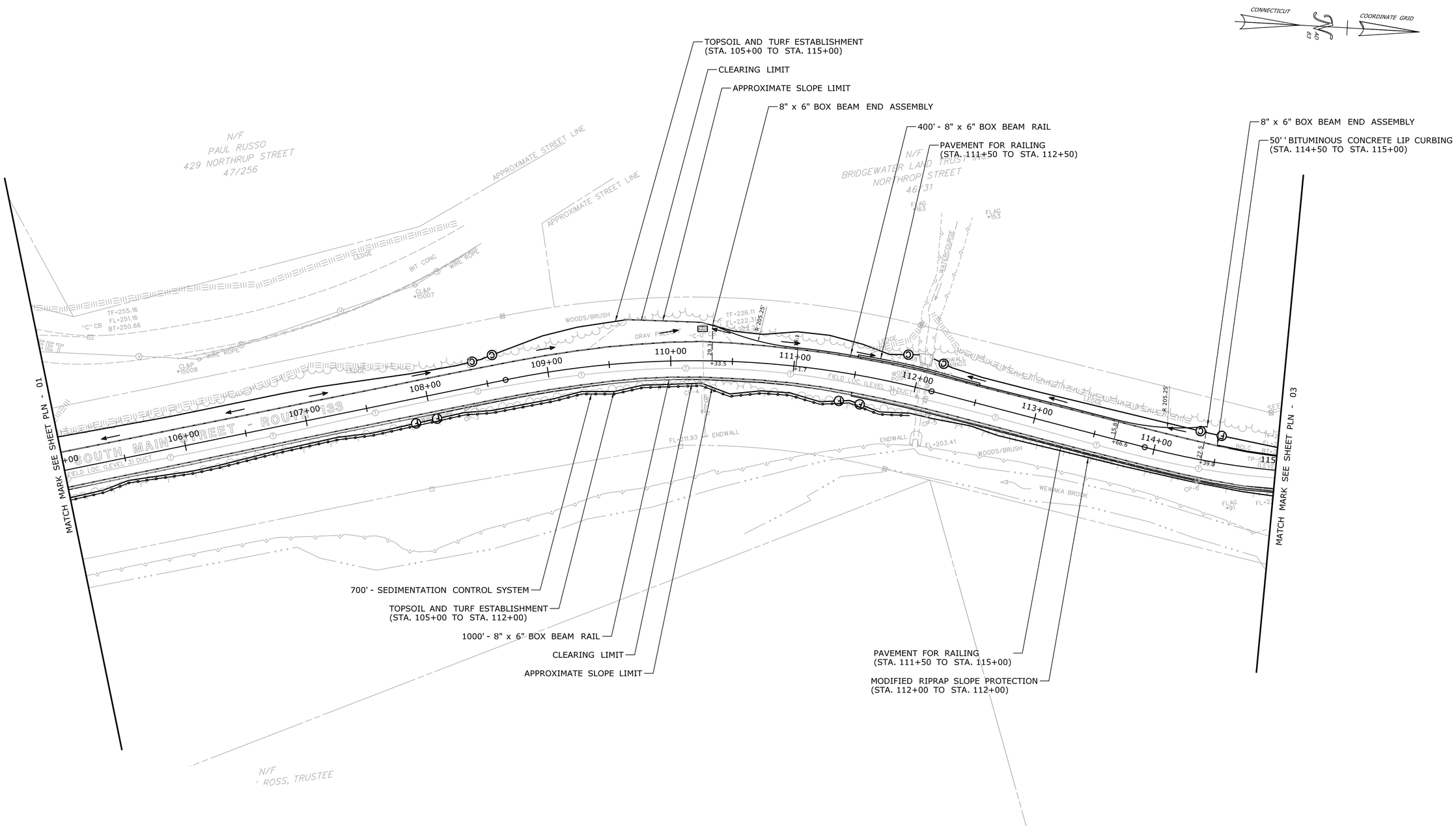
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE:
PLAN SHEET STA. 100+00 TO STA. 105+00

PROJECT NO. **16-98**
DRAWING NO. **PLN-01**
SHEET NO. **03.030**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0016_0098_PLN2.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

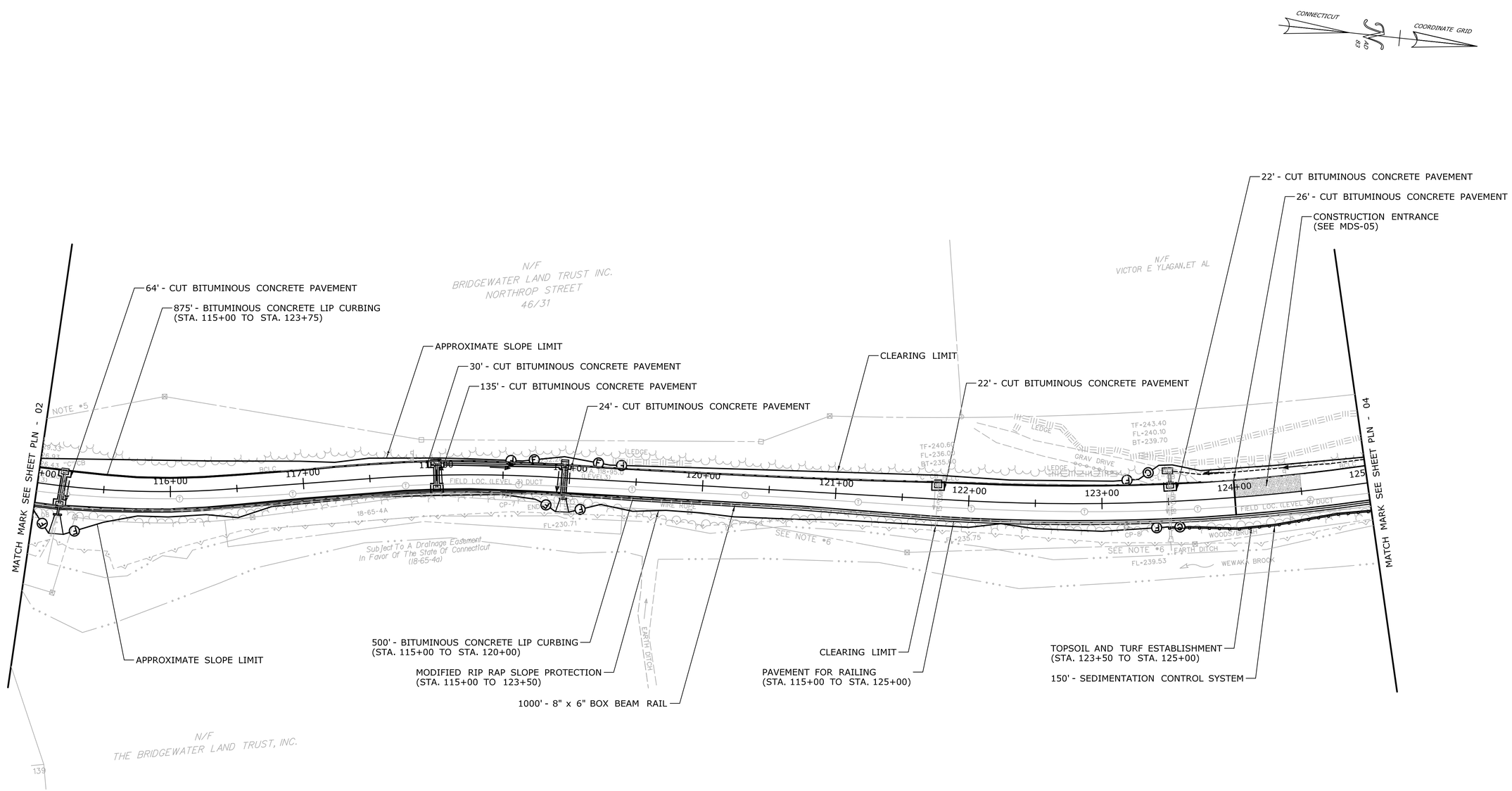
TOWN: **BRIDGEWATER**

DRAWING TITLE:
PLAN SHEET
STA. 105+00 TO STA. 115+00

PROJECT NO. **16-98**

DRAWING NO. **PLN-02**

SHEET NO. **03.031**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0016_0098_PLN3.dgn

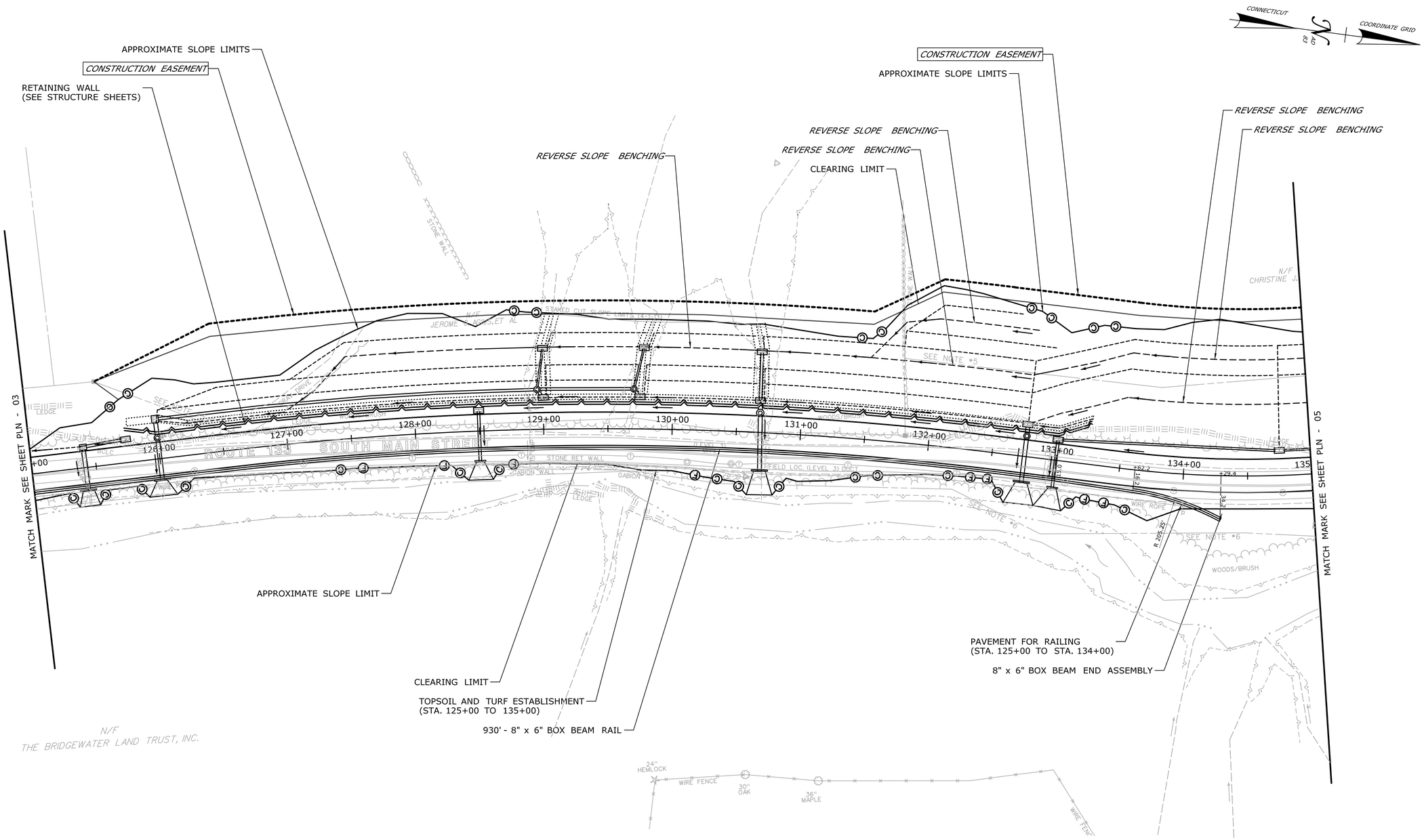
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE:
PLAN SHEET
STA. 115+00 TO STA. 125+00

PROJECT NO. **16-98**
DRAWING NO. **PLN-03**
SHEET NO. **03.032**



NOTES:

1. EROSION & SEDIMENTATION CONTROLS TO BE USED DURING CONSTRUCTION FOR STA. 125+00 THROUGH STA. 145+00 (PLN-04 & PLN-05) ARE SHOWN ON SHEETS SED-01 & SED-02.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0016_0098_PLN4.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

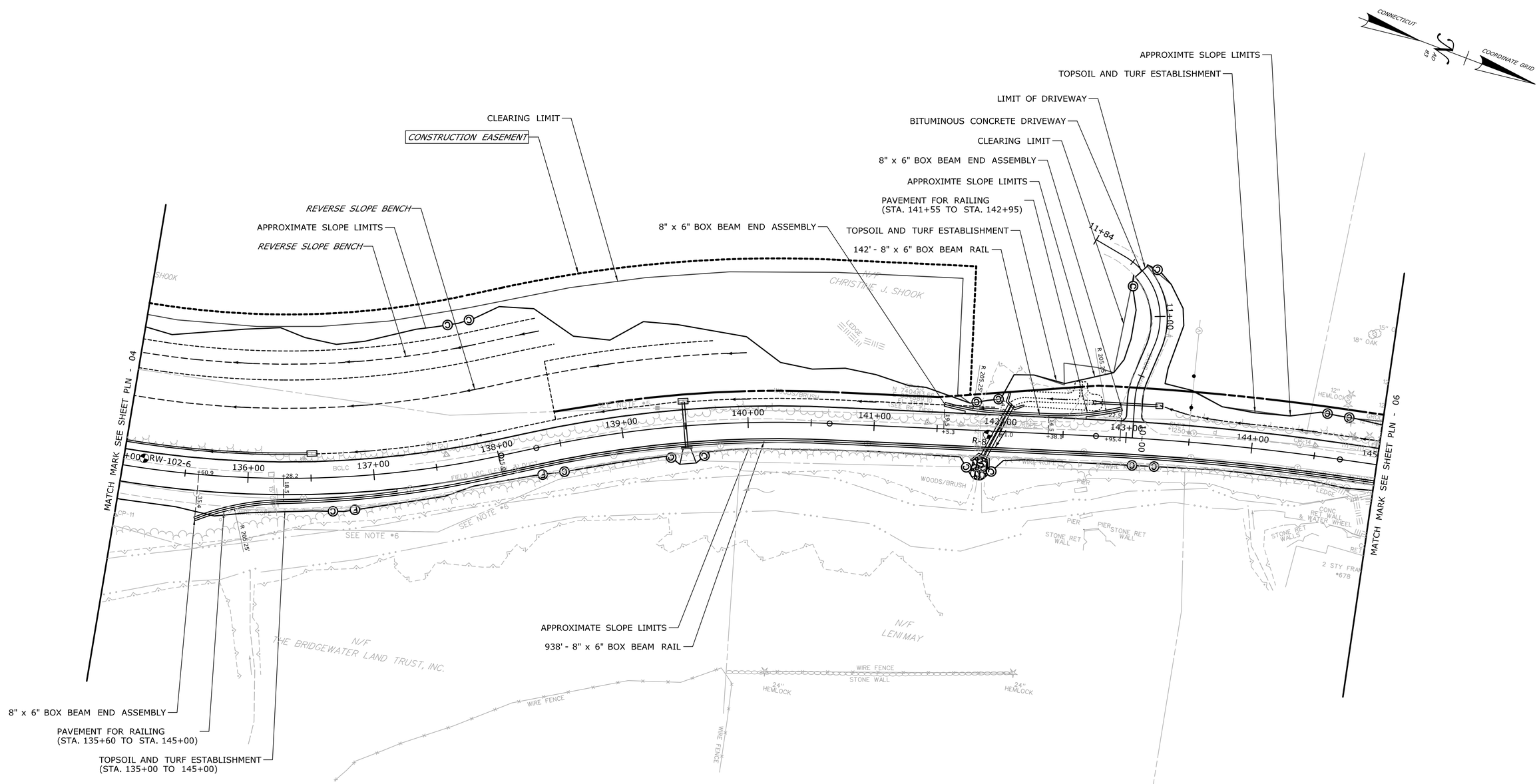
TOWN: **BRIDGEWATER**

DRAWING TITLE: **PLAN SHEET STA. 125+00 TO STA. 135+00**

PROJECT NO. **16-98**

DRAWING NO. **PLN-04**

SHEET NO. **03.033**



NOTES:

1. EROSION & SEDIMENTATION CONTROLS TO BE USED DURING CONSTRUCTION FOR STA. 125+00 THROUGH STA. 145+00 (PLN-04 & PLN-05) ARE SHOWN ON SHEETS SED-01 & SED-02.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0016_0098_PLN5.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

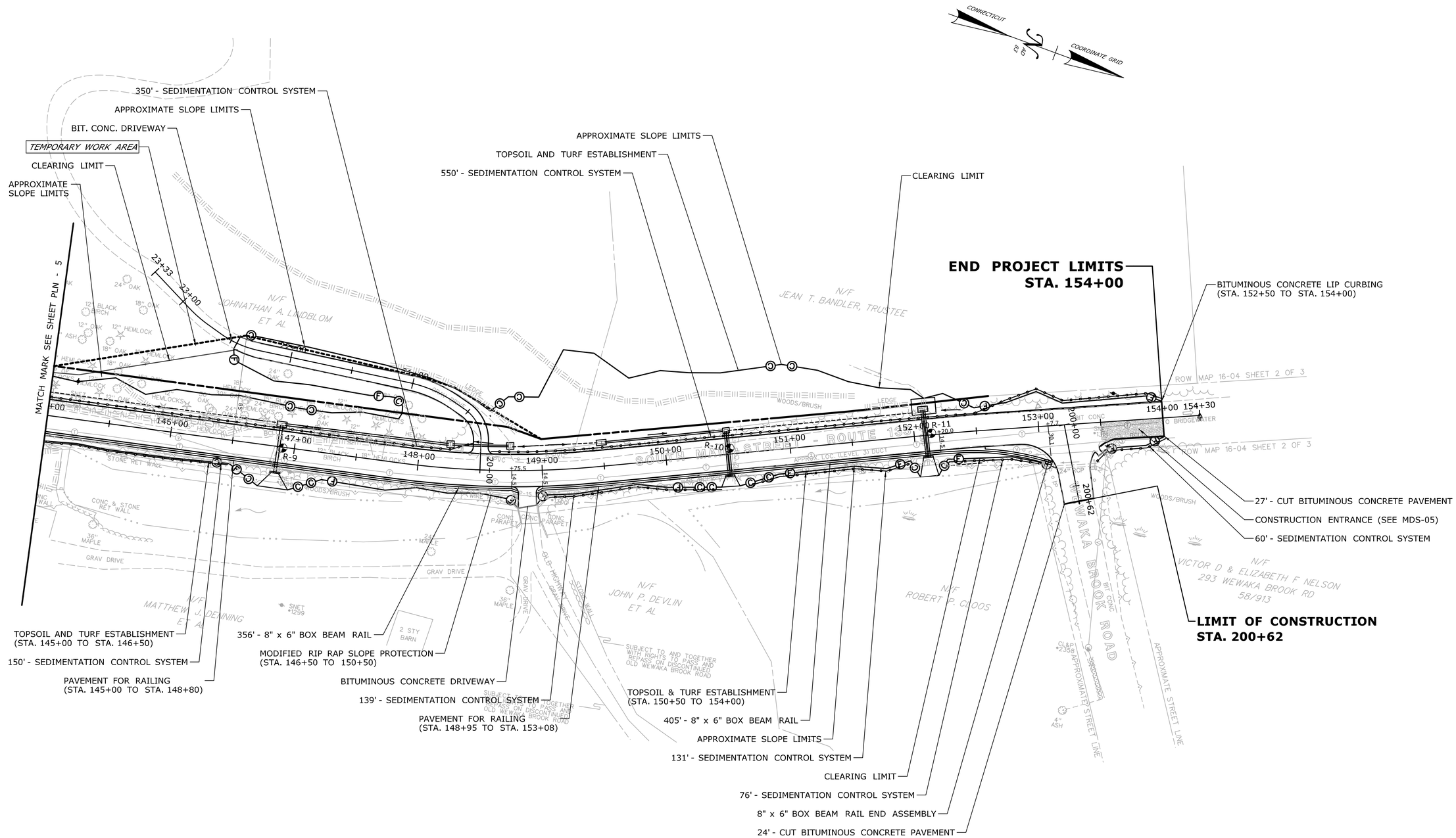
TOWN: **BRIDGEWATER**

DRAWING TITLE: **PLAN SHEET STA. 135+00 TO STA. 145+00**

PROJECT NO. **16-98**

DRAWING NO. **PLN-05**

SHEET NO. **03.034**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0016_0098_PLN6.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

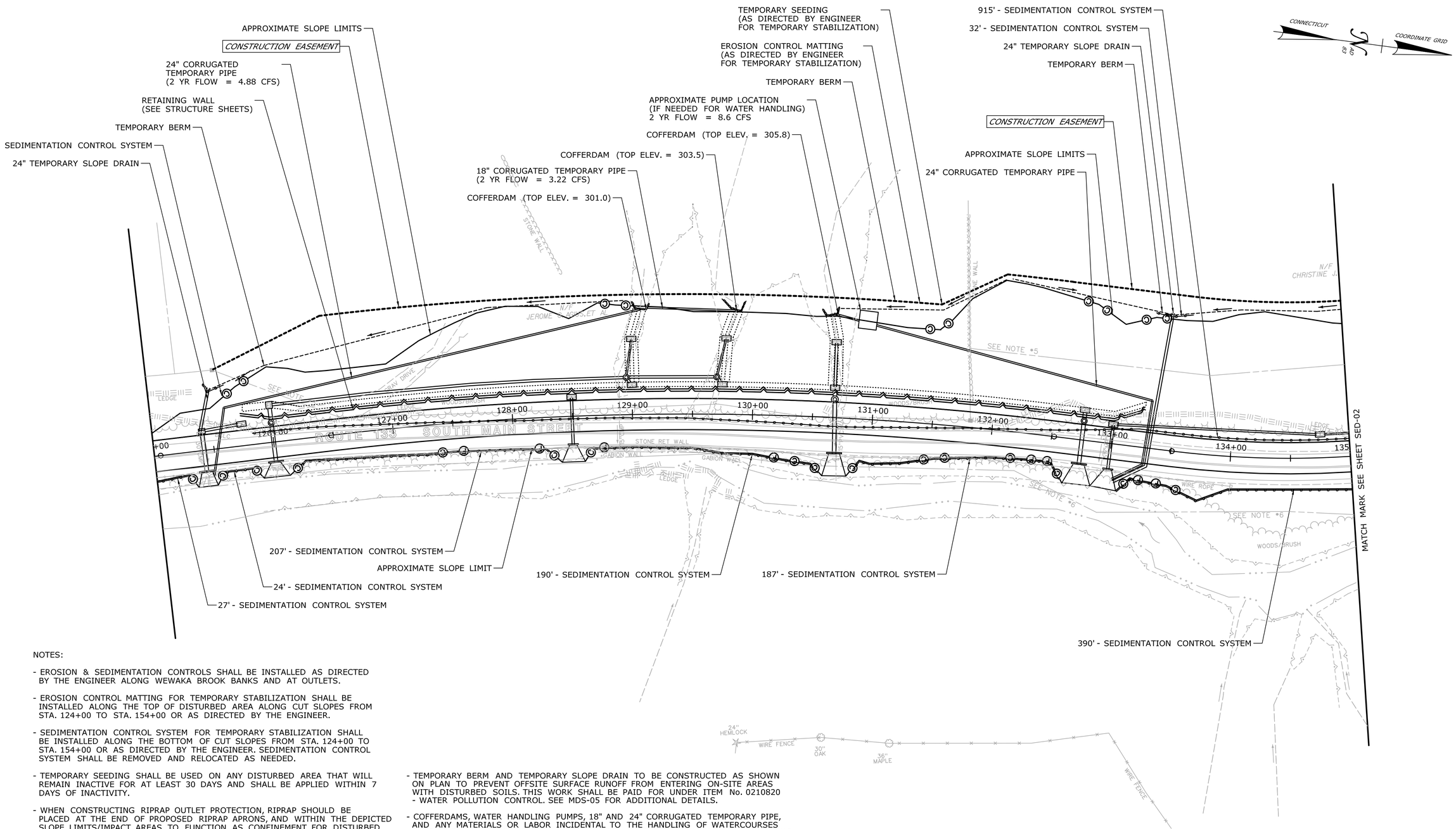
TOWN: **BRIDGEWATER**

DRAWING TITLE: **PLAN SHEET STA. 145+00 TO STA. 154+00**

PROJECT NO. **16-98**

DRAWING NO. **PLN-06**

SHEET NO. **03.035**



NOTES:

- EROSION & SEDIMENTATION CONTROLS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER ALONG WEWAKA BROOK BANKS AND AT OUTLETS.
- EROSION CONTROL MATTING FOR TEMPORARY STABILIZATION SHALL BE INSTALLED ALONG THE TOP OF DISTURBED AREA ALONG CUT SLOPES FROM STA. 124+00 TO STA. 154+00 OR AS DIRECTED BY THE ENGINEER.
- SEDIMENTATION CONTROL SYSTEM FOR TEMPORARY STABILIZATION SHALL BE INSTALLED ALONG THE BOTTOM OF CUT SLOPES FROM STA. 124+00 TO STA. 154+00 OR AS DIRECTED BY THE ENGINEER. SEDIMENTATION CONTROL SYSTEM SHALL BE REMOVED AND RELOCATED AS NEEDED.
- TEMPORARY SEEDING SHALL BE USED ON ANY DISTURBED AREA THAT WILL REMAIN INACTIVE FOR AT LEAST 30 DAYS AND SHALL BE APPLIED WITHIN 7 DAYS OF INACTIVITY.
- WHEN CONSTRUCTING RIPRAP OUTLET PROTECTION, RIPRAP SHOULD BE PLACED AT THE END OF PROPOSED RIPRAP APRONS, AND WITHIN THE DEPICTED SLOPE LIMITS/IMPACT AREAS, TO FUNCTION AS CONFINEMENT FOR DISTURBED SOILS DURING CONSTRUCTION OF OUTLET PROTECTION. WHEN THE OUTLET PROTECTION CONSTRUCTION HAS BEEN SUFFICIENTLY COMPLETED, THE EXCESS RIPRAP USED FOR CONFINEMENT WILL BE REGRADED INTO THE RIPRAP APRONS.
- INTERMEDIATE RIPRAP APRONS AT STA. 125+42 AND STA. 133+00 TO BE INSTALLED PRIOR TO INTRODUCTION OF WATER HANDLING FLOWS
- TEMPORARY BERM AND TEMPORARY SLOPE DRAIN TO BE CONSTRUCTED AS SHOWN ON PLAN TO PREVENT OFFSITE SURFACE RUNOFF FROM ENTERING ON-SITE AREAS WITH DISTURBED SOILS. THIS WORK SHALL BE PAID FOR UNDER ITEM No. 0210820 - WATER POLLUTION CONTROL. SEE MDS-05 FOR ADDITIONAL DETAILS.
- COFFERDAMS, WATER HANDLING PUMPS, 18" AND 24" CORRUGATED TEMPORARY PIPE, AND ANY MATERIALS OR LABOR INCIDENTAL TO THE HANDLING OF WATERCOURSES AS SHOWN ON THE PLANS SHALL BE PAID FOR UNDER ITEM No. 0204151 - HANDLING WATER.
- DESIGN, LOCATION AND SIZING OF CONCRETE WASHOUT AREA(S) TO BE APPROVED BY THE ENGINEER.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_SED-01.dgn

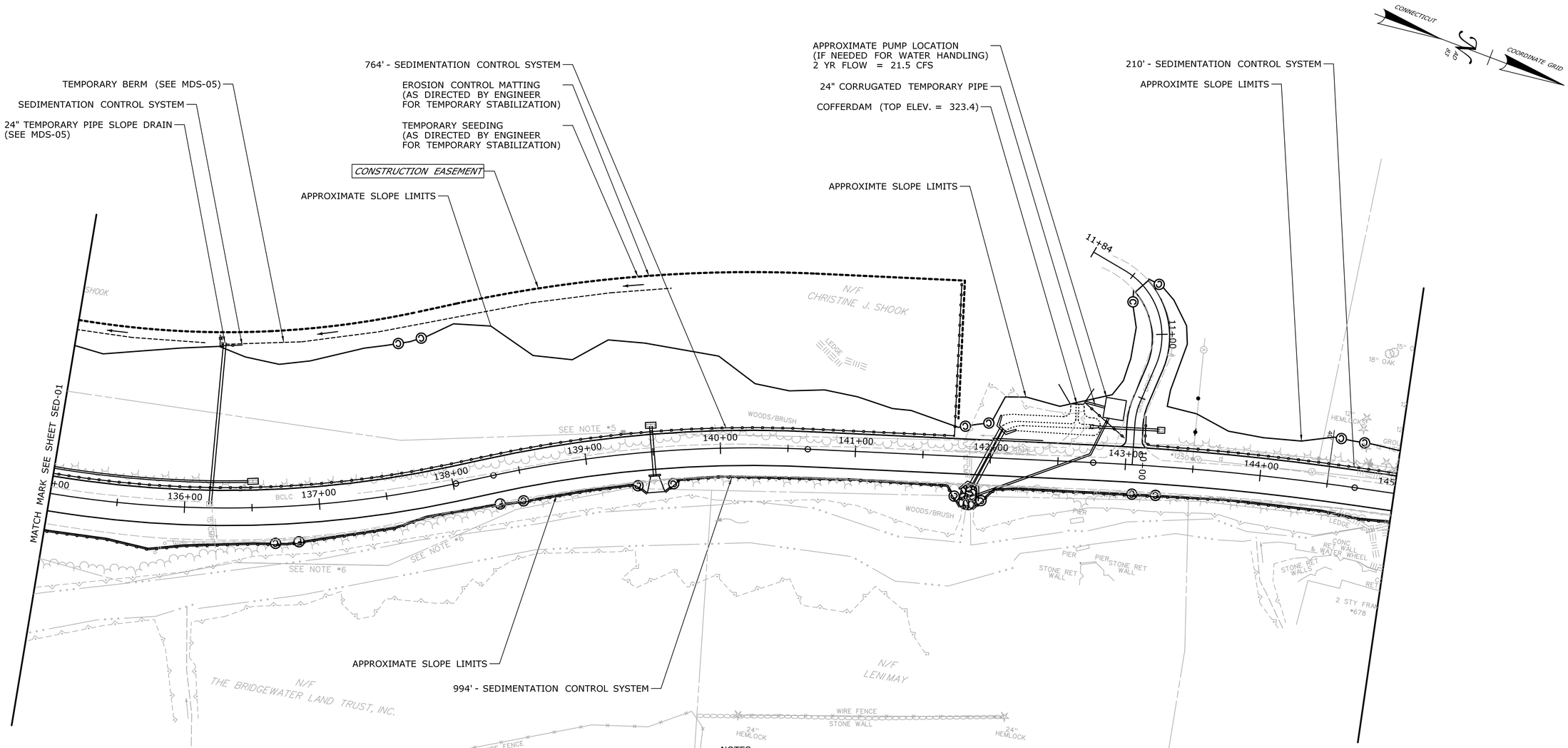
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: E&S & WATER HANDLING STA. 125+00 TO STA. 135+00

PROJECT NO. 16-98
DRAWING NO. SED-01
SHEET NO. 03.036



NOTES:

- EROSION & SEDIMENTATION CONTROLS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER ALONG WEWAKA BROOK BANKS AND AT OUTLETS.
- EROSION CONTROL MATTING FOR TEMPORARY STABILIZATION SHALL BE INSTALLED ALONG THE TOP OF DISTURBED AREA ALONG CUT SLOPES FROM STA. 124+00 TO STA. 154+00 OR AS DIRECTED BY THE ENGINEER.
- SEDIMENTATION CONTROL SYSTEM FOR TEMPORARY STABILIZATION SHALL BE INSTALLED ALONG THE BOTTOM OF CUT SLOPES FROM STA. 124+00 TO STA. 154+00 OR AS DIRECTED BY THE ENGINEER. SEDIMENTATION CONTROL SYSTEM SHALL BE REMOVED AND RELOCATED AS NEEDED.
- TEMPORARY SEEDING SHALL BE USED ON ANY DISTURBED AREA THAT WILL REMAIN INACTIVE FOR AT LEAST 30 DAYS AND SHALL BE APPLIED WITHIN 7 DAYS OF INACTIVITY.
- WHEN CONSTRUCTING RIPRAP OUTLET PROTECTION, RIPRAP SHOULD BE PLACED AT THE END OF PROPOSED RIPRAP APRONS, AND WITHIN THE DEPICTED SLOPE LIMITS/IMPACT AREAS, TO FUNCTION AS CONFINEMENT FOR DISTURBED SOILS DURING CONSTRUCTION OF OUTLET PROTECTION. WHEN THE OUTLET PROTECTION CONSTRUCTION HAS BEEN SUFFICIENTLY COMPLETED, THE EXCESS RIPRAP USED FOR CONFINEMENT WILL BE REGRADED INTO THE RIPRAP APRONS.
- INTERMEDIATE RIPRAP APRONS AT STA. 125+42 AND STA. 133+00 TO BE INSTALLED PRIOR TO INTRODUCTION OF WATER HANDLING FLOWS
- TEMPORARY BERM AND TEMPORARY SLOPE DRAIN TO BE CONSTRUCTED AS SHOWN ON PLAN TO PREVENT OFFSITE SURFACE RUNOFF FROM ENTERING ON-SITE AREAS WITH DISTURBED SOILS. THIS WORK SHALL BE PAID FOR UNDER ITEM No. 0210820 - WATER POLLUTION CONTROL. SEE MDS-05 FOR ADDITIONAL DETAILS.
- COFFERDAMS, WATER HANDLING PUMPS, 18" AND 24" CORRUGATED TEMPORARY PIPE, AND ANY MATERIALS OR LABOR INCIDENTAL TO THE HANDLING OF WATERCOURSES AS SHOWN ON THE PLANS SHALL BE PAID FOR UNDER ITEM No. 0204151 - HANDLING WATER.
- DESIGN, LOCATION AND SIZING OF CONCRETE WASHOUT AREA(S) TO BE APPROVED BY THE ENGINEER.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_SED-02.dgn

SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

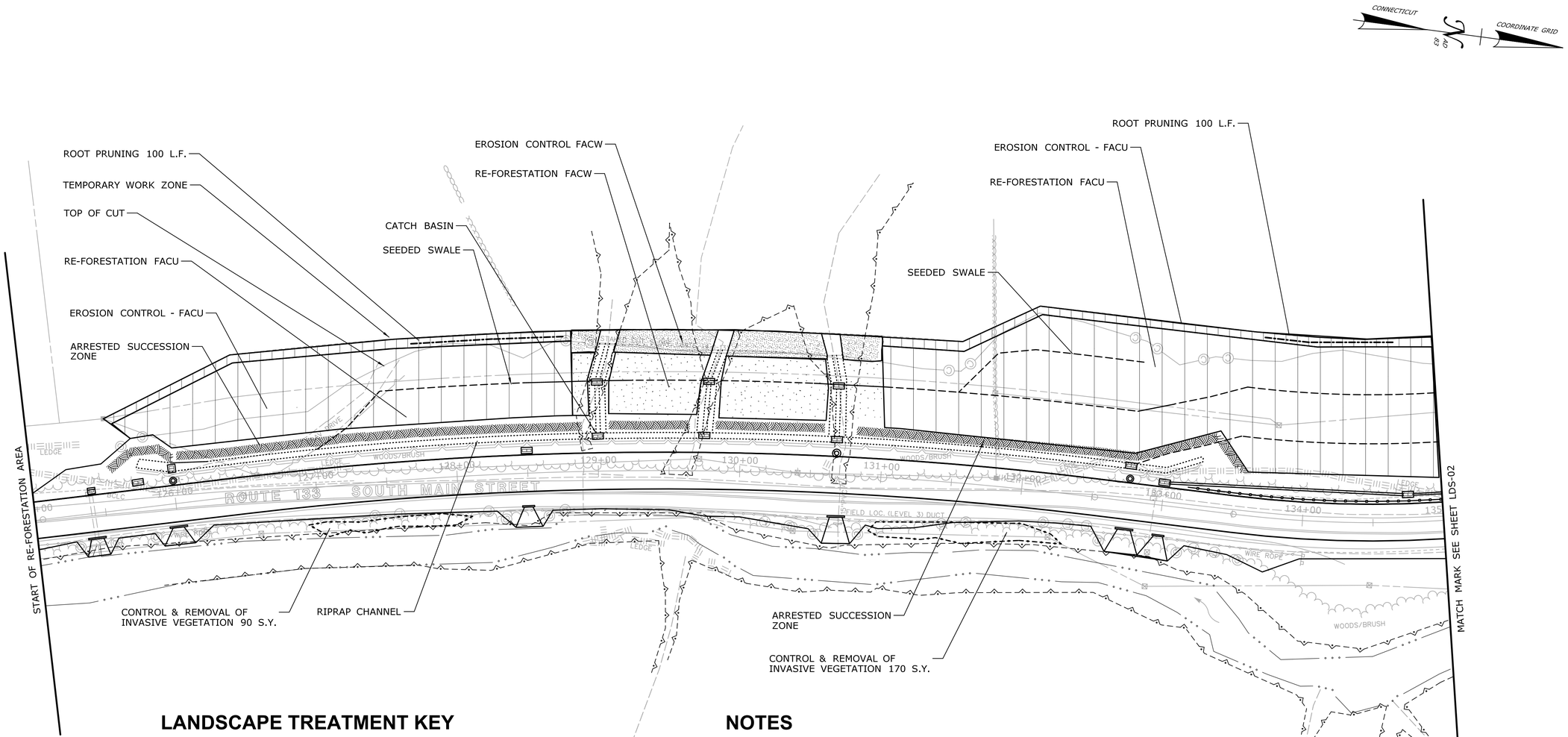
TOWN: **BRIDGEWATER**

DRAWING TITLE: **E&S & WATER HANDLING STA. 135+00 TO STA. 145+00**

PROJECT NO. **16-98**

DRAWING NO. **SED-02**

SHEET NO. **03.037**

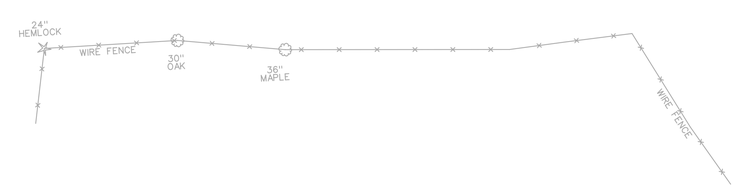


LANDSCAPE TREATMENT KEY

- EROSION CONTROL - FACW (250 L.F. / 30 L.F. = 9 UNITS)
- RE - FORESTATION - FACW (870 S.Y. / 100 S.Y. = 9 UNITS)
- EROSION CONTROL - FACU (750 L.F. / 30 L.F. = 25 UNITS)
- RE - FORESTATION - FACU (5,300 S.Y. / 100 S.Y. = 53 UNITS)
- ARRESTED SUCCESSION ZONE (2030 L.F. / 30 L.F. = 68 UNITS)
- CONTROL AND REMOVAL OF INVASIVE VEGETATION (260 S.Y.)
- ROOT PRUNING 200 L.F.

NOTES

1. SEE LDS - 03 FOR PLANT LISTS, QUANTITIES AND OTHER INFORMATION.
2. THE ACTUAL LIMITS AND LOCATIONS OF ROOT PRUNING AND THE CONTROL AND REMOVAL OF INVASIVE VEGETATION TO BE DETERMINED IN THE FIELD.
3. THE AREAS SHOWN ON THIS SHEET AND SQUARE YARDS LISTED IN THE KEY REPRESENT THE TOTAL AREAS WITHIN THE TEMPORARY WORK ZONE. SEE NOTE 7 ON LDS-03 FOR INFORMATION REGARDING TREATMENT AREAS.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/2/2015

DESIGNER/DRAFTER: S.F.
CHECKED BY: M.C.
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_LDS_01.dgn

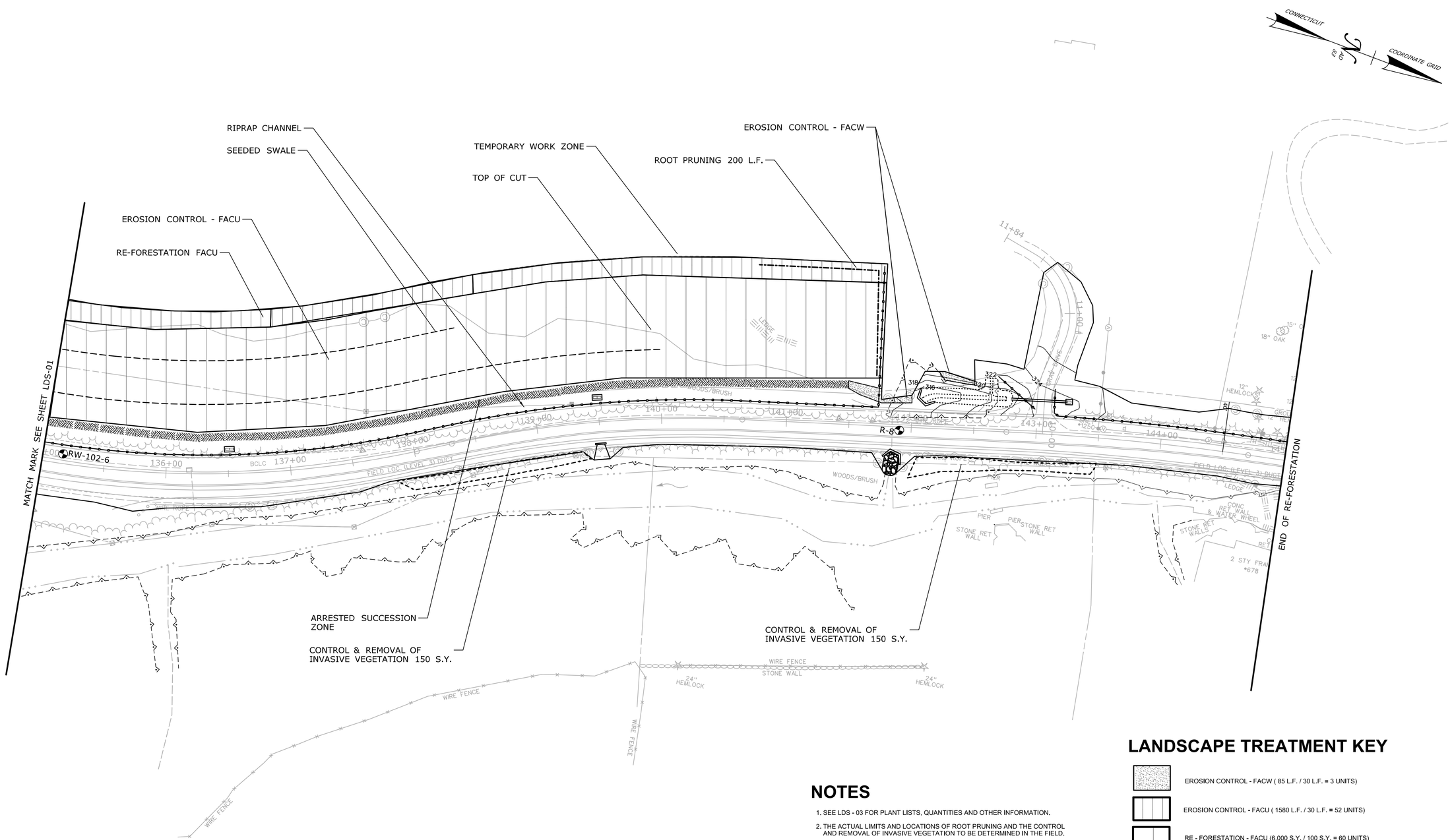
SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: LANDSCAPE DESIGN SHEET STA. 125+00 TO STA. 135+00

PROJECT NO. 16-98
DRAWING NO. LDS-01
SHEET NO. 03.038



NOTES

1. SEE LDS - 03 FOR PLANT LISTS, QUANTITIES AND OTHER INFORMATION.
2. THE ACTUAL LIMITS AND LOCATIONS OF ROOT PRUNING AND THE CONTROL AND REMOVAL OF INVASIVE VEGETATION TO BE DETERMINED IN THE FIELD.
3. THE AREAS SHOWN ON THIS SHEET AND SQUARE YARDS LISTED IN THE KEY REPRESENT THE TOTAL AREAS WITHIN THE TEMPORARY WORK ZONE. SEE NOTE 7 ON LDS-03 FOR INFORMATION REGARDING TREATMENT AREAS.

LANDSCAPE TREATMENT KEY

- EROSION CONTROL - FACW (85 L.F. / 30 L.F. = 3 UNITS)
- EROSION CONTROL - FACU (1580 L.F. / 30 L.F. = 52 UNITS)
- RE - FORESTATION - FACU (6,000 S.Y. / 100 S.Y. = 60 UNITS)
- ARRESTED SUCCESSION ZONE (2900 L.F. / 30 L.F. = 96 UNITS)
- CONTROL AND REMOVAL OF INVASIVE VEGETATION (300 S.Y.)
- ROOT PRUNING

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/2/2015

DESIGNER/DRAFTER: SF
CHECKED BY: MC
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_LDS_02.dgn

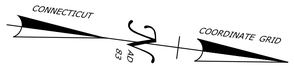
SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: LANDSCAPE DESIGN SHEET STA. 135+00 TO STA. 145+00

PROJECT NO. 16-98
DRAWING NO. LDS-02
SHEET NO. 03.039



MITIGATION PLANTING NOTES

1. THE LANDSCAPING SHOWN ON THIS PLAN ILLUSTRATES THE ' TYPICAL ' LANDSCAPE TREATMENTS PROPOSED FOR THE AREA OF DISTURBANCE DEFINED IN EACH OF THE PLANT LISTS. THIS METHODOLOGY WILL ENABLE RESTORATION OF THE SLOPE, WHILE OFFERING FLEXIBILITY TO RESPOND TO ACTUAL SITE CONDITIONS.
2. PLANTINGS, SEEDING AND EROSION CONTROL MEASURES WILL BE IMPLEMENTED TO STABILIZE SOIL AND BEGIN ' ESTABLISHMENT ' BASED ON SEASON AND FIELD CONDITIONS. AT THE DISCRETION OF THE ENGINEER, EITHER TEMPORARY OR PERMANENT SEEDING MAY BE USED TO STABILIZE SLOPES.
3. EACH 'TREATMENT TYPE' INCLUDES BOTH BARE ROOT STOCK FOR AREAS OF EROSION CONTROL MATTING AND SHALLOW SOILS, AS WELL AS CONTAINER STOCK WITH WELL ESTABLISHED ROOT SYSTEMS FOR AREAS WHERE DEEPER SOIL AND / OR IMMEDIATE ESTABLISHMENT IS NEEDED.
3. THE SPECIFIC LOCATIONS OF LANDSCAPE TREATMENTS TO BE FINALIZED BASED ON THE FINAL DESIGN AND FIELD CONDITIONS, BUT WILL ADHERE TO THE SPECIES AND DENSITIES SPECIFIED ON THIS SHEET.
4. THE SQUARE YARDS SHOWN ON THE PLANS INCLUDES THE RESTORATION OF ALL DISTURBED AREAS WITHIN THE ' TEMPORARY WORK ZONE'.
5. THE TYPICAL LAYOUT SHOWN FOR EACH TREATMENT IS APPROXIMATE. FINAL LAYOUT WILL OCCUR IN THE FIELD BASED ON ACTUAL TOPOGRAPHY, SOLAR ORIENTATION AND CONFIGURATION OF SWALES AND UNDERDRAINS.
6. EROSION CONTROL MATTING SHALL BE BIO-DEGRADABLE WITH NO PLASTIC NETTING.
7. THE TOTAL AREA FOR EACH TREATMENT, AND THEREFORE THE QUANTITIES SHOWN, HAVE BEEN REDUCED BY 30% TO ACCOUNT FOR AREAS OF RIP RAP STABILIZATION, ROCK OUTCROPPINGS, ETC.

LANDSCAPE TREATMENT DESCRIPTIONS

8. REFORESTATION FACU - LONG LIVED HARDWOOD SPECIES, AS WELL AS HEMLOCK AND TULIP, WHICH ARE CURRENTLY PRESENT ON THE SLOPE.
9. EROSION CONTROL FACU - THE RAPID DEVELOPMENT OF PIONEER SPECIES PLANTED IN MATTING AS REQUIRED, AS WELL AS ESTABLISHED ROOT SYSTEMS TO STABILIZE ANY ERODED CHANNELS.
10. ARRESTED SUCCESSION - PLANTINGS ALONG TOP OF WALL ARE INTENDED TO COVER THE LOWER SLOPE AND DISCOURAGE RE-FORESTATION. LAYOUT TO BE FINALIZED IN THE FIELD AND COORDINATED WITH MAINTENANCE.
11. EROSION CONTROL - FACW - DESIGN TO BE COORDINATED WITH STEP POOLS AND OTHER FEATURES.
12. RE-FORESTATION - FACW - TO BE COORDINATED WITH DRAINAGE DESIGN. FINAL LAYOUT TO RESPOND TO ACTUAL LIMITS OF WET AREAS AFTER GRADING.

COMMENTS

13. RHUS AROMATICA, VIBURNUM DENTATUM, CLETHRA ALNIFOLIA & AMELANCHIER CANADENSIS MUST MEET MINIMUM STANDARDS OF SECTION 3 OF THE AMERICAN STANDARD FOR NURSERY STOCK FOR THE HIEGHT OF PLANT SPECIFIED.
14. HARDWOOD SAPLINGS, PICEA (PINUS) MARIANA, CORNUS SPECIES, ARONIA ARBUTIFOLIA, VIBURNUM CASSINOIDES AND ALNUS INCANA MUST MEET THE MINIMUM STANDARDS OF SECTION 11 OF THE AMERICAN STANDARD FOR NURSERY STOCK FOR THE HIEGHT OF THE PLANT SPECIFIED. THE SOURCE OF SUPPLY MUST INCLUDE THE CULTURAL HISTORY OF EACH SPECIES FOR APPROVAL.
15. PICEA GLAUCA AND TSUGA CANADENSIS MUST MEET THE MINIMUM STANDARDS OF SECTION 4.72 OF THE AMERICAN STANDARD FOR NURSERY STOCK.
16. ALL AREAS WILL BE SEEDED IMMEDIATELY AFTER FINAL GRADING AND MAY BE TREATED WITH EROSION CONTROL MATTING. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK REQUIRED FOR PLANTING. THIS INCLUDES BUT IS NOT LIMITED TO: VEHICULAR ACCESS, FURNISHING AND INSTALLING SOIL AMENDEMENTS, CUTTING AND REPAIRING MATTING AND REMOVING TURF OR OTHER SEEDED VEGETATION. NO MULCH IS SPECIFIED FOR THIS PROJECT.
17. ALL PLANT PITS MUST BE AMENDED WITH 1 PART PEAT MOSS, AND 1 PART COMPOST TO 1 PART EXCAVATED SOIL, IN ACCORDANCE WITH SECTION 9.49 OF THE STANDARD SPECIFICATION. IN SOME LOCATIONS, SOIL AMENDMENTS MAY NEED TO BE INSTALLED BEFORE THE INSTALLATION OF EROSION CONTROL MATTING AND FINAL SEEDING.

    THE CONTRACTOR WILL COORDINATE WITH THE ENGINEER, SUBMIT A SOURCE OF SUPPLY AND SAMPLE, INCLUDING QUANTITIES FOR APPROVAL BEFORE ANY PLANTING IS PERMITTED.
18. A SPECIAL PROVISION FOR EROSION CONTROL MATTING HAS BEEN INCLUDED IN THE PROJECT TO ADDRESS ANY AREAS ALONG THE EDGE OF THE TEMPORARY WORK ZONE NEEDING ADDITIONAL STABILIZATION.
19. AS DIRECTED BY THE ENGINEER, ROOT PRUNING MAY BE USED TO ENSURE THE CONTINUED HEALTH OF TREES TO REMAIN OUTSIDE THE TEMPORARY WORK ZONE. PRIOR TO CLEARING AND GRUBBING, EXISTING TREE ROOTS WILL BE IDENTIFIED, AND LIMITS OF ROOT PRUNING DETERMINED. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

KEY (SEE LISTS FOR HATCH PATTERN)

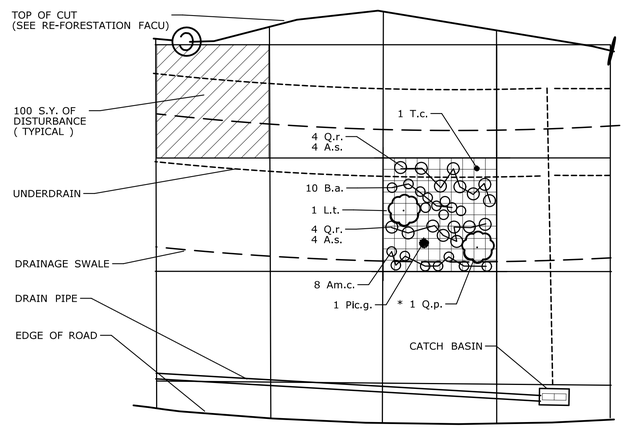
CONTROL AND REMOVAL OF INVASIVE VEGETATION

ROOT PRUNING

RIP-RAP

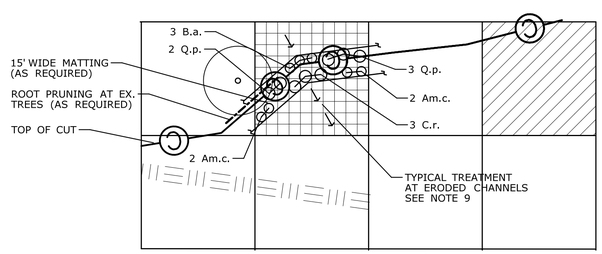
RE-FORESTATION FACU (113 UNITS)

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY / UNIT	TOTAL NUMBER OF PLANTS (SEE NOTE 7)	COMMENTS
A.s.	Acer saccharum	Sugar Maple	6'-8' Ht. B.B.	8	8 X 113 X .7 = 632	SEE NOTE 14
A.m.c.	Amelanchier canadensis	Shadblow Serviceberry	18"-24" Ht. B.B.	8	8 X 113 X .7 = 632	SEE NOTE 13
B.a.	Betula allegeniensis	Yellow Birch	2"-3' Ht. B.B.	10	10 X 113 X .7 = 791	SEE NOTE 14
L.t.	Liriodendron tulipifera	Tulip Tree	1 3/4" - 2" Cal. B.B.	1	1 X 113 X .7 = 79	SEE NOTE 13
Pic.g.	Picea glauca	White Spruce	3'-4' Ht. B.B.	1	1 X 113 X .7 = 79	SEE NOTE 15
Q.r.	Quercus rubra	Northern Red Oak	2'-3' Ht. No. 3 Cont.	8	8 X 113 X .7 = 632	SEE NOTE 14
* Q.p.	Quercus palustris	Pin Oak	1 3/4"-2" Cal. B.B.	1	1 X 113 X .7 = 79	
T.c.	Tsuga canadensis	Canadian Hemlock	2'-3' Ht. B.B.	1	1 X 113 X .7 = 79	SEE NOTE 15
CONSERVATION SEEDING FOR SLOPES				100 S.Y.	100 X 113 X .7 = 7,900 S.Y.	



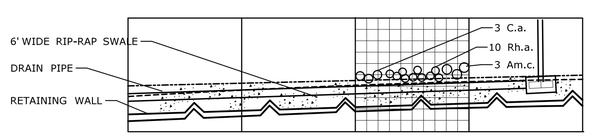
EROSION CONTROL FACU (77 UNITS)

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY / UNIT	TOTAL NUMBER OF PLANTS (SEE NOTE 7)	COMMENTS
A.m.c.	Amelanchier canadensis	Shadblow Serviceberry	18"-24" Ht. B.B.	4	4 X 77 X .7 = 216	SEE NOTE 13
B.a.	Betula allegeniensis	Yellow Birch	2"-3' Ht. B.B.	3	3 X 77 X .7 = 162	SEE NOTE 14
C.r.	Cornus racemosa	Grey Dogwood	2"-3' Ht. B.B.	3	3 X 77 X .7 = 162	SEE NOTE 14
Q.p.	Quercus palustris	Pin Oak	24"-36" Ht. No. 3 Cont.	5	5 X 77 X .7 = 270	SEE NOTE 14
CONSERVATION SEEDING FOR SLOPES				150 S.Y.	150 X .77 X .7 8,100 S.Y.	
EROSION CONTROL MATTING				150 S.Y.	150 X .77 X .7 = 8,100 S.Y.	SEE NOTE 18
ROOT PRUNING				-	400 L.F.	SEE NOTE 19

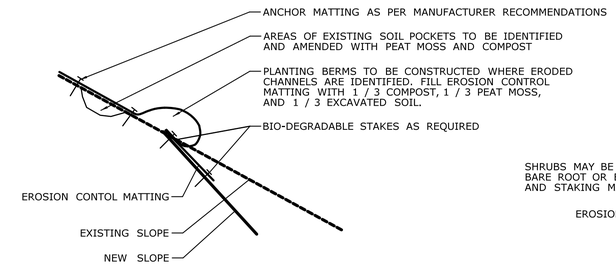


ARRESTED SUCCESSION ZONE (164 UNITS)

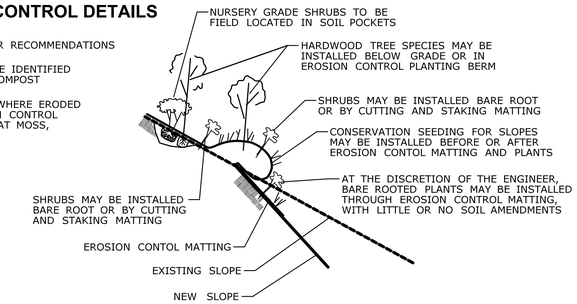
KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY / UNIT	TOTAL NUMBER OF PLANTS (SEE NOTE 7)	COMMENTS
Am.c.	Amelanchier canadensis	Shadblow Serviceberry	18"-24" Ht. B.B.	3	164 X 3 X .7 = 345	SEE NOTE 13
C.a.	Cornus amomum	Silky Dogwood	2"-3' Ht. B.R.	3	164 X 3 X .7 = 345	SEE NOTE 14
Rh.a.	Rhus aromatica	Fragrant Sumac	18"-24" Ht. B.B.	10	164 X 10 X .7 = 1148	SEE NOTE 13
CONSERVATION SEEDING FOR SLOPES				30 S.Y.	164 X 30 X .7 = 3,450 S.Y.	



EROSION CONTROL DETAILS



MATTING

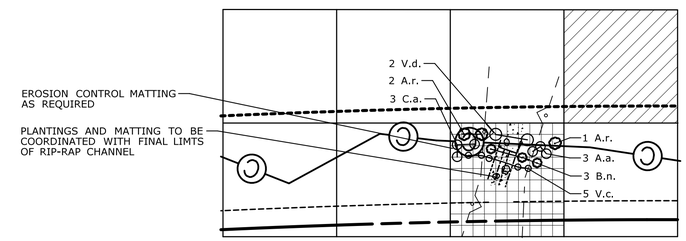


PLANTING

1. REFER TO COMMENTS ON THE SHEET, AS WELL AS SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
2. DETAILS SHOWN ARE FOR GENERAL INFORMATION ONLY. ACTUAL CROSS-SECTIONS WILL ALONG THE LIMITS OF DISTURBANCE WILL VARY BASED ON FINAL GRADES.
3. THE FINAL LIMITS AND CONFIGURATION OF EROSION CONTROL MATTING, STAKING, ROOT PRUNING, SOIL AMENDMENTS, SEEDING AND PLANTING SHALL BE DETERMINED IN THE FIELD BASED ON SITE CONDITIONS.
4. THE CONTRACTOR SHALL FURNISH ALL LABOR, EXCAVATED SOIL, PEAT MOSS AND COMPOST REQUIRED TO FIELD LOCATE EROSION CONTROL MATTING AND PLANTINGS.
5. PLANTINGS AND SEEDING MAY BE COMPLETED PRIOR TO THE INSTALLATION OF EROSION CONTROL MATTING AND STAKING, OR AFTER.

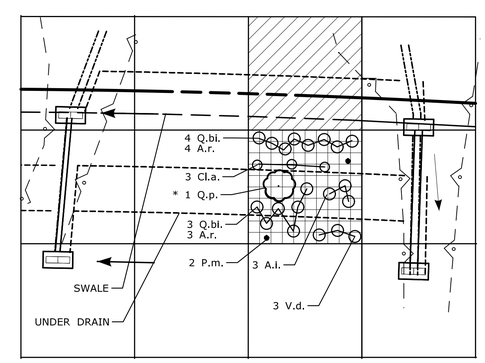
EROSION CONTROL FACW (12 UNITS)

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY / UNIT	TOTAL NUMBER OF PLANTS (SEE NOTE 7)	COMMENTS
A.r.	Acer rubrum	Red Maple	3'-4' Ht. Whips B.R.	3	3 X 12 X .7 = 27	SEE NOTE 14
A.a.	Aronia arbutifolia	Red Chokeberry	2'-3' Ht. B.B.	3	3 X 12 X .7 = 27	SEE NOTE 14
B.n.	Betula nigra	River Birch	1 Gal.	3	3 X 12 X .7 = 27	SEE NOTE 14
C.a.	Cornus amomum	Silky Dogwood	24"-36" Ht. B.B.	3	3 X 12 X .7 = 27	SEE NOTE 14
V.c.	Viburnum cassinoides	Raisin Viburnum	15"-18" Ht. B.R.	5	5 X 12 X .7 = 42	SEE NOTE 14
V.d.	Viburnum dentatum	Arrowwood Viburnum	3'-4' Ht. B.B.	2	2 X 12 X .7 = 18	SEE NOTE 13
WETLAND GRASS ESTABLISHMENT				30 S.Y.	30 X 12 X .7 = 270 S.Y.	
EROSION CONTROL MATTING				30 S.Y.	30 X 12 X .7 = 270 S.Y.	



RE-FORESTATION FACW (9 UNITS)

KEY	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY / UNIT	TOTAL NUMBER OF PLANTS (SEE NOTE 7)	COMMENTS
A.r.	Acer rubrum	Red Maple	3'-4' Ht. Whips B.R.	7	7 X 9 X .7 = 42	
A.i.	Alnus incana	Speckled Alder	2"-3' Ht. B.B.	3	3 X 9 X .7 = 18	
Cl.a.	Clethra alnifolia	Summersweet Clethra	2"-3' Ht. B.B.	3	3 X 9 X .7 = 18	
Q.bi.	Quercus bicolor	Swamp White Oak	24"-36" Ht. No. 3 Cont.	7	7 X 9 X .7 = 42	
P.m.	Pinus mariana	Black Spruce	18"-24" Ht. B.R.	2	2 X 9 X .7 = 12	
* Q.p.	Quercus palustris	Pin Oak	1 3/4" - 2 " Cal. B.B.	1	1 X 9 X .7 = 6	
V.d.	Viburnum dentatum	Arrowwood Viburnum	3'-4' Ht. B.B.	3	3 X 9 X .7 = 18	
CONSERVATION SEEDING FOR SLOPES				100 S.Y.	100 X 9 X .7 = 600 S.Y.	



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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/23/2016

DESIGNER/DRAFTER: SF

CHECKED BY: MC

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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_LDS_03.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

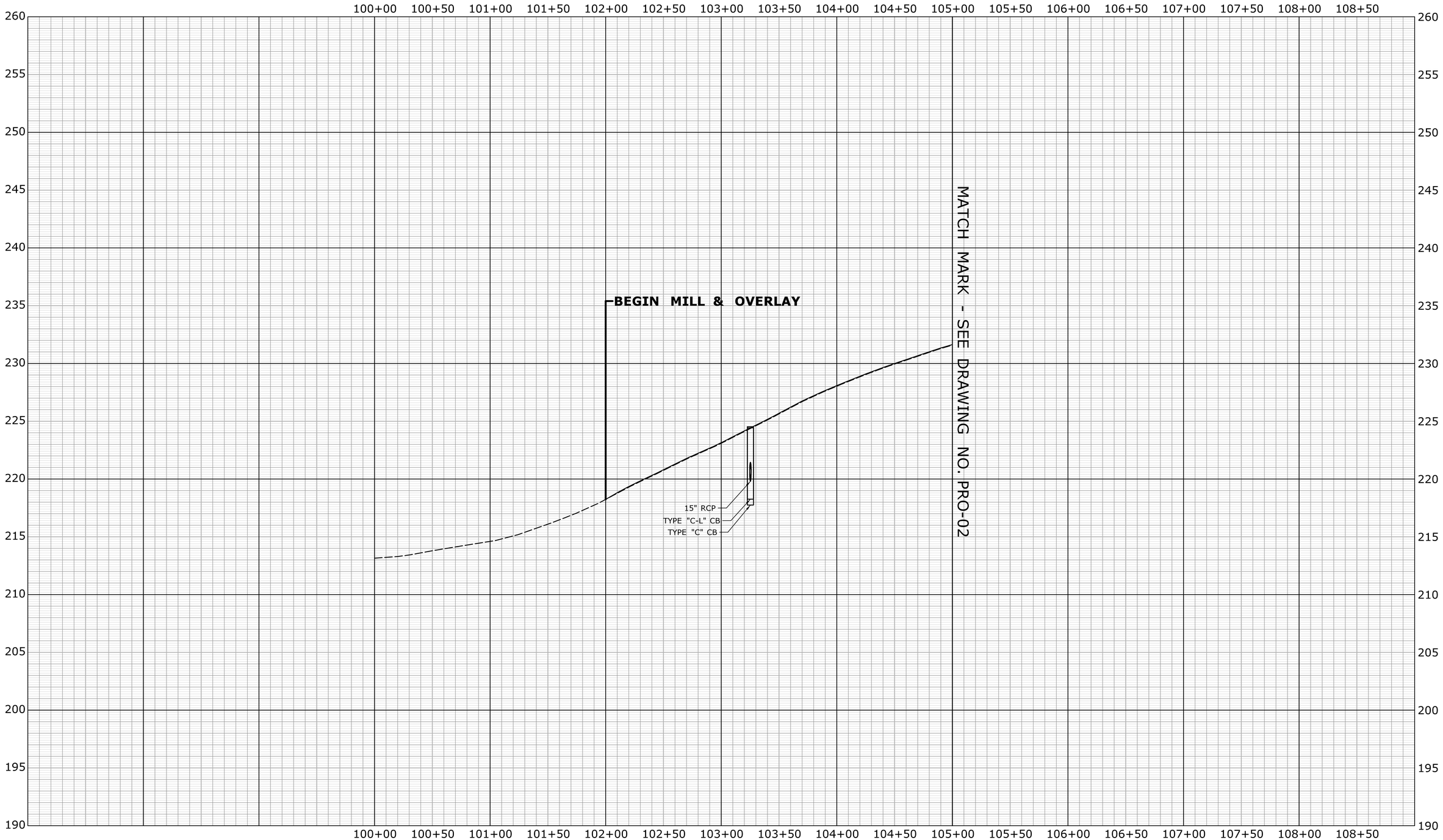
TOWN: BRIDGEWATER

DRAWING TITLE: LANDSCAPE DESIGN SHEET

PROJECT NO. 16-98

DRAWING NO. LDS-03

SHEET NO. 03.040



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS

CHECKED BY: JDP

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VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

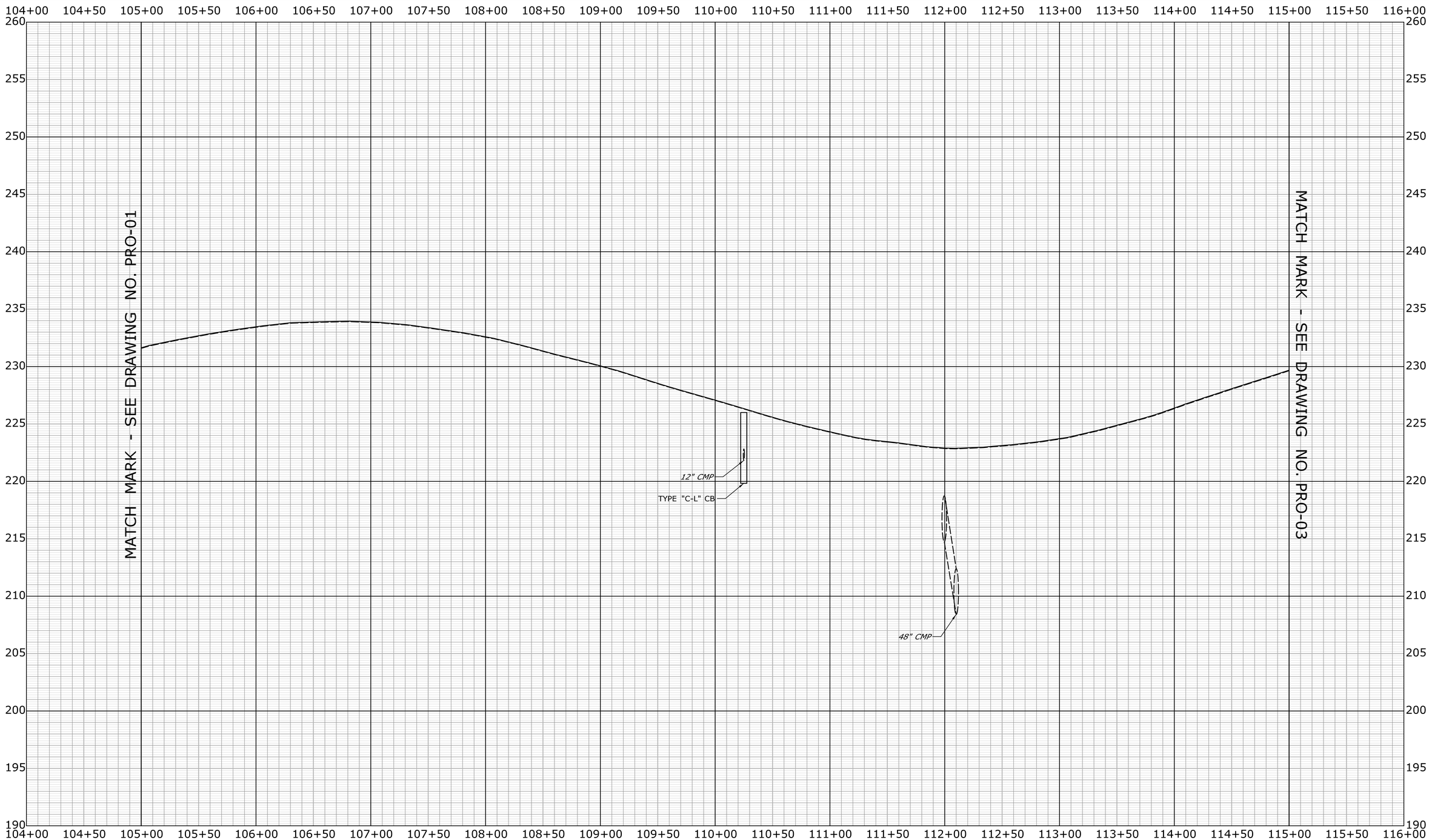
TOWN: BRIDGEWATER

DRAWING TITLE: PROFILE STA. 100+00 TO 105+00

PROJECT NO. 16-98

DRAWING NO. PRO-01

SHEET NO. 03.041



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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE:

PROFILE
STA. 105+00 TO 115+00

PROJECT NO. 16-98

DRAWING NO. PRO-02

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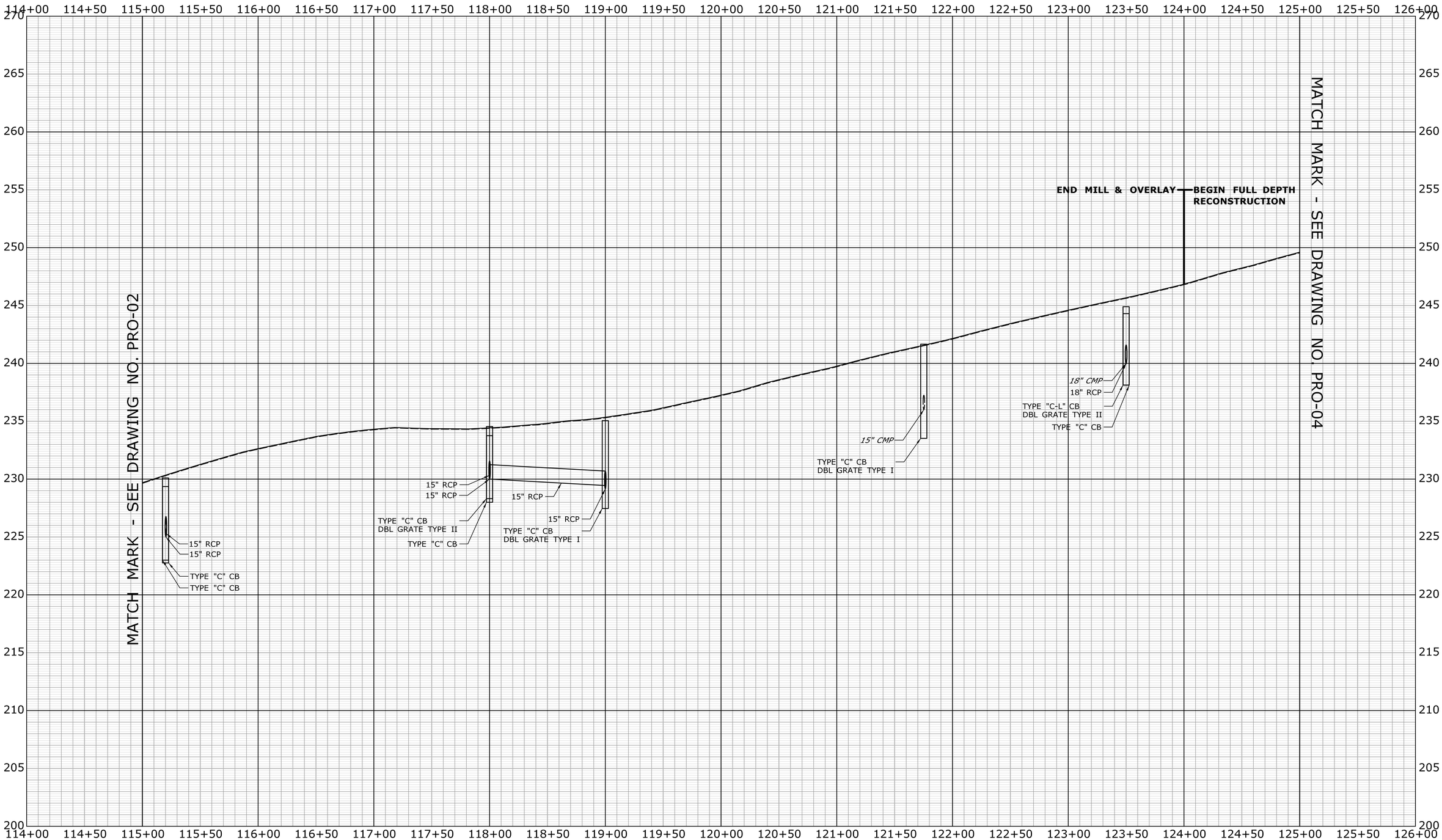

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS

CHECKED BY: JDP

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE:
PROFILE
STA. 115+00 TO 125+00

PROJECT NO. 16-98

DRAWING NO. PRO-03

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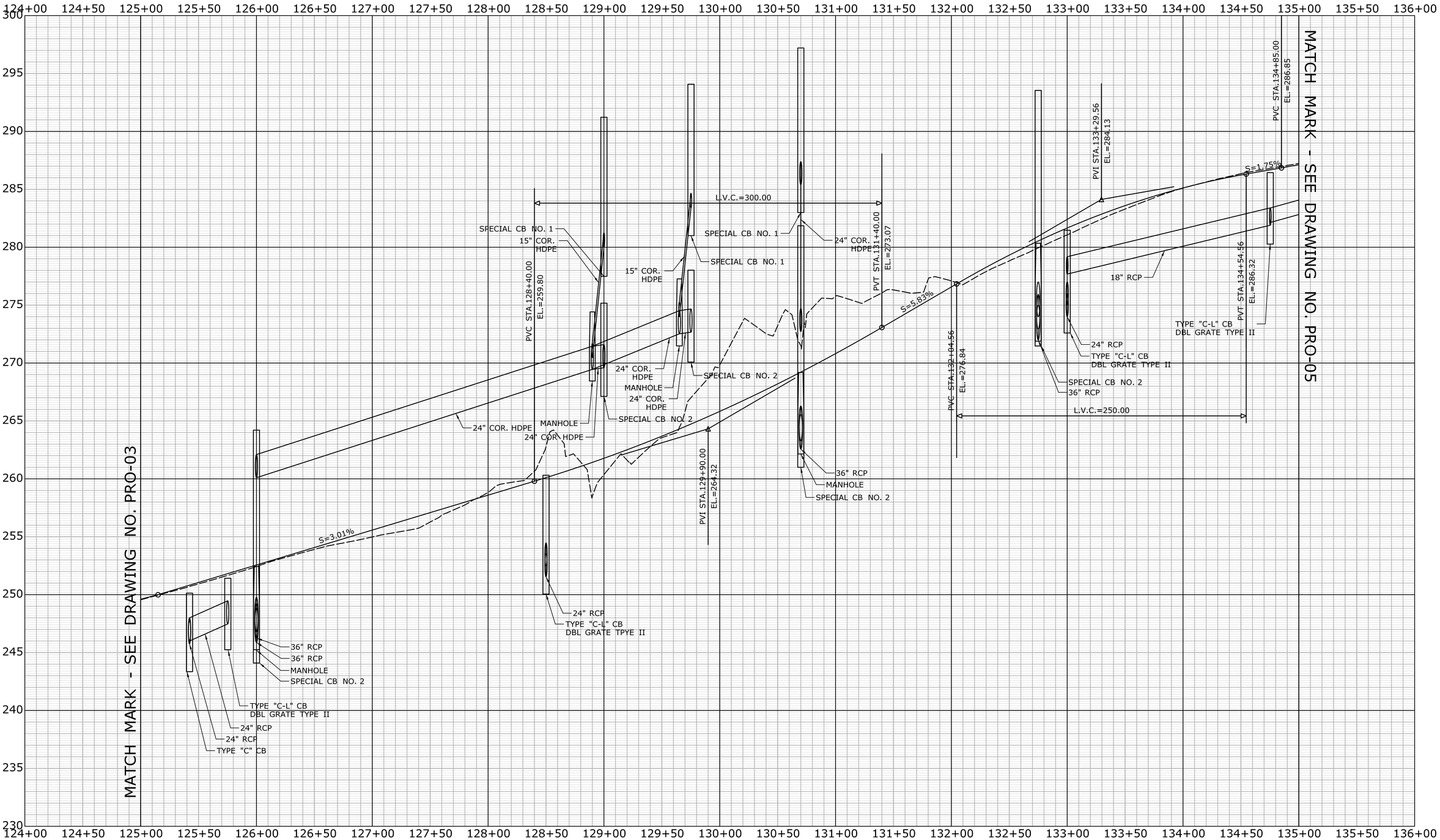

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS

CHECKED BY: JDP

HORIZ. SCALE IN FEET 0 40 80

VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE:
PROFILE
STA. 125+00 TO 135+00

PROJECT NO. 16-98

DRAWING NO. PRO-04

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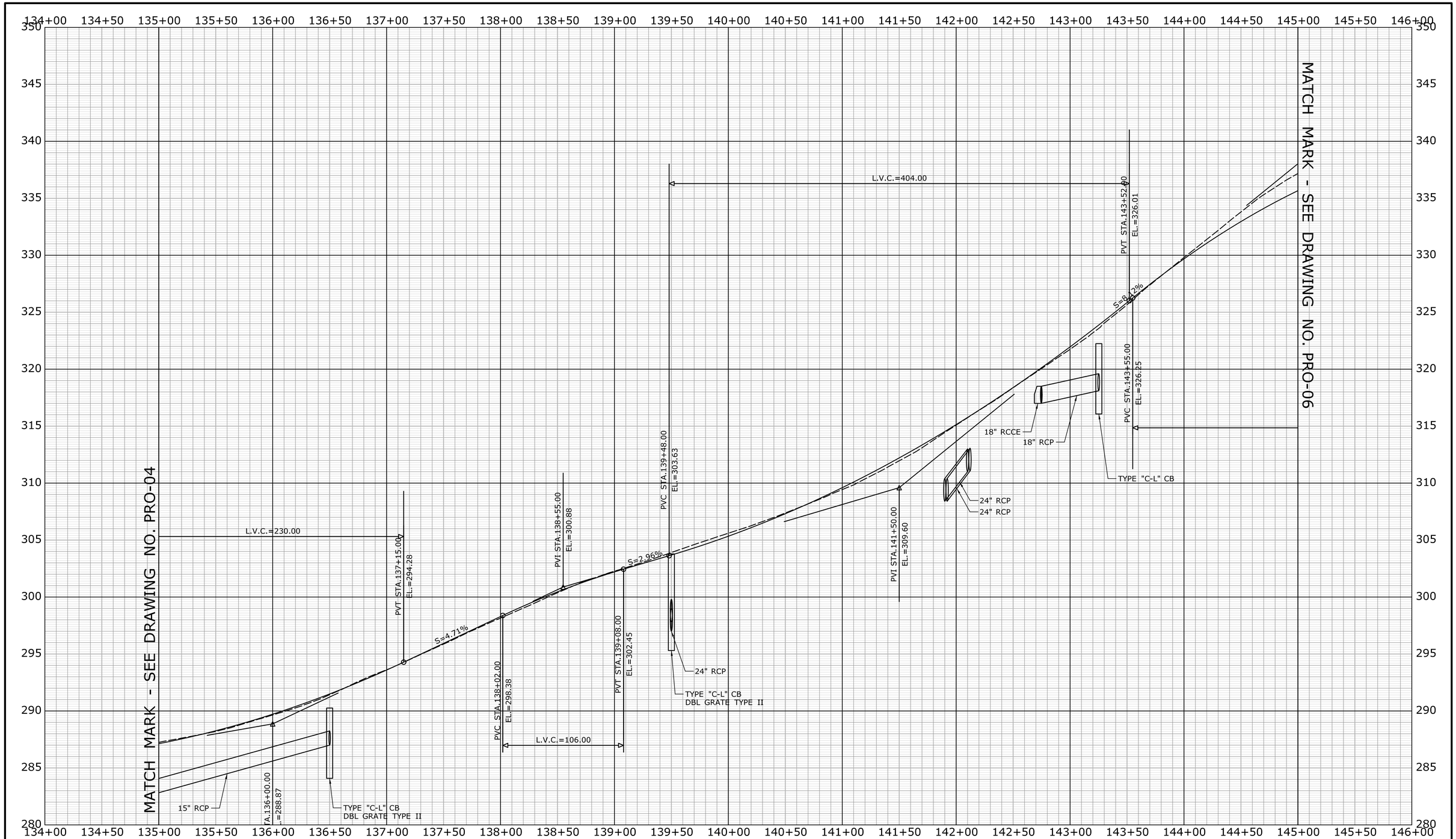

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS

CHECKED BY: JDP

HORIZ. SCALE IN FEET 0 40 80

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

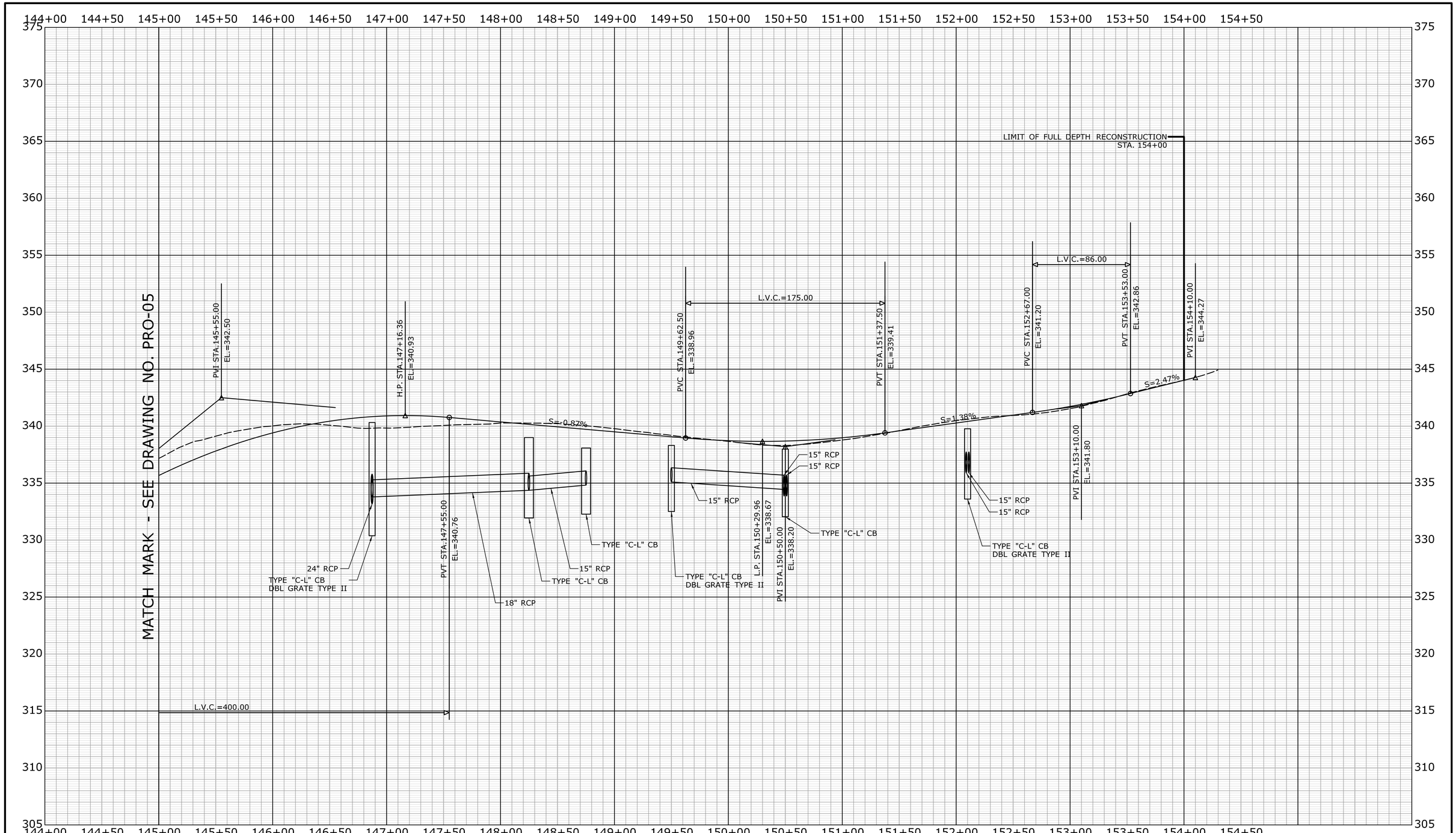
TOWN: **BRIDGEWATER**

DRAWING TITLE:
PROFILE
STA. 135+00 TO 145+00

PROJECT NO. **16-98**

DRAWING NO. **PRO-05**

SHEET NO. **03.045**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS

CHECKED BY: JDP

HORIZ. SCALE IN FEET 0 40 80

VERT. SCALE IN FEET 0 4 8

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Profile\HW_MSH_PRO-06.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

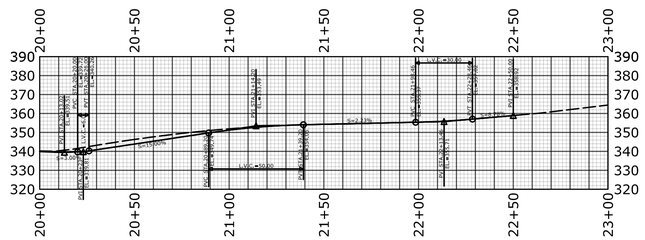
TOWN: BRIDGEWATER

DRAWING TITLE: PROFILE STA. 145+00 TO 154+00

PROJECT NO. 16-98

DRAWING NO. PRO-06

SHEET NO. 03.046



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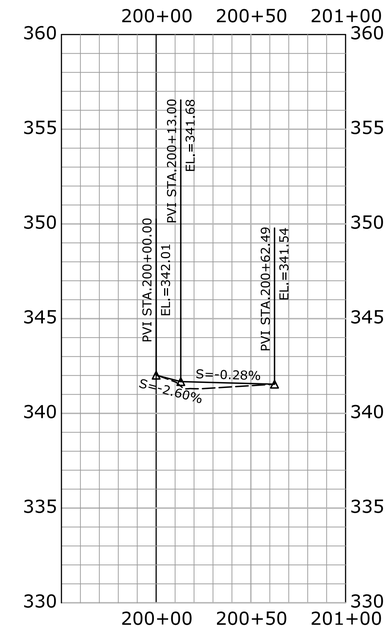

WEWAKA BROOK RD - STA. 153+21

HORIZ. SCALE IN FEET
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VERT. SCALE IN FEET
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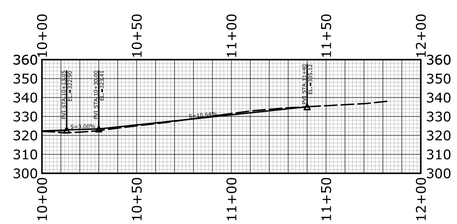


DRIVEWAY #1 - STA. 143+05

SCALE IN FEET
0 40 80
SCALE 1"=40'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/1/2016

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Profile\HW_MSH_PRO-DW.dgn

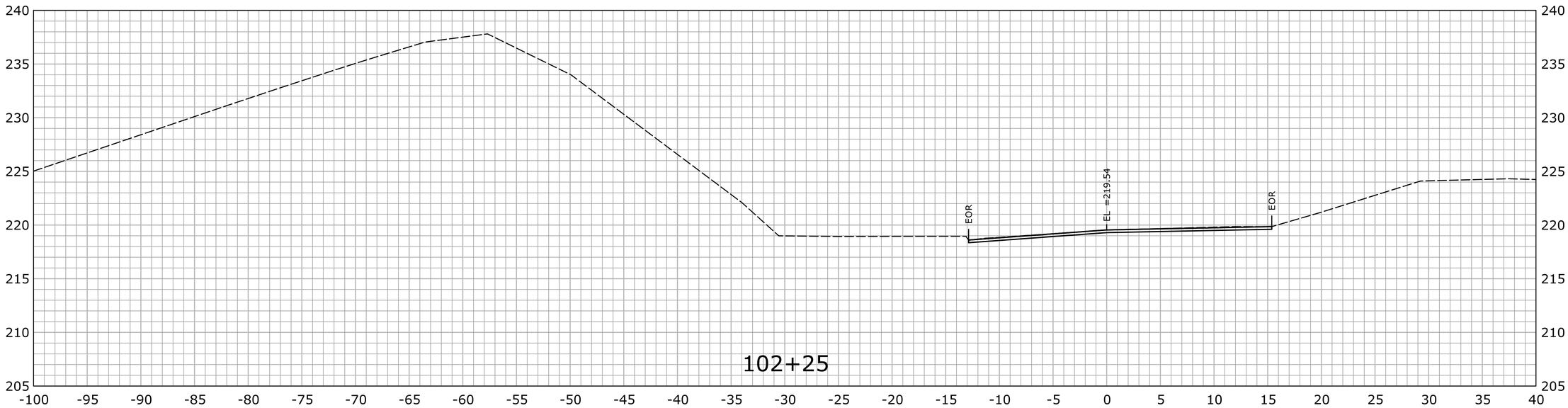
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

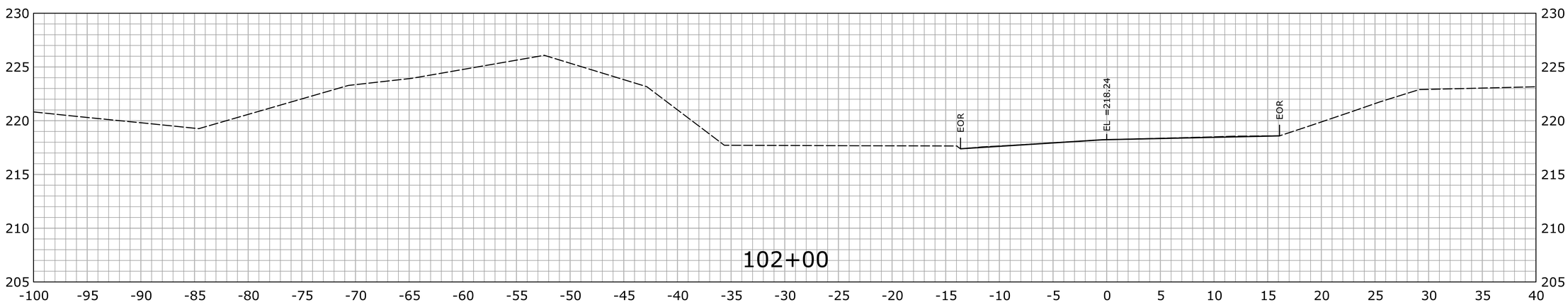
PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE:
PROFILES
DRIVEWAYS & WEWAKA BRK RD

PROJECT NO. 16-98
DRAWING NO. PRO-07
SHEET NO. 03.047





STA.102+00 TO STA.102+25

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

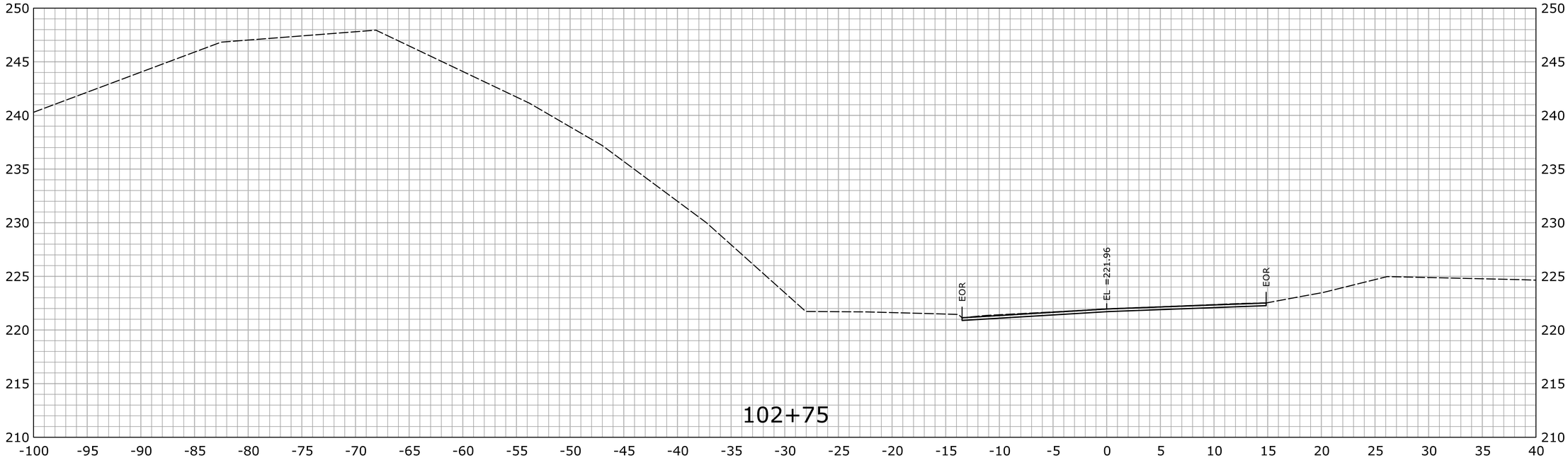
TOWN: **BRIDGEWATER**

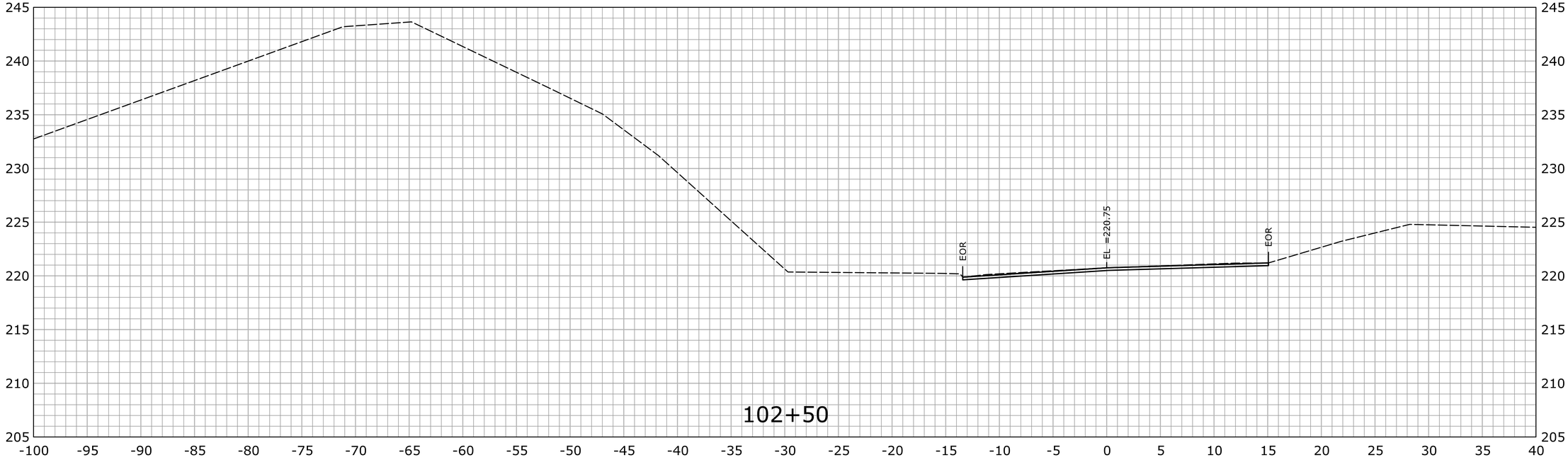
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-001**

SHEET NO. **03.048**





STA.102+50 TO STA.102+75

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

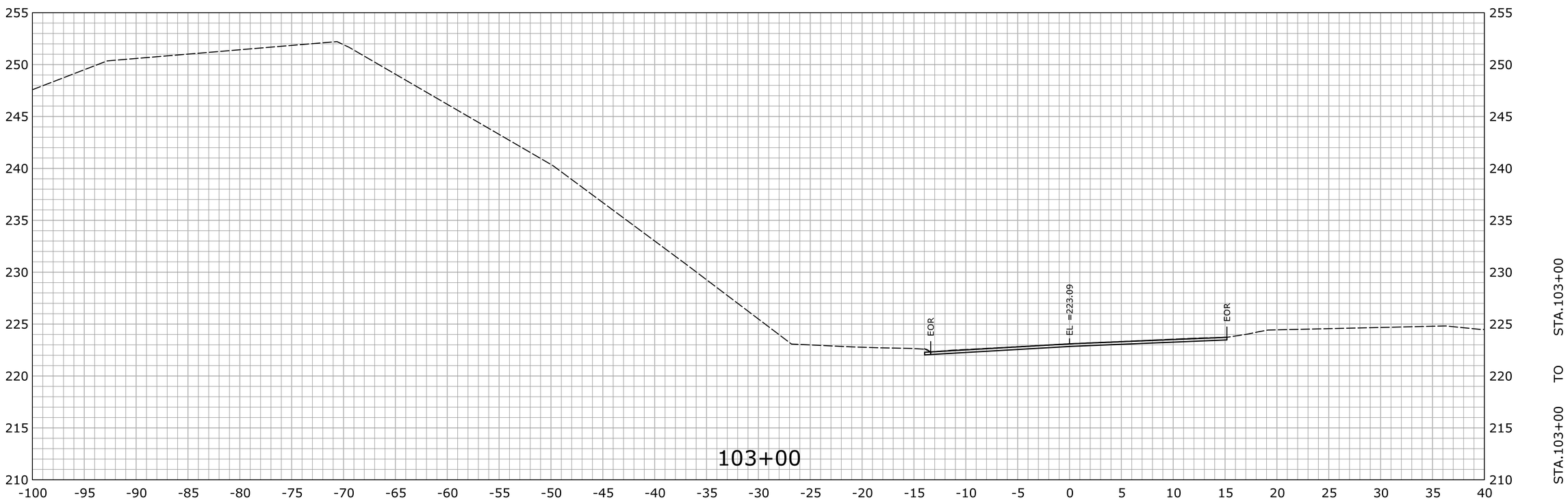
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-002**

SHEET NO. **03.049**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

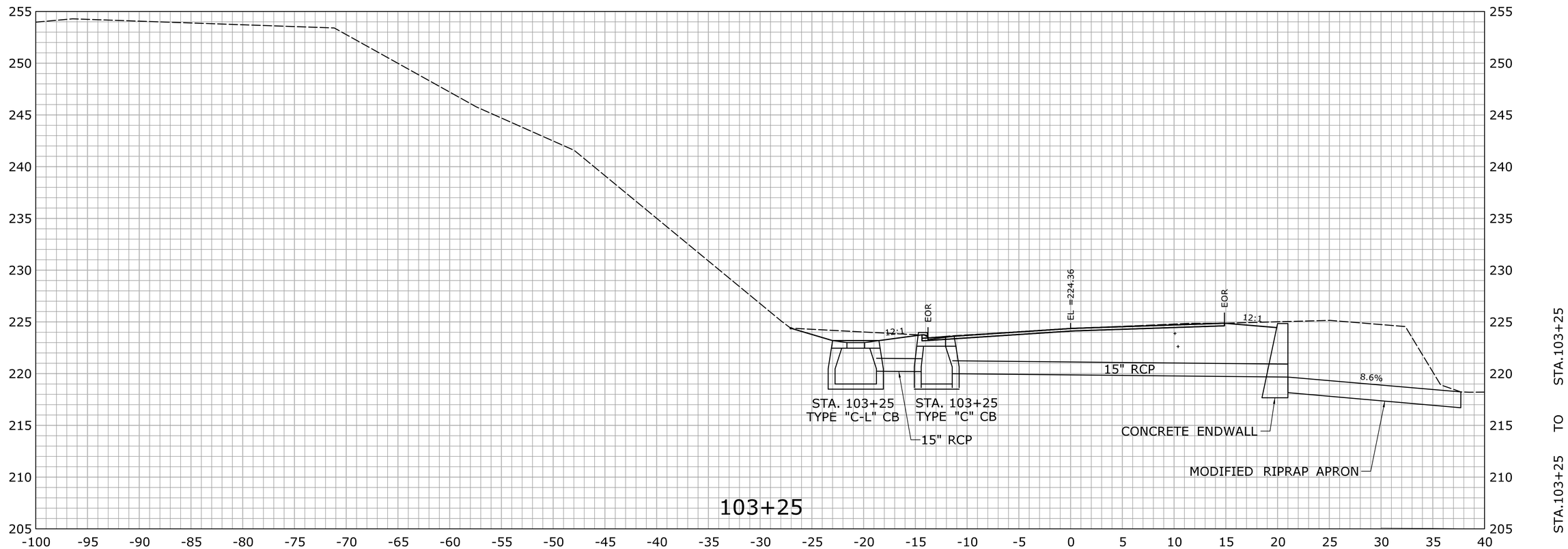
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-003**

SHEET NO. **03.050**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

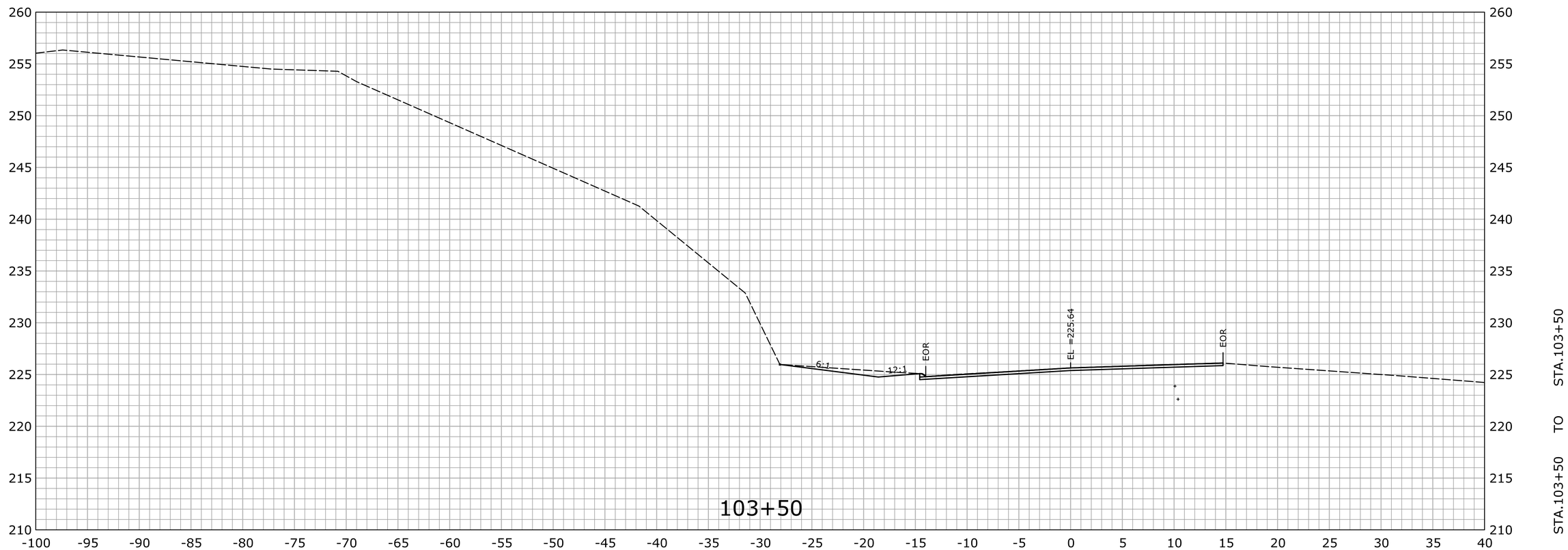
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-004**

SHEET NO. **03.051**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

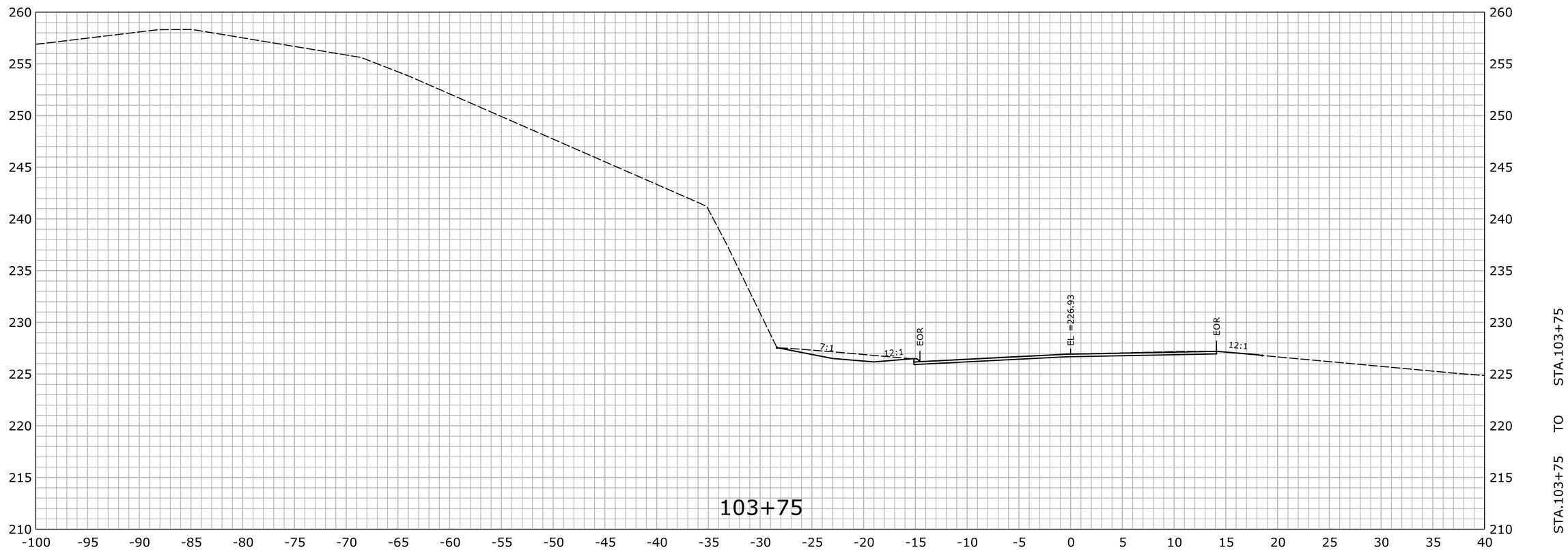
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-005**

SHEET NO. **03.052**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

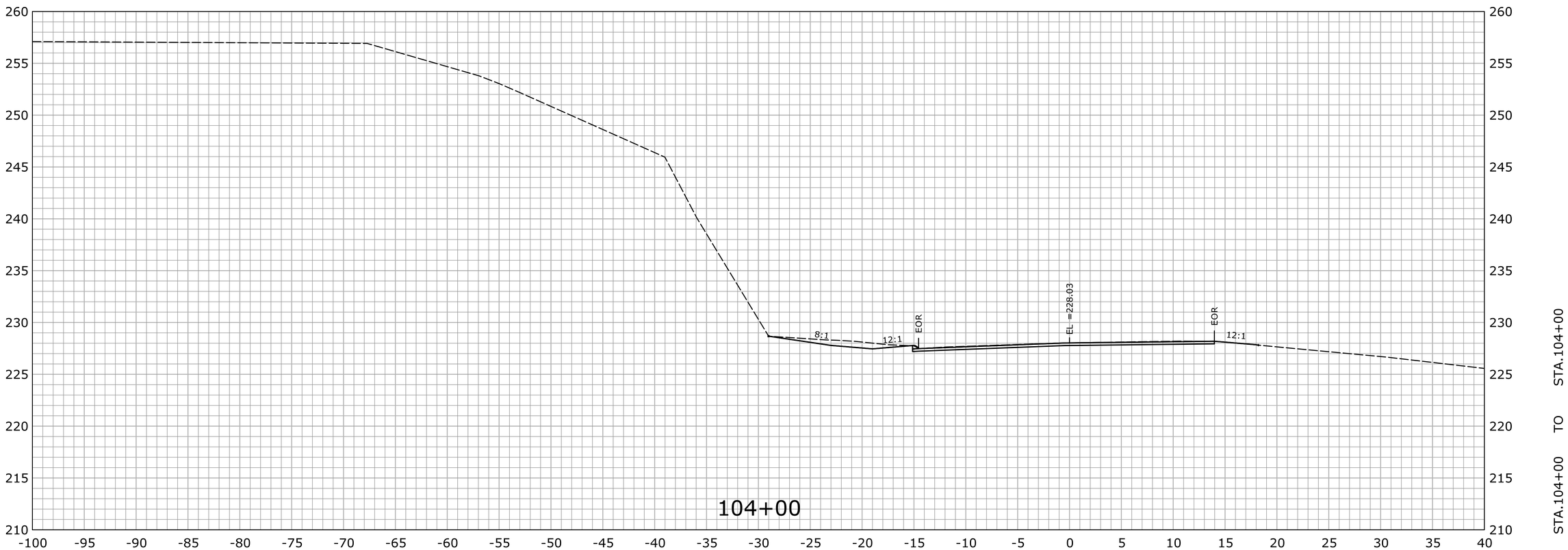
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-006**

SHEET NO. **03.053**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

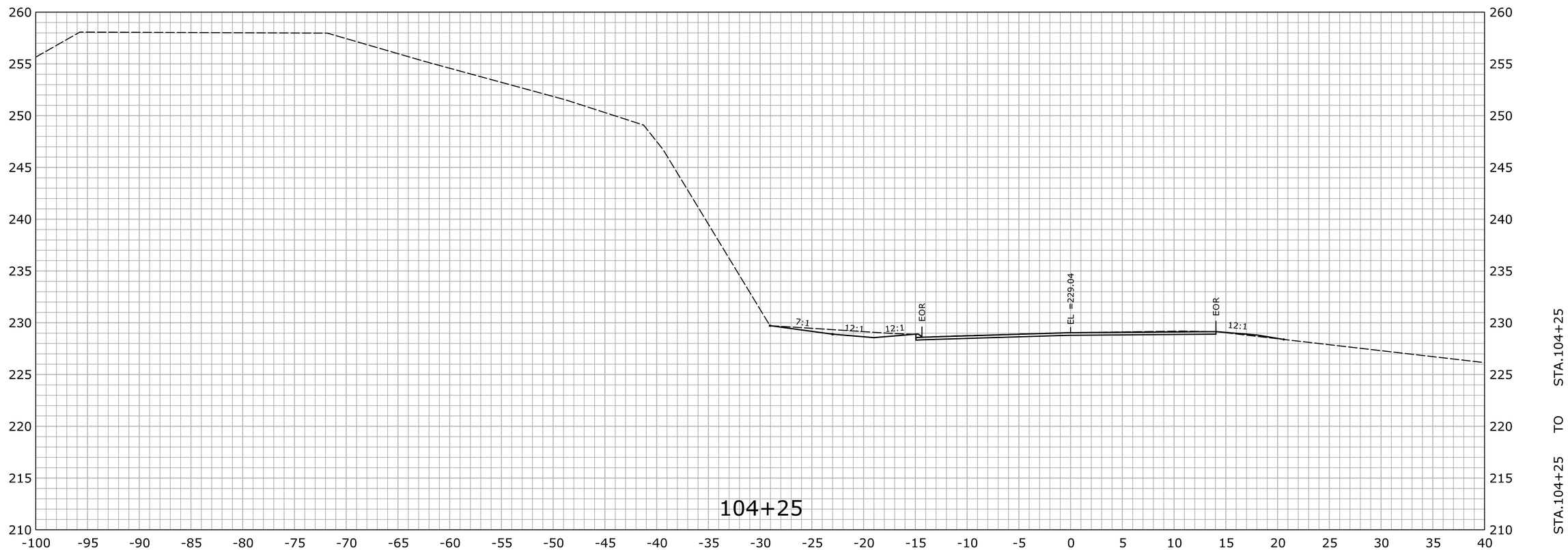
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**
DRAWING NO. **XSC-007**
SHEET NO. **03.054**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

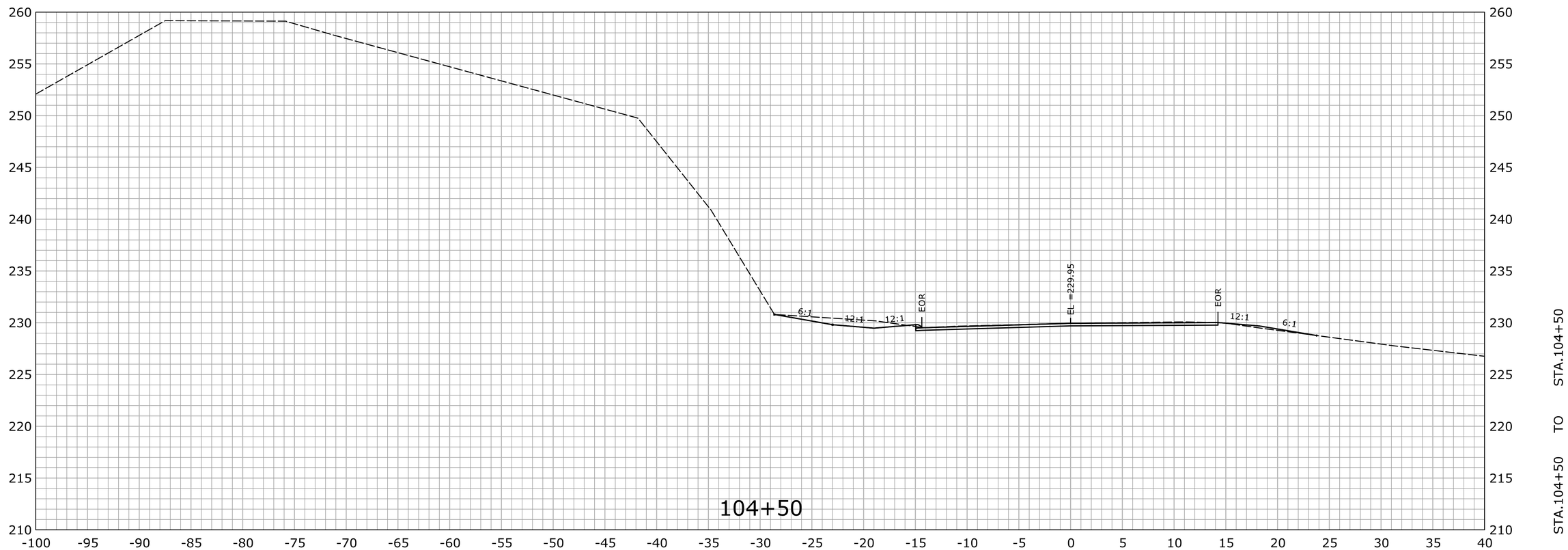
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-008**

SHEET NO. **03.055**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

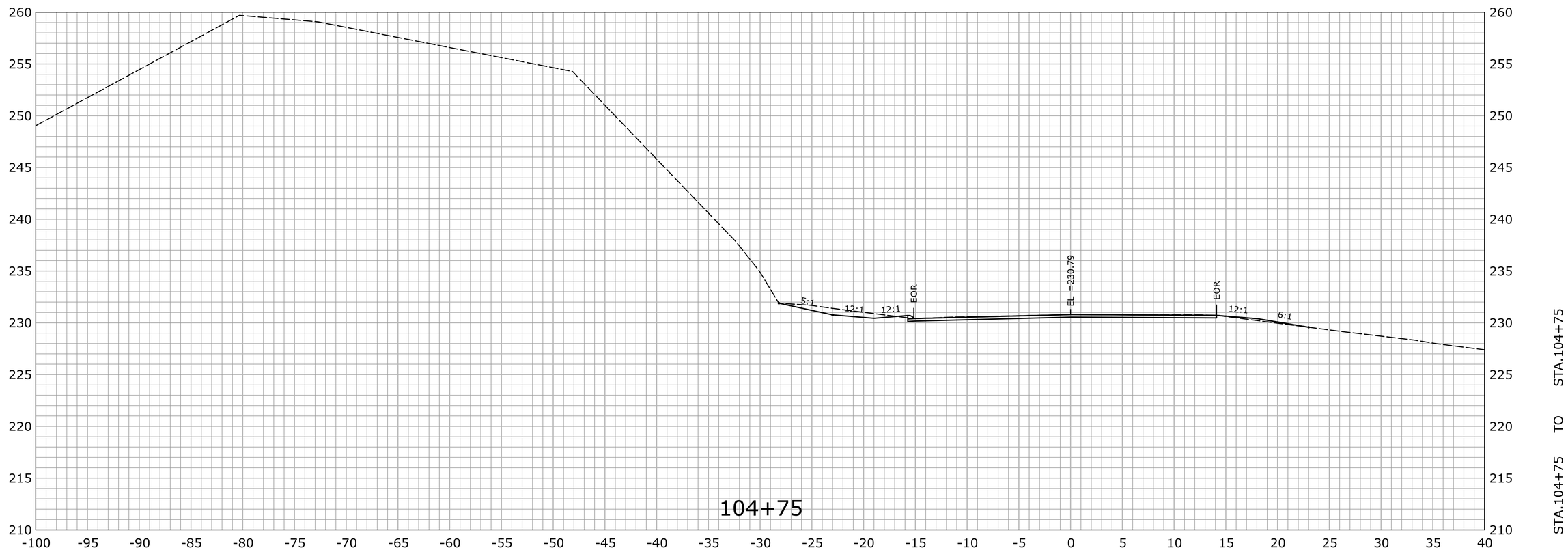
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-009**

SHEET NO. **03.056**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

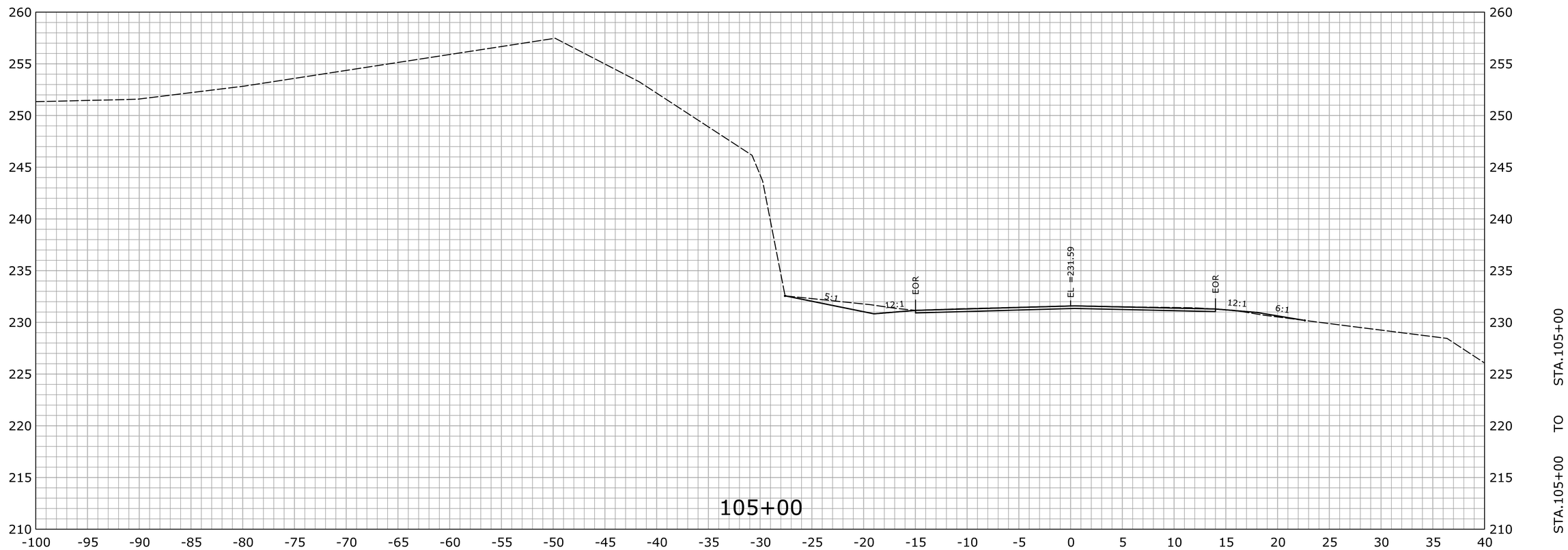
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-010**

SHEET NO. **03.057**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-011**

SHEET NO. **03.058**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

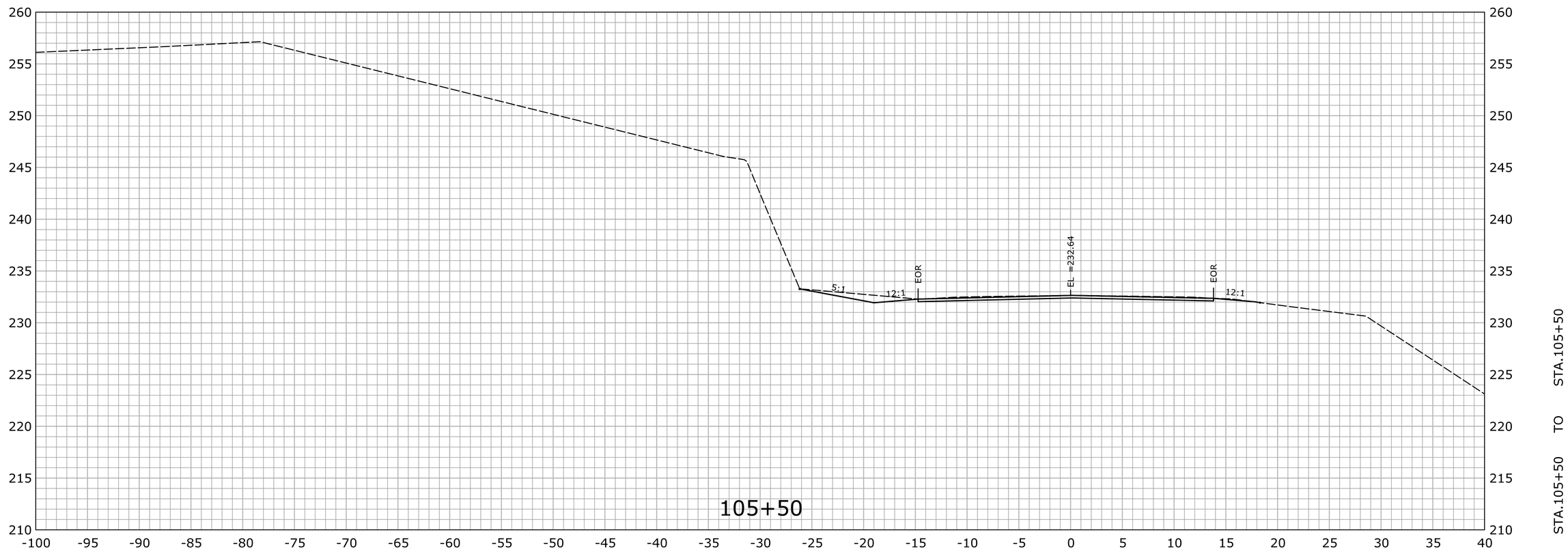
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-012**

SHEET NO. **03.059**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

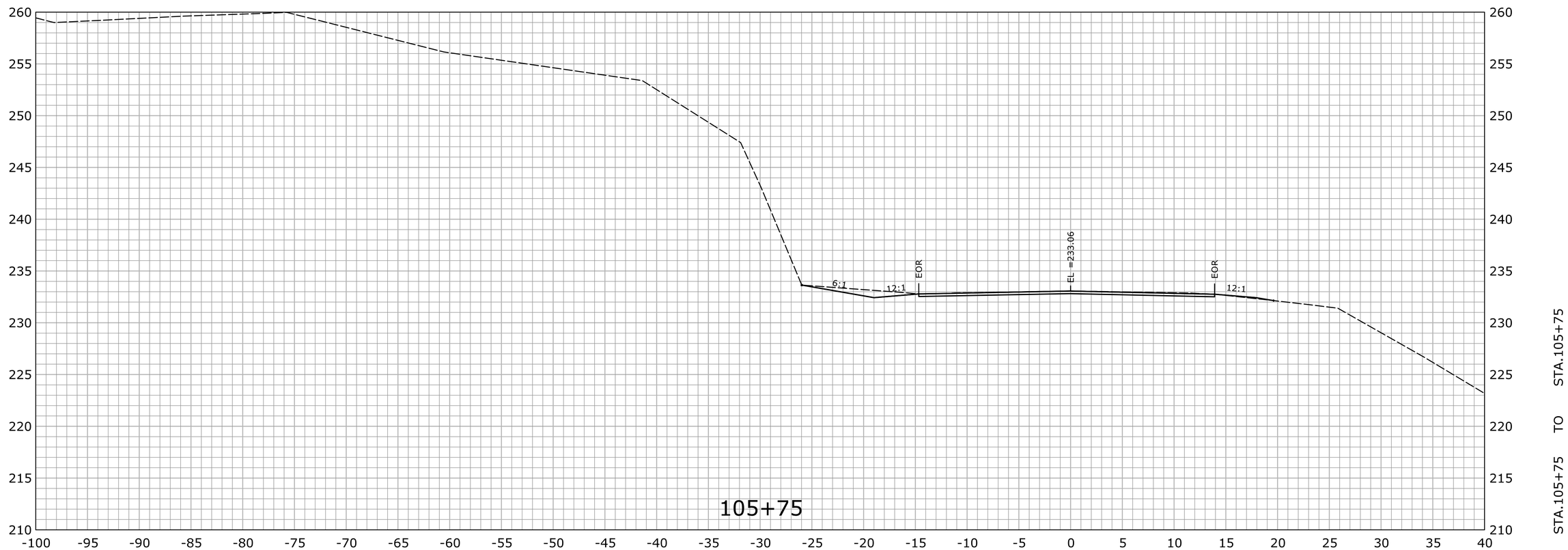
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**
DRAWING NO. **XSC-013**
SHEET NO. **03.060**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

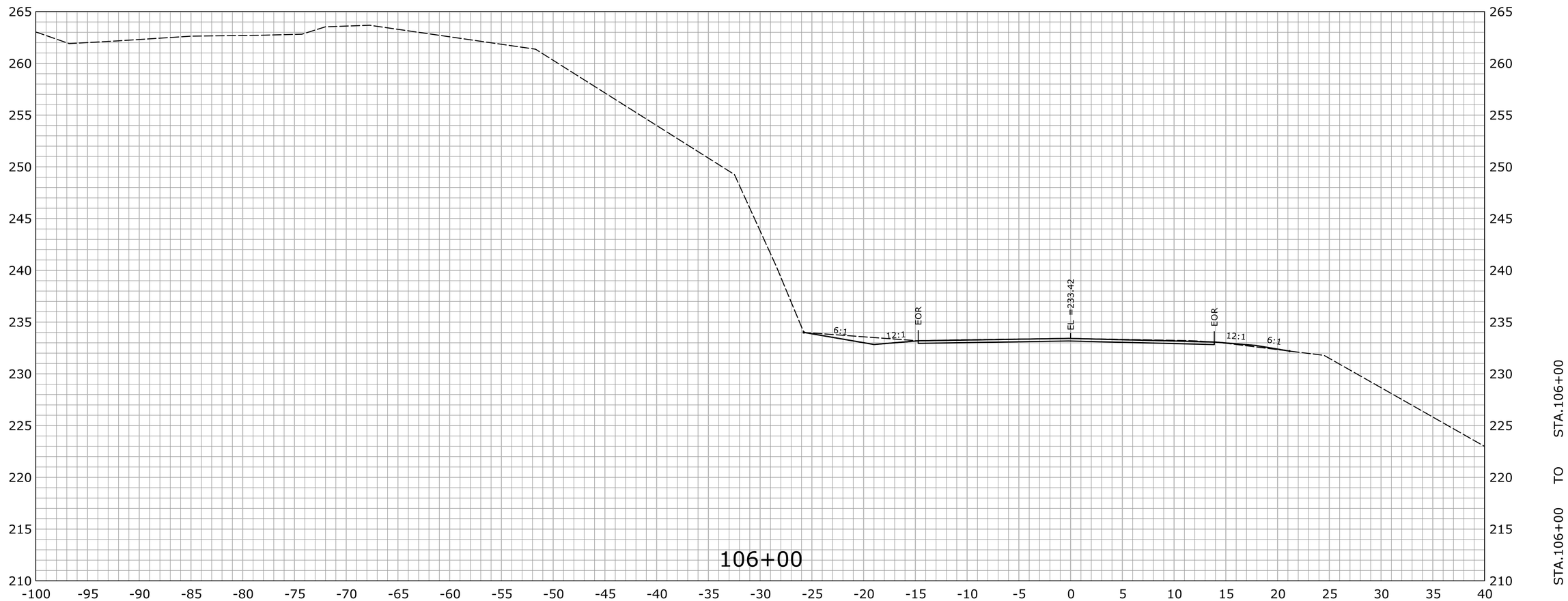
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-014**

SHEET NO. **03.061**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-015**

SHEET NO. **03.062**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**
DRAWING NO. **XSC-016**
SHEET NO. **03.063**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-017**

SHEET NO. **03.064**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-018**

SHEET NO. **03.065**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

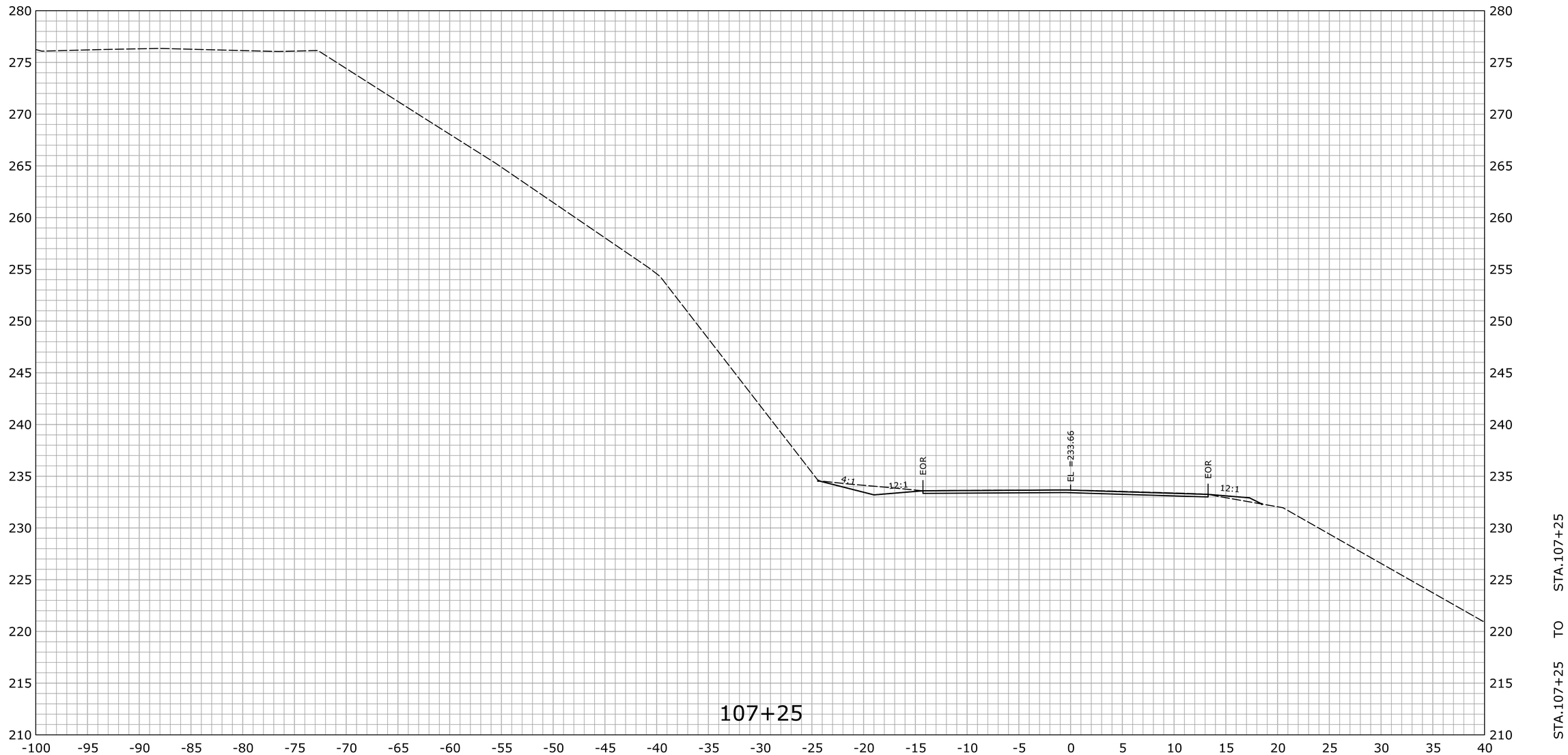
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-019**

SHEET NO. **03.066**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

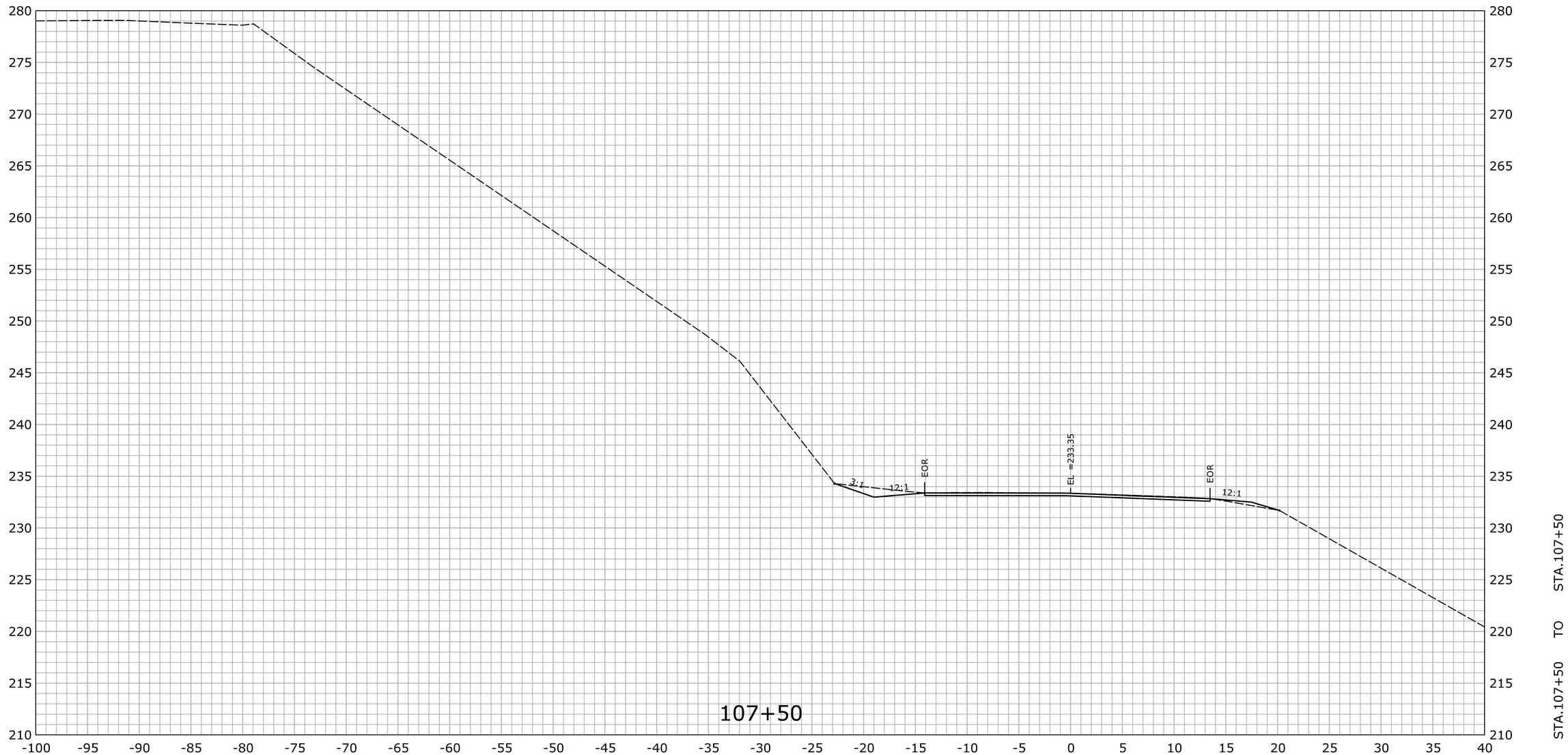
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-020**

SHEET NO. **03.067**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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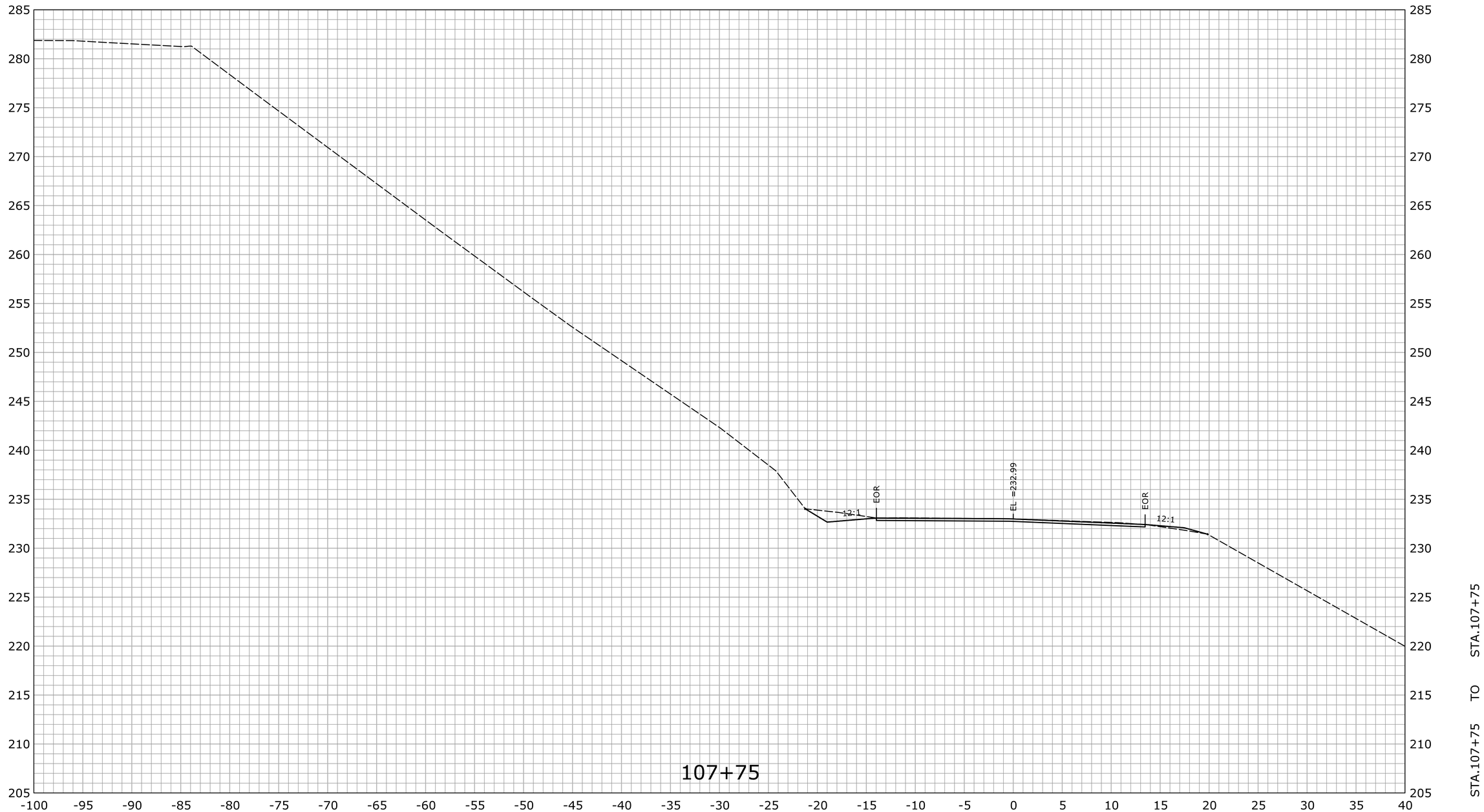
PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**
DRAWING NO. **XSC-021**
SHEET NO. **03.068**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

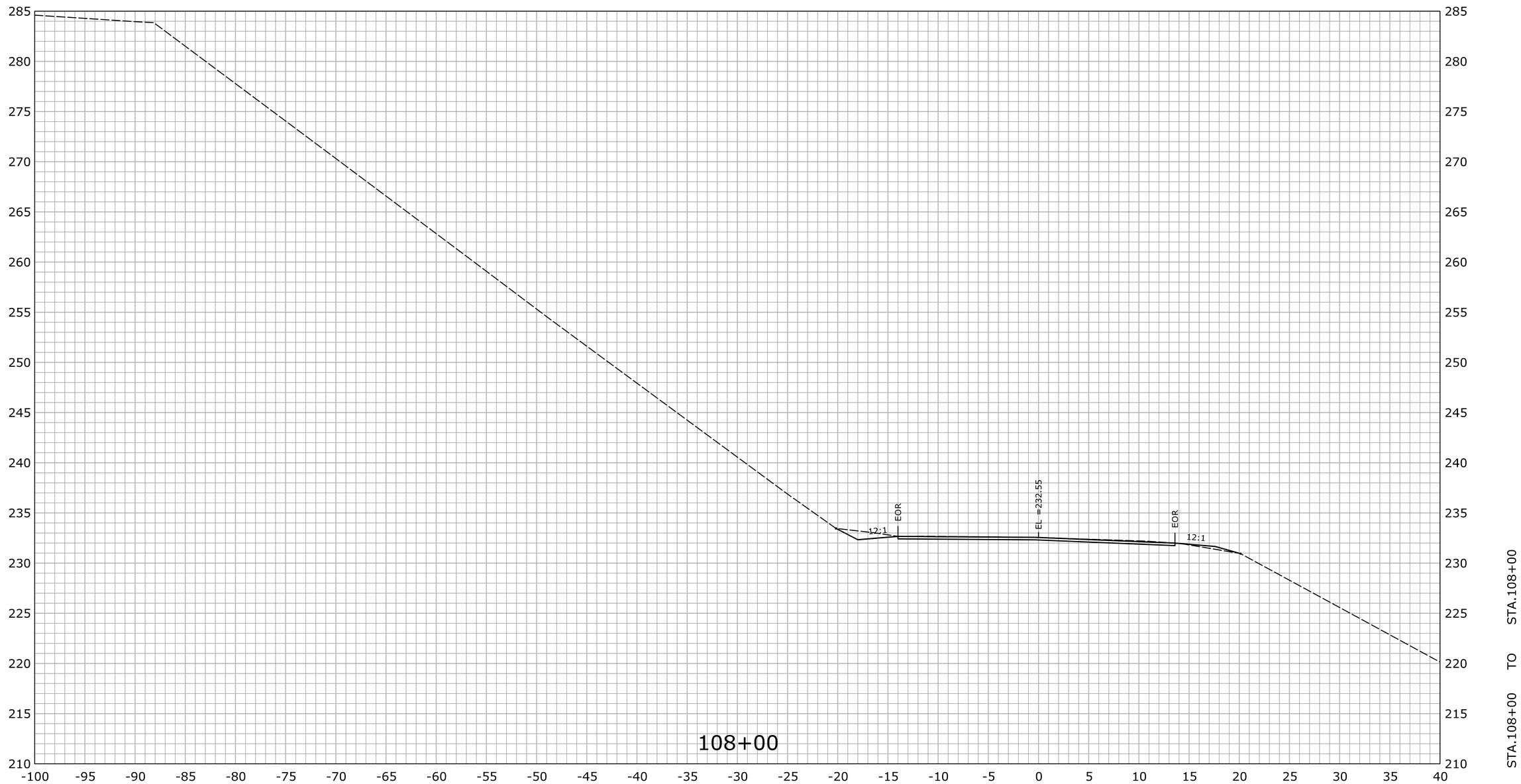
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-022**

SHEET NO. **03.069**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

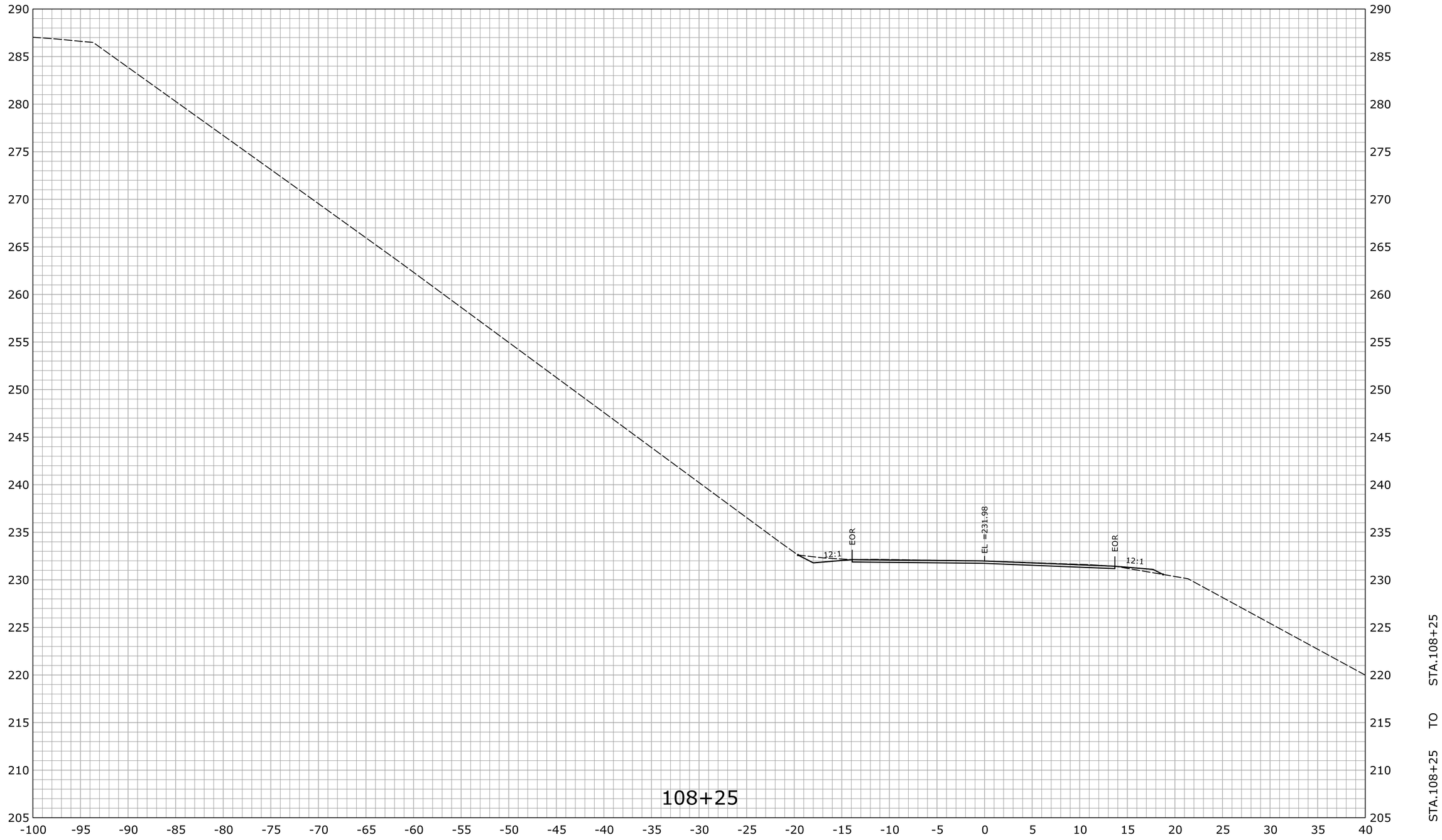
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-023**

SHEET NO. **03.070**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

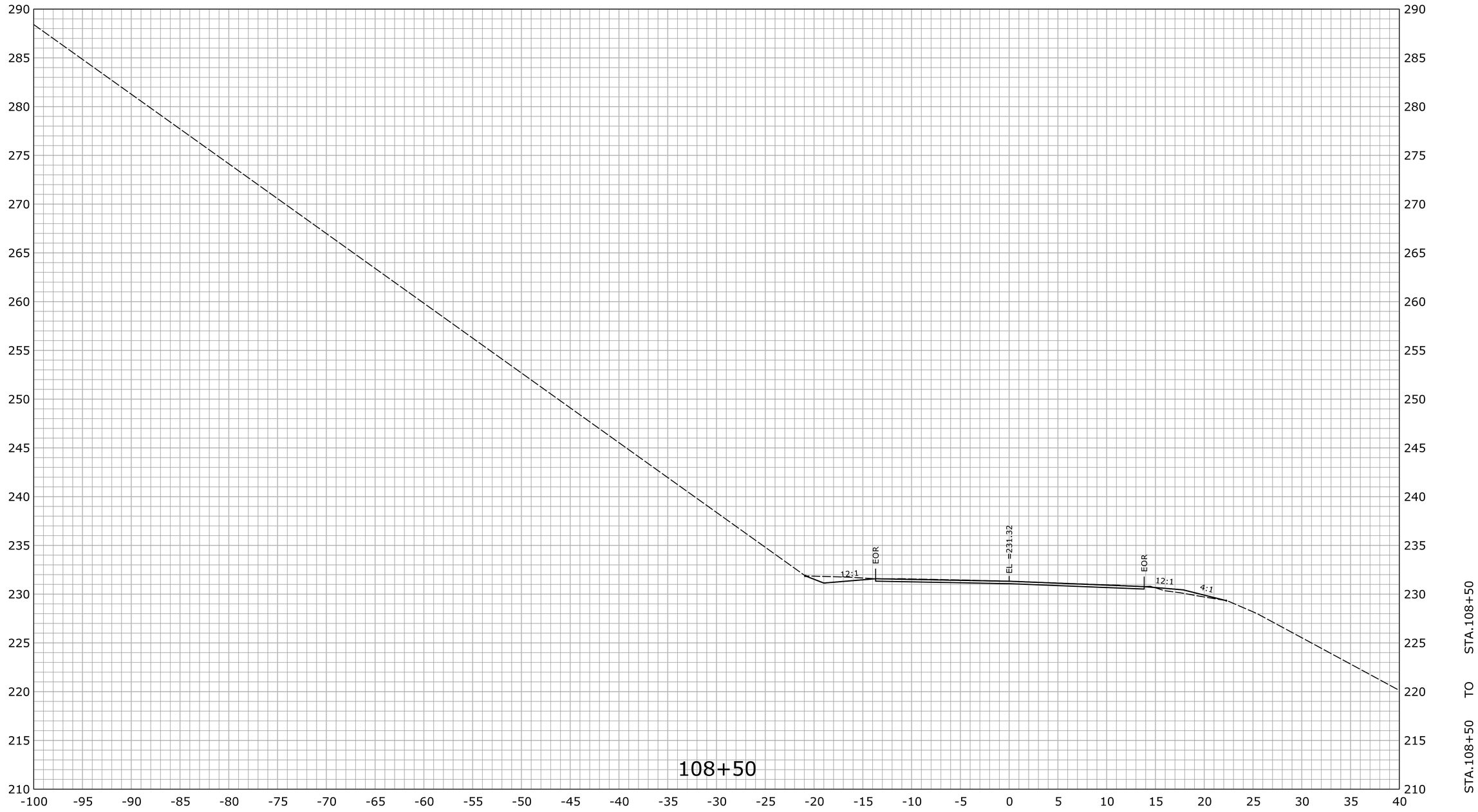
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-024**

SHEET NO. **03.071**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

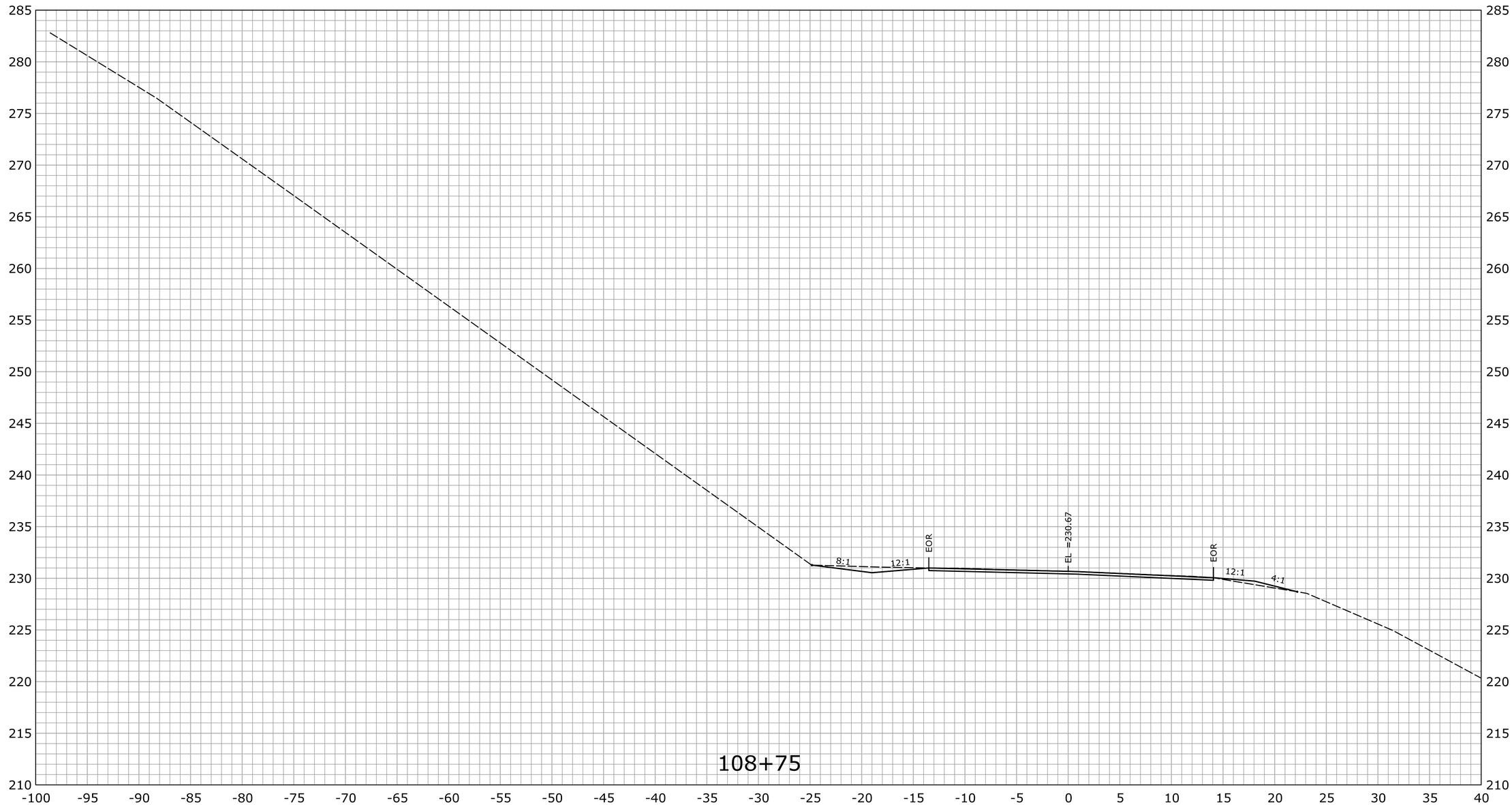
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-025**

SHEET NO. **03.072**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET 0 5 10

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APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

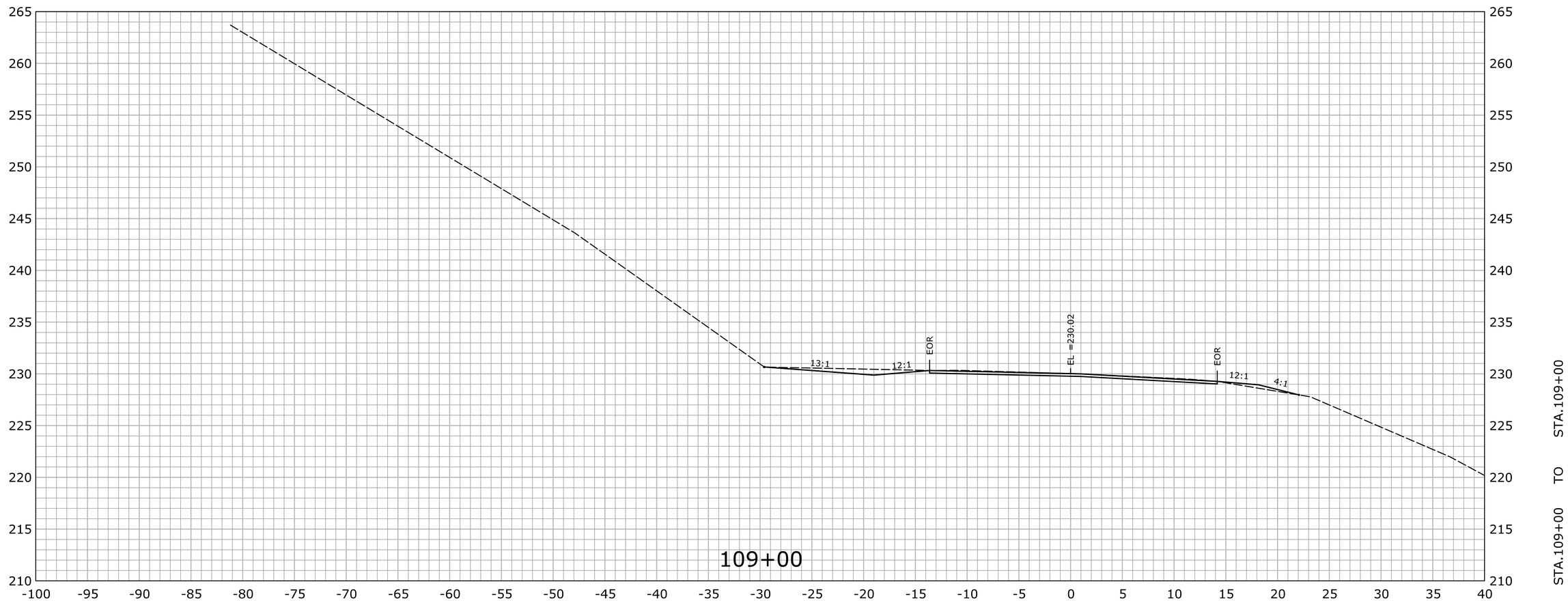
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-026**

SHEET NO. **03.073**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

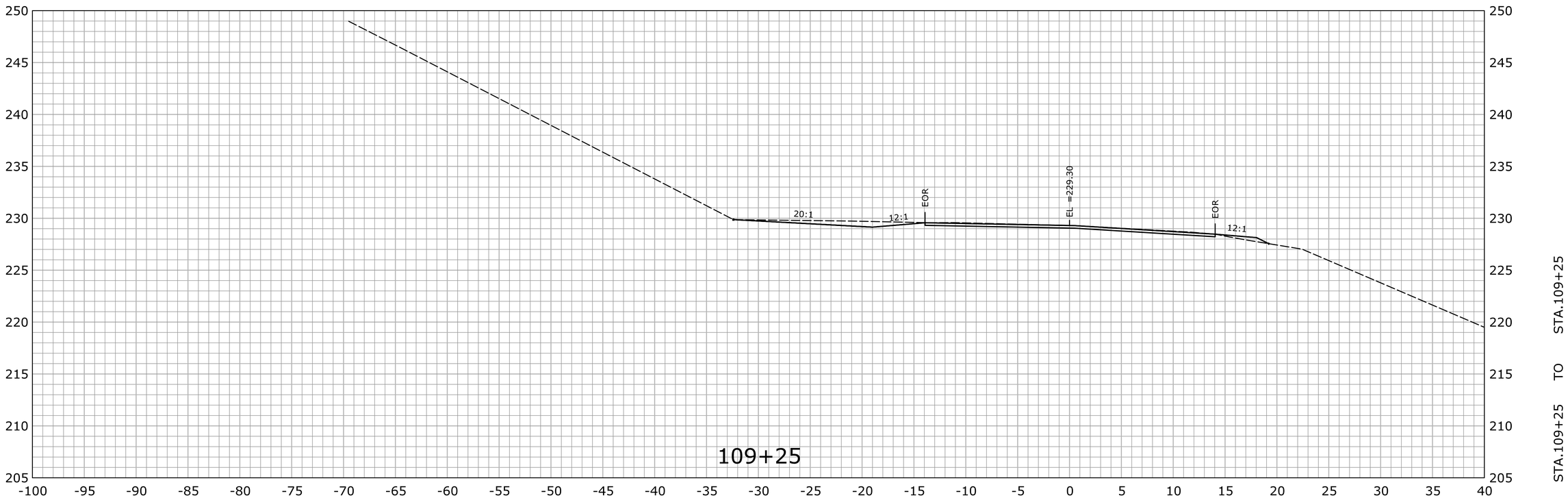
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-027**

SHEET NO. **03.074**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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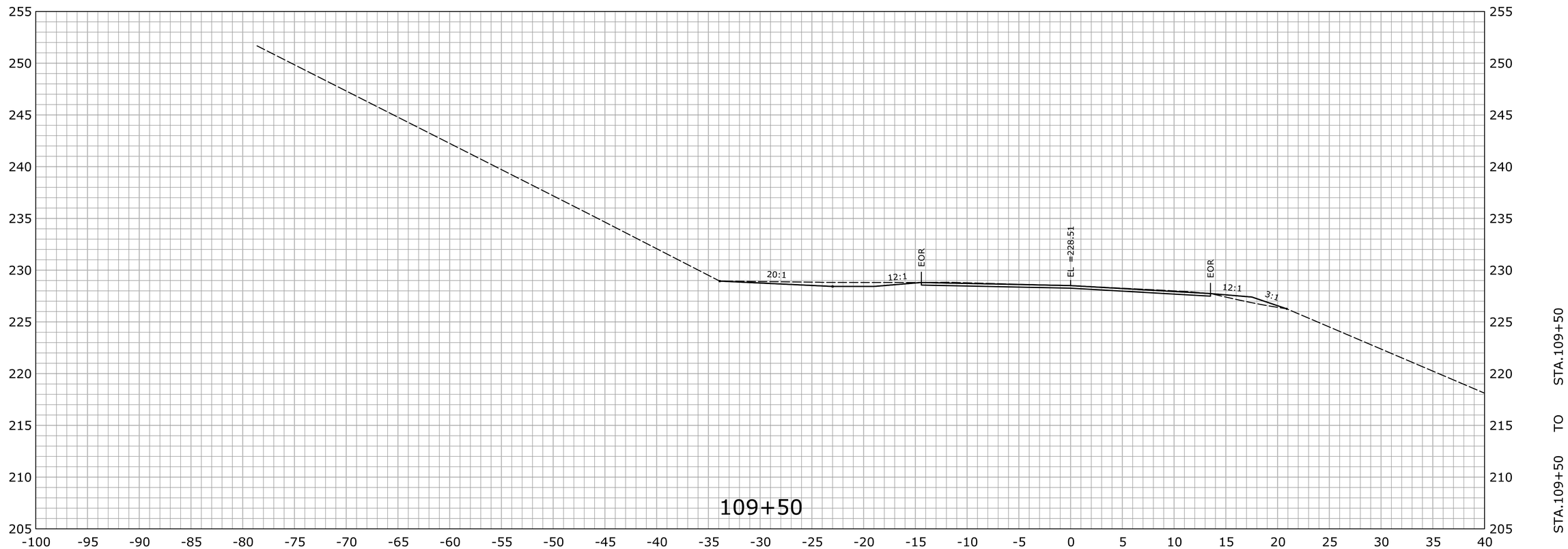
PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**
DRAWING NO. **XSC-028**
SHEET NO. **03.075**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

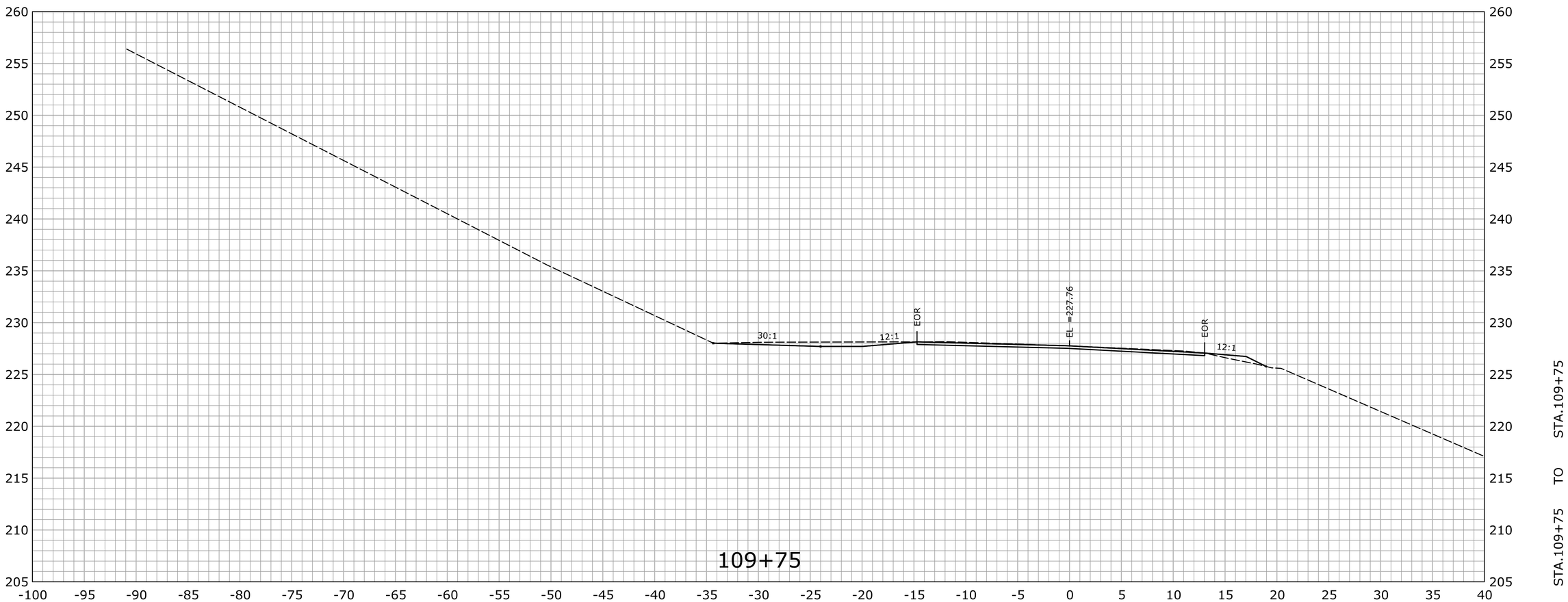
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-029**

SHEET NO. **03.076**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

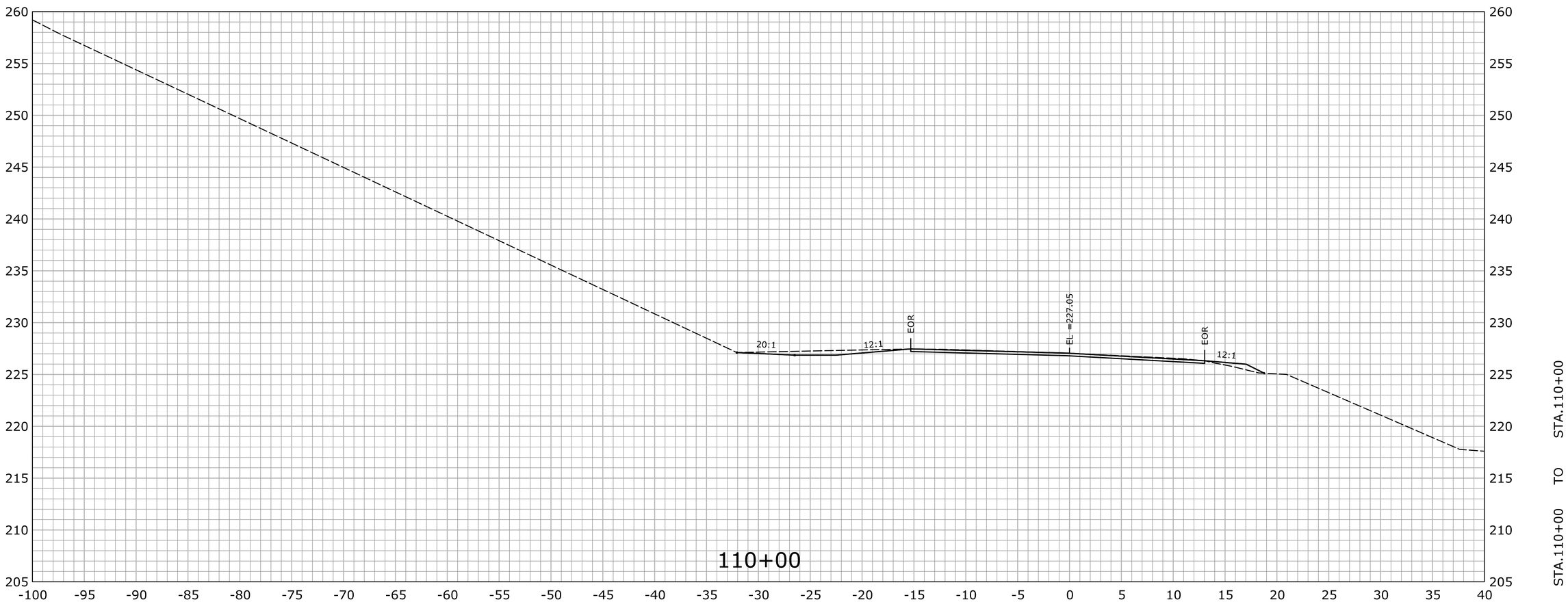
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-030**

SHEET NO. **03.077**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

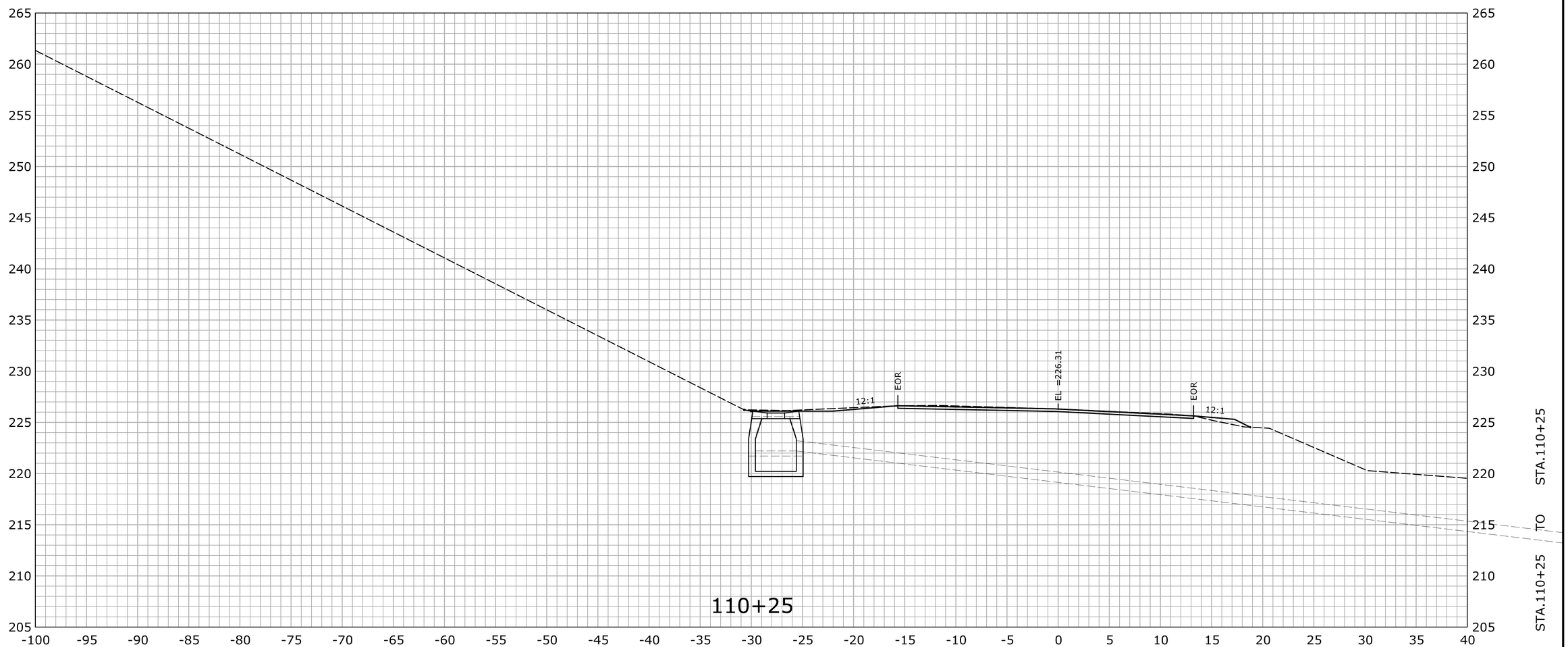
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-031**

SHEET NO. **03.078**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

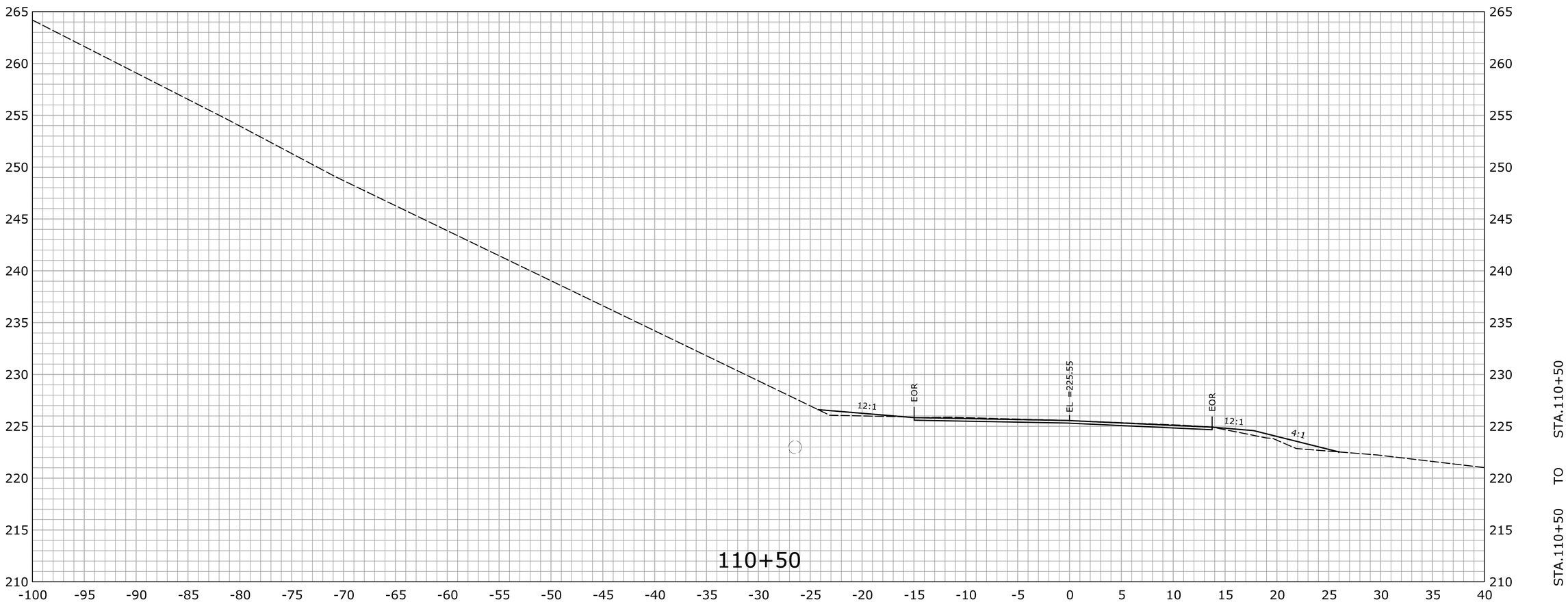
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-032**

SHEET NO. **03.079**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-033**

SHEET NO. **03.080**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

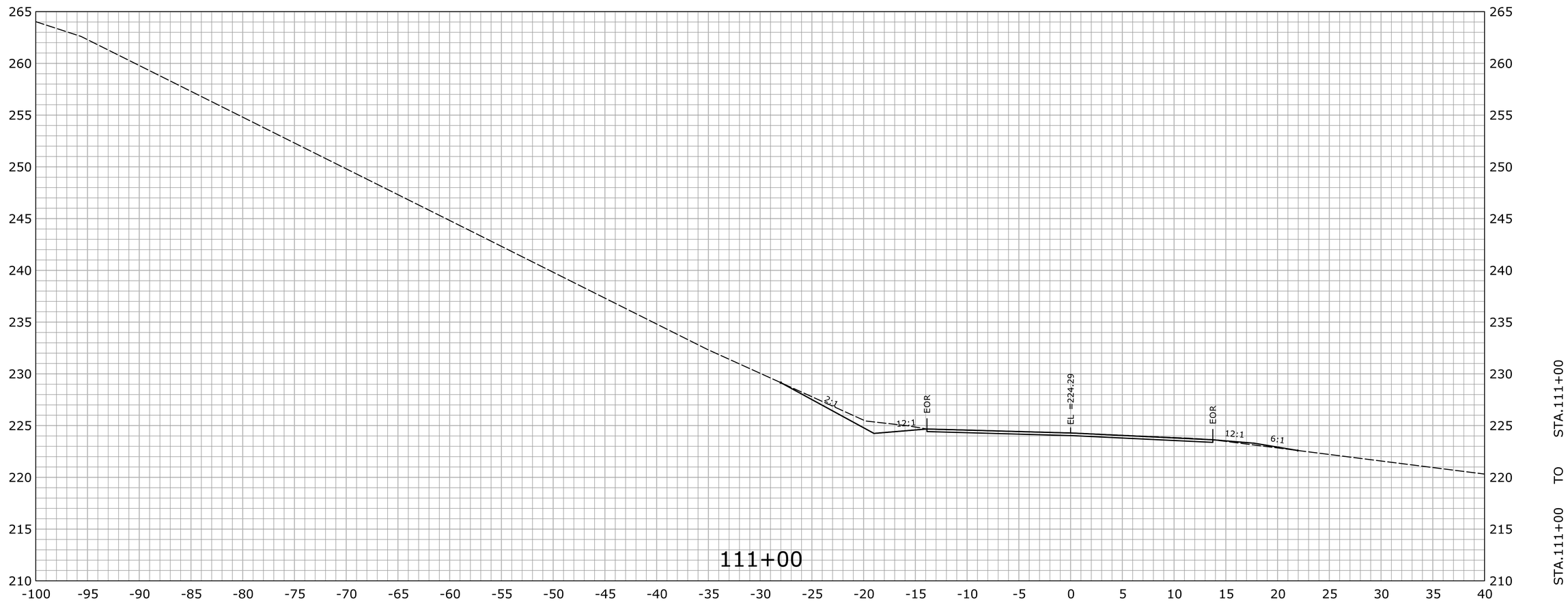
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-034**

SHEET NO. **03.081**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

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SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-035**

SHEET NO. **03.082**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

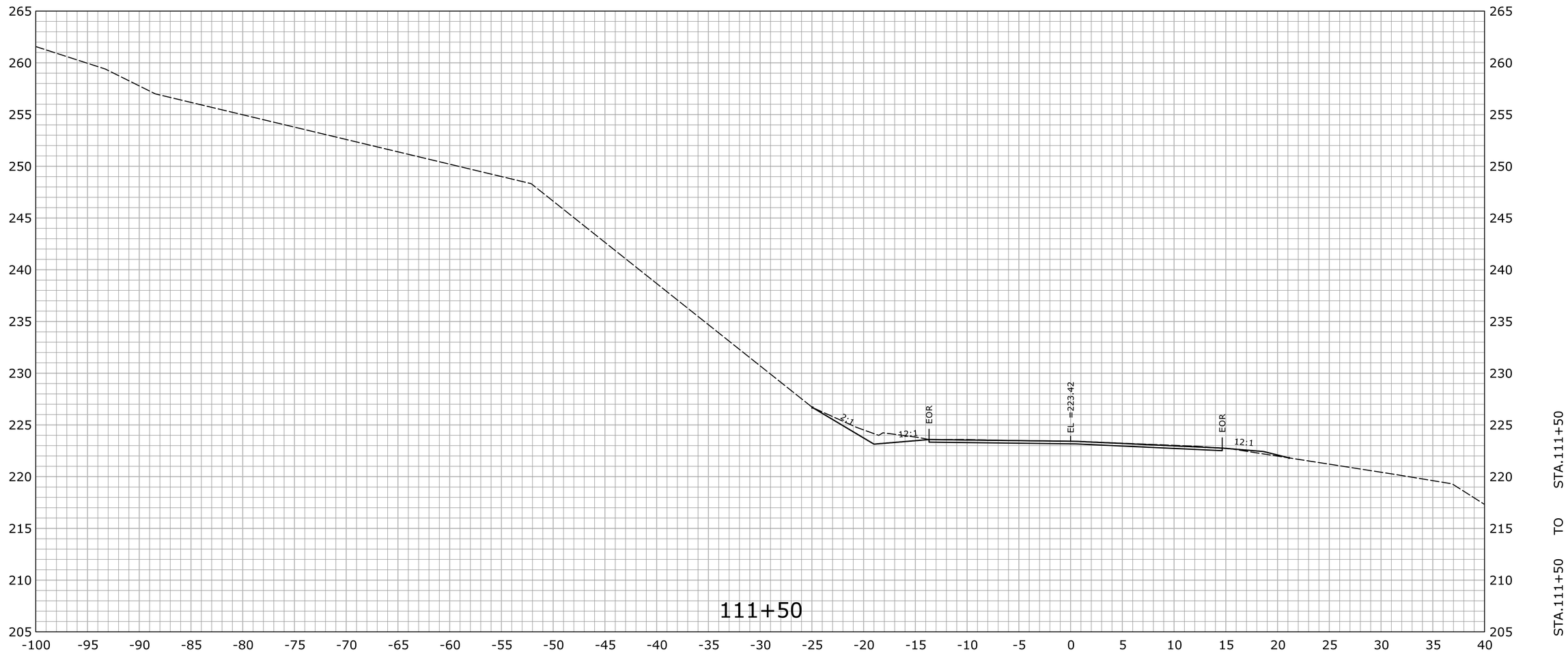
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-036**

SHEET NO. **03.083**



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SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-037**

SHEET NO. **03.084**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

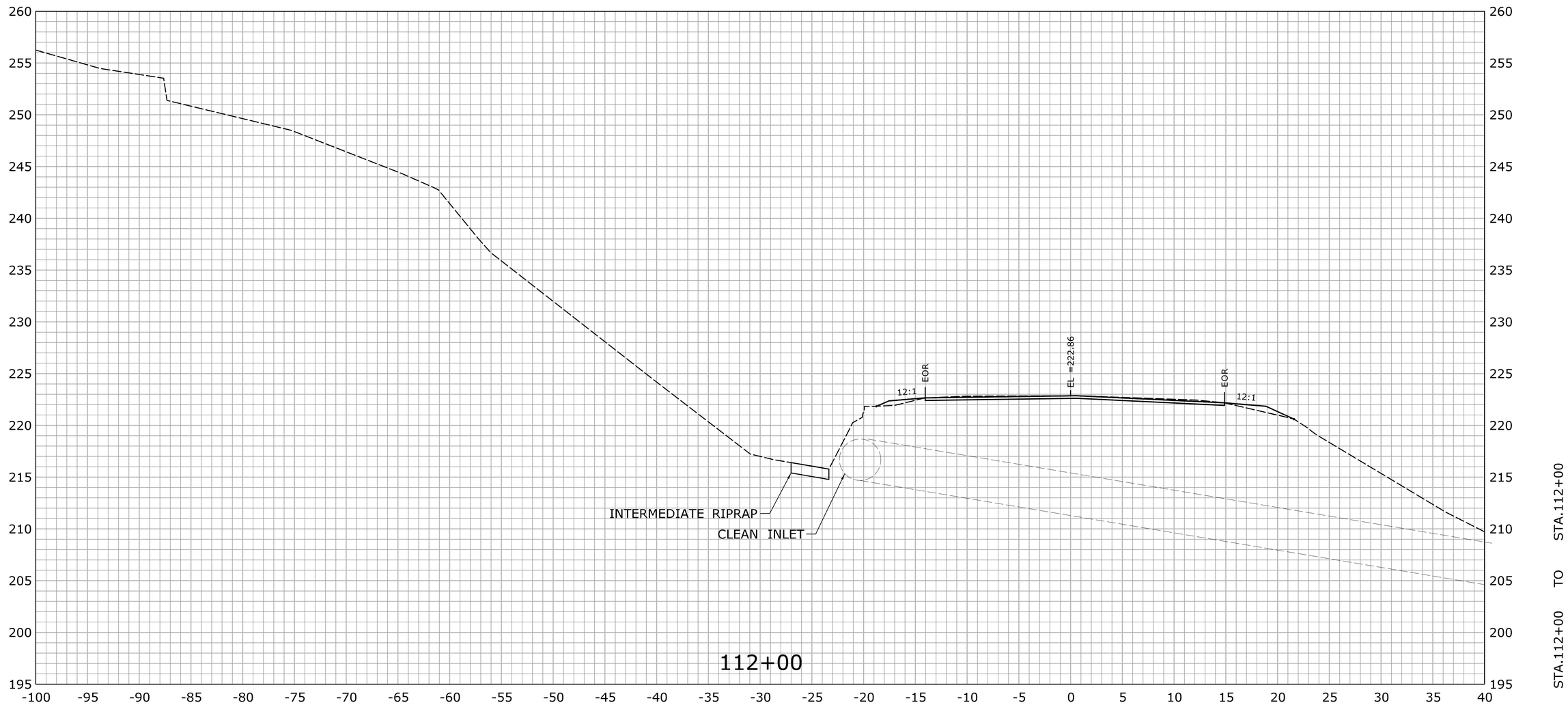
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-038**

SHEET NO. **03.085**



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SAFETY IMPROVEMENTS ON ROUTE 133

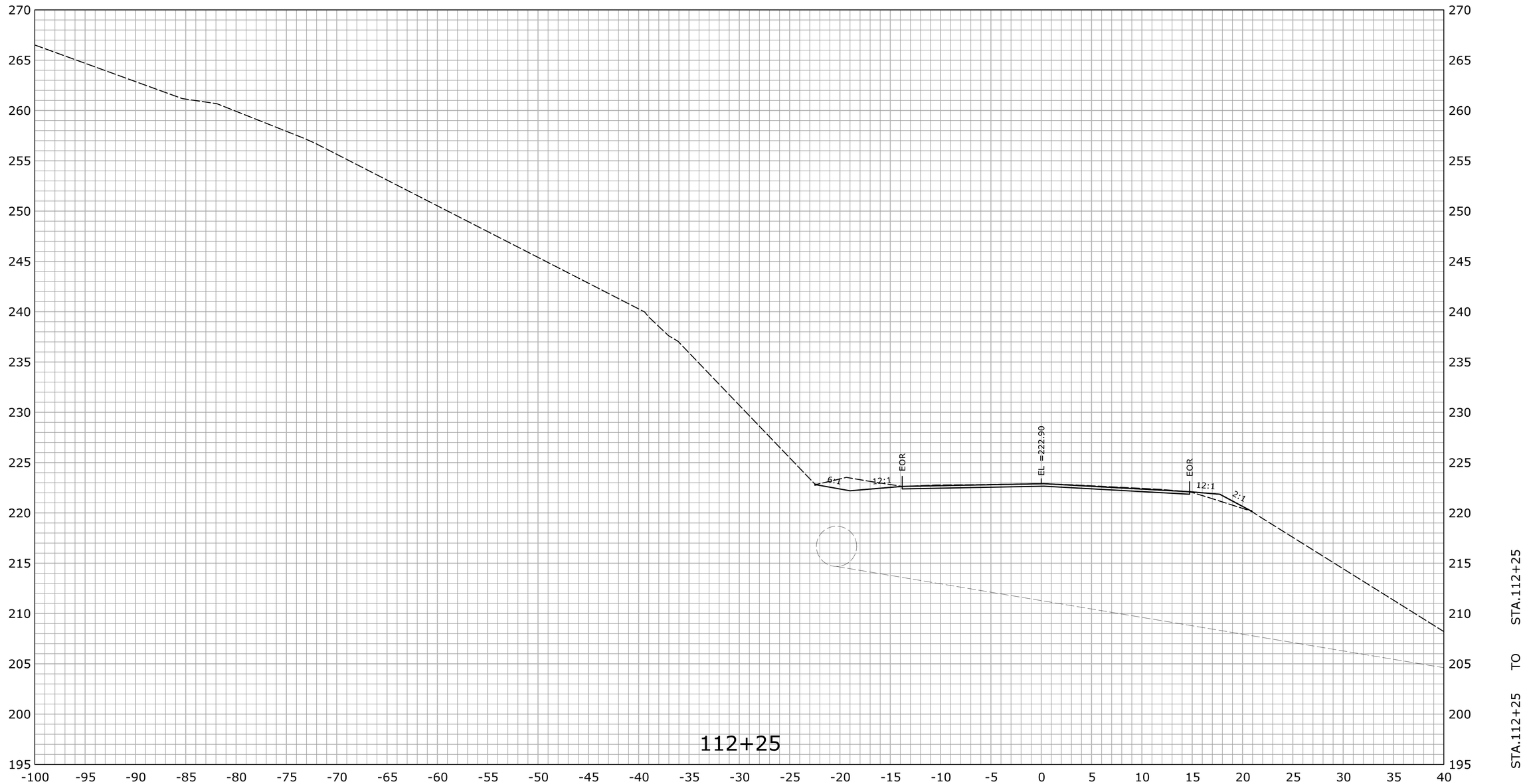
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-039**

SHEET NO. **03.086**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

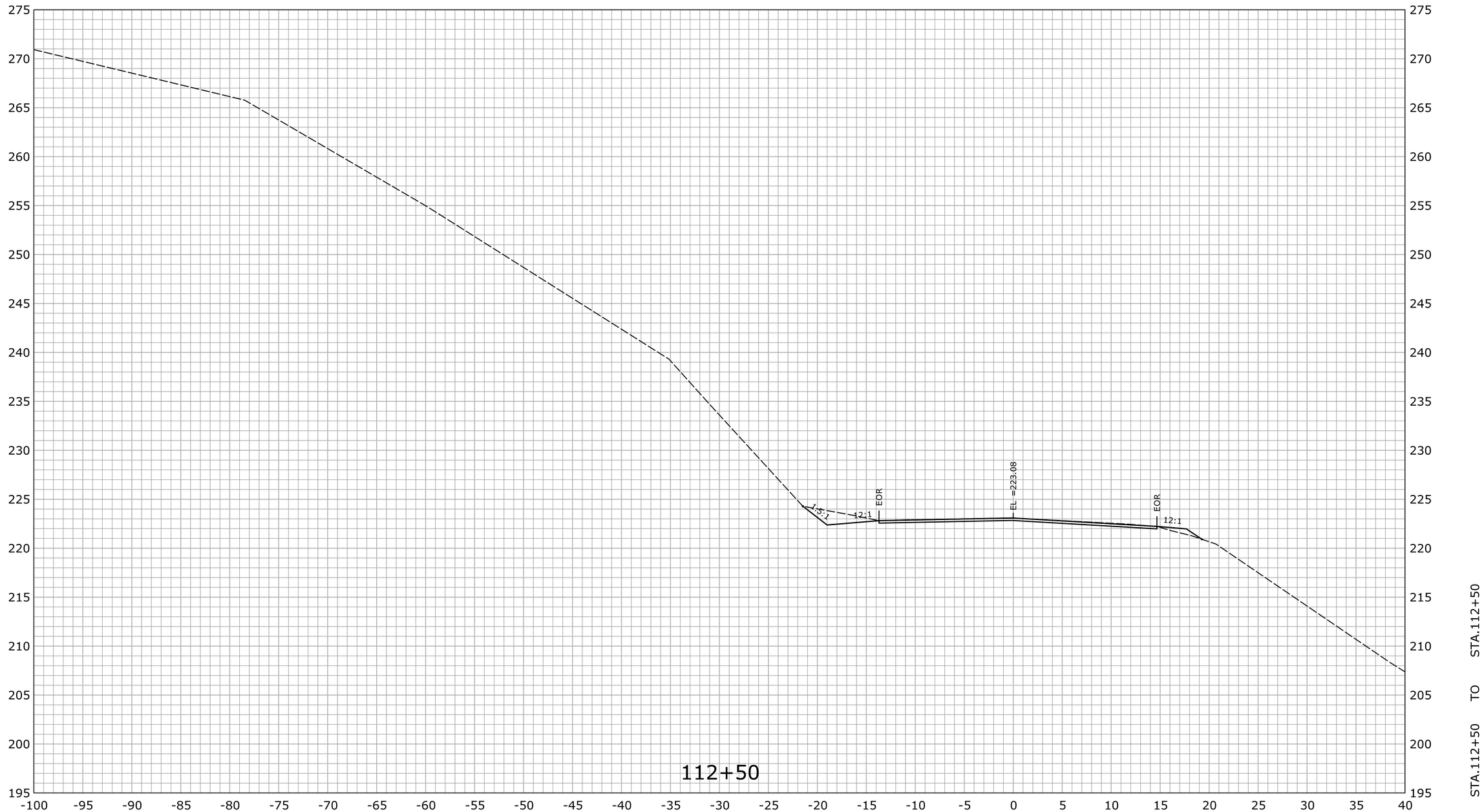
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-040**

SHEET NO. **03.087**



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SAFETY IMPROVEMENTS ON ROUTE 133

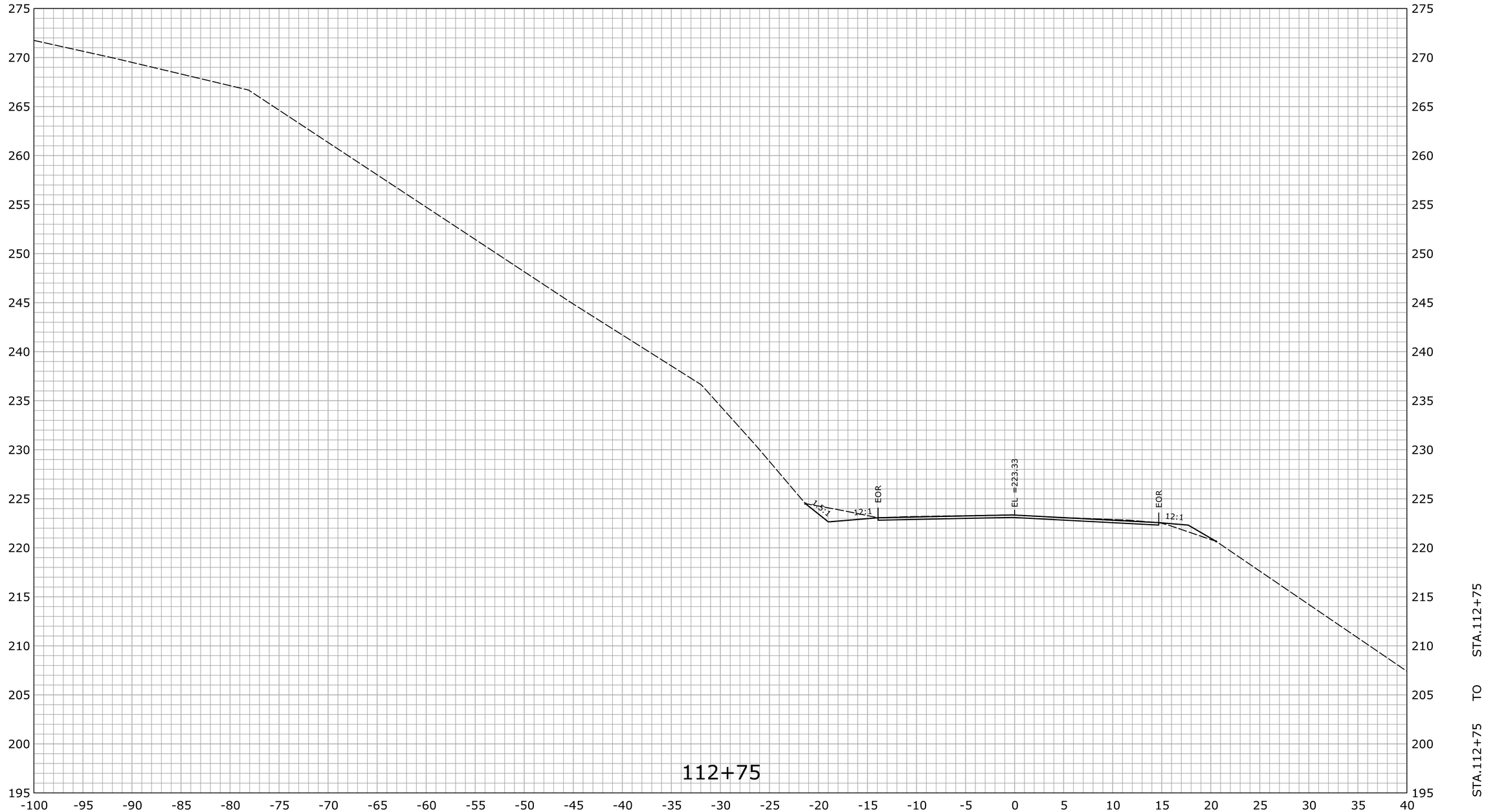
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-041**

SHEET NO. **03.088**



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SAFETY IMPROVEMENTS ON ROUTE 133

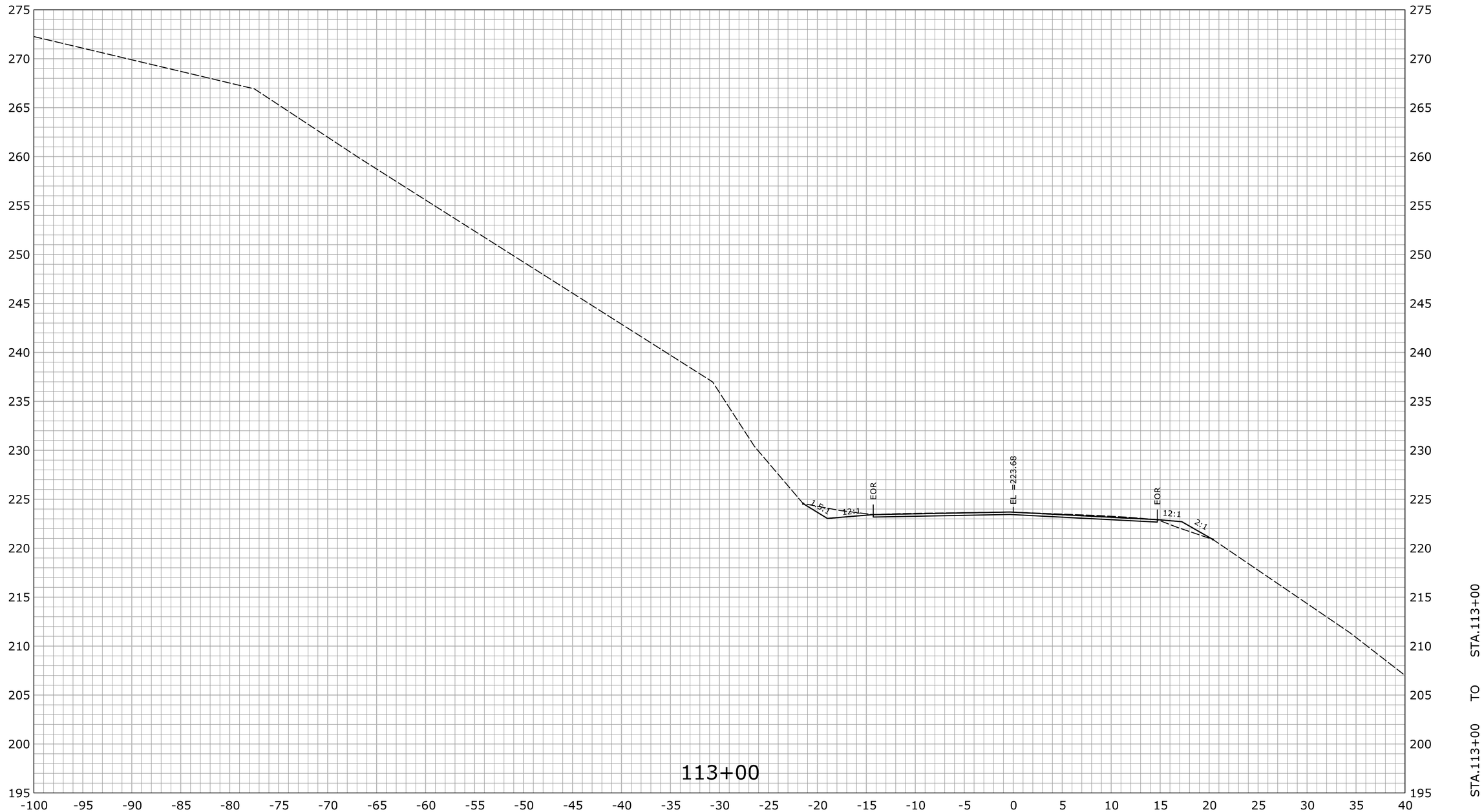
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-042**

SHEET NO. **03.089**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

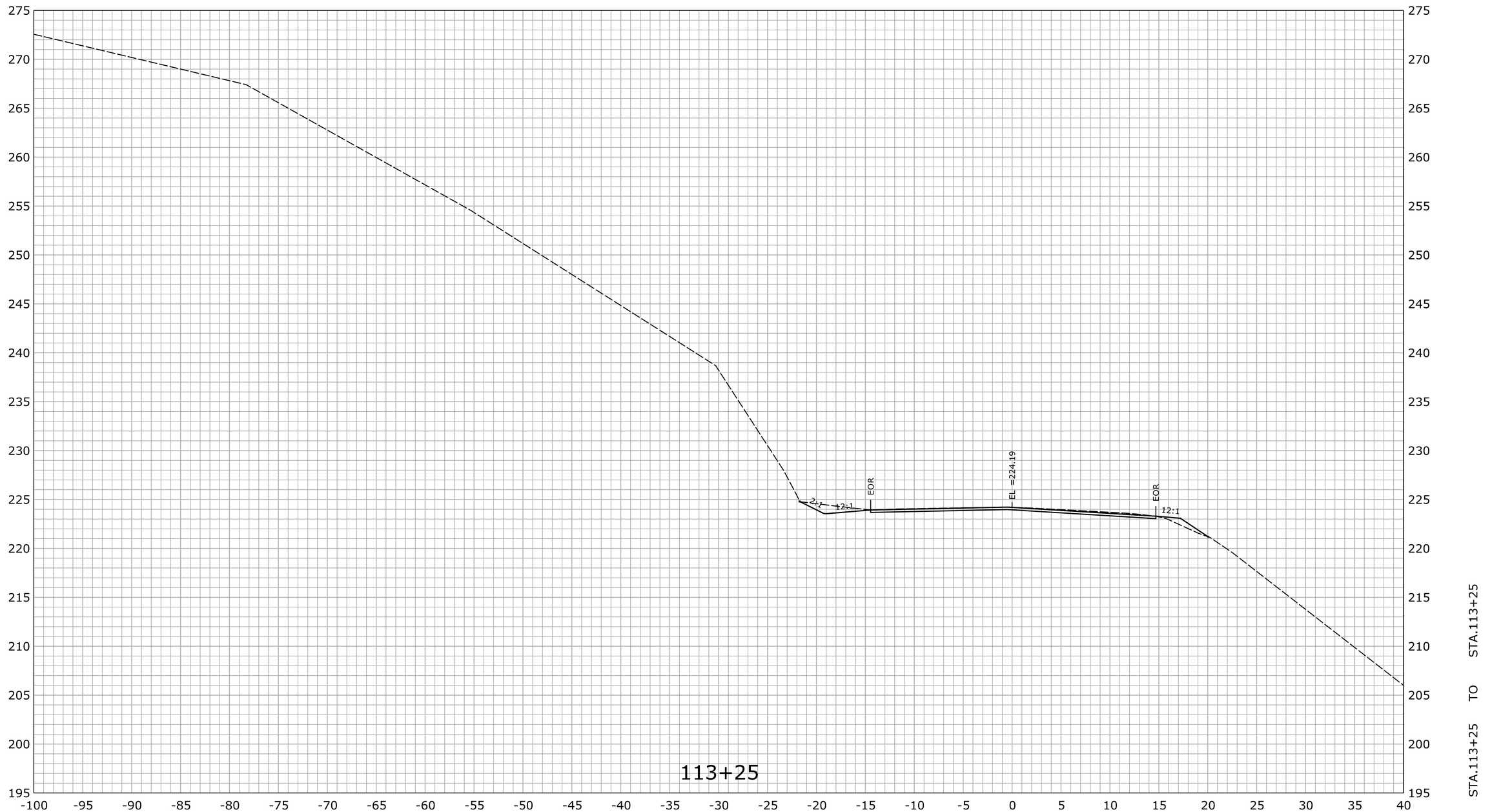
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-043**

SHEET NO. **03.090**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

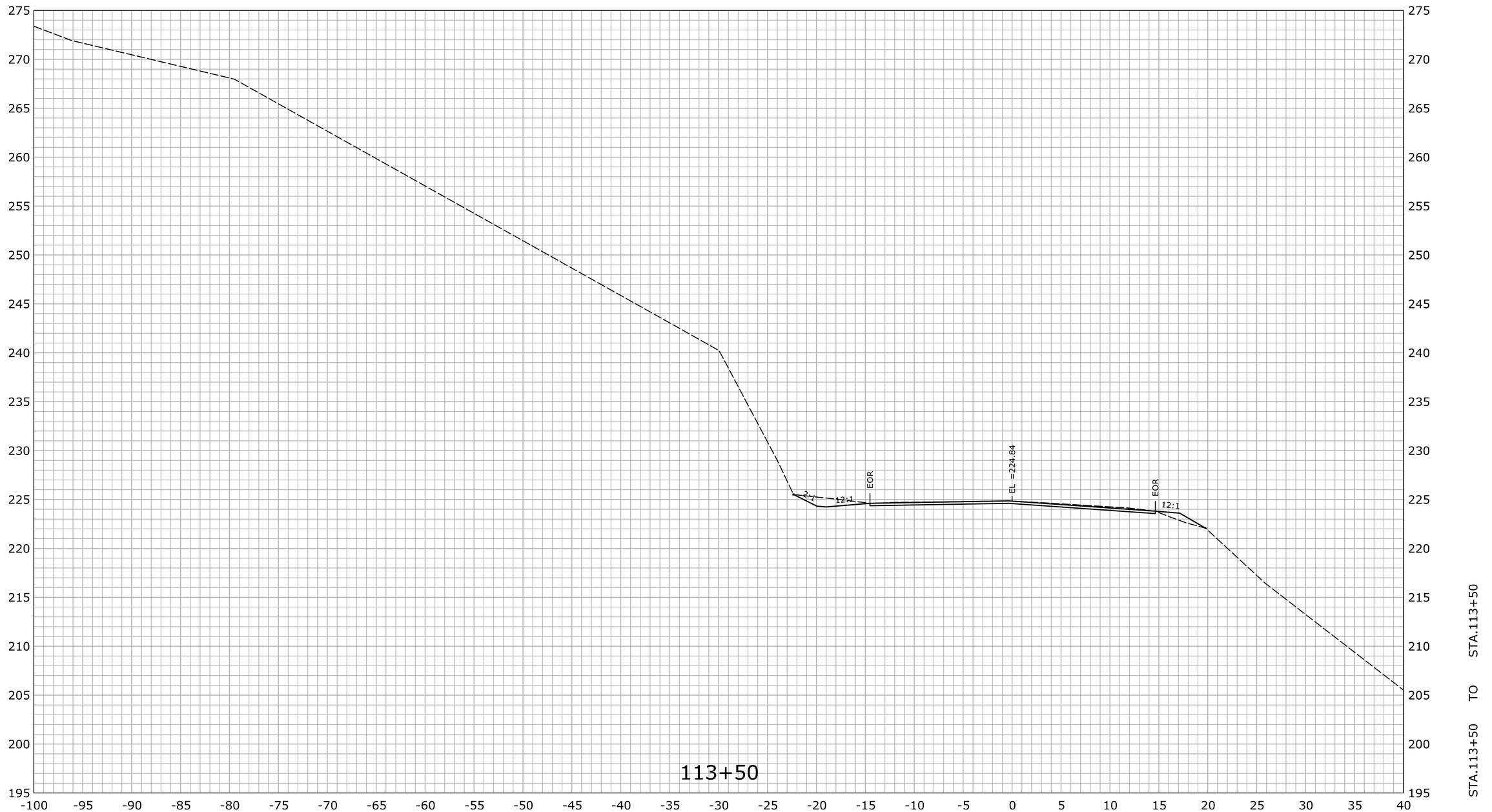
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-044**

SHEET NO. **03.091**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-045**

SHEET NO. **03.092**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-046**

SHEET NO. **03.093**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-047**

SHEET NO. **03.094**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-048**

SHEET NO. **03.095**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-049**

SHEET NO. **03.096**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

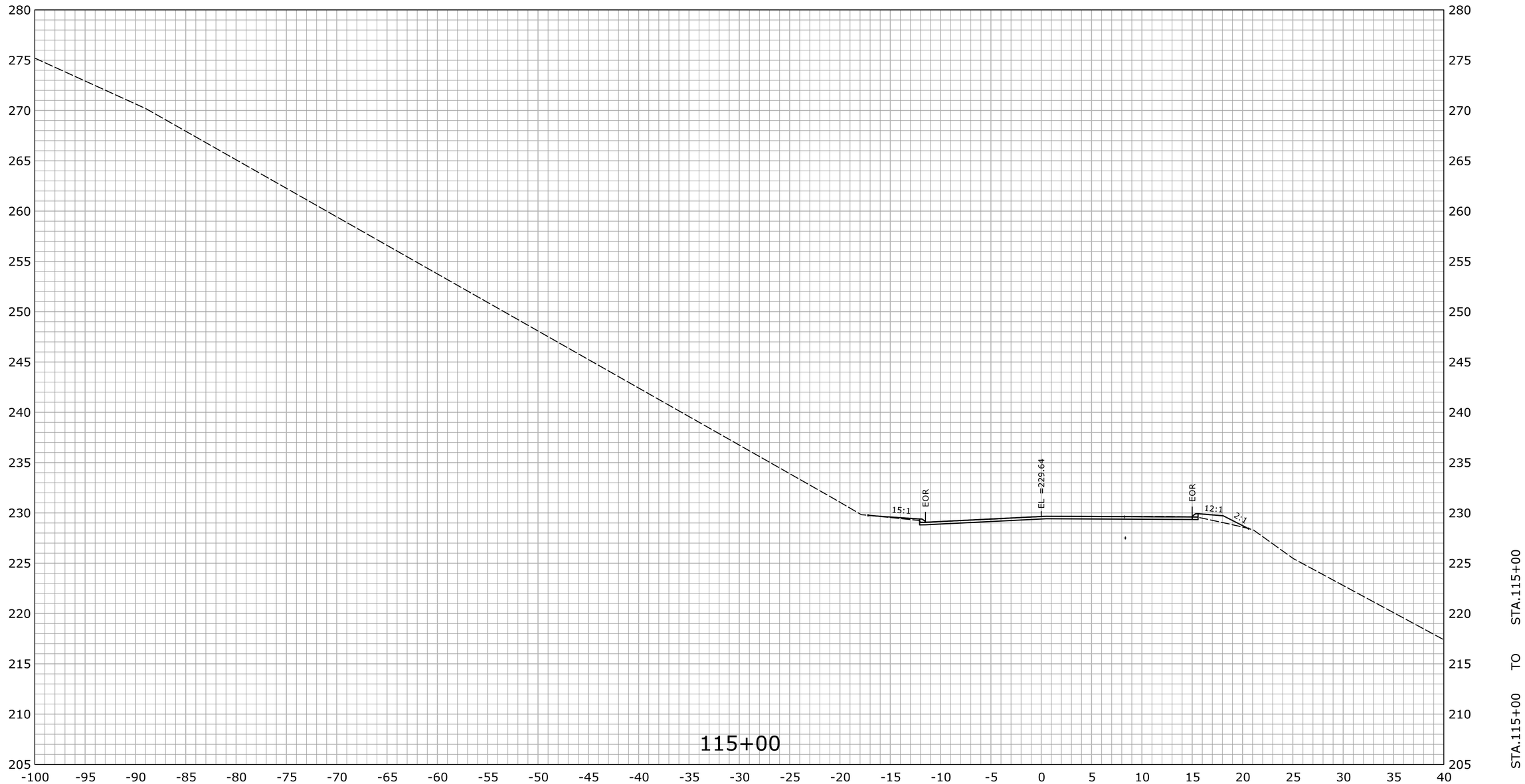
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-050**

SHEET NO. **03.097**



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SAFETY IMPROVEMENTS ON ROUTE 133

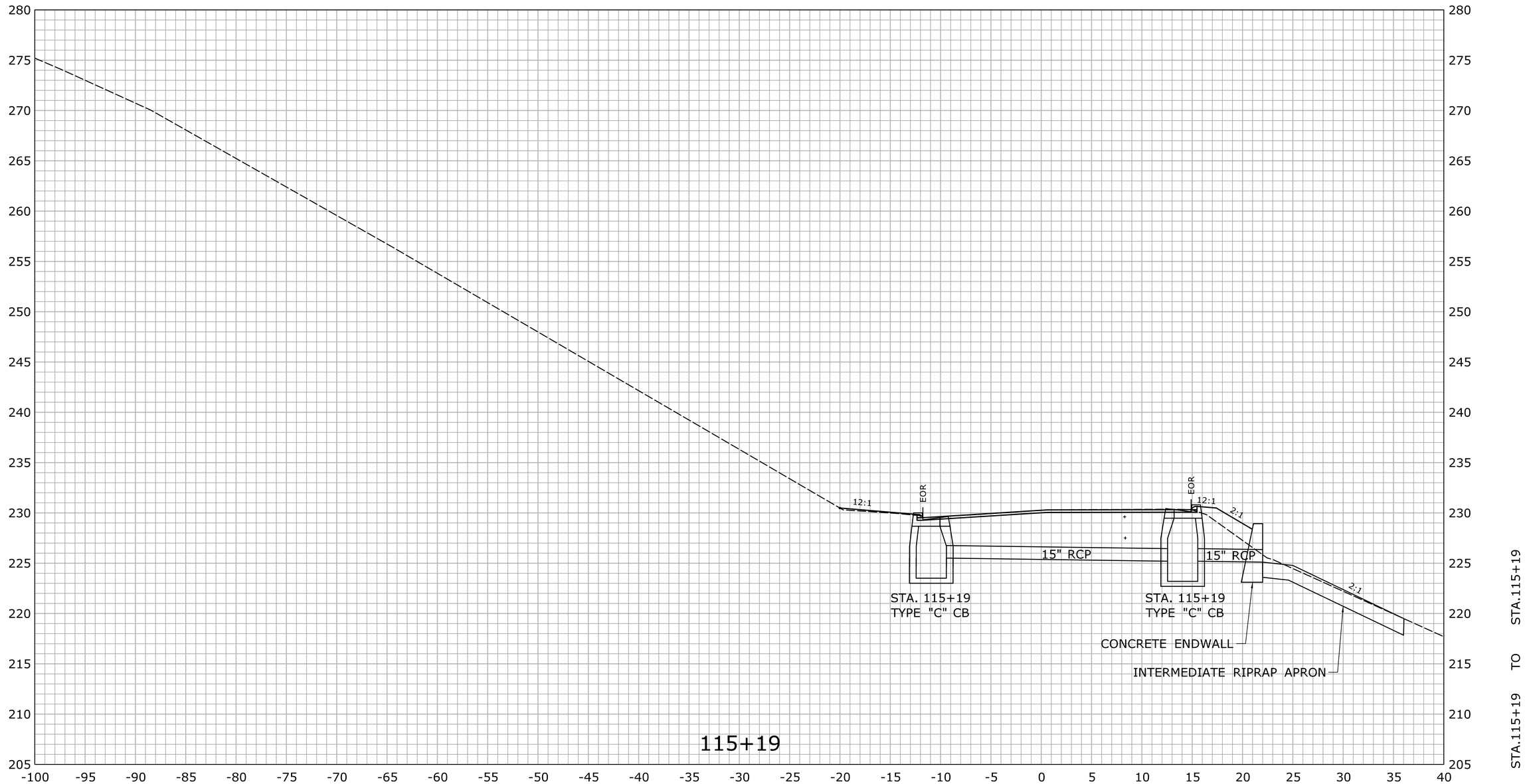
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-051**

SHEET NO. **03.098**



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TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-052**

SHEET NO. **03.099**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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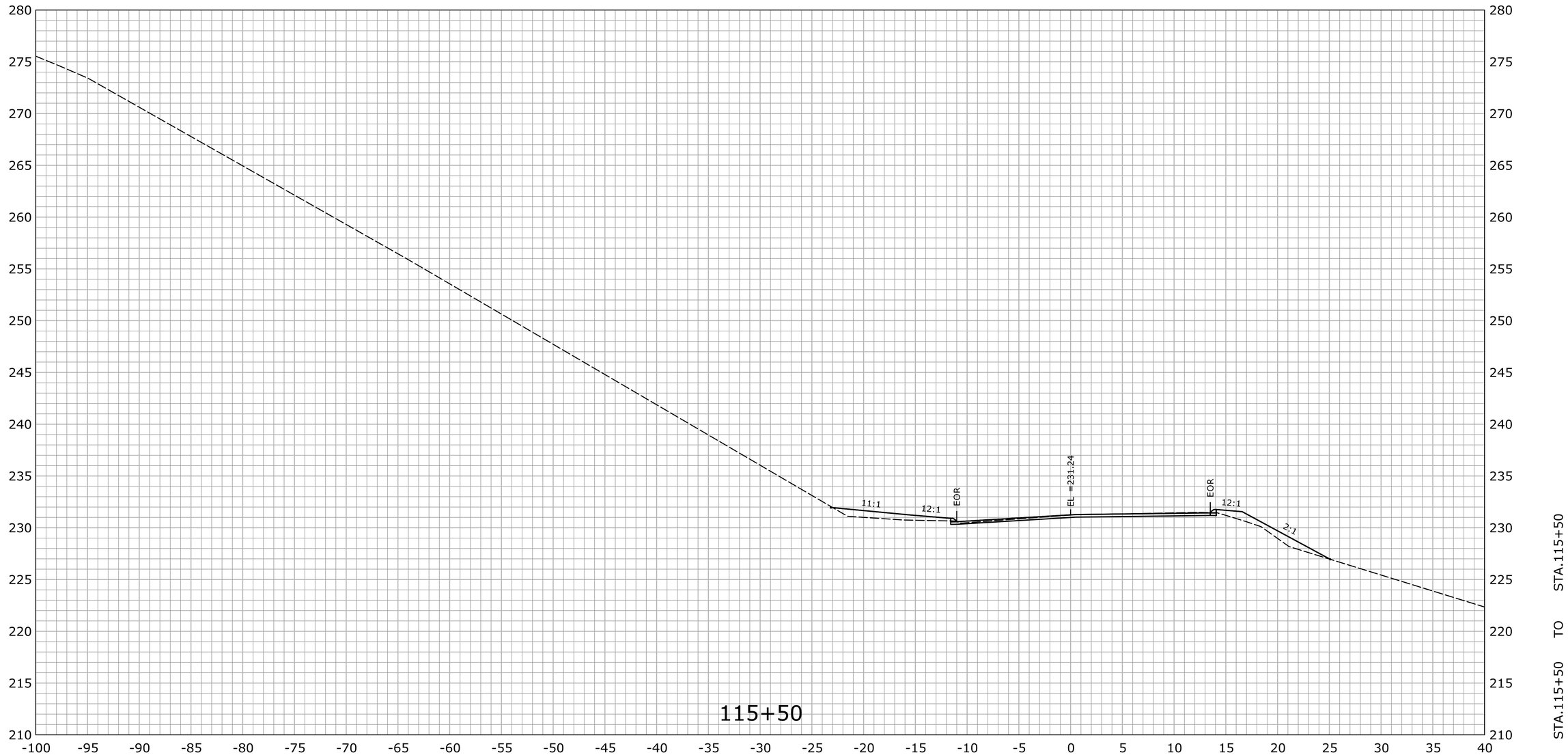
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-053**

SHEET NO. **03.100**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

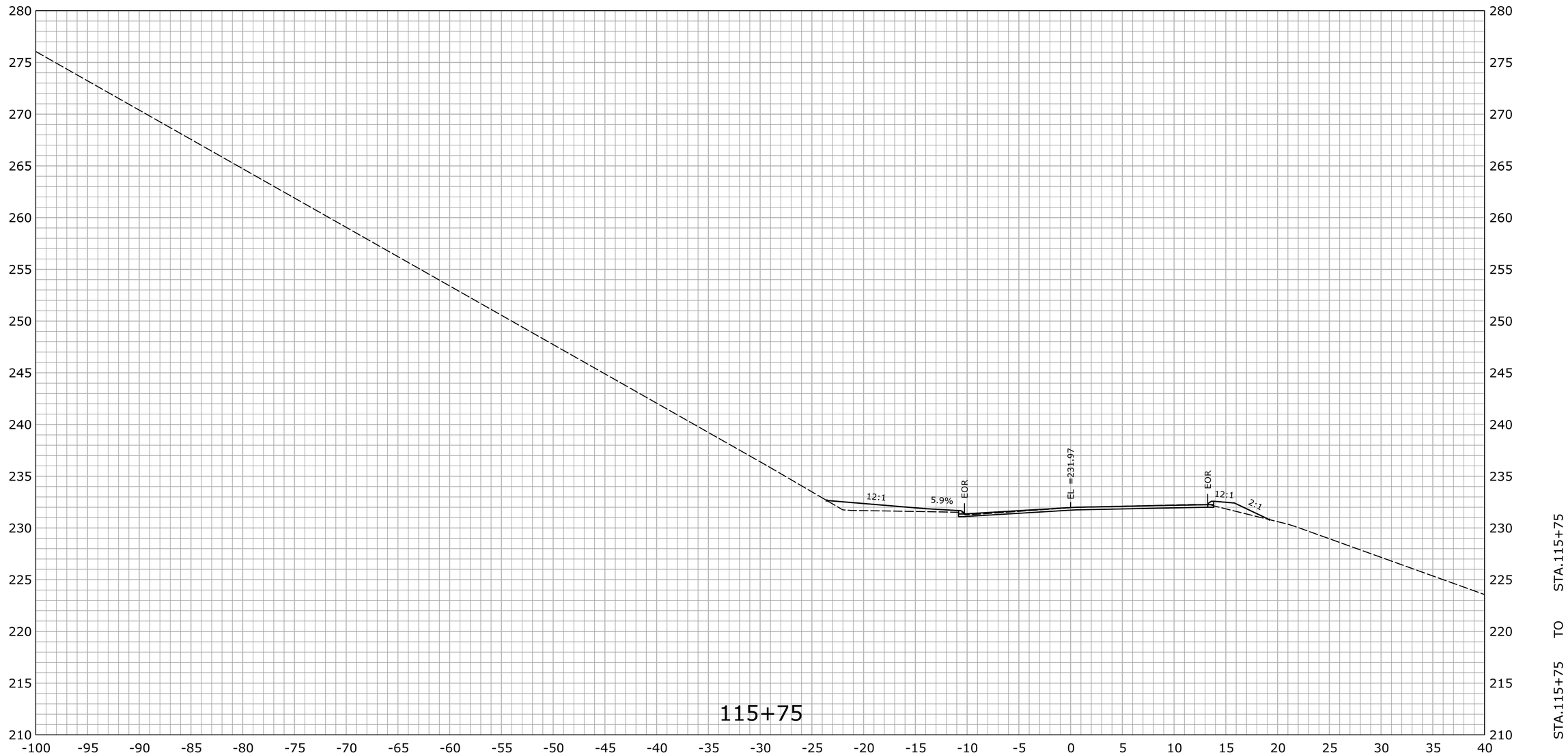
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-054**

SHEET NO. **03.101**



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SAFETY IMPROVEMENTS ON ROUTE 133

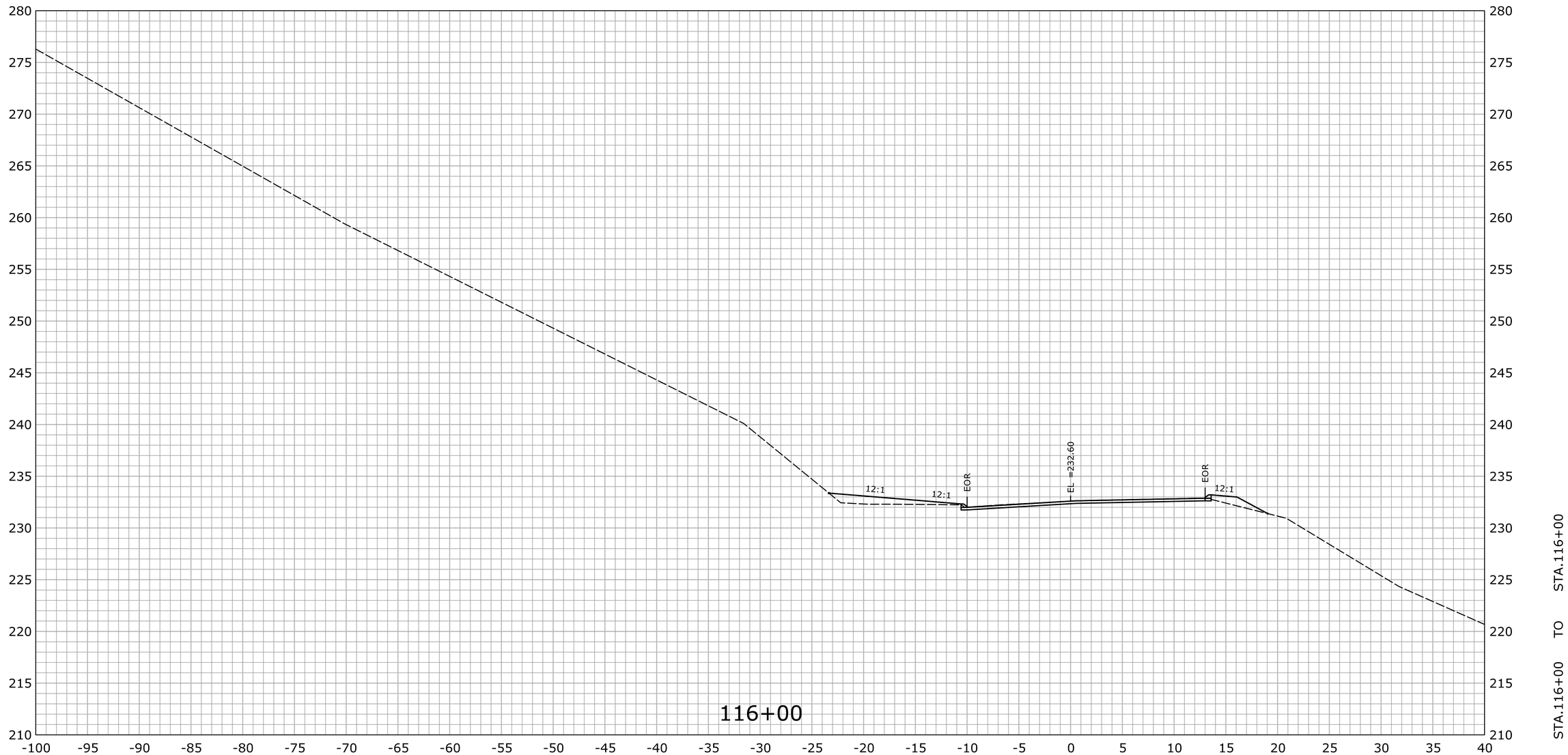
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-055**

SHEET NO. **03.102**



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SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-056**

SHEET NO. **03.103**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

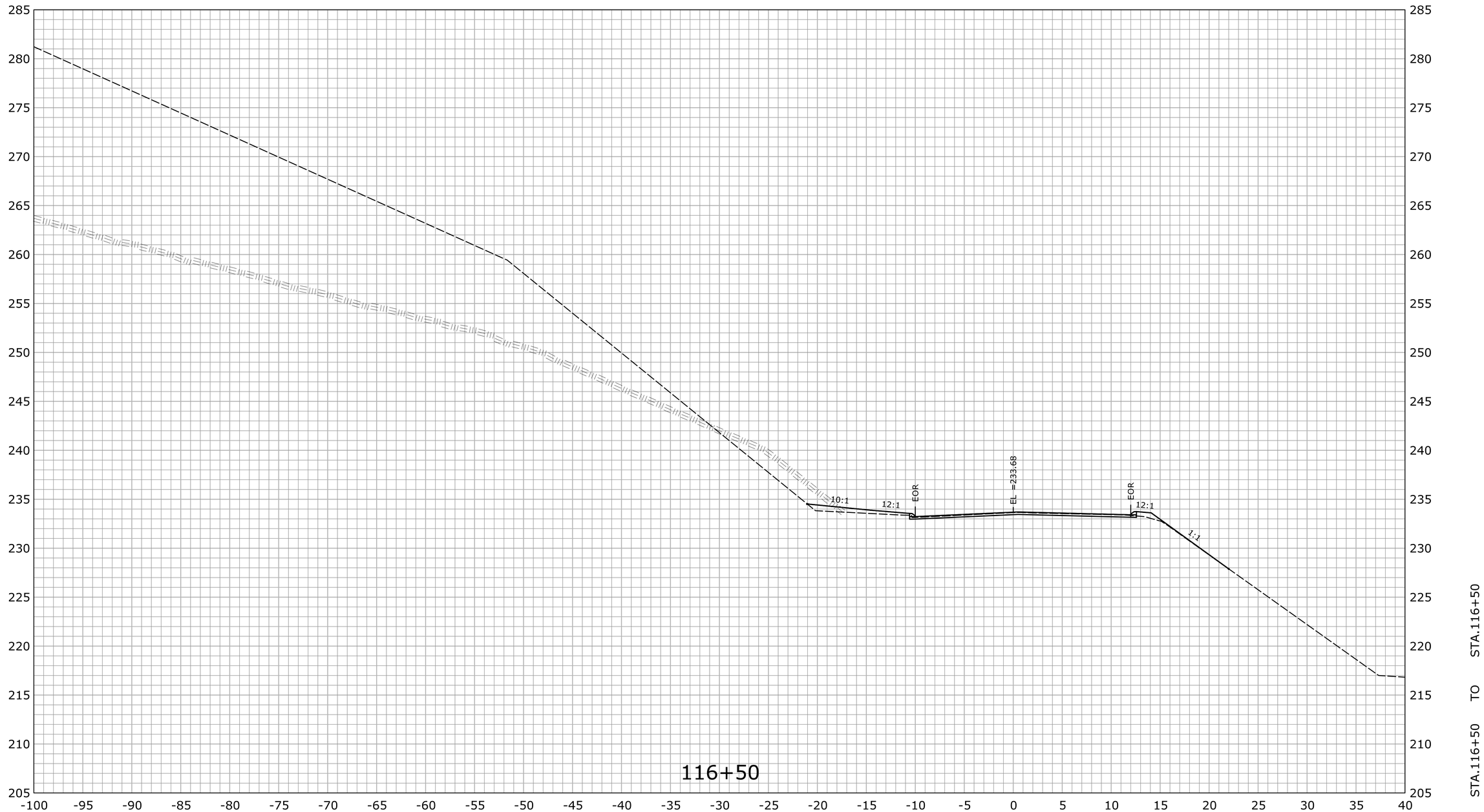
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-057**

SHEET NO. **03.104**



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SAFETY IMPROVEMENTS ON ROUTE 133

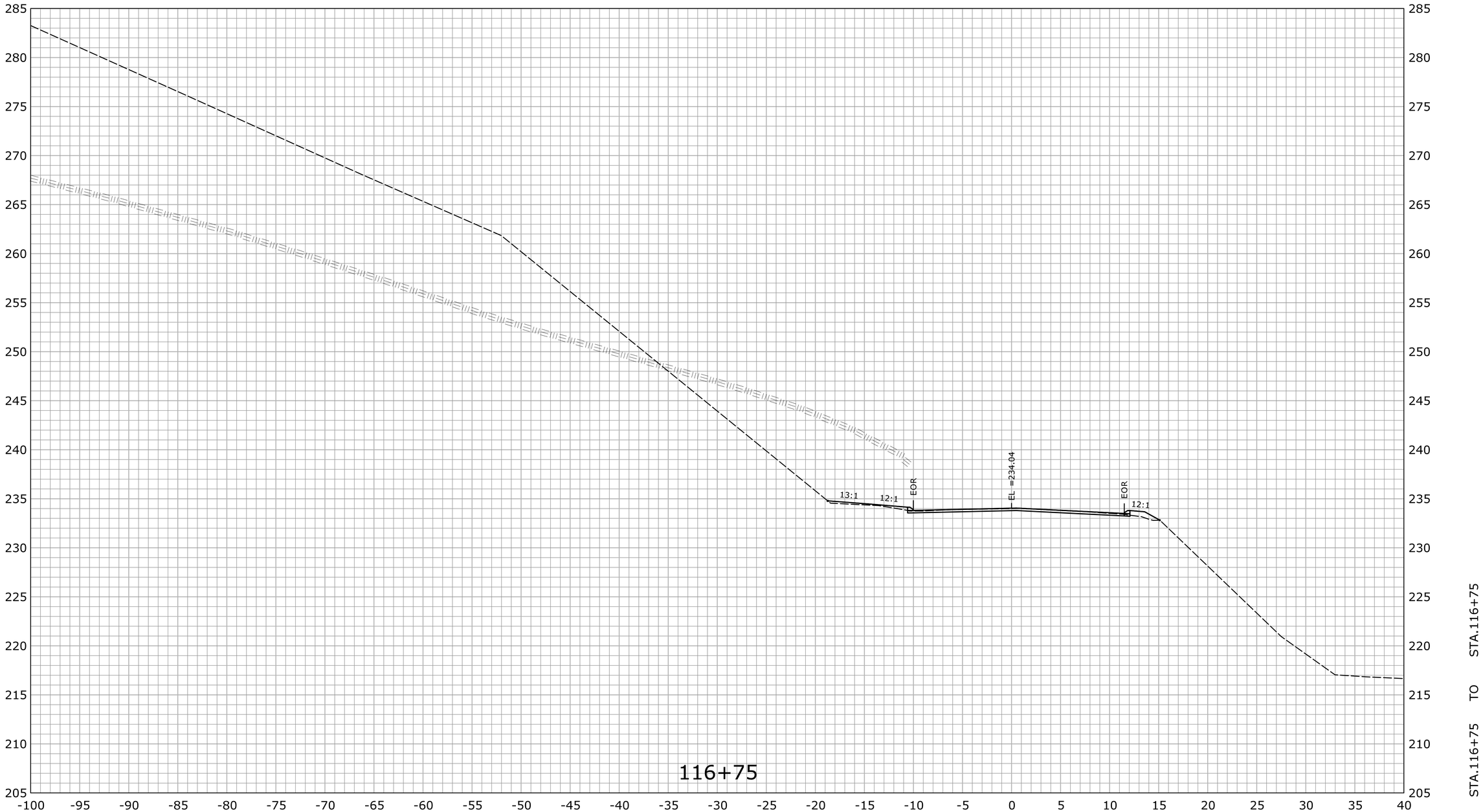
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-058**

SHEET NO. **03.105**



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SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-059**

SHEET NO. **03.106**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

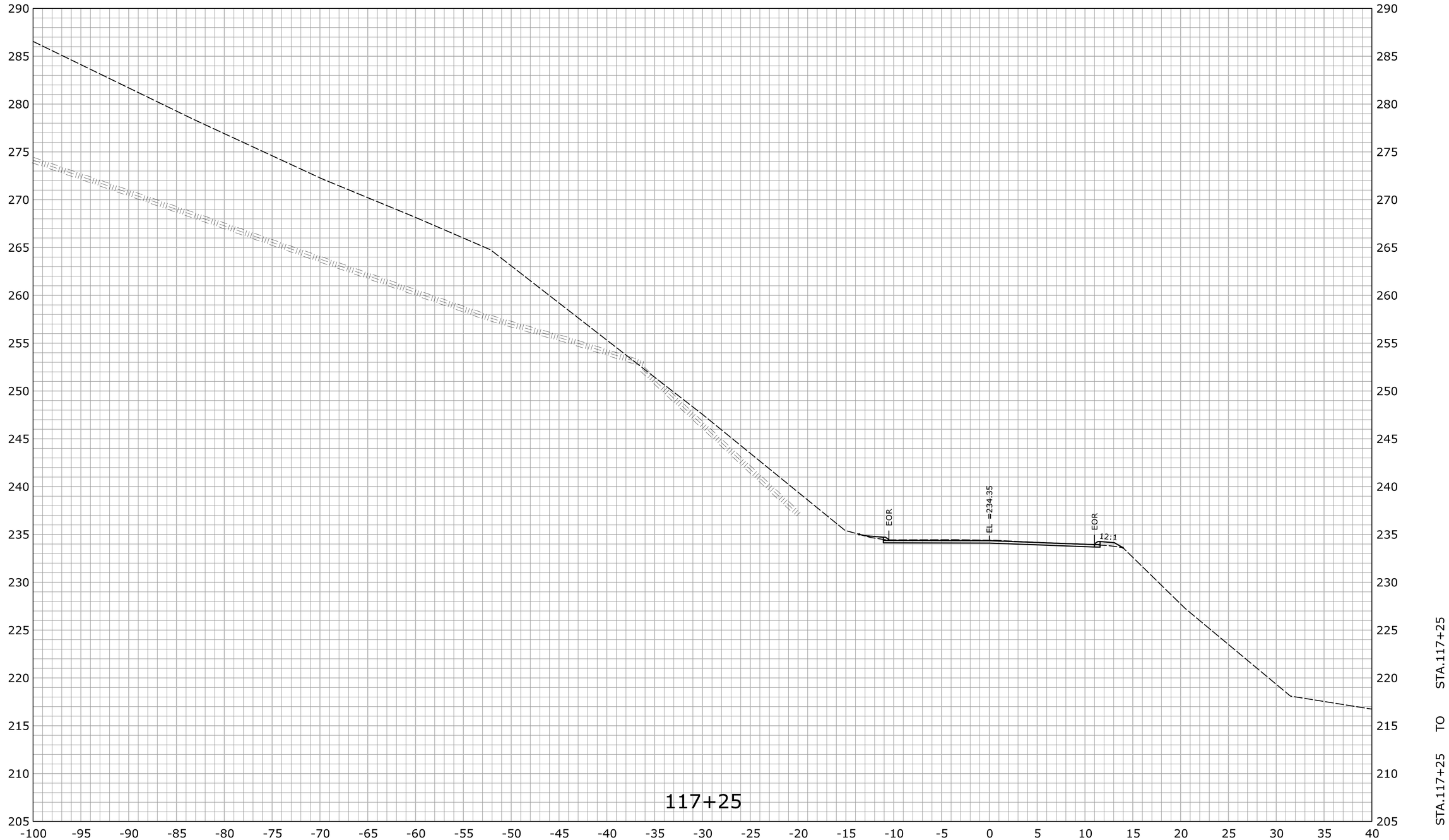
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-060**

SHEET NO. **03.107**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

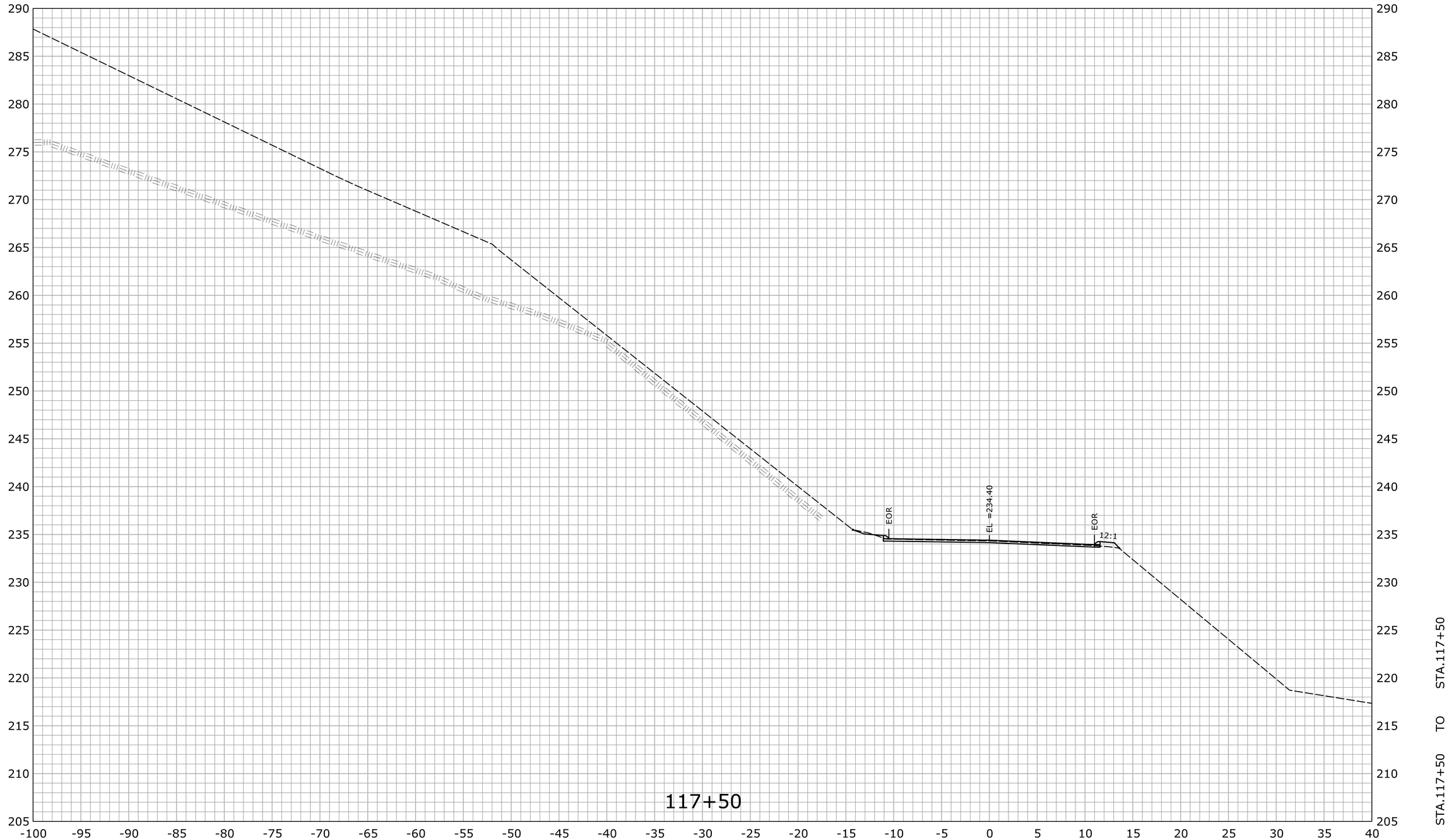
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-061**

SHEET NO. **03.108**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

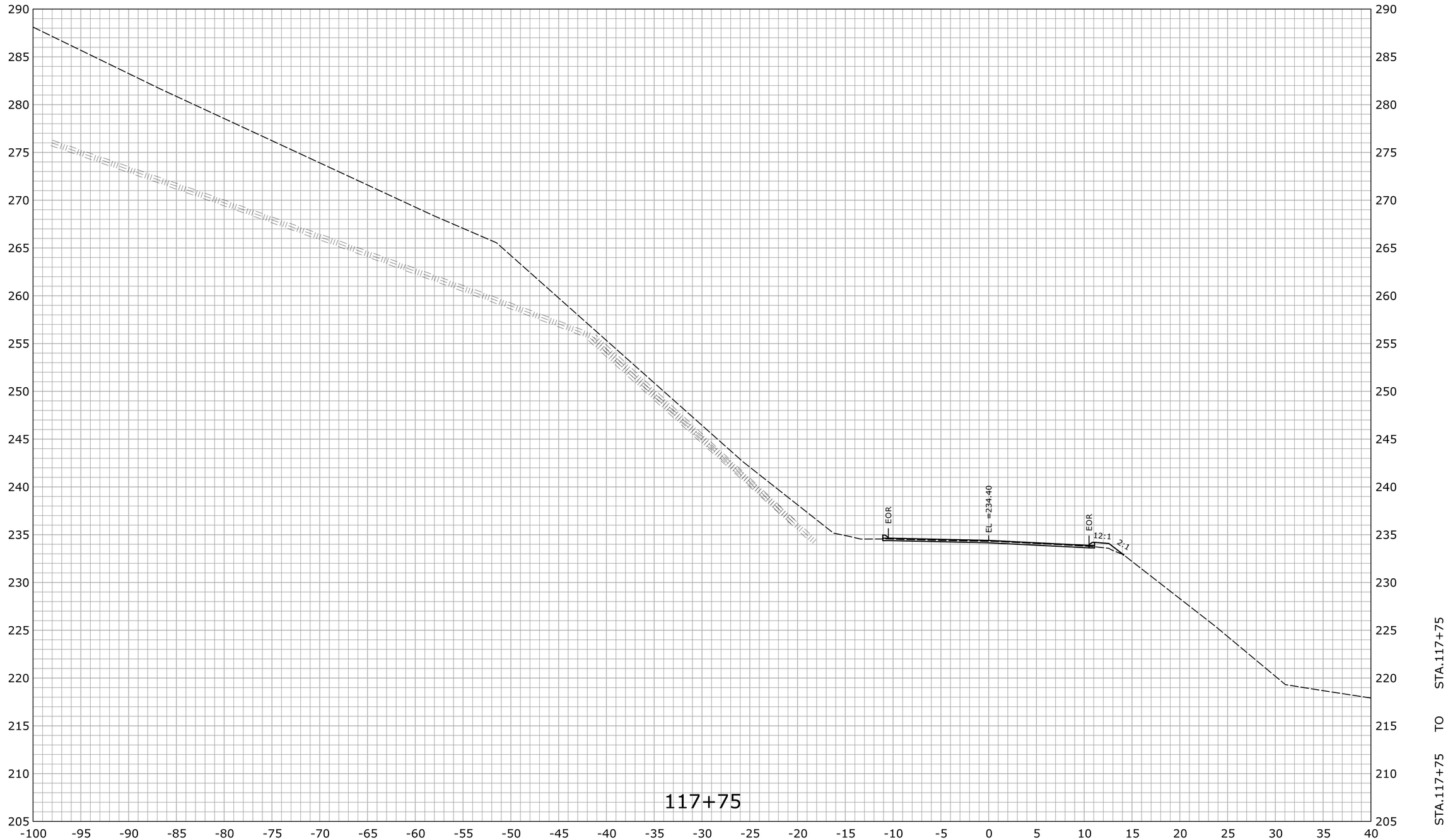
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-062**

SHEET NO. **03.109**



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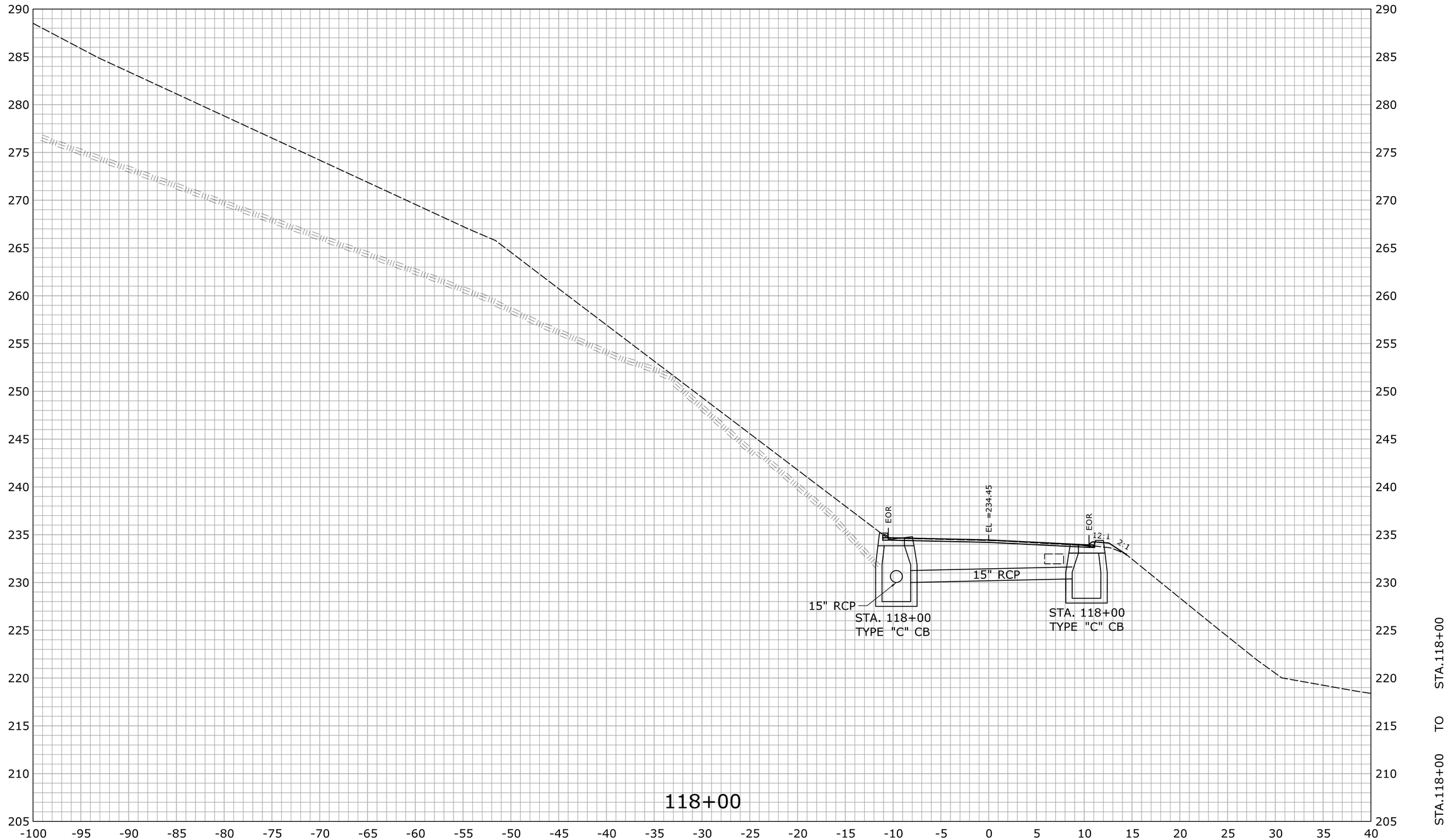
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**
DRAWING NO. **XSC-063**
SHEET NO. **03.110**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

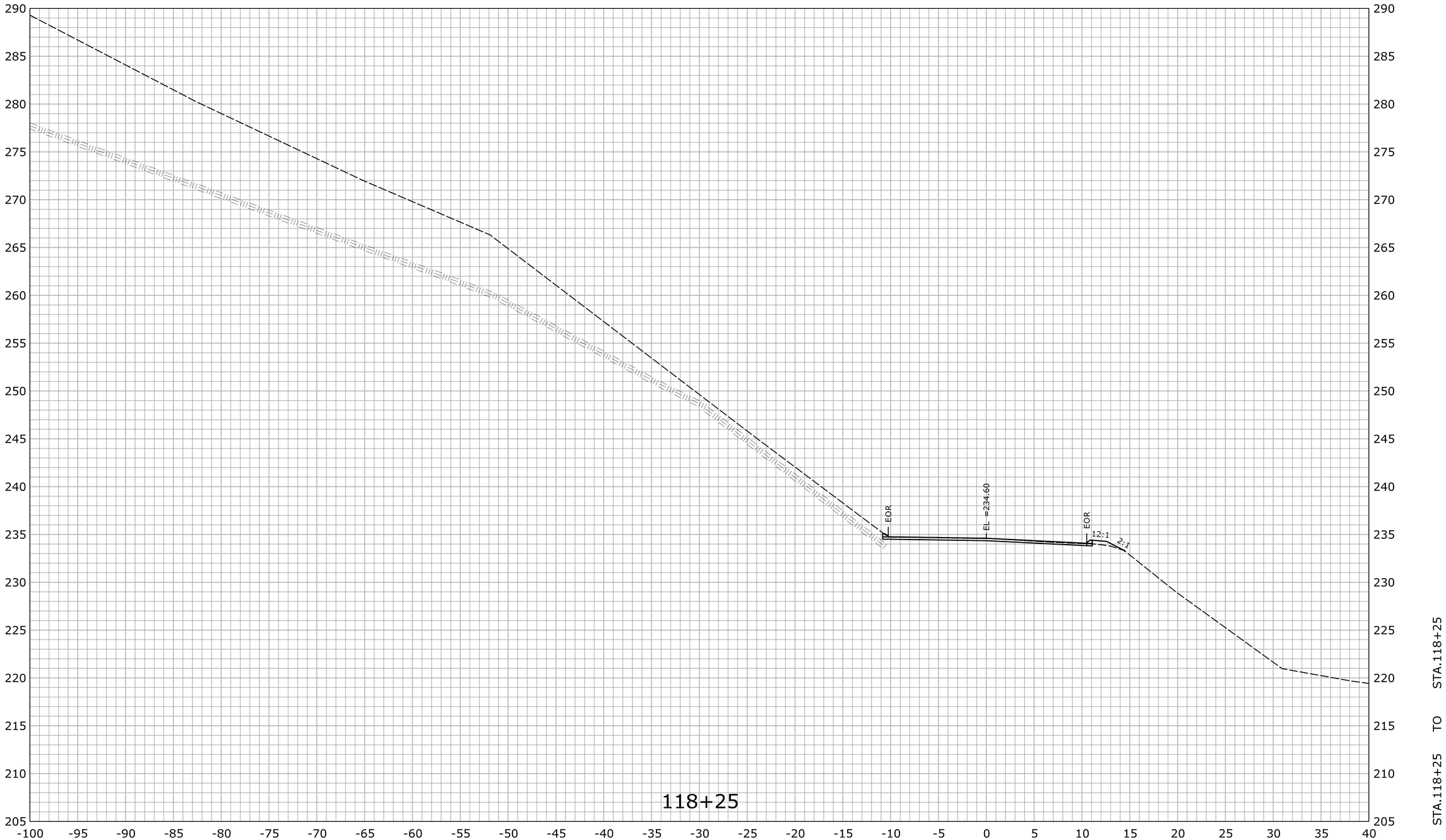
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-064**

SHEET NO. **03.111**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

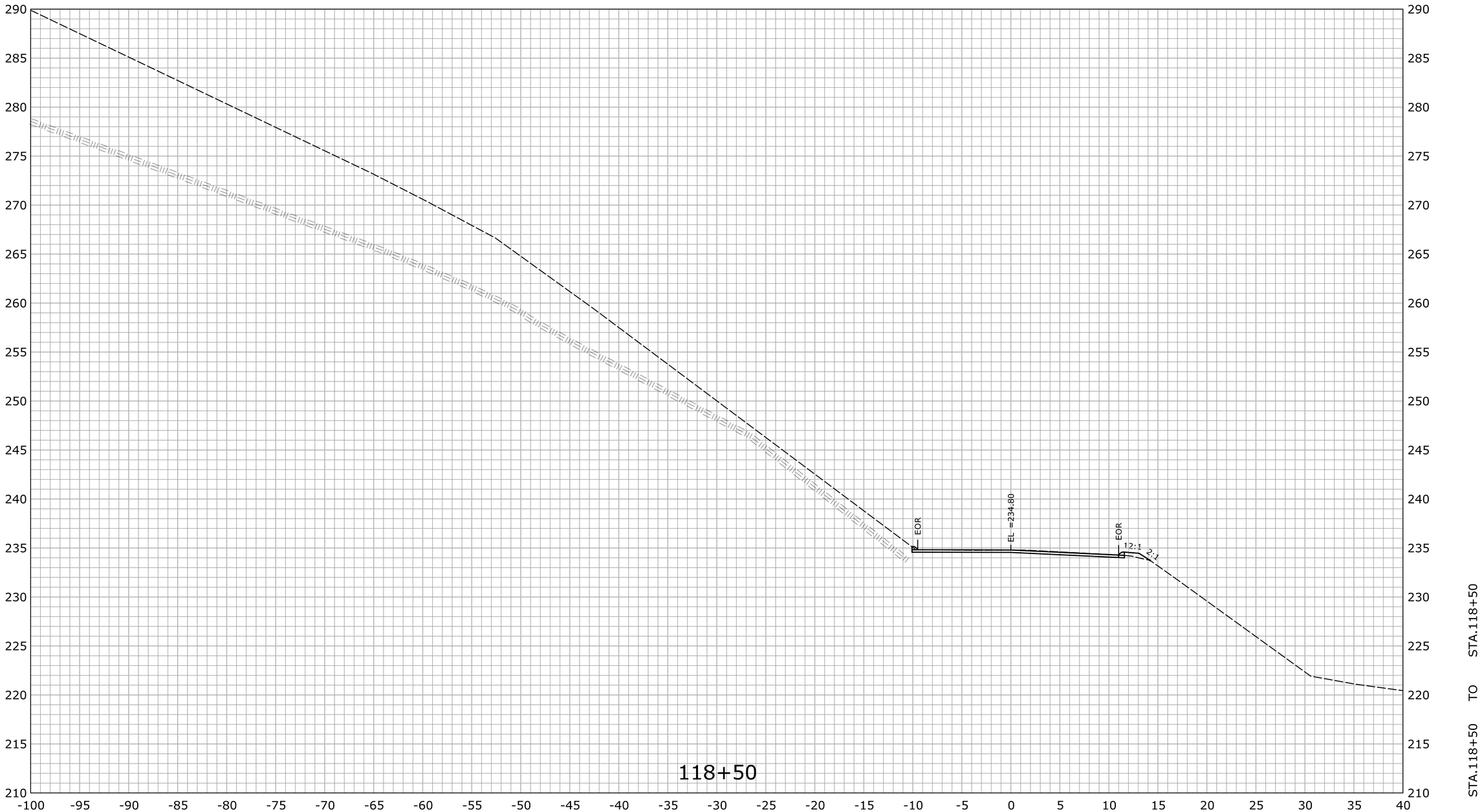
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-065**

SHEET NO. **03.112**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

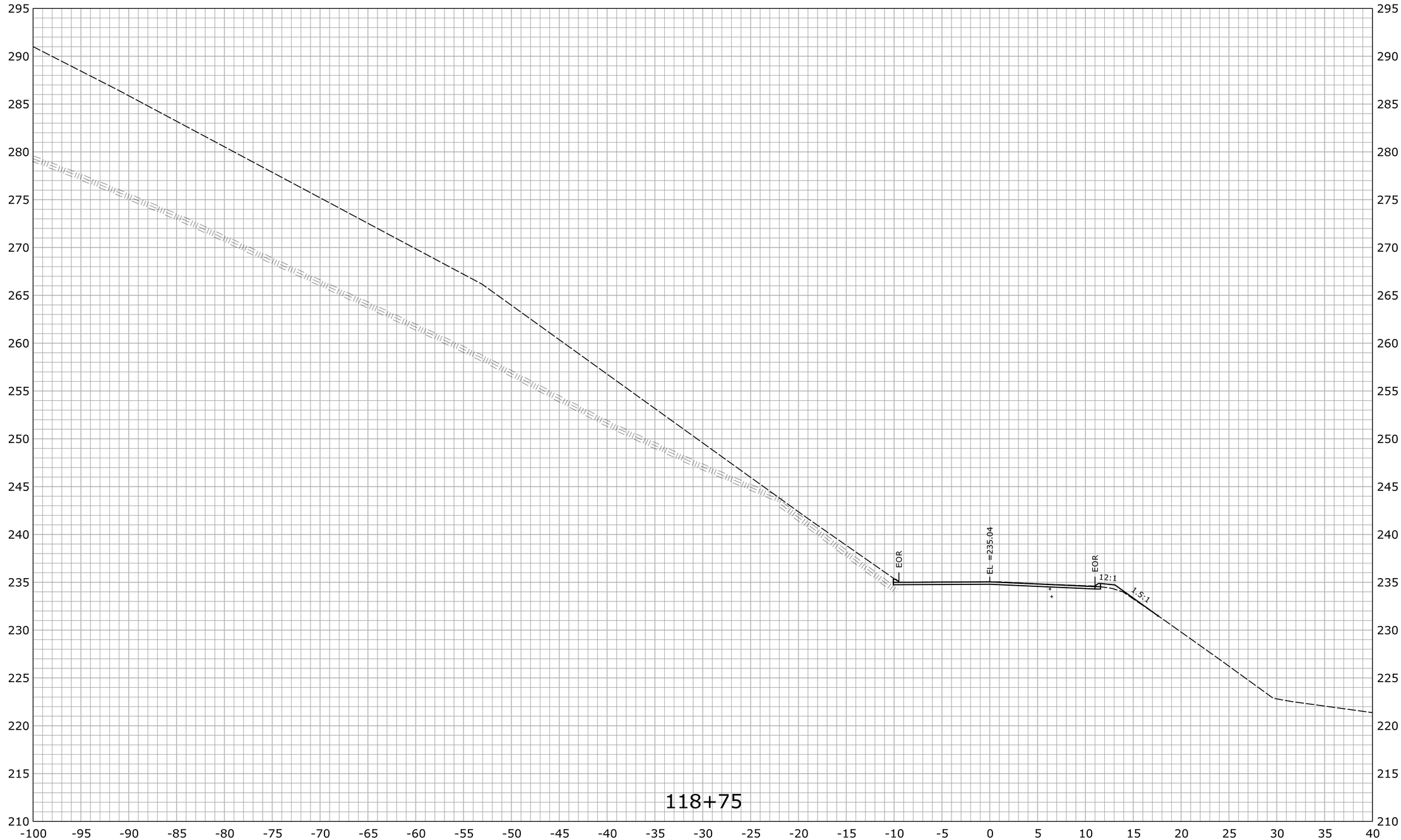
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-066**

SHEET NO. **03.113**



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SAFETY IMPROVEMENTS ON ROUTE 133

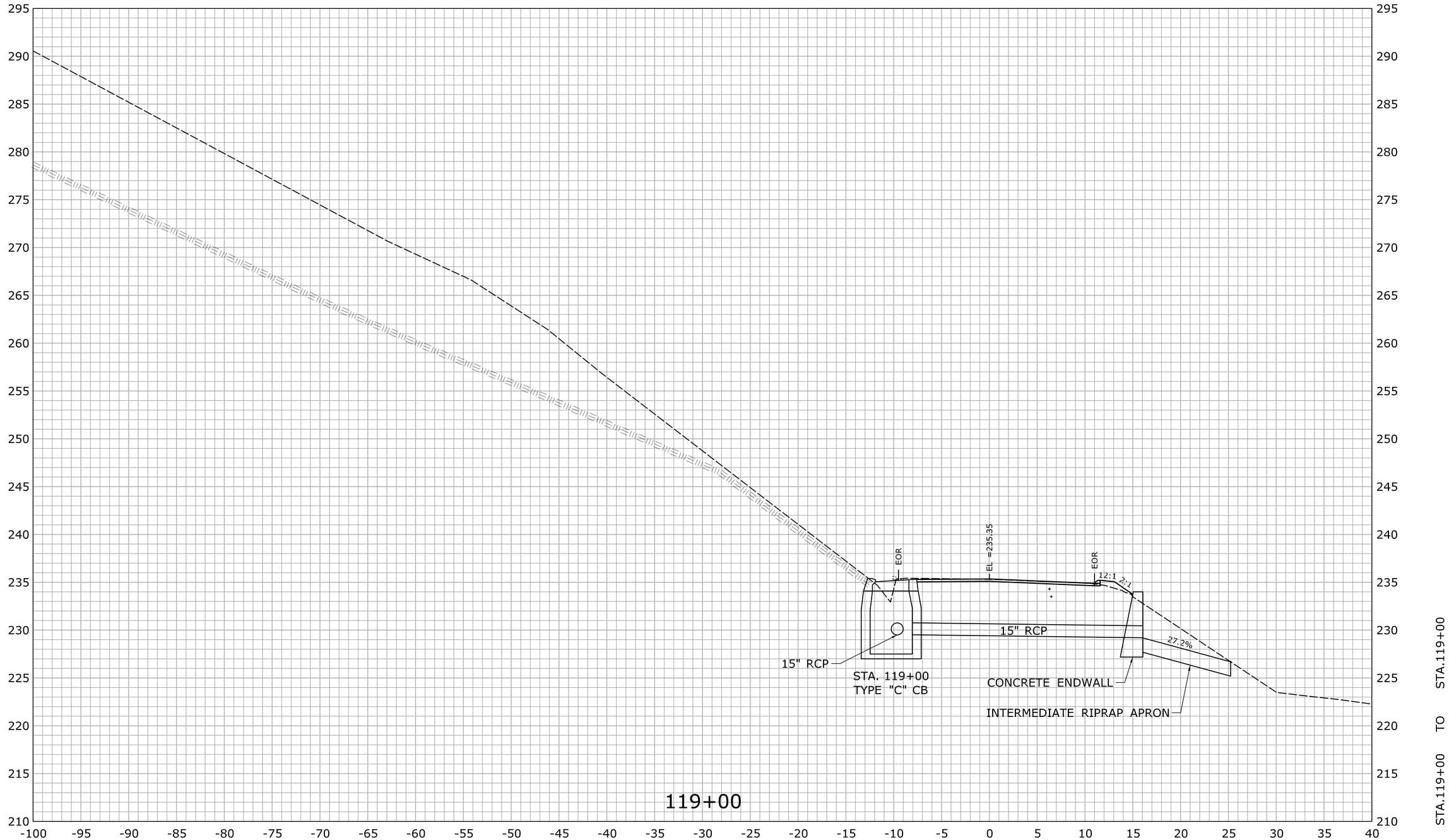
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-067**

SHEET NO. **03.114**



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SAFETY IMPROVEMENTS ON ROUTE 133

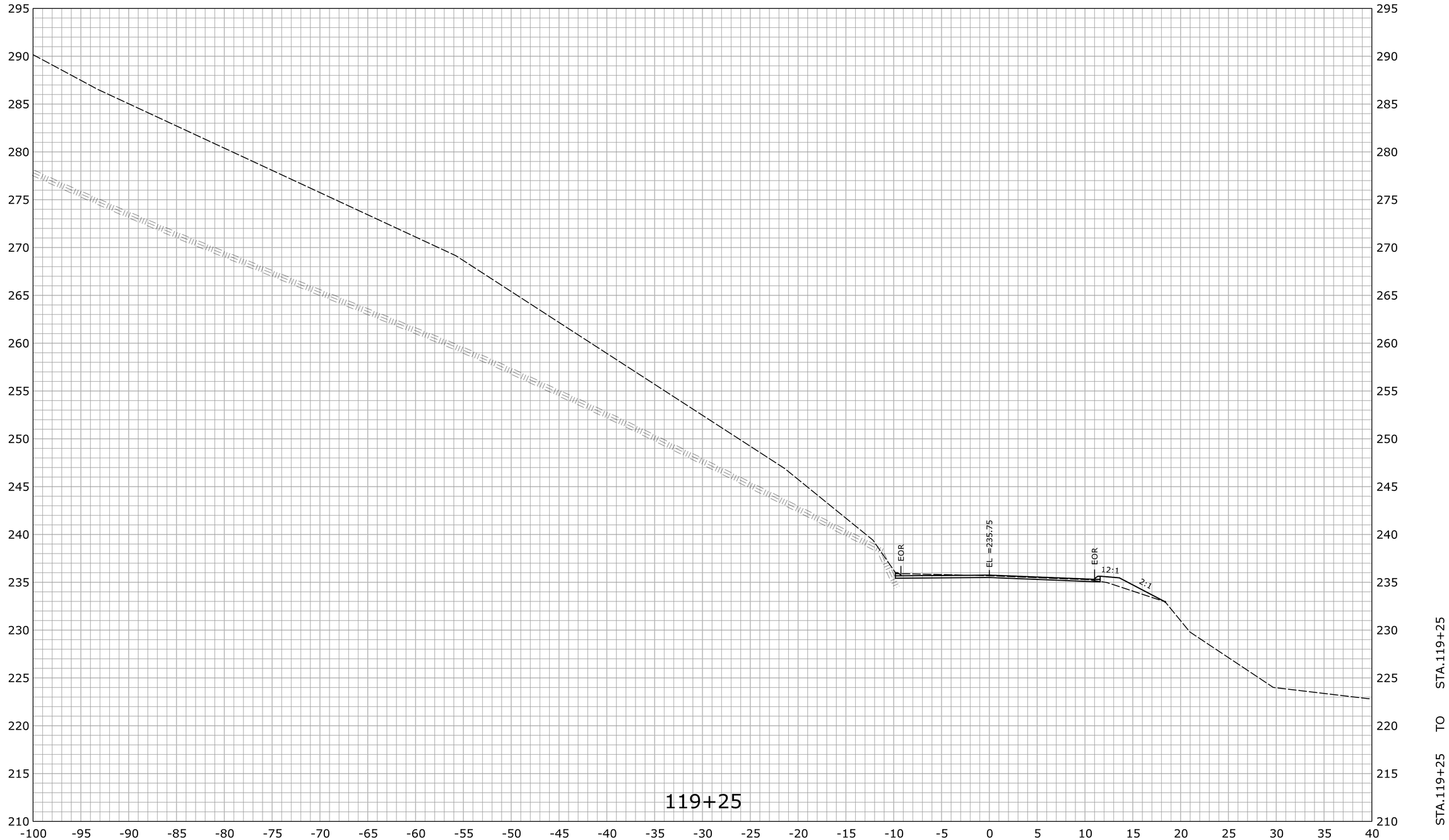
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-068**

SHEET NO. **03.115**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

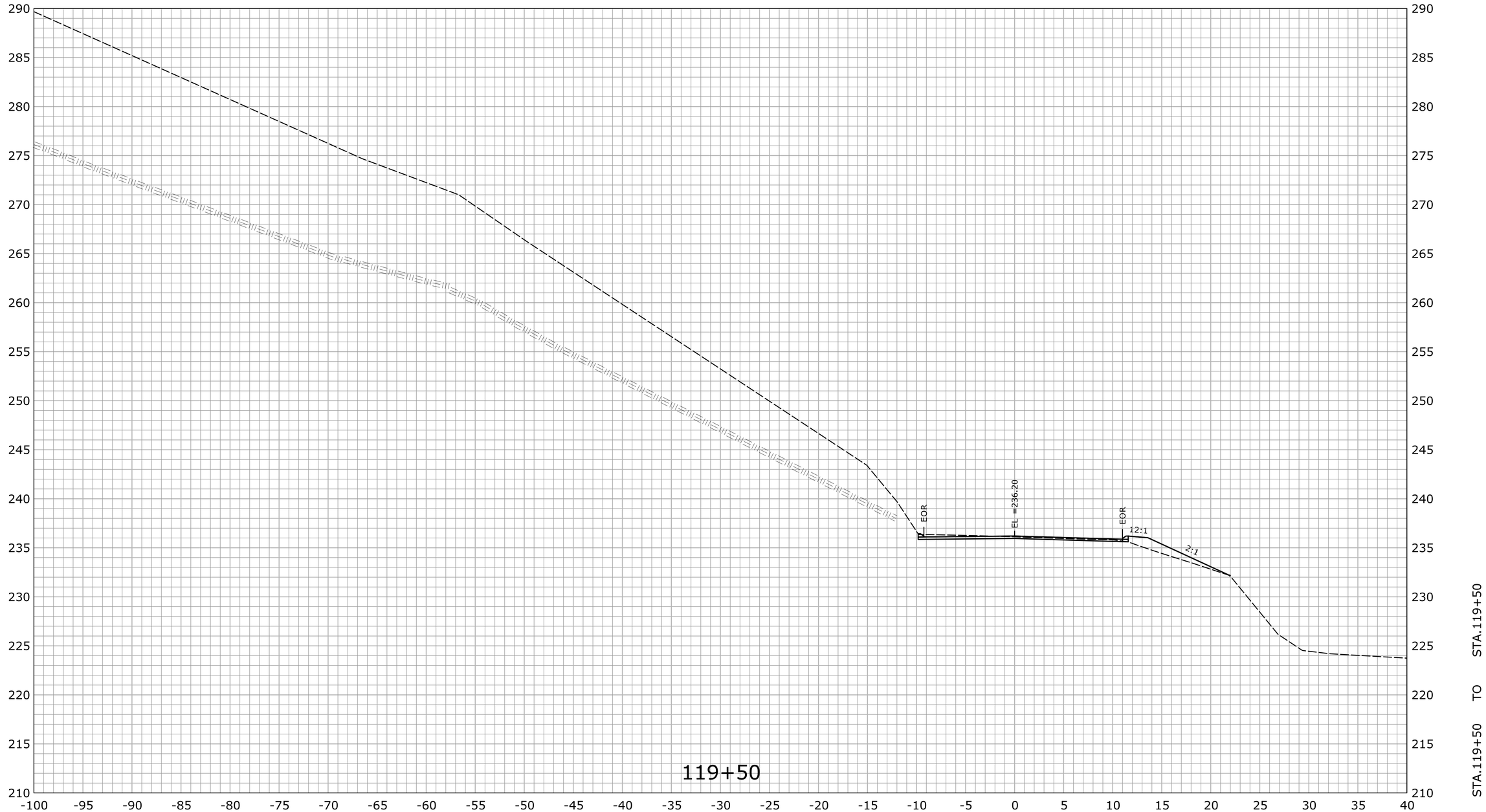
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-069**

SHEET NO. **03.116**



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SAFETY IMPROVEMENTS ON ROUTE 133

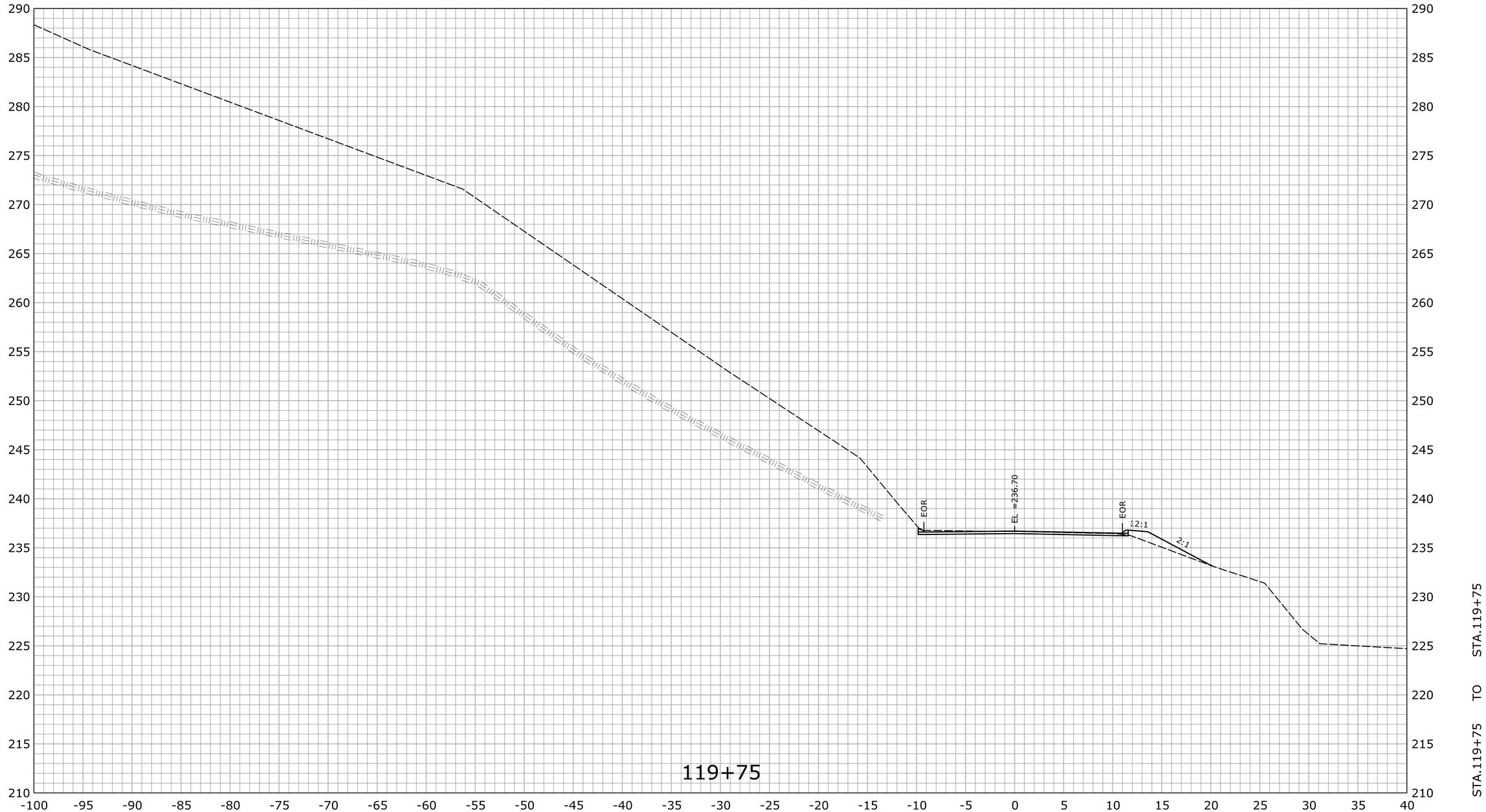
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-070**

SHEET NO. **03.117**



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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

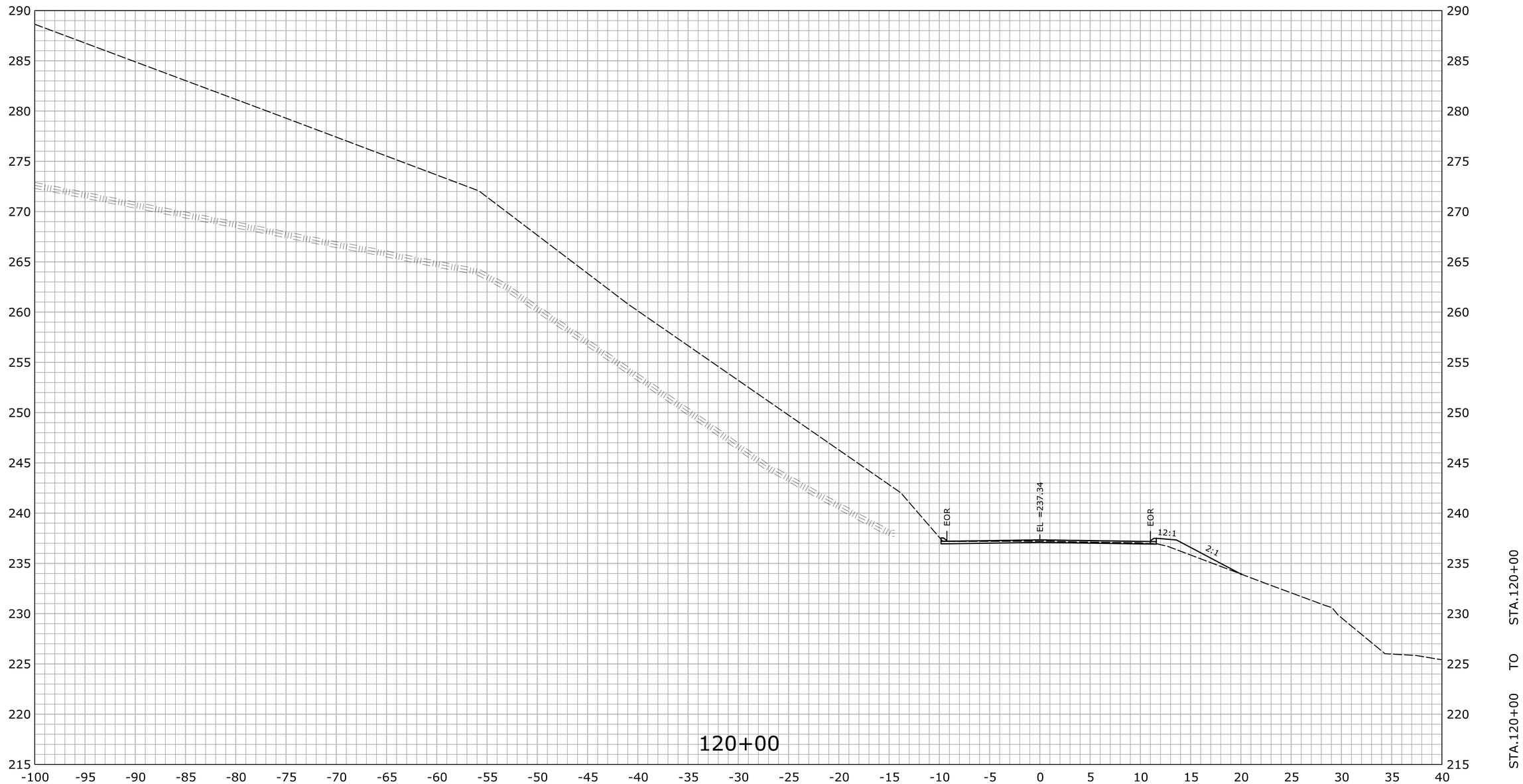
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-071**

SHEET NO. **03.118**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

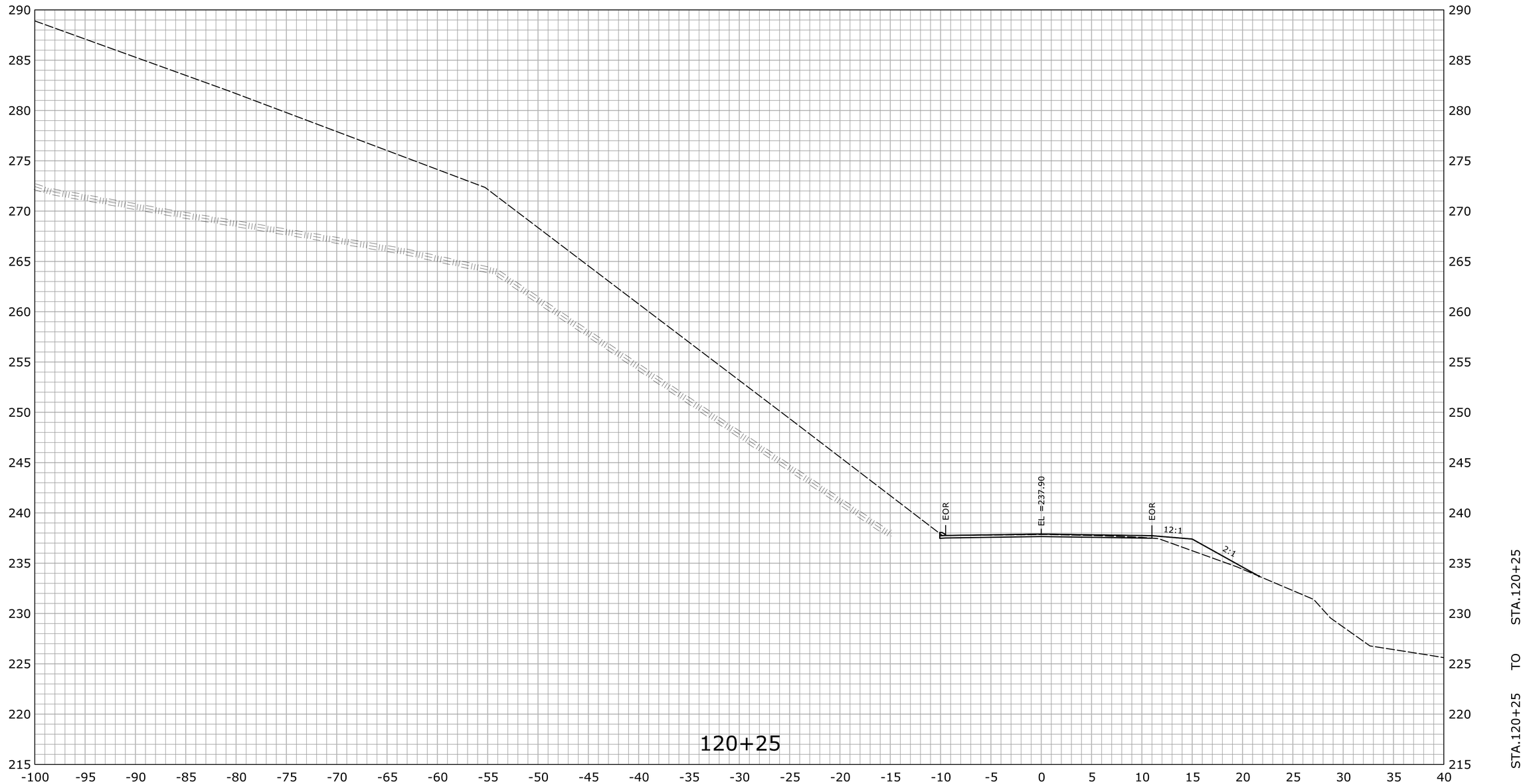
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-072**

SHEET NO. **03.119**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

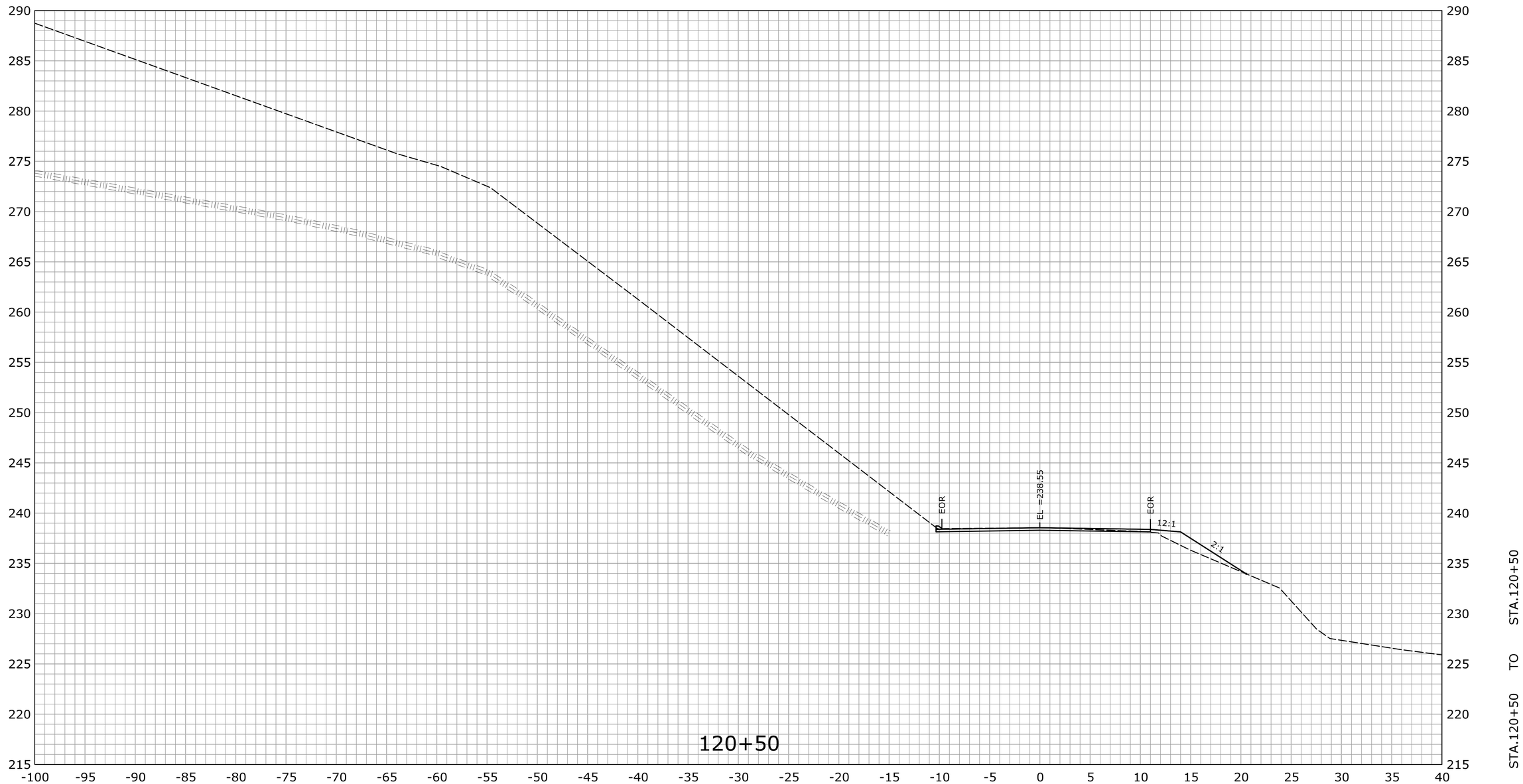
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-073**

SHEET NO. **03.120**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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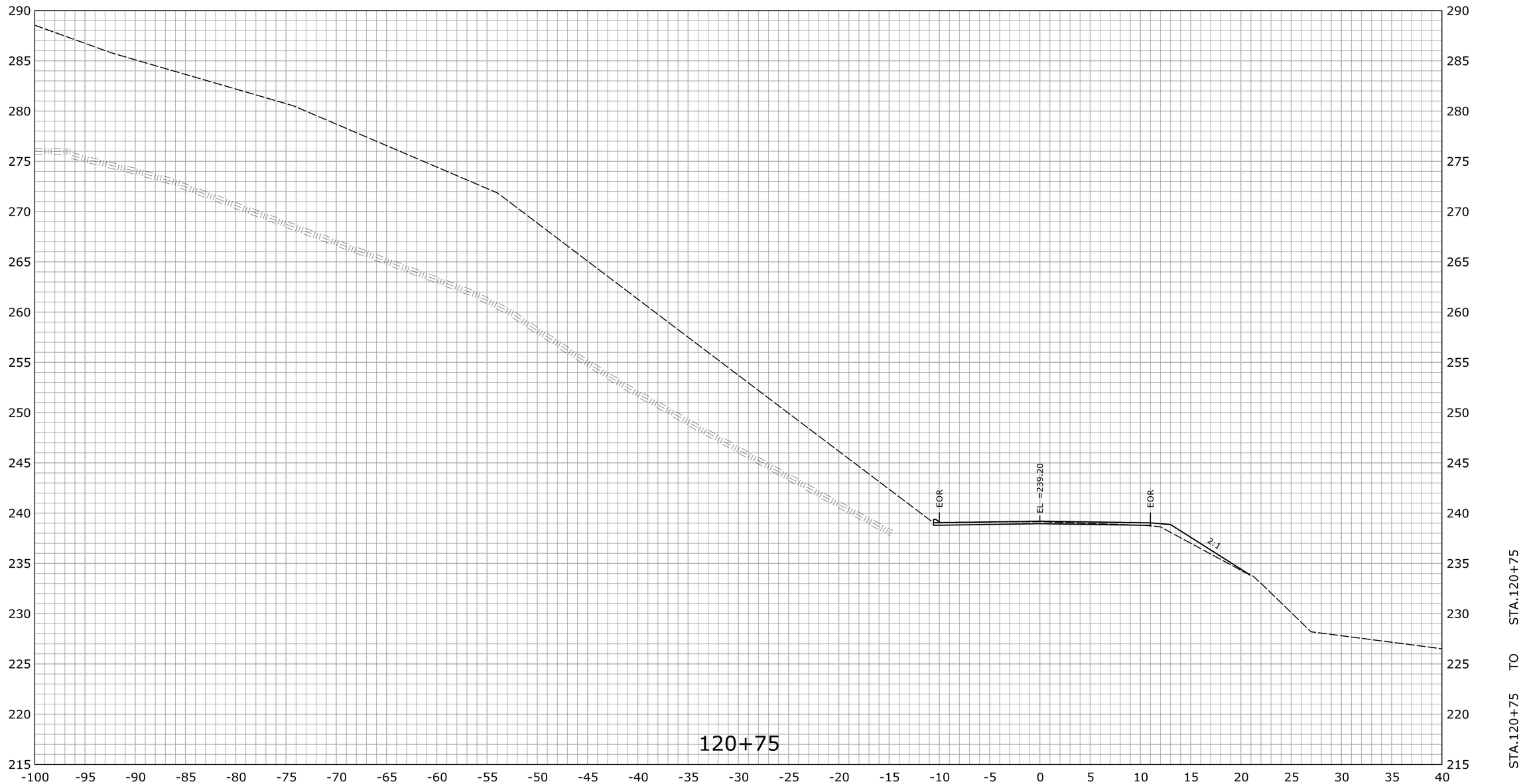
PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**
DRAWING NO. **XSC-074**
SHEET NO. **03.121**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

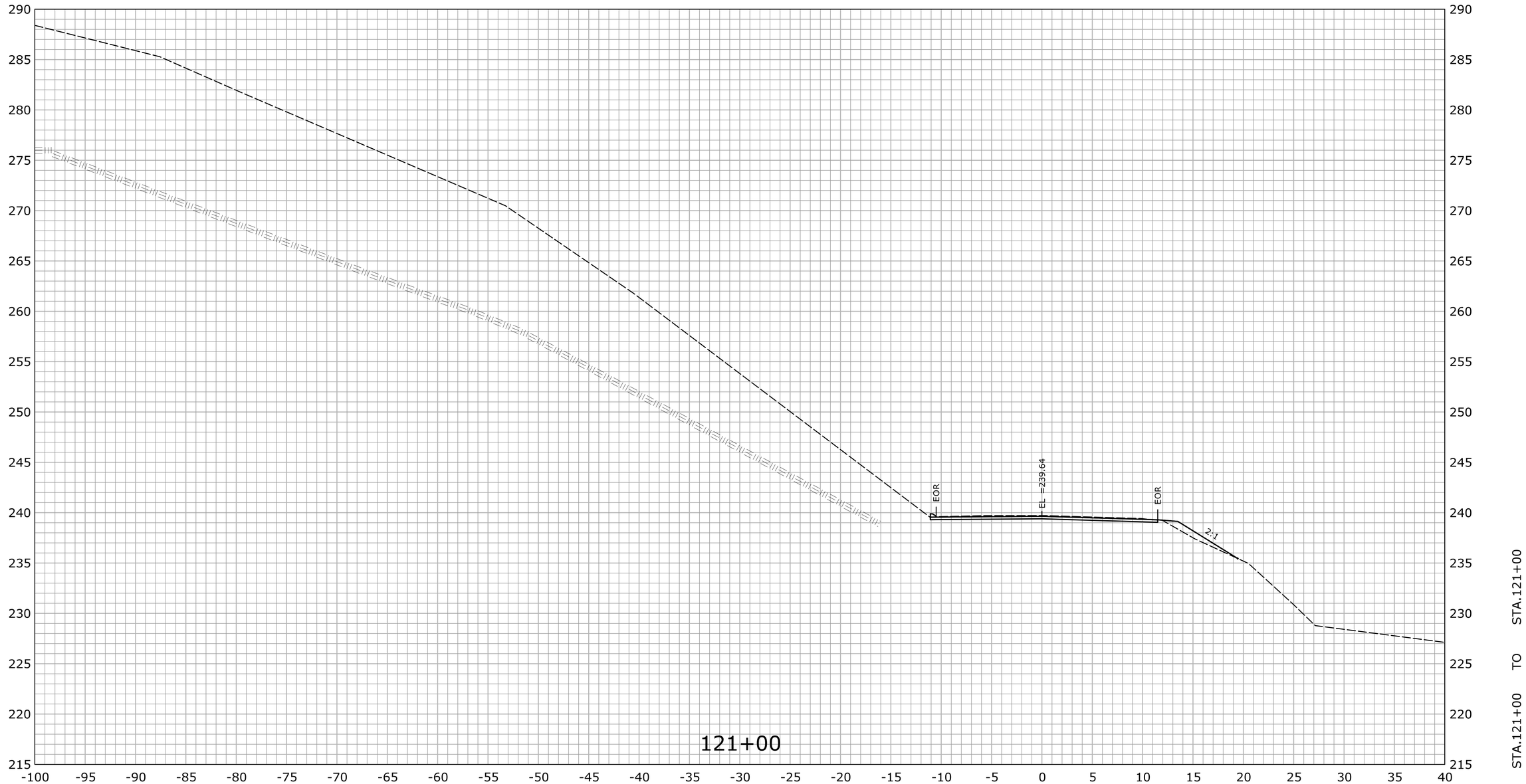
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-075**

SHEET NO. **03.122**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

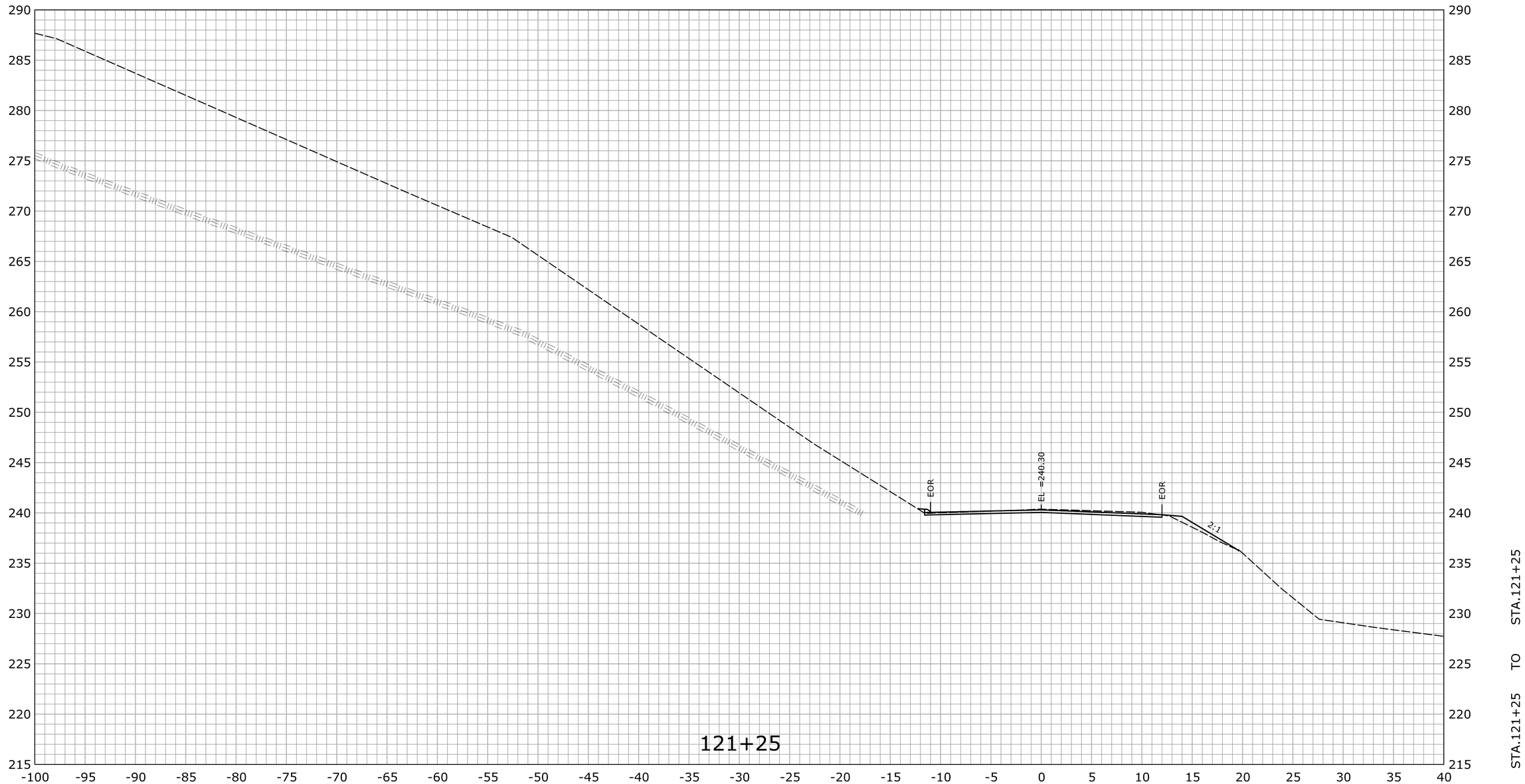
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-076**

SHEET NO. **03.123**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

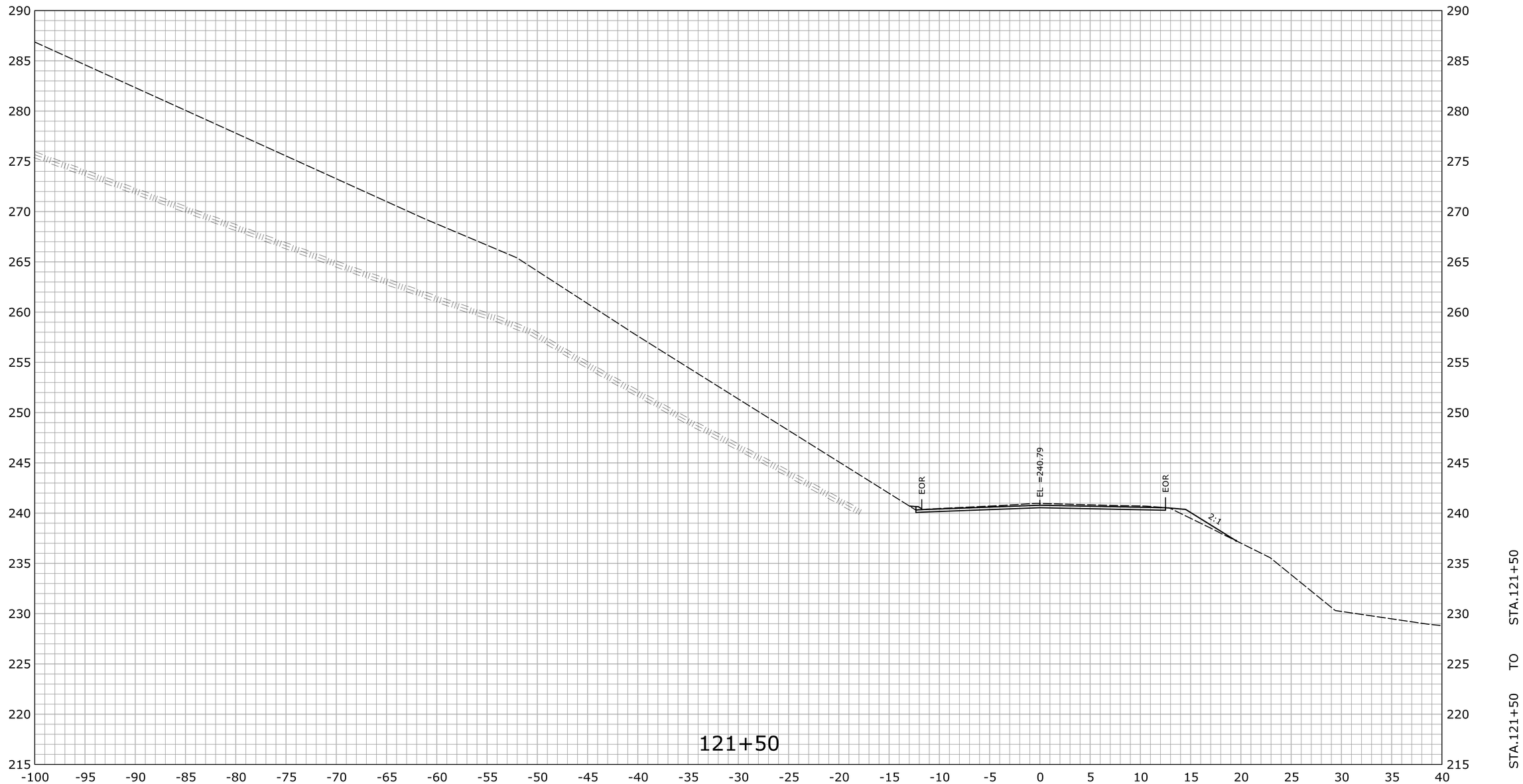
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-077**

SHEET NO. **03.124**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

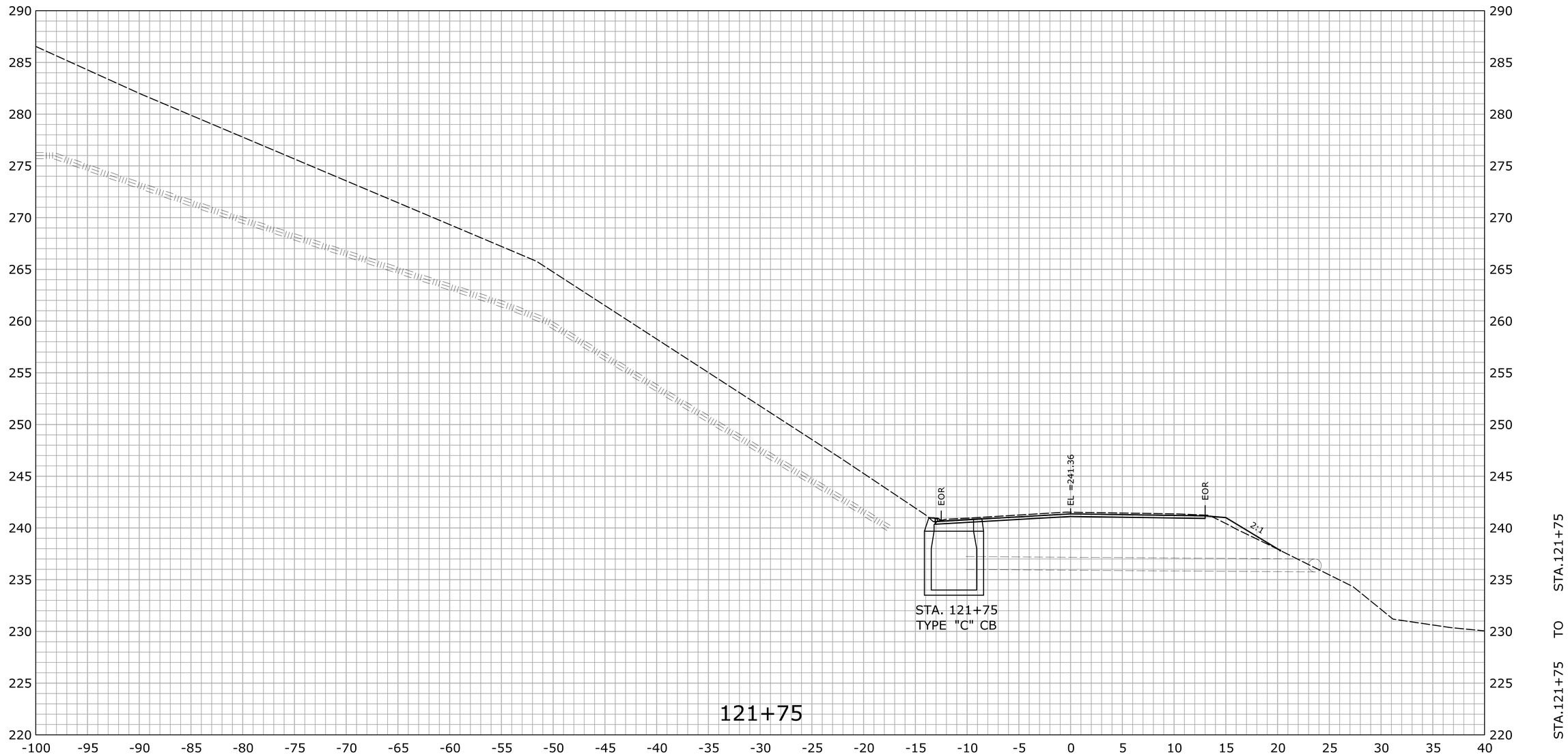
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-078**

SHEET NO. **03.125**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

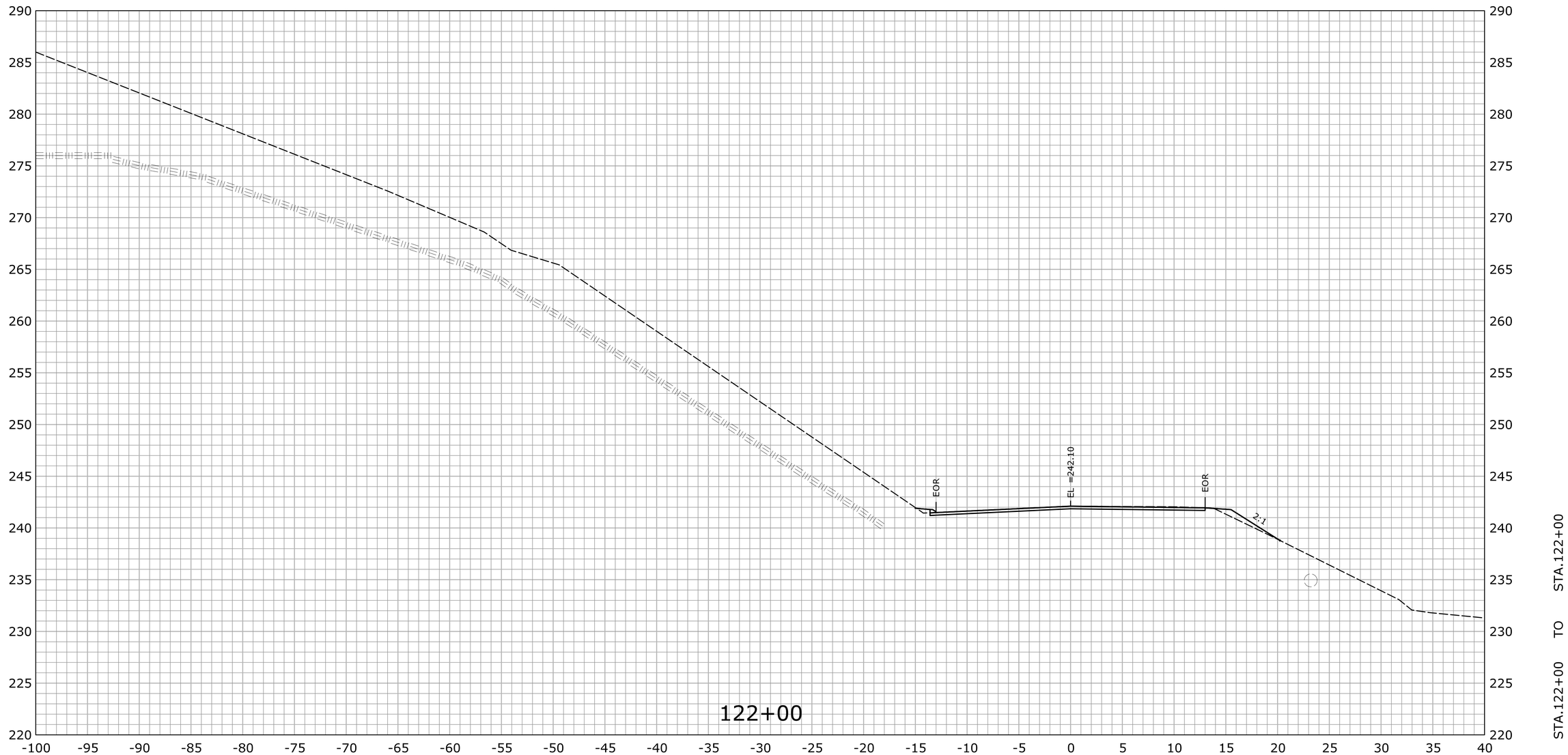
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-079**

SHEET NO. **03.126**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

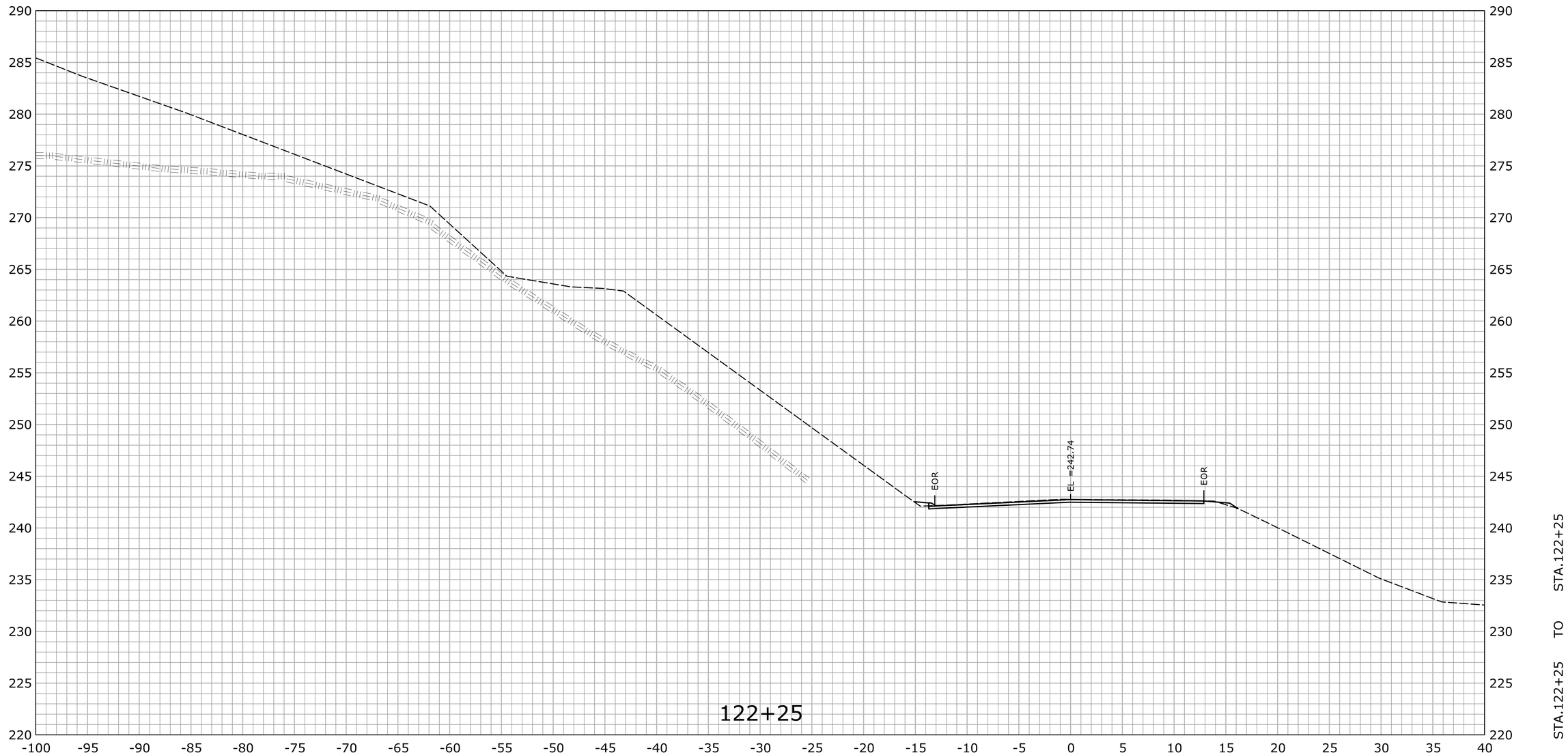
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-080**

SHEET NO. **03.127**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET 0 5 10

SCALE 1" = 5'

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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

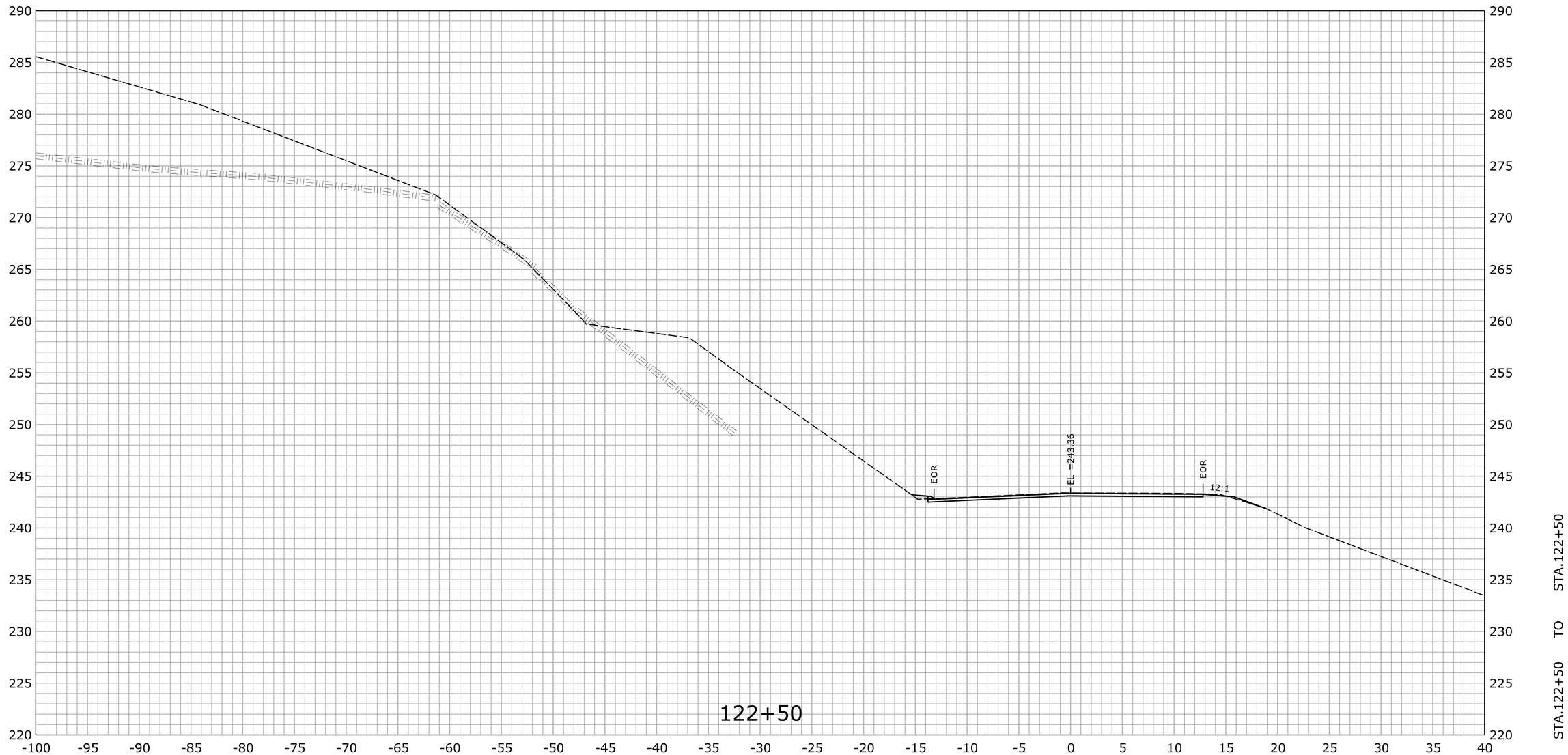
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-081**

SHEET NO. **03.128**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

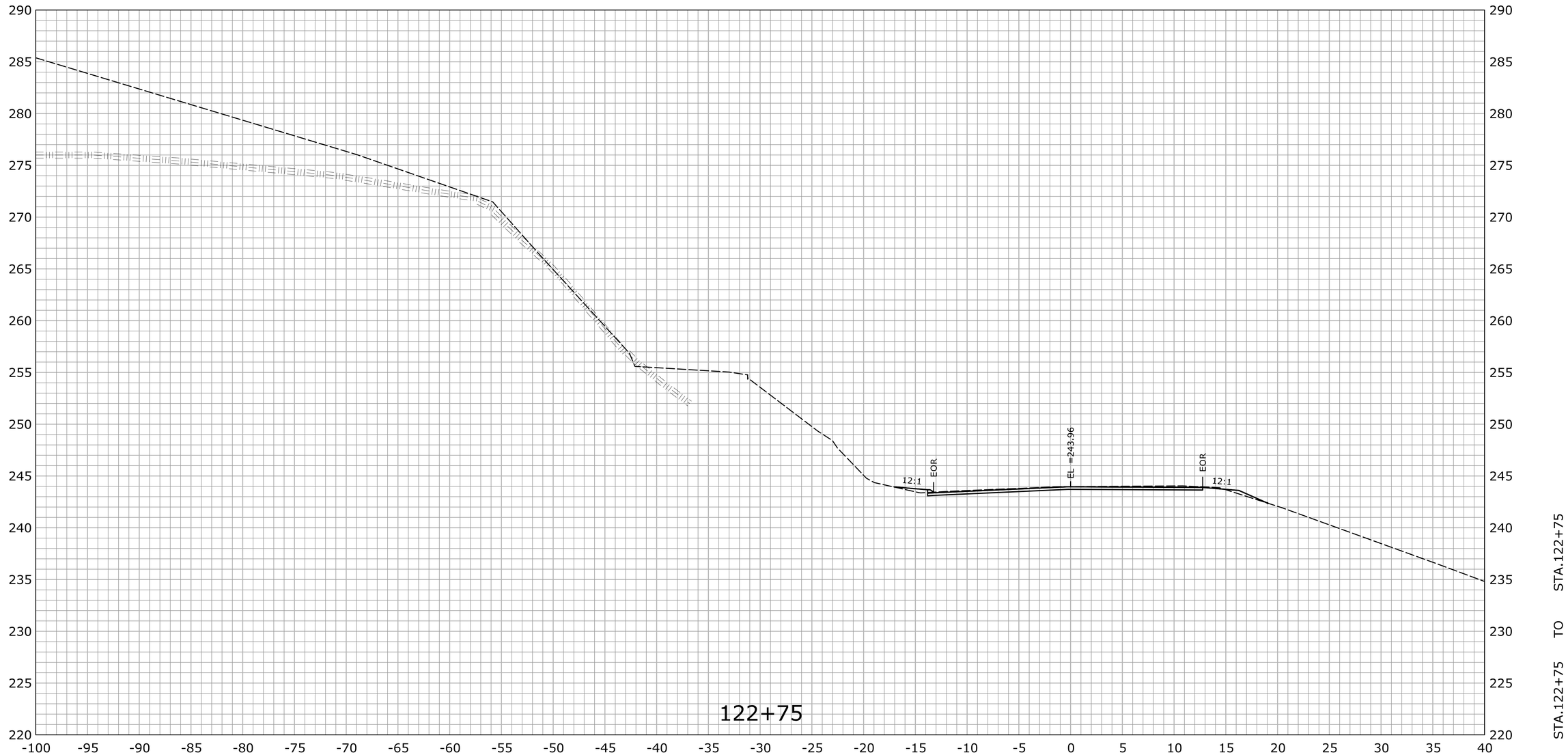
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-082**

SHEET NO. **03.129**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

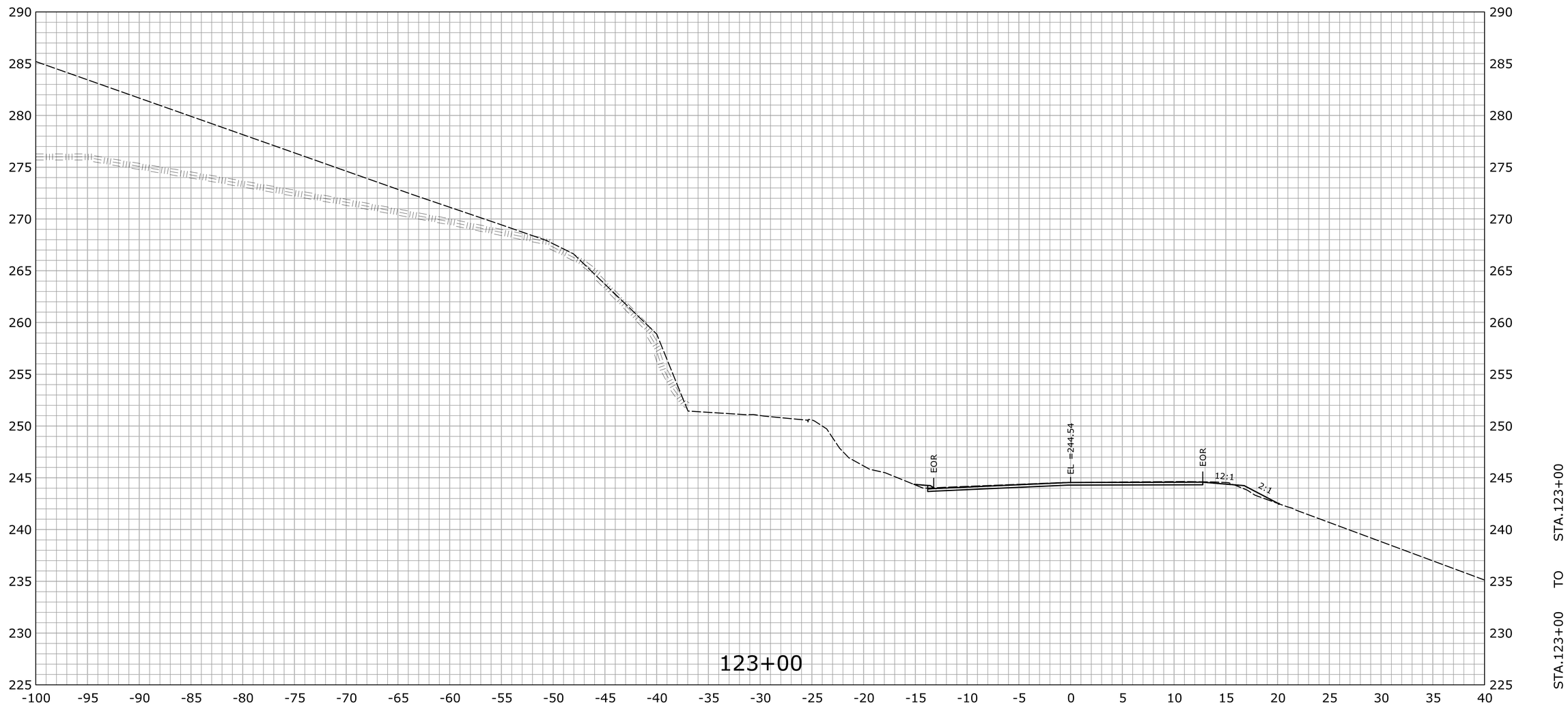
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-083**

SHEET NO. **03.130**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-084**

SHEET NO. **03.131**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

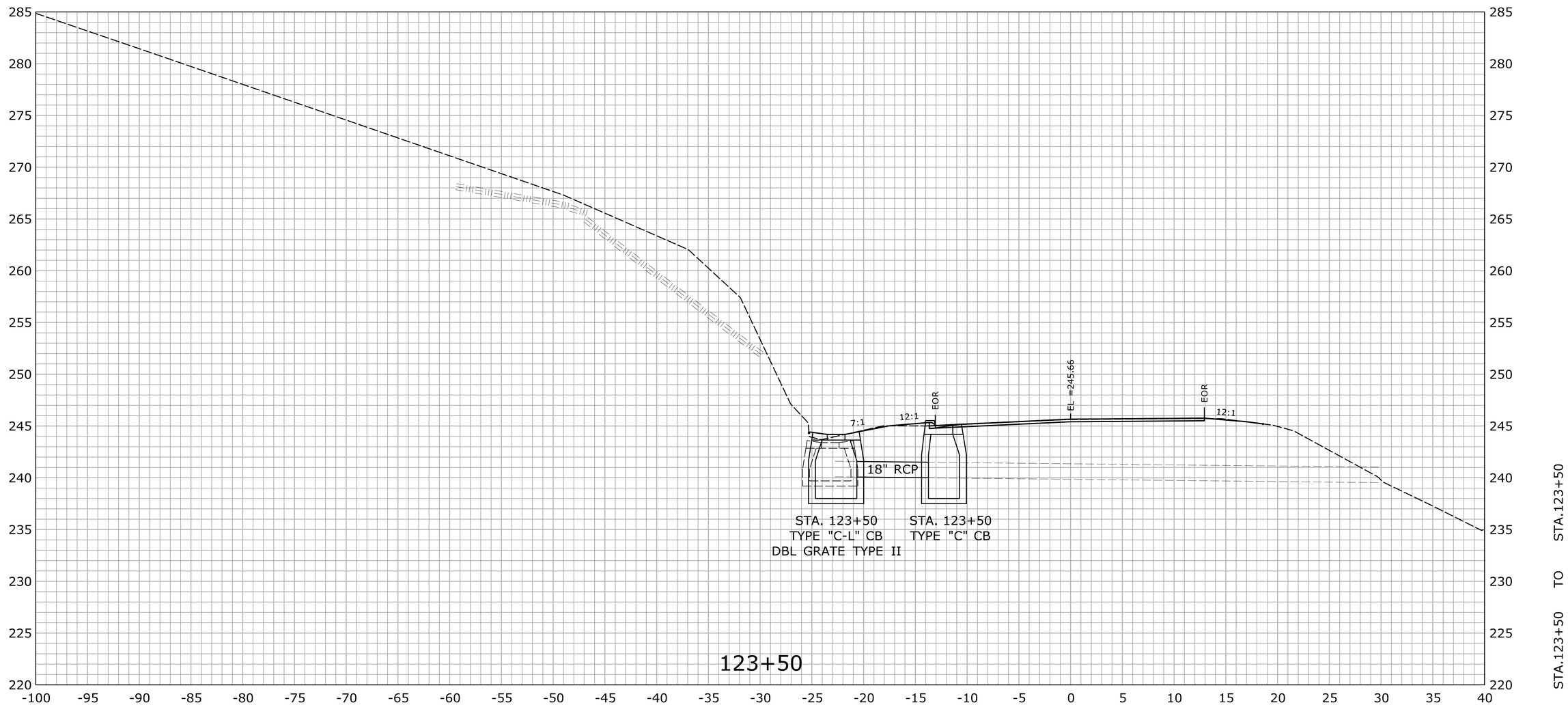
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-085**

SHEET NO. **03.132**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

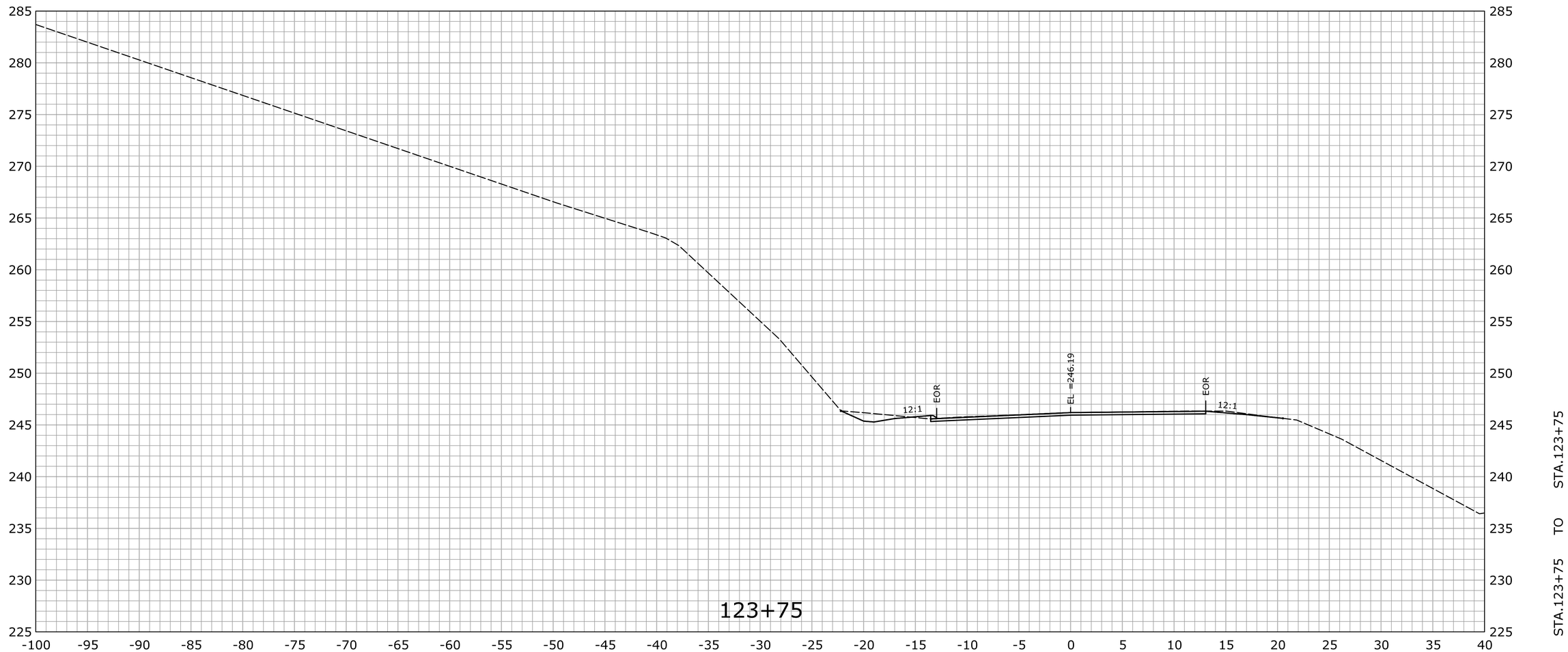
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-086**

SHEET NO. **03.133**



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SAFETY IMPROVEMENTS ON ROUTE 133

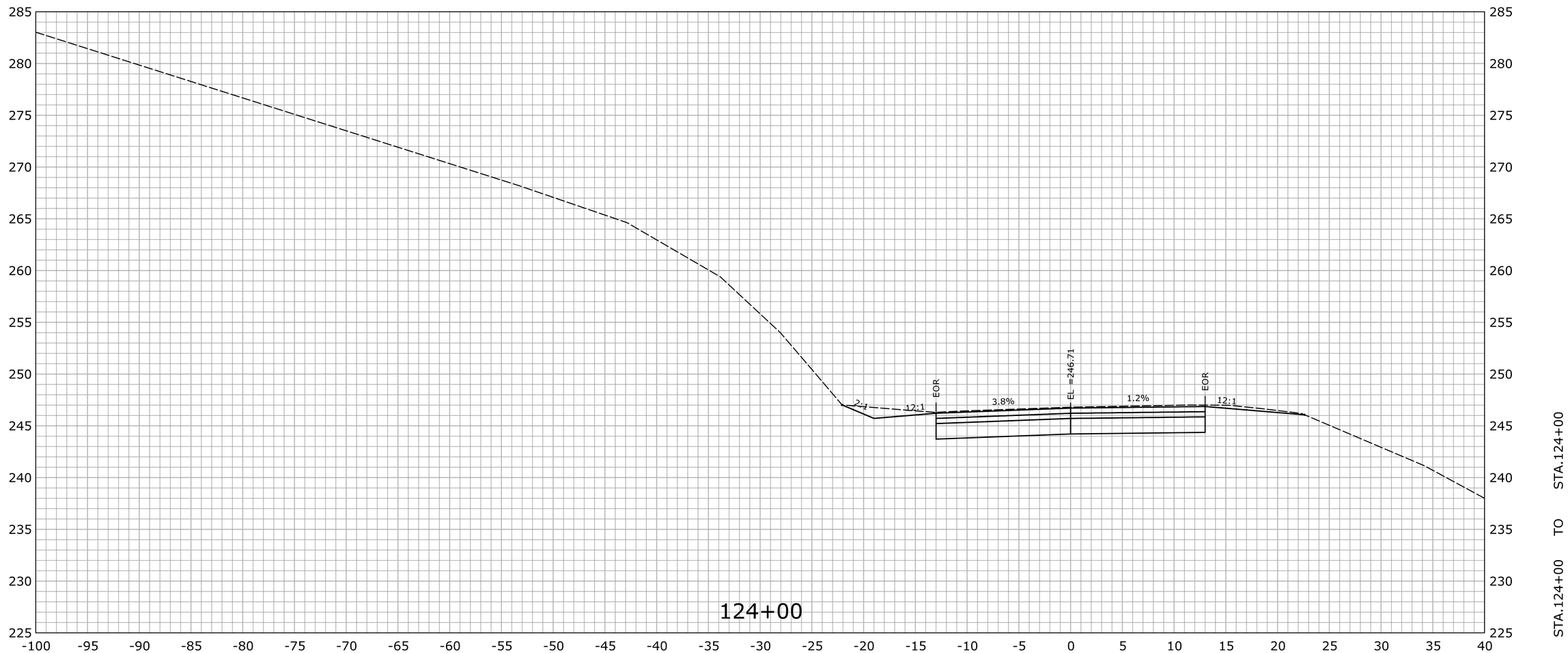
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-087**

SHEET NO. **03.134**



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CHECKED BY: **JDP**

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

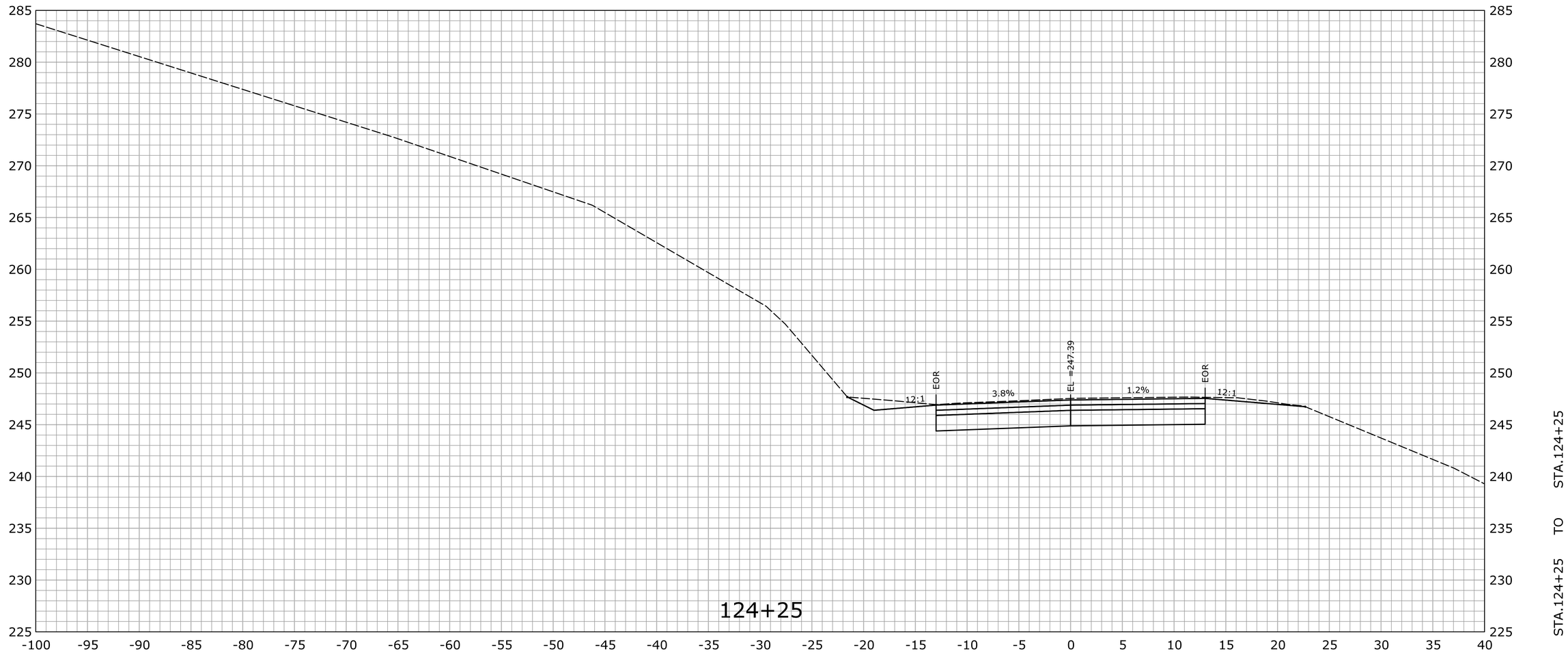
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-088**

SHEET NO. **03.135**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

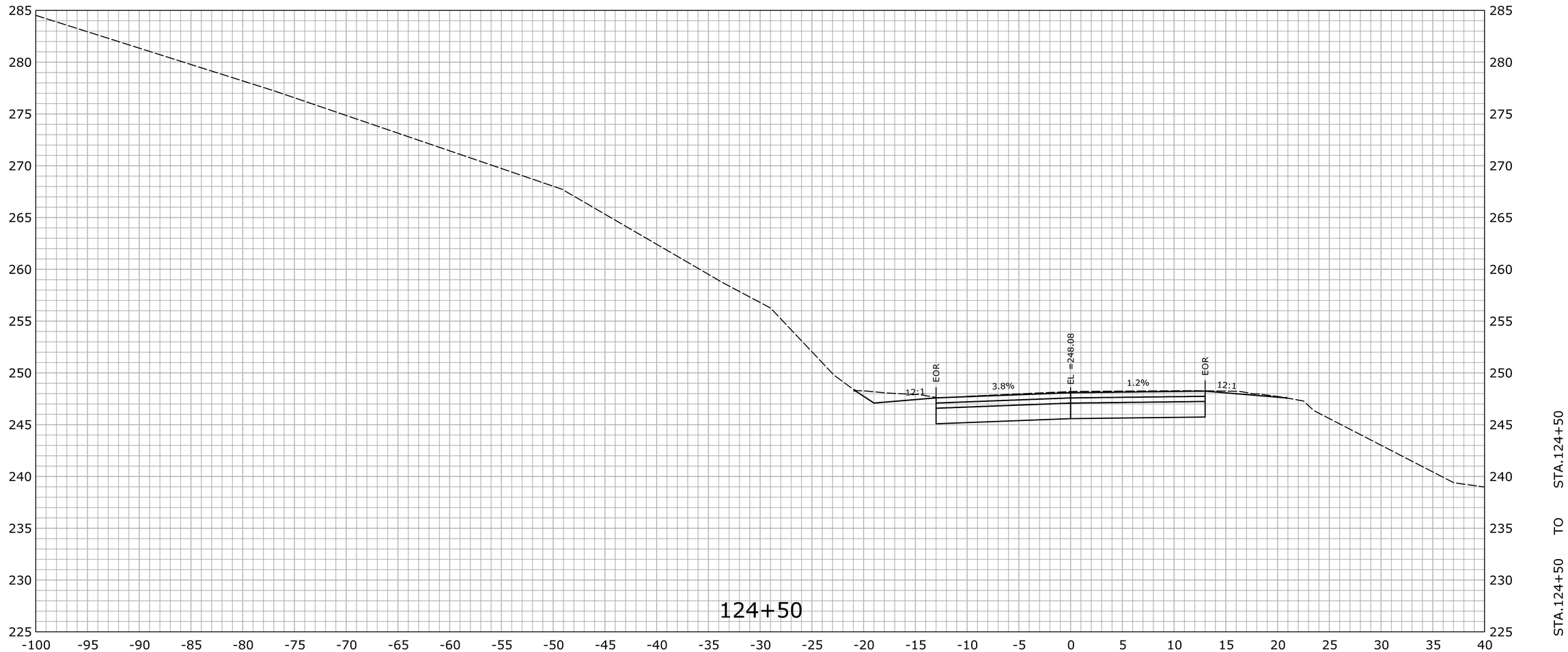
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-089**

SHEET NO. **03.136**



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SAFETY IMPROVEMENTS ON ROUTE 133

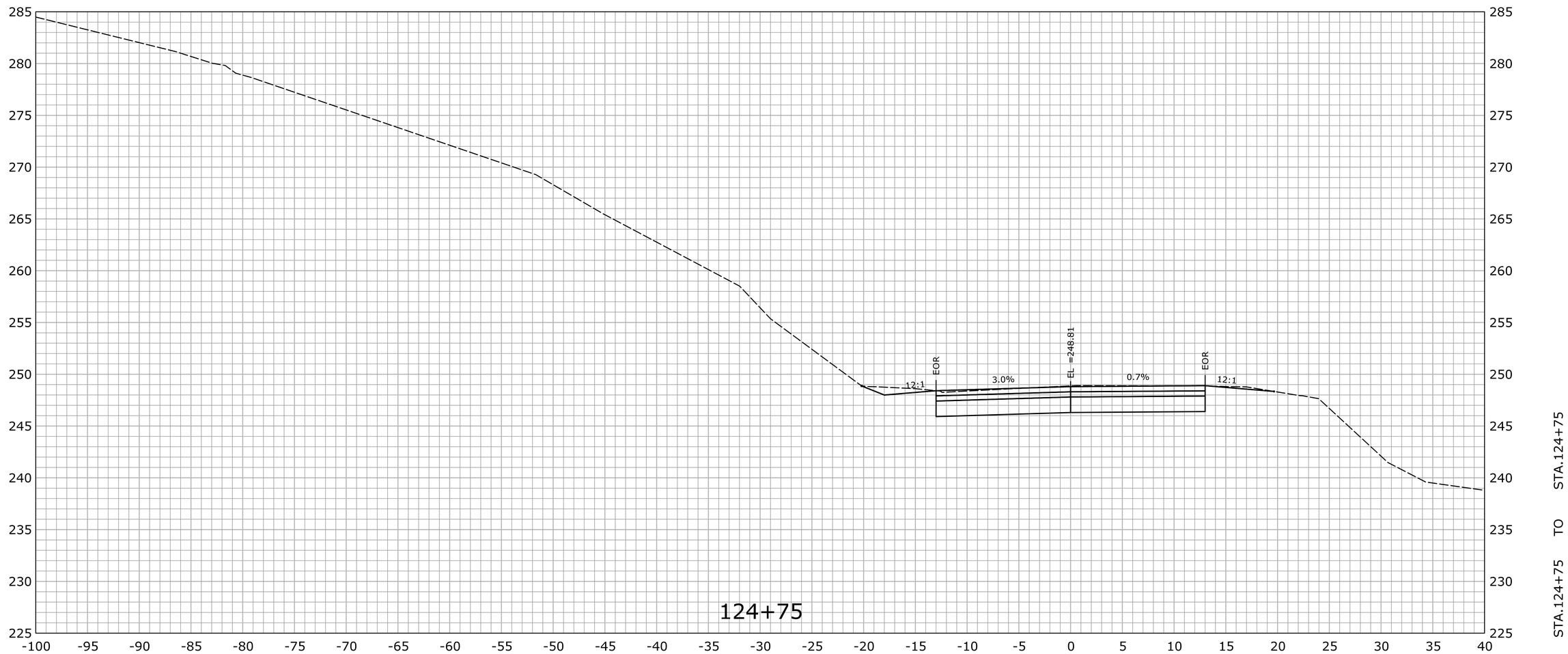
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-090**

SHEET NO. **03.137**



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SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-091**

SHEET NO. **03.138**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-092**

SHEET NO. **03.139**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

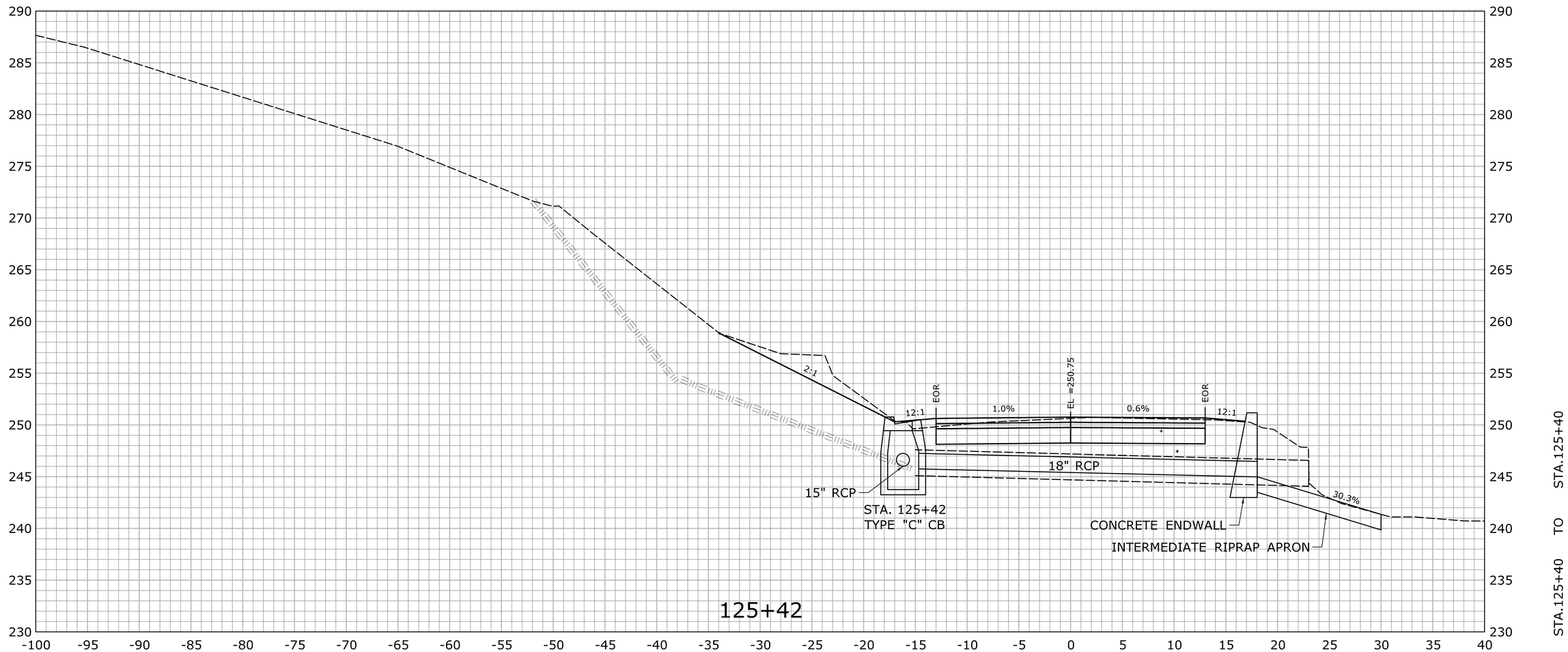
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-093**

SHEET NO. **03.140**



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SAFETY IMPROVEMENTS ON ROUTE 133

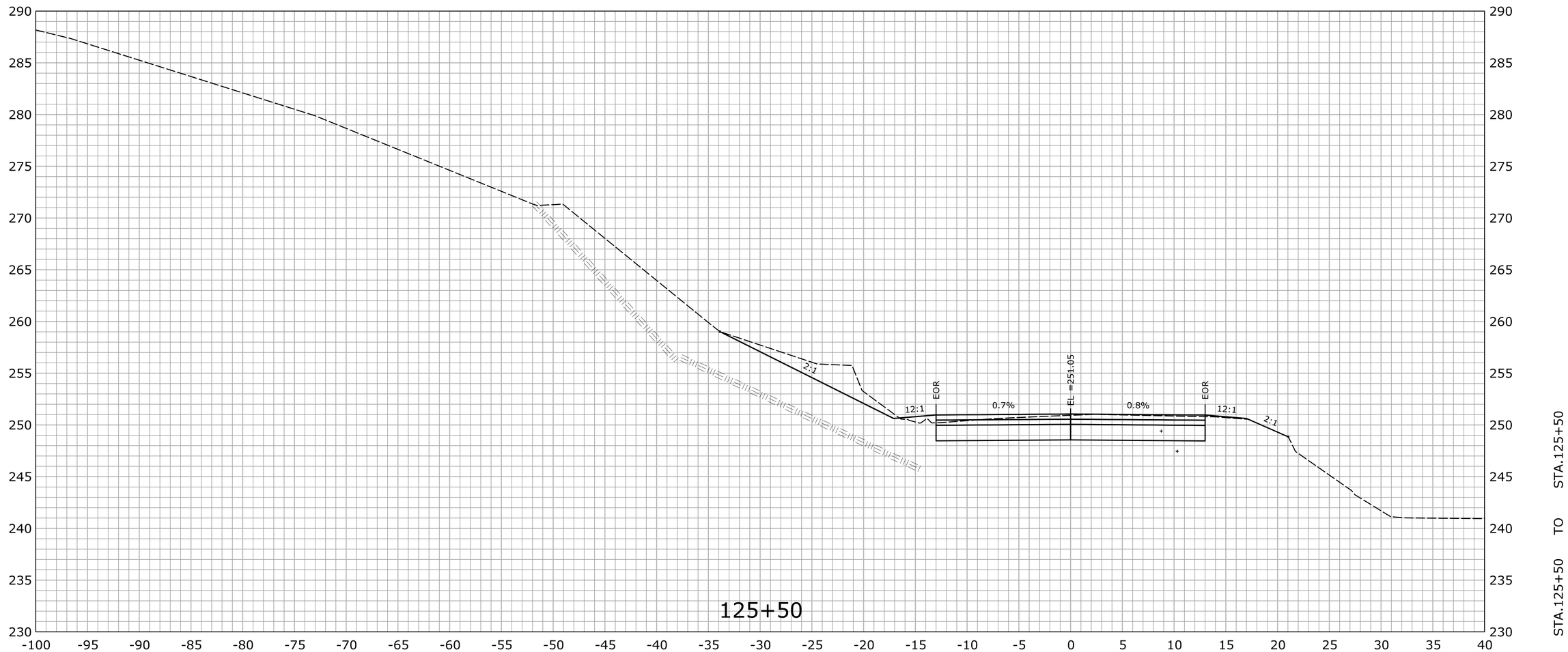
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-094**

SHEET NO. **03.141**



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SAFETY IMPROVEMENTS ON ROUTE 133

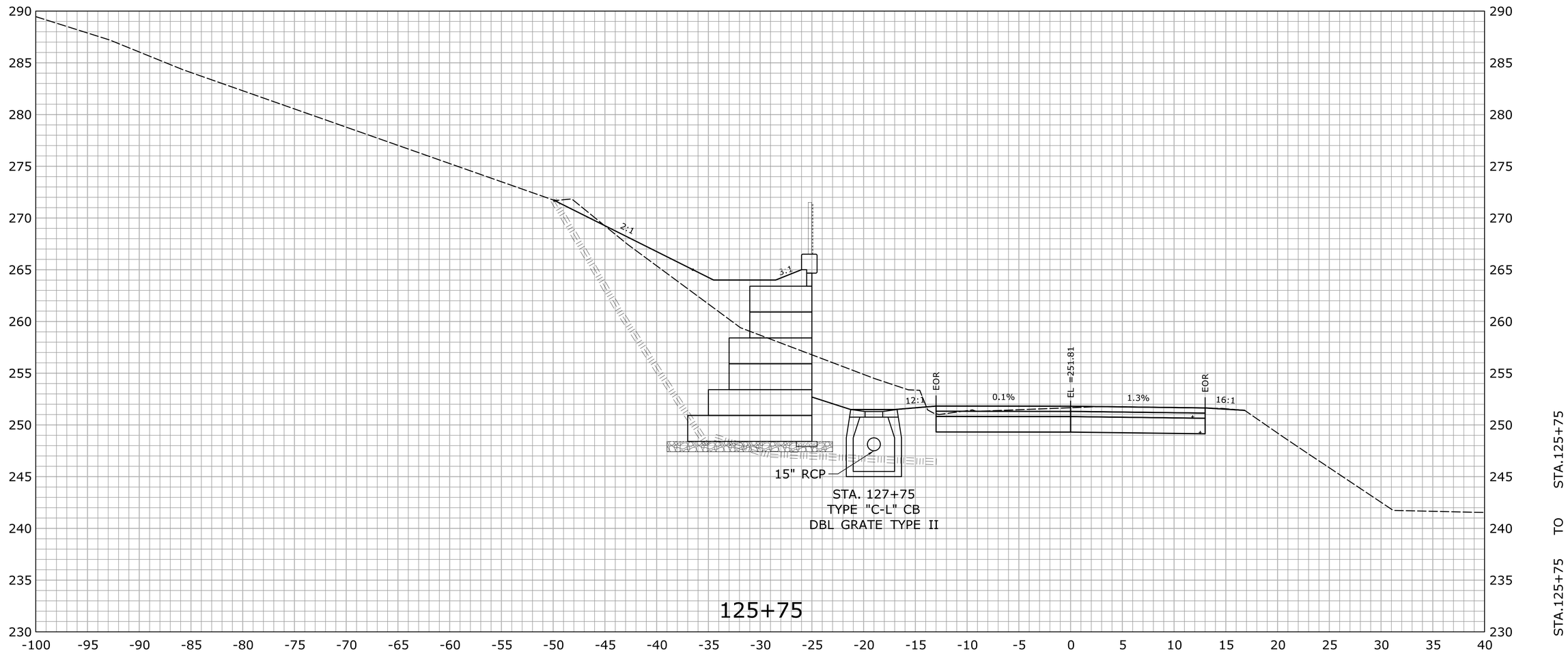
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-095**

SHEET NO. **03.142**



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SAFETY IMPROVEMENTS ON ROUTE 133

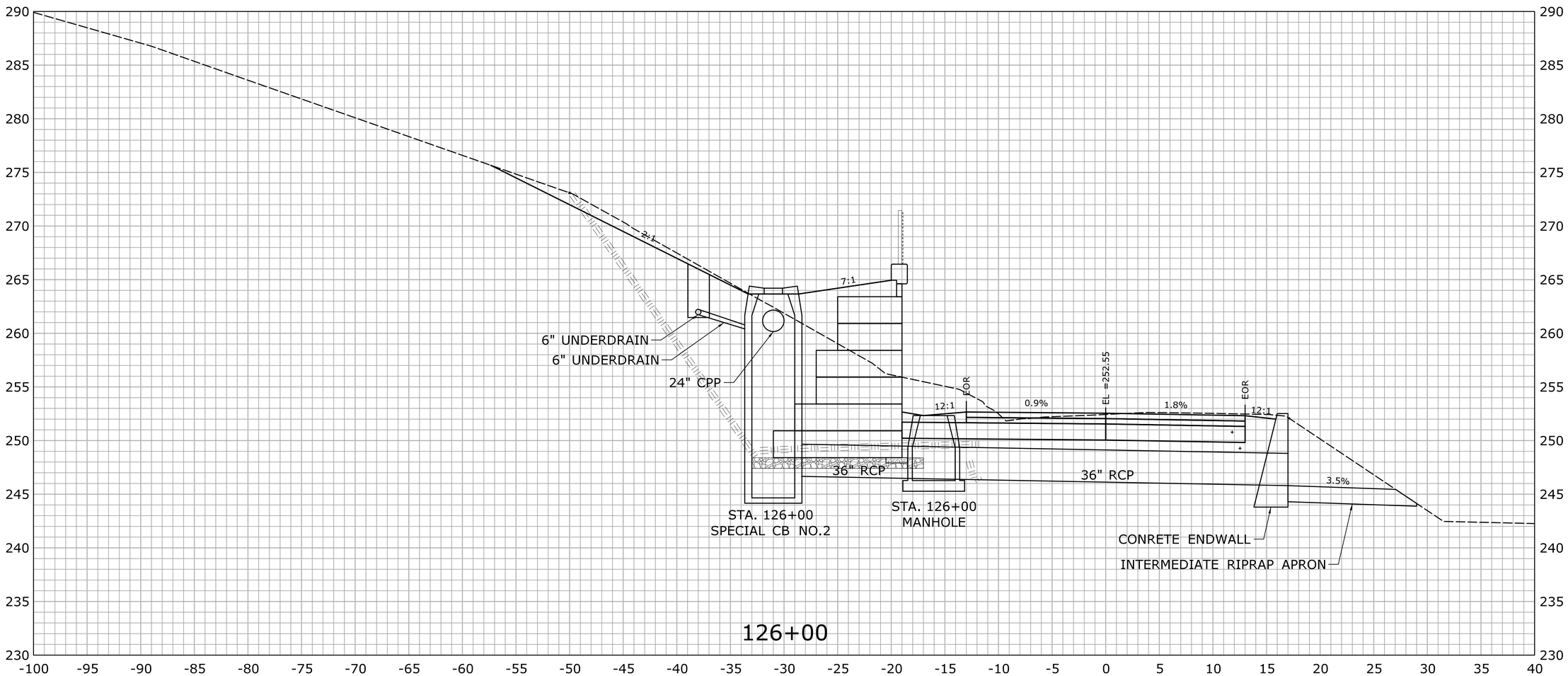
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-096**

SHEET NO. **03.143**



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PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

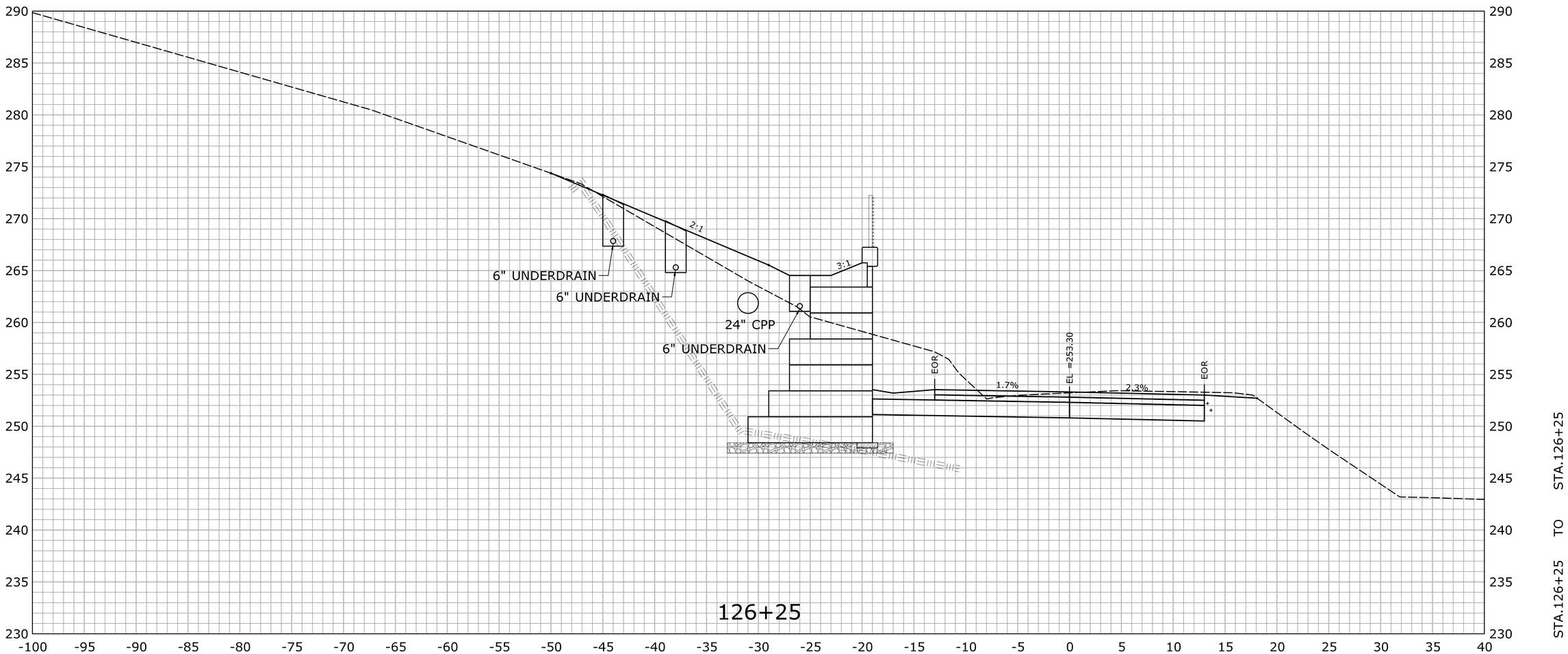
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-097**

SHEET NO. **03.144**



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SAFETY IMPROVEMENTS ON ROUTE 133

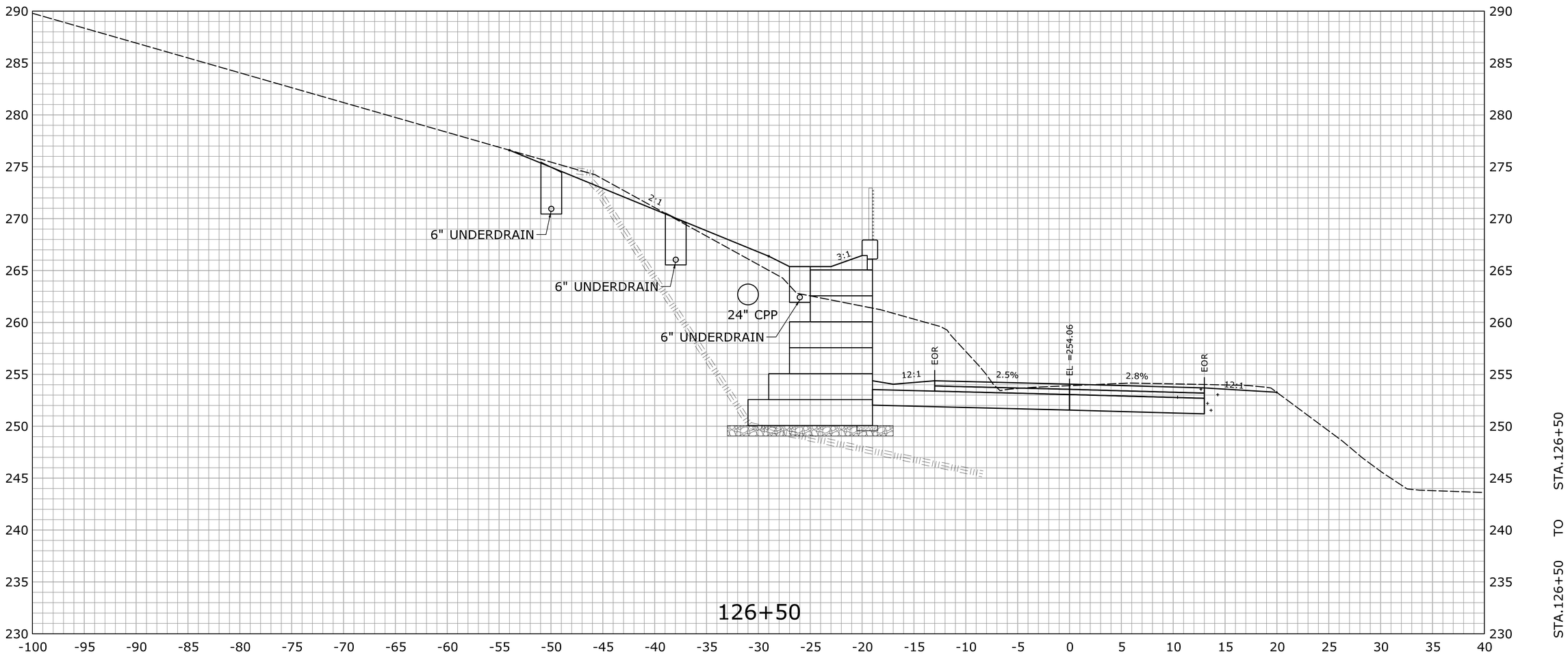
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-098**

SHEET NO. **03.145**



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SAFETY IMPROVEMENTS ON ROUTE 133

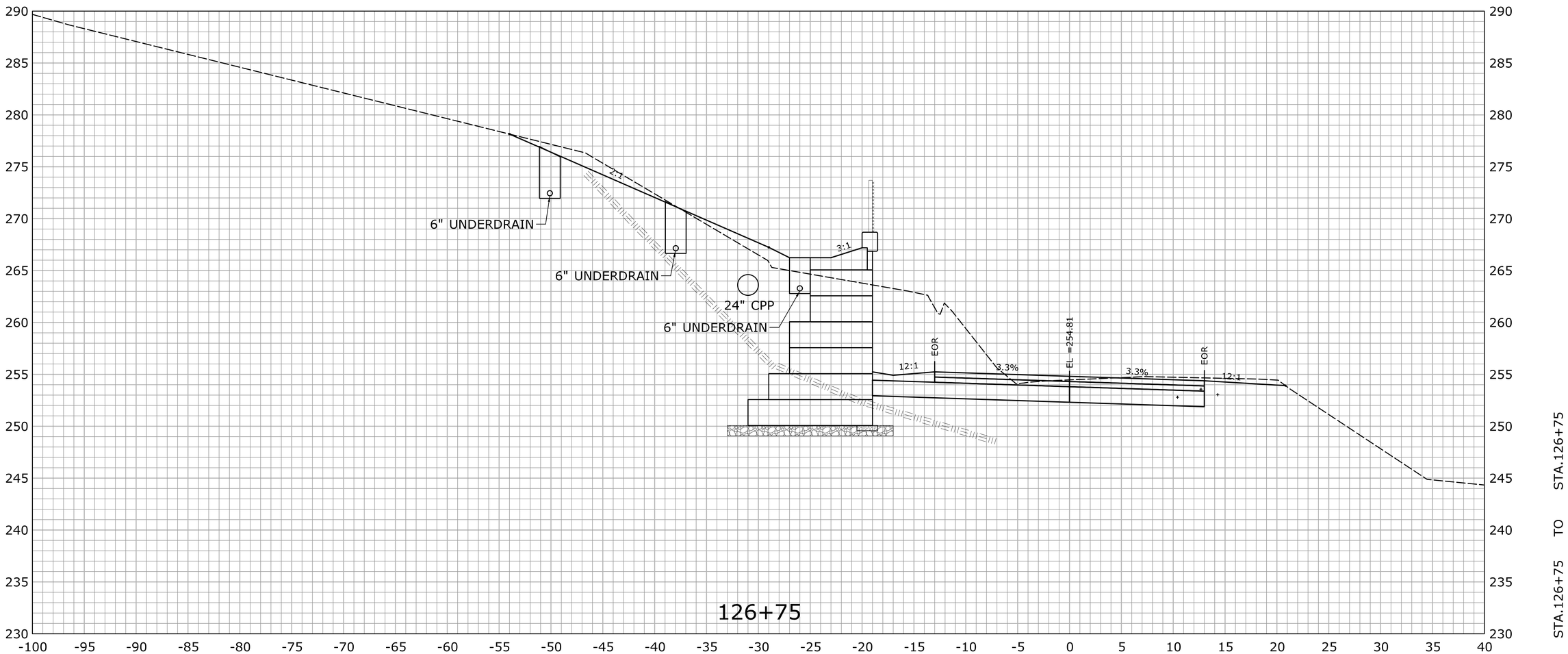
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-099**

SHEET NO. **03.146**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

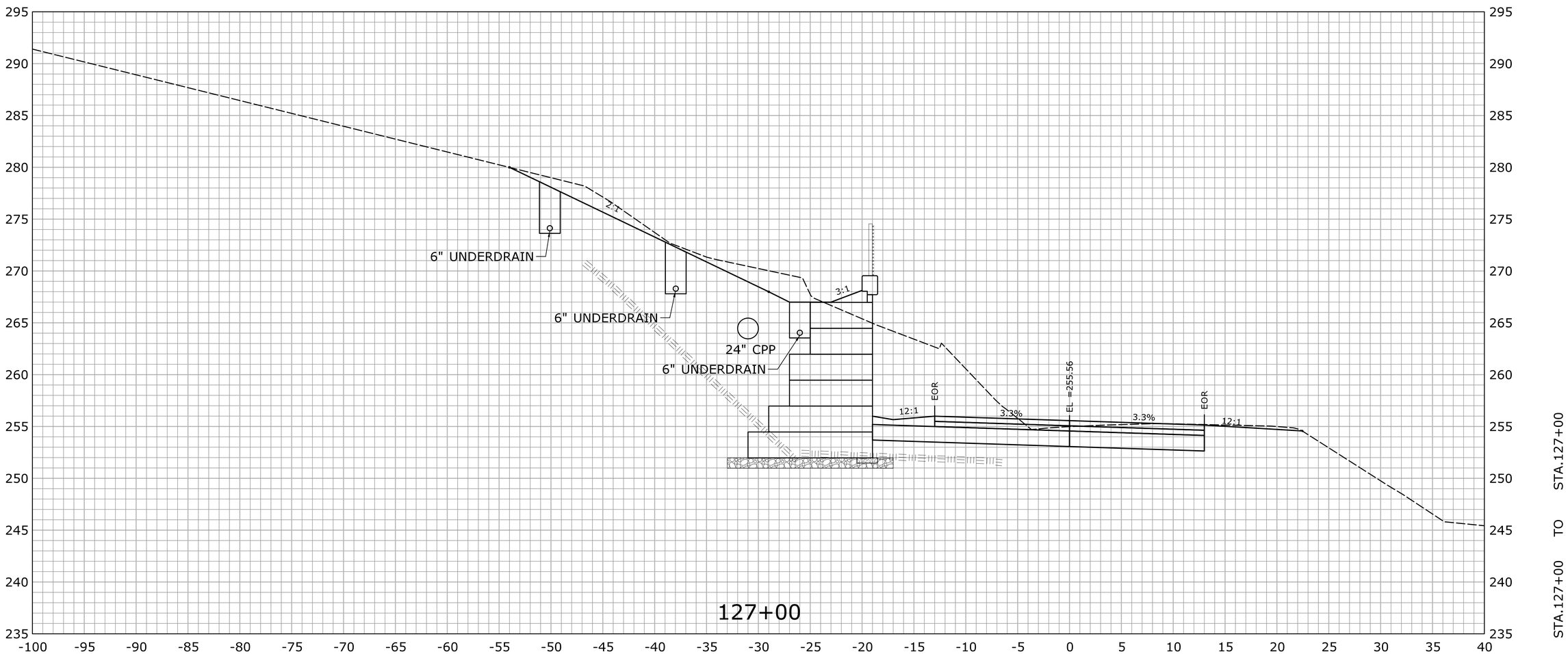
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-100**

SHEET NO. **03.147**



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SAFETY IMPROVEMENTS ON ROUTE 133

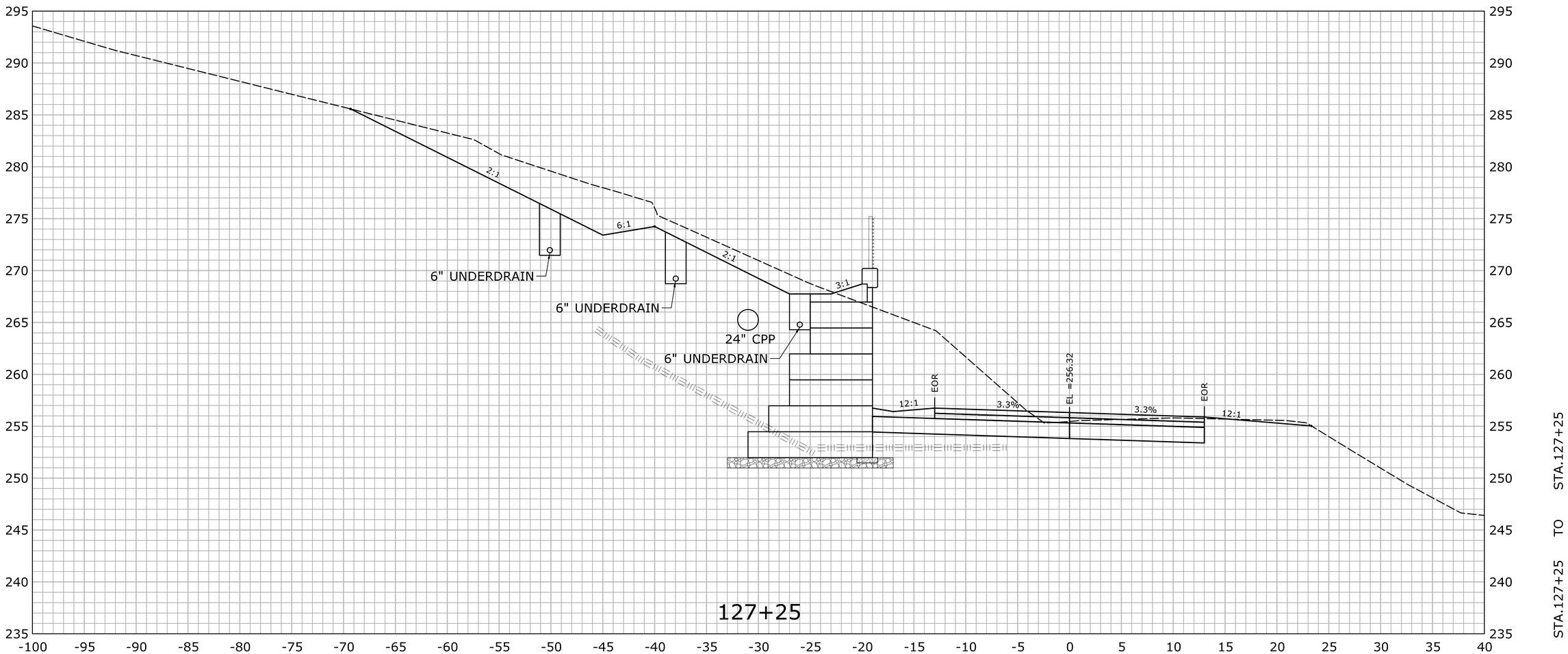
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-101**

SHEET NO. **03.148**



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SAFETY IMPROVEMENTS ON ROUTE 133

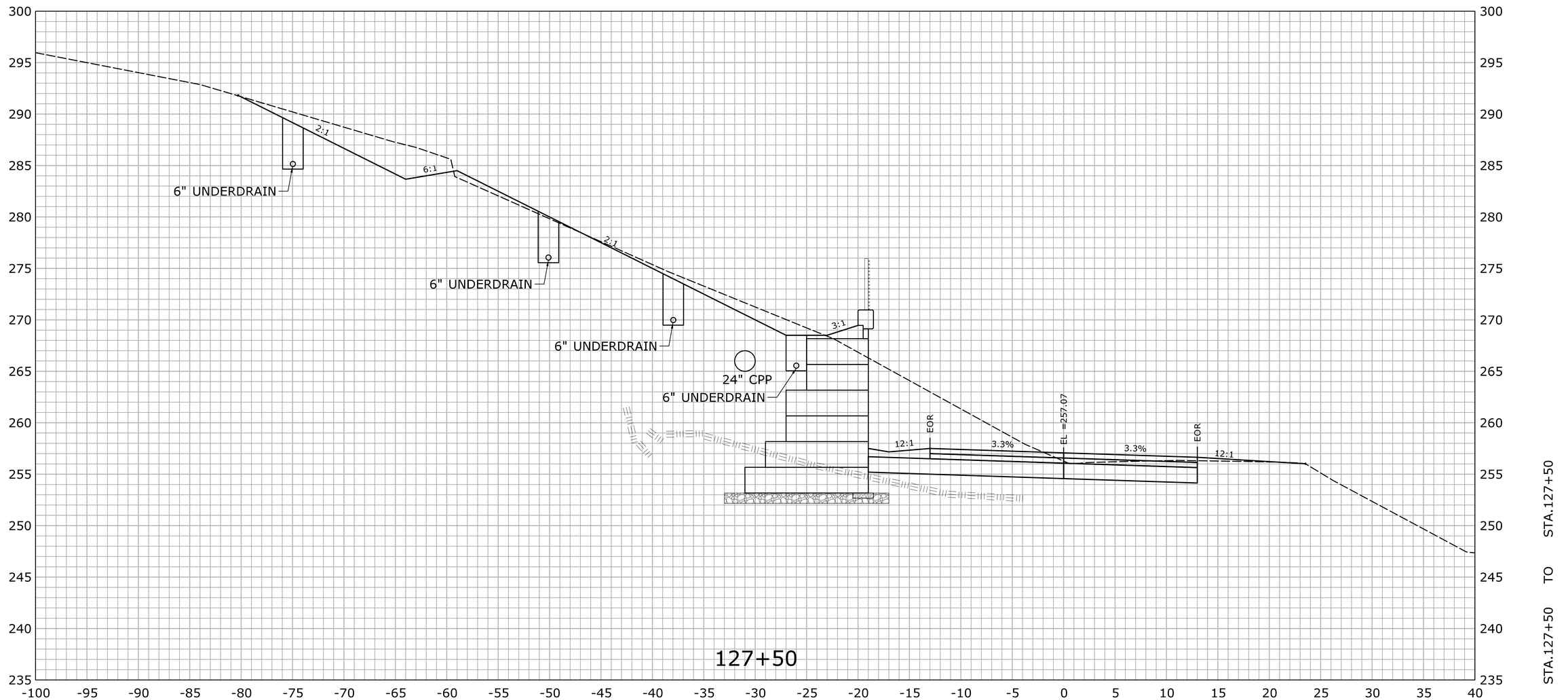
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-102**

SHEET NO. **03.149**



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SAFETY IMPROVEMENTS ON ROUTE 133

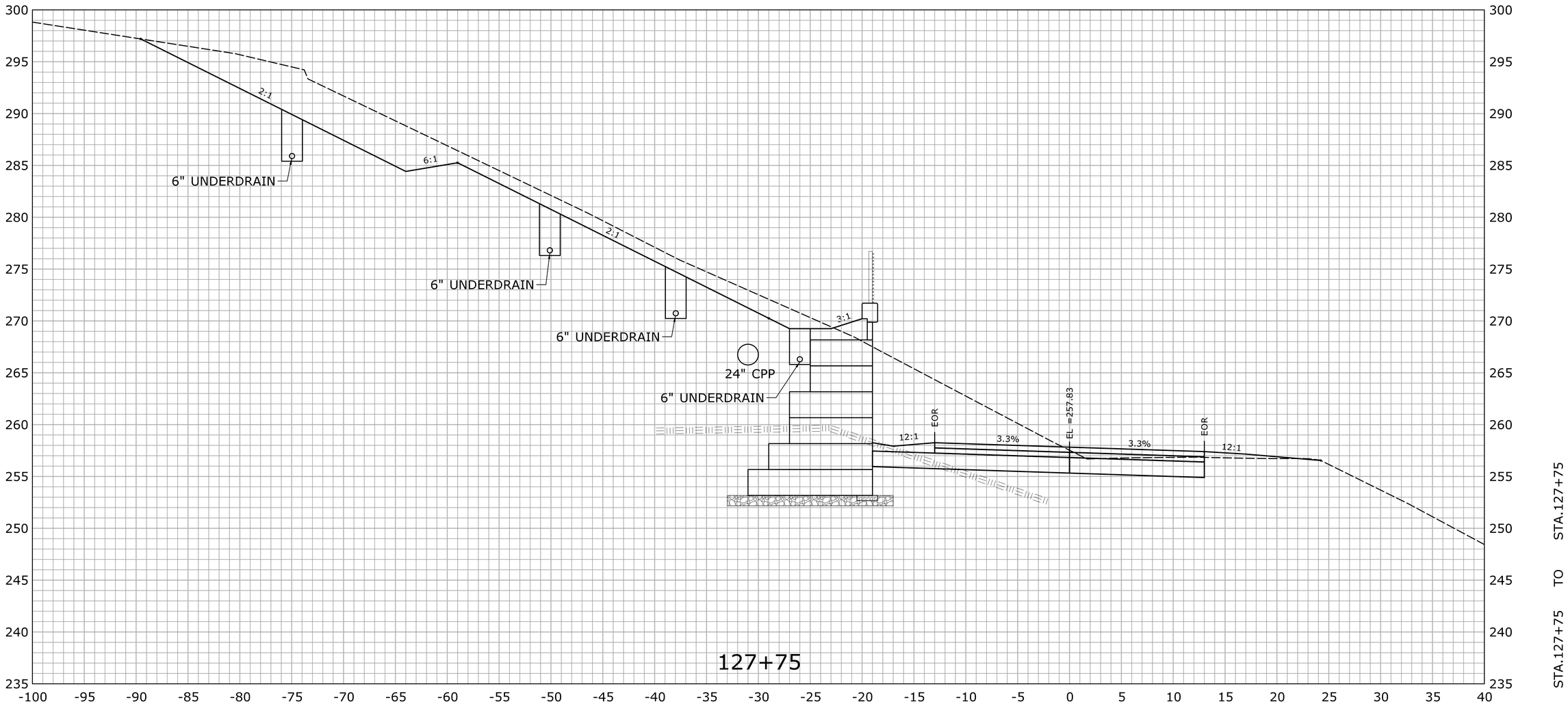
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-103**

SHEET NO. **03.150**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

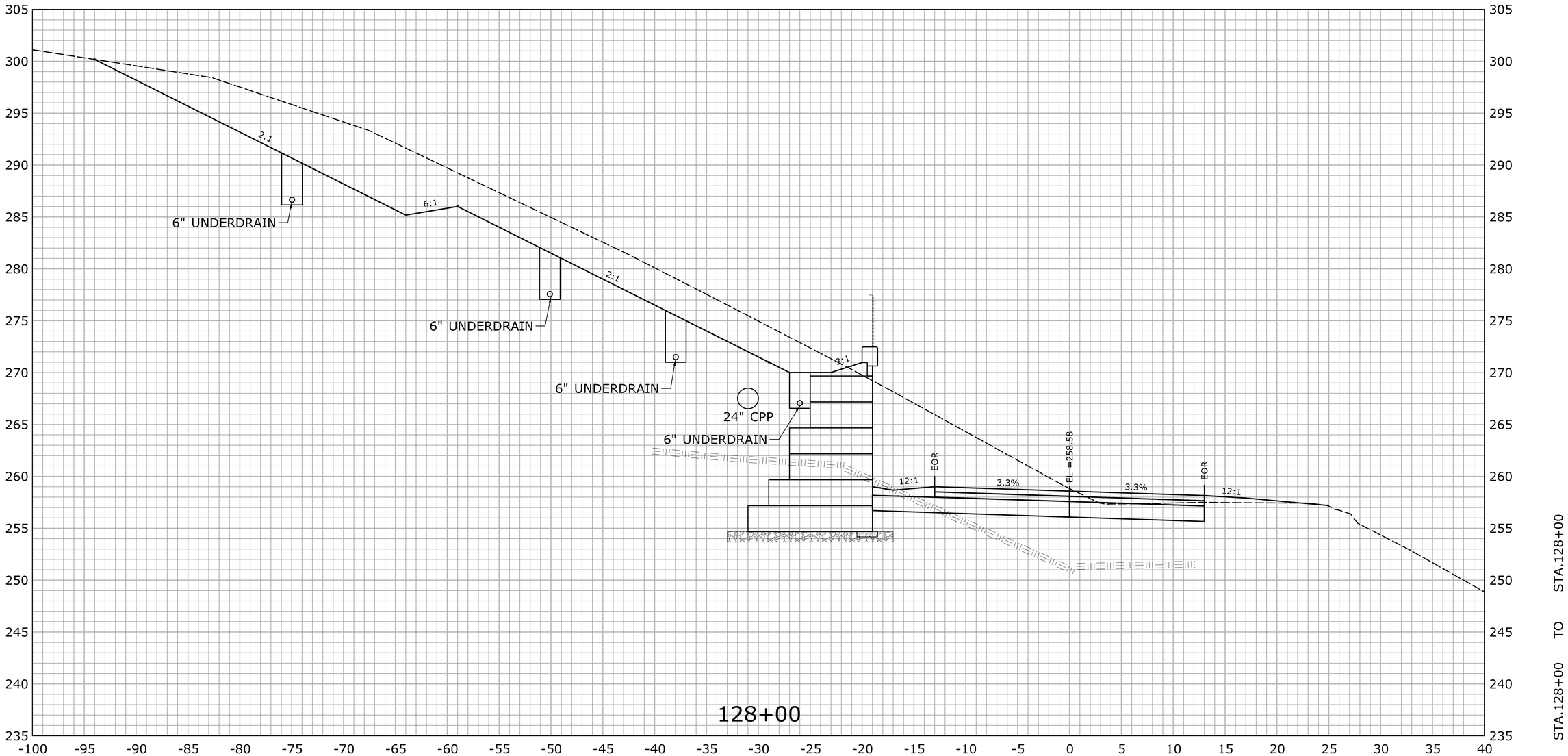
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-104**

SHEET NO. **03.151**



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SAFETY IMPROVEMENTS ON ROUTE 133

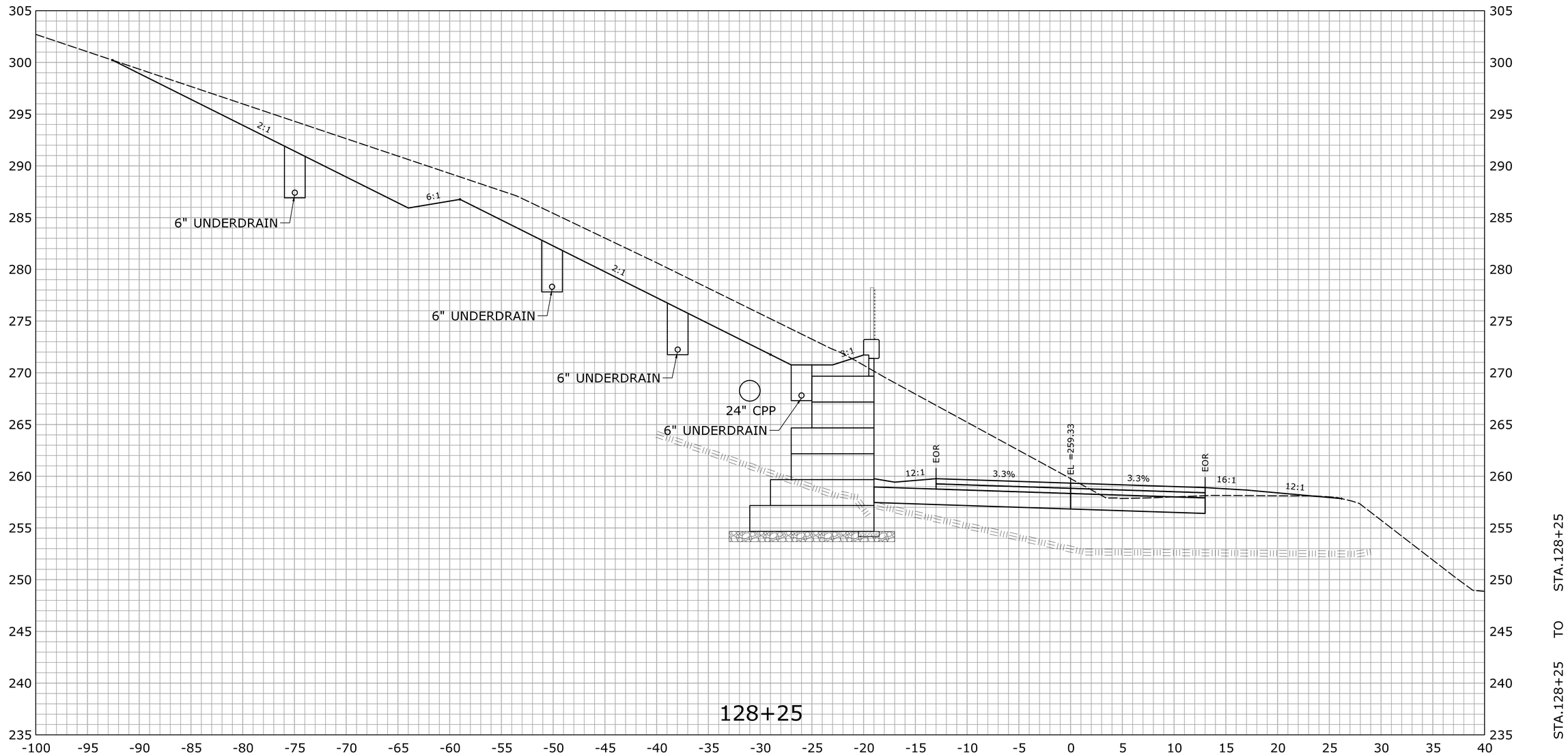
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-105**

SHEET NO. **03.152**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

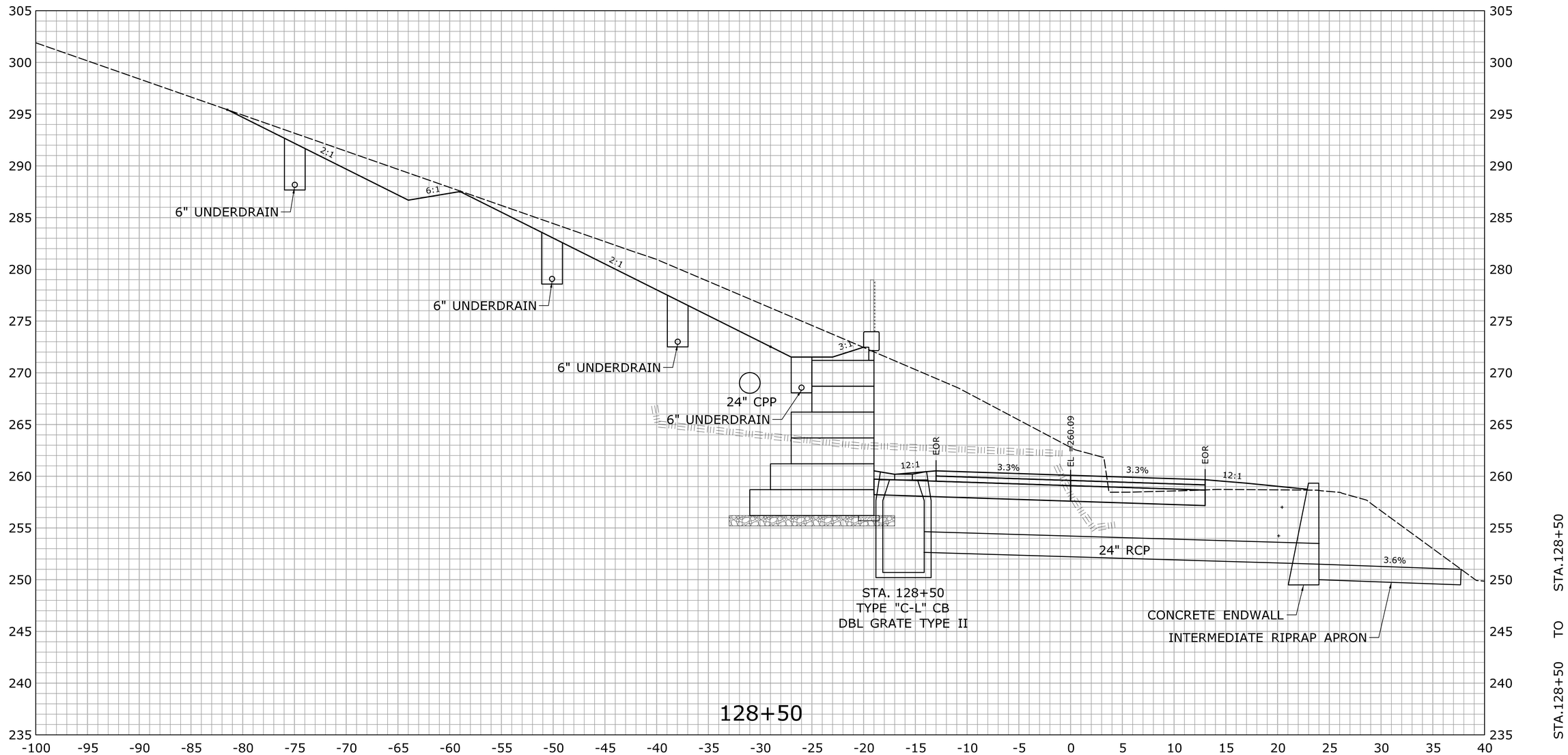
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-106**

SHEET NO. **03.153**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

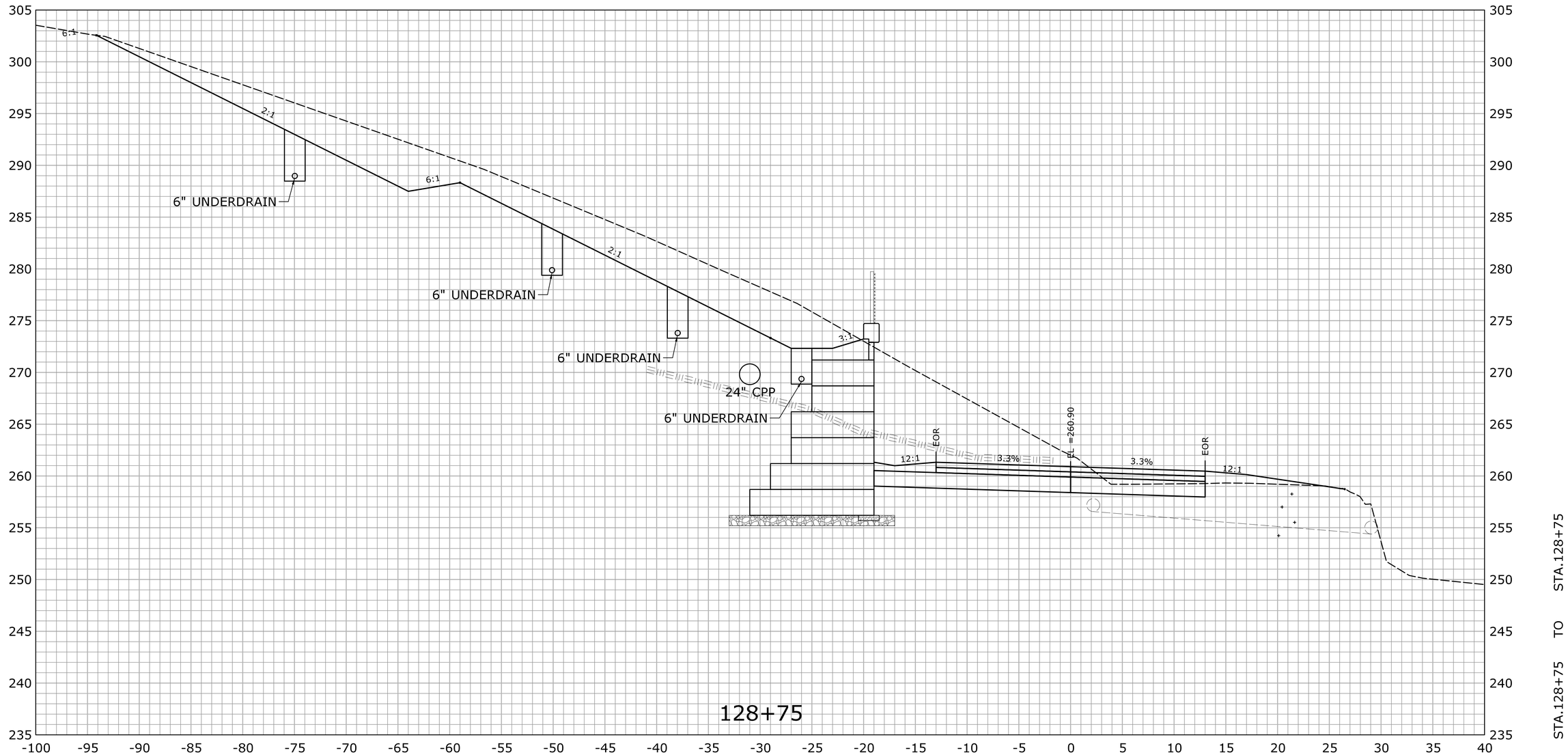
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-107**

SHEET NO. **03.154**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

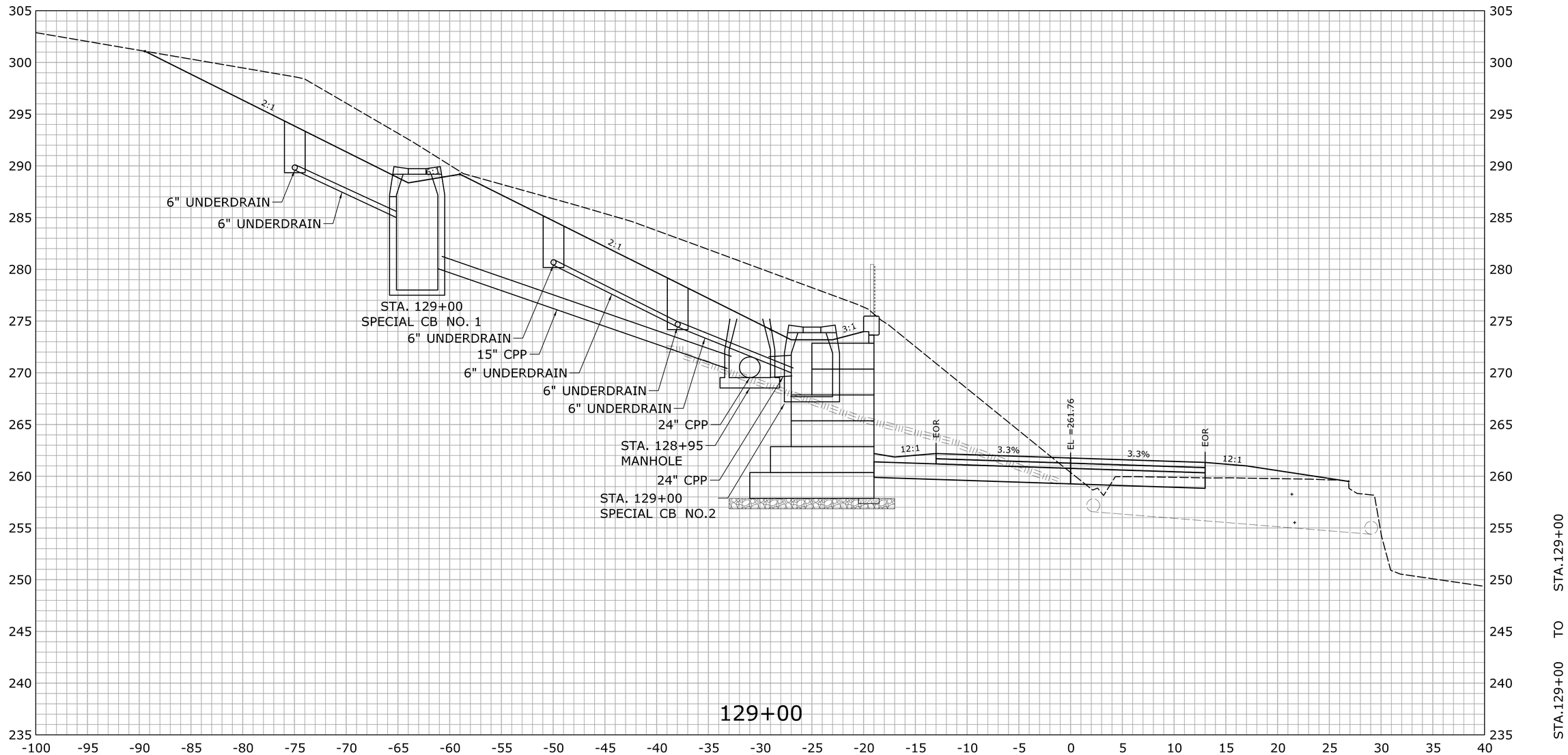
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-108**

SHEET NO. **03.155**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

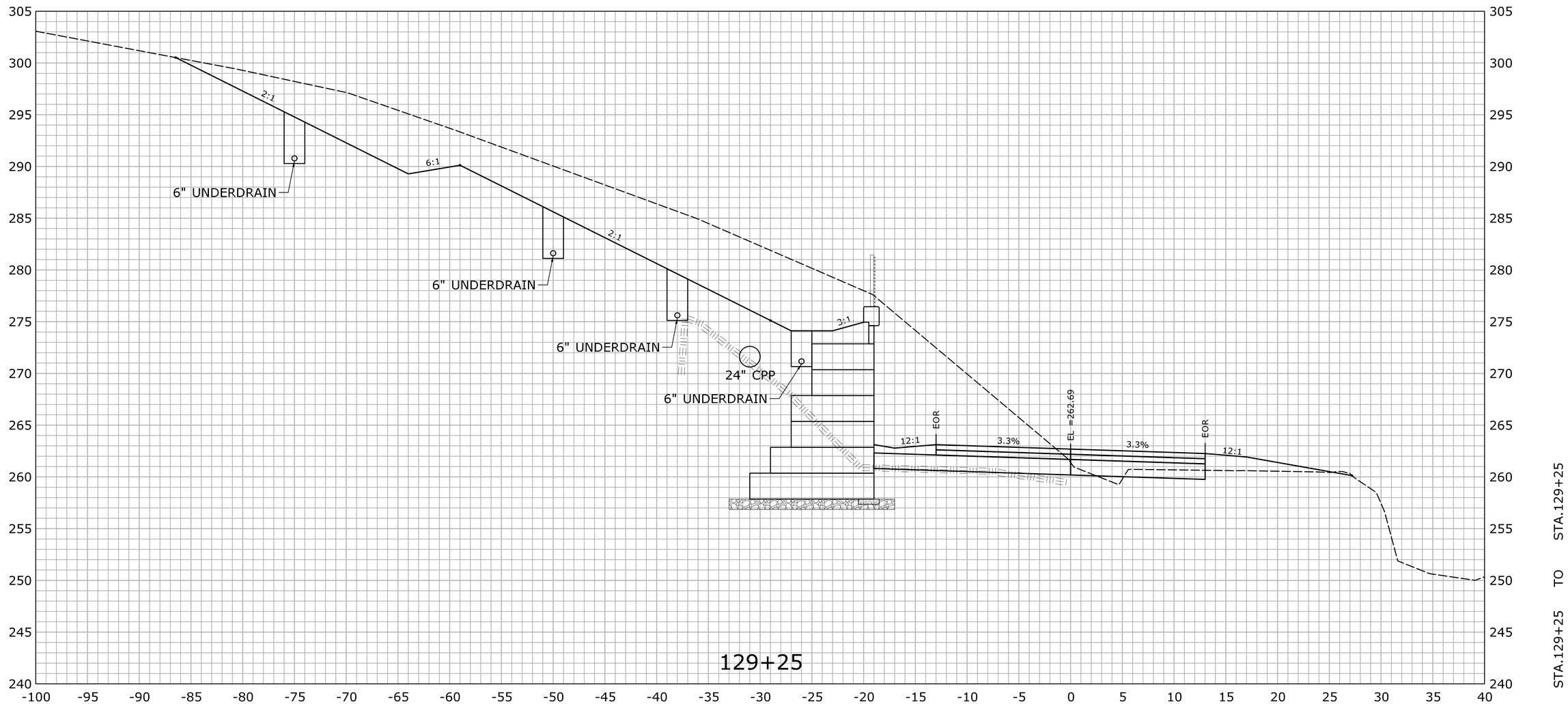
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-109**

SHEET NO. **03.156**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

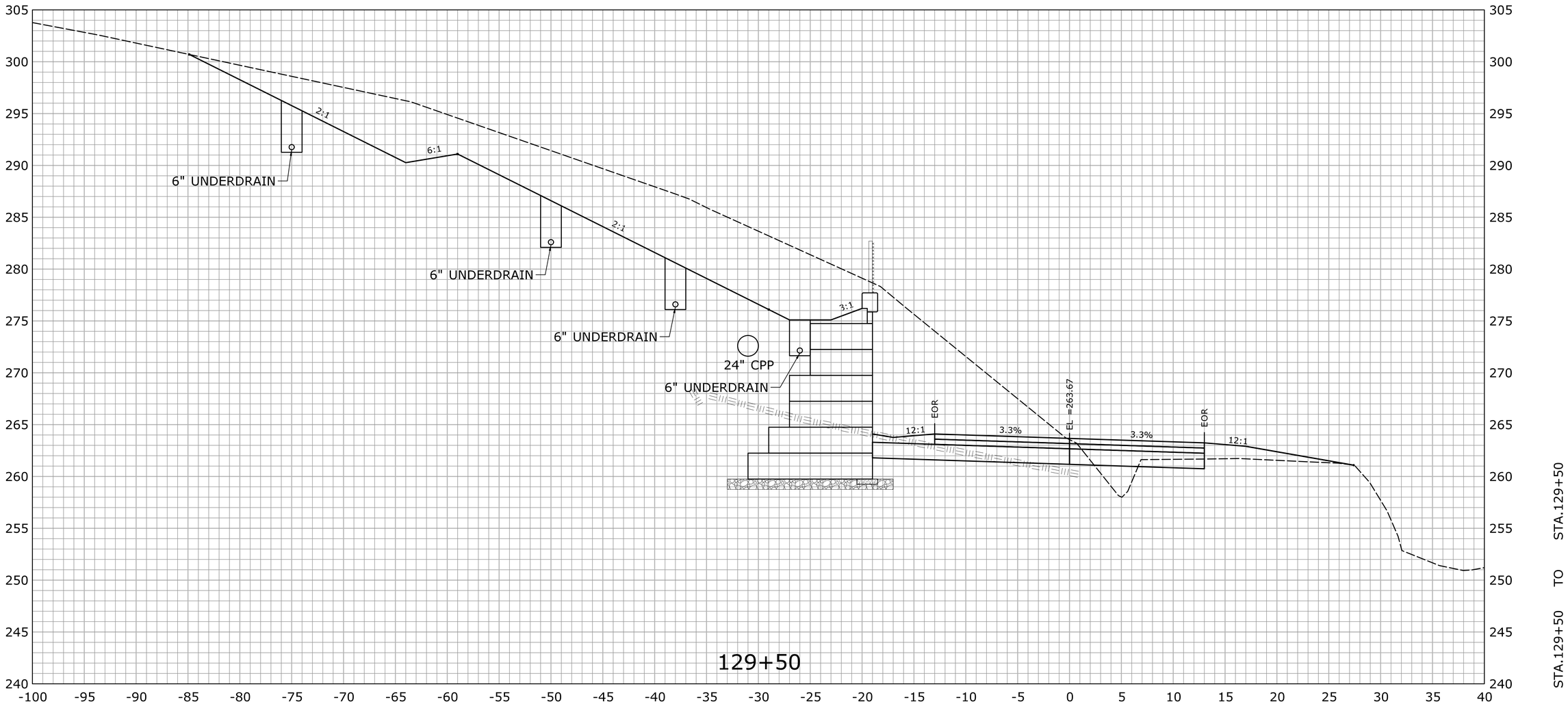
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-110**

SHEET NO. **03.157**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

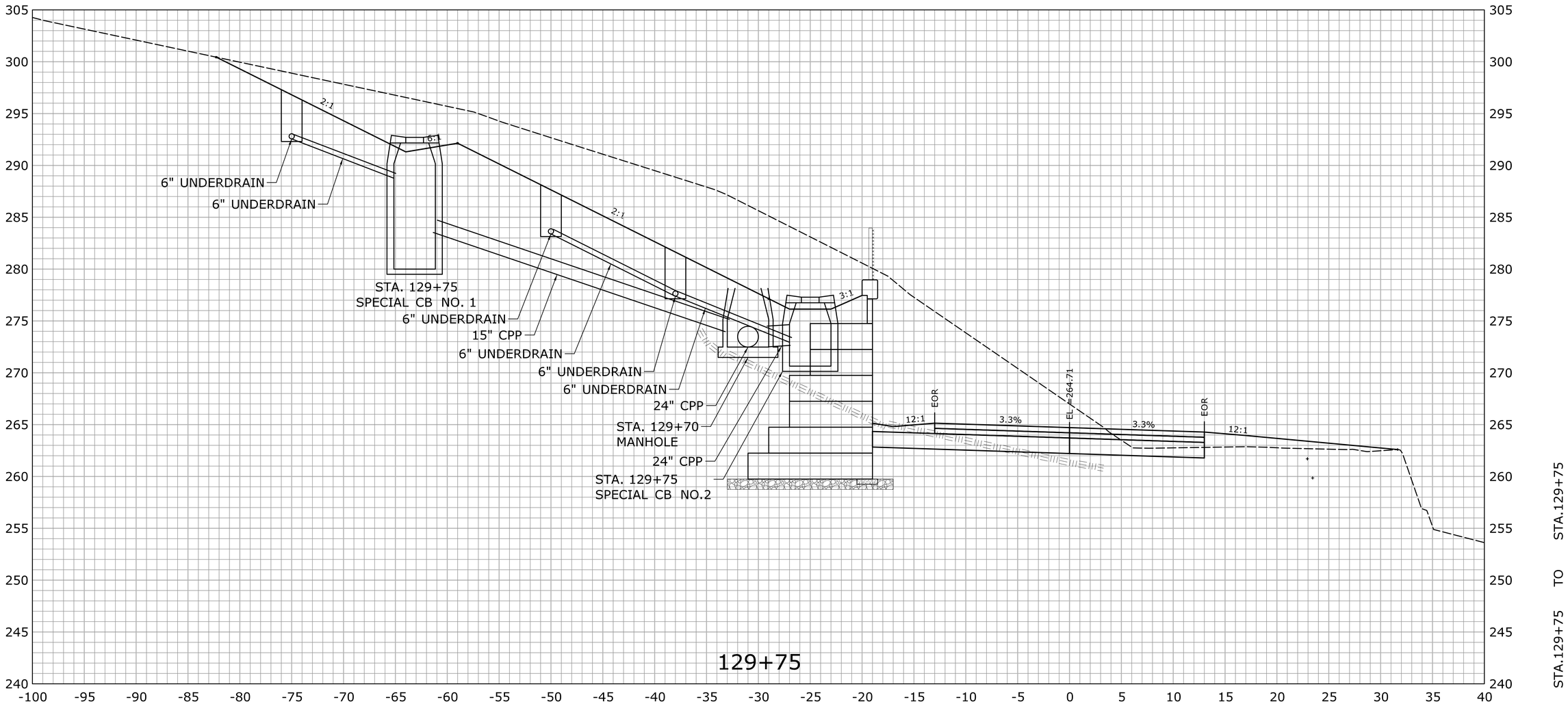
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-111**

SHEET NO. **03.158**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

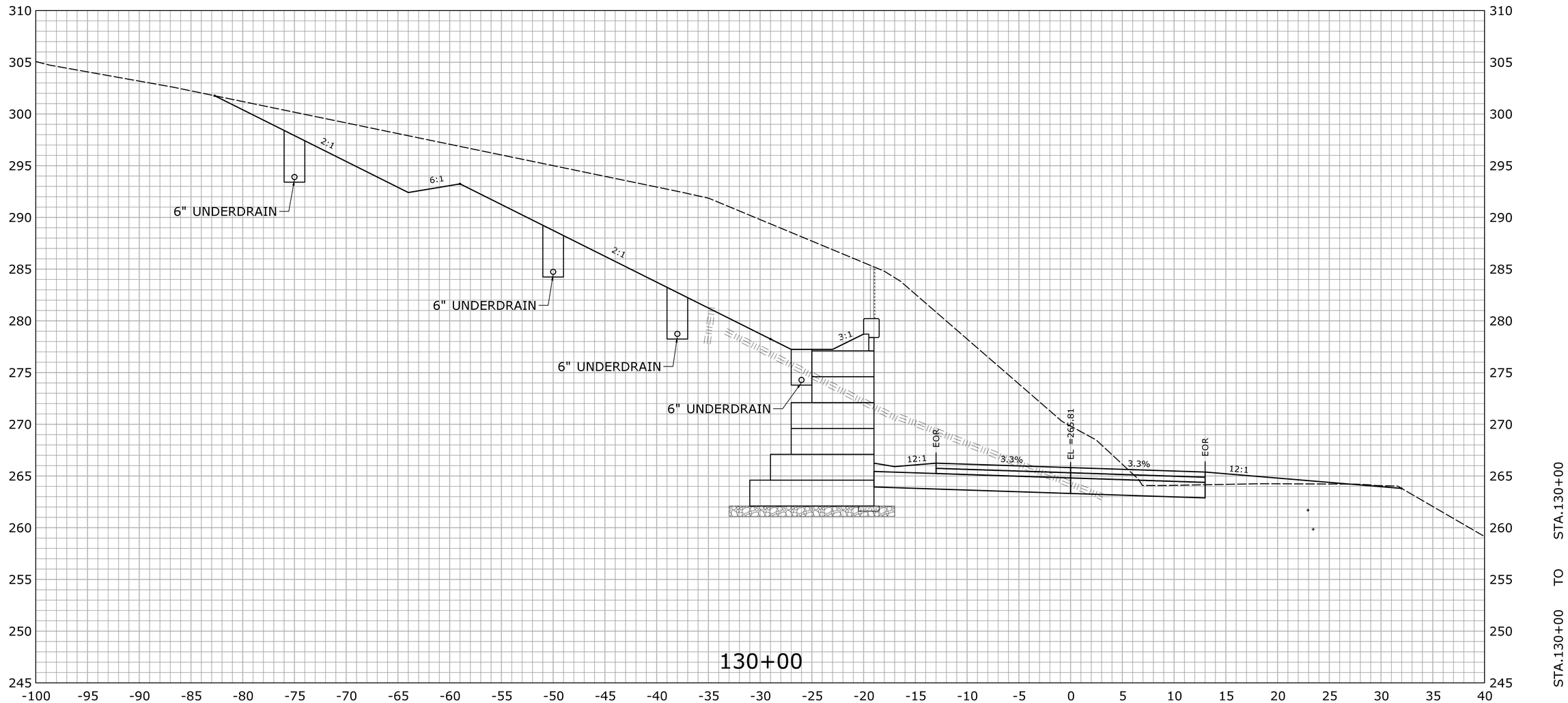
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-112**

SHEET NO. **03.159**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

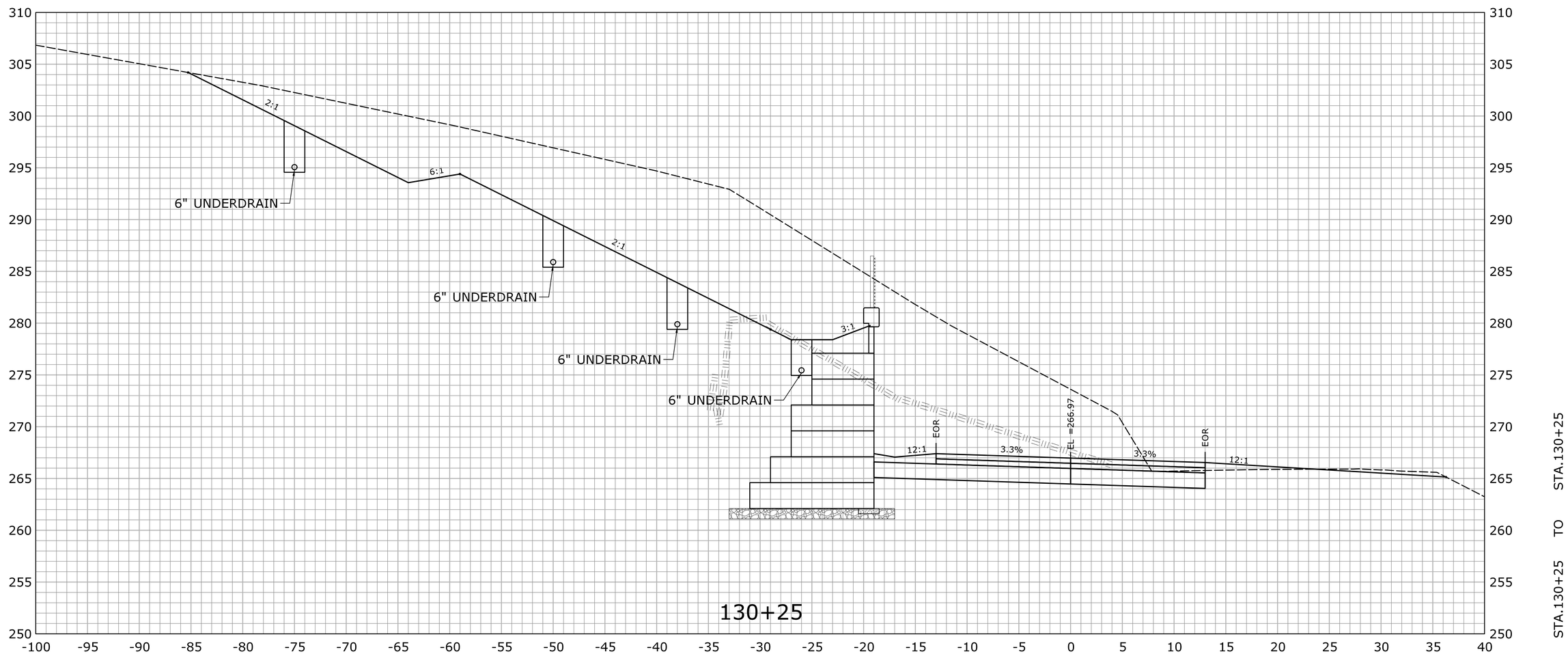
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-113**

SHEET NO. **03.160**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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STATE OF CONNECTICUT
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PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

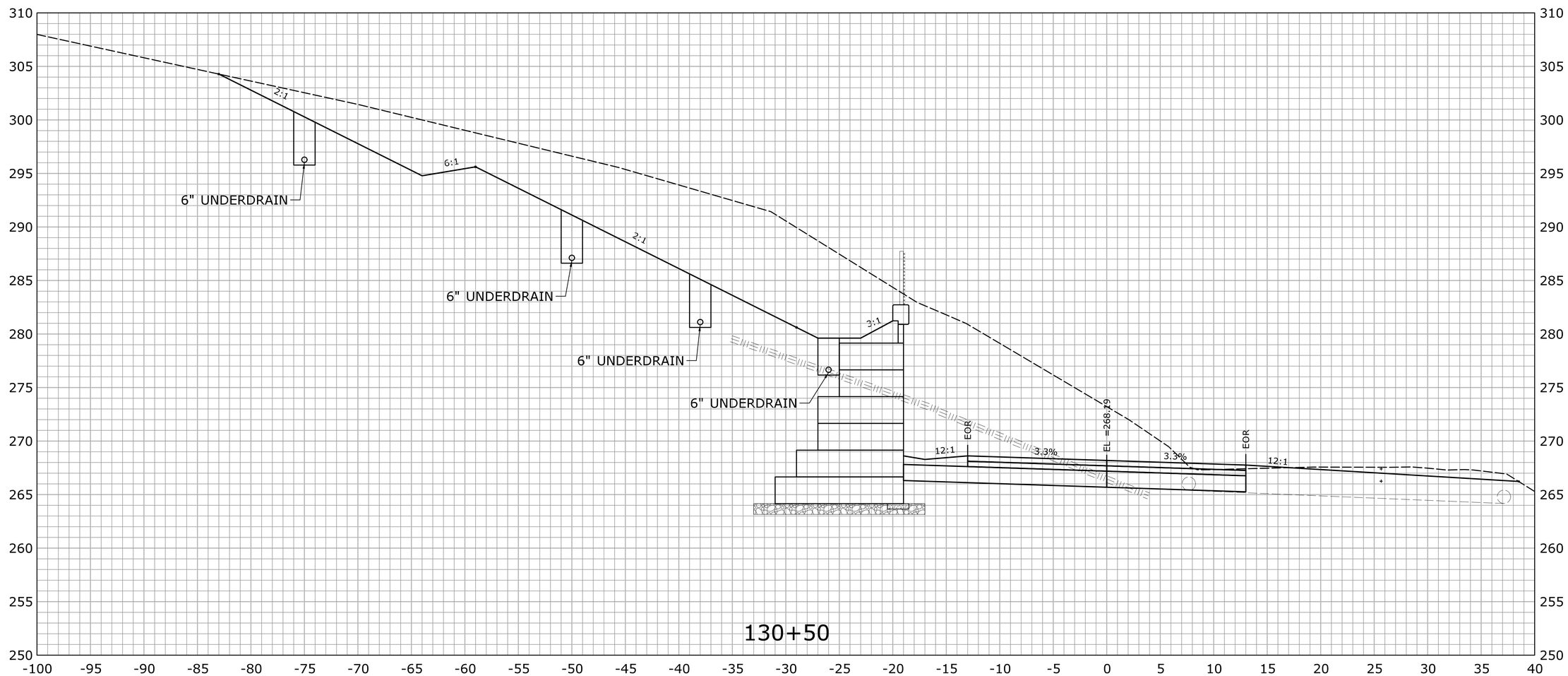
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-114**

SHEET NO. **03.161**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

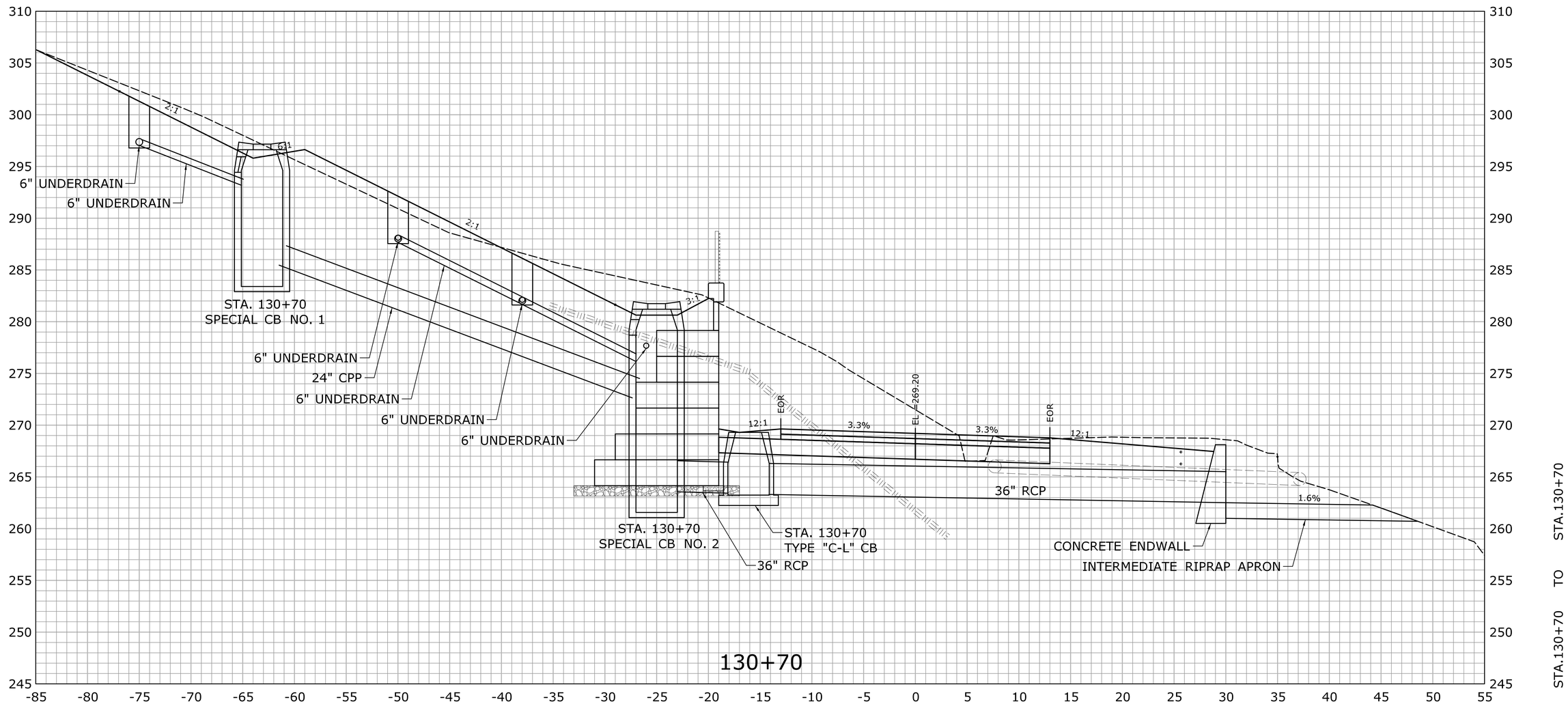
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-115**

SHEET NO. **03.162**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

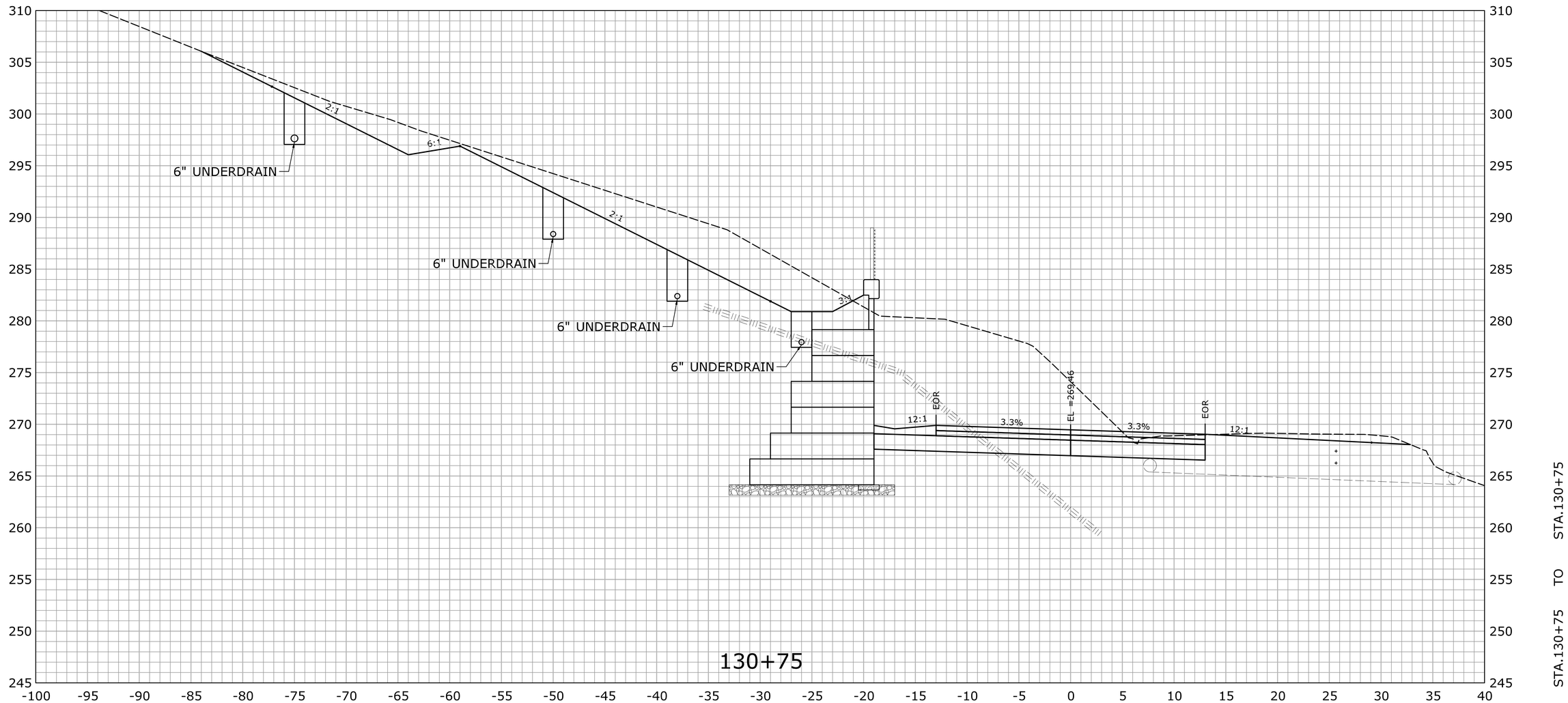
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-116**

SHEET NO. **03.163**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

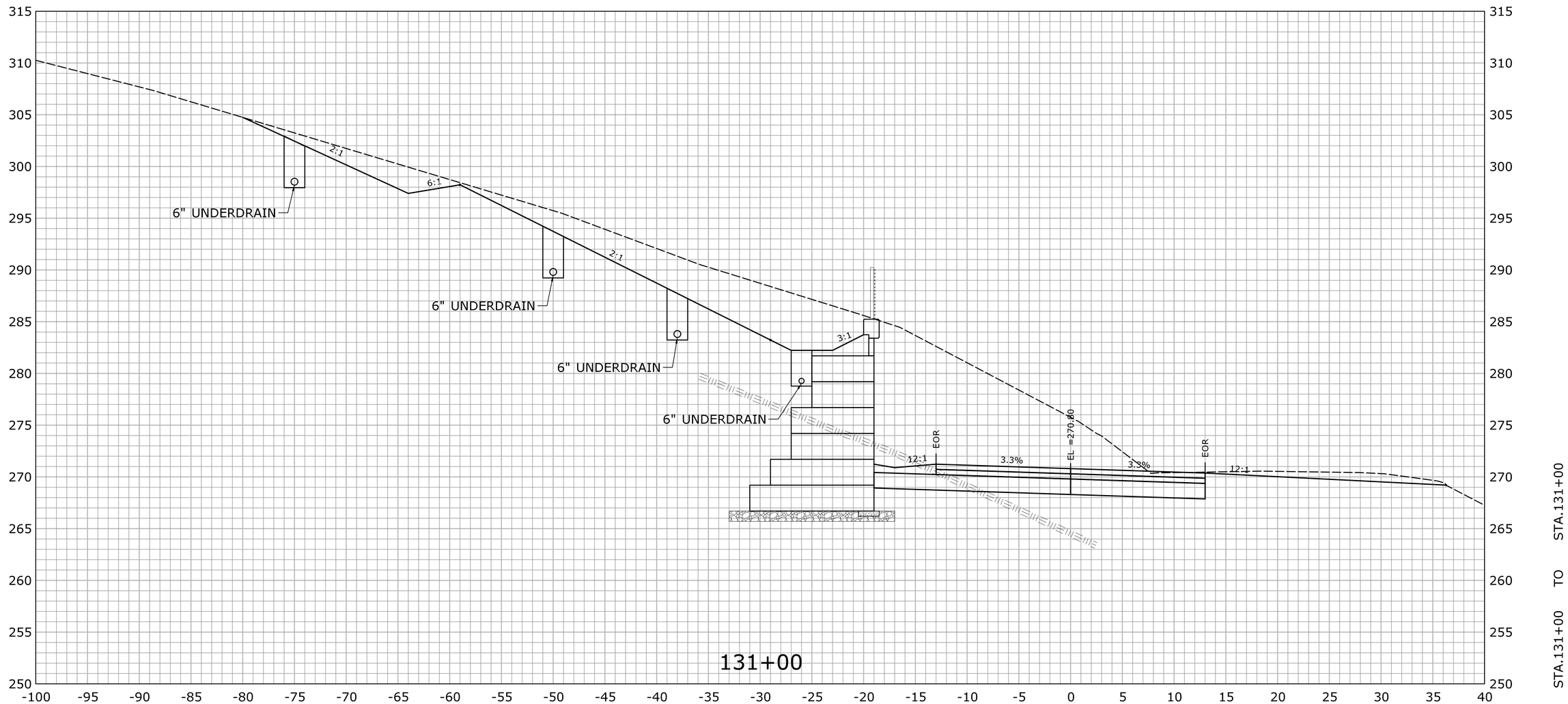
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-117**

SHEET NO. **03.164**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

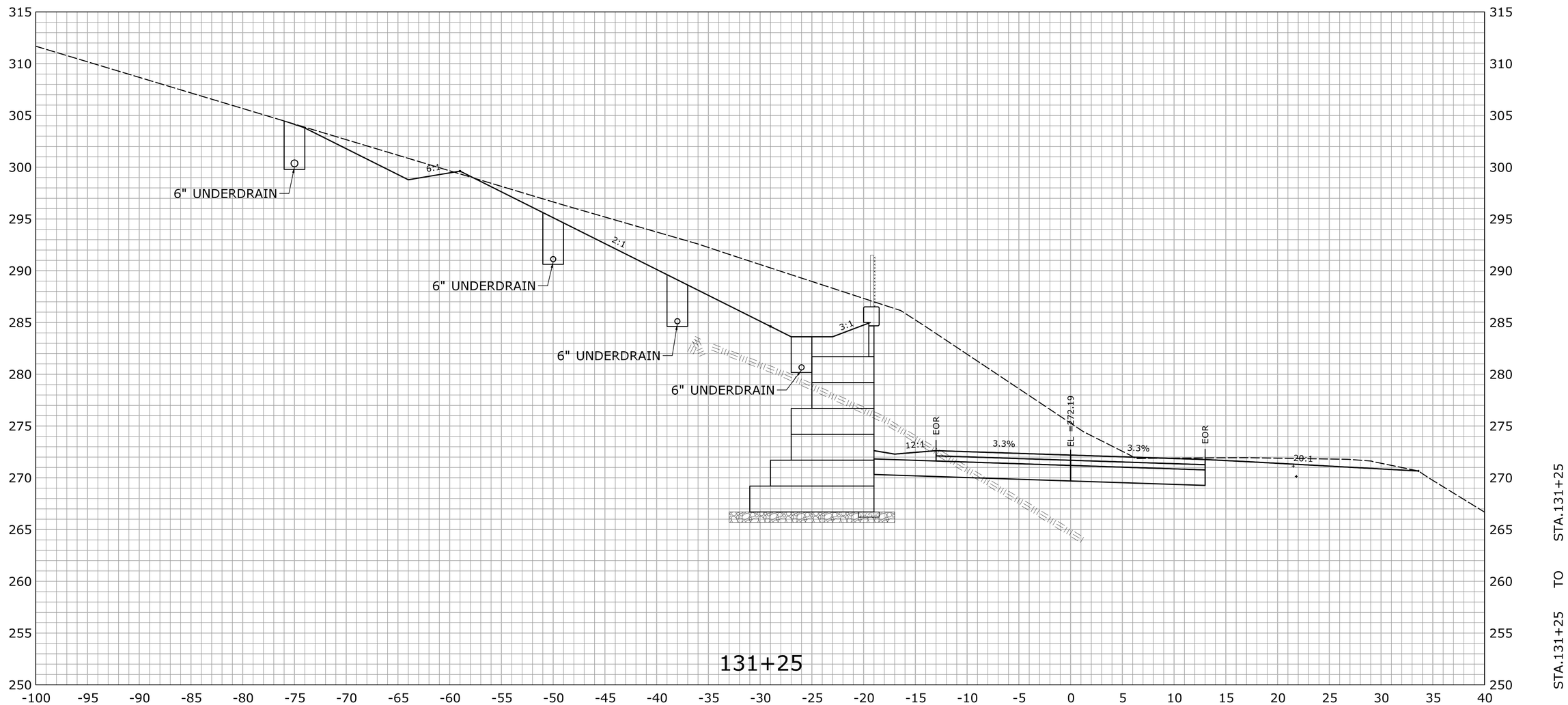
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-118**

SHEET NO. **03.165**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

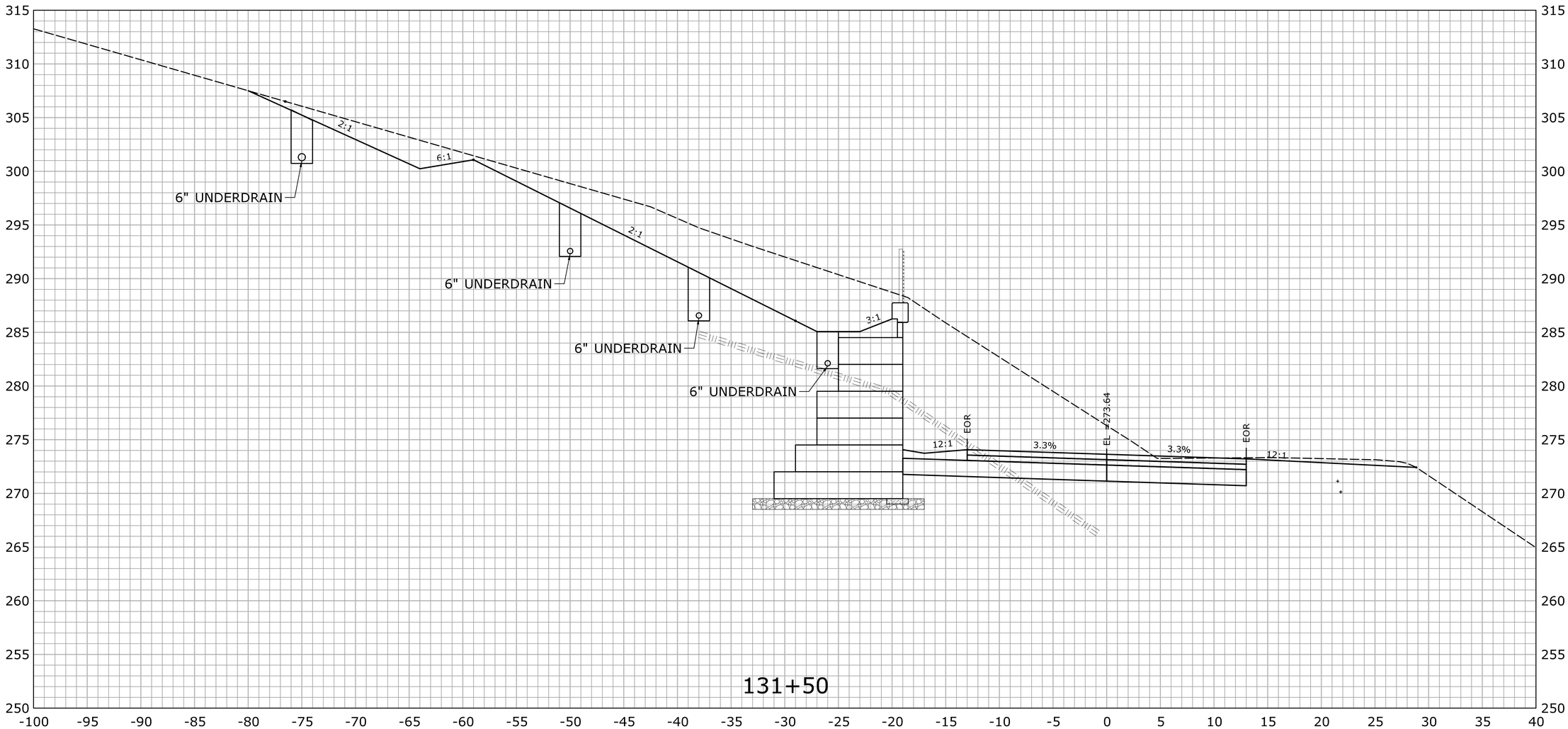
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-119**

SHEET NO. **03.166**



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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

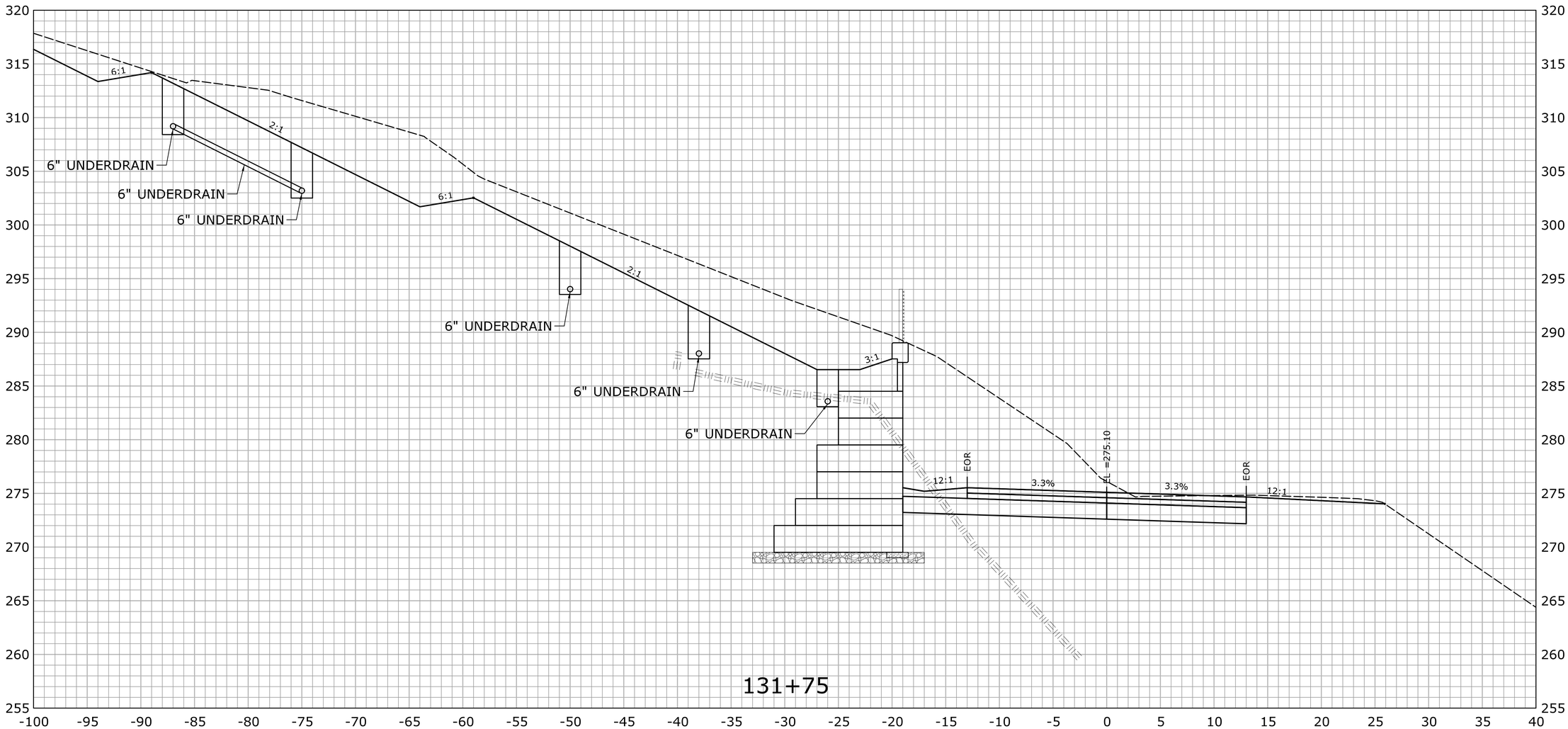
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-120**

SHEET NO. **03.167**



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Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

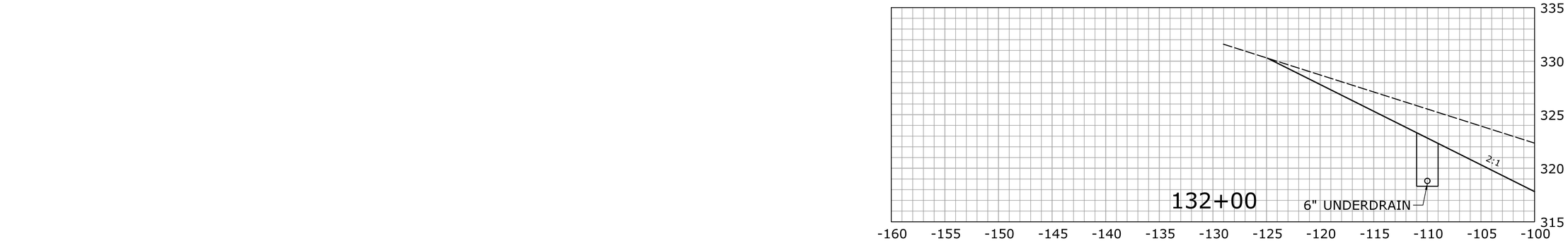
TOWN: **BRIDGEWATER**

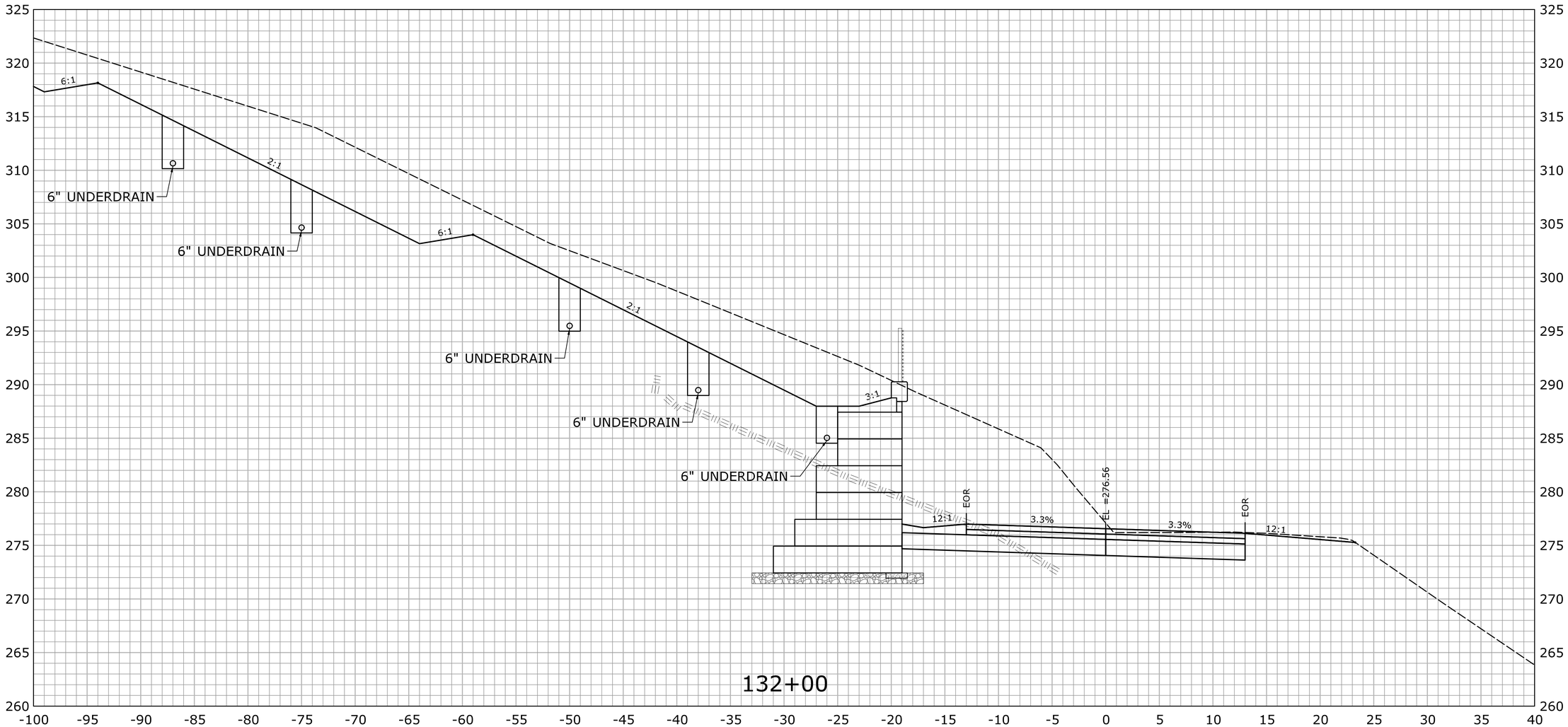
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-121**

SHEET NO. **03.168**





STA.132+00 TO STA.132+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

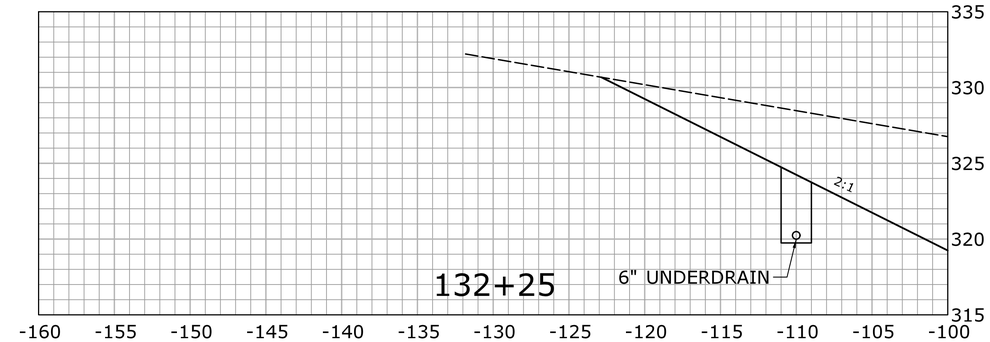
TOWN: **BRIDGEWATER**

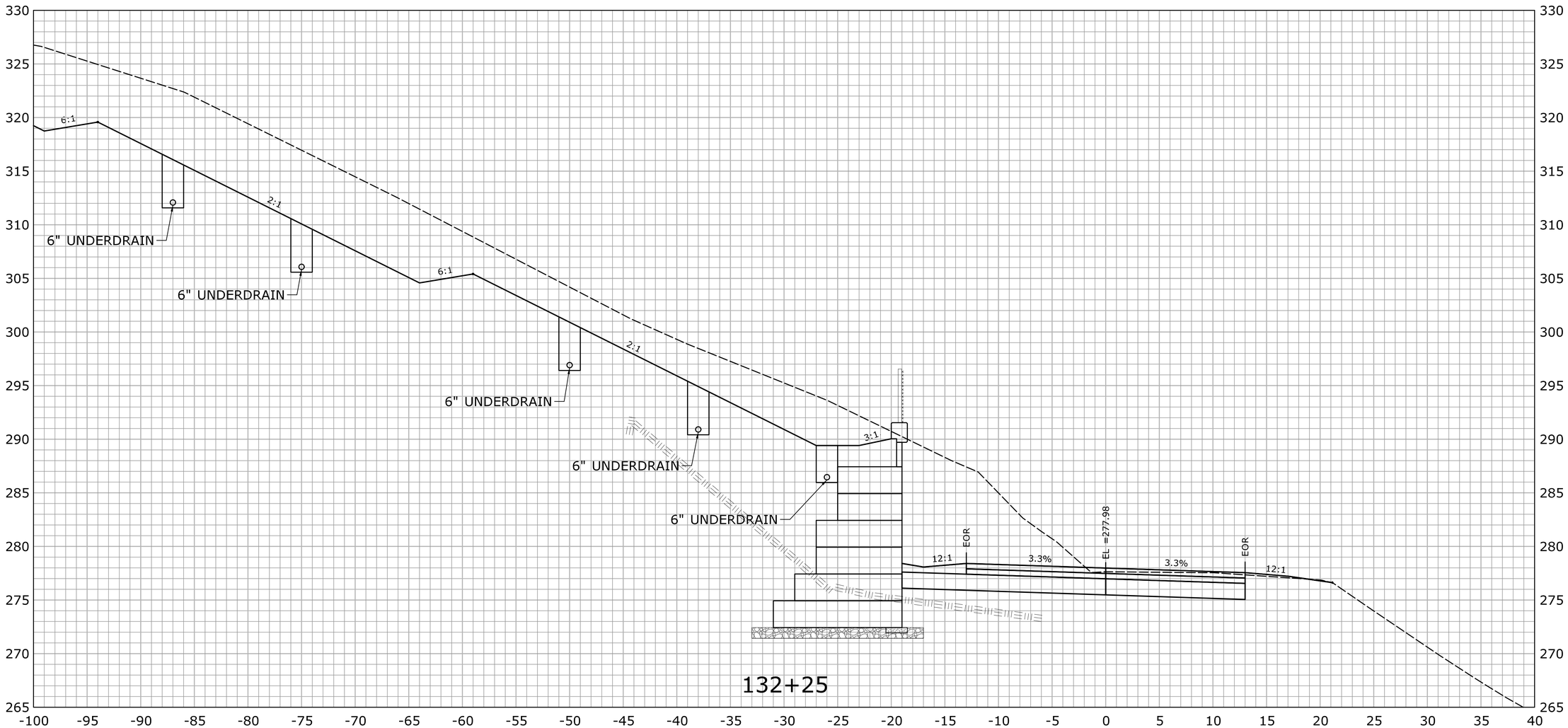
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-122**

SHEET NO. **03.169**





STA.132+25 TO STA.132+25

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

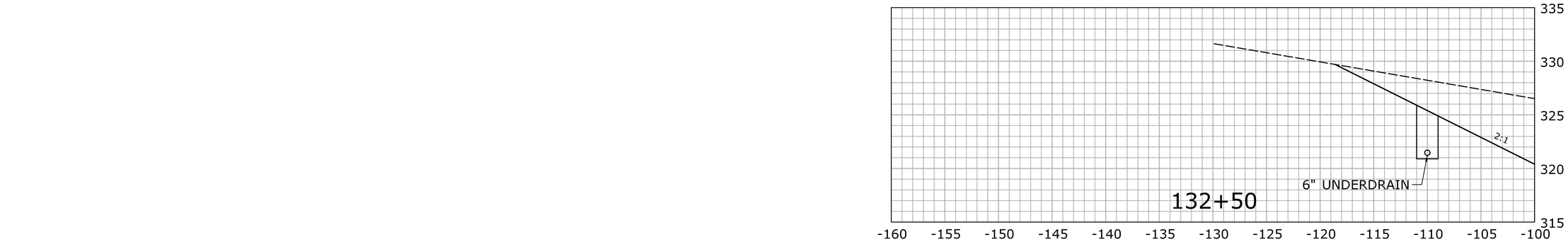
TOWN: **BRIDGEWATER**

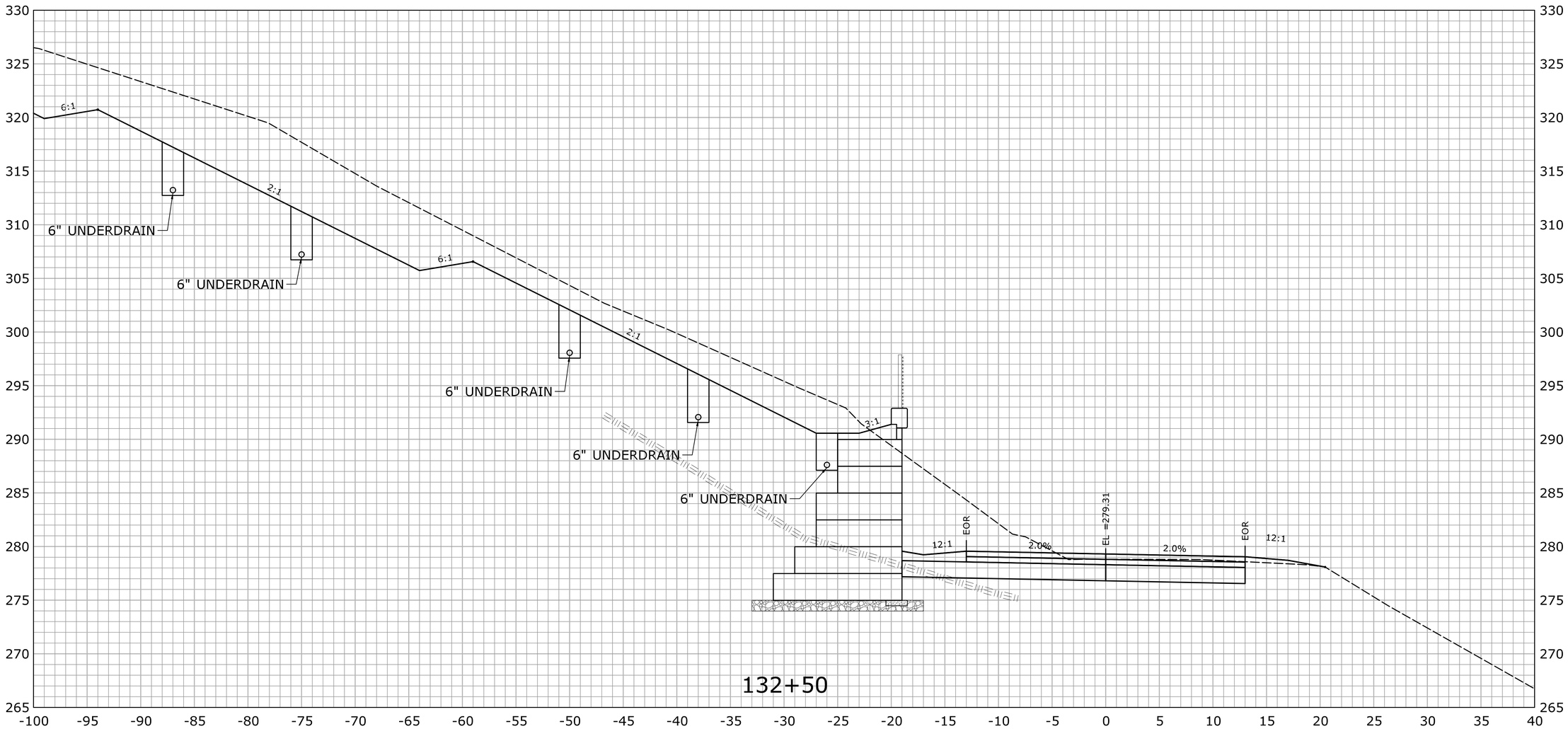
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-123**

SHEET NO. **03.170**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

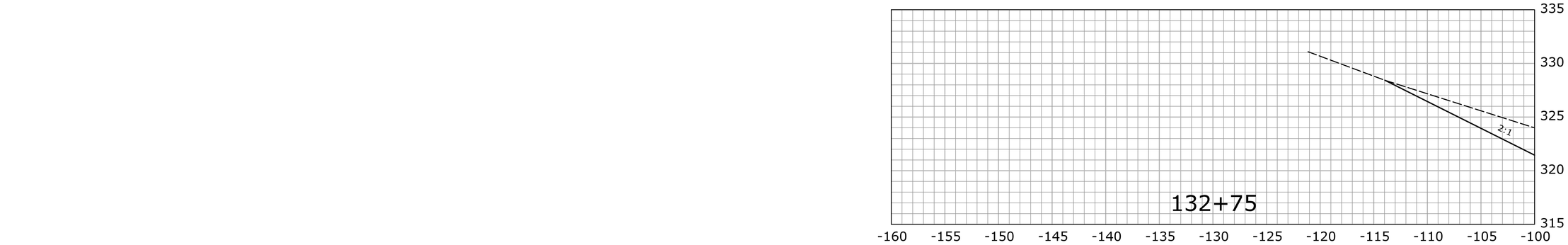
TOWN: **BRIDGEWATER**

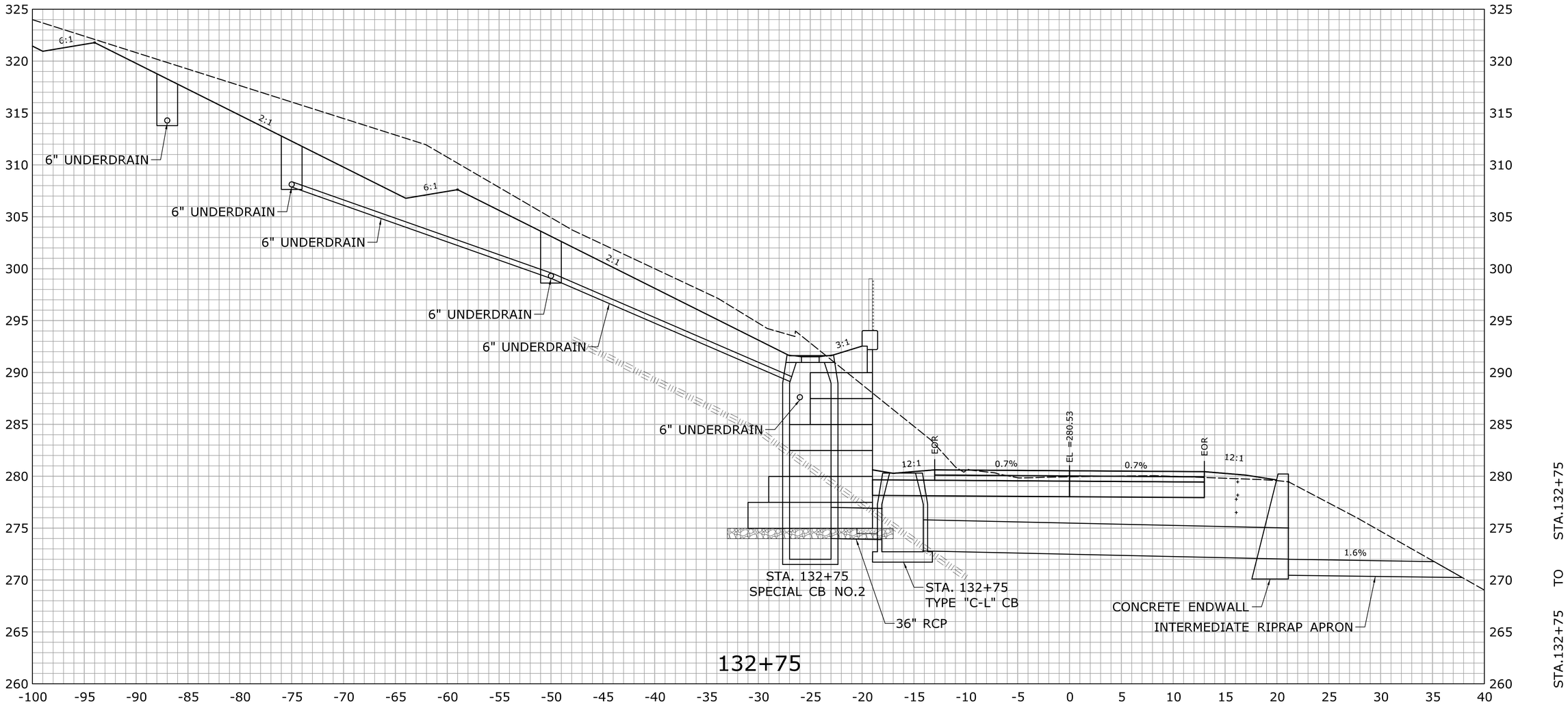
DRAWING TITLE:
CROSS SECTION ROUTE 133

PROJECT NO. **16-98**

DRAWING NO. **XSC-124**

SHEET NO. **03.171**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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CHECKED BY: **JDP**

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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OFFICE OF ENGINEERING
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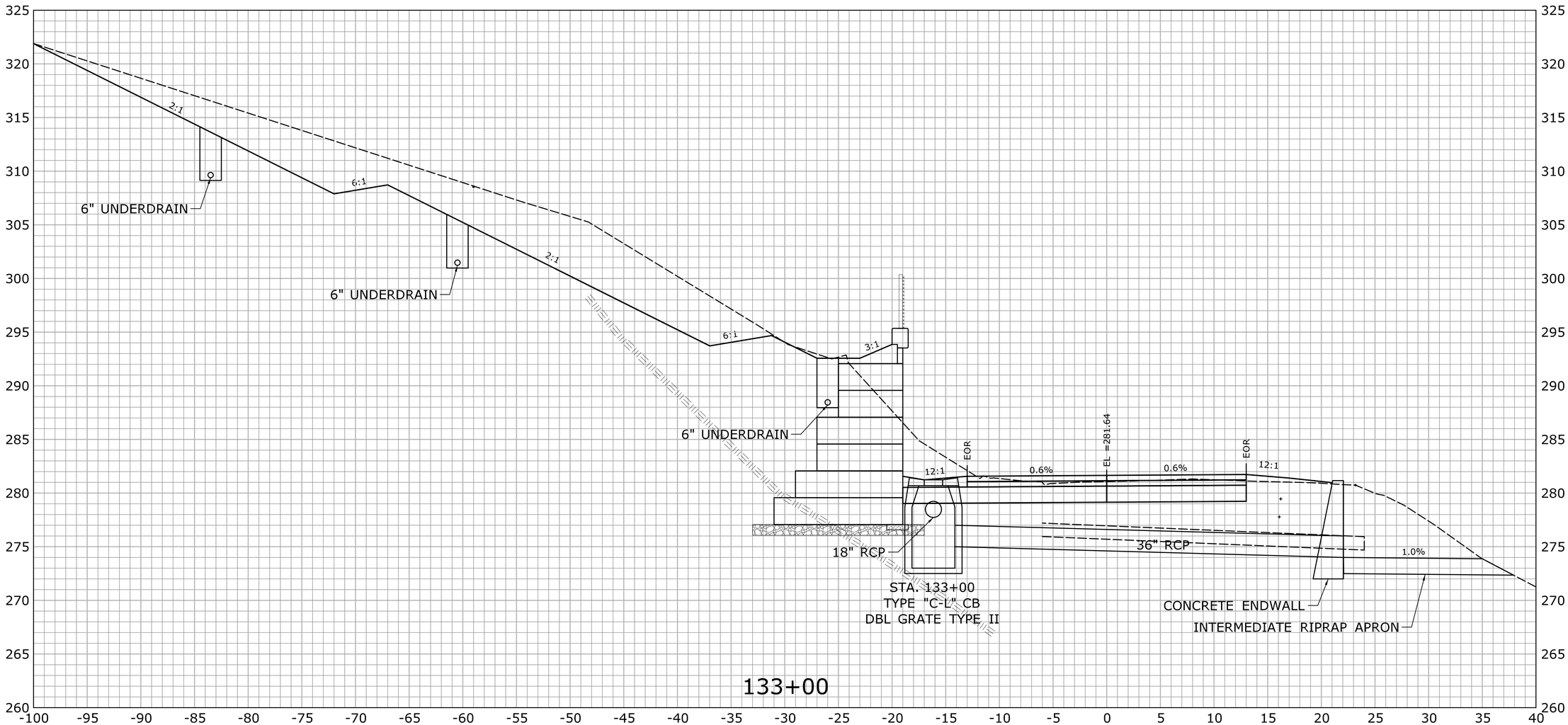
PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**
DRAWING NO. **XSC-125**
SHEET NO. **03.172**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

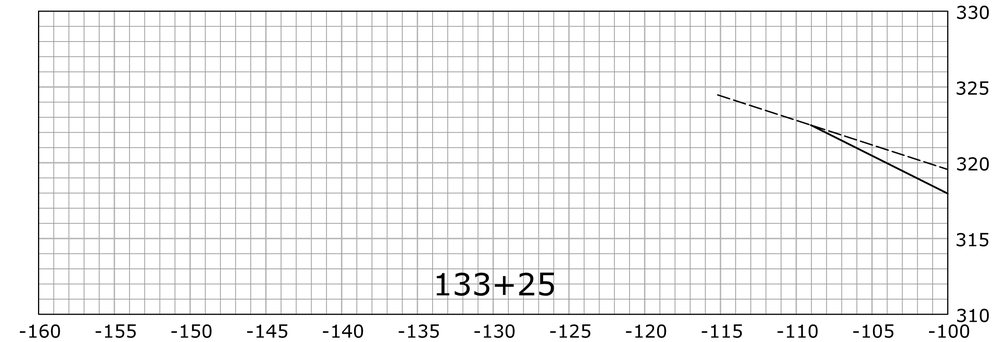
TOWN: **BRIDGEWATER**

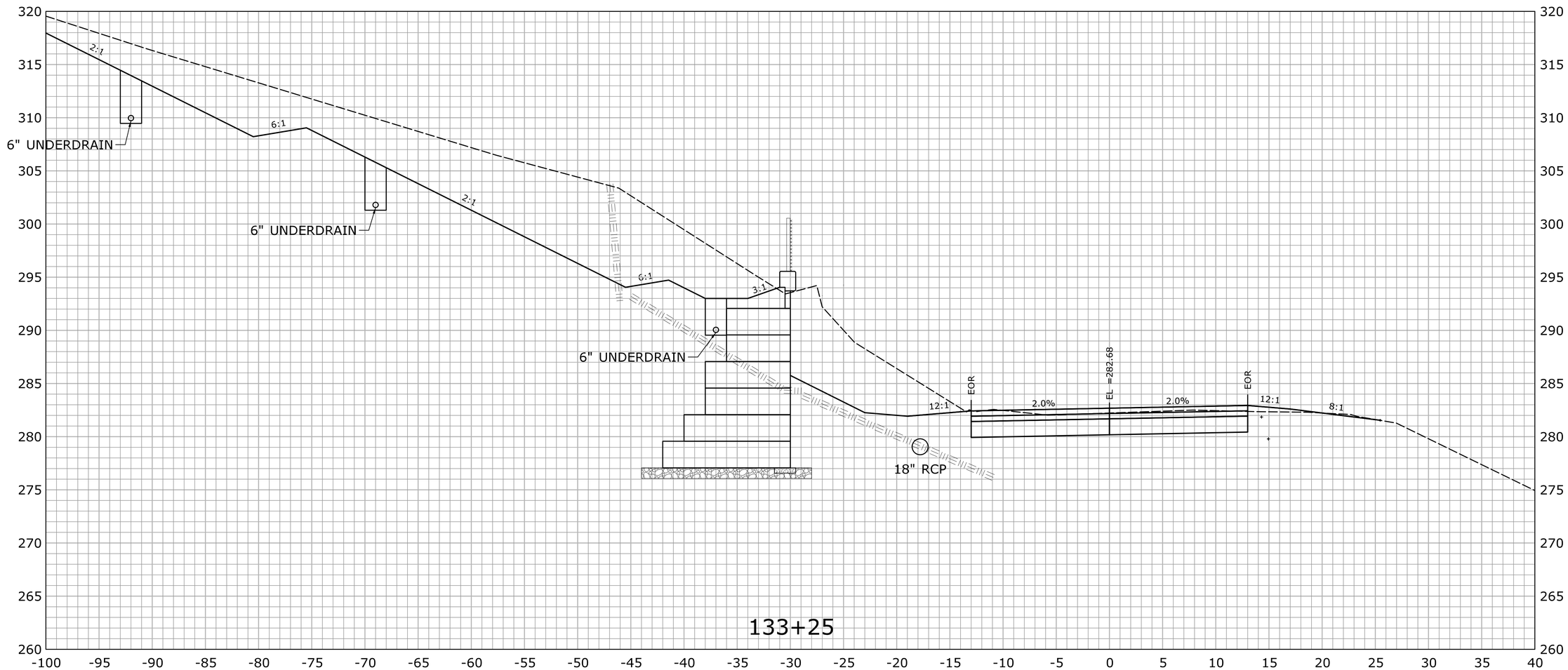
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-126**

SHEET NO. **03.173**





STA.133+25 TO STA.133+25

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

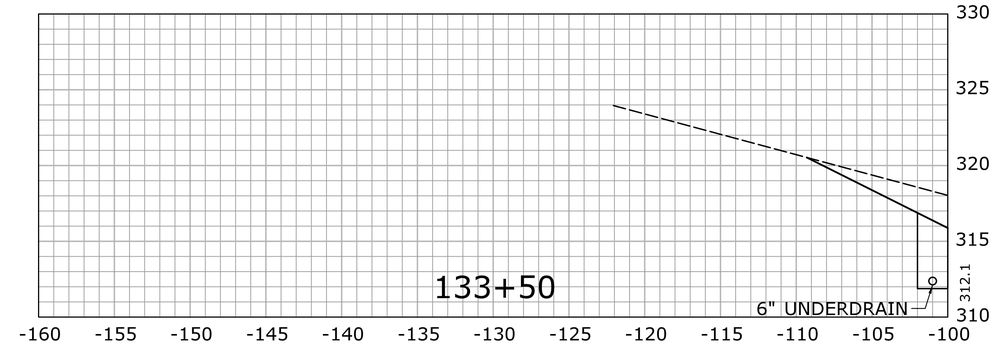
TOWN: **BRIDGEWATER**

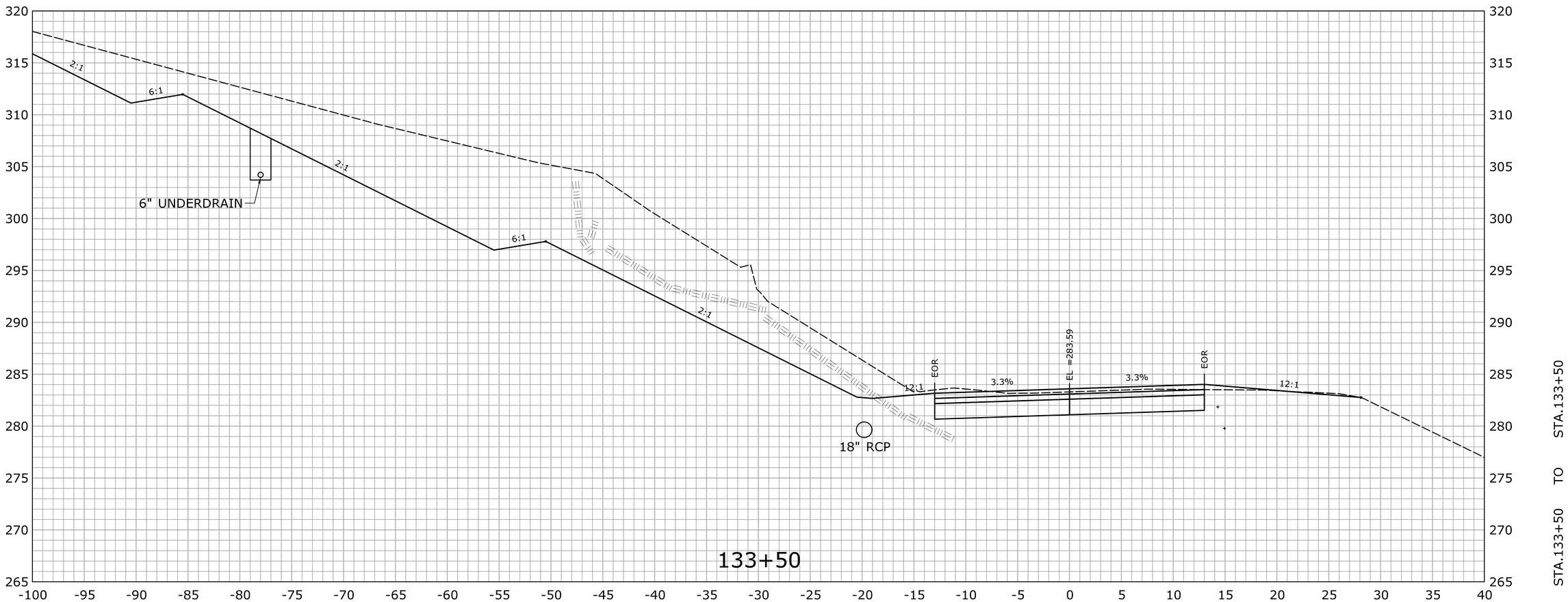
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-127**

SHEET NO. **03.174**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

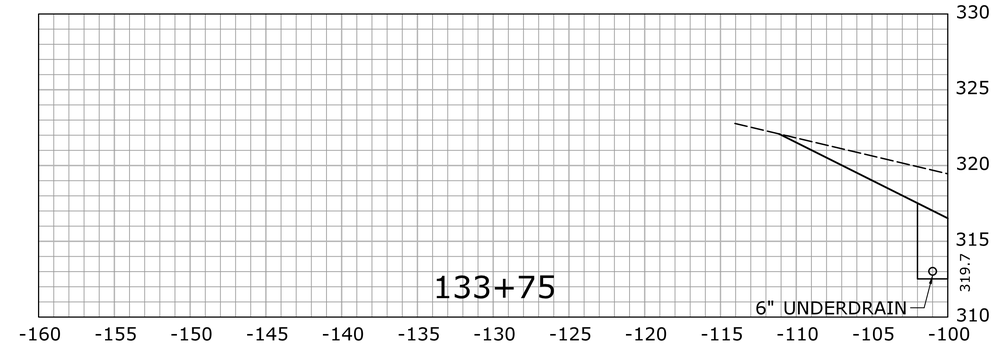
TOWN: **BRIDGEWATER**

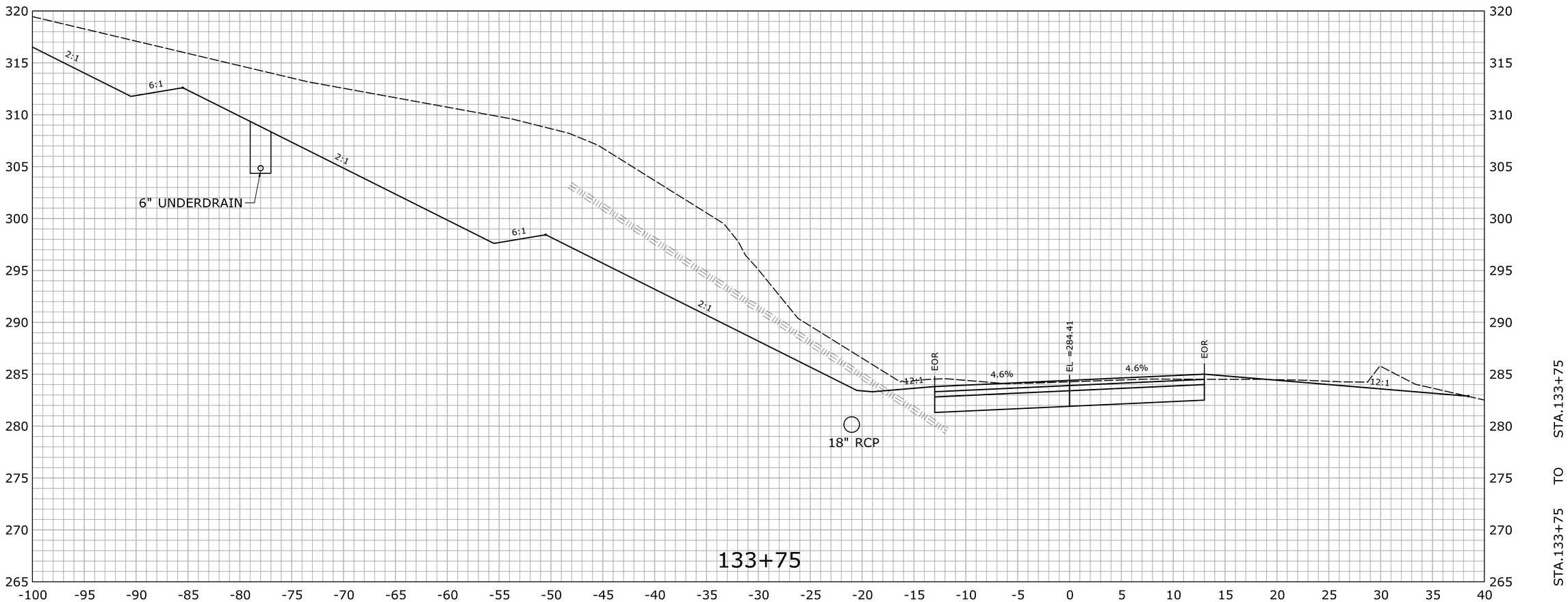
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-128**

SHEET NO. **03.175**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

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SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

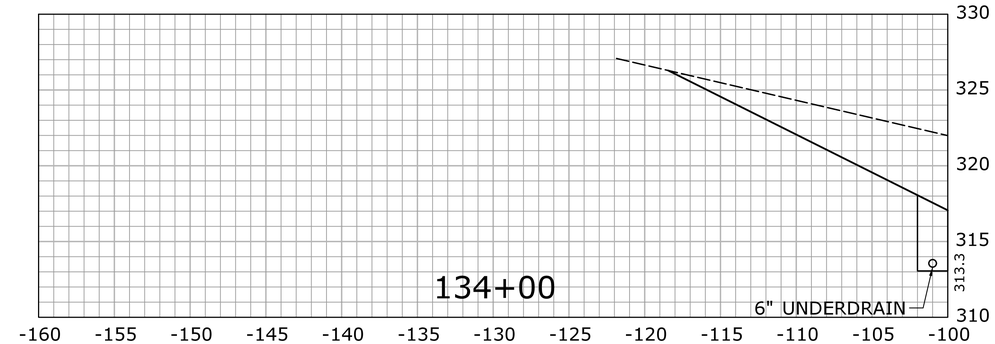
TOWN: **BRIDGEWATER**

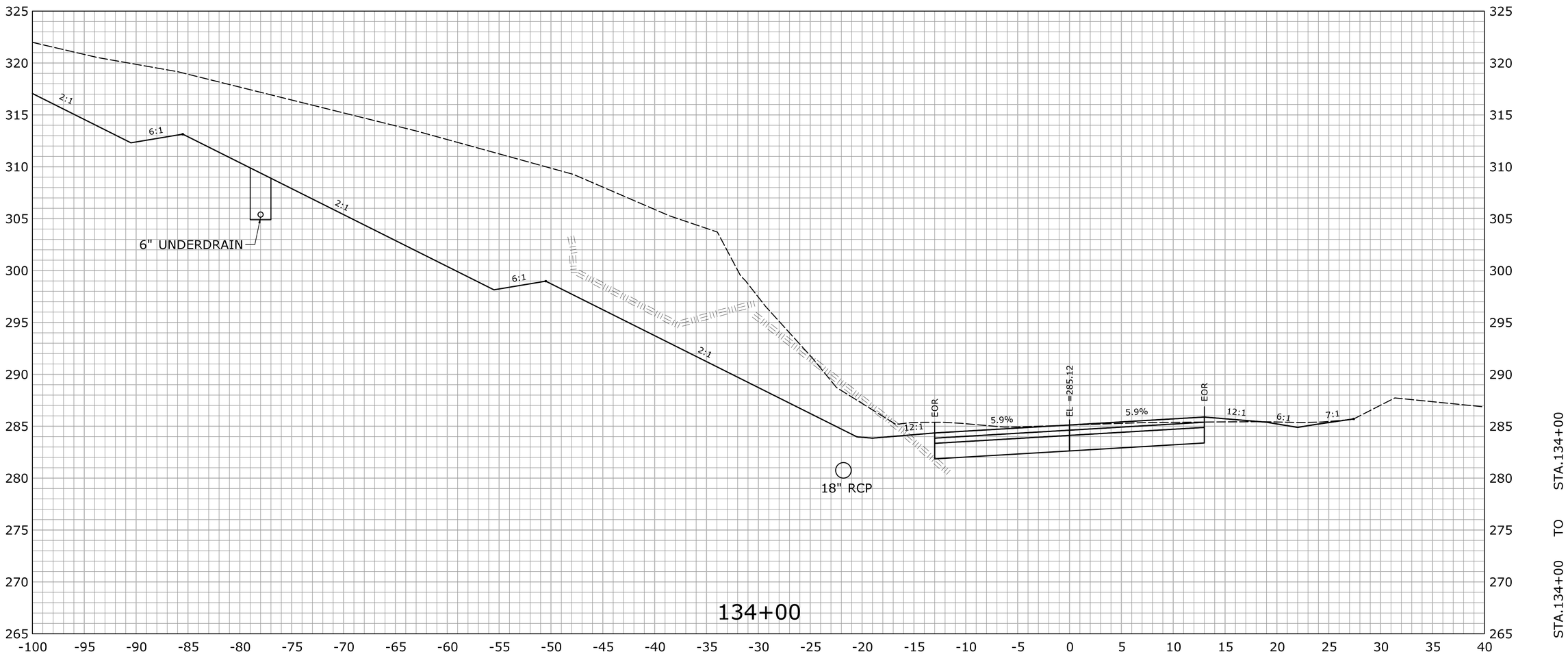
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-129**

SHEET NO. **03.176**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

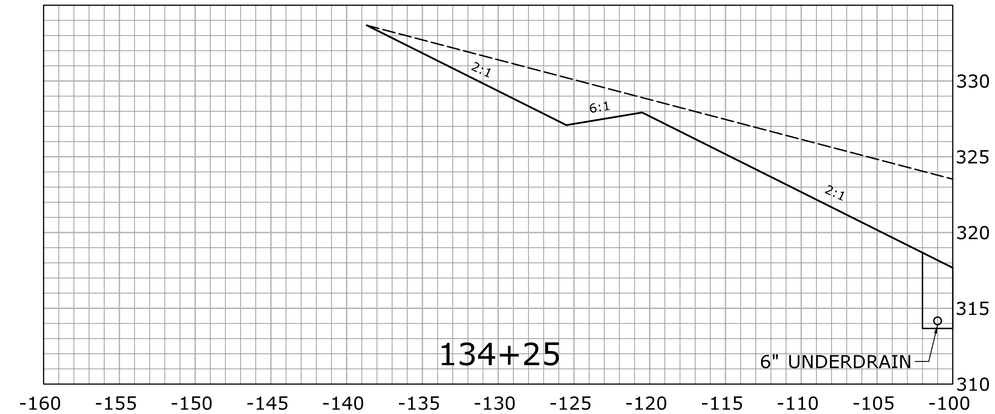
TOWN: **BRIDGEWATER**

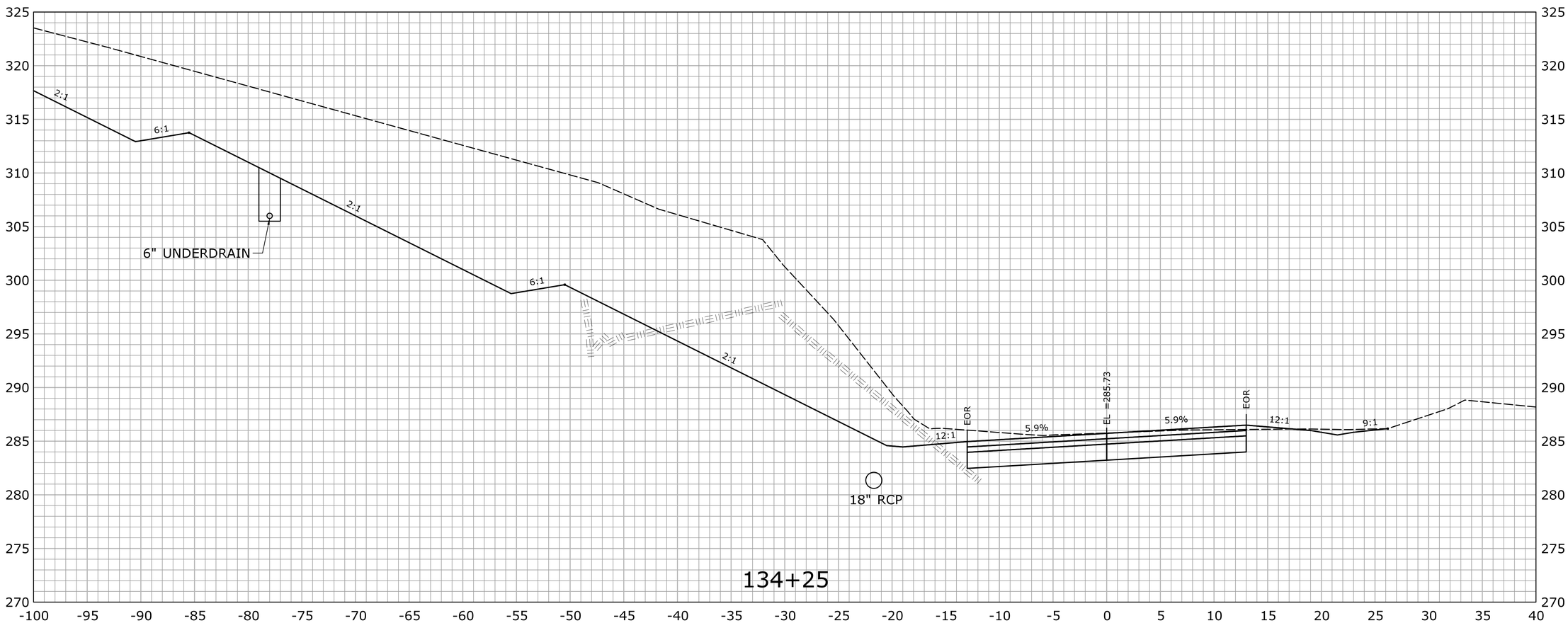
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-130**

SHEET NO. **03.177**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

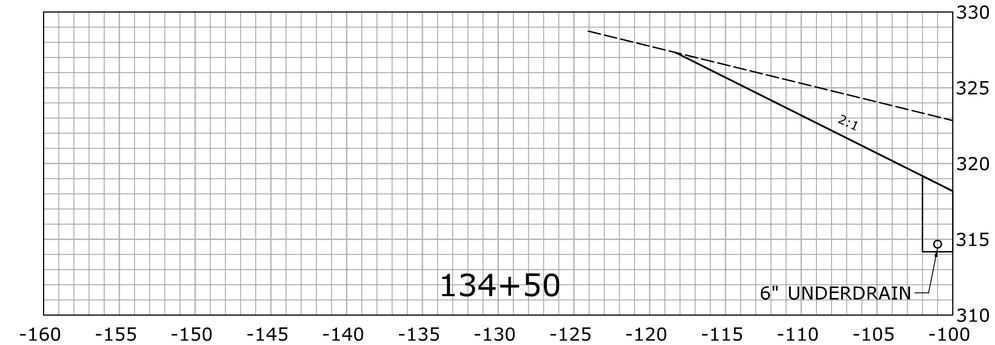
TOWN: **BRIDGEWATER**

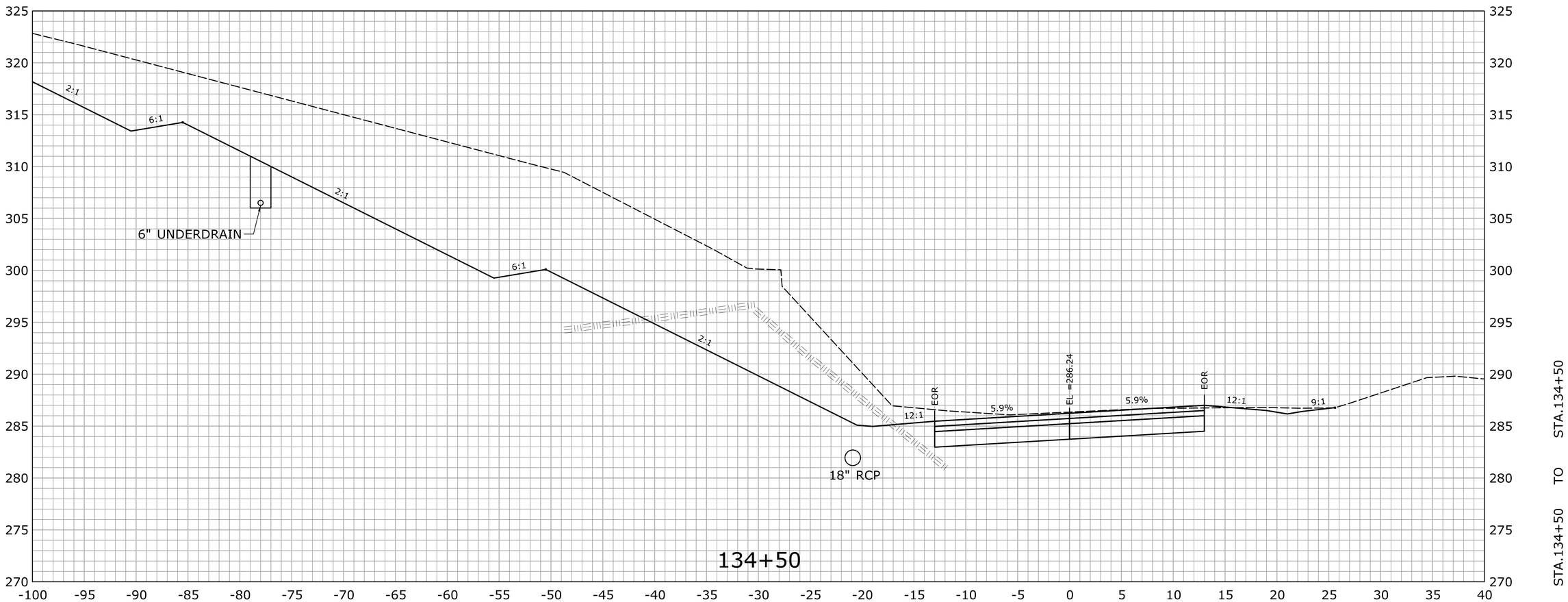
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-131**

SHEET NO. **03.178**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

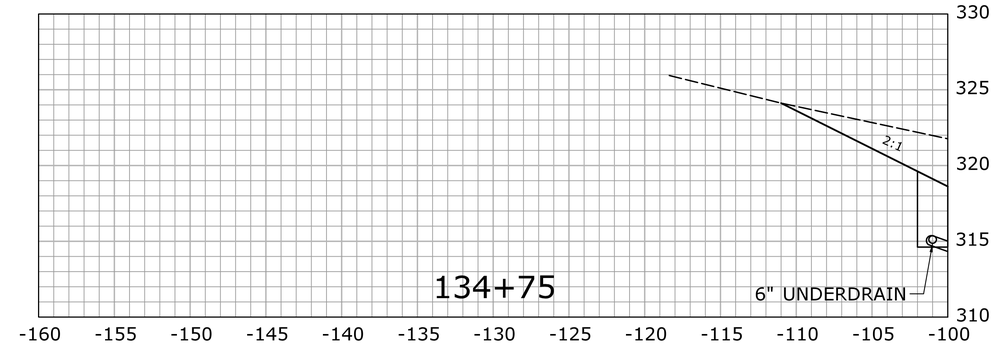
TOWN: **BRIDGEWATER**

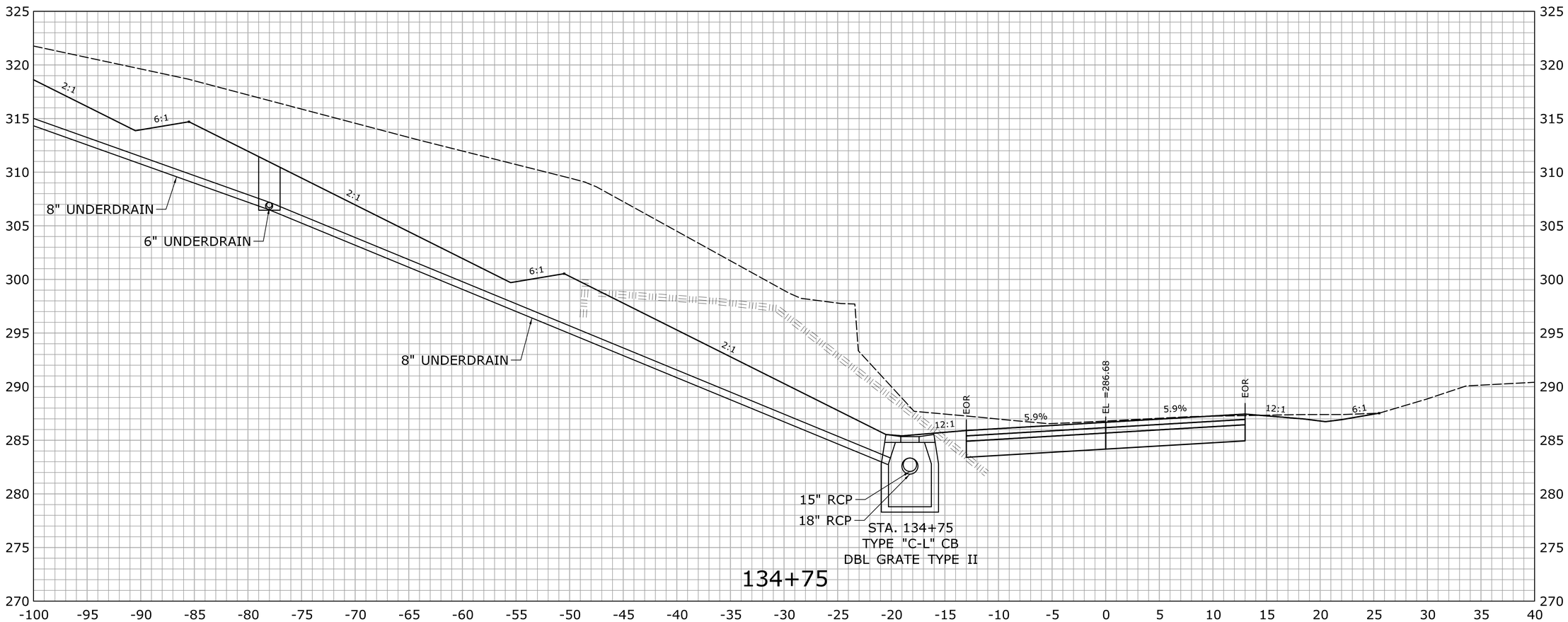
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-132**

SHEET NO. **03.179**





STA.134+75 TO STA.134+75

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

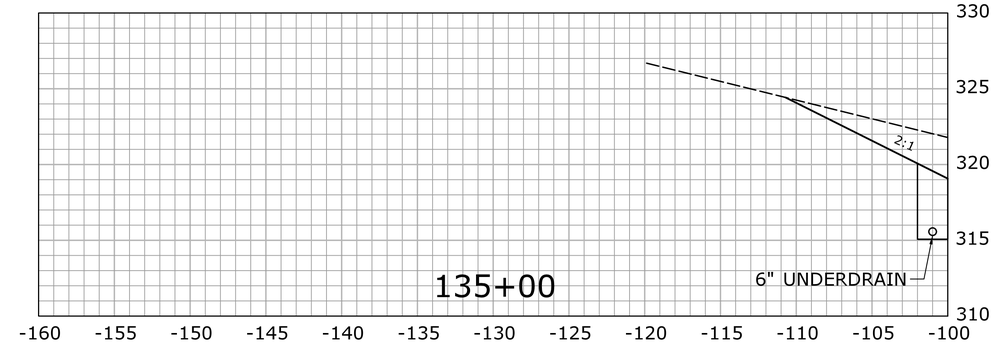
TOWN: **BRIDGEWATER**

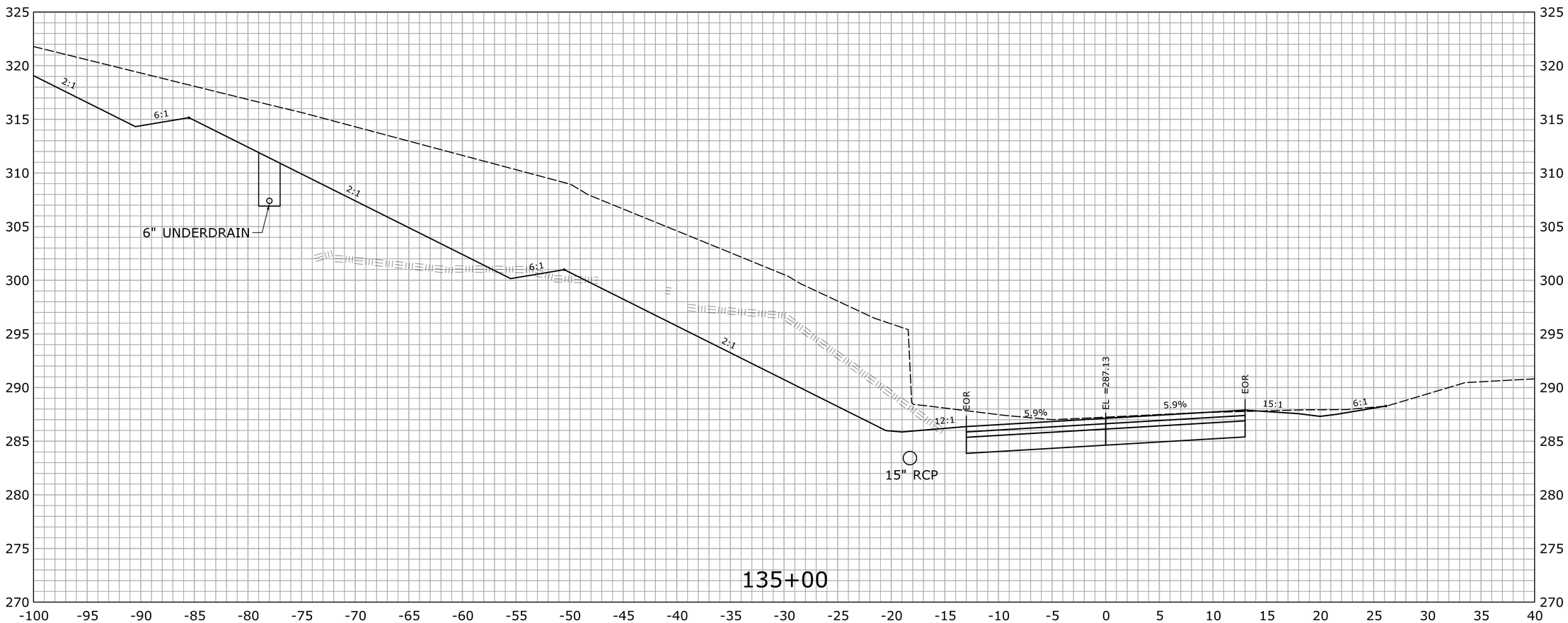
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-133**

SHEET NO. **03.180**





STA.135+00 TO STA.135+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

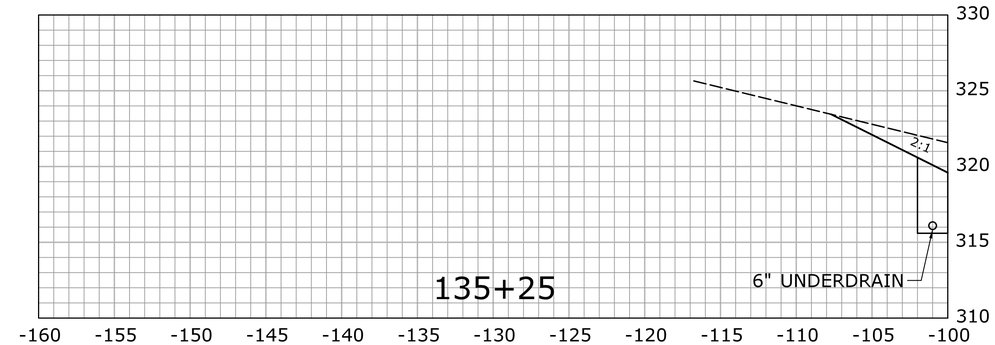
TOWN: **BRIDGEWATER**

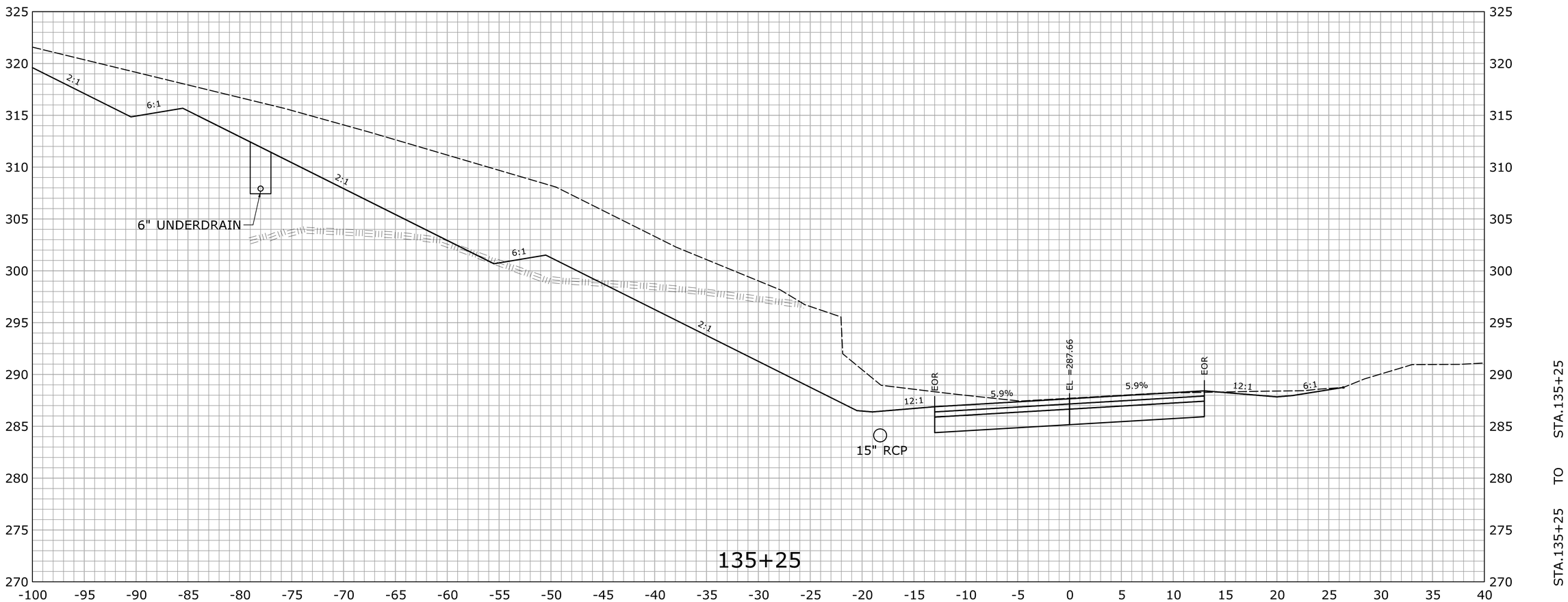
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-134**

SHEET NO. **03.181**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

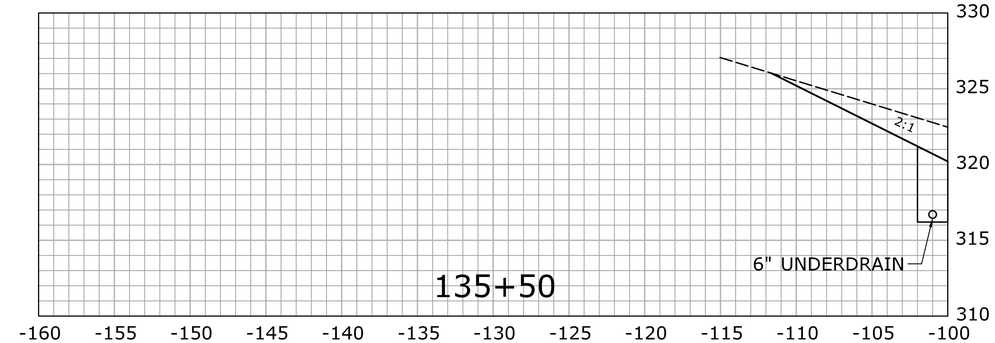
TOWN: **BRIDGEWATER**

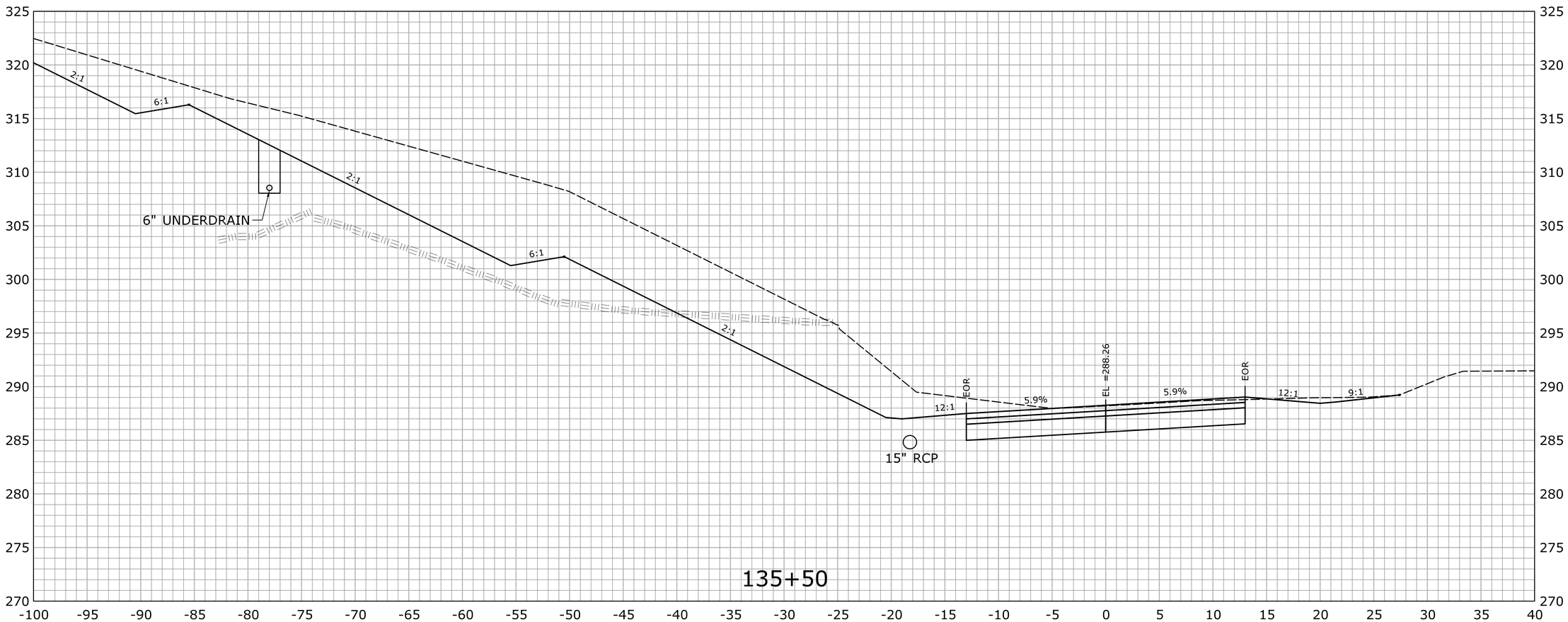
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-135**

SHEET NO. **03.182**





STA.135+50 TO STA.135+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

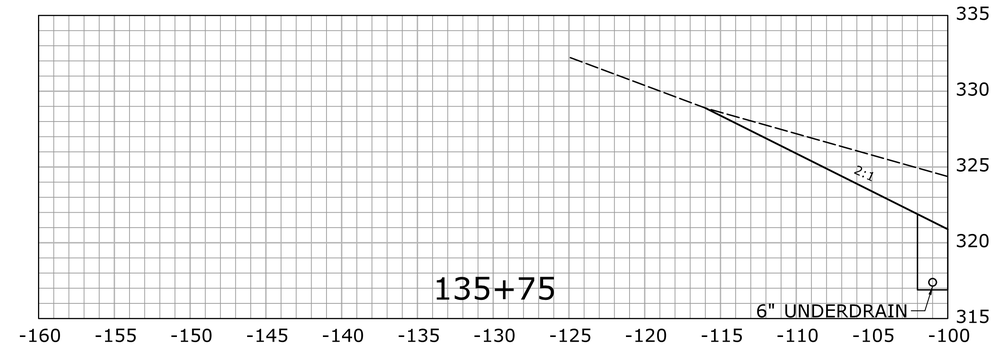
TOWN: **BRIDGEWATER**

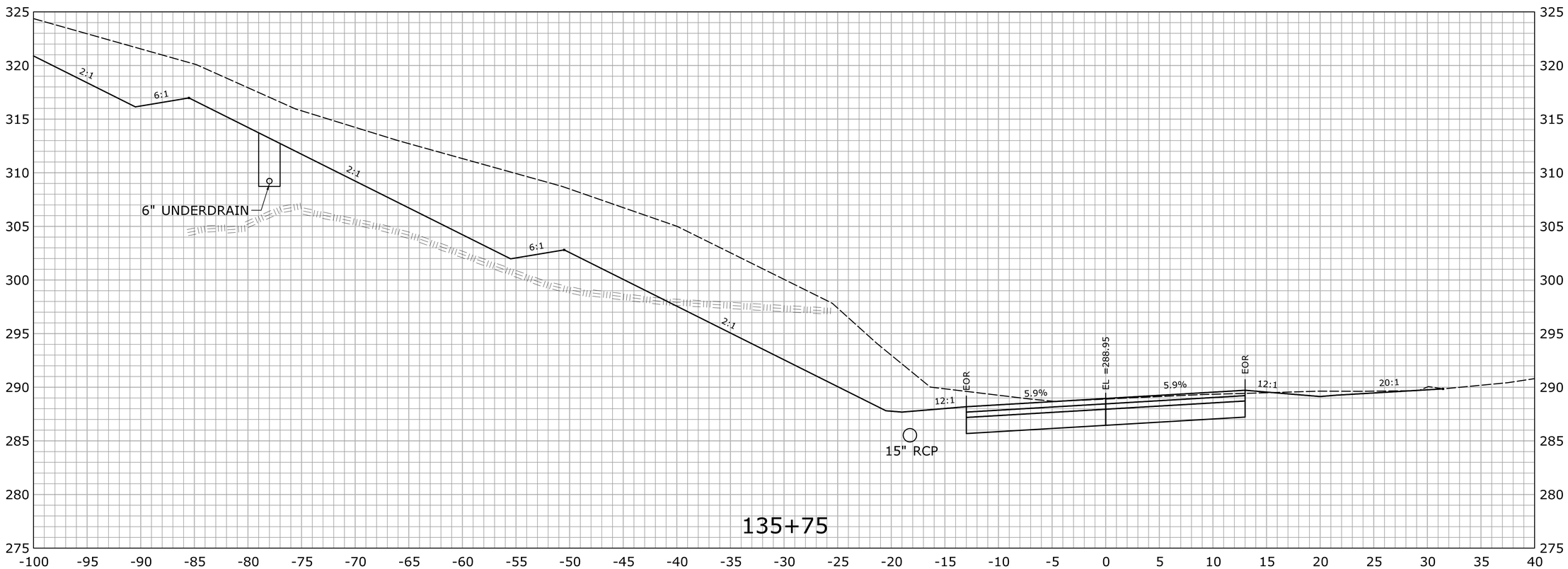
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-136**

SHEET NO. **03.183**





STA.135+75 TO STA.135+75

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

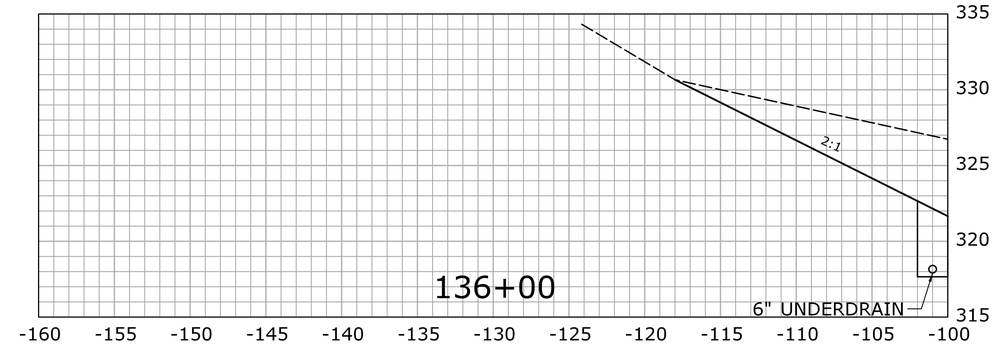
TOWN: **BRIDGEWATER**

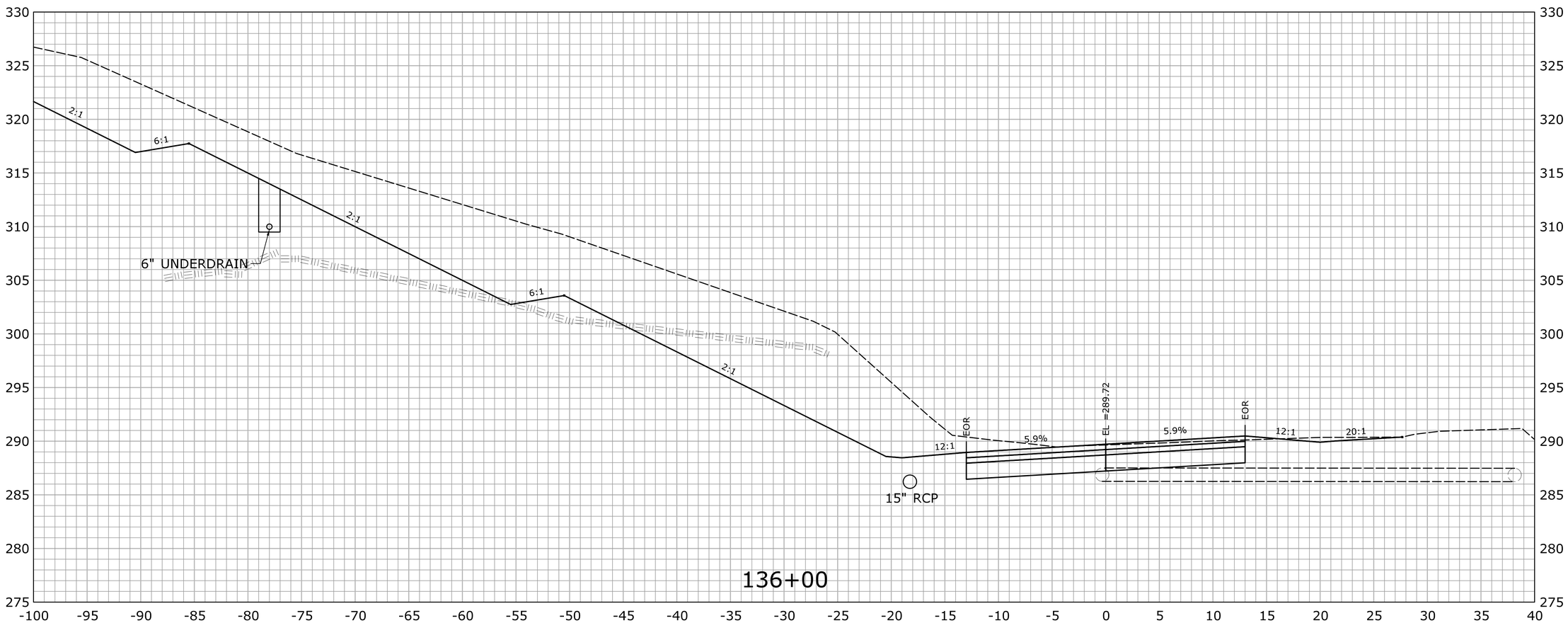
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-137**

SHEET NO. **03.184**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

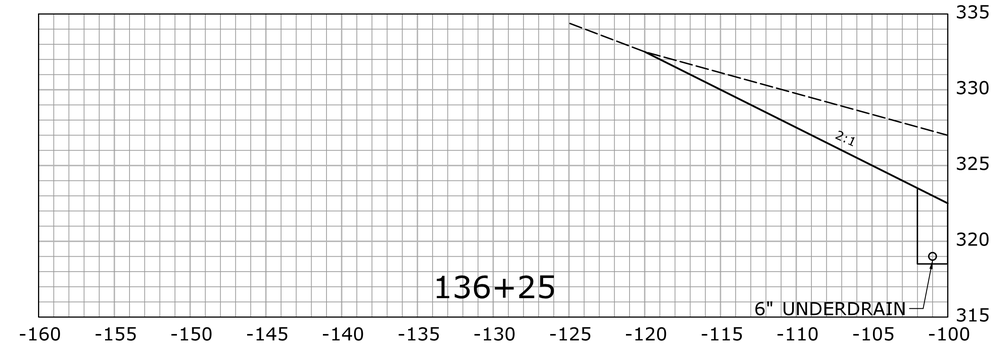
TOWN: **BRIDGEWATER**

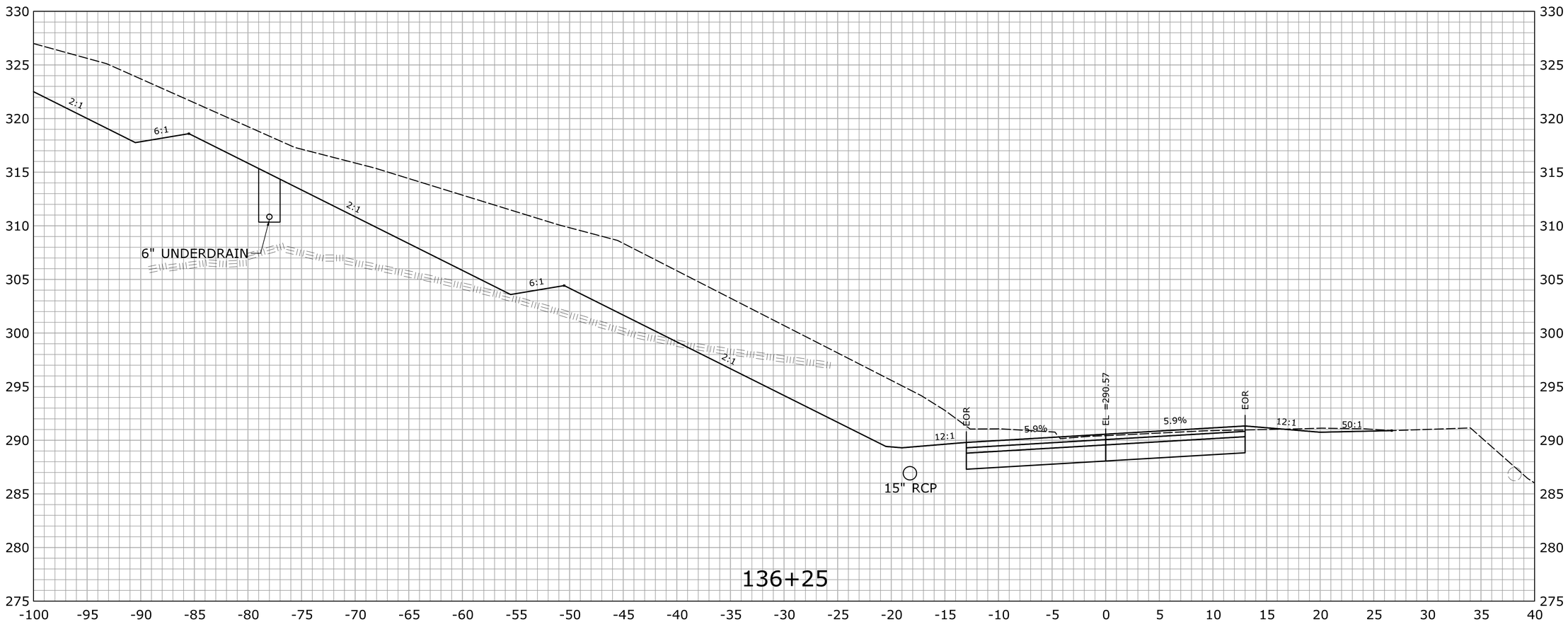
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-138**

SHEET NO. **03.185**





STA.136+25 TO STA.136+25

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

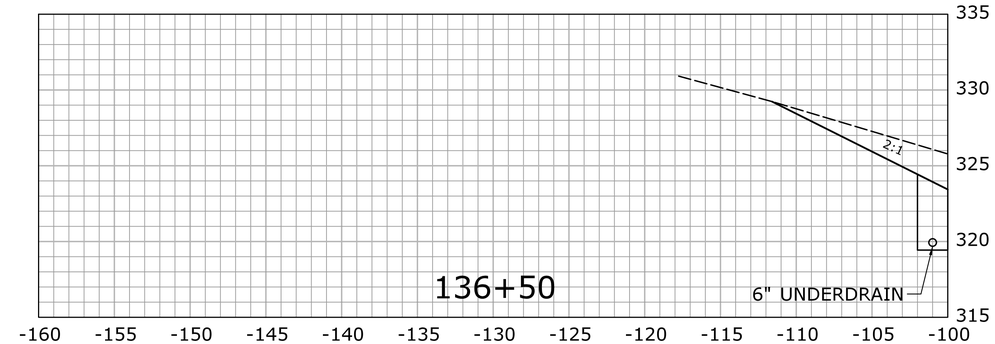
TOWN: **BRIDGEWATER**

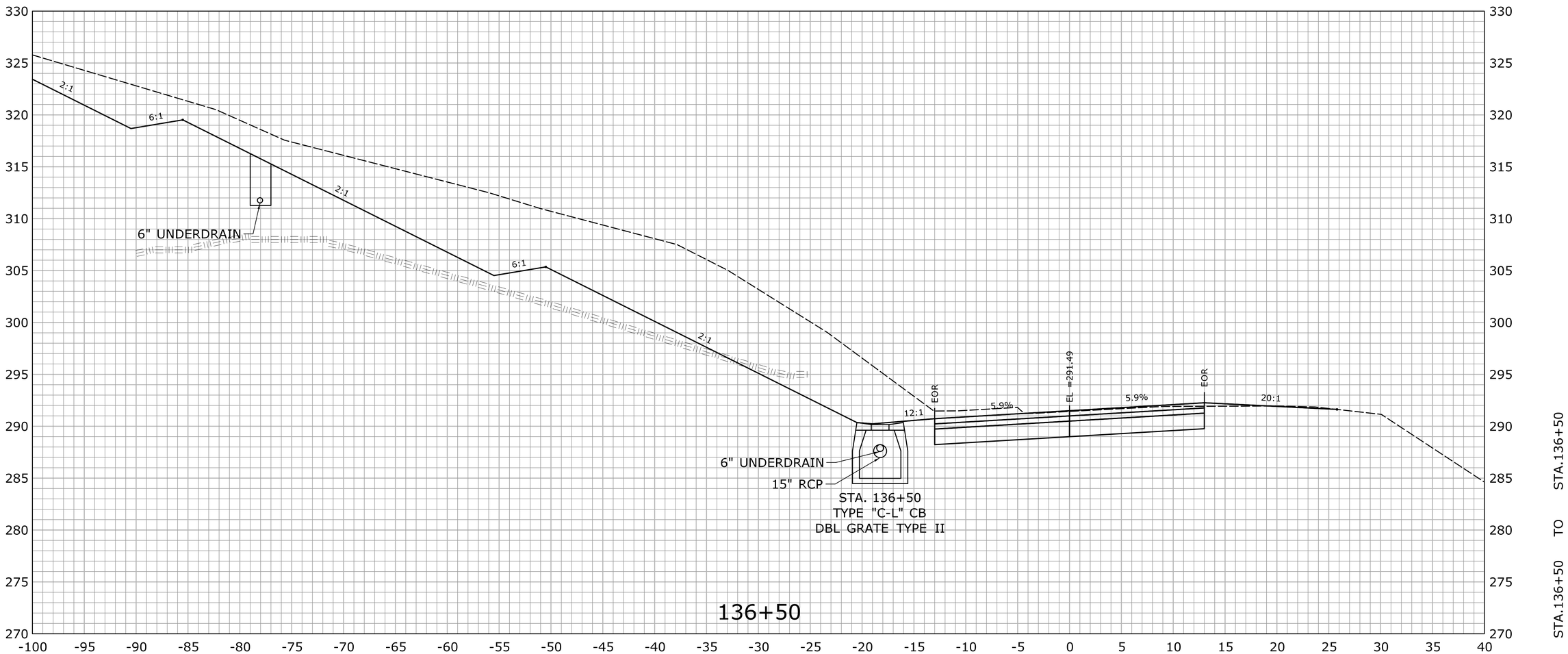
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-139**

SHEET NO. **03.186**





STA.136+50 TO STA.136+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

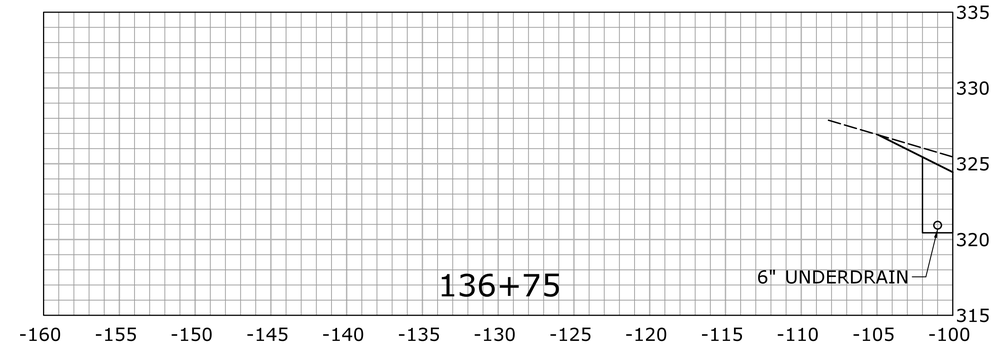
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

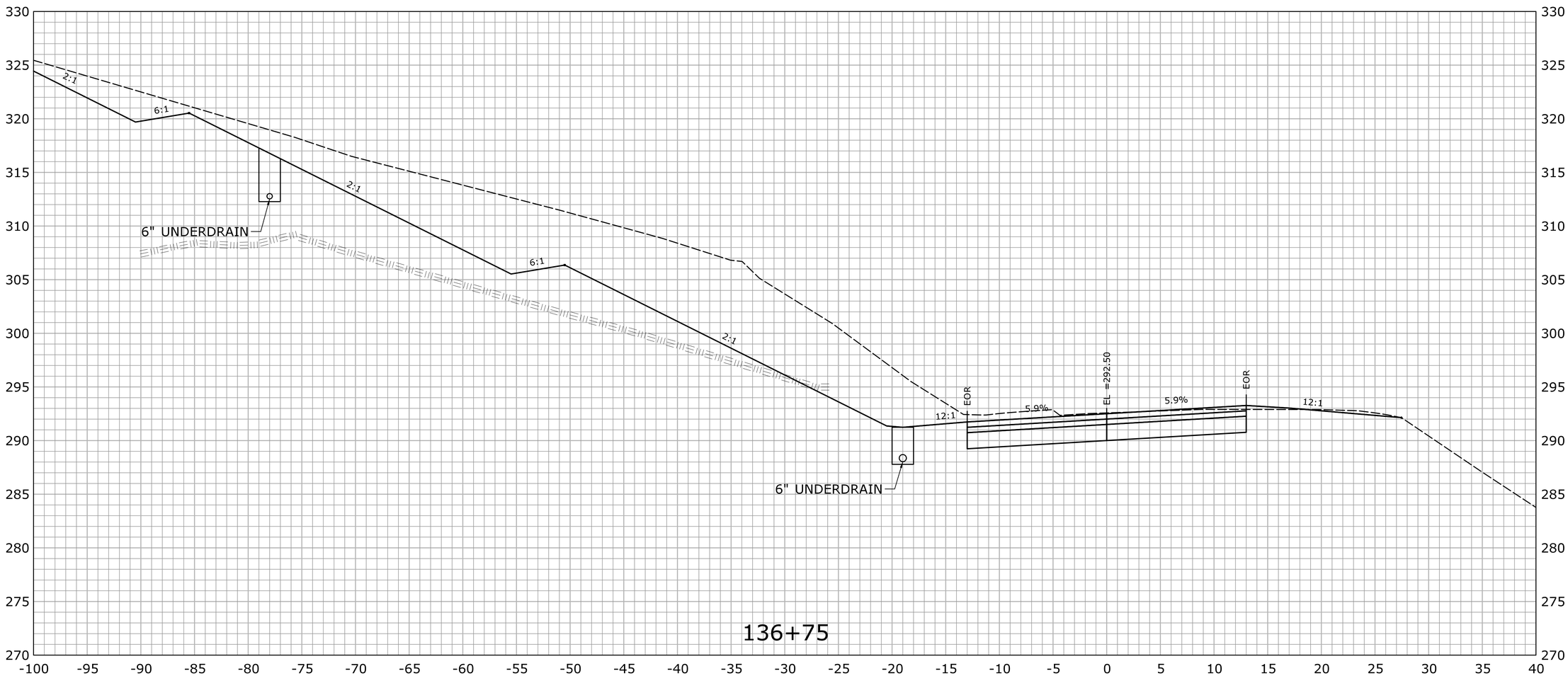
PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE:
CROSS SECTION ROUTE 133

PROJECT NO. **16-98**
DRAWING NO. **XSC-140**
SHEET NO. **03.187**





STA.136+75 TO STA.136+75

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

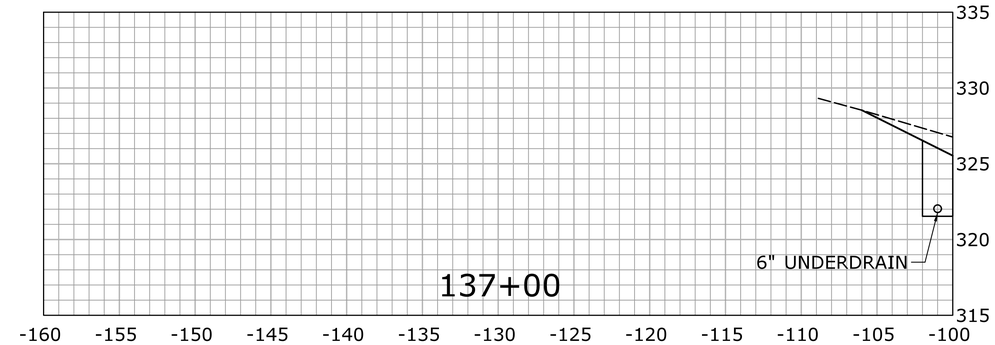
TOWN: **BRIDGEWATER**

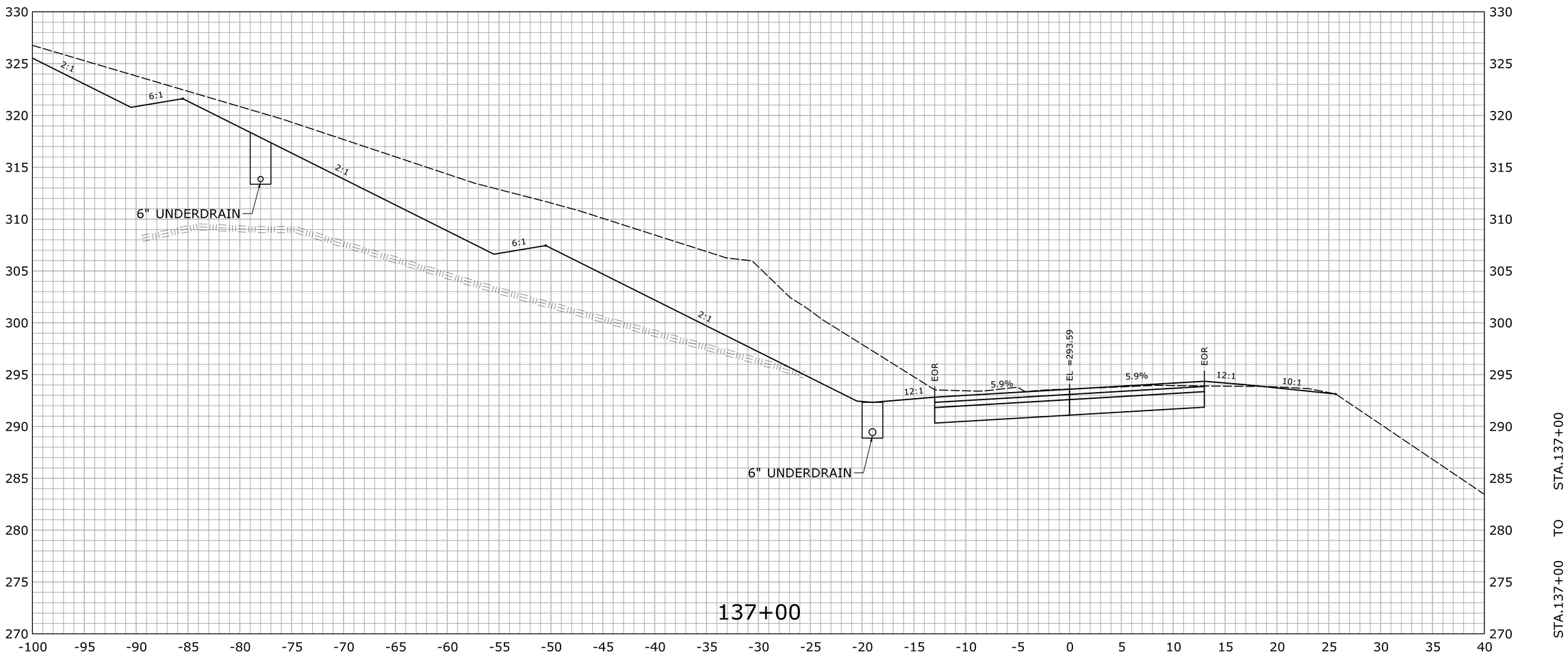
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-141**

SHEET NO. **03.188**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

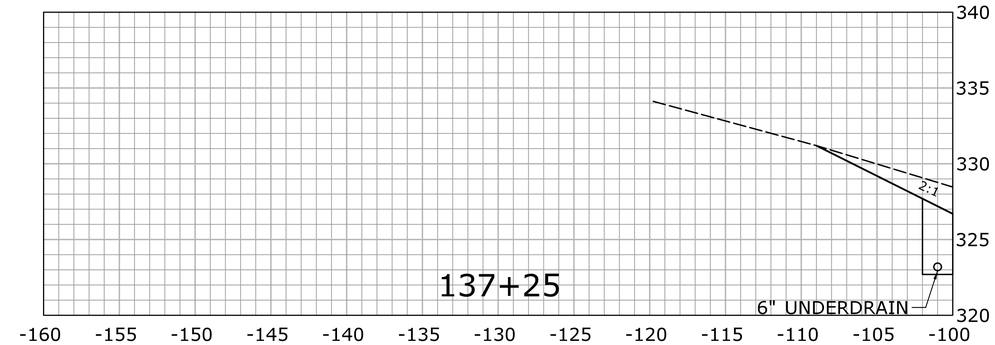
TOWN: **BRIDGEWATER**

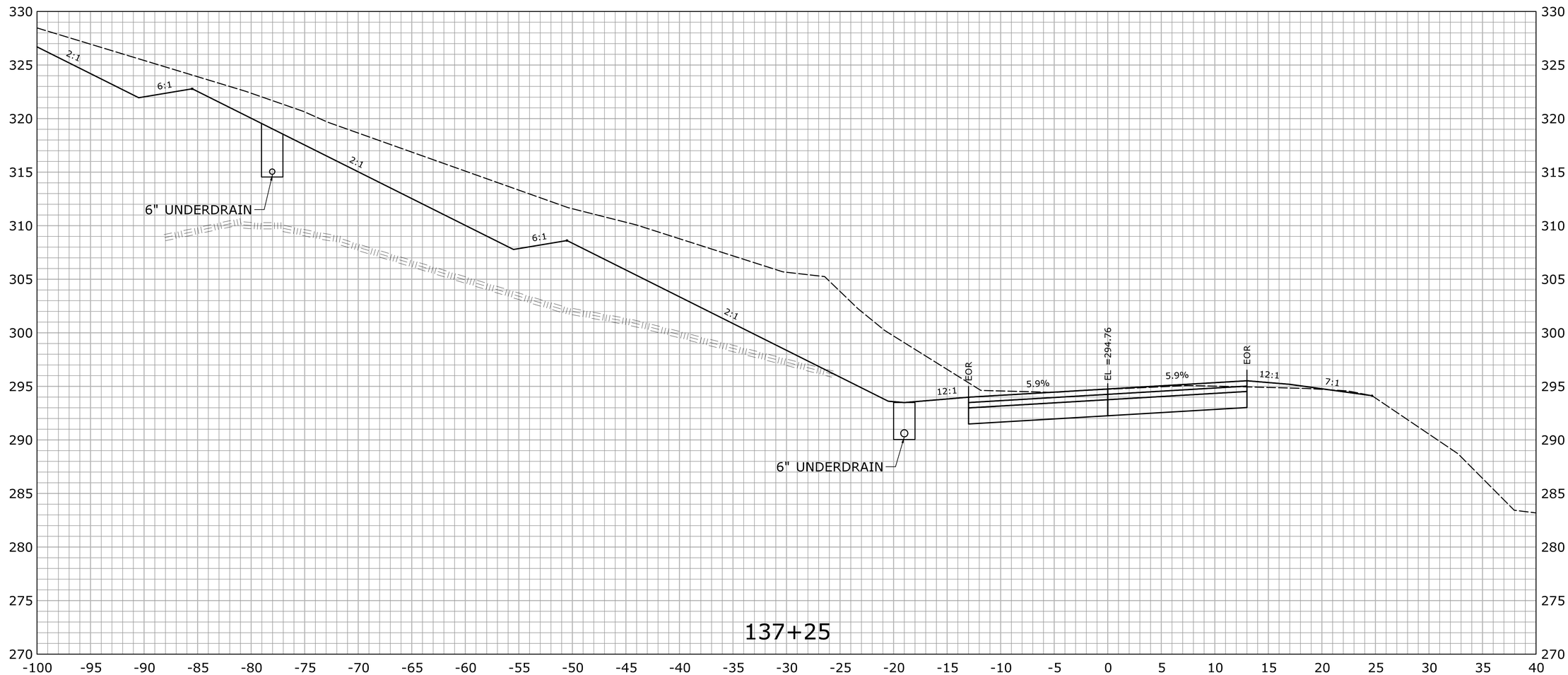
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-142**

SHEET NO. **03.189**





STA.137+25 TO STA.137+25

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

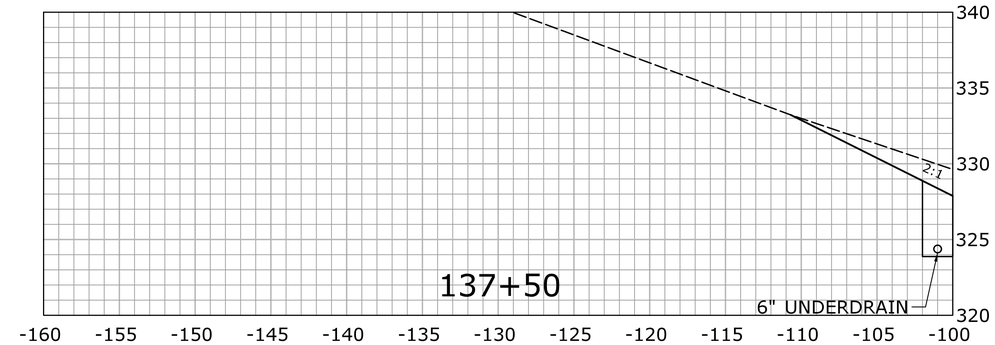
TOWN: **BRIDGEWATER**

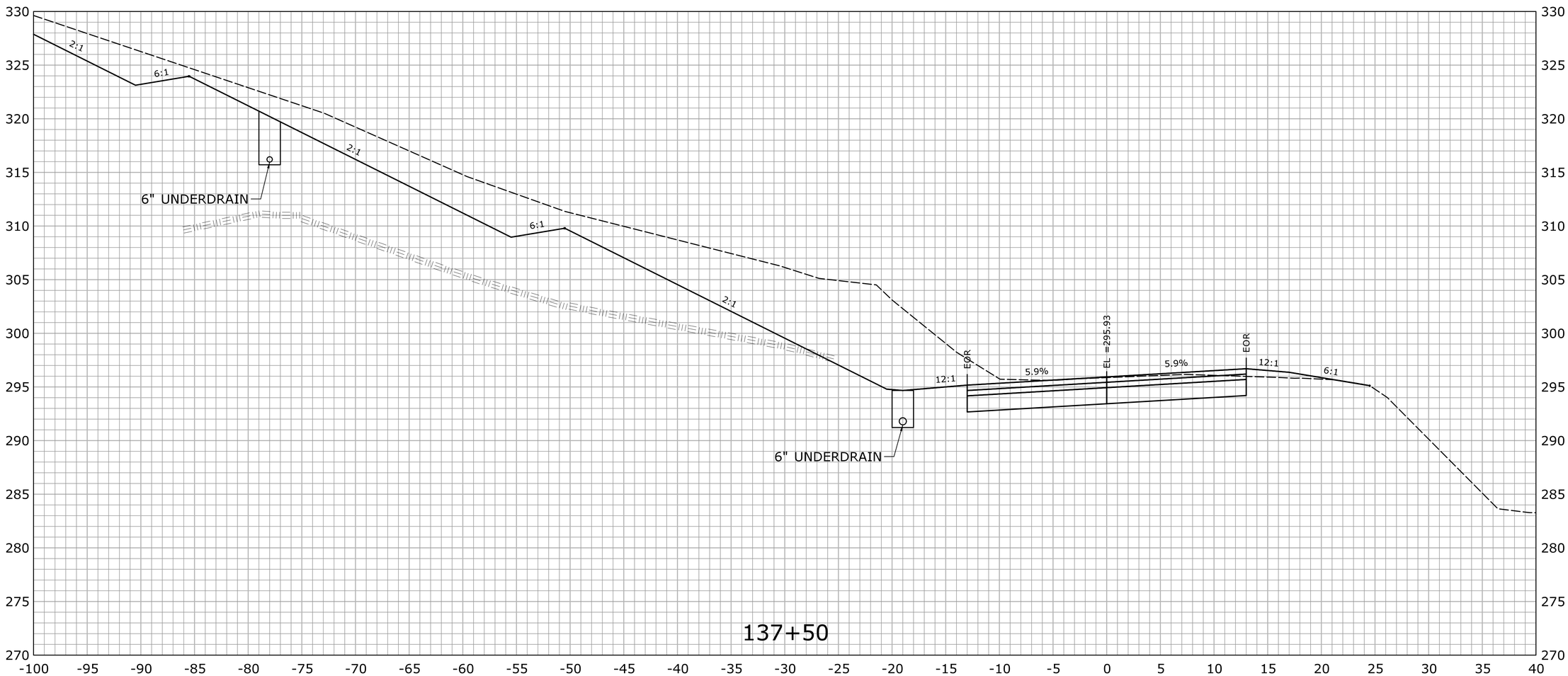
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-143**

SHEET NO. **03.190**





STA.137+50 TO STA.137+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

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SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

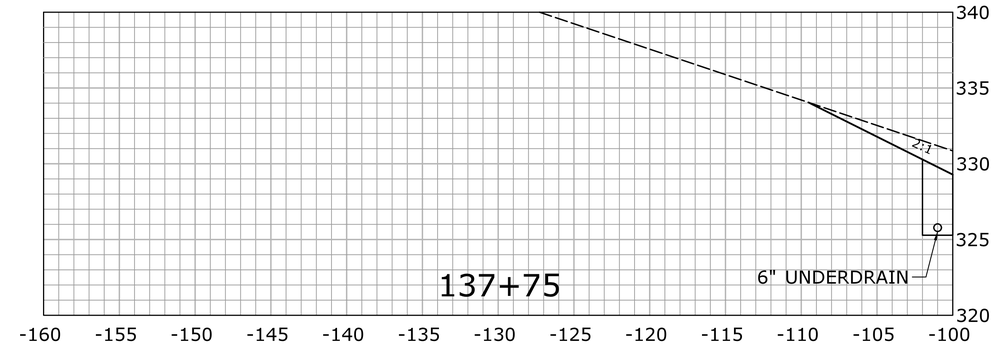
TOWN: **BRIDGEWATER**

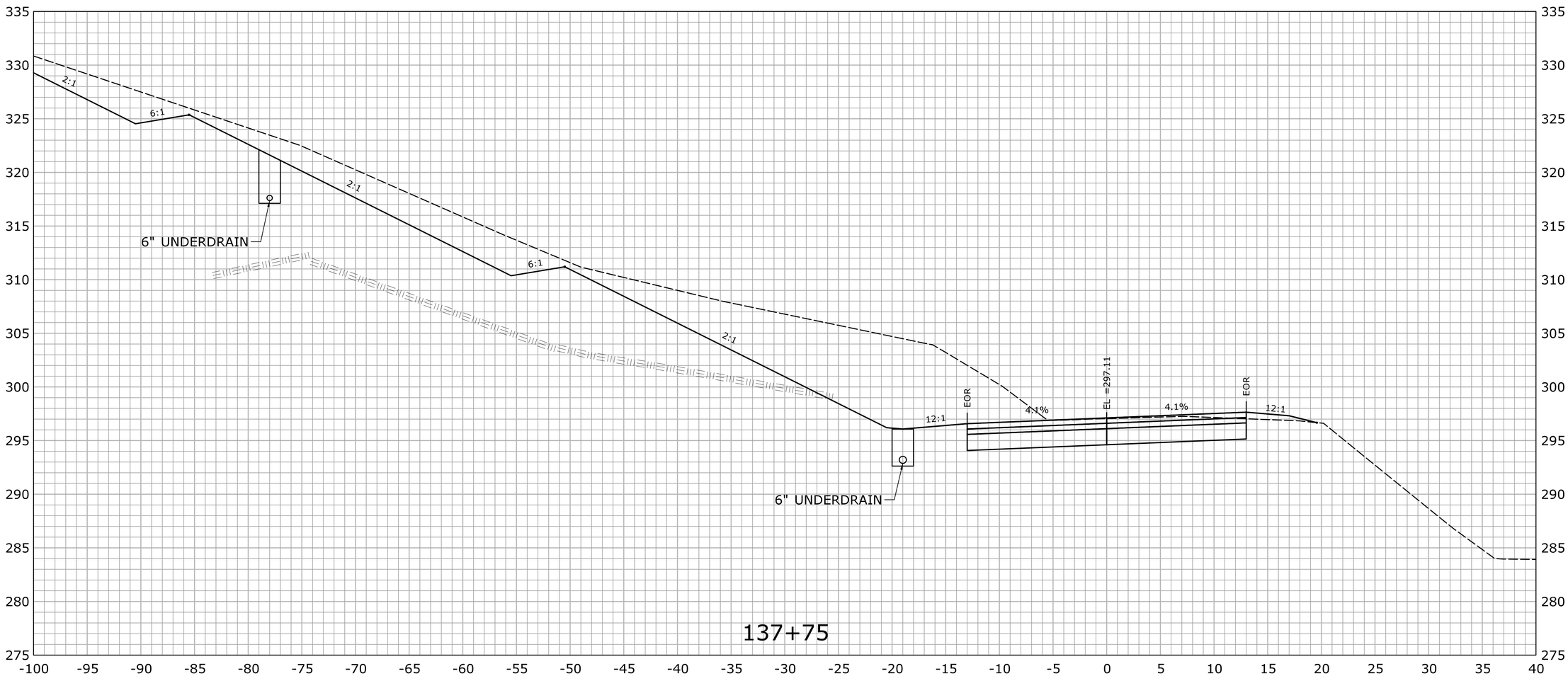
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-144**

SHEET NO. **03.191**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

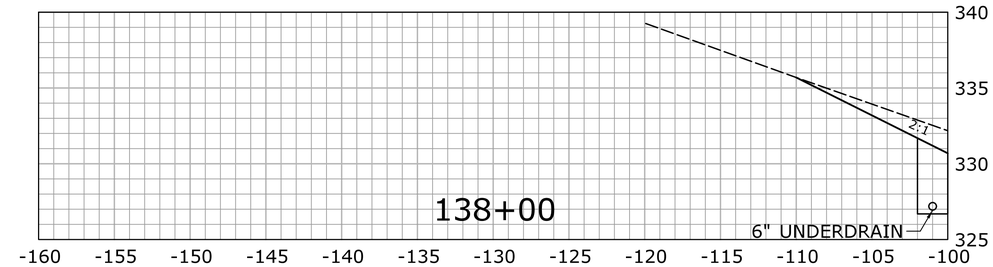
TOWN: **BRIDGEWATER**

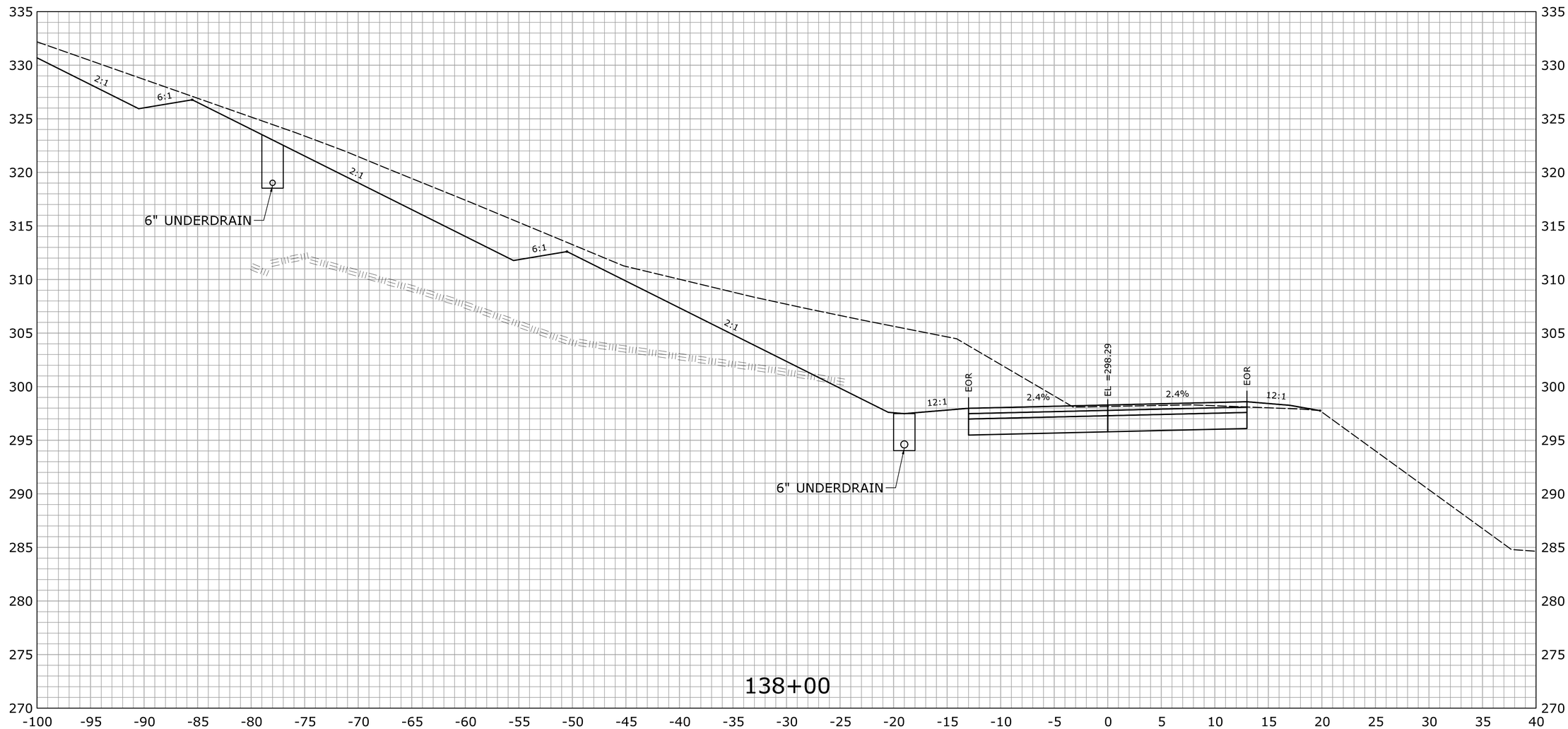
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-145**

SHEET NO. **03.192**





STA.138+00 TO STA.138+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

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SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

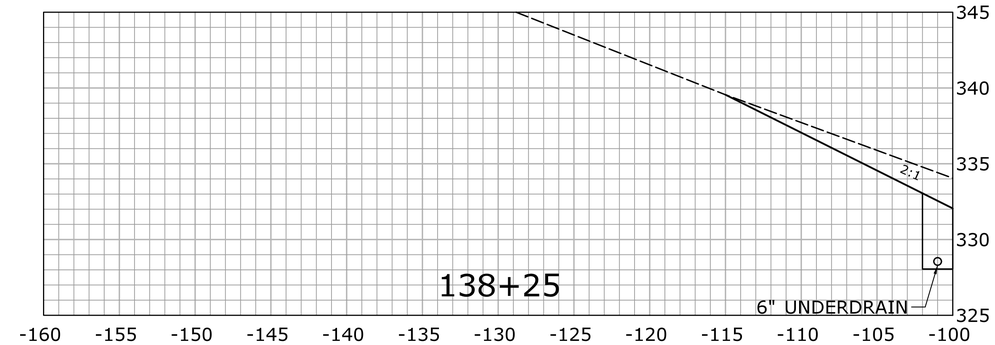
TOWN: **BRIDGEWATER**

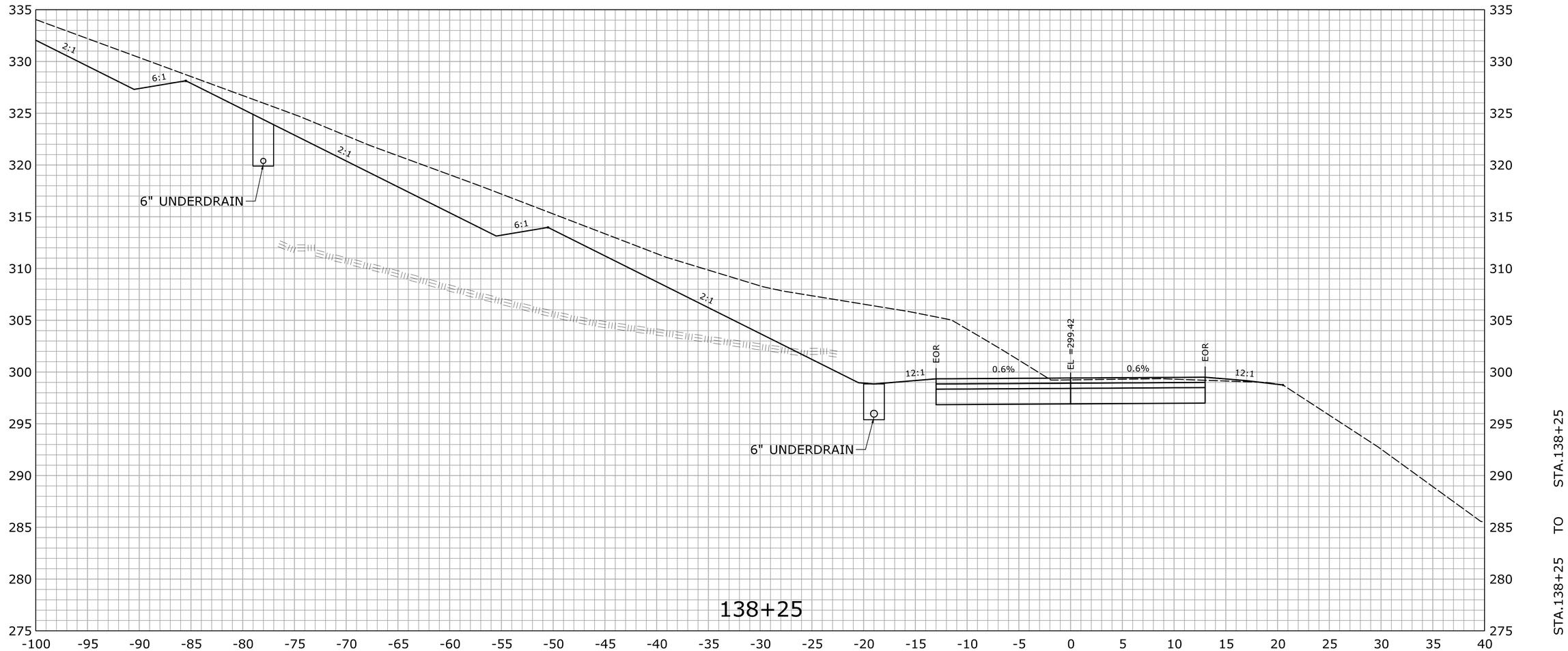
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-146**

SHEET NO. **03.193**





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

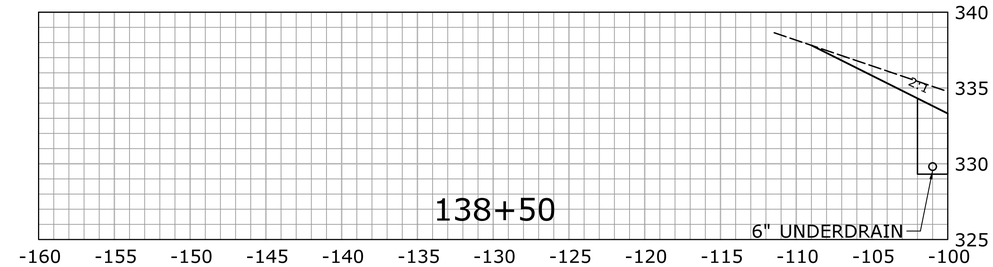
TOWN: **BRIDGEWATER**

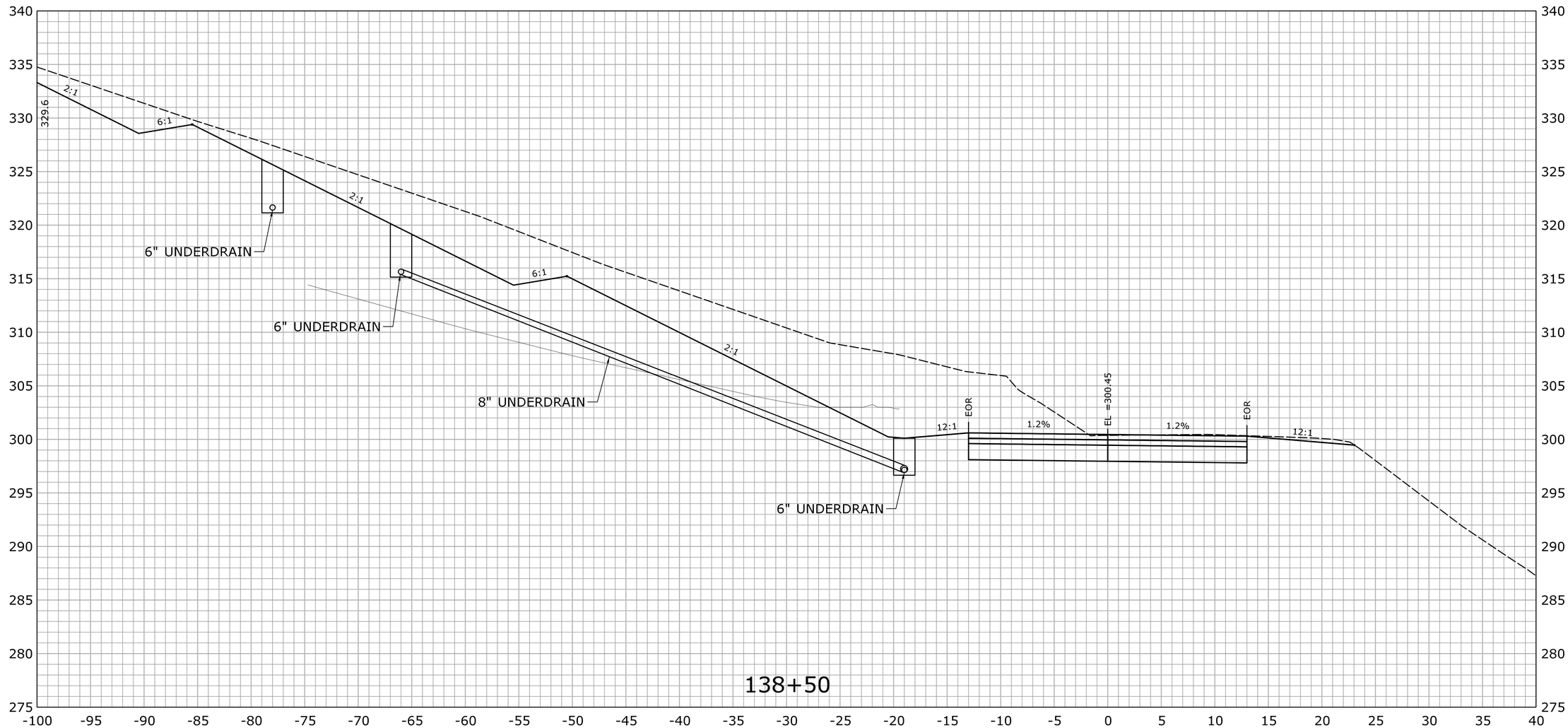
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-147**

SHEET NO. **03.194**





STA.138+50 TO STA.138+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-148**

SHEET NO. **03.195**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-149**

SHEET NO. **03.196**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

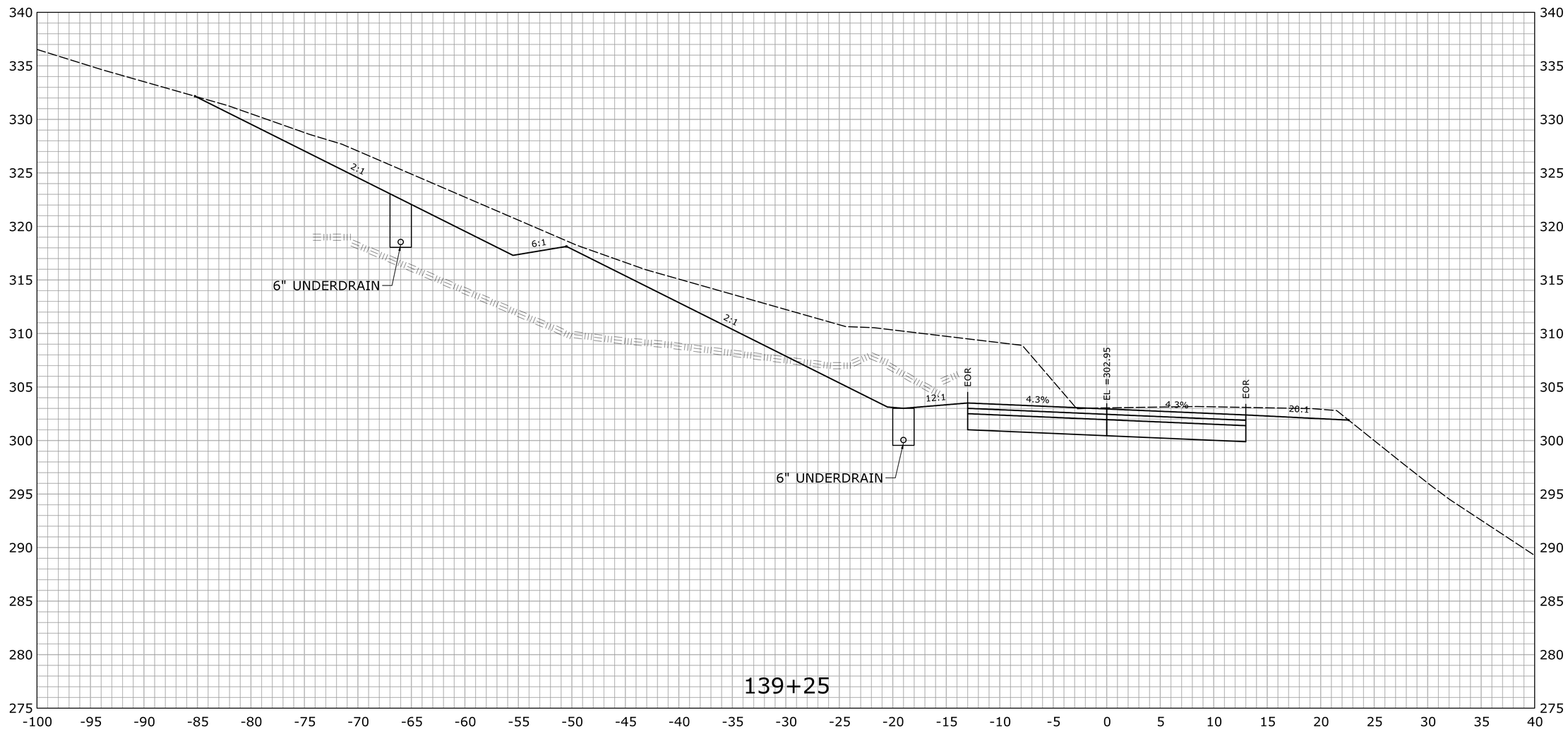
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-150**

SHEET NO. **03.197**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

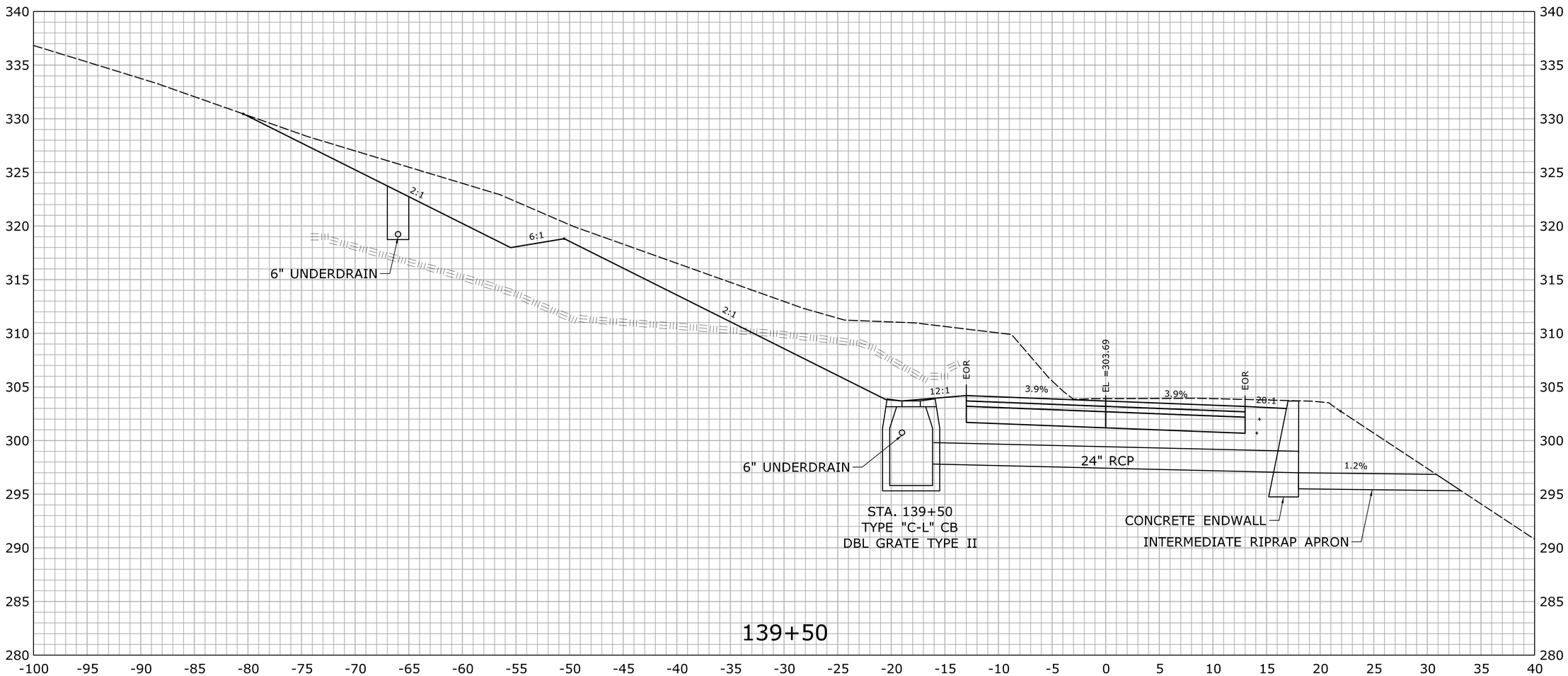
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-151**

SHEET NO. **03.198**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
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SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

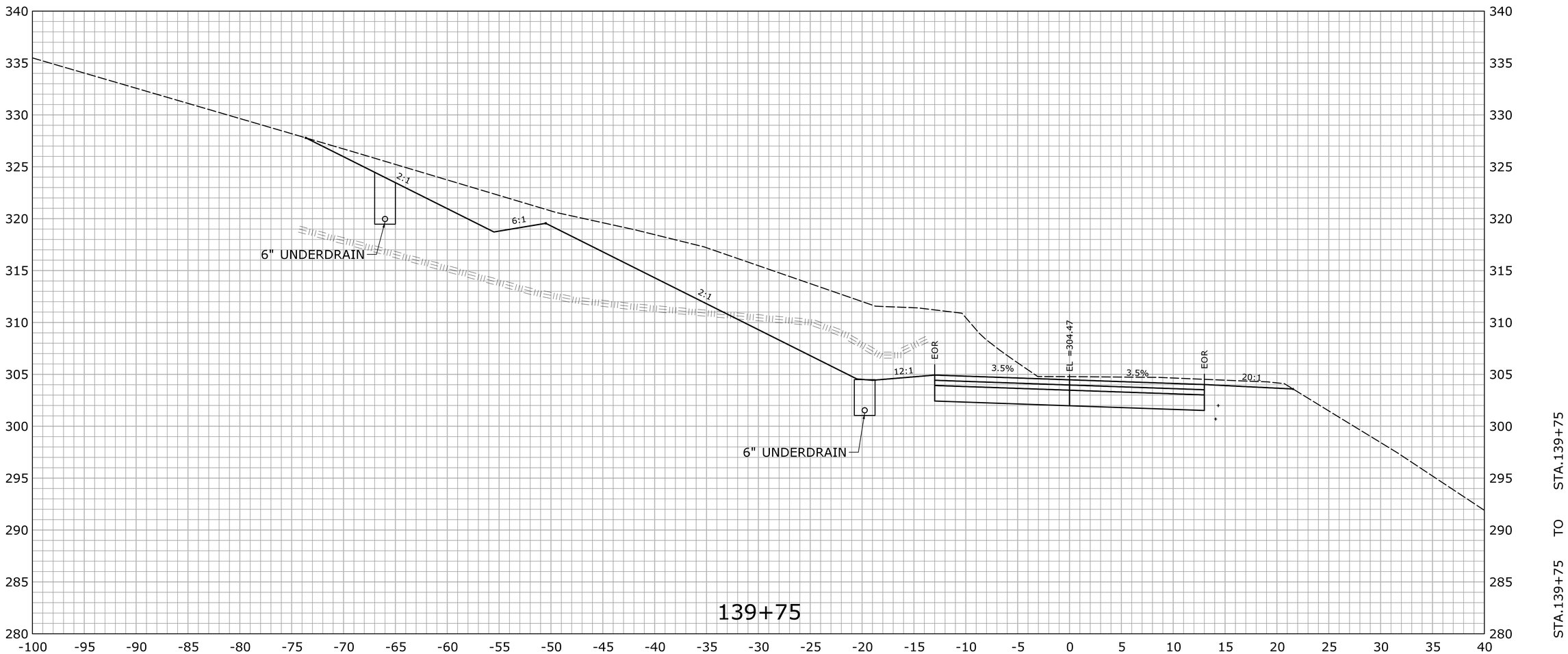
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-152**

SHEET NO. **03.199**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
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Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

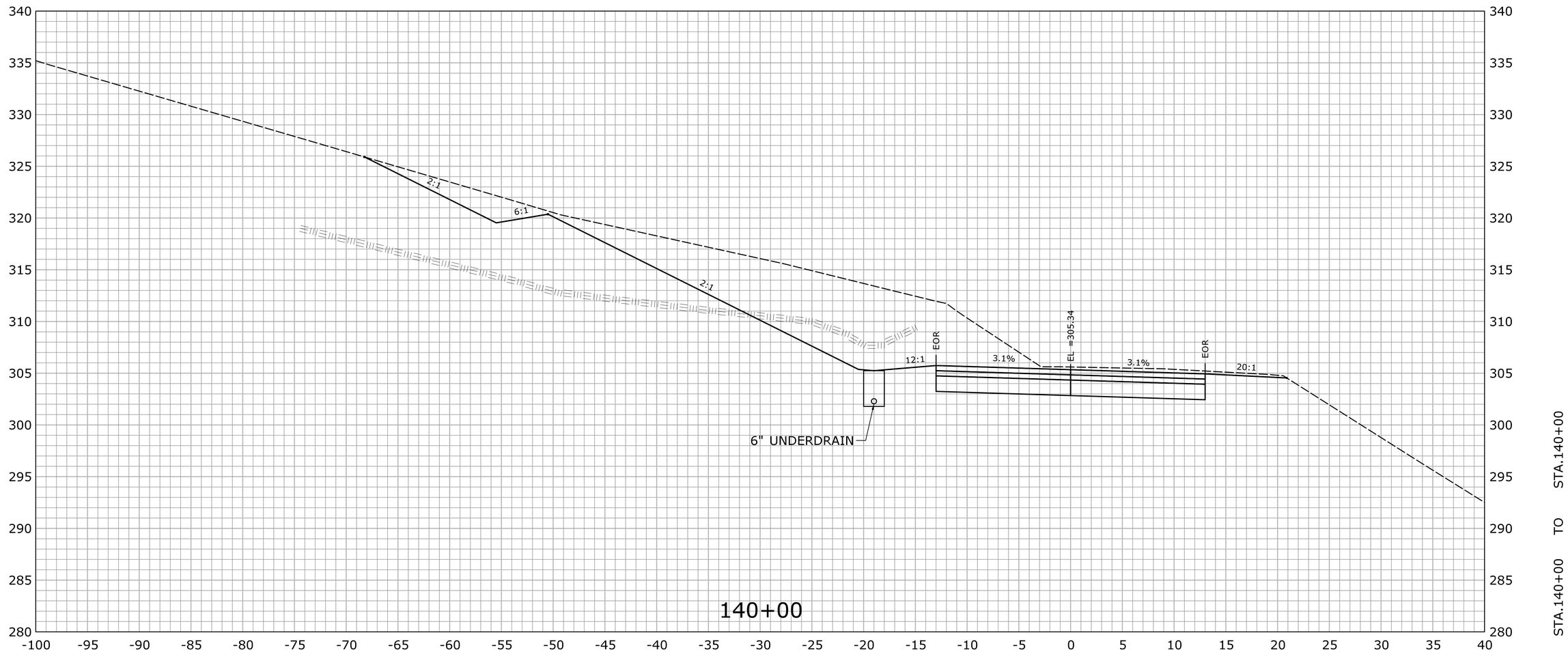
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-153**

SHEET NO. **03.200**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

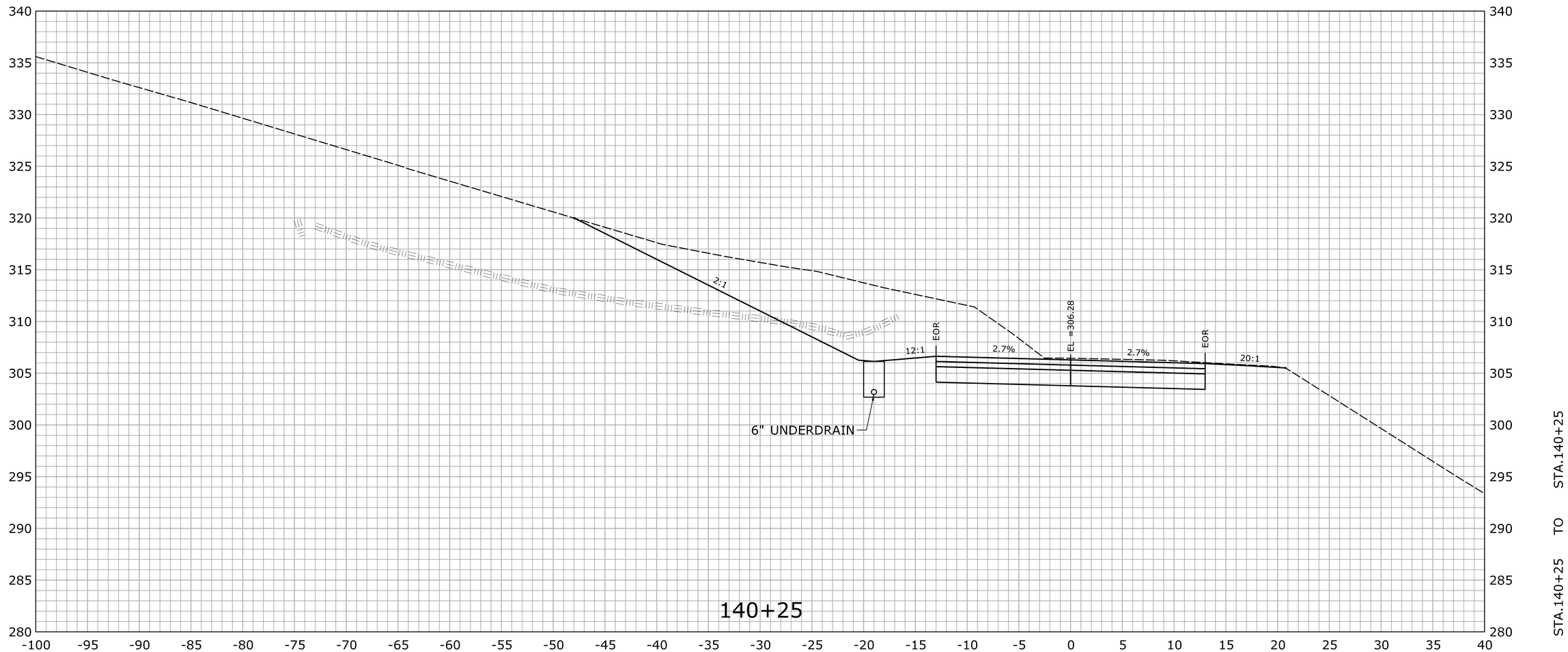
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-154**

SHEET NO. **03.201**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
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SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

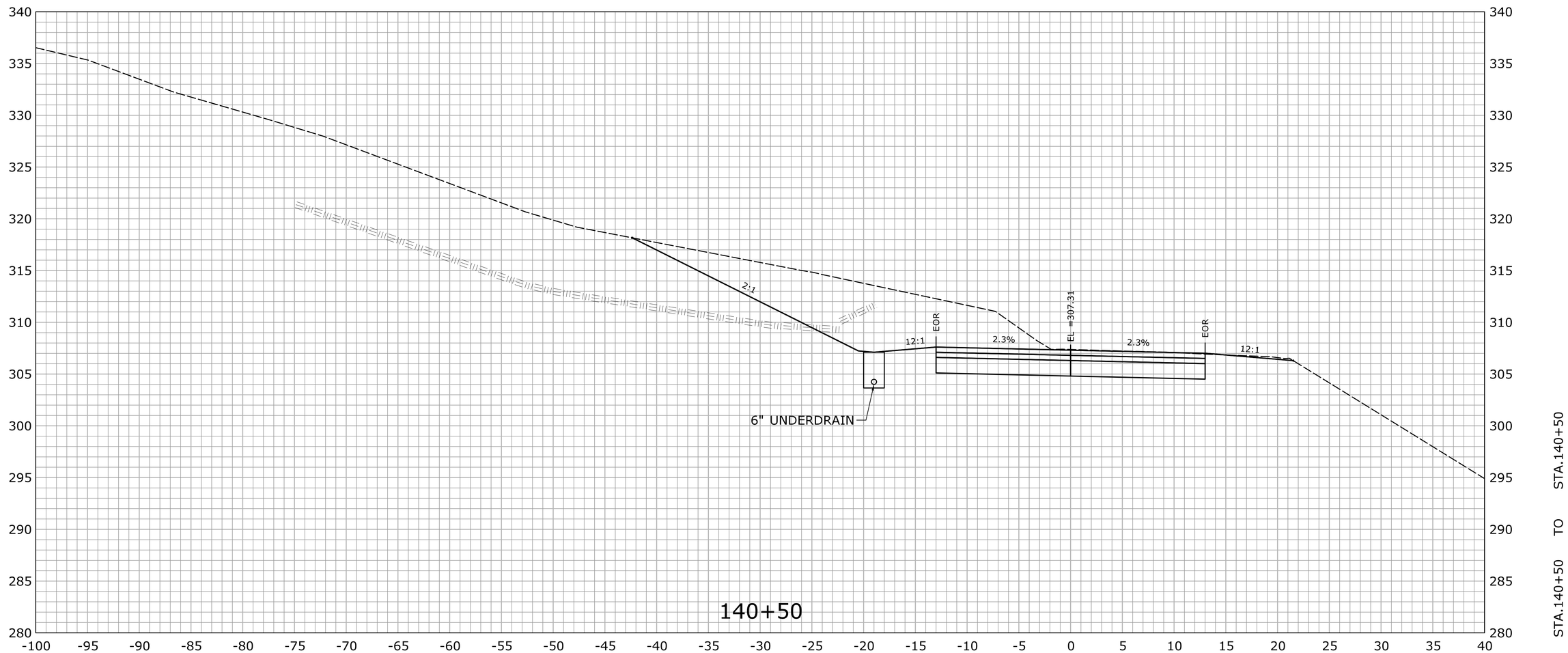
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-155**

SHEET NO. **03.202**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

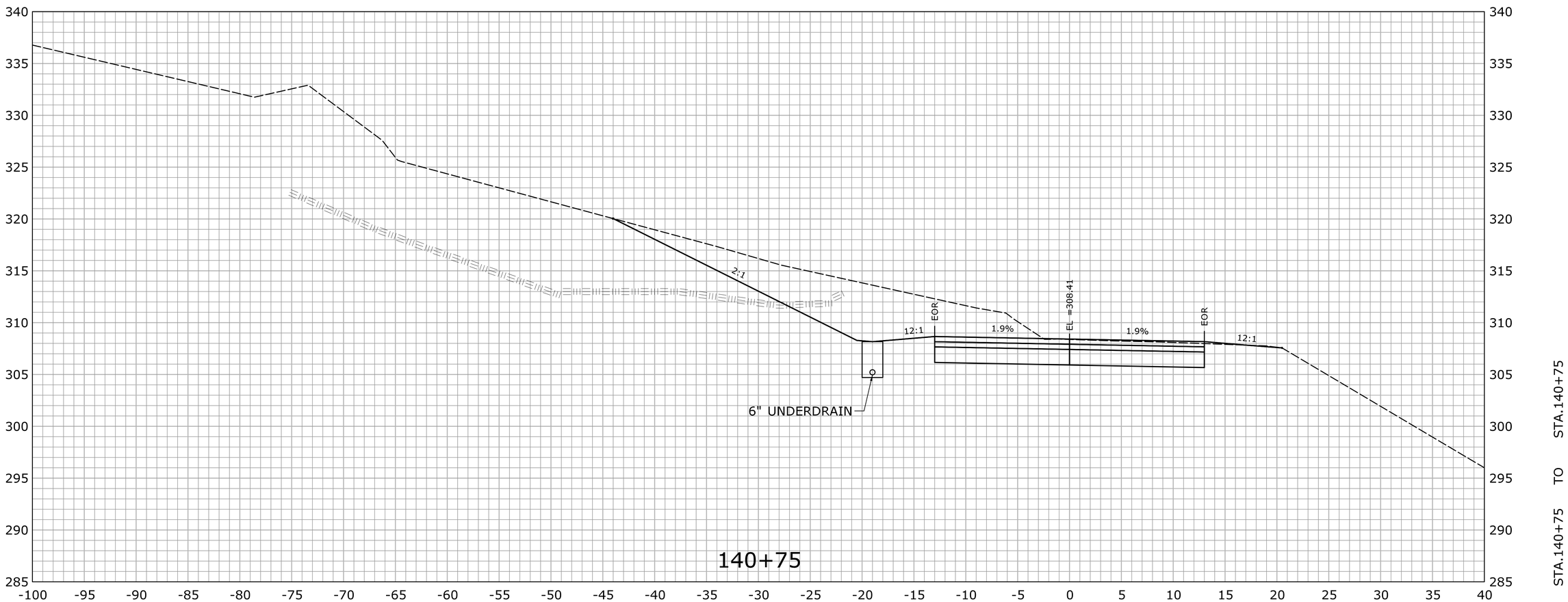
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-156**

SHEET NO. **03.203**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

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SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

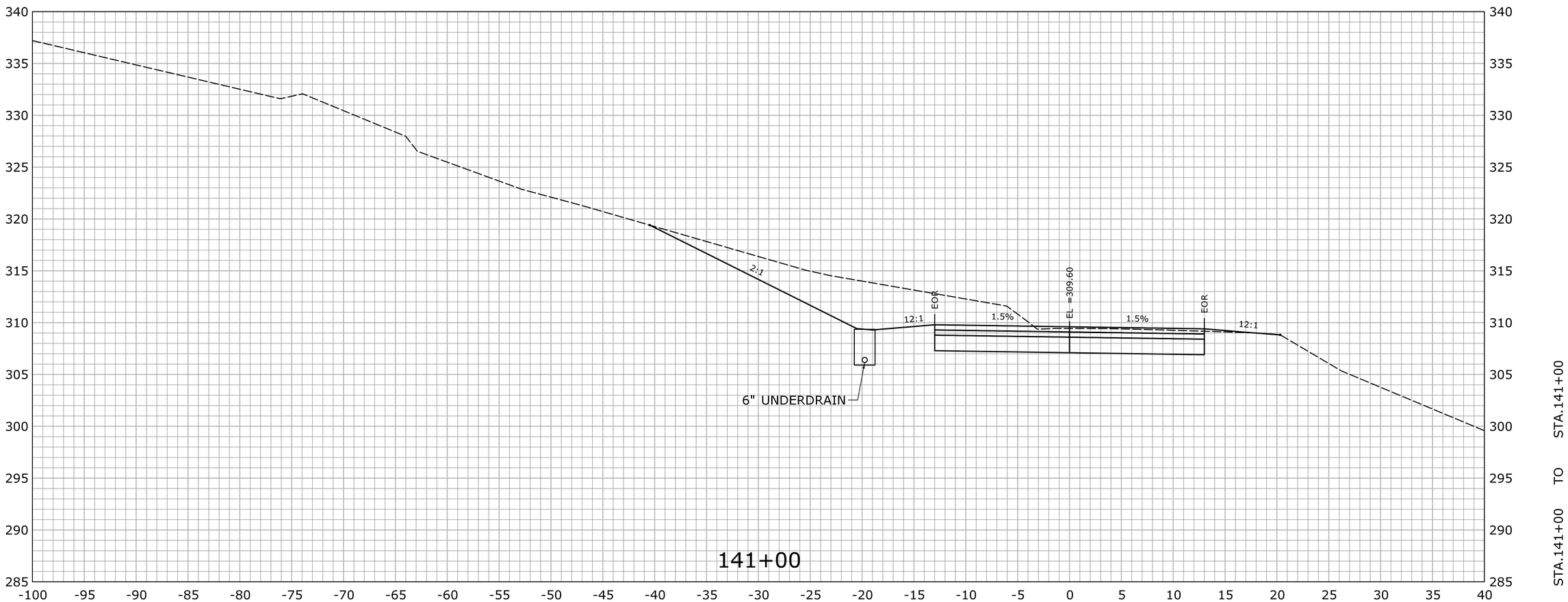
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-157**

SHEET NO. **03.204**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

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SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

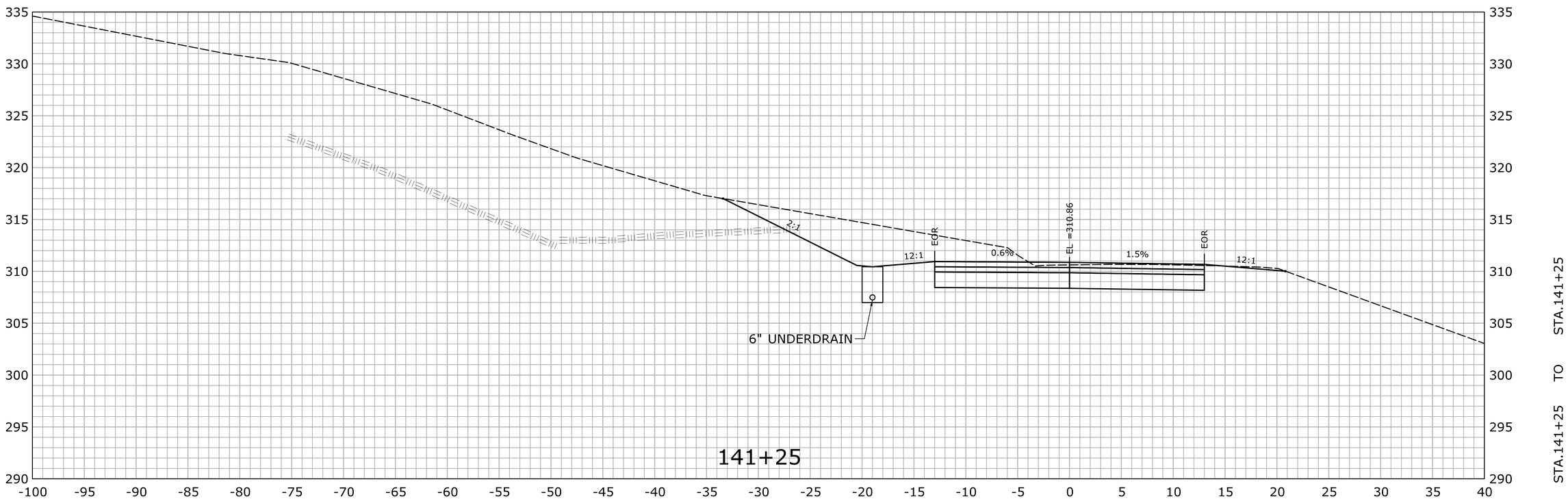
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-158**

SHEET NO. **03.205**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

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CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

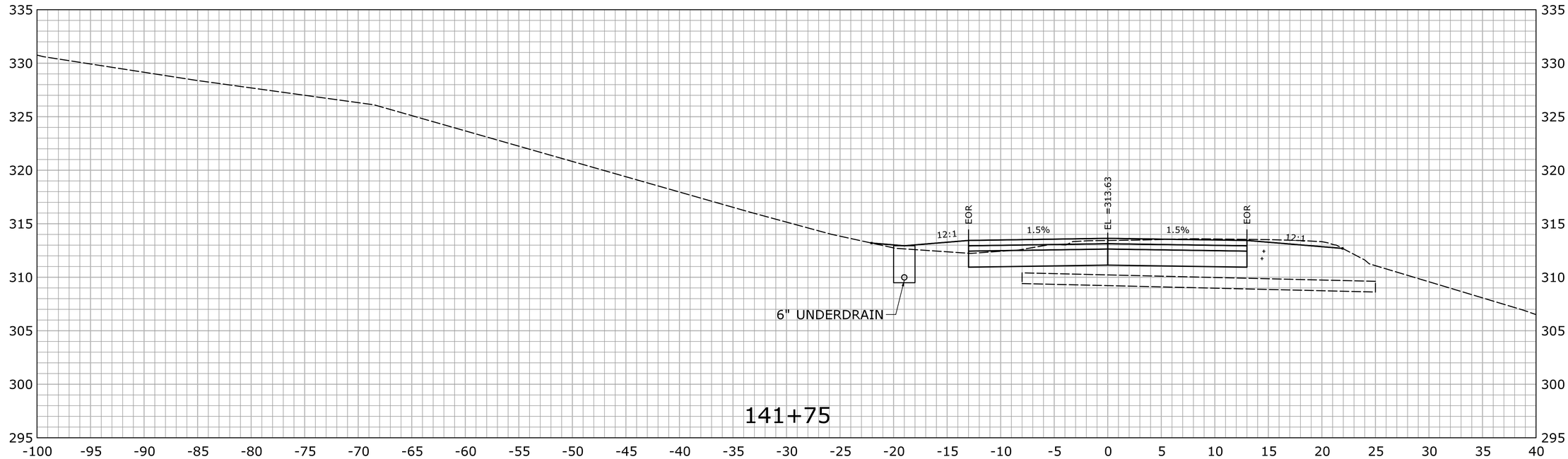
TOWN: **BRIDGEWATER**

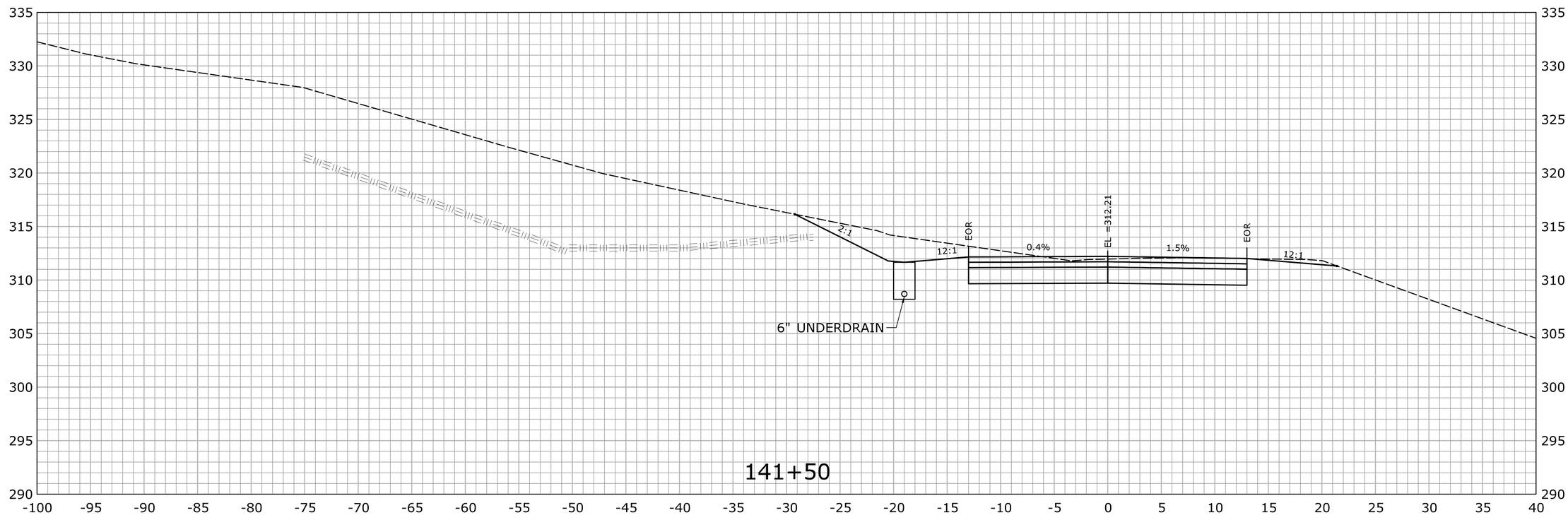
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-159**

SHEET NO. **03.206**





STA.141+50 TO STA.141+75

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

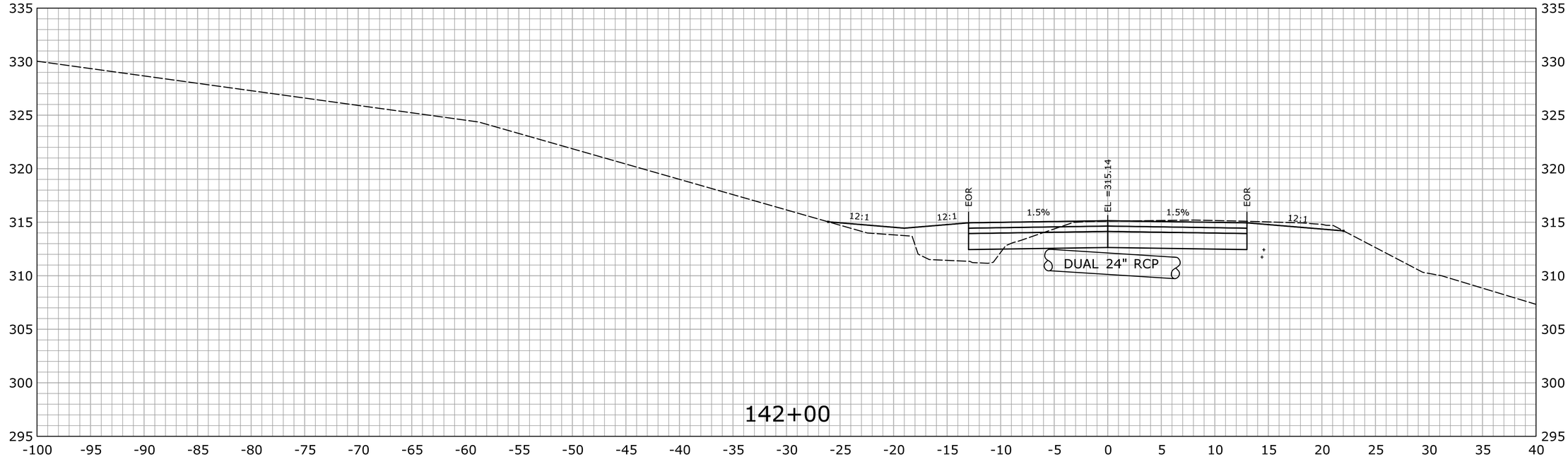
TOWN: **BRIDGEWATER**

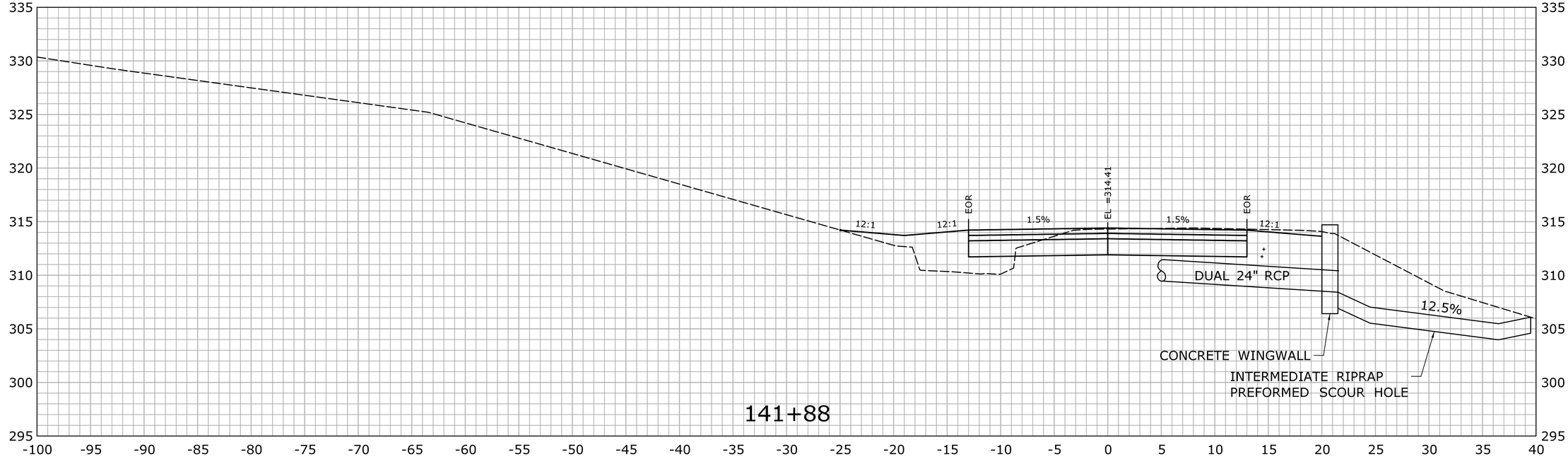
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-160**

SHEET NO. **03.207**





STA.141+88 TO STA.142+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

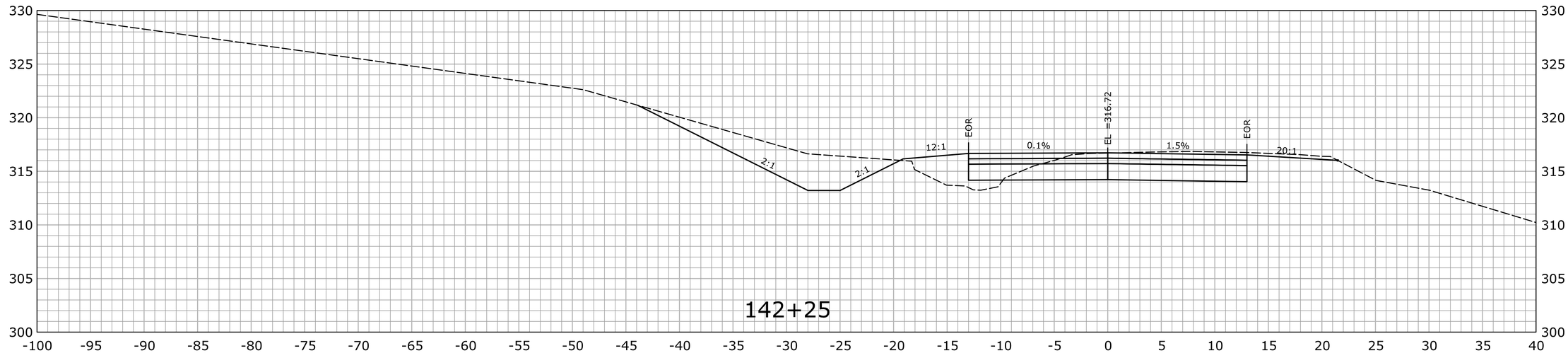
TOWN: **BRIDGEWATER**

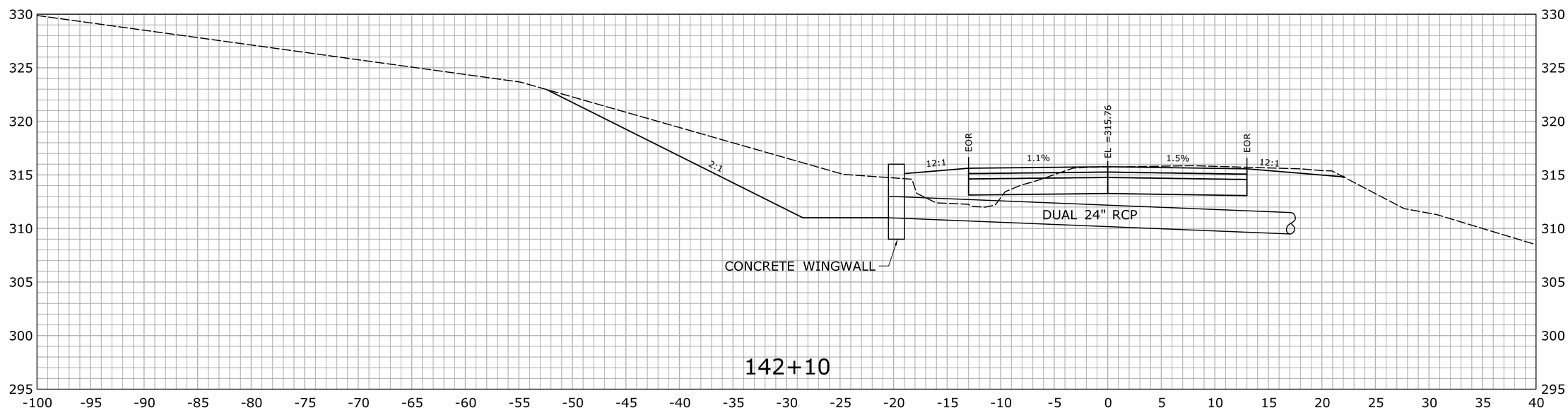
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-161**

SHEET NO. **03.208**





STA.142+10 TO STA.142+25

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

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SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

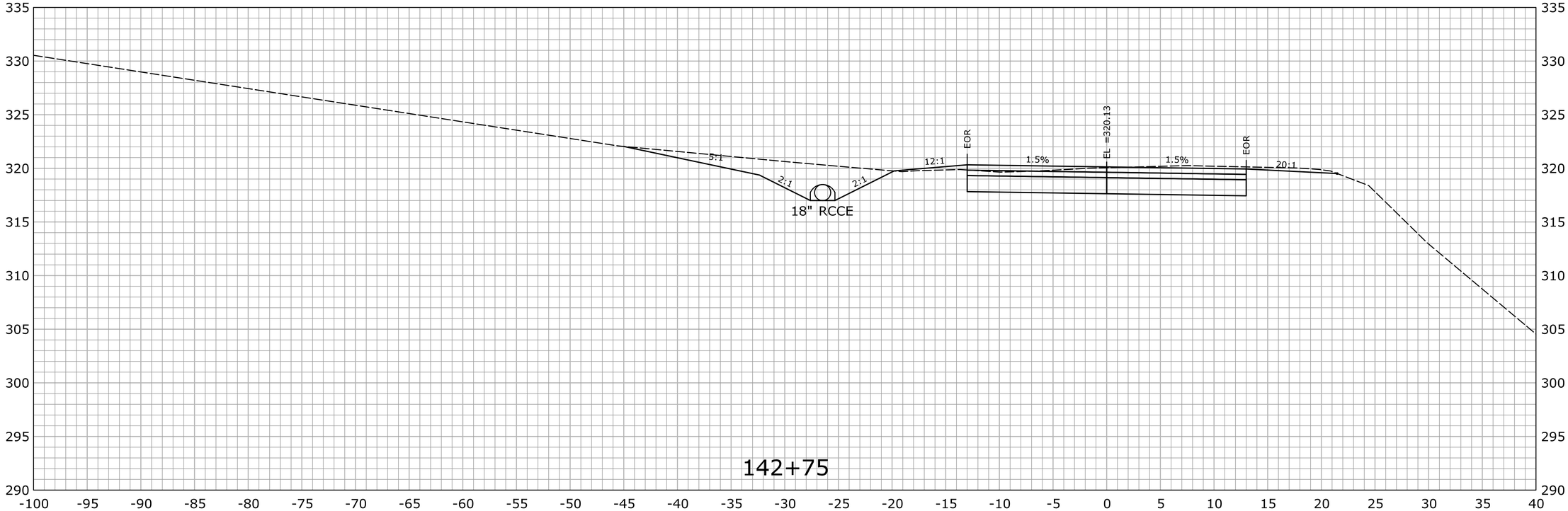
TOWN: **BRIDGEWATER**

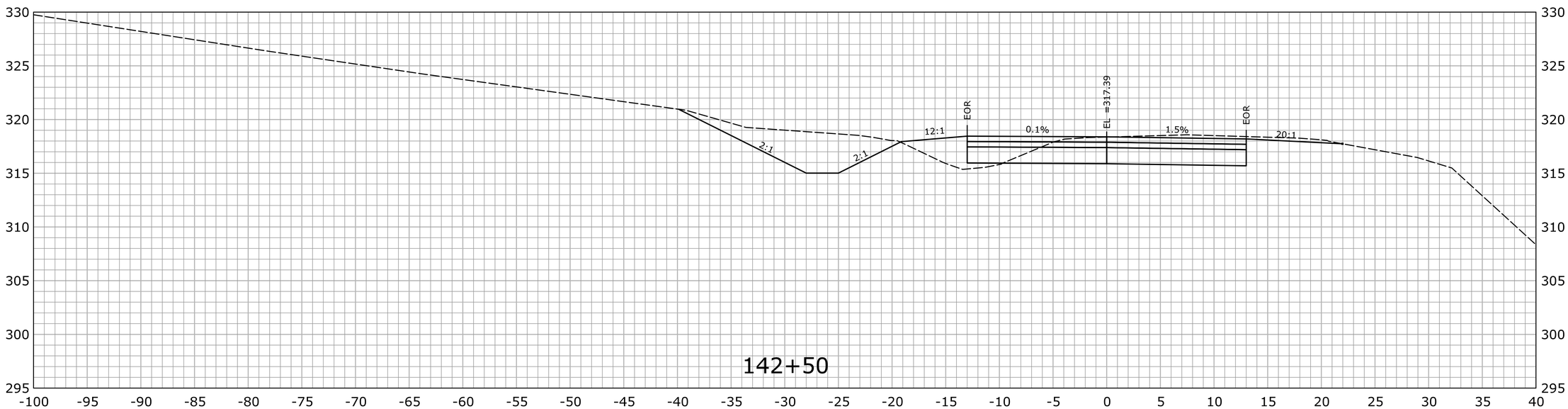
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-162**

SHEET NO. **03.209**





STA.142+50 TO STA.142+75

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

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STATE OF CONNECTICUT
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PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

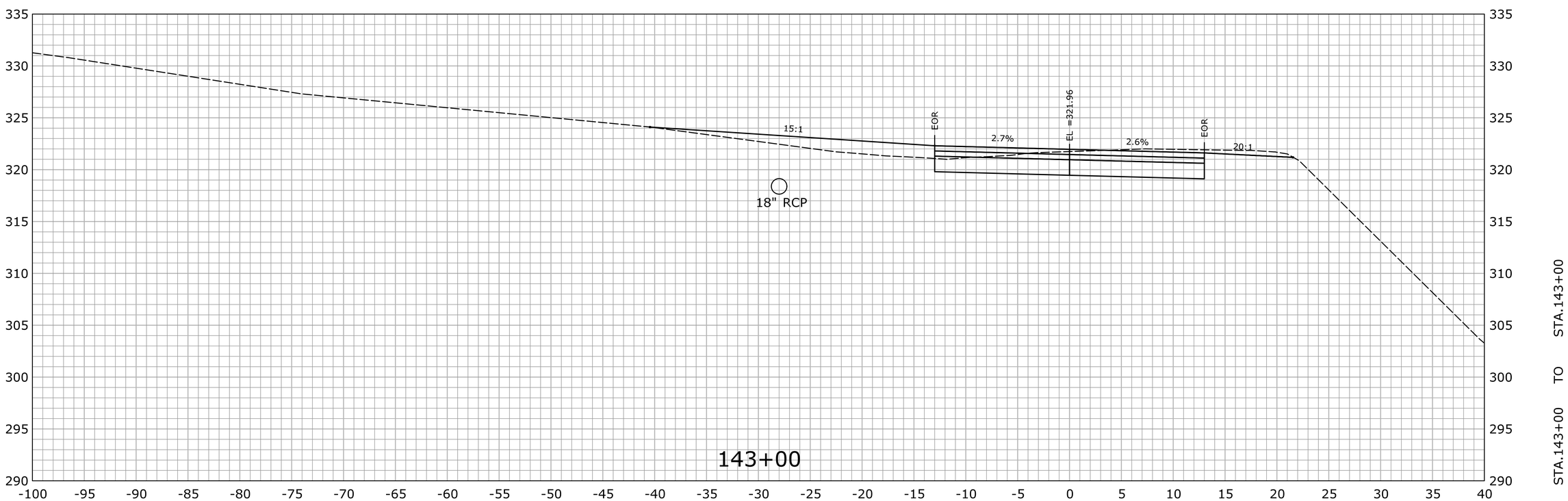
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-163**

SHEET NO. **03.210**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

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SCALE IN FEET

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Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

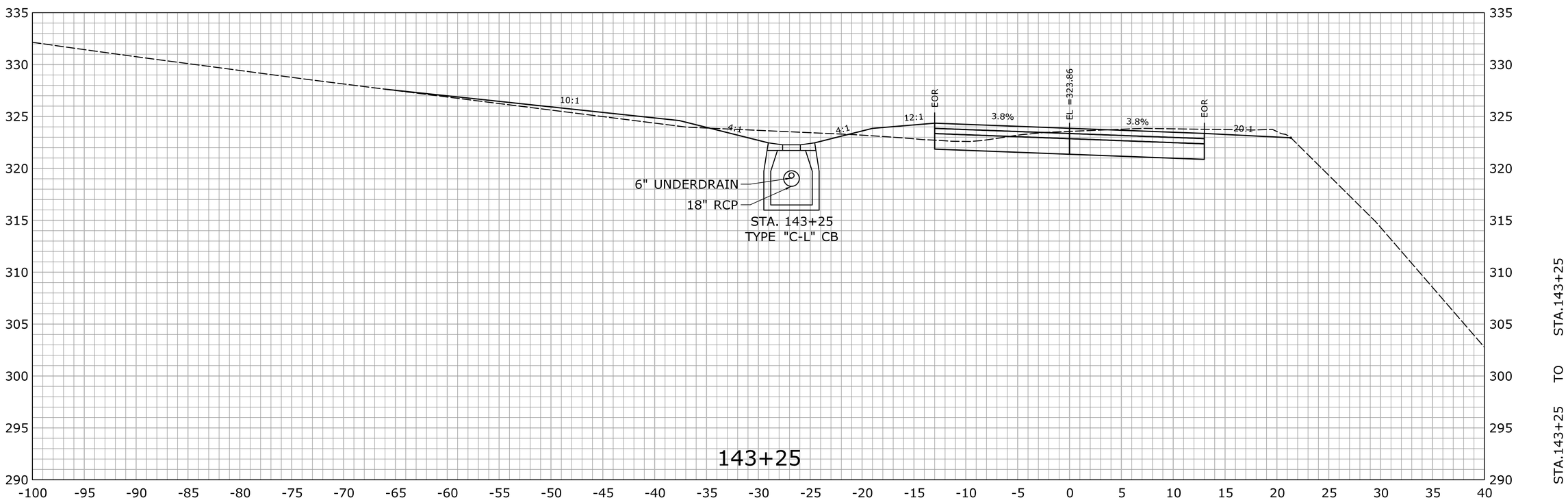
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-164**

SHEET NO. **03.211**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

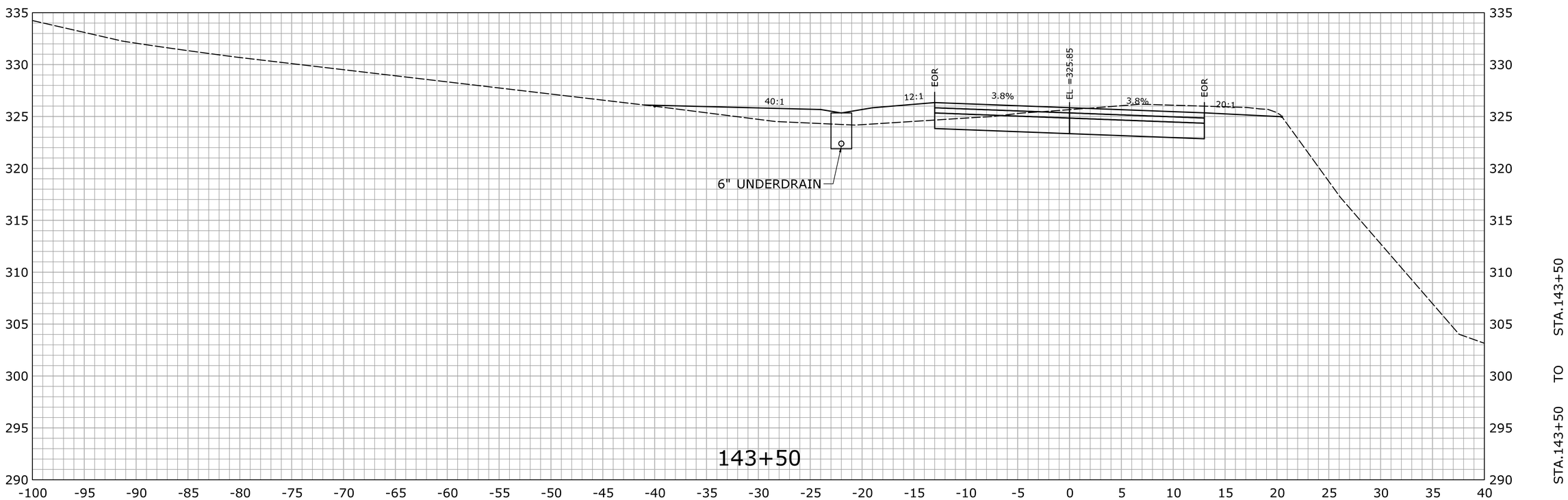
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-165**

SHEET NO. **03.212**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

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SCALE 1" = 5'

STATE OF CONNECTICUT
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Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

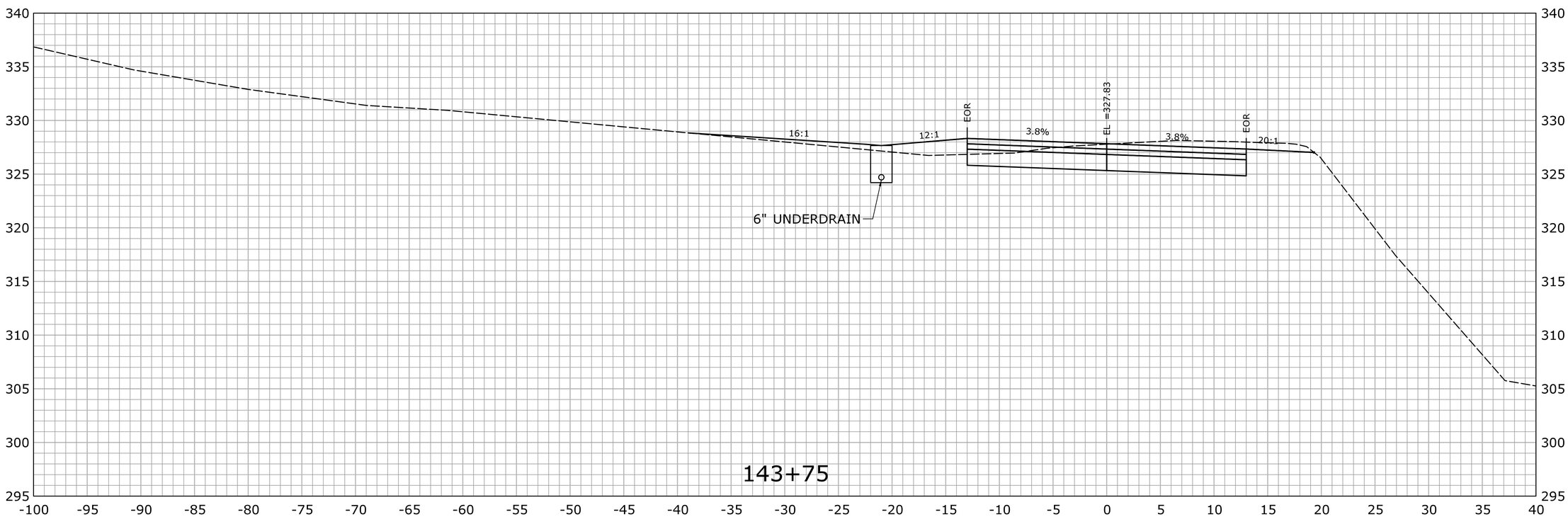
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-166**

SHEET NO. **03.213**



STA.143+75 TO STA.143+75

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

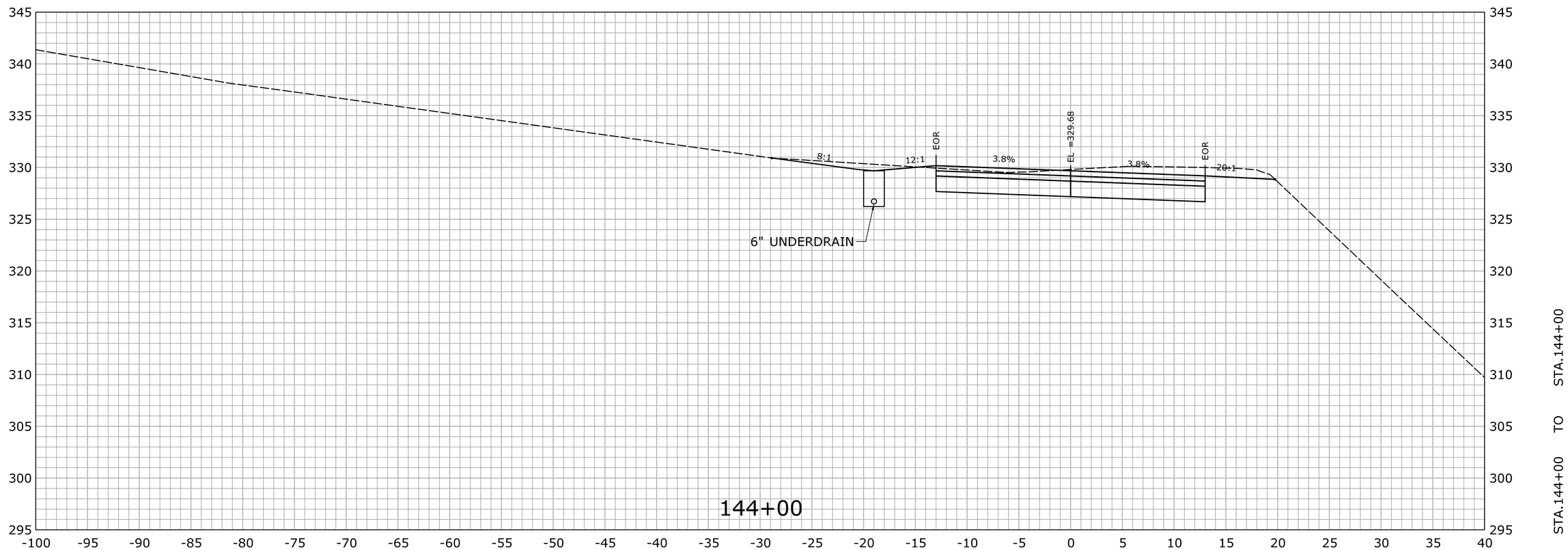
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-167**

SHEET NO. **03.214**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

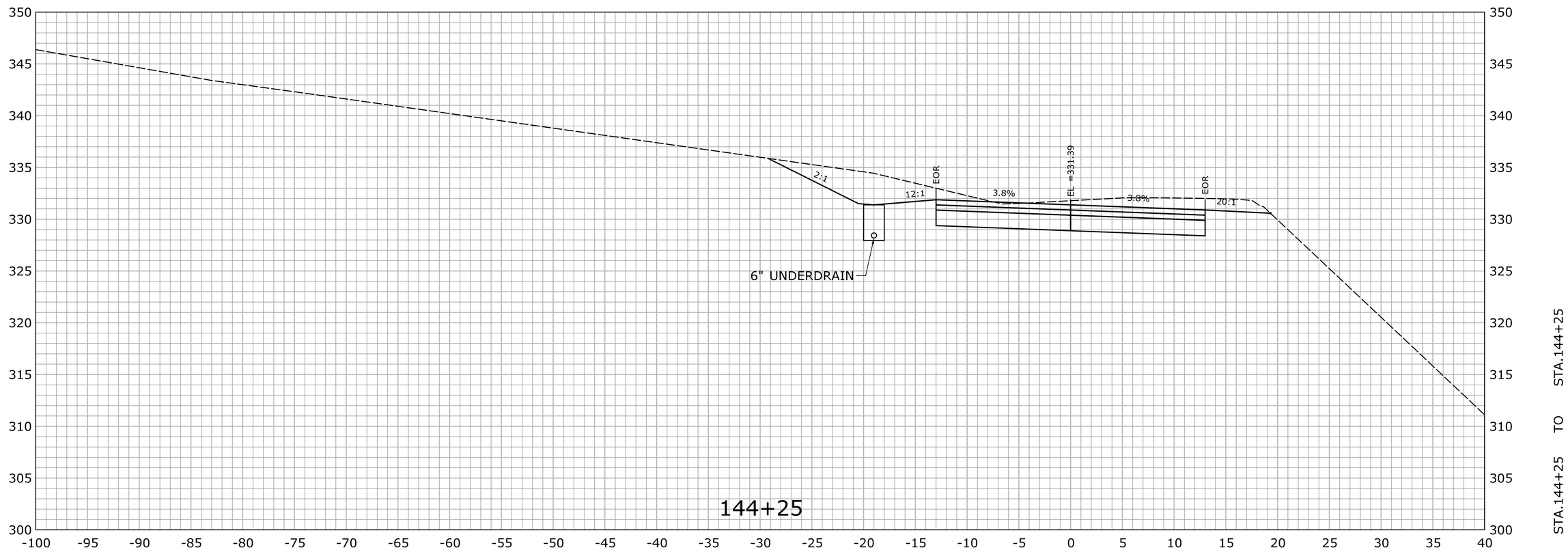
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-168**

SHEET NO. **03.215**



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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

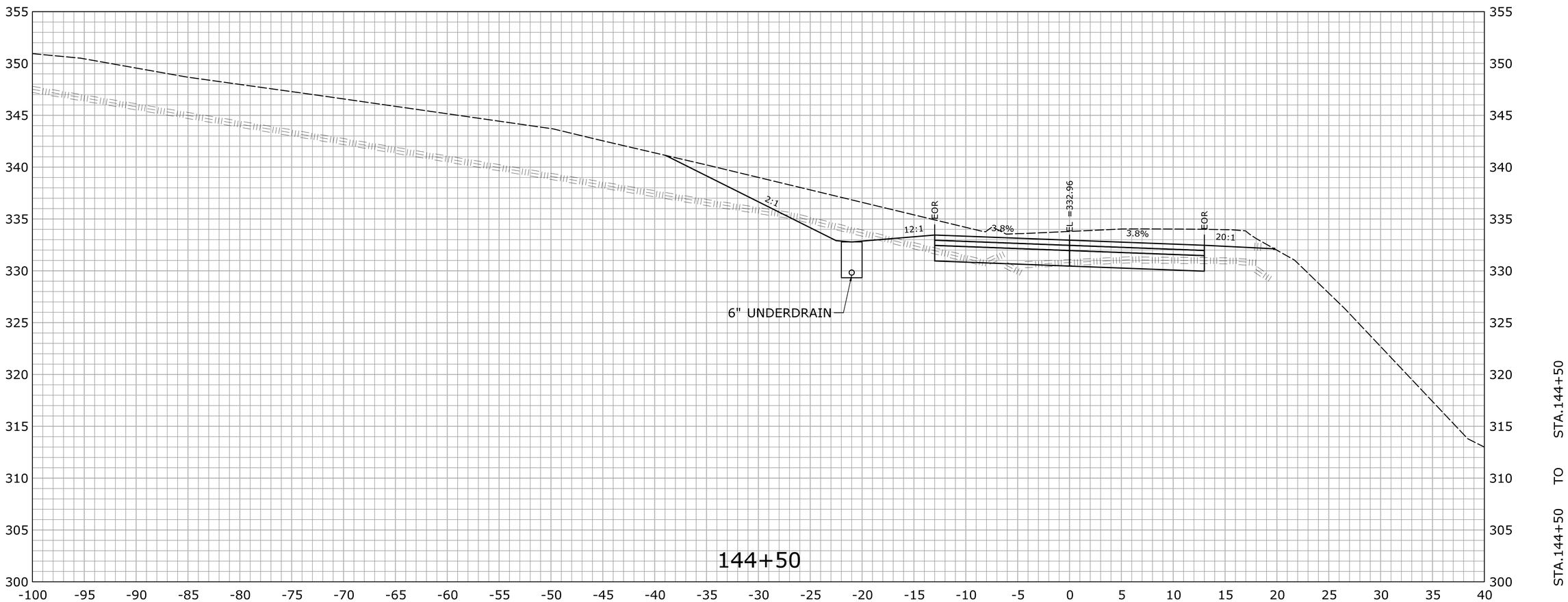
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-169**

SHEET NO. **03.216**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

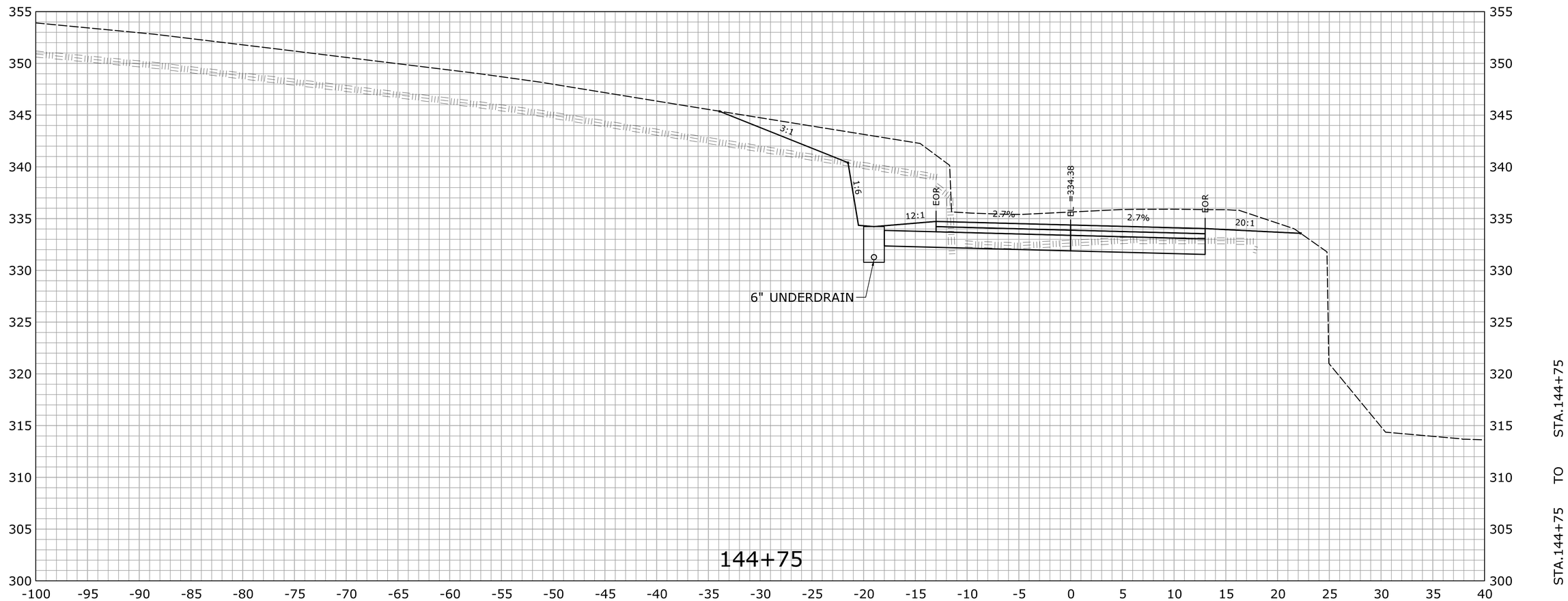
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-170**

SHEET NO. **03.217**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

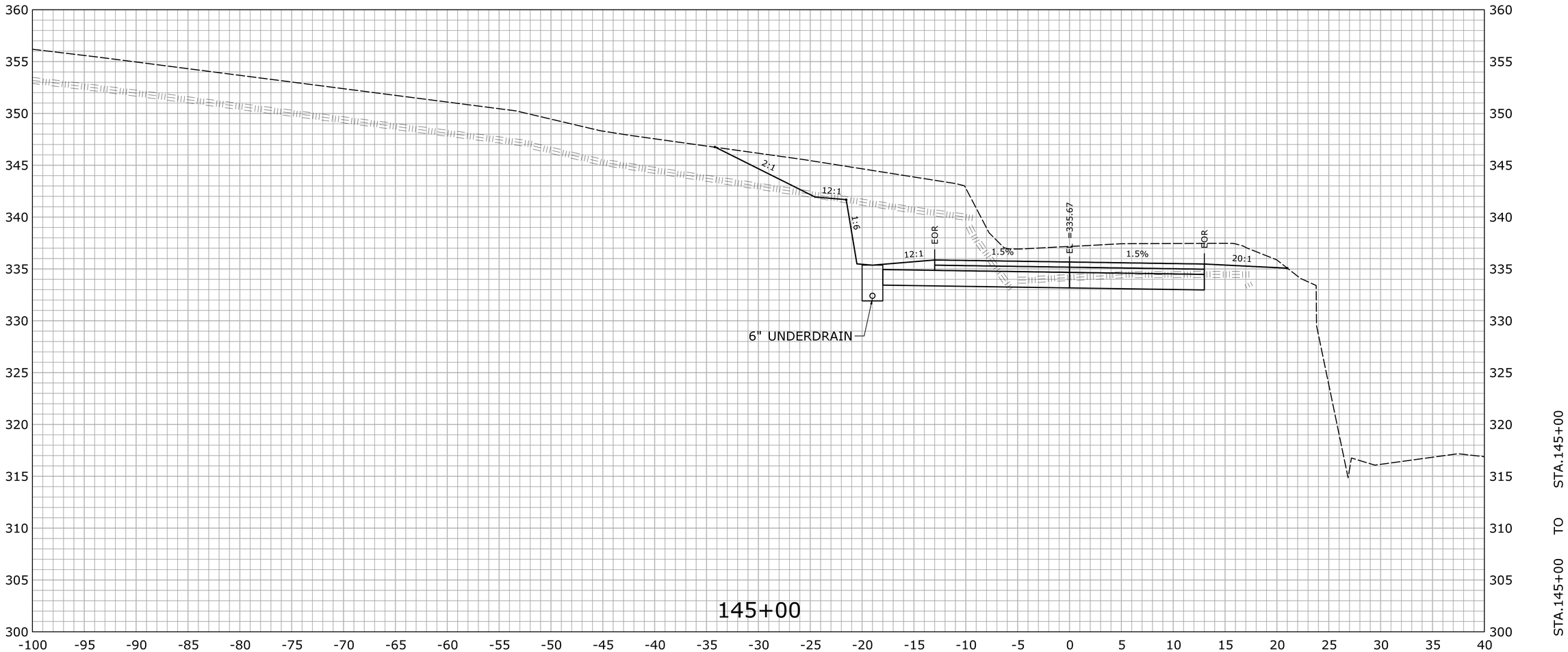
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-171**

SHEET NO. **03.218**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

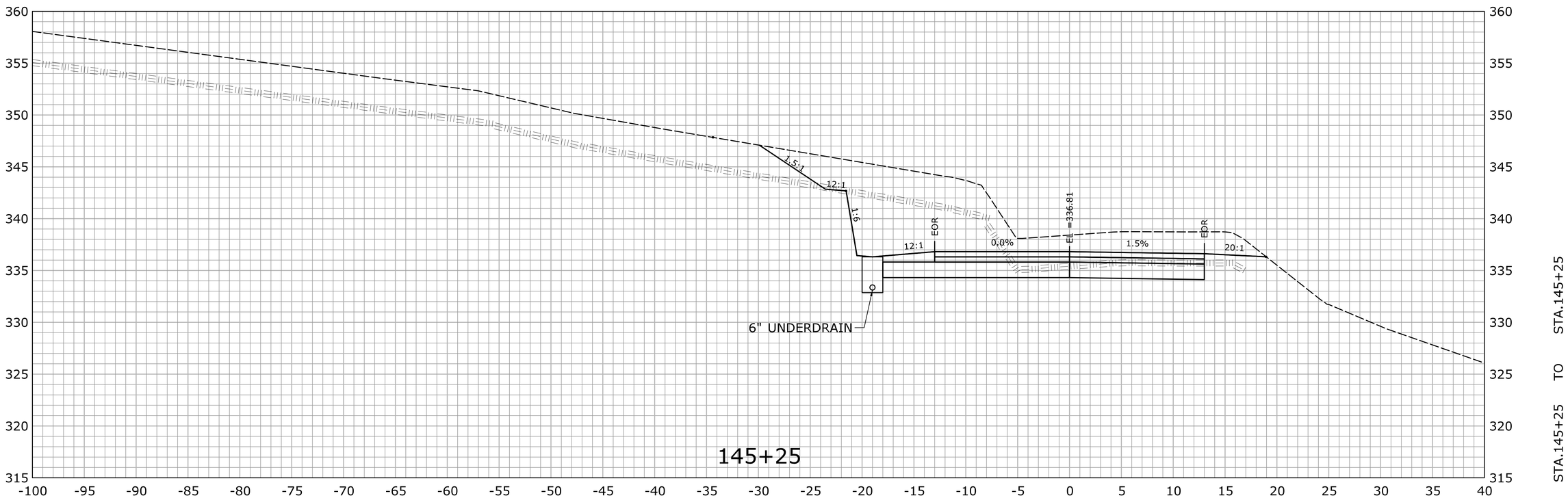
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-172**

SHEET NO. **03.219**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

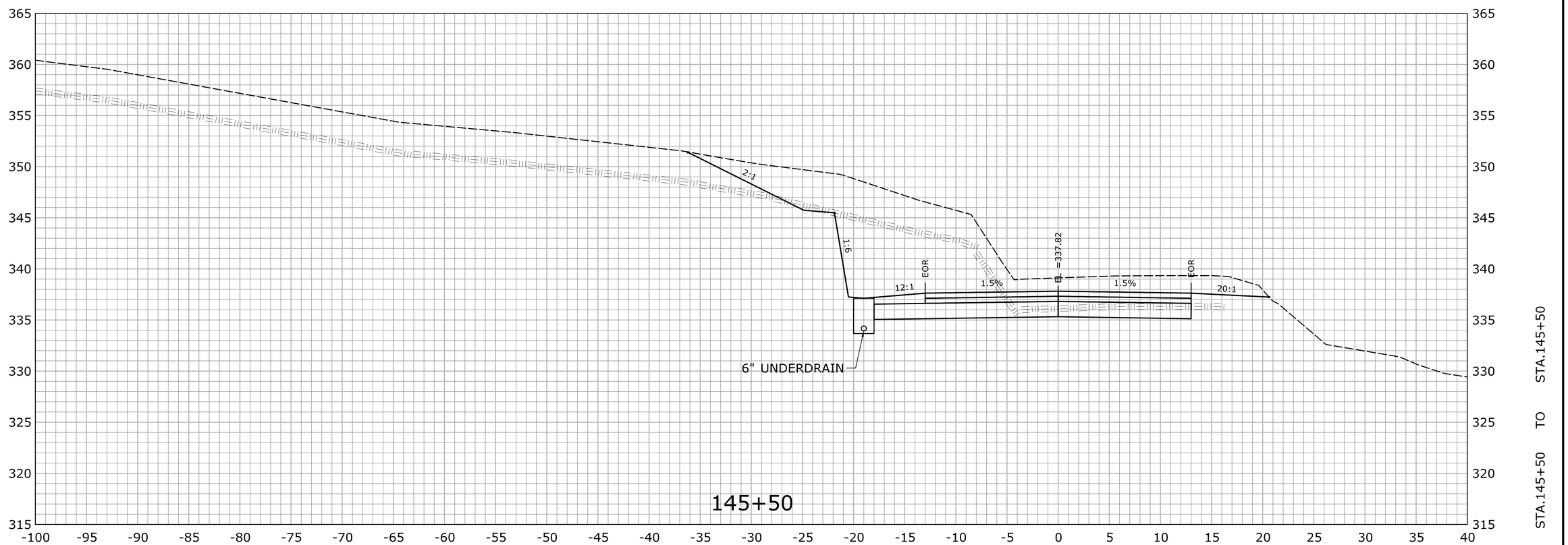
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-173**

SHEET NO. **03.220**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

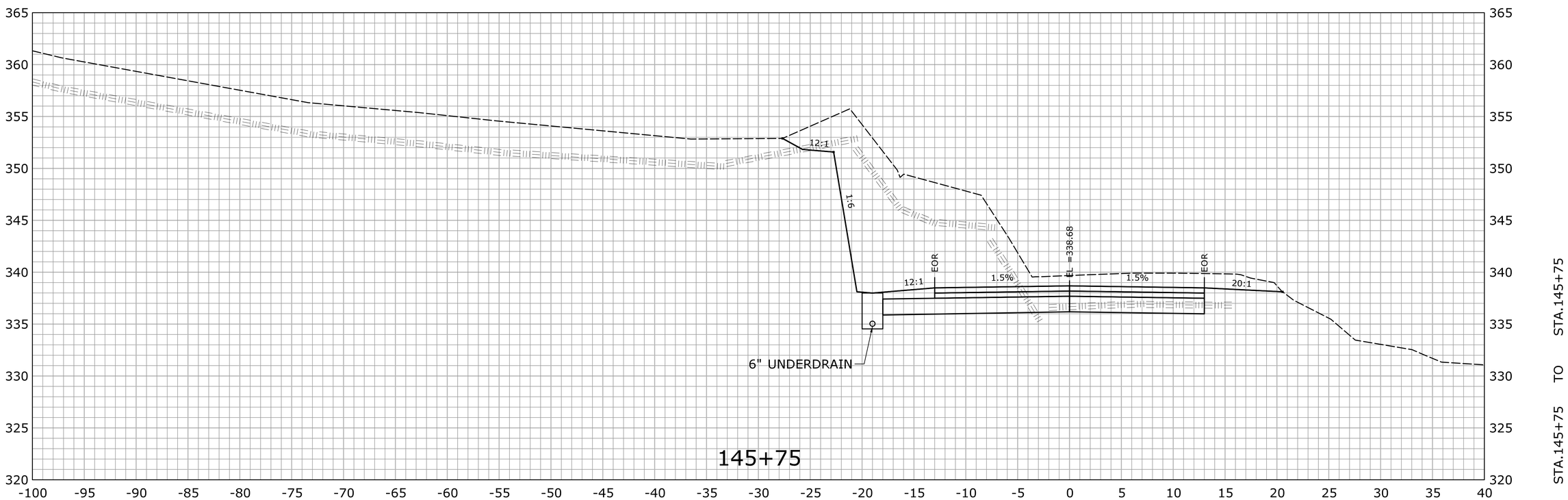
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-174**

SHEET NO. **03.221**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

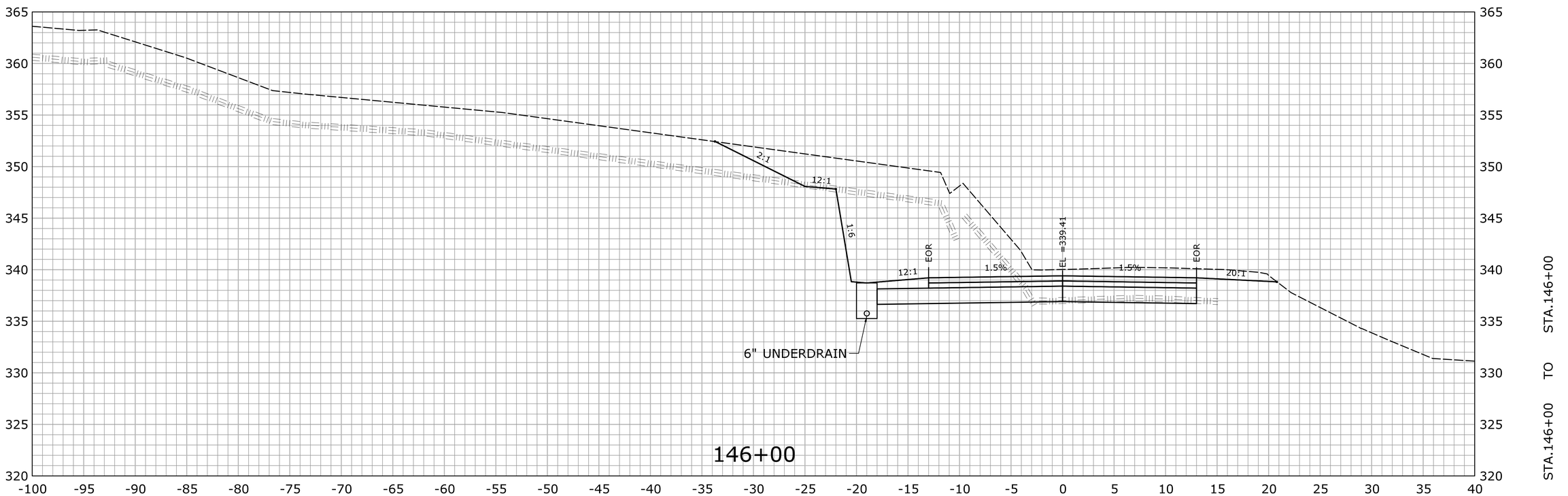
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-175**

SHEET NO. **03.222**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

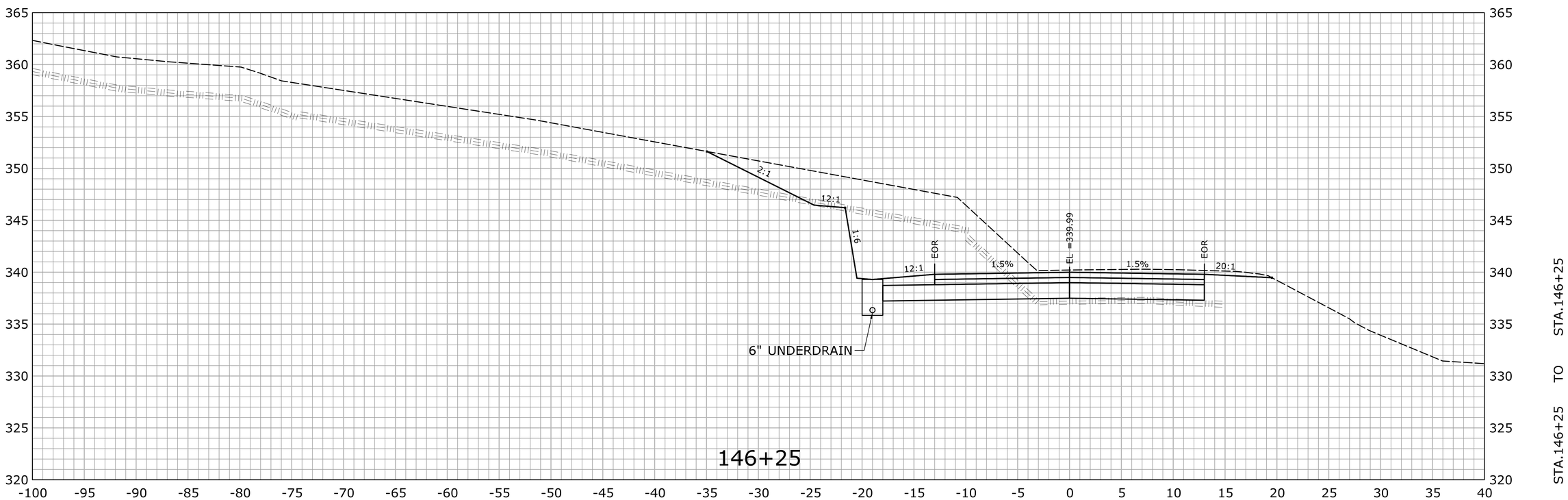
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-176**

SHEET NO. **03.223**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

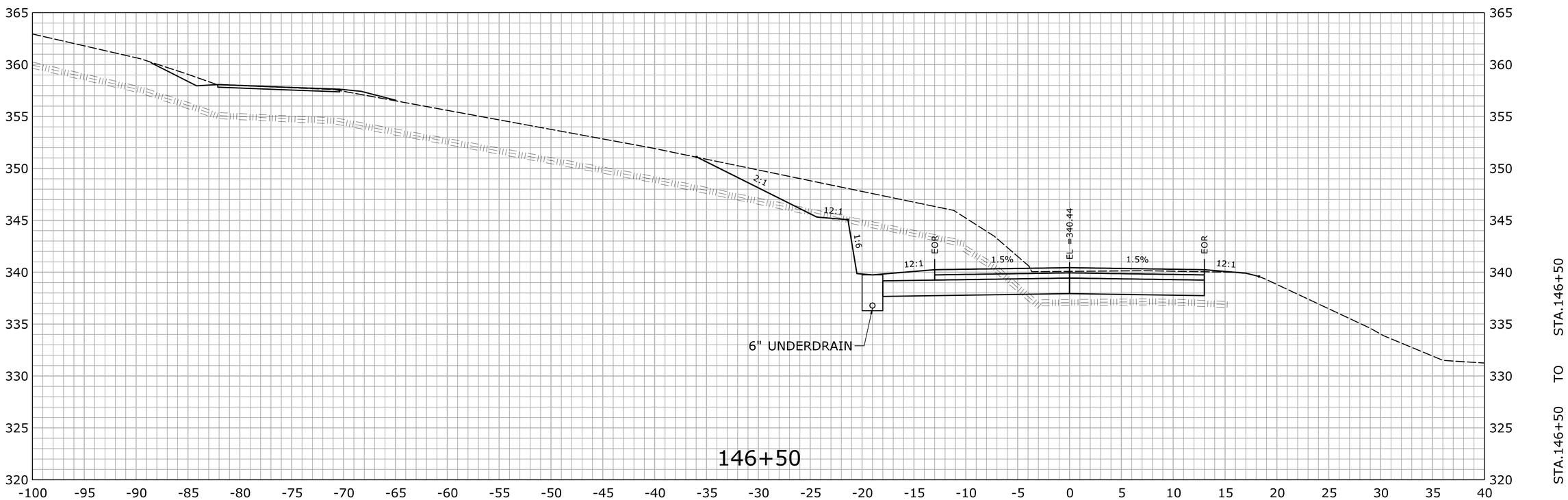
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-177**

SHEET NO. **03.224**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

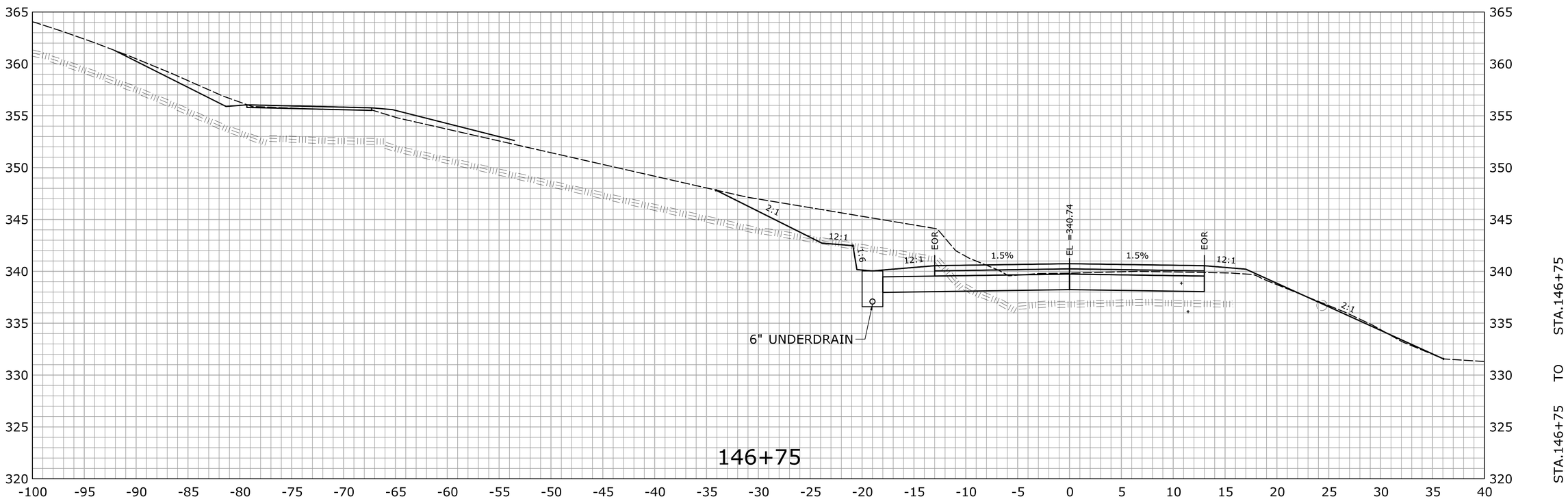
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-178**

SHEET NO. **03.225**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

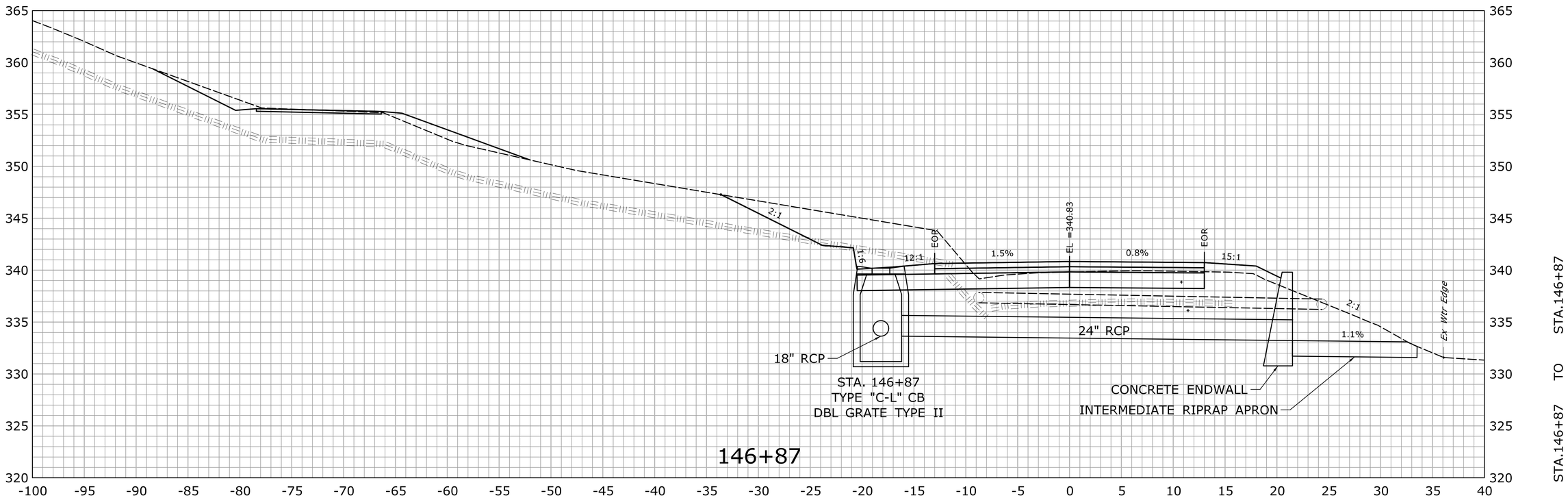
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-179**

SHEET NO. **03.226**



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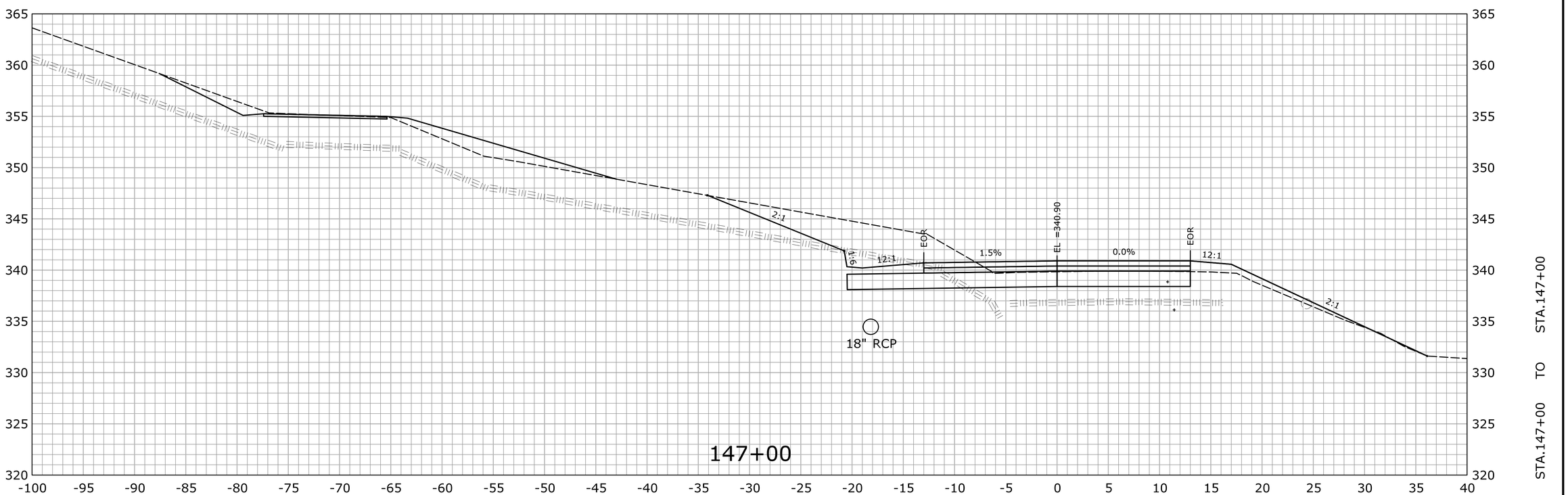
PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**
DRAWING NO. **XSC-180**
SHEET NO. **03.227**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

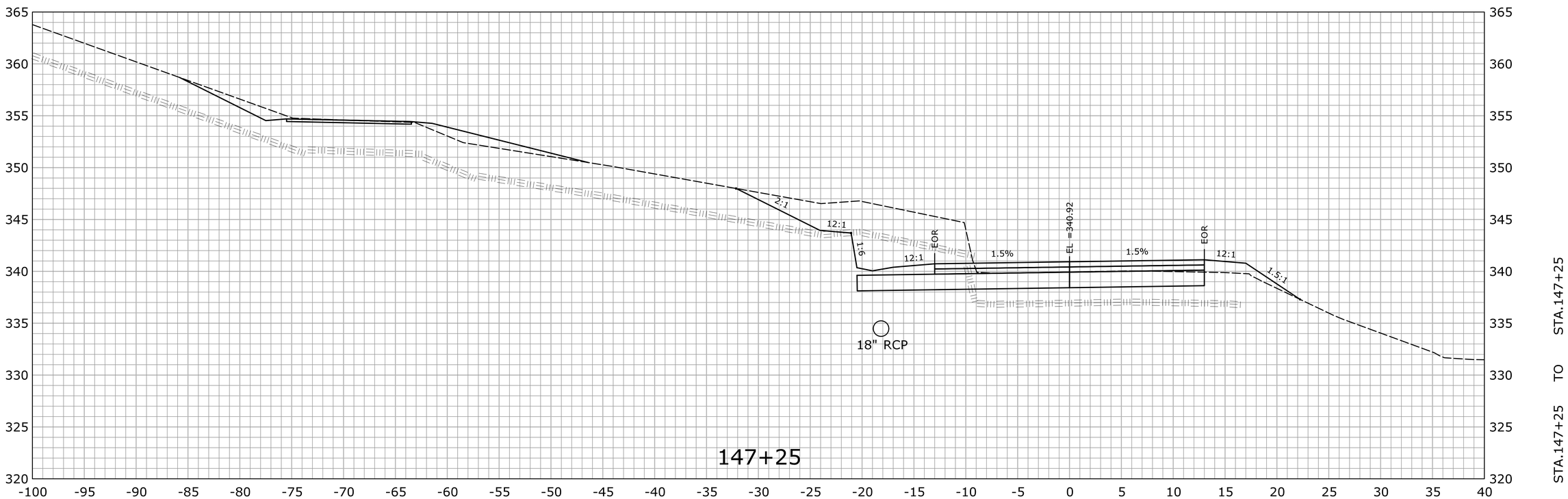
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-181**

SHEET NO. **03.228**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

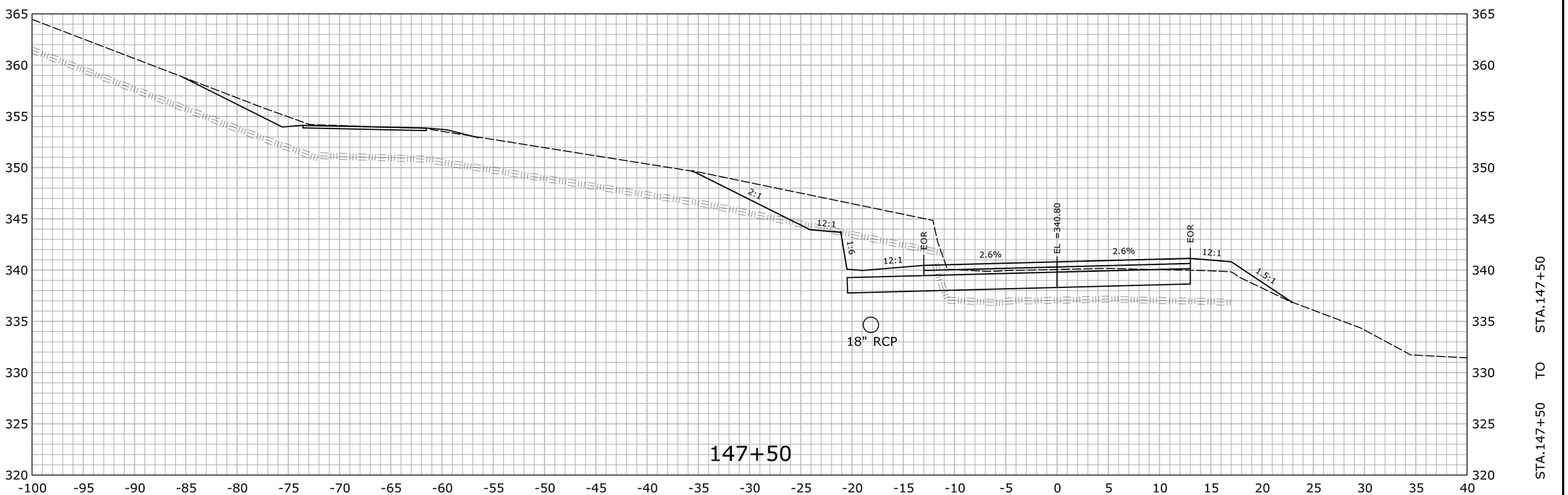
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-182**

SHEET NO. **03.229**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

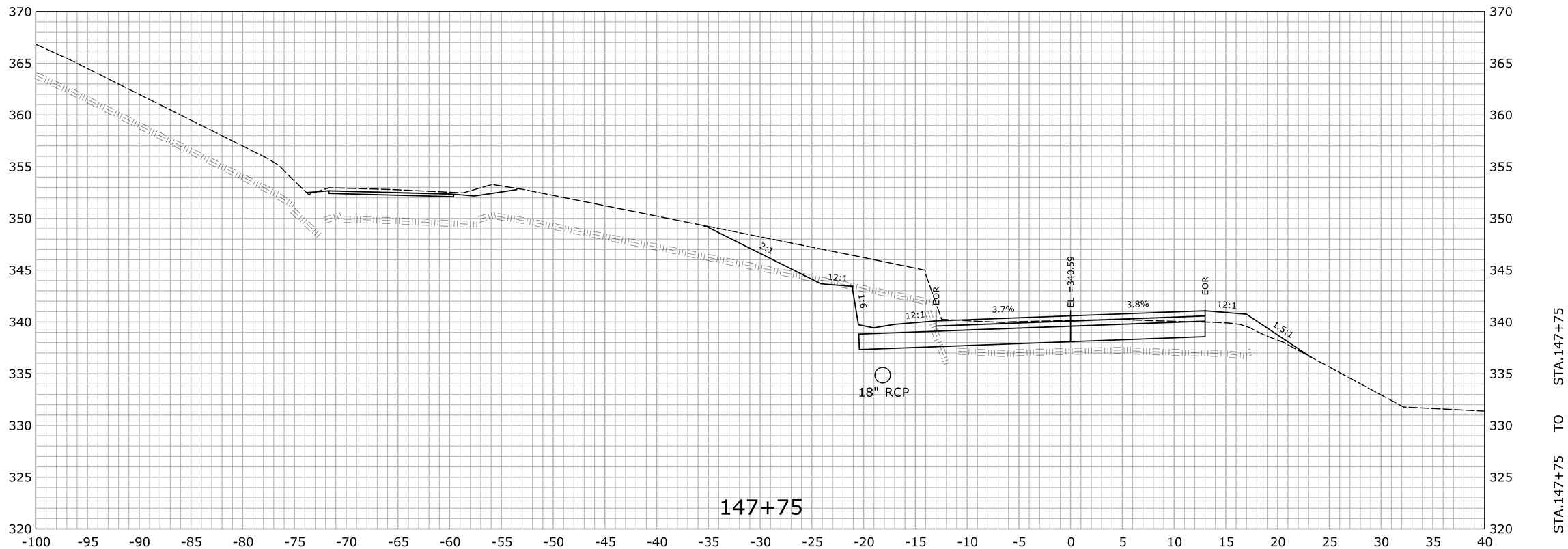
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-183**

SHEET NO. **03.230**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

0 5 10

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Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

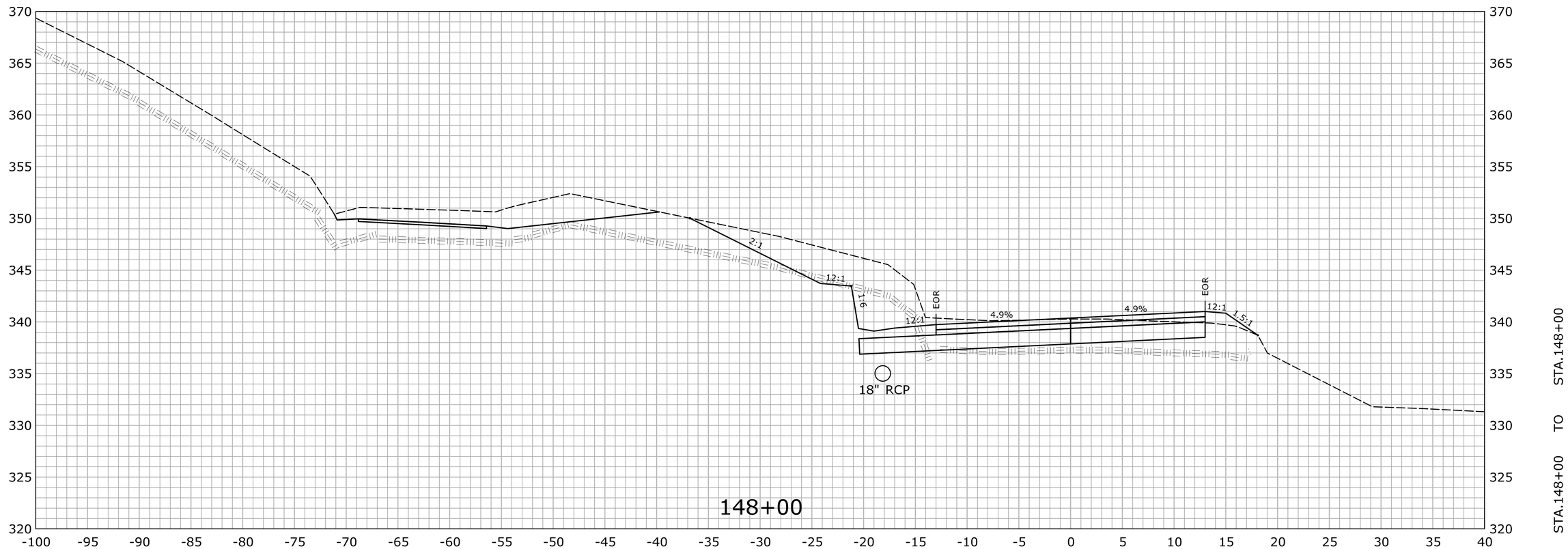
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-184**

SHEET NO. **03.231**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

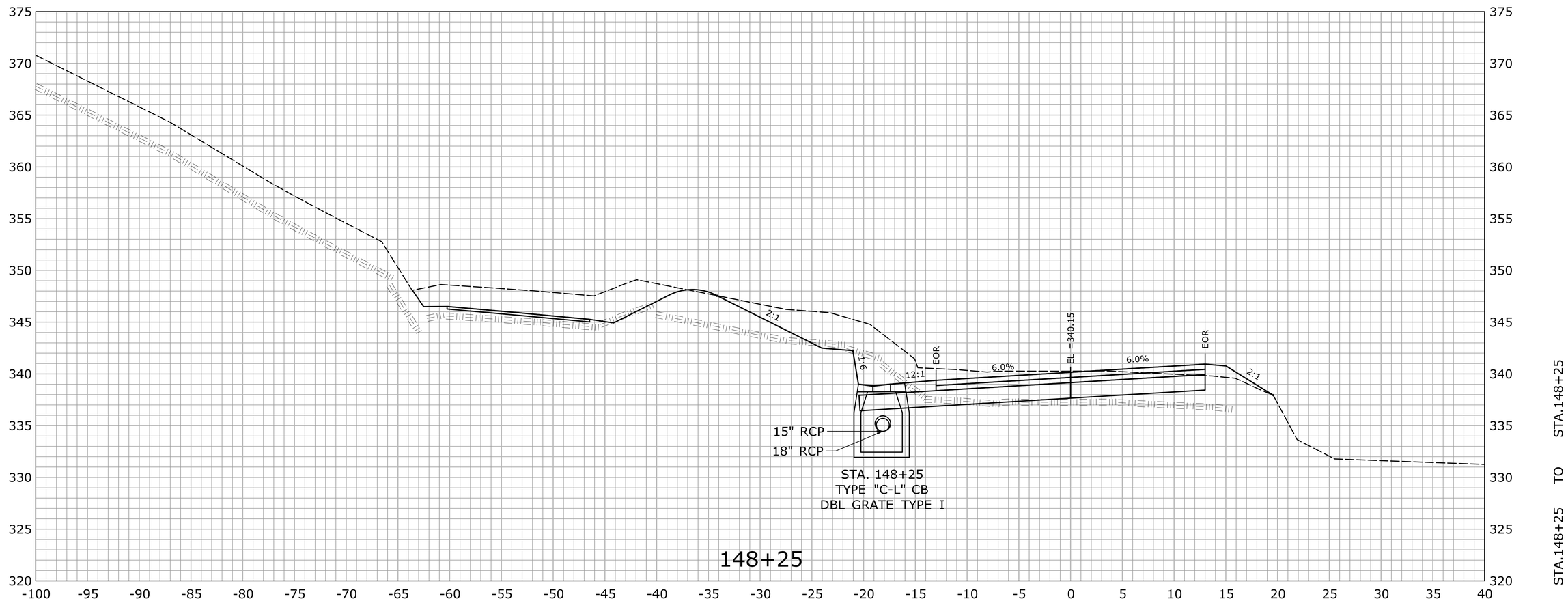
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-185**

SHEET NO. **03.232**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

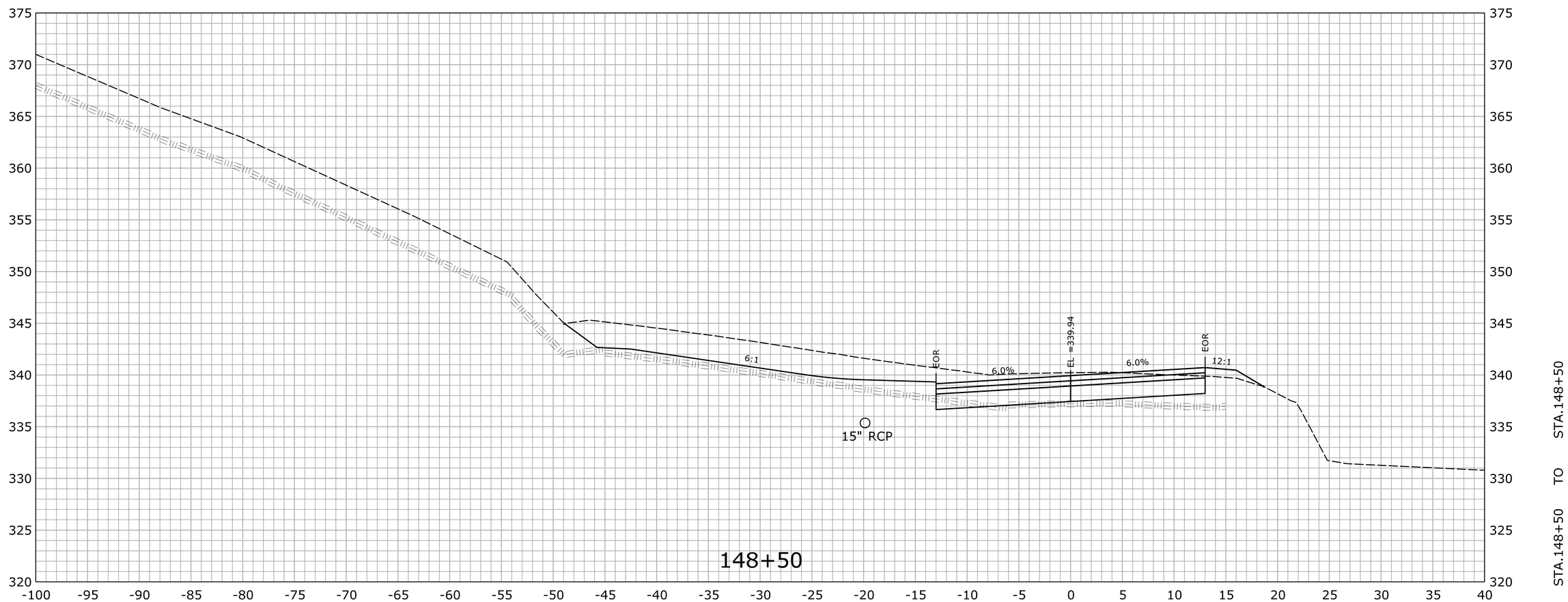
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-186**

SHEET NO. **03.233**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

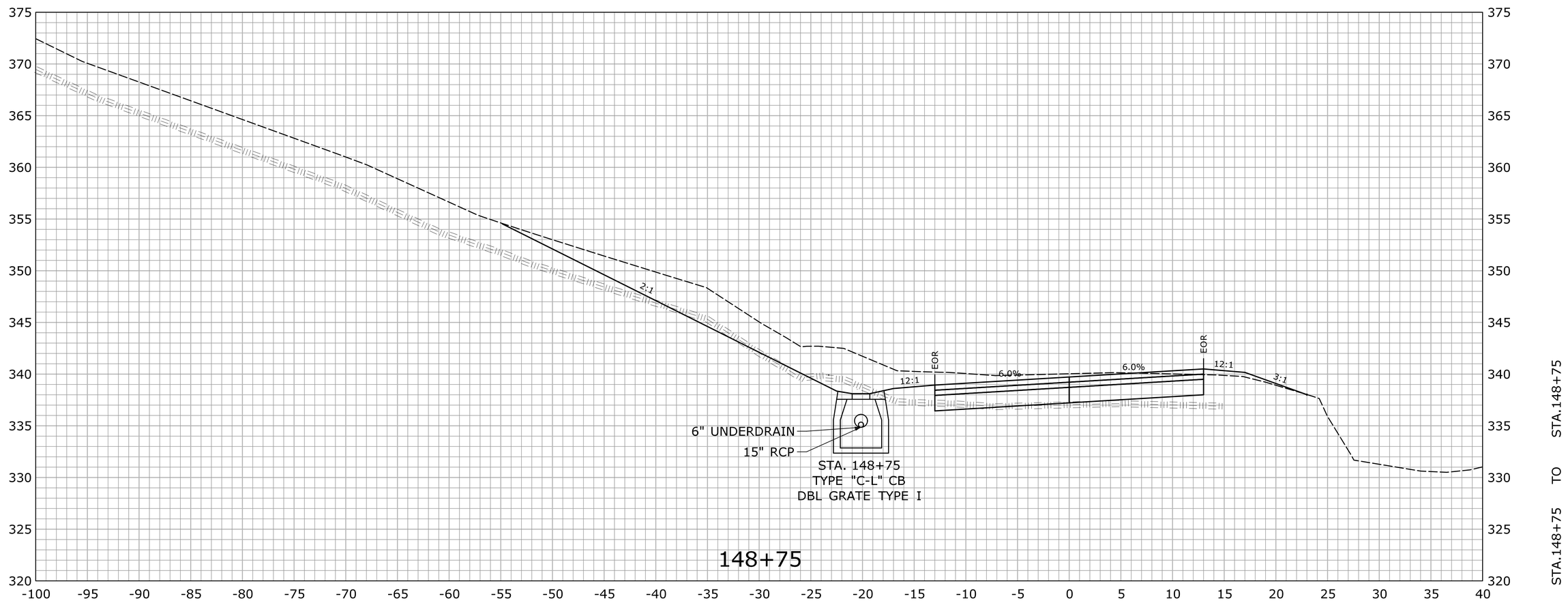
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-187**

SHEET NO. **03.234**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

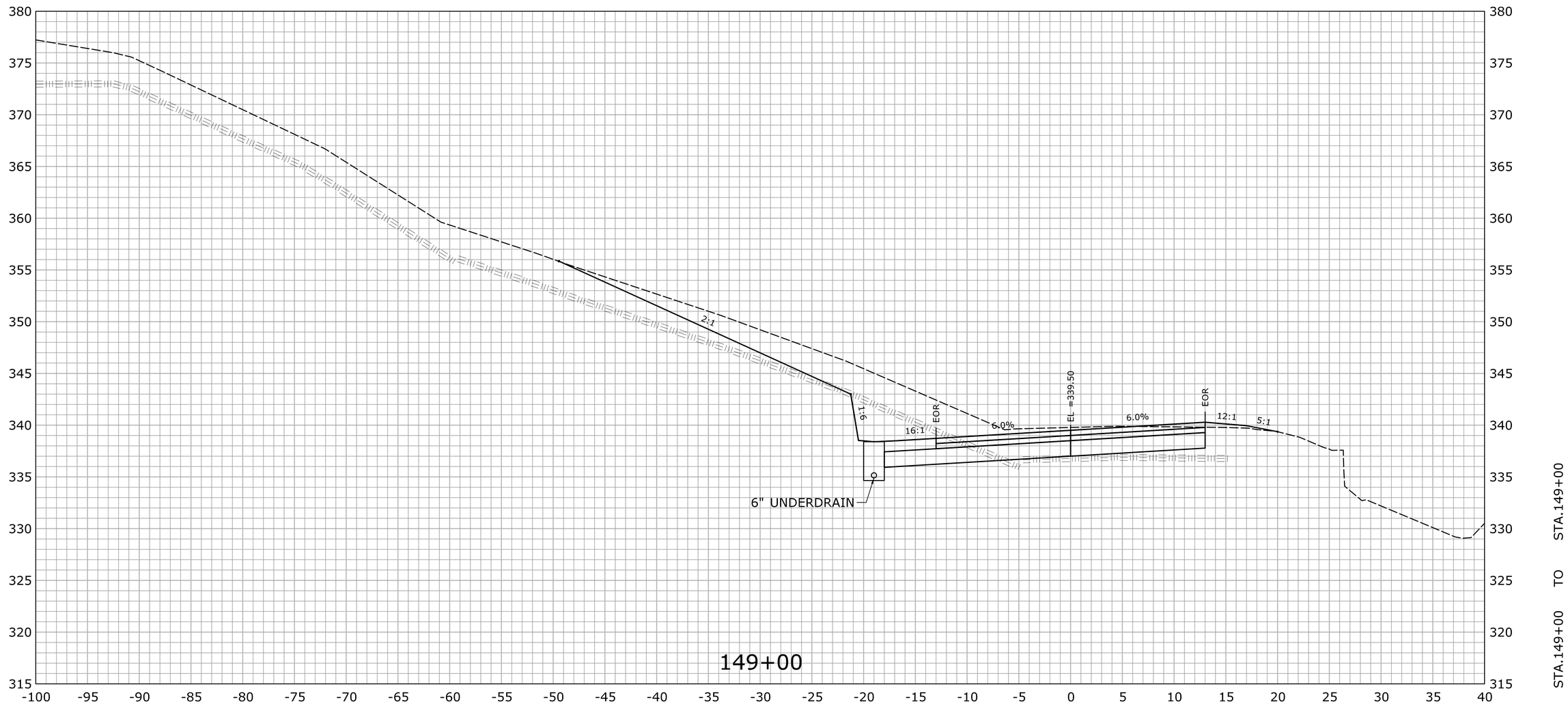
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-188**

SHEET NO. **03.235**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

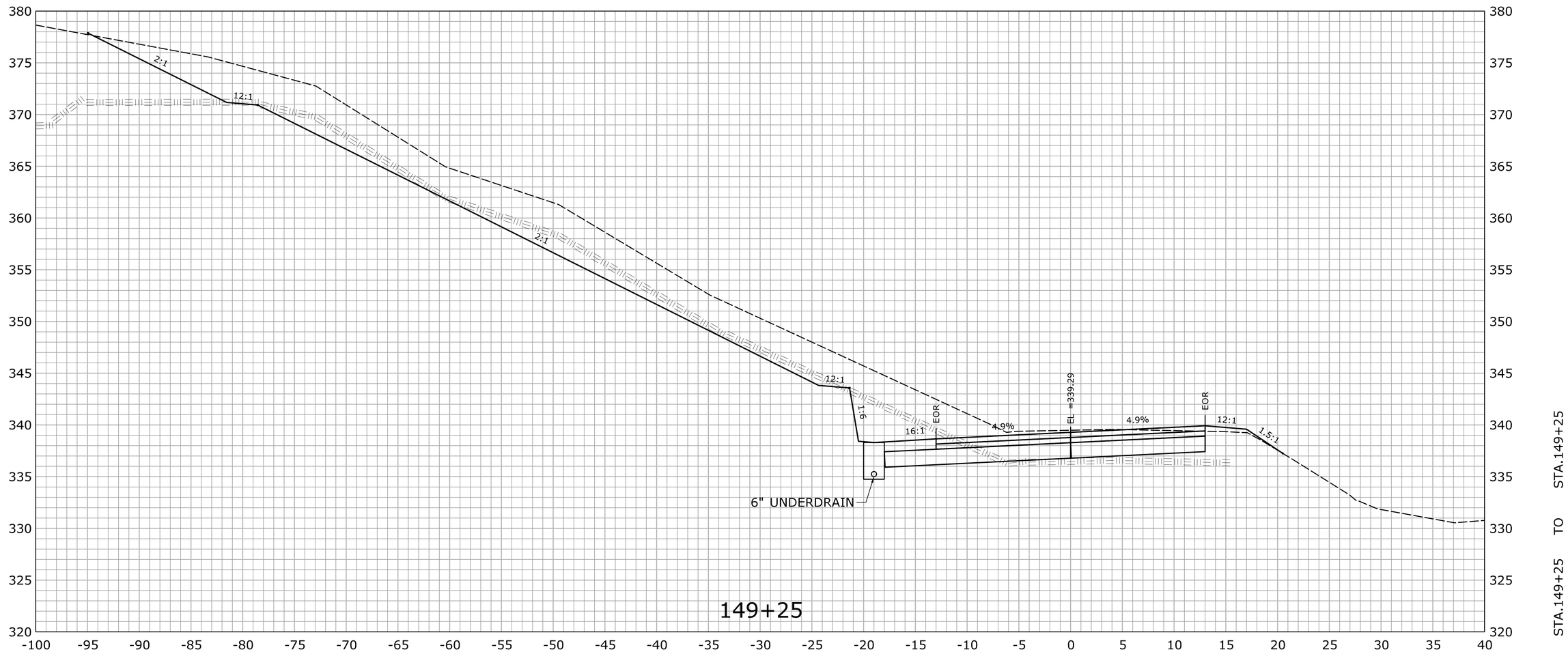
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-189**

SHEET NO. **03.236**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

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Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

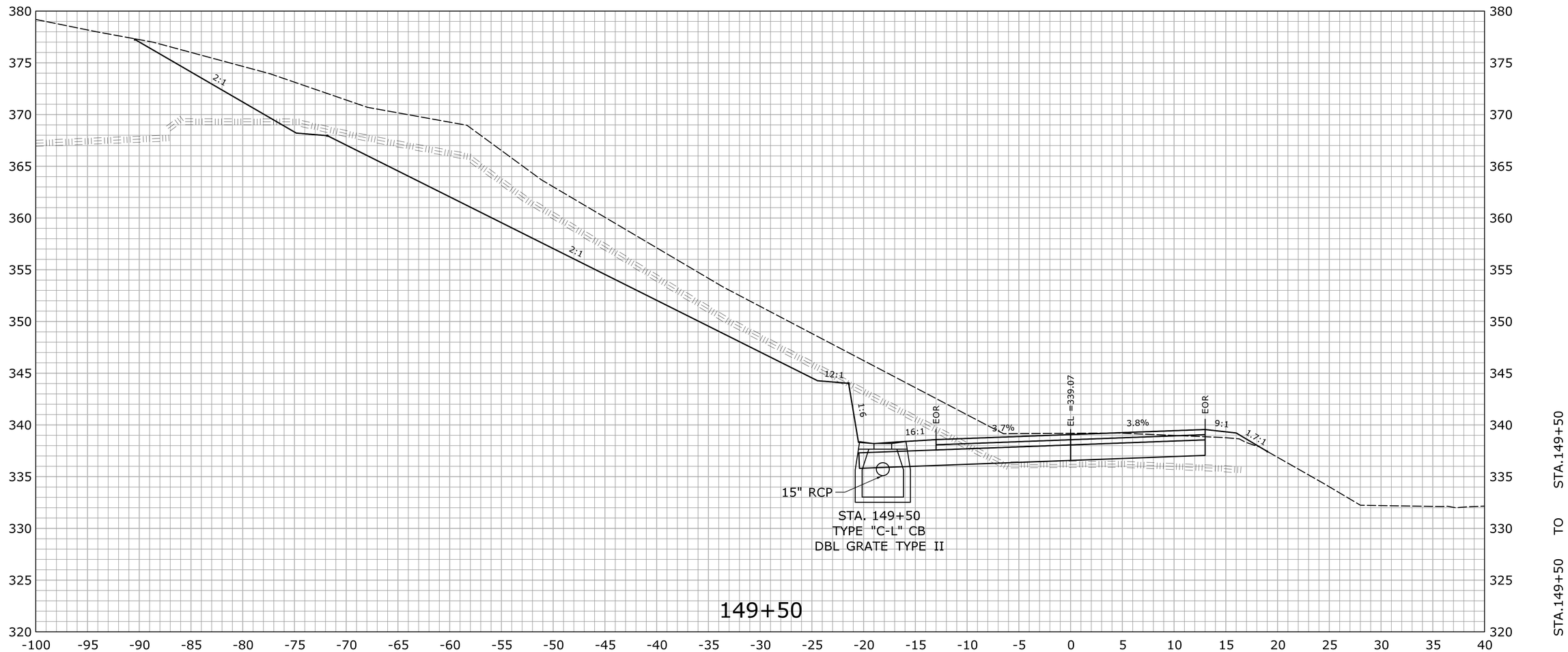
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-190**

SHEET NO. **03.237**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
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Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

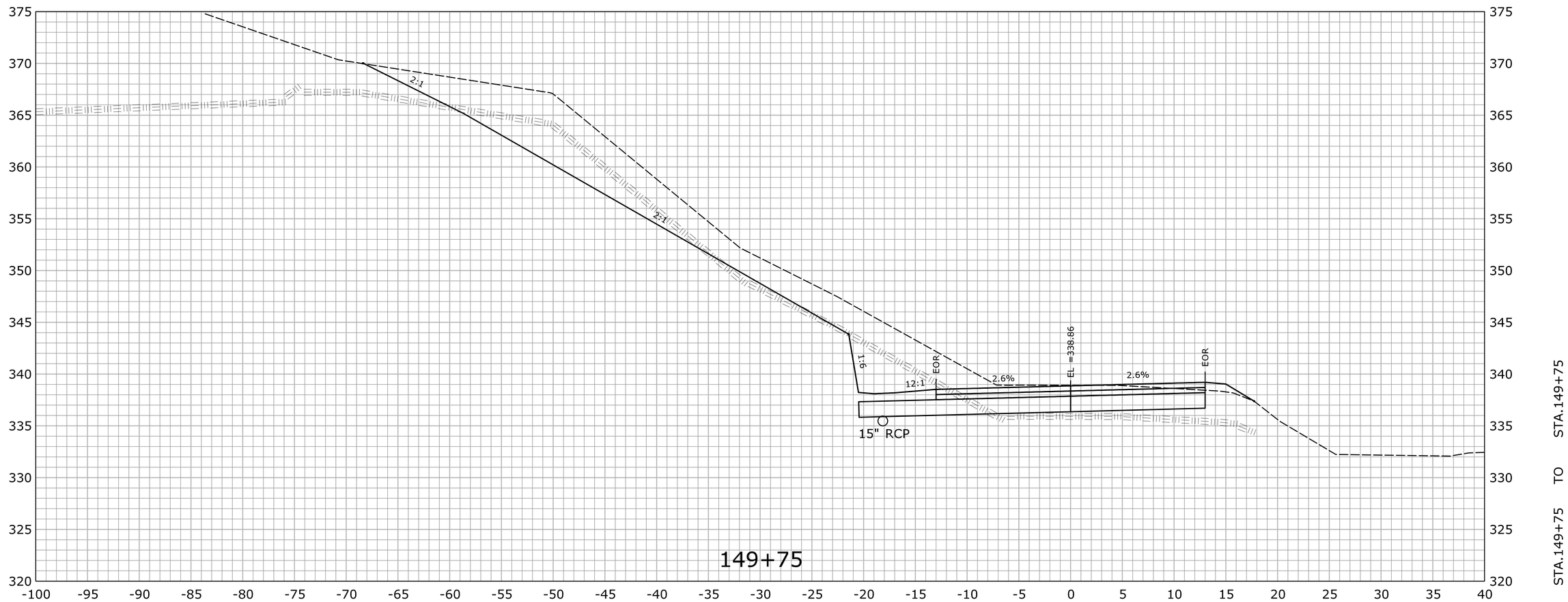
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-191**

SHEET NO. **03.238**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

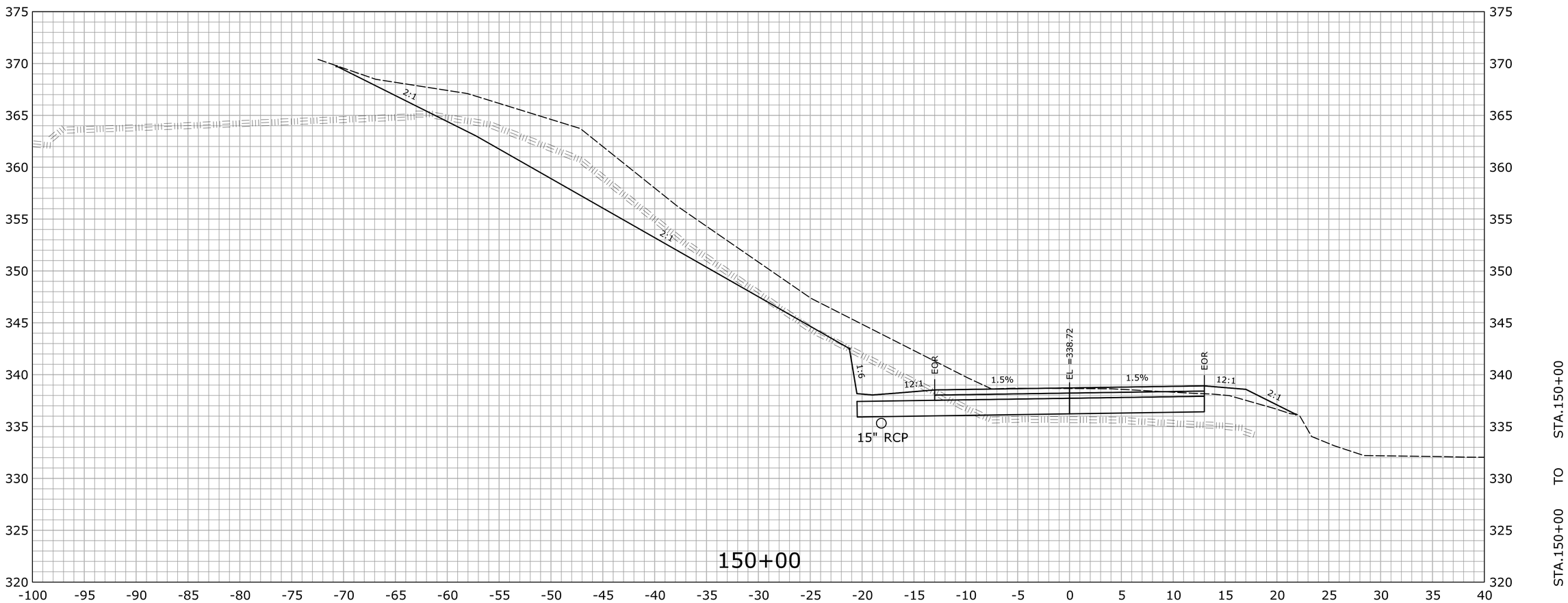
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-192**

SHEET NO. **03.239**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

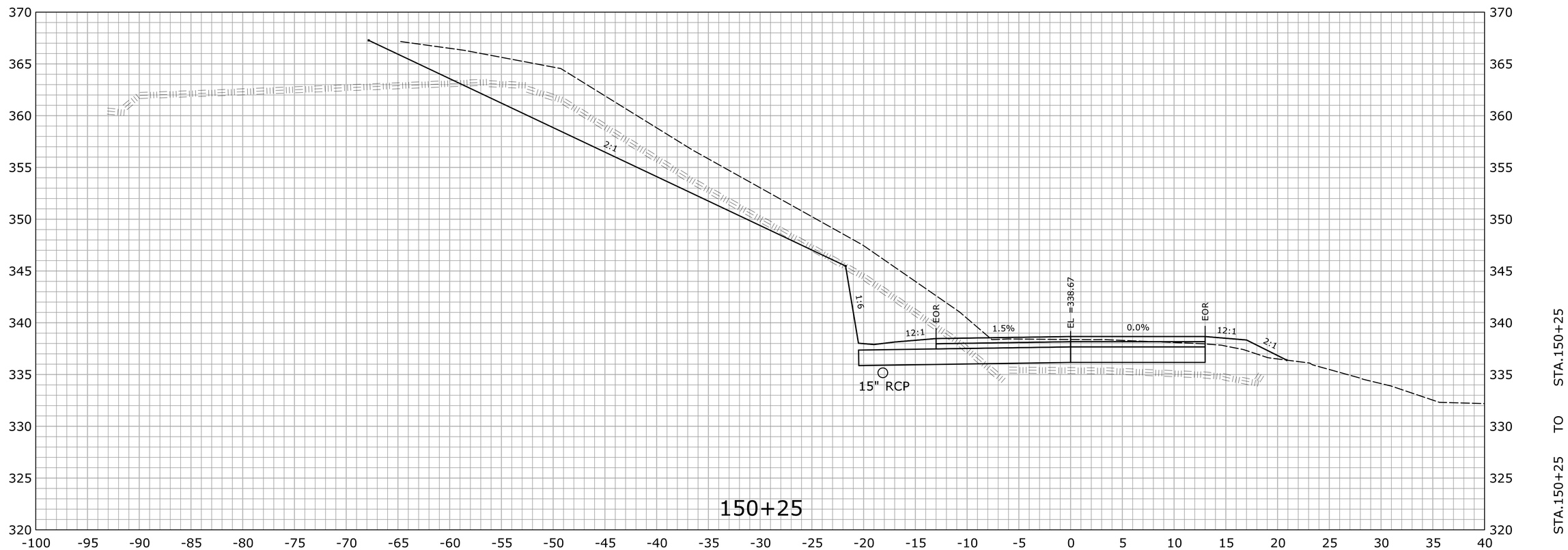
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-193**

SHEET NO. **03.240**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

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APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

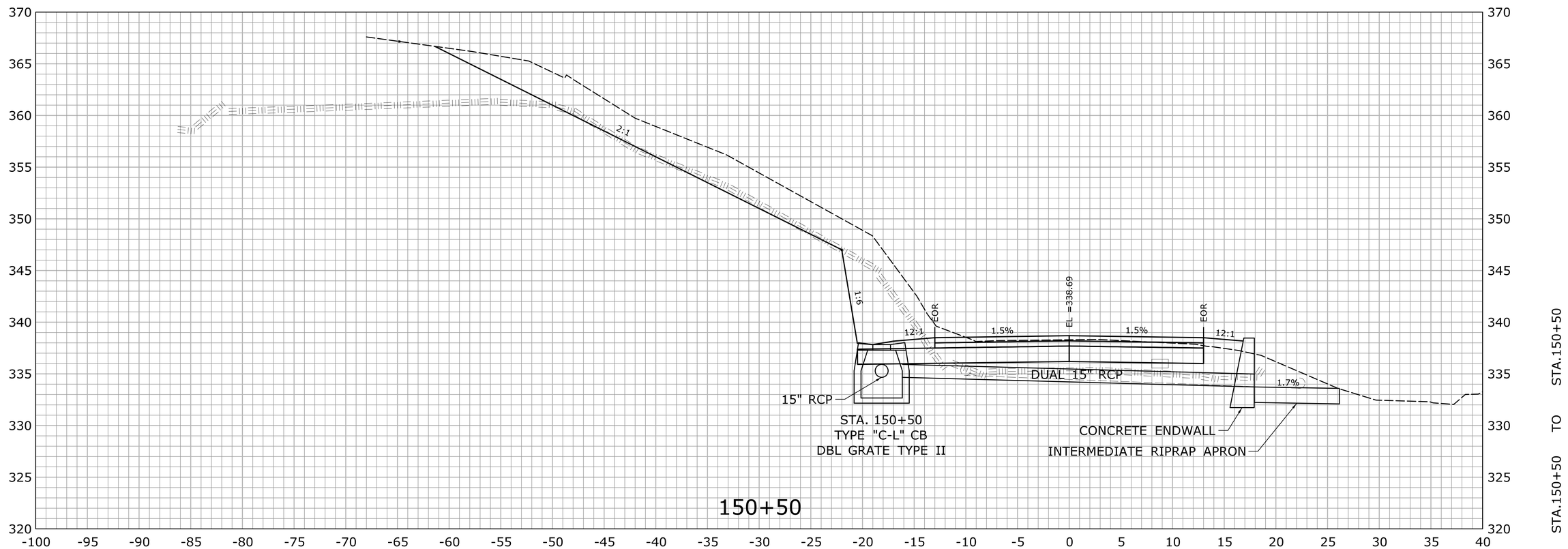
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-194**

SHEET NO. **03.241**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET

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OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

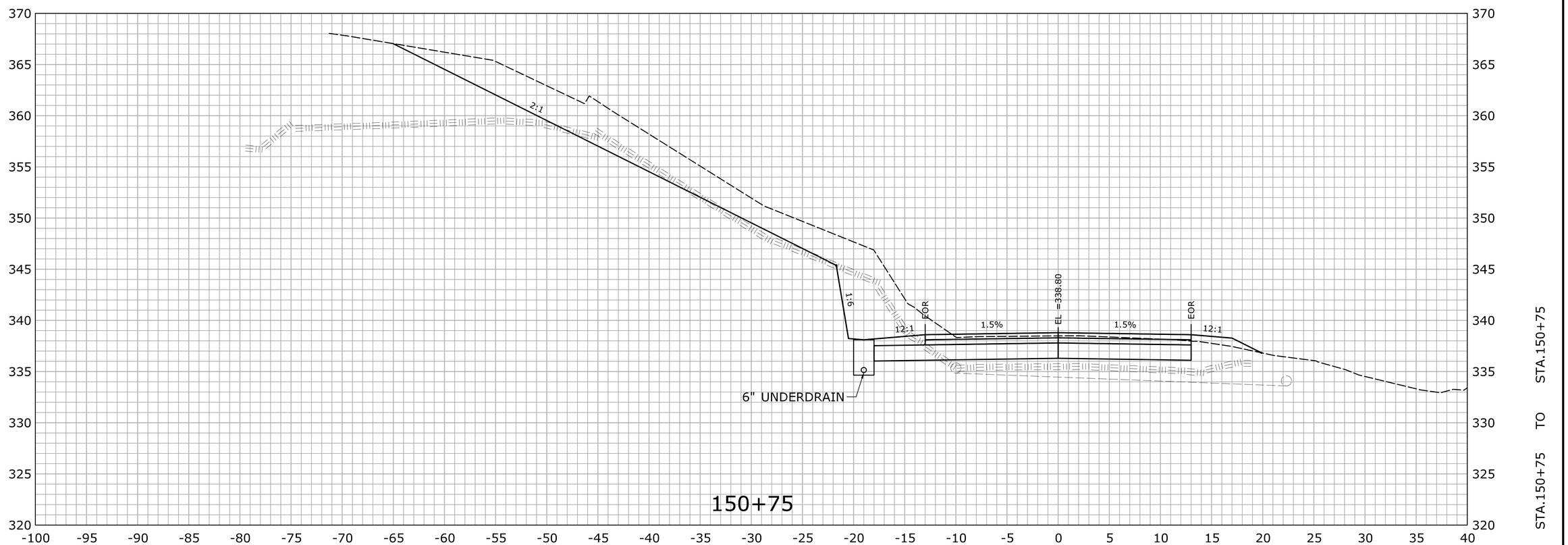
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-195**

SHEET NO. **03.242**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

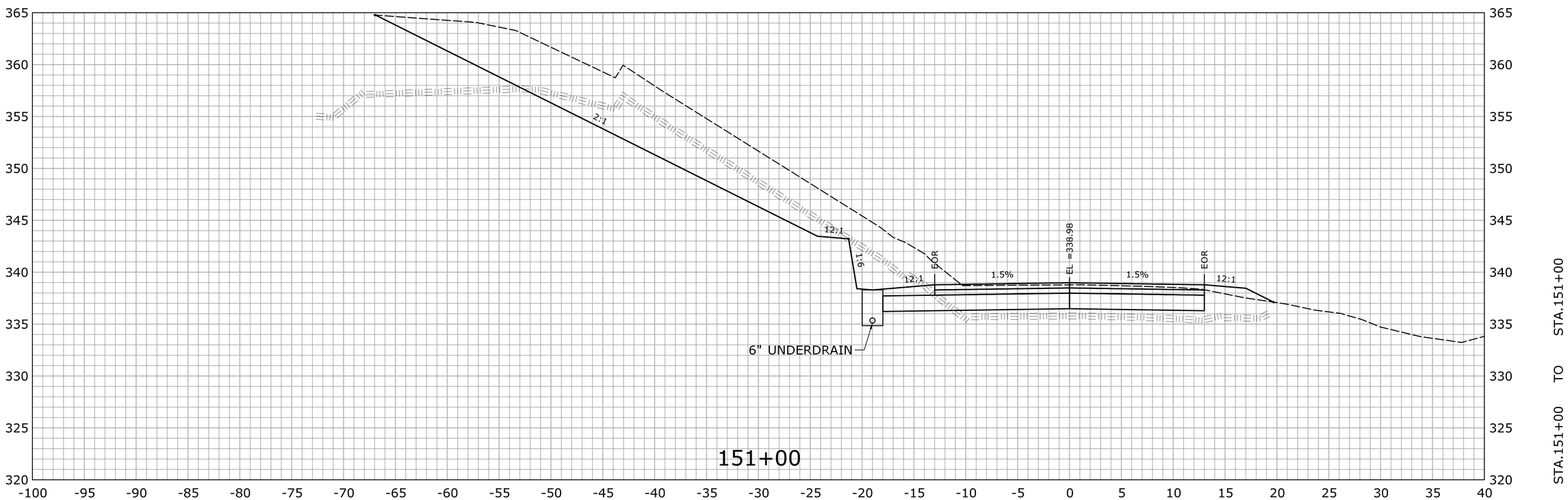
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-196**

SHEET NO. **03.243**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

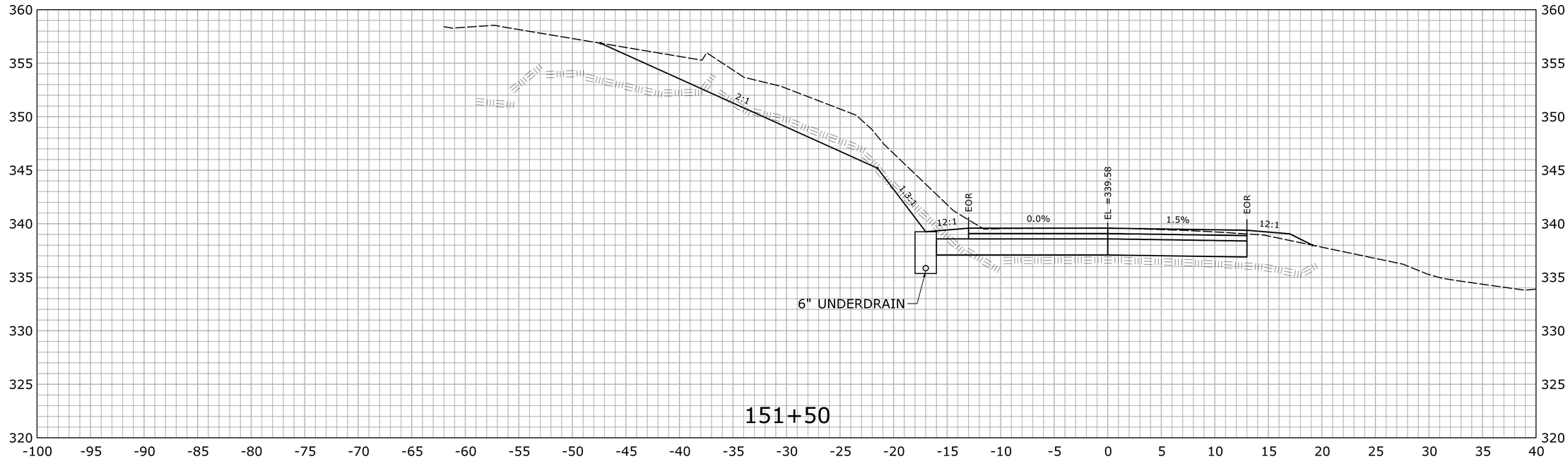
TOWN: **BRIDGEWATER**

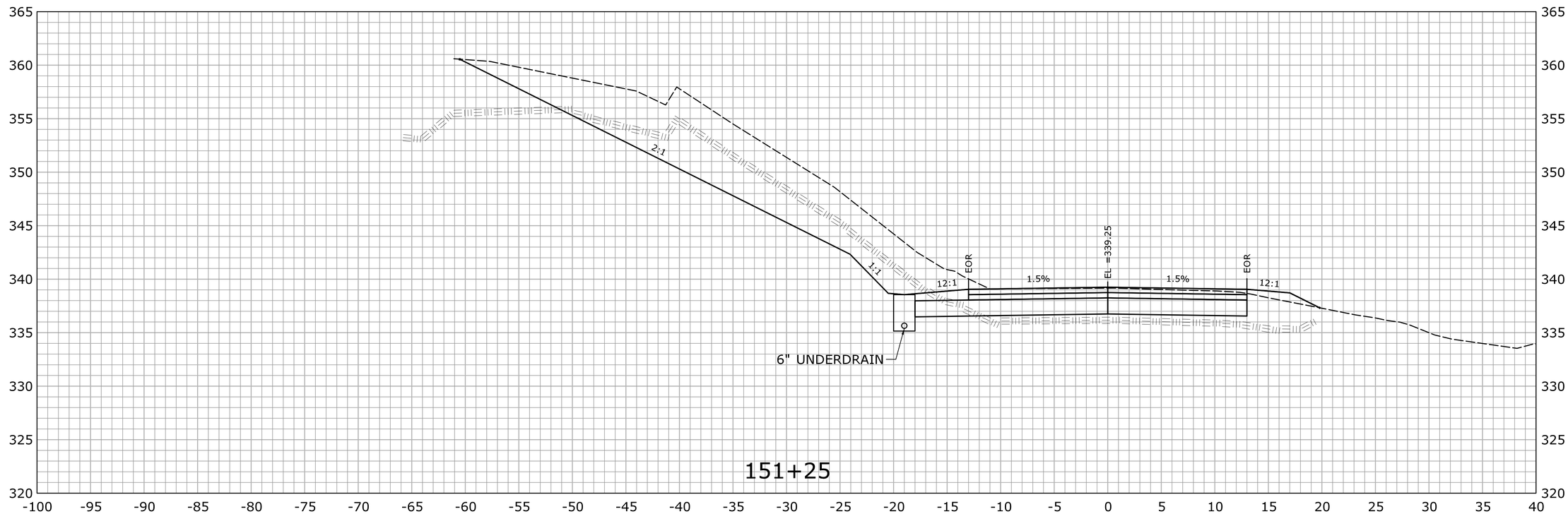
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-197**

SHEET NO. **03.244**





STA.151+25 TO STA.151+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SAFETY IMPROVEMENTS ON ROUTE 133

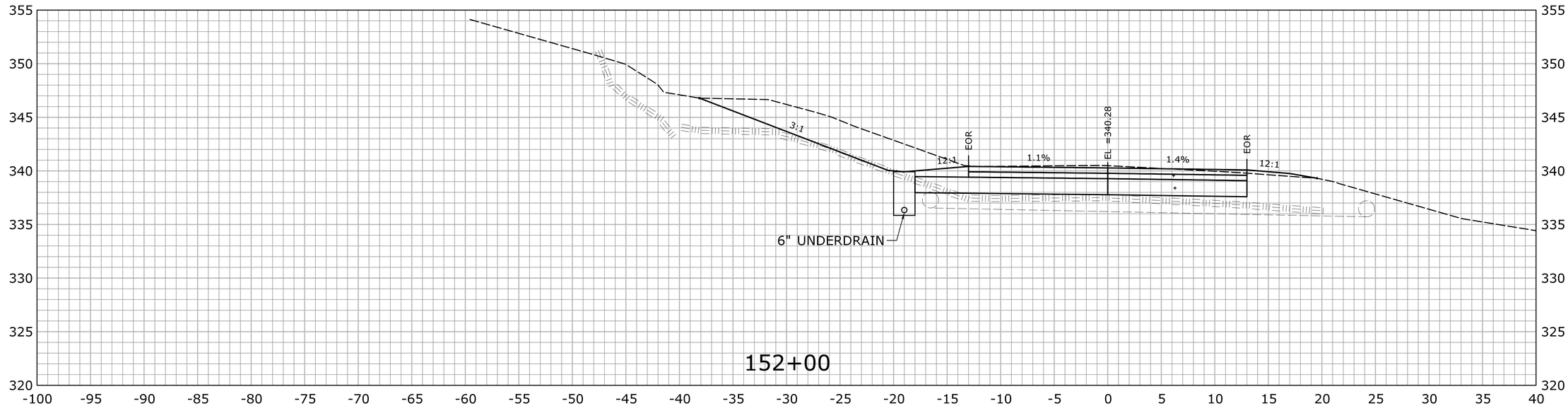
TOWN: **BRIDGEWATER**

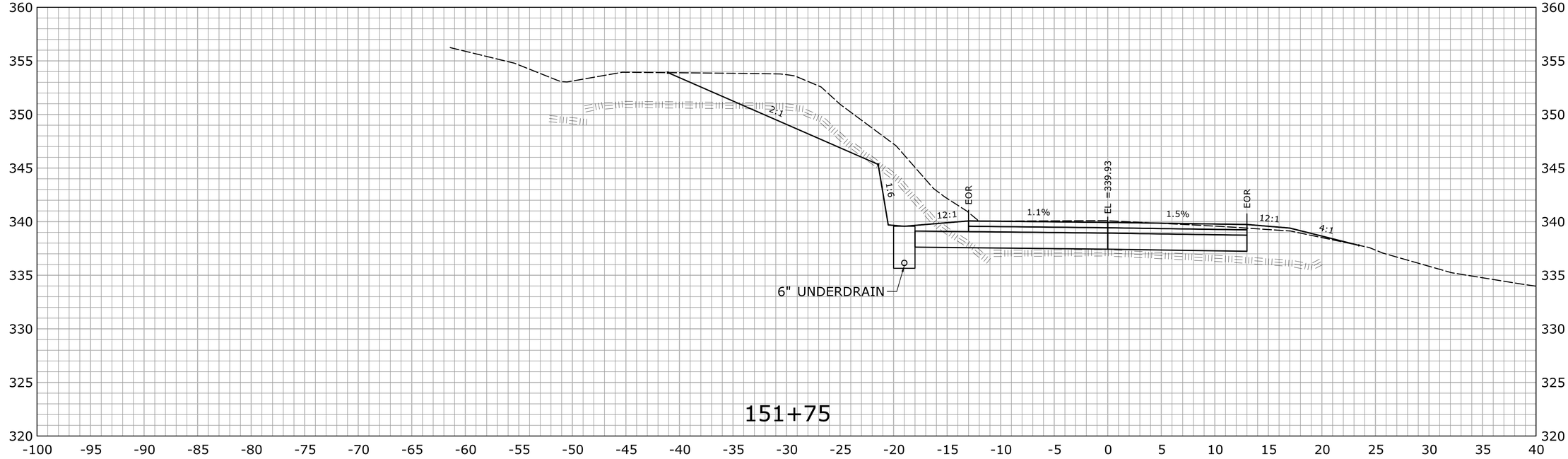
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-198**

SHEET NO. **03.245**





STA.151+75 TO STA.152+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

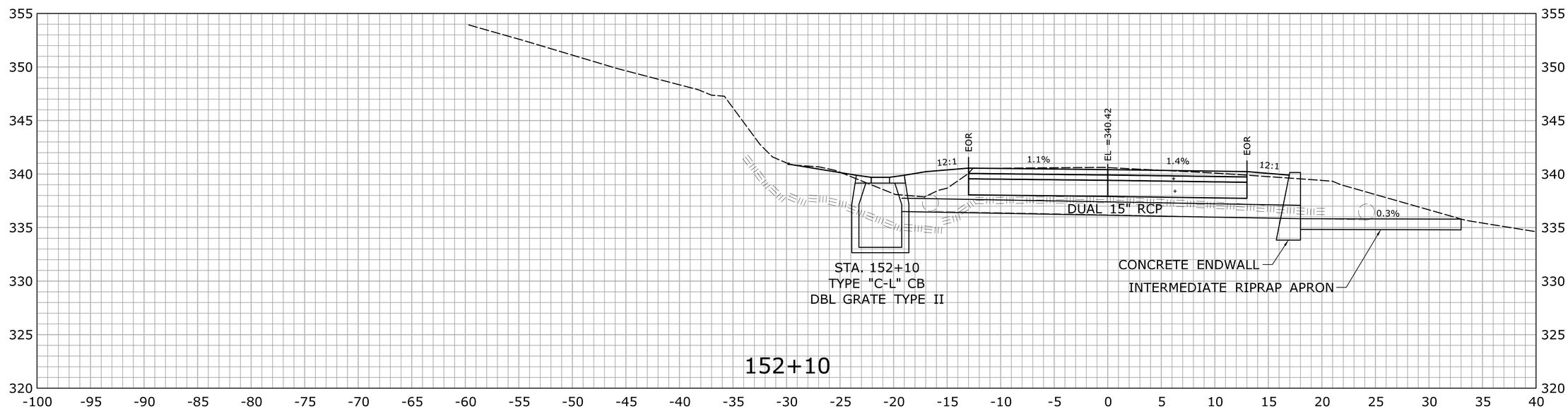
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-199**

SHEET NO. **03.246**



STA.152+10 TO STA.152+25

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

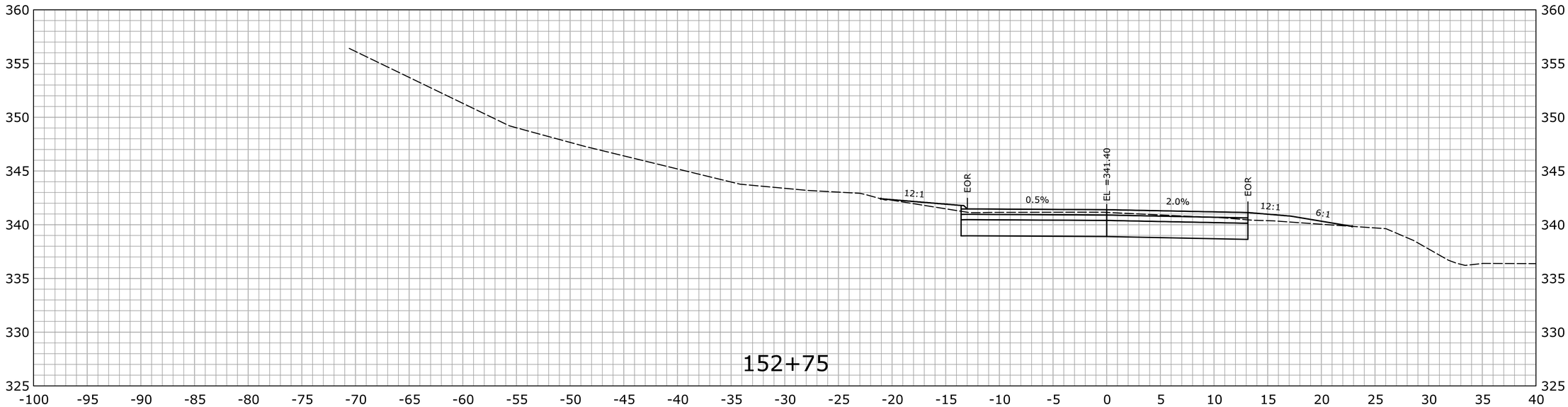
TOWN: **BRIDGEWATER**

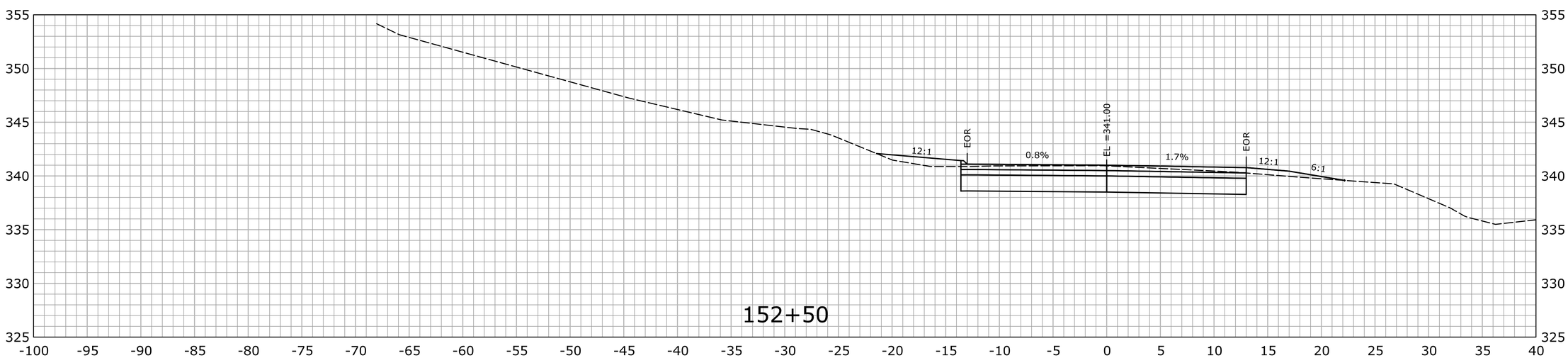
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-200**

SHEET NO. **03.247**





STA.152+50 TO STA.152+75

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

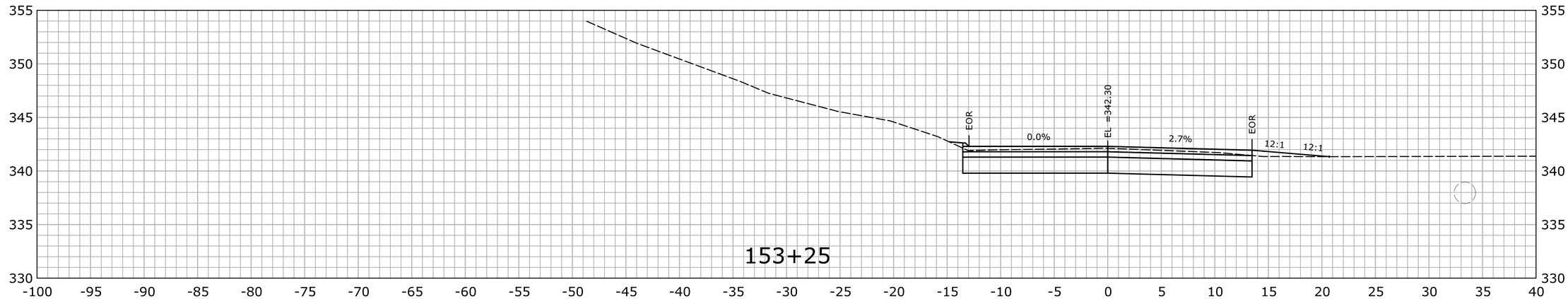
TOWN: **BRIDGEWATER**

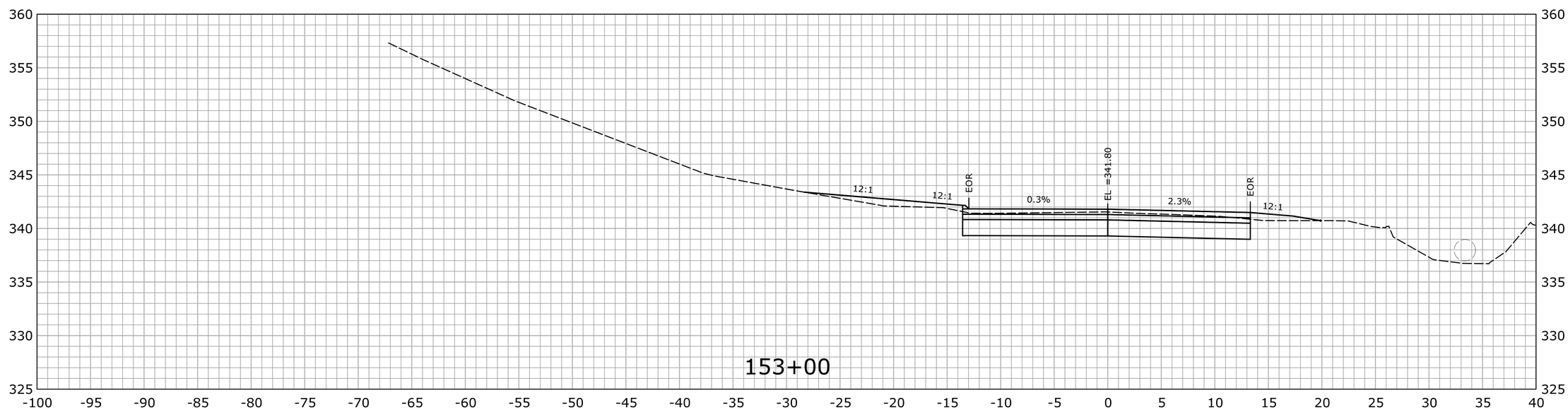
DRAWING TITLE: **CROSS SECTION ROUTE 133**

PROJECT NO. **16-98**

DRAWING NO. **XSC-201**

SHEET NO. **03.248**





STA.153+00 TO STA.153+25

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

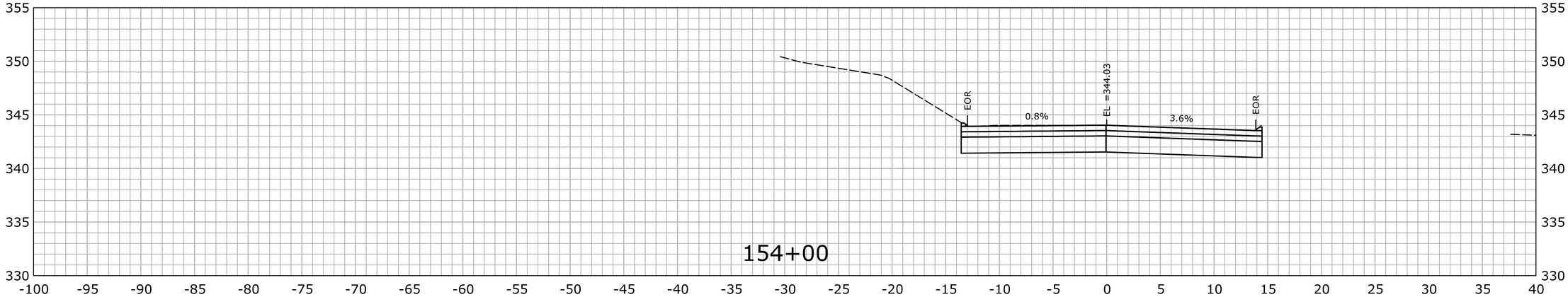
TOWN: **BRIDGEWATER**

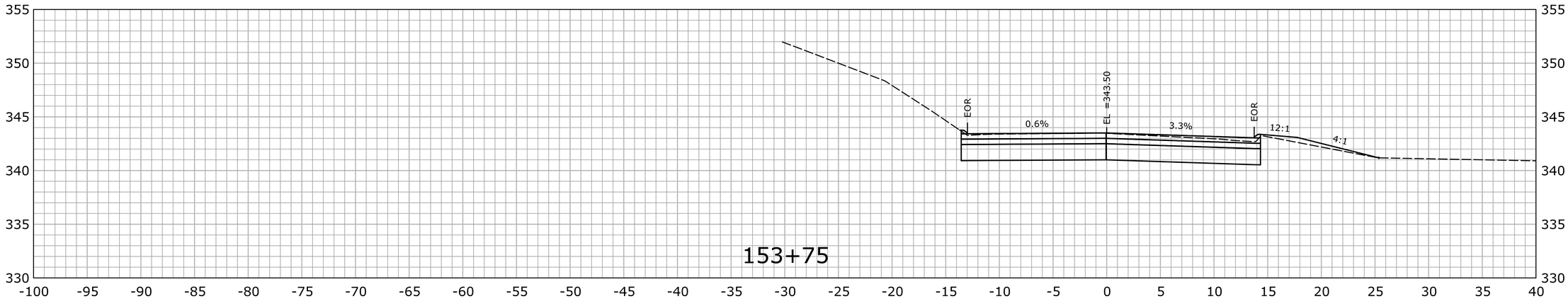
DRAWING TITLE: **CROSS SECTION ROUTE 133**

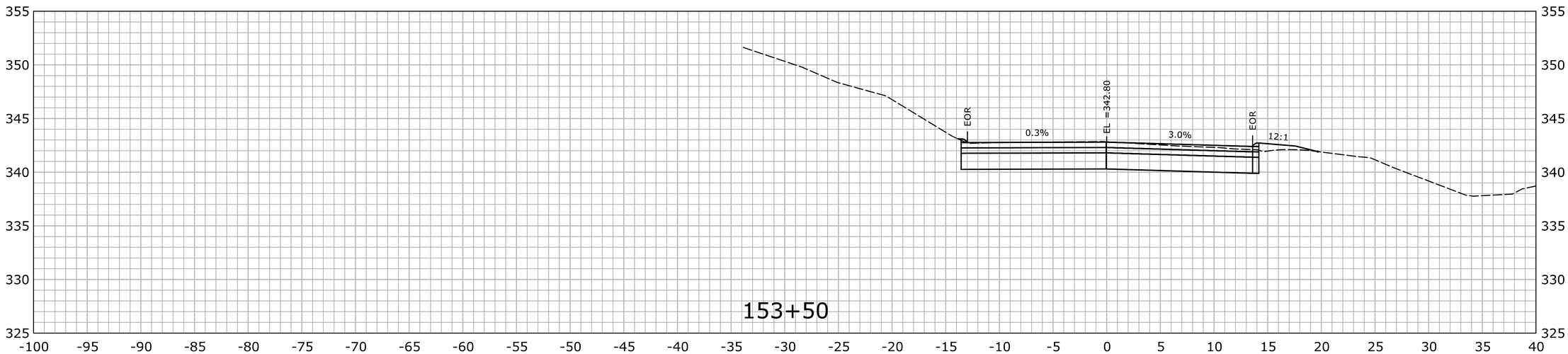
PROJECT NO. **16-98**

DRAWING NO. **XSC-202**

SHEET NO. **03.249**







STA.153+50 TO STA.154+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

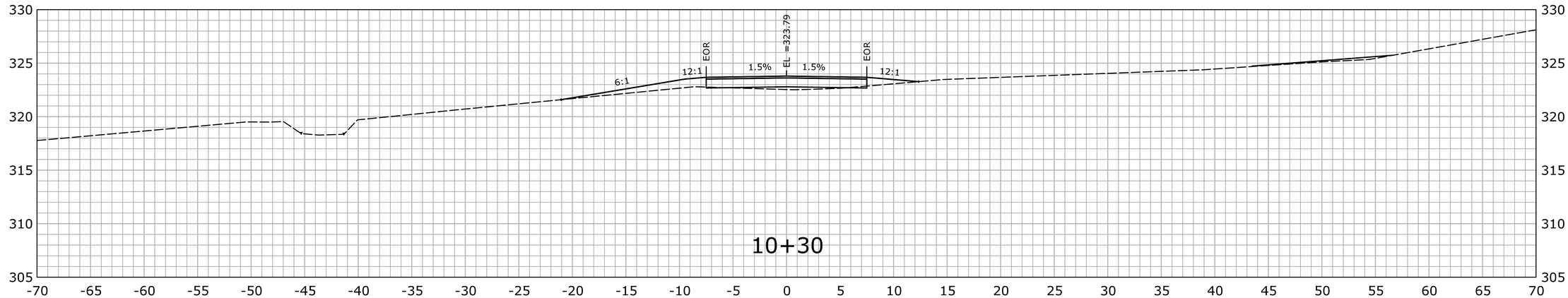
TOWN: **BRIDGEWATER**

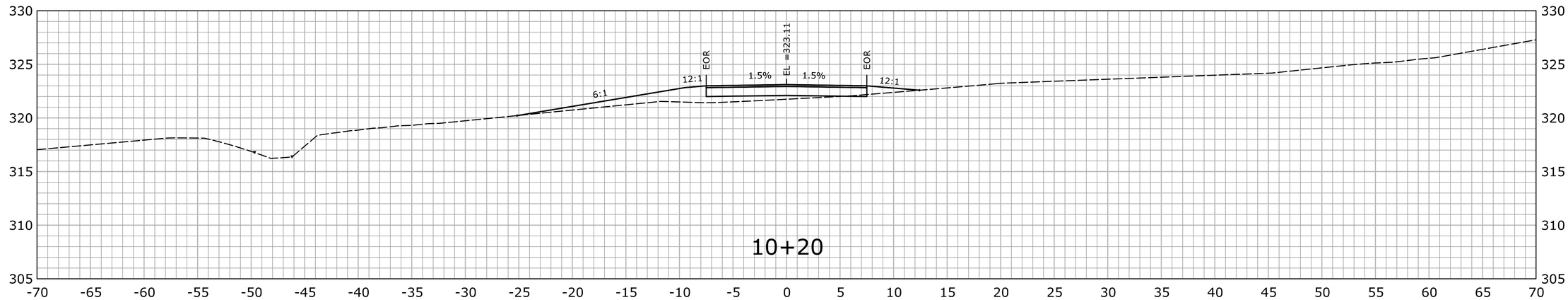
DRAWING TITLE: **CROSS SECTION ROUTE 133**

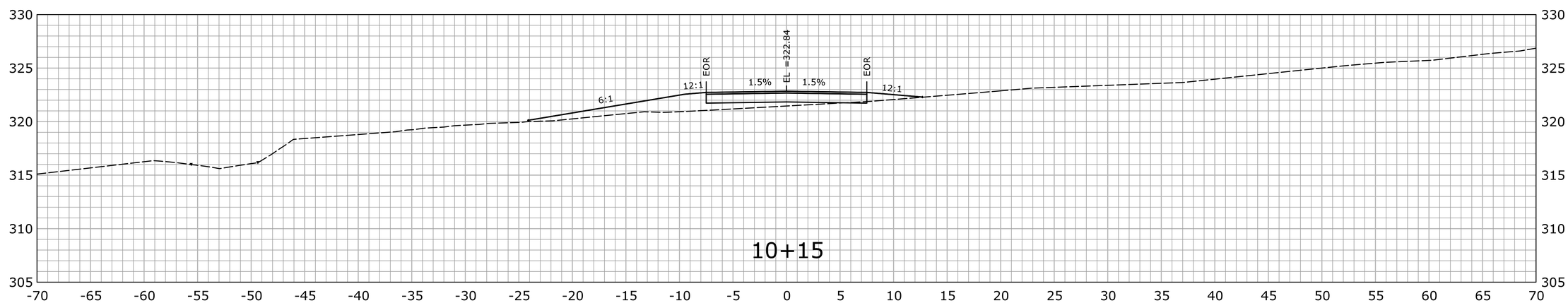
PROJECT NO. **16-98**

DRAWING NO. **XSC-203**

SHEET NO. **03.250**







STA.10+15 TO STA.10+30

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Shook.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

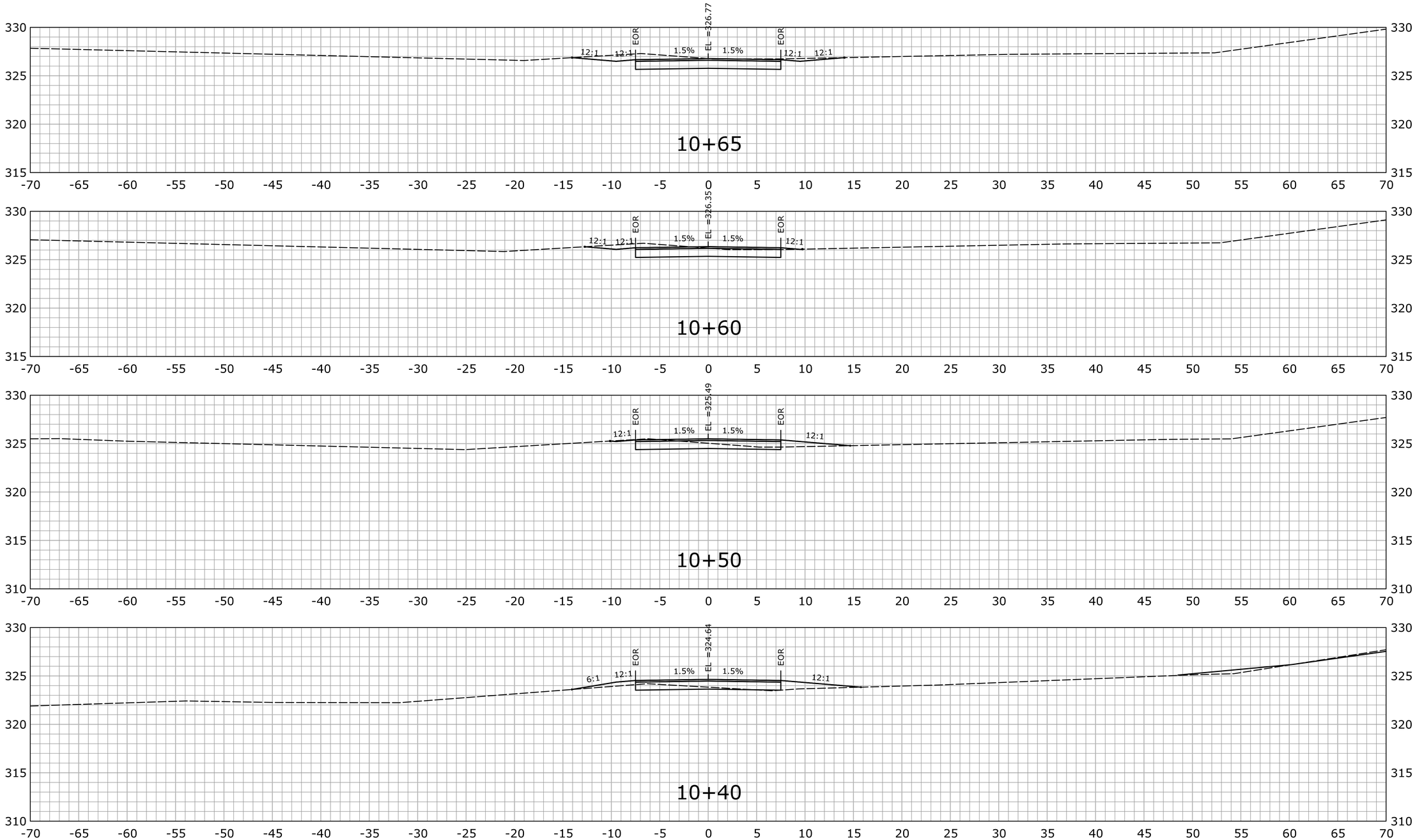
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION DRIVEWAY 1**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW1**

SHEET NO. **03.251**



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Shook.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

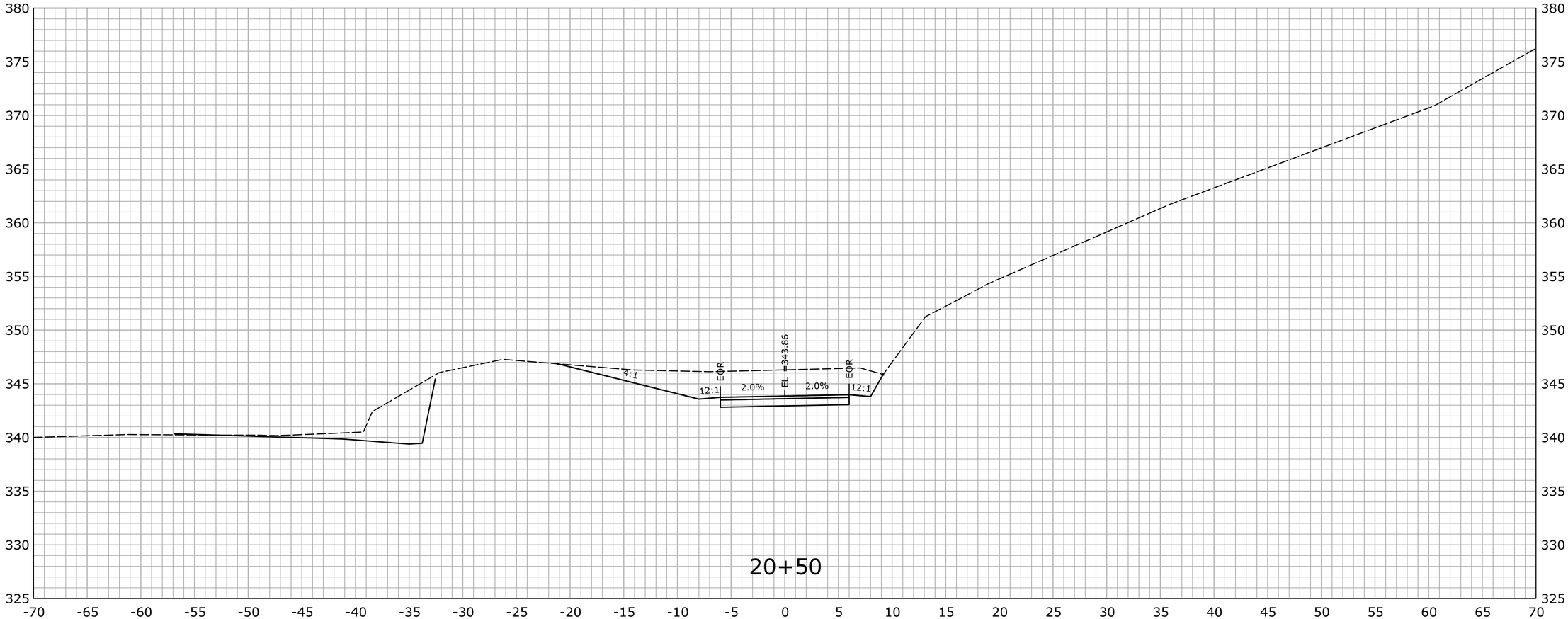
TOWN: **BRIDGEWATER**

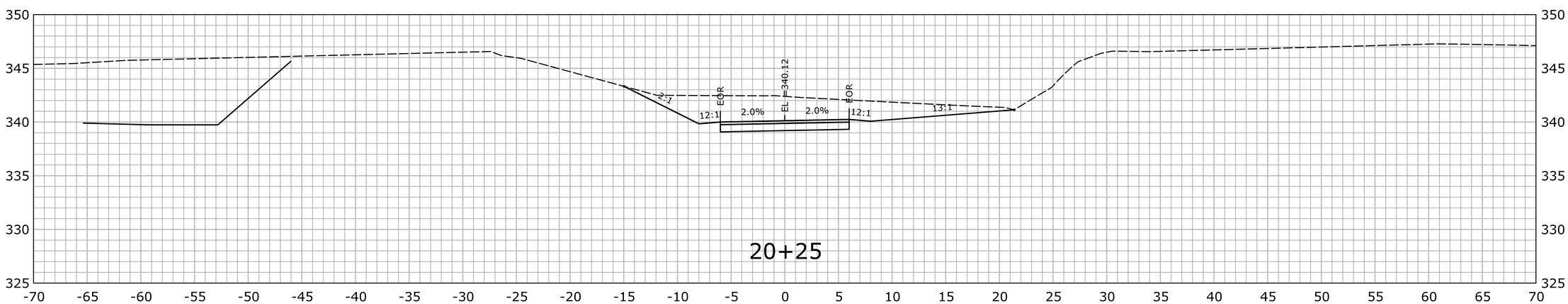
DRAWING TITLE: **CROSS SECTION DRIVEWAY 1**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW2**

SHEET NO. **03.252**





STA.20+25 TO STA.20+50

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Lindblom.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

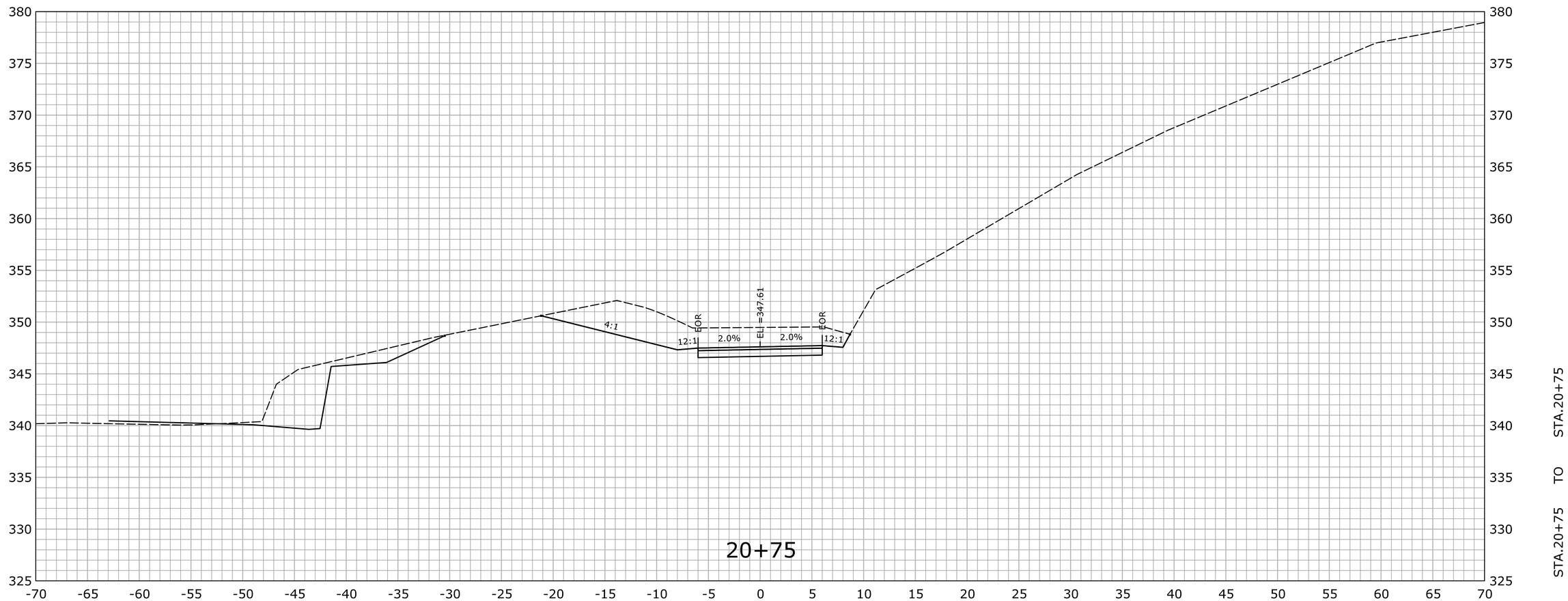
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION DRIVEWAY 2**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW3**

SHEET NO. **03.253**



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Lindblom.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

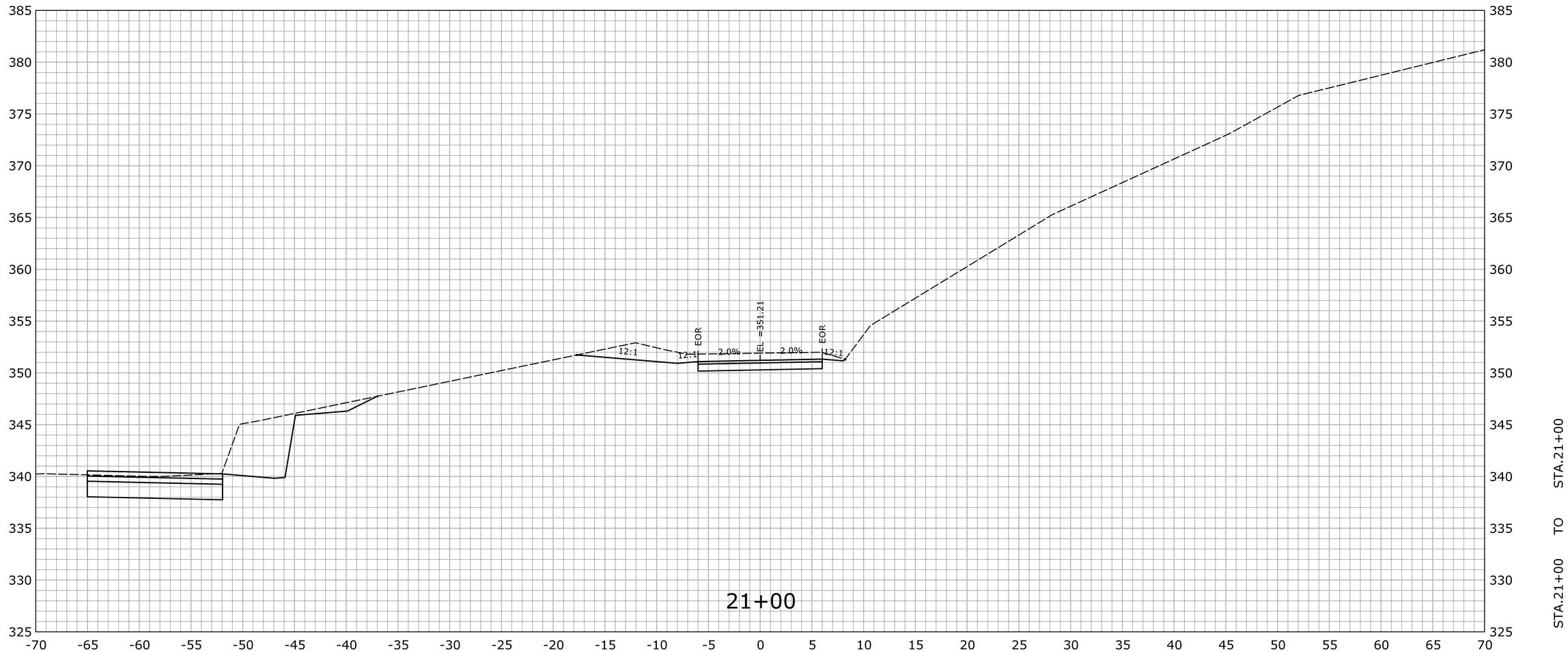
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION DRIVEWAY 2**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW4**

SHEET NO. **03.254**



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Lindblom.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

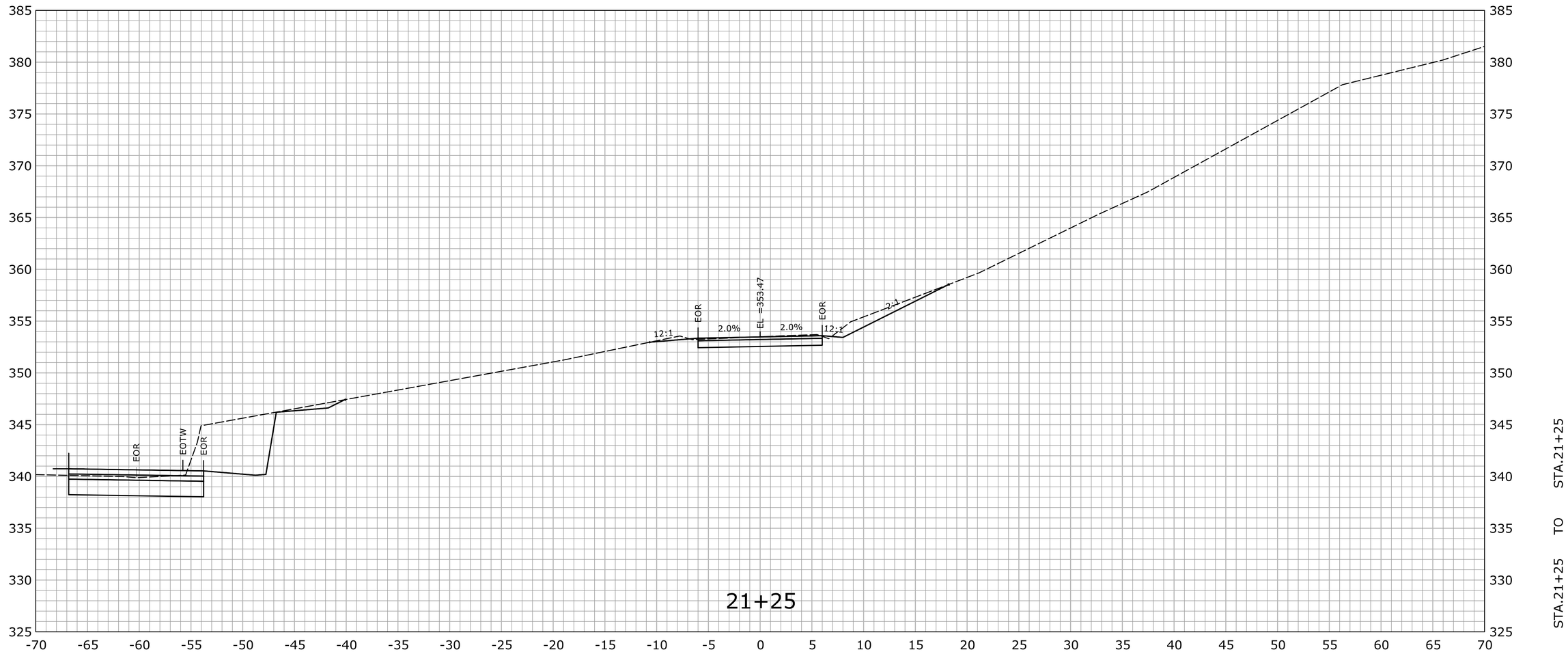
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION DRIVEWAY 2**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW5**

SHEET NO. **03.255**



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Lindblom.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

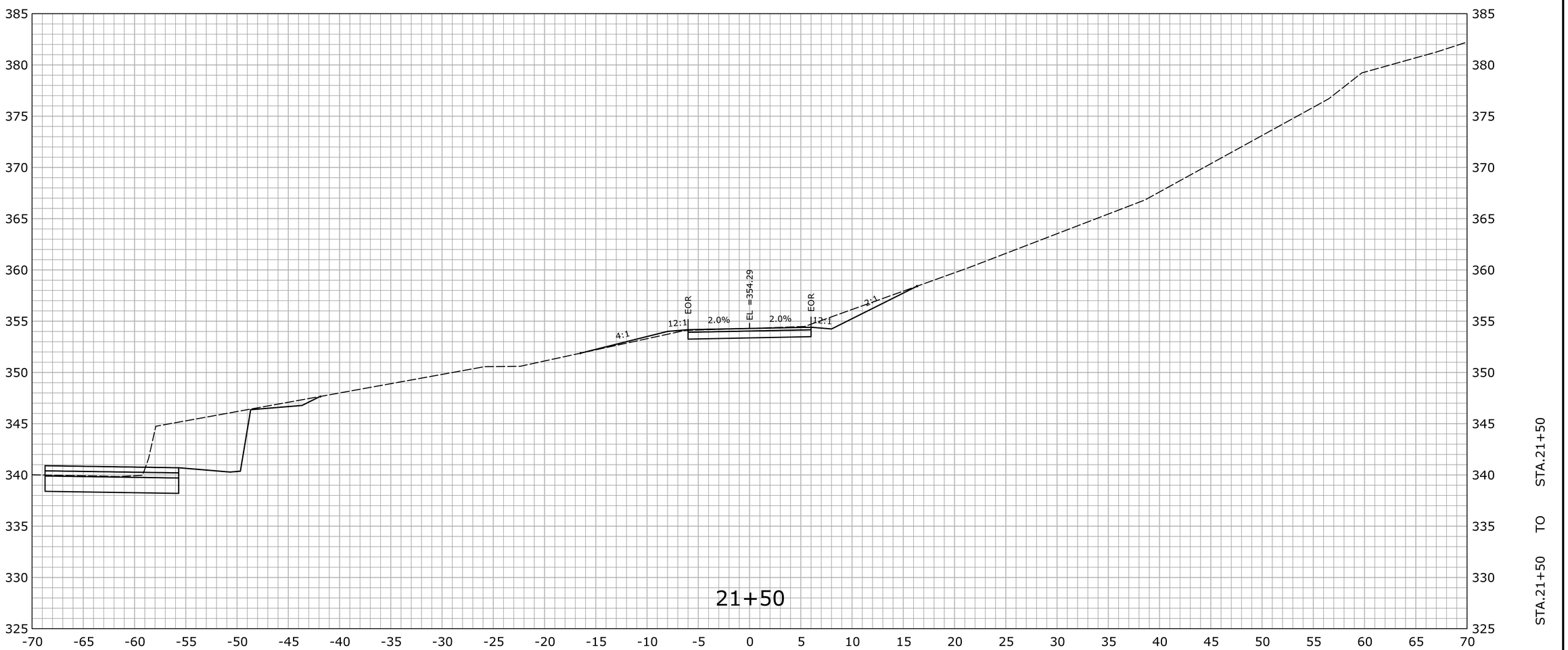
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION DRIVEWAY 2**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW6**

SHEET NO. **03.256**



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Lindblom.dgn

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APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

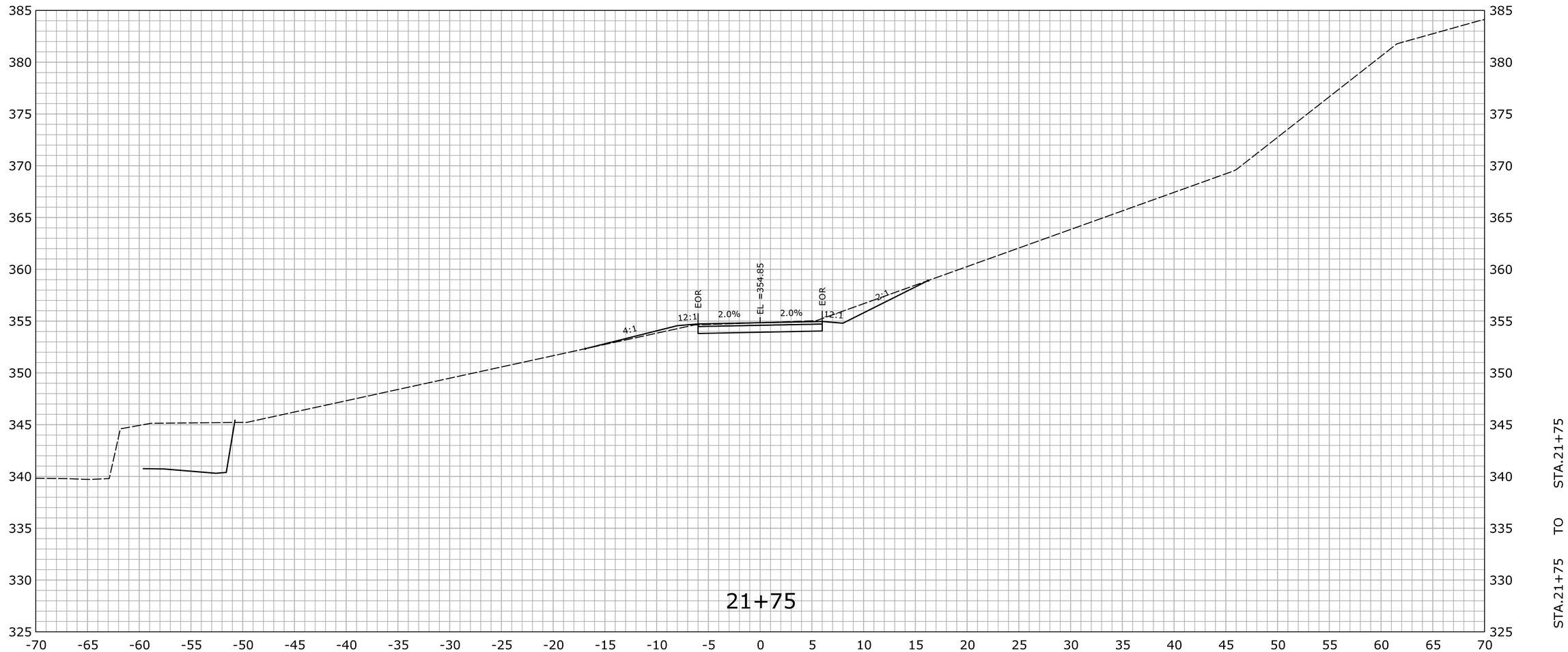
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION DRIVEWAY 2**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW7**

SHEET NO. **03.257**



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Lindblom.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

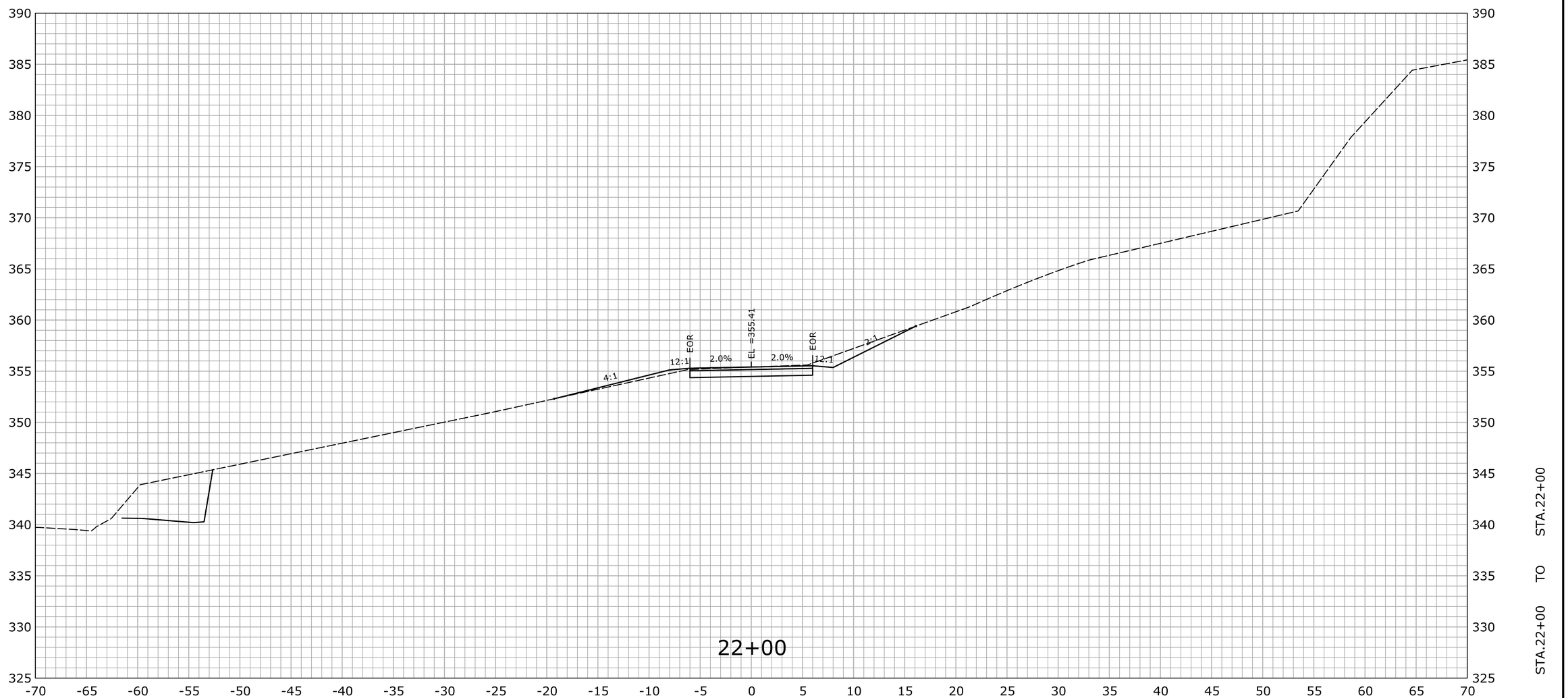
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION DRIVEWAY 2**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW8**

SHEET NO. **03.258**



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Lindblom.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

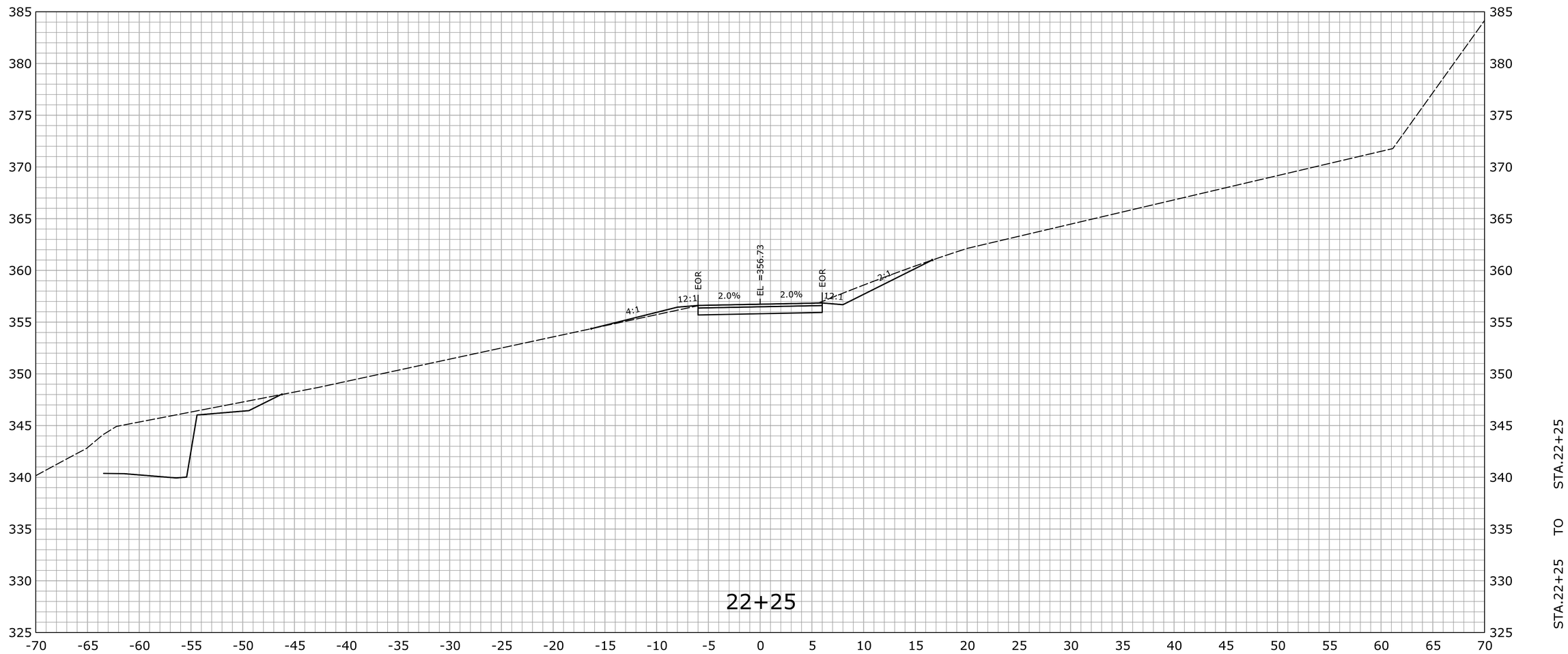
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION DRIVEWAY 2**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW9**

SHEET NO. **03.259**



FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Lindblom.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: DATE:

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

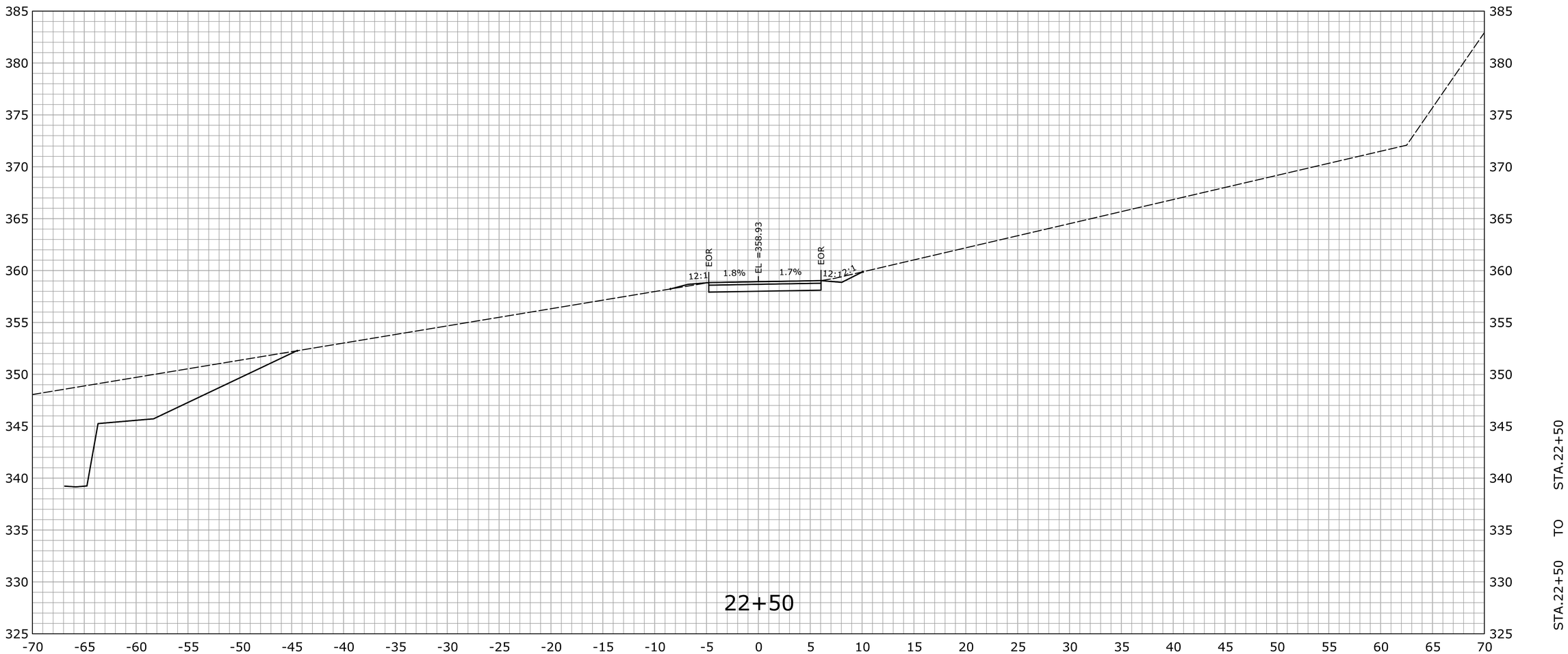
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION DRIVEWAY 2**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW10**

SHEET NO. **03.260**



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REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **EBS**

CHECKED BY: **JDP**

SCALE IN FEET

0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MST_0016_0098_DSGN_XSCPro_Lindblom.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

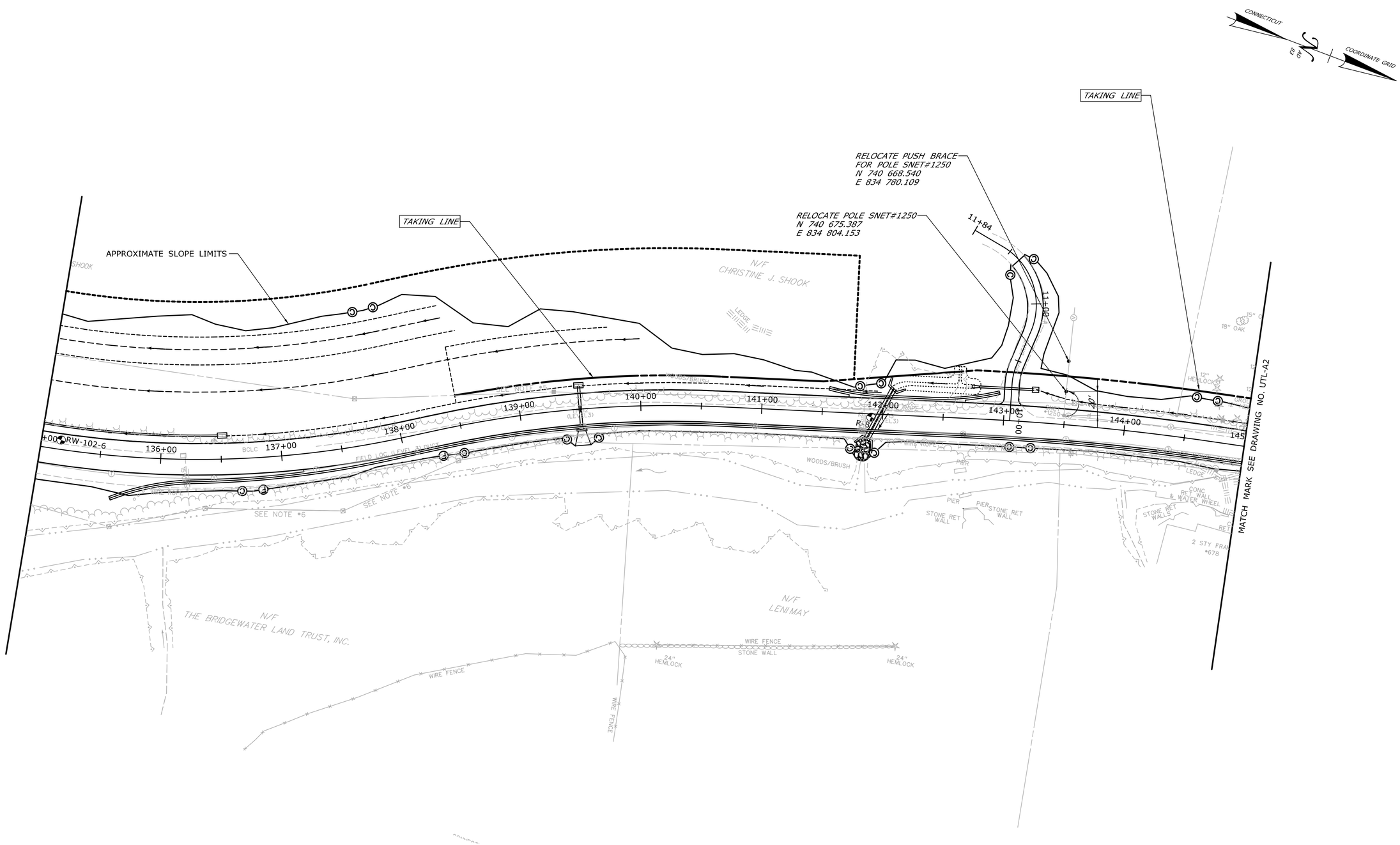
TOWN: **BRIDGEWATER**

DRAWING TITLE: **CROSS SECTION DRIVEWAY 2**

PROJECT NO. **16-98**

DRAWING NO. **XSC-DW11**

SHEET NO. **03.261**



RELOCATION PROPOSAL - 4/3/14
THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **GH**

CHECKED BY:

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_UTIL-A1.dgn

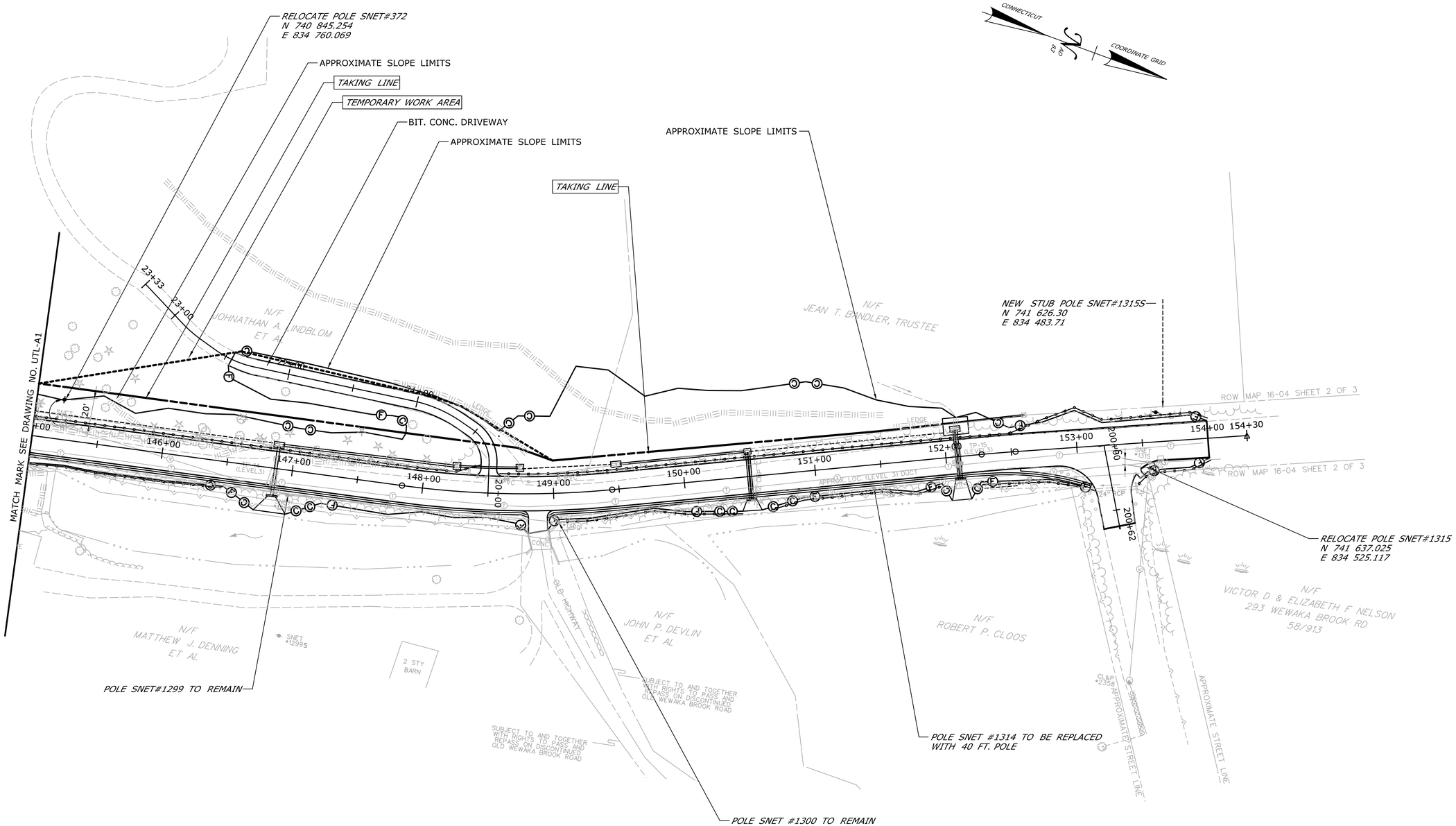
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE:
OVERHEAD UTILITY PLAN SHEET STA. 135+00 TO STA. 145+00

PROJECT NO. **016-0098**
DRAWING NO. **UTL-A1**
SHEET NO. **03.262**



RELOCATION PROPOSAL - 4/3/14
THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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Plotted Date: 3/1/2016

DESIGNER/DRAFTER: **GH**

CHECKED BY:

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_UTIL-A2.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

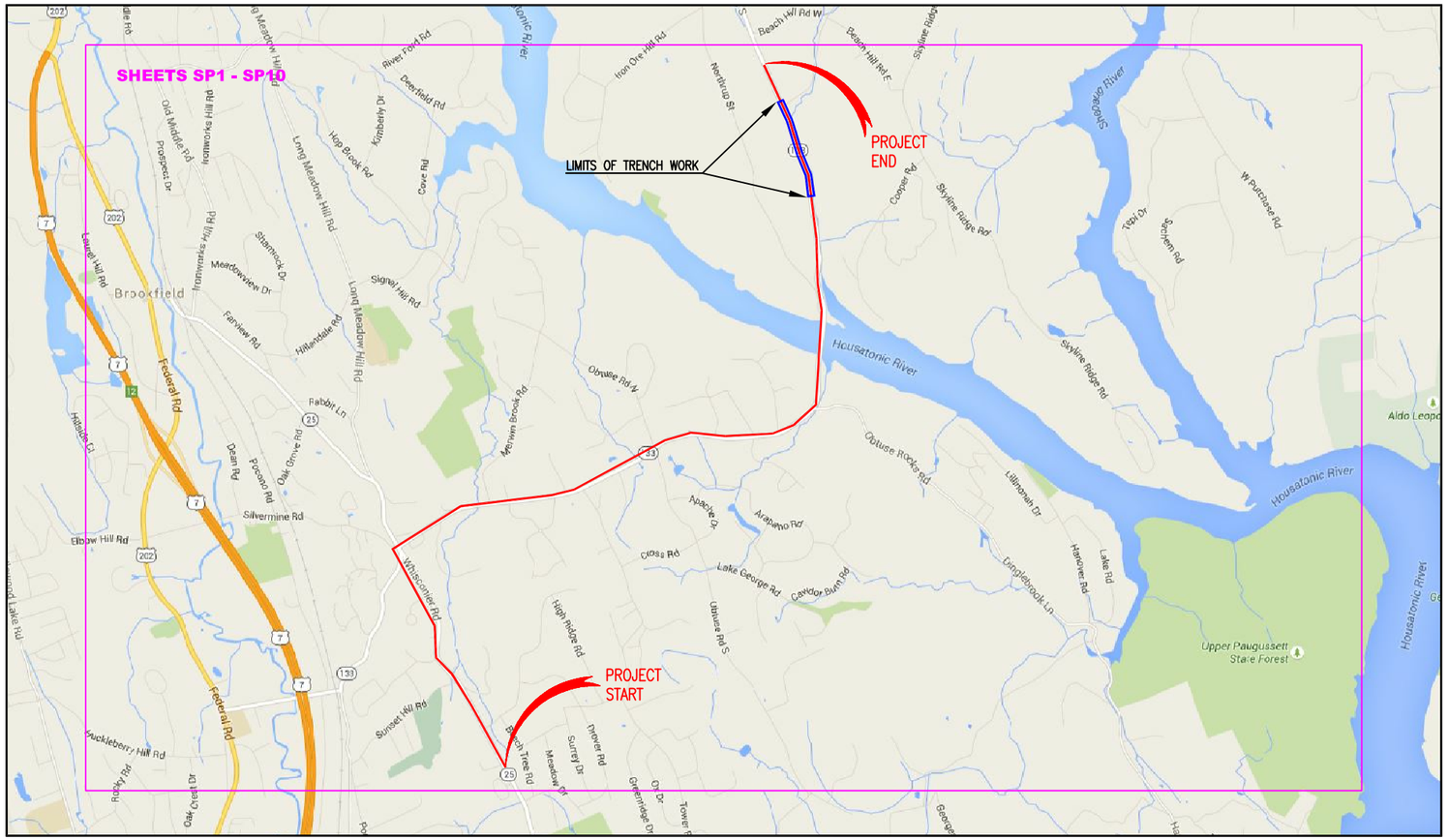
TOWN: **BRIDGEWATER**

DRAWING TITLE:
OVERHEAD UTILITY PLAN SHEET STA. 145+00 TO STA. 154+00

PROJECT NO. **016-0098**
DRAWING NO. **UTL-A2**
SHEET NO. **03.263**

FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT

PA# TBD



SITE LOCATION

CONTACTS

COMPANY: LEVEL 3 COMMUNICATIONS
CONTACT: STEPHEN BECKER
PHONE #: 203-241-5830

ENGINEERING: 2COM GROUP, LLC.
CONTACT: ROBERT BREMBS
PHONE #: 973-668-9787

CT DOT PROJECT ENGINEER
CONTACT: JORDAN PIKE
PHONE #: 860-594-2762

CT DOT UTILITY COORDINATOR
CONTACT: DOROTA RABIEJ
PHONE #: 203-591-3552

CT DOT DISTRICT SURVEYS
CONTACT: DOUGLAS WIEGERT
PHONE #: 203-591-3700

SITE INDEX

1 - COVER SHEET/SITE LOCATION
2 - LEGEND
3 - GENERAL NOTES
4 - OSP TYPICALS
5 -10 - SURVEY INFORMATION
11 - 20 - SITE PLAN 1 - SITE PLAN 10
21 - DRAINAGE CROSSING DETAIL
22 - 24 - CROSS SECTION DETAIL 1 - 3
25 - RAKE OFF TABLES
26 - DETOUR PLAN - SUBSET TRAFFIC
27 - DETOUR PLAN - SIGN LEGEND
28 - DETOUR PLAN - SPEED CUSHION SIGNING
29 - DETOUR PLAN - SPEED CUSHION PLAN 1
30 - DETOUR PLAN - SPEED CUSHION PLAN 2
31 - DETOUR PLAN - SPEED CUSHION INSTALL
32 - 38 - DETOUR PLAN - SIGNING / DETAILS
39 - 41 - CT DOT BORING LOGS
42 - 49 - LANGAN BORING PLAN AND PROFILE
50 - 52 - LANGAN BORING LOGS

SCOPE OF WORK:

New 180ct ARMORED LEAF FOC Placement/relocation design from Splice #2313 on Whisconier Road to Splice #2323 on Main St South - Rt. 133. New conduit relocation design on Main St South Road from STA. 124+00 to STA. 154+00.

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

811 Know what's below. Call before you dig.

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 1 OF 52

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

LEGEND

LINETYPES

- UG FIBER – EXISTING
- UG FIBER – PROPOSED
- AERIAL FIBER – EXISTING
- AERIAL FIBER – PROPOSED
- STRAND – EXISTING
- STRAND – PROPOSED
- CONDUIT – EXISTING
- CONDUIT – PROPOSED
- INNERDUCT – EXISTING
- INNERDUCT – PROPOSED
- G — GAS
- W — WATER
- T — TELEPHONE
- E — ELECTRIC
- SEW — SANITARY SEWER (SEW)
- SD — STORM DRAIN
- X — FENCE
- TV — CABLE TV
- STM — STEAM
- OIL — OIL
- UNK — UNKNOWN UTILITY
- R/W — RIGHT OF WAY
- EOP — EDGE OF PAVEMENT

SYMBOL / DESCRIPTION

SYMBOL	DESCRIPTION
ASW	ASPHALT SIDEWALK
BIP	BLACK IRON PIPE
BSP	BLACK STEEL PIPE
CSW	CONCRETE SIDEWALK
EOP	EDGE OF PAVEMENT
EOTW	EDGE OF TRAVEL WAY
FOC	FACE OF CURB
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
JB	JUNCTION BOX
MH	MANHOLE
MP	MILE POST
O/S	OFFSET
PVC	POLY VINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
STA.	STATION

- R — RISER
- T — TELEPHONE
- P — POWER VAULT
- CATCH BASIN/INLET
- FIRE HYDRANT
- GROUND/BOND
- STREET LIGHT
- TREE
- CULVERT
- WING WALL
- BRIDGE
- U — MISC. UTILITY
- OWNER ID — UTILITY POLE – EXISTING
- LEVEL3 ID — POLE – PROPOSED
- HH– HH HANDHOLE OWNER — HANDHOLE – EXISTING
- HH- HH HANDHOLE LEVEL3 — HANDHOLE – PROPOSED
- MH– MH MANHOLE OWNER — MANHOLE – EXISTING
- MH- MH MANHOLE LEVEL3 — MANHOLE – PROPOSED
- PB– PB PULLBOX OWNER — PULLBOX – EXISTING
- PB- PB PULLBOX LEVEL3 — PULLBOX – PROPOSED

- VAULT– V VAULT OWNER — VAULT – EXISTING
- VAULT- V VAULT LEVEL 3 — VAULT – PROPOSED
- 0' — AERIAL STORAGE – EXISTING
- 0' — AERIAL STORAGE – PROPOSED
- 0' — VAULT/BUILDING STORAGE – EXISTING
- 0' — VAULT/BUILDING STORAGE – PROPOSED
- POLE ANCHOR/DOWN GUY – EXISTING
- POLE ANCHOR/DOWN GUY – PROPOSED
- PROPOSED DOWN GUY ON EXISTING ANCHOR
- FDP NAME SIZE LOCATION — TERMINATION – EXISTING
- FDP NAME SIZE LOCATION — TERMINATION – PROPOSED
- BUILDING NAME STREET — BUILDING CALLOUT – PROPOSED
- MANUFACTURER NAME — SPLICE POINT – EXISTING
- MANUFACTURER NAME — SPLICE POINT – PROPOSED
- #F IN: 0 OUT: 0 — SEQUENTIAL CALLOUT
- #F IN: 0 TAIL: 0 — SEQUENTIAL IN TAIL CALLOUT
- #F TAIL: 0 OUT: 0 — SEQUENTIAL TAIL OUT CALLOUT

- POLE NO N/A; UTILITY1 0'–0" — POLE ATTACHMENT CALLOUT – EXISTING USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS
- POLE NO N/A; UTILITY1 0'–0" — POLE ATTACHMENT CALLOUT – PROPOSED USE DYNAMIC PULL DOWN TO SELECT FROM 1 TO 6 ATTACHMENTS
- (1) CABLE FIBERS: FIBERS; CABLE OWNER: LEVEL3; CABLE LENGTH: LENGTH; NOTES: — CABLE SPAN CALLOUT – EXISTING FOR USE ON PAPER SPACE (SHOWN AT 50X)
- (1) CABLE FIBERS: FIBERS; CABLE OWNER: LEVEL3; CABLE LENGTH: LENGTH; NOTES: — CABLE SPAN CALLOUT – PROPOSED FOR USE ON PAPER SPACE (SHOWN AT 50X)
- (1) CONDUIT OWNER: LEVEL3; CONDUIT LENGTH: LENGTH; CONDUIT QTY: CONDUITS; CONDUIT SIZE: SIZE; CONDUIT TYPE: TYPE; INNER DUCT QTY: INNERDUCTS; INNER DUCT SIZE: SIZE; INNER DUCT TYPE: TYPE; NOTES: — CONDUIT CALLOUT – EXISTING FOR USE ON PAPER SPACE (SHOWN AT 50X) WITH OR WITHOUT INNER DUCT INFO
- (1) CONDUIT OWNER: LEVEL3; CONDUIT LENGTH: LENGTH; CONDUIT QTY: CONDUITS; CONDUIT SIZE: SIZE; CONDUIT TYPE: TYPE; INNER DUCT QTY: INNERDUCTS; INNER DUCT SIZE: SIZE; INNER DUCT TYPE: TYPE; NOTES: — CONDUIT CALLOUT – PROPOSED FOR USE ON PAPER SPACE (SHOWN AT 50X) WITH OR WITHOUT INNER DUCT INFO
- (1) STRAND TYPE: TYPE; STRAND LENGTH: LENGTH; NOTES: — STRAND CALLOUT – EXISTING FOR USE ON PAPER SPACE (SHOWN AT 50X)
- (1) STRAND TYPE: TYPE; STRAND LENGTH: LENGTH; NOTES: — STRAND CALLOUT – PROPOSED FOR USE ON PAPER SPACE (SHOWN AT 50X)

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2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

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Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

GENERAL NOTES

1. Contractor must obtain locates prior to disturbing the ground.
2. Contractor must have a copy of the approved permit from the appropriate agency on the jobsite at all times.
3. All cable will be placed at standard minimum depth. (Level 3 standard is 36" deep unless otherwise directed by a Level 3 representative.)
4. Any landscaping will be replaced to equal or better than that which existed prior to work.
5. Project site will be properly secured prior to the end of each day.
6. All work is to be in accordance with all authorities having jurisdiction in the work zone.
7. Contractors are advised to contact Level 3 for any additional information or clarification concerning scope of work or the requirements necessary for project completion.
8. Contractor is responsible to field verify all dimensions, quantities and existing conditions prior to construction. If a significant change to the running line is needed, please contact your Level 3 representative before proceeding.
9. Before construction begins, contractor shall take appropriate precautions to avoid any potential obstructions prior to proceeding with work.
10. No construction on private property will commence until approval is given by the appropriate Level 3 employee.
11. Contractor shall not proceed with work until they have received a Purchase Order and have been directed to do so by an authorized Level 3 representative.
12. Contractor shall not exceed the Purchase Order value without authorization in writing from the appropriate Level 3 representative.
13. As-Builts will be required for each project including cable footage sequentials at every access point, slack loop, splice location, pole and termination point. Contractor should also provide notes of all changes in depths, running lines, mh/hh locations, and any other applicable notes to depict the work that took place. NOTE: All major changes need to be pre-approved by an authorized Level 3 employee and CTDOT employee prior to starting the work.
14. Contractor shall coordinate with CTDOT survey department to utilize the same datum as the new roadway reconstruction project. (The proposed conduit layout should be based on the CT coordinate grid with North American Datum 1983 (NAD 83), vertical location based on National Geodetic Vertical Datum 1988 (NGVD 88). Level 3 contractor is responsible to stake out proposed conduit system based on the CTDOT proposed baseline of the new road.
15. CTDOT will permit a maximum of a fourteen (14) day detour to facilitate trench work. At the end of the fourteen (14) day detour, Route 133 must be reopened for traffic. Any remaining work may be completed utilizing alternating one-way traffic. Contractor will be assessed Liquidated Damages in the amount of $10,000 per each full or partial twenty-four (24) hour period Route 133 is closed to traffic beyond fourteen (14) days.
16. CTDOT Survey Contacts:

    Douglas Wiegert - Douglas.Wiegert@ct.gov - (203) 591-3700

    Patrick Smedick - Patrick.Smedick@ct.gov - (203) 591-3709
17. The Contractor is hereby notified that this is an Advanced Utility Project designed specifically to accommodate the future State roadway and drainage system in a future project by others. The stations and elevations associated with installing this utility are critical in avoiding damages to the utility in the future State project. The Contractor must hire a CT licensed surveyor to verify and document that the utility is located in accordance with these plans.
18. The Contractor is hereby notified that this is not a to be considered an ordinary project by any means and that due to the inconvenience to the traveling public that the road closure causes, extra manpower, equipment and workshifts will be required to complete the trench work within fourteen (14) days.
19. Jordan Pike (The Engineer) shall be notified 30 days prior to closing Route 133 for trench work.

    Phone: (860) 594-2762

    Email: Jordan.Pike@ct.gov
20. Awarded contractor must notify David Neelands (CDOT) 1 month prior to Construction for public announcement of Route 133 closure.

    Phone: (860) 201-7430

    Email: David.Neelands@ct.gov
21. An alternating one-way traffic operation will be permitted on all roadways (excluding holidays) at the following times: Monday through Friday between 6AM and 9AM and between 3PM and 6PM. Saturday and Sunday between 10AM and 6PM.
22. Contractor will furnish and install all material other then Fiber Optic cable and Splice closures.
23. All conduits to be Proofed with rope and tagged/numbered for each span.
24. CDOT will be responsible for the removal of the abandoned Level 3 structure once the new Path is in place.
25. Con40 forms to be filled out daily and signed by all parties on site for Level 3 reimbursement.
26. All Spoils excavated from Level 3 trench must be disposed of properly.
27. CDOT Surveyors will be responsible for marking out the proposed Baseline and stations of New road location.
28. Level 3 contractor shall be responsible for coordinating the location of the Proposed trench based on CDOT baseline & offsets.
29. No work shall be performed on or between August 17th, 2016 and August 23rd, 2016 inclusive due to the scheduled Bridgewater County Fair.

FOC TESTING/SPLICING REQUIREMENTS

1. End to end testing locations:
   170 New Milford Rd East Bridgewater CT to 21 Harborview Ave Stamford CT.
2. Required testing of the open fibers (all working fibers will be hot cut).
3. Testing requires long and short traces with no launch reel bidirectional with power meters.
4. FQA package will be send out with loss budgets before maintenances.
5. All splicing in a GCR window 12am-6am.

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2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level (3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

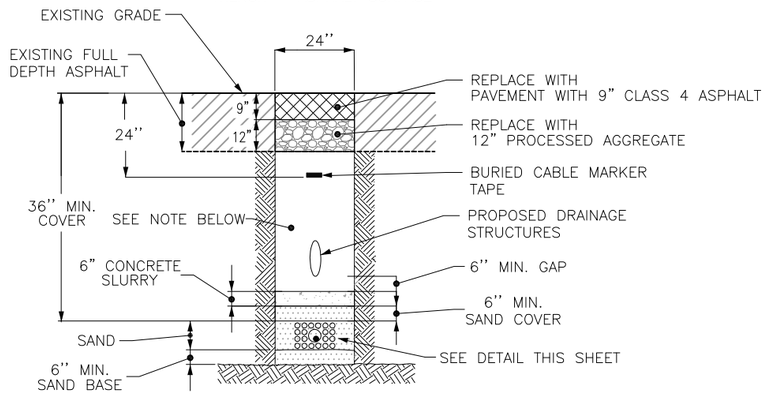
WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

OSP TYPICALS

MANHOLE / TRENCH DETAIL

TYPICAL DETAIL "A"

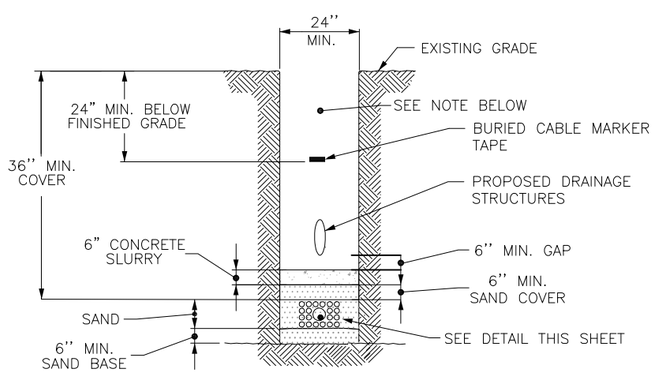
TRENCH – ASPHALT SURFACE



NOTES:
1. BACKFILL MUST BE MADE WITH ROCK FREE MATERIAL.
2. ALL OTHER SPOILS TO BE EXPOSED OF BY CONTRACTOR.

TYPICAL DETAIL "B"

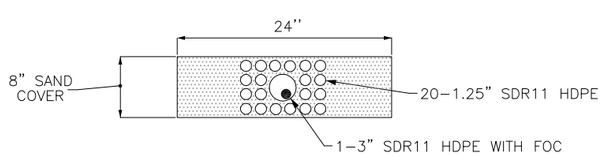
TRENCH – GRASS SURFACE

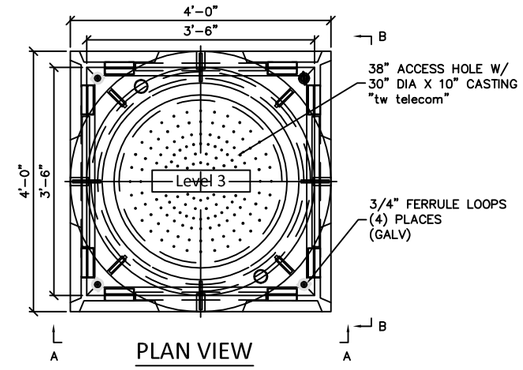


NOTE:
1. BACKFILL MUST BE MADE WITH ROCK FREE MATERIAL.
2. ALL OTHER SPOILS TO BE EXPOSED OF BY CONTRACTOR.

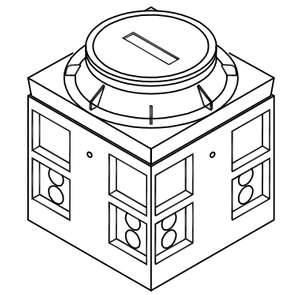
CONDUIT DETAIL

IN TRENCH





PLAN VIEW



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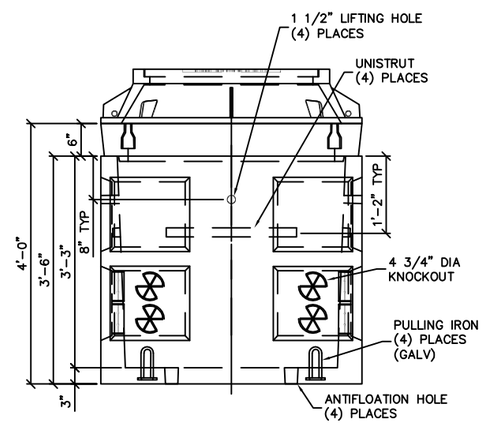
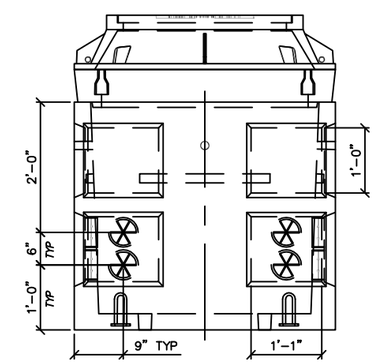


VIEW A-A



VIEW B-B

STRUCTURAL NOTES:

1.) CONCRETE: 28 DAY COMPRESSIVE STRENGTH = 6000 PSI (MIN)
2.) STEEL REINFORCEMENT:
  A. WIRE – ASTM A185
  B. REBAR – ASTM A615 OR A706, GR 60
3.) CEMENT: ASTM C150
  4.) DESIGN LOAD:
  A. ACI 318, ASTM C–857, ASTM C–858
  B. HS–20 LOADING WITH IMPACT
  C. FILL HEIGHT = 0 FT – 5 FT
  D. WATER TABLE = 5' BELOW GRADE
  E. VERTICAL SOIL WEIGHT – 120 PCF
  F. DRY LATERAL EARTH PRESSURE (EFP) = 40 PCF
  G. WET LATERAL EARTH PRESSURE (EFP) = 80 PCF
  I. LATERAL LIVE LOAD SURCHARGE = 80 PSF (TO 8' DEPTH)
5.) ALL HORIZONTAL JOINTS SHALL HAVE BUTYL ROPE BETWEEN PRECAST PIECES (CS–102 CONSEAL OR EQUIVALENT)
6.) DESIGNATED EMBEDDED LIFTERS MUST BE USED, USE PROPER RIGGING TO ASSURE ALL LIFTERS ARE EQUALLY ENGAGED WITH A MINIMUM OF 60 DEGREE ANGLE ON SLING.
7.) MINIMUM REQUIRED STRIPPING STRENGTH FOR ALL SECTIONS = 2000 PSI

SHOP NOTES

BROOM FINISH W/ CHAMFERED EDGES

TYPICAL DETAIL – #'C'

UTILITY VAULT PRE–CAST 444 OLDCASTLE – 25495141

Know what's below. Call before you dig.

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5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level (3) COMMUNICATIONS

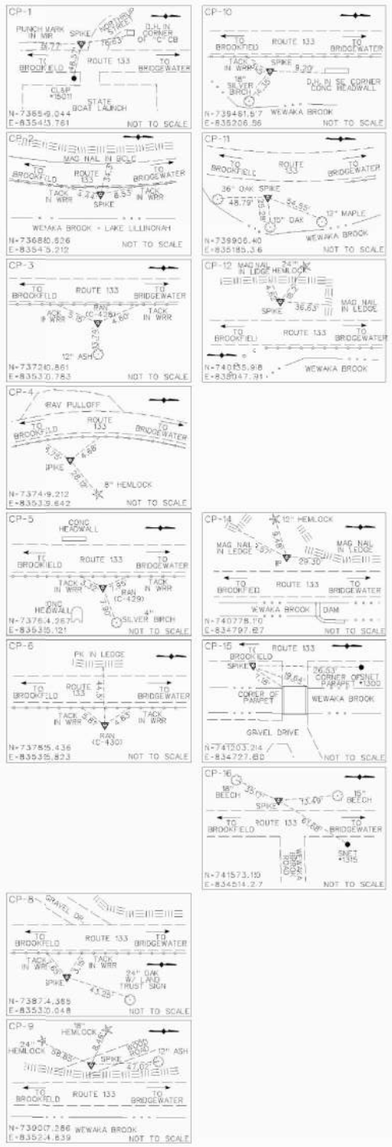
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

DRAWING NO. UTL-B4 SHEET NO. 03.267

CONFIDENTIAL AND PROPRIETARY

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

SURVEY INFORMATION

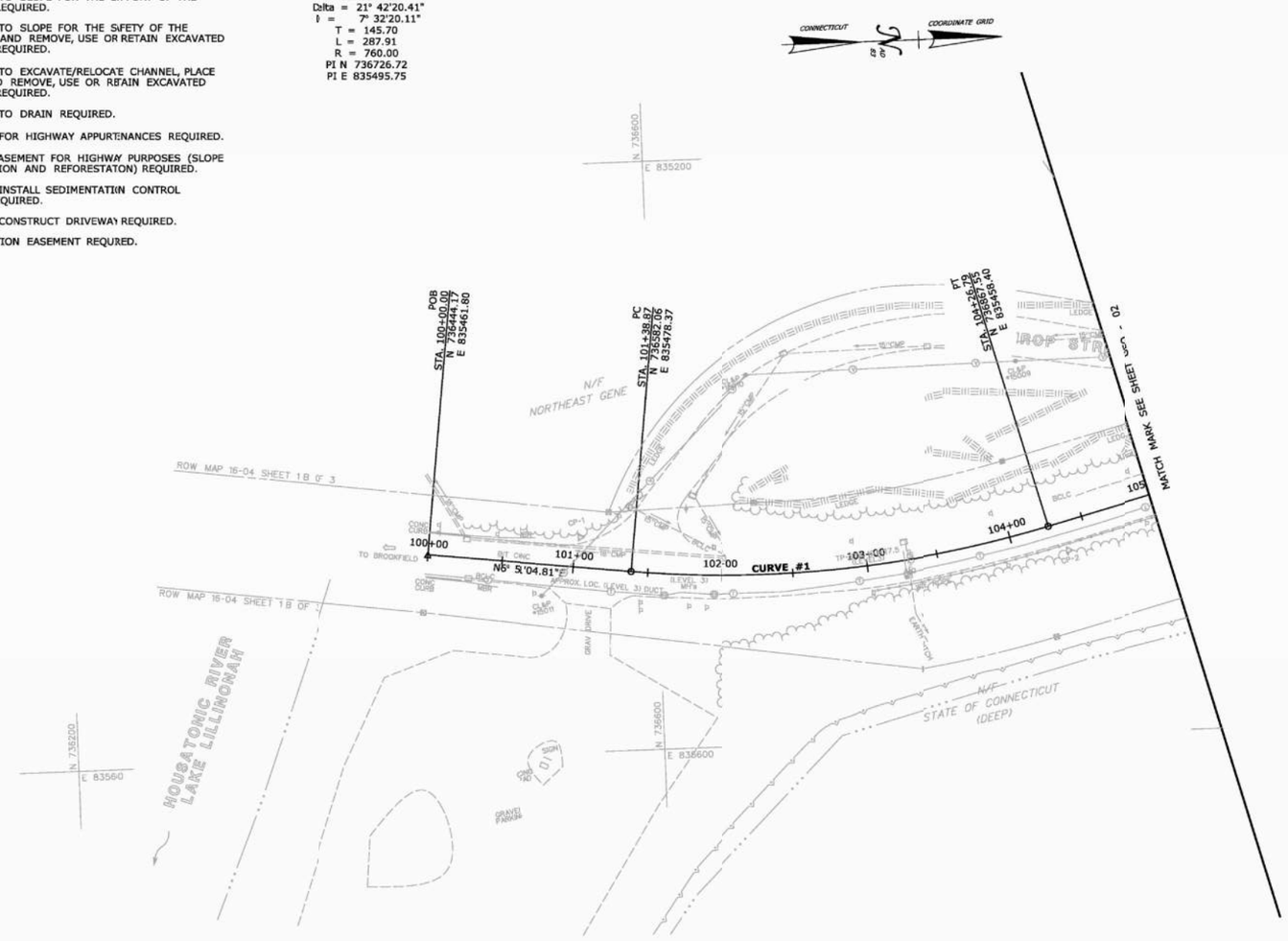


ROW LEGEND

- (A) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (B) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED.
- (C) EASEMENT TO EXCAVATE/RELOCATE CHANNEL, PLACE RIPRAP AND REMOVE, USE OR RETAIN EXCAVATED MATERIAL REQUIRED.
- (D) EASEMENT TO DRAIN REQUIRED.
- (E) EASEMENT FOR HIGHWAY APPURTENANCES REQUIRED.
- (F) DEFINED EASEMENT FOR HIGHWAY PURPOSES (SLOPE STABILIZATION AND REFORESTATON) REQUIRED.
- (G) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (H) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (I) CONSTRUCTION EASEMENT REQUIRED.

CURVE DATA

CURVE #1
Delta = 21° 42'20.41"
D = 7° 32'20.11"
T = 145.70
L = 287.91
R = 760.00
PI N 736726.72
PI E 835495.75



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/30/2015

DESIGNED/DRAWN: EBS
CHECKED BY: JDP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_ALN-01.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: ALIGNMENT AND ROW STA. 100+00 TO STA. 105+00

PROJECT NO. 16-98
DRAWING NO. ALN-01
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

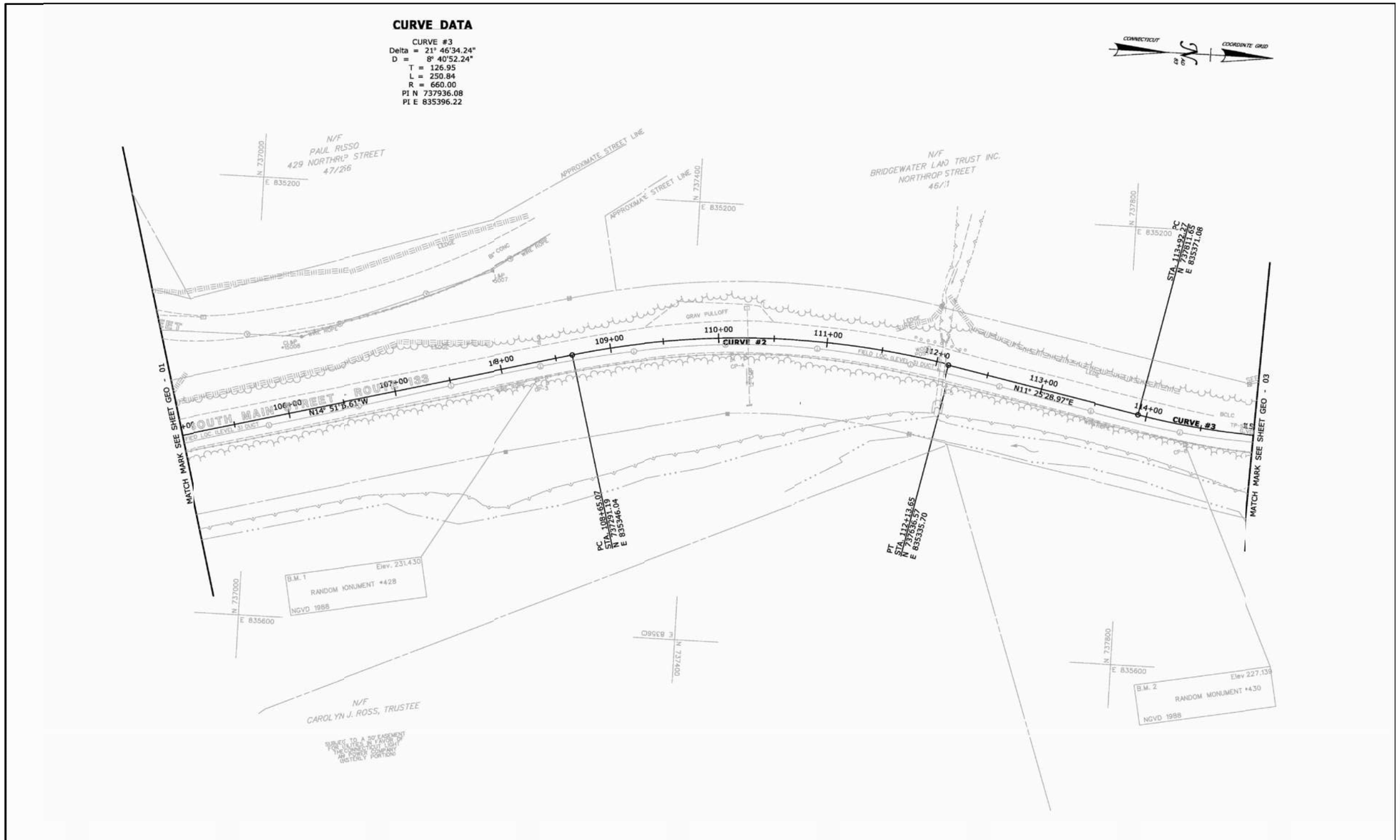
Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

SURVEY INFORMATION



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/30/2015

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...VHW.MSH.0016.0098.ALN-02.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER
DRAWING TITLE: ALIGNMENT & ROW STA. 105+00 TO STA. 115+00

PROJECT NO. 16-98
DRAWING NO. ALN-02
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 6 OF 52

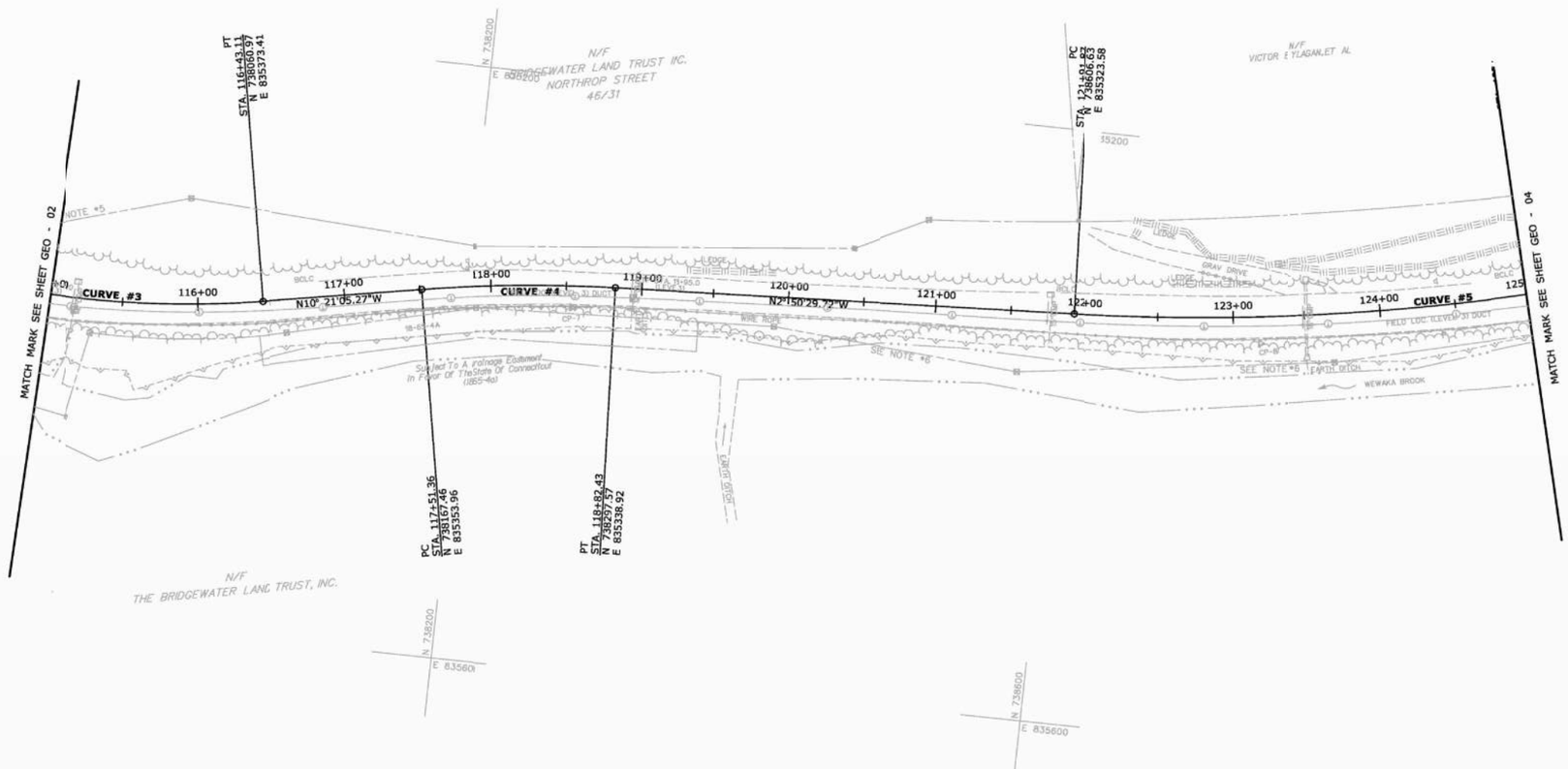
DRAWING NO. UTL-B6 SHEET NO. 03.269

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

SURVEY INFORMATION

CURVE DATA

CURVE #3	CURVE #4	CURVE #5
Delta = 21°16'34.24"	Delta = 7° 30'35.55"	Delta = 11° 34'52.36"
D = 8° 0'52.24"	D = 5° 43'46.48"	D = 3° 41'47.41"
T = 125.95	T = 65.63	T = 157.19
L = 259.84	L = 131.07	L = 313.30
R = 660.00	R = 1000.00	R = 1550.00
PI N 737736.08	PI N 738232.02	PI N 738763.62
PI E 835596.22	PI E 835342.17	PI E 835315.78



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/30/2015

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016.0098_ALN-03.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: ALIGNMENT & ROW STA. 115+00 TO STA. 125+00

PROJECT NO. 16-98
DRAWING NO. ALN-03
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

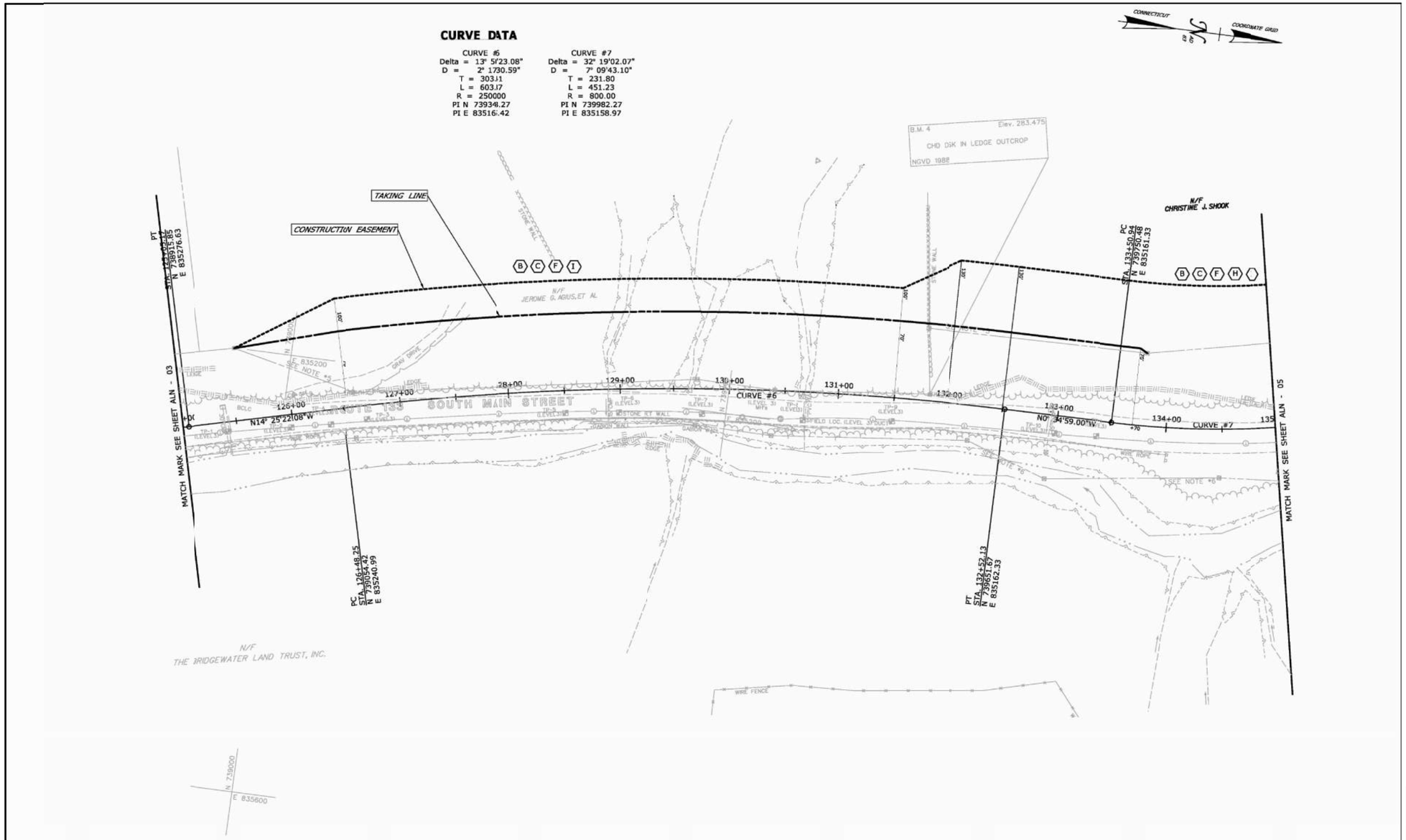
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

DRAWING NO. UTL-B7 SHEET NO. 03.270

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

SURVEY INFORMATION



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/30/2015

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_ALN-04.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: ALIGNMENT & ROW STA. 125+00 TO STA. 135+00

PROJECT NO. 16-98
DRAWING NO. ALN-04
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

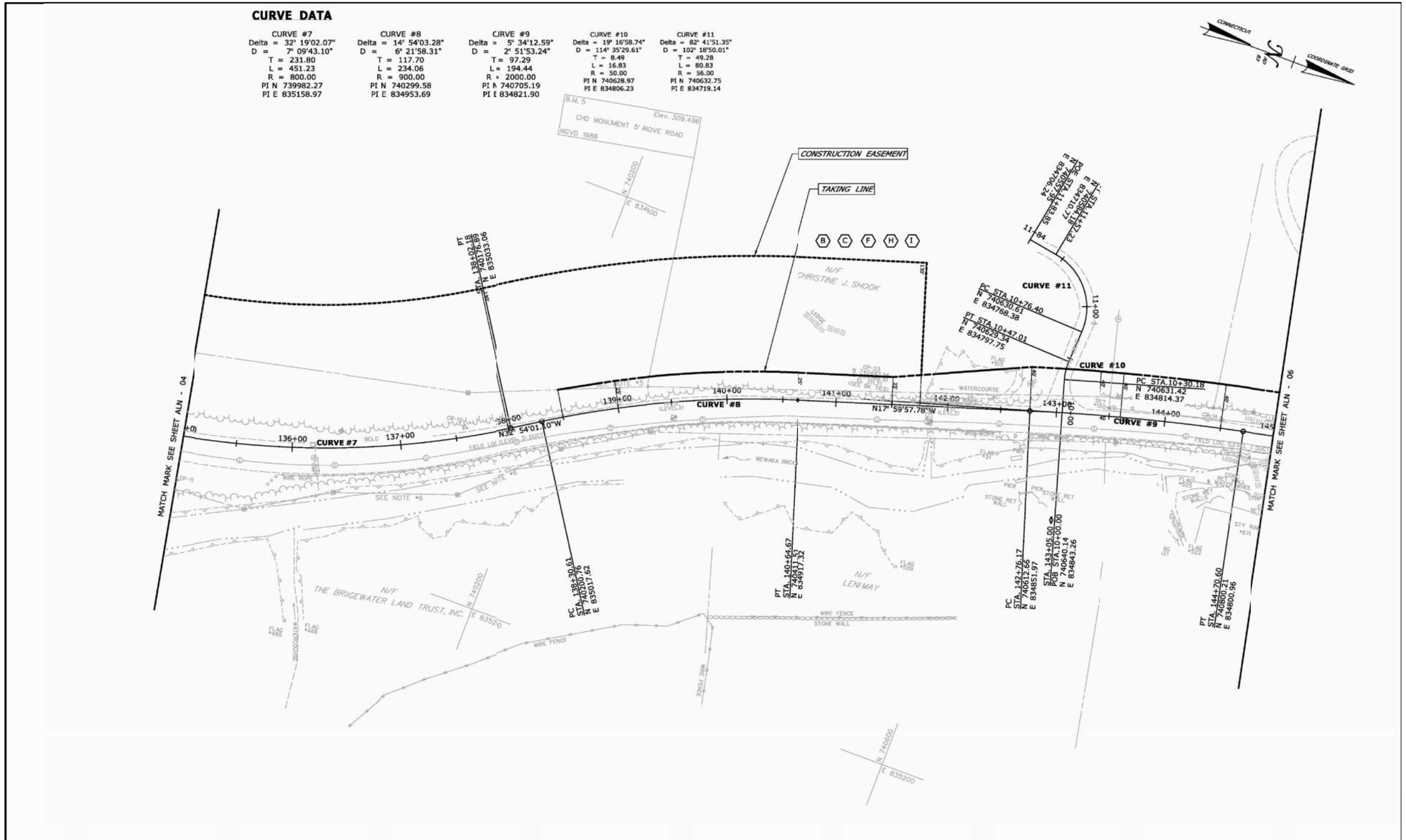
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 8 OF 52

DRAWING NO. UTL-B8 SHEET NO. 03.271

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

SURVEY INFORMATION



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/30/2015

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_ALN-05.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: ALIGNMENT & ROW STA. 135+00 TO STA. 145+00

PROJECT NO. 16-98
DRAWING NO. ALN-05
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

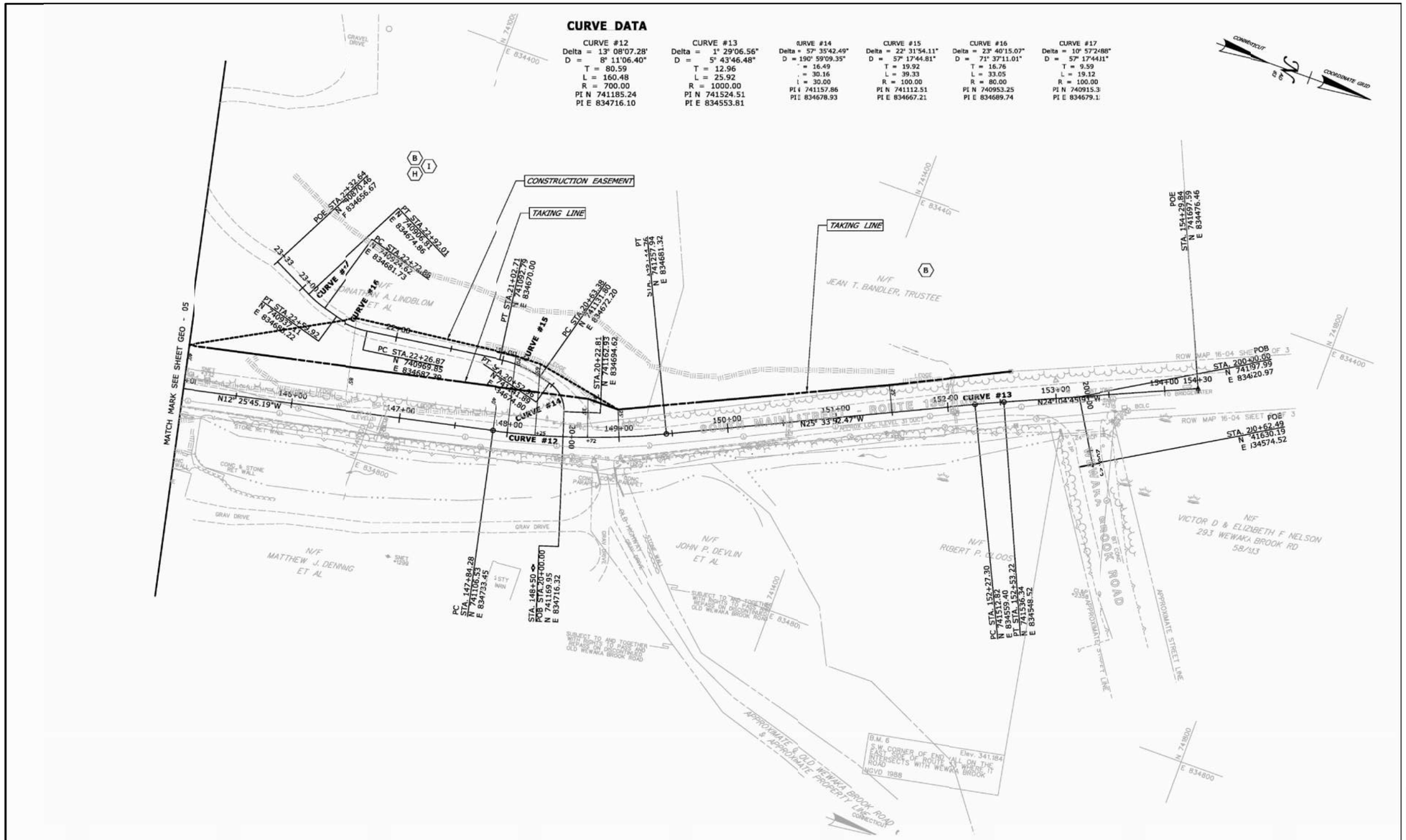
Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

SURVEY INFORMATION



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/30/2015

DESIGNER/DRAFTER: EBS
CHECKED BY: JDP
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...HW_MSH_0016_0098_ALN-06.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE:
ALIGNMENT & ROW
STA. 145+00 TO STA 154+30

PROJECT NO. 16-98
DRAWING NO. ALN-06
SHIFT NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

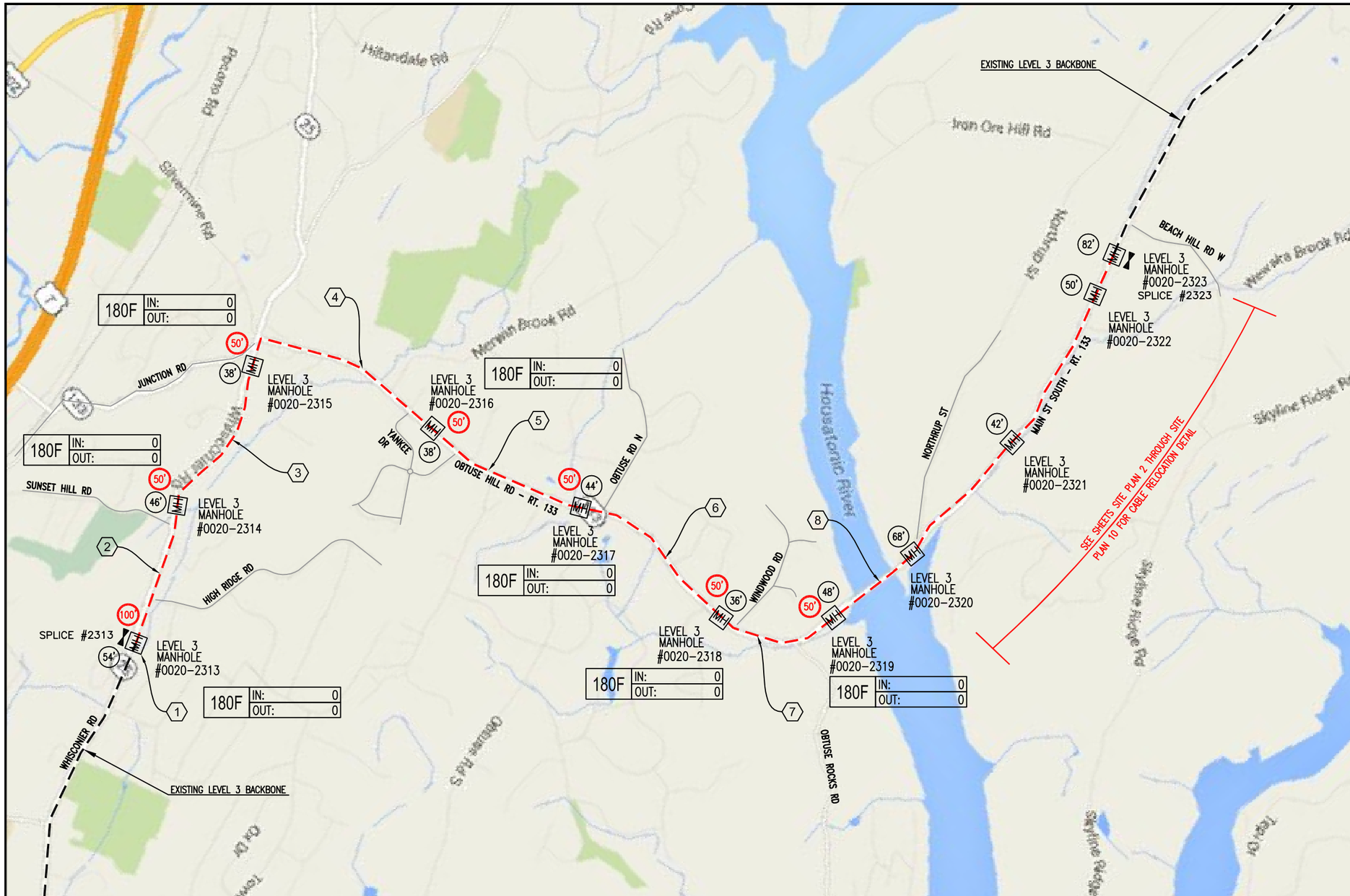
Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 10 OF 52

DRAWING NO. UTL-B10 SHEET NO. 03.273

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



CONSTRUCTION NOTES

1. EXISTING LEVEL 3 MANHOLE #0020-2313.
LEAVE 100' SLACK COIL FOR SPLICE INTO EXISTING LEVEL 3 SPLICE ENCLOSURE #2313.
(SEE GENERAL NOTES FOR SPLICE DETAILS)

2. CONDUIT OWNER: LEVEL 3
CONDUIT LENGTH: 2,482'
CONDUIT QTY: 1
CONDUIT SIZE: 1.25"
CONDUIT TYPE: SDR11 HDPE
NOTES:

2. CABLE FIBERS: 180ct ARMORED LEAF
CABLE OWNER: LEVEL 3
CABLE LENGTH: 2,482'
NOTES: INSTALL FOC WITHIN EXISTING LEVEL 3 CONDUIT.

3. CONDUIT OWNER: LEVEL 3
CONDUIT LENGTH: 3,022'
CONDUIT QTY: 1
CONDUIT SIZE: 1.25"
CONDUIT TYPE: SDR11 HDPE
NOTES:

3. CABLE FIBERS: 180ct ARMORED LEAF
CABLE OWNER: LEVEL 3
CABLE LENGTH: 3,022'
NOTES: INSTALL FOC WITHIN EXISTING LEVEL 3 CONDUIT.

4. CONDUIT OWNER: LEVEL 3
CONDUIT LENGTH: 3,758'
CONDUIT QTY: 1
CONDUIT SIZE: 1.25"
CONDUIT TYPE: SDR11 HDPE
NOTES:

4. CABLE FIBERS: 180ct ARMORED LEAF
CABLE OWNER: LEVEL 3
CABLE LENGTH: 3,758'
NOTES: INSTALL FOC WITHIN EXISTING LEVEL 3 CONDUIT.

5. CONDUIT OWNER: LEVEL 3
CONDUIT LENGTH: 2,960'
CONDUIT QTY: 1
CONDUIT SIZE: 1.25"
CONDUIT TYPE: SDR11 HDPE
NOTES:

5. CABLE FIBERS: 180ct ARMORED LEAF
CABLE OWNER: LEVEL 3
CABLE LENGTH: 2,960'
NOTES: INSTALL FOC WITHIN EXISTING LEVEL 3 CONDUIT.

6. CONDUIT OWNER: LEVEL 3
CONDUIT LENGTH: 3,196'
CONDUIT QTY: 1
CONDUIT SIZE: 1.25"
CONDUIT TYPE: SDR11 HDPE
NOTES:

6. CABLE FIBERS: 180ct ARMORED LEAF
CABLE OWNER: LEVEL 3
CABLE LENGTH: 3,196'
NOTES: INSTALL FOC WITHIN EXISTING LEVEL 3 CONDUIT.

7. CONDUIT OWNER: LEVEL 3
CONDUIT LENGTH: 2,336'
CONDUIT QTY: 1
CONDUIT SIZE: 1.25"
CONDUIT TYPE: SDR11 HDPE
NOTES:

7. CABLE FIBERS: 180ct ARMORED LEAF
CABLE OWNER: LEVEL 3
CABLE LENGTH: 2,336'
NOTES: INSTALL FOC WITHIN EXISTING LEVEL 3 CONDUIT.

8. CONDUIT OWNER: LEVEL 3
CONDUIT LENGTH: 1,284'
CONDUIT QTY: 1
CONDUIT SIZE: 1.25"
CONDUIT TYPE: SDR11 HDPE
NOTES:

8. CABLE FIBERS: 180ct ARMORED LEAF
CABLE OWNER: LEVEL 3
CABLE LENGTH: 1,284'
NOTES: INSTALL FOC WITHIN EXISTING LEVEL 3 CONDUIT.

As-Built Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
ENG-10110 - Rod & Proof Existing Conduit (including install pull rope)	FOOT	19,028	
UGB-30980 - Place up to 288 count FOC in conduit, greater than 1500'	FOOT	19,438	
SPL-50080 - Enter existing Splice Enclosure	EA	1	
SPL-50110 - OSP Setup/Teardown per location	EA	1	
SPL-50140 - Splice OSP loose tube 97 to 288 per location	EA	180	
SPL-50360 - Fiber Test per Fiber, greater than 72 Unidirectional OTDR with Trace	EA	180	

SITE PLAN 1

Know what's below. Call before you dig.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

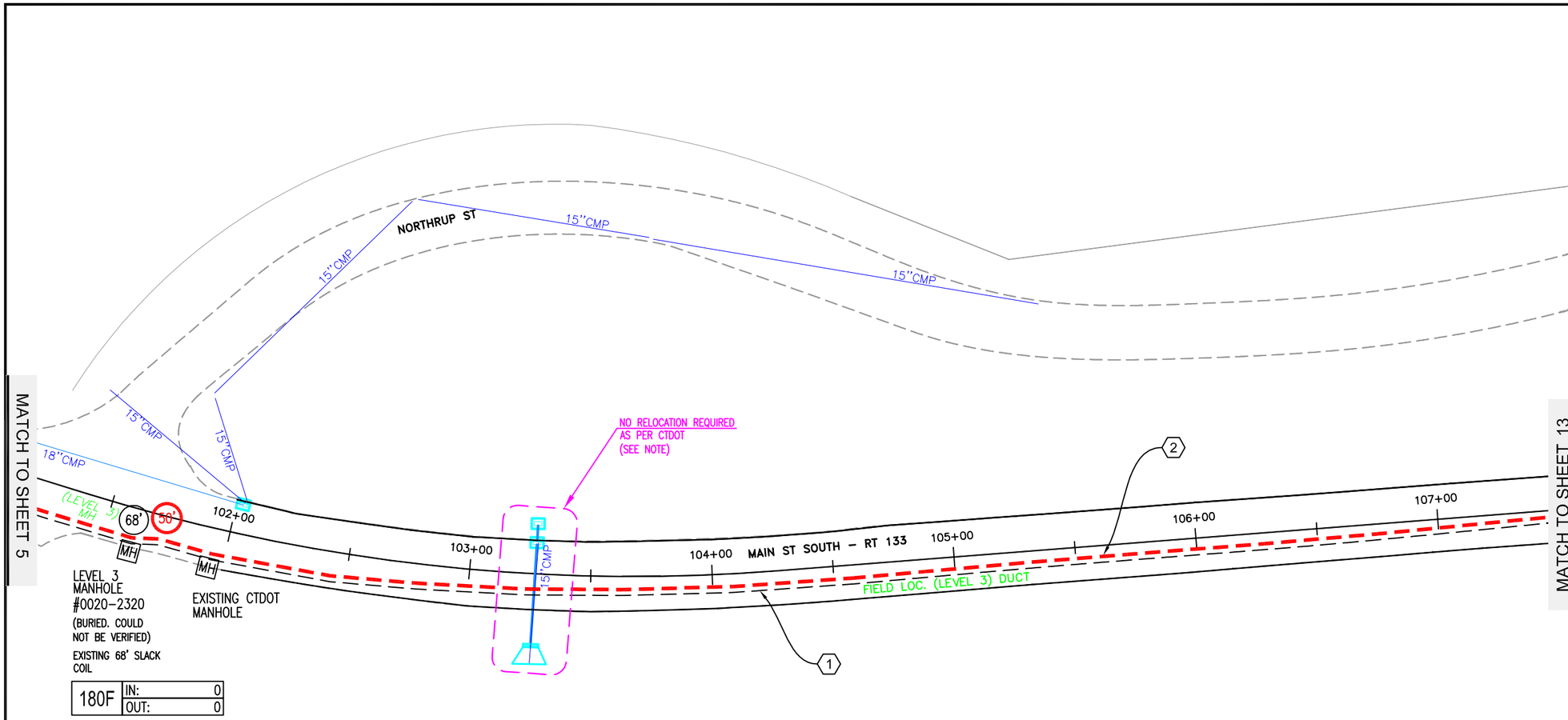
Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 11 OF 52

DRAWING NO. UTL-B11 SHEET NO. 03.274

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



NOTE:
ALL PROPOSED DRAINAGE AND ROADWAY ELEVATIONS WILL BE VERIFIED BY CT DOT AT THE PRE-CONSTRUCTION MEETING.

As-Built Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
ENG-10110 – Rod & Proof Existing Conduit (including install pull rope)	FOOT	2,250	
UGB-30980 – Place up to 288 count FOC in conduit, greater than 1500'	FOOT	2,300	

CONSTRUCTION NOTES

(1) EXISTING LEVEL 3 BACKBONE CABLE AND CONDUIT.

(2) CONDUIT OWNER: LEVEL 3
CONDUIT LENGTH: 2,250'
CONDUIT QTY: 1
CONDUIT SIZE: 1.25"
CONDUIT TYPE: SDR11 HDPE
NOTES:

(2) CABLE FIBERS: 180ct ARMORED LEAF
CABLE OWNER: LEVEL 3
CABLE LENGTH: 2,250'
NOTES: INSTALL FOC WITHIN EXISTING LEVEL 3 CONDUIT FROM MH #0020-2320 TO TO NEW LEVEL 3 MANHOLE (STA. 124+00).

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

811 Know what's below. Call before you dig.

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 12 OF 52

SITE PLAN 2

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

DRAWING NO. UTL-B12 SHEET NO. 03.275

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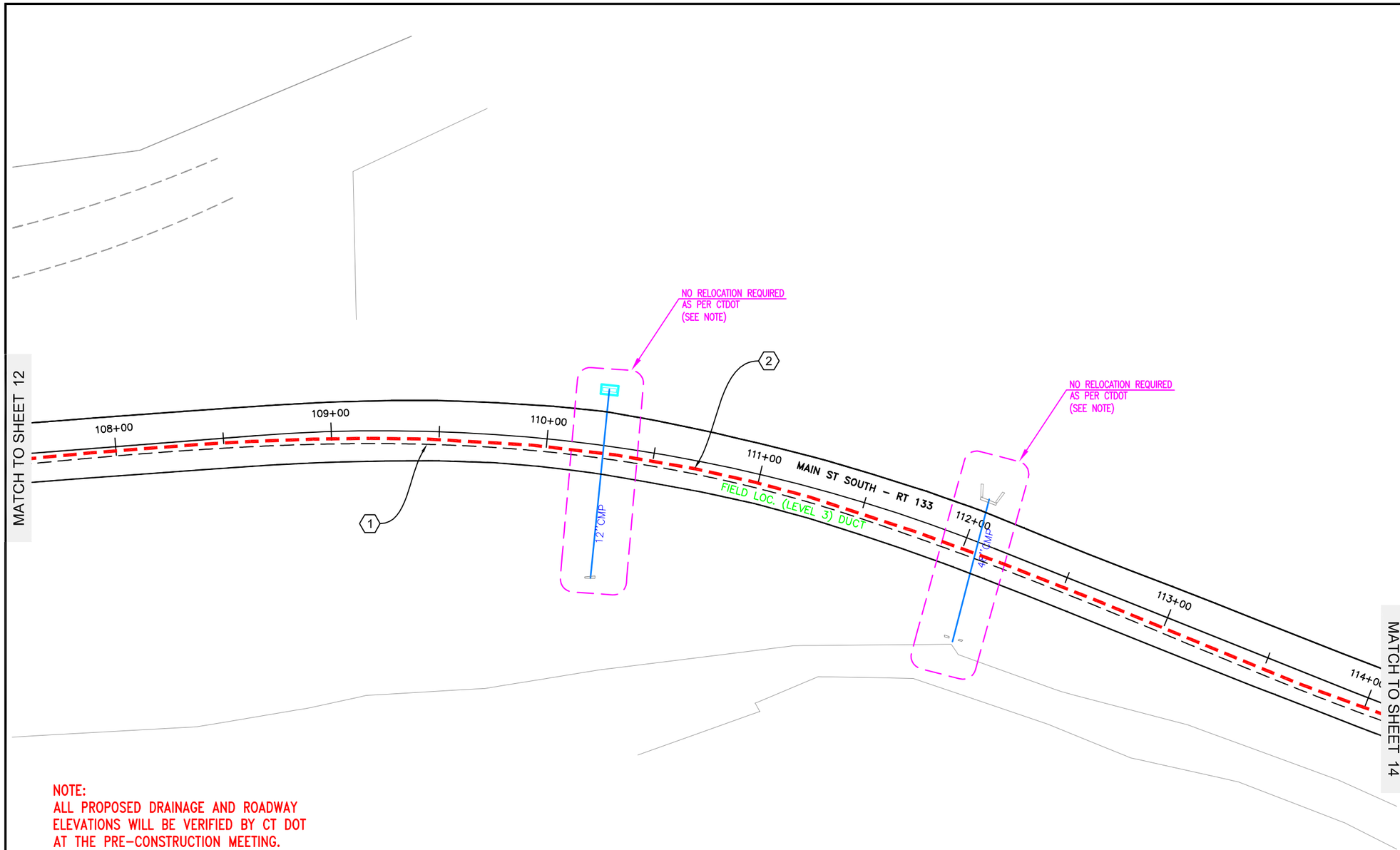

NOTE:
ALL PROPOSED DRAINAGE AND ROADWAY ELEVATIONS WILL BE VERIFIED BY CT DOT AT THE PRE-CONSTRUCTION MEETING.

As-Built Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity

SITE PLAN 3

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

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CONSTRUCTION NOTES

1. EXISTING LEVEL 3 BACKBONE CABLE AND CONDUIT.
2. NEW LEVEL 3 FOC (180ct ARMORED LEAF) WITHIN EXISTING CONDUIT FROM MANHOLE #0020-2320 TO NEW LEVEL 3 MANHOLE (STA. 124+00).

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 13 OF 52

DRAWING NO. UTL-B13 SHEET NO. 03.276

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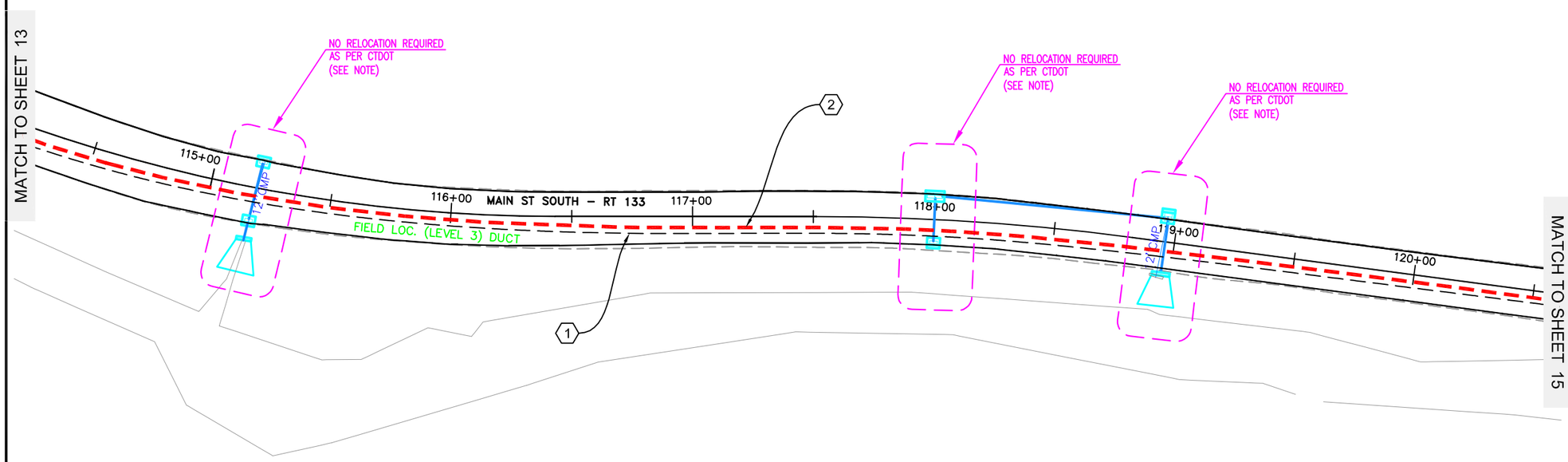

NOTE:
ALL PROPOSED DRAINAGE AND ROADWAY ELEVATIONS WILL BE VERIFIED BY CT DOT AT THE PRE-CONSTRUCTION MEETING.

As-Built Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity

SITE PLAN 4

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

Know what's below. Call before you dig.

CONSTRUCTION NOTES

1. EXISTING LEVEL 3 BACKBONE CABLE AND CONDUIT.
2. NEW LEVEL 3 FOC (180ct ARMORED LEAF) WITHIN EXISTING CONDUIT FROM MANHOLE #0020-2320 TO NEW LEVEL 3 MANHOLE (STA. 124+00).

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 14 OF 52

DRAWING NO. UTL-B14 SHEET NO. 03.277

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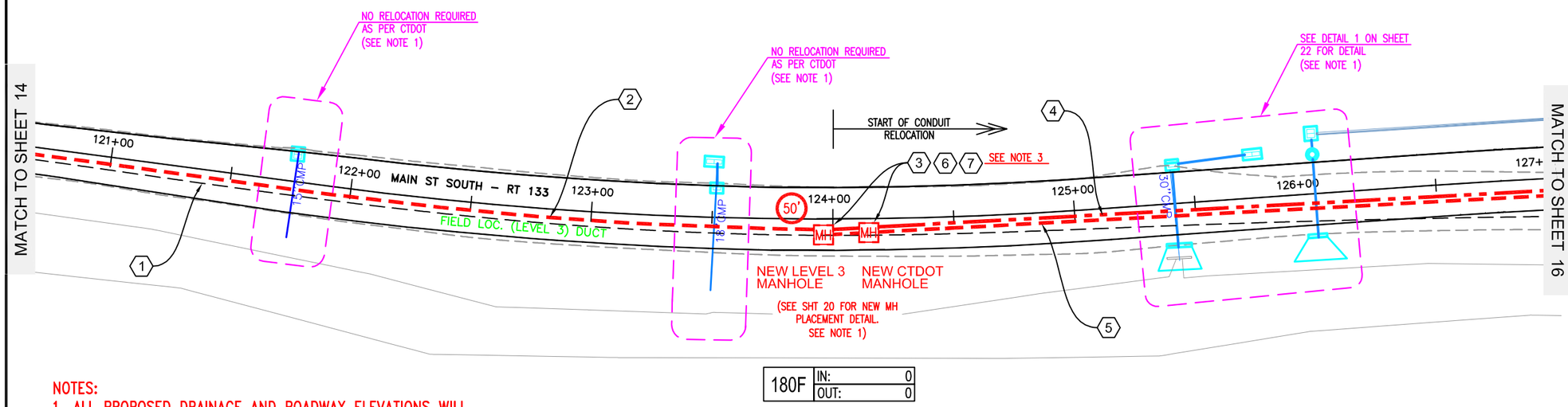
PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT			
STATION	OFFSET	R/L	ELEVATION
124+00	7.1'	R	243.59
124+50	4.7'	R	244.78
125+00	4.6'	R	244.37
125+50	5.2'	R	243.73
126+00	6.1'	R	244.20
126+50	6.9'	R	249.14
127+00	7.1'	R	252.31



180F	IN:	0
	OUT:	0

NOTES:

1. ALL PROPOSED DRAINAGE AND ROADWAY ELEVATIONS WILL BE VERIFIED BY CT DOT AT THE PRE-CONSTRUCTION MEETING.

2. THE NEW TRENCH WILL BE LOCATED AT THE BASELINE STATIONS AND ELEVATIONS AS SHOWN ON THESE PLANS AND AS DESCRIBED IN THE PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT TABLE.

3. CONTRACTOR SHALL INSTALL MANHOLE TO THE ELEVATION OF THE PROPOSED CONDUIT SYSTEM AND BUILD UP TO ROADWAY ELEVATION WITH CONCRETE BLOCK AND MORTAR.

CONSTRUCTION NOTES

1. EXISTING LEVEL 3 BACKBONE CABLE AND CONDUIT.
2. NEW LEVEL 3 FOC (180ct ARMORED LEAF) WITHIN EXISTING CONDUIT FROM MANHOLE #0020-2320 TO NEW LEVEL 3 MANHOLE (STA. 124+00).
3. INSTALL 2-NEW CONCRETE MANHOLES 4'x4'x4'. LEAVE 50' SLACK COIL FOR MAINTENANCE IN LEVEL 3 MANHOLE.
4. NEW 20-1.25" SDR11 HDPE CONDUITS AND NEW 1-3" SDR11 HDPE CONDUIT FROM NEW MANHOLE (STA. 124+00) TO NEW MANHOLE (STA. 139+00)
5. NEW LEVEL 3 FOC (180ct ARMORED LEAF) WITHIN NEW LEVEL 3 CONDUITS FROM NEW MANHOLE (STA. 124+00) TO NEW MANHOLE (STA. 139+00).
6. INSTALL 2-NEW MANHOLE FRAMES AND COVERS.
7. RESET 2 MANHOLE COVERS DURING FINAL ASPHALT PLACEMENT.

As-Built Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
UGB-30960 – Place up to 288 count FOC in conduit, up to 1500'	FOOT	50	
UGB-31310 – Place New – 48"x48"x48" – Concrete Manhole	EACH	2	
UGB-31570 – MH / HH Vertical Adjustments to Grade (frames, covers, or rings)	EACH	2	
MAT-91170 – Misc HH/MH Cover Only (must be pre-approved by Level 3)	EACH	2	

SITE PLAN 5

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

811 Know what's below. Call before you dig.

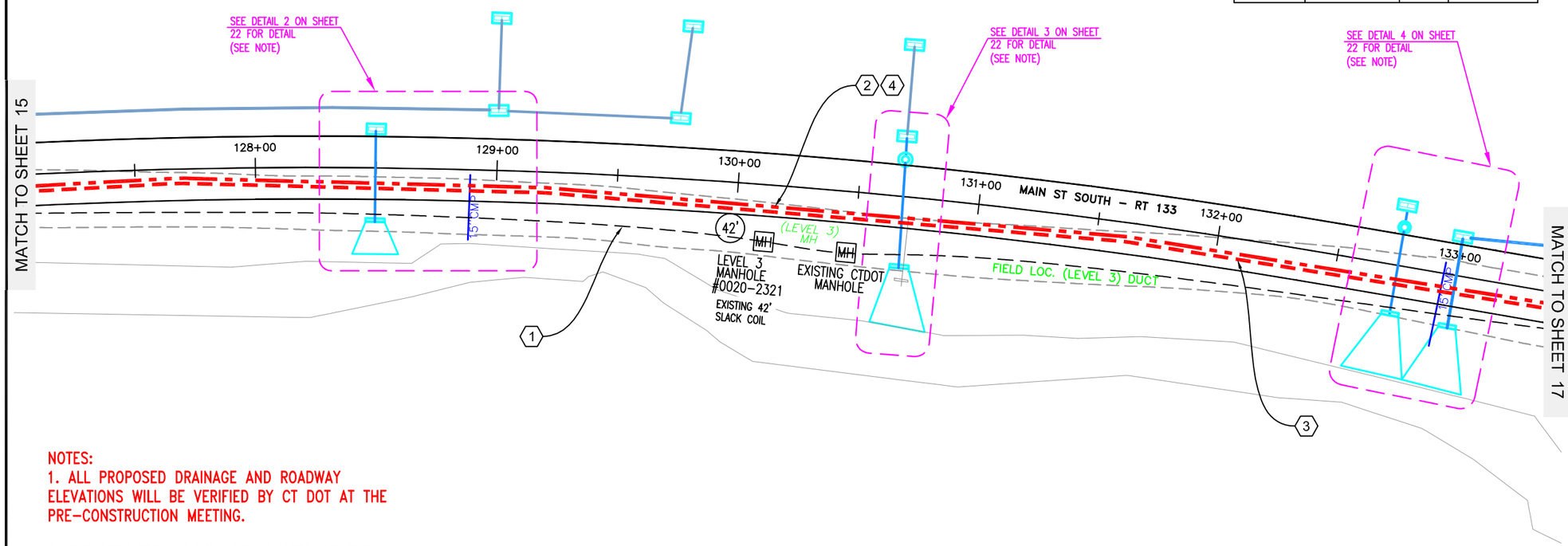
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT			
STATION	OFFSET	R/L	ELEVATION
127+50	6.3'	R	253.37
128+00	7.2'	R	252.50
128+50	8.5'	R	251.00
129+00	8.8'	R	255.04
129+50	9.7'	R	260.11
130+00	10.9'	R	262.01
130+50	11.1'	R	261.63
131+00	10.3'	R	264.60
131+50	8.5'	R	270.00
132+00	8.4'	R	272.20
132+50	8.3'	R	272.52
133+00	7.8'	R	273.54
133+50	6.9'	R	279.45



NOTES:
1. ALL PROPOSED DRAINAGE AND ROADWAY ELEVATIONS WILL BE VERIFIED BY CT DOT AT THE PRE-CONSTRUCTION MEETING.

2. THE NEW TRENCH WILL BE LOCATED AT THE BASELINE STATIONS AND ELEVATIONS AS SHOWN ON THESE PLANS AND AS DESCRIBED IN THE PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT TABLE.

CONSTRUCTION NOTES

1. EXISTING LEVEL 3 BACKBONE CABLE AND CONDUIT.

2. CONDUIT OWNER: LEVEL3
CONDUIT LENGTH: 1,500
CONDUIT QTY: 21
CONDUIT SIZE: 1.25"
CONDUIT TYPE: SDR11 HDPE
NOTES: NEW LEVEL 3 CONDUIT FROM NEW MANHOLE (STA. 124+00) TO NEW MANHOLE (STA. 139+00).

2. CONDUIT OWNER: LEVEL3
CONDUIT LENGTH: 1,500
CONDUIT QTY: 1
CONDUIT SIZE: 3"
CONDUIT TYPE: SDR11 HDPE
NOTES: NEW LEVEL 3 CONDUIT FROM NEW MANHOLE (STA. 124+00) TO NEW MANHOLE (STA. 139+00).

3. CABLE FIBERS: 180ct ARMORED LEAF
CABLE OWNER: LEVEL 3
CABLE LENGTH: 1,500
NOTES: INSTALL FOC WITHIN NEW LEVEL 3 CONDUIT FROM NEW MANHOLE (STA. 124+00) TO NEW MANHOLE (STA. 139+00).

4. INSTALL NEW LEVEL 3 CAUTION TAPE.

As-Built Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
UGB-30040 – Trench greater than 1500': Trench 36" minimum cover	FOOT	1,500	
UGB-30080 – Trench Rock ADDER	FOOT	1,500	
UGB-30170 – Place 12 – HDPE conduits in open trench up to 2"	FOOT	3,000	
UGB-30480 – Select Backfill: Sand	CU YD	222	
UGB-30500 – Select Backfill: CDF/Concrete Slurry – 2 Sack	CU YD	55.5	
UGB-30980 – Place up to 288 count FOC in conduit, greater than 1500'	FOOT	1,500	
UGB-31180 – Remove & Restore Paved Surface, Asphalt: 8" Depth	SQ FT	3,000	
MAT-92150 – Miscellaneous Materials – LEVEL 3 Cable Caution Tape	FOOT	1,500	
MAT-92150 – Miscellaneous Materials – Place 3" HDPE conduit in open trench	FOOT	1,500	

SITE PLAN 6

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

811 Know what's below. Call before you dig.

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

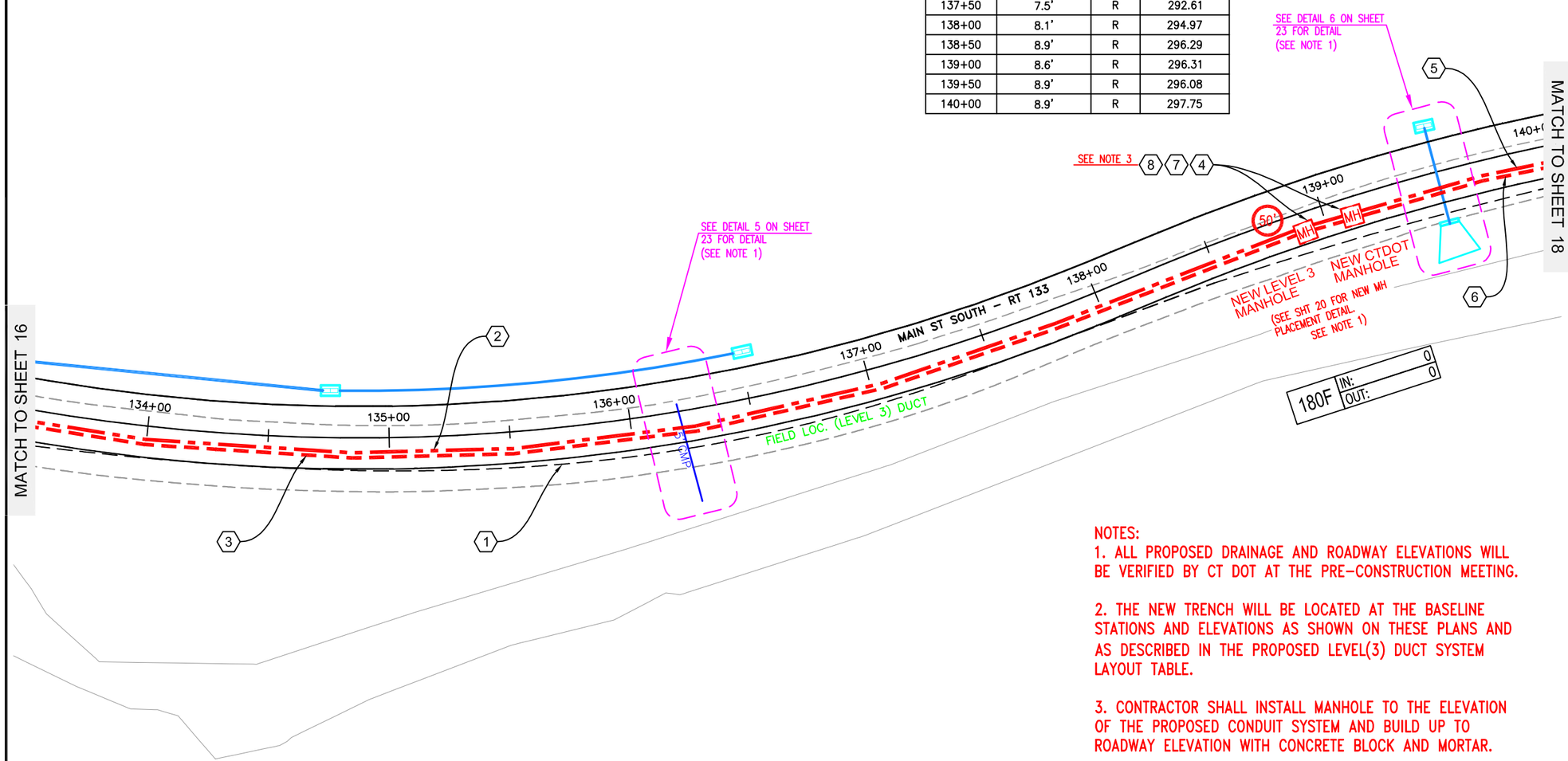
Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT			
STATION	OFFSET	R/L	ELEVATION
134+00	7.5'	R	281.91
134+50	7.0'	R	283.10
135+00	8.0'	R	284.02
135+50	9.0'	R	285.11
136+00	8.4'	R	285.34
136+50	8,4'	R	287.12
137+00	8.8'	R	290.29
137+50	7.5'	R	292.61
138+00	8.1'	R	294.97
138+50	8.9'	R	296.29
139+00	8.6'	R	296.31
139+50	8.9'	R	296.08
140+00	8.9'	R	297.75



NOTES:

1. ALL PROPOSED DRAINAGE AND ROADWAY ELEVATIONS WILL BE VERIFIED BY CT DOT AT THE PRE-CONSTRUCTION MEETING.

2. THE NEW TRENCH WILL BE LOCATED AT THE BASELINE STATIONS AND ELEVATIONS AS SHOWN ON THESE PLANS AND AS DESCRIBED IN THE PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT TABLE.

3. CONTRACTOR SHALL INSTALL MANHOLE TO THE ELEVATION OF THE PROPOSED CONDUIT SYSTEM AND BUILD UP TO ROADWAY ELEVATION WITH CONCRETE BLOCK AND MORTAR.

CONSTRUCTION NOTES

1. EXISTING LEVEL 3 BACKBONE CABLE AND CONDUIT.
2. NEW 20-1.25" SDR11 HDPE CONDUITS AND NEW 1-3" SDR11 HDPE CONDUIT FROM NEW MANHOLE (STA. 124+00) TO NEW MANHOLE (STA. 139+00).
3. NEW LEVEL 3 FOC (180ct ARMORED LEAF) WITHIN NEW LEVEL 3 CONDUITS FROM NEW MANHOLE (STA. 124+00) TO NEW MANHOLE (STA. 139+00).
4. INSTALL 2-NEW CONCRETE MANHOLES 4'x4'x4'. LEAVE 50' SLACK COIL FOR MAINTENANCE IN LEVEL 3 MANHOLE.
5. NEW 20-1.25" SDR11 HDPE CONDUITS AND NEW 1-3" SDR11 CONDUIT FROM NEW MANHOLE (STA. 139+00) TO NEW MANHOLE (STA. 154+00).
6. NEW LEVEL 3 FOC (180ct ARMORED LEAF) WITHIN NEW LEVEL 3 CONDUITS FROM NEW MANHOLE (STA. 139+00) TO NEW MANHOLE (STA. 154+00).
7. INSTALL 2-NEW MANHOLE FRAMES AND COVERS.
8. RESET 2 MANHOLE COVERS DURING FINAL ASPHALT PLACEMENT.

As-Built Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
UGB-30960 – Place up to 288 count FOC in conduit, up to 1500'	FOOT	50	
UGB-31310 – Place New – 48"x48"x48" – Concrete Manhole	EACH	2	
UGB-31570 – MH / HH Vertical Adjustments to Grade (frames, covers, or rings)	EACH	2	
MAT-91170 – Misc HH/MH Cover Only (must be pre-approved by Level 3)	EACH	2	

SITE PLAN 7

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

811 Know what's below. Call before you dig.

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 17 OF 52

DRAWING NO. UTL-B17 SHEET NO. 03.280

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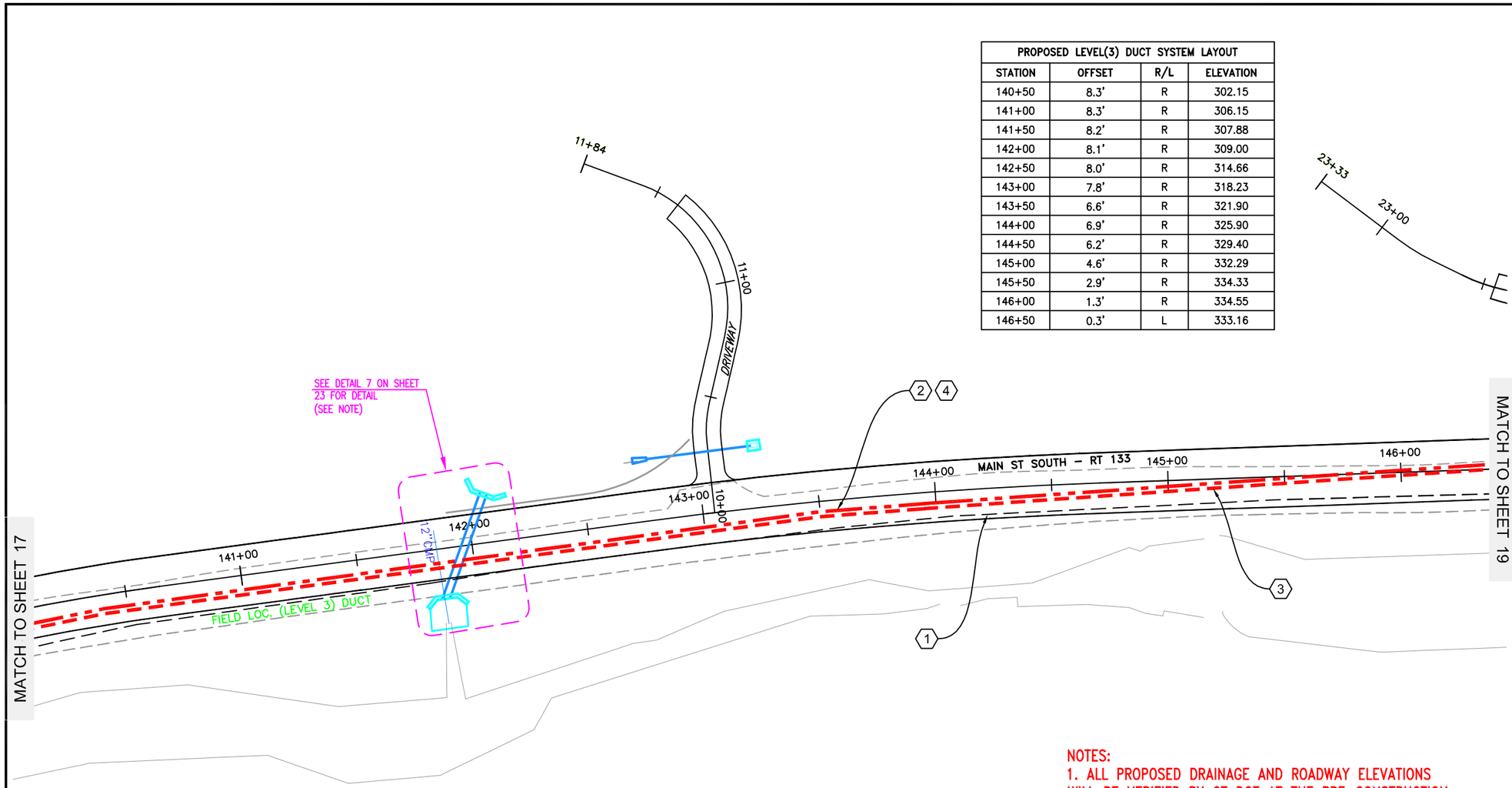


PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT			
STATION	OFFSET	R/L	ELEVATION
140+50	8.3'	R	302.15
141+00	8.3'	R	306.15
141+50	8.2'	R	307.88
142+00	8.1'	R	309.00
142+50	8.0'	R	314.66
143+00	7.8'	R	318.23
143+50	6.6'	R	321.90
144+00	6.9'	R	325.90
144+50	6.2'	R	329.40
145+00	4.6'	R	332.29
145+50	2.9'	R	334.33
146+00	1.3'	R	334.55
146+50	0.3'	L	333.16

CONSTRUCTION NOTES

1. EXISTING LEVEL 3 BACKBONE CABLE AND CONDUIT.

2. CONDUIT OWNER: LEVEL3
CONDUIT LENGTH: 1,500
CONDUIT QTY: 21
CONDUIT SIZE: 1.25"
CONDUIT TYPE: SDR11 HDPE
NOTES: NEW LEVEL 3 CONDUIT FROM NEW MANHOLE (STA. 139+00) TO NEW MANHOLE (STA. 154+00).

2. CONDUIT OWNER: LEVEL3
CONDUIT LENGTH: 1,500
CONDUIT QTY: 1
CONDUIT SIZE: 3"
CONDUIT TYPE: SDR11 HDPE
NOTES: NEW LEVEL 3 CONDUIT FROM NEW MANHOLE (STA. 139+00) TO NEW MANHOLE (STA. 154+00).

3. CABLE FIBERS: 180ct ARMORED LEAF
CABLE OWNER: LEVEL 3
CABLE LENGTH: 1,500
NOTES: INSTALL FOC WITHIN NEW LEVEL 3 CONDUIT FROM NEW MANHOLE (STA. 139+00) TO NEW MANHOLE (STA. 154+00).

4. INSTALL NEW LEVEL 3 CAUTION TAPE.

NOTES:
1. ALL PROPOSED DRAINAGE AND ROADWAY ELEVATIONS WILL BE VERIFIED BY CT DOT AT THE PRE-CONSTRUCTION MEETING.

2. THE NEW TRENCH WILL BE LOCATED AT THE BASELINE STATIONS AND ELEVATIONS AS SHOWN ON THESE PLANS AND AS DESCRIBED IN THE PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT TABLE.

As-Built Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
UGB-30040 – Trench greater than 1500': Trench 36" minimum cover	FOOT	1,500	
UGB-30080 – Trench Rock ADDER	FOOT	1,500	
UGB-30170 – Place 12 – HDPE conduits in open trench up to 2"	FOOT	3,000	
UGB-30480 – Select Backfill: Sand	CU YD	222	
UGB-30500 – Select Backfill: CDF/Concrete Slurry – 2 Sack	CU YD	55.5	
UGB-30980 – Place up to 288 count FOC in conduit, greater than 1500'	FOOT	1,500	
UGB-31180 – Remove & Restore Paved Surface, Asphalt: 8" Depth	SQ FT	3,000	
MAT-92150 – Miscellaneous Materials – LEVEL 3 Cable Caution Tape	FOOT	1,500	
MAT-92150 – Miscellaneous Materials – Place 3" HDPE conduit in open trench	FOOT	1,500	

SITE PLAN 8

Know what's **below.**
Call before you dig.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

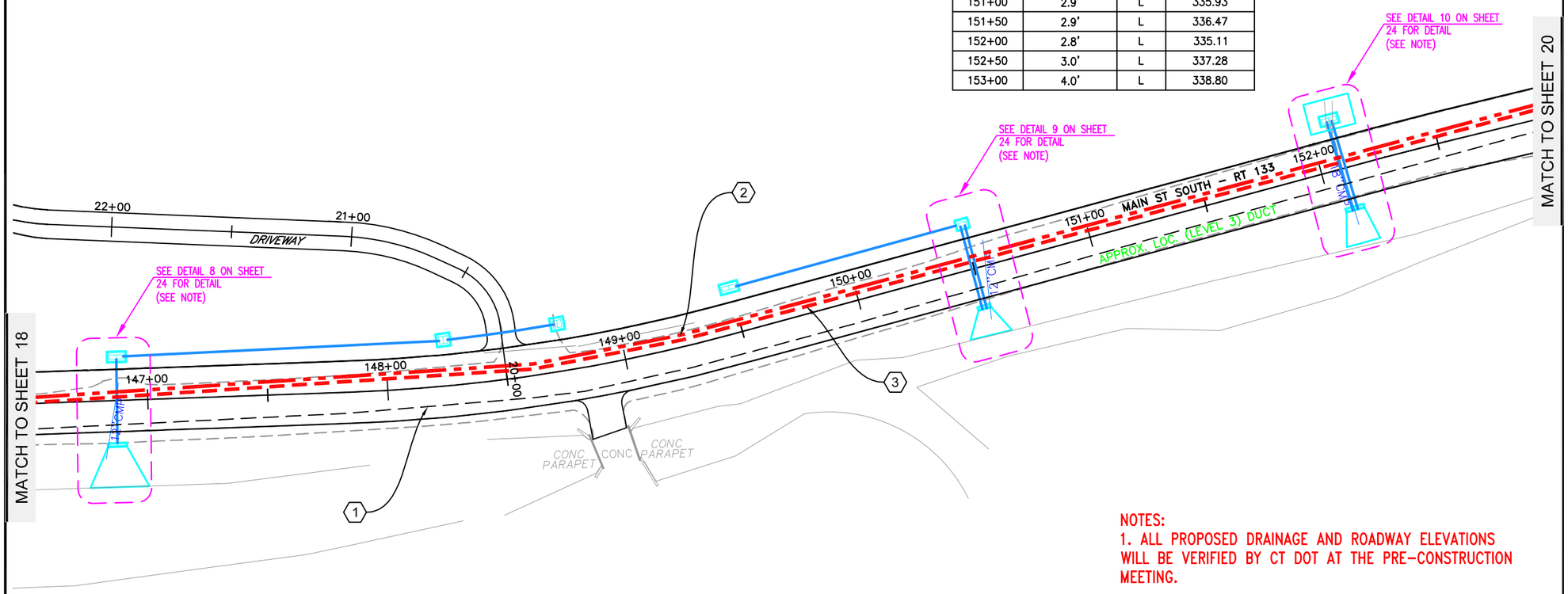
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

DRAWING NO. UTL-B18 SHEET NO. 03.281

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT			
STATION	OFFSET	R/L	ELEVATION
147+00	1.9'	L	332.31
147+50	3.4'	L	335.82
148+00	4.9'	L	337.20
148+50	3.5'	L	336.86
149+00	3.5'	L	336.52
149+50	3.1'	L	336.18
150+00	3.1'	L	335.67
150+50	3.0'	L	333.30
151+00	2.9'	L	335.93
151+50	2.9'	L	336.47
152+00	2.8'	L	335.11
152+50	3.0'	L	337.28
153+00	4.0'	L	338.80



CONSTRUCTION NOTES

1. EXISTING LEVEL 3 BACKBONE CABLE AND CONDUIT.
2. NEW 20-1.25" SDR11 HDPE CONDUITS AND NEW 1-3" SDR11 HDPE CONDUIT FROM NEW MANHOLE (STA. 139+00) TO NEW MANHOLE (STA. 154+00).
3. NEW LEVEL 3 FOC (180ct ARMORED LEAF) WITHIN NEW LEVEL 3 CONDUITS FROM NEW MANHOLE (STA. 139+00) TO NEW MANHOLE (STA. 154+00).

NOTES:

1. ALL PROPOSED DRAINAGE AND ROADWAY ELEVATIONS WILL BE VERIFIED BY CT DOT AT THE PRE-CONSTRUCTION MEETING.

2. THE NEW TRENCH WILL BE LOCATED AT THE BASELINE STATIONS AND ELEVATIONS AS SHOWN ON THESE PLANS AND AS DESCRIBED IN THE PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT TABLE.

As-Built Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity

SITE PLAN 9

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

811 Know what's below. Call before you dig.

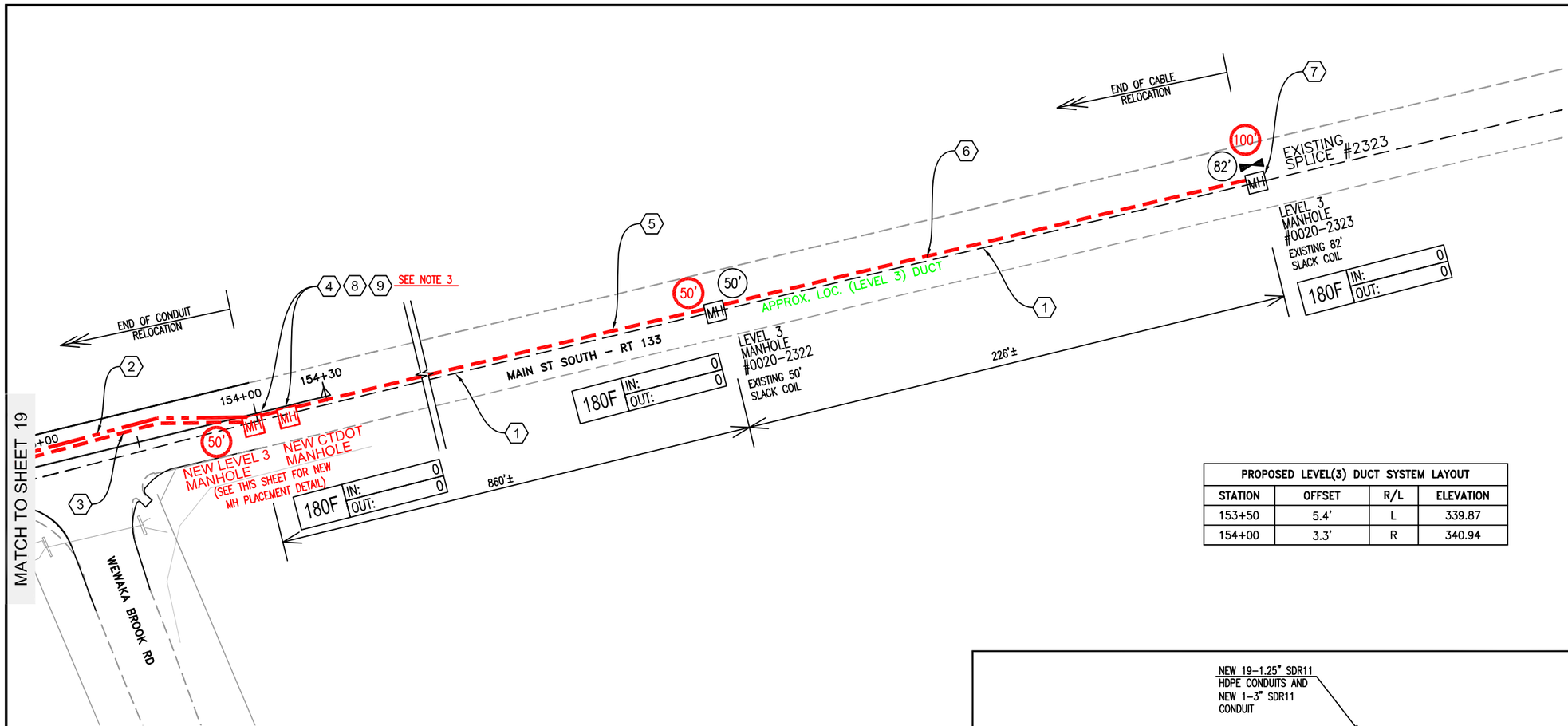
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



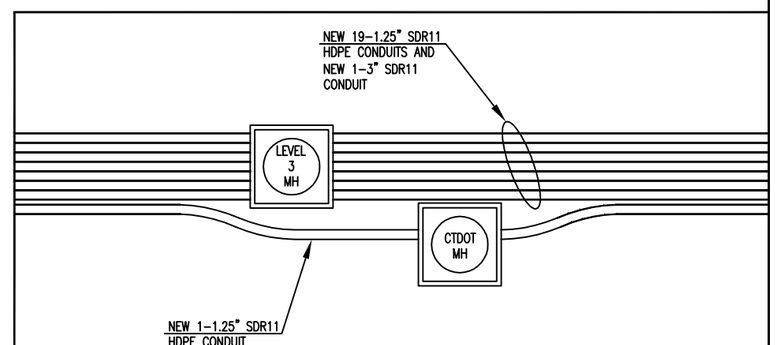
PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT			
STATION	OFFSET	R/L	ELEVATION
153+50	5.4'	L	339.87
154+00	3.3'	R	340.94

NOTES:

1. ALL PROPOSED DRAINAGE AND ROADWAY ELEVATIONS WILL BE VERIFIED BY CT DOT AT THE PRE-CONSTRUCTION MEETING.

2. THE NEW TRENCH WILL BE LOCATED AT THE BASELINE STATIONS AND ELEVATIONS AS SHOWN ON THESE PLANS AND AS DESCRIBED IN THE PROPOSED LEVEL(3) DUCT SYSTEM LAYOUT TABLE.

3. CONTRACTOR SHALL INSTALL MANHOLE TO THE ELEVATION OF THE PROPOSED CONDUIT SYSTEM AND BUILD UP TO ROADWAY ELEVATION WITH CONCRETE BLOCK AND MORTAR.



NEW MANHOLE PLACEMENT DETAIL

CONSTRUCTION NOTES

1. EXISTING LEVEL 3 BACKBONE CABLE AND CONDUIT.
2. NEW 20-1.25" SDR11 HDPE CONDUITS AND NEW 1-3" SDR11 HDPE CONDUIT FROM NEW MANHOLE (STA. 139+00) TO NEW MANHOLE (STA. 154+00).
3. NEW LEVEL 3 FOC (180ct ARMORED LEAF) WITHIN NEW LEVEL 3 CONDUITS FROM NEW MANHOLE (STA. 139+00) TO NEW MANHOLE (STA. 154+00).
4. INSTALL 2-NEW CONCRETE MANHOLES 4'x4'x4'. LEAVE 50' SLACK COIL FOR MAINTENANCE IN LEVEL 3 MANHOLE.
5. CONDUIT OWNER: LEVEL 3
   CONDUIT LENGTH: 860'
   CONDUIT QTY: 1
   CONDUIT SIZE: 1.25"
   CONDUIT TYPE: SDR11 HDPE
   NOTES:
5. CABLE FIBERS: 180ct ARMORED LEAF
   CABLE OWNER: LEVEL 3
   CABLE LENGTH: 860'
   NOTES: INSTALL FOC WITHIN EXISTING LEVEL 3 CONDUIT.
6. CONDUIT OWNER: LEVEL 3
   CONDUIT LENGTH: 226'
   CONDUIT QTY: 1
   CONDUIT SIZE: 1.25"
   CONDUIT TYPE: SDR11 HDPE
   NOTES:
6. CABLE FIBERS: 180ct ARMORED LEAF
   CABLE OWNER: LEVEL 3
   CABLE LENGTH: 226'
   NOTES: INSTALL FOC WITHIN EXISTING LEVEL 3 CONDUIT.
7. EXISTING LEVEL 3 MANHOLE #0020-2323. LEAVE 100' SLACK COIL FOR SPLICE INTO EXISTING LEVEL 3 SPLICE ENCLOSURE #2323. (SEE GENERAL NOTES FOR SPLICE DETAILS)
8. INSTALL 2-NEW MANHOLE FRAMES AND COVERS.
9. RESET 2 MANHOLE COVERS DURING FINAL ASPHALT PLACEMENT.

As-Built Page Rake Off			
Unit Code & Description	Units	Estimated Quantity	Actual Quantity
ENG-10110 – Rod & Proof Existing Conduit (including install pull rope)	FOOT	1,086	
UGB-30960 – Place up to 288 count FOC in conduit, up to 1500'	FOOT	1,286	
UGB-31310 – Place New – 48"x48"x48" – Concrete Manhole	EACH	2	
UGB-31570 – MH / HH Vertical Adjustments to Grade (frames, covers, or rings)	EACH	2	
MAT-91170 – Misc HH/MH Cover Only (must be pre-approved by Level 3)	EACH	2	
SPL-50080 – Enter existing Splice Enclosure	EA	1	
SPL-50110 – OSP Setup/Teardown per location	EA	1	
SPL-50140 – Splice OSP loose tube 97 to 288 per location	EA	180	
SPL-50360 – Fiber Test per Fiber, greater than 72 Unidirectional OTDR with Trace	EA	180	

SITE PLAN 10

Know what's below. Call before you dig.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level (3) COMMUNICATIONS

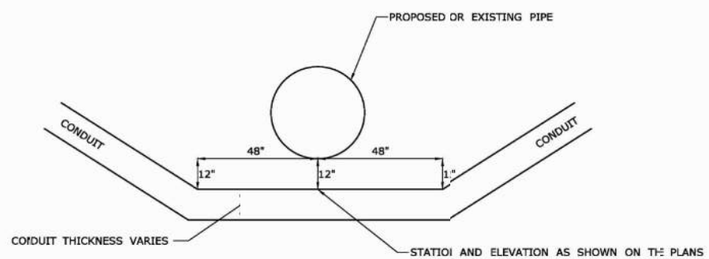
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 20 OF 52

DRAWING NO. UTL-B20 SHEET NO. 03.283

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

DRAINAGE CROSSING DETAIL



TYPICAL SECTION AT DRAINAGE CROSSINGS

NOTES:

1. MAINTAIN THE ELEVATION SHOWN ON THE PLANS FOR 18" ON EITHER SIDE OF AN EXISTING OR PROPOSED DRAINAGE CROSSING.
2. CONDUIT INCLUDES CABLE FIBERS AND ANY FLOW FILL OR CONCRETE FOR ENCASEMENT

NOTES:
THE PROFILE MAY BE MISLEADING, IN ORDER TO ENSURE PROPER INSTALLATION OF THE PROPOSED DRAINAGE IN THE FUTURE STATE PROJECT THERE NEEDS TO BE 48" OF CLEARANCE ON EITHER SIDE OF THE CENTER OF THE PIPE.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/13/2016

DESIGNER/DRAFTER: KAM
CHECKED BY: JDP
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_Level 3 Pipe-Conduit Detd.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: LEVEL 3 DETAIL

PROJECT NO. 16-98
DRAWING NO.
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
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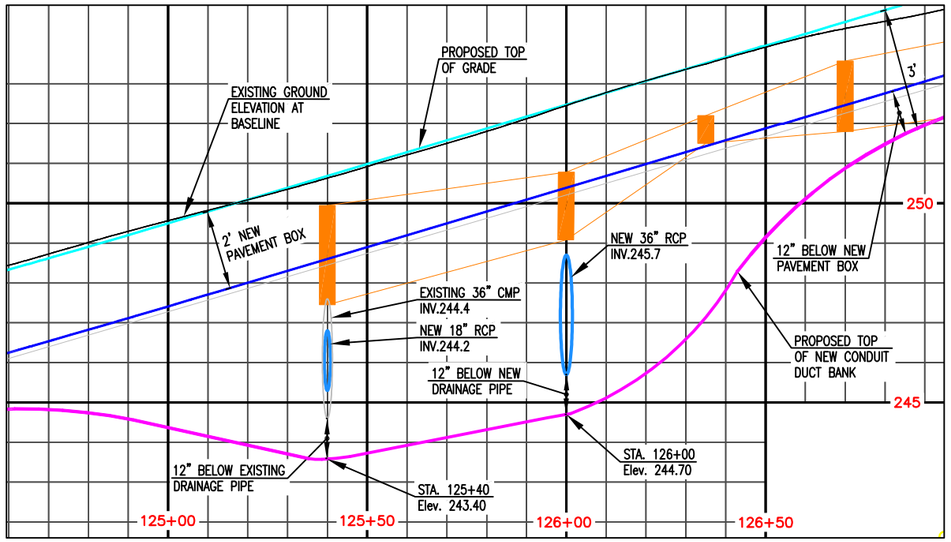
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

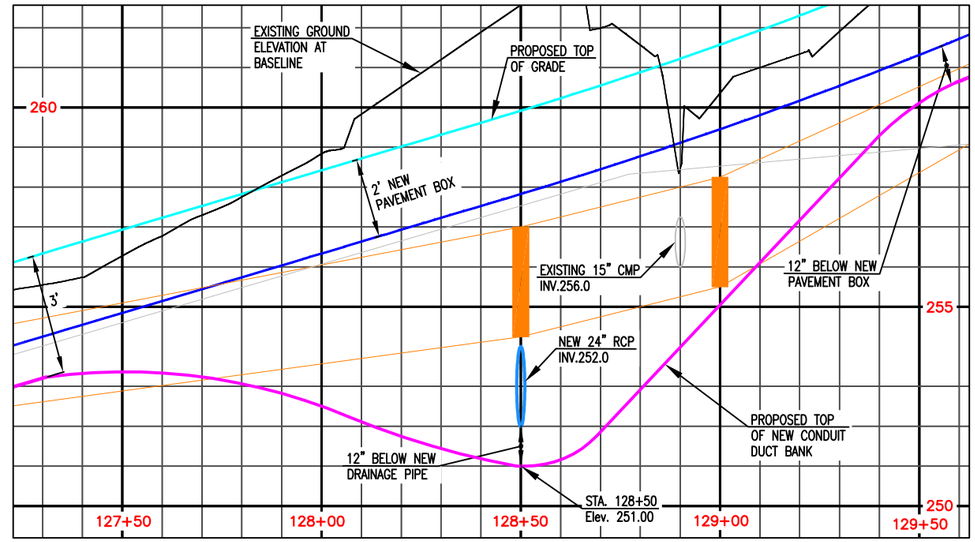
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

DRAWING NO. UTL-B21 SHEET NO. 03.284

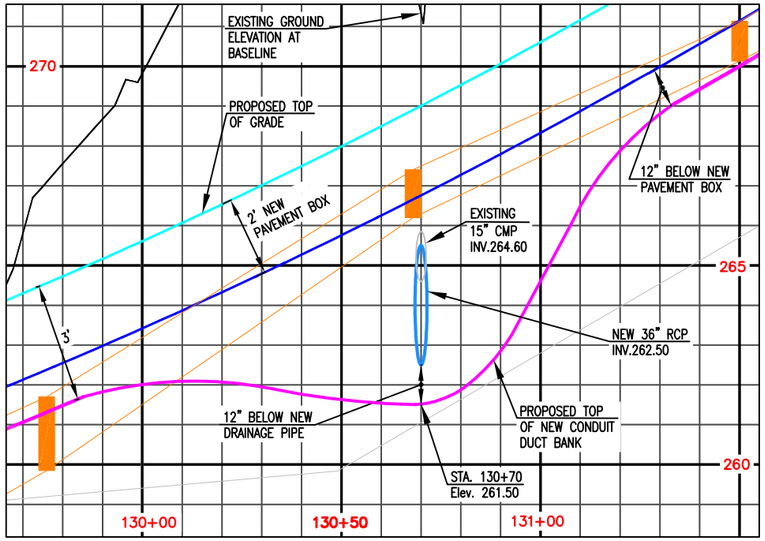
WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



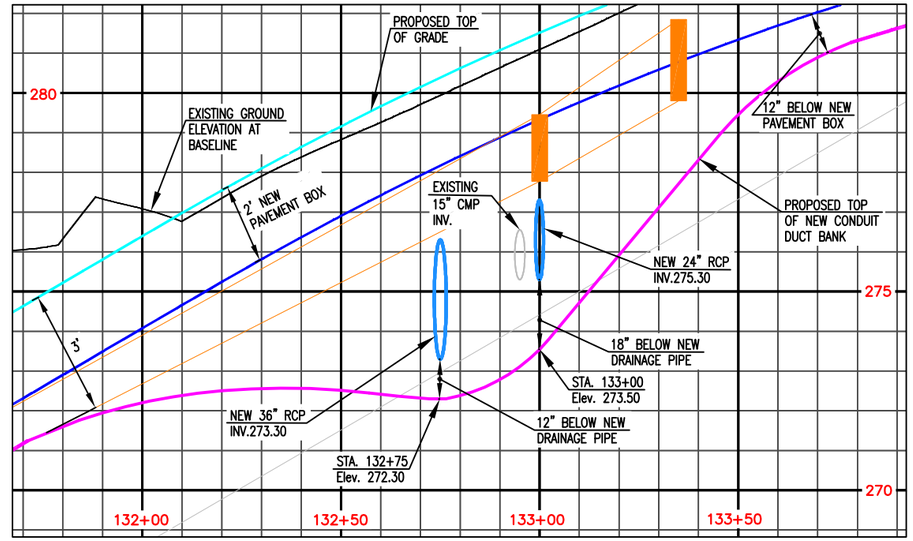
DETAIL 1



DETAIL 2



DETAIL 3



DETAIL 4

CONSTRUCTION NOTES

– TEST PIT LOCATION

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
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1	08/27/15	RFB	OG	ORIGINAL

Know what's **below.** **Call** before you dig.

Level 3 COMMUNICATIONS

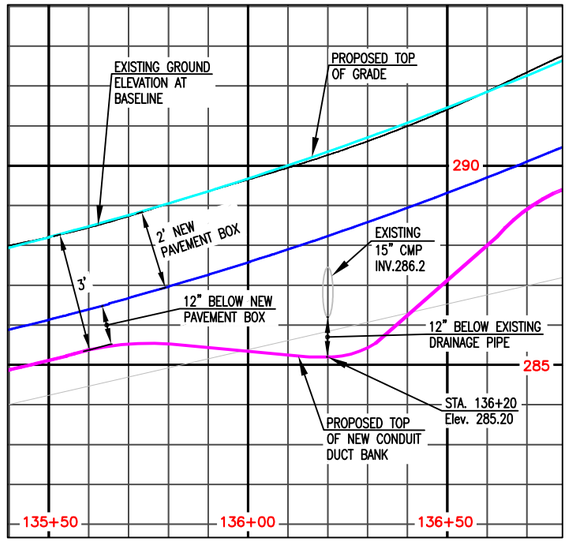
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CROSS SECTION 1

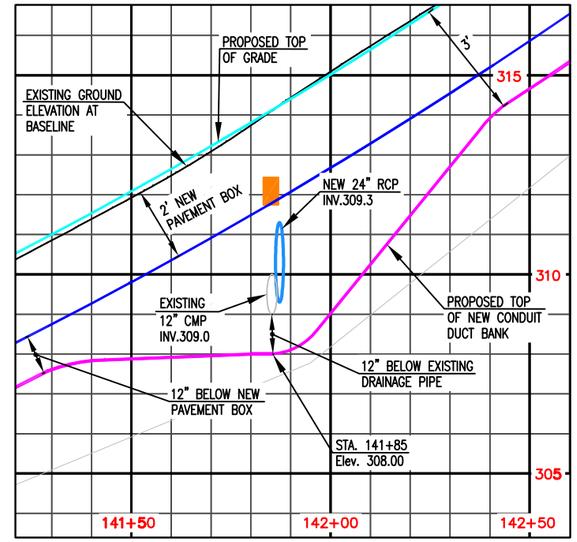
2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

DRAWING NO. UTL-B22 SHEET NO. 03.285

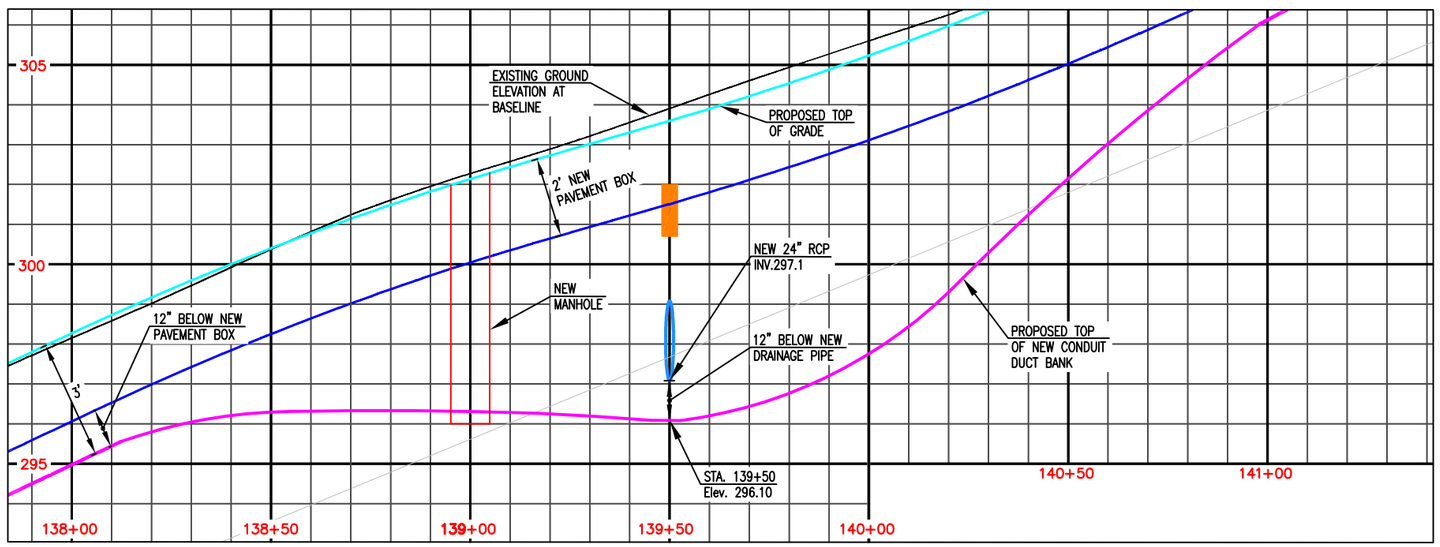
CONFIDENTIAL AND PROPRIETARY



DETAIL 5



DETAIL 7



DETAIL 6

CROSS SECTION 2

CONSTRUCTION NOTES

– TEST PIT LOCATION

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
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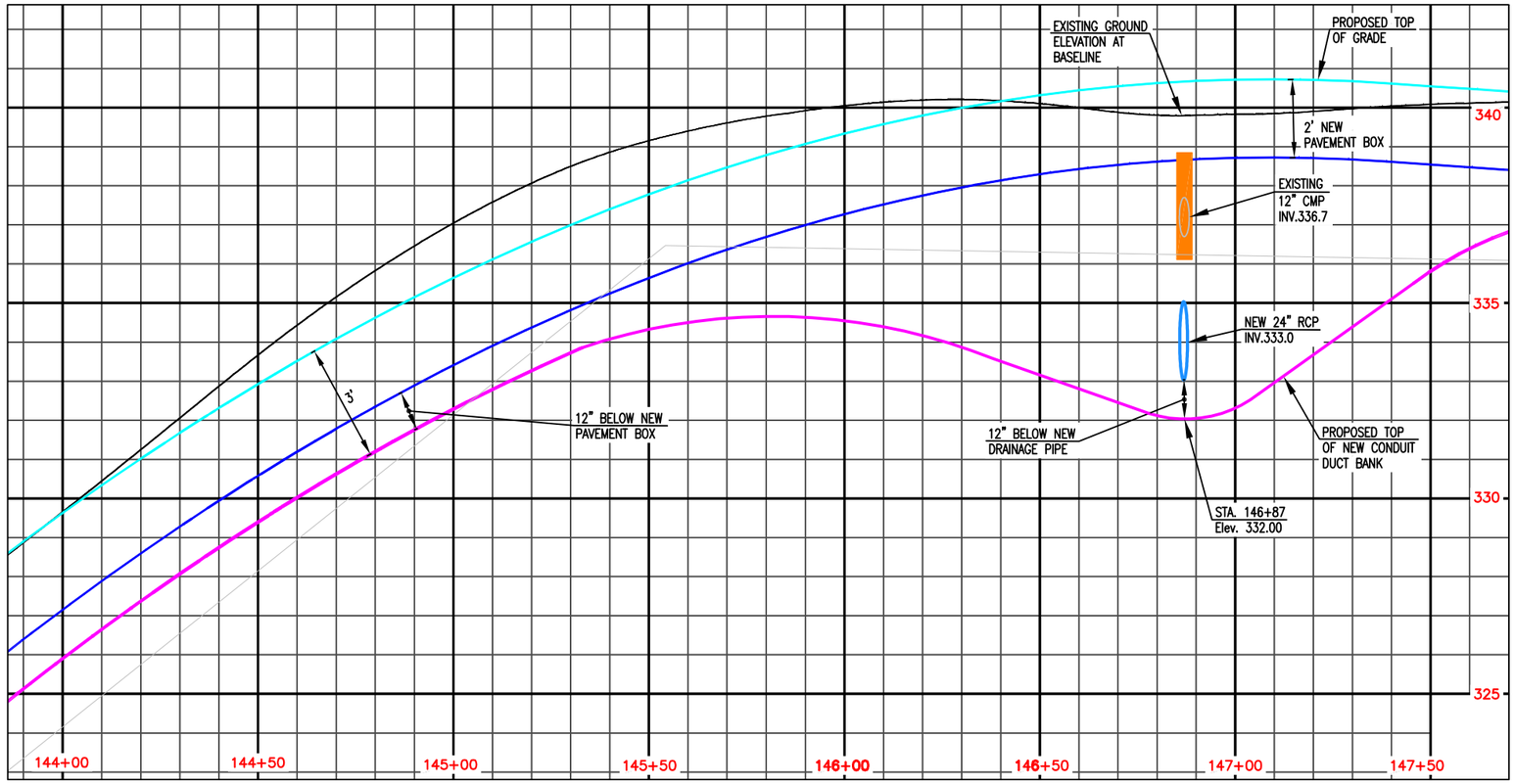
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

811 Know what's below. Call before you dig.

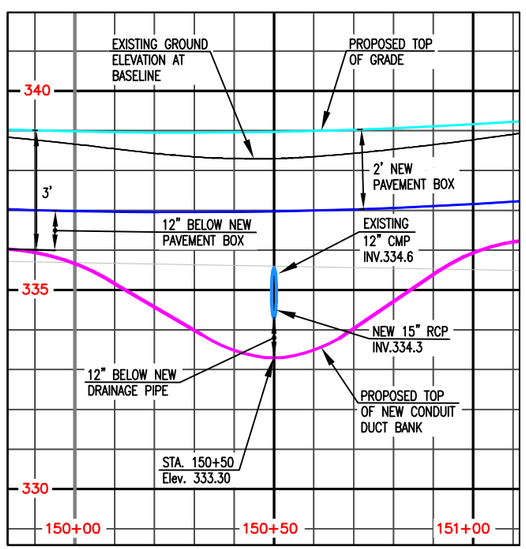
Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

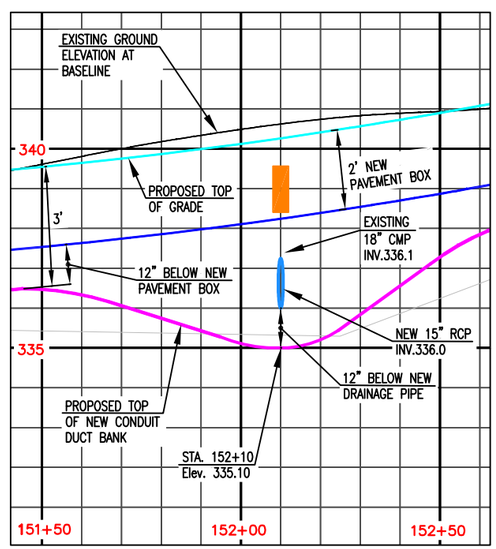
CONFIDENTIAL/PROPRIETARY



DETAIL 8



DETAIL 9



DETAIL 10

CROSS SECTION 3

CONSTRUCTION NOTES

– TEST PIT LOCATION

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6	03/02/16	RFB	OG	REVISION #5
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2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Know what's below. Call before you dig.

Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

RAKE OFF TABLES

Total Underground Rake Off

Unit Code & Description	Units	Estimated Quantity	Actual Quantity
ENG-10110 – Rod & Proof Existing Conduit (including install pull rope)	FOOT	22,374	
UGB-30040 – Trench greater than 1500': Trench 36" minimum cover	FOOT	3,000	
UGB-30080 – Trench Rock ADDER	FOOT	3,000	
UGB-30170 – Place 12 – HDPE conduits in open trench up to 2"	FOOT	6,000	
UGB-30480 – Select Backfill: Sand	CU YD	444	
UGB-30500 – Select Backfill: CDF/Concrete Slurry – 2 Sack	CU YD	111	
UGB-31570 – MH / HH Vertical Adjustments to Grade (frames, covers, or rings)	EACH	6	
UGB-30980 – Place up to 288 count FOC in conduit, greater than 1500'	FOOT	26,124	
UGB-31180 – Remove & Restore Paved Surface, Asphalt: 8" Depth	SQ FT	6,000	
UGB-31310 – Place New – 48"x48"x48" – Concrete Manhole	EACH	6	
SPL-50080 – Enter existing Splice Enclosure	EA	2	
SPL-50110 – OSP Setup/Teardown per location	EA	2	
SPL-50140 – Splice OSP loose tube 97 to 288 per location	EA	360	
SPL-50360 – Fiber Test per Fiber, greater than 72 Unidirectional OTDR with Trace	EA	360	
MAT-91170 – Misc HH/MH Cover Only (must be pre-approved by Level 3)	EACH	6	
MAT-92150 – Miscellaneous Materials – LEVEL 3 Cable Caution Tape	FOOT	3,000	
MAT-92150 – Miscellaneous Materials – Place 3" HDPE conduit in open trench	FOOT	3,000	

Total Aerial Rake Off

Unit Code & Description	Units	Estimated Quantity	Actual Quantity

Total Inside Plant (ISP) Rake Off

Unit Code & Description	Units	Estimated Quantity	Actual Quantity

NOTE:
Contractor will furnish and install all material other then Fiber Optic cable and Splice closures.

Know what's **below.**
Call before you dig.

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973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
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3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

SUBSET
TRAFFIC - LEGENDS & LIST OF DRAWINGS

STANDARD CONVENTIONS

HEDGE LINE	PICKET FENCE	EXISTING CULVERT
BIT. CONC. LIP CURBING	BOARD FENCE	PROPOSED CULVERT
CURB	WIRE FENCE	
STATED WHETHER STONE or CONC.	GRAPE/ARBOR	HOUSE / BARN
STONE WALL		BUILDINGS
CONC. WALK	RETAINING WALL	
WALK - TAR, GRAVEL or EARTH	OPEN DITCH OR	RIVERS, LAKES, FLOWING STREAMS, ETC.
RAIL OF CO.		
EXISTING R.R. TRACKS	TELEGRAPH TELEPHONE or ELECTRIC LIGHT POLES	SWAMP
PROPOSED R.R. TRACKS	GUIDE RAIL (NOTE TYPE)	
TAKING LINE		C.B.
TAKING LINE NA or NA LINE	LEDGE or ROCK	RANDOM STONE
EASEMENT LINE	HYDRANT	HIGHWAY MON. C.H.D. MONUMENT
PROPERTY LINE	TREE DECIDIOUS EVERGREEN	
TOWN LINE	NORTH ARROW (MAGNETIC)	EXISTING TRAVEL PATH

STANDARD TRAFFIC SIGNAL CONVENTONS

○	PROPOSED WOOD SPAN POLE
●	EXISTING WOOD SPAN POLE
□	PROPOSED STEEL SPAN POLE
■	EXISTING STEEL SPAN POLE
⊠	PROPOSED COMBINATION SPAN POLE
⊠	EXISTING COMBINATION SPAN POLE
	PROPOSED UTILITY POLE
	EXISTING UTILITY POLE
□	PEDESTAL MOUNTING
⊡	PEDESTAL PUSH BUTTON
	TRAFFIC SIGNAL FACE
	PEDESTRIAN SIGNAL FACE
	CONTROLLER
□	LOOP DETECTOR
	LOOP LEADS IN SAWCUT
■	MAGNETIC DETECTOR
⊡	HANDHOLE
	CONDUIT
	PORCELAIN STRAIN INSULATOR
	CABLE CLOSURE

SIGNING STANDARD CONVENTIONS

	OVERHEAD INSTALLATION
	CANTILEVER INSTALLATION
	SIDE MOUNTED INSTALLATION
	SINGLE POST MOUNTING / DOUBLE POST MOUNTING — REGULATORY, WARNING OR GUIDE SIGN INSTALLATION
	SIDE MOUNTED EXTRUDED ALUMINUM SIGN
	SINGLE POST MOUNTING SHEET ALUMINUM BACK TO BACK
	DOUBLE POST MOUNTING SHEET ALUMINUM BACK TO BACK
	SIDE MOUNTED EXTRUDED ALUMINUM SIGN BACK TO BACK
00-000-00 / 0	LOCATION NO. EXTRUDED ALUMINUM SIGNS
00 / 00-0	LOCATION NO. / SIGN NO. — SHEET ALUMINUM SIGNS

LIST OF DRAWINGS

DWG. NO.	SHEET NO.	TITLE
TR-01		SUBSET TITLE SHEET
DTR-01		DETOUR PLAN
SPM-01		SIGNING AND PAVEMENT MARKING PLAN
GS-1		GUIDE SHEET X
GS-2		GUIDE SHEET Y

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

PRINCIPAL ENGINEER

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
--	--	--	--
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted Date: 4/30/2015

DESIGNER/DRAFTER: OF
CHECKED BY: PJC
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plans\TR_MSH_CVR_16_0098.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE:
SUBSET TITLE SHEET

PROJECT NO. 16-98
DRAWING NO. TR-01
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

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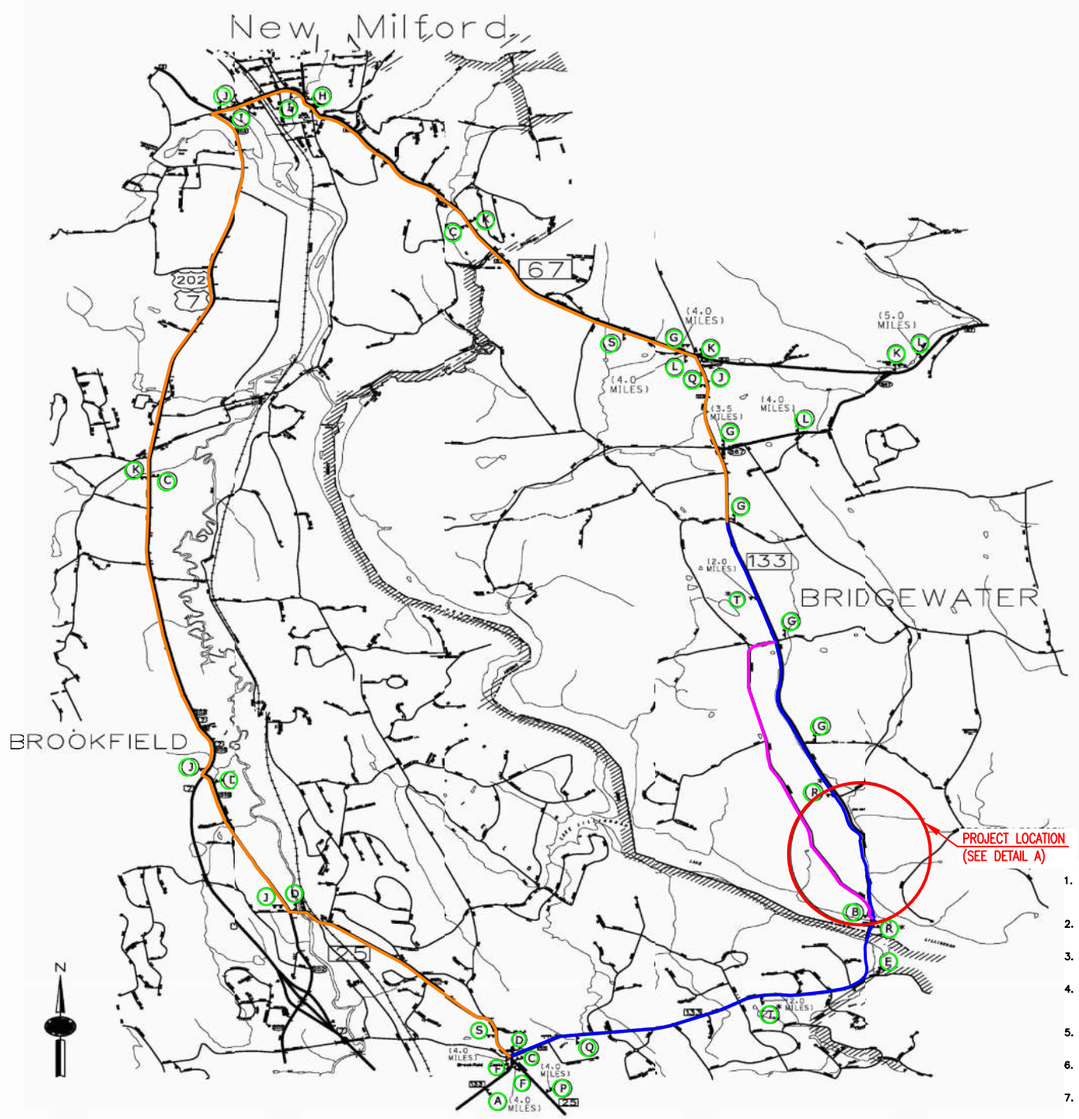
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

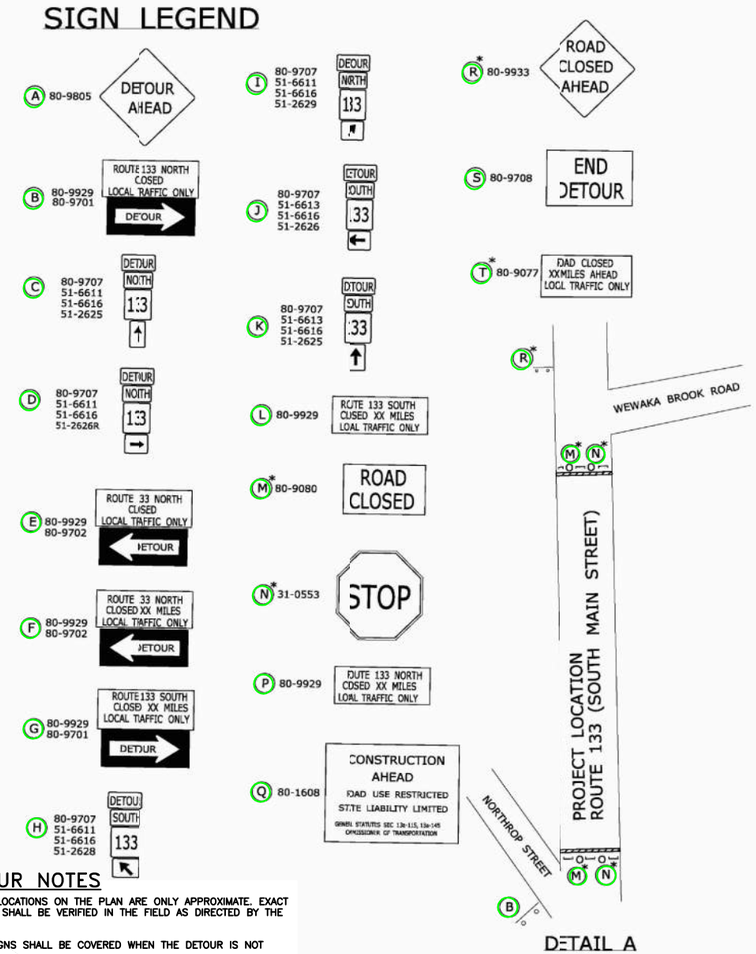
Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY



SIGN LEGEND



DETOUR NOTES

1. ALL SIGN LOCATIONS ON THE PLAN ARE ONLY APPROXIMATE. EXACT LOCATIONS SHALL BE VERIFIED IN THE FIELD AS DIRECTED BY THE ENGINEER.
2. DETOUR SIGNS SHALL BE COVERED WHEN THE DETOUR IS NOT REQUIRED.
3. DETOUR SIGNS SHALL BE REMOVED WHEN THE DETOUR IS NO LONGER REQUIRED.
4. EXISTING SIGNS WHICH CONFLICT WITH THE DETOUR SIGNS SHALL BE COVERED, REMOVED, OR REVISED AS DIRECTED BY THE ENGINEER.
5. ALL COSTS ASSOCIATED WITH PROVIDING THE NECESSARY DETOUR SIGNAGE SHALL BE RESPONSIBILITY OF THE LEVEL 3 CONTRACTOR.
6. ACCESS AND EGRESS TO ALL STREETS AND DRIVES MUST BE MAINTAINED AT ALL TIMES.
7. TWO WEEKS PRIOR TO INITIATING THE DETOUR. INSTALL ONE VMS AT BOTH APPROACHES OF PROJECT LIMITS. MESSAGE: "ROUTE 133 CLOSED TO THRU TRAFFIC FROM 00/00 TO 00/00"

LEGEND

-] CONSTRUCTION BARRICADE TYPE III
- O TRAFFIC DRUM
- ↑ SINGLE POST-MOUNTED SIGN
- ↕ DOUBLE POST-MOUNTED SIGN
- ✱ BARRICADE WARNING LIGHTS HIGH INTENSITY
- T.P.C.B.C

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/4/2015

DESIGNED/DRAFTED: OF
CHECKED BY: PJC
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_SPM_016_0098_002.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER
DRAWING TITLE: DETOUR PLAN

PROJECT NO. 16-98
DRAWING NO. DTR-01
SHEET NO.

NOTES:
1. BRIDGEWATER POLICE DEPARTMENT CONTACT FOR TRAFFIC CONTROL:
LIEUTENANT DAVE PECK, CSP BRIDGEWATER RESIDENT TROOPER'S OFFICE
(860) 355-9375

2. PASSENGER CAR ACCESS THROUGH THE WORK ZONE TO THREE PRIVATE RESIDENCES AT 678, 679 AND 709 SOUTH MAIN STREET IS REQUIRED AND MUST BE MAINTAINED. ACCESS IS ONLY REQUIRED FROM THE NORTHERN ROAD CLOSURE BY WEWAKA BROOK ROAD, STA. 153+00.
A MINIMUM OF A 12FT WIDE TRAVEL PATH ON PROCESSED AGGREGATE OR A PAVED SURFACE SHALL BE MAINTAINED FOR THE PRIVATE RESIDENCES AT ALL TIMES DURING THE ROAD CLOSURE.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

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1	08/27/15	RFB	OG	ORIGINAL

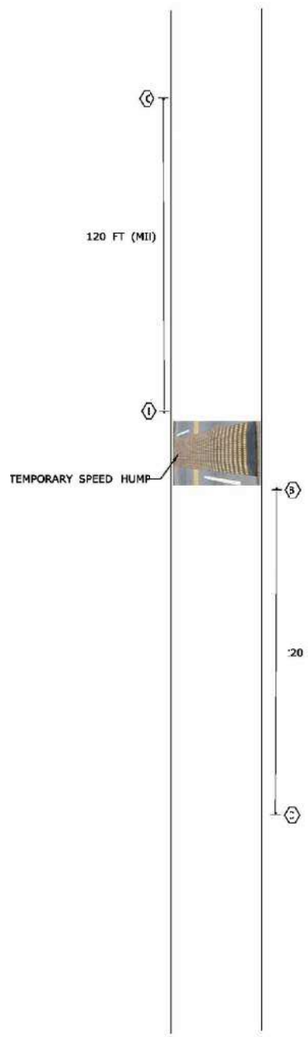
Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 27 OF 52

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

TYPICAL SIGNING PLAN



SIGN LEGEND

A 31-5504
CMS - ITEM # 131006A
STATIONARY OR PORTABLE

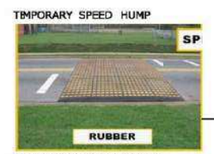
B 41-4591
41-2607

C 41-4591
41-6112

NOTES

1. REFER TO THE ROADWAY PLANS FOR EXACT LOCATIONS OF SPEED HUMPS.
2. SIGN (A) TO BE INSTALLED ON NORTHRUP STREET AT A LOCATION DETERMINED BY THE ENGINEER.
3. EXACT LOCATIONS OF SIGNS TO BE VERIFIED BY THE ENGINEER.
4. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH DOT STANDARD SHEETS TR-1210-03 "SPECIAL DETAILS AND TYPICAL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS" UNLESS OTHERWISE NOTED ON THE PLANS.
5. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH DOT STANDARD SHEETS TR-208-01 "SIGN SUPPORT AND SIGN PLACEMENT DETAILS GORE EXIT SIGN" AND TR-208-02 "METAL SIGN POSTS AND SIGN MOUNTING DETALS" UNLESS OTHERWISE NOTED ON THE PLANS.
6. SHEET ALUMINUM SIGNS TO BE PAID FOR UNDER ITEM # 1220013 - CONSTRUCTION SIGNS - FLUORESCENT SHEETING.

SPEED HUMP PAVEMENT MARKING DETAIL

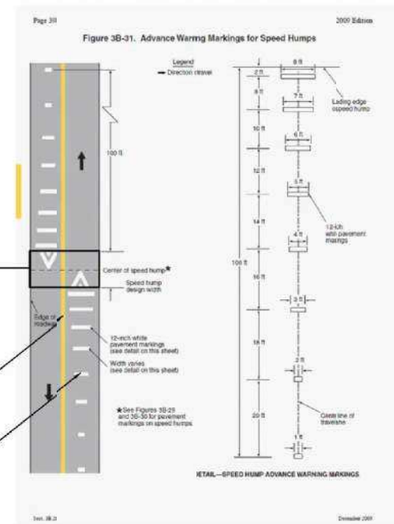


TEMPORARY SPEED HUMP TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

TEMPORARY SPEED HUMP

CENTERLINE PAVEMENT MARKINGS MAY BE OMITTED FOR THIS PROJECT.

TEMPORARY PAVEMENT MARKING TAPE



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OR ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/4/2018

DESIGNER/DRAFTER: OF
CHECKED BY: PJC
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_SPM_016.0098_00.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO. 16-98
DRAWING NO. SPM-01
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 28 OF 52

DRAWING NO. UTL-B28 SHEET NO. 03.291

SPEED CUSHION LOCATION PLAN

NOTE:
SEE SHEET 28 FOR SPEED CUSHION DETAILS.

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

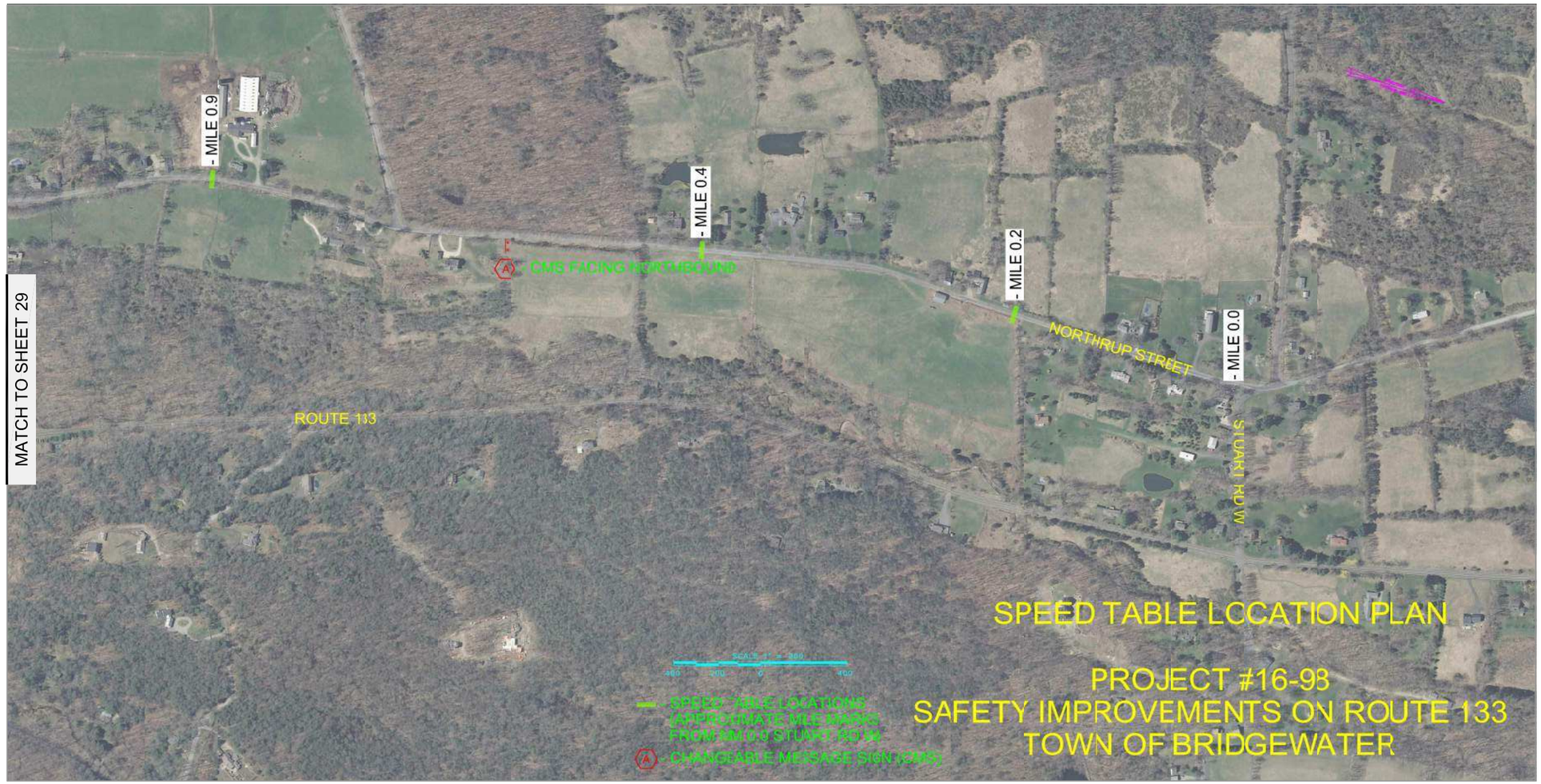
Level 3 COMMUNICATIONS

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION
BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

SPEED CUSHION LOCATION PLAN



NOTE:
SEE SHEET 28 FOR SPEED CUSHION DETAILS.

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 30 OF 52

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

RUBBER SPEED CUSHION INSTALLATION

Work under this item shall consist of furnishing, installing, and removing rubber speed cushions used as traffic calming devices on local roads.

Rubber, synthetic rubber, or recycled rubber speed cushions shall be manufactured by Traffic Logix, Road Kare International, or an approved equal

Provide all hardware necessary to install speed cushions as directed by the manufacturer

Pavement sealant recommended by the manufacturer to patch holes in pavement from drilled holes upon removal or a material approved by the Engineer

The Contractor shall provide a clean, dry location for storage of materials until they are installed.

Install the speed cushions utilizing the appropriate tools and methods specified by the manufacturer. Follow the manufacturers' recommendations unless otherwise directed by the Engineer. Ensure speed cushions are securely fastened to the pavement at all times.

Install the speed cushions within the week prior to the detour period and remove within the week after Route 133 is re-opened to two-way traffic. During the detour period the speed cushions shall be maintained by the contractor. This includes the purchase of replacement speed cushion units and/or hardware due to damage to the speed cushion, loss of functionality of the speed cushion or as deemed necessary by the Engineer.

If the speed cushions are relocated and/or removed the lag bolt holes or any other damage to the pavement must be filled and/or repaired in accordance with the manufacturers' recommendations. The Engineer may require the pavement be reconstructed or patched based on the extent of the damage caused by the speed cushions and associated hardware.

Remove the rubber speed cushions in accordance with the manufacturers' recommendations or as directed by the Engineer.

Rubber speed cushions shall be installed at five locations on Northrup Street. Starting at the intersection of Stuart Street West as mile marker 0.0 and heading south. The speed cushions will be installed at mile markers 0.2, 0.4, 0.9, 1.3 and 1.8.

All rubber speed cushions and associated hardware required for installation shall be salvaged and provided to the Town of Bridgewater upon removal from Northrup Street.

To coordinate the salvage of the rubber speed cushion materials please contact the Town of Bridgewater Public Works Director:

Brian Sullivan – (860) 354-2441 – BrianSullivan1211@gmail.com

To be considered salvageable, the above items must be in good condition as determined by the Engineer. The Contractor shall exercise reasonable care in the removal, dismantling, transportation and unloading of the salvageable materials at the Town of Bridgewater Storage Facility, and shall be responsible for any unnecessary damage caused by his actions.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

R1 - SERIES

R1-1 *

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.31	24	31-0536	1	.080
5.19	30	31-0552	1	.080
7.98	36	31-0553	1	.080
13.3	48	31-0557	2	.100

R1-2 *

LEGEND - RED
BACKGROUND -WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.90	36	31-0523	1	.080
6.77	48	31-0522	2B	.100
10.83	60	31-0528	2B	.100

R1-3 *

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	8X6	31-0508		.080

R2 - SERIES

R2-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-552	1	.080
20.00	48X60	31-552	2	.100

R2-4a

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32.00	48X96	31-552	2B	.125

SPEED CHECKED BY RADAR

R3 - SERIES

R3-1

31-1604 OVERHEAD MTD
LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1604		.00
6.25	30X30	31-1617	1	.00
5.00	30X24	31-1618		.00
9.00	36X36	31-1627	2	.00
7.50	36X30	31-1628		.00

R3-2

31-1603 OVERHEAD MTD
LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1603		.00
6.25	30X30	31-1619	1	.00
5.00	30X24	31-1620		.00
9.00	36X36	31-1629	2	.00
7.50	36X30	31-1630		.00

R3-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1648	1	.00
9.00	36X36	31-1647	1	.00

R3-4

LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1622	1	.00
9.00	36X36	31-1632	1	.00

R3-5

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-0135L	1	.080
4.00	24X24	31-0138R	1	.080
7.50	30X36	31-0183L	1	.080
7.50	30X36	31-0184R	1	.080

R3-6

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0157L	1	.080
7.50	30X36	31-0158R	1	.080

R3-7L / R3-7R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0117L	1	.080
6.25	30X30	31-0118R	1	.080
9.00	36X36	31-0120L	1	.080
9.00	36X36	31-0123R	1	.080

R3-48

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0262L	1	.080
6.25	30X30	31-0261R	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-0125	1	.080
6.25	30X30	31-0165	1	.080
7.50	30X36	31-0175	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31-0290	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0279	2	.100

31-0282 31-0283

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

31-0295 31-0219

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

31-0370 31-0371

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30		2	.100

R3-8b

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	31-0302	2	.100

31-0307 31-0371

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30		2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0334	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-0121L	2	.100
20.00	48X60	31-0122R	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-0124L	2	.100
20.00	48X60	31-0137R	2	.100

R4 - SERIES

R4-1

AREA (SQ. F)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.0	24X30	31-1502	1	.080

AREA (SQ. F)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.0	48X60	31-1504	2	.100

R4-3

AREA (SQ. F)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.0	24X30	31-1562	1	.080
20.0	48X60	31-1564	2	.100

R4-7

AREA (SQ. F)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.0	24X30	31-1526	1	.080
12.0	36X48	31-1536	2	.100
20.0	48X60	31-1546	2	.100

KEEP RIGHT EXCEPT TO PASS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	1-1574	2	.100

R5 - SERIES

R5-1 *

LEGEND - WHITE
BACKGROUND - WHITE
CIRCLE - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSS	ALUM. THK.
6.25	30X30	31-1119	1	.080
9.00	36X36	31-1120	1	.080
16.00	48X48	31-1121	2	.100

PROHIBITED PEDESTRIANS MOTOR BIKES MOTOR SCOOTERS BICYCLES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	36X24	31-1777	2	.080

R5-1 *

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSS	ALUM. THK.
6.00	36X24	31-1122	2	.080
8.75	42X30	31-1123	2	.100

EMERGENCY AND AUTHORIZED VEHICLES ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1790	1	.080
20.00	48X60	31-1792	2	.100

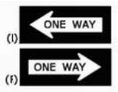
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSS	ALUM. THK.
27.00	54X72	31-1719	2	.125

R5-10c

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSS	ALUM. THK.
2.00	24X12	31-1776	1	.080

R6 - SERIES

R6-1



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	3X12	31-1188L	1	.080
3.00	3X12	31-1177R	1	.080
6.75	5X18	31-1189L	1	.100
6.75	5X18	31-1178R	1	.100

R7 - SERIES

(R) ⟹
(D) ⟺ (L)
(P) (NO ARROW)
LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	12X24	31-0628	1	.080

R7-1

(R) ⟹ (l)
(D) ⟺
LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0603	1	.080

R7-2

VARIABLE TIMES
(R) ⟹ (l)
(D) ⟺
LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0608	1	.080

R8 - SERIES

R8-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
13.50	54X36	31-0667	2	.30

R9 - SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
27.50	66X60	31-1733	2B	.125

R10 - SERIES

R10-6

31-0801 31-0802

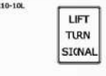
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	24X36		1	.080

OVERHEAD MOUNTED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	31-817		.080
4.00	24X24	31-823		.080
9.00	36X36	31-816		.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0847	1	.080
20.00	48X60	31-0849	2	.100

R10-10L



AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0803	1	.080
12.00	36X48	31-0804	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	31-841	1	.080
5.00	24X24	31-842	1	.080

R10-11a

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0806	1	.080
12.00	36X48	31-0807	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	31-818	1	.080
5.00	24X30	31-824	1	.080
7.50	30X36	31-830	1	.080
12.00	36X48	31-819	2	.100

R11 - SERIES

R11-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1915	1	.080
20.00	48X60	31-1918	2	.100

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. THE LEGEND "OS.T.A." SHALL APPEAR ON ALL R- SERES SIGNS EXCEPT WHEN SUFFIXED VITH THE LETTER "Z".
2. FOR SPECIFIC SGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
3. POSTS - SEE TYP. SHEET (SHT #9) - "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
4. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
5. FOR OVERHEAD MOUNTED SIGNS, SEE TYPICAL SIGNAL SHEET - "MISC. TRAFFIC SIGNAL INSTALLATION DETAILS."
6. SIGNS SHALL BI FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
7. BACKGROUND SHEETING SHALL BE TYPE III RETROREFLECTIVE SHEETING, EXCEPT NOTED BY *.

COLORS:

R-SERIES
BACKGROUND - WHITE (SILVER) - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL COLORS SHALL BE RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.
* SIGNS TO BE "BRIGHT WIDE ANGLE RETROREFLECTIVE SHEETING".

REV.	DATE	REVISION DESCRIPTION
3	6-20-12	REVISED NOTE #1 TO REFERENCE "O.S.T.A."
2	6-20-05	INCLUDED SIGNS TO MEET 2009 MUTCD REQUIREMENTS.
1	1-20-05	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNED/DRAFTER: D. K. SWINBURNE
CHECKED BY: L.N. CONROY
Plotted: 4/30/2015

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_GD.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: SIGN FACE SHEET ALUMINUM R-SERIES SIGNS TYPICAL DETAILS

PROJECT NO. 16-98
DRAWING NO. GS-1
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 32 OF 52

DRAWING NO. UTL-B32 SHEET NO. 03.295

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

S - SERIES

S1-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.75	36	✱41-2112	1	.080
12.00	48	✱41-2113	2	.100

W1 - SERIES

W1-1L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4D6	1	.080
9.00	36	41-4D1	1	.080
16.00	48	41-4D6	2	.100

W1-1R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4005	1	.80
9.00	36	41-4160	1	.80
16.00	48	41-4055	2	.20

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4141	1	.080
16.00	48	41-4062	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4140	1	.080
16.00	48	41-4061	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4D8	1	.080
9.00	36	41-4D4	1	.080
16.00	48	41-4D8	2	.100

W1-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4027	1	.80
9.00	36	41-4083	1	.80
16.00	48	41-4067	2	.20

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.0	36	41-4139	1	.080
16.00	48	41-4088	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.0	36	41-4040	1	.080
16.00	48	41-4087	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-418	1	.080
16.00	48	41-4D8	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.0	36	41-4127	1	.80
16.00	48	41-4057	2	.20

W1-6 (LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.00	48X24	41-4222	2	.100
12.50	60X30	41-4224	2	.100

W1-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.00	48X24	41-4207	2	.100
12.50	60X30	41-4208	2	.100

W1-10L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-40S	1	.080
16.00	48	41-400	2	.100

W1-10R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4043	1	.80
16.00	48	41-4089	2	.20

W1-8 (LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	41-4250	1	.080
5.00	24X30	41-4203	1	.080
7.50	30X36	41-4204	1	.080
12.00	36X48	41-4251	2	.080

W2 - SERIES

W2-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O. #	POSTS	ALUM. THK.
6.25	30	41-226	1	.080
9.00	36	41-236	1	.080
16.00	48	41-246	2	.100

W2-2 (LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O. #	POSTS	ALUM. THK.
6.25	30	41-225	1	.080
9.00	36	41-235	1	.080
16.00	48	41-245	2	.100

W2-3 (L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O. #	POSTS	ALUM. THK.
6.25	30	41-220L	1	.080
6.25	30	41-219R	1	.080
9.00	36	41-252L	1	.080
16.00	48	41-244L	2	.100
16.00	48	41-243R	2	.100

W2-4

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O. #	POSTS	ALUM. THK.
6.25	30	41-217	1	.080
9.00	36	41-255	1	.080
16.00	48	41-247	2	.100

W3 - SERIES

W3-1 OCTAGON - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0501	1	.080
9.00	36	41-0502	1	.080
16.00	48	41-0503	2	.100

W3-2 TRIANGLE - RED & WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0504	1	.080
9.00	36	41-0505	2	.100
16.00	48	41-0506	2	.100

W3-3 SYMBOL & LEGEND - BLACK
BACKGROUND - YELLOW
TOP CIRCLE - RED
BOTTOM CIRCLE - GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0835	1	.080
9.00	36	41-0836	1	.080
16.00	48	41-0848	2	.100
24.00	60	41-0860	2	.125

WHEN FLASHING STOP AHEAD

W/ FLASHERS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
25.00	60	41-0534	28	.125

W4 - SERIES

W4-1L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4448	1	.080
16.00	48	41-4452	2	.100

W4-R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.0	36	41-4449	1	.080
16.0	48	41-4459	2	.100

W4-2L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4442	1	.080
16.00	48	41-4446	2	.100

W4-R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.0	36	41-4441	1	.080
16.0	48	41-4447	2	.100

W4-3L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4433	1	.080
9.00	36	41-4468	1	.080
16.00	48	41-4435	2	.100

W4-R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.2	30	41-4432	1	.080
9.0	36	41-4470	1	.080
16.0	48	41-4434	2	.100

W5 - SERIES

W5-1 ROAD NARROWS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	1-4402	1	.080
16.00	48	1-4404	2	.100

W17-1 SPEED HUMP

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	1-4591	1	.080

THIS SIGN ADDED FOR THIS PROJECT ONLY

W6 - SERIES

W6-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSS	ALUM. THK.
6.25	30	41-4333	1	.080
9.00	36	41-4335	1	.080
16.00	48	41-4330	2	.100

W6-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSS	ALUM. THK.
6.25	30	41-4329	1	.080
9.00	36	41-4331	1	.080
16.00	48	41-4331	2	.100

W6-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSS	ALUM. THK.
9.00	36	41-4329	1	.080
16.00	48	41-4331	2	.100

W7 - SERIES

W7-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4506	1	.080
9.00	36	41-4530	1	.080
16.00	48	41-4508	2	.100

W8 - SERIES

W8-5

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4519	1	.080
9.00	36	41-4520	1	.080
16.00	48	41-4521	2	.100

W9 - SERIES

W9-1 LEFT LANE ENDS (L) RIGHT LANE ENDS (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-444L	1	.080
9.00	36	41-444R	1	.080
16.00	48	41-444L	2	.100
16.00	48	41-444R	2	.100

W9-2 LANE ENDS MERGE LEFT (L) LANE ENDS MERGE RIGHT (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-445L	1	.080
9.00	36	41-445R	1	.080
16.00	48	41-445L	2	.100
16.00	48	41-445R	2	.100

SLOW VEHICLE LANE ENDS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
22.00	66X48	41-150	2	.100

W10 - SERIES

W10-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.07	36	41-2201	1	.80

W11 - SERIES

W11-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4810	1	.080
9.00	36	41-4811	1	.080
16.00	48	41-4812	2	.100

W11-8

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4680	1	.080
9.00	36	41-4681	1	.080
16.00	48	41-4692	2	.100

W12 - SERIES

W12-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4213	1	.080
9.00	36	41-4215	1	.080
16.00	48	41-4214	2	.100

W12-2 00'-0"

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4706	1	.080
16.00	48	41-4708	2	.100

RIGHT LANE

(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30	41-4728		.080

LEFT LANE

(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30	41-729		.080

W13 - SERIES

W13-1 00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	41-5568	1	.080
4.00	24X24	41-5569	1	.080
6.25	30X30	41-5573	1	.080
16.00	48X48	41-5572	2	.100

W13-2 EXIT 00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	41-5596	2	.100

W13-3 RAMP 00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	41-5598	28	.100

W16 - SERIES

W16-2aP 41-6130 000 FT / 41-6132 000 FT / 41-6134 0000 FT

(SUBPLATE) USE AT ADVANCE SIGN LOCATION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6130		.080
3.75	30X18	41-6132		.080
7.00	42X24	41-6134		.100
2.0	24X12	✱41-6140		.080
3.75	30X18	✱41-6142		.080

W16-7PL

(SUBLATE) USE WITH S1-1 & W11-2 AT CROSSWALK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.0	24X12	41-2607		.080
3.7	30X18	41-2608		.080
2.0	24X12	✱41-2617		.080
3.7	30X18	✱41-2618		.080

W16-7PR

(SUBPLATE) USE WITH S1-1 & W11-2 AT CROSSWALK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	1-2609		.080
3.75	30X18	1-2610		.080
2.00	24X12	✱41-2619		.080
3.75	30X18	✱41-2620		.080

W16-9P AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSS	ALUM. THK.
2.00	24X12	41-6125	1	.080
3.75	30X18	41-6112	1	.080
6.00	36X24	41-6116	1	.080
12.00	48X36	41-6115	2	.100

W16-9P AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	✱41-6126	1	.080
3.75	30X18	✱41-6137	1	.080
6.00	36X24	✱41-6138	1	.080
12.00	48X36	✱41-6139	2	.100

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
2. POSTS - SEE STANDARD SHEET TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

S & W-SERIES
BACKGROUND - YELLOW - EXCEPT AS NOTED.
✱ BACKGROUND - FLUORESCENT YELLOW GREEN
LEGEND - BLACK - EXCEPT AS NOTED.
ALL COLORS SHALL BE TYPE III RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.

REV.	DAT:	REVISION DESCRIPTION
1	11-20-3	UPDATED PER MUTCD.
1	1-20-0	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	105	72"	1800
18"	450	48"	120	78"	1950
24"	600	54"	135	84"	2100
30"	750	60"	150	90"	2250
36"	900	66"	165	96"	2400

DESIGNER/DRAFTER: D.K. SWINBURNE
CHECKED BY: L.N. CONROY
Plotted: 4/30/2015

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDEWATER

DRAWING TITLE: SIGN FACE SHEET ALUMINUM (Y) S&W SERIES SIGNS TYPICAL DETAILS

PROJECT NO. 16-98
DRAWING NO. GS-2
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

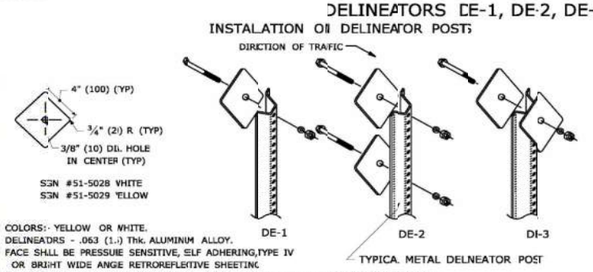
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 33 OF 52

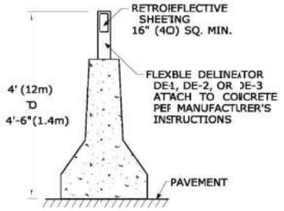
DRAWING NO. UTL-B33 SHEET NO. 03.296

DELINEATORS DE-1, DE-2, DE-3

INSTALATION OF DELINEATOR POSTS



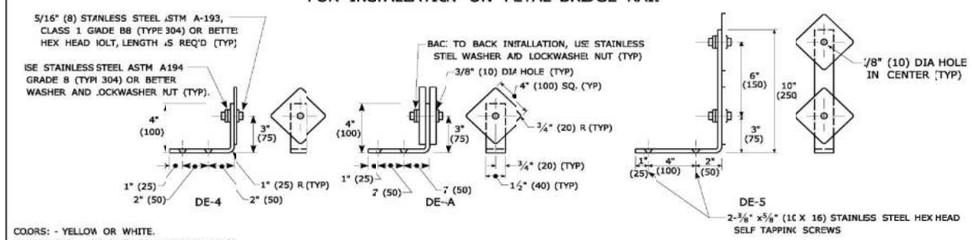
INSTALLATION ON PERMANENT CONCRETE BARRIER, BRIDGE PARAPETS & RETAINING WALLS



COLORS: - YELLOW OR WHITE.
DELINEATORS - .063 (1.6) Thk. ALUMINUM ALLOY.
FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV OR BRIGHT WIDE ANGLE RETROREFLECTIVE SHEETING.
DELINEATORS SHALL BE FASTENED WITH 5/16" (8) STAINLESS STEEL ASTM A-193 CLASS 1, GRADE 18 (TYPE 304) OR BETTER HEX HEAD BOLT (LENGTH AS REQUIRED), WASHER AND FIBER INSERT SELF LOCKING NUT, ON STANDARD METAL DELINEATOR POST.

DELINEATORS DE-1, DE-2, DE-3 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

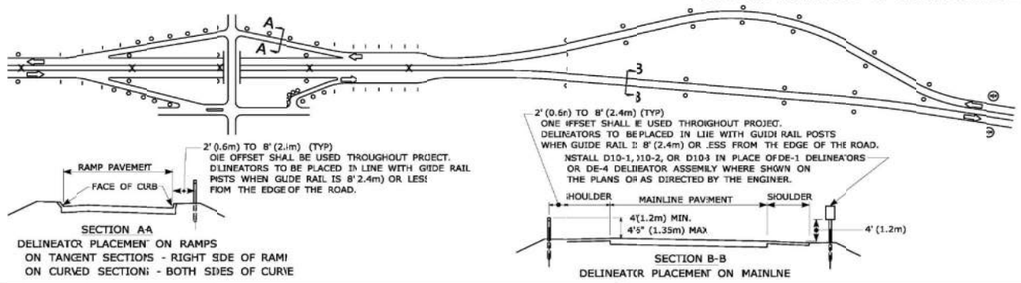
DELINEATORS DE-4, DE-4A, DE-5 FOR INSTALLATION ON METAL BRIDGE RAIL



COLORS: - YELLOW OR WHITE.
DELINEATORS - .03 (1.6) Thk. ALUMINUM ALLOY
BRACKET - .125 (3.2) Thk. ALUMINUM ALLOY, AND SHALL CONFORM TO SPECIFICATION M.18.0-03 BRIDGE RAIL MOUNTING BRACKETS.
FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV OR BRIGHT WIDE ANGLE RETROREFLECTIVE SHEETING.
USE STAINLESS STEEL WASHERS ON FACE OF DELINEATORS, 5/8" (16) O.D. X 3/8" (10) I.D. X .032 (0.8) Thk. (TYPICAL).

DELINEATORS TYPE DE-4, DE-4A, AND DE-5 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

TYPICAL MAINLINE & INTERCHANGE DELINEATION



SECTION A-A
DELINEATOR PLACEMENT ON RAMPS
ON TANGENT SECTIONS - RIGHT SIDE OF RAMP
ON CURVED SECTIONS - BOTH SIDES OF CURVE

SECTION B-B
DELINEATOR PLACEMENT ON MAINLINE

DELINEATOR SPACING NOTES:

1) AT LOCATIONS WHERE THE MEDIAN WIDTH (BETWEEN SHOULDERS) IS 12' (3.6m) OR LESS, AND MEDIAN BEAM RAIL IS PRESENT, TYPE DE-3 DELINEATORS SHALL BE MOUNTED WITHIN THE MEDIAN BEAM RAIL.
2) SPACING ON MAINLINE EXPRESSWAY TANGENTS SHALL BE 400' (120m.
3) SPACING ON MAINLINE EXPRESSWAY CURVES SHALL BE AS SPECIFIED IN TABLE 3D1 OF THE MUTCD.
4) ON ACCELERATION AND DECELERATION LANES AND ON-RAMP TANGENT SECTIONS DELINEATOR SPACING SHALL BE 100' (30m)
5) ON CURVED PORTIONS OF RAMPS, DELINEATOR SPACING SHALL BE IN ACCORDANCE WITH TABLE 3D-1 OF THE MUTCD, BUT NOT TO EXCEED 100' (30m).

LEGEND:

- o DE-1 DELINEATORS OR DE-4 DELINEATOR ASSEMBLY
- ' DE-2 DELINEATORS OR DE-5 DELINEATOR ASSEMBLY
- X DE-3 DELINEATORS ASSEMBLY OR DE-4A DELINEATOR
- (D) D10-1, 2 OR 3 ASSEMBLY TO BE INSTALLED WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

COLOR APPLICATION, FOR DE-1 THRU DE-1

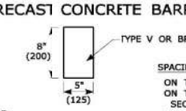
LEFT SIDE OF ALL ROADWAYS AND RAMPS - YELLOW
RIGHT SIDE OF ALL ROADWAYS AND RAMPS - WHITE

MUTCD TABLE 3D-1
APPROXIMATE SPACING FOR DELINEATORS ON HORIZONTAL CURVES

RADIUS (R) OF CURVE (feet)	APPROXIMATE SPACING (S) ON CURVE (feet)	RADIUS (R) OF CURVE (m)	APPROXIMATE SPACING (S) ON CURVE (m)
50	20	15	6
115	25	35	8
180	35	55	11
250	40	75	13
300	50	95	15
400	55	125	18
500	65	155	20
600	70	185	22
700	75	215	24
800	80	245	26
900	85	275	27
1,000	90	305	29

DISTANCE IN FEET (m) WERE ROUNDED TO THE NEAREST 5 FEET (1.5m)
SPACING FOR SPECIFIC RADII MAY BE INTERPOLATED FROM TABLE. THE MINIMUM SPACING SHOULD BE 20 FT (6.1m) THE SPACING ON CURVES SHOULD NOT EXCEED 300 FT (90 m). IN ADVANCE OF OR BEYOND A CURVE AND PROCEEDING AWAY FROM THE END OF THE CURVE, THE SPACING OF THE FIRST DELINEATOR IS 2S. THE SECOND IS S, AND THE THIRD 6S BUT NOT TO EXCEED 300 FT (90m)
S REFERS TO THE DELINEATOR SPACING FOR SPECIFIC RADI COMPUTED FROM THE FORMULA: S=3 √R-50 (S=1.7 √R-5).

DELINEATORS DE-7, DE-7A, DE-7B, DE-7C FOR INSTALLATION ON TEMPORARY PRECAST CONCRETE BARRIER CURB AND TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)



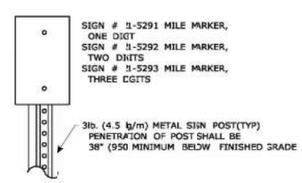
DE-7 ONE WAY WHITE
DE-7A ONE WAY YELLOW
DE-7B TWO WAY YELLOW
DE-7C WHITE/YELLOW BACK TO BACK
TEMPORARY PRECAST CONCRETE BARRIER DELINATORS ARE TO BE FABRICATED OF ALUMINUM, STEEL, PLASTIC, OR OF A MATERIAL APPROVED BY THE ENGINEER AND MOUNTED IN THE CENTER OF EACH SECTION OF TEMPORARY BARRIER AS REQUIRED AND PER MANUFACTURERS INSTRUCTIONS.

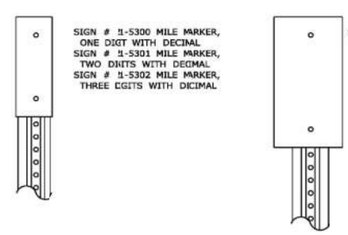
SPACING FOR TEMPORARY BARRIER CURB DELINEATORS:

ON THE LEADING TAPERED SECTION - EVERY 20' (62m),
ON THE FIRST 100' (0m) OF THE PARALLEL SECTION - EVERY 2' (6.2m),
ON THE REMAINING LENGTH - EVERY 100' (30m), MINIMUM OF 2 IF LESS THAN 100' (30m),
ALTERNATING ONE WAY TRAFFIC - EVERY 20' (6.2m,
ALL OTHER ROADWAYS SHALL BE DELINEATED IN ACCORDANCE WITH MUTCD.

DELINEATORS DE-7, DE-7A, DE-7B, DE-7C TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

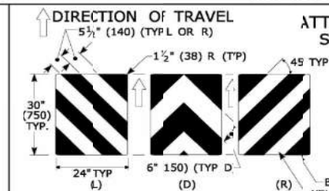
DELINEATORS D10-1, D10-2, D10-3 MILE POST MARKER ASSEMBLY





MILE POST MARKER ASSEMBLY TO BE PAID FOR UNDER SECTION 12.08 SIGN FACE SHEET ALUMINUM

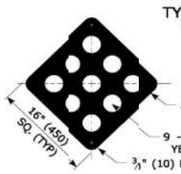
DIRECTION OF TRAVEL ATTENUATOR REFLECTOR SIGN # 50-5032



THIS SHEETING TO BE INSTALLED ON THE NOSE OF THE IMPACT ATTENUATOR WITH ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
THE SHEETING SHALL COVER THE NOSE OF THE IMPACT ATTENUATOR.
ON A CURVED NOSE, THE WIDTH OF THE SHEETING SHALL EXTEND 1" (25) BEYOND THE POINT OF CURVATURE ON EACH SIDE OF THE NOSE.
THE HEIGHT AND WIDTH OF THE SHEETING VARIES DEPENDING ON THE SIZE OF THE NOSE OF THE IMPACT ATTENUATOR.

ATTENUATOR REFLECTOR TO BE PAID FOR UNDER SECTION 18.0 IMPACT ATTENUATOR

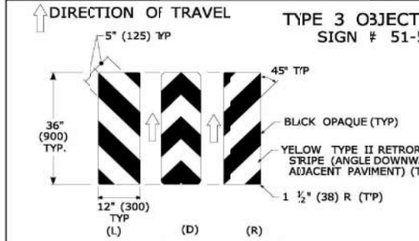
DELINEATOR DE-9 TYPE I OBJECT MARKER SIGN # 51-5031



WHEN ERECTED AS A SEPARATE INSTALLATION A 3lb. (4.5kg/m) METAL SIGN POST SHALL BE USED. THE BOTTOM OF THE DE-1 SHALL BE 4' (1.2m) ABOVE THE ADJACENT PAVEMENT AND THE PENETRATION OF THE POST SHALL BE 38" (950 mm) MINIMUM BELOW THE FINISHED GRADE.

DELINEATORS DE-9 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS

DIRECTION OF TRAVEL TYPE 3 OBJECT MARKERS SIGN # 51-5023



SIGN #51-5023 MARKER MOUNTED ON 3lb. (4.5kg/m) METAL SIGN POST
BOTTOM OF SIGN #51-5023 TO BE 4' (1.2m) ABOVE ADJACENT EDGE OF PAVEMENT
FINAL LOCATIONS OF SIGN #51-5023 MARKERS WILL BE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

TYPE 3 OBJECT MARKER TO BE PAID FOR UNDER SECTION 12.08 SIGN FACE SHEET ALUMINUM

REV.	DATE	REVISION DESCRIPTION
2	2-201	MINOR REVISIONS.
1	1-200	INCLUDED DETAILS IN D101, D10-2, D10- DELINEATORS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/22/2011

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm).
METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFIC_STD.dgn Model: TR-1205_01

SUBMITTED BY: NAME/DATE/TIME:
APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE
DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS

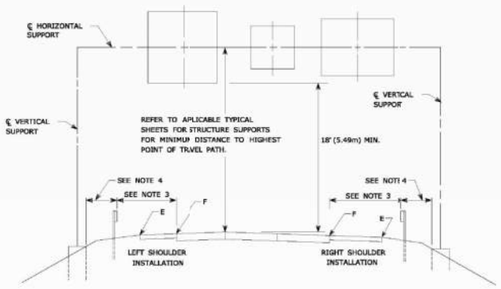
STANDARD SHEET NO.: TR-1205_01

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

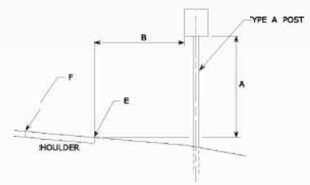
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg
CONFIDENTIAL/PROPRIETARY SHEET: 34 OF 52



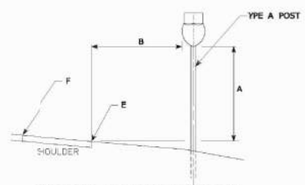
GUIDE RAIL PLACEMENT FOR SIGN SUPPORTS

NOTES:

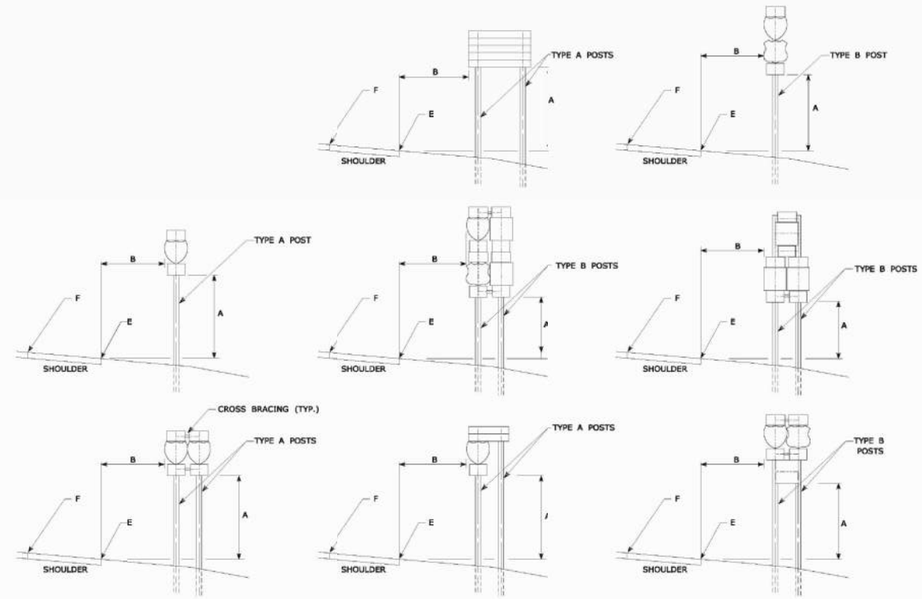
1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL
2) BARRIER SYSTEM IS REQUIRED FOR BOTH SIDES OF MEDIAN SUPPORTS IN NARROW MEDIANS.
3) AT LOCATIONS WHERE IMPAT PROTECTION IS NOT REQUIRED FOR ROADSIDE ELEMENTS, FACE OF GUIDE RAIL SHALL BE PLACED 30' (9.1m) FROM EDGE O' TRAVELWAY.
4) OFFSETS OF FOUNDATIONS ROM BARRIER SYSTEMS SHALL BE AS SHOWN ELSEWHERE ON THE CONTRACT PLANS.
5) ALL SIGNS ARE TO BE HORIZONTAL, REGARDLESS OF CAMBER IN SUPPORT.



YPICAL REGULATORY & WARNING SIGN PLACEMENT



YPICAL CONFIRMATORY ROUTE MARKER PLACEMENT



TYPICAL SIGN PLACEMENT AND POST SELECTION

NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUTVERTICALLY
2 POST ASSEMBLIES SHALL BE PROVIDED WITH 3" X ¼" (75 X 6) (ALVANIZED STEEL BAR CROSS BRACING.
REFER TO TRAFFIC TYPICAL SHEET "TYPICAL METAL SIGN POSTS ANI SIGN MOUNTING DETAILS" FOR SIGN POSTS.

DIM."A"	DIM."B" 1	ASSEMBLY LOCATDN
7' (2.1m)	6' (1.8m) 12' (3.6m) 2	RURAL DISTRICTS & EXPRESSWAYS
7' (2.1m)	2' (0.6m)	BUSINESS & RESIDENTIL DISTRICTS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
8'-6" (2.6m)	1' (0.3m)	SIDEWALKS 3

1. OR AS IIRECTED BY THE ENGINEER
2. 6' FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6' WIDE
   12' FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LES THAN 6' WIDE.
3. A CLEAR PATH OF NOT LESS THAN 3 FT (0.9m) SHALL E PROVIDED IN SIDEWALK AREAS.

"E" DENOTES EDGE OF SHOULDER OR FACE OF CURB
"F" DENOTES EDGE OF TRAVELWAY

FOR MAXIMUM EFFECTIVENESS AND TO EIMINATE OR MINIMIZE GLARE, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOW:

ON A TANGENT SECTION, POSITION THE SGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 93° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES:

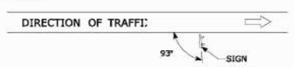


DIAGRAM "A"

ON A HORIZONTAL CURVE SECTION, POSITON THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS A' AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POIN' AT WHICH THE SIGN SHALL BE READ.

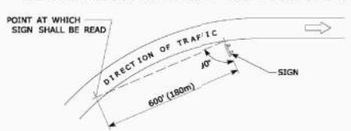
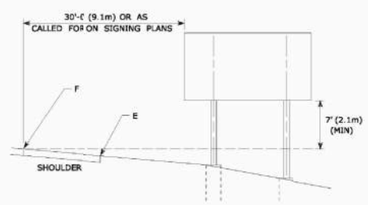


DIAGRAM "B"

SIGN ORIENTATION DETAILS



TYPICAL PLACEMENT OF SIDE MOUNTID SIGNS ON STRUCTURAI STEEL BREAKAWAY SIGN SUPPORTS

NOTES:

1) MIN. VERTIAL CLEARANCE ABOVE SIDEWALKS SHALL BE 8'-5" (2.6m).
2) WHERE GUDE RAIL IS USED, THE OFFSET TO THE NEAR EGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLAS.
3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET O THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' (1.8m) MIN. FROM PINT "E".
4) IF 30'-0" (.1m) MIN. CANNOT BE MET, PLEASE CONTACT TH ENGINEER.

REV.	DATE	REVISION DESCRIPTION
1	2-20-11	MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/16/2011

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: R-1208_01

SUBMITTED BY: NAME/DATE/TIME:
APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE
SIGN SUPPORT & SIGN PLACEMENT DETAILS, GORE EXIT SIGN

STANDARD SHEET NO.:
TR-1208_01

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

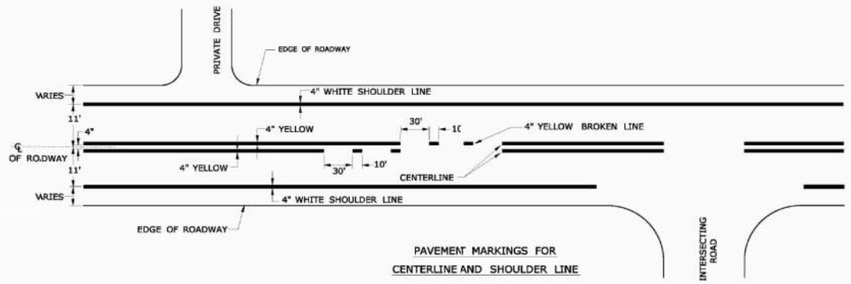
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

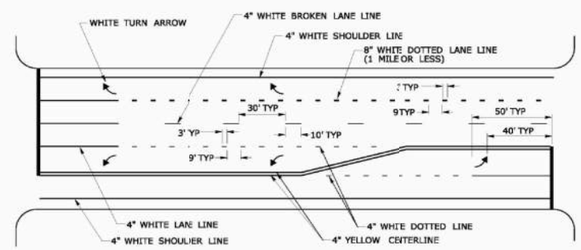
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

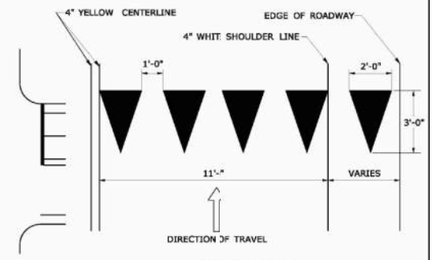
WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



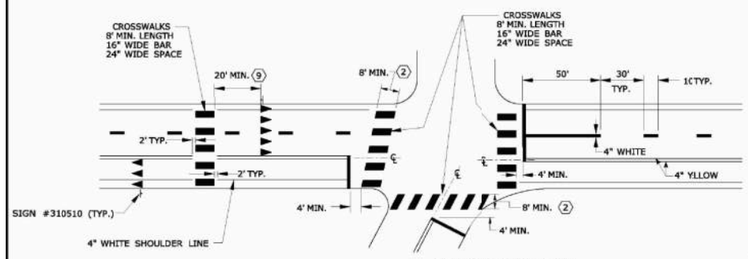
PAVEMENT MARKINGS FOR
CENTERLINE AND SHOULDER LINE



PAVEMENT MARKINGS FOR
TURNING LANES



YIELD LINE DETAIL
(WHITE)



PAVEMENT MARKINGS FOR
STOP BARS, YIELD LINES, AND CROSSWALKS

NOTES:

STOP BARS AND YIELD LINES

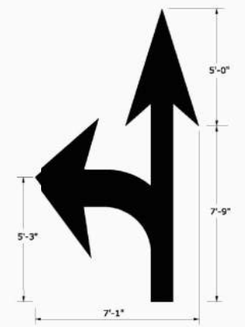
1. STOP BARS AND YIELD LINES SHALL BE WHITE.
2. STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
3. STOP BARS TO BE MARKED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 0' TO THE CENTERLINE OF THE ROADWAY.
4. IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
5. THE STOP BAR SHOULD BE PLACED IN LINE WITH THE STOP SIGN. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
6. FOR STOP BARS AT RAMPS SEE DETAILS "O" & "P" AND NOTES ON TRAFIC STANDARD SHEET TR-1210..02 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
7. YIELD LINES SHOULD BE INSTALLED FROM THE CENTERLINE TO THE CUB LINE/EDGE OF ROAD AND SHOULD BE PLACED 0' TO THE CENTERLINE OF THE ROADWAY.
8. FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
9. AT MID-BLOCK CROSSWALK ONLY, YIELD LINES SHOULD BE INSTALLED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE, OR AS DIRECTED BY THE ENGINEER
10. THE YIELD LINE SHOULD BE PLACED IN LINE WITH A YIELD SIGN. HOVEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.

CROSSWALKS

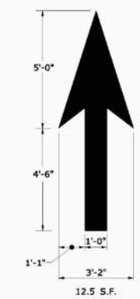
1. CROSSWALK MARKINGS SHALL BE WHITE.
2. AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALEL TO ℄ AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
3. BARS SHOULD BE NO CLOSER THAN 1' FROM CURB LINE/EDGE OF ROAD
4. ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
5. DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG ACH EDGE.
6. 24" WIDE SPACE TO BE CEITERED ON YELLOW CENTERLINE.

RAILROAD GRADE CROSSING

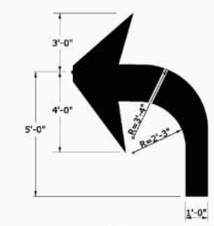
1. RAILROAD MARKINGS SHALL BE WHITE.
2. ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.



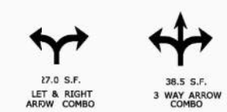
REFER TO ADJACENT VIEWS FOR DIMENSIONING
27.0 S.F.



12.5 S.F.



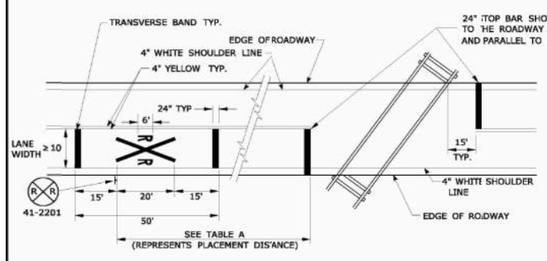
15.5 S.F.

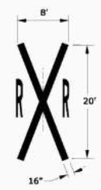


27.0 S.F.
LEFT & RIGHT ARROW COMBO

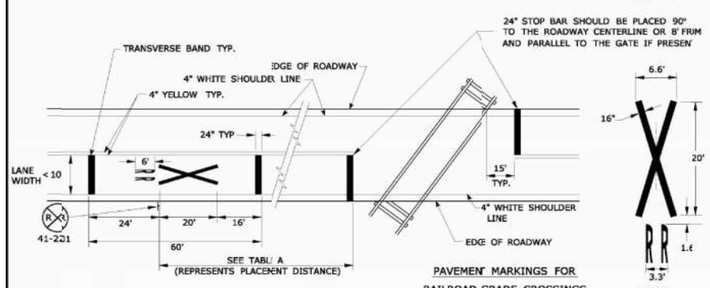
38.5 S.F.
3 WAY ARROW COMBO

PAVEMENT ARROW DETAILS
(WHITE)
AROWS SHALL BE CENTERED IN TRAVEL LANE





67.5 S.F.



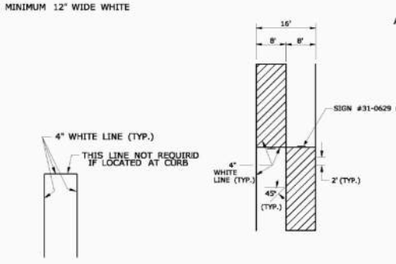
67.5 S.F.

5.75 S.F.

TABLE A

POSTED OR 85 PERCENTILE SPEED M.P.H.	MINIMUM DISTANCE FT.
20	100
25	100
30	100
35	100
40	125
45	175
50	250
55	325
60	400
65	475

PAVEMENT MARKINGS FOR
RAILROAD GRADE CROSSINGS



STANDARD
PARKING STALL

(PIGGY BACK STYLE)

(SIDE BY SIDE STYLE)
(SHARED AISLE)

(ANGLED SIDE BY SIDE STYLE)
(SHARED AISLE)

PARKING STALLS FOR HANDICAPPED

NOTES:
PAVEMENT MARKING

1. FOR PAVEMENT MARKINGS ON A CLIMBING LANE SEE DETAIL "L" ON TRAFFIC STANDARD SHEET TR-1210..02 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
2. AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
3. FOR PAVEMENT MARKING LINES, STOP BARS AND ARROWS AT RAMPS SEE DETAILS "O" & "P" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210..02 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
4. RIGHT TURN PAVEMENT MARKINGS ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.
5. SHARED AISLES MAY NOT BE USED WHERE CONNECTICUT BUILDING CODE GOVERNS.
6. LANE WIDTHS TO BE 11' UNLESS OTHERWISE NOTED.

REV.	DATE	REVISION DESCRIPTION
3	10-2-14	ADDED YIELD LINE DETAIL AND NOTES. REVISED NOTES FOR STOP BARS AND CROSSWALKS. REVISED MARKINGS FOR STOP BARS AND CROSSWALKS. REVISED STANDARD LANE WIDTH. REVISED MARKINGS FOR GRADE CROSSINGS AND TABLE A.
2	12-2-13	REMOVED PAVEMENT MARKING ARROWS ON RAMPS NOTES AND ADDED NEW NOTE #3 REFERRING TO SHEET TR-1210_02.
1	2-2-01	ADDED PAVEMENT MARKINGS FOR TURNING LANES.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/9/2014

DIMENSIONS ARE IN ENGLISH (")

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.DGN Model: R-1210.03

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE

SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS

STANDARD SHEET NO.:

TR-1210_03

2COM GROUP LLC.

102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

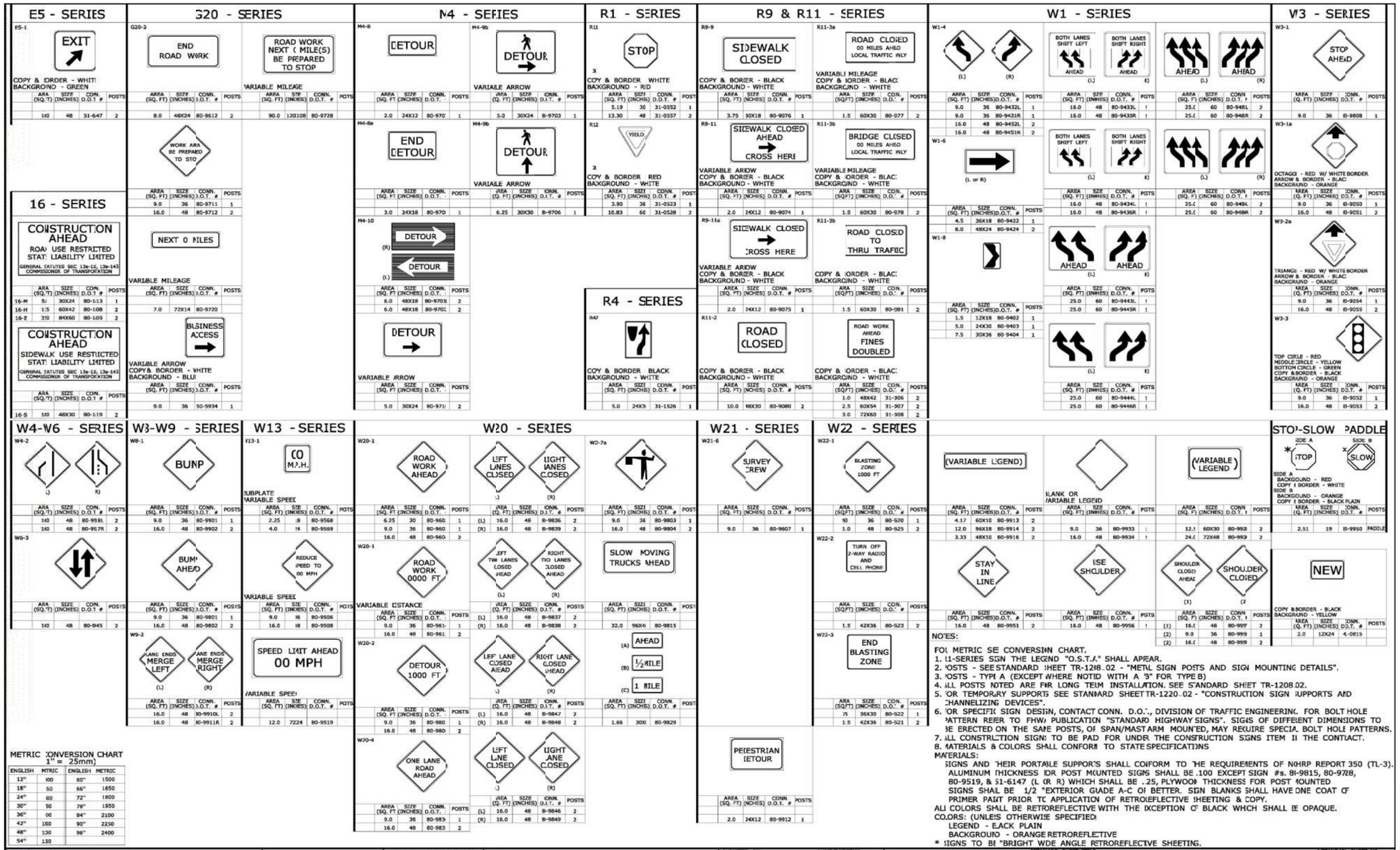
Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 36 OF 52

DRAWING NO. UTL-B36 SHEET NO. 03.299

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



NOTES:

FOR METRIC SEE CONVERSION CHART.
1. ALL-SERIES SIGN THE LEGEND "O.S.T.A." SHALL APPEAR.
2. POSTS - SEE STANDARD SHEET TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
3. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
4. ALL POSTS NOTED ARE FOR LONG TERM INSTALLATION. SEE STANDARD SHEET TR-1208.02.
5. FOR TEMPORARY SUPPORTS SEE STANDARD SHEET TR-1220.02 - "CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES".
6. FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
7. ALL CONSTRUCTION SIGNS TO BE PAID FOR UNDER THE CONSTRUCTION SIGNS ITEM IN THE CONTRACT.
8. MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS

MATERIALS:
SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3).
ALUMINUM THICKNESS FOR POST MOUNTED SIGNS SHALL BE .100 EXCEPT SIGN #s. 81-9815, 80-9728, 80-9519, & 51-6147 (L OR R) WHICH SHALL BE .125, PLYWOOD THICKNESS FOR POST MOUNTED SIGNS SHALL BE 1/2 "EXTERIOR GRADE A-C OR BETTER. SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF RETROREFLECTIVE SHEETING & COPY.
ALL COLORS SHALL BE RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.
COLORS: (UNLESS OTHERWISE SPECIFIED)
LEGEND - BLACK PLAIN
BACKGROUND - ORANGE RETROREFLECTIVE
* SIGNS TO BE "BRIGHT WIDE ANGLE RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION
4	6-2012	REVISED NOTE #1 TO REFRENCE "O.S.T.A"
3	4-2012	REVISED NEW SIGNAL SIGN(S) TO CONFORM TO 2009 MUTCD.
2	2-2011	MINOR REVISIONS.
1	3-2000	REMOVED OBSOLETE SIGN (50-5925, 50-935).

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 7/20/2012

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm).
METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFIC_STD.dgn Model: TR-1220_01

SUBMITTED BY: NAME/DATE/TIME:
APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS

STANDARD SHEET NO.: TR-1220_01

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

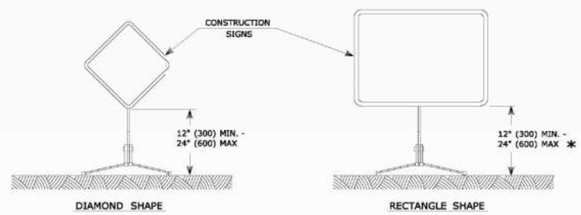
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 37 OF 52

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

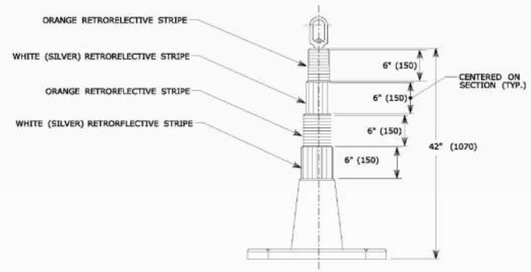


CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

1. SIGNS AND THEIR PORTABLE SUPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. MOUNTING HEIGHT OF SIGNS SHAL BE A MINIMUM OF 12" (300) AND A MAXIMUM OF 24" (600). SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OF AS DIRECTED BY THE ENGINEER.
3. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
4. PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 150 (TL-3).

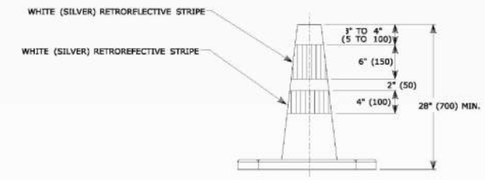
* FOR EXIT SIGNS, USE MIN. 72" (180).



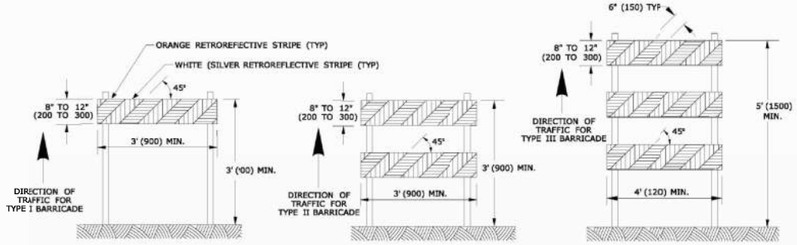
42" (1m) TRAFFIC CONE

NOTES:

1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.



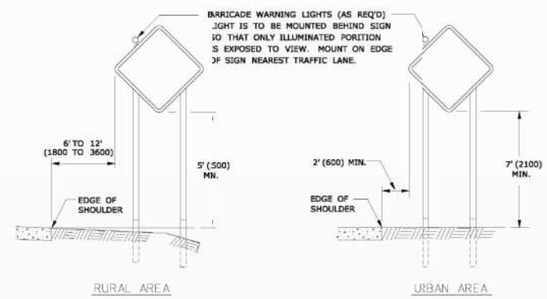
TRAFFIC CONE



CONSTRUCTION BARRICADES

NOTES:

1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" (150) WIDE STRIPES SHALL BE USED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. RAILS FOR TYPE I AND TYPE II BARRICADES SHALL BE RETROREFLECTIVE ON BOTH SIDES. WHERE TRAFFIC PASSES ONLY IN ONE DIRECTION OF TRAVEL, ONLY THE SIDE FACING TRAFFIC SHALL BE RETROREFECTIVE.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
6. SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.

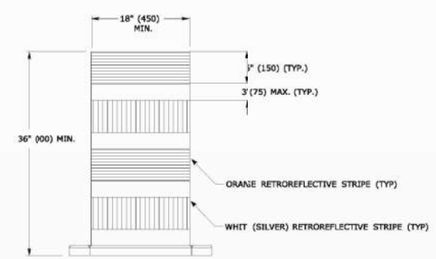


PLACEMENT OF CONSTRUCTION SIGNS TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES

SEE TYPICAL SHEETS:
"TYPICAL SIGN SUPPORT AND SIGN PLACEMENT DETAILS-GORE EXIT SIGN"
"TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS"



TRAFFIC DRUM FRONT VIEW

NOTES:

1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALLBE ORANGE.

REV.	DATE	REVISION DESCRIPTION
1	2-2011	MINOR REVISIONS.

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Plotted Date: 2/16/2011

DIMENSIONS ARE IN ENGLISH ("") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: R-1220_02

SUBMITTED BY: NAME/DATE/TIME:
APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE
CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

STANDARD SHEET NO.:
TR-1220_02

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

Connecticut DOT Boring Report — Hole No. RW-102-6

Driller: A. Conant	Town: Bridgewater	Hole No.: RW-102-6
Inspector: G. Arzt	Project No.: 0016-0098	Stat./Offset: 35+16/8' Lft
Engineer: R. Pion	Route No.: 133	Northing: 39912
Start Date: 4-4-13	Bridge No.:	Easting: 35135
Finish Date: 4-4-13		Surface Elevation: 287.6

Project Description: Roadway Realignment

Casing Size/Type: 4 inch IW | Sampler Type/Size: 1 3/8 in ID | Core Barrel Type: DT NQ

Hammer Wt.: Fa in. | Hammer Wt.: 140 Fall: 30in.

Groundwater Observation: @4 after 0 hours

Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes
S-1	4 4 4 6	24	16		PAVEMENT STRUCTURE / MISC. FILL	Brown c-f SAND, some c-f grav, trace silt
					GLACIAL TILL	
S-2	16 4 80	17	8			Gray brown f-c, and f-c gravel, lie silt
					BEDROCK	
C-1		60	53	82		Gray medium grained, laminated highly fractured slightly weathered strog schist Core times in min/ft: 2,3,3,3,3
C-2		57	60	76.6		Gray medium grained, laminated highly fractured slightly weathered strog schist Core times in min/ft: 3,4,4,4,3
						END OF BORING 15.5ft

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in: Earth: 5.5ft Rock: 9.33ft | No. of Soil Samples: 2 | No. of Core Runs: 2
NOTES: Pavement Structure Consists of 12 inches of bituminous pavement on 12 inches of subbase
Sheet 1 of 1 — SM-001-M REV. 1/02

Connecticut DOT Boring Report — Hole No. R-8

Driller: Jason Dorou	Town: Bridgewater	Hole No.: R-8
Inspector: Glenn L. Arzt	Project No.: 0016-0098	Stat./Offset: 141+9.5/2.7 ft Right
Engineer: Sara Ghatoe	Route No.: 133	Northing: 74053
Start Date: 9-4-15	Bridge No.: NA	Easting: 83488
Finish Date: 9-4-15		Surface Elevation: 31.2

Project Description: Safety Improvements on Route 133

Casing Size/Type: 4 inch HFJ | Sampler Type/Size: 2 inch SS | Core Barrel Type: NQ

Hammer Wt.: 140lb Fall: 30in | Hammer Wt.: 140lb Fall: 30in.

Groundwater Observations:

Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes
					PAVEMENT STRUCTURE / GLACIAL TILL	
S-1	7 11 11 6	24	12			Brown- C/F GRAVEL, some C/F Sand, trace Silt
S-2	50	1	1		BEDROCK	Gray- F/C SAND, trace F/C Gravel, trace Silt
C-1		60	56	66.6		Gray- medium grained, laminated bedded, moderately fractured, slightly weathered Schist Core Times (min/ft): 5.0, 7.0, 6.0, 6.0, 6
C-2		60	48	80		Gray- medium grained, laminated bedded, moderately fractured, slightly weathered Schist Core Times (min/ft): 5.5, 6.0, 6.0, 5.5, 7
						END OF BORING 18.6ft

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 5%

Total Penetration in: Earth: 8.6ft Rock: 10ft | No. of Soil Samples: 2 | No. of Core Runs:
NOTES: Pavement structure consists of 10 inch bituminous concrete with no discernable subbase.
Sheet 1 of 1 — M-001-M REV. 1/02

Connecticut DOT Boring Report — Hole No. R-9

Driller: Jason Dorou	Town: Bridgewater	Hole No.: R-9
Inspector: Glenn L. Arzt	Project No.: 0016-0098	Stat./Offset: 146+90.5/0.7ft Right
Engineer: Sara Ghatoe	Route No.: 133	Northing: 741015
Start Date: 9-3-15	Bridge No.: NA	Easting: 834754
Finish Date: 9-3-15		Surface Elevation: 339.6

Project Description: Safety Improvements on Route 133

Casing Size/Type: 4 inch HFJ | Sampler Type/Size: 2 inch SS | Core Barrel Type: NQ2

Hammer Wt.: 140lb Fall: 30in | Hammer Wt.: 140lb Fall: 30in.

Groundwater Observations:

Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes
					PAVEMENT STRUCTURE / GLACIAL TILL	
S-1	37 44 50	12	8		BEDROCK	Gray- F/C SAND, little F/C Gravel, trace Silt
C-1		60	16	0		Gray- medium grained, laminated bedded, intensly fractured, moderately weathered Schist Core Times (min/ft): 3.5, 3.5, 3.5, 3.5, 3.0
C-2		60	32	16		Gray- medium grained, laminated bedded, highly fractured, moderately weathered Schist Core Times (min/ft): 3.5, 3.5, 13.0, 10.5, 6.0
						END OF BORING 16ft

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in: Earth: 6ft Rock: 10ft | No. of Soil Samples: 1 | No. of Core Runs: 2
NOTES: Pavement structure consists of 9 inch of bituminous concrete with no discernable subbase.
Sheet 1 of 1 — SM-001-M REV. 1/02

Connecticut DOT Boring Report — Hole No. R-10

Driller: Jason Doru	Town: Bridgewater	Hole No.: R-10
Inspector: Glenn L. Art	Project No.: 0016-0098	Stat./Offset: 150+51.6/4.6 ft Left
Engineer: Sara Ghato	Route No.: 133	Northing: 41354
Start Date: 9-3-15	Bridge No.: NA	Easting: 34634
Finish Date: 9-3-15		Surface Elevation: 338.7

Project Description: Safety Improvements on Route 133

Casing Size/Type: 4 inch HFJ | Sampler Type/Size: 2 inch SS | Core Barrel Type: NQ2

Hammer Wt.: 140lb Fall: 30in. | Hammer Wt.: 140lb Fall: 30in.

Groundwater Observation

Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes
					PAVEMENT STRUCTURE / SAND	
S-1	3 7 3 19	24	13			Brown- F SAND, some F/C Gravel, little Silt with cobbles
S-2	40	2	2		BEDROCK	Gray- C/F Gravel, little F Sand, trace Silt
C-1		60	32	0		Gray- medium grained, laminated bedded, highly fractured, highly weathered Schist Core Times (min/ft): 6.5, 5.5, 5.16.0, 6.0
C-2		60	24	0		Gray- medium grained, laminated bedded, highly fractured, highly weathered Schist Core times (min/ft): 7.5, 4.5, 4.05.5, 4.0
						END OF BORING 17.7ft

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in: Earth: 7.7ft Rock: 10 | No. of Soil Samples: 2 | No. of Core Runs: 2
NOTES: Pavement structure consists of 9 inch of bituminous concrete with no discernable subbase.
Sheet 1 of 1 — SM-001-M REV. 1/02

Connecticut DOT Boring Report — Hole No. R-11

Driller: Jason Dorou	Town: Bridgewater	Hole No.: R-11
Inspector: Glenn L. Arzt	Project No.: 0016-0098	Stat./Offset: 152+1.8/1.3 ft Left
Engineer: Sara Ghatoe	Route No.: 133	Northing: 74149
Start Date: 9-2-15	Bridge No.: NA	Easting: 83456
Finish Date: 9-2-15		Surface Elevation: 30.9

Project Description: Safety Improvements on Route 133

Casing Size/Type: 4 inch HFJ | Sampler Type/Size: 2 inch SS | Core Barrel Type: NQ

Hammer Wt.: 140lb Fall: 30in | Hammer Wt.: 140lb Fall: 30in.

Groundwater Observations:

Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes
					PAVEMENT STRUCTURE / GLACIAL TILL	
S-1	8 31 25 20	24	20			Gray- C/F SAND, AND C/F GRAVEL, trace Silt
S-2	24 26 21 42	24	14			Tan- C/F SAND, some C/F Gravel, trace Silt
S-3	70	3	2		BEDROCK	Gray- C/F SAND, AND F/C GRAVEL, trace Silt with cobbles
C-1		60	61	76.6		Gray- medium grained, laminated bedded, moderately fractured, moderately weathered Schist Core Times (min/ft): 6.0, 6.0, 7.0, 6.5, 7
C-2		60	62	71.6		Gray- medium grained, laminated bedded, highly fractured, highly weathered Schist Core Times (min/ft): 6.0, 7.0, 7.0, 7.0, 7
						END OF BORING 25.25ft

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 5%

Total Penetration in: Earth: 15.25ft Rock: 10ft | No. of Soil Samples: 3 | No. of Core Runs:
NOTES: Pavement structure consists of 6 inch of bituminous concrete with no discernable subbase.
Sheet 1 of 1 — M-001-M REV. 1/02

FINAL DESIGN REVIEW

REV. / DATE / REVISION DESCRIPTION / SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 10/26/2015	DESIGNER/DRAFTER: EBS; CHECKED BY: JDP
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION — Filename: ...\HW_MSH_0016_0098_BOR-01.dgn	SIGNATURE/BLOCK: OFFICE OF ENGINEERING; APPROVED BY:	PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133
TOWN: BRIDGEWATER	DRAWING TITLE: BORING LOGS	PROJECT NO. 16-98; DRAWING NO. BOR-01; SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

Connecticut DOT Boring Report

Driller: J. Doner		Hole No.: RW-102-1	
Inspector: R. Pion	Town: Bridgewater	Stat./Offset: 127+18/3 ft Lft	
Engineer: R. Pion	Project No.: 0016-0098	Northing: 739122	
Start Date: 5-20-08	Route No.: 133	Easting: 835226	
Finish Date: 5-20-08	Bridge No.:	Surface Elevation: 255.5	
Project Description: Roadwa Realignment			
Casing Size/Type: 3 inch HW	Sampler Type/Size: 1 3/8 in ID	Core Barrel Type: DT NQ	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @3 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE		255
	S-1	16 14 2 75	24	14		GLACIAL TILL	Gray completelyweathered rock	
5	S-2	40 100	6	4			Brown c-f GRAVEL, and f-c SAND, trace silt	250
10	S-3	12 20 4 50	20	7			Brown c-f GRAVEL, and f-c SAND, trace silt	245
						BEDROCK		
15	C-1		60	36	0		Gray medium grined, laminated, highly fractured slightlyweathered strong schist Core times in min/ft: 4,1,2,3	240
20	C-2		60	60	23		Gray medium grined, laminated, intensely fractured slightlyweathered strong schist Core times in min/ft: 2,3,2,2	235
							END OF BORING 22ft	

Sample Type S = Split Spoon C = Core UP = Undisturbed Pistor V = Vane Shear Test
Proportions Ued: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 35%, And = 35 - 50%

Total Penetration in Earth: 12ft Rock: 10ft	NOTES: Pavement Structure Consists of 12 inche of bituminous pavement on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 2		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: J. Doner		Hole No.: RW-102-2	
Inspector: R. Pion	Town: Bridgewater	Stat./Offset: 128+50/8ft Rt	
Engineer: R. Pion	Project No.: 0016-0098	Northing: 739252	
Start Date: 5-19-08	Route No.: 133	Easting: 835205	
Finish Date: 5-20-08	Bridge No.:	Surface Elevation: 258.5	
Project Description: Roadway Realignment			
Casing Size/Type: 3 inch HW	Sampler Type/Size: 1 3/8 in ID	Core Barrel Type: DT NQ	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @6 aftx 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and notes	Elevation (ft)
0						PAVEMENT STRUCTURE		
	S-1	17 13 19 15	24	14		GLACIAL TILL	Brown f-c SAND, and f-cgravel trace silt	255
5	S-2	14 91 55 68	24	16			Brown f-c SAND, and f-cgravel trace silt	250
10	S-3	52 108	12	8			Brown f-c SAND, and f-cgravel trace silt	
	C-1		18	12	0	BEDROCK	Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 3,2	245
15	S-4	100	6	4			Gray completely weathered rock	
	C-2		60	60	12		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 2,3,5,5,6	240
20	C-3		30	30	72		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 5,5,4	
							END OF BORING 22.5ft	235

Sample Type: S = Slit Spoon C = Core UP = Undisturbed Piston V = \ane Shear Test
Proportions Used: Tace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 12.5ft Rock: 10ft	NOTES: Pavement Structure Consists of 12 inches of bituinous pavement on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 4 No. of Core Runs: 3		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: J. Doner		Hole No.: RW-102-3	
Inspector: R. Pion	Town: Bridgewater	Stat./Offset: 130+11/2 ft Lft	
Engineer: R. Pion	Project No.: 0016-0098	Northing: 739410	
Start Date: 5-19-08	Route No.: 133	Easting: 835186	
Finish Date: 5-19-08	Bridge No.:	Surface Elevation: 264.5	
Project Description: Roadway Realignmen			
Casing Size/Type: 3 inch HW	Sample Type/Size: 1 3/8 in ID	Core Barrel Tpe: DT NQ	
Hammer Wt.: Fall: in.	Hamma Wt.: 140 Fall: 30in.		
Groundwater Observations: @2.5 after 0 burs			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Descripon and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE		
	S-1	20 34 20 50	24	24		GLACIAL TILL	Gray Brown c-f GRAVEL, and f: SAND, trace silt	
						BEDROCK		260
5	C-1		60	30	18		Gray medium grained, laminate, highly fractured slightly weathered strog schist Core times in min/ft: 5,3,3,5,6	
10	C-2		60	58	48		Gray medium grained, laminate, highly fractured slightly weathered strog schist Core times in min/ft: 4,3,4,4,3	255
							END OF BORING 14ft	250
15								

Sample Type: S = Split Spon C = Core UP = Undisturbed Piston V = Vane Sear Test
Proportions Used: Trace =1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And <35 - 50%

Total Penetration in Earth: 4ft Rock: 10ft	NOES: Pavement Structure Consists of 12 inches of bituminous pavment on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 1 No. of Core Runs: 2		SM-001-M REV. 1/02

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDIN ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/18/2013

DESIGNER/DRAFTER: MM
CHECKED BY: KP
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_SOIL_BORINGS_1.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER
DRAWING TITLE: BORING LOG 1

PROJECT NO. 16-98
DRAWING NO. S-2
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 40 OF 52

DRAWING NO. UTL-B40 SHEET NO. 03.303

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

Connecticut DOT Boring Report

Driller:	J. Doner	Hole No.:	RW-102-4
Inspector:	R. Pion	Town: Bridgewater	Stat./Offset: 131+53/2 ft Rt
Engineer:	R. Pion	Project No.: 0016-0098	Nrthing: 739551
Start Date:	5-15-08	Route No.: 133	Easing: 835173
Finish Date:	5-19-08	Bridge No.:	Srface Elevation: 273.4
Project Description:	Roadway Ralignment		
Casing Size/Type:	3 inch HW	Sampler Type/Size: 1 3/8 in ID	Cre Barrel Type: DT NQ
Hammer Wt.:	Fall: in.	Hammer Wt.: 140 Fall: 30in.	
Groundwater Observations:	@1.: after 24+ hours		

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE		
	S-1	11 20 27 50	19	12		GLACIAL TILL	Gray Brown c-f GRAVEL, and c-f sand, trace silt	270
5	S-2	71 85 114	18	10			Gray completely wethered rock	
10	S-3	100	6	4		WEATHERED BEDROCK	Gray completely wethered rock	265
						BEDROCK		
15	C-1		60	54	8		Gray medium grained, laminated, highly fractured slightly wethered strong schist Core times in min/ft: 3,3,34,4	260
20	C-2		51	48	0		Gray medium grained, laminated, highly fractured slightly wethered strong schist Core times in min/ft: 3,2,23,5	255
							END OF BORING 2.2ft	

Sample Type: I = Split Spoon C = Core UP = Undisturbed Piston \ = Vane Shear Test
Proportions Usec Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 12ft Rock: 9.2ft	NOTES: Pavement Structure Consists of 12 inches obituminous pavement on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 2		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller:	J. Doner	Hole No.:	RW-102-5
Inspector:	R. Pion	Ton: Bridgewater	Stat./Offset: 132+61/11 ft Lft
Engineer:	R. Pion	Pract No.: 0016-0098	Northing: 739660
Start Date:	5-15-08	Rote No.: 133	Easting: 835145
Finish Date:	5-15-08	Brige No.:	Surface Ilevation: 286.4
Project Description:	Roadway Realignment		
Casing Size/Type:	3 inch HW	Sapler Type/Size: 1 3/8 in ID	Core Barel Type: DT NQ
Hammer Wt.:	Fall: in.	Hamer Wt.: 140 Fall: 30in.	
Groundwater Observations:	@3 after Ihours		

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Hen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Decription and Noes	Elevation (ft)
0						TOPSOIL MISC. FILL		
	S-1	3 6 7 8	14	14			Gray Brown c-f GRAVEL, ad c-f SAND, trace silt	285
						GLACIAL TILL		
5	S-2	100	3	3			Gray c-f GRAVEL, and c-f IAND, little silt	280
						BEDROCK		
10	C-1		10	30	0		Gray medium grained, lamiated, intensely fractured slightly weatherecstrong schist Core times in min/ft: 5,5,4,4,6	275
15	C-2		10	60	73		Gray medium grained, lamiated, highly fractured slightly weatherecstrong schist Core times in min/ft: 6,5,6,5,6	270
							END OF BORING 15.5ft	

Sample Type: S = Spl Spoon C = Core UP = Undisturbed Piston V = Vae Shear Test
Proportions Used: Trae = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, Aed = 35 - 50%

Total Penetration in Earth: 5.5ft Rock: 10ft	VOTES:	Sheet 1 of 1
No. of Soil Samples: 2 No. of Core Runs: 2		SM-001-M REV. 1/02

Conecticut DOT Boring Report

Driller:	A. Conant	Hole No.:	RI-102-7
Inspector:	G. Arzt	Town: Bridgewater	Stat./Offset: 13+75/8' Lft
Engineer:	R. Pion	Project Ne. 0016-0098	Northing: 73981
Start Date:	4-4-13	Route No. 133	Easting: 83251
Finish Date:	4-4-13	Bridge No.	Surface Elevatic: 251.4
Project Description:	Roadway Realignment		
Casing Size/Type:	4 inch HW	Sampler Tpe/Size: 1 3/8 in ID	Core Barrel Typ DT NQ
Hammer Wt.:	Fall: in.	Hammer Wt.: 140 Fall: 30in.	
Groundwater Observations:	@8 after 0 hourr		

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Descriptic and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE		
	S-1	14 23 21 15	24	9		GLACIAL TILL	Brown c-f SAND, and c-f GRAVELtrace silt	250
5						BEDROCK		245
10	C-1		60	8	21		Gray medium grained, laminated, ighly fractured slightly weathered strongchist Core times in min/ft: 7,3,2,3,5	240
15	C-2		42	7	0		Gray medium grained, laminated, ighly fractured slightly weathered strongchist Core times in min/ft: 3,5,3,3,5	235
							END OF BORING 15ft	

Sample Type: S = Split Spon C = Core UP = Undisturbed Piston V = Vane Sher Test
Proportions Used: Trace = 1 10%, Little = 10 - 20%, Some = 20 - 35%, And = 3 - 50%

Total Penetration in Earth: 6.5ft Rock: 7.75ft	NOTE: Pavement Structure Consists of 12 inches of bituminous pavemnt on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 1 No. of Core Runs: 2		SM-001-M REV. 1/02

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/18/2015

DESIGNED/DRAFTER: MM
CHECKED BY: KP
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_SOIL_BORINGS_2.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER
DRAWING TITLE: BORING LOG 2

PROJECT NO. 16-98
DRAWING NO. S-3
SHEET NO.

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

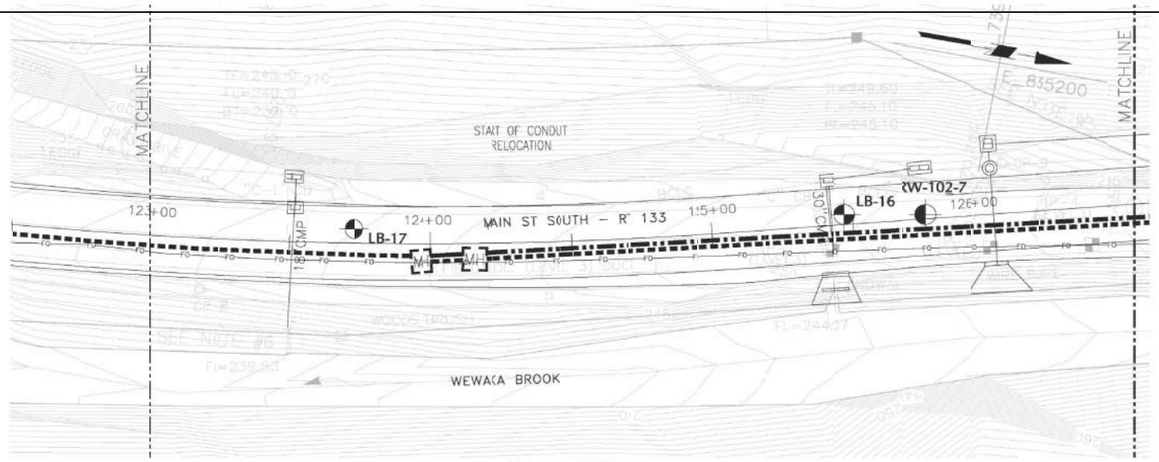
Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

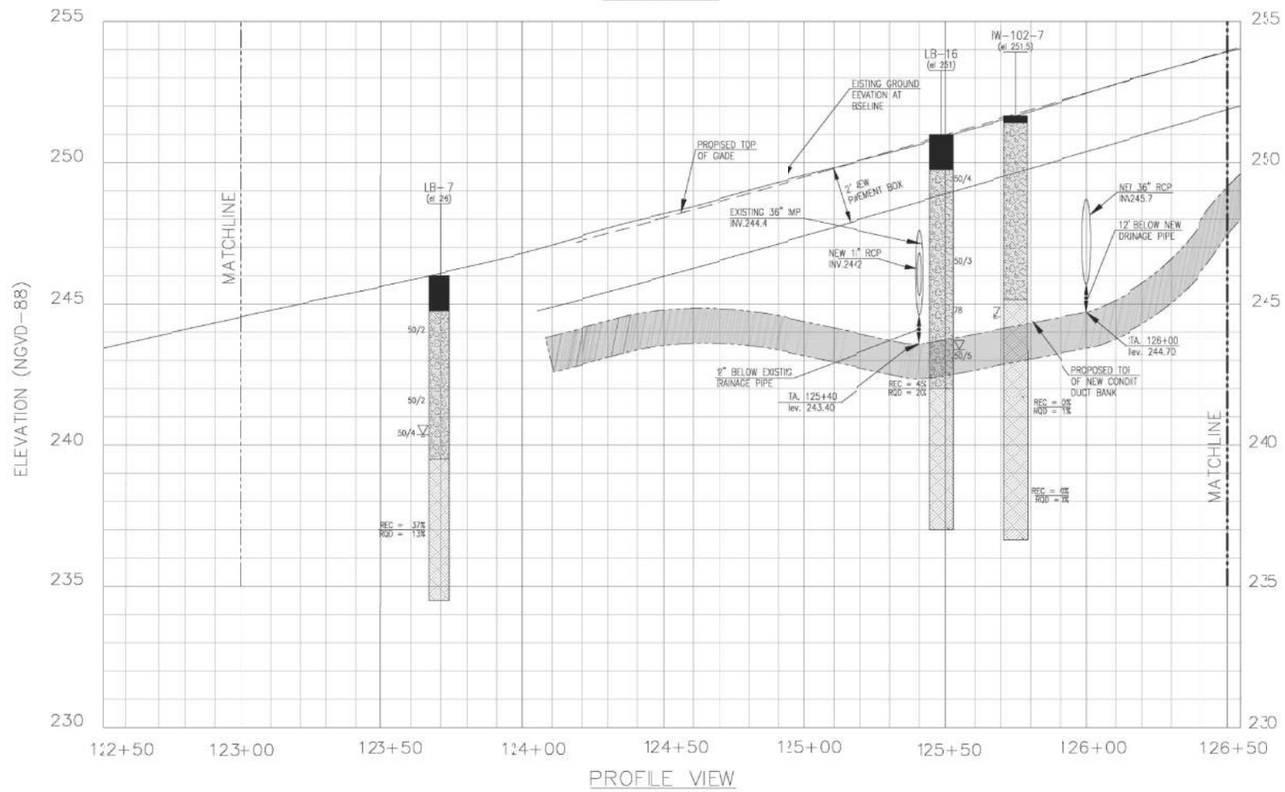
CONFIDENTIAL/PROPRIETARY SHEET: 41 OF 52

DRAWING NO. UTL-B41 SHEET NO. 03.304

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



PLAN VIEW



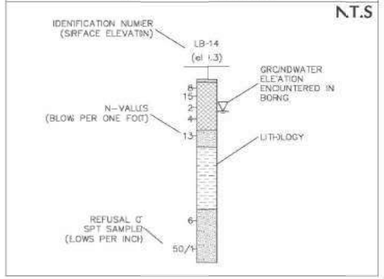
PROFILE VIEW

NOTES

1. ALL BORING AND OBSERVATION WELL LOCATIONS ARE APPROXIMATE.
2. ELEVATIONS REFERENCE NGVD88.
3. EXISTING CONDITIONS INFORMATION TAKEN FROM TOPOGRAPHIC AND BOUNDARY SURVEY TITLED "SAFETY IMPROVEMENTS ON ROUTE 133," PREPARED BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION (CONNDOT), AND DATED 30 NOVEMBER 2015.
4. BASE WAS OBTAINED FROM A SET OF DRAWINGS TITLED "FIBER OPTIC PLACEMENT/RELOCATION, BRIDGEWATER, CT", DATED 21 AUGUST 2015 AND MOST RECENTLY REVISED ON 22 JANUARY 2016, AND PREPARED BY 2COM GROUP LLC.
5. BORINGS (RW-102-1 THRUGH RW-102-7) INFORMATION OBTAINED FROM AVAILIBLE GEOTECHICAL ENGINEERING REPORT PREPARED BY CONNDOT, DATED SPTEMBER 5, 2013.
6. BORINGS (RW-8 THROUGH W-11) INFORMATION OBTAINED FROM AVAILABLE GEOTECHICAL ENGINEERING REPORT PREPARD BY CONNDOT, DATED SEPTEMBER 28, 2015.
7. BORINGS (LB-01 THROUGH B-17) PERFORMED BY SOILTESTING, INC BETWEEN JANUARY 27 AND FEBUARY 1, 2016 UNDER THE FULL-TIME OBSERVATION OF A FIELD ENGINEER FROM LANGAN.
8. BACKGROND PLANS USED IN THIS DRAWING ARE FOR REFERENCE ONLY.
9. THIS PROFILE REPRESENTS A GENERALIZED SOIL CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, BEDROCK, AND GROUNDWATER MAYBE VARY IN TYPE, LOCATION, ELEVATION AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN UNSURFACE CONDITIONS SHOULD BE EXECTED BETWEEN BORING LOCATION.

PROFILE LEGEND

N.T.S



LEGEND

LB-13	LANGA APPROXIMATE BORIN LOCATION
RW-102-3	CONNDT APPROXIMATE BORIN LOCATION
—ro—ro—	EXISTIK FIBER OPTIC TRENC LOCATION
	PROPSED FIBER OPTIC TRENC LOCATION

LITHOLOGY LEGEND

ASPHALT	SUBBASE	TOPSOIL
FILL	SAND	GLACIAL TIL
WEATHERED ROCK	BEDROCK	

VERTICAL SCALE IN FEET (2 0 .5 1 2)

HORIZONTAL SCALE IN FEET (20 0 5 10 20)

LANGAN

559 Long Wharf Drive, New Haven, CT 06511
T: 203.562.5771 F: 203.789.0142 www.langan.com

NEW JERSEY NEWYORK CONNECTICUT PENNSYLVANIA
OHIO WASHINGTON, DC FLORIDA TEXAS CALIFORNIA
ABU DHABI ATHENS DIFC DUBAI ISTANBUL PANAMA LONDON

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. D.B.A. Langan Engineering and Environmental Services, D.P.C. D.B.A. Langan Engineering and Environmental Services, LLP.

Langan CT
Project Number 170101301
Drafted by Langan CT
Checked by Langan

FIBER OPTIC CABLE RELOCATION

BRIDGEWATER CONNECTICUT

PLAN AND PROFILE VIEW

DRAFT

140117301	Drawing No.
02/05/2016	4
1"=10'	
RFB LC	
X	1 ###

2COM GROUP LLC.

102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
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NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
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4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

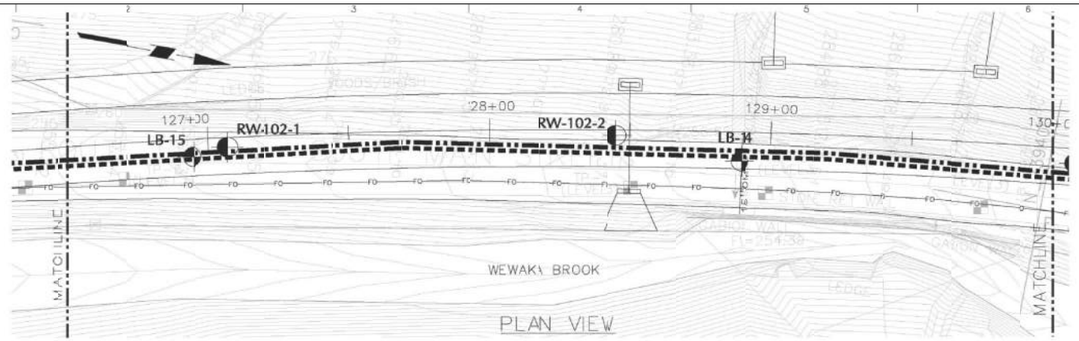
Level(3) COMMUNICATIONS

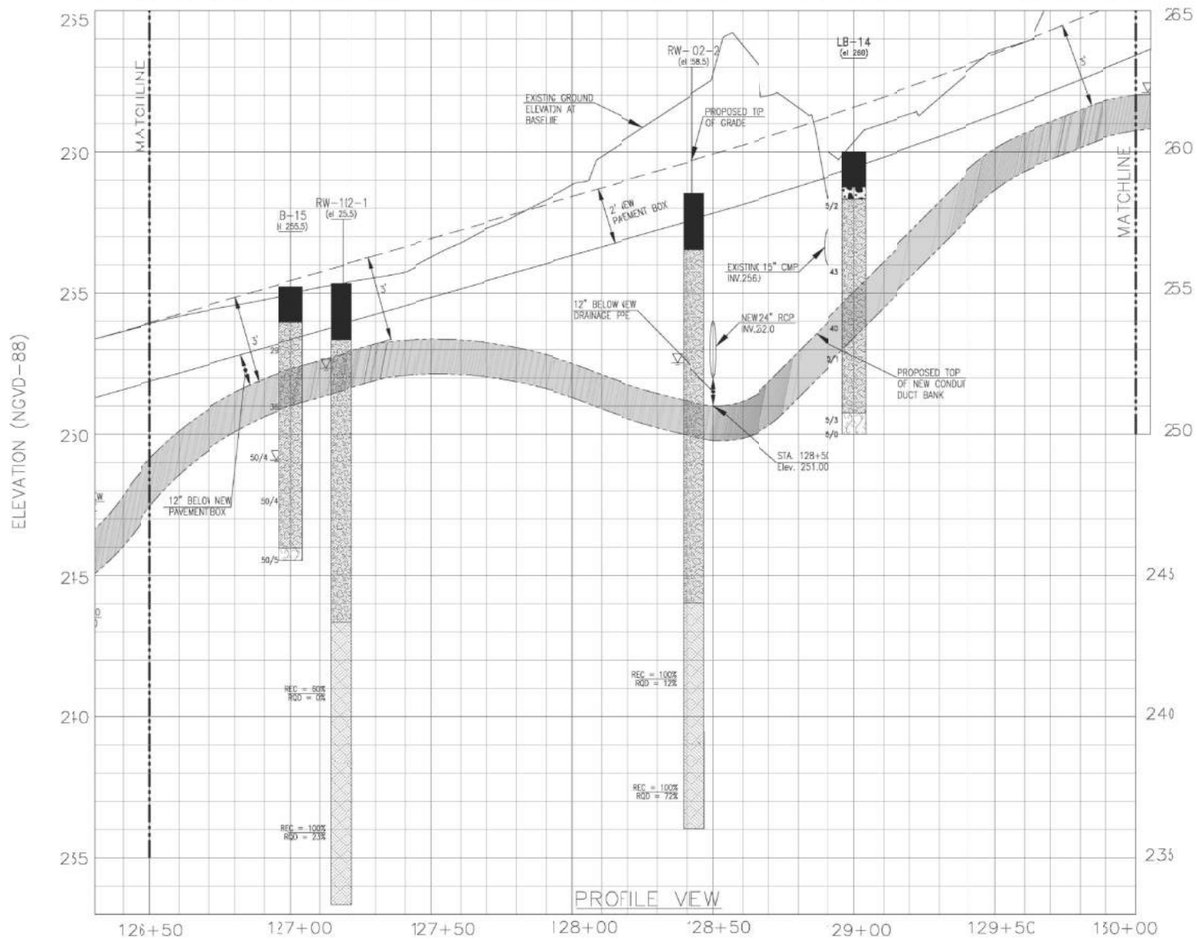
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 42 OF 52

DRAWING NO. UTL-B42 SHEET NO. 03.305

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



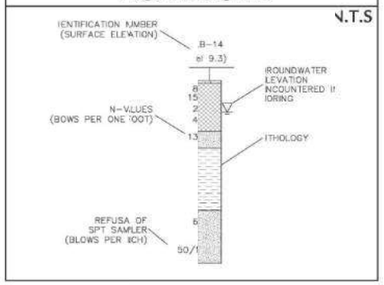


NOTES

1. ALL BRING AND OBSERVAION WELL LOCATIONS ARE APPROXIMATE.
2. ELEVAIONS REFERENCE NAVD-88.
3. EXISTIG CONDITIONS INFOMATION TAKEN FRO TOPOGRAOHIC ANI BOUNDARY SURVEY TITLED "SAFEY IMPROVEMENTS IN ROUTE 133," REPARED BY THE STATE OF CONNECTICUT DEPAIMENT OF TRANSPOTATION (CONNDOT), AD DATED 30 NOVEBER 2015.
4. BASE AAPS OBTAINED FRO A SET OF DRAWINS TITLED "FIBER OFIC PLACEMENT/RELOCATION, BRIDGWATER, CT", DATED 27 AUGUST 2015 ND MOST RECENTLY REVISED ON 22 JAUARY 2016,AND PREPARED BY COM GROUP LLC.
5. BORINS (RW-102-1 THROUGH RW-102-) INFORMATION OTAINED FROM AVAILABLE GEOTEHNICAL ENGINEERIN REPORT PREPAREDBY CONNDOT, DATEI SEPTEMBER 5, 201.
6. BORINS (RW-8 THROUG RW-11) INFORMAION OBTAINED FRO AVAILABLE GEOTEHNICAL ENGINERING REPORT PREPRED BY CONNDOT, ATED SEPTEMBER 2, 2015.
7. BORINS (LB-01 THROUG LB-17) PERFORMD BY SOLTESTING, NC. BETWEEN JANURY 27 AND EBRUARY 1, 2016 JNDER THE FULL-ME OBSERVATION O A FIELD ENGINEEI FROM LANGA.
8. BACKGOUND PLANS USEDIN THIS DRAWING AE FOR REFERENCE NLY.
9. THIS ROFILE REPRESENT A GENERALIZED SIL CROSS SECTION INTERPRETED FROM WIDELY SPACD BORINGS. SOIL, BEDROCK, AND GRUNDWATER MAYBE VARY IN TYPE, LOCATION, ELEVAION, AND ENVIRMENTAL AND ENINEERING PROPERTIS BETWEEN POINS OF EXPLOATION. VARIATIONS I SUBSURFACE CONTIONS SHOULD BE XPECTED BETWEEN IORING LOCATIONS.

PROFILE LEGEND

N.T.S



LEGEND

L3-13	LANGA APPROXIMATE BORIN LOCATION
RW-102-3	CONNDT APPROXIMATE BORIN LOCATION
FO FO	EXISTIN FIBER OPTIC TRENC LOCATION
	PROPOED FIBER OPTIC TRENC LOCATION

LITHOLOGY LEGEND

ASPHALT	SUBBASE	TOPSOIL
FILL	SAND	GLACIAL TL
WEATHERED ROCK	BEDROCK	

2 0 5 1 2 VERTICAL SCALE IN FEET

20 0 5 10 20 HORIZENTAL SCALE IN FET

LANGAN

555 Long Wharf Drive, New Haven, CT 6511
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ABU DHABI ATHENS DHA DUBAI GERMANY PANAMA LONDON

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. f/k/a Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, D.P.C. Langan Treaty Services, LLC Langan International LLC (Formerly known as Langan)

FIBER OPTIC CABLE RELOCATION

BRIDGEWATER CONNECTICUT

PLAN AND PROFILE VIEW

DRAFT

1401.07301	Drawing No.
02/03/2016	5
1"=20'	
RE LC	
X	2 ###

2COM GROUP LLC.

102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

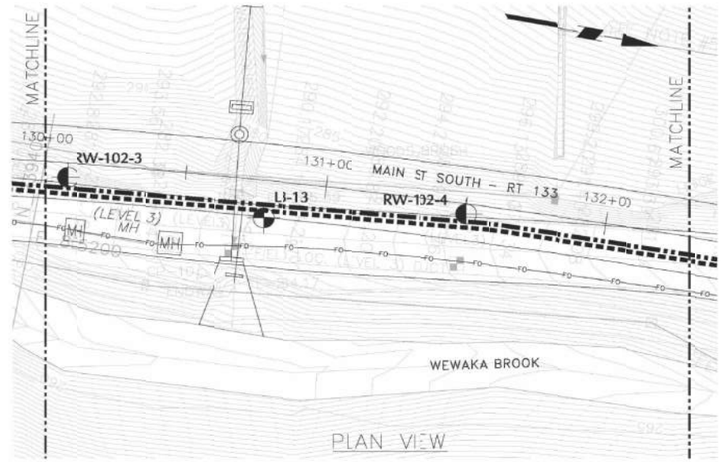
Level 3 COMMUNICATIONS

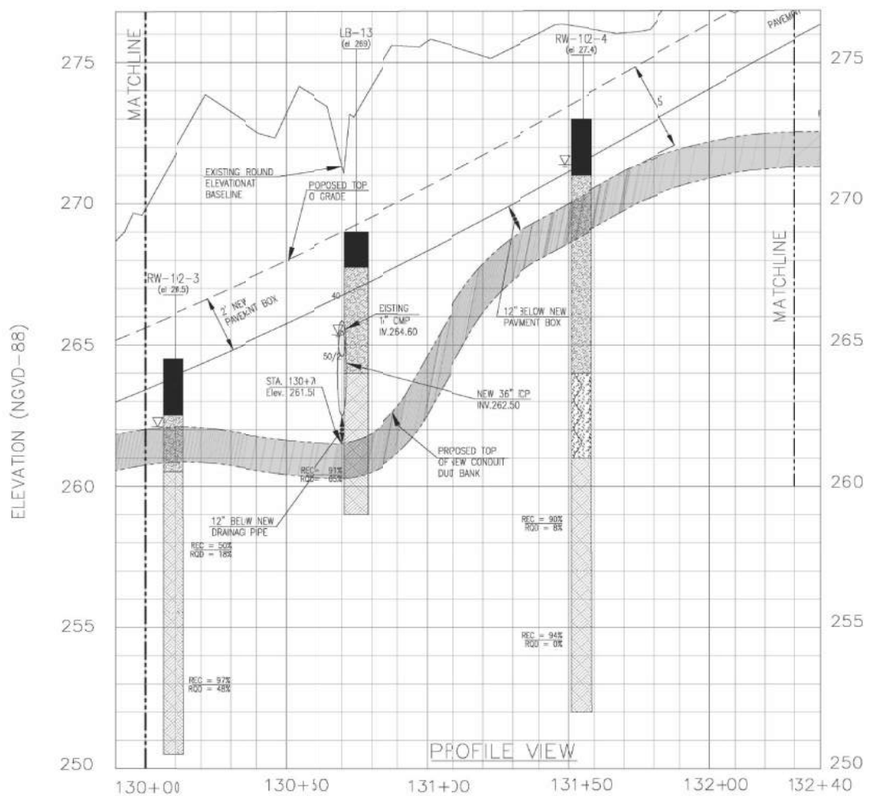
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 43 OF 52

DRAWING NO. UTL-B43 SHEET NO. 03.306

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



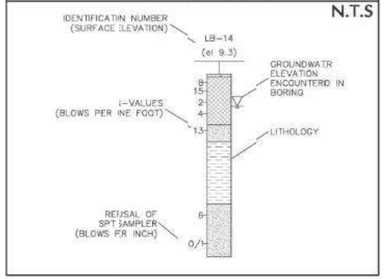


NOTES

1. ALL BORING AND OBSERVATION WELL LOCATINS ARE APPROXIMATE.
2. ELEVATIONS REFERENCE NGVD-88.
3. EXISTING CONDITIONS INFORMATION TAKEN FROM TOPOGRAPHIC AND BOUNDARY SURVEY TITLED "SAFETY IMPROVEMENTS ON ROUTE 133" PREPARED BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION (CONNDOT) AND DATED 30 NOVEMBER 2015.
4. BASE MAPS OBTAINED FROM A SET OF DRAWINGS TITLED "FIBER OPTIC PLACEMENT/RELOCATION, BRIDGEWATER, CT", DATED 27 AUGUST 2013 AND MOST RECENTLY REVISED ON 27 JANUARY 2016, AND PREPARED BY 2COM GROUP LLC.
5. BORINGS (RW-102-1 THROUGH RW-10-7): INFORMATION OBTAINED FROM AVAILABLE GEOTECHNICAL ENGINEERING REPORT PREPARED BY CONNDOT, DATED SEPTEMBER 5, 2013.
6. BORINGS (RW-8 THROUGH RW-11): INFORMATION OBTAINED FROM AVAILABLE GEOTECHNICAL ENGINEERING REPORT PREPARED BY CONNDOT, DATED SEPTEMBER 28, 2015.
7. BORINGS (LB-01 THROUGH LB-17) PERFORMED BY SOILTESTING, INC. BETWEEN JANUARY 27 AND FEBRUARY 1, 2016 UNDER THE FULL-TIME OBSERVATION OF A FIELD ENGINEER FROM LANGAN.
8. BACKGROUND PLANS USED IN THIS DRAWING ARE FOR REFERENCE ONLY.
9. THE PROFILE REPRESENTS A GENERALIZED SOIL CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, BEDROCK, AND GROUNDWATER MAYE VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORING LOCATIONS.

PROFILE LEGEND

N.T.S



LEGEND

- LB-13 — LANGAN APPROXIMATE BORING LOCATION
- RW-102-3 — CONNDOT APPROXIMATE BORING LOCATION
- EXISTING FIBER OPTIC TRENCH LOCATION
- PROPOSED FIBEROPTIC TRENCH LOCATION

LITHOLOGY LEGEND

ASPHALT, SUBBASE, TOPSOIL, FILL, SAND, GLACIAL TILL, WEATHERED ROCK, BEDROCK

VERTICAL SCALE: 1"=5' — HORIZONTAL SCALE: 1"=10'

LANGAN
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FIBER OPTIC CABLE RELOCATION

BRIDGEWATER — CONNECTICUT

PLAN AND PROFILE VIEW

DRAFT

1401127301 — Drawing No. 6
02/05/2016
1"=20'
PEB — LC
X — 2 ###

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

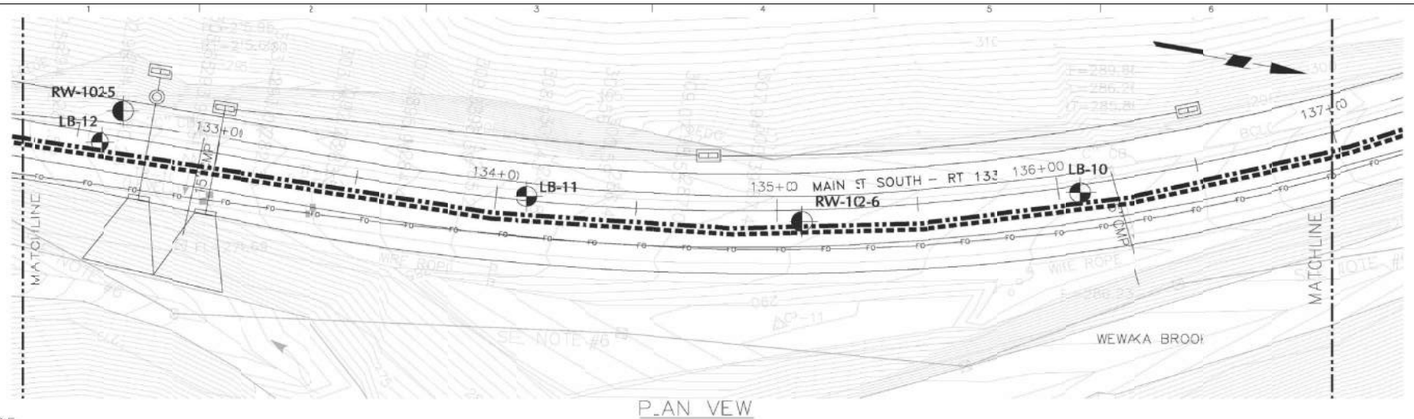
Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

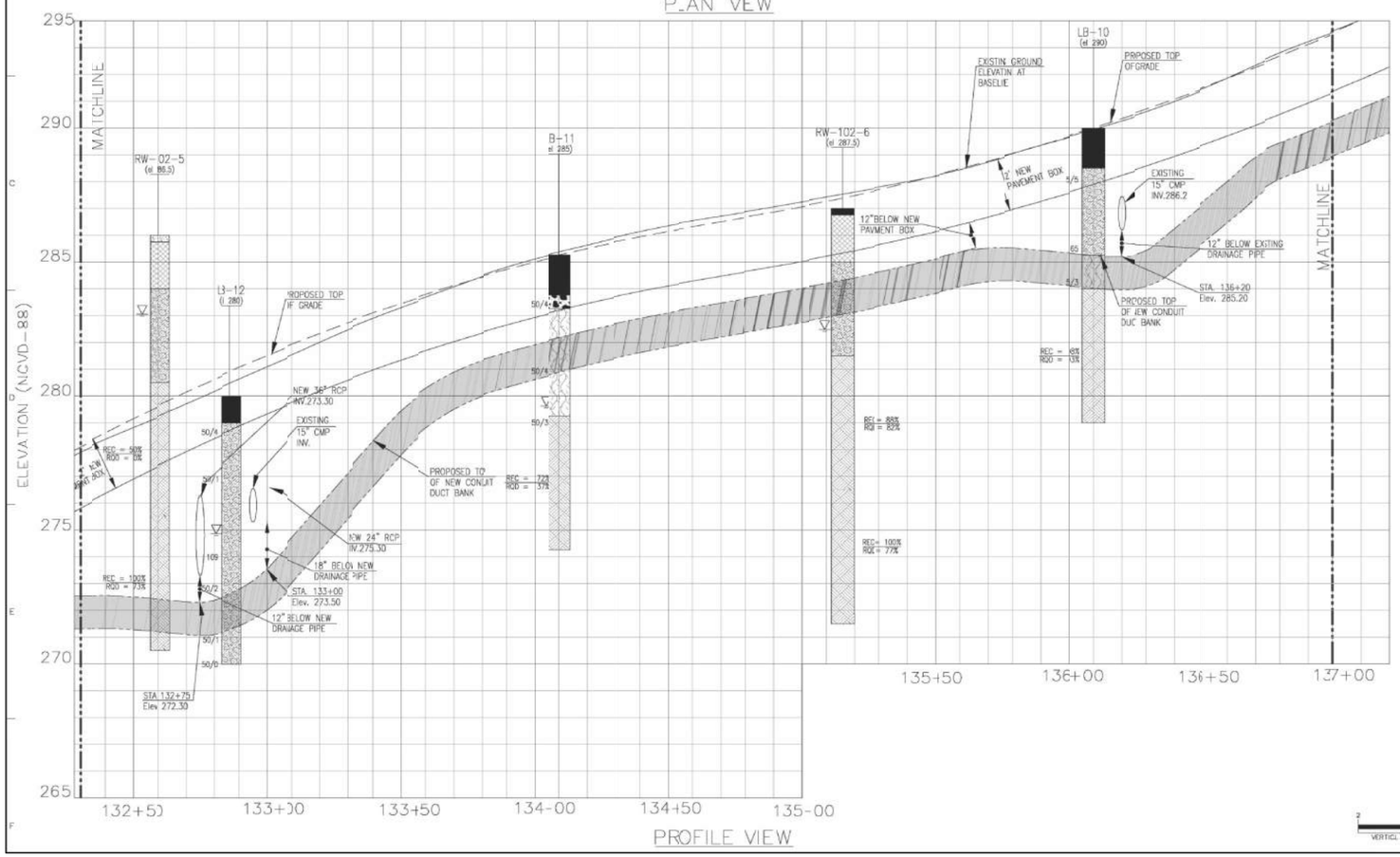
CONFIDENTIAL/PROPRIETARY — SHEET: 44 OF 52

DRAWING NO. UTL-B44 SHEET NO. 03.307

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



PLAN VIEW



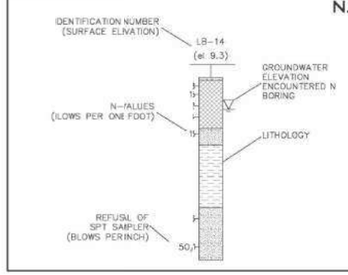
PROFILE VIEW

NOTES

1. ALL BORING AND OBSERVATION WELL LOCATIONS ARE APPROXIMATE.
2. ELEVATIONS REFERENCE GVD-88.
3. EXISTING CONDITIONS INFORMATION TAKEN FROM TOPOGRAPHIC AND BOUNDARY SURVEY TITLED "SAFETY IMPROVEMENTS ON ROUTE 133," PREPARED BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION (CONNDOT), AND DATED 30 NOVEMBER 2015.
4. BASE MAPS OBTAINED FROM A SET OF DRAWINGS TITLED "FIBER OPTIC PLACEMENT/RELOCATION, BRIDGEWATER, CT", DATED 27 AUGUST 2015 AND MOST RECENTLY REVISED ON 22 JANUARY 2016, AND PREPARED BY 2COM GROUP LLC.
5. BORINGS (RW-102-1 THROUGH RW-102-7) INFORMATION OBTAINED FROM AVAILABLE GEOTECHNICAL ENGINEERING REPORT PREPARED BY CONNDOT, DATED SEPTEMBER 5, 2013.
6. BORINGS (RW-8 THROUGH RW-11) INFORMATION OBTAINED FROM AVAILABLE GEOTECHNICAL ENGINEERING REPORT PREPARED BY CONNDOT DATED SEPTEMBER28, 2015.
7. BORINGS (LB-01 THROUGH LB-17) PERFORMED BY SOILTESTING INC. BETWEEN JANUARY 27 AND FEBRUARY 1, 2016 UNDER THE FULLTIME OBSERVATION OF A FIELD ENGINEER FROM LANGAN.
8. BACKGROUND PLANS USED IN THIS DRAWING ARE FOR REFERENCE ONLY.
9. THE PROFILE REPRESENTS A GENERALIZED SOIL CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, BEDROCK, AND GROUNDWATER MAYBE VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORING LOCATIONS.

PROFILE LEGEND

N.T.S



LEGEND

LB-13	LANGAN APPROXIMATE BORING LOCATION
RW-102-3	CONNDOT APPROXIMATE BORING LOCATION
FO FO	EXISTING FIBER OPTIC TRENCH LOCATION
	PROPOSED FIBER OPTIC TRENCH LOCATION

LITHOLOGY LEGEND

ASPHALT	SUBBASE
TOPSOIL	FILL
SAND	GLACIAL TILL
WEATHERED ROCK	BEDROCK

VERTICAL SCALE IN FEET — HORIZONTAL SCALE IN FEET

LANGAN

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ABU DHABI ATHENS DOHA DUBAI ISTANBUL PRAGUE LONDON

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. d/b/a Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, P.C. Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, P.C. Langan ETC, Inc. Langan International LLC
Licensed in Connecticut

FIBER OPTIC CABLE RELOCATION

BRIDGEWATER CONNECTICUT

PLAN AND PROFILE VIEW

DRAFT

1401.07301
02/03/2016
1"=10'
PE LC
X
Drawing No.
7
3 ###

2COM GROUP LLC.

102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

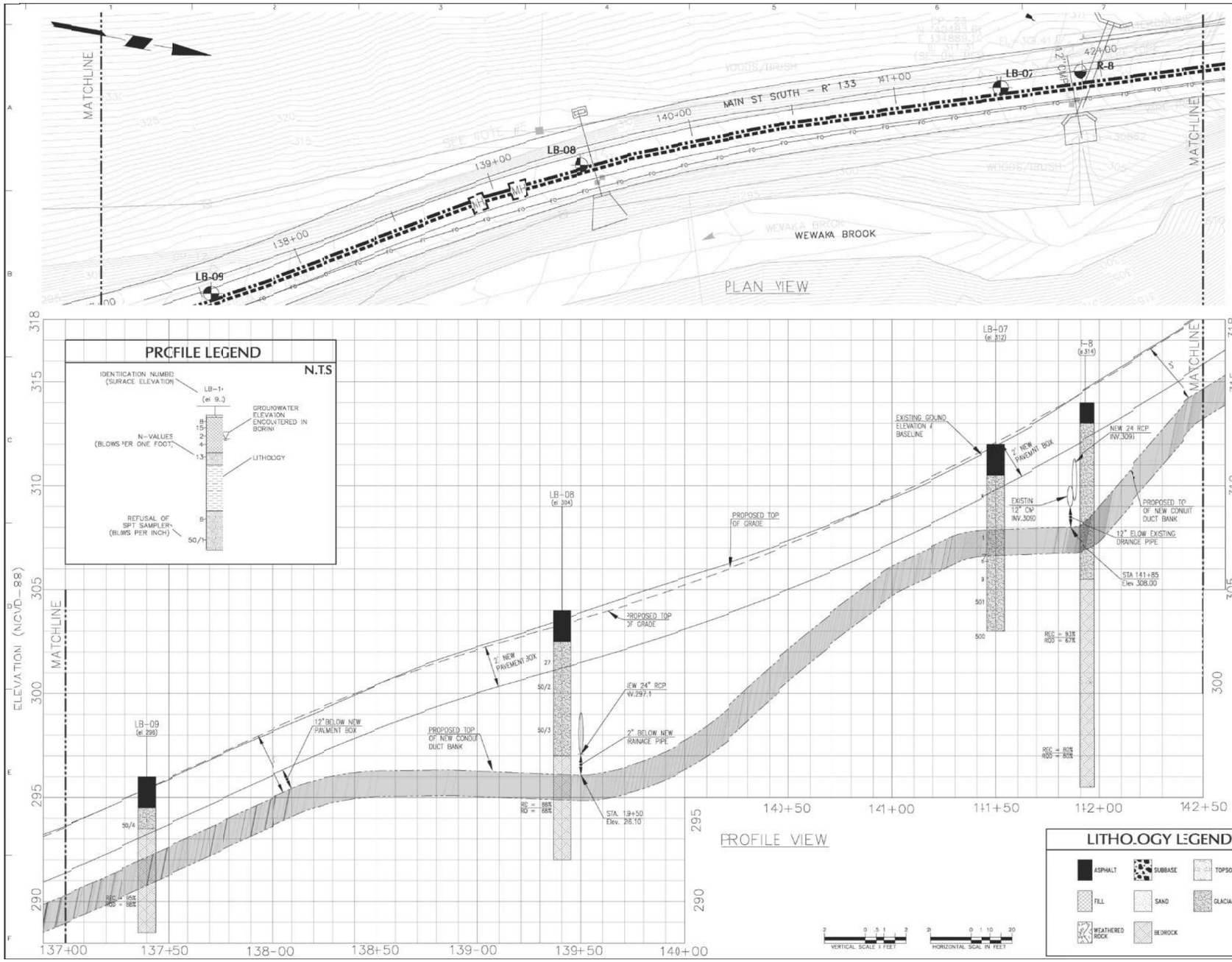
Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 45 OF 52

DRAWING NO. UTL-B45 SHEET NO. 03.308

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



NOTES

1. ALL BORING AND OBSERVATION WELL LOCATIONS ARE APPROXIMATE.
2. ELEVATION REFERENCE NGVD 88.
3. EXISTING CONDITIONS INFORMATION TAKEN FROM TOPOGRAPHIC AND BOUNDARY SURVEY TITLED "SAFETY IMPROVEMENTS ON ROUTE 133," PREPARED BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION (CONNDOT), AD DATED 30 NOVEMBER 2015.
4. BASE MAS OBTAINED FROM SET OF DRAWINGS TITLED "FIBER OPTIC PACEMENT/RELOCATIO, BRIDGEWATER, CT", DATED 27 AUGUST 015 AND MOST RECENTLY REVISED ON 22 JANUARY 2016, AN PREPARED BY 2COM GROUP LLC.
5. BORINGS (RW-102-1 THRUGH RW-102-7) INFORMATION OBTAINED FROM AVAILABLE COTECHNICAL ENGINERING REPORT PREPARED BY CONNDOT, DATE SEPTEMBER 5, 201.
6. BORINGS RW-8 THROUGH RW-11) INFORMATION BTAINED FROM AVAILABLE GEOTECHNICAL ENINEERING REPORT PREPARED BY CONNDOT DATED SEPTEMBER 8, 2015.
7. BORINGS LB-01 THROUGH L-17) PERFORMED BY SOILTESTING, INC., BETWEN JANUARY 27 AD FEBRUARY 1, 206 UNDER THE FULL-TIME OBSERVATION OF AFIELD ENGINEER FRM LANGAN.
8. BACKGROND PLANS USED IN THIS DRAWIG ARE FOR REFERENC ONLY.
9. THIS PROILE REPRESENTS A GENERALIZED SOIL ROSS SECTION INTERPRETED FROM WIDELY PACED BORINGS. SIL, BEDROCK, AND GROUNDWATER MAYBE VRY IN TYPE, LOCATIN, ELEVATION, AND ENRONMENTAL AND NGINEERING PROPERTIES BETWEEN POINTS O EXPLORATION. VRITIONS IN SUBSURFE CONDITIONS SHOULD E EXPECTED BETWEN BORING LOCATIONS.

LEGEND

LB-13	LANGAN APPROXIMATE BORING LOATION
RW-102-3	CONNDOT APPROXIMATE BORING LOATION
	EXISTING FIER OPTIC TRENCH LOATION
	PROPOSED IBER OPTIC TRENCH LOATION

LITHOLOGY LEGEND

ASPHALT, SUBBASE, TOPSOIL, FILL, SAND, GLACIALTILL, WEATHERED ROCK, BEDROCK

LANGAN

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Langan Engineering, Environmental, Surveying and Landscape Architecture, DPC d.b.a. Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, P.C.
Langan Engineering and Environmental Services, II
Langan Marchione LLC
Langan Marchione LLC
Stamford, Groton, NY, Langan

FIBER OPTIC CABLE RELOCATION

BRIDGEWATER CONNECTICUT

PLAN AND PROFILE VIEW

DRAFT

1401.07301
02/03/2016
1"=10'
PE LC
X 4 ###

Drawing No.
8

2COM GROUP LLC.

102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

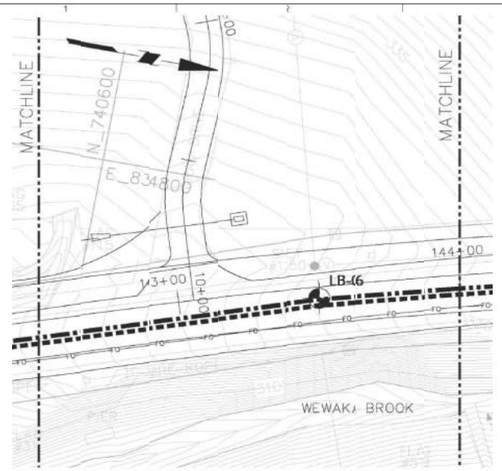
Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

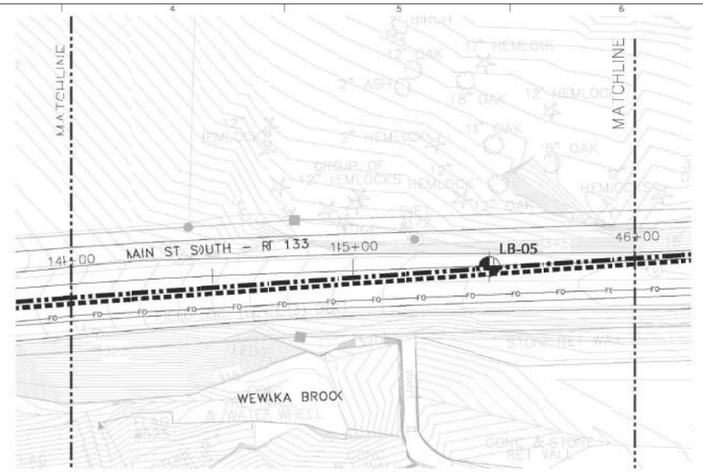
CONFIDENTIAL/PROPRIETARY SHEET: 46 OF 52

DRAWING NO. UTL-B46 SHEET NO. 03.309

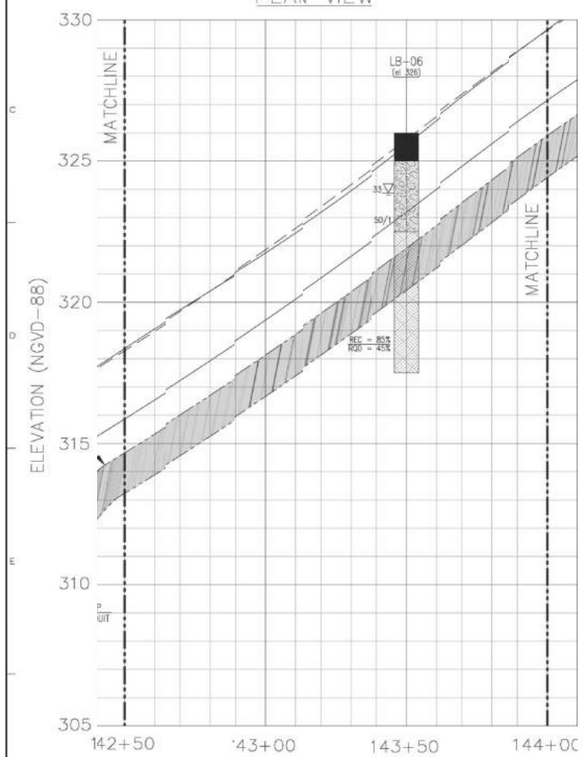
WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



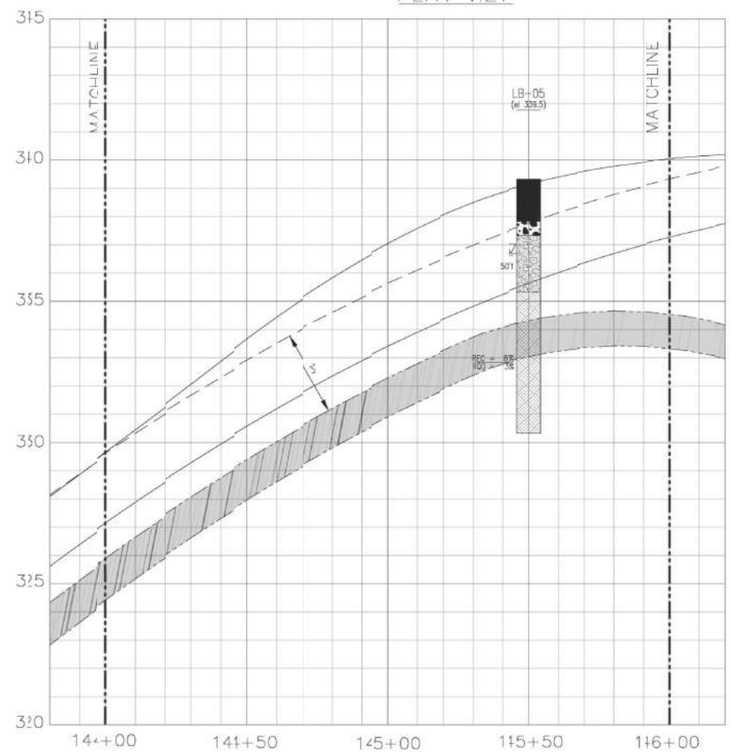
PLAN VIEW



PLAN VIEW



PROFILE VIEW



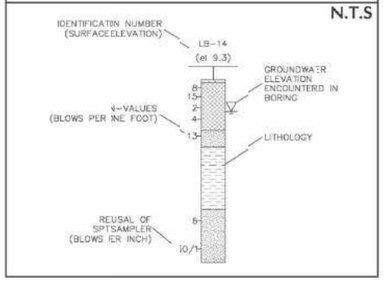
PROFILE VIEW

NOTES

1. ALL BORING AND OBSERVATION WELL LOCATIONS ARE APPROXIMATE.
2. ELEVATIONS REFERENCE NGVD-88.
3. EXISTING CONDITIONS INFORMATION TAKEN FROM TOPOGRAPHIC AND BOUNDARY SURVEY TITLED "SAFETY IMPROVEMENTS ON ROUTE 133," PREPARED BY THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION (CONNDOT), AND DATED 30 DECEMBER 2015.
4. AS-BUILT MAPS OBTAINED FROM A SET OF DRAWINGS TITLED "FIBER OPTIC PLACEMENT/RELOCATION, BRIDGEWATER, CT", DATED 27 AUGUST 2015 AND MOST RECENTLY REVISED ON 12 JANUARY 2016, AND PREPARED BY 2COM GROUP LLC.
5. DRAWINGS (RW-102-3 THROUGH RW-32-7) INFORMATION OBTAINED FROM AVAILABLE GEOTECHNICAL ENGINEERING REPORT PREPARED BY CONNDOT, DATED SEPTEMBER 5, 2013.
6. DRAWINGS (RW-8 THROUGH RW-11) INFORMATION OBTAINED FROM AVAILABLE GEOTECHNICAL ENGINEERING REPORT PREPARED BY CONNDOT, DATED SEPTEMBER 28, 2013.
7. DRAWINGS (LB-01 THROUGH LB-17) PERFORMED BY SOILTESTING, INC. BETWEEN JANUARY 27 AND FEBRUARY 1, 2016 UNDER THE FULL-TIME OBSERVATION OF A FIELD ENGINEER FROM LANGAN.
8. BACKGROUND PLANS SEED IN THIS DRAWING ARE FOR REFERENCE ONLY.
9. AS PROFILE REPRESENTS A GENERALIZED SOIL CROSS SECTION INTERPRETED FROM WIDELY SPACED BORINGS. SOIL, BEDROCK, AND GROUNDWATER MAY VARY IN TYPE, LOCATION, ELEVATION, AND ENVIRONMENTAL AND ENGINEERING PROPERTIES BETWEEN POINTS OF EXPLORATION. VARIATIONS IN SUBSURFACE CONDITIONS SHOULD BE EXPECTED BETWEEN BORING LOCATIONS.

PROFILE LEGEND

N.T.S



LEGEND

LB-13 — LANGAN APPROXIMATE BORING LOCATION

RW-102-3 — CONNDOT APPROXIMATE BORING LOCATION

EXISTING FIBER OPTIC TRENCH LOCATION

PROPOSED FIBER OPTIC TRENCH LOCATION

LITHOLOGY LEGEND

ASPHALT, SUBBASE, TOPSOIL, FILL, SAND, GLACIAL TILL, WEATHERED ROCK, BEDROCK

VERTICAL SCALE IN FEET

HORIZONTAL SCALE IN FEET

LANGAN

550 Long Wharf Drive, New Haven, CT 06511
T: 203.562.5771 F: 203.786.8142 www.langan.com

NEW JERSEY NEWYORK CONNECTICUT PENNSYLVANIA
OHIO WASHINGTON, DC FLORIDA TEXAS CALIFORNIA
ABU DHABI ATHENS DOHA DUBAI ISTANBUL PANAMA LONDON

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. d/b/a Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Design Firm Registration Numbers:
Langan CT, Inc.
Langan Engineering, LLC
Michael Stoner, PE-Manager

FIBER OPTIC CABLE RELOCATION

BRIDGEWATER CONNECTICUT

PLAN AND PROFILE VIEW

DRAFT

1401[illegible]301
02/05/2016
1"=20'
PES LC
Drawing No.
9
X S ###

2COM GROUP LLC.

102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

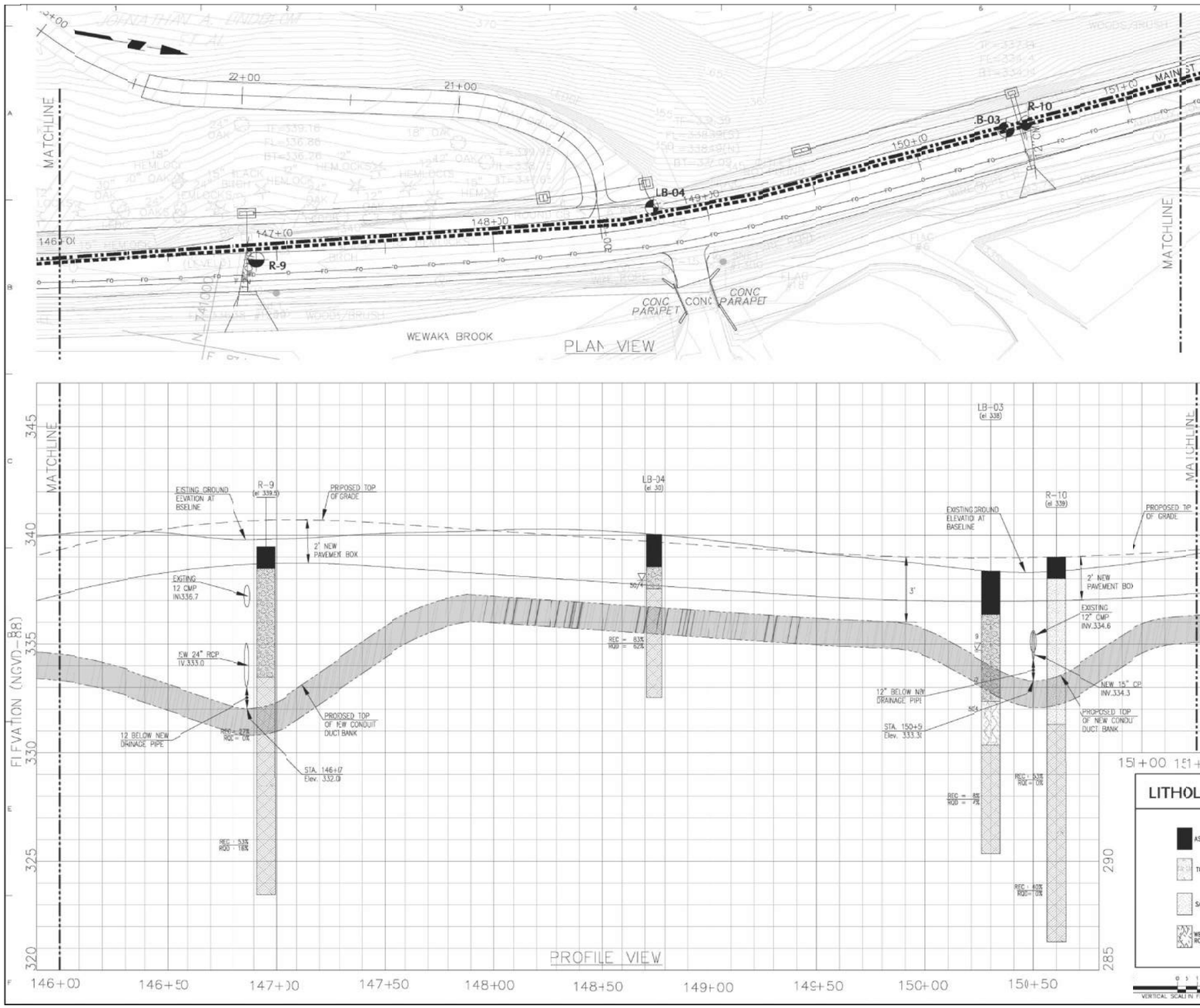
Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 47 OF 52

DRAWING NO. UTL-B47 SHEET NO. 03.310

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.

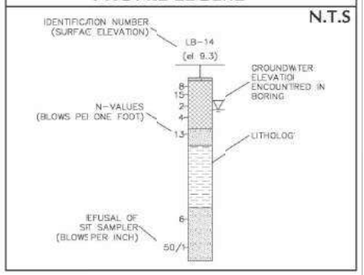


NOTES

1. LL BORING AND OBSERVATION WELL LOCIONS ARE APPROXIMATE.
2. LEVATIONS REFERENE NGVD-88.
3. XISTING CONDITIONS/INFORMATION TAKEN FROM TOPOGRAOHI AND BOUNDARY SRVEY TITLED SAFETY IMPROVEMENTS ON ROUTE 13," PREPARED BY THE STATE OF ONNECTICUT EPARTMENT OF TRASPORTATION (CONNDOT), AND DATED 30 OVEMBER 2015.
4. ASE MAPS OBTAINED FROM A SET OF DAWINGS TITLED "FIBR OPTIC PLACEMENT/RELOCATION, RIDGEWATER, CT", ATED 27 AUGUST 215 AND MOST RECNTLY REVISED ON 12 JANUARY 016, AND PREPARED BY 2COM GROUP LC.
5. ORINGS (RW-102-1 THROUGH RW-02-7) INFORMATIG OBTAINED FRO AVAILABLE EOTECHNICAL ENGINERING REPORT PREPARED BY CONNDOT, ATED SEPTEMBER 5 2013.
6. ORINGS (RW-8 THOUGH RW-11) INFRMATION OBTAINED FROM AVAILABLE EOTECHNICAL NGNEERING REPORTPREPARED BY CONNDOT, DATED SEPTEMER 28, 2015.
7. ORINGS (LB-01 THOUGH LB-17) PERDRMED BY SOILTESNG, INC. BETWEEN JANUARY 27 ND FEBRUARY 1, 218 UNDER THE FLL-TIME OBSERVATIN OF A FIELD ENNIEER FROM ANGAN.
8. ACKGROUND PLANS USED IN THIS DRAWIG ARE FOR REFERECE ONLY.
9. HIS PROFILE REPRSENTS A GENERALIZD SOIL CROSS SECTION INTERPRETED RDM WIDELY PACED BORINGS. OIL, BEDROCK, AN GROUNDWATER MBE VARY IN TYP, LOCATION, LEVATION, AND EVIRONMENTAL AND ENGINEERING PROERTES BETWEEN POINTS OF XPLORATION. VARIATINS IN SUBSURFACE CONDITONS SHOULD BE EXPECTED BETEEN BORING OCATIONS.

PROFIIE LEGEND

N.T.S



LEGEND

- LB-13 — LANGAN APPROXIMATE BORING LOCATION
- RW-102-3 — CONNDOT APPROXIMATE BORING LOCATION
- EXISTING FIBER OPIC TRENCH LOCATION
- PROPOSED FIBER IPTIC TRENCH LOCATION

LITHOLOGYLEGEND

- ASPHALT
- SUBBASE
- TOPSOIL
- FILL
- SAND
- GLACIAL TILL
- WEATHERED ROCK
- BEDROCK

VERTICAL SCALE IN FEET 0 1 2 — HORIZONTAL SCALE IN FEET 0 5 10 20

LANGAN

550 Long Wharf Drive, New Haven, CT 6511
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ABU DHABI ATHENS DHA DUBAI GERMANY PANAMA LONDON

Langan Engineering, Environmental, Surveying and Landscape Architecture, DPC, D.P.C.
Langan Engineering, Environmental, Surveying and Landscape Architecture, GPC
Design Firm Registration Numbers:
Langan Engineering and Environmental Services, D
Langan Treeline and Associates LLC
Langan Marchetype LLC
Langan Marchetype LLP
Langan Engineering, Environmental, Surveying and Landscape Architecture, P.C.

FIBER OPTIC CABLE RELOCATION

BRIDGEWATER CONNECTICUT

PLAN AND PROFILE VIEW

DRAFT

1401.07301
02/05/2016
1"=20'
RE LC
X
Drawing No.
10
6 ###

2COM GROUP LLC.

102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

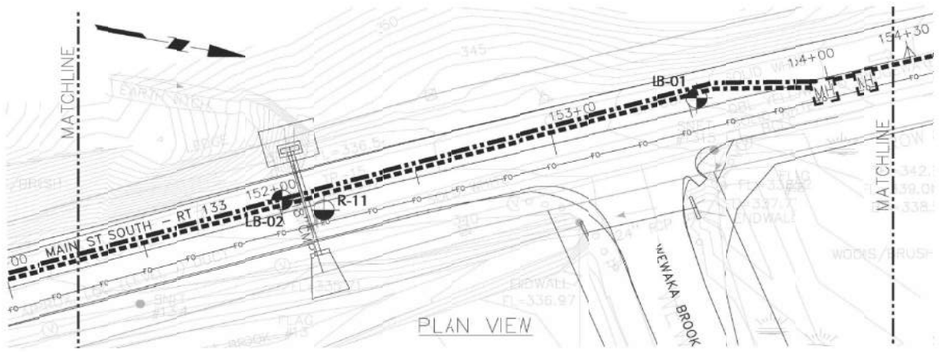
Level (3) COMMUNICATIONS

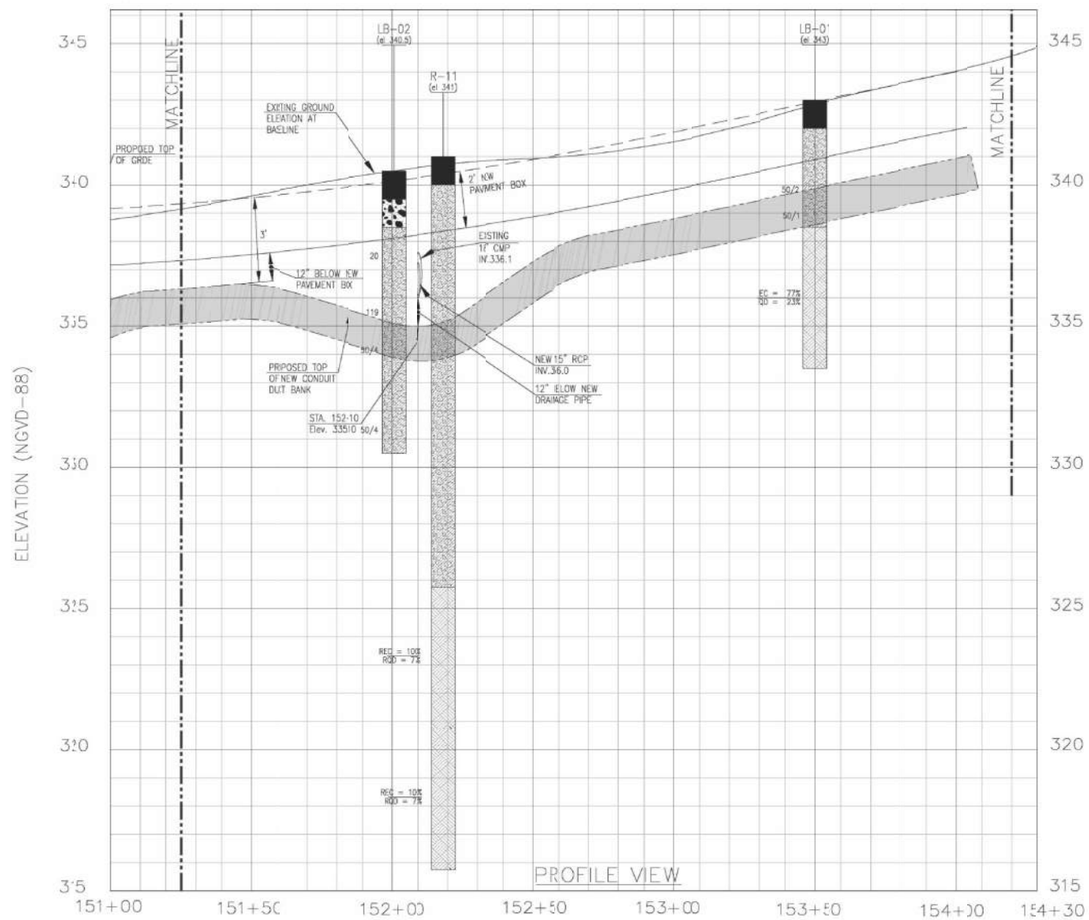
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 48 OF 52

DRAWING NO. UTL-B48 SHEET NO. 03.311

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



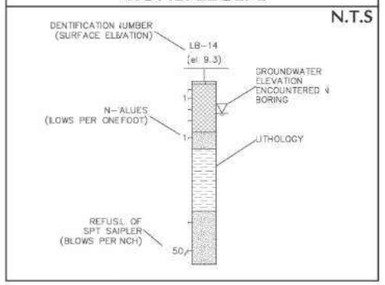


NOTES

1. ALL BORING AND OBSERVATION WELL LOCATINS ARE APPROXIMAT.
2. ELVATIONS REFERENCE NGVD-88.
3. EXITING CONDITIONS IFORMATION TAKEN ROM TOPOGRAOHIC NO BOUNDARY SURVY TITLED "SFETY IMPROVEMENT ON ROUTE 133 PREPARED BY HE STATE OF CONECTICUT DEARTMENT OF TRANSORTATION (CONNDOT AND DATED 30 NEMBER 2015.
4. BAC MAPS OBTAINED ROM A SET OF DRAWINGS TITLED "FIBER OPTIC PLACEMENT/RLOCATION, BRIGEWATER, CT", DATO 27 AUGUST 201 AND MOST RECEYLY REVISED ON 21 JANUARY 206, AND PREPARED Y 2COM GROUP LLC
5. BOINGS (RW-102-1 THROUGH RW-10-7) INFORMATION OBTAINED FROM AVAILABLE GETECHNICAL ENGINEERING REPORT PREPARD BY CONNDOT, DAED SEPTEMBER 5, 213.
6. BOINGS (RW-8 THROGH RW-11) INFORMATION OBTAINED FOM AVAILABLE GETECHNICAL EMNEERING REPORT PEPARED BY CONNDOT, DATED SEPTEMBEI 28, 2015.
7. BOINGS (LB-01 THROGH LB-17) PERFOMED BY SOILTESTIN, INC. BETWEEN JANUARY 27 AN FEBRUARY 1, 205 UNDER THE FUL-TIME OBSERVATION OF A FIELD ENGINER FROM LAGAN.
8. BAKGROUND PLANS UED IN THIS DRAWINGARE FOR REFERENC ONLY.
9. TH PROFILE REPRESBTS A GENERALIZED SOIL CROSS SECTIN INTERPRETED FRM WIDELY SPCED BORINGS. SO, BEDROCK, AND IROUNDWATER MAYE VARY IN TYPE, LOCATION, ELVATION, AND ENVIONMENTAL AND NGINEERING PROPRTIES BETWEEN POINTS OF EXLORATION. VARIATION IN SUBSURFACE ONDITIONS SHOULD E EXPECTED BETWEN BORING LOATIONS.

PROFILE LEGEND

N.T.S



LEGEND

LB13 — LANGAN APROXIMATE BORING LOATION

RW-102-3 — CONNDOT APROXIMATE BORING LOATION

EXISTING FIER OPTIC TRENCH LOATION

PROPOSED IBER OPTIC TRENCH LOATION

LTHOLOGY LEGEND

SPHALT, SUBBASE, TOPSOIL, ILL, SAND, GLACIAL TILL, EATHERED OCK, BEDROCK

VERTICAL SCALE IN FEET: 2 0 .5 1 2

HORIZOTAL SCALE IN FEE: 20 0 5 10 20

LANGAN

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. d/b/a Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, D.P.C. Langan Treaty, D.P.C. Langan Manufacturing LLC Langan Marketing LLC (Trading Street as Langan)

FIBER OPTIC CABLE RELOCATION

BRIDGEWATER — CONNECTICUT

PLAN AND PROFILE VIEW

DRAFT

1401/1301
02/05/2016
1"=20'
RED LC
X

Drawing No.
11
7 7

2COM GROUP LLC.

102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
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5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level 3 COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY — SHEET: 49 OF 52

DRAWING NO. UTL-B49 SHEET NO. 03.312

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Sheet 1 of 1

Log of Boring L3-01
Station Number 153+50 Station offset 5'10" West
Structure type Foute 133

Project: Level (3) Fiber Optic Cable Relocation	Project No.: 140137301
Location: Bridgewater, Connecticut	Elevation and Datum: Approx. el. 343 (NAVD-88)
Drilling Company: SoilTesting, Inc.	Date Started: 1/27/16 / Date Finished: 1/27/16
Drilling Equipment: Truck-mounted Diedrich D-50 Drill Rig	Completion Depth: 9.5 ft / Rock Depth: 4.5 ft
Size and Type of Bit: 2 7/8" NX Double Tube Core Barrel	Number of Samples: Disturbed 3 / Undisturbed 0 / Core 1
Casing Diameter (in): 4 1/4" ID Hollow Stem Auger / Casing Depth (ft): 4.5	Water Level (ft): First 4 / Completion N/A / 24 HR. N/A
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Matt DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Faiyha Qweider
Sampler Hammer: Safety / Weight (lbs): 140 / Drop (in): 30	

Elev. (ft)	Sample Description	Coring (min)	Depth	Sample Data	Remarks
343.0	12" ASPHALT PAVEMENT		0		Auger through asphalt pavement to 1'
342.0	Black and gray f-c SAND, some fine gravel, trace silt, trace asphalt [SUBBASE] (dry)		1	S-1 SS, Rec. 3, 9-11	Auger from 1' to 4'
341.0	Brown f-c SAND, some silt, trace fine gravel [TILL] (moist)		2–3	S-2 SS, Rec. 6, 8-14-50/2"; N = 50/2"	
338.5	NO RECOVERY		4	S-3 SS, Rec. 0, 50/1"; N = 50/1"	Auger from 4' to 4.5'. Heavy rig chatter from 4' to 4.5'
	Gray Schist [BEDROCK]	2:30, 2:20, 2:15, 2:40, 3:40	4.5–9.5	C-1 NX, REC=46"/60" =77%, RQD=14"/60" =23%	Auger refusal @ 4.5'. Core 4.5' to 9.5'
333.5	End of boring @ 9.5'				Borehole backfilled w/ auger cuttings & portland cement, & patched w/ asphalt cold patch upon completion

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Sheet 1 of 1

Log of Boring LB-02
Station Number 152+00 StationOffset 7' West
Structure type Route 133

Project: Level (3) Fiber Optic Cable Relocation	Project No.: 140137301
Location: Bridgewater, Connecticut	Elevation and Datum: Approx. el. 340.5 (NAVD-88)
Drilling Company: SoilTesting, Inc.	Date Started: 1/27/16 / Date Finished: 1/27/16
Drilling Equipment: Truck-mounted Diedrich D-50 Drill Rig	Completion Depth: 10 ft / Rock Depth: N/E
Size and Type of Bit: 4 1/4" ID Hollow Stem Auger	Number of Samples: Disturbed 5 / Undisturbed 0 / Core 0
Casing Diameter (in): 4 1/4" ID Hollow Stem Auger / Casing Depth (ft): 10	Water Level (ft): First 4 / Completion N/A / 24 HR. N/A
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Matt DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Faiyha Qweider
Sampler Hammer: Safety / Weight (lbs): 40 / Drop (in): 30	

Elev. (ft)	Sample Description	Depth	Sample Data	Remarks
340.5	12 ASPHALT PAVEMENT	0		Auger through asphalt pavement to 1'
339.5	Black and gray f-c SAND, some fine gravel, trace silt, trace asphalt [SUBBASE] (dry)	1	S-1 SS, Rec. 6, 10-24	Auger from 1' to 4'
338.5	Brown f-c SAND, some silt, trace fine gravel [T.L] (wet)	2–3	S-2 SS, Rec. 8, 24-10-10-10; N = 20	Heavy rig chatter from 3.5' to 4
	Brown f-c SAND, some silt, some fine gravel [T.L] (wet)	4–5	S-3 SS, Rec. 10, 22-80-32-37; N = 119	Auger from 4' to 8'. Medium rig chatter from 4' to 7
	Brown f-m SAND, some silt, trace fine gravel [T.L] (wet)	6	S-4 SS, Rec. 3, 50/4"; N = 50/4"	Heavy rig chatter from 7' to 8
	Brown f-c SAND, some silt, some weathered rock fragments [T.L] (wet)	8	S-5 SS, Rec. 3, 22-50/4"; N = 50/4"	Auger grinding @ 7.5'
330.5	End of boring @ 10'	10		Auger to 10'. Borehole backfilled w/ auger cuttings & portland cement, & patched w/ asphalt cold patch upon completion

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Sheet 1 of 1

Log of Boring LB-03
Station Number 150+50 StationOffset 9'9" West
Structure type Route 133

Project: Level (3) Fiber Optic Cable Relocation	Project No.: 140137301
Location: Bridgewater, Connecticut	Elevation and Datum: Approx. el. 338 (NAVD-88)
Drilling Company: SoilTesting, Inc.	Date Started: 1/27/16 / Date Finished: 1/27/16
Drilling Equipment: Truck-mounted Diedrich D-50 Drill Rig	Completion Depth: 13 ft / Rock Depth: 8 ft
Size and Type of Bit: 2 7/8" NX Double Tube Core Barrel	Number of Samples: Disturbed 3 / Undisturbed 0 / Core 1
Casing Diameter (in): 4 1/4" ID Hollow Stem Auger / Casing Depth (ft): 8	Water Level (ft): First 3.5 / Completion N/A / 24 HR. N/A
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Matt DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Faiyha Qweider
Sampler Hammer: Safety / Weight (lbs): 40 / Drop (in): 30	

Elev. (ft)	Sample Description	Coring (min)	Depth	Sample Data	Remarks
338.0	20 ASPHALT PAVEMENT		0		Auger through pavement to 2" (4" below bottom of pavement)
336.0	Light brown f-m SAND, some silt, trace fine gravel [T.L] (moist)		2–3	S-1 SS, Rec. 14, 7-5-4-4; N = 9	Auger from 2' to 6'. Little to medium rig chatter from 2' to 6'
	Brown f-c SAND, some silt, some weathered rock fragments [T.L] (wet)		4–5	S-2 SS, Rec. 12, 4-14-18-100/5"; N = 32	
332.0	Gray fine GRAVEL, trace f-c sand, trace silt [WEATHERED ROCK]		6	S-3 SS, Rec. 2, 50/4"; N = 50/4"	Auger from 6' to 8'. Heavy rig chatter from 6' to 8
330.0	Gray schist [BEDROCK]	3:15, 4:30, 4:15, 3:45, 3:15	8–13	C-1 NX, REC=53"/60" =88%, RQD=28"/60" =47%	Auger refusal @ 8'. Core from 8' to 13'
325.0	End of boring @ 13'		13		Borehole backfilled w/ auger cuttings & portland cement, & patched w/ asphalt cold patch upon completion

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Sheet 1 of 1

Log of Boring LB-04
Station Number 148+75 StationOffset 8'3" West
Structure type Route 133

Project: Level (3) Fiber Optic Cable Relocation	Project No.: 140137301
Location: Bridgewater, Connecticut	Elevation and Datum: Approx. el. 340 (NAVD-88)
Drilling Company: SoilTesting, Inc.	Date Started: 1/27/16 / Date Finished: 1/27/16
Drilling Equipment: Truck-mounted Diedrich D-50 Drill Rig	Completion Depth: 7.5 ft / Rock Depth: 2.5 ft
Size and Type of Bit: 2 7/8" NX Double Tube Core Barrel	Number of Samples: Disturbed 2 / Undisturbed 0 / Core 1
Casing Diameter (in): 4 1/4" ID Hollow Stem Auger / Casing Depth (ft): 2.5	Water Level (ft): First 2 / Completion N/A / 24 HR. N/A
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Matt DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Faiyha Qweider
Sampler Hammer: Safety / Weight (lbs): 40 / Drop (in): 30	

Elev. (ft)	Sample Description	Coring (min)	Depth	Sample Data	Remarks
340.0	18 ASPHALT PAVEMENT		0		Auger through pavement to 1"
338.5	No Recovery		2	S-1 SS, Rec. 0, 20	Piece of gravel stuck in spoon tip in S-1
337.5	Dark brown f-c SAND, some fine gravel, some silt [T.L] (wet)		2	S-2 SS, Rec. 3, 50/4"; N = 50/4"	Heavy rig chatter from 2' to 4. Auger refusal @ 2.5'
	Gray schist [BEDROCK]	2:30, 2:15, 3:30, 2:45, 4:30	2.5–7.5	C-1 NX, REC=50"/60" =83%, RQD=37"/60" =62%	Core from 2.5' to 7.5'
332.5	End of boring @ 7.5'				Borehole backfilled w/ auger cuttings & portland cement, & patched w/ asphalt patch upon completion

DRAFT

LANGAN

Sheet 1 of 1

Log of Boring LB-05
Station Number 145+50 StationOffset 6' West
Structure type Route 133

Project: Level (3) Fiber Optic Cable Relocation	Project No.: 140137301
Location: Bridgewater, Connecticut	Elevation and Datum: Approx. el. 339.5 (NAVD-88)
Drilling Company: SoilTesting, Inc.	Date Started: 1/28/16 / Date Finished: 1/28/16
Drilling Equipment: Truck-mounted Diedrich D-50 Drill Rig	Completion Depth: 9 ft / Rock Depth: 4 ft
Size and Type of Bit: 2 7/8" NX Double Tube Core Barrel	Number of Samples: Disturbed 2 / Undisturbed 0 / Core 1
Casing Diameter (in): 4 1/4" ID Hollow Stem Auger / Casing Depth (ft): 4	Water Level (ft): First 2.5 / Completion N/A / 24 HR. N/A
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Brock DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Faiyha Qweider
Sampler Hammer: Safety / Weight (lbs): 40 / Drop (in): 30	

Elev. (ft)	Sample Description	Coring (min)	Depth	Sample Data	Remarks
339.5	18 ASPHALT PAVEMENT		0		Auger through pavement to 1" (2" below bottom of pavement)
338.0	Dark gray f-c SAND, some fine gravel, trace silt [SUBBASE] (dry)		1.5–2	S-1 SS, Rec. 2, 25	Auger from 1.5' to 4'
337.5	Brown f-c SAND, some silt, trace fine gravel, trace mica [T.L] (wet)		2–3	S-2 SS, Rec. 8, 15-32-50/1"; N = 50/1"	Medium rig chatter @ 3'. Heavy rig chatter from 3' to 4
335.5	Gray schist [BEDROCK]	3:15, 2:45, 2:50, 2:45, 4:00	4–9	C-1 NX, REC=52"/60" =87%, RQD=18"/60" =30%	Auger refusal @ 4'
330.5	End of boring @ 9'				Borehole backfilled w/ auger cuttings & portland cement, & patched w/ asphalt cold patch upon completion

DRAFT

LANGAN

Sheet 1 of 1

Log of Boring LB-06
Station Number 143+50 StationOffset 4'10" West
Structure type Route 133

Project: Level (3) Fiber Optic Cable Relocation	Project No.: 140137301
Location: Bridgewater, Connecticut	Elevation and Datum: Approx. el. 326 (NAVD-88)
Drilling Company: SoilTesting, Inc.	Date Started: 1/28/16 / Date Finished: 1/28/16
Drilling Equipment: Truck-mounted Diedrich D-50 Drill Rig	Completion Depth: 8.5 ft / Rock Depth: 3.5 ft
Size and Type of Bit: 2 7/8" NX Double Tube Core Barrel	Number of Samples: Disturbed 2 / Undisturbed 0 / Core 1
Casing Diameter (in): 4 1/4" ID Hollow Stem Auger / Casing Depth (ft): 3.5	Water Level (ft): First 2 / Completion N/A / 24 HR. N/A
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Brock DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Faiyha Qweider
Sampler Hammer: Safety / Weight (lbs): 40 / Drop (in): 30	

Elev. (ft)	Sample Description	Coring (min)	Depth	Sample Data	Remarks
326.0	12 ASPHALT PAVEMENT		0		Auger through pavement to 1
325.0	Brown f-c SAND, some silt, some fine gravel [T.L] (wet)		1–3	S-1 SS, Rec. 14, 15-15-18-20; N = 33	Auger from 1' to 3'. Auger grinding @ 2.5'
322.5	No Recovery		3	S-2 SS, Rec. 0, 50/1"; N = 50/1"	Auger from 3' to 3.5'. Heavy rig chatter from 3' to 3.5'
	Gray Schist [BEDROCK]	2:00, 1:30, 1:50, 3:20, 2:50	3.5–8.5	C-1 NX, REC=51"/60" =85%, RQD=27"/60" =45%	Auger refusal @ 3.5'. Core from 3.5' to 8.5'
317.5	End of boring @ 8.5'				Borehole backfilled w/ auger cuttings & portland cement, & patched w/ asphalt cold patch upon completion

2COM GROUP LLC.
102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

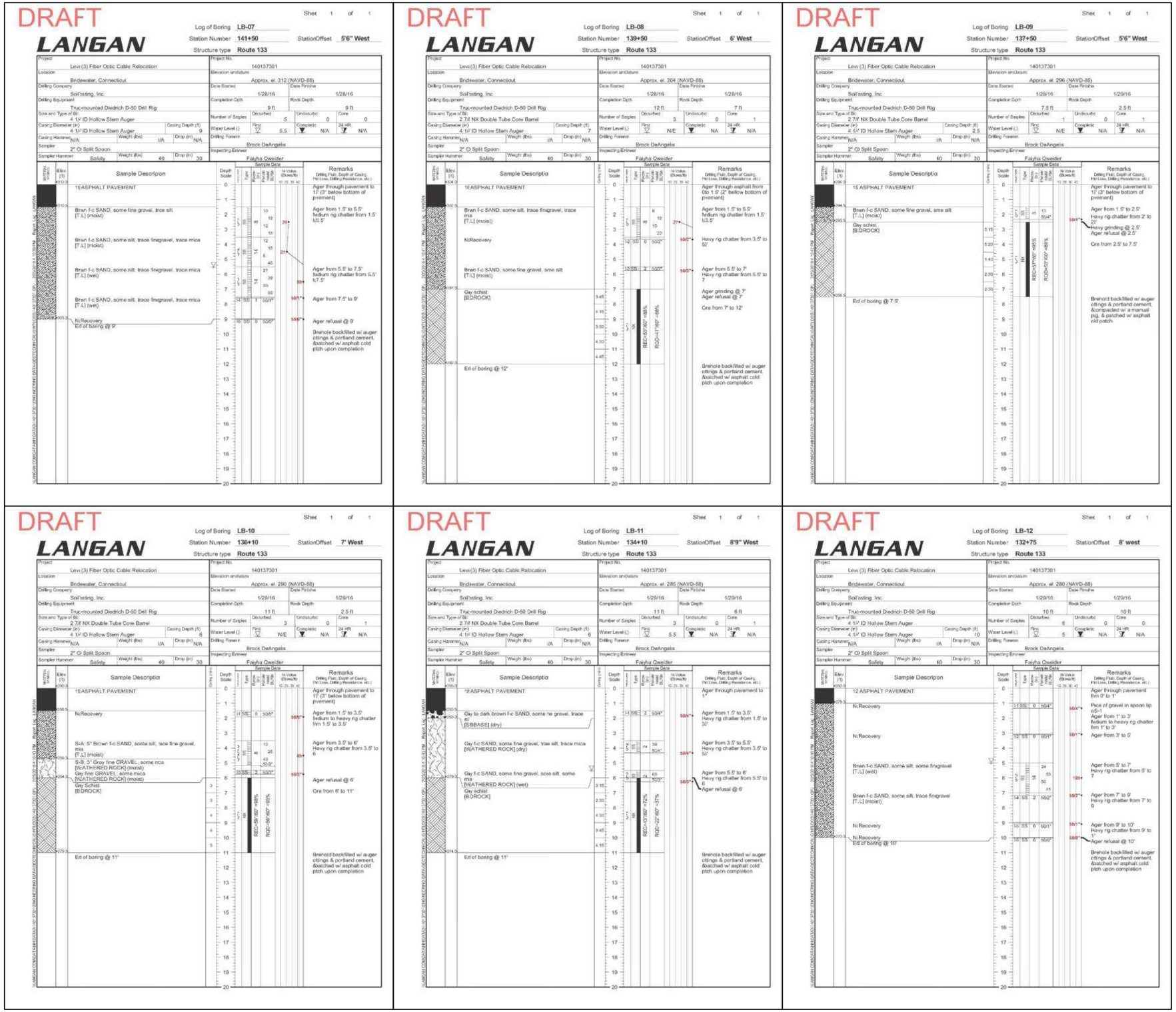
NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY

WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.



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3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

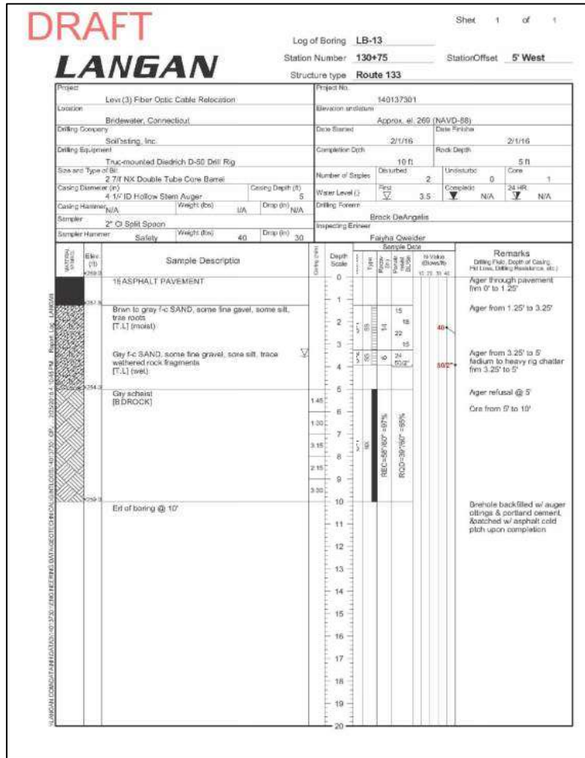
Level(3) COMMUNICATIONS

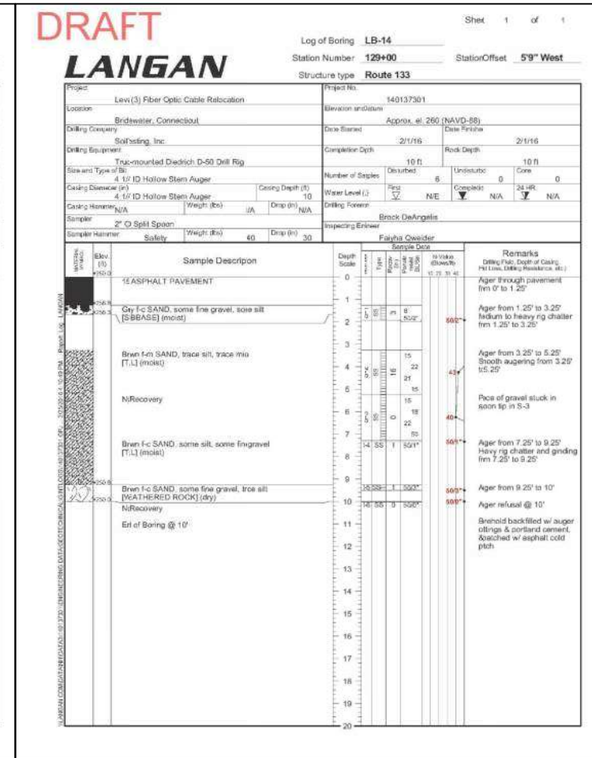
LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

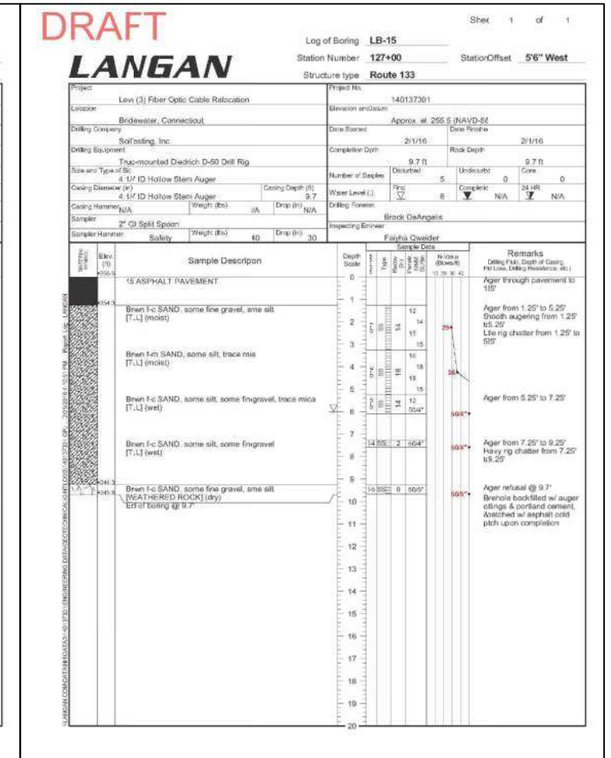
CONFIDENTIAL/PROPRIETARY SHEET: 51 OF 52

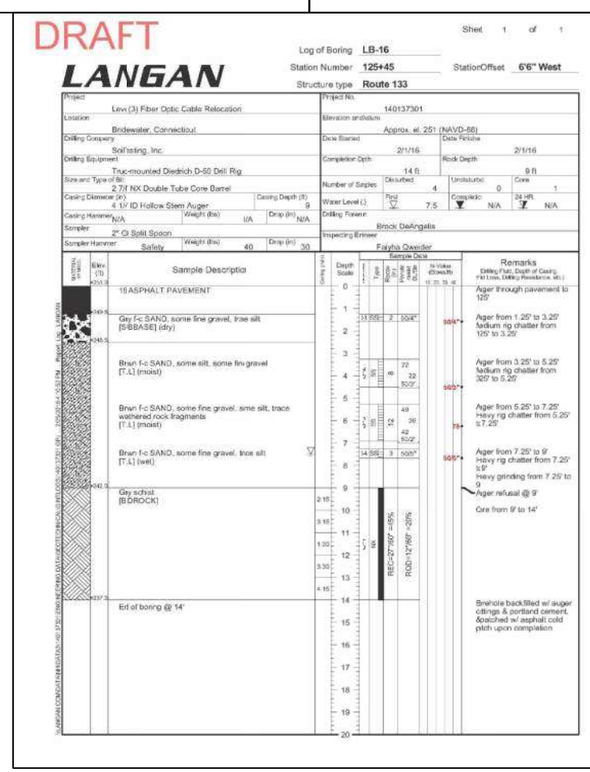
DRAWING NO. UTL-B51 SHEET NO. 03.314

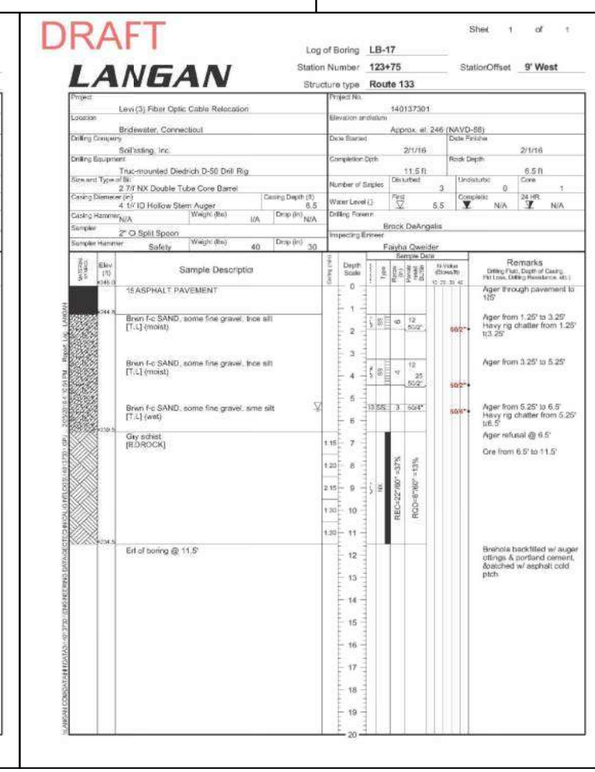
WORK DONE BY OTHERS. FOR INFORMATIONAL PURPOSES ONLY.











2COM GROUP LLC.

102 Dorsa Avenue Livingston, NJ 07039
973-287-4004 Fax: 973-287-4014
www.2comgroup.com

NO.	DATE	ENG DESIGN	DRAFTING	COMMENT
6	03/02/16	RFB	OG	REVISION #5
5	02/25/16	RFB	OG	REVISION #4
4	01/22/16	RFB	OG	REVISION #3
3	12/30/15	RH	VL	REVISION #2
2	12/23/15	RH	OG	REVISION #1
1	08/27/15	RFB	OG	ORIGINAL

Level(3) COMMUNICATIONS

LEVEL 3 ENGINEER: STEPHEN BECKER
ENGINEERING FIRM: 2COM GROUP, LLC - A107.023.01
PROJECT NUMBER: TBD
LOCATION: FIBER OPTIC CABLE PLACEMENT/RELOCATION BRIDGEWATER, CT
DRAWING NAME: Bridgewater Rt.133 FOC Relocation, CT - Rev.5.dwg

CONFIDENTIAL/PROPRIETARY SHEET: 52 OF 52

DRAWING NO. UTL-B52 SHEET NO. 03.315

04 - STRUCTURE

INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
S-1	STRUCTURE SUBSET INDEX OF DRAWINGS		
S-2	BORING LOG 1		
S-3	BORING LOG 2		
S-4	GENERAL PLAN		
S-5	SECTION I		
S-6	SECTION II		
S-7	SECTION III		
S-8	SECTION IV		
S-9	SECTION V		
S-10	SECTION VI		
S-11	DECORATIVE FENCE DETAILS		

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER: RABIH M. BARAKAT

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/27/2016

DESIGNER/DRAFTER: **MM**

CHECKED BY: **KP**

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_INDEX_OF_DRAWINGS.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **STRUCTURE SUBSET INDEX OF DRAWINGS**

PROJECT NO. **16-98**

DRAWING NO. **S-1**

SHEET NO. **04.01**

Connecticut DOT Boring Report

Driller: J. Doner		Hole No.: RW-102-1	
Inspector: R. Pion	Town: Bridgewater	Stat./Offset: 127+18/3 ft Lft	
Engineer: R. Pion	Project No.: 0016-0098	Northing: 739122	
Start Date: 5-20-08	Route No.: 133	Easting: 835226	
Finish Date: 5-20-08	Bridge No.:	Surface Elevation: 255.5	
Project Description: Roadway Realignment			
Casing Size/Type: 3 inch HW	Sampler Type/Size: 1 3/8 in ID	Core Barrel Type: DT NQ	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @3 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE		255
	S-1	16 14 21 75	24	14		GLACIAL TILL	Gray completely weathered rock	
5	S-2	40 100	6	4			Brown c-f GRAVEL, and f-c SAND, trace silt	250
10	S-3	12 20 45 50	20	7			Brown c-f GRAVEL, and f-c SAND, trace silt	245
						BEDROCK		
15	C-1		60	36	0		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 1,4,1,2,3	240
20	C-2		60	60	23		Gray medium grained, laminated, intensely fractured slightly weathered strong schist Core times in min/ft: 3,2,3,2,2	235
							END OF BORING 22ft	

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 12ft Rock: 10ft	NOTES: Pavement Structure Consists of 12 inches of bituminous pavement on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 2		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: J. Doner		Hole No.: RW-102-2	
Inspector: R. Pion	Town: Bridgewater	Stat./Offset: 128+50/8ft Rt	
Engineer: R. Pion	Project No.: 0016-0098	Northing: 739252	
Start Date: 5-19-08	Route No.: 133	Easting: 835205	
Finish Date: 5-20-08	Bridge No.:	Surface Elevation: 258.5	
Project Description: Roadway Realignment			
Casing Size/Type: 3 inch HW	Sampler Type/Size: 1 3/8 in ID	Core Barrel Type: DT NQ	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @6 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE		
	S-1	17 13 19 15	24	14		GLACIAL TILL	Brown f-c SAND, and f-c gravel trace silt	255
5	S-2	14 91 55 68	24	16			Brown f-c SAND, and f-c gravel trace silt	250
10	S-3	52 108	12	8			Brown f-c SAND, and f-c gravel trace silt	
	C-1		18	12	0	BEDROCK	Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 3,2	245
	S-4	100	6	4			Gray completely weathered rock	
15	C-2		60	60	12		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 2,3,5,5,6	240
20	C-3		30	30	72		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 5,5,4	
							END OF BORING 22.5ft	235

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 12.5ft Rock: 10ft	NOTES: Pavement Structure Consists of 12 inches of bituminous pavement on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 4 No. of Core Runs: 3		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: J. Doner		Hole No.: RW-102-3	
Inspector: R. Pion	Town: Bridgewater	Stat./Offset: 130+11/2 ft Lft	
Engineer: R. Pion	Project No.: 0016-0098	Northing: 739410	
Start Date: 5-19-08	Route No.: 133	Easting: 835186	
Finish Date: 5-19-08	Bridge No.:	Surface Elevation: 264.5	
Project Description: Roadway Realignment			
Casing Size/Type: 3 inch HW	Sampler Type/Size: 1 3/8 in ID	Core Barrel Type: DT NQ	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @2.5 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE		
	S-1	20 34 20 50	24	24		GLACIAL TILL	Gray Brown c-f GRAVEL, and f-c SAND, trace silt	
						BEDROCK		260
5	C-1		60	30	18		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 5,3,3,5,6	
10	C-2		60	58	48		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 4,3,4,4,3	255
							END OF BORING 14ft	250
15								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 4ft Rock: 10ft	NOTES: Pavement Structure Consists of 12 inches of bituminous pavement on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 1 No. of Core Runs: 2		SM-001-M REV. 1/02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 2/27/2016

DESIGNER/DRAFTER: MM
CHECKED BY: KP
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_SOIL_BORINGS_1.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: BORING LOG 1

PROJECT NO. 16-98
DRAWING NO. S-2
SHEET NO. 04.02

Connecticut DOT Boring Report

Driller: J. Doner		Hole No.: RW-102-4	
Inspector: R. Pion	Town: Bridgewater	Stat./Offset: 131+53/2 ft Rt	
Engineer: R. Pion	Project No.: 0016-0098	Northing: 739551	
Start Date: 5-15-08	Route No.: 133	Easting: 835173	
Finish Date: 5-19-08	Bridge No.:	Surface Elevation: 273.4	
Project Description: Roadway Realignment			
Casing Size/Type: 3 inch HW	Sampler Type/Size: 1 3/8 in ID	Core Barrel Type: DT NQ	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @1.5 after 24+ hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE		
	S-1	11 20 27 50	19	12		GLACIAL TILL	Gray Brown c-f GRAVEL, and c-f sand, trace silt	270
5	S-2	71 85 114	18	10			Gray completely weathered rock	265
10	S-3	100	6	4		WEATHERED BEDROCK	Gray completely weathered rock	260
15	C-1		60	54	8	BEDROCK	Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 3,3,3,4,4	255
20	C-2		51	48	0		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 3,2,2,3,5	
							END OF BORING 21.2ft	

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 12ft Rock: 9.2ft	NOTES: Pavement Structure Consists of 12 inches of bituminous pavement on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 2		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: J. Doner		Hole No.: RW-102-5	
Inspector: R. Pion	Town: Bridgewater	Stat./Offset: 132+61/11 ft Lft	
Engineer: R. Pion	Project No.: 0016-0098	Northing: 739660	
Start Date: 5-15-08	Route No.: 133	Easting: 835145	
Finish Date: 5-15-08	Bridge No.:	Surface Elevation: 286.4	
Project Description: Roadway Realignment			
Casing Size/Type: 3 inch HW	Sampler Type/Size: 1 3/8 in ID	Core Barrel Type: DT NQ	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @3 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						TOPSOIL		
	S-1	3 6 7 8	24	14		MISC. FILL	Gray Brown c-f GRAVEL, and c-f SAND, trace silt	285
						GLACIAL TILL		
5	S-2	100	3	3			Gray c-f GRAVEL, and c-f SAND, little silt	
						BEDROCK		280
10	C-1		60	30	0		Gray medium grained, laminated, intensely fractured slightly weathered strong schist Core times in min/ft: 5,5,4,4,6	275
15	C-2		60	60	73		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 6,5,6,5,6	
							END OF BORING 15.5ft	270

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 5.5ft Rock: 10ft	NOTES:	Sheet 1 of 1
No. of Soil Samples: 2 No. of Core Runs: 2		SM-001-M REV. 1/02

Connecticut DOT Boring Report

Driller: A. Conant		Hole No.: RW-102-7	
Inspector: G. Arzt	Town: Bridgewater	Stat./Offset: 125+75/8' Lft	
Engineer: R. Pion	Project No.: 0016-0098	Northing: 738981	
Start Date: 4-4-13	Route No.: 133	Easting: 835251	
Finish Date: 4-4-13	Bridge No.:	Surface Elevation: 251.4	
Project Description: Roadway Realignment			
Casing Size/Type: 4 inch HW	Sampler Type/Size: 1 3/8 in ID	Core Barrel Type: DT NQ	
Hammer Wt.: Fall: in.	Hammer Wt.: 140 Fall: 30in.		
Groundwater Observations: @8 after 0 hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						PAVEMENT STRUCTURE/ GLACIAL TILL		
	S-1	14 23 21 15	24	18			Brown c-f SAND, and c-f GRAVEL, trace silt	250
5						BEDROCK		245
10	C-1		60	36	21		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 7,3,2,3,5	240
15	C-2		42	17	0		Gray medium grained, laminated, highly fractured slightly weathered strong schist Core times in min/ft: 3,5,3,3,5	
							END OF BORING 15ft	235

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 6.5ft Rock: 7.75ft	NOTES: Pavement Structure Consists of 12 inches of bituminous pavement on 12 inches of subbase	Sheet 1 of 1
No. of Soil Samples: 1 No. of Core Runs: 2		SM-001-M REV. 1/02

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 2/27/2016

DESIGNER/DRAFTER: MM
CHECKED BY: KP
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_SOIL_BORINGS_2.dgn

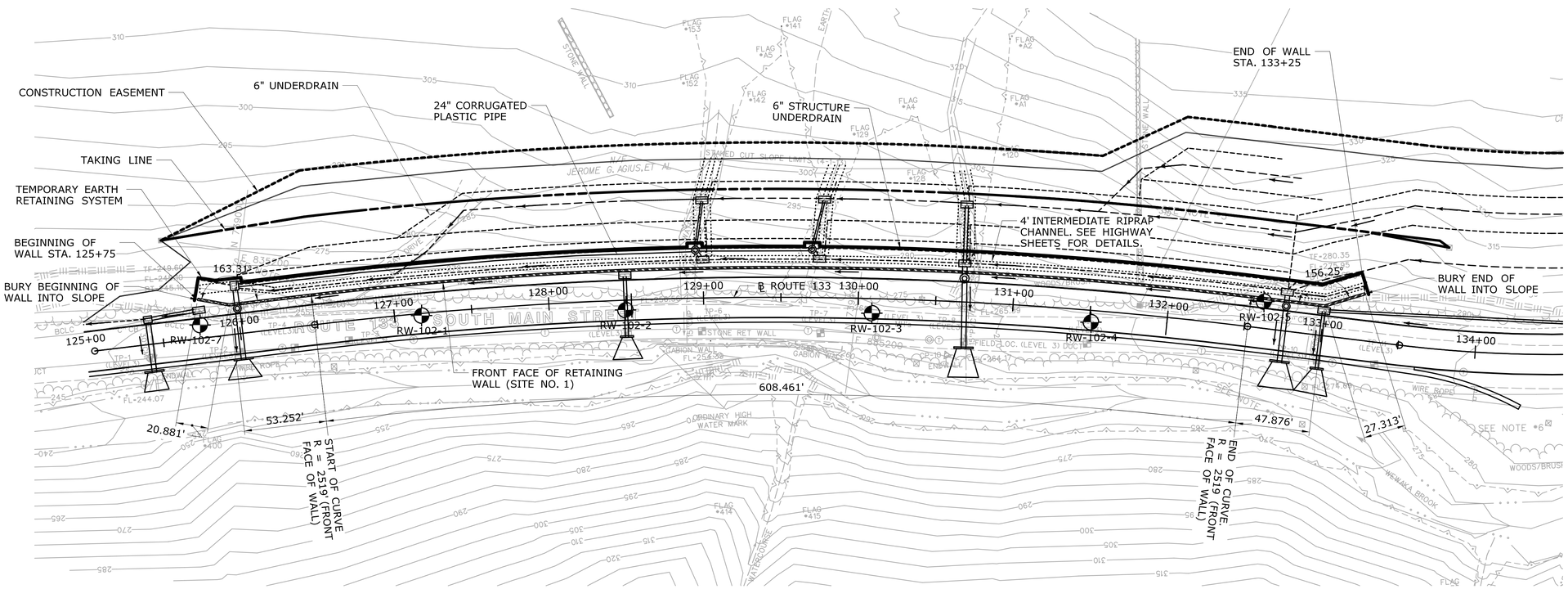
SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

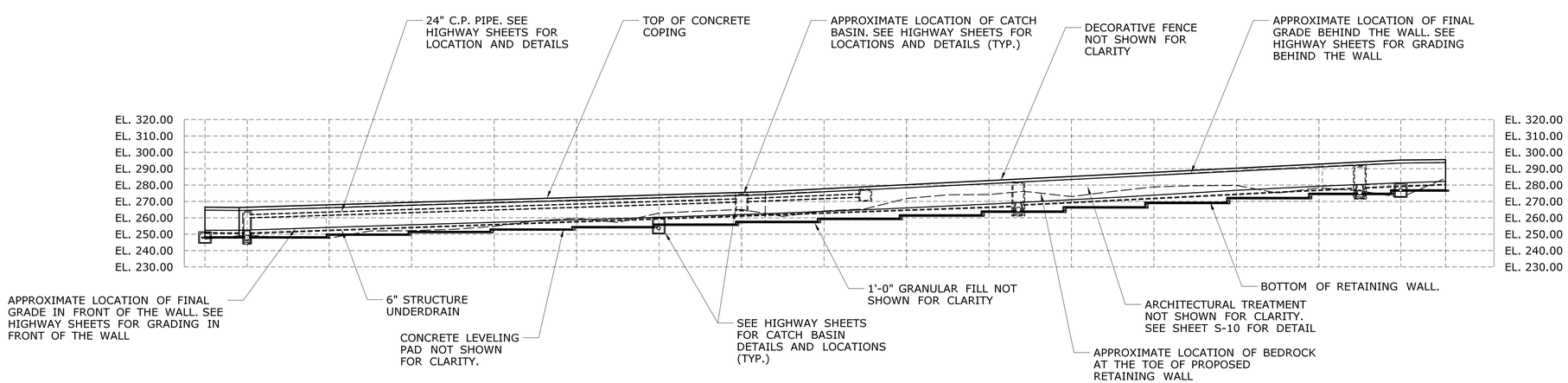
DRAWING TITLE: BORING LOG 2

PROJECT NO. 16-98
DRAWING NO. S-3
SHEET NO. 04.03



GENERAL PLAN

SCALE: 1" = 40'



DEVELOPED ELEVATION VIEW

SCALE: 1" = 40'

GENERAL NOTES

1. SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATION DATED JULY 2015, AND SPECIAL PROVISIONS.

2. DESIGN SPECIFICATIONS: FOR RETAINING WALL (SITE NO. 1) - 2002 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH THE LATEST INTERIM AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL 2003.

3. ALLOWABLE DESIGN STRESS:
CLASS "A" CONCRETE F'c = 3,300 PSI
CLASS "F" CONCRETE F'c = 4,400 PSI
REINFORCING ASTM A615, GRADE 60, Fy = 60 KSI

4. RETAINING WALL (SITE NO. 1): CONCEPTUAL DETAILS HAVE BEEN PROVIDED TO SHOW THE BASIC COMPONENTS, DIMENSIONS AND LIMITS OF THE RETAINING WALL. THE DETAILS DO NOT PERTAIN TO ANY PARTICULAR PROPRIETARY WALL.

5. THE CONTRACTOR SHALL SELECT, DESIGN AND CONSTRUCT THE FOLLOWING RETAINING WALL APPROVED FOR THIS PROJECT AND LISTED IN AND IN ACCORDANCE WITH THE SPECIAL PROVISION "RETAINING WALL (SITE NO. 1)".

PREFABRICATED MODULAR WALLS:
T-WALL RETAINING WALL SYSTEM

6. THE FOLLOWING DESIGN PARAMETERS SHALL BE USED FOR THE DESIGN OF THE RETAINING WALL (SITE NO. 1):

- THE MAXIMUM ALLOWABLE BEARING PRESSURE = 2.0 TSF

7. A FRICTION ANGLE OF 34 DEGREES FOR THE GRANULAR FILL FOR THE EVALUATION OF SLIDING SHALL BE USED.

8. LIVE LOAD SURCHARGE UNIFORM EARTH PRESSURE = 250 PSF

9. THE MINIMUM FLUID PRESSURE = 33 PCF PER LINEAR FOOT OF WALL.

10. THE FRONT FACE OF THE WALL SHALL BE VERTICAL

11. THE CONTRACTOR SHALL INSTALL A TEMPORARY EARTH RETAINING SYSTEM TO RETAIN EXCAVATION AS REQUIRED TO MEET OSHA REGULATIONS. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING ASSOCIATED WITH SAME SHALL BE INCLUDED IN THE LUMP SUM COST OF THE "RETAINING WALL (SITE NO. 1)".

12. REINFORCING IN CONCRETE COPING TO HAVE 2" COVER EXCEPT WHERE SHOWN OTHERWISE.

13. THE CONTRACTOR SHALL DESIGN, DETAIL AND CONSTRUCT THE WALL TO ACCOMMODATE CATCH BASINS, 24" C.P. PIPE AND THE UNDERDRAIN PIPES THAT ARE ADJACENT TO THE RETAINING WALL AS WELL AS THE RC PIPE PROJECTING THROUGH THE WALL. THE WORK INVOLVED SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "RETAINING WALL (SITE NO. 1)".

14. RETAINING WALL ARCHITECTURAL TREATMENT: RETAINING WALL (SITE NO. 1) SHALL HAVE A DRY STACK PATTEN AND THE COLOR SHALL MATCH THE COLOR OF THE EXISTING ROCK OUTCROPS ON PROJECT SITE. THE ARCHITECTURAL TREATMENT SHALL BE INCLUDED IN THE LUMP SUM COST OF THE "RETAINING WALL (SITE NO. 1)".

15. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THE LUMP SUM PAY LIMIT SHOWN ON S-10 SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE OF "RETAINING WALL (SITE NO. 1)".

16. TRAFFIC: THE RETAINING WALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS "MAINTENANCE AND PROTECTION OF TRAFFIC" AND "PROSECUTION AND PROGRESS".

QUANTITIES

ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION - ROCK	C.Y.	4396
RETAINING WALL (SITE NO. 1)	L.S.	L.S.
DECORATIVE FENCE	L.F.	756

DESCRIPTION OF WORK

1.) INSTALL TEMPORARY EARTH RETAINING SYSTEM. TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "RETAINING WALL (SITE NO. 1)"
2.) INSTALL PROPRIETARY WALL
3.) CONSTRUCT CONCRETE COPING
4.) INSTALL DECORATIVE FENCE
5.) FINISH ARCHITECTURAL TREATMENT ON WALL FACE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: MM
CHECKED BY: KP
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\SB_16-98_GENERAL_PLAN.dgn

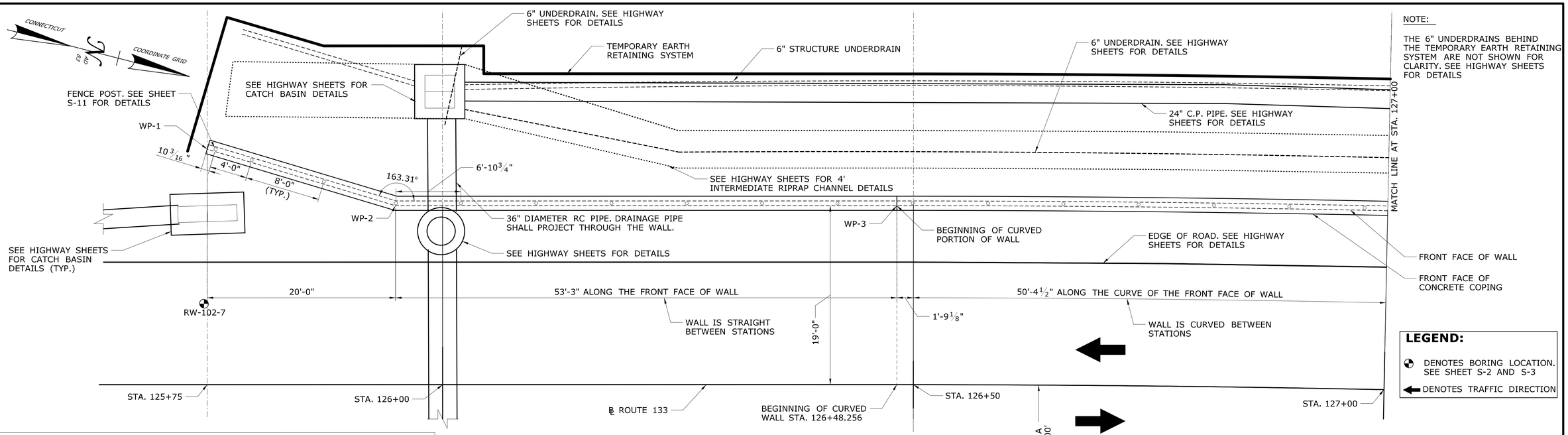
SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENT ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: GENERAL PLAN

PROJECT NO. 16-98
DRAWING NO. S-4
SHEET NO. 04.04



NOTE:

THE 6" UNDERDRAINS BEHIND THE TEMPORARY EARTH RETAINING SYSTEM ARE NOT SHOWN FOR CLARITY. SEE HIGHWAY SHEETS FOR DETAILS

LEGEND:

- DENOTES BORING LOCATION. SEE SHEET S-2 AND S-3
- DENOTES TRAFFIC DIRECTION

GENERAL PLAN - WALL SECTION I

SCALE: 3/16" = 1'-0"

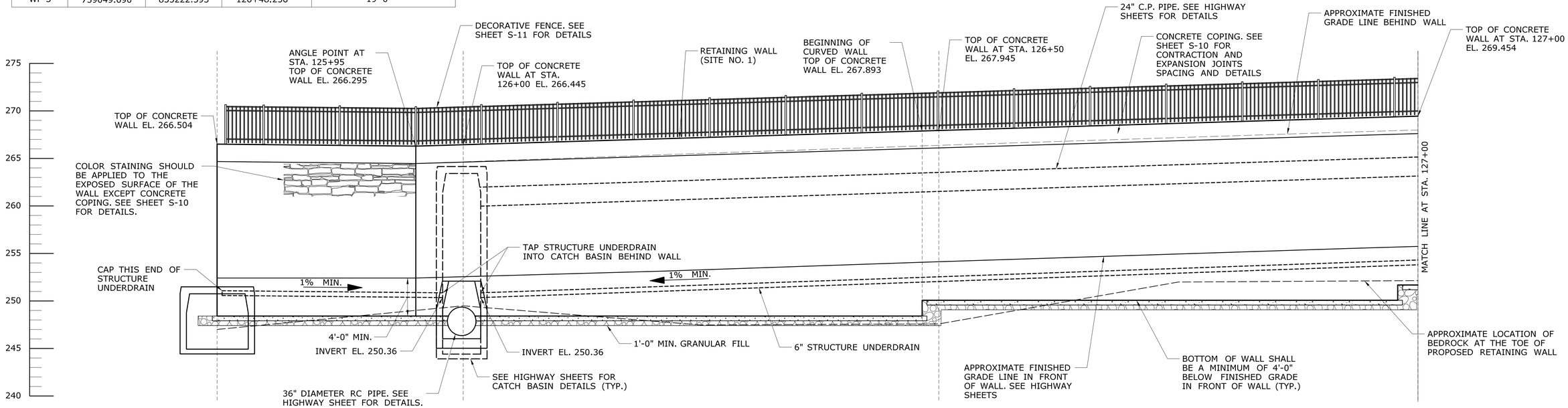
RETAINING WALL WORKING POINTS

WORKING POINT	NORTHING	EASTING	EQUIVALENT STA.	OFFSET FROM BASE LINE TO FRONT FACE OF WALL (FT)
WP-1	738977.252	835235.027	125+75	25'-0"
WP-2	738998.115	835235.856	125+95	19'-0"
WP-3	739049.690	835222.593	126+48.256	19'-0"

CURVE DATA

CURVE	BEGIN	END	RADIUS (FT)	DELTA	T (FT)	L (FT)
A	WP-3	WP-5	2500	13° 50'23"	303.412	603.872

NOTE: SEE DRAWING NO. S-9 FOR WP-5



DEVELOPED ELEVATION- WALL SECTION I

SCALE: 3/16" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 2/27/2016

DESIGNER/DRAFTER: MM
CHECKED BY: KP
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_T-WALL_SECTION_I.dgn

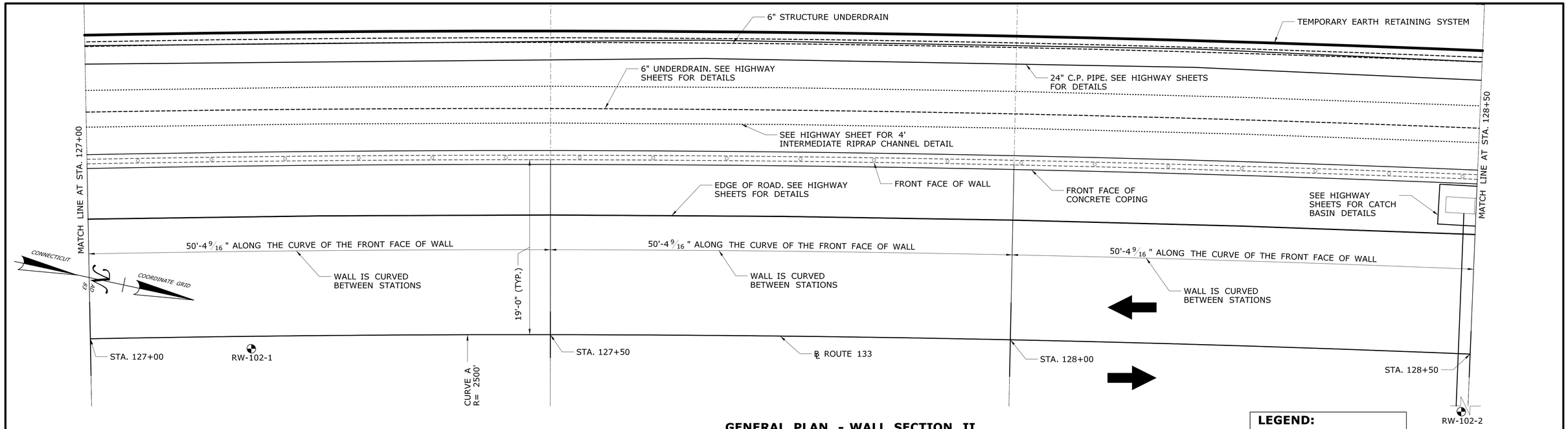
SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENT ON ROUTE 133

TOWN: BRIDGEWATER

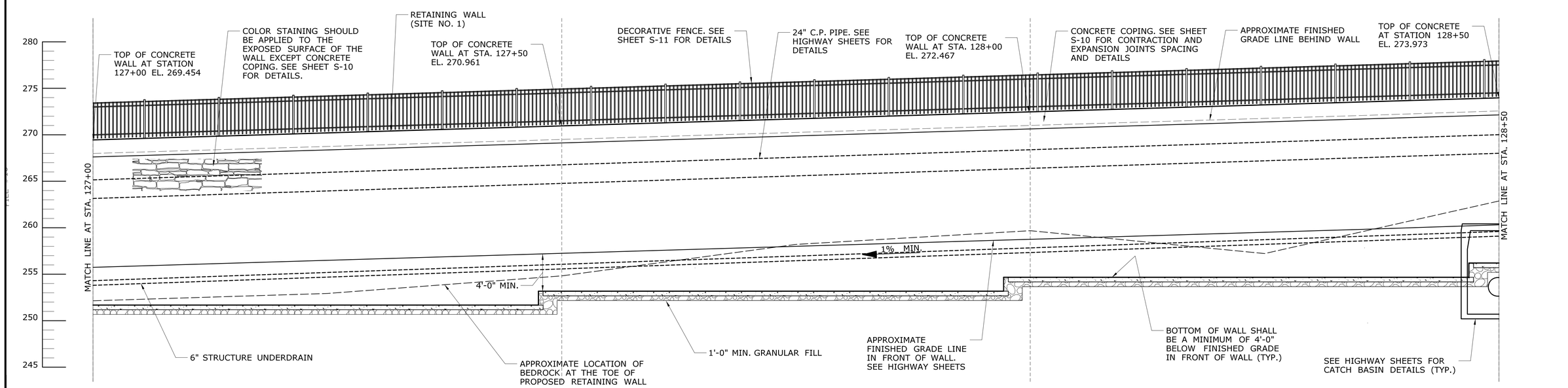
DRAWING TITLE: SECTION I

PROJECT NO. 16-98
DRAWING NO. S-5
SHEET NO. 04.05



GENERAL PLAN - WALL SECTION II

SCALE: 3/16" = 1'-0"



DEVELOPED ELEVATION - WALL SECTION II

SCALE: 3/16" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/27/2016

DESIGNER/DRAFTER: MM

CHECKED BY: KP

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_T-WALL_SECTION_II.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENT ON ROUTE 133

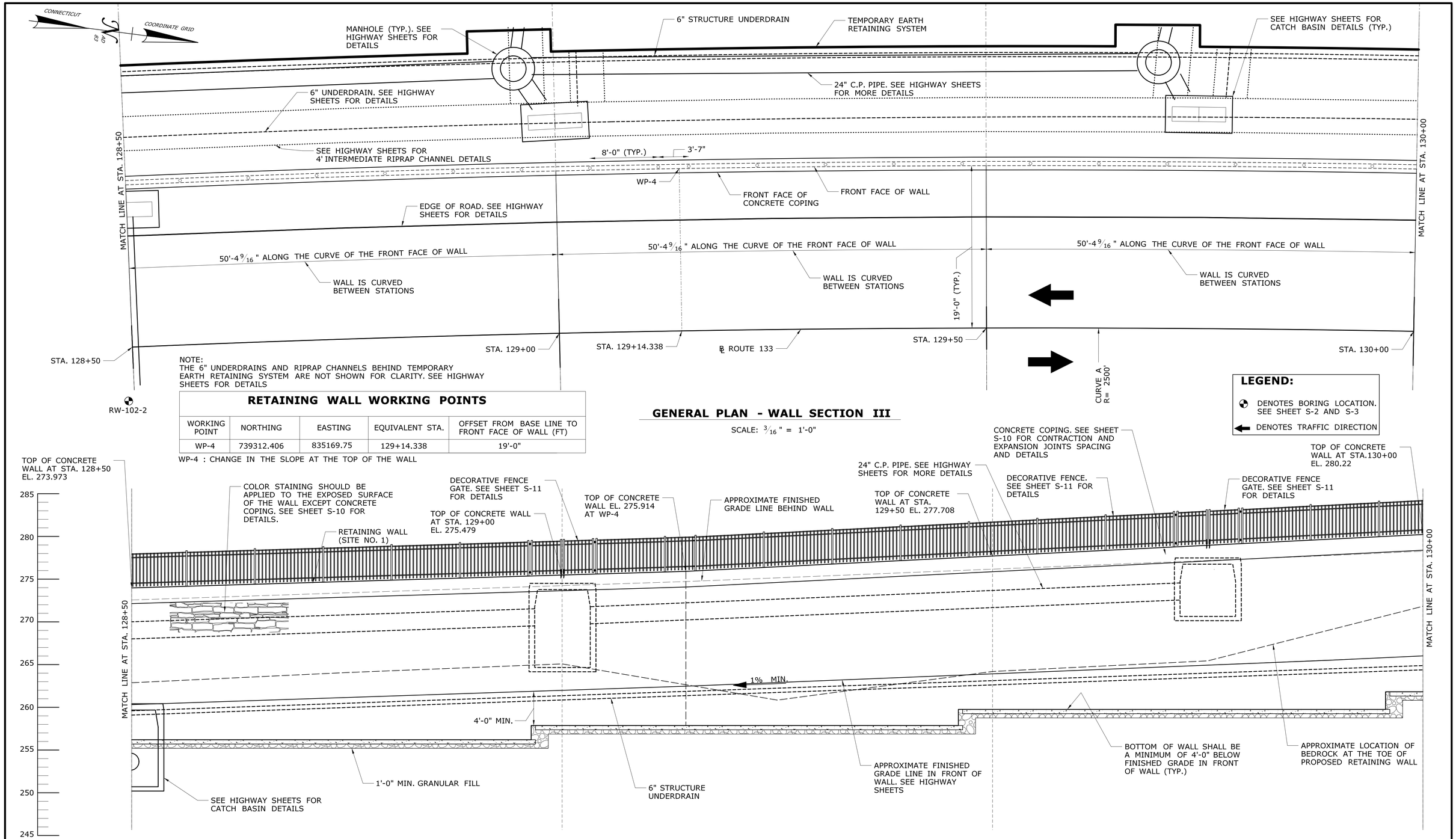
TOWN: BRIDGEWATER

DRAWING TITLE: SECTION II

PROJECT NO. 16-98

DRAWING NO. S-6

SHEET NO. 04.06



NOTE:
THE 6" UNDERDRAINS AND RIPRAP CHANNELS BEHIND TEMPORARY EARTH RETAINING SYSTEM ARE NOT SHOWN FOR CLARITY. SEE HIGHWAY SHEETS FOR DETAILS

RETAINING WALL WORKING POINTS

WORKING POINT	NORTHING	EASTING	EQUIVALENT STA.	OFFSET FROM BASE LINE TO FRONT FACE OF WALL (FT)
WP-4	739312.406	835169.75	129+14.338	19'-0"

WP-4 : CHANGE IN THE SLOPE AT THE TOP OF THE WALL

GENERAL PLAN - WALL SECTION III

SCALE: 3/16" = 1'-0"

DEVELOPED ELEVATION - WALL SECTION III

SCALE: 3/16" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/27/2016

DESIGNER/DRAFTER: MM
CHECKED BY: KP
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_T-WALL_SECTION_III.dgn

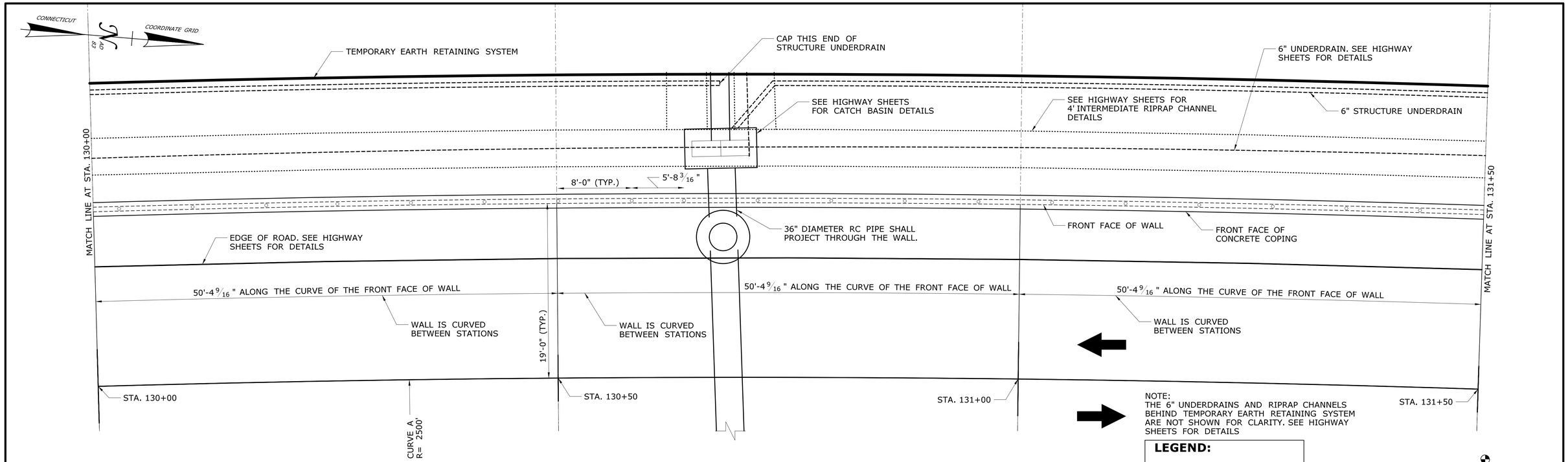
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENT ON ROUTE 133

TOWN: BRIDGEWATER

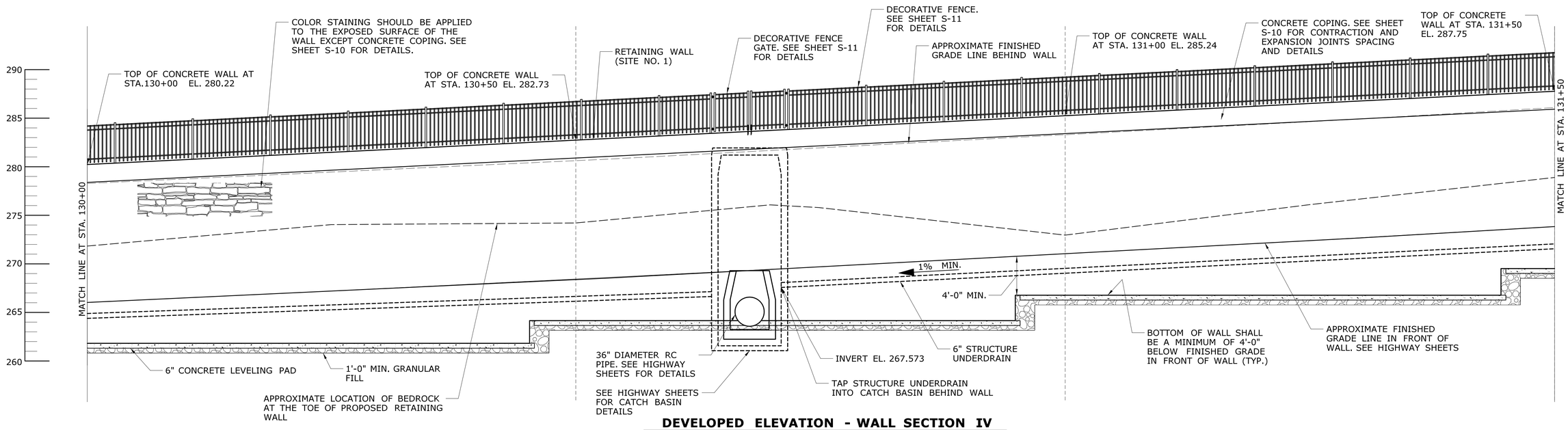
DRAWING TITLE: SECTION III

PROJECT NO. 16-98
DRAWING NO. S-7
SHEET NO. 04.07



GENERAL PLAN - WALL SECTION IV

SCALE: 3/16 " = 1'-0"



DEVELOPED ELEVATION - WALL SECTION IV

SCALE: 3/16 " = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 2/27/2016

DESIGNER/DRAFTER: MM

CHECKED BY: KP

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_T-WALL_SECTION_IV.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENT ON ROUTE 133

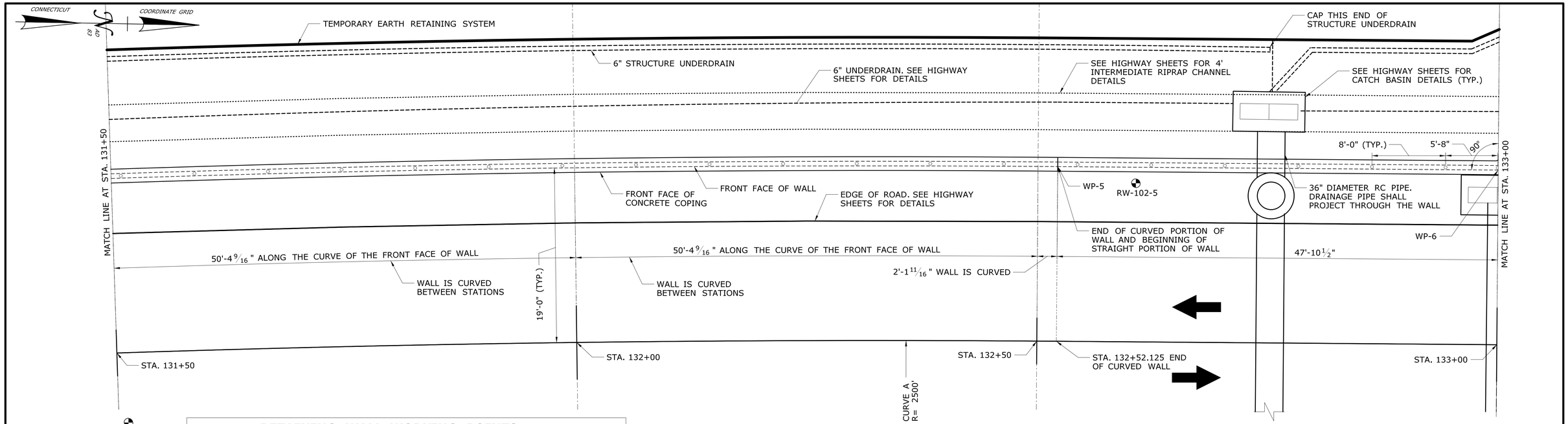
TOWN: BRIDGEWATER

DRAWING TITLE: SECTION IV

PROJECT NO. 16-98

DRAWING NO. S-8

SHEET NO. 04.08



RETAINING WALL WORKING POINTS

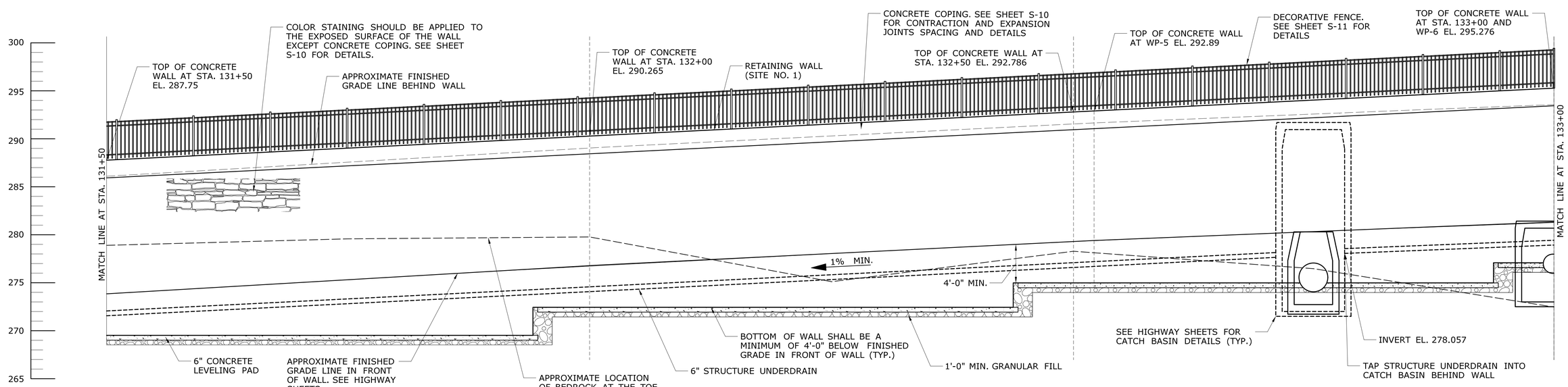
WORKING POINT	NORTHING	EASTING	EQUIVALENT STA.	OFFSET FROM BASE LINE TO FRONT FACE OF WALL (FT)
WP-5	739651.479	835143.343	132+52.125	19'-0"
WP-6	739699.349	835142.859	133+00	19'-0"

GENERAL PLAN - WALL SECTION V

SCALE: 3/16" = 1'-0"

LEGEND:

- DENOTES BORING LOCATION. SEE SHEET S-2 AND S-3
- DENOTES TRAFFIC DIRECTION



DEVELOPED ELEVATION - WALL SECTION V

SCALE: 3/16" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 2/27/2016

DESIGNER/DRAFTER: MM

CHECKED BY: KP

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_T-WALL_SECTION_V.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENT ON ROUTE 133

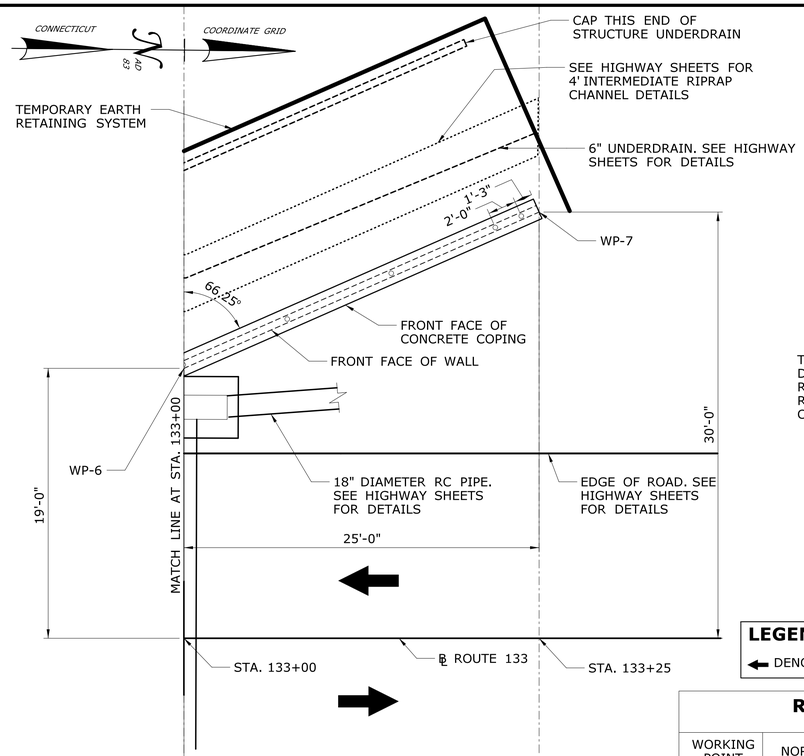
TOWN: BRIDGEWATER

DRAWING TITLE: SECTION V

PROJECT NO. 16-98

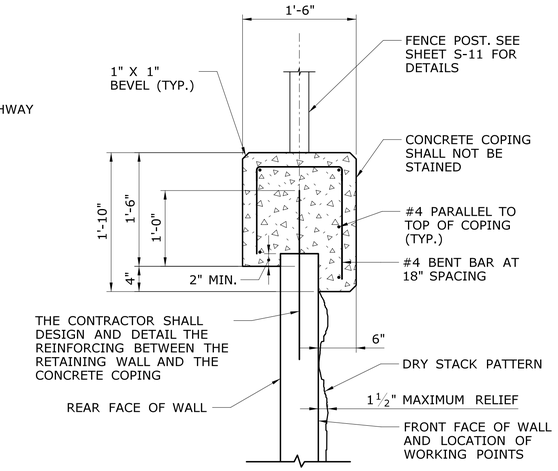
DRAWING NO. S-9

SHEET NO. 04.09



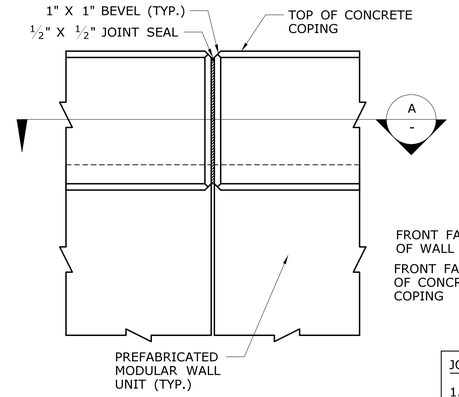
GENERAL PLAN - WALL SECTION VI

SCALE: 3/16" = 1'-0"



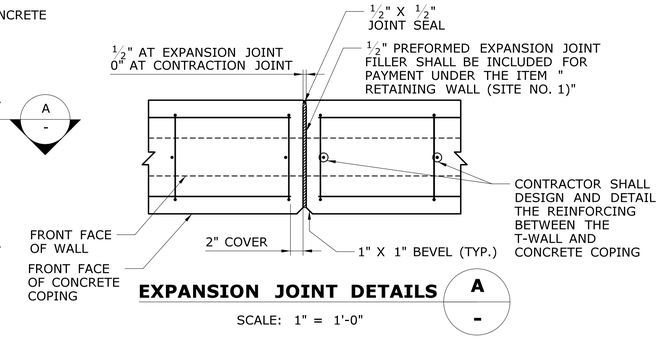
CAST-IN-PLACE CONCRETE COPING

SCALE: 1" = 1'-0"



CONCRETE COPING JOINT DETAIL

SCALE: 1" = 1'-0"



EXPANSION JOINT DETAILS

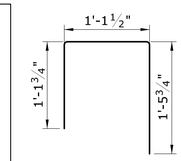
SCALE: 1" = 1'-0"

JOINT NOTES:

1.) JOINT SEAL SHALL EXTEND FROM THE BOTTOM OF THE COPING TO THE TOP.

2.) NO REINFORCEMENT SHALL PASS THROUGH EXPANSION OR CONTRACTION JOINTS

3.) CONTRACTION AND EXPANSION JOINT SPACING REQUIREMENT:
- A.) SPACING BETWEEN CONTRACTION JOINTS SHALL NOT EXCEED 30'
- B.) SPACING BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 90'
- C.) CONTRACTION AND EXPANSION JOINTS SHALL BE AT A MINIMUM OF 10' FROM EDGE OF CATCH BASIN
- D.) CONTRACTION AND EXPANSION JOINTS SHALL LINE UP WITH THE VERTICAL JOINT OF THE WALL PANELS



#4 BENT BAR

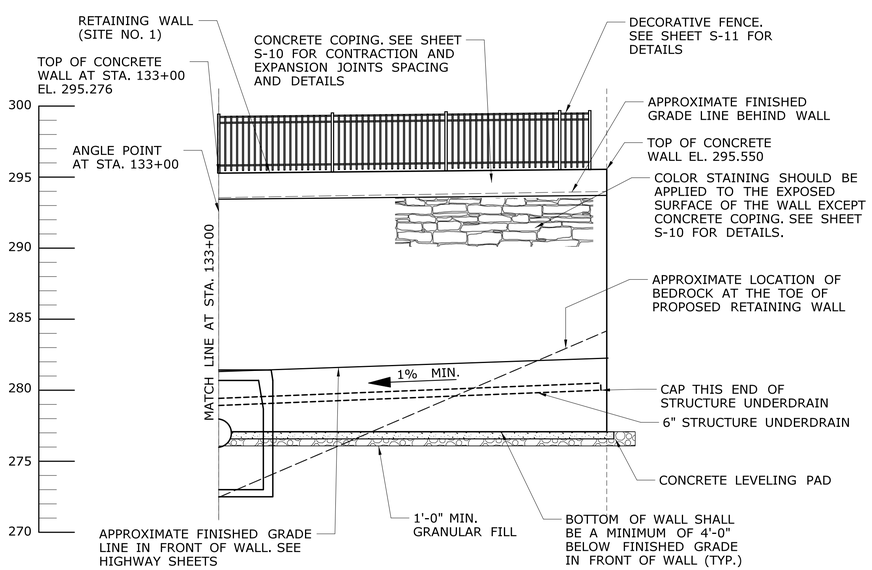
SCALE: 1" = 1'-0"

LEGEND:

← DENOTES TRAFFIC DIRECTION

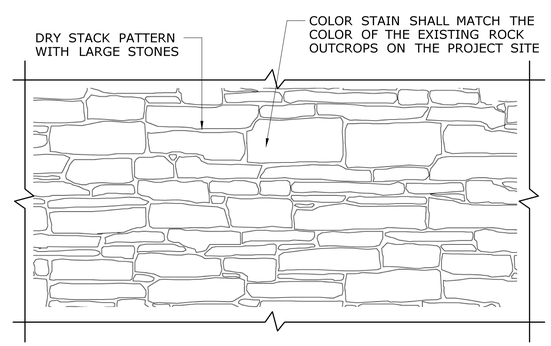
RETAINING WALL WORKING POINTS

WORKING POINT	NORTHING	EASTING	EQUIVALENT STA.	OFFSET FROM BASE LINE TO FRONT FACE OF WALL (FT)
WP-6	739699.349	835142.859	133+00	19'-0"
WP-7	739724.281	835131.588	133+25	30'-0"



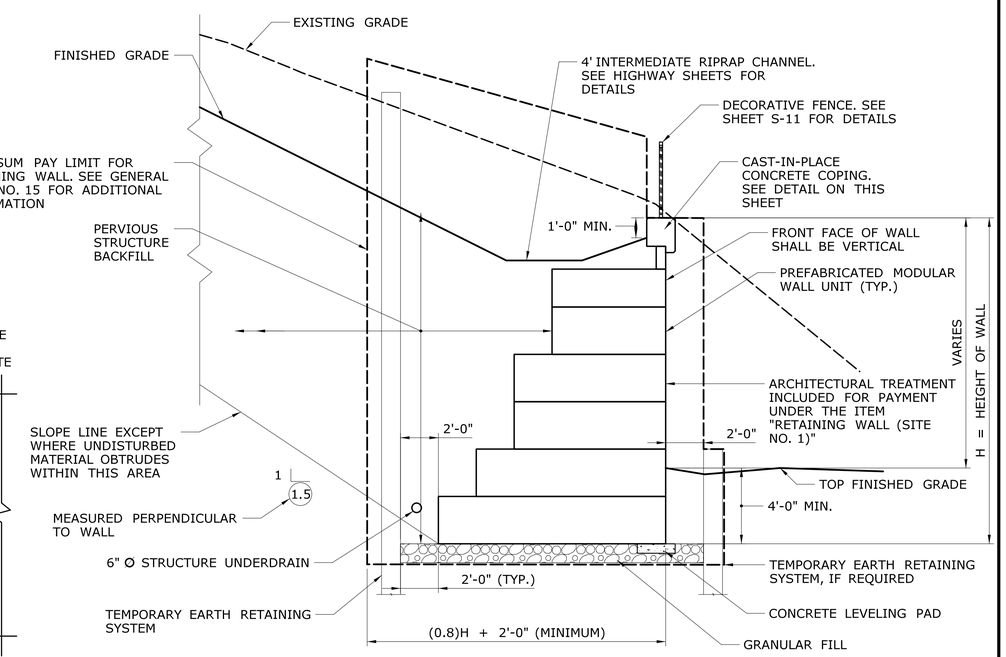
DEVELOPED ELEVATION - WALL SECTION VI

SCALE: 3/16" = 1'-0"



DRY STACK PATTERN

N.T.S.



TYPICAL RETAINING WALL SECTION

SCALE: 1/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 2/27/2016

DESIGNER/DRAFTER: MM

CHECKED BY: KP

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_T-WALL_SECTION_VI.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE: SAFETY IMPROVEMENT ON ROUTE 133

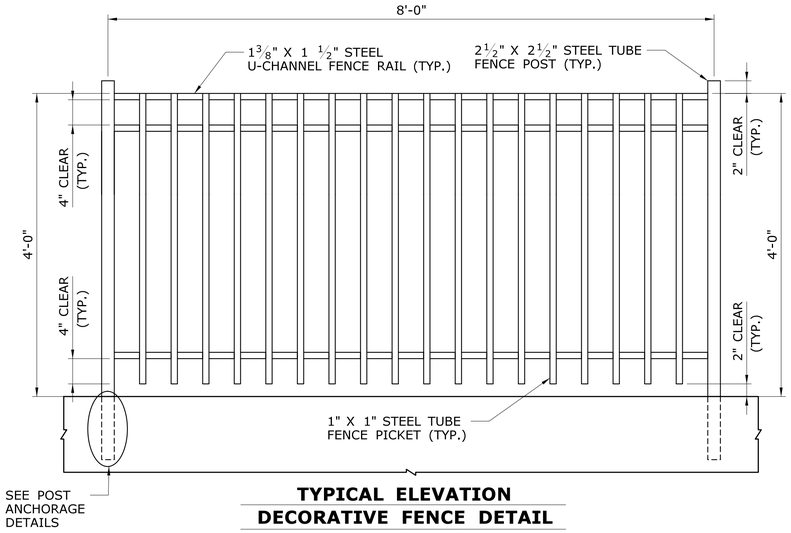
TOWN: BRIDGEWATER

DRAWING TITLE: SECTION VI

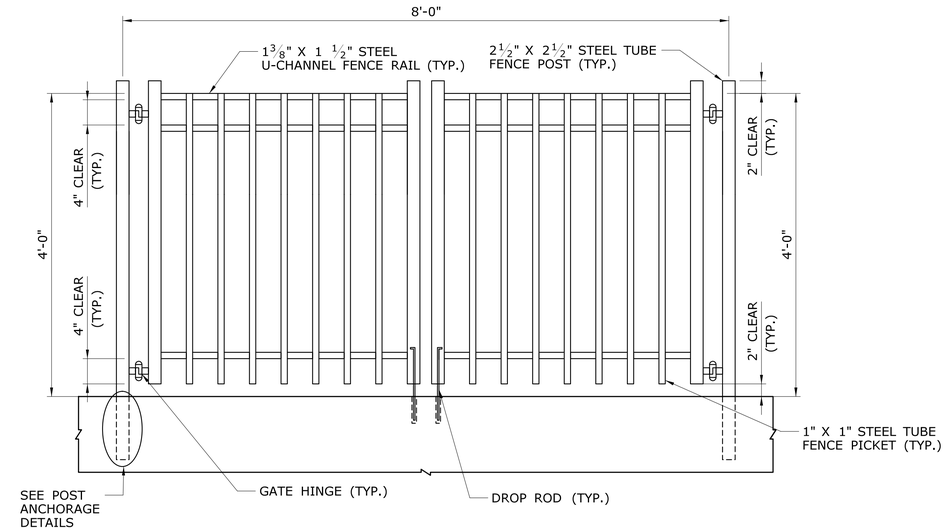
PROJECT NO. 16-98

DRAWING NO. S-10

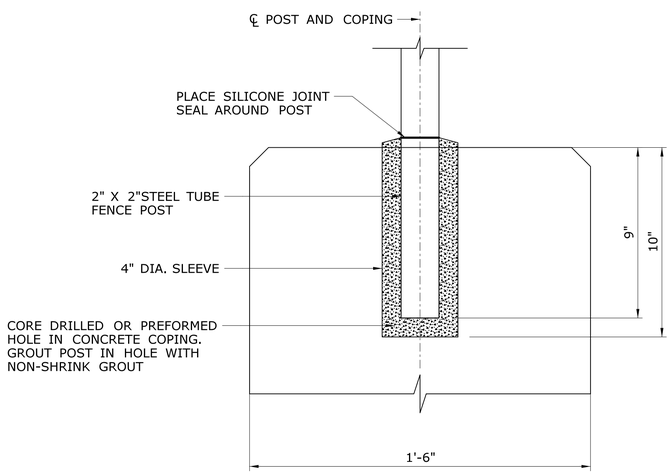
SHEET NO. 04.10



TYPICAL ELEVATION
DECORATIVE FENCE DETAIL
SCALE: 1" = 1'-0"



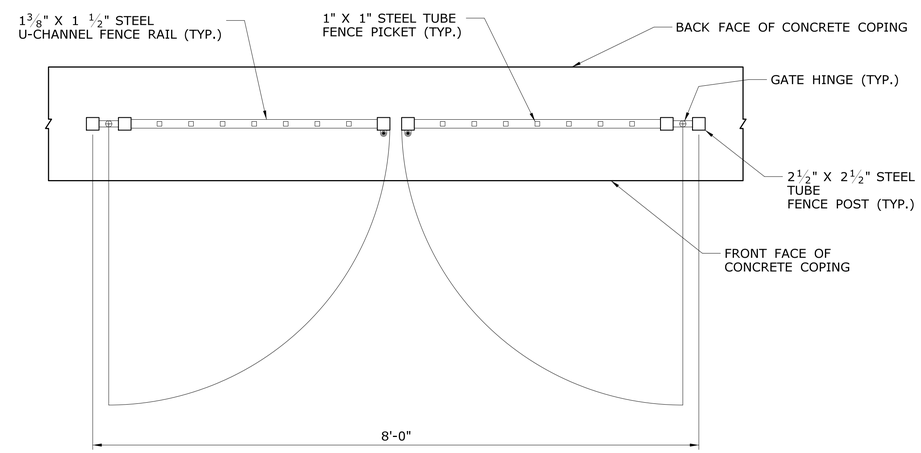
TYPICAL ELEVATION
DECORATIVE FENCE GATE DETAIL
SCALE: 1" = 1'-0"



POST ANCHORAGE DETAILS
SCALE: 3" = 1'-0"

DECORATIVE FENCE NOTES:

1. THE POSTS, PICKETS, RAILS AND HARDWARE SHALL BE GALVANIZED AND POWDER COATED BLACK IN ACCORDANCE TO SPECIAL PROVISION "DECORATIVE FENCE".
2. THE FENCE POSTS SHALL BE INSTALLED A MINIMUM OF 1'-0" AWAY FROM ANY EXPANSION OR CONTRACTION JOINT.
3. THE POSTS SHALL BE INSTALLED IN THE NON-SHRINK GROUT FILLED HOLES AND HELD PLUMB UNTIL THE GROUT HAS CURED.
4. THE FENCE RAILS SHALL BE INSTALLED PARALLEL TO THE TOP OF WALL.
5. THE GATE SHALL OPEN TOWARDS THE FRONT OF THE WALL.
6. THE FABRICATION AND INSTALLATION OF THE DECORATIVE FENCE, INCLUDING THE GATES, CORE DRILLING AND NON-SHRINK GROUT, SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "DECORATIVE FENCE".



TYPICAL PLAN
DECORATIVE FENCE GATE DETAIL
SCALE: 1" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 2/27/2016

DESIGNER/DRAFTER: **MM**
CHECKED BY: **KP**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_16-98_T-WALL_FENCE_DETAILS.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
SAFETY IMPROVEMENT ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **DECORATIVE FENCE DETAILS**

PROJECT NO. **16-98**
DRAWING NO. **S-11**
SHEET NO. **04.11**

SUBSET
TRAFFIC - LEGENDS & LIST OF DRAWINGS

STANDARD CONVENTIONS

HEDGE LINE	PICKET FENCE	EXISTING CULVERT
BIT. CONC. LIP CURBING	BOARD FENCE	PROPOSED CULVERT
CURB STATED WHETHER STONE or CONC.	WIRE FENCE	
STONE WALL	GRAPE ARBOR	HOUSE / BARN — BUILDINGS
CONC. WALK	RETAINING WALL	
WALK - TAR, GRAVEL or EARTH	OPEN DITCH DRY	RIVERS, LAKES,FLOWING STREAMS, ETC.
NAME of CO. / EXISTING R.R. TRACKS	TELEGRAPH, TELEPHONE or ELECTRIC LIGHT POLES	SWAMP
PROPOSED R.R. TRACKS	GUIDE RAIL (NOTE TYPE)	
TAKING LINE		C.B.
TAKING LINE NA or NA LINE	LEDGE or ROCK	RANDOM STONE
EASEMENT LINE	HYDRANT	HIGHWAY MON. C.H.D. MONUMENT
	TREE	
PROPERTY LINE	DECIDIOUS EVERGREEN	
TOWN LINE	NORTH ARROW (MAGNETIC)	EXISTING TRAVEL PATH

STANDARD TRAFFIC SIGNAL CONVENTIONS

○	PROPOSED WOOD SPAN POLE
●	EXISTING WOOD SPAN POLE
	PROPOSED STEEL SPAN POLE
	EXISTING STEEL SPAN POLE
	PROPOSED COMBINATION SPAN POLE
	EXISTING COMBINATION SPAN POLE
	PROPOSED UTILITY POLE
	EXISTING UTILITY POLE
	PEDESTAL MOUNTING
	PEDESTAL PUSH BUTTON
	TRAFFIC SIGNAL FACE
	PEDESTRIAN SIGNAL FACE
	CONTROLLER
	LOOP DETECTOR
	LOOP LEADS IN SAWCUT
■	MAGNETIC DETECTOR
	HANDHOLE
	CONDUIT
	PORCELAIN STRAIN INSULATOR
	CABLE CLOSURE

SIGNING STANDARD CONVENTIONS

	OVERHEAD INSTALLATION
	CANTILEVER INSTALLATION
	SIDE MOUNTED INSTALLATION
	SINGLE POST MOUNTING — REGULATORY, WARNING OR GUIDE SIGN INSTALLATION
	DOUBLE POST MOUNTING — REGULATORY, WARNING OR GUIDE SIGN INSTALLATION
	SIDE MOUNTED EXTRUDED ALUMINUM SIGN
	SINGLE POST MOUNTING SHEET ALUMINUM BACK TO BACK
	DOUBLE POST MOUNTING SHEET ALUMINUM BACK TO BACK
	SIDE MOUNTED EXTRUDED ALUMINUM SIGN BACK TO BACK
00-000-00 / 0	LOCATION NO. EXTRUDED ALUMINUM SIGNS
00 / 00-0	LOCATION NO. / SIGN NO. — SHEET ALUMINUM SIGNS

LIST OF DRAWINGS

DWG. NO.	SHEET NO.	TITLE
TR_01	05.01	SUBSET TITLE SHEET
DTR_01 - DTR_05	05.02 - 05.06	DETOUR PLAN & DETAILS
SPM_01 - SPM_06	05.07 - 05.12	SIGNING AND PAVEMENT MARKING PLAN
GS_01 - GS_03	05.13 - 05.15	GUIDE SHEETS

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

PRINCIPAL ENGINEER

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
- -	- -	- -	- -
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **O. FILS**
CHECKED BY: **J. MASSINI**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_CVR_16_0098.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:
Mark Makuch

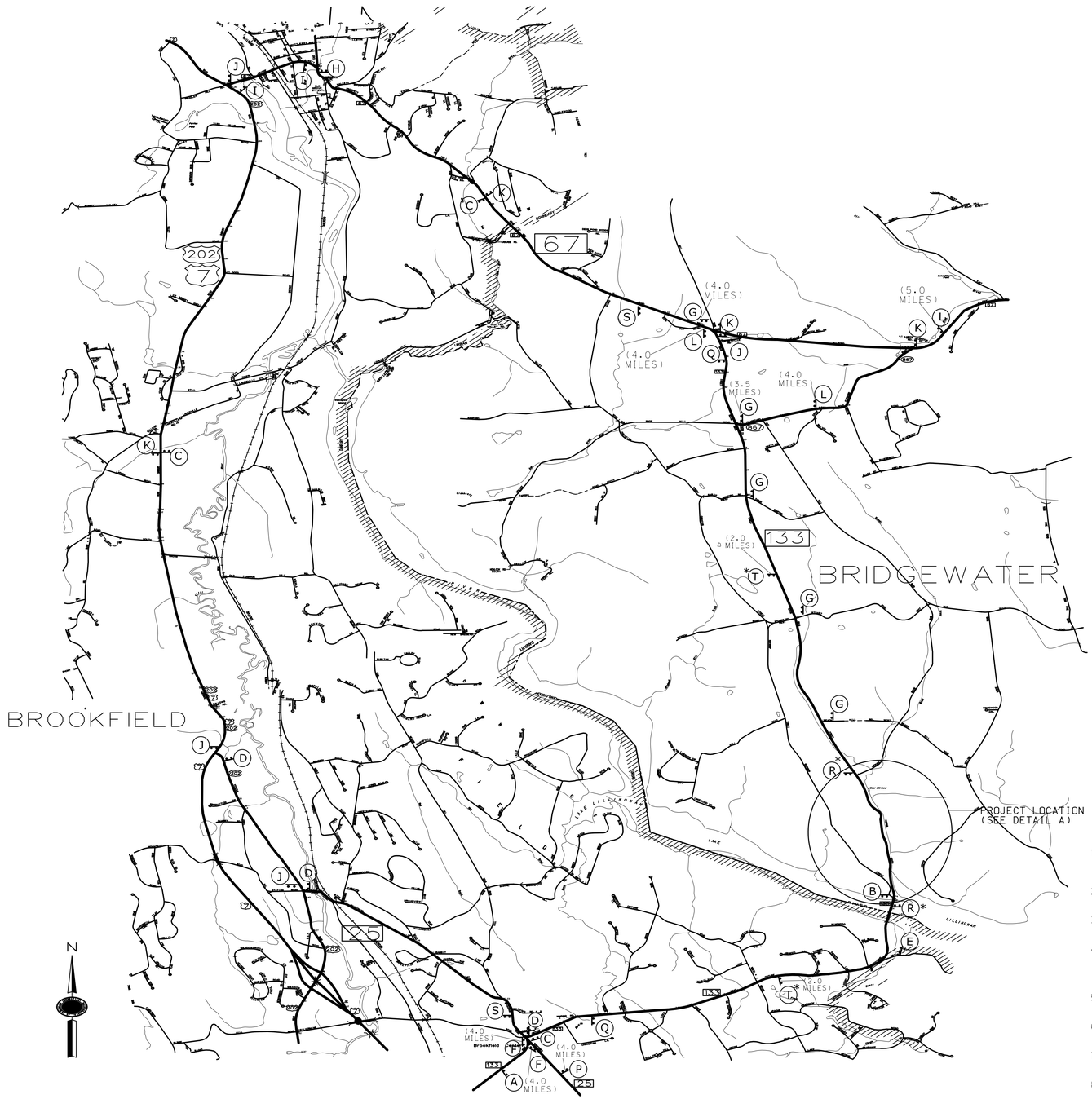
PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE: **SUBSET TITLE SHEET**

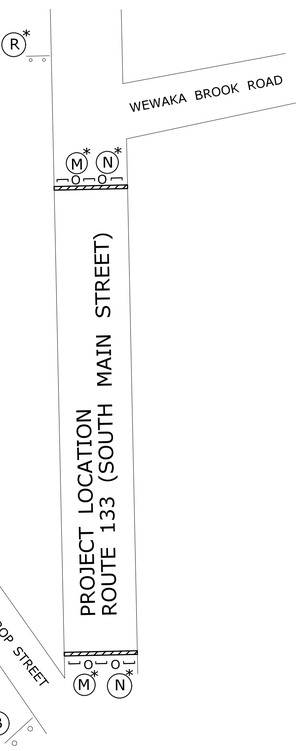
PROJECT NO. **16-98**
DRAWING NO. **TR_01**
SHEET NO. **05.01**

New Milford



SIGN LEGEND

A*	80-9805	DETOUR AHEAD	
B	80-9929 80-9701	ROUTE 133 NORTH CLOSED LOCAL TRAFFIC ONLY DETOUR	
C	80-9707 51-6611 51-6616 51-2625	DETOUR NORTH 133	
D	80-9707 51-6611 51-6616 51-2626R	DETOUR NORTH 133	
E	80-9929 80-9702	ROUTE 133 NORTH CLOSED LOCAL TRAFFIC ONLY DETOUR	
F	80-9929 80-9702	ROUTE 133 NORTH CLOSED XX MILES LOCAL TRAFFIC ONLY DETOUR	
G	80-9929 80-9701	ROUTE 133 SOUTH CLOSED XX MILES LOCAL TRAFFIC ONLY DETOUR	
H	80-9707 51-6611 51-6616 51-2628	DETOUR SOUTH 133	
I	80-9707 51-6611 51-6616 51-2629	DETOUR NORTH 133	
J	80-9707 51-6613 51-6616 51-2626	DETOUR SOUTH 133	
K	80-9707 51-6613 51-6616 51-2625	DETOUR SOUTH 133	
L	80-9929	ROUTE 133 SOUTH CLOSED XX MILES LOCAL TRAFFIC ONLY	
M*	80-9080	ROAD CLOSED	
N*	31-0553	STOP	
P	80-9929	ROUTE 133 NORTH CLOSED XX MILES LOCAL TRAFFIC ONLY	
Q	80-1608	CONSTRUCTION AHEAD ROAD USE RESTRICTED STATE LIABILITY LIMITED GENERAL STATUTES SEC 13a-115, 13a-145 COMMISSIONER OF TRANSPORTATION	
R*	80-9933	ROAD CLOSED AHEAD	
S	80-9708	END DETOUR	
T*	80-9077	ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	



DETAIL A

DETOUR NOTES

1. ALL SIGN LOCATIONS ON THE PLAN ARE ONLY APPROXIMATE. EXACT LOCATIONS SHALL BE VERIFIED IN THE FIELD AS DIRECTED BY THE ENGINEER.
2. DETOUR SIGNS SHALL BE COVERED WHEN THE DETOUR IS NOT REQUIRED.
3. DETOUR SIGNS SHALL BE REMOVED WHEN THE DETOUR IS NO LONGER REQUIRED.
4. EXISTING SIGNS WHICH CONFLICT WITH THE DETOUR SIGNS SHALL BE COVERED, REMOVED, OR REVISED AS DIRECTED BY THE ENGINEER. ALL OTHER SIGNS SHALL REMAIN.
5. INSTALL POST-MOUNTED SIGNSIN ACCORDANCE WITH STANDARD SHEETS TR-1208_01 AND TR-1208_02.
6. THE COST OF THE DETOUR SIGNS SHALL BE PAID FOR UNDER ITEM NO. 1220027 - CONSTRUCTION SIGNS
7. ACCESS AND EGRESS TO ALL STREETS AND DRIVES MUST BE MAINTAINED AT ALL TIMES.
8. TWO WEEKS PRIOR TO INTIATING THE DETOUR, INSTALL ONE VMS AT BOTH APPROACHES OF PROJECT LIMITS. MESSAGE: "ROUTE 133 CLOSED TO THRU TRAFFIC FROM 00/ 00 TO 00/ 00"

LEGEND

-] CONSTRUCTION BARRICADE TYPE III
- O TRAFFIC DRUM
- ⊣ SINGLE POST-MOUNTED SIGN
- ⊣⊣ DOUBLE POST-MOUNTED SIGN
- ✳ BARRICADE WARNING LIGHTS HIGH INTENSITY
- ▭ T.P.C.B.C

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 2/26/2016

DESIGNER/DRAFTER: O. FILS
CHECKED BY: J. MASSINI

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DTR_016_0098_001.dgn

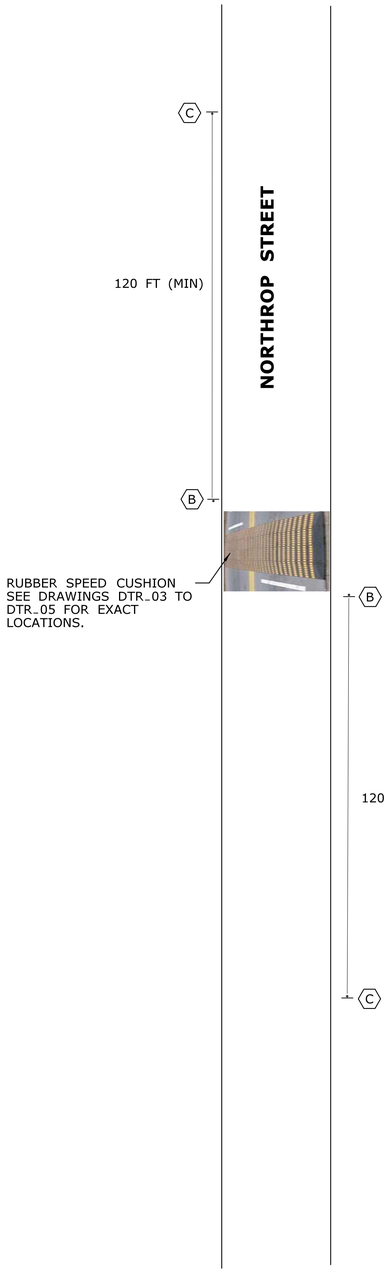
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mark Makuch

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER
DRAWING TITLE: DETOUR PLAN

PROJECT NO. 16-98
DRAWING NO. DTR_01
SHEET NO. 05.02

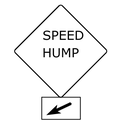
TYPICAL SIGNING PLAN



SIGN LEGEND

A 31-5504
CMS - ITEM # 1131006A
STATIONARY OR PORTABLE

B 41-4591
41-2607



C 41-4591
41-6112

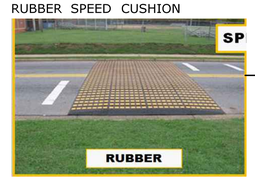
NOTES

1. SIGN A TO BE INSTALLED ON NORTHROP STREET BOTH DIRECTIONS AT A LOCATION DETERMINED BY THE ENGINEER.

2. EXACT LOCATIONS OF SIGNS TO BE VERIFIED BY THE ENGINEER.

RUBBER SPEED CUSHION PAVEMENT MARKING DETAIL

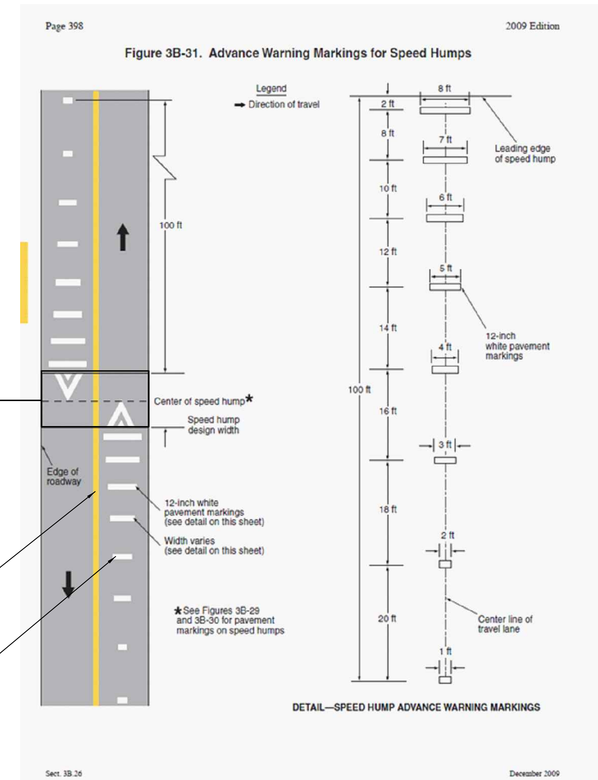
RUBBER SPEED CUSHION



RUBBER SPEED CUSHION TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

CENTERLINE PAVEMENT MARKINGS MAY BE OMITTED FOR THIS PROJECT.

TEMPORARY PAVEMENT MARKING TAPE



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/26/2016

DESIGNER/DRAFTER: O. FILS
CHECKED BY: J. MASSINI
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_DTR_016_0098_002.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mark Makuch

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: DETOUR PLAN DETAILS

PROJECT NO. 16-98
DRAWING NO. DTR_02
SHEET NO. 05.03

MATCH MARK - SEE DRAWING NO. DTR-04

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/5/2016

DESIGNER/DRAFTER: KAM

CHECKED BY: JDP

SCALE IN FEET 0 200 400

SCALE 1"=200'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_SPD_TBL_01.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mark Makuch

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: SPEED TABLE LOCATION PLAN

PROJECT NO. 16-98

DRAWING NO. DTR-03

SHEET NO. 05.04

MATCH MARK - SEE DRAWING NO. DTR-03

MATCH MARK - SEE DRAWING NO. DTR-05

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/5/2016

DESIGNER/DRAFTER: KAM

CHECKED BY: JDP

SCALE IN FEET 0 200 400

SCALE 1"=200'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_SPD_TBL_02.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mark Makuch

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: SPEED TABLE LOCATION PLAN

PROJECT NO. 16-98

DRAWING NO. DTR-04

SHEET NO. 05.05

MATCH MARK - SEE DRAWING NO. DTR-04

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 2/5/2016

DESIGNER/DRAFTER: KAM

CHECKED BY: JDP

SCALE IN FEET 0 200 400

SCALE 1"=200'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0016_0098_SPD_TBL_03.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Mark Makuch

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: SPEED TABLE LOCATION PLAN

PROJECT NO. 16-98

DRAWING NO. DTR-05

SHEET NO. 05.06

GENERAL NOTES

1. INSTALL NEW SHEET ALUMINUM SIGNS ON NEW SIGN POSTS THROUGHOUT THE PROJECT LIMITS.

2. REPLACE ALL TYPE 2 OBJECT MARKERS WITHIN THE PROJECT LIMITS. THIS WORK SHALL BE PAID FOR UNDER ITEM NO. 1208932 - SIGN FACE - SHEET ALUMINUM (TYPE IV REFLECTIVE SHEETING).

3. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER.

4. ALL EXISTING SIGNS OUTSIDE OF THE PROJECT LIMITS ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.

5. ALL EXISTING SHEET ALUMINUM SIGNS WITHIN THE PROJECT LIMITS THAT ARE RELOCATED BY CONSTRUCTION OPERATIONS ARE TO BE REINSTALLED ON NEW POSTS. THIS WORK WILL BE PAID FOR UNDER ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.

6. EXACT LOCATIONS OF SHEET ALUMINUM SIGNS TO BE VERIFIED BY THE ENGINEER.

7. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH DOT STANDARD SHEETS TR-1208-01 "SIGN SUPPORT AND SIGN PLACEMENT DETAILS GORE EXIT SIGN" AND TR-1208-02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" UNLESS OTHERWISE NOTED ON THE PLANS.

8. WHEN A SIGN IS TO BE REPLACED, THE EXISTING SIGN SHOULD NOT BE REMOVED UNTIL THE PLACEMENT SIGN IS INSTALLED.

9. PAVEMENT MARKINGS SHALL BE INSTALLED THOUGHOUT THE PROJECT TO THE LIMITS OF PAVEMENT MARKINGS. MATCH TO EXISTING MARKINGS AT THE LIMITS OF PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER.

10. PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH DOT STANDARD SHEETS TR-1210-03 " SPECIAL DETAILS AND TYPICAL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS" UNLESS OTHERWISE NOTED ON THE PLANS.

11. THE CONTRACTOR SHALL CLEAR AND TRIM AS DIRECTED BY THE ENGINEER TO PROVIDE ADEQUATE SIGHT DISTANCE TO SIGNS. THIS WORK SHALL BE PAID FOR UNDER ITEM NO. 0201001 - CLEARING AND GRUBBING.

12. ALL "NO PARKING" SIGNS SHALL BE INSTALLED USING 45° SUBMOUNTING BRACKETS WHETHER ALONE OR SUBMOUNTED UNDER OTHER SIGNS.

13. INSTALL YELLOW FLUORESCENT DELINEATOR STRIPS SIGN NO. 41-5001 WITH ALL WARNING SIGN POSTS.

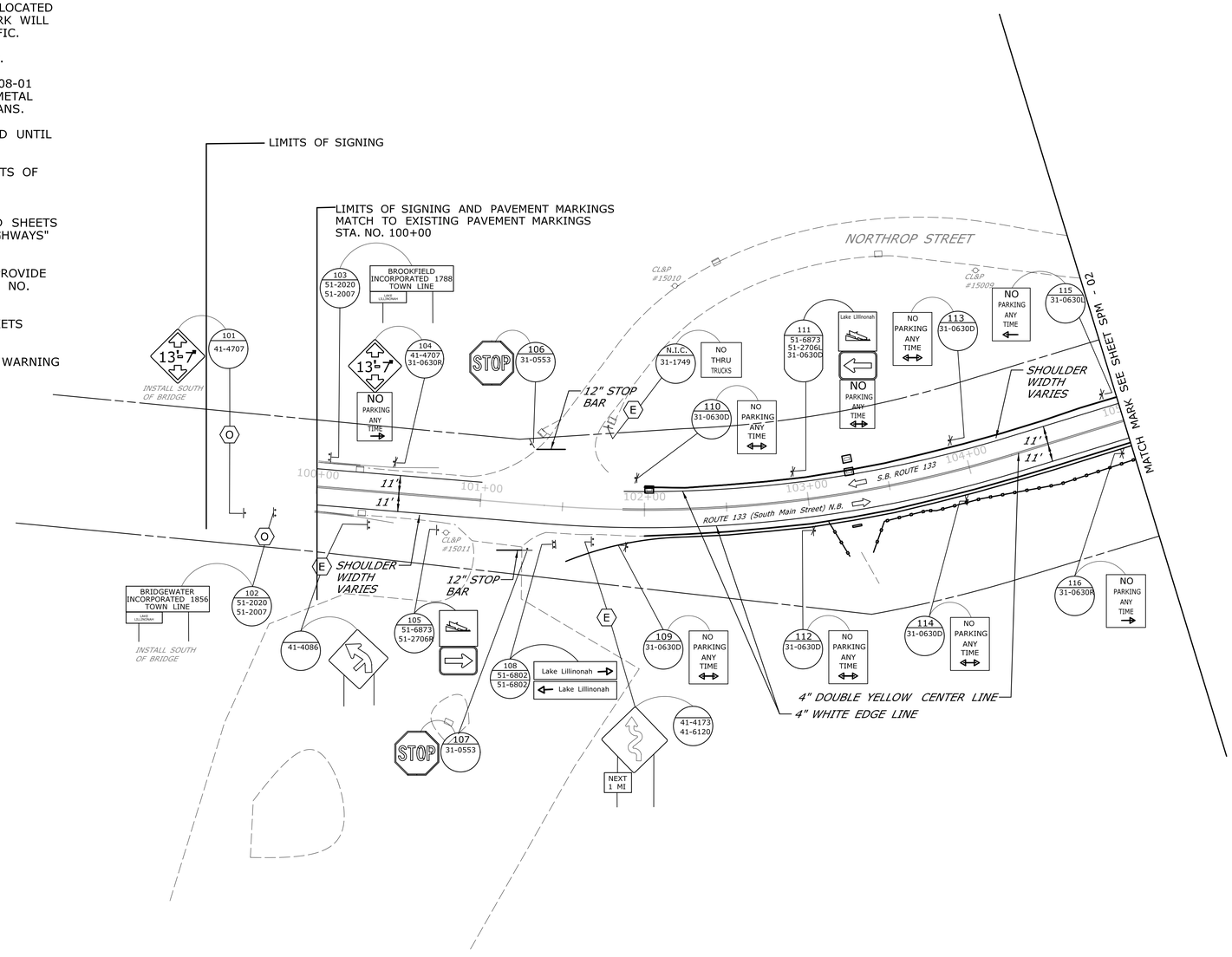
14. ALL WARNING SIGNS SHALL HAVE YELLOW FLUORESCENT TYPE IX SHEETING.

LEGENDS

N.I.C. NOT IN CONTRACT

(E) EXISTING SIGN TO REMAIN

(O) INSTALL NEW SIGN OUTSIDE PROJECT LIMITS



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/22/2016

DESIGNER/DRAFTER: **O. FILS**

CHECKED BY: **J. MASSINI**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_SPM_0016_0098_001.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: Mark Makuch

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

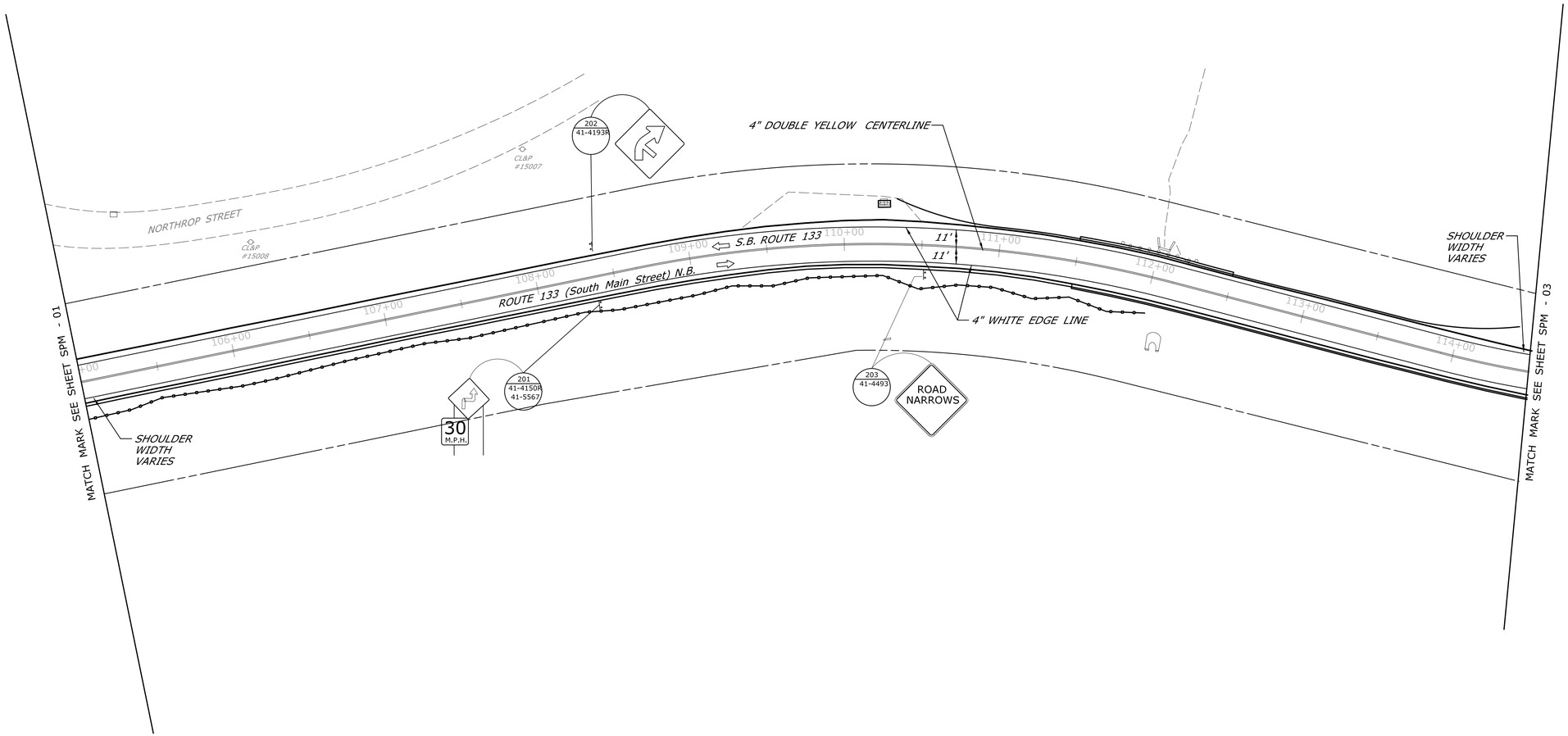
TOWN: **BRIDGEWATER**

DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN**

PROJECT NO. **16-98**

DRAWING NO. **SPM_01**

SHEET NO. **05.07**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/29/2016

DESIGNER/DRAFTER: **O. FILS**

CHECKED BY: **J. MASSINI**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_SPM_0016_0098_002.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: Mark Makuch

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

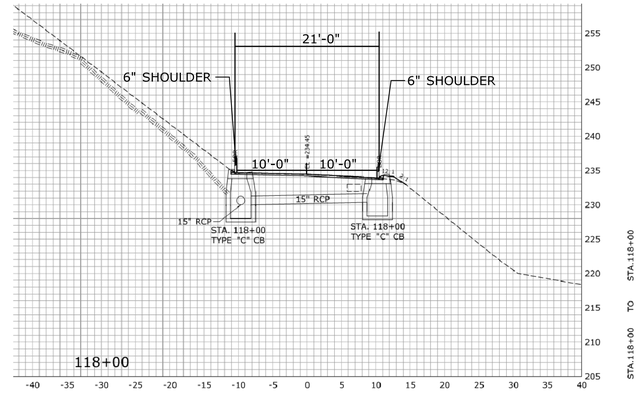
DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN**

PROJECT NO. **16-98**

DRAWING NO. **SPM_02**

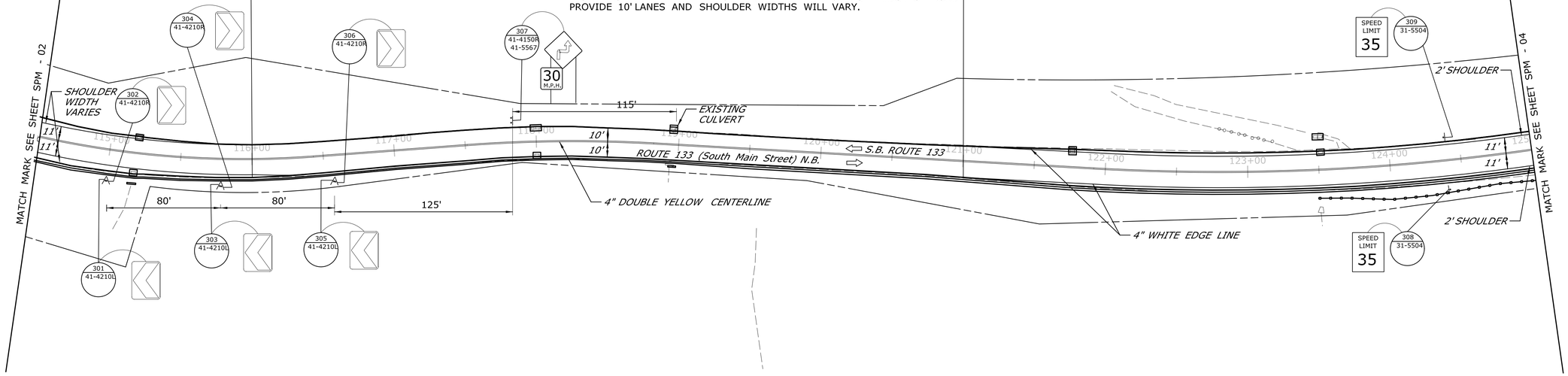
SHEET NO. **05.08**

WORST CASE CROSS SECTION



NARROW SECTION

FROM STATION NO. 115+00 TO 121+00
INSTALL CENTERLINE AT MIDPOINT BETWEEN LEFT & RIGHT EDGE OF ROAD
PROVIDE 10' LANES AND SHOULDER WIDTHS WILL VARY.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/26/2016

DESIGNER/DRAFTER: **O. FILS**
CHECKED BY: **J. MASSINI**
SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_SPM_0016_0098_003.dgn

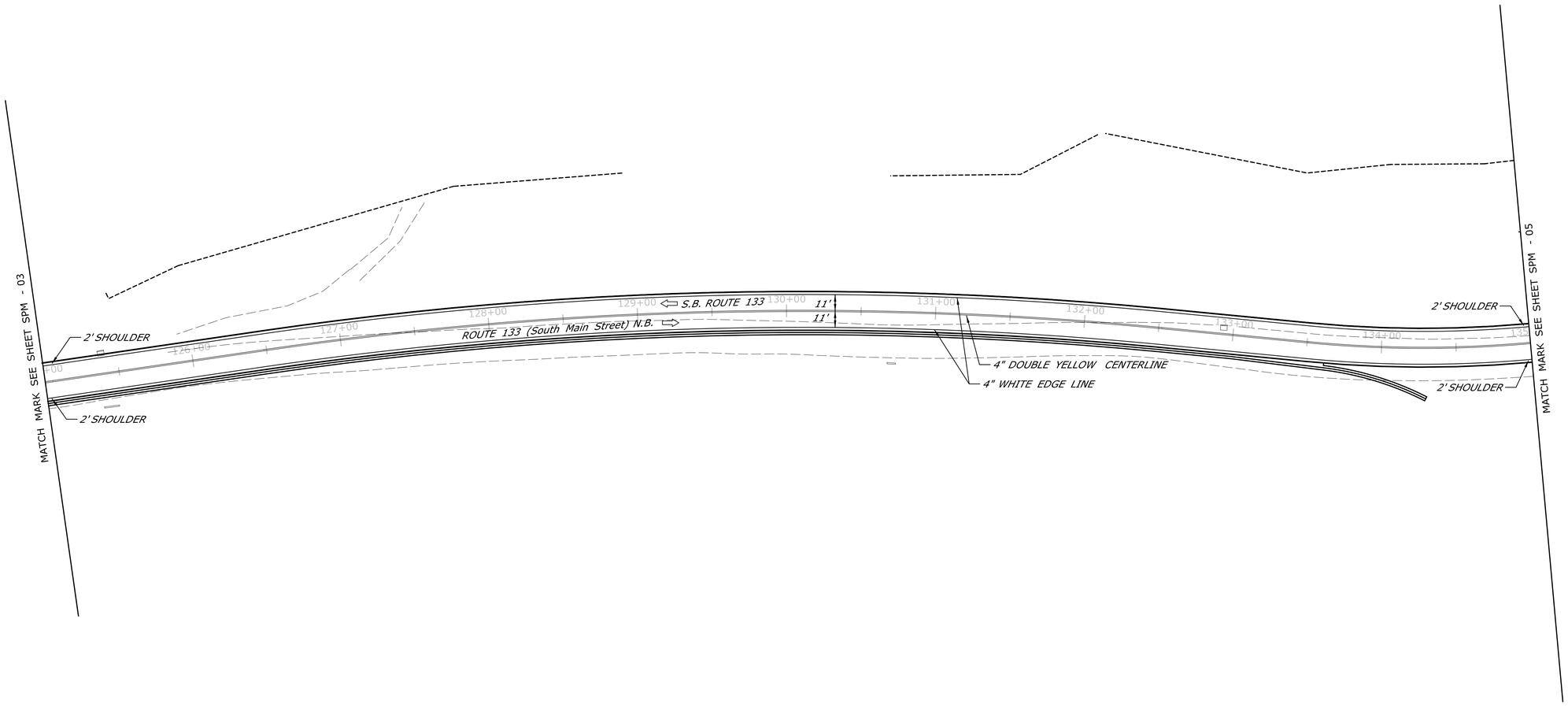
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Mark Makuch

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: **BRIDGEWATER**

DRAWING TITLE:
SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO. **16-98**
DRAWING NO. **SPM_03**
SHEET NO. **05.09**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/26/2016

DESIGNER/DRAFTER: **O. FILS**

CHECKED BY: **J. MASSINI**

SCALE IN FEET

0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_SPM_0016_0098_004.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Mark Makuch

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

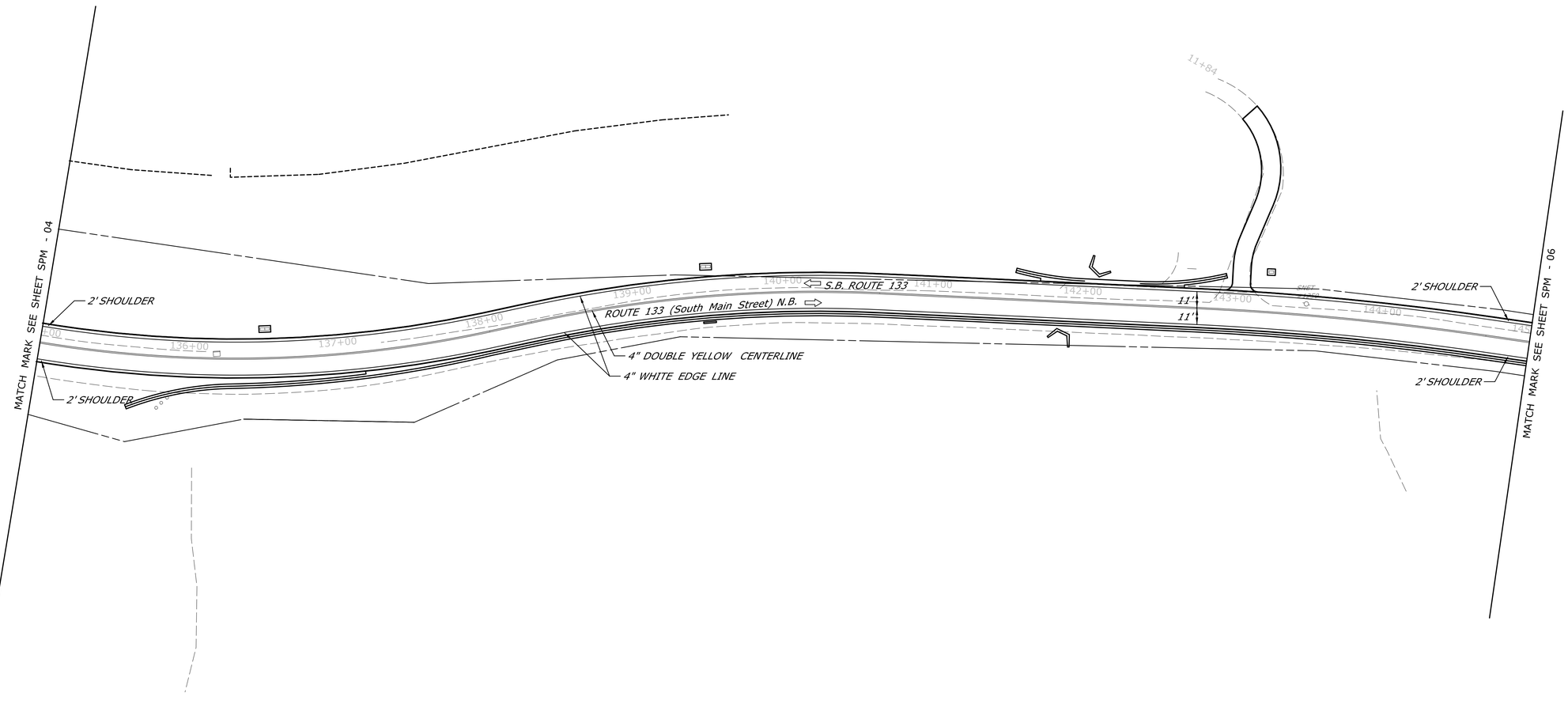
TOWN: **BRIDGEWATER**

DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN**

PROJECT NO. **16-98**

DRAWING NO. **SPM_04**

SHEET NO. **05.10**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/26/2016

DESIGNER/DRAFTER: **O. FILS**

CHECKED BY: **J. MASSINI**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_SPM_0016_0098_005.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Mark Makuch

PROJECT TITLE:

SAFETY IMPROVEMENTS ON ROUTE 133

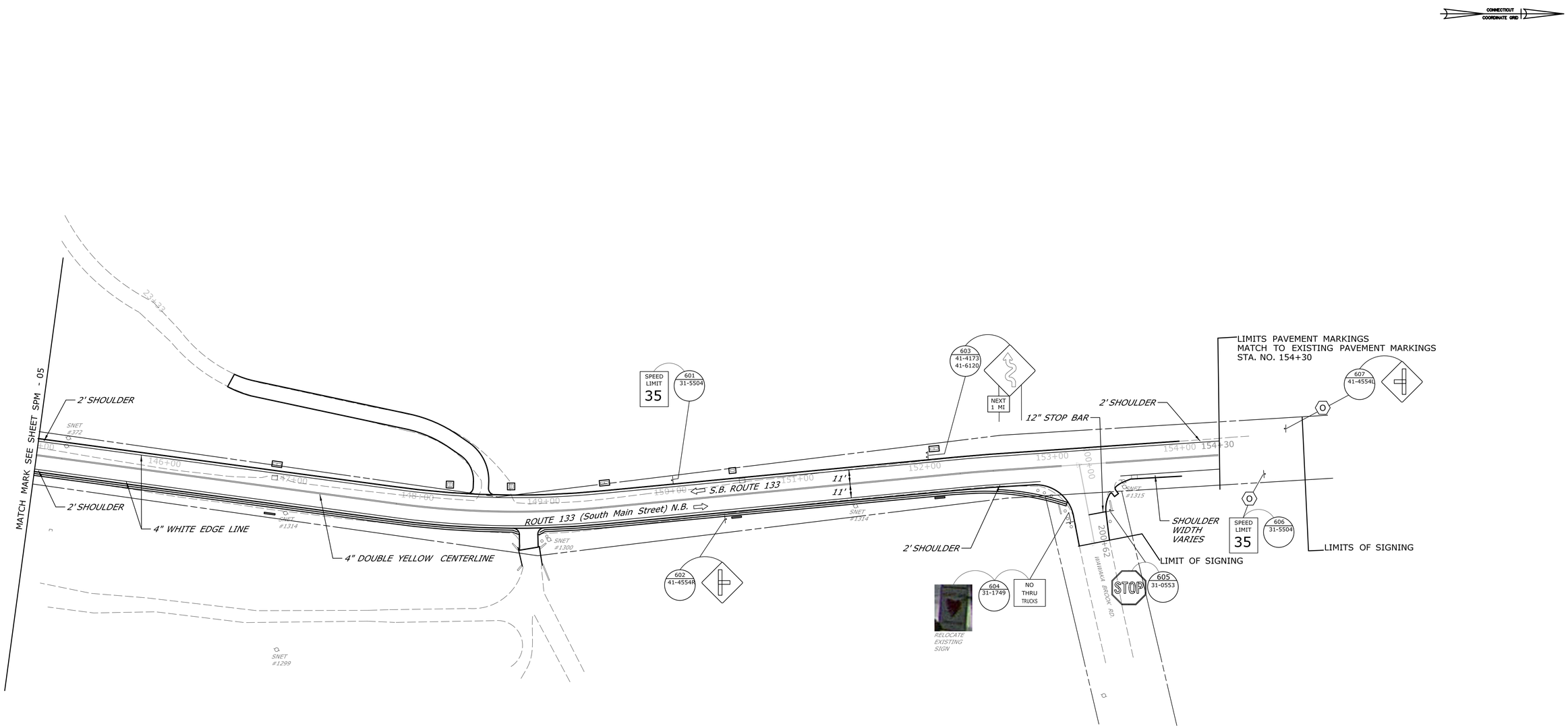
TOWN: **BRIDGEWATER**

DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN**

PROJECT NO. **16-98**

DRAWING NO. **SPM_05**

SHEET NO. **05.11**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 2/27/2016

DESIGNER/DRAFTER: **O. FILS**

CHECKED BY: **J. MASSINI**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_SPM_0016_0098_006.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: Mark Makuch

PROJECT TITLE: **SAFETY IMPROVEMENTS ON ROUTE 133**

TOWN: **BRIDGEWATER**

DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN**

PROJECT NO. **16-98**

DRAWING NO. **SPM_06**

SHEET NO. **05.12**

R1 - SERIES

R1-1 *

STOP

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.31	24	31-0536	1	.080
5.19	30	31-0552	1	.080
7.98	36	31-0553	1	.080
13.3	48	31-0557	2	.100

R1-2 *

YIELD

LEGEND - RED
BACKGROUND -WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.90	36	31-0523	1	.080
6.77	48	31-0522	2B	.100
10.83	60	31-0528	2B	.100

R1-3 *

ALL-WAY

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	31-0508		.080

R2 - SERIES

R2-1

SPEED LIMIT 00

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-5505	1	.080
7.50	30X36	31-5504	1	.080
12.00	36X48	31-5506	2	.100
20.00	48X60	31-5507	2B	.100

R3 - SERIES

R3-1

NO RIGHT TURN

31-1604 OVERHEAD MTD
LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1604		.080
6.25	30X30	31-1617	1	.080
5.00	30X24	31-1618		.080
9.00	36X36	31-1627	2	.080
7.50	36X30	31-1628		.080

R3-2

NO LEFT TURN

31-1603 OVERHEAD MTD
LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1603		.080
6.25	30X30	31-1619	1	.080
5.00	30X24	31-1620		.080
9.00	36X36	31-1629	2	.080
7.50	36X30	31-1630		.080

R3-3

NO TURNS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1648	1	.080
9.00	36X36	31-1647	2	.080

R3-4

LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1622	1	.080
9.00	36X36	31-1632	2	.080

R3-5

ONLY (L) ONLY (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-0135L	1	.080
4.00	24X24	31-0138R	1	.080
7.50	30X36	31-0183L	1	.080
7.50	30X36	31-0184R	1	.080

R3-6

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0157L	1	.080
7.50	30X36	31-0158R	1	.080

R3-7L R3-7R

LEFT LANE MUST TURN LEFT

RIGHT LANE MUST TURN RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0117L	1	.080
6.25	30X30	31-0118R	1	.080
9.00	36X36	31-0120L	2	.080
9.00	36X36	31-0123R	2	.080

R3-48

ONLY (L) ONLY (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0262L	1	.080
6.25	30X30	31-0261R	1	.080

ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

ONLY ONLY
31-0282 31-0283

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-0125	1	.080
6.25	30X30	31-0165	1	.080
7.50	30X36	31-0175	1	.080

ONLY ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31-0290	1	.080

ONLY ONLY
31-0295 31-0219

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

ONLY ONLY
31-0222 31-0223

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30		1	.080
8.75	42X30	31-0279	2	.100

R3-8b

ONLY ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	31-0302	2	.100

ONLY ONLY
31-0307 31-0372

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30		2	.100

ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0334	2	.100

ONLY ONLY
31-0370 31-0371

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30		2	.100

LEFT LANE MUST TURN LEFT

RIGHT LANE MUST TURN RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-0121L	2B	.100
20.00	48X60	31-0122R	2B	.100

R4 - SERIES

R4-1

DO NOT PASS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1502	1	.080

KEEP RIGHT EXCEPT TO PASS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-1574	2B	.100

SLOW VEHICLES KEEP RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-1504	2B	.100

R4-3

SLOWER TRAFFIC KEEP RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1562	1	.080
20.00	48X60	31-1564	2B	.100

R4-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1526	1	.080
12.00	36X48	31-1536	2	.100
20.00	48X60	31-1546	2B	.100

R5 - SERIES

R5-1 *

DO NOT ENTER

LEGEND - WHITE
BACKGROUND - WHITE
CIRCLE - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-1119	1	.080
9.00	36X36	31-1120	2	.080
16.00	48X48	31-1121	2	.100

NO PEDESTRIANS BICYCLES MOTOR BIKES MOTOR SCOOTERS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36X36	31-1775	2	.100

R5-1a *

WRONG WAY

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	36X24	31-1122	2	.080
8.75	42X30	31-1123	2	.100

EMERGENCY AND AUTHORIZED VEHICLES ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1790	1	.080
20.00	48X60	31-1792	2B	.100

PROHIBITED
COMMERCIAL VEH
TRAILERS
COMBINATION VEH OVER 7500 LBS
VEH. OVER 8' HIGH
MOPEDS - BICYCLES PEDESTRIANS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
27.00	54X72	31-1719	2B	.125

NO PEDESTRIAN CROSSING

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31-1702	1	.080

R5-10c

NO PEDESTRIANS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	31-1774	1	.080

NO THRU TRUCKS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1749	1	.080

R6 - SERIES

R6-1

(L) ONE WAY
(R) ONE WAY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	36X12	31-1188L	1	.080
3.00	36X12	31-1177R	1	.080
6.75	54X18	31-1189L	2	.100
6.75	54X18	31-1178R	2	.100

R7 - SERIES

(R) (D) (P) (NO ARROW) (L)

HANDICAPPED PARKING PERMIT REQUIRED
VIOLATORS WILL BE FINED MIN $150

LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	12X24	31-0629	1	.080

R7-1

NO PARKING ANY TIME

(R) (D) (L)

LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0630	1	.080

R7-2a

NO PARKING 0:00 AM TO 0:00 PM

VARIABLE TIMES
(R) (D) (L)

LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0603	1	.080

R8 - SERIES

R8-7

EMERGENCY STOPPING ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
12.00	48X36	31-0670	2	.100

R9 - SERIES

HITCHHIKING PROHIBITED
DO NOT STOP

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
27.50	66X60	31-1733	2B	.125

R10 - SERIES

R10-6

STOP HERE ON RED
31-0801

STOP HERE ON RED
31-0802

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	24X36		1	.080

DO NOT BLOCK DRIVEWAY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0803	1	.080
12.00	36X48	31-0804	2	.100

R10-7

DO NOT BLOCK INTERSECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0806	1	.080
12.00	36X48	31-0807	2	.100

R10-11b

NO TURN ON RED

OVERHEAD MOUNTED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-0823		.080
9.00	36X36	31-0816	2	.080

RIGHT TURN ON RED FROM RIGHT LANE ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0847	1	.080
20.00	48X60	31-0849	2B	.100

R10-10L

LEFT TURN SIGNAL

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0842		.080
7.50	30X36	31-0852	1	.080

R10-11a

NO TURN ON RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0830	1	.080
12.00	36X48	31-0819	2	.100

R11 - SERIES

R11-1

KEEP OFF MEDIAN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1915	1	.080
20.00	48X60	31-1918	2B	.100

RETROREFLECTIVE STRIP

*

LEGEND - N/A
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.00	4X36	31-5003	1	.080
2.00	4X72	31-5004	1	.080
2.67	4X96	31-5005	1	.080

THIS SIGN ADDED FOR THIS PROJECT ONLY.

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R- SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
3. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
4. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
5. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
6. FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114_01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."

COLORS:

BACKGROUND - WHITE (SILVER) - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS TO USE TYPE IV RETROREFLECTIVE SHEETING EXCEPT AS NOTED BY *.
* SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION
5	6-2015	REVISED DRAWING NO.
4	5-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
3	6-2012	REVISED NOTE #1 TO REFERENCE "O.S.T.A."
2	6-2010	INCLUDED SIGNS TO MEET 2009 MUTCD REQUIREMENTS.
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAFTER: D. K. SWINBURNE
CHECKED BY: L.N. CONROY
Plotted: 2/26/2016

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_GS.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Mark Makuch DATE:

PROJECT TITLE: SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: SIGN FACE SHEET ALUMINUM R-SERIES SIGNS TYPICAL DETAILS

PROJECT NO. 16-98
DRAWING NO. TR-GS_01
SHEET NO. 05.13

S - SERIES

S1-1 *

LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.75	36	41-2112	1	.080
12.00	48	41-2113	2	.100

W1 - SERIES

W1-1L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4006	1	.080
9.00	36	41-4031	1	.080
16.00	48	41-4056	2	.100

W1-1R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4005	1	.080
9.00	36	41-4160	1	.080
16.00	48	41-4055	2	.100

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4141L	1	.080
9.00	36	41-4140R	1	.080
16.00	48	41-4062L	2	.100
16.00	48	41-4061R	2	.100

W1-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4028	1	.080
9.00	36	41-4084	1	.080
16.00	48	41-4068	2	.100

W1-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4027	1	.080
9.00	36	41-4083	1	.080
16.00	48	41-4067	2	.100

* (L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
16.00	48	41-4193R	2	.100
16.00	48	41-4086L	2	.100

W1-3 *

LEGEND - BLACK
BACKGROUND - YELLOW FLUORESCENT
(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4134	1	.080
16.00	48	41-4150	2	.100

W1-6

(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.00	48X24	41-4222	2	.100
12.50	60X30	41-4224	2	.100

W1-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.00	48X24	41-4207	2	.100
12.50	60X30	41-4208	2	.100

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4128L	1	.080
9.00	36	41-4127R	1	.080
16.00	48	41-4058L	2	.100
16.00	48	41-4057R	2	.100

W1-5 *

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4177R	1	.080
9.00	36	41-4172L	1	.080
16.00	48	41-4176R	2	.100
16.00	48	41-4173L	2	.100

W1-8

(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	41-4250	1	.080
5.00	24X30	41-4203	1	.080
7.50	30X36	41-4204	1	.080
12.00	36X48	41-4251	2	.080

W1-8 *

LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW
(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	41-4210	1	.080
7.50	30X36	41-4211	1	.080

W1-10

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4085L	1	.080
9.00	36	41-4043R	1	.080
16.00	48	41-4090L	2	.100
16.00	48	41-4089R	2	.100

W2 - SERIES

W2-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4226	1	.080
9.00	36	41-4236	1	.080
16.00	48	41-4246	2	.100

W2-2 *

(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
16.00	48	41-4554	2	.100

W2-3

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4220L	1	.080
6.25	30	41-4219R	1	.080
9.00	36	41-4253L	1	.080
9.00	36	41-4252R	1	.080
16.00	48	41-4244L	2	.100
16.00	48	41-4243R	2	.100

W2-4

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4217	1	.080
9.00	36	41-4255	1	.080
16.00	48	41-4247	2	.100

W3 - SERIES

W3-1

OCTAGON - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0501	1	.080
9.00	36	41-0502	1	.080
16.00	48	41-0503	2	.100

W3-2

TRIANGLE - RED & WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0504	1	.080
9.00	36	41-0505	2	.100
16.00	48	41-0506	2	.100

W3-3

SYMBOL & LEGEND - BLACK
BACKGROUND - YELLOW
TOP CIRCLE - RED
BOTTOM CIRCLE - GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0835	1	.080
9.00	36	41-0836	1	.080
16.00	48	41-0848	2	.100
25.00	60	41-0860	2B	.125

WHEN FLASHING STOP AHEAD

W/ FLASHERS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
25.00	60	41-0534	2B	.125

W4 - SERIES

W4-1

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4448L	1	.080
9.00	36	41-4449R	1	.080
16.00	48	41-4452L	2	.100
16.00	48	41-4459R	2	.100

W4-2

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4442L	1	.080
9.00	36	41-4441R	1	.080
16.00	48	41-4446L	2	.100
16.00	48	41-4447R	2	.100

W4-3

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4468L	1	.080
9.00	36	41-4470R	1	.080
16.00	48	41-4435L	2	.100
16.00	48	41-4434R	2	.100

W5 - SERIES

W5-1 *

ROAD NARROWS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
16.00	48	41-4493	2	.100

W6 - SERIES

W6-1 W6-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4335	1	.080
16.00	48	41-4330	2	.100

W6-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4329	1	.080
16.00	48	41-4331	2	.100

W7 - SERIES

W7-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4506	1	.080
9.00	36	41-4530	1	.080
16.00	48	41-4508	2	.100

W8 - SERIES

W8-5

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4519	1	.080
9.00	36	41-4520	1	.080
16.00	48	41-4521	2	.100

W9 - SERIES

W9-1

LEFT LANE ENDS (L)
RIGHT LANE ENDS (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4443L	1	.080
9.00	36	41-4440R	1	.080
16.00	48	41-4444L	2	.100
16.00	48	41-4445R	2	.100

W9-2

LANE ENDS MERGE LEFT (L)
LANE ENDS MERGE RIGHT (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4454L	1	.080
9.00	36	41-4453R	1	.080
16.00	48	41-4456L	2	.100
16.00	48	41-4455R	2	.100

SLOW VEHICLE LANE ENDS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
22.00	66X48	41-1510	2B	.125

W10 - SERIES

W10-1

R R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.07	36	41-2201	1	.080

W11 - SERIES

W11-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4810	1	.080
9.00	36	41-4811	1	.080
16.00	48	41-4812	2	.100

W11-8

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4680	1	.080
9.00	36	41-4681	1	.080
16.00	48	41-4692	2	.100

W12 - SERIES

W12-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4213	1	.080
9.00	36	41-4215	1	.080
16.00	48	41-4214	2	.100

W12-2 *

00'-0"

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
16.00	48	41-4707	2	.100

LEFT LANE (L)
RIGHT LANE (R)

(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30	41-4729L		.080
7.50	36X30	41-4728R		.080

W13 - SERIES

W13-1 *

00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	41-5567		.080

W13-2

EXIT 00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	41-5596	2B	.100

W13-3

RAMP 00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	41-5598	2B	.100

W16 - SERIES

W16-2aP

41-6130 000 FT
41-6132 000 FT
41-6134 0000 FT

(SUBPLATE)
USE AT ADVANCE SIGN LOCATION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6130		.080
3.75	30X18	41-6132		.080
7.00	42X24	41-6134		.100

W16-2aP *

41-6130 000 FT
41-6132 000 FT

(SUBPLATE)
USE AT ADVANCE SIGN LOCATION
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6140		.080
3.75	30X18	41-6142		.080

W16-7PL

(SUBPLATE)
USE WITH W11-2 AT CROSSWALK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-2607		.080
3.75	30X18	41-2608		.080

W16-7PL *

(SUBPLATE)
USE WITH S1-1 AT CROSSWALK
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-2617		.080
3.75	30X18	41-2618		.080

W16-7PR

(SUBPLATE)
USE WITH W11-2 AT CROSSWALK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-2619		.080
3.75	30X18	41-2620		.080

W16-7PR *

(SUBPLATE)
USE WITH S1-1 AT CROSSWALK
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-2620		.080
3.75	30X18	41-2620		.080

W16-9P

AHEAD

(SUBPLATE)
USE AT ADVANCE SIGN LOCATION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6125		.080
3.75	30X18	41-6112		.080
6.00	36X24	41-6116		.080
12.00	48X36	41-6115		.100

W16-9P *

AHEAD

(SUBPLATE)
USE AT ADVANCE SIGN LOCATION
LEGEND - BLACK
BACKGROUND - FLUORESCENT YELLOW GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6126		.080
3.75	30X18	41-6137		.080
6.00	36X24	41-6138		.080
12.00	48X36	41-6139		.100

* NEXT 1 MI

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	41-6120		.080

THIS SIGN ADDED FOR THIS PROJECT ONLY.

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
2. POSTS - SEE STANDARD SHEET TR-1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

BACKGROUND - YELLOW - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL SIGNS TO USE TYPE IV RETROREFLECTIVE SHEETING EXCEPT AS NOTED BY *.
* SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION
4	6-2015	REVISED DRAWING NO.
3	5-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
2	11-2013	UPDATED PER MUTCD.
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAFTER: D.K. SWINBURNE
CHECKED BY: L.N. CONROY
Plotted: 2/29/2016

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_GS.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:
Mark Makuch

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: SIGN FACE SHEET ALUMINUM S&W SERIES SIGNS TYPICAL DETAILS

PROJECT NO. 16-98
DRAWING NO. TR-GS_02
SHEET NO. 05.14

D1 - SERIES

D1-1

51-5202 Variable →

D1-2

51-5203 Variable Variable →

VARIABLE LEGEND & ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.

D3 - SERIES

D3-1

Variable Road Name

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	48X12	51-2010	2	.100
5.00	60X12	51-2011	2	.100
6.00	72X12	51-2012	2	.125
7.00	84X12	51-2013	2	.125

D3-1

Variable Road Name

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	48X18	51-2004	2	.100
7.50	60X18	51-2001	2	.100
9.00	72X18	51-2002	2	.125
10.50	84X18	51-2003	2	.125

D4 - SERIES

D4-2

PARK - RIDE →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6006	1	.080
7.50	30X36	51-6007	1	.080
12.00	36X48	51-6008	2	.100

D4-2

PARK - RIDE →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6033	1	.080
7.50	30X36	51-6034	1	.080
12.00	36X48	51-6035	2	.100

D4-2

PARK - RIDE →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6044	1	.080
7.50	30X36	51-6045	1	.080
12.00	36X48	51-6046	2	.100

NOTICE
THIS PARKING AREA PATROLLED

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
15.00	60X36	51-5937	2	.100

PARK AT YOUR OWN RISK
REMOVE KEYS AND LOCK CAR
NOT RESPONSIBLE FOR
PROPERTY LOST OR STOLEN

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.50	36X18	51-6037	1	.080

D5 - SERIES

D5-2b

REST AREA ↗

LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
42.25	78X78	51-6901	2B	.125

SERVICE PLAZA ↗

LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
39.00	72X78	51-6158	2B	.125

D7 - SERIES

D-7

51-6802 Variable →

51-6803 Variable Variable →

W or W/O ARROW
VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.17	60X10	51-6802	2	.100
8.33	60X20	51-6803	2	.100

D9 - SERIES

D9-2

H

** FOR ARROW SUBPLATES
USE M5 & M6 SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6788	1	.080

D9-3a

** FOR ARROW SUBPLATES
USE M5 & M6 SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6762	1	.080

51-6705 DIESEL →
51-6706 FOOD →
51-6707 PHONE →
51-6708 GAS →
51-6709 LODGING →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	36X9		1	.080

D10 - SERIES

D10-4

NORTH
ROUTE 95
MILE
000

CARDINAL DIRECTION,
SHIELD AND NUMERALS ARE VARIABLE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.75	18X54	51-5307	1	.080

RECREATIONAL RS- SERIES

RS-054

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6873	1	.080

RS-117

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-7872	1	.080

51-2705 ↑

51-2706 L or R →

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.19	21X15	51-2705		.080
2.19	21X15	51-2706		.080

E5 - SERIES

E5-1a

EXIT ↖ (L) EXIT ↗ (R)

FOR USE AT "NO NUMBERED" EXITS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. # (L or R)	POSTS	ALUM. THK.
30.00	72X60	51-6150	2B	.125

E5-1a

EXIT ↖ 00 (L) EXIT 00 ↗ (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. # (L or R)	POSTS	ALUM. THK.
32.50	78X60	51-6124R	2B	.125
32.50	78X60	51-6125L	2B	.125

E5-1a

EXIT ↖ 00 B (L) EXIT 00 B ↗ (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. # (L or R)	POSTS	ALUM. THK.
45.00	108X60	51-6126R	2B	.125
45.00	108X60	51-6127L	2B	.125

E5-1a

EXIT ↖ 00 A-B (L) EXIT 00 A-B ↗ (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. # (L or R)	POSTS	ALUM. THK.
57.50	138X60	51-6128R	2B	.125
57.50	138X60	51-6129L	2B	.125

I - SERIES

I-3

(Variable) River

VARIABLE: RIVER, BROOK, CREEK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.50	36X18	51-2007	2	.080
12.00	48X36	51-2051	2	.100

(Town Name)
(INCORPORATED OR SETTLED) (DATE)
TOWN LINE

VARIABLE: TOWN / CITY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	40X27	51-2020	2	.080

(Name)
Connecticut

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	51-2040	2	.100

I-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-1448	1	.080
6.25	30X30	51-1445	1	.080

INCIDENT MANAGEMENT

N 0 .0 N 0 0 .0 N 0 0 0 .0

CARDINAL DIRECTION VARIABLE - N, S, E, W

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	12X36	51-5103	1	.080
4.00	12X48	51-5104	1	.080
5.00	12X60	51-5105	1	.080

SYMBOL - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	51-5943	1	.080

51-6504 Variable

51-6505 Variable Variable

TO BE SUBMOUNTED W/ 51-5943
LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	51-6504		.080
1.50	18X12	51-6505		.080

M1 - SERIES

M1-1

INTERSTATE CONNECTICUT 00 INTERSTATE CONNECTICUT 000

51-6662 51-6666 VARIABLE: 1 or 2 DIGITS 51-6663 51-6667 VARIABLE: 3 DIGITS

LEGEND - WHITE
BACKGROUND - RED & BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.20	24X24	51-6662	1	.080
3.99	30X24	51-6663	1	.080
7.20	36X36	51-6666	2	.080
8.99	45X36	51-6667	2	.100

M1-4

00 000

51-6615 51-6635 VARIABLE: 1 or 2 DIGITS 51-6644 51-6645 VARIABLE: 3 DIGITS

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6615	1	.080
5.00	30X24	51-6644	1	.080
9.00	36X36	51-6635	2	.080
11.25	45X36	51-6645	2	.100

M1-5

00 000

51-6616 51-6636 VARIABLE: 1 or 2 DIGITS 51-6647 51-6646 VARIABLE: 3 DIGITS

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6616	1	.080
5.00	30X24	51-6647	1	.080
9.00	36X36	51-6636	2	.080
11.25	45X36	51-6646	2	.100

M2 - SERIES

M2-1

JCT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-6640	(1)	.080
2.19	21X15	51-6610	(2)	.080

M3 - SERIES

M3-1

NORTH

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6651	(1)	.080
2.00	24X12	51-6611	(2)	.080
4.50	30X18	51-6655	(1)	.080
4.50	30X18	51-6625	(2)	.080

M3-4

WEST

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6654	(1)	.080
2.00	24X12	51-6614	(2)	.080
4.50	30X18	51-6658	(1)	.080
4.50	30X18	51-6628	(2)	.080

M3-2

EAST

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6652	(1)	.080
2.00	24X12	51-6612	(2)	.080
4.50	30X18	51-6656	(1)	.080
4.50	30X18	51-6626	(2)	.080

M3-3

SOUTH

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6653	(1)	.080
2.00	24X12	51-6613	(2)	.080
4.50	30X18	51-6657	(1)	.080
4.50	30X18	51-6627	(2)	.080

M4 - SERIES

M4-5

TO

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6650	(1)	.080
2.00	24X12	51-6620	(2)	.080

M5 - SERIES

M5-1

L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2690L	(1)	.080
2.19	21X15	51-2691R	(1)	.080
2.19	21X15	51-2630L	(2)	.080
2.19	21X15	51-2631R	(2)	.080

M5-2

L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2692L	(1)	.080
2.19	21X15	51-2693R	(1)	.080
2.19	21X15	51-2632L	(2)	.080
2.19	21X15	51-2633R	(2)	.080

M6 - SERIES

M6-1

L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2686	(1)	.080
2.19	21X15	51-2626	(2)	.080

M6-4

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2697	(1)	.080
2.19	21X15	51-2627	(2)	.080

M6-2

L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2688L	(1)	.080
2.19	21X15	51-2689R	(1)	.080
2.19	21X15	51-2628L	(2)	.080
2.19	21X15	51-2629R	(2)	.080
4.89	32X22	51-2609R	(2)	.080

M6-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2685	(1)	.080
2.19	21X15	51-2625	(2)	.080

NOTES:

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2. POSTS - SEE STANDARD SHEET TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

D - SERIES
D1, 2, 3, 4, 10 BACKGROUND-GREEN, LEGEND-WHITE
D7, RS BACKGROUND-BROWN, LEGEND-WHITE
D9 BACKGROUND-BLUE, LEGEND-WHITE
ALL OTHER D-SERIES AS NOTED

E - SERIES
BACKGROUND-GREEN, LEGEND-WHITE

I - SERIES
BACKGROUND-GREEN, LEGEND-WHITE
(EXCEPT AS NOTED)

M2 - M6 SERIES
(1) BACKGROUND-BLUE, LEGEND-WHITE
(2) BACKGROUND-WHITE, LEGEND-BLACK

ALL COLORS SHALL BE TYPE IV RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.

REV.	DATE	REVISION DESCRIPTION
3	6-2015	REVISED DRAWING TITLE AND NO.
2	5-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAFTER: D.K. SWINBURNE
CHECKED BY: L.N. CONROY
Plotted: 2/19/2016

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_GS.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: Mark Makuch
DATE:

PROJECT TITLE:
SAFETY IMPROVEMENTS ON ROUTE 133

TOWN: BRIDGEWATER

DRAWING TITLE: SIGN FACE SHEET ALUMINUM
D,RS,E,I,&M SERIES SIGNS TYPICAL DETAILS

PROJECT NO. 16-98
DRAWING NO. TR-GS_03
SHEET NO. 05.15

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