

03 - HIGHWAY DESIGN

INDEX OF DRAWINGS

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HWY-01	INDEX OF DRAWINGS		
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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

Driller: T. Mallory	Connecticut DOT Boring Report		Hole No.: B-1					
Inspector: G. Arzt	Town: EAST HAVEN		Stat./Offset: 13+19/15ft LT					
Engineer: Brett McKiernan	Project No.: 0043-0128		Northing: 661700.522					
Start Date: 12/2/2010	Route No.: 100		Easting: 968830.520					
Finish Date: 12/2/2010	Bridge No.: 01665		Surface Elevation: 19.27					
Project Description: Bridge Rehabilitation								
Casing Size/Type: 4in HW		Sampler Type/Size: SS 1 3/8in		Core Barrel Type: NQ2				
Hammer Wt.: Fall:		Hammer Wt.: 140lbs Fall: 30in						
Groundwater Observations @ 23.2 after 0 hours, @ after hours, @ after hours								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %			
0						PAVEMENT STRUCTURE	6" Asphalt	
5	S-1	5 4 6 4	24	10		MISCELLANEOUS FILL	Red Brown C-F SAND, some c-f Gravel, little Silt	15
10	S-2	5 3 3 3	24	3			Brown C-F GRAVEL, some c-f Sand, tr Silt	10
15	S-3	30 50	11	6		SANDY GRAVEL	Red C-F SAND and C-F GRAVEL, little Silt	5
20	S-4	50	1	1			Red C-F SAND and C-F GRAVEL, little Silt	0
25	C-1		60	34	28	BEDROCK	Red SANDSTONE medium grained medium bedded moderately fractured moderately weathered and very strong	-5
30	C-2		60	56	40		Red SANDSTONE medium grained medium bedded moderately fractured slightly weathered and very strong	-10
35							Bottom of Boring	-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: 25 Rock: 10			NOTES: Lost water at 6.5ft. Dense layer 16ft to 18ft. Dense from 23.5ft to 25ft. No water return during core. Water coming out of south abutment during drilling.				Sheet 1 of 1	
No. of Samples: 6							SM-001-M REV. 1/02	

Driller: T. Mallory	Connecticut DOT Boring Report		Hole No.: B-2					
Inspector: G. Arzt	Town: EAST HAVEN		Stat./Offset: 14+21/26.5ft RT					
Engineer: Brett McKiernan	Project No.: 0043-0128		Northing: 661674.185					
Start Date: 12/7/2010	Route No.: 100		Easting: 968937.425					
Finish Date: 12/8/2010	Bridge No.: 01665		Surface Elevation: 15.42					
Project Description: Bridge Rehabilitation								
Casing Size/Type: 4in HW		Sampler Type/Size: SS 1 3/8in		Core Barrel Type: NQ2				
Hammer Wt.: Fall:		Hammer Wt.: 140lbs Fall: 30in						
Groundwater Observations @ 14 after 0 hours, @ after hours, @ after hours								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %			
0						MISCELLANEOUS FILL		15
5	S-1	16 28 15 8	24	12			Red Brown C-F SAND, little Silt, little c-f Gravel w/cobble	10
10	S-2	4 5 3 3	24	4			Brown C-F SAND, some c-f Gravel, little Silt	5
15	S-3	5 6 8 7	24	10			Top: Red C-F Gravel, some c-f sand, little Silt Bottom: Red Brown SILT, little c-f Gravel, little f-c Sand	0
20	S-4	8 15 11 20	24	12		WEATHERED BEDROCK	Tan C-F GRAVEL and C-F SAND, tr Silt	-5
25	S-5	5 19 11 12	24	12			Gray BASALT completely weathered	-10
30	C-1		60	57	60	BEDROCK	Red SANDSTONE medium grain medium bedded moderately fractured slightly weathered and strong	-15
35	C-2		60	60	60		Red SANDSTONE medium grain thickly bedded highly fractured slightly weathered and strong	-20
40							Bottom of Boring	
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: 30 Rock: 10			NOTES: 4 in cobble at 2.5 ft. Dense layer from 28ft to 30ft. lost wash 10'-14', 27'-30' loss of core water return 30'-31.5', 35'-40'				Sheet 1 of 1	
No. of Samples: 7							SM-001-M REV. 1/02	

Driller: T. Mallory	Connecticut DOT Boring Report	Hole No.: B-3
Inspector: G. Arzt	Town: EAST HAVEN	Stat./Offset: 13+34/13ft RT
Engineer: Brett McKiernan	Project No.: 0043-0128	Northing: 661674.915
Start Date: 12/7/2010	Route No.: 100	Easting: 968849.718
Finish Date: 12/7/2010	Bridge No.: 01665	Surface Elevation: 18.34
Project Description: Bridge Rehabilitation		
Casing Size/Type: 4in HW	Sampler Type/Size: SS 1 3/8in	Core Barrel Type: NQ2
Hammer Wt.: Fall:	Hammer Wt.: 140lbs Fall: 30in	
Groundwater Observations @ 13.3 after 0 hours, @ after hours, @ after hours		
Depth (ft)	SAMPLES 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 MISCELLANEOUS FILL 3" Asphalt 4" Concrete 15
5	S-1 3 3 3 3 24 2	Red Brown C-F GRAVEL, some c-f Sand, tr Silt, w/brick fragments 10
10	S-2 47 48 50 17 12	Red C-F SAND and C-F GRAVEL, tr Silt 5
15	S-3 28 27 37 47 24 15	Red C-F SAND, little Silt, tr f-c Gravel 0
20	S-4 50 2 2	Red C-F GRAVEL, some c-f Sand, little Silt -5
25		
30	C-1 60 60 88	Red SANDSTONE medium grained medium bedded moderately fractured slightly weathered and extremely strong -10
35	C-2 60 58 63	Red SANDSTONE medium grained medium bedded moderately fractured slightly weathered and extremely strong -15
		Bottom of Boring
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: 26.5 Rock: 10	NOTES: Soil becomes dense at 14ft, casing advanced by roller bit. Roller bit moved slowly past 18.5ft. competent rock possible at 23.5ft	Sheet 1 of 1
No. of Samples: 6		SM-001-M REV. 1/02

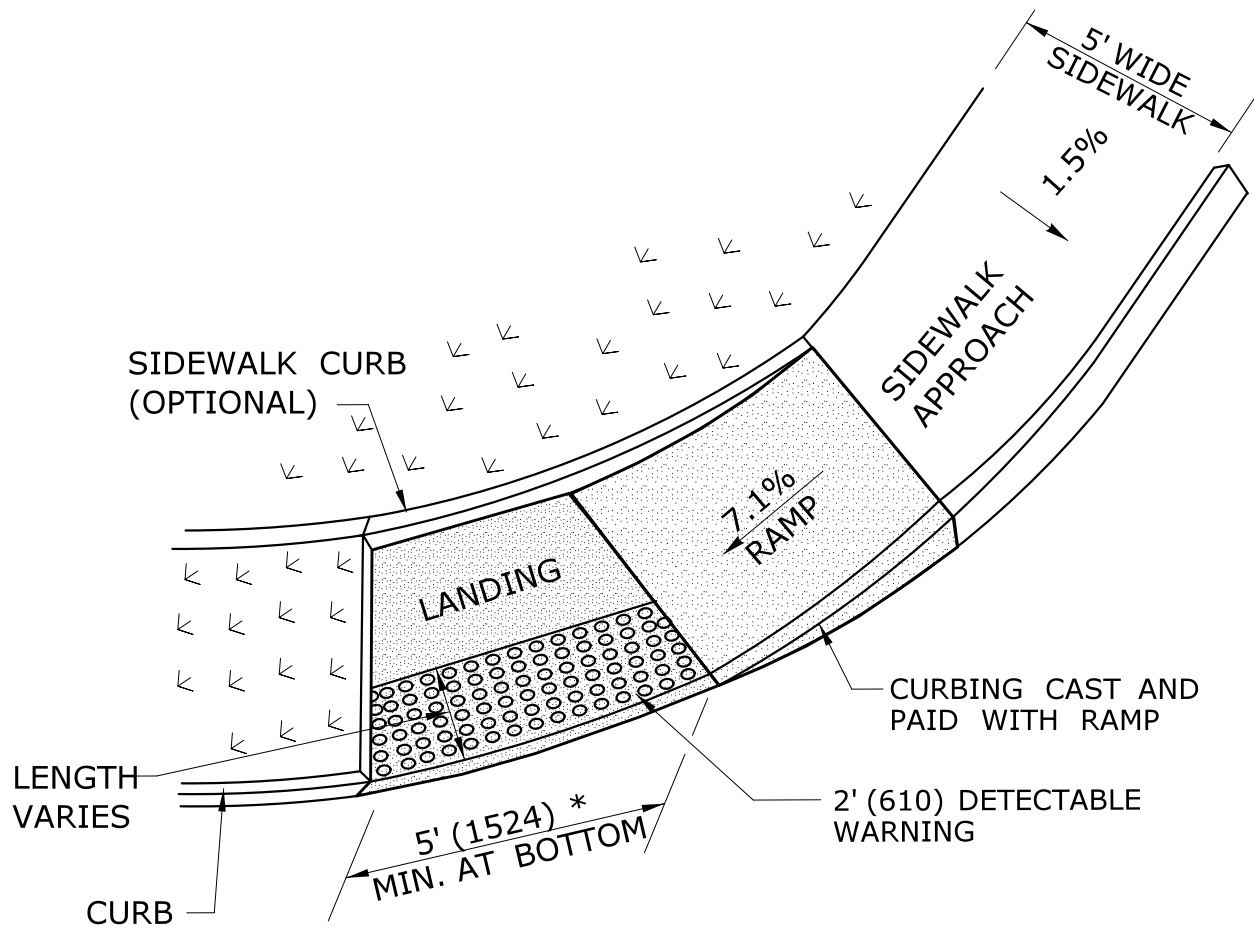
Driller: T. Mallory	Connecticut DOT Boring Report	Hole No.: B-4
Inspector: G. Arzt	Town: EAST HAVEN	Stat./Offset: 14+00/12ft LT
Engineer: Brett McKiernan	Project No.: 0043-0128	Northing: 661708.926
Start Date: 12/2/2010	Route No.: 100	Easting: 968911.702
Finish Date: 12/3/2010	Bridge No.: 01665	Surface Elevation: 15.22
Project Description: Bridge Rehabilitation		
Casing Size/Type: 4in HW	Sampler Type/Size: SS 1 3/8in	Core Barrel Type:
Hammer Wt.: Fall:	Hammer Wt.: 140lbs Fall: 30in	
Groundwater Observations @ 13.5 after 0 hours, @ after hours, @ after hours		
Depth (ft)	SAMPLES 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 MISCELLANEOUS FILL 4" Asphalt 8" Concrete 15
5	S-1 5 5 5 4 24 4	Brown C-F GRAVEL and C-F SAND, tr Silt 10
10	S-2 50 3 2	Brown C-F GRAVEL, little f-c Sand, tr Silt w/cobble 5
15	S-3 3 6 8 2 24 10	Dark Gray C-F SAND and C-F GRAVEL, tr Silt 0
20	C-1 60 10 0	Dark Gray BASALT fine grained laminated bedding highly fractured slightly weathered and strong -5
25	S-4 50 50 8 7	Brown C-F Gravel, little Silt, tr f-c Sand -10
30	C-2 60 42 22	Gray BASALT fine grained medium bedded highly fractured moderately weathered and Strong -15
35	C-3 60 57 95	Red SANDSTONE medium grained massive bedding moderately fractured slightly weathered and extremely strong -20
40		Bottom of Boring
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: 30 Rock: 10	NOTES: lost wash at 10 ft 6 in cobble at 12.3ft, 6 in cobble at 18ft dense layers with alternating wash colors from 23.5-30ft	Sheet 1 of 1
No. of Samples: 7		SM-001-M REV. 1/02

Driller: T. Mallory	Connecticut DOT Boring Report		Hole No.: RW-1					
Inspector: G. Arzt	Town: EAST HAVEN	Stat./Offset: 14+15/53ft LT						
Engineer: Brett McKiernan	Project No.:0043-0128		Northing: 661752.404					
Start Date: 12/1/2010	Route No.: 100		Easting: 968920.789					
Finish Date:12/1/2010	Bridge No.: 01665		Surface Elevation: 7.36					
Project Description:Bridge Rehabilitation								
Casing Size/Type:4in HW	Sampler Type/Size:SS 1 3/8in		Core Barrel Type:NQ2					
Hammer Wt.: Fall:	Hammer Wt.:140lb Fall: 30in							
Groundwater Observations @2.1 after 0 hours,@ after hours,@ after hours								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches		Pen. (in.)	Rec. (in.)			
0							MISCELLANEOUS FILL	5
5	S-1	3 2 2 6		24	2		Brown C-F GRAVEL, little c-f Sand, little Silt, w/cobble	0
10	S-2	16 19 33 67		24	13		WEATHERED BEDROCK	-5
15	S-3	18 42 50		13	10		Dark Gray C-F GRAVEL, little Silt, tr. f-c Sand	-10
20	C-1			60	12	0	BEDROCK	-15
25	C-2			60	20	0	Dark Gray BASALT coarse grained laminated bedding highly fractured slightly weathered and strong Dark Gray BASALT coarse grained laminated bedding highly fractured moderately weathered and medium strong	-20
							Bottom of Boring	
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: 17.5 Rock: 10				NOTES: 9.5ft soil became dense, glass and shells noted in wash			Sheet 1 of 1	
No. of Samples: 5							SM-001-M REV. 1/02	

GENERAL NOTES:

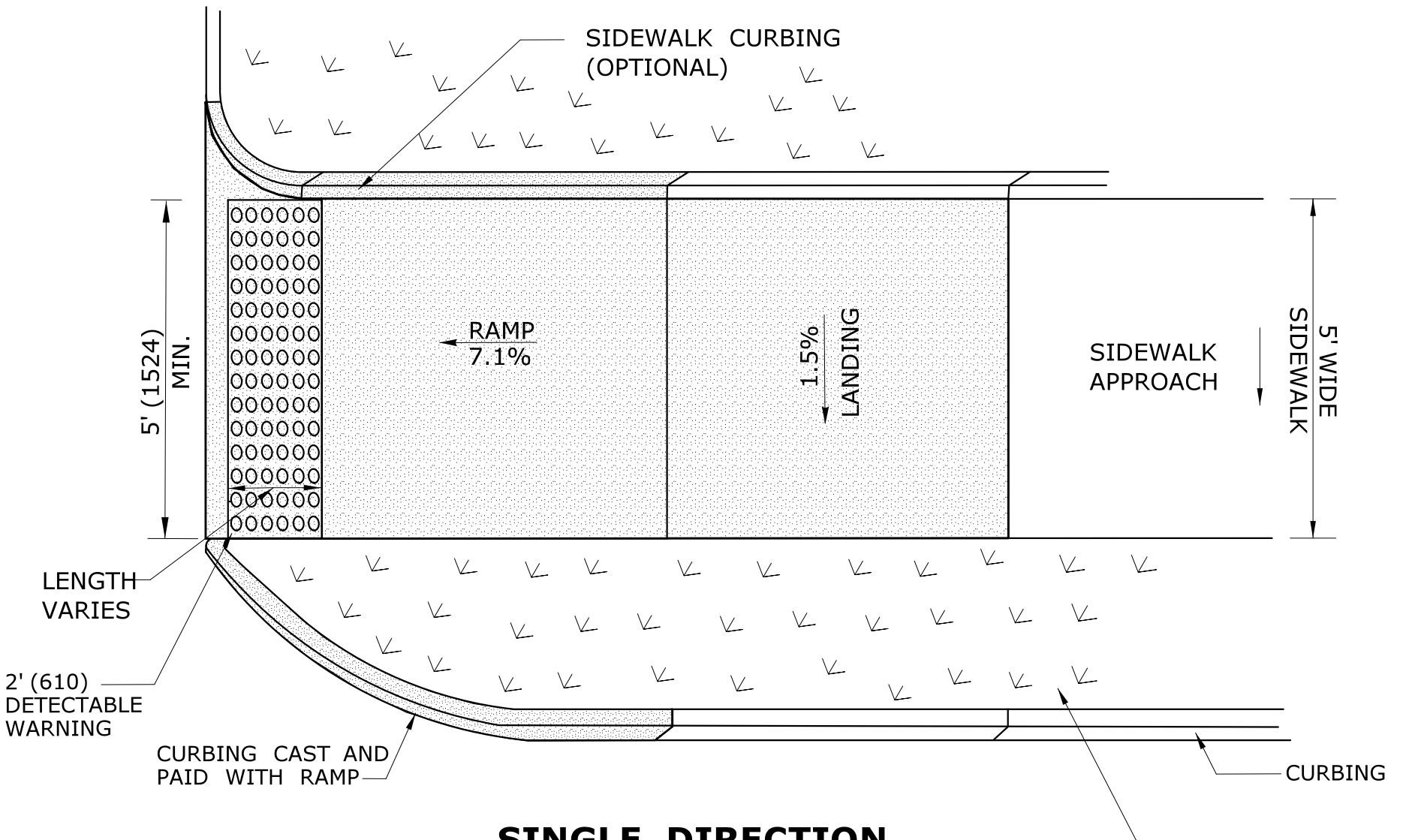
1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP SHOULD NOT EXCEED 5%. THE MAXIMUM GRADE DIFFERENCE BETWEEN THE GUTTER AND CURB RAMP SHALL NOT EXCEED 13%. SEE DETAIL 1 ON MDS-02.
2. RAMP GRADE SHALL BE UNIFORM, FREE OF SAGS AND ABRUPT GRADE CHANGES. RUNNING SLOPES OF RAMPS SHALL NOT EXCEED 8.33% AND SHALL NOT EXCEED 15' (4.5m) WITHOUT PROVIDING A LANDING.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "F" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE OF ALL SIDEWALK RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT. SURFACE DISCONTINUITIES SHALL NOT EXCEED 1/2" (13) MAX. VERTICAL DISCONTINUITIES BETWEEN 1/4" (6.4) AND 1/2" (13) MAX. SHALL BE BEVELED 1:2 MINIMUM APPLIED ACROSS THE ENTIRE LEVEL CHANGE.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. DIAGONAL AND PERPENDICULAR RAMPS SHALL HAVE THE RAMP CUT PERPENDICULAR TO THE TANGENT OF THE CURB RADIUS FOR THE DESIGNATED ACCESSIBLE ROUTE. BOTH LONGITUDINAL SIDES OF THE RAMP SHOULD BE THE SAME LENGTH. SKEWED RAMPS SHOULD BE AVOIDED. FLARES ARE NOT CONSIDERED PART OF PEDESTRIAN ACCESS ROUTE. DIAGONAL RAMPS SHOULD NOT BE INSTALLED WHERE CURB RADII IS LESS THAN 20'(6096).
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT. 8.3% MAXIMUM SLOPE MAY NOT BE ACHIEVABLE DUE TO EXISTING SIDEWALK GRADE. IN RECOGNITION OF THIS, A LIMIT OF 15' (4572) FOR REMOVAL SHALL BE USED UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK RAMP" OR "CONCRETE SIDEWALK".
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' (3658) UNLESS OTHERWISE NOTED.
8. CONCRETE SIDEWALK RAMPS, SHALL BE PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK RAMP", AS DEFINED BY THE CONSTRUCTION LIMITS ON THE PLANS AND SHALL BE FIELD VERIFIED.
9. SIDEWALK RAMPS SHALL BE CONSTRUCTED WITH THE TOE AT THE GUTTER CAST INTEGRALLY WITH RAMP UNLESS DIRECTED OTHERWISE BY THE ENGINEER (SEE TYPICAL SECTION BELOW). CURB REMOVAL AND CAST IN PLACE CURBING REQUIRED FOR THE RAMP, SHALL BE INCLUDED WITH PAY ITEM "CONCRETE SIDEWALK RAMP". CURBING OUTSIDE LIMITS OF RAMP OR LANDING SHOWN BELOW SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
10. PREFERRED LOCATION TO INSTALL DETECTABLE WARNING STRIP SHALL BE 6" (152) FROM THE EDGE OF ROAD ALONG THE FULL WIDTH OF THE RAMP. FOR ALTERNATE LOCATIONS, REFER TO DETECTABLE WARNING PLACEMENT DETAILS ON MDS-02.
11. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF RUNNING SLOPE (PERPENDICULAR TO CURB OR SLOPE BREAK). THE TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH WITHOUT A LIP.
12. WHERE COMMERCIAL DRIVEWAYS ARE PROVIDED WITH TRAFFIC SIGNALS AND THE SIDEWALK IS CONTINUOUS THROUGH DRIVEWAY, DETECTABLE WARNINGS ARE REQUIRED AT THE JUNCTION BETWEEN THE PEDESTRIAN ROUTE AND DRIVEWAY.
13. CONSTRUCT A SIDEWALK CURB WHEN THERE IS INSUFFICIENT BUFFER AVAILABLE TO GRADE OR WHEN CALLED FOR IN PLANS. PAID FOR WITH SIDEWALK RAMP WHEN REQUIRED FOR RAMP.
14. THE TOP AND BOTTOM OF RAMPS SHOULD BE PROVIDED WITH A 4' x 4' (1219 x 1219) MINIMUM LEVEL LANDING AREA WITH A CROSS SLOPE LESS THAN OR EQUAL TO 2% IN ANY DIRECTION.
15. UTILITY POLES, LUMINAIRE, PEDESTRIAN OR SIGNAL POLES, GRATES, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON RAMPS, LANDINGS, BLENDED TRANSITIONS, AND @ GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.
16. APPROACH SIDEWALK WIDTHS, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
17. APPROACH SIDEWALK AND LANDING CROSS SLOPE SHALL NOT EXCEED 2%.
18. THE RUNNING OR CROSS SLOPES ON LANDINGS AT MID BLOCK CROSSING MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
19. FOR PERPENDICULAR CURB RAMPS A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE TOP OF CURB RAMP. WHERE THE LEVEL LANDING IS RESTRICTED AT THE BACK OF SIDEWALK THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE RAMP RUN.
20. FOR PARALLEL CURB RAMPS, A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE BOTTOM OF CURB RAMP. IF THE LEVEL LANDING IS RESTRICTED ON 2 OR MORE SIDES, THE LEVEL LANDING SHALL BE 4'(1.2m)x 5'(1.5m) WITH THE 5' (1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
21. WHEN WIDTH OF SIDEWALK IS ≥48" AND A PERPENDICULAR SIDEWALK RAMP IS INSTALLED, THE FLARED SIDES SHALL BE 10% MAX. IF WIDTH OF SIDEWALK IS <48" THE FLARED SIDES MUST NOT EXCEED 8.33% (12:1).
22. SHADED AREAS ARE TYPICAL PAY LIMITS FOR CONCRETE SIDEWALK RAMP BUT, MAY VARY AS DIRECTED BY THE ENGINEER.
23. OPTIONAL RAMP, WHEN REQUIRED, SHALL BE PAID FOR AS PART OF CONCRETE SIDEWALK RAMP.

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED



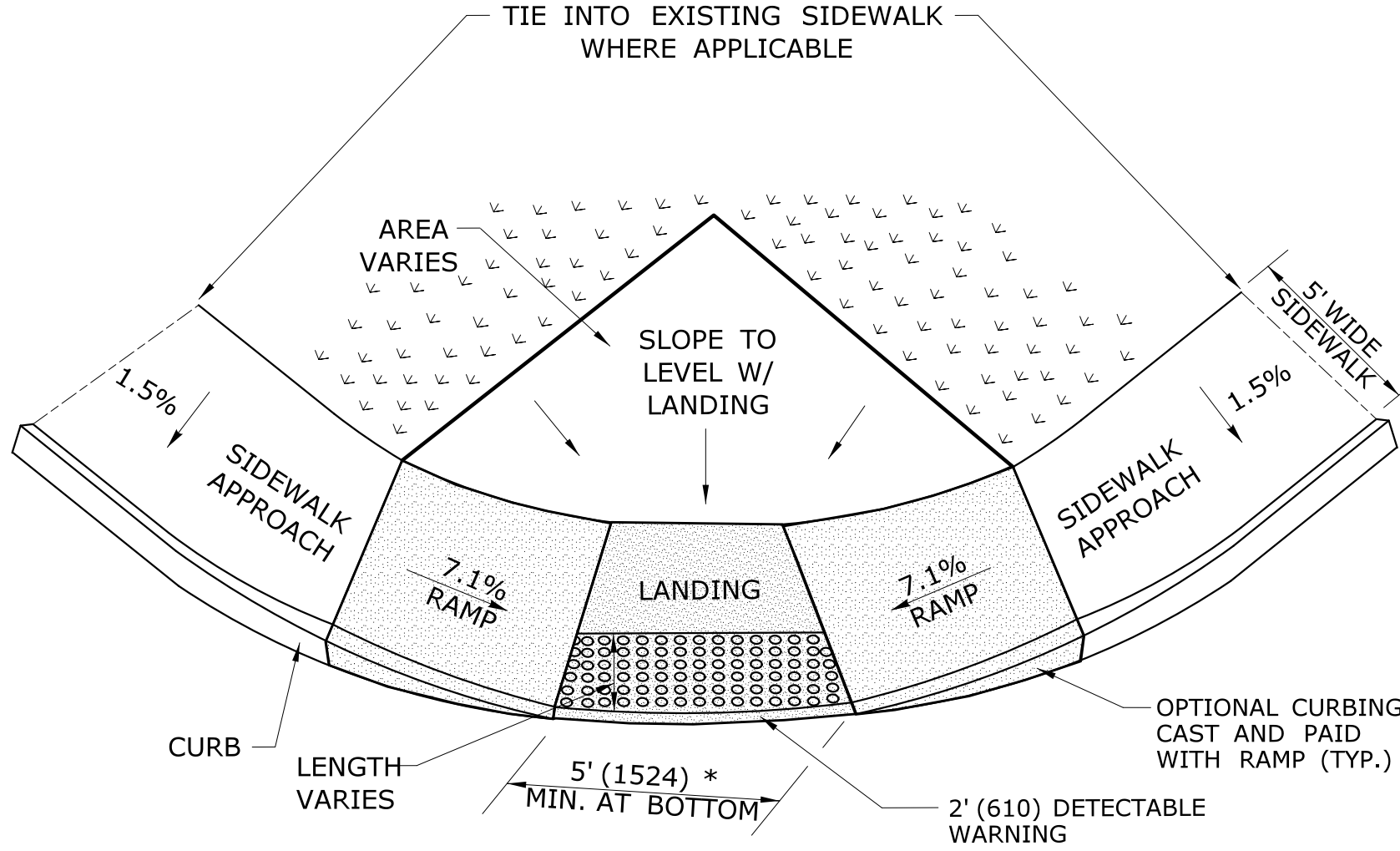
**SINGLE PARALLEL SIDEWALK RAMP
W/LANDING AT BOTTOM ON
CORNER (TYPE 4c)**

* SEE NOTE 20



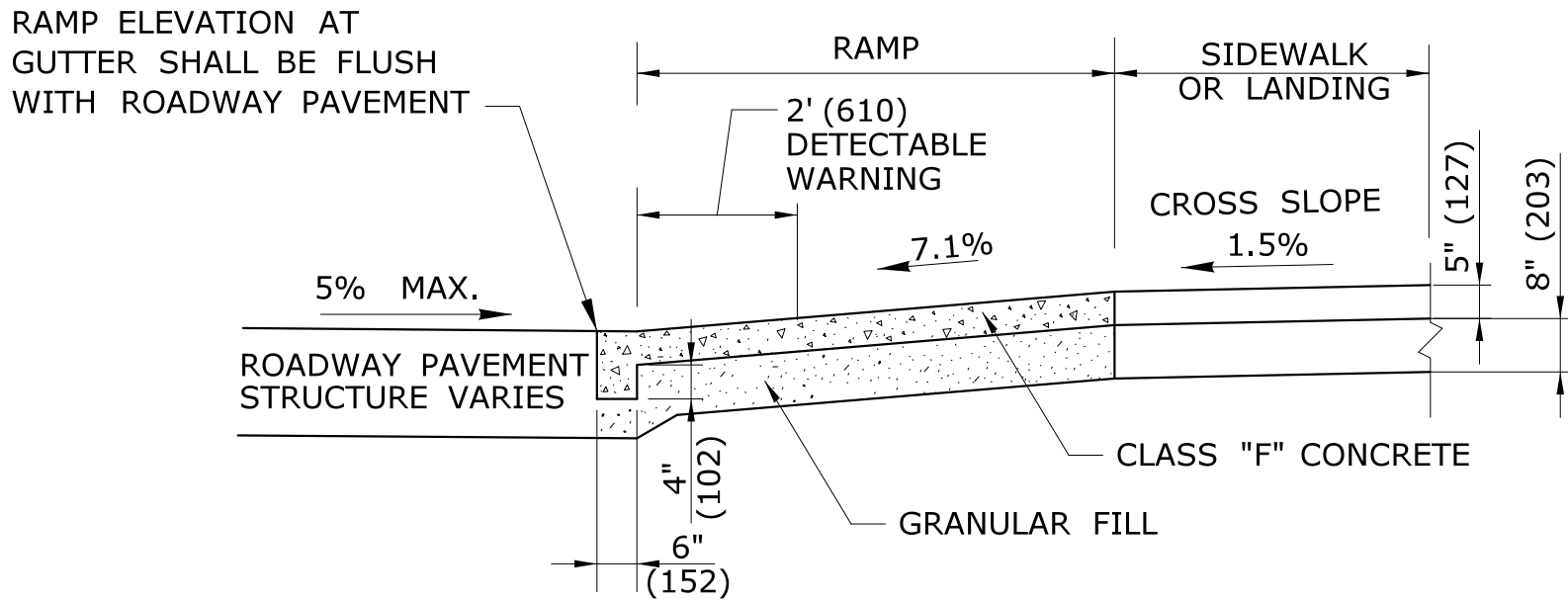
**SINGLE DIRECTION
PERPENDICULAR SIDEWALK RAMP
W/ UTILITY GRASS STRIP (TYPE 4e)**

REFER TO DETECTABLE WARNING PLACEMENT DETAIL MDS-02



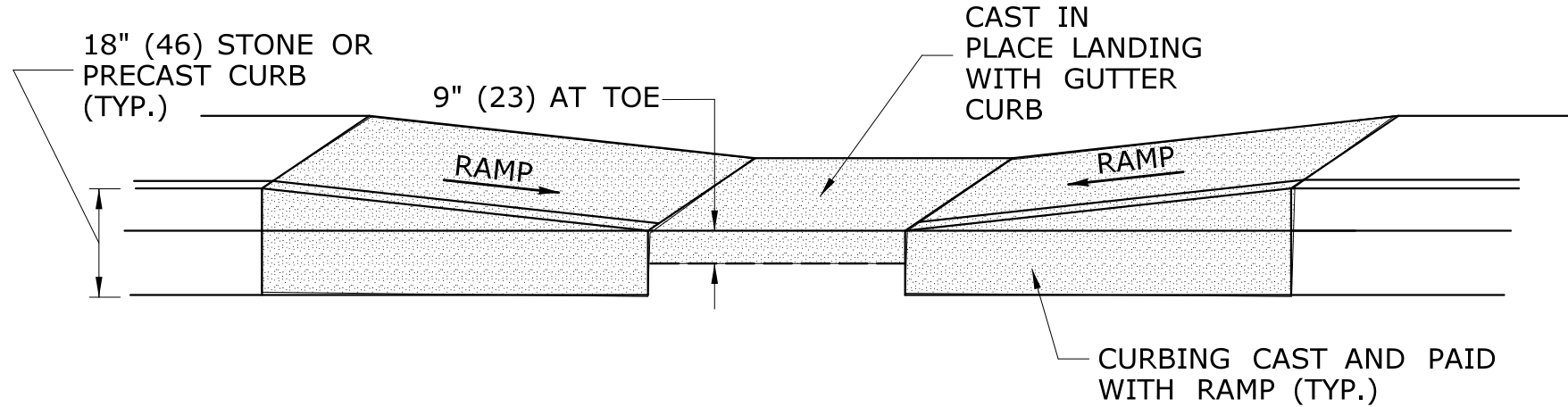
**DOUBLE PARALLEL SIDEWALK RAMP
W/LANDING AT BOTTOM ON CORNER (TYPE 4f)**

* SEE NOTE 20



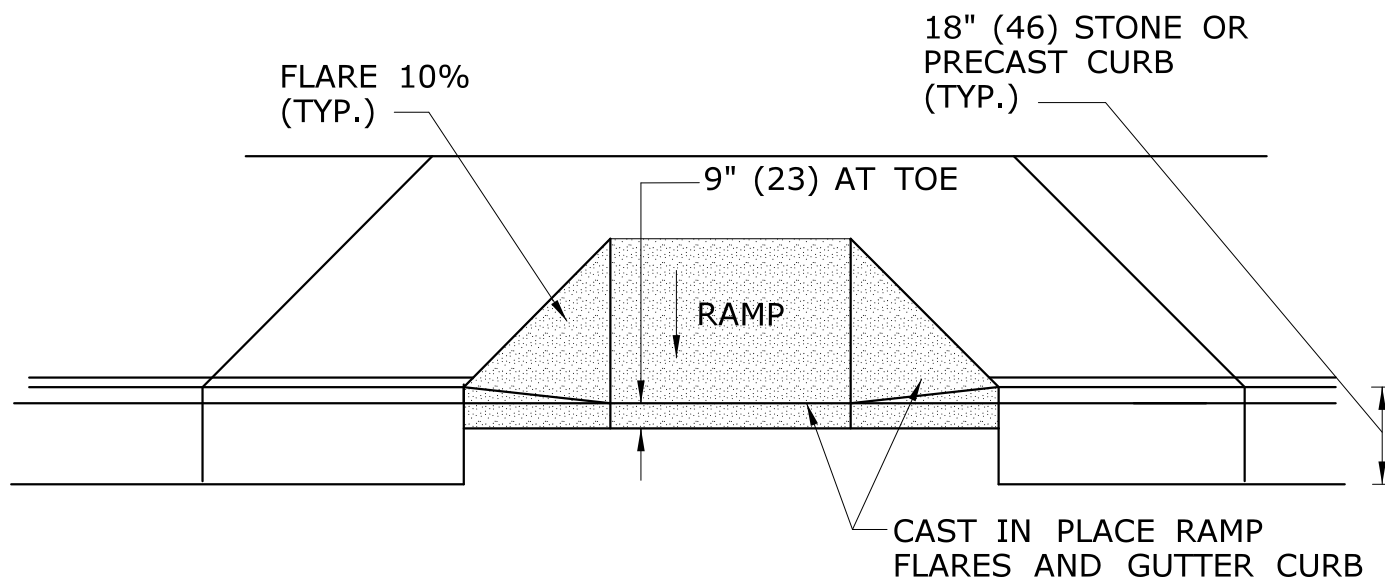
TYPICAL SECTION THRU SIDEWALK RAMP

SEE NOTES 2 AND 17






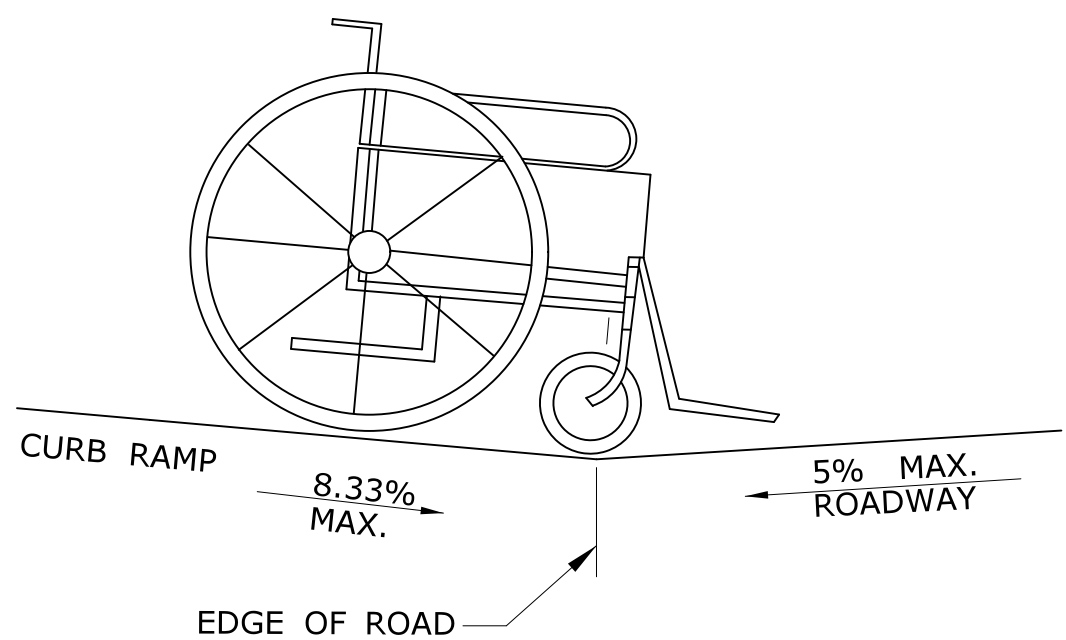
TYPICAL ELEVATION PARALLEL SIDEWALK RAMP

WITH CAST IN PLACE GUTTER

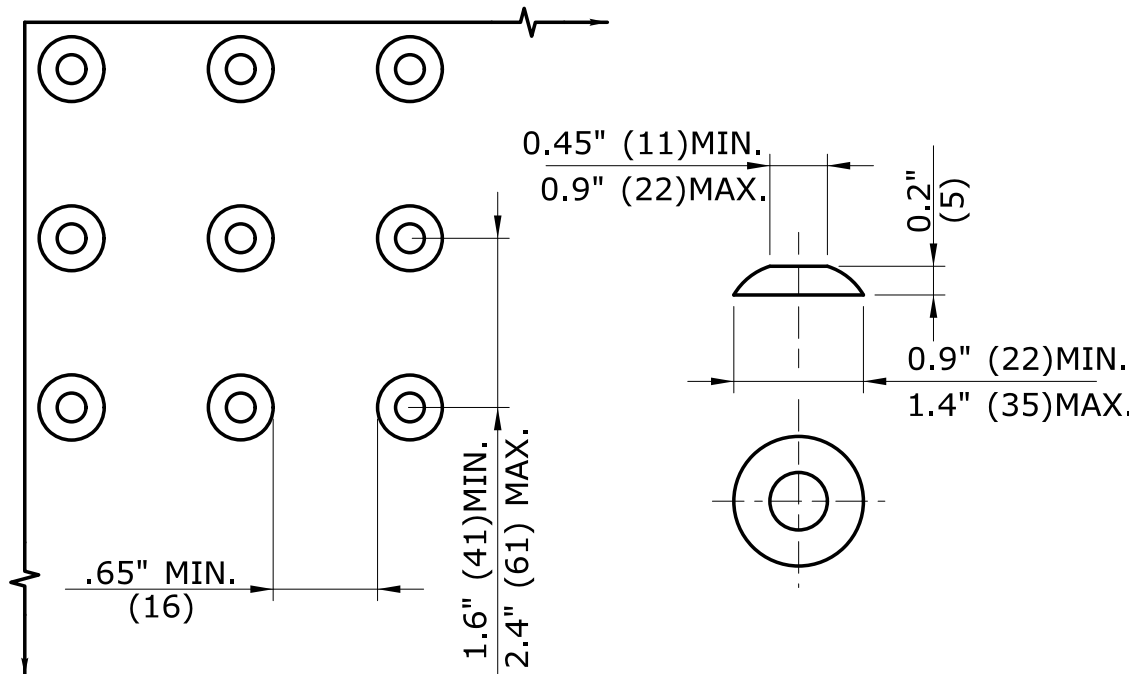


TYPICAL ELEVATION PERPENDICULAR SIDEWALK RAMP

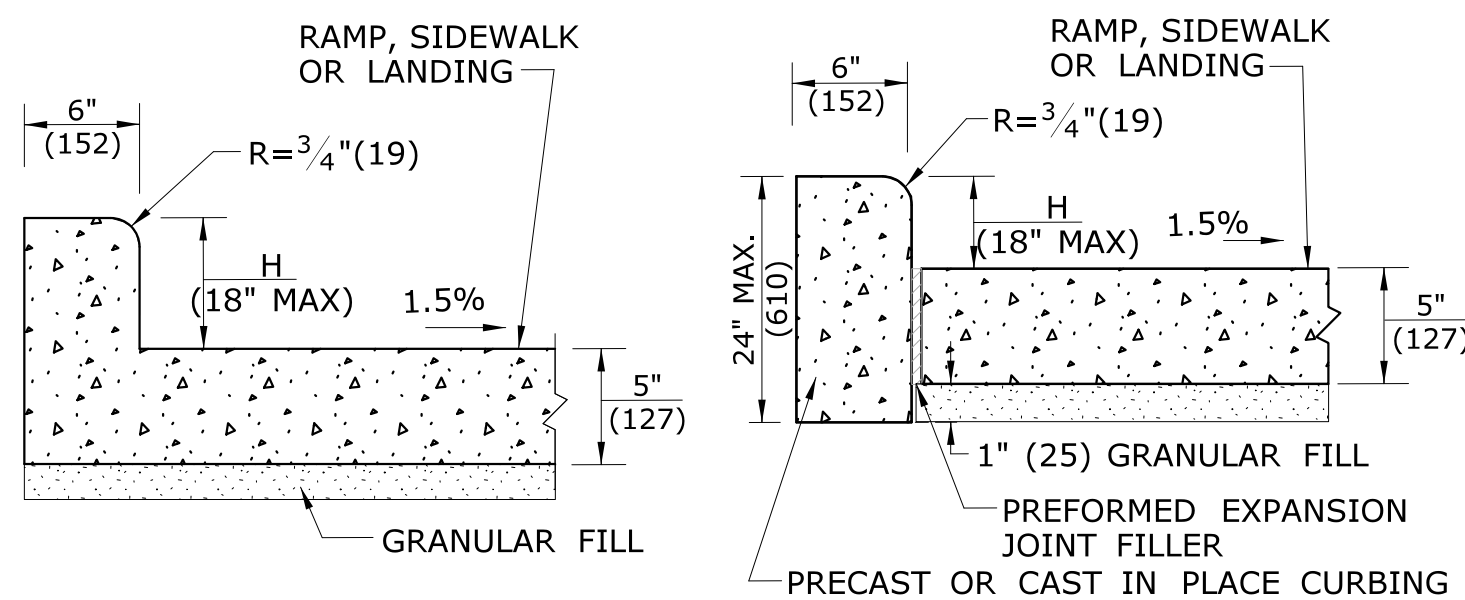
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				CHECKED BY: PM								APPROVED BY: 	DRAWING TITLE: MISCELLANEOUS DETAILS	SHEET NO. 03.05
				SCALE AS NOTED										
				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		Plotted Date: 1/5/2015		Filename: ...\\HW_MST_0043_0128_MDS-01.dgn						
REV.	DATE	REVISION DESCRIPTION	SHEET NO.											



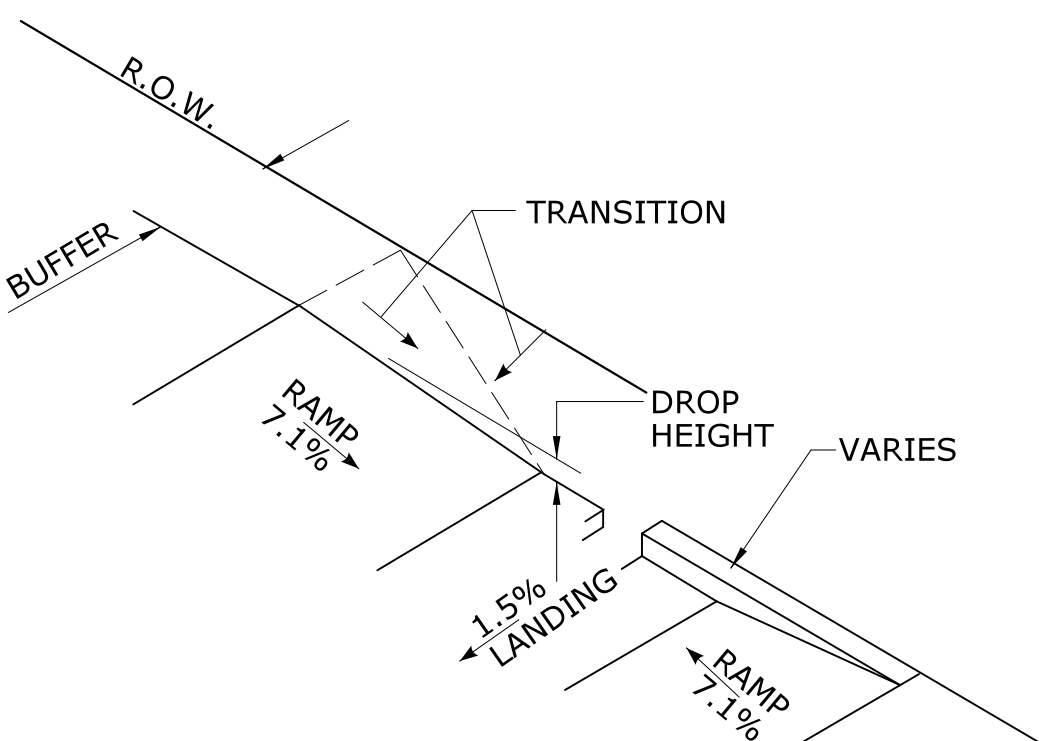
DETAIL 1
SEE GRADE CHANGE AT ROADWAY INTERFACE
SEE NOTE 1 MDS-01



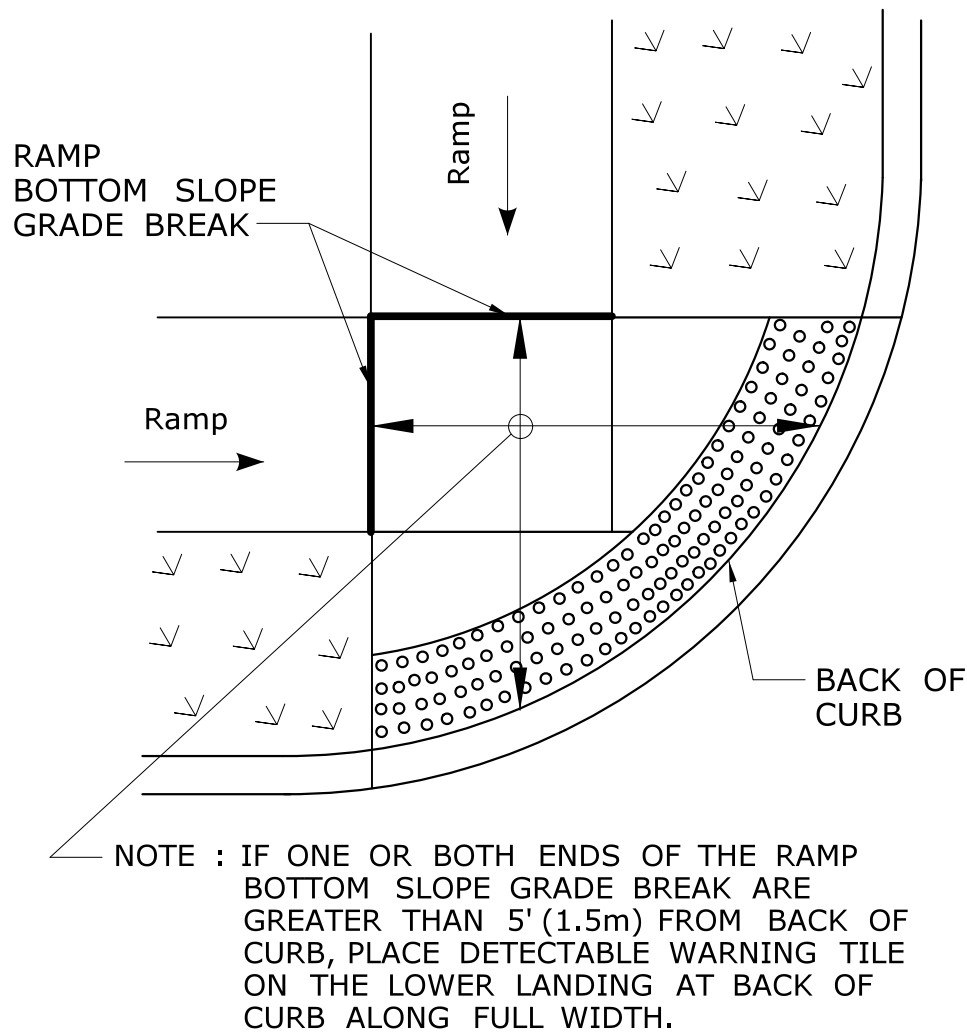
DOME SPACING **DOME SECTION**
STANDARD DOME ON DETECTABLE WARNING TILES



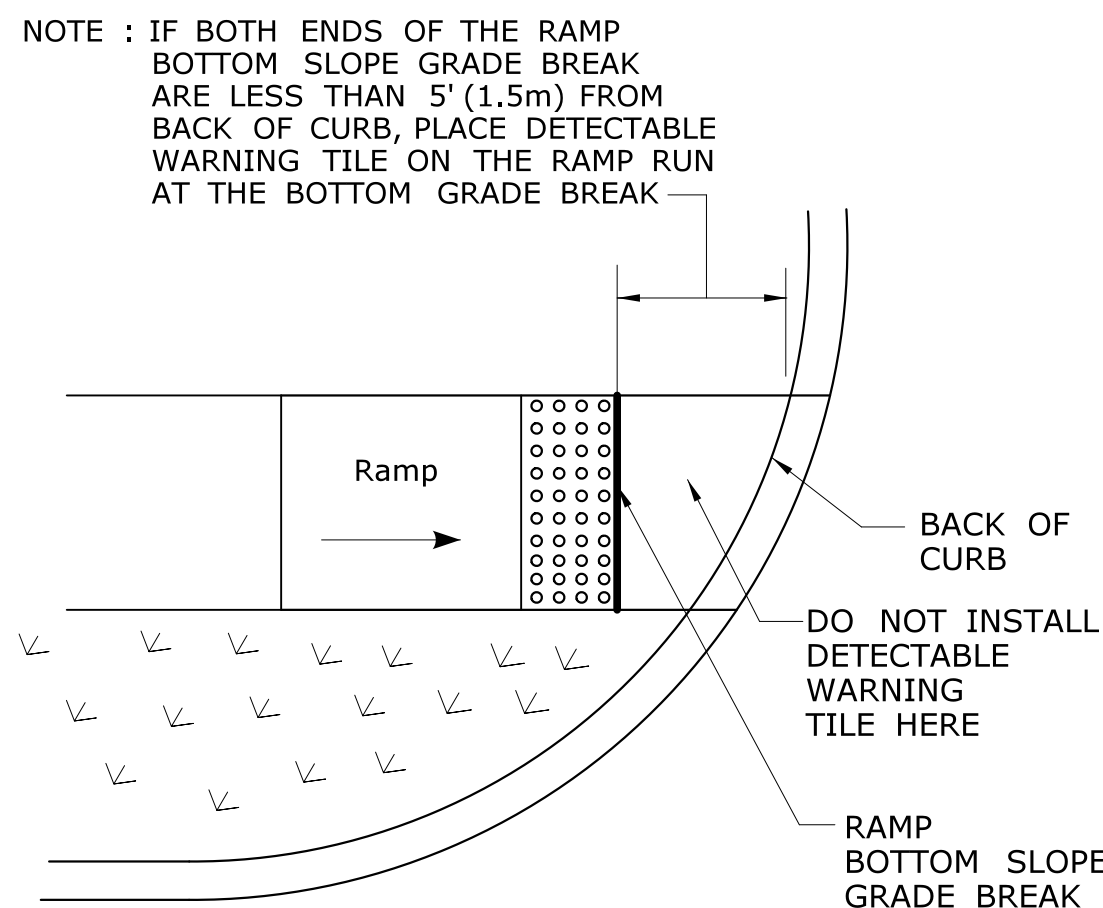
MONOLITHIC CAST CURB **SEPARATELY CAST CURB**
SIDEWALK CURB OPTIONS AT BACK OF SIDEWALK



BACK OF SIDEWALK CURB OR
BUFFER TRANSITION



DETECTABLE WARNING
PLACEMENT DETAIL 1






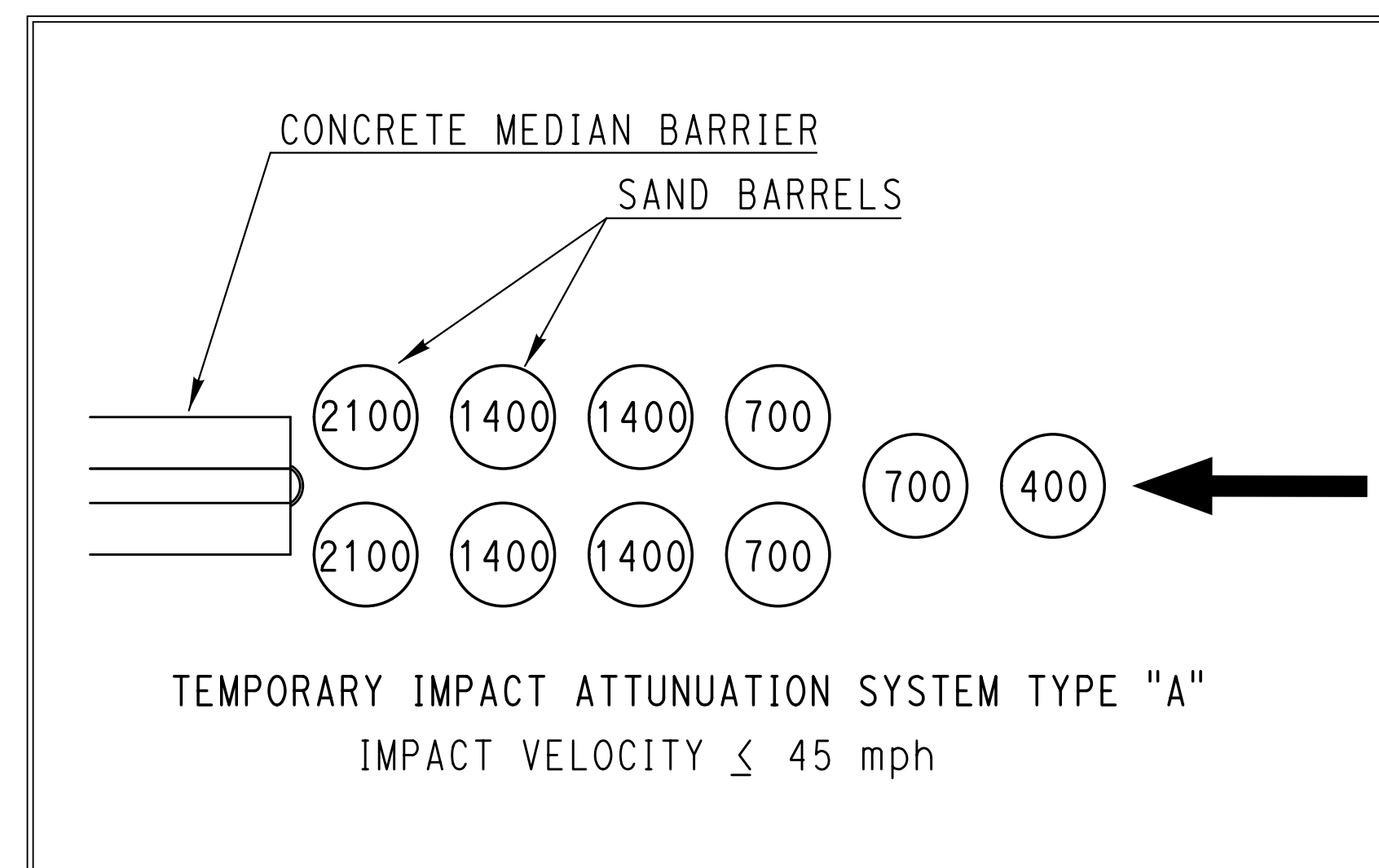
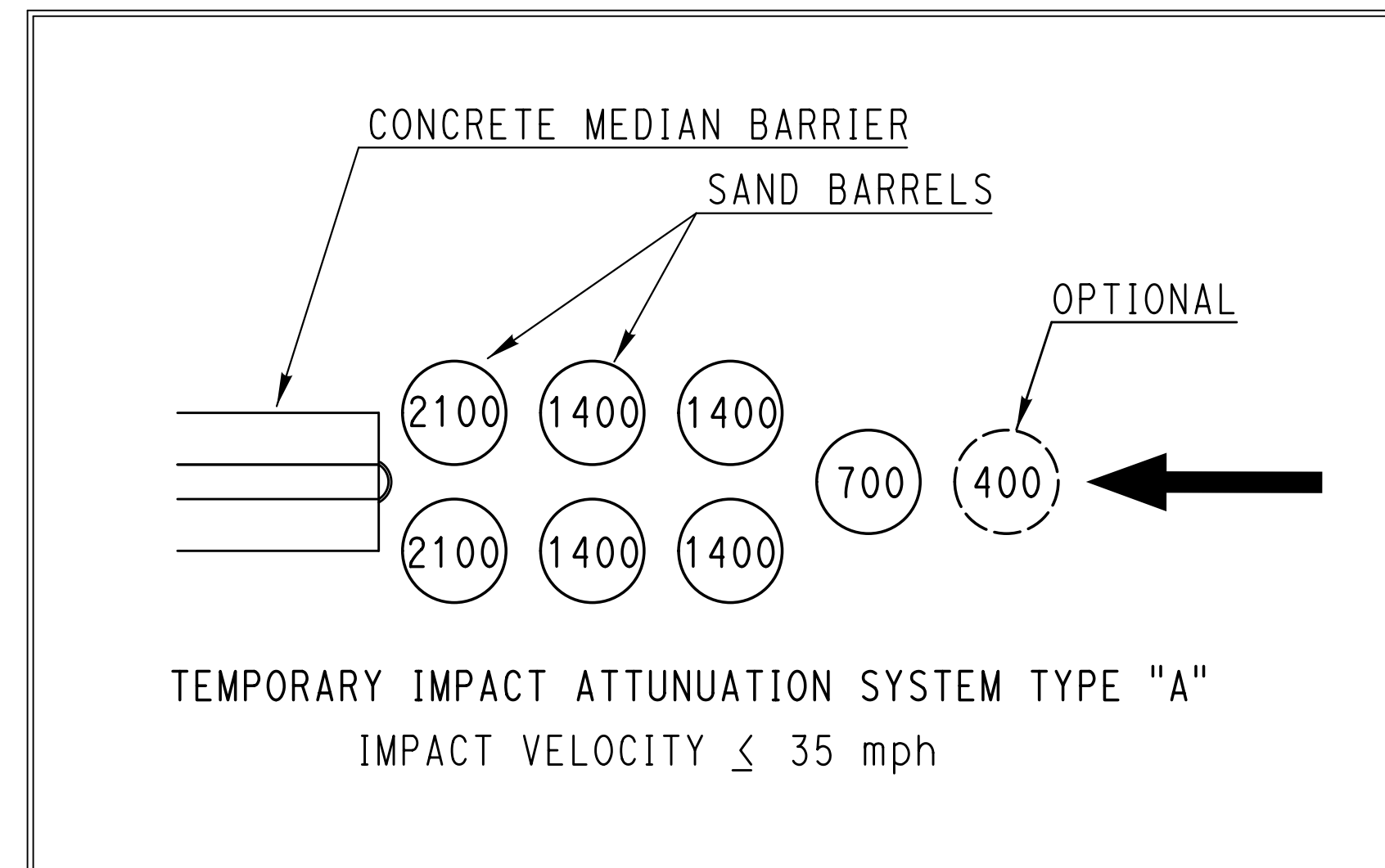
DETECTABLE WARNING
PLACEMENT DETAIL 2

GENERAL NOTES:

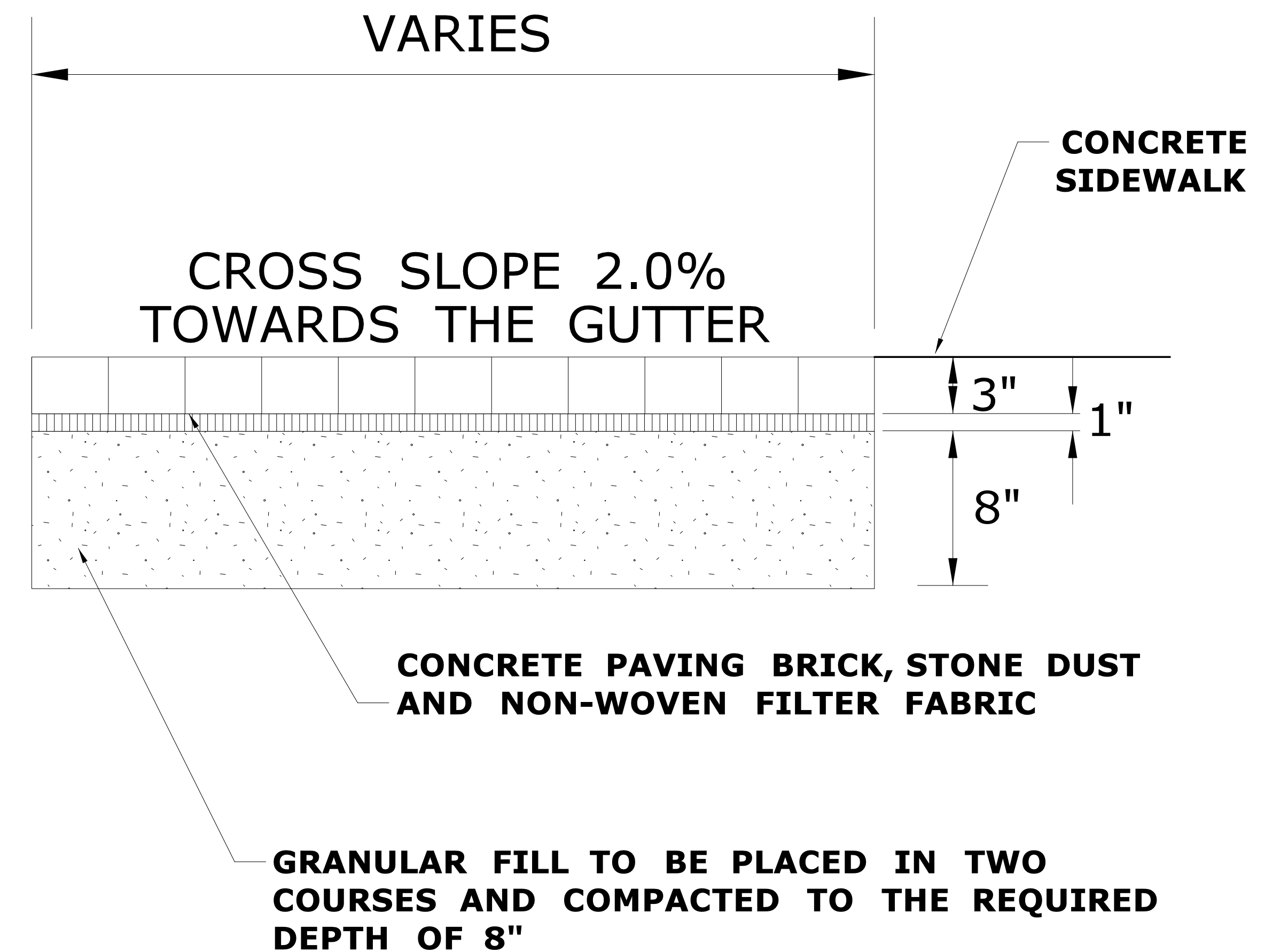
1. SEE GENERAL NOTES ON MDS-01.

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

				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.		DESIGNER/DRAFTER: JB/JS		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK: OFFICE OF ENGINEERING		PROJECT TITLE: REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1		TOWN: EAST HAVEN		PROJECT NO. 43-128		
						CHECKED BY: PM				APPROVED BY: 		DRAWING TITLE: MISCELLANEOUS DETAILS		DRAWING NO. MDS-02				
						SCALE AS NOTED				Filename: ...\\HW_MST_0043_0128_MDS-02.dgn				SHEET NO. 03.06				
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 11/18/2014													



TEMPORARY IMPACT ATTENUUATION SYSTEM TYPE "A" DETAIL (NOT TO SCALE)

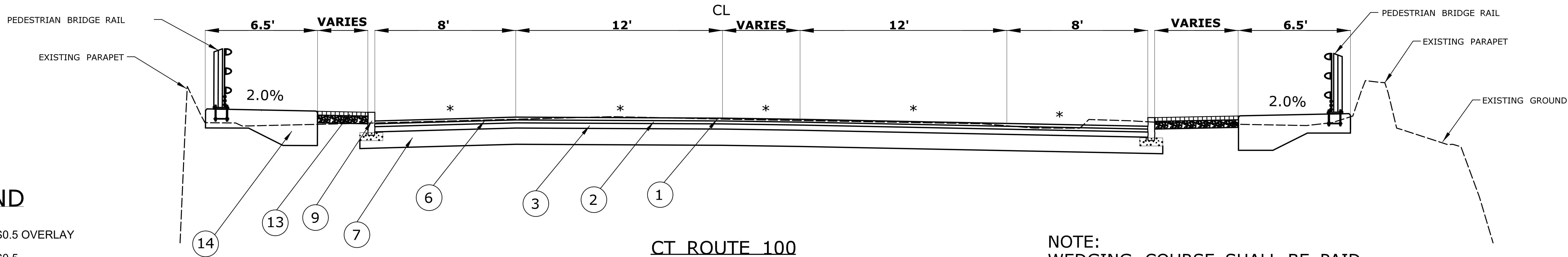


CONCRETE PAVING BRICK DETAIL (NOT TO SCALE)

[illegible]

LEGEND

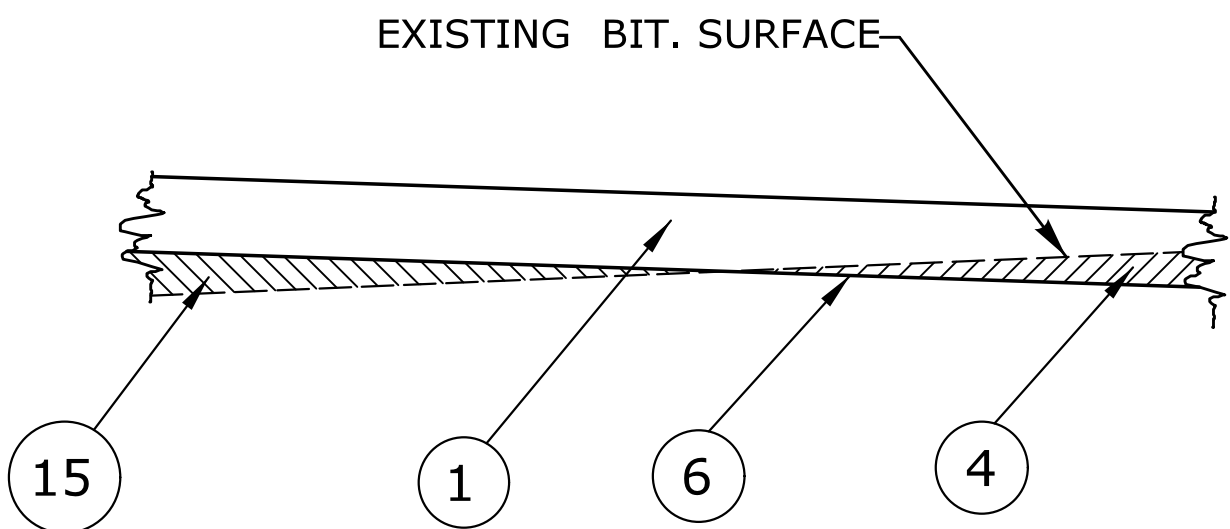
- 1 2" HMA S0.5 OVERLAY
- 2 2" HMA S0.5
- 3 4" HMA S1.0
- 4 MILLING (0-4")
- 5 MILLING (>4-8")
- 6 MATERIAL FOR TACK COAT
- 7 12" SUBBASE (20" IN ROCK CUT)
- 8 BITUMINOUS CONCRETE LIP CURBING
- 9 5" GRANITE STONE CURBING
- 10 CONCRETE SIDEWALK
- 11 FURNISH AND PLACE TOPSOIL
- 12 TURF ESTABLISHMENT
- 13 CONCRETE PAVING BRICK
- 14 CONCRETE FOOTING
- 15 WEDGING



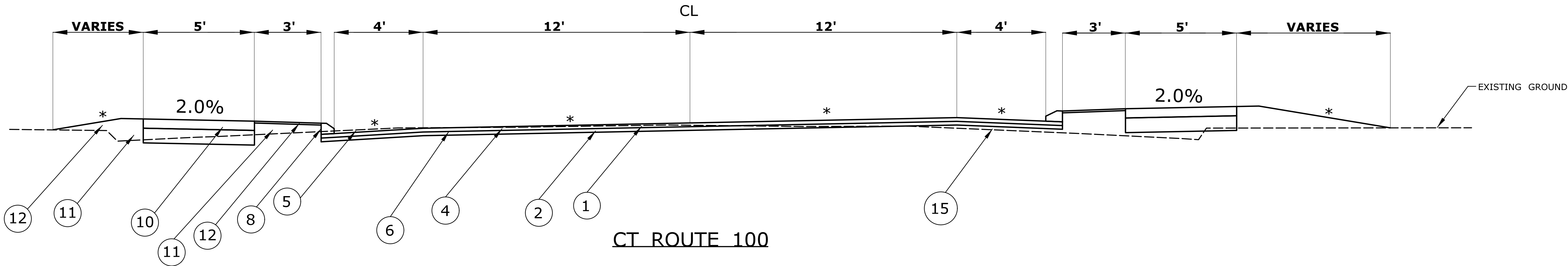
CT ROUTE 100
BRIDGE
FROM STA. 15+50 TO STA. 17+50*
NOT TO SCALE

* SEE CROSS SECTIONS

NOTE:
WEDGING COURSE SHALL BE PAID
FOR UNDER THE ITEM HMA S0.5





DETAIL "A" MILLING AND WEDGING



CT ROUTE 100
FROM STA. 8+50 TO STA. 15+50
NOT TO SCALE

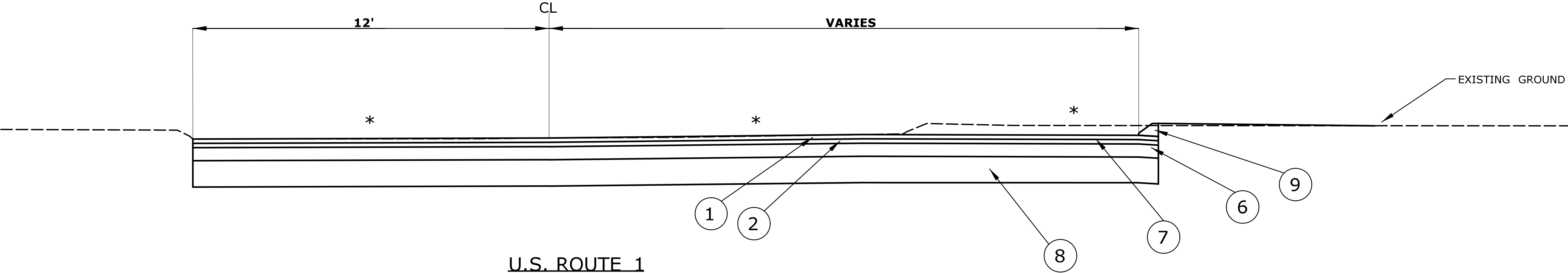
* SEE CROSS SECTIONS

* TEST PITS MUST BE PERFORMED AT THE
CROWN OF THE BRIDGE ARCH PRIOR TO THE
EXCAVATION FOR FULL DEPTH RECONSTRUCTION

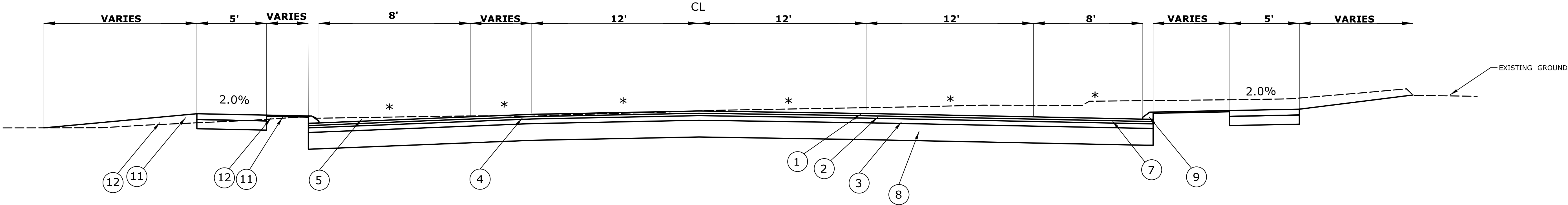
				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: JB/JS		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1	TOWN: EAST HAVEN	PROJECT NO. 43-128			
						CHECKED BY: PM							APPROVED BY: 	DRAWING TITLE: TYPICAL SECTIONS	DRAWING NO. TYP-01
						SCALE AS NOTED									
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/13/2015		Filename: ...\\HW..MSH..0043..0128..TYP-01.dgn									

LEGEND



- ① 2" HMA S0.5 OVERLAY
- ② 2" HMA S0.5
- ③ 4" HMA S1.0
- ④ MILLING (0-4")
- ⑤ MILLING (>4-8")
- ⑥ 6" HMA S1.0
- ⑦ MATERIAL FOR TACK COAT
- ⑧ 12" SUBBASE (20" IN ROCK CUT)
- ⑨ BITUMINOUS CONCRETE LIP CURBING
- ⑩ CONCRETE SIDEWALK
- ⑪ FURNISH AND PLACE TOPSOIL
- ⑫ TURF ESTABLISHMENT

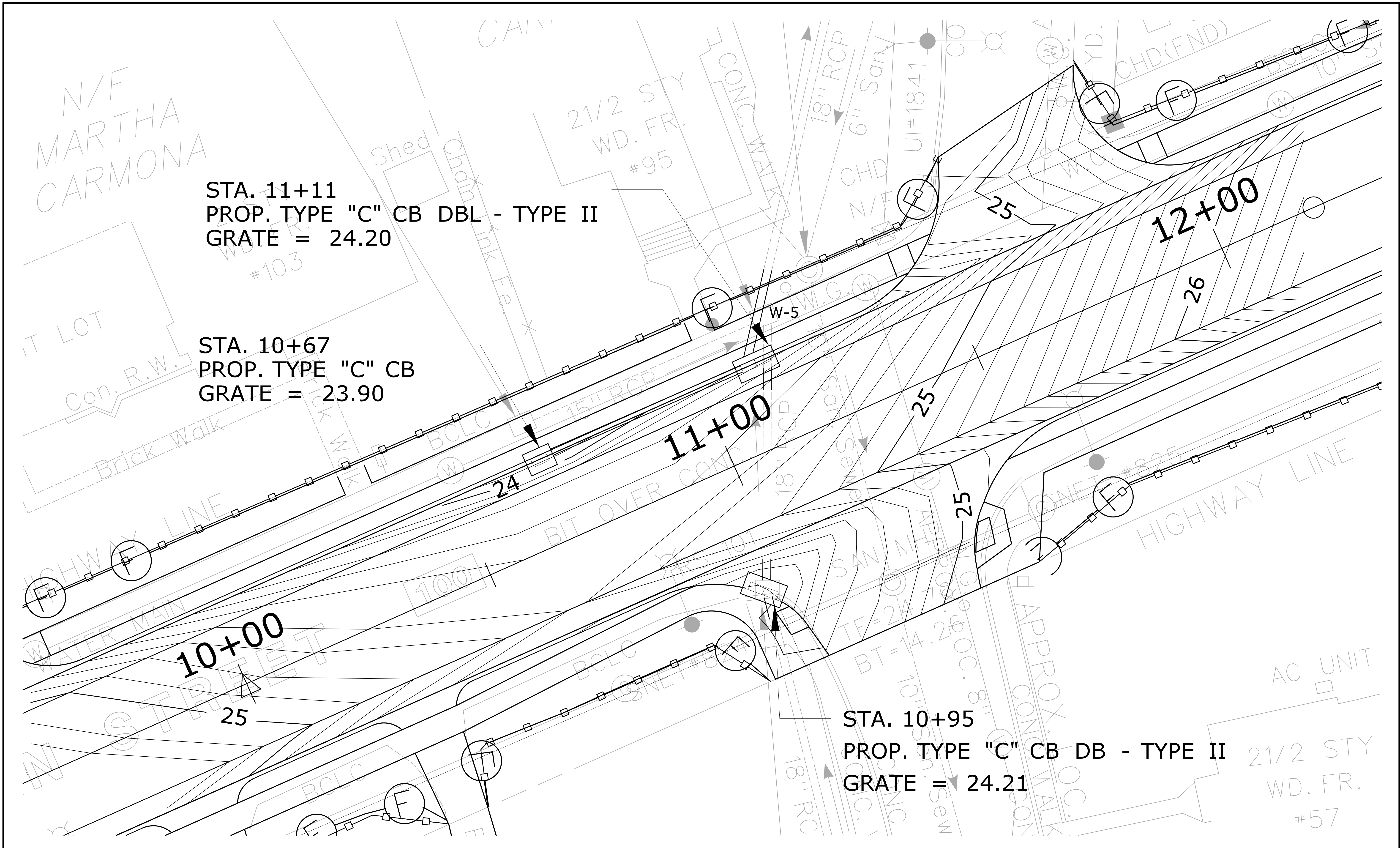




U.S. ROUTE 1
FROM STA. 2+00 TO STA. 5+10
NOT TO SCALE
* SEE CROSS SECTIONS

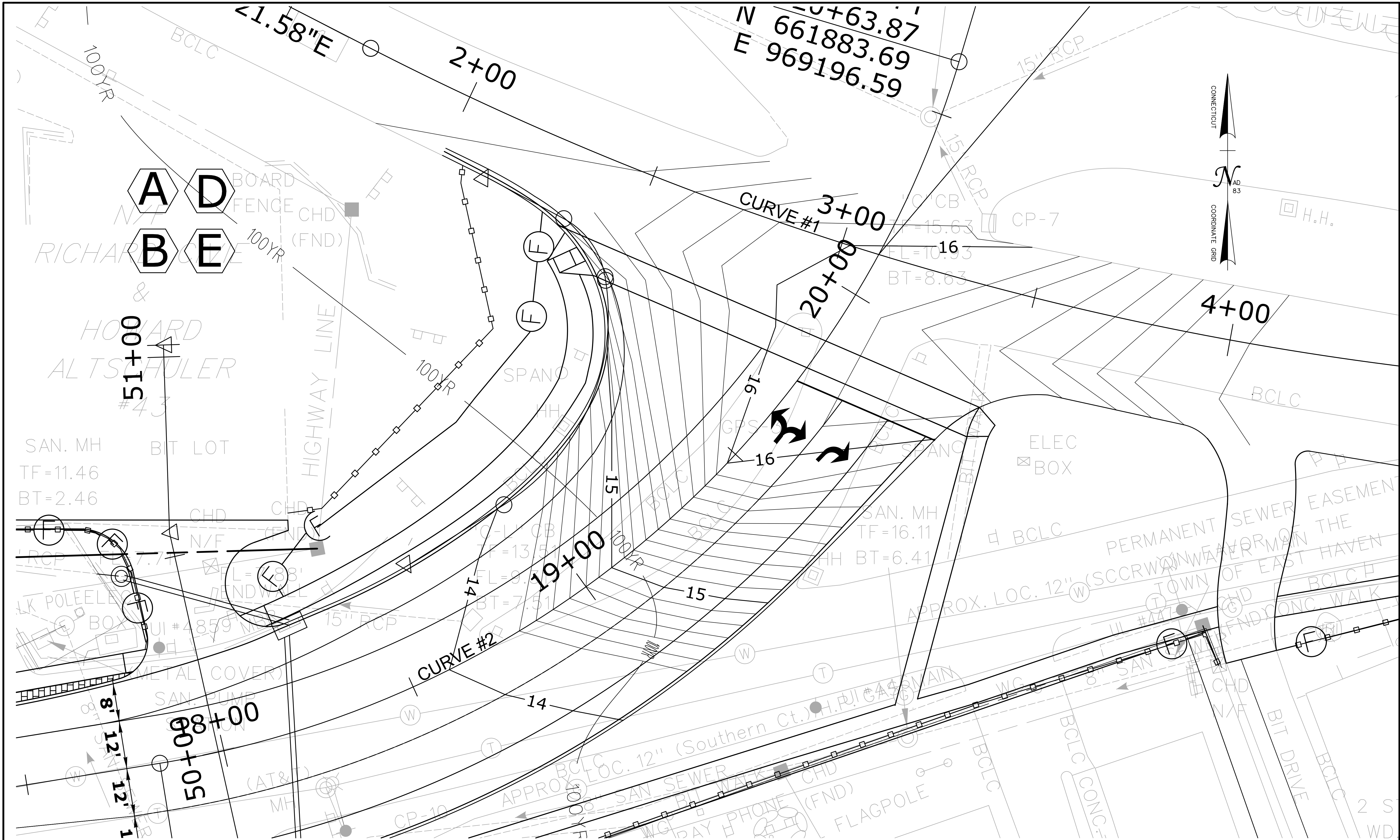


CT ROUTE 100
FROM STA. 17+50 TO U.S. ROUTE 1 APPROACH
NOT TO SCALE
* SEE CROSS SECTIONS

				DESIGNER/DRAFTER: JB/JS		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK: OFFICE OF ENGINEERING		PROJECT TITLE: REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1		TOWN: EAST HAVEN		PROJECT NO. 43-128	
				CHECKED BY: PM				APPROVED BY: 				DRAWING TITLE: TYPICAL SECTIONS		DRAWING NO. TYP-02	
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/18/2014											



				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.		DESIGNER/DRAFTER: JB/JS CHECKED BY: PM SCALE AS NOTED		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\HW_MST_0043_0128_GRA_01.dgn		SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: 		PROJECT TITLE: REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1		TOWN: EAST HAVEN DRAWING TITLE: INTERSECTION GRADING PLAN		PROJECT NO. 43-128 DRAWING NO. GRA-01 SHEET NO. 03.10	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/18/2014													





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: 12/9/2014

DESIGNER/DRAFTER:
JB/JS
CHECKED BY:
PM
SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION
Filename: ...\\HW_MST_0043_0128_GRA_02.dgn

SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:


PROJECT TITLE:
**REHABILITATION OF BRIDGE NO. 01665
AND INTERSECTION REALIGNMENT
OF ROUTE 100 AT U.S. ROUTE 1**

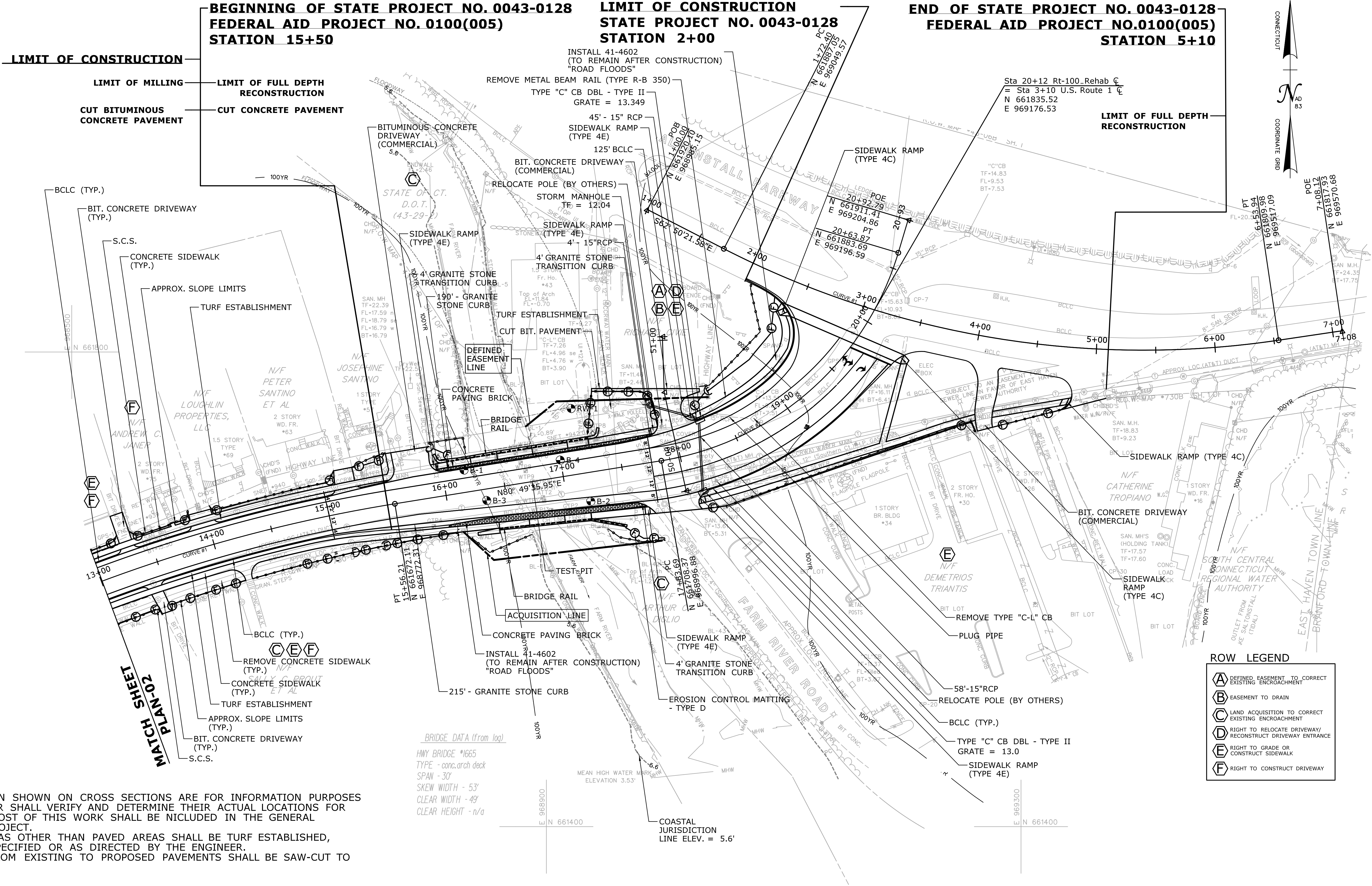
TOWN:
EAST HAVEN
DRAWING TITLE:
**INTERSECTION
GRADING PLAN**

PROJECT NO.
43-128
DRAWING NO.
GRA-02
SHEET NO.
03.11

CT ROUTE 100
CURVE #1
Delta = 14° 52'12.43"
D = 4° 24'26.52"
T = 169.65
L = 337.39
R = 1300.00
PI N 661645.06
PI E 968604.83

CT ROUTE 100
CURVE #2
Delta = 64° 12'41.66"
D = 22° 55'05.92"
T = 156.86
L = 280.18
R = 250.00
PI N 661733.38
PI E 969151.73

U.S. ROUTE 1
CURVE #1
Delta = 35° 36'00.60"
D = 7° 23'53.31"
T = 248.83
L = 481.54
R = 775.00
PI N 661773.46
PI E 969270.96

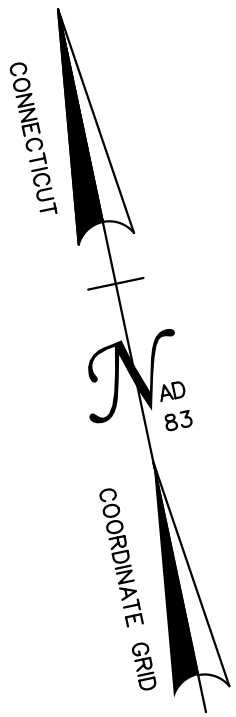
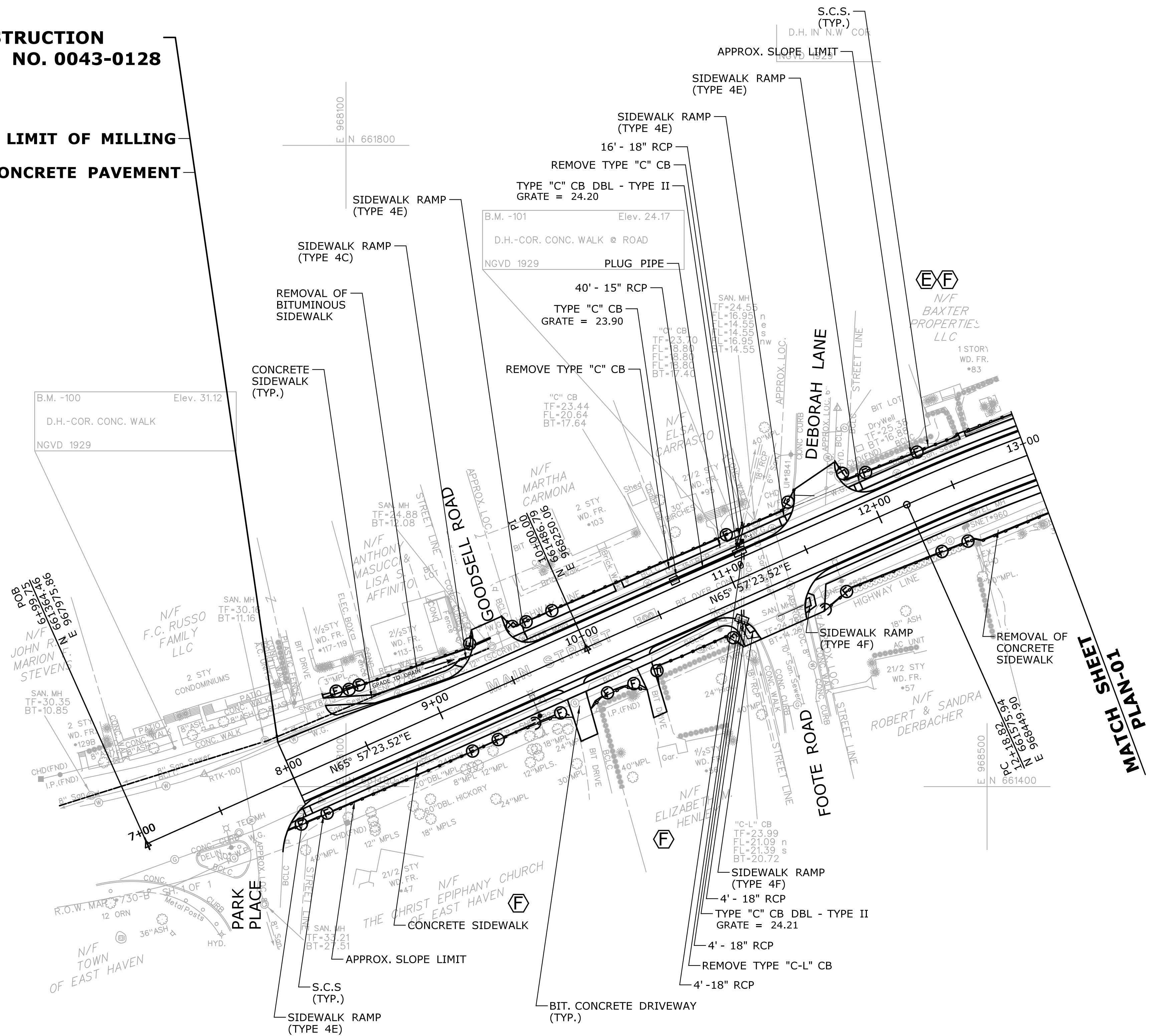
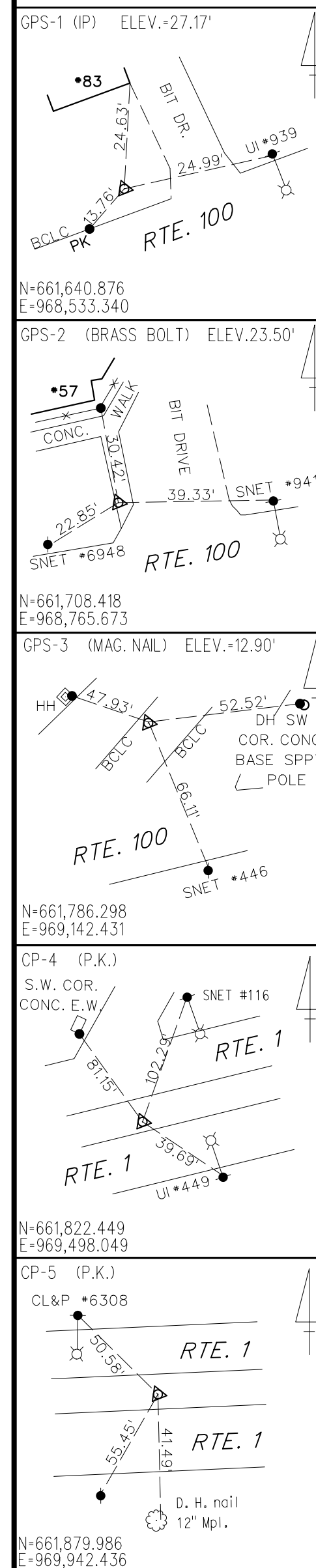



GENERAL NOTES:

- UTILITY INFORMATION SHOWN ON CROSS SECTIONS ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY AND DETERMINE THEIR ACTUAL LOCATIONS FOR ANY CONFLICTS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE GENERAL CONTRACT OF THIS PROJECT.
- ALL DISTURBED AREAS OTHER THAN PAVED AREAS SHALL BE TURF ESTABLISHED, UNLESS OTHERWISE SPECIFIED OR AS DIRECTED BY THE ENGINEER.
- ALL TRANSITIONS FROM EXISTING TO PROPOSED PAVEMENTS SHALL BE SAW-CUT TO CREATE NEAT LINES.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 12/30/2014	DESIGNER/DRAFTER: JS CHECKED BY: PM SCALE IN FEET 0 40 80 SCALE 1"=40'	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\VHW_MSH_0043_0128_PLN-01_2D.dgn	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY:	PROJECT TITLE: REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1	TOWN: EAST HAVEN DRAWING TITLE: HIGHWAY PLAN	PROJECT NO. 43-128 DRAWING NO. PLN-01 SHEET NO. 03.12
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**LIMIT OF MILLING-
CUT BITUMINOUS CONCRETE PAVEMENT
(TYP.)**



- | ROW | LEGEND |
|---|---|
| (A) | DEFINED EASEMENT TO CORRECT EXISTING ENCROACHMENT |
| (B) | EASEMENT TO DRAIN |
| (C) | LAND ACQUISITION TO CORRECT EXISTING ENCROACHMENT |
| (D) | RIGHT TO RELOCATE DRIVEWAY/ RECONSTRUCT DRIVEWAY ENTRANCE |
| (E) | RIGHT TO GRADE |
| (F) | RIGHT TO CONSTRUCT DRIVEWAY |
|  | UTILITY TEST PIT LOCATION |

CP-6 (P.K.)

S.W. COR. CONC. E.W.

SNET #116

49.65

94.48

15.17

RTE. 1

N=661,867.651
E=969,475.386

CP-7 (P.K.)

RTE. 1

103.28

62.44

11.10

D.H. TOP CENTER "C"CB

D.H. S.W. COR. H.H.

RTE. 1

N=661,849.304
E=969,215.357

CP-8 (I.P.)

UI=1880

15.00

94.59

23.45

D.H. nail 24" Twin Mpl.

RTE. 1

N=661,989.301
E=969,012.851

CP-10 (P.K.)

RTE. 100

SNET #443

11.88

94.29

57.18

D.H. nail 15" Pine

BIT WALK

BIT LOT

N=661,688.394
E=969,055.082

CP-20 (D.H. CONC. CURB)

BIT PARKING LOT

D.H. nail 8" Pine

7.59

32.50

75.59

BOLL

D.H. nail 12" Pine

D.H. nail 10" Pine

N=661,508.447
E=969,221.952

CP-30 (I.P.)

D.H. N.E. COR. CONC. RET. WALL

BIT LOT

RIB HOUSE

54.49

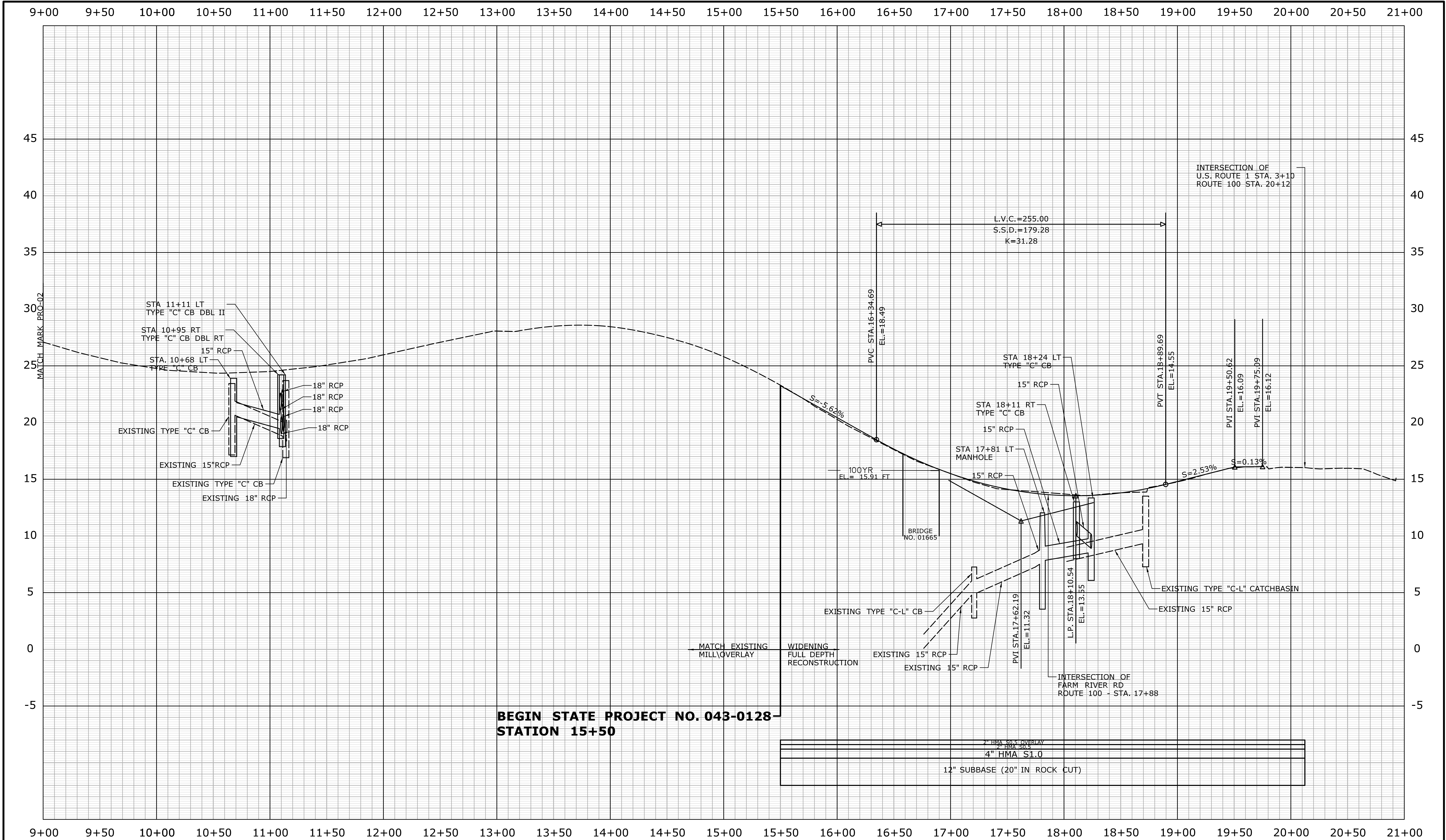
94.42

56.87

D.H. nail 18" Mpl.

N=661,607.242
E=969,375.954

[illegible]



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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

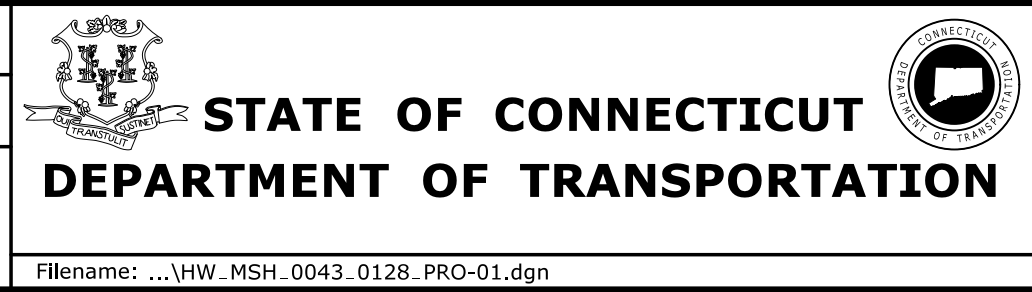
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Plotted Date: 12/9/2014

DESIGNER/DRAFTER:
JS
CHECKED BY:
PM

HORIZ. SCALE IN FEET
0 40 80

VERT. SCALE IN FEET
0 4 8



SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:
**REHABILITATION OF BRIDGE NO. 01665
AND INTERSECTION REALIGNMENT
OF ROUTE 100 AT U.S. ROUTE 1**

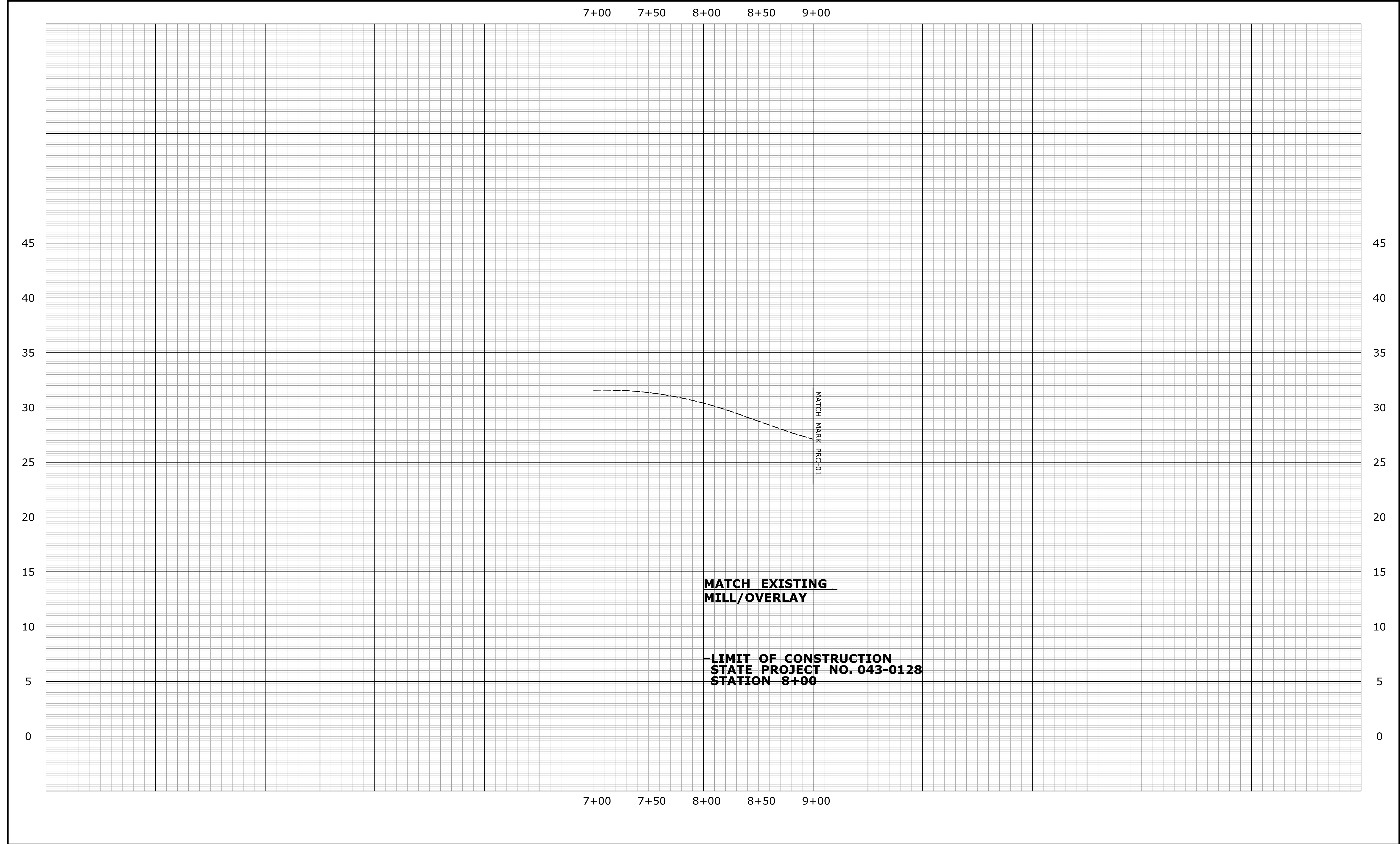
TOWN:
EAST HAVEN


DRAWING TITLE:
PROFILE OF ROUTE 100

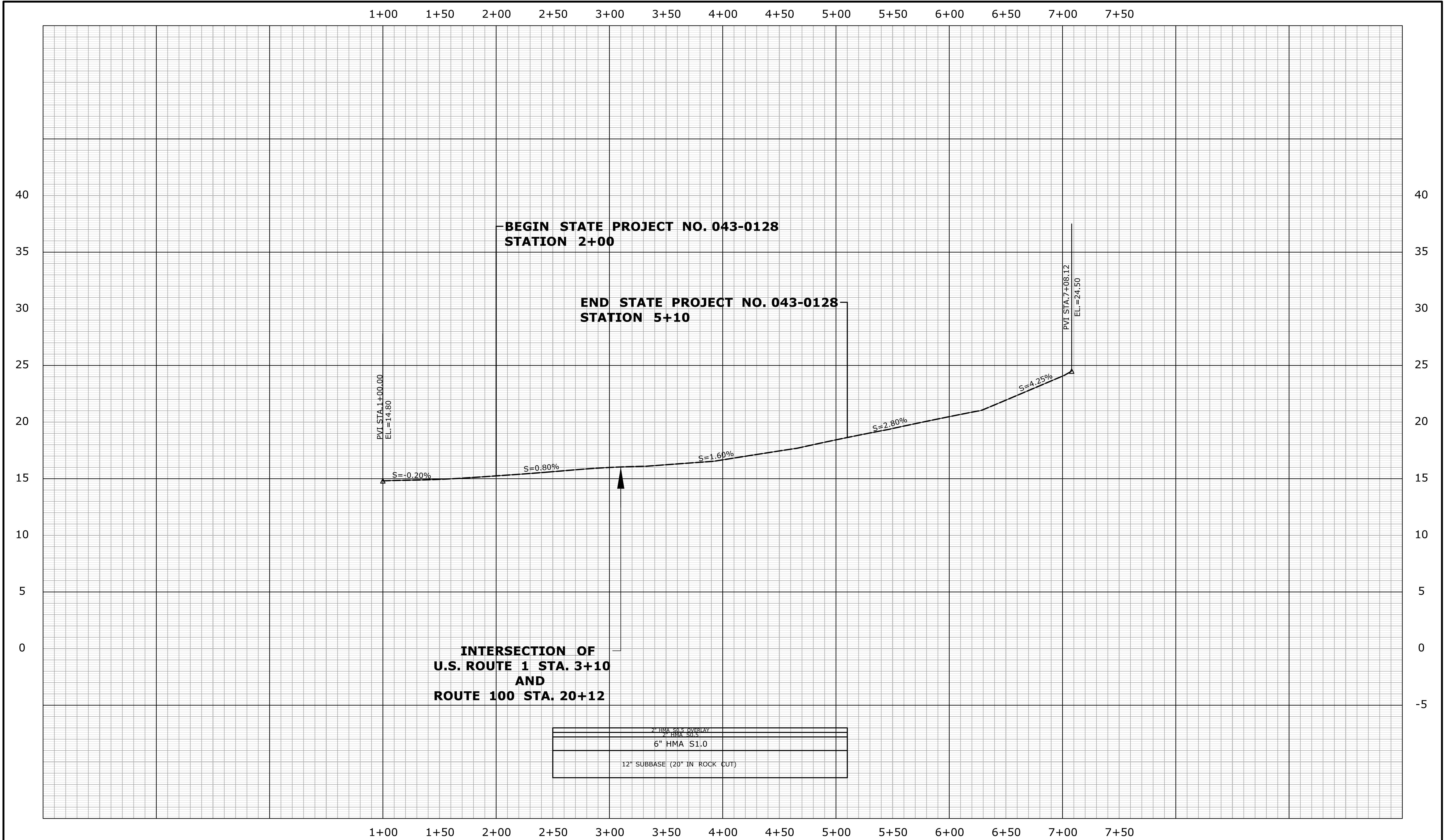
PROJECT NO.
43-128

DRAWING NO.
PRO-01

SHEET NO.
03.14



<div>REV.</div> <div>DATE</div>		<div>REVISION DESCRIPTION</div>		<div>SHEET NO.</div>	<div>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.</div>	<div>DESIGNER/DRAFTER:</div> <div>JS</div> <div>CHECKED BY:</div> <div>PM</div> <div>HORIZ. SCALE IN FEET</div> <div>0 40 80</div> <div>VERT. SCALE IN FEET</div> <div>0 4 8</div>	<div></div> <div>STATE OF CONNECTICUT</div> <div>DEPARTMENT OF TRANSPORTATION</div> <div>Filename: ...\\HW_MSH_0043_0128_PRO-02.dgn</div>	<div>SIGNATURE/BLOCK:</div> <div>OFFICE OF ENGINEERING</div> <div>APPROVED BY:</div> <div>DATE:</div>	<div>PROJECT TITLE:</div> <div>REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1</div>	<div>TOWN:</div> <div>EAST HAVEN</div> <div>DRAWING TITLE:</div> <div>PROFILE OF ROUTE 100</div>	<div>PROJECT NO.</div> <div>43-128</div> <div>DRAWING NO.</div> <div>PRO-02</div> <div>SHEET NO.</div> <div>03.15</div>
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 12/9/2014

DESIGNER/DRAFTER:
JS

CHECKED BY:
PM


HORIZ. SCALE IN FEET
0 40 80

VERT. SCALE IN FEET
0 4 8

 **STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION

Filename: ...\\HW_MSH_0043_0128_PRO-03.dgn

SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:  DATE:

PROJECT TITLE:
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AND INTERSECTION REALIGNMENT
OF ROUTE 100 AT U.S. ROUTE 1**

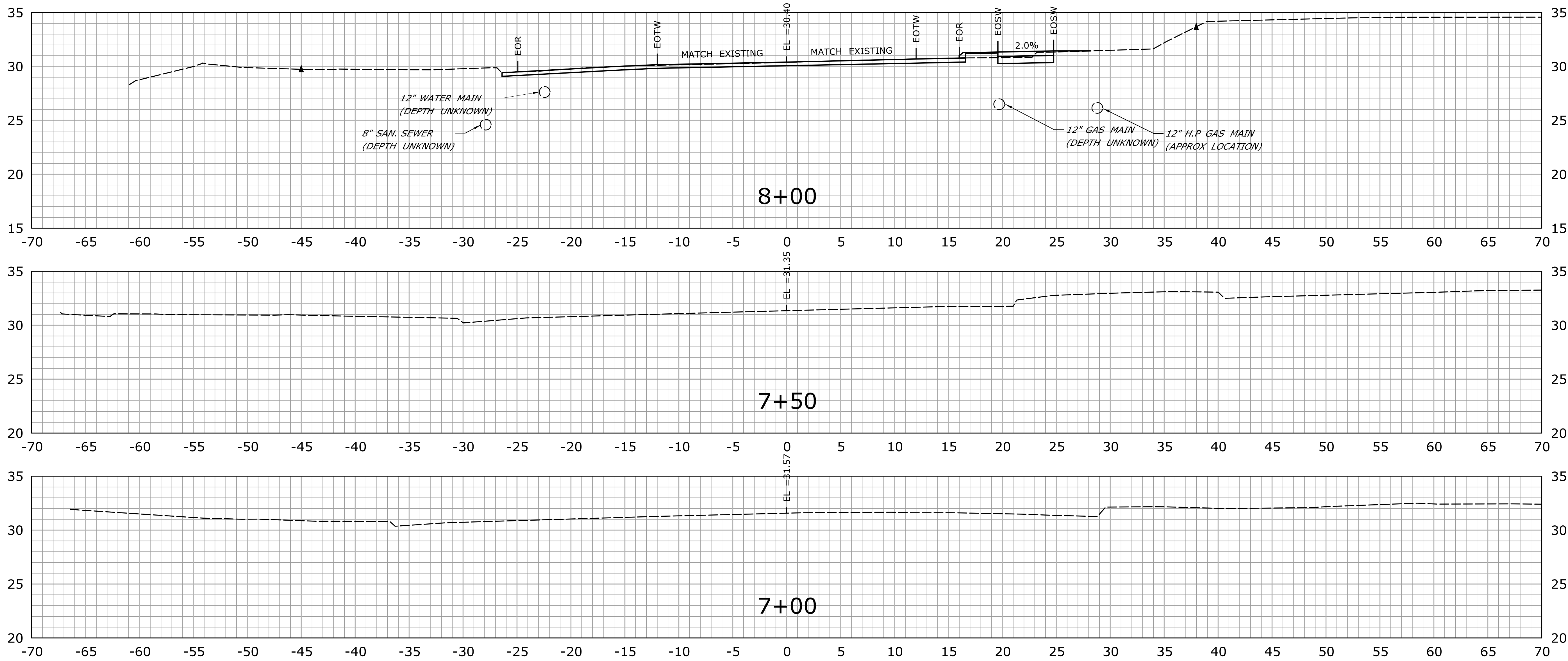
TOWN:
EAST HAVEN

DRAWING TITLE:
PROFILE OF U.S. ROUTE 1

PROJECT NO.
43-128

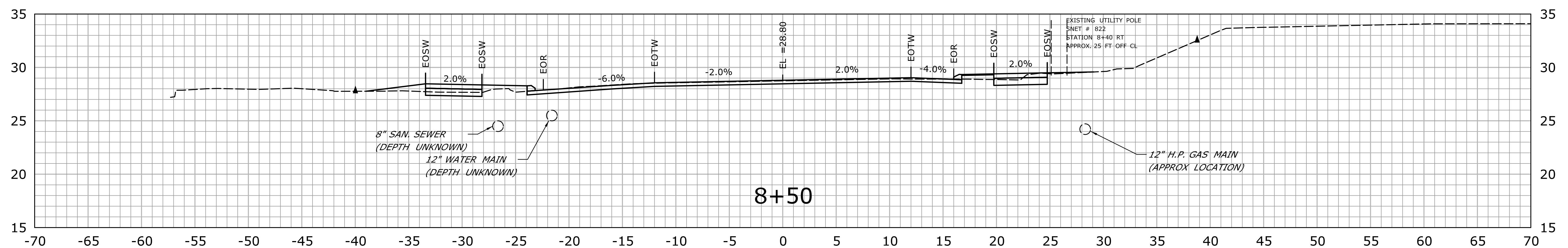
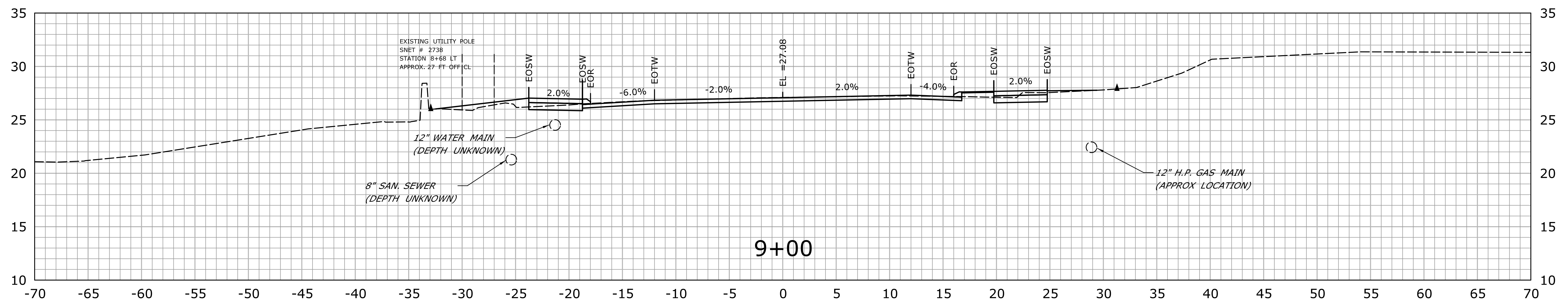
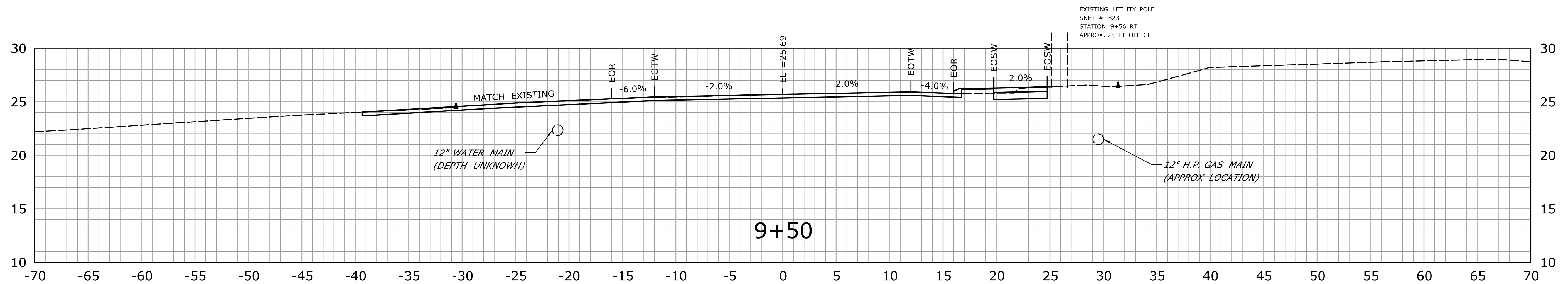
DRAWING NO.
PRO-03

SHEET NO.
03.16



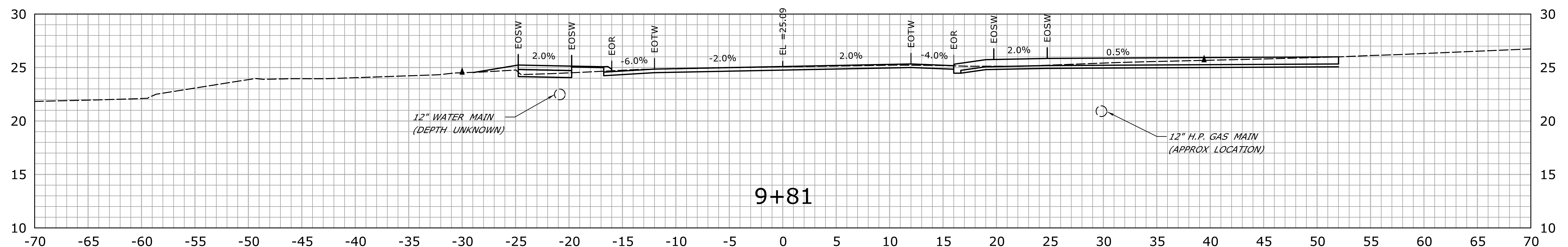
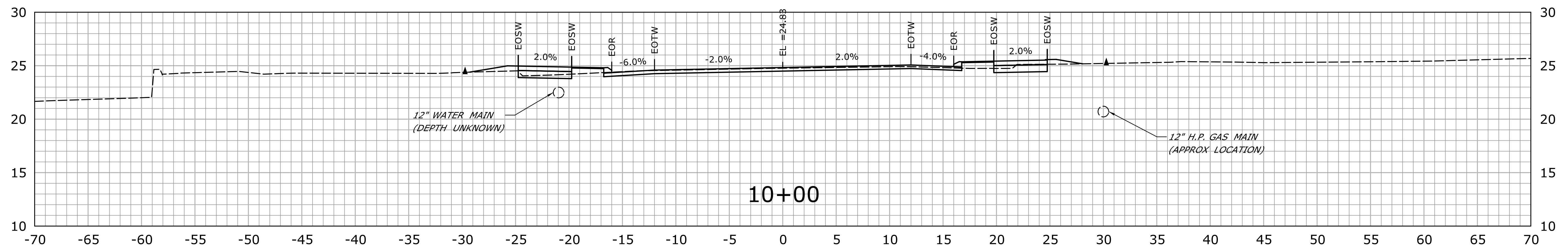
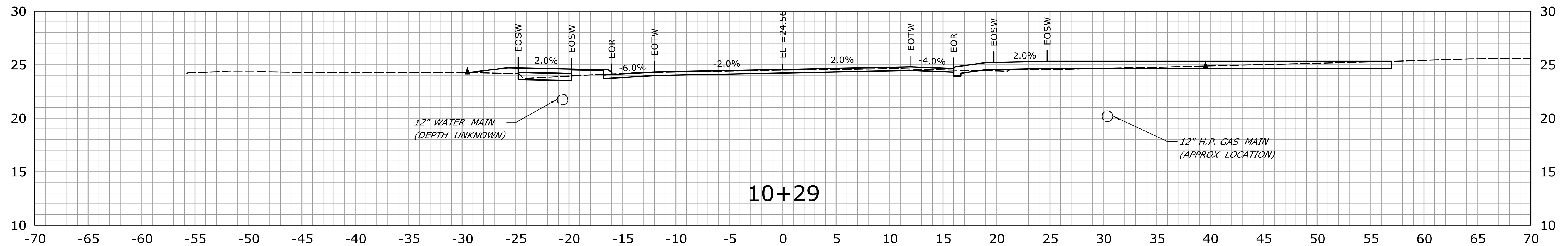
STA. 7+00 TO STA. 8+00

<table><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td></tr></table>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<table><tr><td>-</td></tr><tr><td>-</td></tr><tr><td>-</td></tr><tr><td>-</td></tr><tr><td>-</td></tr><tr><td>-</td></tr></table>	-	-	-	-	-	-	<table><tr><td>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.</td></tr><tr><td>Plotted Date: 1/5/2015</td></tr></table>	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: 1/5/2015	<table><tr><td>DESIGNER/DRAFTER: JS</td></tr><tr><td>CHECKED BY: PM</td></tr><tr><td>SCALE IN FEET 0 5 10</td></tr><tr><td>SCALE 1" = 5'</td></tr></table>	DESIGNER/DRAFTER: JS	CHECKED BY: PM	SCALE IN FEET 0 5 10	SCALE 1" = 5'	<table><tr><td></td><td>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</td><td></td></tr><tr><td colspan="3">Filename: ...\\HW_MST_0043_0128.MDL.dgn</td></tr></table>		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		Filename: ...\\HW_MST_0043_0128.MDL.dgn			<table><tr><td>SIGNATURE/ BLOCK: <i>William B. Smith</i></td><td>DATE:</td></tr></table>	SIGNATURE/ BLOCK: <i>William B. Smith</i>	DATE:	<table><tr><td>PROJECT TITLE: REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1</td></tr></table>	PROJECT TITLE: REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1	<table><tr><td>TOWN: EAST HAVEN</td></tr><tr><td>DRAWING TITLE: CROSS SECTIONS</td></tr></table>	TOWN: EAST HAVEN	DRAWING TITLE: CROSS SECTIONS	<table><tr><td>PROJECT NO. 43-128</td></tr><tr><td>DRAWING NO. XSC-01</td></tr><tr><td>SHEET NO. 03.17</td></tr></table>	PROJECT NO. 43-128	DRAWING NO. XSC-01	SHEET NO. 03.17
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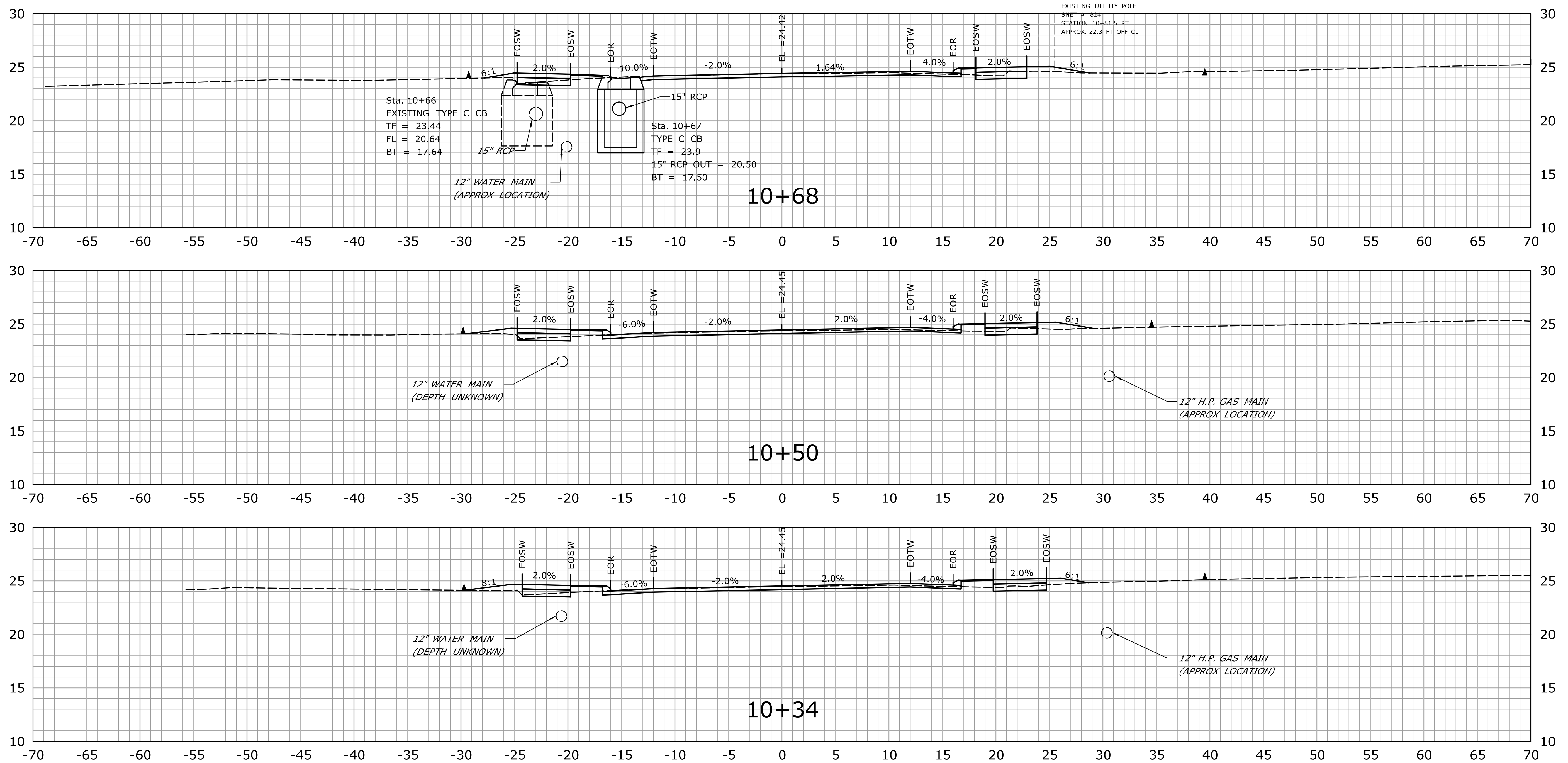
SIA.8+50	10	SIA.9+50
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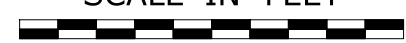


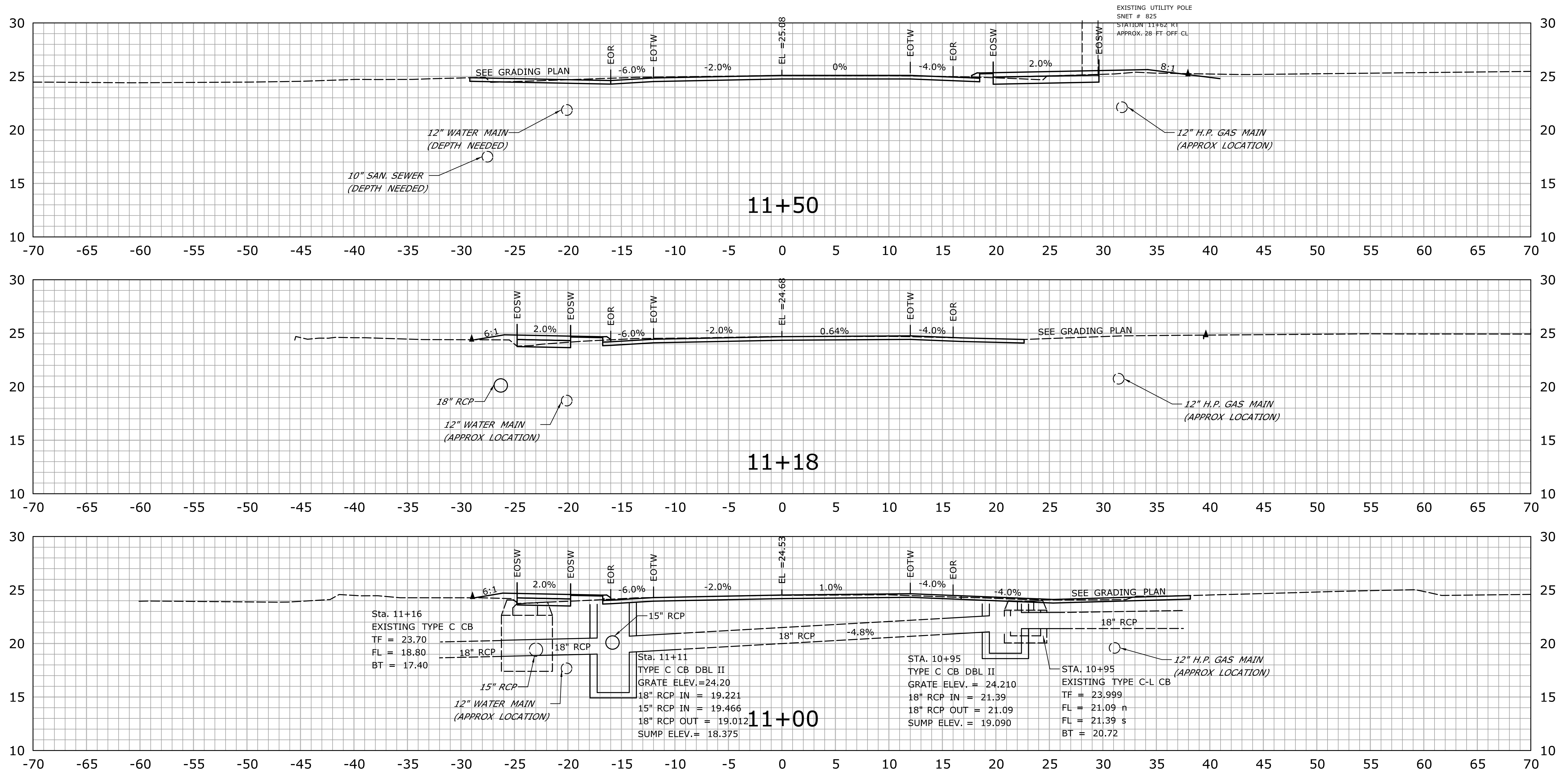
SIA.9+8I	10	SIA.10+29
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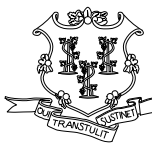

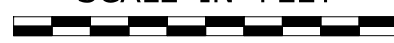
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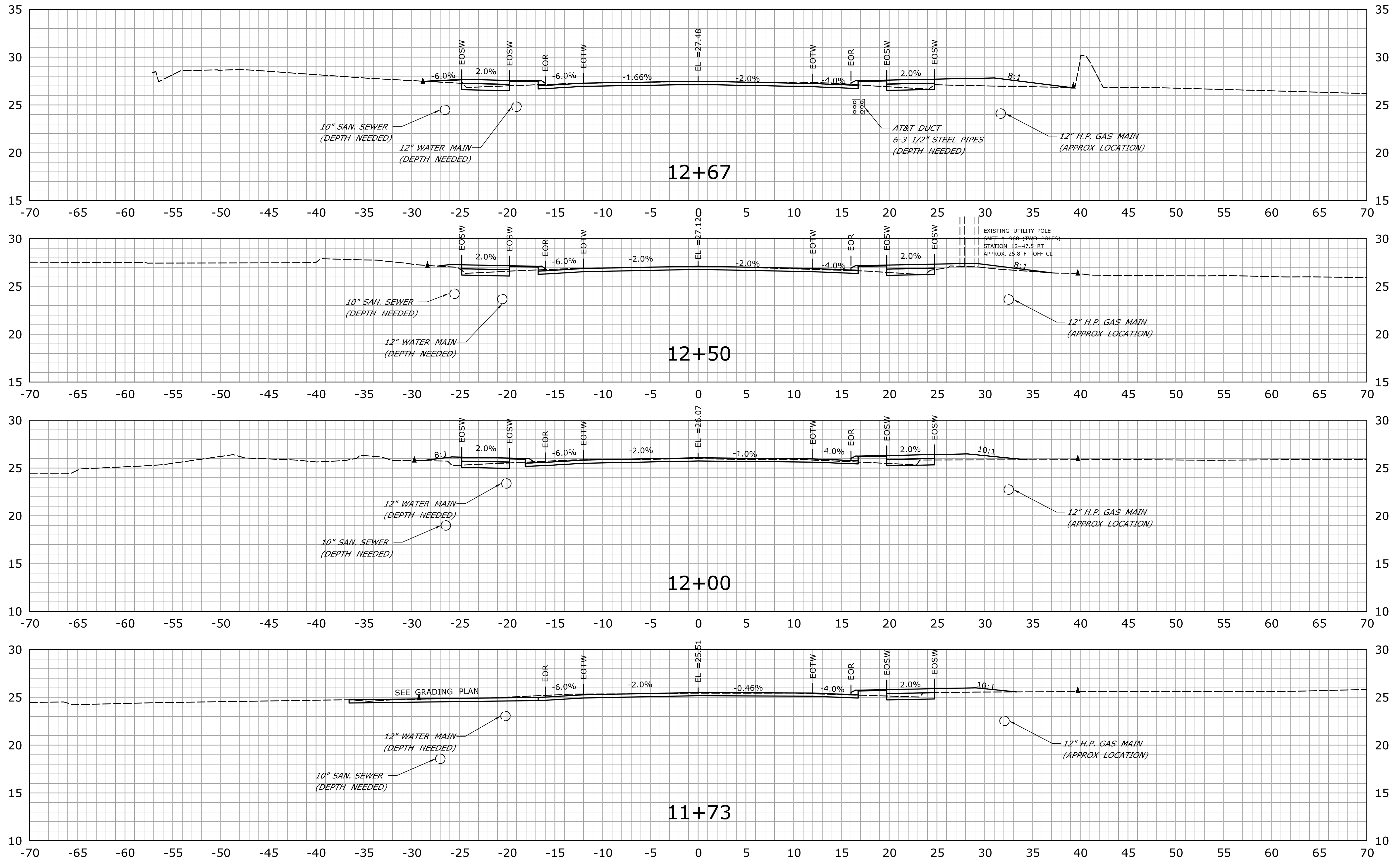


STA.10+34 TO STA.10+68



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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/5/2015						

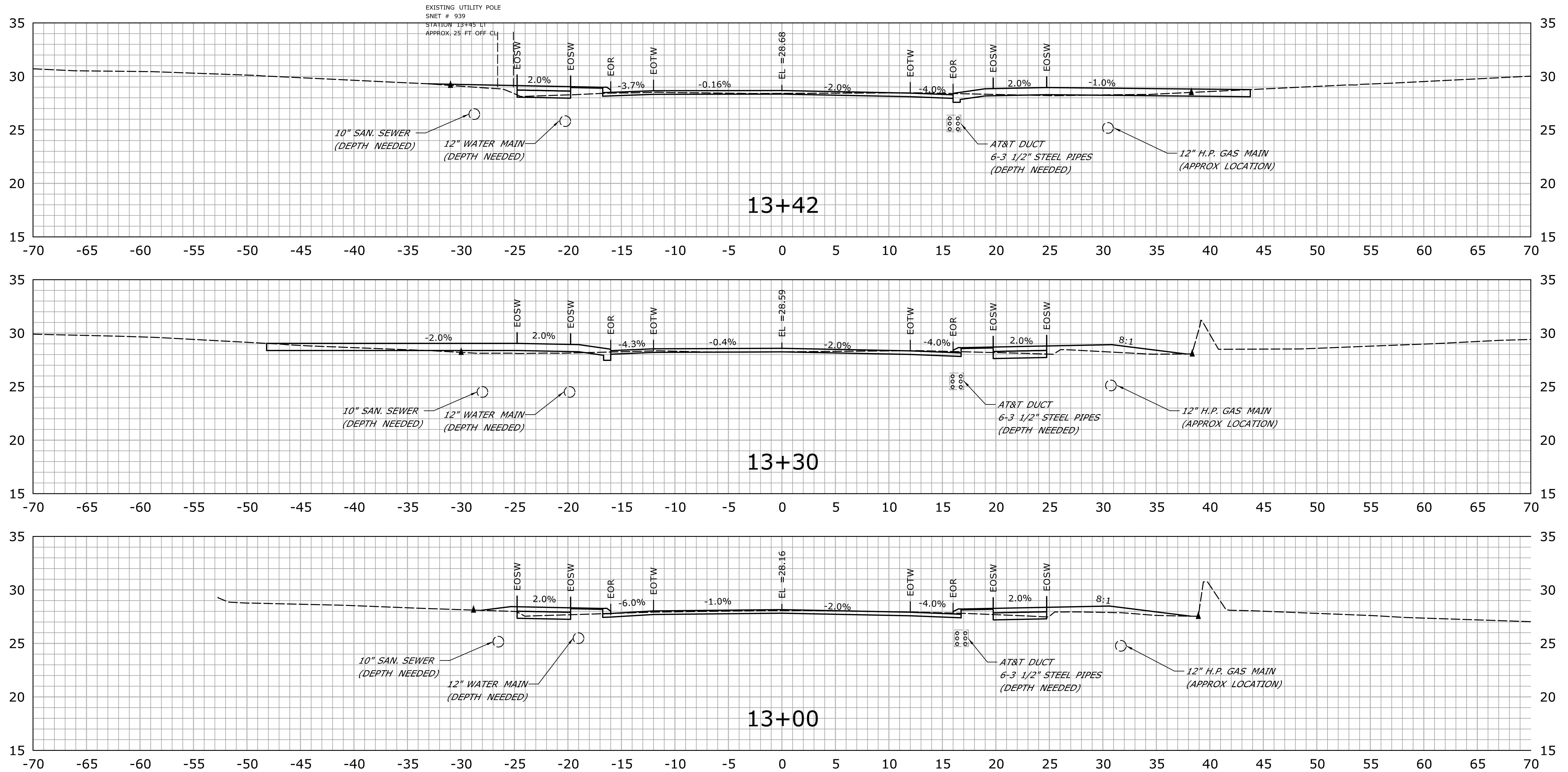


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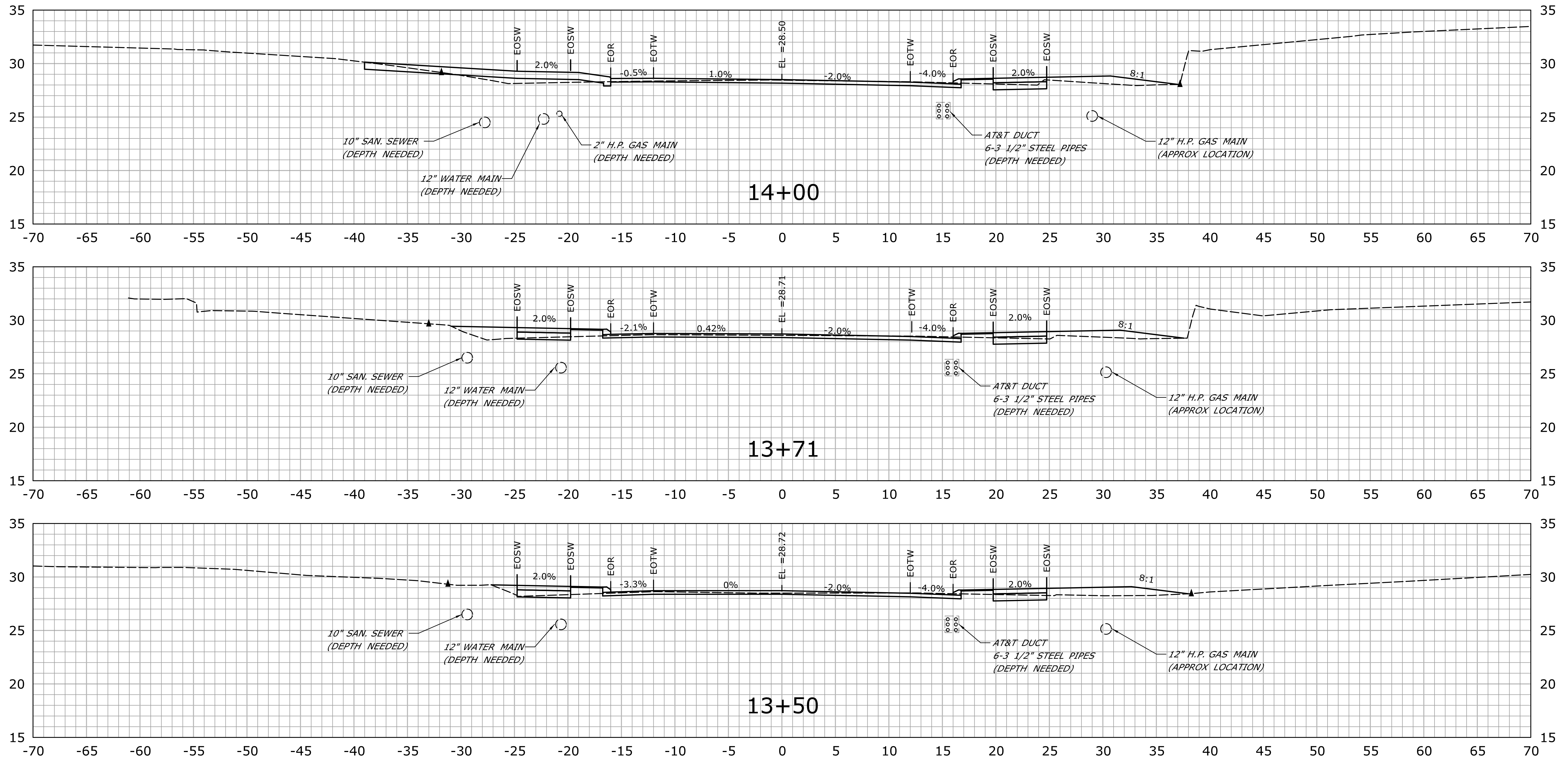
STA. 11+73 TO STA. 12+67

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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.		Filename: ...\\HW_MST_0043_0128.MDL.dgn									
REV.	DATE	REVISION DESCRIPTION			SHEET NO.	Plotted Date: 1/5/2015										






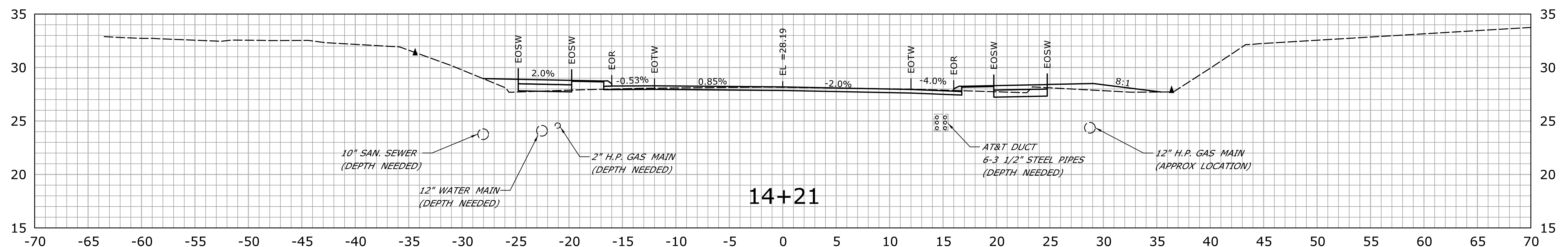
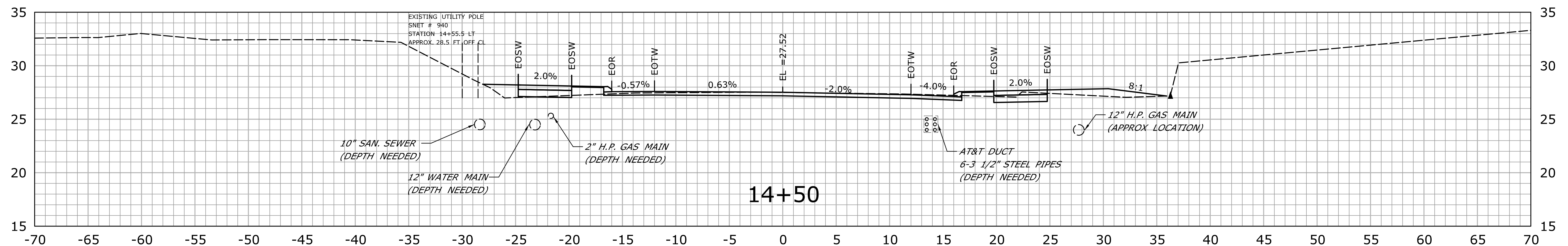
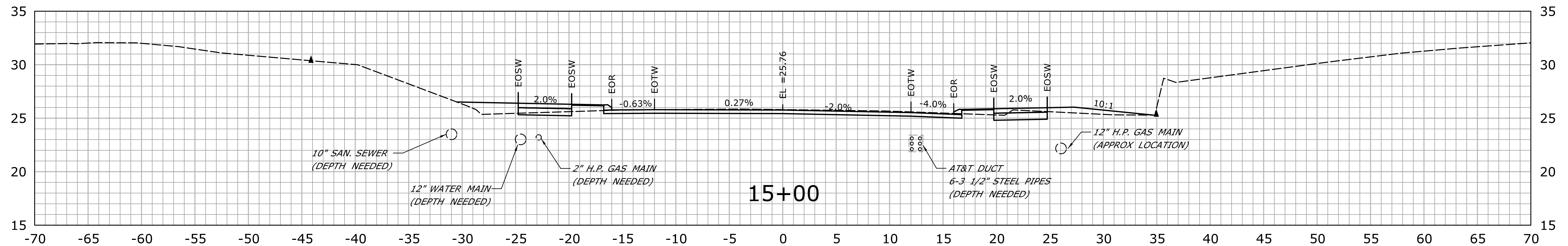
STA.13+00 TO STA.13+42

				DESIGNER/DRAFTER: JS		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	 OFFICE OF ENGINEERING	SIGNATURE/ BLOCK: <i>William B. ...</i>	DATE:	REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1	PROJECT NO. 43-128		
				CHECKED BY: PM								PROJECT TITLE: EAST HAVEN	DRAWING NO. XSC-07
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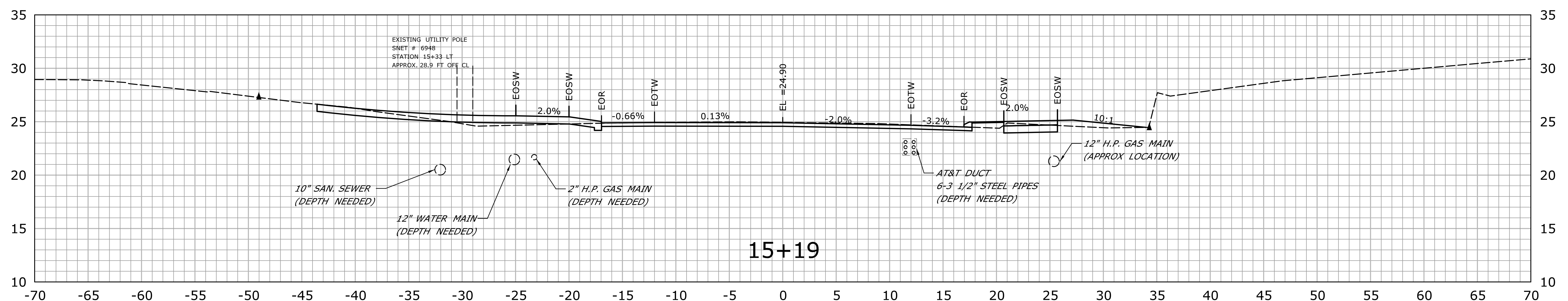
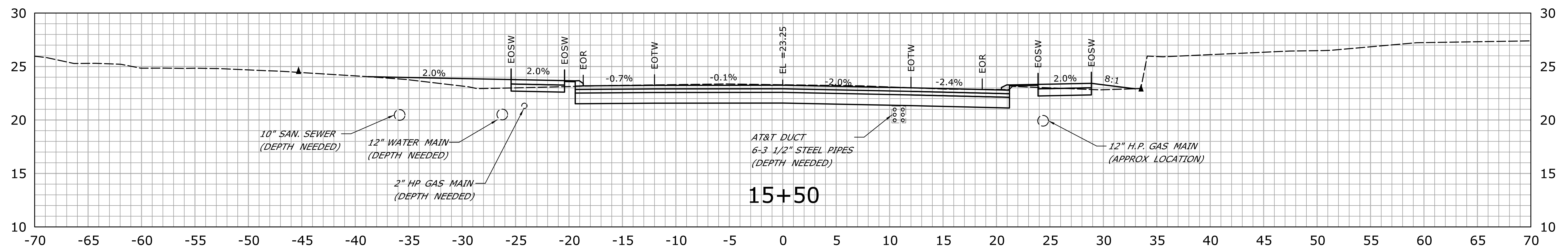
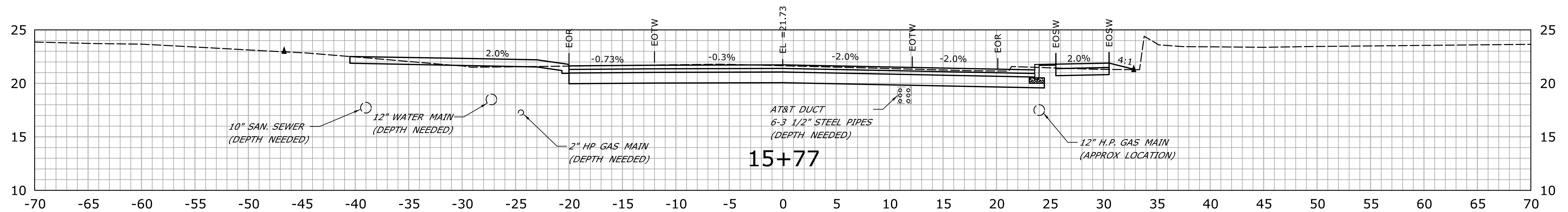
STA.13+50 TO STA.14+00

				DESIGNER/DRAFTER: JS		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK: OFFICE OF ENGINEERING		REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1		TOWN: EAST HAVEN		PROJECT NO. 43-128	
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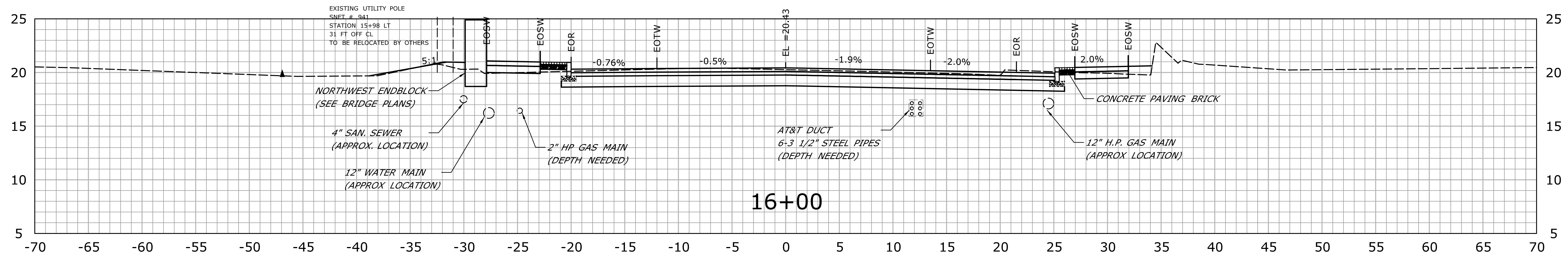
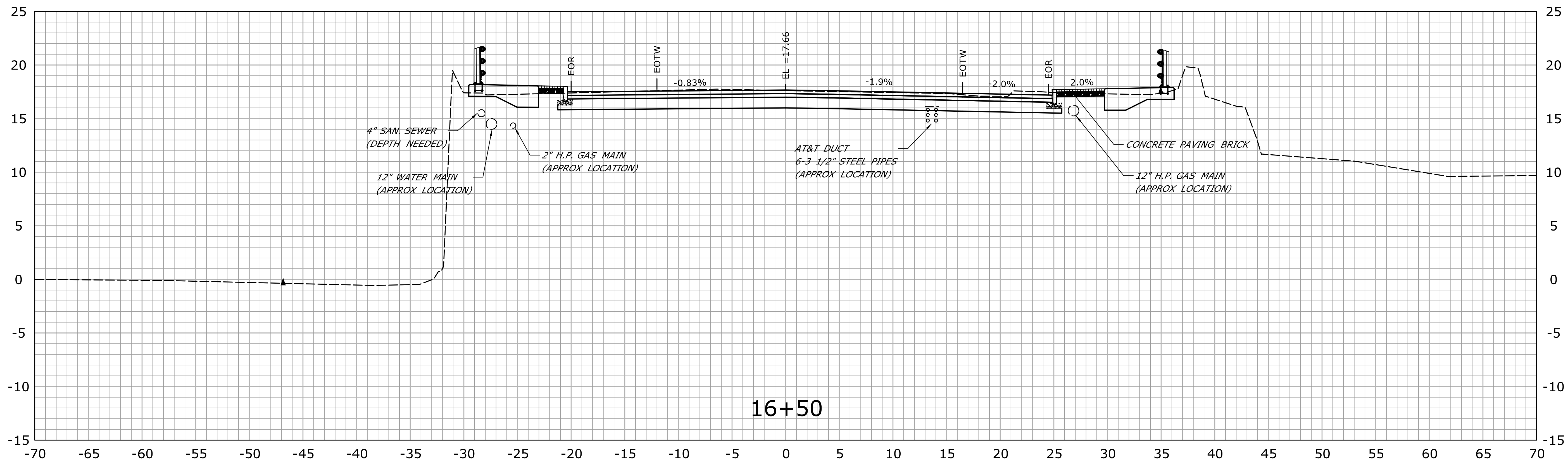
SIA.14+21	IO	SIA.15+00
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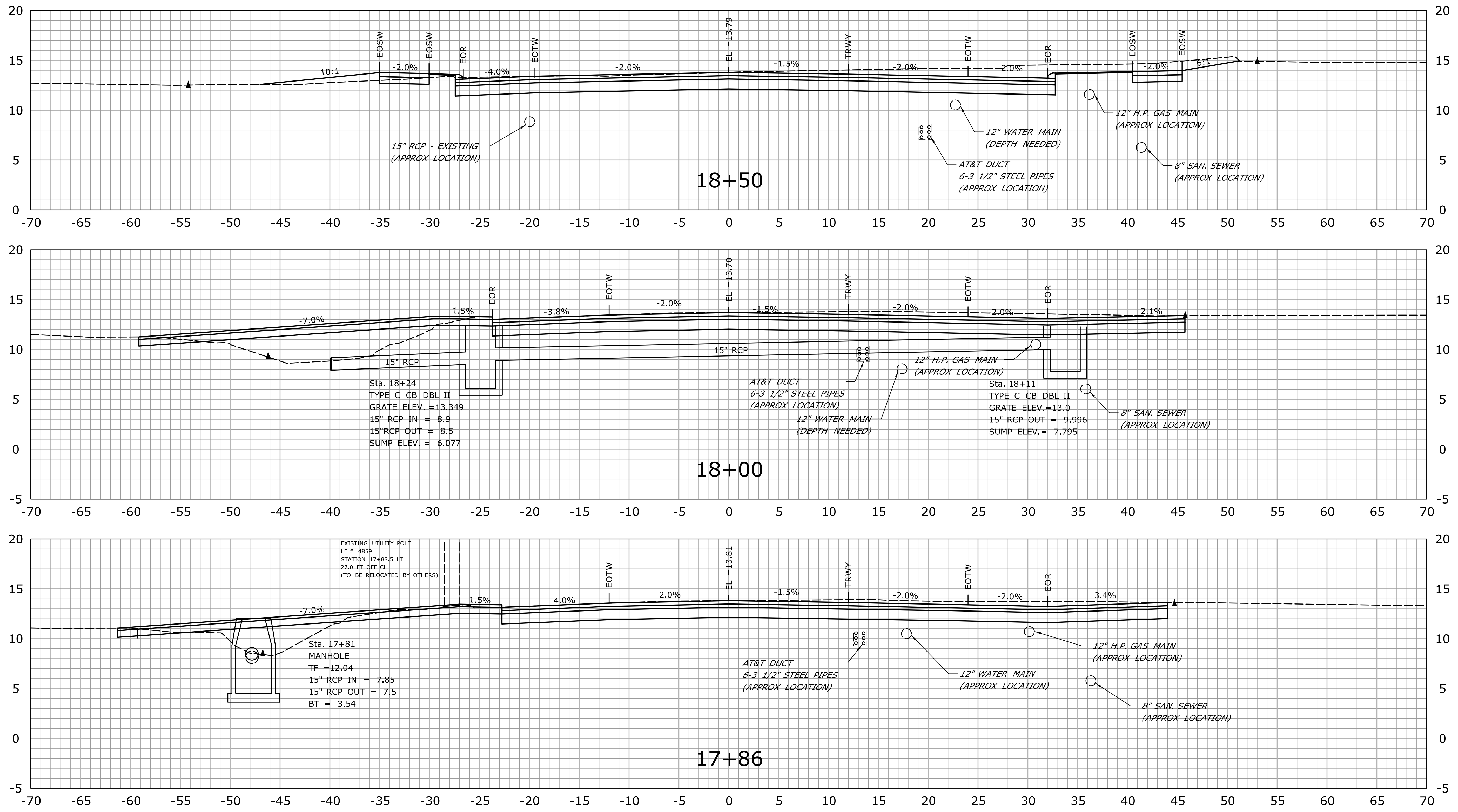


STA.15+19 TO STA.15+77

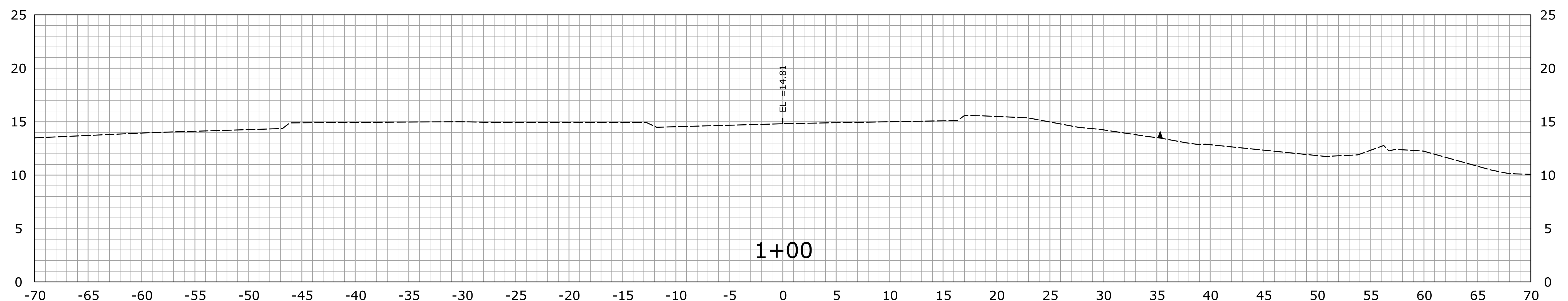
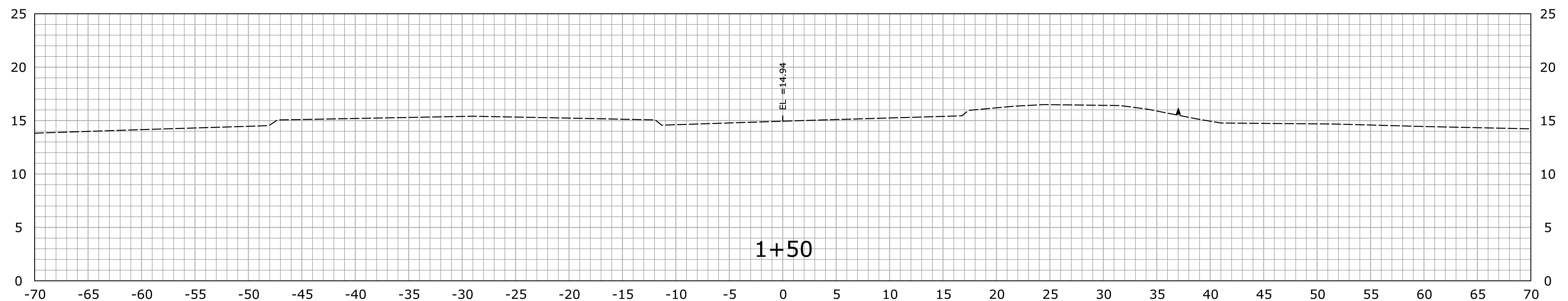
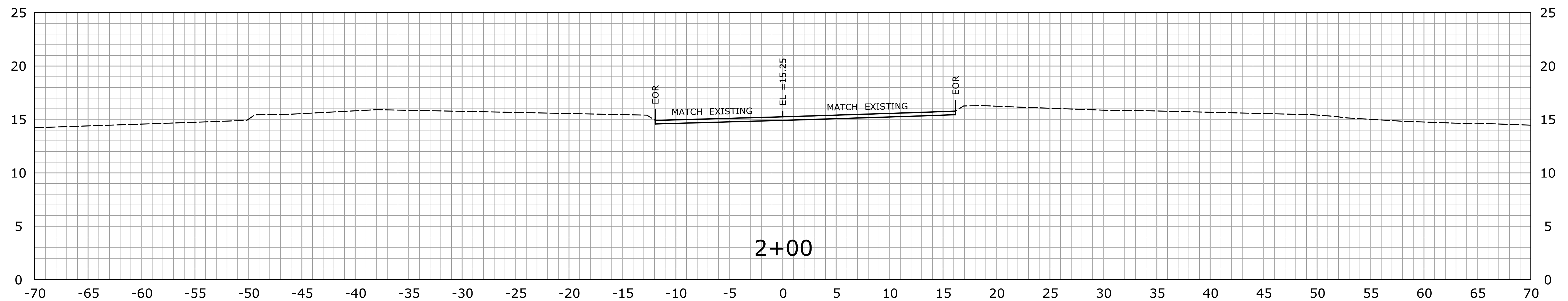
				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: JS CHECKED BY: PM SCALE IN FEET  SCALE 1" = 5'	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...JHW_MST-0043-0128-MDL.dgn	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY:  DATE:	PROJECT TITLE: REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1	TOWN: EAST HAVEN DRAWING TITLE: CROSS SECTIONS	PROJECT NO. 43-128 DRAWING NO. XSC-10 SHEET NO. 03.26
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/5/2015						



REV.		DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/5/2015	DESIGNER/DRAFTER: JS CHECKED BY: PM SCALE IN FEET 0 5 10 SCALE 1" = 5'	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...HW_MST_0043_0128.MDL.dgn		SIGNATURE/ BLOCK: APPROVED BY: DATE:	PROJECT TITLE: REHABILITATION OF BRIDGE NO. 01665 AND INTERSECTION REALIGNMENT OF ROUTE 100 AT U.S. ROUTE 1	TOWN: EAST HAVEN DRAWING TITLE: CROSS SECTIONS	PROJECT NO. 43-128 DRAWING NO. XSC-11 SHEET NO. 03.27
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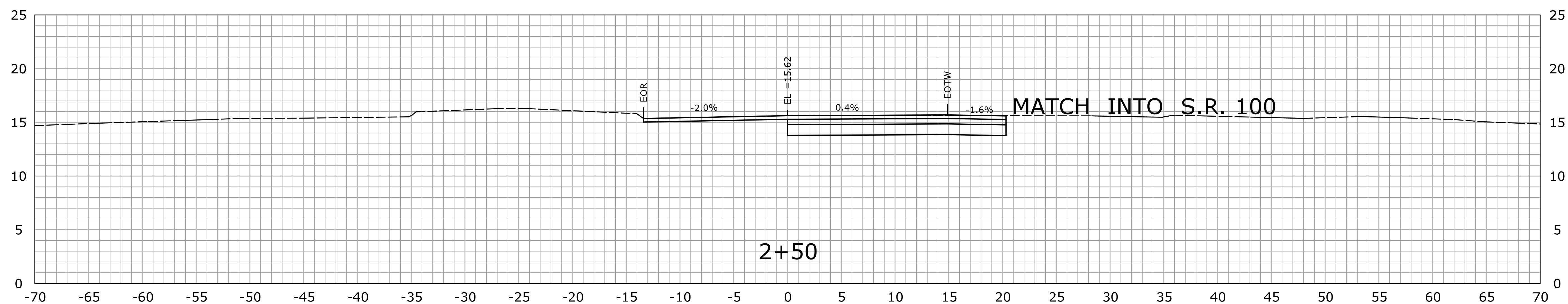
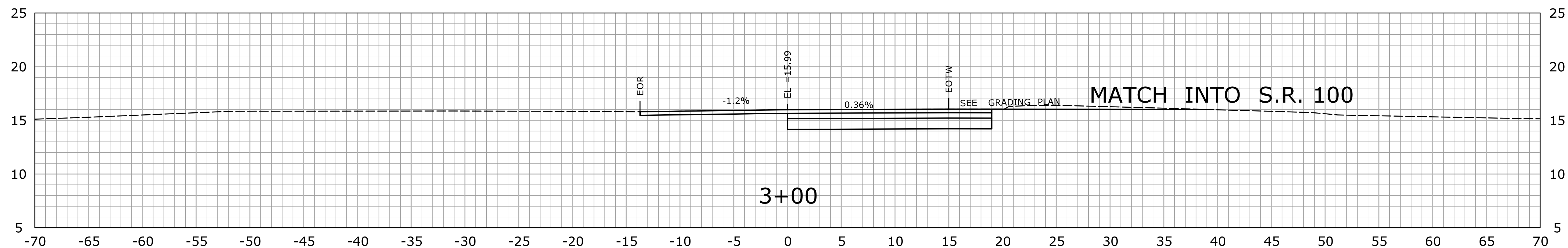
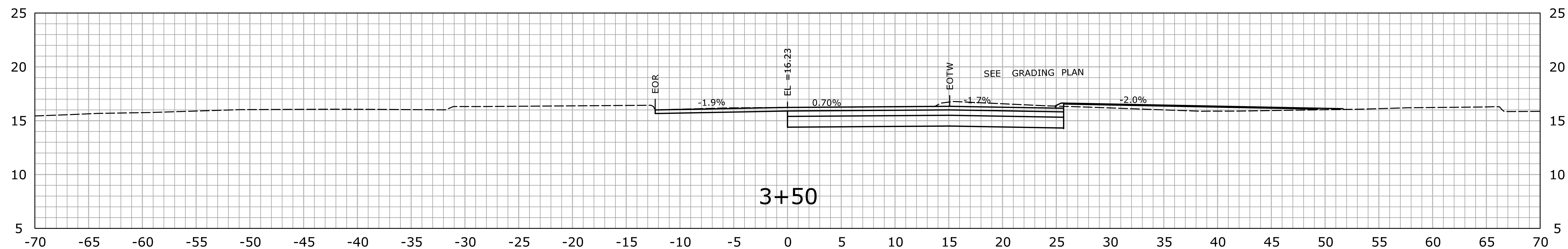


STA.17+86 TO STA.18+50



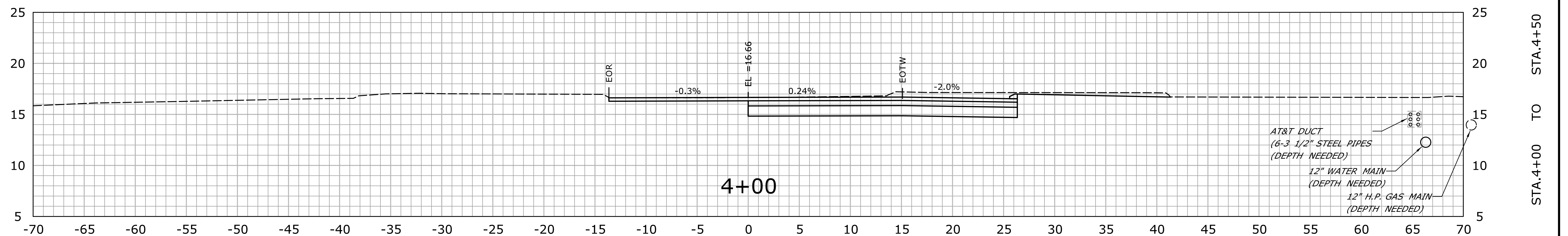
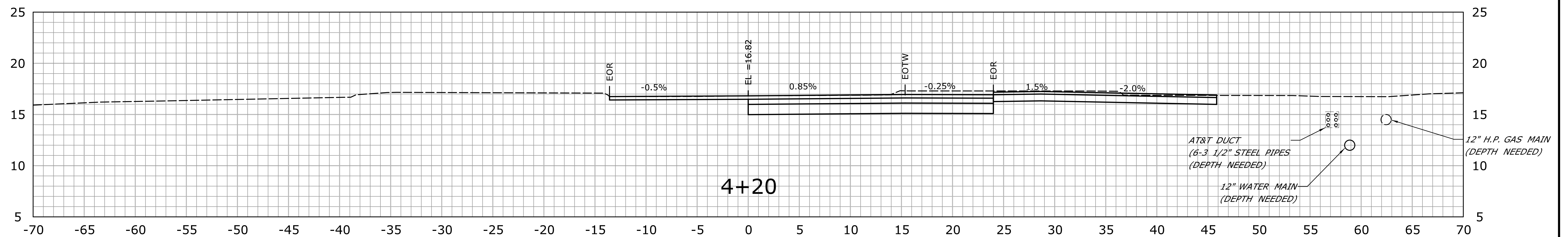
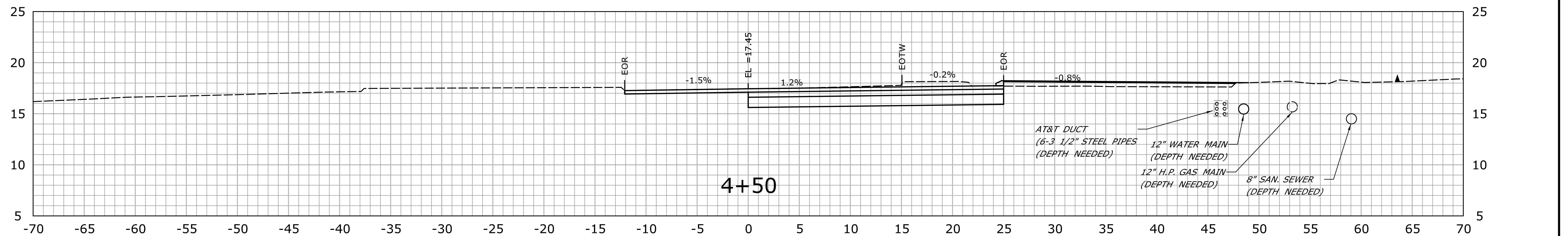
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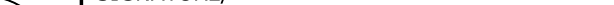


STA.2+50 TO STA.3+50

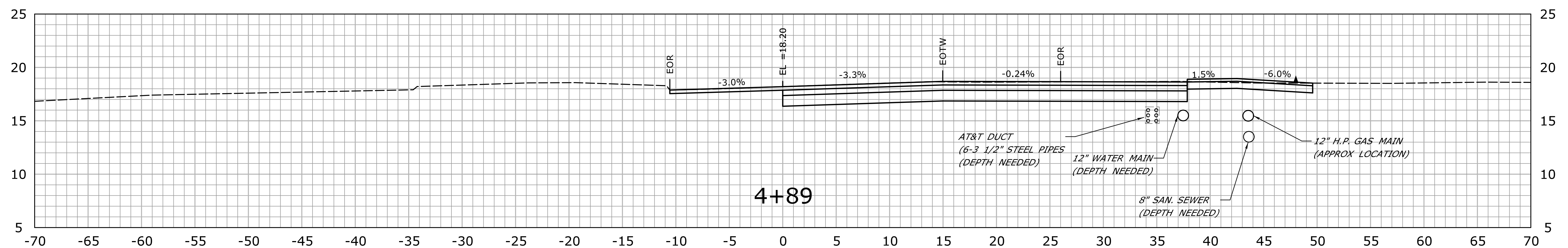
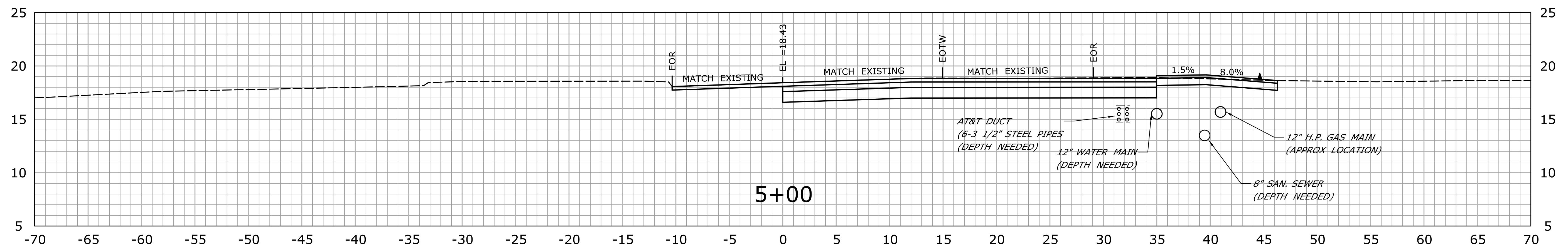
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REV.		DATE		REVISION DESCRIPTION		SHEET NO.		Plotted Date: 1/5/2015										



31A:4+00	10	31A:4+30
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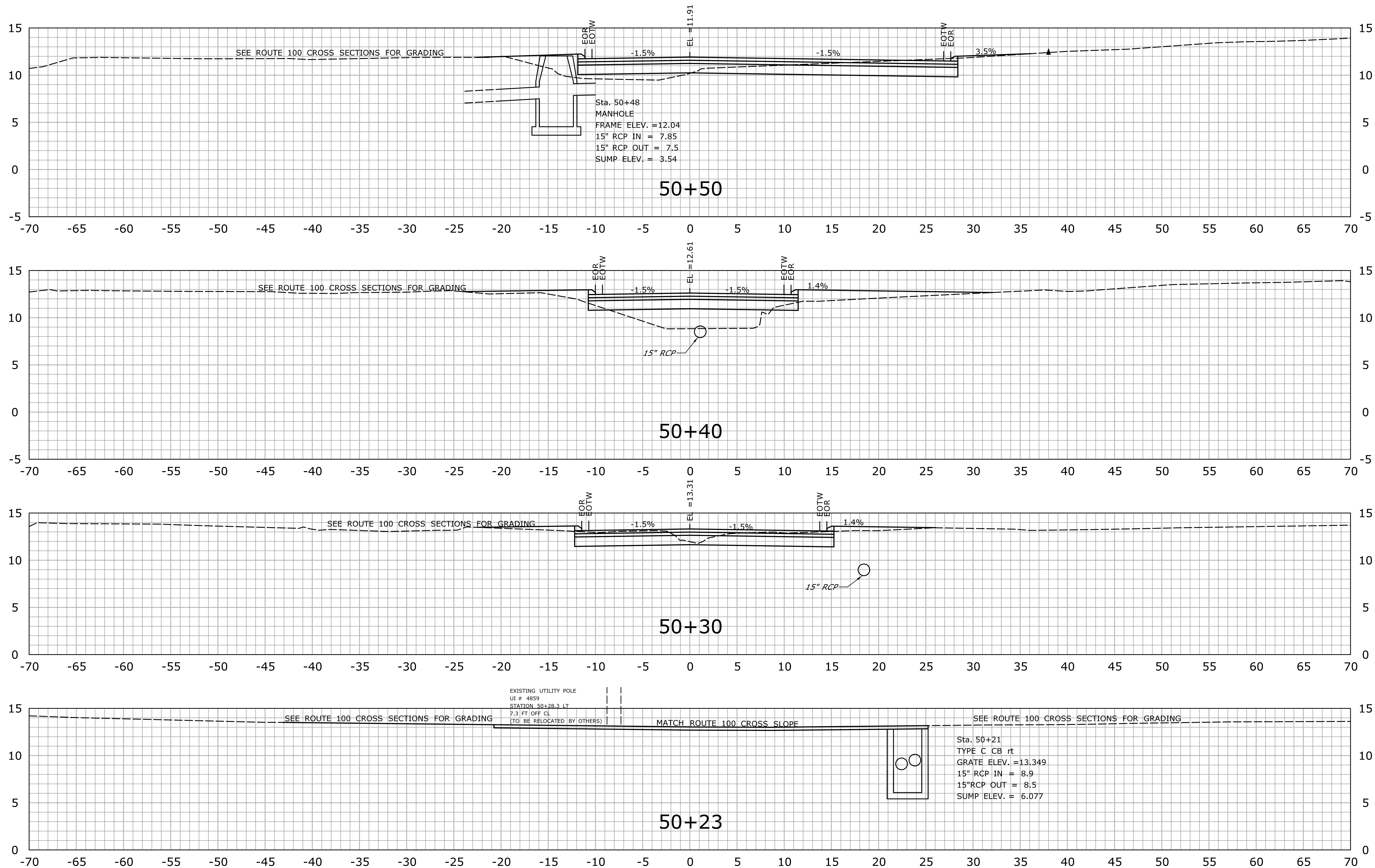
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.								

Plotted Date: 1/5/2015



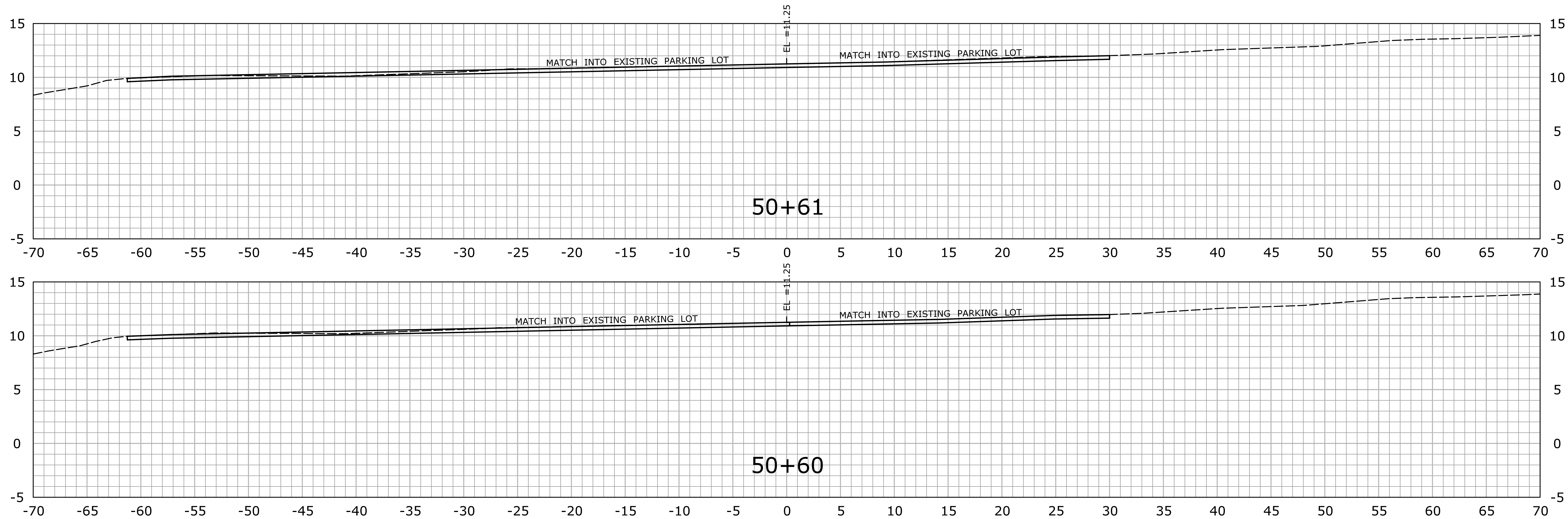
STA.4+89 TO STA.5+00

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STA. 50+23 TO STA. 50+50

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/5/2015											



STA. 50+60 TO STA. 50+61

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/5/2015																			

