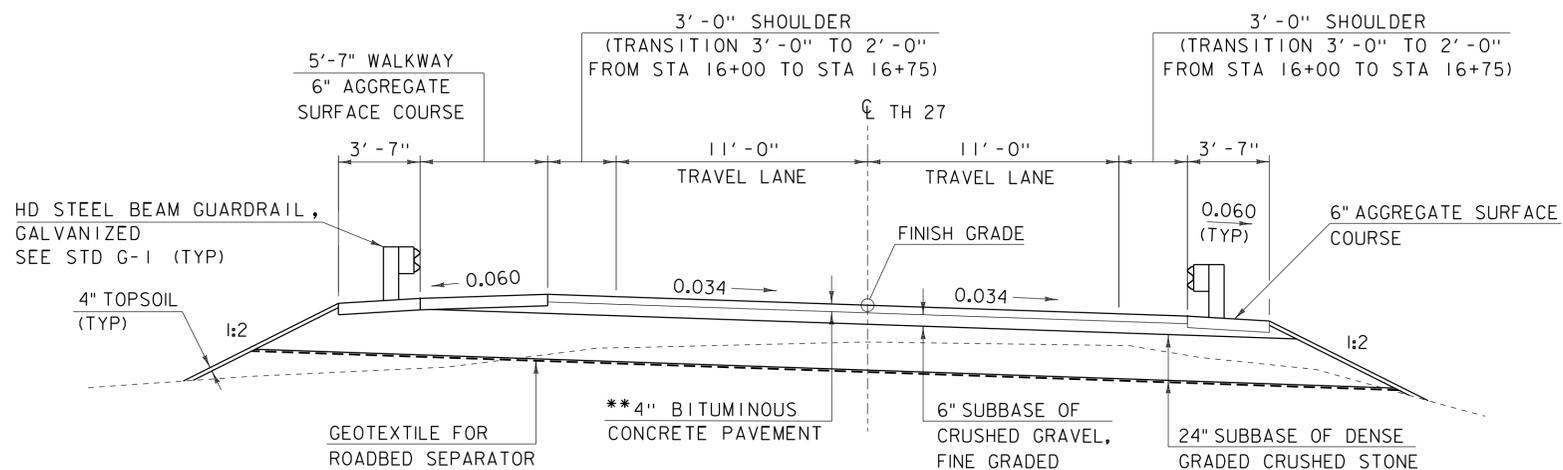
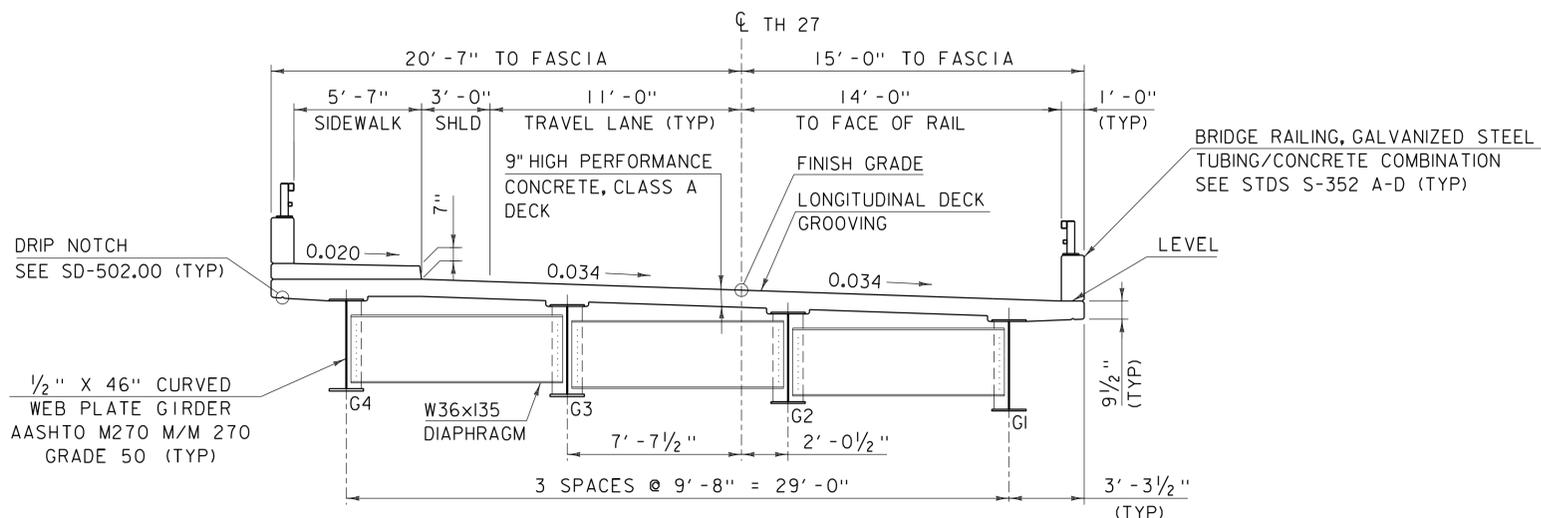


TYPICAL ROADWAY SECTION  
 STA 11+75.00 - STA 13+60.00  $\Delta$   
 SCALE 1/4" = 1'-0"



TYPICAL ROADWAY SECTION  
 STA 14+34.00 - STA 16+75.00  $\Delta$   
 SCALE 1/4" = 1'-0"



TYPICAL BRIDGE SECTION  
 SCALE 1/4" = 1'-0"

\* STA 11+75.00 - STA 13+60.00

2 LIFTS OF 1 1/2" TYPE IVS OVER  
 1 LIFT OF 3 1/2" TYPE IIS

$\Delta$  \*\* STA 14+34.00 - STA 16+75.00

\*\*\* 1 LIFT OF 1 1/2" TYPE IIIS OVER  
 1 LIFT OF 2 1/2" TYPE IIS

\*\*\* TOP 1 1/2" LIFT DONE BY OTHERS  
 (SEE SPECIAL PROVISIONS)

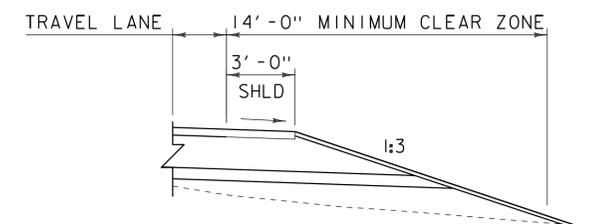
MATERIAL TOLERANCES

(IF USED ON PROJECT)

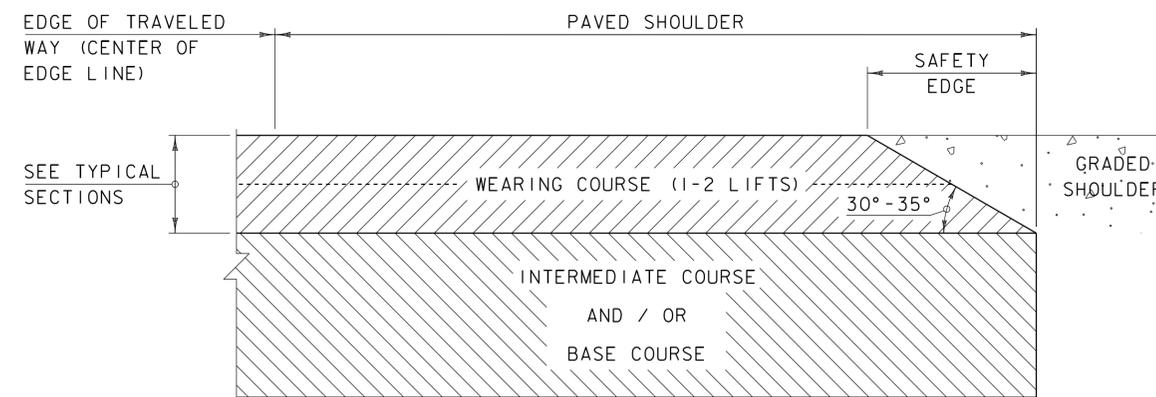
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

PAVEMENT SHALL BE PAID FOR UNDER ITEM 900.680  
 "SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT,  
 SMALL QUANTITY)".

TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED  
 AT A RATE OF 0.025 GAL/SY BETWEEN SUCCESSIVE  
 COURSES OF PAVEMENT AND 0.080 GAL/SY ON COLD  
 PLANED SURFACES AS DIRECTED BY THE ENGINEER.



DETAIL OF TYPICAL WITHOUT GUARDRAIL  
 SCALE 1/4" = 1'-0"



SAFETY EDGE DETAIL

NOT TO SCALE

1. THE EDGE OF PAVEMENT SHALL BE FORMED IN SUCH A WAY THAT THE BITUMINOUS CONCRETE PAVEMENT IS EXTRUDED OR COMPRESSED TO FORM THE 30 TO 35 DEGREE ANGLE. DEVICES THAT SIMPLY STRIKE-OFF THE MIX WITHOUT PROVIDING ANY COMPACTIVE EFFORT WILL NOT BE ALLOWED.
2. THE PAVED SHOULDER EXTENDS FROM THE EDGE OF TRAVELED WAY TO THE EDGE OF THE WEARING COURSE, INCLUDING THE "SAFETY EDGE".

KEY	DATE	BY	REVISION
$\Delta$	02/23/2015	VAOT	ADDED ROADWAY TYPICAL SECTION.

PROJECT NAME:	COLCHESTER	FILE NAME:	s95j298+yp.dgn	PLOT DATE:	23-FEB-2015
PROJECT NUMBER:	STP 5600 (I2)	PROJECT LEADER:	C. CARLSON	DRAWN BY:	G. ROKES
		DESIGNED BY:	N. VANDERBERG	CHECKED BY:	D. PETERSON
		TYPICAL SECTIONS I			SHEET 3 OF 53

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						ROADWAY	ROADWAY (NO FED/STATE PARTICIPATION)	EROSION CONTROL	BRIDGE	FULL C. E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
						1					1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-			<b>EARTHWORKS SUMMARY</b>
						△ 910					910		CY	COMMON EXCAVATION	203.15	6.03			<b>FILL AVAILABLE</b>
						10					10		CY	SOLID ROCK EXCAVATION	203.16	EST.	△ 546	CY	COMMON EXCAVATION (910 x 0.6)
									420		420		CY	UNCLASSIFIED CHANNEL EXCAVATION	203.27	5.6	126	CY	UNCLASSIFIED CHANNEL EXCAVATION (420 x 0.3)
						△ 30					30		CY	SAND BORROW	203.31	1.47	36	CY	TRENCH EXCAVATION OF EARTH (60 x 0.6)
						60					60		CY	TRENCH EXCAVATION OF EARTH	204.20	4.78	213	CY	STRUCTURE EXCAVATION (710 x 0.3)
						5					5		CY	TRENCH EXCAVATION OF ROCK	204.21	EST.	9	CY	ROUNDING
						1					1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-	△ 930	CY	<b>TOTAL FILL AVAILABLE</b>
						110			600		710		CY	STRUCTURE EXCAVATION	204.25	11.17			<b>FILL REQUIRED</b>
						60			410		470		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	16.82	242	CY	FACTORED FILL (210 x 1.15)
						160					160		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	2.81	8	CY	ROUNDING
						△ 150					150		CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	7.76			<b>TOTAL FILL REQUIRED</b>
						△ 1010		10			1020		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	2.11	△ 250	CY	<b>TOTAL FILL REQUIRED</b>
						60					60		CY	AGGREGATE SURFACE COURSE	401.10	8.42			<b>TOTAL WASTE</b>
						△ 2					2		CWT	EMULSIFIED ASPHALT	404.65	0.05	△ 680	CY	<b>TOTAL WASTE</b>
						1					1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-			N.A.B.I. = NOT A BID ITEM
									148		148		CY	CONCRETE, HIGH PERFORMANCE CLASS A	501.33	0.98			
						16			209		225		CY	CONCRETE, HIGH PERFORMANCE CLASS B	501.34	2.65			
									81100		81100		LB	STRUCTURAL STEEL, CURVED PLATE GIRDER	506.56	15.88			
						1480			19180		20660		LB	REINFORCING STEEL, LEVEL I	507.11	25.12			
									30910		30910		LB	REINFORCING STEEL, LEVEL II	507.12	17.57			
									54		54		LF	DRILLING AND GROUTING DOWELS	507.16	-			
									1		1		LS	SHEAR CONNECTORS (860 - 7/8" X 7")	508.15	-			
									231		231		SY	LONGITUDINAL DECK GROOVING	509.10	0.68			
						2			41		43		GAL	WATER REPELLENT, SILANE	514.10	0.82			
									28		28		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	-			
									28		28		LF	JOINT SEALER, HOT POURED	524.11	-			
									150		150		LF	BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION	525.45	0.85			
									1		1		EACH	REMOVAL OF STRUCTURE (725 SF - EST.)	529.15	-			
									8		8		EACH	BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMERIC PAD	531.17	-			
									48		48		CY	CONCRETE, CLASS C	541.30	0.03			
						126					126		LF	18" CPEP(SL)	601.2615	-			
						1					1		MGAL	DUST CONTROL WITH WATER	609.10	EST.			
						60			50		110		CY	STONE FILL, TYPE I	613.10	15.41			
						90			180		270		CY	STONE FILL, TYPE III	613.12	16.4			
						50					50		LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28	-			
						1					1		EACH	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	-			
						10					10		TON	BITUMINOUS CONCRETE SIDEWALK	618.15	0.75			
						21					21		SF	DETECTABLE WARNING SURFACE	618.30	0.74			
						2					2		EACH	YIELDING MARKER POSTS	619.17	-			

PROJECT NAME: COLCHESTER  
PROJECT NUMBER: STP 5600 (I2)

FILE NAME: s95j298qs.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: N. VANDENBERG  
QUANTITY SHEET 1

PLOT DATE: 23-FEB-2015  
DRAWN BY: G. ROKES  
CHECKED BY: N. VANDENBERG  
SHEET 6 OF 53

KEY	DATE	BY	REVISION
△	02/23/2015	VAOT	REVISED QUANTITIES AND ADDED PAY ITEM 301.26.

# QUANTITY SHEET 2

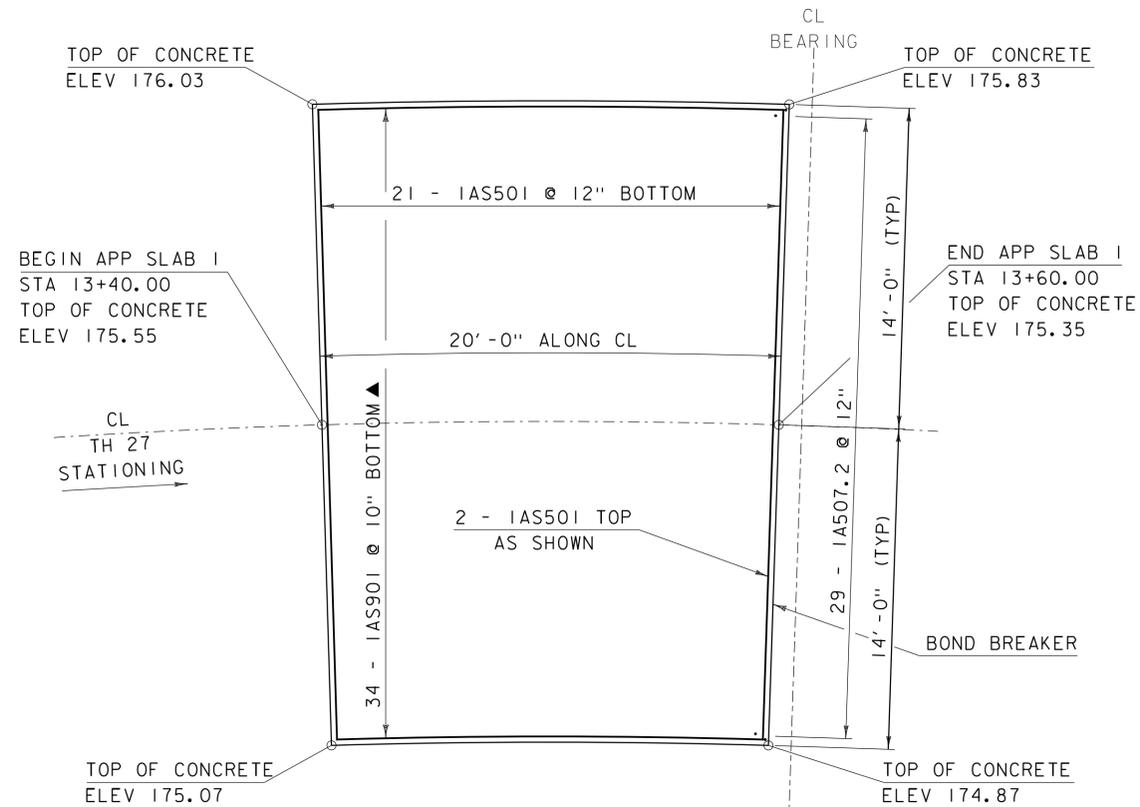
SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						ROADWAY	ROADWAY (NO FED/STATE PARTICIPATION)	EROSION CONTROL	BRIDGE	FULL C. E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
						310					310		LF	HD STEEL BEAM GUARDRAIL, GALVANIZED	621.21	2			
						4					4		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	-			
						4					4		EACH	GUARDRAIL APPROACH SECTION, CONC COMB BRIDGE RAILING TL-3	621.748	-			
						250					250		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	1			
						500					500		HR	FLAGGERS	630.15	EST.			
										1	1		LS	FIELD OFFICE, ENGINEERS	631.10	-			
										1	1		LS	TESTING EQUIPMENT, CONCRETE	631.16	-			
										1	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
										3000	3000		DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	EST.			
						1					1		LS	MOBILIZATION/DEMobilIZATION	635.11	-			
						520					520		LF	4 INCH WHITE LINE	646.20	2			
						520					520		LF	4 INCH YELLOW LINE	646.21	2			
					△	1060					1060		SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11	8.06			
								570			570		SY	GEOTEXTILE UNDER STONE FILL	649.31	7.13			
								100			100		SY	GEOTEXTILE FOR SILT FENCE	649.51	0.46			
								70			70		SY	GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED	649.515	9.08			
								100			100		SY	GEOTEXTILE FOR FILTER CURTAIN	649.61	9.5			
								10			10		LB	SEED	651.15	2.55			
								10			10		LB	SEED, WINTER RYE	651.17	2.55			
								70			70		LB	FERTILIZER	651.18	7.92			
								0.3			0.3		TON	AGRICULTURAL LIMESTONE	651.20	0.05			
								0.3			0.3		TON	HAY MULCH	651.25	0.05			
								80			80		CY	TOPSOIL	651.35	5.3			
								250			250		SY	GRUBBING MATERIAL	651.40	2.53			
								1			1		LS	EPSC PLAN	652.10	-			
								40			40		HR	MONITORING EPSC PLAN	652.20	EST.			
								1			1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	-			
								230			230		SY	TEMPORARY EROSION MATTING	653.20	7.38			
								10			10		CY	TEMPORARY STONE CHECK DAM, TYPE I	653.25	EST.			
								30			30		CY	VEHICLE TRACKING PAD	653.35	-			
								750			750		LF	BARRIER FENCE	653.50	1.87			
								230			230		LF	PROJECT DEMARCATION FENCE	653.55	1.88			
						6.91					6.91		SF	TRAFFIC SIGNS, TYPE A	675.20	-			
						46					46		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-			
						2					2		EACH	REMOVING SIGNS	675.50	-			
							2				2		EACH	SPECIAL PROVISION (PRECAST REINFORCED CONCRETE PERFORATED CATCH BASIN WITH CAST IRON GRATE)	900.620	-			
							40				40		LF	SPECIAL PROVISION (15 INCH UNDERDRAIN PIPE)	900.640	-			
						1					1		LS	SPECIAL PROVISION (CPM SCHEDULE)	900.645	-			
									1		1		LS	SPECIAL PROVISION (QC/QA CLEANING AND PAINTING STRUCTURAL COMPONENTS)	900.645	-			
						1					1		LS	SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)	900.645	-			

N.A.B.I = NOT A BID ITEM

PROJECT NAME: COLCHESTER  
PROJECT NUMBER: STP 5600 (I2)  
FILE NAME: s95j298qs.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: N. VANDENBERG  
QUANTITY SHEET 2  
PLOT DATE: 23-FEB-2015  
DRAWN BY: G. ROKES  
CHECKED BY: N. VANDENBERG  
SHEET 7 OF 53

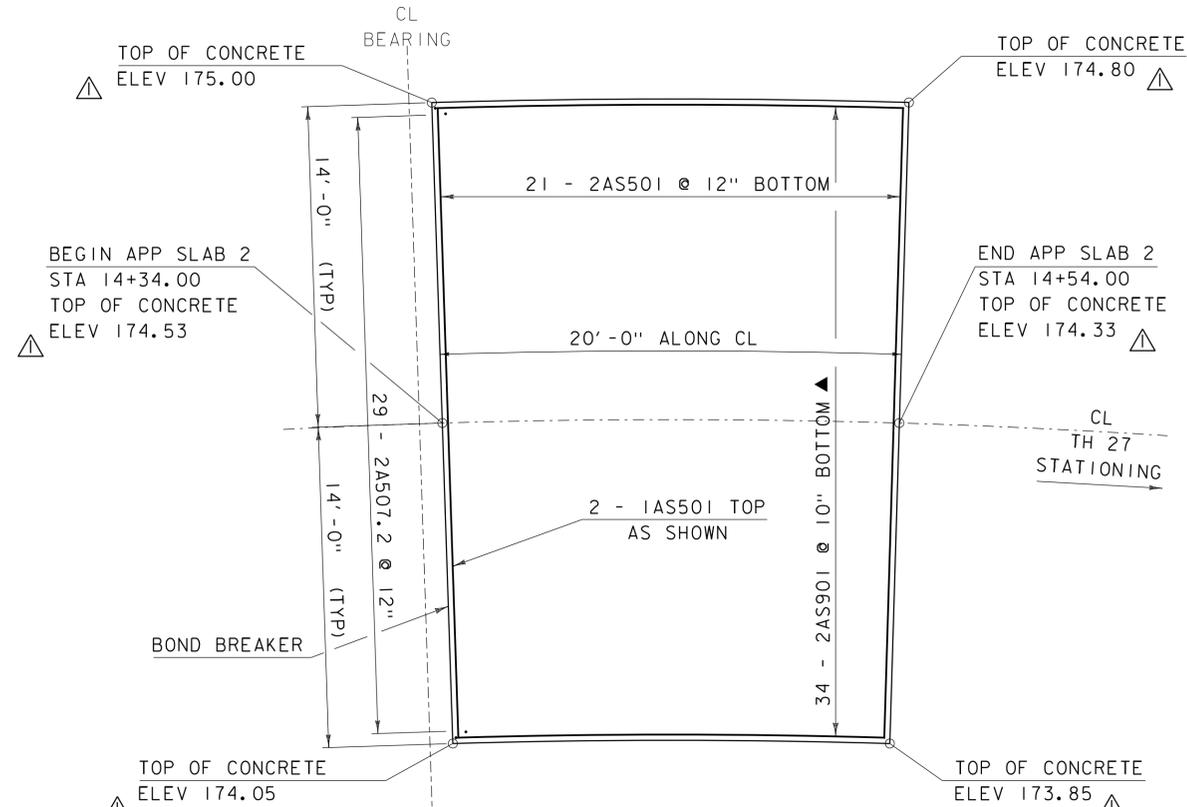
KEY	DATE	BY	REVISION
△	02/23/2015	VAOT	ADDED PAY ITEM 649.11.





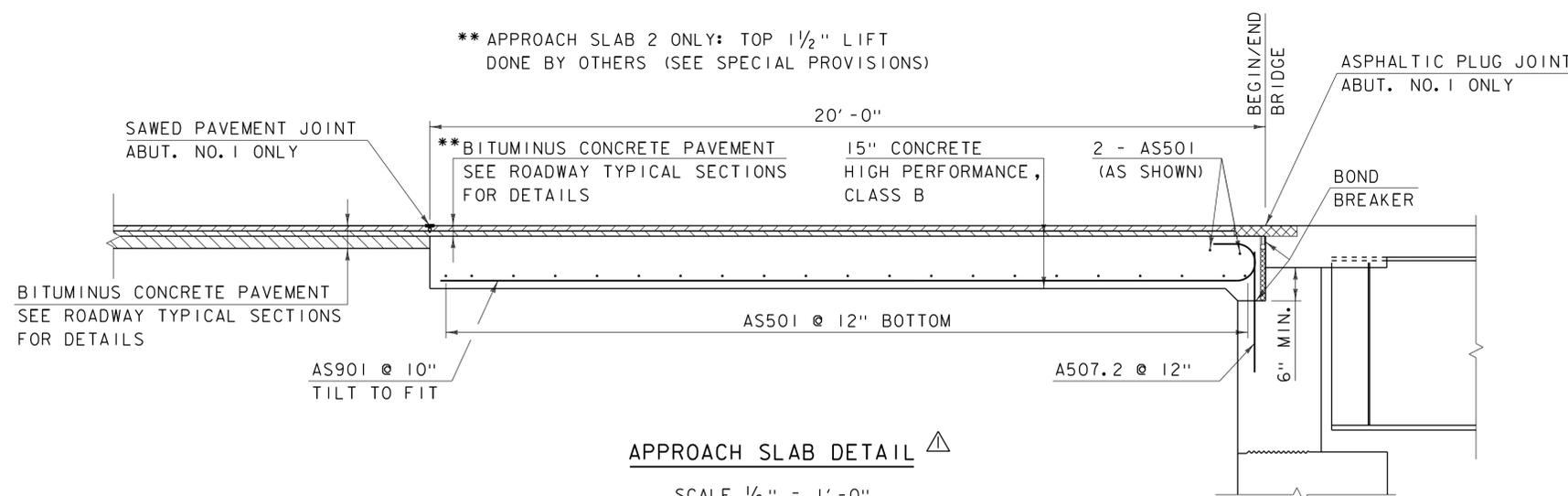
APPROACH SLAB 1 PLAN

SCALE 1/4" = 1'-0"



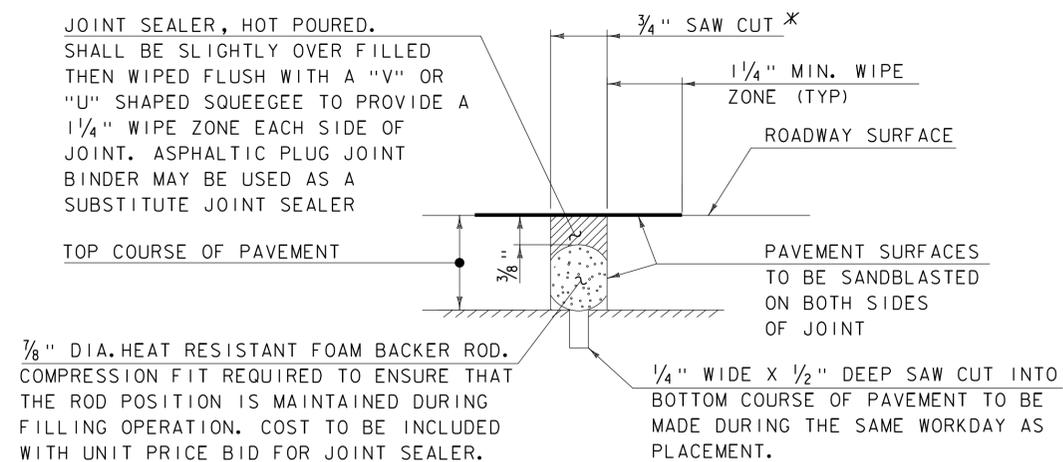
APPROACH SLAB 2 PLAN

SCALE 1/4" = 1'-0"



APPROACH SLAB DETAIL

SCALE 1/2" = 1'-0"



SAWED PAVEMENT JOINT DETAIL

(NOT TO SCALE)

NOTES:

1. COMPACT THE SUBBASE IN THE AREA UNDER THE APPROACH SLAB TO A SMOOTH SURFACE.
2. POUR APPROACH SLAB CONCRETE IN THE EARLY MORNING BEFORE THE SUPERSTRUCTURE EXPANDS.
3. PLACE HOOKED ENDS OF BOTTOM STEEL AT ABUTMENT END OF SLAB.

NOTE:

NF = NEAR FACE  
 FF = FAR FACE  
 EF = EACH FACE  
 ▲ = CUT TO FIT IN FIELD  
 3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.  
 2'-2" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

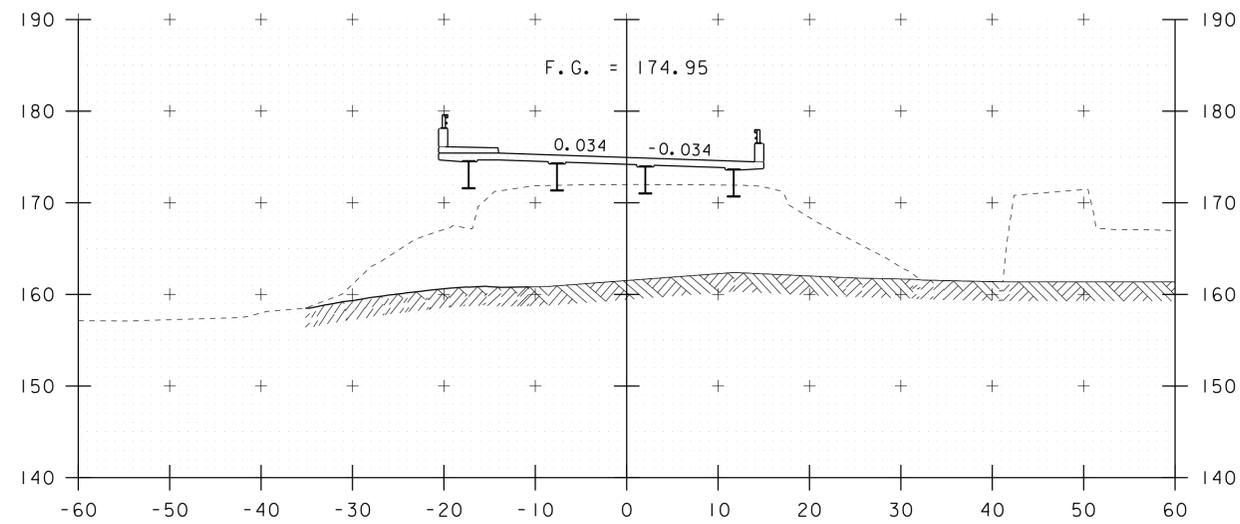
\* JOINT IS TO BE LOCATED ACCURATELY BY STRING LINING, OR OTHER MEANS, PRIOR TO PAVING, SO THAT THE SAW CUTS WILL BE MADE DIRECTLY OVER THE END OF CONCRETE DECK. JOINT SHALL BE CUT DRY IN A SINGLE PASS AND BE SEALED WITHIN 24 HOURS OR PRIOR TO EXPOSURE TO TRAFFIC. JOINT SHALL BE CLEANED PRIOR TO APPLYING THE JOINT SEALER.

KEY	DATE	BY	REVISION
▲	02/23/2015	VAOT	MODIFIED APPROACH SLAB 2 ELEVATIONS.

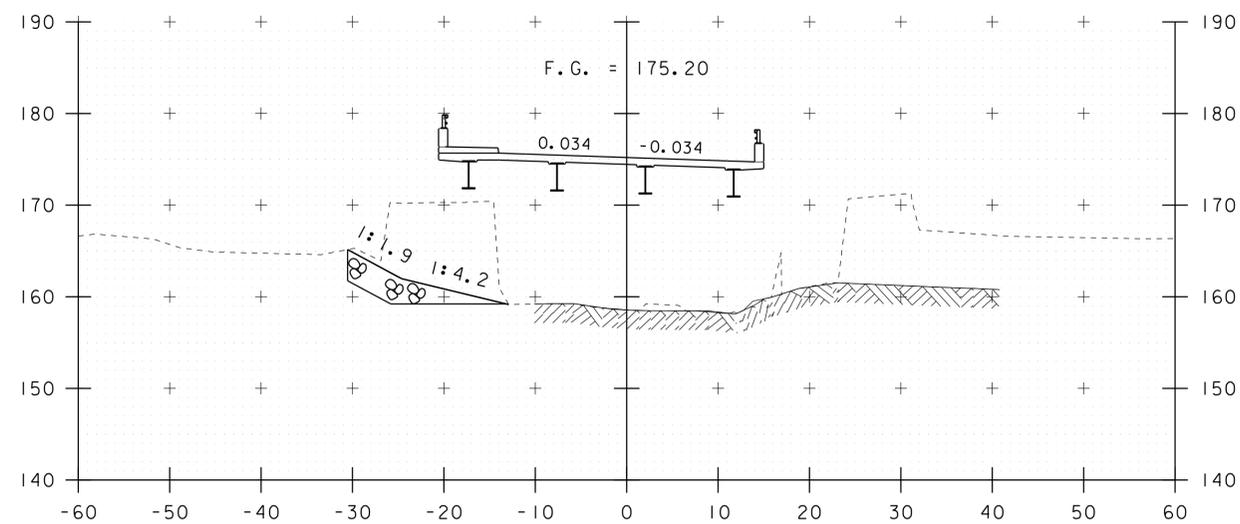
PROJECT NAME: COLCHESTER  
 PROJECT NUMBER: STP 5600 (I2)  
 FILE NAME: s95j298sup.dgn  
 PROJECT LEADER: C. CARLSON  
 DESIGNED BY: N. VANDENBERG  
 APPROACH SLABS

PLOT DATE: 23-FEB-2015  
 DRAWN BY: D. KARABEGOVIC  
 CHECKED BY: M. LONGSTREET  
 SHEET 29 OF 53

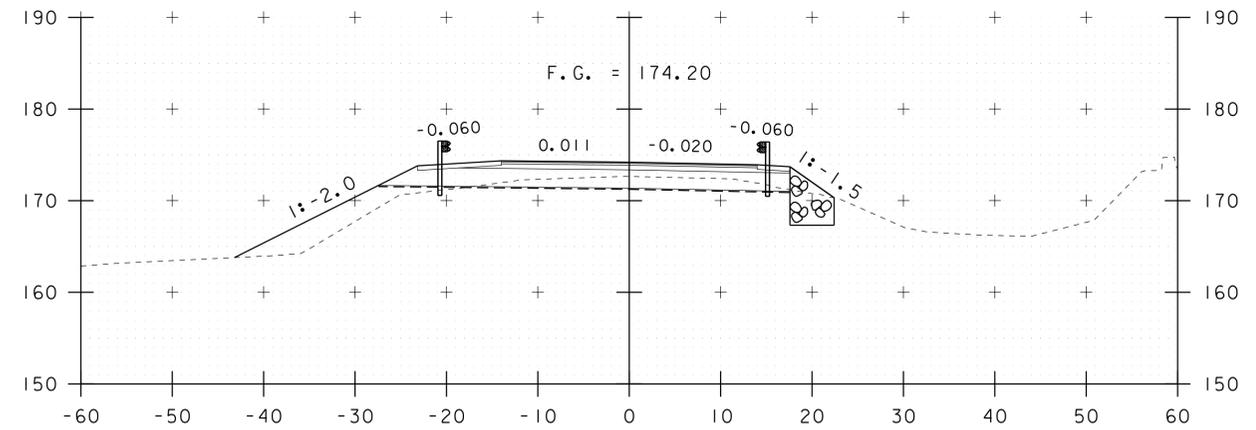
END BRIDGE STA. 14+34.00



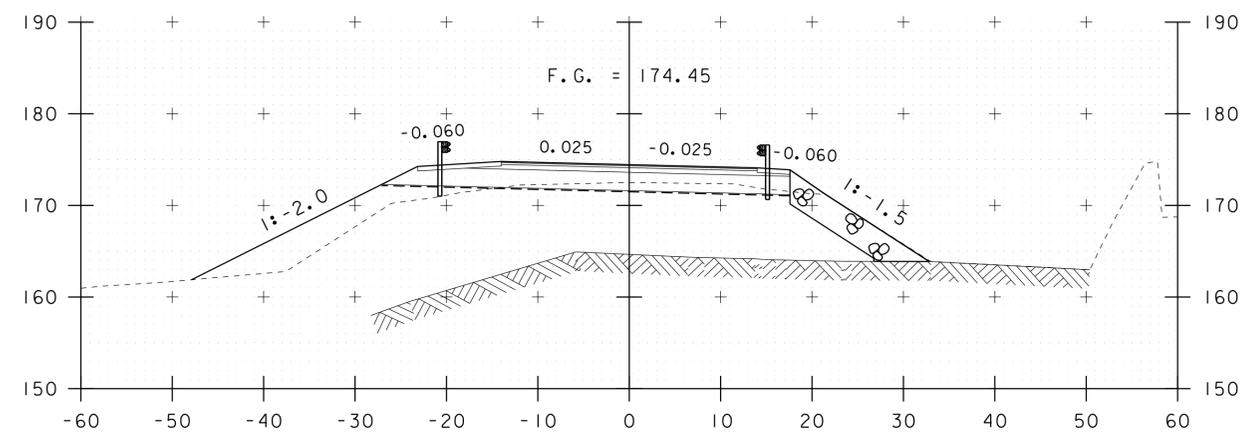
14+25



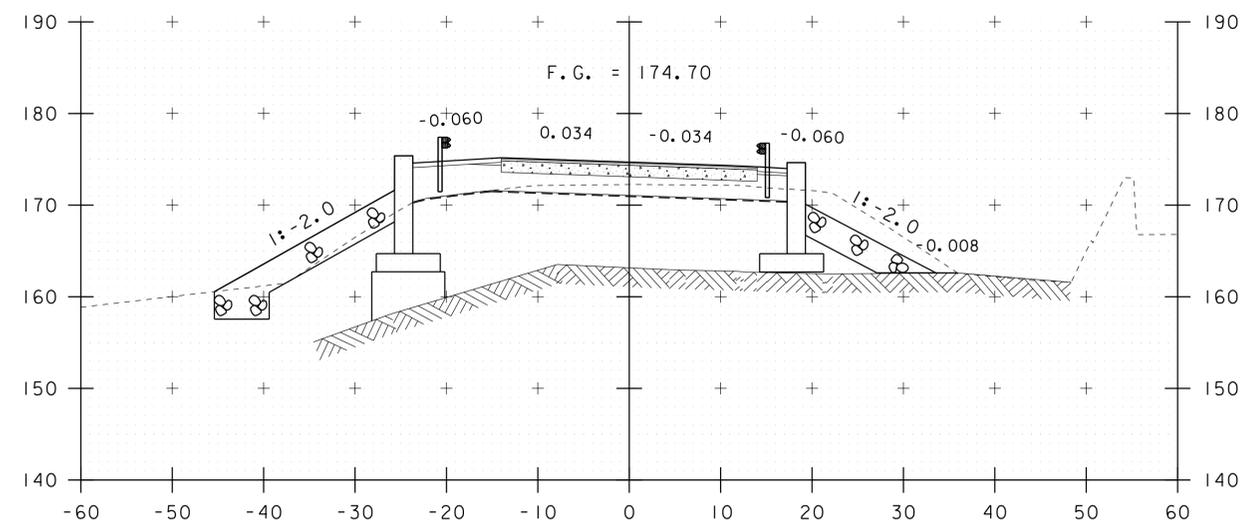
14+00



15+00  $\triangle$



14+75  $\triangle$



14+50  $\triangle$

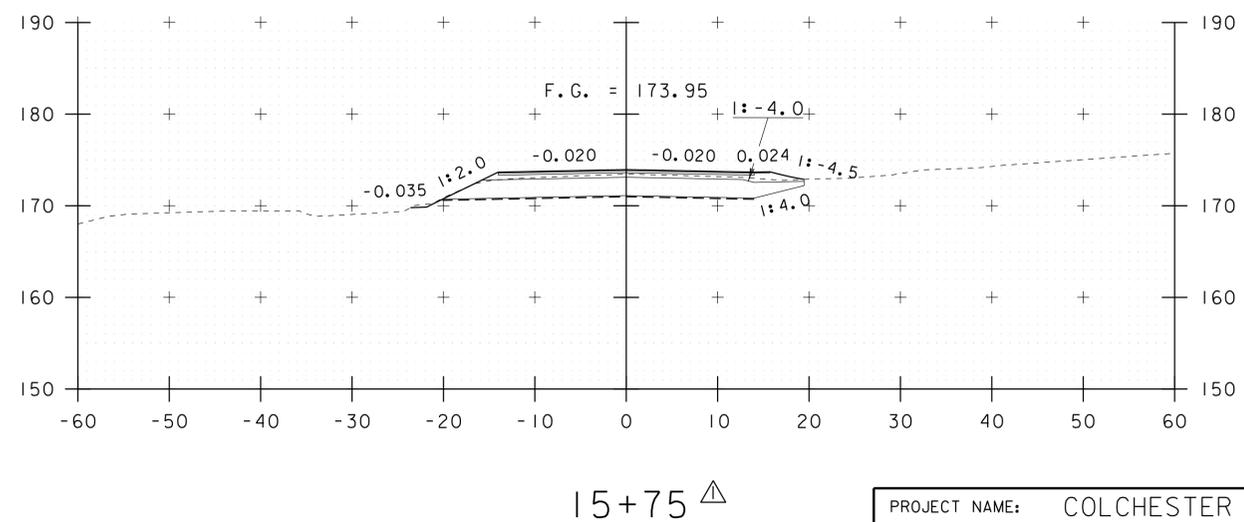
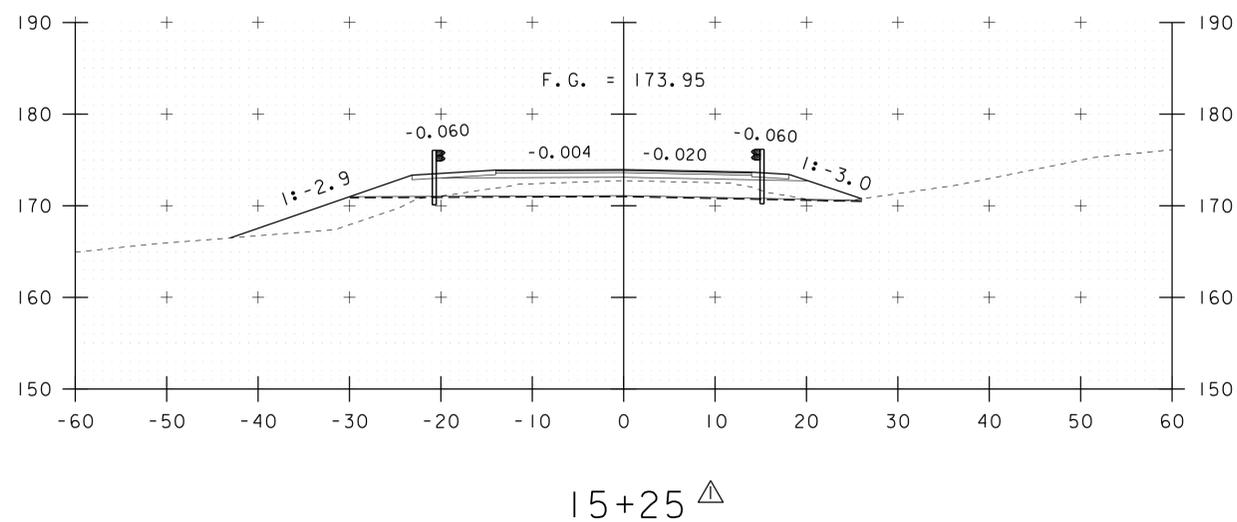
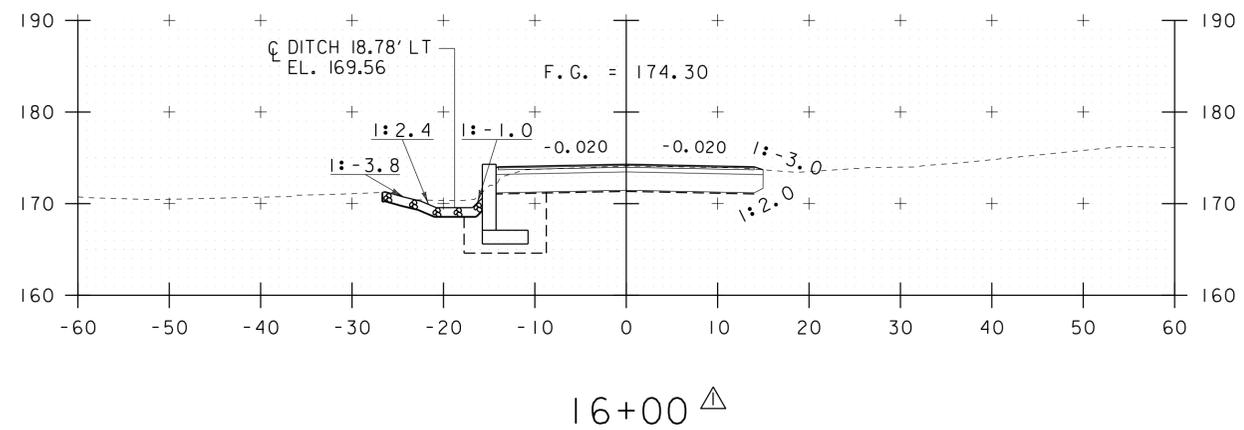
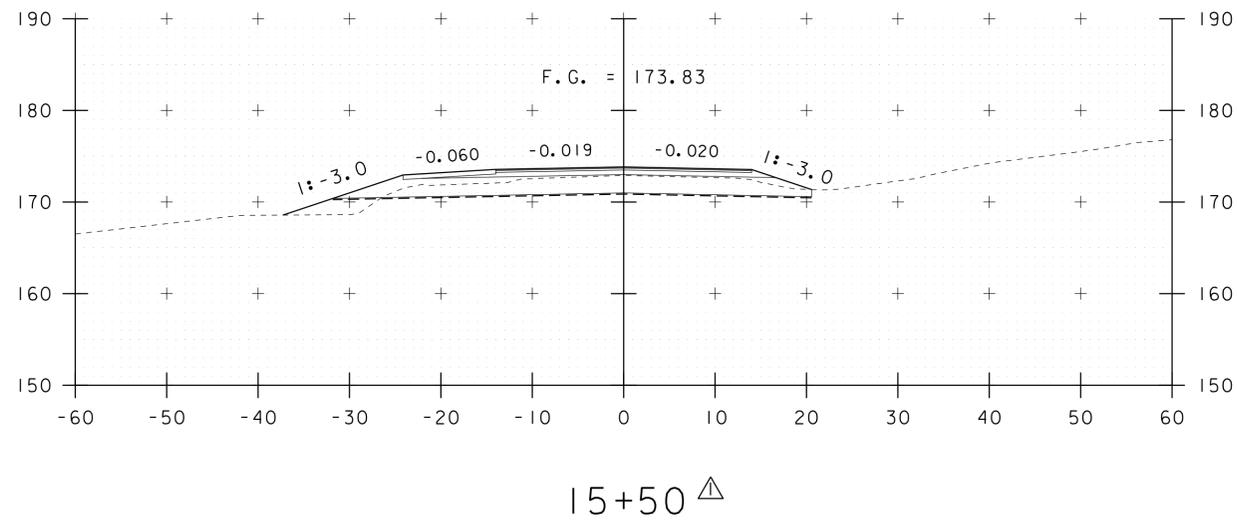
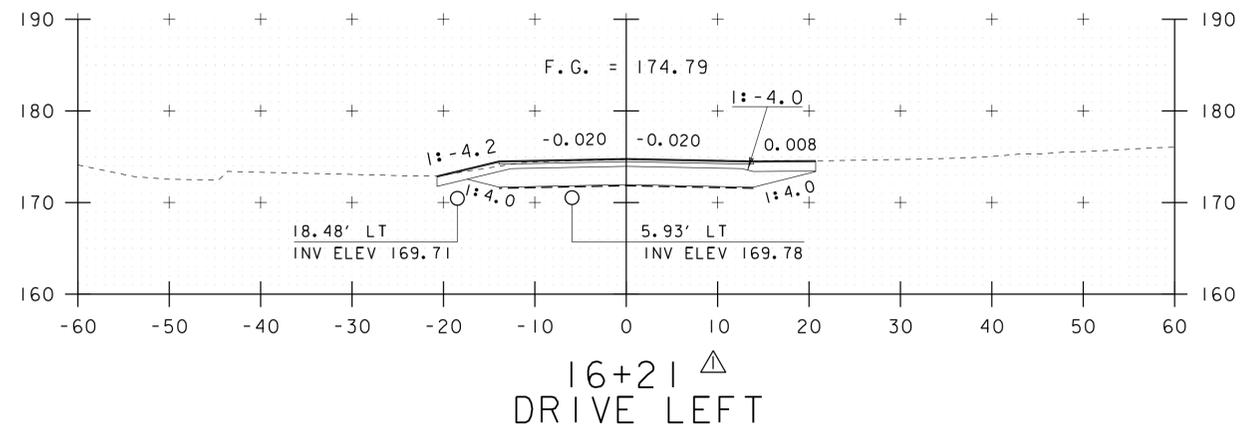
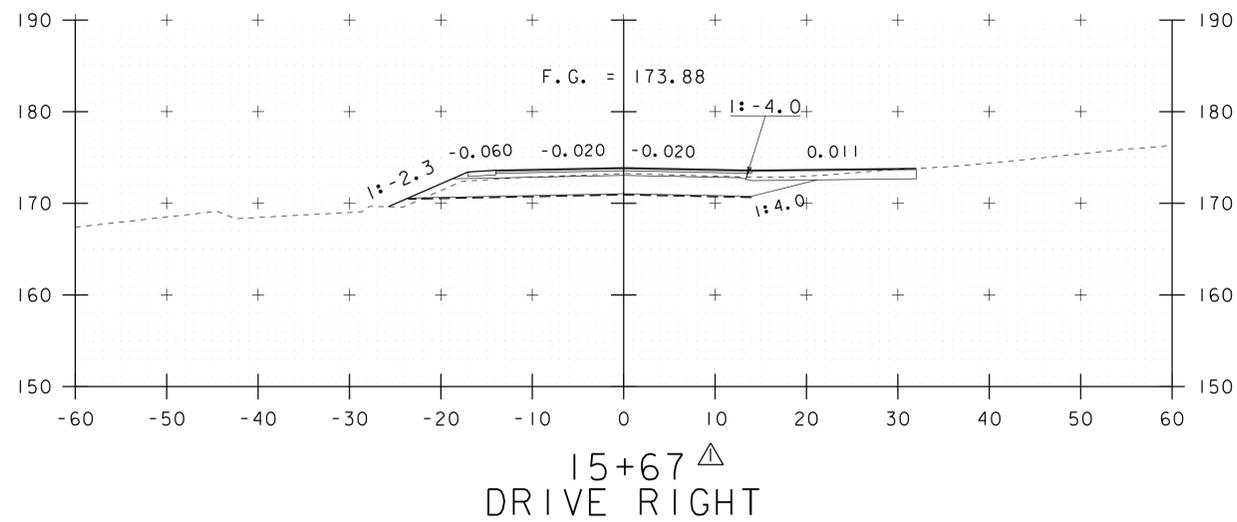
KEY	DATE	BY	REVISION
$\triangle$	02/23/2015	VAOT	MODIFIED ROADWAY MATERIAL DEPTHS.

PROJECT NAME: COLCHESTER  
PROJECT NUMBER: STP 5600 (12)

FILE NAME: s95j298xs.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: N. VANDERBERG  
ROADWAY CROSS SECTIONS 3

PLOT DATE: 23-FEB-2015  
DRAWN BY: G. ROKES  
CHECKED BY: D. PETERSON  
SHEET 38 OF 53

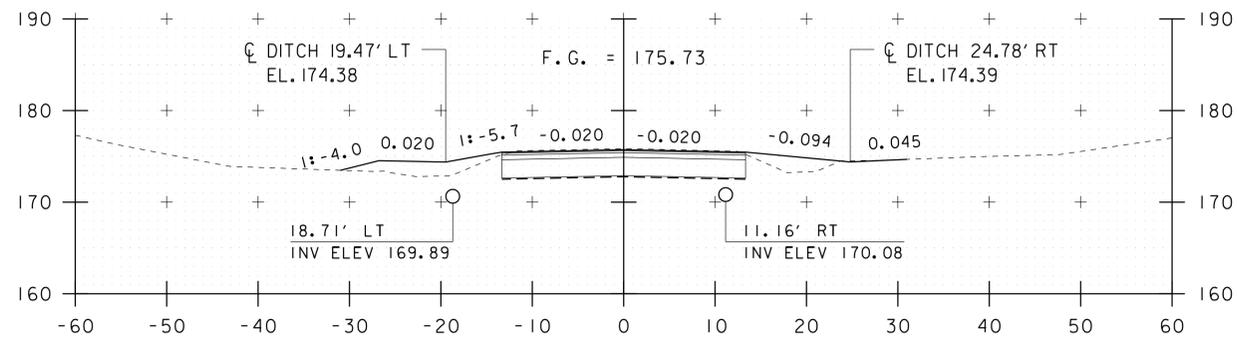
STA. 14+00 TO STA. 15+00



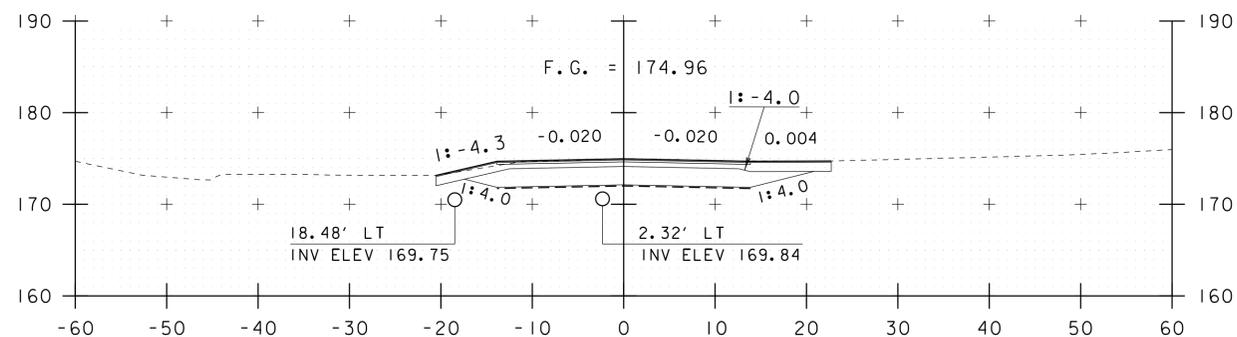
KEY	DATE	BY	REVISION
$\triangle$	02/23/2015	VAOT	MODIFIED ROADWAY MATERIAL DEPTHS.

STA. 15+25 TO STA. 16+21

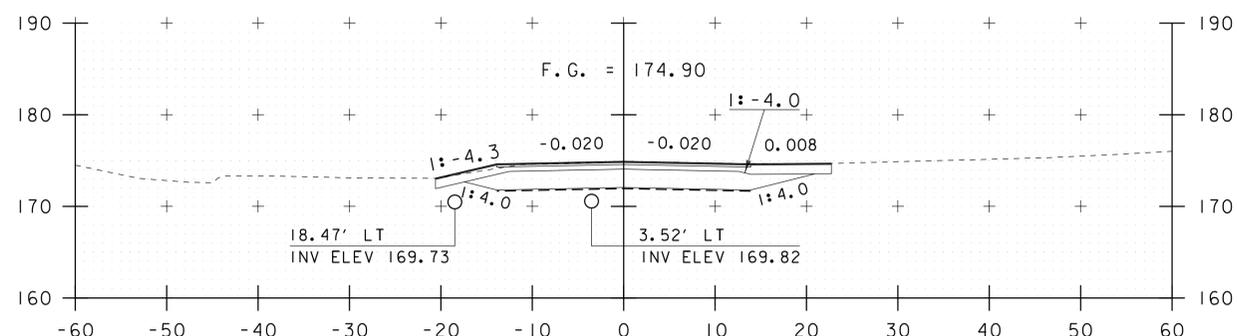
PROJECT NAME:	COLCHESTER	PLOT DATE:	23-FEB-2015
PROJECT NUMBER:	STP 5600 (12)	DRAWN BY:	G. ROKES
FILE NAME:	s95j298xs.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. CARLSON	SHEET	39 OF 53
DESIGNED BY:	N. VANDERBERG		
ROADWAY CROSS SECTIONS	4		



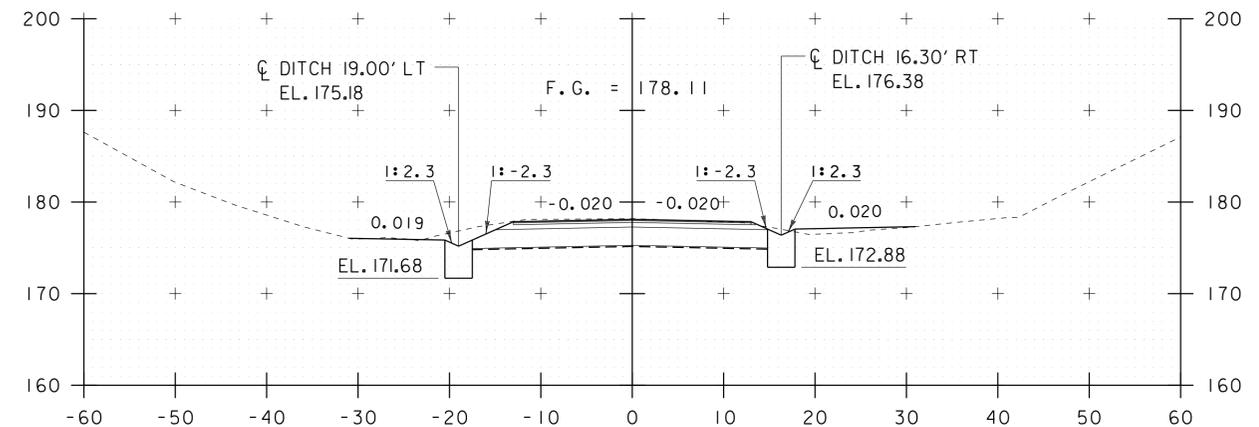
16+50  $\triangle$



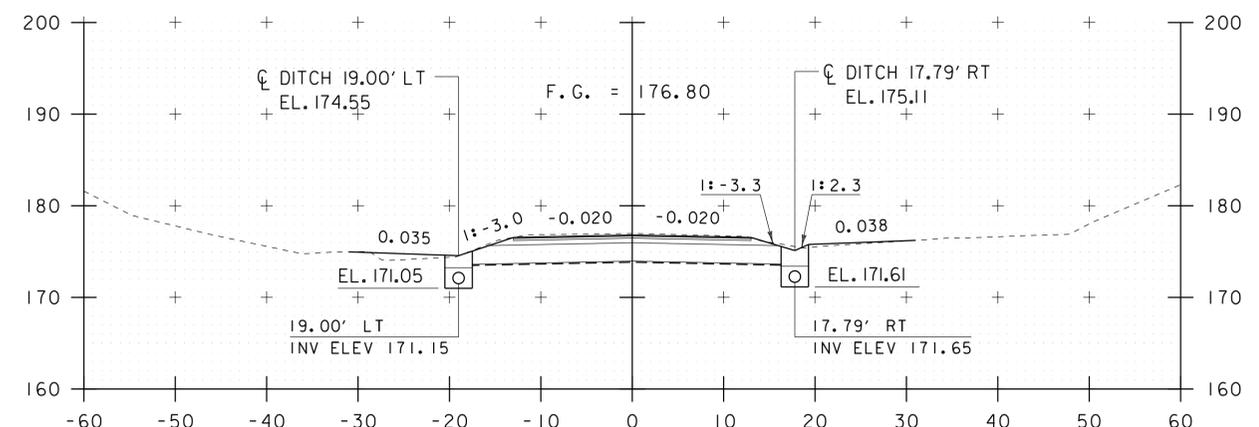
16+27  $\triangle$   
DRIVE RIGHT



16+25  $\triangle$



17+00



16+75  $\triangle$

END VAOT PROJECT  
COLCHESTER STP 5600 (12)  
BEGIN TOWN OF COLCHESTER  
MILL POND ROAD  
ROADWAY RECONSTRUCTION

STA. 16+25 TO STA. 17+00

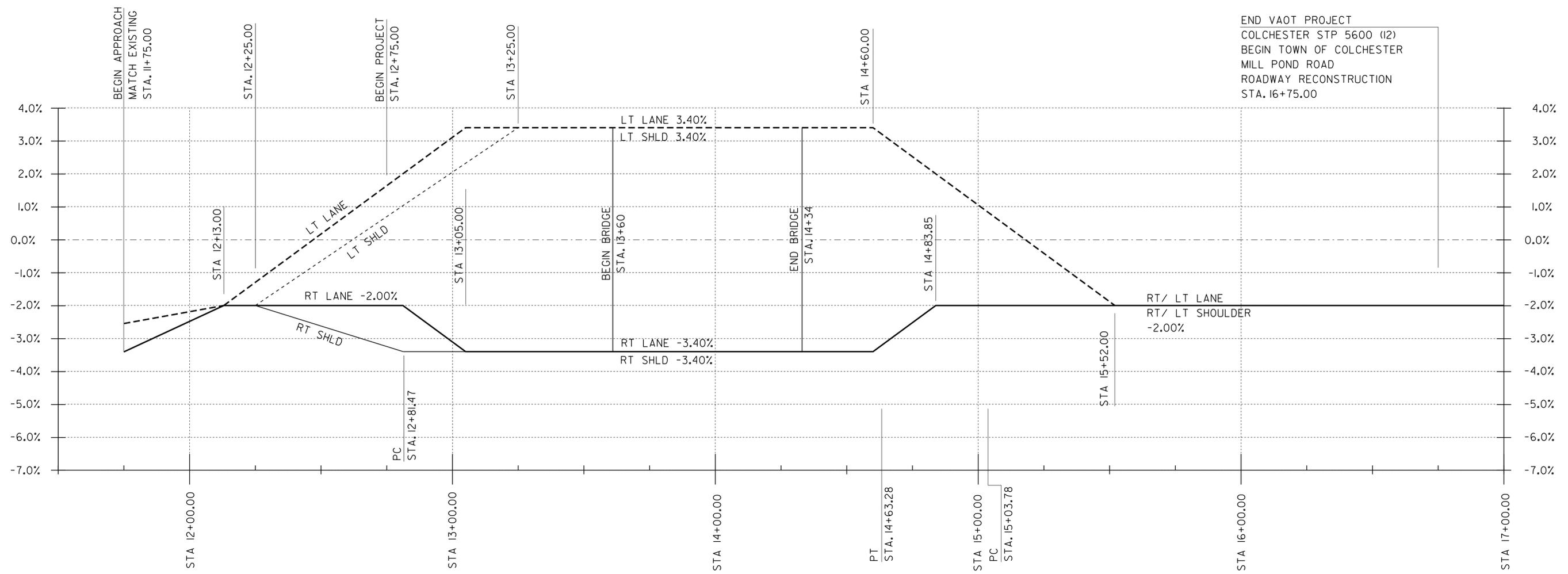
PROJECT NAME: COLCHESTER  
PROJECT NUMBER: STP 5600 (12)

FILE NAME: s95j298xs.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: N. VANDERBERG  
ROADWAY CROSS SECTIONS 5

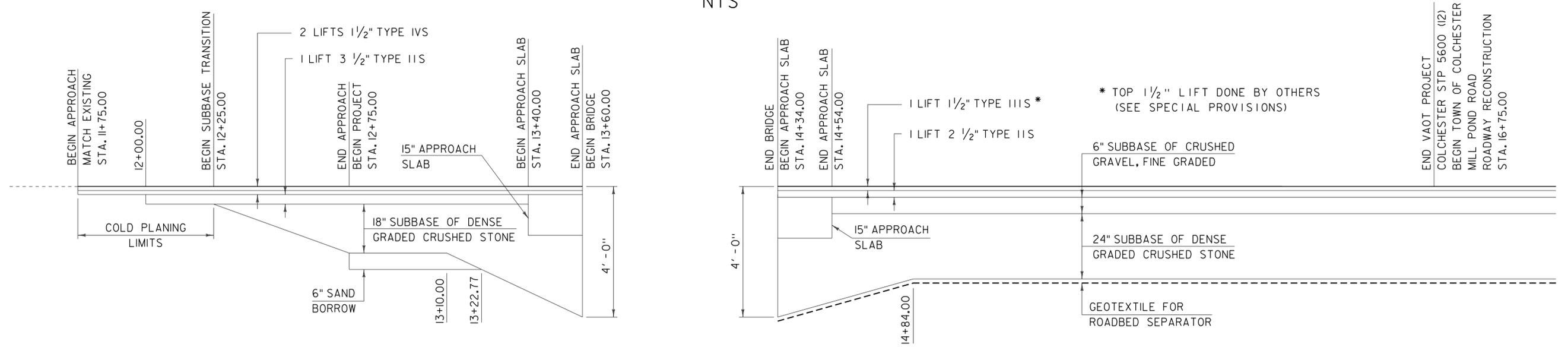
PLOT DATE: 23-FEB-2015  
DRAWN BY: G. ROKES  
CHECKED BY: D. PETERSON  
SHEET 40 OF 53

KEY	DATE	BY	REVISION
$\triangle$	02/23/2015	VAOT	MODIFIED ROADWAY MATERIAL DEPTHS.

END VAOT PROJECT  
 COLCHESTER STP 5600 (I2)  
 BEGIN TOWN OF COLCHESTER  
 MILL POND ROAD  
 ROADWAY RECONSTRUCTION  
 STA. 16+75.00



BANKING DIAGRAM  
 NTS

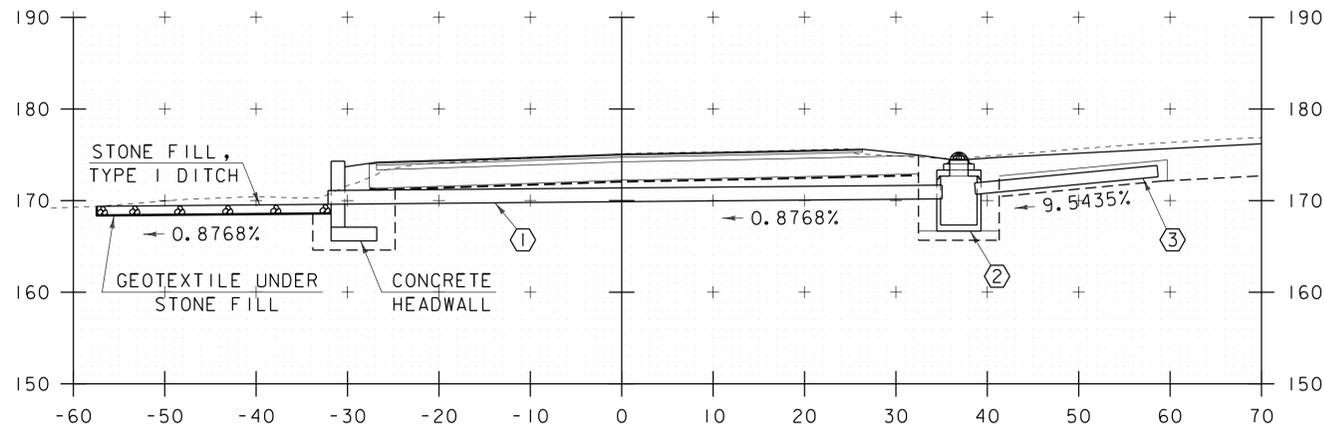


MATERIAL TRANSITION  
 NTS

PROJECT NAME: COLCHESTER		PLOT DATE: 23-FEB-2015	
PROJECT NUMBER: STP 5600 (I2)		DRAWN BY: G. ROKES	
FILE NAME: s95j298xs.dgn	DESIGNED BY: N. VANDERBERG	CHECKED BY: N. VANDERBERG	MATERIAL TRANSITION AND BANKING DIAGRAM SHEET 41 OF 53

KEY	DATE	BY	REVISION
△	02/23/2015	VAOT	MODIFIED MATERIAL TRANSITION AFTER BRIDGE.

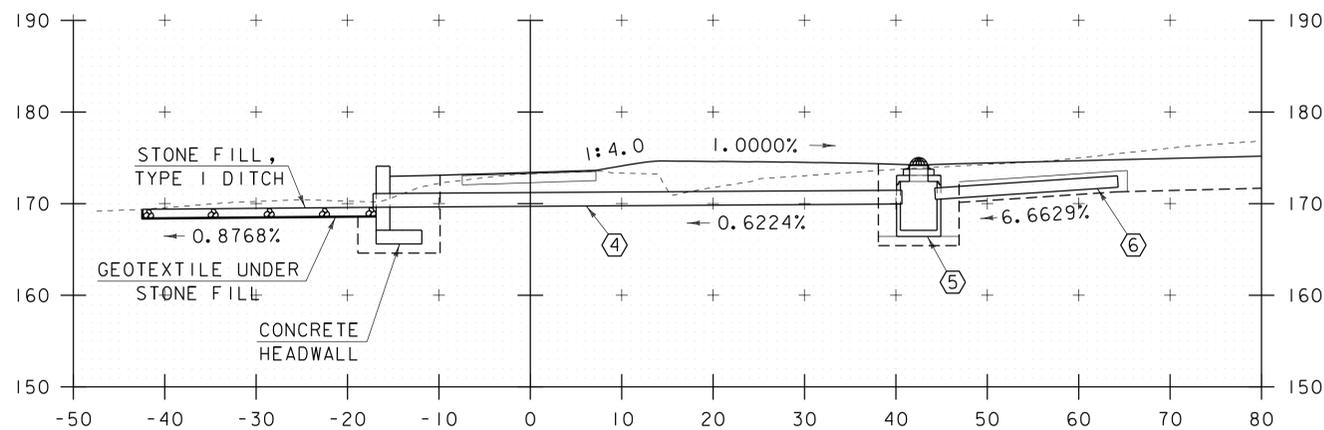
- ① STA 16+03.58, 16.69' LT - STA 16+61.38, 17.60' RT  
NEW 18" X 68' CPEP (SL)  
INLET INV ELEV 170.19; OUTLET INV ELEV 169.60
- ② STA 16+63.00, 18.50' RT  
NEW PRECAST REINFORCED CONCRETE PERFORATED CATCH  
BASIN WITH BEE-HIVE TYPE GRATE  
RIM ELEV 174.50; SUMP ELEV 167.34
- ③ STA 16+64.85, 18.40' RT - STA 16+85.07, 17.24' RT  
NEW 15" X 20' UNDERDRAIN PIPE  
INLET INV ELEV 172.60; OUTLET INV ELEV 170.69



**DRAINAGE 1 PROFILE**  $\Delta$

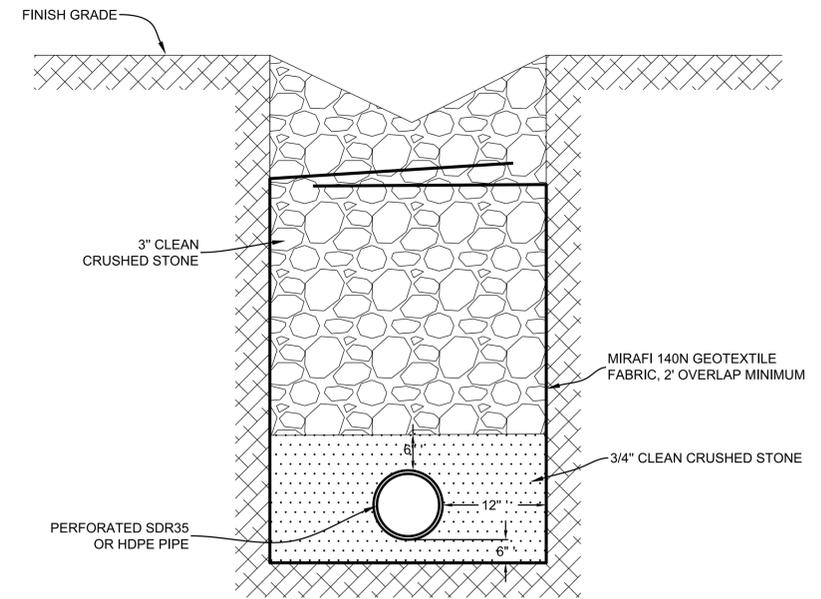
SCALE: 1" = 10'-0"  
10 0 10

- ④ STA 16+04.08, 18.62' LT - STA 16+61.19, 18.95' LT  
NEW 18" X 58' CPEP (SL)  
INLET INV ELEV 169.96; OUTLET INV ELEV 169.60
- ⑤ STA 16+63.00, 19.00' LT  
NEW PRECAST REINFORCED CONCRETE PERFORATED CATCH  
BASIN WITH BEE-HIVE TYPE GRATE  
RIM ELEV 174.25; SUMP ELEV 167.09
- ⑥ STA 16+64.81, 18.99' LT - STA 16+84.55, 18.95' LT  
NEW 15" X 20' UNDERDRAIN PIPE  
INLET INV ELEV 171.79; OUTLET INV ELEV 170.46



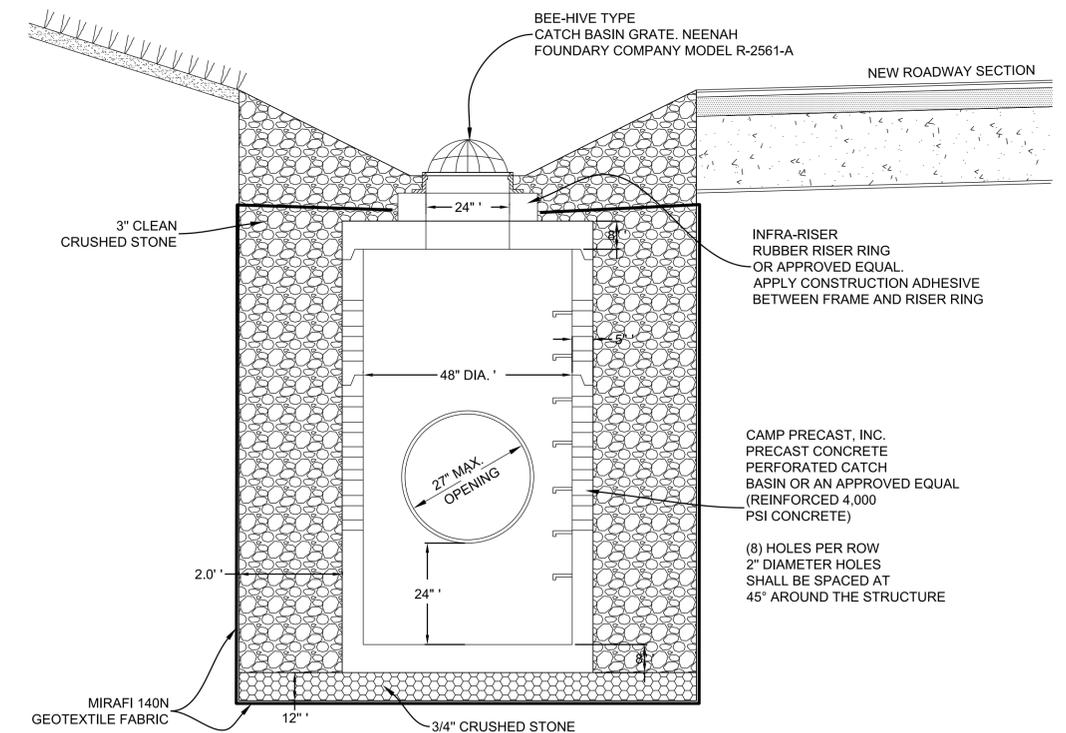
**DRAINAGE 2 PROFILE**

SCALE: 1" = 10'-0"  
10 0 10



**TYPICAL TRENCH DETAIL  
UNDERDRAIN PIPE**

NTS  
PAY ITEM 900.640, SPECIAL PROVISION (15 INCH UNDERDRAIN PIPE)



**TYPICAL 48" DIA. CATCH BASIN**

NTS  
PAY ITEM 900.620, SPECIAL PROVISION (PRECAST REINFORCED CONCRETE PERFORATED CATCH BASIN WITH CAST IRON GRATE)

KEY	DATE	BY	REVISION
$\Delta$	02/23/2015	VAOT	MODIFIED ROADWAY MATERIAL DEPTHS.

PROJECT NAME: COLCHESTER	PLOT DATE: 23-FEB-2015
PROJECT NUMBER: STP 5600 (12)	DRAWN BY: G. ROY
FILE NAME: s95j298xs.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. CARLSON	SHEET 42 OF 53
DESIGNED BY: G. ROY	
DRAINAGE PROFILES	