STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLAN LEGEND

Town, County, State		Catch Basins	Existing ■ Proposed
Property Lines		Manholes	Existing ● Proposed
R/W Lines-Existing		Proposed Underdrain	
R/W Lines-Proposed		Proposed Ditch	
Culvert-Existing		Existing Ditch	
Culvert Proposed		Utility Poles	Existing ♦ Proposed
Curbing	Existing / Proposed	Fire Hydrants	Existing ◈ Proposed
Type 1		Existing Water Line	
Type 3		Existing San. Sewer	
Type 5		Existing San. Sewer Manhole	
Outline of Bodies of Water		Guardrail-Existing	
Exposed Bedrock		Guardrail-Proposed	
Buildings		Guardrail-Cable, Other	
Trees	Conifer / Deciduous	Centerline-Existing	
Tree Line		Centerline-Proposed	10+00
Clearing Limit Line		Travelway-Existing	
Railroad		Travelway-Proposed	

Boring — HB-XXX-###

Pavement Core — PC-#

Test Pit — TP-XXX-###

Probe — P-#.#X

#.# = Depth

X = W (Weathered Rock)
R (Refusal)
NR (No Refusal)

HAMPDEN
PENOBSCOT COUNTY

U.S. ROUTE 1A

PROJECT NO. STP-1157(700)X

PROJECT LENGTH : 1.73 MILES

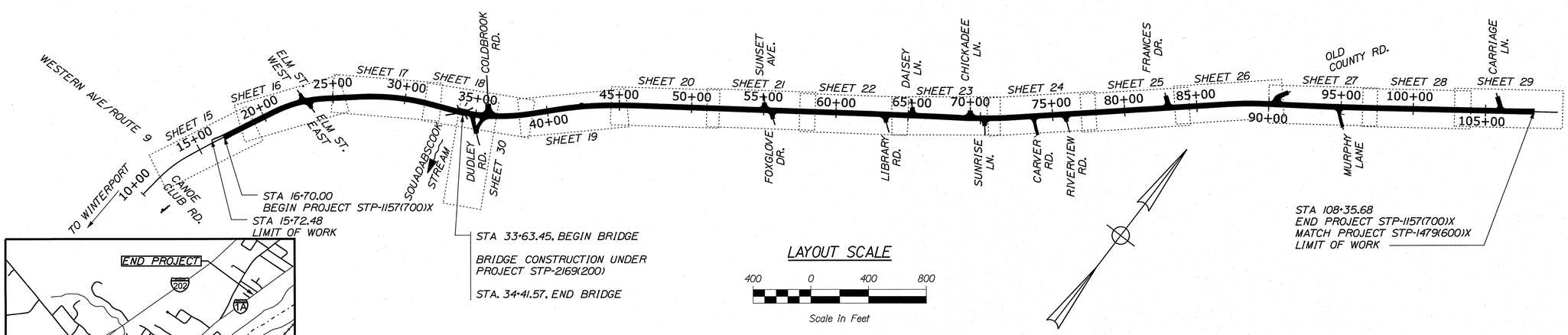
GRIST MILL BRIDGE
OVER
SOUADABSCOOK STREAM

PROJECT NO. STP-2169(200)

BRIDGE NO. 2334

INDEX OF SHEETS

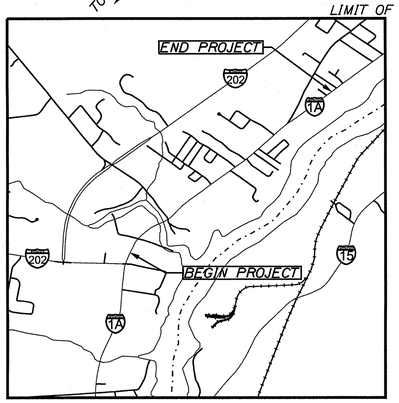
Description	Sheet No.
Title Sheet	1
Typical Sections	2-4
Estimated Quantities	5-7
Drainage Summary Sheets	8-11
General Notes	12
Construction Notes	13-14
Plan & Profiles	15-30
Side Road Profiles	31-33
Intersection Geometry Plans	34-36
Grist Mill Bridge Plans	37-60
Cross Sections	61-182
Side Road Cross Sections	183-199
Right of Way Maps	200-213
Appendix A (Utility Plans)	G000-E201



LAYOUT SCALE

400 0 400 800

Scale in Feet



LOCATION MAP

TRAFFIC DATA

Current (2018) AADT	6330
Future (2038) AADT	6960
DHV - % of AADT	10%
Design Hour Volume	696
% Heavy Trucks (AADT)	5%
% Heavy Trucks (DHV)	3%
Directional Distribution (DHV)	53%
18 kip Equivalent P 2.0	121
18 kip Equivalent P 2.5	115
Design Speed (mph)	25/35
Functional Class:	MINOR RURAL ARTERIAL
Corridor Priority	3

T·Y·LIN INTERNATIONAL

PROJECT LOCATION:	BEGINNING JUST NORTH OF THE INTERSECTION WITH ROUTE 9 (WESTERN AVE.) AND EXTENDING NORTH APPROXIMATELY 1.73 MILES ENDING JUST NORTH OF CARRIAGE LANE.
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	HIGHWAY RECONSTRUCTION, SIDEWALK CONSTRUCTION, AND DRAINAGE IMPROVEMENTS ALONG ROUTE 1A

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED

COMMISSIONER: [signature] DATE 3-19-19

CHIEF ENGINEER: [signature] DATE 3-19-19

STATE OF MAINE · KEVIN S. DUCHARME · No. 7405 · LICENSED PROFESSIONAL ENGINEER

PROJECT INFORMATION			
	HIGHWAY / BRIDGE	SIGNATURE	
PROGRAM			
PROJECT MANAGER	R. MOULTON / L. TIMBERLAKE	P.E. NUMBER	
DESIGNER	S. DAVIS / B. TOOTHAKER		
CONSULTANT	T.Y. LIN INTERNATIONAL	DATE	
PROJECT RESIDENT			
CONTRACTOR			
PROJECT COMPLETION DATE			

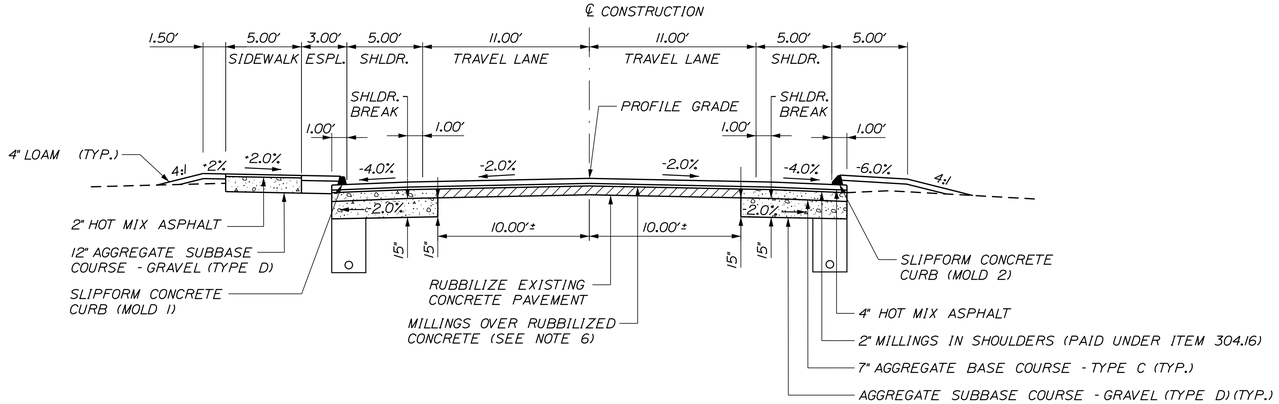
HAMPDEN
ROUTE 1A

TITLE SHEET

SHEET NUMBER
1
OF 213

WIN 11577.00 STP-1157(700)X WIN 02162.00 STP-2169(200)

Filename: ...\00\HIGHWAY\MSTA\001_Title.dgn Division: HIGHWAY Username: Date:3/7/2019



AGGREGATE BASE COURSE - TYPE C		
LEFT SHOULDER 10.80 CY/100 LF	N/A	RIGHT SHOULDER 10.80 CY/100 LF
AGGREGATE SUBBASE COURSE - GRAVEL		
LEFT SHOULDER 51.52 CY/100 LF	11' TRAVEL LANES VARIES CY/100 LF	RIGHT SHOULDER 26.85 CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION
16+70 TO 19+00, LT *	17+25 TO 19+00	19+50 TO 20+30, RT *
47+50 TO 85+50, LT	47+50 TO 67+00	57+25 TO 61+77, RT
91+50 TO 105+67, LT	73+50 TO 85+50	64+96 TO 65+75, RT
	91+50 TO 108+25	

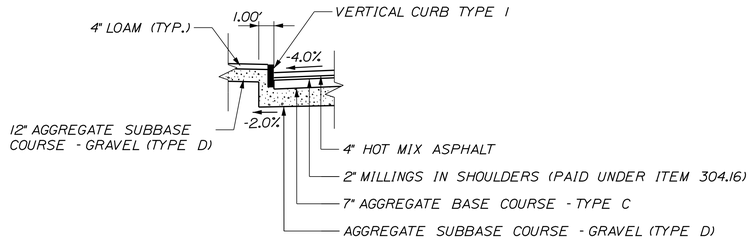
* USE VERTICAL CURB TYPE 1 - SEE VERTICAL CURB TYPE 1 DETAIL

PAVEMENT REHABILITATION

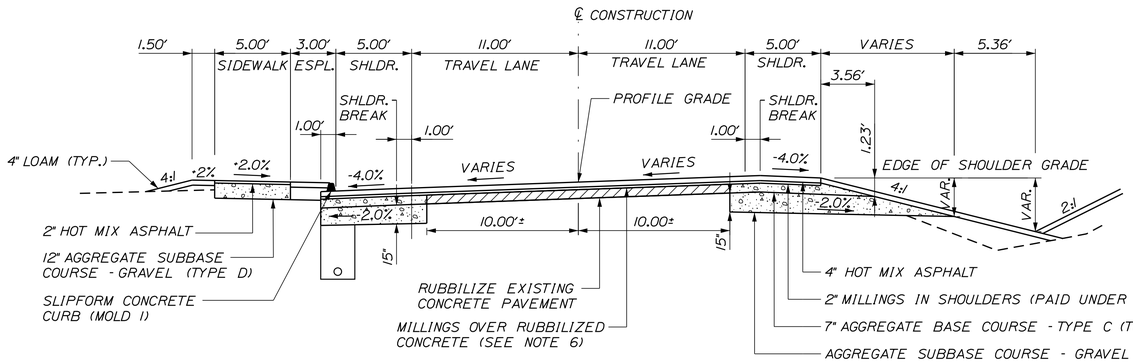
NORMAL

NOTES:

1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. CROWNS FOR BOTH NORMAL AND SUPERELEVATED SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
3. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 4" LOAM DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
4. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEL LANE CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.
5. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
6. AFTER RUBBLIZING, ALL AREAS ABOVE EXISTING CONCRETE SHALL BE BROUGHT TO PAVEMENT GRADE. IN AREAS WHERE ADDITIONAL MATERIAL IS NEEDED TO BRING THE EXISTING PROFILE AND CROSS SLOPE TO THE PROPOSED GRADE, THE CONTRACTOR SHALL UTILIZE AN HMA SHIM LAYER. IN AREAS WHERE THE CORRECTIONS REQUIRED ARE IN EXCESS OF 1 1/2", THE CONTRACTOR SHALL UTILIZE A 12.5MM HMA. INDIVIDUAL LIFT THICKNESSES SHALL NOT EXCEED 2 1/2". ALL HMA PLACED AS A SHIM LAYER SHALL BE PAID UNDER ITEM 403.211.



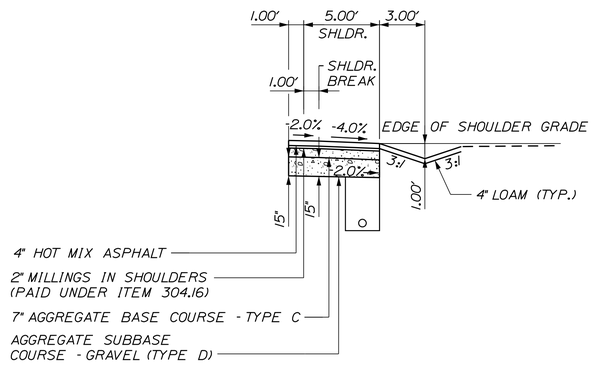
VERTICAL CURB TYPE 1 DETAIL



AGGREGATE BASE COURSE - TYPE C		
LEFT SHOULDER 10.80 CY/100 LF	N/A	RIGHT SHOULDER 15.75 CY/100 LF
AGGREGATE SUBBASE COURSE - GRAVEL		
LEFT SHOULDER 51.52 CY/100 LF	11' TRAVEL LANES VARIES CY/100 LF	RIGHT SHOULDER VARIES CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION
36+55 TO 38+50, LT	20+54 TO 25+50	36+00 TO 38+00, RT
	40+50 TO 45+50	71+50 TO 72+50, RT
	69+00 TO 72+00	
	87+32 TO 89+68	

PAVEMENT REHABILITATION

SUPERELEVATED



AGGREGATE BASE COURSE - TYPE C
SHOULDER 10.80 CY/100 LF
AGGREGATE SUBBASE COURSE - GRAVEL
SHOULDER 22.56 CY/100 LF
STATION TO STATION
17+60 TO 19+50, RT
43+50 TO 47+00, RT
56+50 TO 57+00, RT
62+13 TO 64+64, RT
74+91 TO 86+50, RT
90+63 TO 91+70, RT

BOX SECTION

NORMAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

TYPICAL SECTIONS

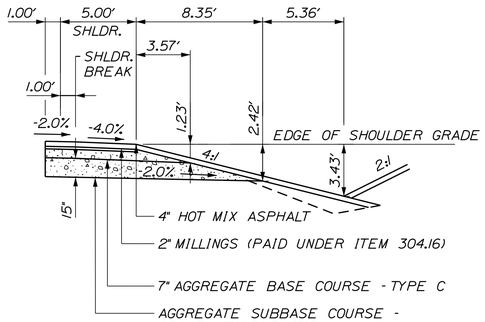
SHEET NUMBER

2

OF 213

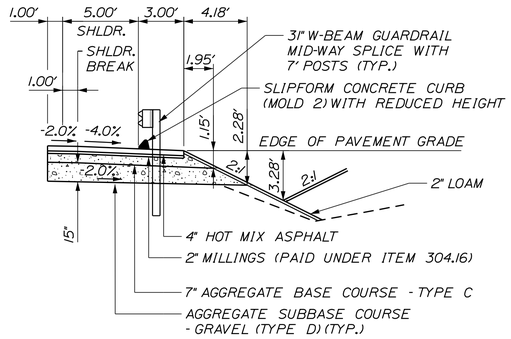
TYLIN INTERNATIONAL

Filename: ...\MSTA\002_TypicalSections_01.dgn Username: Division: HIGHWAY Date:3/7/2019



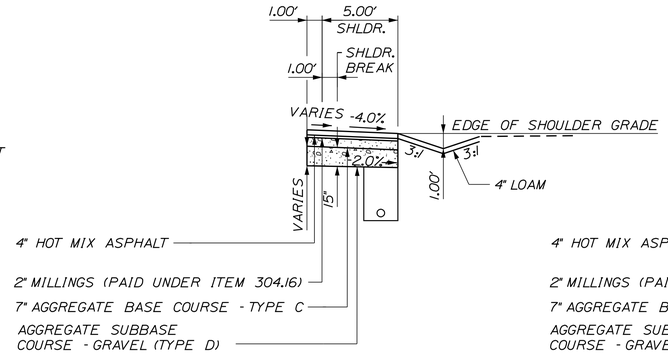
AGGREGATE BASE COURSE - TYPE C
SHOULDER 15.76 CY/100 LF
AGGREGATE SUBBASE COURSE - GRAVEL
SHOULDER 47.28 CY/100 LF
STATION TO STATION
48+00 TO 48+50, RT
46+64 TO 56+00, RT
66+50 TO 67+28, RT
93+37 TO 107+81, RT

DITCH SECTION
NORMAL



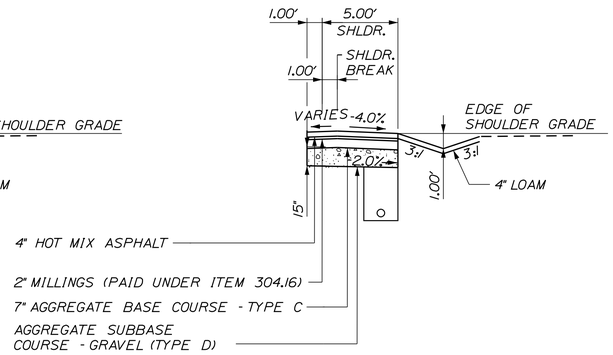
AGGREGATE BASE COURSE - TYPE C
SHOULDER 20.52 CY/100 LF
AGGREGATE SUBBASE COURSE - GRAVEL
SHOULDER 47.51 CY/100 LF
STATION TO STATION
30+22 TO 32+00, RT

GUARDRAIL SECTION
NORMAL



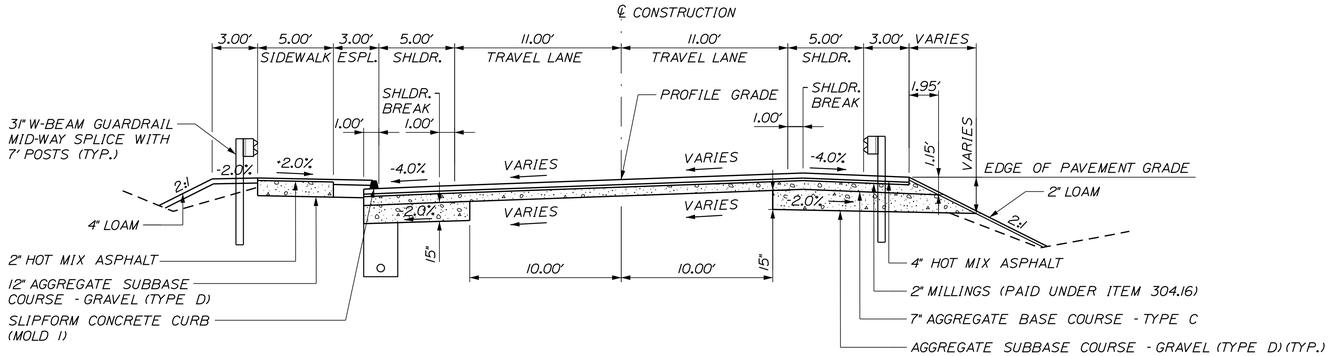
AGGREGATE BASE COURSE - TYPE C
SHOULDER VARIES
AGGREGATE SUBBASE COURSE - GRAVEL
SHOULDER VARIES CY/100 LF
STATION TO STATION
21+36 TO 29+50, RT
40+50 TO 43+50, RT
88+25 TO 89+75, RT

BOX SECTION
SUPERELEVATED - LOW SIDE



AGGREGATE BASE COURSE - TYPE C
SHOULDER VARIES
AGGREGATE SUBBASE COURSE - GRAVEL
SHOULDER VARIES CY/100 LF
STATION TO STATION
38+50 TO 40+00, RT
68+61 TO 69+88, RT

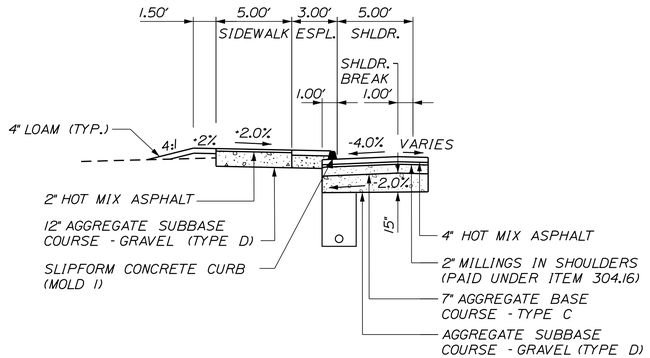
BOX SECTION
SUPERELEVATED - HIGH SIDE



AGGREGATE BASE COURSE - TYPE C		
LEFT SHOULDER 12.96 CY/100 LF	TRAVEL LANES 47.48 CY/100 LF	RIGHT SHOULDER 20.52 CY/100 LF
AGGREGATE SUBBASE COURSE - GRAVEL		
LEFT SHOULDER VARIES CY/100 LF	11' TRAVEL LANES VARIES CY/100 LF	RIGHT SHOULDER VARIES CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION
32+67 TO 34+00, LT *	25+50 TO 40+50	33+00 TO 33+59, RT
34+00 TO 53+67, LT		

* USE VERTICAL CURB TYPE I - SEE VERTICAL CURB TYPE I DETAIL

RECONSTRUCTION
SUPERELEVATED



AGGREGATE BASE COURSE - TYPE C
SHOULDER 12.96 CY/100 LF
AGGREGATE SUBBASE COURSE - GRAVEL
SHOULDER VARIES CY/100 LF
STATION TO STATION
19+00 TO 32+24, LT *
38+75 TO 47+50, LT
85+50 TO 91+50, LT

* USE VERTICAL CURB TYPE I - SEE VERTICAL CURB TYPE I DETAIL

SIDEWALK SECTION
SUPERELEVATED - HIGH SIDE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

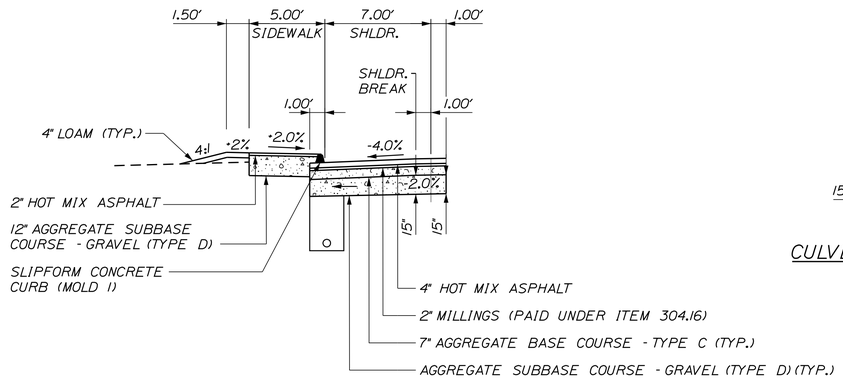
HAMPDEN
US ROUTE 1A

TYPICAL SECTIONS

SHEET NUMBER
3
OF 213

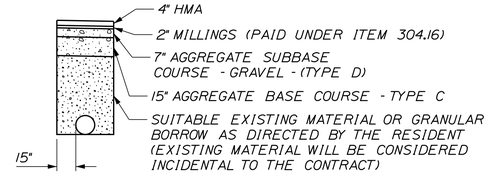
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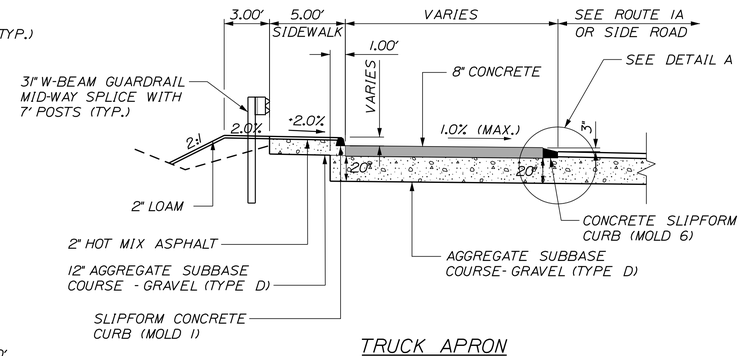


AGGREGATE BASE COURSE - TYPE C
SHOULDER 17.28 CY/100 LF
AGGREGATE SUBBASE COURSE - GRAVEL
SHOULDER 55.60 CY/100 LF
STATION TO STATION
106+36 TO 108+25, LT

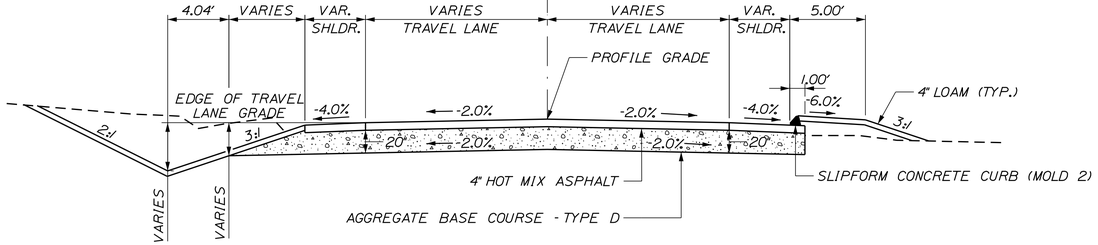
WIDENED SHOULDER SECTION
NORMAL



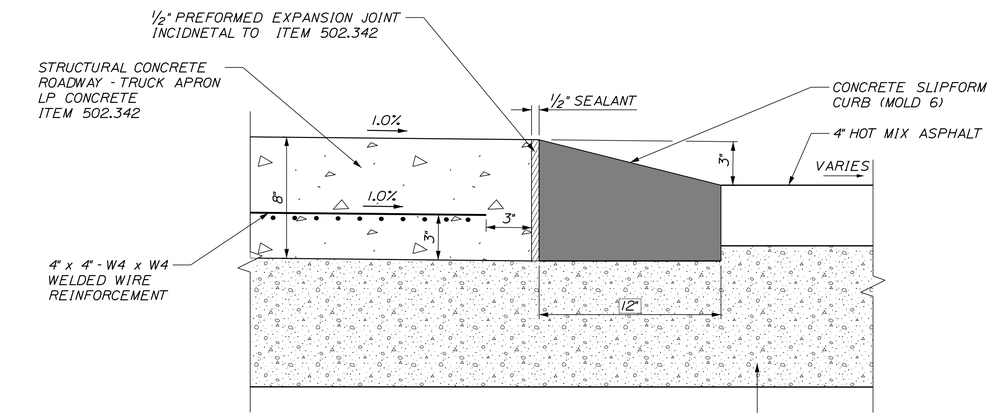
CULVERT TRENCH DETAIL



TRUCK APRON



SIDE ROAD
RECONSTRUCTION



NOTE: ALL LP CONCRETE TO BE A WEARING SURFACE SHALL BE FINISHED AND COATED PER SPECIAL PROVISION 502 STRUCTURAL CONCRETE - ROADWAY TRUCK APRON

DETAIL A

SUPERELEVATION TABLES

U.S. ROUTE 1A

LT SHOULDER	LT TRAVEL LANE	STATION	RT. TRAVEL LANE	RT. SHOULDER
		BEGIN		
EXISTING	EXISTING	16+70	EXISTING	EXISTING
-4.0%	-3.0%	16+75	-4.5%	-1.2%
-4.0%	-2.0%	17+00	-3.2%	-2.1%
-4.0%	-2.0%	17+25	-2.0%	-3.1%
-4.0%	-2.0%	17+50	-2.0%	-4.0%
-4.0%	-2.0%	18+00	-2.0%	-4.0%
-4.0%	-2.0%	18+50	-2.0%	-4.0%
-4.0%	-2.0%	19+00	-2.0%	-4.0%
-4.0%	-0.7%	19+50	-2.0%	-4.0%
-4.0%	0.6%	20+00	-2.0%	-4.0%
-4.0%	1.9%	20+50	-2.0%	-4.0%
-4.0%	2.0%	20+53.85	-2.0%	-4.0%
-4.0%	3.2%	21+00	-3.2%	-4.0%
		TO		
-4.0%	3.2%	24+25	-3.2%	-4.0%
-4.0%	2.6%	24+50	-2.6%	-4.0%
-4.0%	2.0%	24+75	-2.0%	-4.0%
		TO		
-4.0%	2.0%	26+75	-2.0%	-4.0%
-4.0%	2.1%	27+00	-2.1%	-4.0%
-4.0%	2.2%	27+25	-2.2%	-4.0%
		TO		
-4.0%	2.2%	31+68	-2.2%	-4.0%
-4.0%	2.2%	32+00	-2.2%	-2.7%
-4.0%	0.3%	32+50	-0.3%	-0.7%
-4.0%	-1.7%	33+00	1.7%	1.3%
-4.0%	-3.6%	33+50	3.6%	3.3%
-3.8%	-3.6%	33+58	3.6%	3.6%
-3.6%	-3.6%	33+66	3.6%	3.6%
		TO		
-3.6%	-3.6%	34+39	3.6%	3.6%
-4.0%	-3.6%	34+50	3.6%	3.2%
-4.0%	-3.6%	34+67	3.6%	2.5%
-4.0%	-3.6%	34+75	3.6%	2.2%
-4.0%	-3.6%	35+00	3.6%	1.2%
-4.0%	-3.6%	35+50	3.6%	-0.8%
-4.0%	-3.6%	36+00	3.6%	-2.8%
-4.0%	-3.6%	36+29	3.6%	-4.0%
		TO		
-4.0%	-3.6%	38+50	3.6%	-4.0%
-4.0%	-2.5%	39+00	2.5%	-4.0%
-4.0%	-1.5%	39+50	1.5%	-4.0%
-4.0%	-0.4%	40+00	0.4%	-4.0%
-4.0%	0.7%	40+50	-0.7%	-4.0%
-4.0%	1.7%	41+00	-1.7%	-4.0%
-4.0%	2.8%	41+50	-2.8%	-4.0%
		TO		
-4.0%	2.8%	43+00	-2.8%	-4.0%
-4.0%	2.0%	43+50	-2.0%	-4.0%
		TO		
-4.0%	2.0%	45+50	-2.0%	-4.0%
-4.0%	1.0%	46+00	-2.0%	-4.0%
-4.0%	0.0%	46+50	-2.0%	-4.0%
-4.0%	-1.0%	47+00	-2.0%	-4.0%
-4.0%	-2.0%	47+50	-2.0%	-4.0%
		TO		
-4.0%	-2.0%	67+00	-2.0%	-4.0%
-4.0%	-2.0%	67+50	-1.0%	-4.0%
-4.0%	-2.0%	68+00	0.0%	-4.0%
-4.0%	-2.0%	68+50	1.0%	-4.0%
-4.0%	-2.0%	69+00	2.0%	-4.0%
		TO		
-4.0%	-2.0%	72+00	2.0%	-4.0%
-4.0%	-2.0%	72+50	0.7%	-4.0%
-4.0%	-2.0%	73+00	-0.7%	-4.0%
-4.0%	-2.0%	73+50	-2.0%	-4.0%
		TO		
-4.0%	-2.0%	85+50	-2.0%	-4.0%
-4.0%	-0.9%	86+00	-2.0%	-4.0%
-4.0%	0.2%	86+50	-2.0%	-4.0%
-4.0%	1.3%	87+00	-2.0%	-4.0%
-4.0%	2.0%	87+31.82	-2.0%	-4.0%
-4.0%	2.4%	87+50	-2.4%	-4.0%
		TO		
-4.0%	2.4%	89+50	-2.4%	-4.0%
-4.0%	2.0%	89+68.18	-2.0%	-4.0%
-4.0%	1.3%	90+00	-2.0%	-4.0%
-4.0%	0.2%	90+50	-2.0%	-4.0%
-4.0%	-0.9%	91+00	-2.0%	-4.0%
-4.0%	-2.0%	91+50	-2.0%	-4.0%
		TO		
-4.0%	-2.0%	108+25	-2.0%	-4.0%
EXISTING	EXISTING	108+35.68	EXISTING	EXISTING

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	SRD	2/19
CHECKED-REVIEWED	SRD	2/19
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HAMPDEN
US ROUTE 1A

TYPICAL SECTIONS

SHEET NUMBER
4
OF 213

TYLIN INTERNATIONAL

Filename: ...\MSTA\004_TypicaL_03.dgn Division: HIGHWAY Username: Date:3/11/2019

Filename: ...\MSTA\005xx_Estimate.dgn Division: HIGHWAY Username: Date:3/7/2019

ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY				
			WIN 11577.00 HIGHWAY	WIN 021692.00 BRIDGE	TOWN OF HAMPDEN SEWER	HAMPDEN WATER DISTRICT	TOTAL
201.11	CLEARING	AC	2				2
201.23	REMOVING SINGLE TREE TOP ONLY	EA	70				70
201.24	REMOVING STUMP	EA	59				59
202.19	REMOVING EXISTING BRIDGE - GRIST MILL BRIDGE (2400 CY)	LS		1			1
202.202	REMOVING PAVEMENT SURFACE	SY	17,100				17,100
203.20	COMMON EXCAVATION	CY	18,800				18,800
203.21	ROCK EXCAVATION	CY	50				50
203.25	GRANULAR BORROW	CY	100	1,200			1,300
206.061	STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES BELOW GRADE	CY	50				50
206.07	STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES	CY	310				310
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES, PLAN QUANTITY	CY		2,475			2,475
206.092	STRUCTURAL ROCK EXCAVATION - MAJOR STRUCTURES	CY		230			230
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	CY	14,000		325	150	14,475
304.16	AGGREGATE BASE COURSE - TYPE C	CY	4,600		155	75	4,830
311.36	FULL DEPTH CONCRETE RUBBLIZATION	SY	17,100				17,100
403.2081	HOT MIX ASPHALT - 12.5MM NOMINAL MAX. SIZE (POLYMER MODIFIED)	TON	2,975	23	45	5	3,048
403.209	HOT MIX ASPHALT, 9.5 MM NOMINAL MAX. SIZE (DRIVES, SIDEWALKS, AND INCIDENTALS)	TON	1,100				1,100
403.211	HOT MIX ASPHALT, SHIM	TON	50				50
403.213	HOT MIX ASPHALT, 12.5MM NOMINAL MAX. SIZE (BASE AND INTERMEDIATE COURSE)	TON	5,050	23	90	0	5,163
409.15	BITUMINOUS TACK COAT, APPLIED	G	1,600	17			1,617
502.219	STRUCTURAL CONCRETE ABUTMENT AND RETAINING WALLS (470 CY)	LS		1			1
502.26	STRUCTURAL CONCRETE ROADWAY AND SIDEWALK SLAB ON STEEL BRIDGES (120 CY)	LS		1			1
502.31	STRUCTURAL CONCRETE APPROACH SLABS (24 CY)	LS		1			1
502.342	STRUCTURAL CONCRETE ROADWAY TRUCK APRON	CY	14				14
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (27 CY)	LS		1			1
502.565	CONCRETE FILL	CY		830			830
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	LB		43,800			43,800
503.13	REINFORCING STEEL, PLACING	LB		43,800			43,800
503.26	STAINLESS STEEL REINFORCEMENT, FABRICATED AND DELIVERED	LB		31,400			31,400
503.27	STAINLESS STEEL REINFORCEMENT, PLACING	LB		31,400			31,400
507.0821	STEEL BRIDGE RAILING, 3 BAR (67 LF)	LS		1			1
507.0831	STEEL BRIDGE RAILING, 4 BAR (67 LF)	LS		1			1
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (300 SY)	LS		1			1
509.743	COMPOSITE TUB GIRDER - FABRICATION	LS		1			1
509.744	COMPOSITE TUB GIRDER - ERECTION	LS		1			1
511.07	COFFERDAM - ABUTMENT 1	LS		1			1
511.07	COFFERDAM - ABUTMENT 2	LS		1			1
512.081	FRENCH DRAINS (220 LF)	LS		1			1
514.06	CURING BOX FOR CONCRETE CYLINDERS	EA		1			1
515.21	PROTECTIVE COATING FOR CONCRETE STRUCTURES (200 SY)	LS		1			1
520.232	EXPANSION DEVICE - ASPHALTIC PLUG JOINT	LF		67			67
523.52	BEARING INSTALLATION	EA		10			10
523.5401	LAMINATED ELASTOMERIC BEARINGS, FIXED	EA		5			5
523.5402	LAMINATED ELASTOMERIC BEARINGS, EXPANSION	EA		5			5
526.301	TEMPORARY CONCRETE BARRIER - TYPE 1 (100 LF)	LS		1			1
526.34	PERMANENT CONCRETE TRANSITION BARRIER	EA		4			4
527.34	WORK ZONE CRASH CUSHIONS	UN		1			1
602.30	FLOWABLE CONCRETE FILL	CY	13				13
603.159	12" CULVERT PIPE OPTION III	LF	415				415
603.169	15" CULVERT PIPE OPTION III	LF	360				360
603.175	18" RCP CLASS III	LF	390				390
603.179	18" CULVERT PIPE OPTION III	LF	220				220
603.195	24" RCP CLASS III	LF	45				45
603.199	24" CULVERT PIPE OPTION III	LF	155				155
603.55	CONCRETE PIPE TIES	GP	22				22

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	BLT	SRD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

ESTIMATED QUANTITIES

T·Y·LIN INTERNATIONAL

SHEET NUMBER

5

OF 213

ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY				
			WIN 11577.00 HIGHWAY	WIN 021692.00 BRIDGE	TOWN OF HAMPDEN SEWER	HAMPDEN WATER DISTRICT	TOTAL
604.072	CATCH BASIN TYPE A1-C	EA	7				7
604.09	CATCH BASIN TYPE B1	EA	5				5
604.092	CATCH BASIN TYPE B1-C	EA	29				29
604.096	60" CATCH BASIN TYPE B1-C	EA	5				5
604.097	72" CATCH BASIN TYPE B1-C	EA	3				3
604.11	CATCH BASIN TYPE C1	EA	2				2
604.161	ALTERING CATCH BASIN	EA	2				2
604.2402	BEHIND CURB CATCH BASIN	EA	4				4
604.242	CATCH BASIN TYPE F3	EA	6				6
604.244	CATCH BASIN TYPE F4	EA	20				20
604.246	CATCH BASIN TYPE F5	EA	1				1
604.247	CATCH BASIN TYPE F5-C	EA	11				11
604.248	CATCH BASIN TYPE F6	EA	2				2
604.249	CATCH BASIN TYPE F6-C	EA	1				1
605.09	6" UNDERDRAIN TYPE B	LF	7,350				7,350
605.10	6" UNDERDRAIN OUTLET	LF	160				160
605.11	12" UNDERDRAIN TYPE C	LF	3,000				3,000
605.12	15" UNDERDRAIN TYPE C	LF	1,800				1,800
605.13	18" UNDERDRAIN TYPE C	LF	1,800				1,800
605.15	24" UNDERDRAIN TYPE C	LF	700				700
606.1301	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)	LF	495				495
606.1303	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, 15' RADIUS AND LESS)	LF	25				25
606.1304	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, OVER 15' RADIUS)	LF	107				107
606.1305	31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL (31" HEIGHT)	EA	1				1
606.1307	BRIDGE TRANSITION (ASYMMETRICAL - TYPE I)	EA	4				4
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	EA	3				3
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	EA	8				8
606.356	UNDERDRAIN DELINEATOR POST	EA	3				3
606.47	SINGLE WOOD POST	EA	67				67
606.51	MULTIPLE MAILBOX SUPPORT	EA	6				6
608.26	CURB RAMP DETECTABLE WARNING FIELD	SF	205				205
609.11	VERTICAL CURB TYPE 1	LF	1,400				1,400
609.12	VERTICAL CURB TYPE 1 - CIRCULAR	LF	30				30
609.21	CONCRETE SLIPFORM CURB	LF	6,510				6,510
609.214	CONCRETE SLIPFORM CURB - 4' TERMINAL END	EA	110				110
609.218	CONCRETE SLIPFORM CURB - 8' TERMINAL END	EA	5				5
609.234	TERMINAL CURB TYPE 1 - 4 FOOT	EA	28				28
609.2341	TERMINAL CURB TYPE 1 - 4 FOOT - CIRCULAR	EA	4				4
610.08	PLAIN RIPRAP	CY	87	710			797
610.16	HEAVY RIPRAP	CY		840			840
610.18	STONE DITCH PROTECTION	CY	360				360
613.319	EROSION CONTROL BLANKET	SY	3,100	90			3,190
615.07	LOAM	CY	2,010				2,010
618.13	SEEDING METHOD NUMBER 1	UNIT	140				140
618.14	SEEDING METHOD NUMBER 2	UNIT	54				54
619.12	MULCH	UNIT	220				220
620.58	EROSION CONTROL GEOTEXTILE	SY	1,900	1,900			3,800
626.11	PRECAST CONCRETE JUNCTION BOX	EA			3		3
626.221	NON-METALLIC CONDUIT, CONCRETE ENCASED	LF			600		600
627.733	4" WHITE OR YELLOW PAVEMENT MARKING LINE	LF	27,000				27,000
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING	SF	2,000				2,000
627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LF	54,000				54,000
629.05	HAND LABOR - STRAIGHT TIME	HR	260				260
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	HR	10				10
631.11	AIR TOOL (INCLUDING OPERATOR)	HR	10				10
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR	60				60
631.172	TRUCK, LARGE (INCLUDING OPERATOR)	HR	100				100
631.2	STUMP CHIPPER RENTAL (INCLUDING OPERATOR)	HR	15				15
631.22	FRONT END LOADER (INCLUDING OPERATOR)	HR	20				20
631.32	CULVERT CLEANER (INC. OPERATOR)	HR	10				10

Filename: ...\MSTA\005xx_Estimate.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	BLT	SRD	2/19
DESIGN2-DETAILED2			
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REVISIONS 1			
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REVISIONS 4			
FIELD CHANGES			

SIGNATURE

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HAMPDEN
US ROUTE 1A

ESTIMATED QUANTITIES

SHEET NUMBER

6

OF 213

TYLIN INTERNATIONAL

ESTIMATED QUANTITIES

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY				
			WIN 11577.00 HIGHWAY	WIN 021692.00 BRIDGE	TOWN OF HAMPDEN SEWER	HAMPDEN WATER DISTRICT	TOTAL
639.18	FIELD OFFICE TYPE A	EA	1				1
645.292	REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS TYPE II	SF	69				69
652.312	TYPE III BARRICADES	EA		6			6
652.33	DRUM	EA	150				150
652.34	CONE	EA	150				150
652.35	CONSTRUCTION SIGNS	SF	1,150				1,150
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	CD	450		44	7	501
652.38	FLAGGERS	HR	24,000		2,600	600	27,200
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LS	1				1
658.20	ACRYLIC LATEX COLOR FINISH	SY	37				37
659.10	MOBILIZATION	LS	1				1
801.03	TEST PITS	EA			3	1	4
801.071	TEMPORARY SEWER BYPASS	LS			1		1
801.141	4" PVC SANITARY SEWER (SDR-35)	LF	10		420		430
801.16	6" PVC SANITARY SEWER (SDR-35)	LF	10				10
801.17	8" PVC SANITARY SEWER (SDR-35)	LF			2,100		2,100
801.18	12" PVC SANITARY SEWER (SDR-35)	LF			410		410
802.102	12" FORCE MAIN	LF			50		50
803.17	4' DIAMETER PRECAST SEWER MANHOLE	EA			13		13
803.172	5' DIAMETER PRECAST SEWER MANHOLE	EA			2		2
803.18	STANDARD SEWER FRAME & COVER	EA			15		15
803.181	REMOVE / ABANDON MANHOLE	EA			14		14
812.162	ADJUSTING SEWER MANHOLE TO GRADE	EA			30		30
822.34	8" CLASS 52 DUCTILE IRON PIPE	LF			400		400
822.3402	8" CLASS 52 CLDI WATERMAIN	LF				180	180
822.36	12" CLASS 52 DUCTILE IRON PIPE	LF			45		45
822.3612	12" DUCTILE IRON WATERMAIN	LF				110	110
823.311	12" GATE VALVE WITH BOX	EA				2	2
823.3251	8" GATE VALVE WITH BOX	EA				1	1
823.3254	8" INSERTION VALVE	EA				1	1
823.332	GATE VALVE BOX, ADJUST TO GRADE	EA				32	32
824.30	FIRE HYDRANT	EA				1	1
824.31	REMOVE FIRE HYDRANT	EA				1	1
825.311	3/4" CORPORATION	EA				2	2
825.312	3/4" CURB STOP AND BOX	EA				2	2
825.322	2" CURB STOP	EA				2	2
825.41	3/4" COPPER SERVICE	LF				150	150
825.42	2" COPPER SERVICE	LF				40	40
825.541	TEMPORARY WATER MAIN	LF				300	300
827.30	ROCK EXCAVATION REMOVE AND REFILL	CY			75	25	100
827.302	UNSUITABLE SOIL EXCAVATION - BELOW GRADE	CY			75	25	100
827.312	SELECT BACKFILL	CY			75	25	100
827.33	TRENCH INSULATION	LF			200	50	250
830.10	WATER MAIN BRIDGE CROSSING	LS				1	1
830.13	SEWER MAIN BRIDGE CROSSING	LS			1		1
832.07	OWNER'S TESTING ALLOWANCE	LS			1	1	2

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	15,669	
EARTH FROM DRIVES, OLD ROAD, ETC.	2,431	
GRUBBING IN FILL	685	
PAVEMENT SALVAGE IN FILL (CARVER ROAD ONLY)	11	
TOTAL COMMON EXCAVATION (for estimate)		18,796

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	4,000	
COMMON FILL (FROM BRIDGE)	0	
FILL FOR DRIVES	32	
GRUBBING IN FILL	685	
PAVEMENT SALVAGE IN FILL (CARVER ROAD ONLY)	11	
TOTAL FILL		4,728

ROCK EXCAVATION FOR ESTIMATE

ROCK EXCAVATION (FROM CROSS SECTIONS)	0	
ROCK EXCAVATION (FROM BRIDGE)	0	
TOTAL ROCK EXCAVATION		0

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		18,796
DEDUCTIONS:		
GRUBBING IN CUT	1,741	
GRUBBING IN FILL	685	
PAVEMENT SALVAGE (CUT & FILL)	1,557	
(2) TOTAL DEDUCTIONS		3,983
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		14,813
TOTAL AVAILABLE STRUCT. EXCAVATIONS (UNDERDRAIN ONLY)		3,331
TOTAL AVAILABLE STRUCT. EXCAVATIONS (BRIDGE)		2,475
RIPRAP EXCAVATION (1/2 USABLE)		36
TOTAL AVAILABLE NON-ROCK EXCAVATION		20,655

COMPUTATION OF WASTE STORAGE & WASTE MATERIAL

TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS)		0
GRUBBING IN CUT	1,741	
GRUBBING IN FILL	685	
RIPRAP EXCAVATION (1/2 WASTE)	36	
UNDERCUT	0	
MUCK EXCAVATION	0	
TOTAL WASTE MATERIAL TO BE UTILIZED (LOWER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL)		0
TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED)		2,462

COMPUTATION OF GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW TO REPLACE MUCK	0	
GRANULAR BORROW IN LOW WET AREAS	0	
GRANULAR BORROW TO MAINTAIN TRAFFIC	0	
GRANULAR BORROW FOR BRIDGE	1,200	
GRANULAR BORROW FOR UNDERCUTTING	0	
GRANULAR BORROW =	1,200 x 1.00 =	1,200

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3)TOTAL FILL				4,728
TOTAL AVAIL. NON-ROCK EXCAV.	20,655	x 0.90 =	18,590	
TOTAL AVAIL. ROCK EXCAV.	0	x 1.30 =	0	
TOTAL AVAIL. STR. ROCK EXCAV.	540	x 1.30 =	702	
TOTAL WASTE MATERIAL TO BE UTILIZED	0	x 1.10 =	0	
(4)TOTAL AVAILABLE EXCAVATION				19,292
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION				-14,564

IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED 17,025

T.Y.LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

	BY	DATE
DESIGNED	TSK	2/19
DETAILED	SRD	2/19
CHECKED	BLT	
QUALITY CONTROL		
PROJ. MANAGER	R. MOULTON	

DESIGN-DETAILED	
CHECKED-REVIEWED	
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

P.E. NUMBER

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HAMPDEN
US ROUTE 1A

ESTIMATED QUANTITIES

SHEET NUMBER

7

OF 213

Filename: ...\MSTA\005xx_Estimate.dgn Division: HIGHWAY Username: Date:3/7/2019

STATION	CULVERT PIPE												CATCH BASIN										PIPE ARCH				UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III																			TYPE B		TYPE C					
								SMOOTHLINED		CORRUGATED												BEHIND CURB CB			GAGE OR WALL THICKNESS	TYPE B	OUTLET	SMOOTHLINED		CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C	B1	C1	F3	F4	F5	F6	F5-C	F6-C		SPAN	RISE	LENGTH		LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
CULVERTS																																		
STA 31+90.35, 16.88' RT TO STA 31+90.27, 32.87' RT	18"	16.0'	III																															
STA 56+03.00, 11.88' LT TO STA 56+03.00, 32.13' RT	24"	44.0'	III																															
STA 73+48.81, 12.89' LT TO STA 73+53.40, 34.97' RT	18"	48.0'	III																															
STA 80+50.00, 12.88' LT TO STA 80+50.00, 18.00' RT	18"	30.9'	III																															
STA 81+09.00, 12.88' LT TO STA 81+09.54, 18.00' RT	18"	30.9'	III																															
STA 87+41.25, 33.44' RT TO STA 87+53.50, 12.94' LT	18"	48.0'	III																															
STA 98+59.25, 15.17' LT TO STA 98+59.25, 44.64' RT	18"	60.0'	III																															
STA 131+10.08, 31.30' RT TO STA 131+31.18, 20.57' LT	18"	56.0'	III																															
STA 231+35.00, 23.45' LT TO STA 231+35.00, 24.54' RT	18"	48.0'	III																															
STA 231+38.00, 23.45' LT TO STA 231+38.00, 24.54' RT	18"	48.0'	III																															
STA 22+53.85, 15.61' LT TO STA 22+74.22, 24.19' LT								12"	22.6	12"	22.6																							
STA 22+74.87, 42.96' LT TO STA 22+75.87, 27.00' LT								12"	16.0'	12"	16.0'																							
STA 31+90.35, 12.88' LT TO STA 31+90.35, 12.88' RT								18"	25.8'	18"	25.8'																							
STA 38+25.00, 16.88' LT TO STA 38+25.00, 28.50' LT								12"	11.6'	12"	11.6'																							
STA 41+70.75, 16.88' LT TO STA 41+70.75, 29.25' LT								12"	12.4'	12"	12.4'																							
STA 46+00.83, 17.23' LT TO STA 46+06.33, 32.62' LT								15"	16.3'	15"	16.3'																							
STA 47+60.00, 16.88' LT TO STA 47+60.00, 32.00' LT								12"	15.1'	12"	15.1'																							
STA 48+50.00, 16.88' LT TO STA 48.50.00, 32.00' LT								12"	15.1'	12"	15.1'																							
STA 50+50.00, 16.88' LT TO STA 50+50.00, 36.25' LT								12"	19.4'	12"	19.4'																							
STA 51+80.00, 16.88' LT TO STA 51+80.00, 31.00' LT								12"	14.1'	12"	14.1'																							
STA 53+30.00, 16.88' LT TO STA 53+30.00, 30.50' LT								12"	13.6'	12"	13.6'																							
STA 54+65.94, 17.20' LT TO STA 54+74.62, 38.57' LT								12"	23.1'	12"	23.1'																							
STA 54+65.00, 12.88' LT TO STA 54+65.00, 35.10' RT								18"	48.0'																									
STA 56+04.16, 17.65' LT TO STA 56+20.04, 41.56' LT								12"	28.7'	12"	28.7'																							
STA 57+00.00, 17.38' LT TO STA 57+00.00, 31.25' LT								12"	13.9'	12"	13.9'																							
STA 58+19.00, 17.38' LT TO STA 58+19.00, 27.50' LT								12"	10.1'	12"	10.1'																							
STA 60+50.00, 16.88' LT TO STA 60+50.00, 29.75' LT								12"	12.9'	12"	12.9'																							
STA 61+75.00, 16.88' LT TO STA 61+75.95, 35.00' LT								12"	18.1'	12"	18.1'																							
STA 64+53.00, 16.88' LT TO STA 64+53.00, 31.50' LT								12"	14.6'	12"	14.6'																							
STA 65+54.59, 33.69' LT TO STA 65+66.37, 17.40' LT								15"	20.0'	15"	20.0'																							
STA 66+26.50, 16.87' LT TO STA 66+26.50, 30.50' LT								12"	13.6'	12"	13.6'																							
STA 68+81.14, 16.03' LT TO STA 69+22.52, 44.82' LT								15"	50.1'	15"	50.1'																							
STA 69+26.11, 45.33' LT TO STA 69+63.54, 32.83' LT								15"	39.1'	15"	39.1'																							
STA 72+52.00, 15.88' LT TO STA 72+52.00, 30.75' LT								12"	14.9'	12"	14.9'																							
STA 73+47.00, 32.20' LT TO STA 73+48.43, 16.88' LT								12"	15.4'	12"	15.4'																							
STA 79+09.00, 16.88' LT TO STA 79+09.00, 32.00' LT								12"	15.1'	12"	15.1'																							
STA 80+50.00, 16.88' LT TO STA 80+50.00, 32.00' LT								12"	15.1'	12"	15.1'																							
STA 81+09.00, 16.88' LT TO STA 81+09.00, 35.00' LT								12"	18.2'	12"	18.2'																							
STA 82+61.89, 17.20' LT TO STA 82+77.31, 33.50' LT								15"	22.4'	15"	22.4'																							
STA 83+28.57, 31.67' LT TO STA 83+38.60, 16.95' LT								12"	17.8'	12"	17.8'																							
STA 84+50.00, 16.88' LT TO STA 84+50.00, 27.00' LT								12"	10.1'	12"	10.1'																							
STA 87+55.86, 15.58' LT TO STA 87+90.08, 28.88' LT								15"	37.0'	15"	37.0'																							
STA 90+00.00, 15.88' LT TO STA 90+00.00, 28.25' LT								12"	12.4'	12"	12.4'																							
STA 91+96.00, 15.17' LT TO STA 91+96.00, 44.83' RT								18"	60.0'																									
STA 91+96.00, 19.17' LT TO STA 91+96.00, 36.75' LT								18"	17.6'	18"	17.6'																							
STA 98+55.75, 38.90' LT TO STA 98+58.88, 19.13' LT								15"	20.0'	15"	20.0'																							
STA 102+75.92, 15.17' LT TO STA 102+75.92, 44.83' RT								18"	60.0'																									
STA 102+76.10, 19.16' LT TO STA 102+77.41, 33.30' LT								15"	14.2'	15"	14.2'																							
STA 105+50.00, 15.88' LT TO STA 105+50.00, 30.50' LT								12"	14.6'																									
STA 140+10.70, 63.17' RT TO STA 140+26.53, 46.22' RT								24"	23.2'	24"	23.2'																							
STA 140+28.31, 42.80' RT TO STA 140+54.37, 82.31' LT								24"	128.0'	24"	128.0'																							
DRIVE CULVERTS																																		
STA 36+10.88, 29.79' RT TO STA 36+50.00, 29.79' RT						15"	40.0'																											
STA 37+01.23, 29.77' RT TO STA 37+56.00, 29.80' RT						15"	56.0'																											
STA 230+92.68, 19.71' LT TO STA 231+32.42, 24.21' LT						15"	40.0'																											

NOTE:
WHERE 4 FT SECTIONS OF RCP ARE NECESSARY, THEY SHALL BE CAST SECTIONS PLACED IN THE MIDDLE THIRD OF THE PIPE.

T·Y·LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	DEB	10/16	
CHECKED-REVIEWED	SRD	2/19	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			1
REVISIONS 2			2
REVISIONS 3			3
REVISIONS 4			4
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

DRAINAGE SUMMARY SHEET

SHEET NUMBER

8

OF 213

Date:3/7/2019

Username:

Division: HIGHWAY

Filename: ...\MSTA\006_Drainage_ 01.dgn

STATION	CULVERT PIPE												CATCH BASIN										PIPE ARCH				UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III																			TYPE B		TYPE C					
								SMOOTHLINED		CORRUGATED												BEHIND CURB CB			GAGE OR WALL THICKNESS	TYPE B	OUTLET	SMOOTHLINED		CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C	B1	C1	F3	F4	F5	F6	F5-C	F6-C		SPAN	RISE	LENGTH		LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
CATCH BASINS																																		
B01 - STA 16+14.00, 19.04' LT																																		ALTER CB TO AI-C
B02 - STA 17+06.00, 17.07' RT																																		ALTER CB TO AI-C
B03 - STA 19+48.00, 14.88' LT												1																						
B04 - STA 22+52.00, 14.88' LT												1																						
B05 - STA 25+93.00, 14.88' LT												1 1/8																						
B06 - STA 27+84.19, 14.88' LT												1																						
B07 - STA 31+90.35, 14.88' LT												1 1/8																						
B08 - STA 32+72.84, 14.88' LT												1																						
B09 - STA 17+05.60, 14.87' LT													1																						
B10 - STA 31+50.00, 14.88' RT													1																						
B11 - STA 31+90.35, 14.88' RT													1 1/8																						
B12 - STA 36+56.50, 14.88' LT													1 1/4																						
B13 - STA 38+25.00, 14.88' LT													1 1/8																						
B14 - STA 40+18.75, 14.88' LT													1 1/8																						
B15 - STA 41+70.75, 14.88' LT													1																						
B16 - STA 44+50.00, 14.88' LT													1 1/8																						
B17 - STA 46+00.00, 14.88' LT													1																						5' DIAMETER
B18 - STA 46+50.00, 14.88' LT													1																						
B19 - STA 47+60.00, 14.88' LT													1 1/8																						
B20 - STA 48+50.00, 14.88' LT													1 1/8																						
B21 - STA 50+50.00, 14.88' LT													1 1/8																						
B22 - STA 51+80.00, 14.88' LT													1																						
B23 - STA 53+30.00, 14.88' LT													1																						
B24 - STA 54+65.00, 14.88' LT													1																						5' DIAMETER
B25 - STA 55+51.00, 14.88' LT													1																						
B26 - STA 56+03.00, 14.88' LT													1																						FLAT TOP/6' DIAMETER
B27 - STA 57+00.00, 14.88' LT													1																						FLAT TOP/5' DIAMETER
B28 - STA 58+19.00, 14.88' LT													1																						5' DIAMETER
B29 - STA 60+50.00, 14.88' LT													1 1/8																						
B30 - STA 61+75.00, 14.88' LT													1																						
B31 - STA 64+53.00, 14.88' LT													1																						
B32 - STA 65+68.00, 14.88' LT													1																						6' DIAMETER
B33 - STA 66+26.50, 14.87' LT													1 1/8																						
B34 - STA 68+79.50, 14.87' LT													1																						
B35 - STA 73+48.62, 14.88' LT													1																						
B36 - STA 77+28.00, 14.88' LT													1																						
B37 - STA 79+09.00, 14.88' LT													1																						FLAT TOP
B38 - STA 80+50.00, 14.88' LT													1																						FLAT TOP
B39 - STA 81+09.00, 14.88' LT													1																						
B40 - STA 82+60.00, 14.88' LT													1																						FLAT TOP/6' DIAMETER
B41 - STA 83+40.00, 14.88' LT													1																						FLAT TOP/5' DIAMETER
B42 - STA 84+50.00, 14.88' LT													1																						
B43 - STA 87+54.00, 14.88' LT													1																						
B44 - STA 22+76.00, 25.00' LT														1 1/8																						SOLID COVER
B45 - STA 80+50.00, 20.00' RT														1																						SOLID COVER
B46 - STA 81+09.57, 20.00' RT														1																						SOLID COVER
B47 - STA 140+27.90, 44.76' RT														1 5/8																						
B48 - STA 46+07.00, 34.50' LT															1																						FLAT TOP
B49 - STA 91+96.00, 38.75' LT															1																						
B50 - STA 91+96.00, 17.17' LT																						1 1/2														INSTALL BEHIND CURB CB
B51 - STA 98+59.25, 17.17' LT																						1														INSTALL BEHIND CURB CB
B52 - STA 102+75.92, 17.17' LT																						1 1/2														INSTALL BEHIND CURB CB

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	DEB	DEB	10/16
CHECKED-REVIEWED	SRD	SRD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

DRAINAGE SUMMARY SHEET

SHEET NUMBER

9

OF 213

TYLIN INTERNATIONAL

Filename: ...\MSTA\007_Drainage_ 02.dgn Username: Division: HIGHWAY Date:3/7/2019

STATION

CULVERT PIPE

RCP

SIZE	LENGTH	CLASS

CMP

SIZE	LENGTH

OPTION I

SIZE	LENGTH

OPTION III

SMOOTHLINED		CORRUGATED	
SIZE	LENGTH	SIZE	LENGTH

CATCH BASIN

A1-C	B1-C	C1	F3	F4	F5	F6	F5-C	F6-C	BEHIND CURB CB

PIPE ARCH

SPAN	RISE	LENGTH	GAGE OR WALL THICKNESS

UNDERDRAIN

TYPE B

LENGTH	OUTLET

TYPE C

SMOOTHLINED		CORRUGATED	
SIZE	LENGTH	SIZE	LENGTH

ELBOWS, TEES, WYES AND INLET GRATE UNITS

DESCRIPTIONS

REMARKS

STATION	REMARKS
CATCH BASINS	
B53 - STA 54+75.00, 39.50' LT	
B54 - STA 57+00.00, 32.25' LT	
B55 - STA 61+76.00, 36.00' LT	TYPE C FRAME
B56 - STA 65+54.00, 34.50' LT	TYPE C FRAME
B57 - STA 69+64.50, 32.50' LT	
B58 - STA 81+09.00, 36.00' LT	
B59 - STA 22+85.00, 23.00' RT	
B60 - STA 38+25.00, 29.50' LT	
B61 - STA 41+70.75, 30.25' LT	
B62 - STA 47+60.00, 33.00' LT	TYPE C FRAME
B63 - STA 48+50.00, 33.00' LT	
B64 - STA 50+50.00, 37.25' LT	
B65 - STA 51+80.00, 32.00' LT	
B66 - STA 53+30.00, 31.50' LT	
B67 - STA 58+19.00, 28.50' LT	
B68 - STA 60+50.00, 30.75' LT	
B69 - STA 64+53.00, 32.50' LT	
B70 - STA 66+26.50, 31.50' LT	
B71 - STA 72+52.00, 31.75' LT	
B72 - STA 73+46.90, 33.19' LT	
B73 - STA 79+09.00, 33.00' LT	
B74 - STA 80+50.00, 33.00' LT	
B75 - STA 82+78.00, 34.22' LT	TYPE C FRAME
B76 - STA 83+28.00, 32.50' LT	
B77 - STA 84+50.00, 28.00' LT	
B78 - STA 90+00.00, 29.25' LT	
B79 - STA 87+91.00, 29.25' LT	TYPE C FRAME
B80 - STA 102+77.50, 34.30' LT	TYPE C FRAME
B81 - STA 105+50.00, 31.50' LT	TYPE C FRAME
B82 - STA 71+90.00, 14.87' LT	
B83 - STA 72+52.00, 14.88' LT	
B84 - STA 90+00.00, 14.88' LT	
B85 - STA 92+50.00, 14.88' LT	
B86 - STA 96+30.00, 14.88' LT	
B87 - STA 98+00.00, 14.87' LT	
B88 - STA 100+00.00, 14.88' LT	
B89 - STA 100+39.00, 14.89' LT	
B90 - STA 101+25.00, 14.88' LT	
B91 - STA 105+50.00, 14.88' LT	
B92 - STA 107+50.00, 16.88' LT	
B93 - STA 104+00.00, 14.88' LT	
UNDERDRAIN	
STA 17+10.00, 15.88' LT TO STA 19+46.00, 14.92' LT	236.0'
STA 17+10.00, 18.15' RT TO STA 22+83.97, 22.98' RT	571.5'
STA 32+74.84, 14.95' LT TO STA 33+49.33, 15.91' LT	74.2'
STA 38+14.51, 14.88' RT TO STA 47+30.00, 14.88' RT	915.5'
STA 50+52.00, 15.05' LT TO STA 51+75.00, 15.87' LT	123.0'
STA 55+53.00, 15.04' LT TO STA 55+93.00, 15.88' LT	40.0'
STA 56+23.00, 14.87' RT TO STA 73+31.47, 14.87' RT	1710.0'
STA 68+81.30, 14.01' LT TO STA 71+89.00, 14.87' LT	307.0'
STA 73+54.00, 15.87' LT TO STA 77+26.00, 14.95' LT	372.0'
STA 73+55.00, 15.87' RT TO STA 80+48.00, 19.84' RT	693.2'
STA 80+54.00, 15.88' LT TO STA 81+07.00, 15.10' LT	53.1'
STA 81+11.56, 19.80' RT TO STA 86+75.00, 15.88' RT	563.6'
STA 84+52.00, 15.05' LT TO STA 87+50.00, 15.88' LT	298.3'
STA 87+62.98, 14.88' RT TO STA 91+63.98, 14.88' RT	399.5'
STA 87+65.00, 15.88' LT TO STA 89+99.00, 14.88' LT	235.4'

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED		DEB	10/16
CHECKED-REVIEWED		SRD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

DRAINAGE SUMMARY SHEET

SHEET NUMBER

10

OF 213

TYLININTERNATIONAL

Date:3/7/2019

Username:

Division: HIGHWAY

Filename: ...\MSTA\008_Drainage_ 03.dgn

STATION	CULVERT PIPE											CATCH BASIN									PIPE ARCH				UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III																	TYPE B		TYPE C					
								SMOOTHLINED		CORRUGATED										BEHIND CURB CB				GAGE OR WALL THICKNESS	TYPE B	OUTLET	SMOOTHLINED		CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C	C1	F3	F4	F5	F6	F5-C	F6-C	SPAN	RISE	LENGTH		LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
UNDERDRAIN																																
STA 92+51.00, 14.96' LT TO STA 96+29.00, 14.96' LT																									377.8'							
STA 98+62.00, 15.88' LT TO STA 99+99.00, 14.97' LT																									137.0'							
STA 105+55.00, 17.88' LT TO STA 107+49.00, 16.94' LT																									194.0'							
STA 38+00.00, 27.80' RT TO STA 38+14.51, 14.88' RT																										21.0'					45° ELBOW	
STA 56+05.75, 32.13' RT TO STA 56+23.00, 14.87' RT																										24.4'					45° ELBOW	
STA 7+31.47, 14.87' RT TO STA 7+51.16, 35.16' RT																										28.3'					45° ELBOW	
STA 87+43.46, 34.01' RT TO STA 87+62.98, 14.87' RT																										27.2'					45° ELBOW	
STA 91+63.98, 14.88' RT TO STA 91+93.79, 44.83' RT																										42.4'					45° ELBOW	
STA 16+16.21, 19.30' LT TO STA 17+03.60, 14.96' LT																											24"	87.7'				
STA. 19+50.00, 14.98' LT TO STA. 22+50.06, 14.96' LT																											12"	303.2'				
STA 22+77.90, 24.58' LT TO STA 25+91.00, 14.91' LT																											15"	317.2'				
STA 22+86.03, 23.02' RT TO STA 31+47.98, 14.87' RT																											12"	855.6'				
STA 25+95.00, 15.10' LT TO STA 27+82.20, 14.90' LT																											15"	187.9'				
STA 27+86.17, 14.97' LT TO STA 31+88.35, 14.90' LT																											15"	406.2'				
STA 31+52.00, 14.88' RT TO STA 31+88.35, 14.88' RT																											12"	36.0'				
STA 31+92.34, 15.06' LT TO STA 32+70.89, 14.96' LT																											12"	78.5'				
STA 36+58.83, 14.93' LT TO STA 38+22.98, 14.92' LT																											24"	162.6'				
STA 38+27.00, 14.92' LT TO STA 40+16.75, 14.92' LT																											18"	189.1'				
STA 40+20.75, 14.90' LT TO STA 41+68.76, 14.90' LT																											18"	148.7'				
STA 41+72.73, 14.90' LT TO STA 44+48.00, 14.90' LT																											18"	276.9'				
STA 44+52.00, 14.88' LT TO STA 45+97.50, 14.90' LT																											15"	146.1'				
STA 46+02.50, 14.88' LT TO STA 46+48.00, 14.88' LT																											15"	45.6'				
STA 46+52.00, 15.03' LT TO STA 47+58.00, 15.02' LT																											12"	106.1'				
STA 47+62.00, 14.91' LT TO STA 48+48.00, 15.00' LT																											12"	86.0'				
STA 48+52.00, 15.00' LT TO STA 50+48.00, 15.00' LT																											12"	196.1'				
STA 51+82.00, 14.97' LT TO STA 53+28.00, 15.00' LT																											12"	146.2'				
STA 53+32.00, 14.97' LT TO STA 54+62.50, 15.02' LT																											15"	130.5'				
STA 54+67.50, 15.01' LT TO STA 55+49.00, 14.98' LT																											12"	81.5'				
STA 56+06.00, 14.90' LT TO STA 56+97.50, 14.90' LT																											24"	91.5'				
STA 57+02.5, 14.93' LT TO STA 58+16.5, 14.93' LT																											24"	114.0'				
STA 58+21.50, 14.91' LT TO STA 60+48.00, 14.92' LT																											24"	226.5'				
STA 60+52.00, 14.95' LT TO STA 61+73.00, 14.94' LT																											18"	121.0'				
STA 61+77.00, 14.92' LT TO STA 64+51.00, 14.98' LT																											18"	274.1'				
STA 64+55.00, 14.98' LT TO STA 65+65.00, 14.98' LT																											18"	110.0'				
STA 65+71.00, 15.02' LT TO STA 66+24.50, 14.94' LT																											18"	53.5'				
STA 66+28.50, 14.94' LT TO STA 68+77.50, 14.93' LT																											18"	249.0'				
STA 71+91.00, 14.87' LT TO STA 72+51.00, 14.88' LT																											12"	59.8'				
STA 72+53.00, 14.94' LT TO STA 73+46.62, 14.75' LT																											15"	93.7'				
STA 77+30.00, 14.96' LT TO STA 79+07.00, 15.11' LT																											12"	177.1'				
STA 79+11.00, 14.95' LT TO STA 80+48.00, 14.95' LT																											18"	137.0'				
STA 80+52.00, 20.00' RT TO STA 81+07.57, 20.00' RT																											18"	55.6'				
STA 81+11.00, 14.95' LT TO STA 82+57.00, 15.07' LT																											18"	146.0'				
STA 82+63.00, 14.88' LT TO STA 83+37.50, 14.95' LT																											15"	74.5'				
STA 83+42.50, 15.10' LT TO STA 84+48.00, 15.02' LT																											15"	105.6'				
STA 90+01.00, 14.94' LT TO STA 91+94.00, 16.91' LT																											12"	193.1'				
STA 91+98.00, 17.07' LT TO STA 92+49.00, 14.93' LT																											12"	51.0'				
STA 96+31.00, 14.91' LT TO STA 97+99.00, 14.94' LT																											12"	168.0'				
STA 98+01.00, 14.94' LT TO STA 98+57.26, 16.99' LT																											12"	56.3'				
STA 100+01.00, 14.88' LT TO STA 100+38.00, 14.88' LT																											12"	37.0'				
STA 100+40.00, 14.97' LT TO STA 101+24.00, 14.91' LT																											12"	84.0'				
STA 101+26.00, 14.91' LT TO STA 102+73.92, 17.06' LT																											12"	148.0'				
STA 102+77.91, 17.04' LT TO STA 103+99.00, 14.92' LT																											15"	121.2'				
STA 104+01.00, 14.92' LT TO STA 105+49.00, 14.92' LT																											15"	148.0'				
STA 107+51.00, 16.93' LT TO STA 108+35.68, 21.27' LT																											12"	85.0'				CONNECT TO EXISTING

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
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CHECKED-REVIEWED	SRD	2/19
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

DRAINAGE SUMMARY SHEET

SHEET NUMBER

11

OF 213

TYLIN INTERNATIONAL

Filename: ...\MSTA\009_Drainage_ 04.dgn Username: Division: HIGHWAY Date:3/7/2019

GENERAL NOTES:

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS:
   CHARTER COMMUNICATIONS
   CONSOLIDATED COMMUNICATIONS
   EMERA MAINE
   HAMPDEN TELEPHONE COMPANY
   HAMPDEN WATER DISTRICT
   TOWN OF HAMPDEN

   ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED.

2. CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.

3. THE CLEARING LINES SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. THE ACTUAL LINES FOR CLEARING AND THINNING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE RESIDENT.

4. STUMPS HAVE BEEN ESTIMATED TO BE REMOVED UNDER ITEM 201.24 REMOVE STUMP. HOWEVER, WHERE DIRECTED BY THE RESIDENT, ITEM 631.20 STUMP CHIPPER RENTAL, MAY BE USED TO REMOVE STUMPS.

5. GRUBBING IN FILL AREAS HAVE BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT.

6. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.

7. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.

8. REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.

9. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19.

10. EXISTING INSLOPES IN PROPOSED FILL AREAS SHALL BE BENCHED BY EXCAVATING STEPS OF SUFFICIENT WIDTH TO PERMIT PLACING AND COMPACTING THE FILL MATERIAL ALONG WITH THE MATERIAL REMOVED.

11. RESIDENTIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH:
    2" HOT MIX ASPHALT AND
    12" AGGREGATE SUBBASE COURSE - GRAVEL

12. COMMERCIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH:
    3" HOT MIX ASPHALT AND
    11" AGGREGATE SUBBASE COURSE - GRAVEL

13. GRAVEL ENTRANCES SHALL BE CONSTRUCTED WITH:
    14" AGGREGATE SUBBASE COURSE - GRAVEL OR,
    11" AGGREGATE SUBBASE COURSE - GRAVEL AND 3 INCHES UNTREATED AGGREGATE SURFACE COURSE UNLESS OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE RESIDENT.

14. GRASSED ENTRANCES SHALL BE CONSTRUCTED WITH:
    12" AGGREGATE SUBBASE COURSE GRAVEL
    2" LOAM, SEED & MULCH UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.

15. A 3' PAVED LIP SHALL BE PLACED AT ALL UNPAVED ENTRANCES UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.

16. ALL PAVED WALKS TO BE CONSTRUCTED WITH 12" AGGREGATE SUBBASE COURSE-GRAVEL AND 2" HOT MIX ASPHALT UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.

17. PRIOR TO SURFACE PAVING, EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).

18. EXISTING CULVERTS AND CATCH BASINS WILL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER THE APPROPRIATE PAY ITEMS.

19. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

20. THE CULVERT SIZES SHOWN ON THE PLANS AND CROSS SECTIONS ARE FOR SMOOTHLINED PIPES. FOR COMPARABLE CORRUGATED SIZES SEE THE DRAINAGE TABULATION.

21. WHERE 4 FT SECTIONS OF RCP ARE NECESSARY, THEY SHALL BE CAST SECTIONS PLACED IN THE MIDDLE THIRD OF THE PIPE.

22. ITEM 603.55 - CONCRETE PIPE TIES SHALL BE UTILIZED ON THE LAST TWO SECTIONS OF RCP.

23. PLASTIC END CAPS SHALL BE USED ON ALL DEAD END 6" TYPE B UNDERDRAIN AND SHALL BE CONSIDERED INCIDENTAL.

24. FLAT TOPS FOR CATCH BASINS ARE NOT ALLOWED UNLESS NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

25. ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO ITEM 604.

26. ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO ALLOW FOR PROPOSED PIPE CONNECTIONS WILL NOT BEPAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO ITEM 603 OR 605.

27. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED IN ACCORDANCE WITH STANDARD DETAIL 802(05), UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

28. RIPRAP FOR DRAINAGE OUTLET PROTECTION SHALL BE CONSTRUCTED AS FOLLOWS, UNLESS OTHERWISE NOTED IN THE PLANS.

U.D. OUTLETS	-	3' x 3' SQUARE PAD	24" OUTLETS	-	6' x 9' APRON
12" OUTLETS	-	3' x 4.5' APRON	30" OUTLETS	-	7.5' x 11.5' APRON
15" OUTLETS	-	4' x 6' APRON	36" OUTLETS	-	9' x 13.5' APRON
18" OUTLETS	-	4.5' x 7' APRON			

29. EXISTING ABANDONED WATER/SEWER MAINS BROKEN BY THE CONTRACTOR DURING CONSTRUCTION SHALL HAVE THE ENDS PLUGGED WITH BRICK AND MORTAR. COST FOR ALL LABOR AND MATERIAL WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO DIRECT PAYMENT WILL BE MADE.

30. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.

31. GUARDRAIL WHICH IS REMOVED AND NOT REUSED ON THE PROJECT SHALL BECOME PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

32. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END.

33. A DELINEATOR POST (ITEM 606.356) WILL BE INSTALLED AT EACH UNDERDRAIN OUTLET.

34. A DELINEATOR POST (ITEM 606.356) WILL BE INSTALLED AT EACH END OF A RUN OF BITUMINOUS CURB.

35. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL OTHER AREAS.

36. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN LAWN AREAS AND 2 INCHES IN ALL OTHER AREAS
    UNLESS OTHERWISE NOTED OR DIRECTED.

37. ANY BASE PAVEMENT NOT SURFACED BEFORE WINTER WILL REQUIRE TEMPORARY PAVEMENT MARKINGS OF PAINT, BOTH YELLOW CENTERLINE AND WHITE EDGE LINES WILL BE CONSIDERED PART OF ITEM 627.78.

38. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. PAYMENT FOR THIS WORK WILL BE MADE UNDER THE APPROPRIATE RENTAL ITEMS.

39. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE

40. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THIS PLAN SET IS FOR THE USE OF THE BIDDERS AND THE CONTRACTOR. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS AT THE CONSTRUCTION SITE. MAINEDOT SHALL NOT BE RESPONSIBLE FOR THE BIDDER'S OR CONTRACTOR'S INTERPRETATIONS OF OR CONCLUSIONS DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS CONTAINED IN THE PLAN SET PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.

41. THE PROJECT GEOTECHNICAL REPORT TITLED GEOTECHNICAL DATA REPORT FOR THE RECONSTRUCTION OF US ROUTE 1A/STATE ROUTE 9 HAMPDEN, MAINE, SOILS REPORT 2019-01, DATED JANUARY 11, 2019 CAN BE ACCESSED AT THE MAINEDOT WEBSITE.

42. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION AREAS.

43. ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.

44. EXISTING UNDERGROUND UTILITY LOCATION AND DEPTHS IN THE PLAN SET ARE APPROXIMATE BASED UPON THE DESIGN PLANS AND INFORMATION PROVIDED BY MaineDOT. THE CONTRACTOR SHALL VERIFY THE UTILITY LOCATIONS AND IDENTIFY POTENTIAL CONFLICTS WITH THE PROPOSED WORK. THE CONTRACTOR SHALL COMPLETE TEST PITS AT DRAINAGE CONFLICT LOCATIONS AS DIRECTED BY THE RESIDENT FOR THE PURPOSES OF DETERMINING THE UTILITY LINE LOCATIONS IN THESE AREAS. THIS WORK SHALL BE PAID FOR UNDER ITEMS *629.05 AND *631.12. ALL OTHER TEST PITS COMPLETED FOR THE BENEFIT OF THE CONTRACTOR, UNLESS OTHERWISE DIRECTED, SHALL BE INCIDENTAL TO THE WORK.

45. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

46. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.

47. ALL DITCHES NOT OTHERWISE TREATED SHALL HAVE ITEM 613.319 - EROSION CONTROL BLANKET.

48. FINAL STRIPING FOR THE PROJECT SHALL BE DONE BY THE CONTRACTOR PER THE STRIPING PLAN IN THE CONTRACT DOCUMENTS. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

49. PAVEMENT MARKINGS SHALL CONFORM TO THE STANDARD DETAILS AND LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE ABBREVIATIONS SHOWN ON THE PLANS ARE AS FOLLOWS.

DYCL - 4" DOUBLE YELLOW CENTERLINE	SWEL - 4" SINGLE WHITE EDGE LINE
SYCL - 4" SINGLE YELLOW CENTERLINE	SL - 12" WHITE STOP LINE

50. EXCLUDING WATER AND GAS GATE VALVES, ALL HMA FOR PATCHING AROUND ADJUSTED, ALTERED, OR REBUILT UTILITY STRUCTURES SHALL MEET THE GRADATION REQUIREMENTS OF A 9.5 MM OR 12.5 MM MIXTURE. THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT FOR THE PATCH AT LEAST TWO FEET AWAY FROM THE NEAREST EDGE OF THE STRUCTURE. THE CONTRACTOR SHALL PLACE HMA IN LIFTS OF 3" OR LESS, AS DIRECTED BY THE RESIDENT, AND COMPACT THE HMA USING A MINIMUM OF A 150 POUND PLATE COMPACTOR. HMA FOR PATCHING AROUND ADJUSTED, ALTERED, OR REBUILT UTILITY STRUCTURES IS CONSIDERED INCIDENTAL TO THE RESPECTIVE PAYITEM FOR ADJUST, ALTER, OR REBUILD UTILITY STRUCTURE.

51. ALL PROPOSED PERMANENT SIGN LOCATIONS SHALL BE APPROVED BY THE REGIONAL TRAFFIC ENGINEER.

52. REMOVAL OF EXISTING CULVERTS OUTSIDE OF PROPOSED CULVERT TRENCHES AND REMOVAL OF EXISTING HEADWALLS SHALL BE PAID UNDER COMMON EXCAVATION.

53. THE LOCATION OF THE EXISTING UTILITIES AND DRAINAGE SHOWN ON THE PLANS AND CROSS SECTIONS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE APPROXIMATE AND NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS.

54. EXISTING UNDERGROUND UTILITIES ARE PARTIALLY SHOWN ON THE ROADWAY PLANS. NO PROPOSED UNDERGROUND UTILITIES ARE SHOWN ON THE ROADWAY PLANS. THE CONTRACTOR SHALL PLAN THEIR WORK ACCORDINGLY.

Filename: ...\MSTA\009_GeneralNotes.dgn Username: Division: HIGHWAY Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1157(700)X
WIN 11577.00
HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	2/18
CHECKED-REVIEWED	JRH	2/18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
P.E. NUMBER
DATE

HAMPDEN
US ROUTE 1A

GENERAL NOTES

TYLIN INTERNATIONAL

Filename: ...\010_ConstructionNotes_01.dgn Division: HIGHWAY Username: Date:3/7/2019

ITEM 201.11 - CLEARING

STATION	TO	STATION
22+98 LT		24+18 LT
24+55 LT		25+09 LT
31+08 RT		32+84 RT
33+75 LT		33+90 LT
34+10 RT		35+06 RT
34+53 LT		35+31 LT
39+14 RT		39+22 RT
39+49 LT		41+00 LT
42+24 LT		42+52 LT
48+28 RT		49+01 RT
54+49 RT		55+49 RT
63+64 RT		64+14 RT
65+55 RT		66+27 RT
69+80 RT		69+94 RT
70+62 RT		70+78 RT
75+70 LT		76+40 LT
87+08 RT		87+30 RT
88+65 LT		89+28 LT
90+97 LT		92+49 LT
91+79 RT		92+27 RT
93+27 RT		94+08 RT
94+40 LT		94+60 LT
94+99 RT		98+47 RT
96+09 LT		96+29 LT
97+50 LT		98+32 LT
98+57 LT		99+42 LT
98+69 RT		100+23 RT
100+68 RT		101+84 RT
101+89 RT		102+04 RT
102+54 RT		103+22 RT
102+84 LT		103+88 LT
103+42 RT		103+89 RT

ITEM 201.23 - REMOVE SINGLE TREE TOP ONLY

STATION	OFFSET	TYPE
18+59.54	41.60' LT	24" Maple
36+02.49	48.35' RT	18" Spruce
36+22.93	54.63' LT	20" Spruce
36+64.06	39.01' RT	14" Spruce
36+88.03	37.81' RT	14" Spruce
37+38.35	30.30' LT	12" Maple Twin
37+79.84	31.26' LT	12" Maple Twin
37+95.62	31.04' LT	16" Ash
39+61.38	34.56' RT	16" Maple
41+65.71	32.37' LT	12" Maple
41+76.05	30.48' LT	12" Maple Triple
62+30.47	25.42' RT	18" Maple
65+50.61	29.64' RT	24" Maple
66+91.20	33.59' LT	14" Pine Twin
68+60.87	26.91' RT	20" Cedar
69+80.23	26.98' RT	16" Cedar
73+41.49	23.73' RT	20" Maple
85+71.26	26.42' RT	16" Maple
85+84.49	26.41' RT	12" Maple
86+00.19	26.30' RT	12" Maple
86+16.08	25.67' RT	14" Maple
86+31.01	25.33' RT	12" Maple
86+45.46	25.93' RT	18" Maple
96+41.66	32.07' LT	26" Spruce
100+43.45	31.56' LT	20" Pine
107+29.45	32.18' RT	14" Spruce

ITEM 201.24 - REMOVE STUMP

STATION	OFFSET	TYPE
18+59.54	41.60' LT	24" Maple
24+15.61	31.50' LT	32" Stump
34+95.47	101.87' RT	14" Elm Stump
36+02.49	48.35' RT	18" Spruce Stump
36+22.93	54.63' LT	20" Spruce Stump
36+64.06	39.01' RT	14" Spruce Stump
36+88.03	37.81' RT	14" Spruce Stump
37+38.35	30.30' LT	12" Maple Stump
37+61.82	42.63' RT	16" Maple Stump
37+79.84	31.26' LT	12" Maple Twin
37+95.62	31.04' LT	16" Ash
38+00.33	40.86' RT	18" Maple Stump
38+44.55	38.66' RT	14" Maple Stump
38+90.61	38.59' RT	14" Maple Stump
39+61.38	34.56' RT	16" Maple Stump
40+75.36	31.49' RT	22" Hardwood
40+90.96	31.96' RT	14" Hardwood
41+65.71	32.37' LT	12" Maple Stump
41+76.05	30.48' LT	12" Maple Stump
47+02.29	33.51' RT	18" Hardwood Stump
48+16.45	32.22' LT	14" Maple Stump
51+90.25	33.39' RT	18" Stump
57+33.28	36.12' RT	18" Spruce Stump
57+60.54	36.91' RT	14" Maple Stump
57+86.12	33.16' LT	18" Stump
58+18.76	30.90' RT	12" Birch Stump
58+40.45	36.78' RT	12" Spruce Stump
58+62.83	30.84' RT	20" Maple Stump
59+87.93	30.37' RT	20" Maple Stump
60+22.74	29.39' RT	18" Maple Stump
62+30.47	25.42' RT	18" Maple Stump
64+32.14	35.50' RT	12" Spruce Stump
65+50.61	29.64' RT	24" Maple Stump
66+41.83	37.53' RT	12" Poplar
66+91.20	33.59' LT	14" Pine Stump
68+60.87	26.91' RT	20" Cedar Stump
69+59.15	27.21' RT	14" Cedar
69+80.23	26.98' RT	16" Cedar
71+72.30	34.88' LT	22" Maple Stump
73+41.49	23.73' RT	20" Maple Stump
73+76.90	37.08' LT	36" Stump
75+71.24	36.40' RT	26" Stump
79+84.54	34.48' RT	22" Maple Stump
80+29.84	34.06' RT	18" Maple Stump
80+61.52	36.38' RT	16" Maple Stump
83+37.14	34.32' RT	12" Spruce Stump
84+01.86	30.45' LT	48" Maple Stump
84+38.31	35.91' RT	14" Maple Stump
85+63.96	31.14' LT	24" Stump
85+71.26	26.42' RT	16" Maple
85+84.49	26.41' RT	12" Maple
86+00.19	26.30' RT	12" Maple
86+16.08	25.67' RT	14" Maple
86+31.01	25.33' RT	12" Maple
86+45.46	25.93' RT	18" Maple
96+41.66	32.07' LT	26" Spruce Stump
100+43.45	31.56' LT	20" Pine Stump
106+98.65	37.41' RT	14" Oak
107+02.40	31.28' RT	12" Stump
107+29.45	32.18' RT	14" Spruce Stump
107+68.62	34.69' RT	36" Stump
107+76.15	40.03' RT	14" Pine Stump
107+93.08	34.15' RT	16" Cedar Stump

ITEM 203.21 - ROCK EXCAVATION
UNDETERMINED LOCATIONS

ITEM 606.1301 - 31" W-BEAM GUARDRAIL - MID-WAY SPLICE
(STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
30+19.84	16.00' RT		33+40.02	16.00' RT	318.75'
32+98.07	24.00' LT		33+20.69	24.00' LT	22.62'
33+23.11	24.00' LT		33+48.37	21.03' LT	25.00'
130+37.62	11.23' RT		131+37.62	11.00' RT	100.00'

ITEM 606.1303 - 31" W-BEAM GUARDRAIL - MID-WAY SPLICE
(STEEL POST, 8" OFFSET BLOCKS, 15' RADIUS AND LESS)

STATION	OFFSET	TO	STATION	OFFSET	RADIUS	LENGTH
131+37.62	11.00' RT		131+52.40	27.45' RT	15.00'	25.00'

ITEM 606.1304 - 31" W-BEAM GUARDRAIL - MID-WAY SPLICE
(STEEL POST, 8" OFFSET BLOCKS, OVER 15' RADIUS)

STATION	OFFSET	TO	STATION	OFFSET	RADIUS	LENGTH
30+00.49	29.58' RT		30+19.84	16.00' RT	20.00'	25.00'
34+54.87	16.00' RT		130+25.18	12.06' RT	25.00'	25.00'
34+67.05	21.00' LT		35+40.21	39.71' LT	140.00'	56.63'
33+20.69	24.00' LT		33+23.11	24.00' LT	1301.00'	2.38'
130+25.18	12.06' RT		130+37.62	11.23' RT	50.00'	12.50'

ITEM 606.1305 - 31" W-BEAM GUARDRAIL - MID-WAY SPLICE
FLARE TERMINAL (31" HEIGHT)

STATION	OFFSET	TO	STATION	OFFSET
32+60.94	28.00' LT		32+98.07	24.00' LT

ITEM 606.1307 - BRIDGE TRANSITION (ASYMMETRICAL - TYPE 1)

STATION	OFFSET	TO	STATION	OFFSET
33+40.02	16.00' RT		33+60.26	16.02' RT
33+48.37	21.03' LT		33+69.18	20.98' LT
34+34.64	16.00' RT		34+54.87	16.00' RT
34+46.24	21.00' LT		34+67.05	21.00' LT

ITEM 606.265 - TERMINAL END - SINGLE RAIL - GALVANIZED STEEL

STATION	OFFSET
30+00.49	29.58' RT
131+52.40	27.45' RT
35+43.33	39.54' LT

ITEM 608.26 - CURB RAMP DECTECTABLE WARNING FIELD

STATION		AREA (SF)
22+58	LT	8.7
23+09	LT	8.7
35+43	LT	25.6
36+15	LT	14.4
54+81	LT	8.7
55+31	LT	8.7
63+06	LT	10.2
63+06	RT	10.2
65+03	LT	8.7
65+52	LT	8.7
69+00	LT	8.7
69+59	LT	8.7
69+91	LT	10.2
69+91	RT	10.2
82+76	LT	8.7
83+23	LT	8.7
90+20	LT	8.7
90+85	LT	8.7
105+80	LT	8.7
106+25	LT	8.7

ITEM 609.11 - VERTICAL CURB TYPE 1

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
15+93.06	19.50' LT		16+05.02	19.50' LT	12.00'
16+05.02	19.50' LT		16+12.23	20.53' LT	7.31'
16+12.23	20.53' LT		16+24.66	20.53' LT	12.48'
16+24.66	20.52' LT		16+70.00	16.00' LT	45.73'
16+70.00	16.00' LT		17+02.50	16.00' LT	32.54'
16+99.55	19.02' RT		17+37.86	16.29' RT	38.41'
17+36.50	16.00' LT		18+50.90	16.00' LT	114.39'
18+84.90	16.00' LT		19+50.00	16.00' LT	65.10'
19+55.07	16.00' RT		20+23.62	16.00' RT	68.55'
19+84.00	16.00' LT		20+21.01	16.00' LT	37.01'
20+55.01	16.00' LT		22+53.99	16.00' LT	202.16'
23+24.60	16.00' LT		24+12.34	16.00' LT	89.30'
24+45.75	16.00' LT		25+95.00	16.00' LT	144.45'
26+29.00	16.00' LT		26+78.84	16.00' LT	49.84'
27+12.71	16.00' LT		27+86.17	16.00' LT	74.22'
28+19.82	16.00' LT		28+66.48	16.00' LT	47.14'
29+00.13	16.00' LT		29+99.57	16.00' LT	100.47'
30+33.22	16.00' LT		30+64.54	16.00' LT	31.64'
31+14.03	16.00' LT		32+19.62	16.00' LT	106.29'
32+70.84	16.00' LT		33+67.17	16.00' LT	95.76'

ITEM 609.11 - VERTICAL CURB TYPE 1 - CIRCULAR

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
15+83.15	22.17' LT		15+93.06	19.50' LT	10.43'
22+53.99	16.00' LT		22+61.91	17.37' LT	8.21'
23+15.60	17.48' LT		23+24.60	16.00' LT	9.32'

ITEM 609.21 - CONCRETE SLIPFORM CURB (MOLD 1)

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
34+46.42	16.00' LT		35+23.94	26.90' LT	79.22'
36+24.74	25.74' LT		37+35.27	16.00' LT	111.17
37+69.69	16.00' LT		39+01.00	16.00' LT	129.98
39+35.00	16.00' LT		41+35.88	16.00' LT	201.29
41+69.61	16.00' LT		44+08.34	16.00' LT	240.29
44+42.23	16.00' LT		45+27.75	16.00' LT	85.86
45+61.61	16.00' LT		46+90.00	16.00' LT	128.63
47+24.00	16.00' LT		48+16.00	16.00' LT	92
48+50.00	16.00' LT		49+93.33	16.00' LT	143.33
50+44.71	16.00' LT		51+38.00	16.00' LT	93.29
51+72.00	16.00' LT		52+35.00	16.00' LT	63
52+69.00	16.00' LT		53+31.00	16.00' LT	62
53+65.00	16.00' LT		54+73.50	17.39' LT	108.66
55+39.28	17.59' LT		56+50.07	16.00' LT	110.95
56+84.07	16.00' LT		57+84.00	16.00' LT	99.93
58+18.00	16.00' LT		59+57.00	16.00' LT	139
59+91.00	16.00' LT		60+05.00	16.00' LT	14
60+39.00	16.00' LT		60+85.00	16.00' LT	46
61+19.00	16.00' LT		62+57.58	16.00' LT	138.64
62+91.55	16.00' LT		62+99.55	16.00' LT	8
63+13.54	16.00' LT		63+36.24	16.00' LT	22.71
63+16.96	20.59' RT		63+39.87	55.71' RT	43.48
63+79.24	16.00' LT		64+17.76	16.00' LT	38.51
64+51.76	16.00' LT		64+96.47	17.46' LT	44.87
65+58.66	17.39' LT		65+91.40	16.00' LT	32.92
66+25.38	16.00' LT		68+91.20	17.60' LT	265.86
69+66.60	17.60' LT		69+83.63	16.00' LT	17.11
69+97.69	16.00' LT		71+45.73	16.00' LT	147.36
70+01.50	17.28' RT		70+18.65	50.41' RT	40.59
71+79.89	16.00' LT		72+16.19	16.00' LT	36.13
72+50.29	16.00' LT		72+69.22	16.00' LT	18.92
73+03.22	16.00' LT		73+76.00	16.00' LT	72.78
74+10.00	16.00' LT		74+75.00	16.00' LT	65
75+09.00	16.00' LT		76+34.00	16.00' LT	125
76+68.00	16.00' LT		77+28.99	16.00' LT	60.99
77+63.01	16.00' LT		79+10.00	16.00' LT	146.99
79+44.00	16.00' LT		79+50.00	16.00' LT	6
79+84.00	16.00' LT		80+53.01	16.00' LT	69.01
80+87.01	16.00' LT		82+69.71	17.39' LT	182.86
83+30.39	17.39' LT		83+63.75	16.00' LT	33.51
83+97.75	16.00' LT		85+10.00	16.00' LT	112.25
85+44.00	16.00' LT		87+55.77	16.00' LT	212.07
87+89.56	16.00' LT		88+39.57	16.00' LT	50.33
88+73.37	16.00' LT		90+12.20	17.50' LT	139.71
90+92.03	17.37' LT		93+87.43	16.00' LT	295.41
94+37.45	16.00' LT		94+60.61	16.00' LT	23.14
94+94.63	16.00' LT		96+36.20	16.00' LT	141.48
96+70.22	16.00' LT		98+85.92	16.00' LT	215.67
99+19.92	16.00' LT		100+45.50	16.00' LT	125.58
101+05.50	16.00' LT		101+79.61	16.00' LT	74.11
102+13.61	16.00' LT		105+73.80	17.25' LT	360.34
106+34.25	18.09' LT		108+35.68	18.13' LT	201.44
140+43.76	38.30' LT		140+53.81	24.77' LT	16.95

ITEM 609.21 - CONCRETE SLIPFORM CURB (MOLD 2)

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
34+97.79	28.34' RT		35+07.58	18.00' RT	16.01'
35+07.58	18.00' RT		35+21.74	18.00' RT	14.36'
35+21.74	18.00' RT		35+34.11	40.96' RT	31.88'
130+33.48	9.25' LT		130+48.32	7.00' LT	15.06'
130+48.32	7.00' LT		130+79.59	7.00' LT	31.28'
130+79.59	7.00' LT		130+82.68	15.93' LT	12.38'
270+47.56	9.00' RT		270+81.03	9.00' RT	35.36'
230+28.68	13.39' RT		230+30.05	5.00' RT	12.45'
230+28.68	13.39' RT		230+53.66	8.47' RT	18.29'
230+30.05	5.00' RT		230+51.97	5.00' RT	19.07'
230+51.97	5.00' RT		230+53.66	8.47' RT	4.84'

ITEM 609.21 - CONCRETE SLIPFORM CURB (MOLD 2 MODIFIED)

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
30+23.88	16.00' RT		32+46.00	16.00' LT	220.49'

T.Y.LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	BM	4/18
CHECKED-REVIEWED	JRH	4/18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CONSTRUCTION NOTES

SHEET NUMBER

13

OF 213

Filename: ...\011_ConstructionNotes_02.dgn Division: HIGHWAY Username: Date:3/7/2019

ITEM 609.21 - CONCRETE SLIPFORM CURB (MOLD 6)

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
34+93.69	18.00' LT		35+34.43	18.00' LT	40.20'
35+34.43	18.00' LT		35+56.88	27.40' LT	24.67'
35+35.29	30.13' LT		35+55.35	30.78' LT	19.61'
140+40.28	25.04' LT		140+41.85	38.88' LT	13.92'
35+55.35	30.78' LT		35+56.88	27.40' LT	4.72'
140+40.28	25.04' LT		140+41.25	23.09' LT	2.30'
140+41.25	23.09' LT		140+56.63	18.45' LT	16.21'
140+56.63	18.45' LT		140+56.88	22.22' LT	6.68'

ITEM 609.214 - CONCRETE SLIPFORM CURB - 4' TERMINAL END

STATION	OFFSET	TO	STATION	OFFSET
30+19.84	16.00' RT		30+23.88	16.00' RT
32+46.00	16.00' RT		32+50.00	16.00' RT
37+35.27	16.00' LT		37+39.32	16.00' LT
37+65.64	16.00' LT		37+69.69	16.00' LT
39+01.00	16.00' LT		39+05.00	16.00' LT
39+31.00	16.00' LT		39+35.00	16.00' LT
41+35.88	16.00' LT		41+39.85	16.00' LT
41+65.64	16.00' LT		41+69.61	16.00' LT
44+08.34	16.00' LT		44+12.33	16.00' LT
44+38.24	16.00' LT		44+42.23	16.00' LT
45+27.75	16.00' LT		45+31.73	16.00' LT
45+57.63	16.00' LT		45+61.61	16.00' LT
46+90.00	16.00' LT		46+94.00	16.00' LT
47+20.00	16.00' LT		47+24.00	16.00' LT
48+16.00	16.00' LT		48+20.00	16.00' LT
48+46.00	16.00' LT		48+50.00	16.00' LT
49+93.33	16.00' LT		49+97.33	16.00' LT
50+40.71	16.00' LT		50+44.71	16.00' LT
51+38.00	16.00' LT		51+42.00	16.00' LT
51+68.00	16.00' LT		51+72.00	16.00' LT
52+35.00	16.00' LT		52+39.00	16.00' LT
52+65.00	16.00' LT		52+69.00	16.00' LT
53+31.00	16.00' LT		53+35.00	16.00' LT
53+61.00	16.00' LT		53+65.00	16.00' LT
54+73.50	17.39' LT		54+77.16	19.00' LT
55+35.54	19.00' LT		55+39.28	17.59' LT
56+50.07	16.00' LT		56+54.07	16.00' LT
56+80.07	16.00' LT		56+84.07	16.00' LT
57+27.93	16.00' RT		57+31.93	16.00' RT
57+81.70	16.00' RT		57+85.70	16.00' RT
57+84.00	16.00' LT		57+88.00	16.00' LT
58+11.70	16.00' RT		58+15.70	16.00' RT
58+14.00	16.00' LT		58+18.00	16.00' LT
59+57.00	16.00' LT		59+61.00	16.00' LT
59+87.00	16.00' LT		59+91.00	16.00' LT
59+87.41	16.00' RT		59+91.41	16.00' RT
60+05.00	16.00' LT		60+09.00	16.00' LT
60+17.41	16.00' RT		60+21.41	16.00' RT
60+35.00	16.00' LT		60+39.00	16.00' LT
60+37.22	16.00' RT		60+41.22	16.00' RT
60+67.22	16.00' RT		60+71.22	16.00' RT
60+85.00	16.00' LT		60+89.00	16.00' LT
61+15.00	16.00' LT		61+19.00	16.00' LT
61+72.51	16.00' RT		61+76.51	16.00' RT
62+57.58	16.00' LT		62+61.57	16.00' LT
62+87.56	16.00' LT		62+91.55	16.00' LT
62+99.55	16.00' LT		63+03.55	16.00' LT
63+09.54	16.00' LT		63+13.54	16.00' LT
63+36.24	16.00' LT		63+40.24	16.00' LT
63+75.24	16.00' LT		63+79.24	16.00' LT
64+17.76	16.00' LT		64+21.76	16.00' LT
64+47.76	16.00' LT		64+51.76	16.00' LT
64+96.09	16.00' RT		65+00.09	16.00' RT
64+96.47	17.46' LT		65+00.15	19.00' LT
65+55.00	19.00' LT		65+58.66	17.39' LT
65+71.00	15.99' RT		65+75.00	15.99' RT
65+91.40	16.00' LT		65+95.40	16.00' LT
66+21.38	16.00' LT		66+25.38	16.00' LT
68+91.20	17.60' LT		68+94.97	19.00' LT
69+62.84	19.00' LT		69+66.60	17.60' LT
69+83.63	16.00' LT		69+87.65	16.00' LT
69+93.67	16.00' LT		69+97.69	16.00' LT
71+45.73	16.00' LT		71+49.75	16.00' LT
71+75.87	16.00' LT		71+79.89	16.00' LT
72+16.19	16.00' LT		72+20.20	16.00' LT
72+46.29	16.00' LT		72+50.29	16.00' LT
72+69.22	16.00' LT		72+73.22	16.00' LT
72+99.22	16.00' LT		73+03.22	16.00' LT
73+76.00	16.00' LT		73+80.00	16.00' LT
74+06.00	16.00' LT		74+10.00	16.00' LT
74+75.00	16.00' LT		74+79.00	16.00' LT
75+05.00	16.00' LT		75+09.00	16.00' LT
76+34.00	16.00' LT		76+38.00	16.00' LT
76+64.00	16.00' LT		76+68.00	16.00' LT
77+28.99	16.00' LT		77+32.99	16.00' LT
77+59.01	16.00' LT		77+63.01	16.00' LT
79+10.00	16.00' LT		79+14.00	16.00' LT
79+40.00	16.00' LT		79+44.00	16.00' LT
79+50.00	16.00' LT		79+54.00	16.00' LT
79+80.00	16.00' LT		79+84.00	16.00' LT
80+53.01	16.00' LT		80+57.01	16.00' LT
80+83.01	16.00' LT		80+87.01	16.00' LT
82+69.71	17.39' LT		82+73.37	19.00' LT
83+26.74	19.00' LT		83+30.39	17.39' LT
83+63.75	16.00' LT		83+67.75	16.00' LT
83+93.75	16.00' LT		83+97.75	16.00' LT
85+10.00	16.00' LT		85+14.00	16.00' LT
85+40.00	16.00' LT		85+44.00	16.00' LT
87+55.77	16.00' LT		87+59.74	16.00' LT
87+85.58	16.00' LT		87+89.56	16.00' LT
88+39.57	16.00' LT		88+43.55	16.00' LT
88+69.39	16.00' LT		88+73.37	16.00' LT
90+12.20	17.50' LT		90+15.95	18.88' LT
90+88.39	19.00' LT		90+92.03	17.37' LT
93+87.43	16.00' LT		93+91.43	16.00' LT
94+33.45	16.00' LT		94+37.45	16.00' LT
94+60.61	16.00' LT		94+64.61	16.00' LT
94+90.63	16.00' LT		94+94.63	16.00' LT
96+36.20	16.00' LT		96+40.20	16.00' LT
96+66.22	16.00' LT		96+70.22	16.00' LT

ITEM 609.214 - CONCRETE SLIPFORM CURB - 4' TERMINAL END

STATION	OFFSET	TO	STATION	OFFSET
98+85.92	16.00' LT		98+89.92	16.00' LT
99+15.92	16.00' LT		99+19.92	16.00' LT
100+45.50	16.00' LT		100+49.50	16.00' LT
101+01.50	16.00' LT		101+05.50	16.00' LT
101+79.61	16.00' LT		101+83.61	16.00' LT
102+09.61	16.00' LT		102+13.61	16.00' LT
105+73.80	17.25' LT		105+77.39	19.00' LT
140+42.20	41.98' LT		140+43.76	38.30' LT
140+53.81	24.77' LT		140+56.88	22.22' LT

ITEM 609.218 - CONCRETE SLIPFORM CURB - 8' TERMINAL END

STATION	OFFSET	TO	STATION	OFFSET
36+18.50	30.89' LT		36+24.74	25.74' LT
63+09.55	17.60' RT		63+16.96	20.59' RT
69+93.67	16.00' RT		70+01.50	17.28' RT
106+26.52	20.01' LT		106+34.25	18.09' LT

ITEM 609.234 - TERMINAL CURB TYPE 1 - 4 FOOT

STATION	OFFSET	TO	STATION	OFFSET
16+95.56	19.31' RT		16+99.55	19.02' RT
17+02.50	16.00' LT		17+06.50	16.00' LT
17+32.50	16.00' LT		17+36.50	16.00' LT
17+37.86	16.29' RT		17+41.85	16.00' RT
18+50.90	16.00' LT		18+54.90	16.00' LT
18+80.90	16.00' LT		18+84.90	16.00' LT
19+50.00	16.00' LT		19+54.00	16.00' LT
19+51.07	16.00' RT		19+55.07	16.00' RT
19+80.00	16.00' LT		19+84.00	16.00' LT
20+21.01	16.00' LT		20+25.01	16.00' LT
20+23.62	16.00' RT		20+27.62	16.00' RT
20+51.01	16.00' LT		20+55.01	16.00' LT
24+12.34	16.00' LT		24+16.27	16.00' LT
24+41.82	16.00' LT		24+45.75	16.00' LT
25+95.00	16.00' LT		25+99.00	16.00' LT
26+25.00	16.00' LT		26+29.00	16.00' LT
26+78.84	16.00' LT		26+82.84	16.00' LT
27+08.75	16.00' LT		27+12.71	16.00' LT
27+86.17	16.00' LT		27+90.13	16.00' LT
28+15.86	16.00' LT		28+19.82	16.00' LT
28+66.48	16.00' LT		28+70.43	16.00' LT
28+96.17	16.00' LT		29+00.13	16.00' LT
29+99.57	16.00' LT		30+03.53	16.00' LT
30+29.26	16.00' LT		30+33.22	16.00' LT
30+64.54	16.00' LT		30+68.50	16.00' LT
31+10.07	16.00' LT		31+14.03	16.00' LT
32+19.62	16.00' LT		32+23.62	16.00' LT
32+66.84	16.00' LT		32+70.84	16.00' LT

ITEM 609.2341 - TERMINAL CURB TYPE 1 - 4 FOOT - CIRCULAR

STATION	OFFSET	TO	STATION	OFFSET
15+79.92	24.50' LT		15+83.15	22.17' LT
22+61.91	17.37' LT		22+65.48	19.00' LT
23+11.98	19.00' LT		23+15.60	17.48' LT

ITEM 610.08 - PLAIN RIPRAP

STATION	TO	STATION
31+87 RT		31+93 RT
32+50 RT		33+59 RT
33+56 LT		33+96 LT
34+26 LT		35+07 LT
34+14 RT		34+82 RT
131+05 RT		131+19 RT
131+20 LT		131+43 LT
54+62 RT		54+68 RT
56+00 RT		56+06 RT
73+51 RT		73+56 RT
87+37 RT		87+44 RT
231+33 LT		231+37 LT
231+33 RT		231+37 RT
91+06 RT		92+00 RT
98+57 RT		98+62 RT
102+74 RT		102+80 RT

610.18 - STONE DITCH PROTECTION

STATION	TO	STATION
23+65 RT		29+79 RT
271+12 LT		36+11 RT
36+50 RT		37+01 RT
37+56 RT		39+80 RT
38+29 LT		39+05 LT
54+48 RT		54+62 RT
56+06 RT		57+00 RT
56+21 LT		56+56 LT
61+71 LT		62+01 LT
65+50 LT		65+99 LT
91+38 LT		91+53 LT
98+00 LT		98+54 LT

CONSTRUCT ENTRANCES

STATION		TYPE	WIDTH
17+19.5	LT	PAVED	26.0'
17+55.3	RT	GRAVEL	29.6'
18+44.8	RT	PAVED	48.6'
18+67.9	LT	PAVED	26.0'
19+41.3	RT	PAVED	33.0'
19+67.0	LT	PAVED	26.0'
20+38.0	LT	PAVED	26.0'
20+43.9	RT	PAVED	32.1'
21+13.4	RT	PAVED	36.7'
24+29.0	LT	PAVED	26.0'
26+12.0	LT	PAVED	26.0'
26+95.8	LT	FIELD-GRAVEL	26.0'
28+03.0	LT	PAVED	26.0'
28+83.3	LT	PAVED	26.0'
29+93.2	RT	PAVED	36.8
30+16.4	LT	PAVED	26.0'
30+89.3	LT	PAVED	42.0'
32+45.2	LT	PAVED	43.2'
36+34.2	RT	PAVED	42.0'
37+26.0	RT	PAVED	30.2'
37+39.8	RT	PAVED	29.0'
37+52.5	LT	PAVED	26.0'
39+18.0	LT	PAVED	26.0'
39+98.4	RT	PAVED	47.6'
41+52.7	LT	PAVED	26.0'
41+53.9	RT	GRAVEL	34.0'
41+81.8	RT	PAVED	38.8'
43+94.3	RT	GRAVEL	36.4'
44+21.8	RT	GRAVEL	32.9'
44+25.3	LT	GRAVEL	26.0'
45+44.7	LT	GRAVEL	26.0'
46+33.1	RT	PAVED	63.7'
47+07.0	LT	PAVED	26.0'
47+53.6	RT	PAVED	48.6'
48+33.0	LT	PAVED	26.0'
49+42.8	RT	PAVED	42.2'
50+19.0	LT	PAVED	43.4'
51+55.0	LT	PAVED	26.0'
52+41.7	RT	PAVED	42.2'
52+52.0	LT	PAVED	26.0'
53+48.0	LT	PAVED	26.0'
53+66.4	RT	GRAVEL	42.6'
56+67.1	LT	PAVED	26.0'
57+14.9	RT	GRAVEL	33.6'
57+99.0	RT	PAVED	26.0'
58+01.0	LT	PAVED	26.0'
59+74.0	LT	PAVED	26.0'
60+04.4	RT	PAVED	26.0'
60+22.0	LT	PAVED	26.0'
60+54.2	RT	PAVED	26.0'
61+02.0	LT	PAVED	26.0'
61+90.2	RT	PAVED	36.2'
62+74.6	LT	PAVED	26.0'
63+57.7	LT	PAVED	35.0'
64+34.8	LT	PAVED	26.0'
64+83.7	RT	GRAVEL	32.5'
66+08.4	LT	PAVED	26.0'
67+48.4	RT	PAVED	40.7'
67+96.2	RT	PAVED	40.9'
68+38.8	RT	GRAVEL	45.0'
69+21.9	RT	GRAVEL	48.3'
70+99.7	RT	PAVED	76.7'
71+62.8	LT	PAVED	26.0'
71+97.1	RT	PAVED	46.9'
72+33.3	LT	PAVED	26.0'
72+80.4	RT	PAVED	52.6'
72+86.2	LT	PAVED	26.0'
73+93.0	LT	PAVED	26.0'
74+00.0	RT	GRAVEL	35.8'
74+47.4	RT	PAVED	35.3'
74+75.9	RT	PAVED	30.0'
74+92.0	LT	PAVED	26.0'
76+50.0	LT	PAVED	26.0'
77+36.6	RT	PAVED	35.9'
77+46.0	LT	PAVED	26.0'
77+61.5	RT	GRAVEL	32.7'
200+94.9	LT	GRAVEL	39.8'
201+03.7	RT	PAVED	16.7'
78+46.0	RT	PAVED	46.3'
79+12.6	RT	PAVED	46.0'
79+27.0	LT	PAVED	26.0'
79+67.0	LT	PAVED	26.0'
80+43.8	RT	PAVED	40.6'
80+70.0	LT	GRAVEL	26.0'
81+13.1	RT	PAVED	29.3'
81+30.9	RT	PAVED	30.6'
82+18.8	RT	PAVED	39.6'
83+54.4	RT	PAVED	52.5'
83+80.8	LT	PAVED	26.0'
84+66.6	RT	PAVED	42.3'
85+27.0	LT	PAVED	26.0'
87+72.7	LT	PAVED	26.0'
87+76.4	RT	PAVED	44.7'
88+56.5	LT	PAVED	26.0'
90+32.4	RT	PAVED	65.9
91+24.6	RT	PAVED	56.4'
92+56.1	RT	PAVED	40.0'
93+18.0	RT	FIELD/GRASS	38.7'
94+12.4	LT	GRAVEL	42.0'
94+77.6	LT	PAVED	26.0'

CONSTRUCT ENTRANCES

STATION		TYPE	WIDTH
96+53.2	LT	PAVED	26.0'
230+58.6	LT	PAVED	47.6'
231+11.1	LT	GRAVEL	44.4'
241+02.6	RT	GRAVEL	50.0'
99+03.0	LT	GRAVEL	26.0'
100+55.0	RT	PAVED	46.0'
100+62.4	LT	PAVED	26.0'
100+88.4	LT	PAVED	26.0'
101+88.5	RT	GRAVEL	34.5'
101+96.6	LT	PAVED	26.0'
102+11.3	RT	PAVED	30.8'
103+42.1	RT	PAVED	58.1'
108+05.3	RT	PAVED	48.2'
250+78.0	RT	PAVED	24.8'

613.319 - EROSION CONTROL BLANKET

STATION	TO	STATION
21+25 LT		22+74 LT
21+36 RT		22+83 RT
30+18 RT		30+87 RT
35+00 LT		140+87 LT
131+42 LT		131+50 LT
41+75 LT		44+07 LT
45+55 LT		46+06 LT
46+08 LT		46+97 LT
47+20 LT		47+59 LT
47+62 LT		48+21 LT
48+40 LT		48+49 LT
48+52 LT		49+33 LT
50+33 LT		50+49 LT
50+52 LT		51+45 LT
51+61 LT		51+79 LT
51+82 LT		52+42 LT
52+61 LT		53+29 LT
53+55 LT		54+74 LT
53+79 RT		54+49 RT
54+77 LT		54+91 LT
55+29 LT		56+19 LT
57+02 LT		57+88 LT
58+21 LT		59+68 LT
59+80 LT		60+15 LT
60+52 LT		60+94 LT
61+11 LT		61+72 LT
62+00 LT		62+69 LT
62+80 LT		63+46 LT
170+34 LT		170+61 LT
63+70 LT		64+24 LT
64+55 LT		65+09 LT
66+28 LT		67+70 LT
69+66 LT		69+80 LT
71+69 LT		72+27 LT
72+38 LT		72+51 LT
72+53 LT		72+80 LT
72+91 LT		73+45 LT
73+48 LT		73+79 LT
74+89 RT		75+62 RT
76+70 LT		77+33 LT
77+59 LT		79+08 LT
79+79 LT		80+49 LT
80+52 LT		80+66 LT
80+74 LT		81+08 LT
81+11 LT		82+76 LT
84+00 LT		84+49 LT
84+52 LT		85+00 LT
87+92 LT		88+20 LT
88+23 RT		89+98 RT
89+50 LT		89+98 LT
90+02 LT		90+31 LT
230+76 LT		230+93 LT
231+37 LT		231+47 LT
91+00 LT		91+47 LT
91+51 LT		91+96 LT
92+00 LT		92+60 LT
102+20 LT		102+76 LT
102+79 LT		105+49 LT
105+52 LT		105+75 LT
106+24 LT		108+01 LT

T·Y LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	BM	JTR	4/18
CHECKED-REVIEWED	JRH	TSK	4/18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

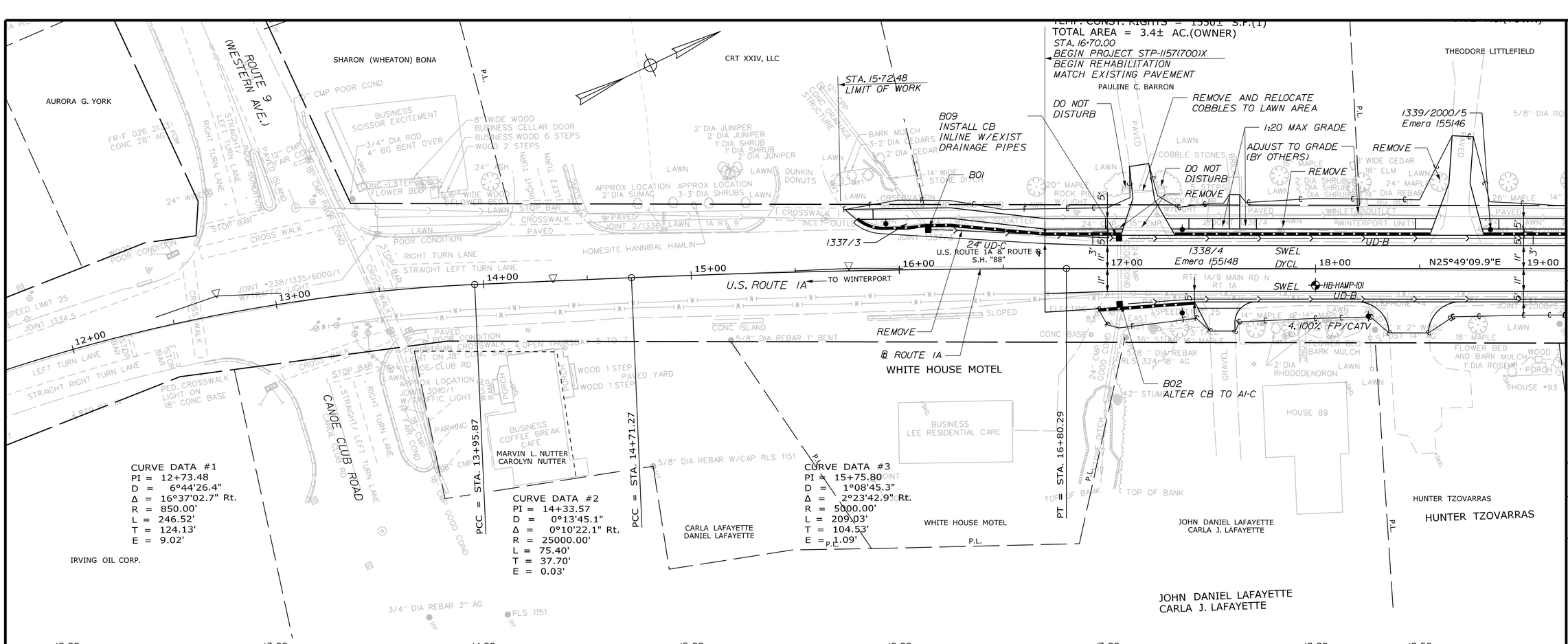
HAMPDEN
US ROUTE 1A

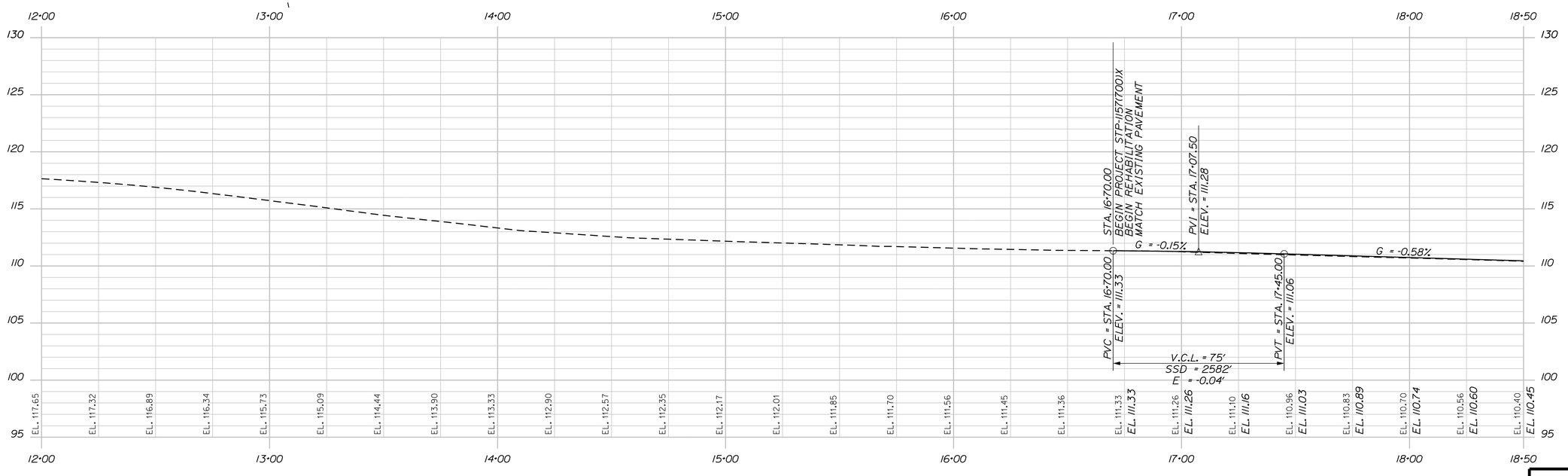
CONSTRUCTION NOTES

SHEET NUMBER

14

OF 213





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

	SIGNATURE	DATE
P.E. NUMBER		
DATE		

	BY	DATE
DESIGN-DETAILED	SRD	2/19
CHECKED-REVIEWED	SRD	2/19
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER R. MOULTON

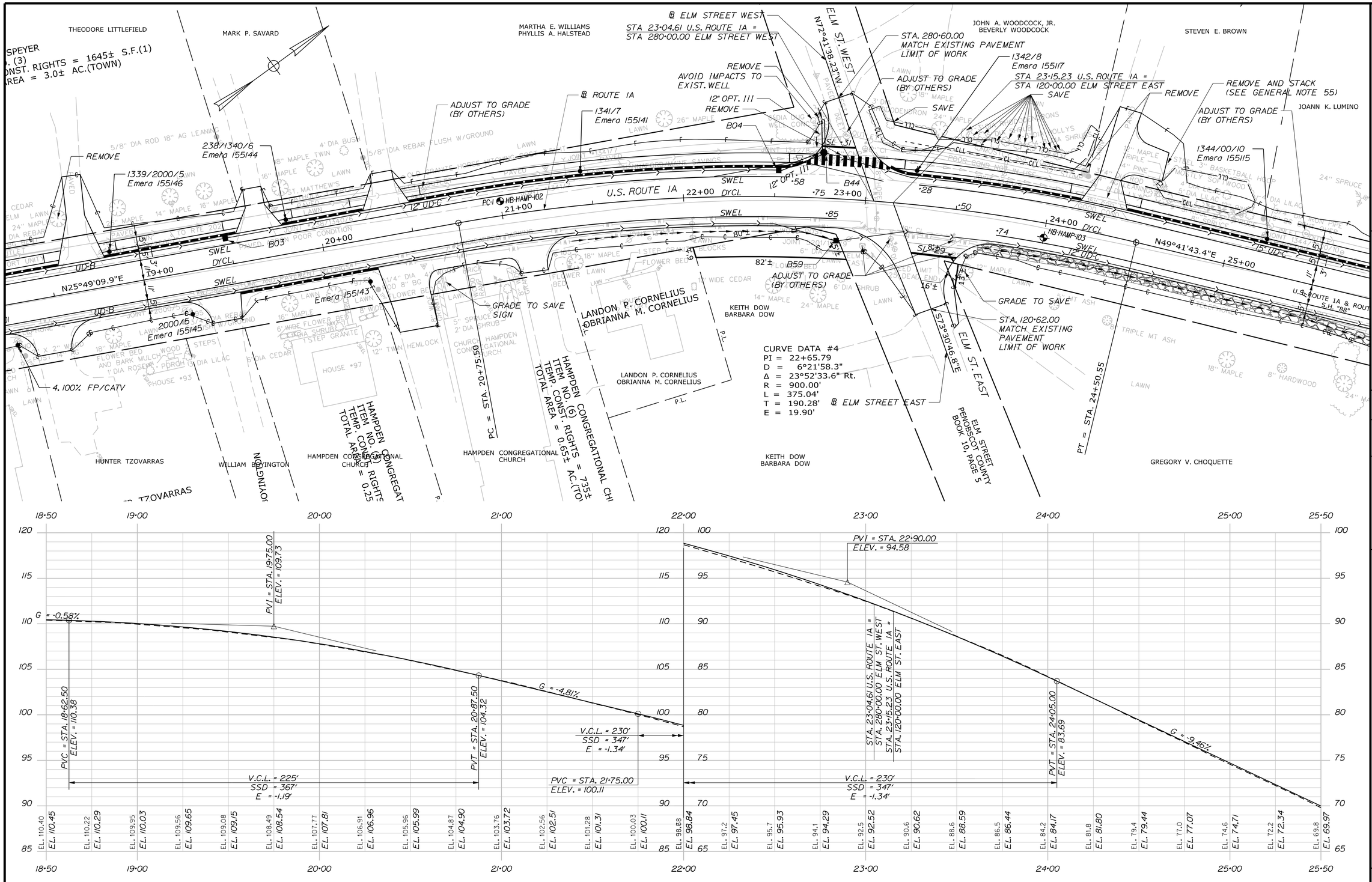
HAMPDEN
US ROUTE 1A

PLAN & PROFILE

SHEET NUMBER
15
OF 213

T·Y·LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\008_HDPlan01.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	TSK	2/19
CHECKED-REVIEWED	KSD	2/19
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

SHEET NUMBER

16

OF 213

T·Y·LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\009_HDPlan02.dgn Username: Date:3/7/2019 Division: HIGHWAY

Filename: ...\HIGHWAY\MSTA\010_HDPlan03.dgn Division: HIGHWAY Username: Date:3/7/2019

ROBERT E. WH...
ITEM NO. (12)
TEMP. CONST. RIGHTS = 0.06± AC.(TOWN)
TOTAL AREA = 1.4± AC.(TOWN)

JOANN K. LUMINO
MICHAEL J. TRIPP
HEATHER J. BALL
MEREDYTH J. BALL
HAMPDEN WATER DISTRICT
GREGORY V. CHOQUETTE
TOWN OF HAMPDEN SEWAGE PUMP STATION CSO STRUCTURE

STA. 25+50.00 END REHABILITATION BEGIN RECONSTRUCTION

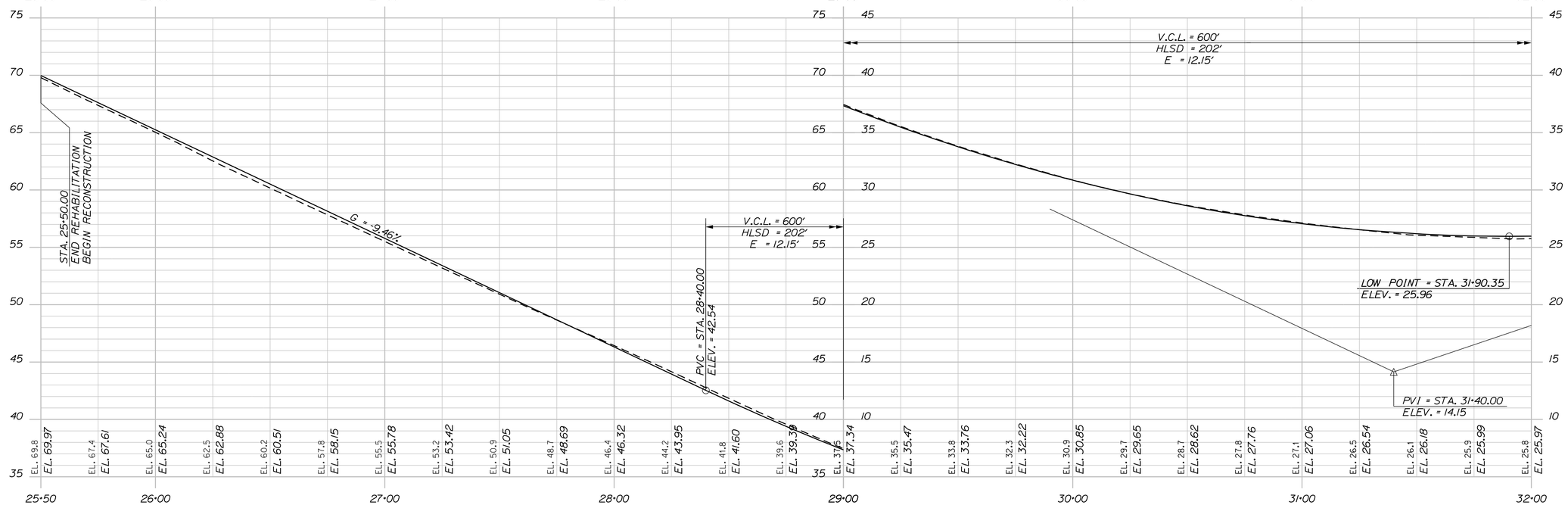
ADJUST TO GRADE (BY OTHERS)
REMOVE
REMOVE PIPE AND HEADWALLS
238/1345/11 Emera 155114
1346/12 Emera 155113
ADJUST TO GRADE (BY OTHERS)
REMOVE
GRADE TO SAVE
REMOVE
Emera 155112
REMOVE
ADJUST TO GRADE (BY OTHERS)
REMOVE AND RESET BOULDERS OUTSIDE LIMITS OF WORK
2000/15 Emera 155108
1353/14 Emera 155107
1353S Emera 155106/Private
EXISTING CB AND 36" CMP TO REMAIN
4.5' RIPRAP DOWNSPOUT
ADJUST TO GRADE (BY OTHERS)

HB-HAMP-104
HB-HAMP-105
B05
B06
B07
B10
B11

15" UD-C
12" UD-C
8" OPT. 12" UD-C
18" RCP CLASS V
36" CMP DIRECTION ONLY
U.S. ROUTE IA
Ⓔ ROUTE IA
N49°41'43.4"E
N67°26'43.7"E
SWEL
DYCL
CLL
RUS
EASEMENT

PC = STA. 27+00.88
PT = STA. 31+81.06

CURVE DATA #5
PI = 29+42.91
D = 3°41'47.4"
Δ = 17°45'00.2" Rt.
R = 1550.00'
L = 480.19'
T = 242.03'
E = 18.78'



T·Y LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1157(700)X
WIN 11577.00
HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	TSK	2/19
CHECKED-REVIEWED	SRD	2/19
DESIGN2-DETAILED2	KSD	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

P.E. NUMBER
SIGNATURE
DATE

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

SHEET NUMBER
17
OF 213

Filename: ...\HIGHWAY\MSTA\011_HDPlan04.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

HAMPDEN WATER DISTRICT

SOUADABSCOOK STREAM

SOUADABSCOOK STREAM

STATE OF ME. D.O.T.

CURVE DATA #6
PI = 36+04.70
D = 4°19'27.2"
Δ = 24°11'48.4" Lt.
R = 1325.00'
L = 559.57'
T = 284.02'
E = 30.10'

COLDBROOK RD.

N40°38'23.1"W

141+00

JEFFREY P. BESWICK
DAWN BESWICK

DAVID SIMPSON, JR.

DAVID E. SIMPSON, JR.
ITEM NO. (19)
TEMP. CONST. RIGHTS = 765± S.F.(2)
TOTAL AREA = 0.36± AC.(TOWN)

STA. 38+80.25 PT

STA. 141+00.00 MATCH EXISTING PAVEMENT LIMIT OF WORK

STA 35+92.56 U.S. ROUTE 1A = STA 140+00.00 COLDBROOK ROAD

REMOVE AND RESET BOULDERS AS DIRECTED BY THE RESIDENT

REMOVE PAVEMENT, GRADE TO DRAIN, LOAM AND SEED

REMOVE

ADJUST TO GRADE (BY OTHERS)

PC = STA. 33+20.69

20' PIPELINE EASEMENT TO HAMPDEN WATER DISTRICT BOOK 1131, PAGE 228

℄ COLDBROOK ROAD

DYCL

CLL

CLL

16 Emera 155109

135/18 Emera 155103

140'±

132'±

40'±

P.L. Flow STREAM

134/90 Emera 154157

REMOVE

SL ·42

24" OPT. III

℄ ROUTE 1A

B60

1358 Emera 154155

12" OPT. III

REMOVE

REMOVE

REMOVE

ADJUST TO GRADE (BY OTHERS)

REMOVE

24" OPT. III

24" UD-C

B13

38+00

37+00

B47

·50

B12

DYCL

SWEL

HB-HAMP-106

RC2

36+00

·25

·10

·60

·26

15" OPT. I

133/2000/20 Emera 154156

15" OPT. I

U.S. ROUTE 1A

SL

U.S. ROUTE 1A & ROUTE 9 S.H. "88"

DYCL

B08

B07

B10

B11

B09

12" UD-C

8" OPT. III

15" UD-C

32+00

33+00

34+00

35+00

N67°26'43.7"E

HB-HAMP-105

SWEL

UD-B

CLL

CLL

CLL

CLL

18" RCP CLASS III

PT = STA. 31+81.06

4.5' RIPRAP DOWNSPOUT

REMOVE

P.L.

SLOPE

STA 34+77.92 U.S. ROUTE 1A = STA 130+00.00 DUDLEY ROAD

STA 33+63.45, BEGIN BRIDGE

BRIDGE CONSTRUCTED UNDER PROJECT STP-2169(200)

STA. 34+41.57, END BRIDGE

ADJUST MH TO GRADE (BY OTHERS)

MARJORIE J. EARL

DUDLEY RD.

SUB-BASE

EASEMENT LTS.

0.09± AC. DRAIN.

℄ DUDLEY ROAD

REMOVE

250± S.F.

18" RCP CLASS III

271+00

131+00

4.5' X 7' RIPRAP APRON

TOE OF SLOPE DITCH STA. 131+23 LT. DUDLEY, ST. TO STA. 35+43 RT. S.H.-88

1055± S.F.

REMOVE

REMOVE

PLUG AND FILL WITH FLOWABLE FILL

REMOVE PAVEMENT, GRADE TO DRAIN, LOAM AND SEED.

STA 35+50.00 U.S. ROUTE 1A = STA 270+00.00 DUDLEY ROAD NORTH

ADJUST TO GRADE (BY OTHERS)

℄ DUDLEY ROAD NORTH

MARK PIERCE
DEBRA PIERCE

CORY A. RICKER

CORY A. RICKER
PARCEL NO. (20)
LAND TAKEN =
TEMP. CONST. R
TOTAL AREA =
REM. AREA =

UD-B OUTLET

21/5/6 Emera 154154

ADJUST TO GRADE (BY OTHERS)

REMOVE

124'±

76.75'

73'±

32+00 33+00 34+00 35+00 36+00 37+00 38+00 38+50

PVT = STA. 34+40.00
ELEV. = 34.38

V.C.L. = 600'
HLSD = 202'
E = 12.15'

G = 6.74%

STA. 35+50.00 U.S. ROUTE 1A = STA. 270+00.00 DUDLEY RD. NORTH

STA. 35+92.56 U.S. ROUTE 1A = STA. 140+00.00 COLDBROOK RD.

G = 6.74%

	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.	EL.
	25.8	25.9	26.1	26.5	27.2	28.3	29.4	22.2	7.8	14.8	35.0	36.4	38.2	40.0	41.8	43.5	45.2	46.8	48.4	50.1	51.8	53.5	55.2	56.9	58.5	61.9
	25.97	26.12	26.44	26.93	27.58	28.41	29.40	30.56	31.90	33.40	35.05	36.74	38.42	40.11	41.79	43.48	45.16	46.85	48.53	50.22	51.91	53.59	55.28	56.96	58.65	62.02

T·Y LIN INTERNATIONAL

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

	R. MOULTON	DATE
PROJ. MANAGER		
DESIGN-DETAIL	SRD	TSK 2/19
CHECKED-REVIEWED	SRD	KSD 2/19
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

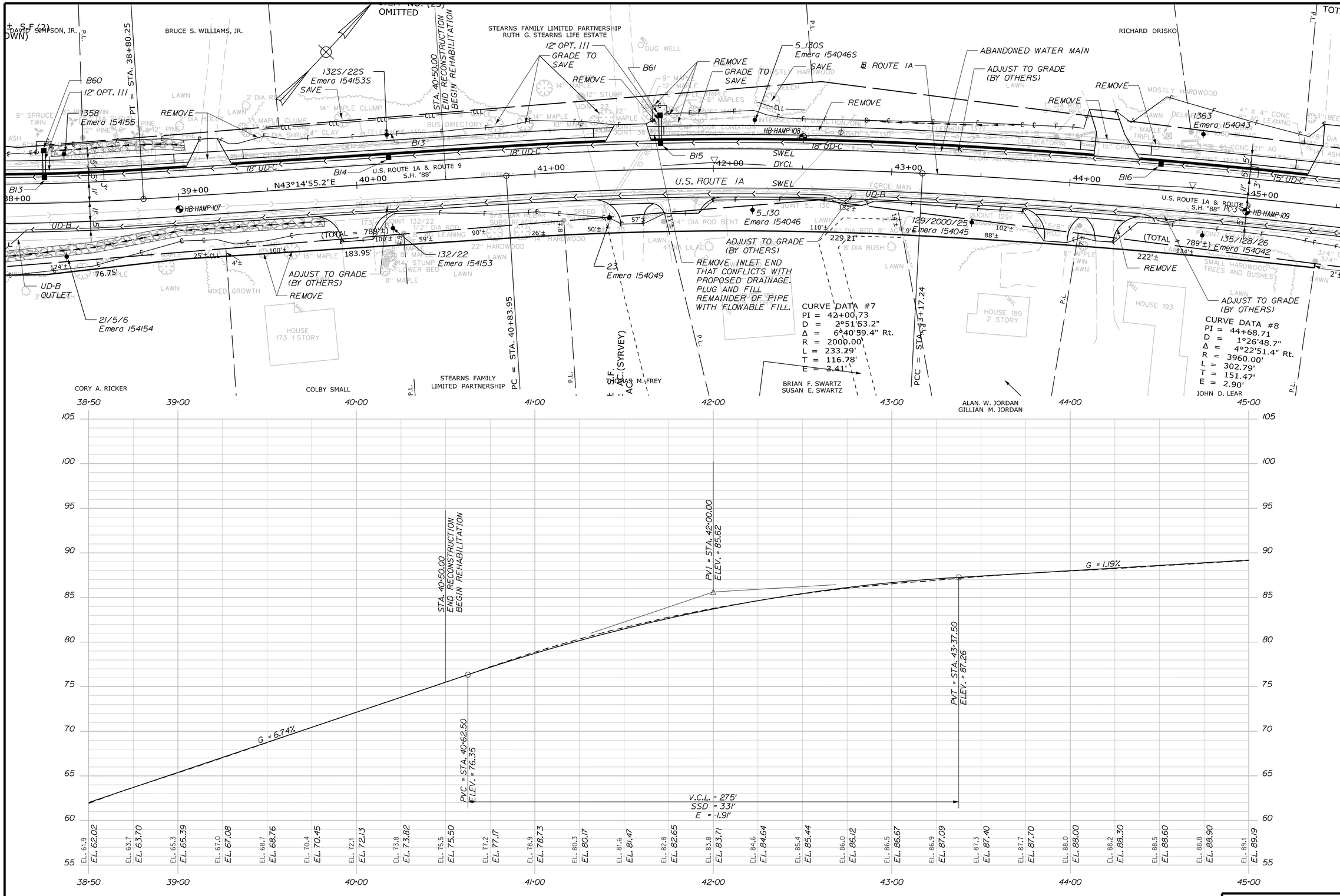
P.E. NUMBER

DATE

SHEET NUMBER

18

OF 213



Filename: ...\HIGHWAY\MSTA\012_HDPlan05.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

T-Y LIN INTERNATIONAL

SHEET NUMBER

19

OF 213

Filename: ...\HIGHWAY\MSTA\013_HDPlan06.dgn Division: HIGHWAY Username: Date:3/7/2019

DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 910± S.F.(1)
TOTAL AREA = 0.54± AC.(TOWN)

TEMP. CONST. RIGHTS = 860± S.F.(1)
TOTAL AREA = 0.75± AC.(TOWN)

TEMP. CONST. RIGHTS =830± S.F.(1)
TOTAL AREA = 1.03± AC.(TOWN)

STANLEY E. SEAN E.
ITEM NO
DRAINAG
TEMP. CO
TOTAL AR

RICHARD DRISKO
JANE H HANSON
JULIET LURO
DONALD N. GROGAN
JOAN C. GROGAN
ROBERT S. BRIGGS
DARREN TURNER
JOHN D. LEAR
KATHY ANN KIMBALL
THOMAS J. HENNESSEY
NANCY J. HANNESSEY
STEARNS FAMILY LIMITED PARTNERSHIP
GEORGES E. BERUBE

ITEM NO. (37)
OMITTED

ITEM NO. (34)

REMOVE INLET END THAT CONFLICTS WITH PROPOSED DRAINAGE. PLUG AND FILL REMAINDER OF PIPE WITH FLOWABLE FILL.

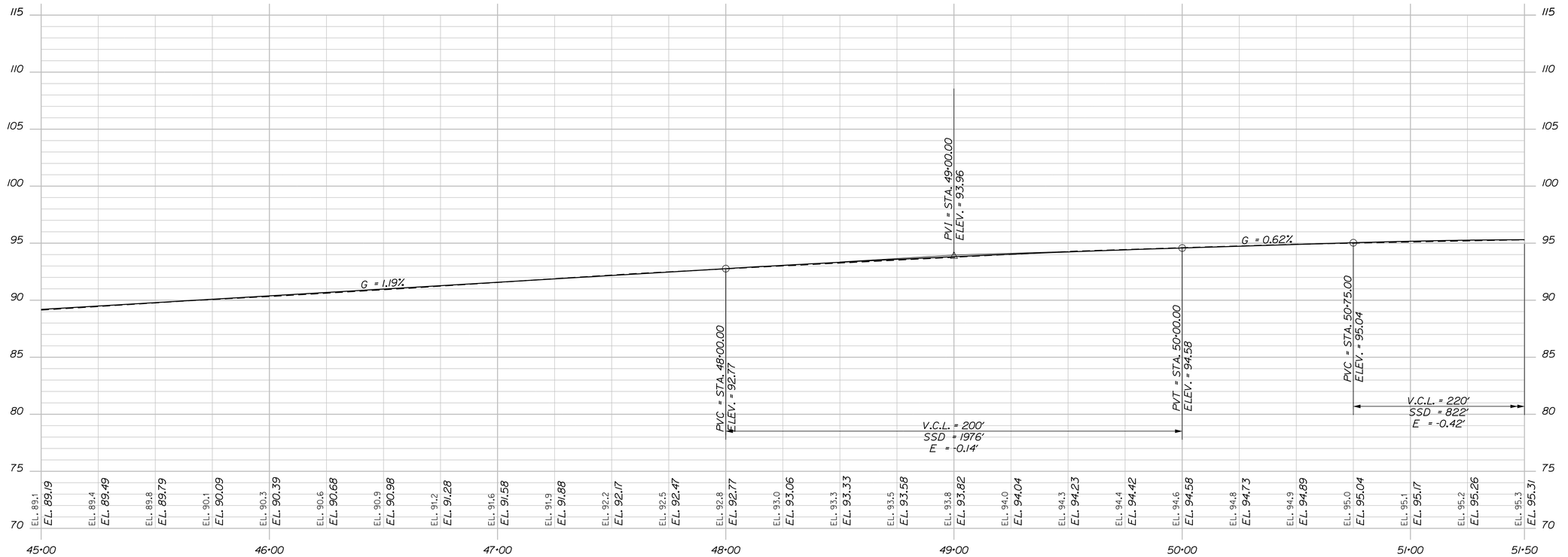
INLET DRAINAGE STRUCTURE STA. 46+08± LT.
INLET DRAINAGE STRUCTURE STA. 47+61 LT.
INLET DRAINAGE STRUCTURE STA. 48+50 LT.
INLET DRAINAGE STRUCTURE STA. 50+50 LT.
INLET DRA STRUCT STA. 51+

15" OPT. III
12" OPT. III
GRADE TO SAVE
REMOVE
ABANDONED WATER MAIN
B48
B62
B63
B64
B65
1363 Emera 154043
1365 Emera 154040
1366 Emera 154037
135/128/26 Emera 154042
127/27 Emera 154041
126/28 Emera 154041
5/125/29 Emera 154038
124 Emera 154035
123/31 Emera 154034
B16
B17
B18
B19
B20
B21
B22
15" UD-C
12" UD-C
UD-B
HB-HAMP-109
HB-HAMP-110
SWEL
DYCL
ADJUST TO GRADE (BY OTHERS)

U.S. ROUTE 1A & ROUTE 9 S.H. "88" PC-3
U.S. ROUTE 1A
U.S. ROUTE 1A & ROUTE 9 S.H. "88"
N54°18'46.0"E
45+00
46+00
47+00
48+00
49+00
50+00
51+00

(TOTAL = 789'±)
134'±
222'±
2'±
PT = STA. 46+20.03
P.L.

CURVE DATA #8
PI = 44+68.71
D = 1°26'48.7"
Δ = 4°22'51.4" Rt.
R = 3960.00'
L = 302.79'
T = 151.47'
E = 2.90'



T·Y·LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1157(700)X
WIN 11577.00
HIGHWAY PLANS

	SIGNATURE	P.E. NUMBER	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	SRD		
CHECKED-REVIEWED	SRD		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

	BY	DATE
	TSK	2/19
	KSD	2/19

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

SHEET NUMBER
20
OF 213

Filename: ...\HIGHWAY\MSTA\014_HDPlan07.dgn Division: HIGHWAY Username: Date:3/7/2019

DARREN TURNER

YVONNE M. LAMBERT
ITEM NO. (41)
TEMP. CONST. RIGHTS =
70± S.F.(1)
TOTAL AREA = 0.45± AC.(TOWN)

YVONNE LAMBERT

LISA A. LARSON
TIMOTHY F. LARSON

DENNIS DODGE
CAROLYN DODGE

TEMP. CONST. RIGHTS =
455± S.F.(1)
0.01± AC.(TOWN)

ERIC A. OLSON
ITEM NO. (49)
TEMP. CONST. RIGHTS
TOTAL AREA = 2± AC

MARTHA K. GORDON LIVING TRUST

NO POR 85?
ASSUMING THIS
BELONGS TO
LOT 86 FOR
DRIVEWAY??

NO POR 85?
ASSUMING THIS
BELONGS TO
LOT 86 FOR
DRIVEWAY??

GEORGES E. BERUBE

RODERICK L. FOGG
MARILYN F. FOGG

JACK C. HINDS

STEPHEN P. JOHNSON

THOMAS L. BOWCOCK
DEBORAH A. BOWCOCK

RICHARD LAMBERT

U.S. ROUTE 1A

S.H. "88

℄ SUNSET AVE.

℄ FOXGLOVE DRIVE

℄ ROUTE 1A

SUNSET AVE.

FOXGLOVE DR.

N38°35'52.0"W

N54°18'46.0"E

S55°31'52.3"E

151+00

161+00

INLET DRAINAGE STRUCTURE STA. 51+80 LT.

INLET DRAINAGE STRUCTURE STA. 54+72± LT.

INLET DRAINAGE STRUCTURE STA. 56+15± LT.

INLET DRAINAGE STRUCTURE STA. 57+00 LT.

OUTLET DRAINAGE STRUCTURES STA. 54+45 TO STA. 54+75 RT.

OUTLET DRAINAGE STRUCTURES STA. 55+85 TO STA. 56+20 RT.

TOE OF SLOPE DITCH STA. 55+75 TO STA. 56+60 LT.

STA. 150+50.00
MATCH EXISTING PAVEMENT
LIMIT OF WORK

STA. 160+80.00
MATCH EXISTING
PAVEMENT
LIMIT OF WORK

STA 55+45.02 U.S. ROUTE 1A =
STA 160+00.00 FOXGLOVE DRIVE

STA 55+05.62 U.S. ROUTE 1A =
STA 150+00.00 SUNSET AVENUE

ABANDONED WATER MAIN

GRADE TO SAVE

GRADE TO SAVE

REMOVE

REMOVE

REMOVE

REMOVE

REMOVE STUMP

REMOVE GRANITE

REMOVE AND RESET AS DIRECTED BY RESIDENT

REMOVE AND RESET FENCE / SIGN

REMOVE AND RESET FENCE / SIGN

ADJUST TO GRADE (BY OTHERS)

ADJUST TO GRADE (BY OTHERS)

ADJUST TO GRADE (BY OTHERS)

ADJUST TO GRADE (BY OTHERS)

ADJUST TO GRADE (BY OTHERS)

PLUG AND FILL WITH FLOWABLE FILL

4.5' X 7' RIPRAP APRON

6' X 9' RIPRAP APRON

B65 B66 B53 B54 B67

B22 B23 B24 B25 B26 B27 B28

1368
Emera 154033

Emera 154031

238/1370/P99
Emera 154027

123/31
Emera 154034

122/32
Emera 154032

121/33
Emera 154030

5-120/34
Emera 154028

119/2000/35
Emera 154026

118/36
Emera 154024

12" OPT. III

8" OPT. III

12" UD-C

15" UD-C

24" UD-C

UD-B

HB-HAMP-II

HB-HAMP-III SWEL

SWEL DYCL

SL ·28

·70 ·40 ·85 ·75 ·95 ·30

270± S.F.

245± S.F.

315± S.F.

135± S.F.

+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00

51·50 52·00 53·00 54·00 55·00 56·00 57·00 58·00

HOUSE 227
1.5 STORY

HOUSE 245
1 STORY

HOUSE 1 STORY

HIGH POINT = STA. 51+64.67
ELEV. = 95.32

PVI = STA. 51+85.00
ELEV. = 95.72

PVT = STA. 52+95.00
ELEV. = 94.73

PVC = STA. 54+15.00
ELEV. = 93.66

LOW POINT = STA. 55+27.84
ELEV. = 93.15

PVI = STA. 55+75.00
ELEV. = 92.22

PVT = STA. 57+35.00
ELEV. = 94.86

G = -0.90%

G = 1.65%

V.C.L. = 220'
SSD = 822'
E = -0.42'

V.C.L. = 320'
HLSD = 764'
E = 1.02'

EL. 95.3	EL. 95.3	EL. 95.3	EL. 95.2	EL. 95.1	EL. 94.9	EL. 94.7	EL. 94.5	EL. 94.3	EL. 94.0	EL. 93.8	EL. 93.6	EL. 93.4	EL. 93.3	EL. 93.2	EL. 93.2	EL. 93.2	EL. 93.4	EL. 93.6	EL. 93.8	EL. 94.0	EL. 94.4	EL. 94.8	EL. 95.2	EL. 95.5	EL. 95.9
EL. 95.31	EL. 95.31	EL. 95.28	EL. 95.19	EL. 95.07	EL. 94.90	EL. 94.69	EL. 94.46	EL. 94.24	EL. 94.02	EL. 93.79	EL. 93.57	EL. 93.39	EL. 93.26	EL. 93.18	EL. 93.15	EL. 93.17	EL. 93.24	EL. 93.36	EL. 93.53	EL. 93.74	EL. 94.01	EL. 94.33	EL. 94.70	EL. 95.10	EL. 95.52	EL. 95.93

115 110 105 100 95 90 85 80 75

T·Y·LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

			SIGNATURE	P.E. NUMBER
				DATE

			DATE
PROJ. MANAGER	R. MOULTON	BY	
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

SHEET NUMBER

21

OF 213

ITEM NO. (49)
TEMP. CONST. RIGHTS = 560± S.F.(2)
TOTAL AREA = 2± AC.(OWNER)

DON REYNOLDS
PATRICIA REYNOLDS

ASSUMING THIS BELONGS TO LOT 86 TERM DRIVEWAY

DANIEL FLAGG

GARY & BARBARA FARREN (TRUST)

TOWN OF HAMPDEN

GARY FARREN
BARBARA FARREN

COMMUNITY CHURCH OF OPEN DOOR

REMOVE STUMP
REMOVE
REMOVE GRANITE
B67
12" OPT. III
24" UD-C
B28
SWEL
DYCL
58+00
59+00
60+00
61+00
62+00
63+00
64+00
N54°18'46.0"E
U.S. ROUTE 1A & ROUTE 9
S.H. "88"
U.S. ROUTE IA
118/36
Emera 154024
117/37
Emera 154023
118/38
Emera 154022
HB-HAMP-113
PC-4
ADJUST TO GRADE (BY OTHERS)
GARY FARREN TRUSTEE
BARBARA FARREN
ABANDONED WATER MAIN
REMOVE
12" OPT. III
B68
18" UD-C
B29
FORCE MAIN - APPROXIMATE LOCATION
UD-B
INLET DRAINAGE STRUCTURE STA. 61+75 LT.
TOE OF SLOPE DITCH STA. 61+75 TO STA. 62+00 LT.
EASE. LTS. 2803 S.F.
B55
B30
W11-2
W16-7pL
W16-7pL
W11-2
GRADE TO SAVE
MATCH EXIST SIDEWALK
STA. 170+55.00 MATCH EXISTING PAVEMENT LIMIT OF WORK
PC = STA. 61+54.81
CURVE DATA #9
PI = 62+40.67
D = 0°13'45.1"
Δ = 0°23'36.7" Rt.
R = 25000.00'
L = 171.70'
T = 85.85'
E = 0.15'
PT = STA. 63+26.52
GRADE TO DRAIN
STA 63+34.83 U.S. ROUTE IA = STA 170+00.00 LIBRARY ROAD
SEE CELLAR DRAIN DETAIL
ADJUST TO GRADE (BY OTHERS)
REMOVE
B69
12" OPT. III
18" UD-C
B31
N54°42'22.7"E
238/1375
SWEL
DYCL
114/2000/40
Emera 154018
HB-HAMP-114
5/115/39
Emera 154020
113/41
Emera 154016
SL +27
S50°56'15.8"E
CLL
LIBRARY RD
MOSTLY HARDWOODS
PC = STA. 170+63.18
℄ LIBRARY ROAD
PT = STA. 170+97.40
CURVE DATA #1
PI = 170+80.30
D = 11°27'33.0"
Δ = 3°55'15.4" Lt.
R = 500.00'
L = 34.22'
T = 17.12'
E = 0.29'
S54°51'31.2"E
171+00
LIBRARY RD.
BRIAN A. WENTWORTH
PEGGY A. WENTWORTH
THOMAS L. BOWCOCK
JOANNE C. BOWCOCK
MELISSA A. NORRIS
BRADLEY D. SLOAT
SLOAT RUSH MONTGOMERY
WAYNE A. SIMPSON
BILLY G. MCBEE
JENNIFER A. MCBEE
HOUSE 1 STORY
HOUSE 255 1 STORY
HOUSE 259 1 STORY

V.C.L. = 270'
HLSD = 1750'
E = 0.68'
PVC = STA. 59+40.00
ELEV. = 98.23
PVI = STA. 60+75.00
ELEV. = 100.46
PVT = STA. 62+10.00
ELEV. = 105.41
G = 1.65%
G = 3.67%
STA. 63+34.83 U.S. ROUTE IA = STA. 170+00.00 LIBRARY RD.

EL. 95.9	EL. 96.4	EL. 96.8	EL. 97.2	EL. 97.6	EL. 98.0	EL. 98.4	EL. 98.9	EL. 99.3	EL. 99.9	EL. 100.5	EL. 101.1	EL. 101.8	EL. 102.5	EL. 103.3	EL. 104.2	EL. 105.1	EL. 106.0	EL. 106.9	EL. 107.8	EL. 108.7	EL. 109.6	EL. 110.5	EL. 111.5	EL. 112.4	EL. 113.3	EL. 114.2
EL. 95.93	EL. 96.34	EL. 96.75	EL. 97.16	EL. 97.57	EL. 97.99	EL. 98.40	EL. 98.86	EL. 99.36	EL. 99.90	EL. 100.50	EL. 101.14	EL. 101.83	EL. 102.56	EL. 103.34	EL. 104.17	EL. 105.04	EL. 105.96	EL. 106.87	EL. 107.79	EL. 108.71	EL. 109.62	EL. 110.54	EL. 111.46	EL. 112.37	EL. 113.29	EL. 114.21

T·Y·LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1157(700)X
WIN 11577.00
HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	SRD	2/19
CHECKED-REVIEWED	SRD	2/19
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

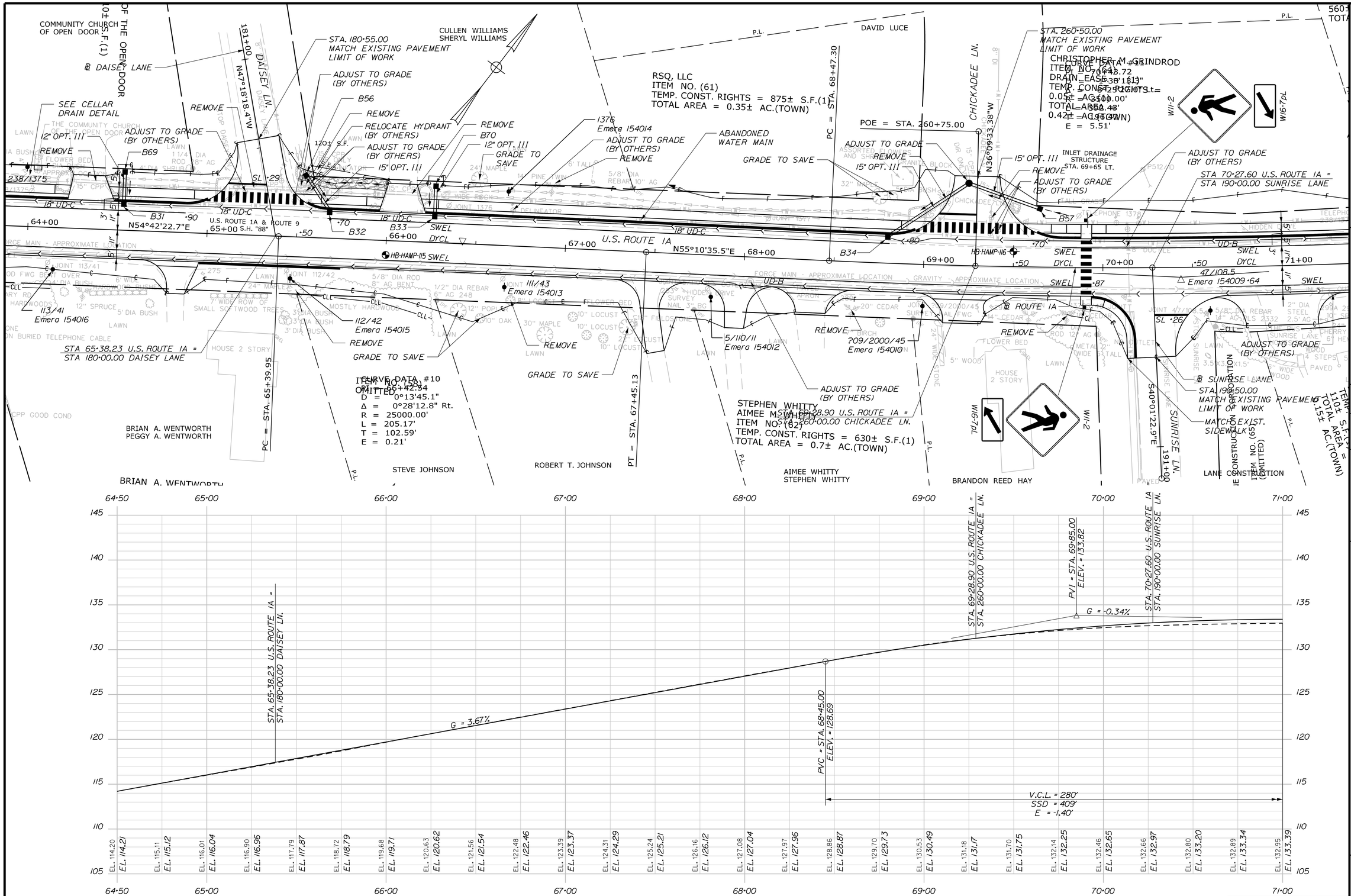
P.E. NUMBER
SIGNATURE
DATE

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

SHEET NUMBER
22
OF 213

Filename: ...\HIGHWAY\MSTA\015_HDPlan08.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

	DATE	BY
P.E. NUMBER		
DATE		
SIGNATURE	2/19	TSK
	2/19	KSD

PROJ. MANAGER	R. MOULTON
DESIGN-DETAILED	SRD
CHECKED-REVIEWED	SRD
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

SHEET NUMBER
23
OF 213

T·Y·LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\016_HDPlan09.dgn Division: HIGHWAY Username: Date:3/7/2019

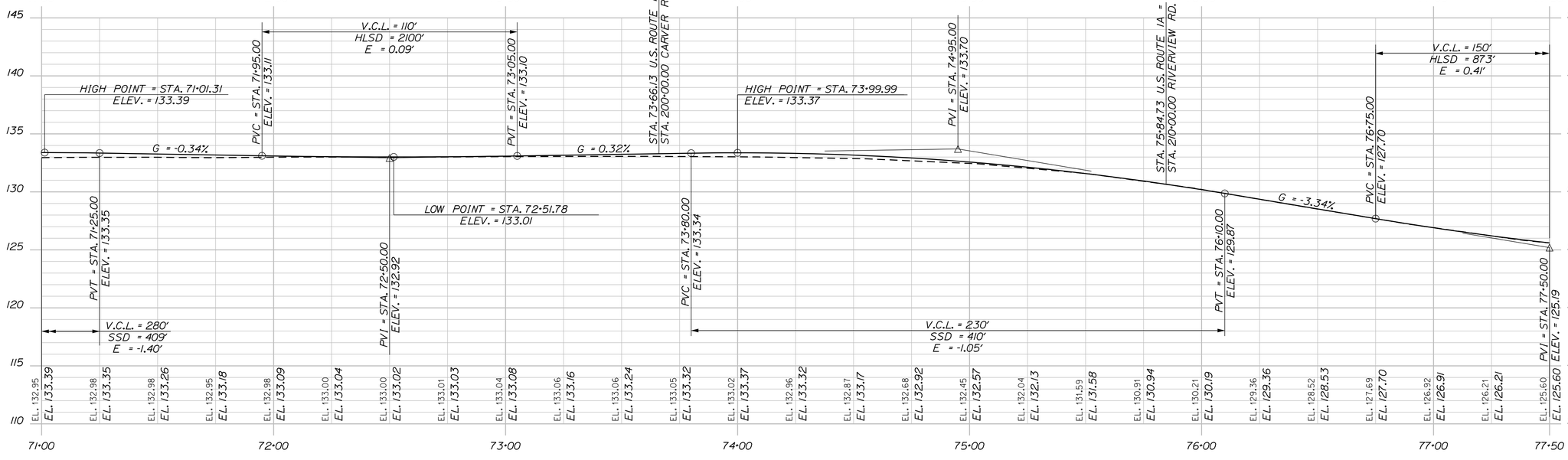
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DAVID LUCE
ROBERT E. YOST
CHRISTOPHER M. GRINDROD
ITEM NO. (64)
DRAIN. EASE. = (1)
TEMP. CONST. RIGHTS = 0.05± AC.(1)
TOTAL AREA = 0.42± AC.(TOWN)
DENISE DINSMORE
LYNDA M. HOLMES
MARK A. HOLMES
ITEM NO. (72)
TEMP. CONST. RIGHTS = 970± S.F.(1)
TOTAL AREA = 0.35± AC.(TOWN)
SANDRA L. SOUTHERLAND
JOHN D. DICKINSON
DAVID P. BRICKEL
TOTAL AREA = 2.65± AC.(TOWN)

CURVE DATA #11
PI = 70+43.72
D = 1°38'13.3"
Δ = 6°25'27.0" Lt.
R = 3500.00'
L = 392.43'
T = 196.42'
E = 5.51'

PT = STA. 72+39.73

INLET DRAINAGE STRUCTURE STA. 72+52 LT.
INLET DRAINAGE STRUCTURE STA. 73+47 LT.
OUTLET DRAINAGE STRUCTURE STA. 73+53± RT.
REMOVE CULVERT & HEADWALLS
12" OPT. III
B71
B72
238/1380 Emera 154003
B82
B83
B35
B36
ADJUST TO GRADE (BY OTHERS)
REMOVE
STA 75+84.73 U.S. ROUTE 1A = STA 210+00.00 RIVERVIEW ROAD
STA 73+66.13 U.S. ROUTE 1A = STA 200+00.00 CARVER ROAD
GRADE TO SAVE
DO NOT CLEAR BEYOND TOE OF FILL SLOPE
ABANDONED WATER MAIN
1381 Emera 154875
1382 Emera 154871
℄ ROUTE 1A
U.S. ROUTE 1A
U.S. ROUTE 1A & ROUTE 9
S.H. "88"
N48°45'08.4"E
S49°42'09.7"E
S52°49'52.5"E
106.5/50 Emera 154002
106/51 Emera 154001
104/53 1382 Emera 154872
107/49 Emera 154007
408/48 Emera 154008
Emera 154873
Emera 154874
71+00
72+00
73+00
74+00
75+00
76+00
77+00
SWEL
DYCL
HB-HAMP-117
HB-HAMP-118
12" UD-C
15" UD-C
UD-B
18" RCP CLASS III
L.O.W.P.
SL ·27
·60
·85
·45
·05
·75
·10
·25
INSTALL RIPRAP AROUND EXIST. CB
FILL OVER RR TIES
REMOVE MAPLE
REMOVE HARDWOODS SOFTWOODS TO REMAIN
℄ RIVERVIEW ROAD
℄ CARVER ROAD
CARVER RD.
RIVERVIEW RD.
201+00
211+00
STA. 200+56.37
CURVE DATA #1
PI = 200+87.50
D = 7°38'22.0"
Δ = 4°45'11.8" Lt.
R = 750.00'
L = 62.22'
T = 31.13'
E = 0.65'
PT = STA. 201+18.59
STA. 201+30.00 MATCH EXISTING PAVEMENT LIMIT OF WORK
STA. 210+50.00 MATCH EXISTING PAVEMENT LIMIT OF WORK
71'±
69'±
ADJUST TO GRADE (BY OTHERS)
ANGELA J. BURBINE
MICHAEL R. BURBINE
TAMMY L. YOUNG
DANIEL L. CURTIS
PARCEL NO. (75)
EUGENE C. BUCK
SANDRA K. KAPPES-BUCK
ARNOLD W. JOSLYN
OPAL J. JOSLYN
CHRIS PERRY
ITEM NO. (70)
DRAINAGE EASE. = 711
RESIDENTIAL PROPERTIES, LLC
TEMP. EASEMENT
S54°27'21.4"E
NATE WICKLOW
ITEM NO. (67)
TEMP. CONST. RIGHTS = 745± S.F.(1)
TOTAL AREA = 0.2± AC.(TOWN)
LANE CONSTRUCTION
BARBARA J. ELIN
RON HALOG
ITEM NO. (66)
TEMP. CONST. RIGHTS = 110± S.F.(1)
TOTAL AREA = 0.15± AC.(TOWN)
THE LANE CONST.
ITEM NO. (OMITTED)
5/8" DIA REBAR 22" AG PLS 2220
5/8" DIA REBAR 20" AG PLS 2220



	DATE	BY	SIGNATURE
PROJ. MANAGER		R. MOULTON	
DESIGN-DETAILED	2/19	TSK	
CHECKED-REVIEWED	2/19	KSD	
DESIGN2-DETAILED2		SRD	
DESIGN3-DETAILED3		SRD	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

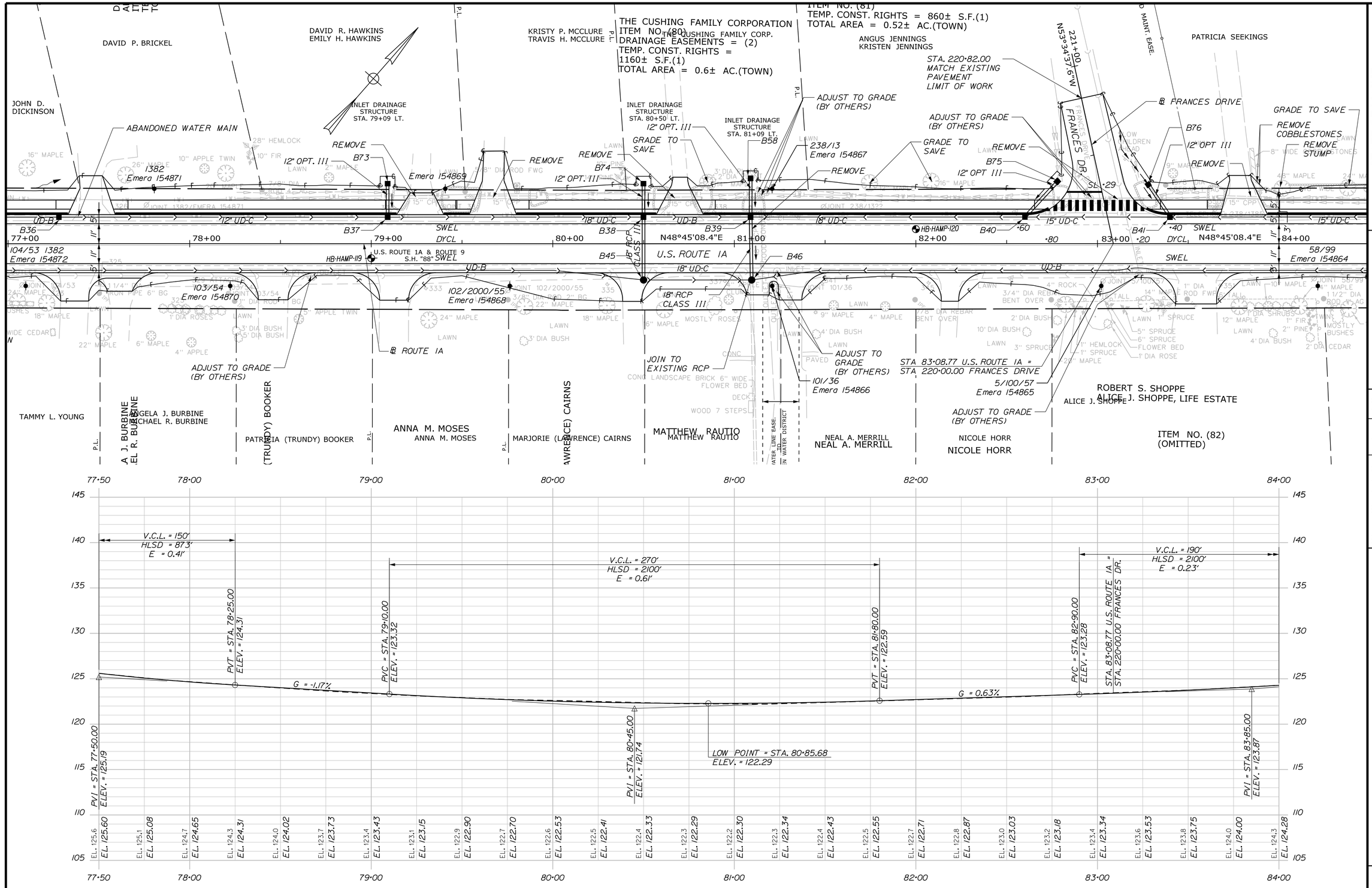
DATE

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

TYLIN INTERNATIONAL

SHEET NUMBER
24
OF 213



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

P.E. NUMBER			
DATE			
SIGNATURE			

			DATE
PROJ. MANAGER	R. MOULTON	BY	
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

SHEET NUMBER

25

OF 213

T·Y·LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\018_HDPlan11.dgn Division: HIGHWAY Username: Date:3/7/2019

TEMP. CONST. RIGHTS = 1260± S.F.(1)
TOTAL AREA = 1± AC.(TOWN)

PATRICIA SEEKINGS

ELIZABETH L. BOUDREAU
ITEM NO. (84)
TEMP. CONST. RIGHTS = 960± S.F.(1)
TOTAL AREA = 0.8± AC.(TOWN)

ELIZABETH L. BOUDREAU

TEMP. CONST. RIGHTS = 480± S.F.(1)
TOTAL AREA = 1.9± AC.(TOWN)

GREGORY J. URBAN
JULIE L. URBAN

GIDGET WALSH

GIDGET WALSH
ITEM NO. (87)
TEMP. CONST. RIGHTS = 310± S.F.(2)
TOTAL AREA = 1± AC.(TOWN)

DALE M. WORSTER

NICHOLAS A. OLSON
ITEM NO. (88)
TEMP. CONST. RIGHTS = 510± S.F.(1)
TOTAL AREA = 0.67± AC.(TOWN)

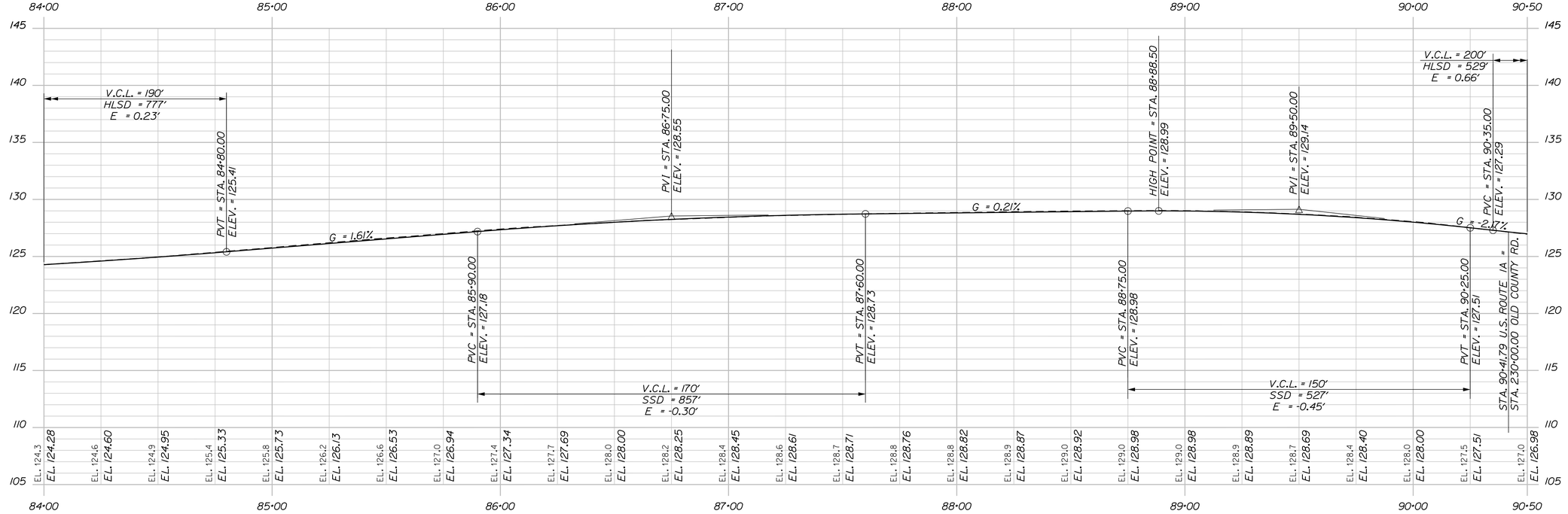
JUDITH A. SMITH

REMOVE & RESET FENCE
REMOVE COBBLESTONES
REMOVE STUMP
GRADE TO SAVE
REMOVE
ADJUST TO GRADE (BY OTHERS)
REMOVE
GRADE TO SAVE
1386 Emera 154863
ABANDONED WATER MAIN
REMOVE
REMOVE &STACK EXIST. FENCE
REMOVE
ADJUST TO GRADE (BY OTHERS)
REMOVE
B77
12" OPT. III
B79
380 CONST Emera
LIMITS
CONST.
CCL
23/1088 Emera 154859
12" OPT. III
B78
15" UD-C
SWEL
DYCL
B42
UD-B
B43
N48°45'08.4"E
84+00
85+00
N48°45'08.4"E
86+00
U.S. ROUTE IA
87+00
88+00
89+00 POB =: STA. 230+00.00
90+00
58/99 Emera 154864 SWEL
PC-6
HB-HAMP-121
U.S. ROUTE 1A & ROUTE 9 S.H. "88"
HB-HAMP-122
98/59 Emera 154862
2000/60
18" RCP CLASS III
96/61 Emera 154858
REMOVE
ROUTE IA
UD-B OUTLET
ADJUST TO GRADE (BY OTHERS)
GRADE TO SAVE
OUTLET DRAINAGE STRUCTURES STA. 87+30 TO STA. 87+55 RT.
4.5' X 7' RIPRAP APRON
ADJUST TO GRADE (BY OTHERS)
ADJUST TO GRADE (BY OTHERS)
OLD COUNTY RD.
PC
PT
SIS-25
N55°02'06.7"E
N34°57'53.3"W
12" UD-C
UD-B
PC = STA. 87+05.47
PT = STA. 89+90.57

CURVE DATA #12
PI = 88+48.16
D = 2°12'13.3"
Δ = 6°16'58.3" Rt.
R = 2600.00'
L = 285.11'
T = 142.70'
E = 3.91'

IFE ESTATE
NO. (82)
TED) ALICE J. SHOPPE
ADAM G. THIBODEAU
JULIE IRICK
MICHELLE A. LOCKWOOD & WADDELL TWADDELL
TOTAL AREA = 0.45± AC.(TOWN)

ROUTE IA = STA. 230+00.00 OLD COUNTY ROAD
ITEM NO. (89)
TEMP. CONST. RIGHTS = 510± S.F.(1)



T·Y·LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1157(700)X
WIN 11577.00
HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	SRD	DATE	BY
CHECKED-REVIEWED	SRD	2/19	TSK
DESIGN2-DETAILED2	SRD	2/19	KSD
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

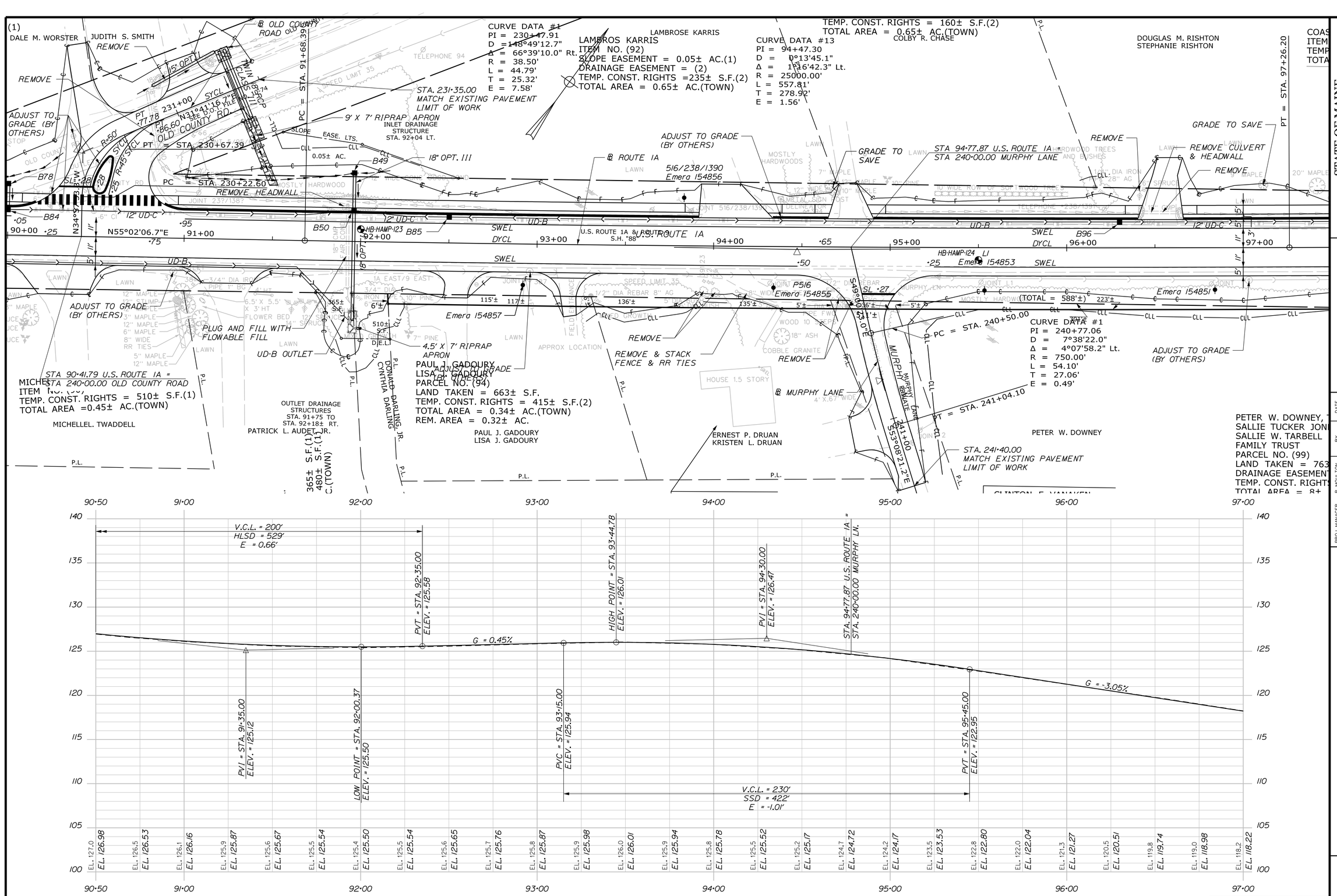
P.E. NUMBER
SIGNATURE
DATE

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

SHEET NUMBER
26
OF 213

Date:3/7/2019
Username:
Division: HIGHWAY
Filename: ...\HIGHWAY\MSTA\019_HDPlan12.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

	DATE	BY
	2/19	TSK
	2/19	KSD

SIGNATURE

P.E. NUMBER

DATE

	R. MOULTON
PROJ. MANAGER	
DESIGN-DETAILED	SRD
CHECKED-REVIEWED	SRD
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

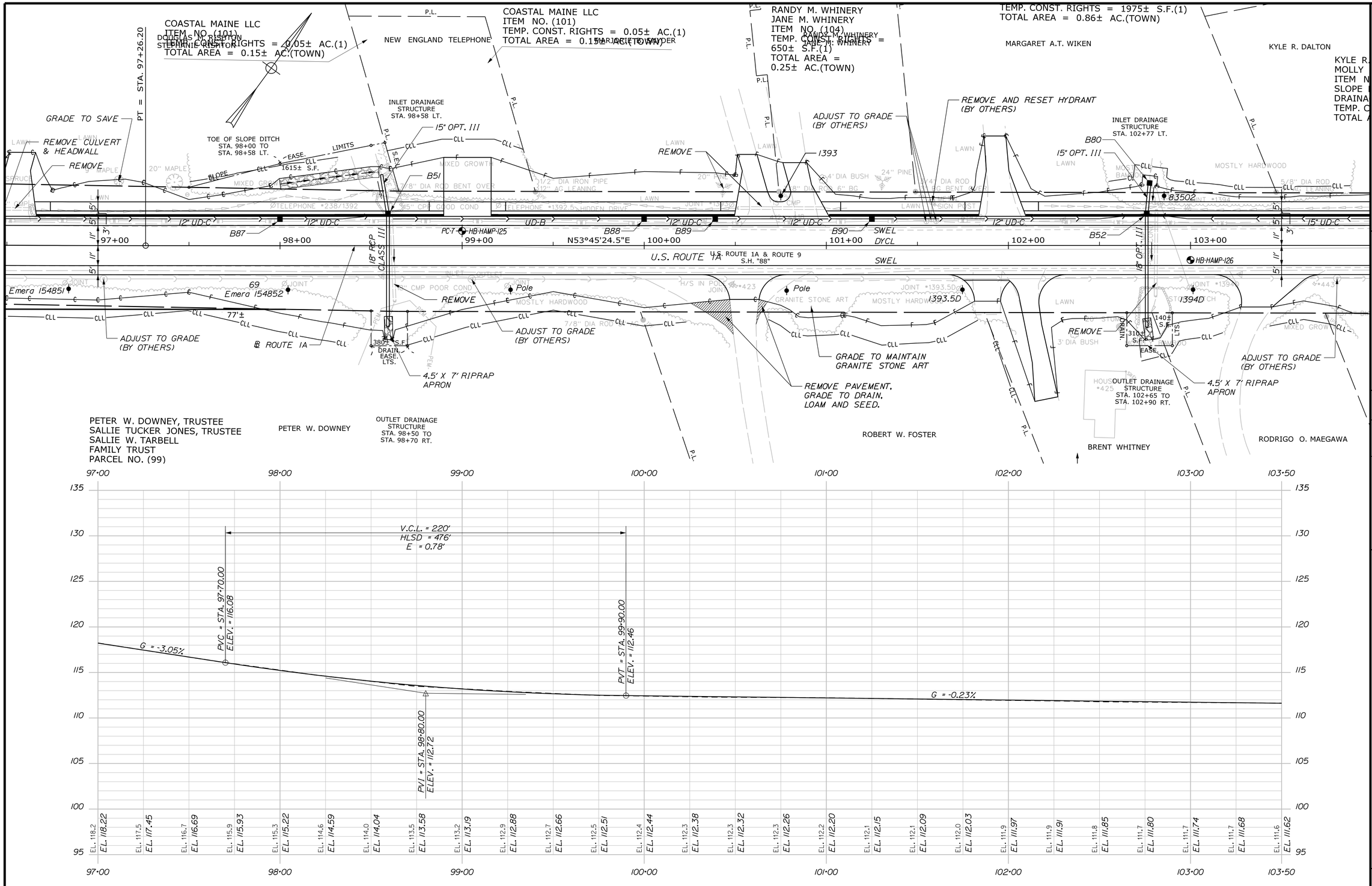
SHEET NUMBER

27

OF 213

T·Y·LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\020_HDPlan13.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

	BY	DATE
DESIGN-DETAILED	TSK	2/19
CHECKED-REVIEWED	KSD	2/19
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER R. MOULTON

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

SHEET NUMBER

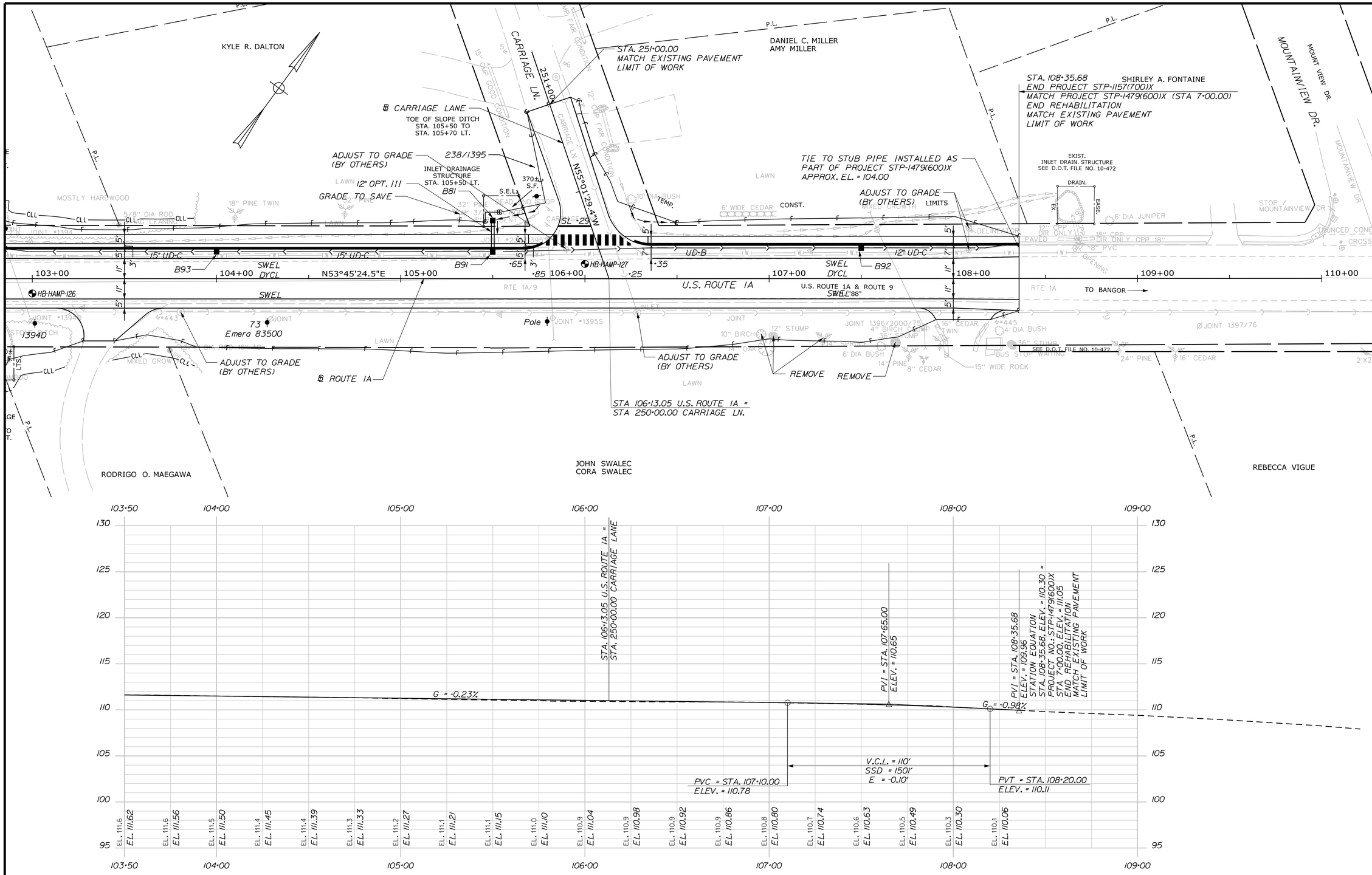
28

OF 213

T·Y·LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\021_HDPlan14.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\HIGHWAY\MSTA\022_HDPlan15.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

P.E. NUMBER			
SIGNATURE			
DATE			

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	SRD	BY	DATE
CHECKED-REVIEWED	SRD	TSK	2/19
DESIGN2-DETAILED2		KSD	2/19
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HAMPDEN
US ROUTE 1A

PLAN & PROFILE

T·Y·LIN INTERNATIONAL

SHEET NUMBER

29

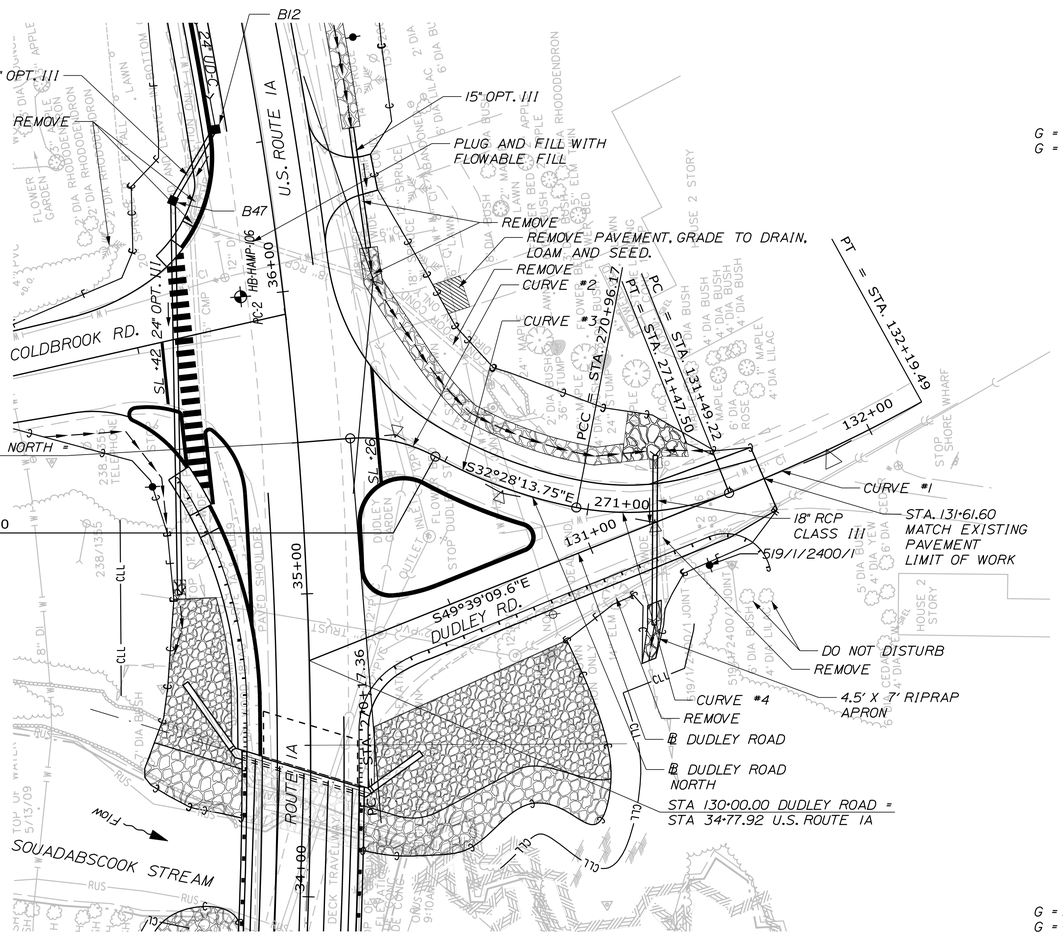
OF 213

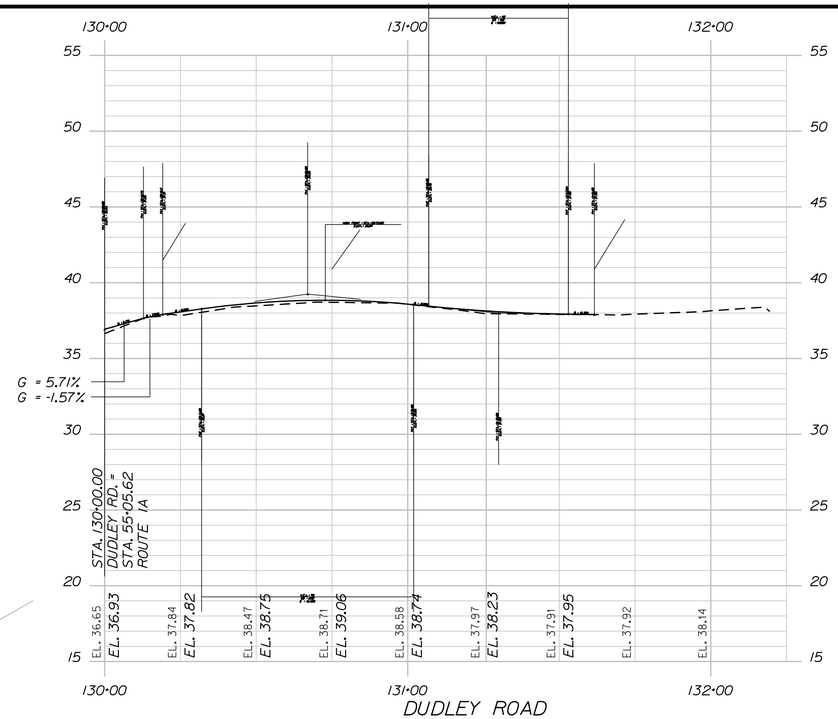
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E = 1.08'

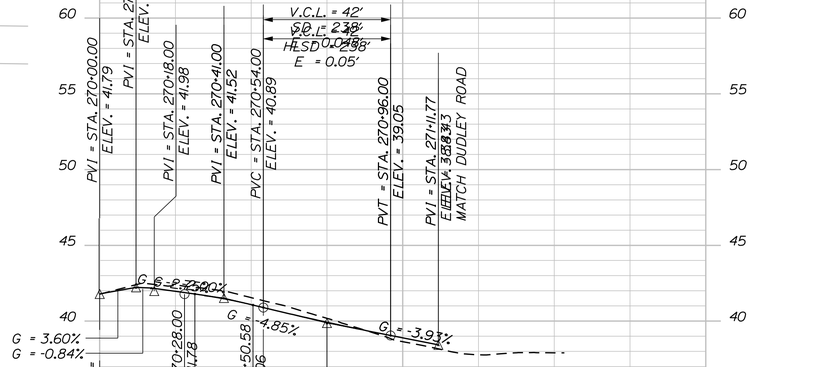
CURVE DATA #2
PI = 270+32.36
D =114°35'29.6"
Δ = 33°23'37.8" Rt.
R = 50.00'
L = 29.14'
T = 15.00'
E = 2.20'

CURVE DATA #3
PI = 270+71.54
D = 36°02'06.3"
Δ = 17°53'44.1" Lt.
R = 159.00'
L = 49.66'
T = 25.03'
E = 1.96'

CURVE DATA #4
PI = 271+22.55
D = 63°39'43.1"
Δ = 32°40'49.5" Lt.
R = 90.00'
L = 51.33'
T = 26.39'
E = 3.79'







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
DUDLEY ROAD

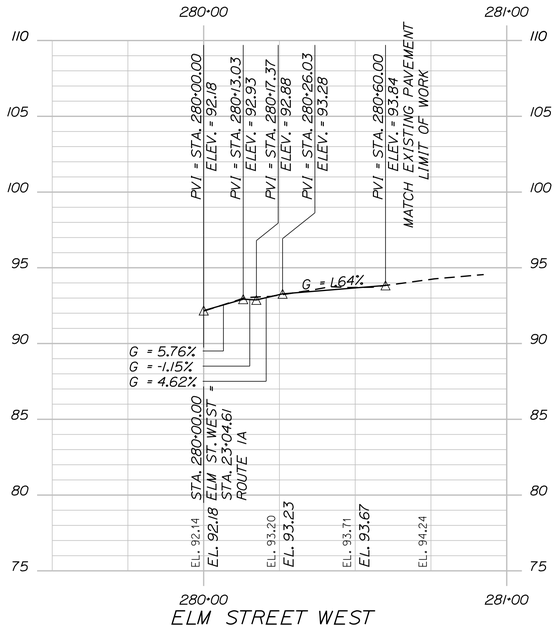
PLAN & PROFILE

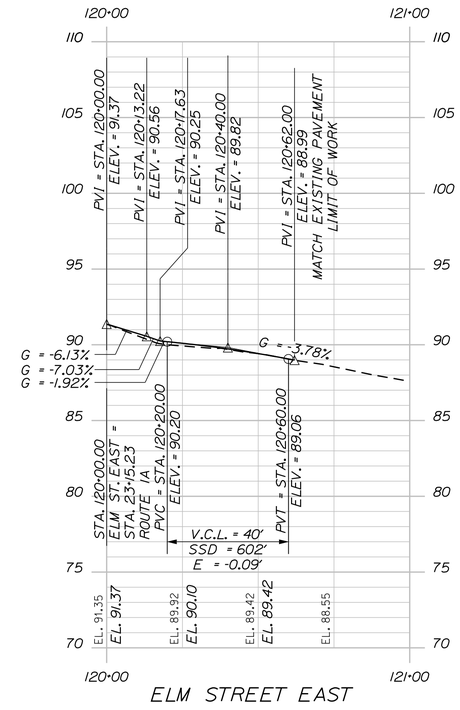
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OF 213

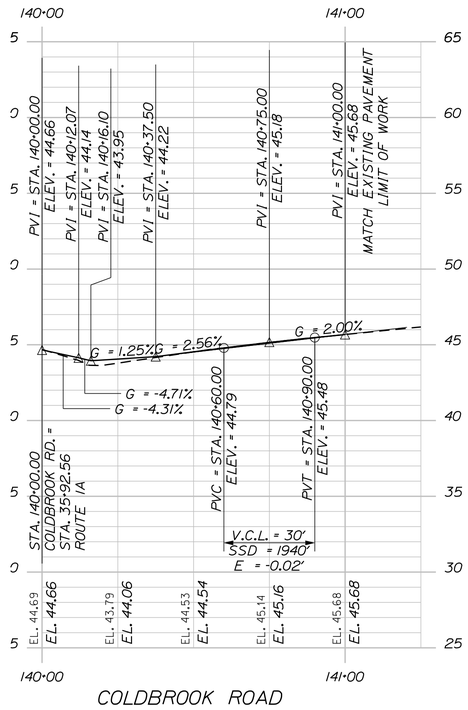
TYLIN INTERNATIONAL

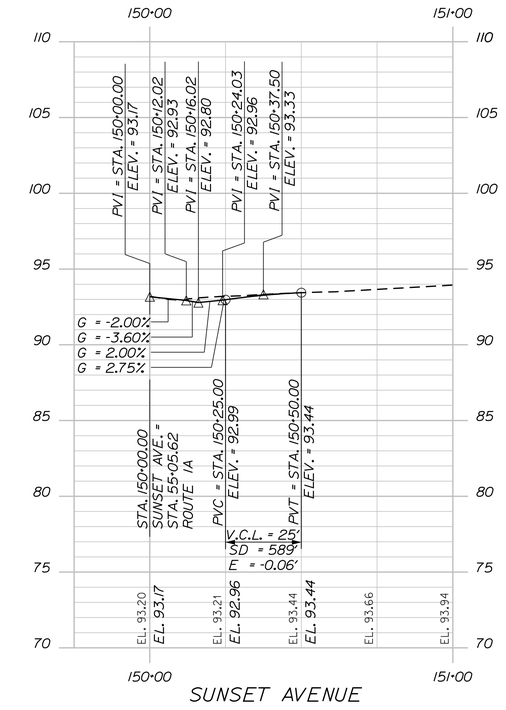
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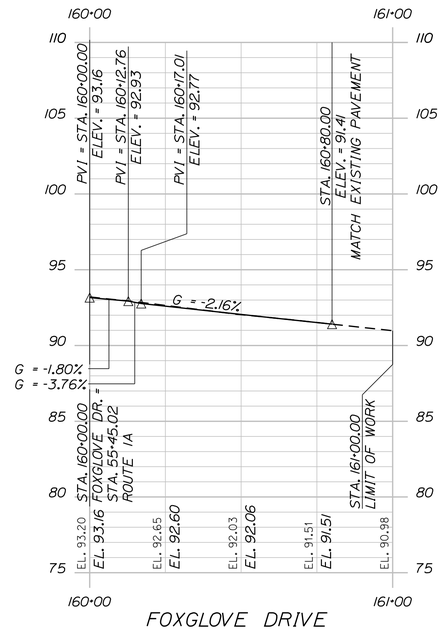
HAMPDEN WATER DISTRICT

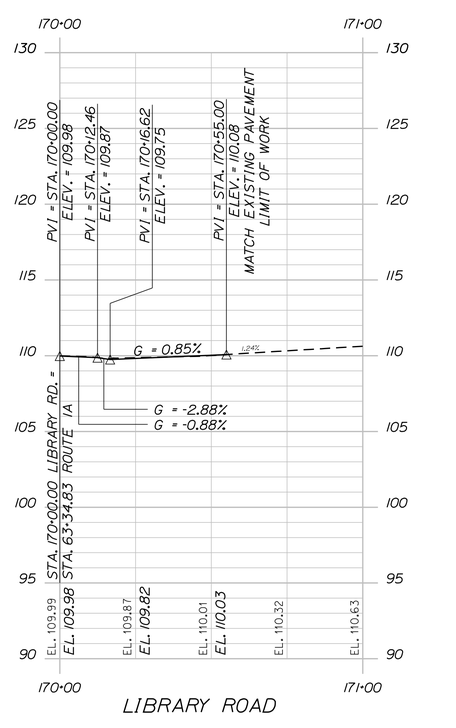


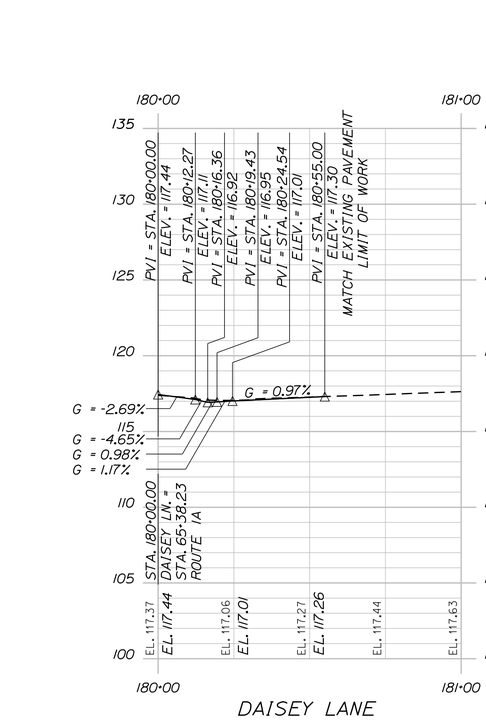


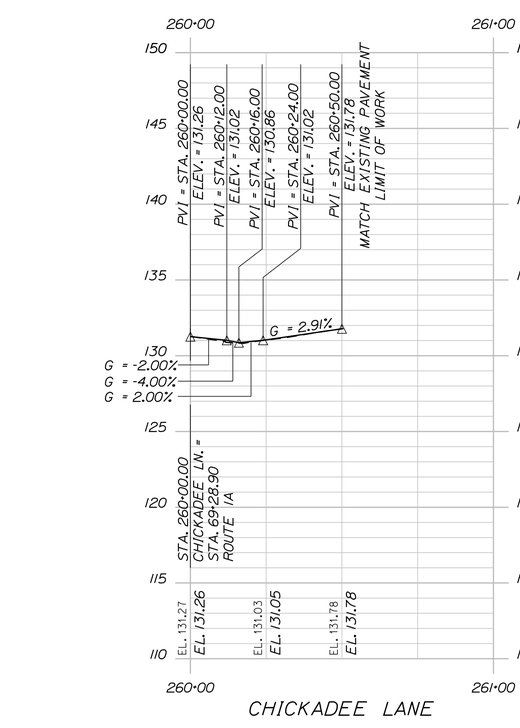












STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

SIDE ROAD PROFILES

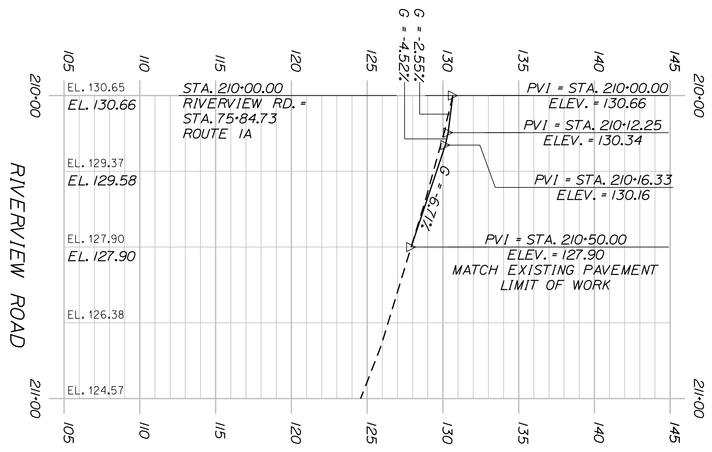
T.Y.LIN INTERNATIONAL

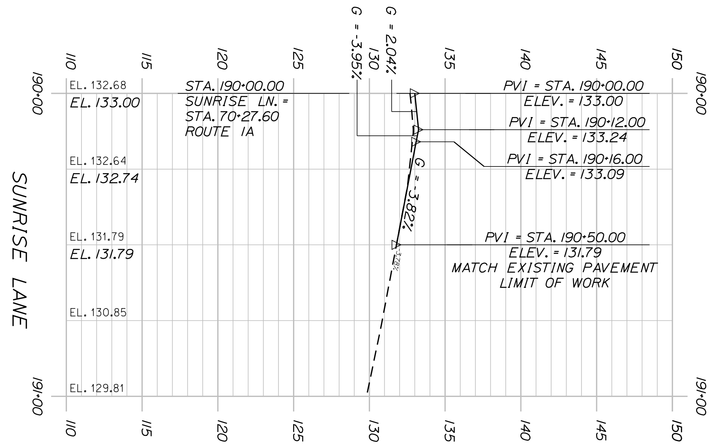
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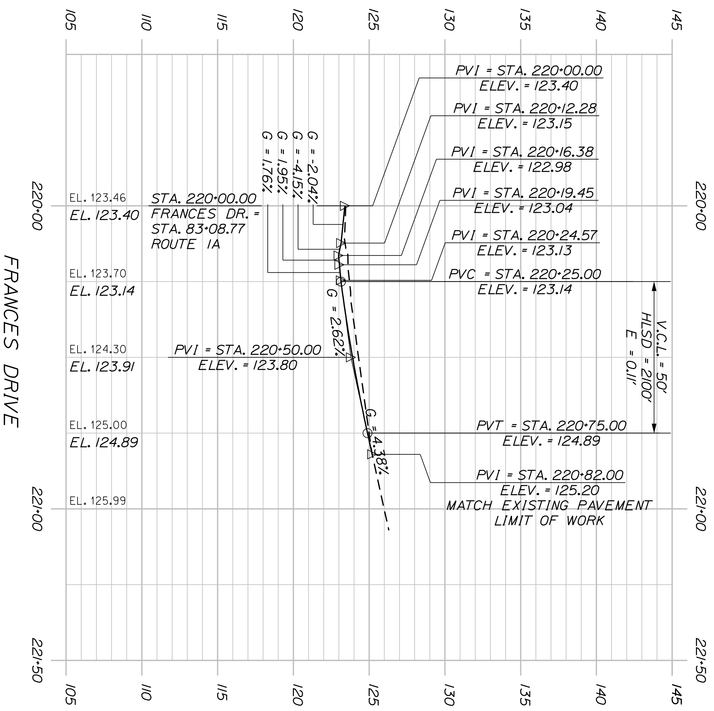
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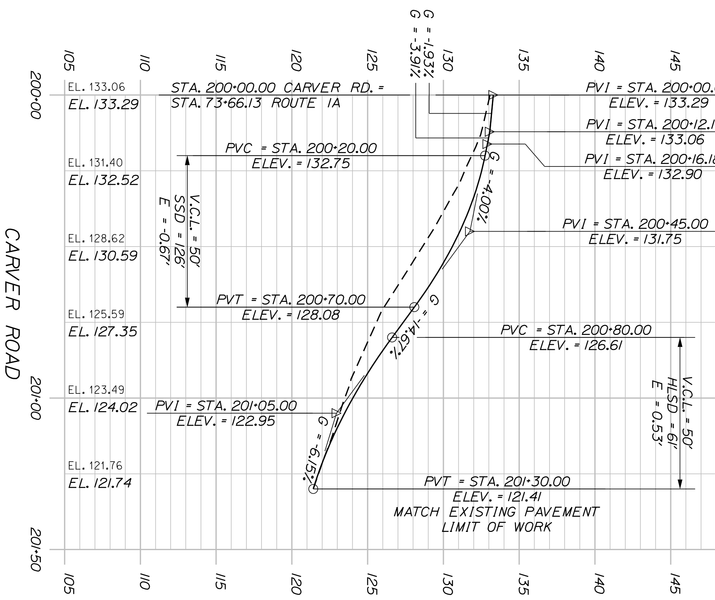
OF 213

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SHEET NUMBER 32 OF 213

HAMPDEN
US ROUTE 1A
SIDE ROAD PROFILES

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

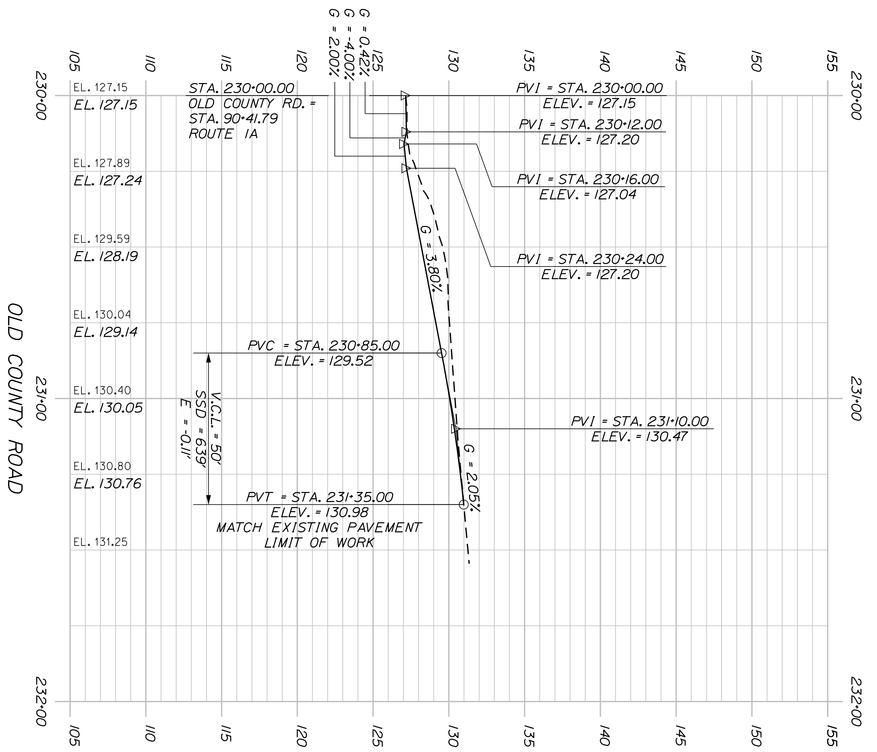
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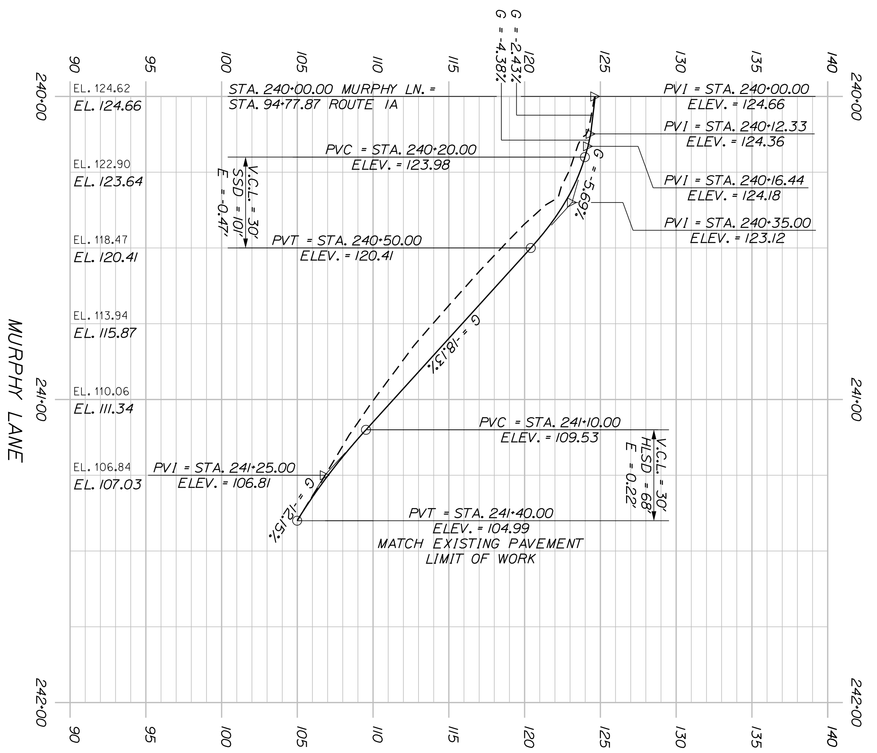
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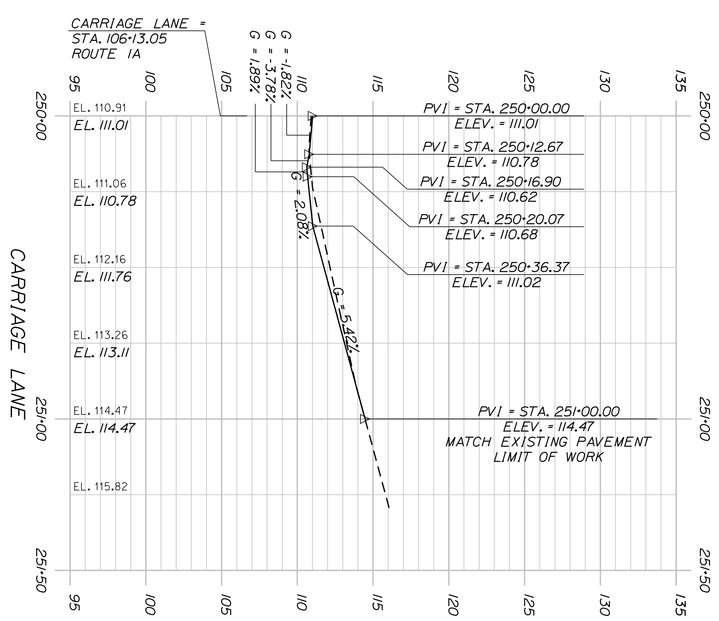
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00 HIGHWAY PLANS







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SHEET NUMBER 33 OF 213

HAMPDEN
US ROUTE 1A

SIDE ROAD PROFILES

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2			
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REVISIONS 3			
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FIELD CHANGES			

SIGNATURE

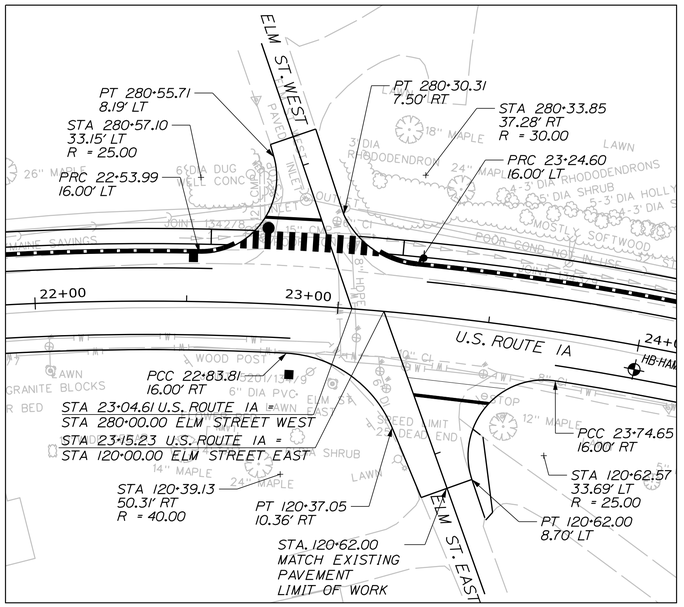
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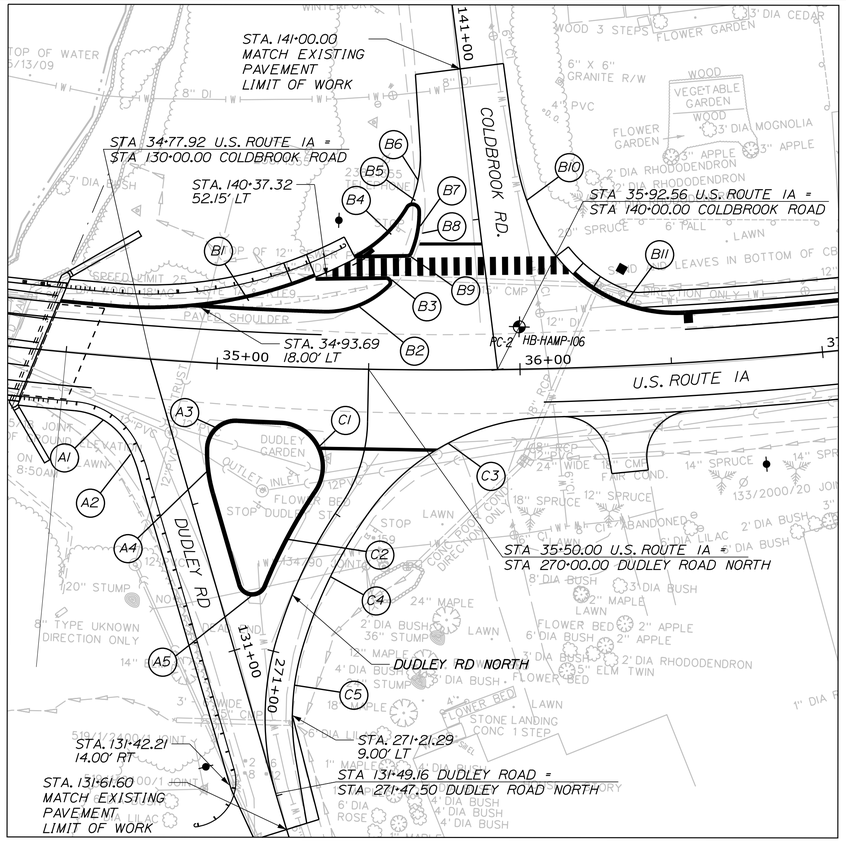
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00 HIGHWAY PLANS

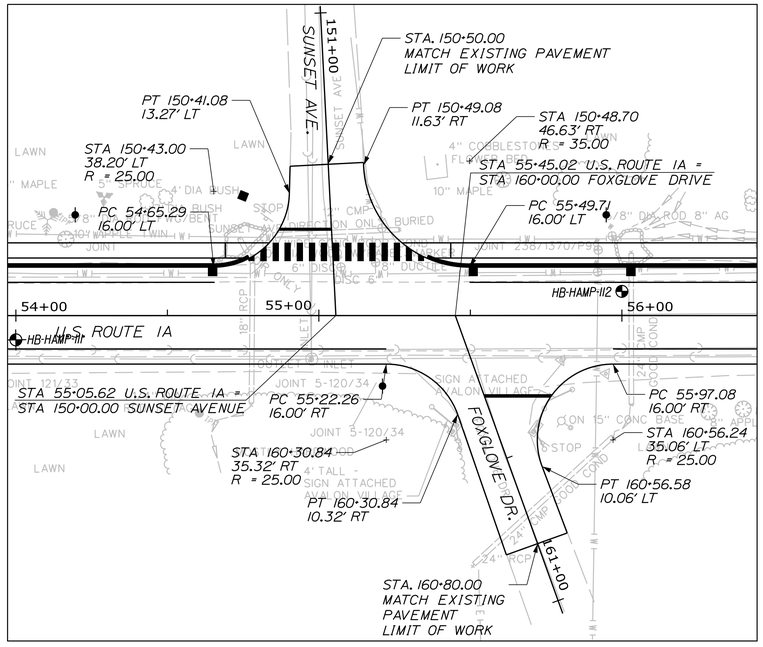


ELM STREET

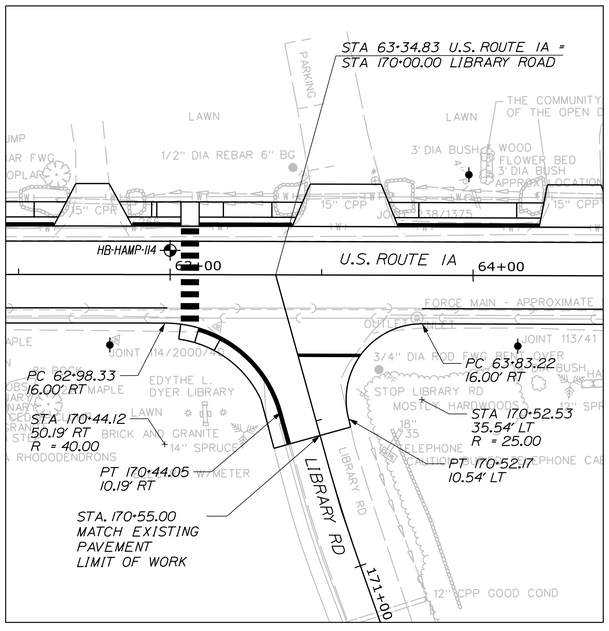


DUDLEY/COLDBROOK RD.

CURVE GEOMETRY DATA				
CURVE	RADIUS	POINT	STATION	OFFSET
A1	17.00'	PC CENTER PCC	34+55.54 130+26.97 130+22.60	19.87' RT 32.63' RT 16.20' RT
A2	47.00'	PCC CENTER PT	130+22.60 130+34.67 130+34.21	16.20' RT 61.62' RT 14.63' RT
A3	10.00'	PC CENTER PCC	35+07.58 130+36.45 130+33.48	18.00' RT 28.00' LT 9.25' LT
A4	50.00'	PT CENTER PCC	130+48.32 130+48.32 130+33.48	7.00' LT 57.00' LT 9.25' LT
A5	5.00'	PRC CENTER PT	270+81.03 130+79.59 130+79.59	9.00' RT 12.00' RT 7.00' LT
B1	145.00'	PC CENTER PCC	34+67.90 141+77.19 140+40.05	16.00' LT 90.36' LT 43.26' LT
B2	30.00'	PC CENTER PCC	35+34.43 140+55.10 140+31.55	18.00' LT 50.23' LT 31.65' LT
B3	2.00'	PCC CENTER PCC	140+31.55 140+33.12 140+35.11	31.65' LT 32.89' LT 32.66' LT
B4	40.00'	PCC CENTER PRC	140+40.05 140+77.88 140+56.88	43.26' LT 56.26' LT 22.22' LT
B5	2.00'	PCC CENTER PRC	140+55.66 140+55.83 140+56.88	18.52' LT 20.51' LT 22.22' LT
B6	40.00'	PRC CENTER PT	140+56.88 140+77.88 140+75.51	22.22' LT 56.26' LT 16.33' LT
B7	40.00'	PCC CENTER PCC	140+55.66 140+58.48 140+41.25	18.52' LT 52.40' LT 23.09' LT
B8	35.00'	PCC CENTER PT	35+31.66 140+58.48 140+56.40	16.00' LT 52.40' LT 17.47' LT
B9	2.00'	PT CENTER PCC	140+40.28 140+42.27 140+41.25	25.04' LT 24.81' LT 23.09' LT
B10	75.00'	PT CENTER PCC	140+70.08 140+70.68 140+39.91	14.62' RT 89.62' RT 21.22' RT
B11	50.00'	PCC CENTER PT	140+39.91 140+60.42 36+55.46	21.22' RT 66.82' RT 16.00' LT
C1	15.00'	PT CENTER PRC	35+21.74 270+47.56 270+47.56	18.00' RT 24.00' RT 9.00' RT
C2	168.00'	PRC CENTER PRC	270+47.56 270+46.50 270+81.03	9.00' RT 159.00' LT 9.00' RT
C3	75.00'	PT CENTER PCC	36+08.88 270+45.82 270+43.41	16.00' RT 84.03' LT 9.16' LT
C4	150.00'	PCC CENTER PCC	270+43.41 270+46.50 270+96.17	9.16' LT 159.00' LT 9.00' LT
C5	81.00'	PCC CENTER PT	270+96.17 271+47.50 271+37.38	9.00' LT 90.00' LT 9.00' LT



SUNSET AVE./FOXGLOVE DR.



LIBRARY RD.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2	SRD		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

GEOMETRY PLAN 01

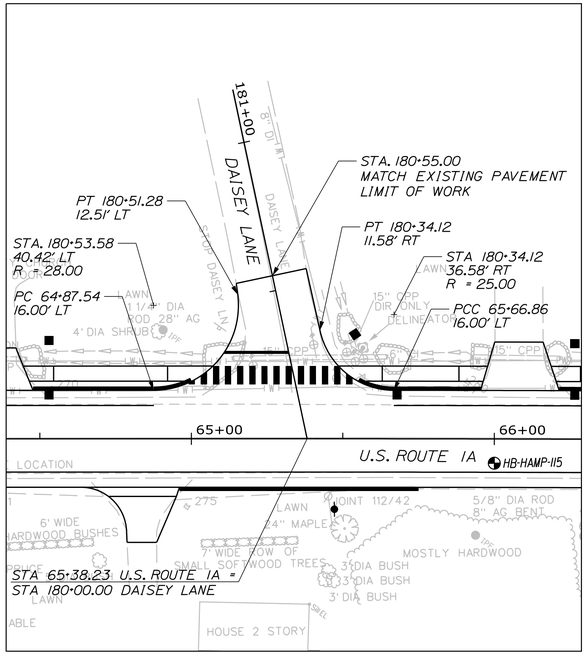
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34

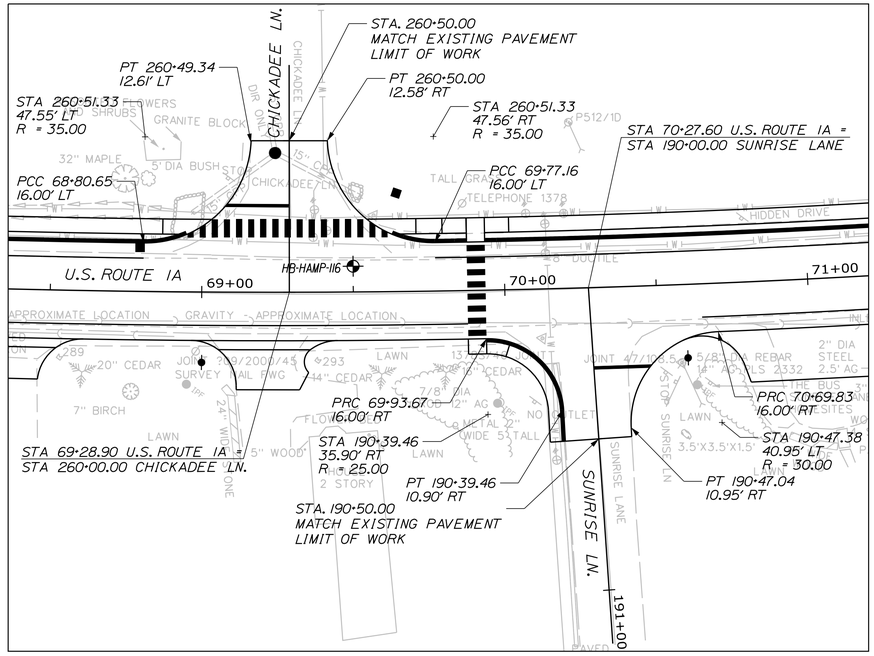
OF 213

T·Y·LIN INTERNATIONAL

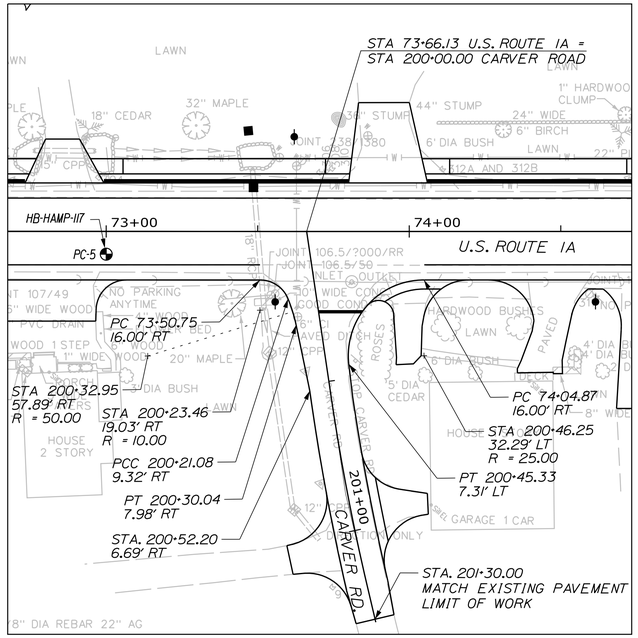
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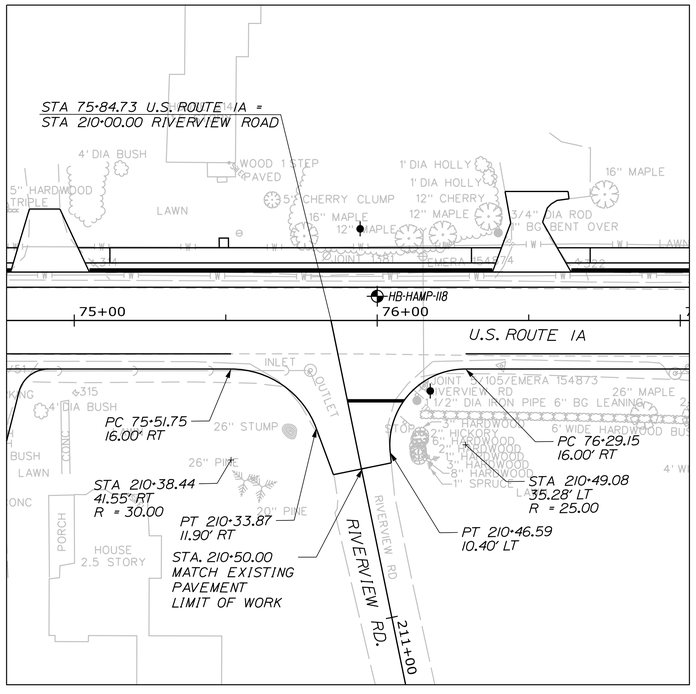
DAISEY LANE



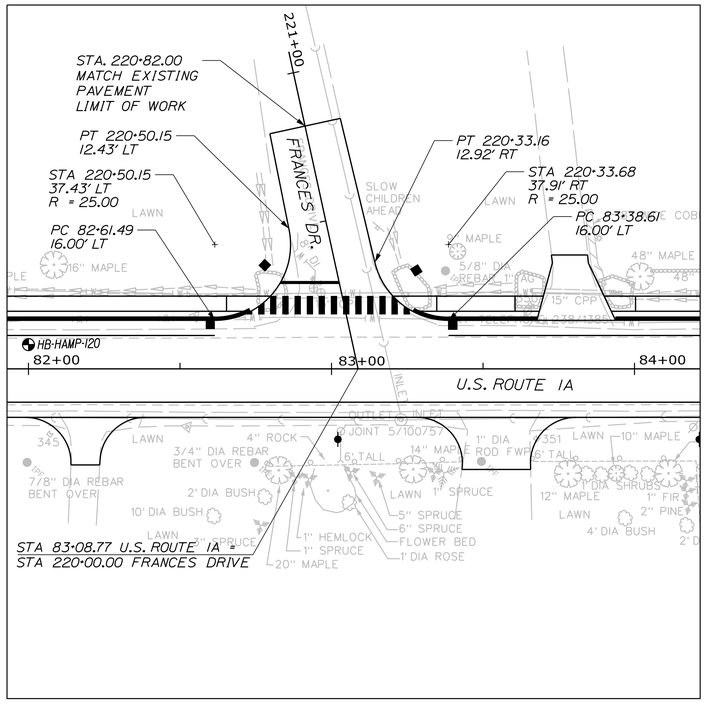
CHICKADEE LN./SUNRISE LN.



CARVER RD.



RIVERVIEW RD.



FRANCES DR.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	SRD	TSK	2/19
CHECKED-REVIEWED	SRD	KSD	2/19
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

GEOMETRY PLAN 02

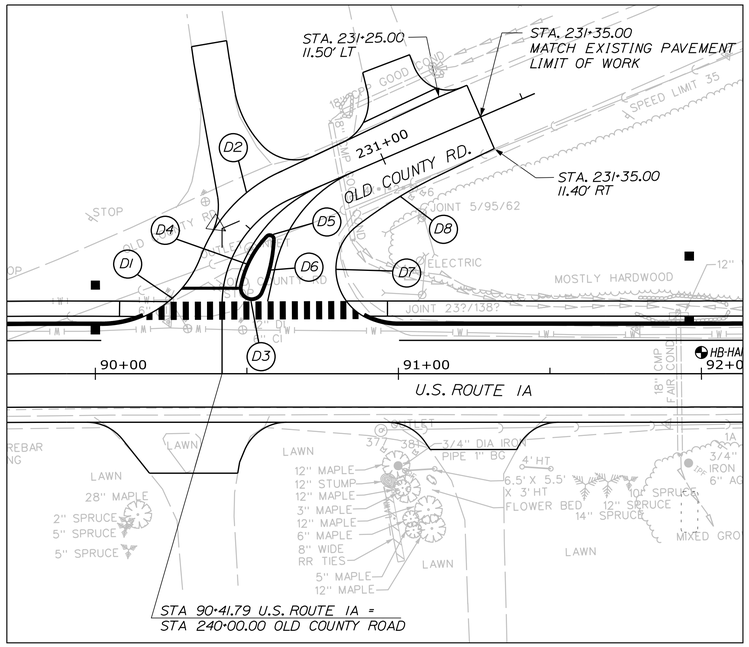
SHEET NUMBER

35

OF 213

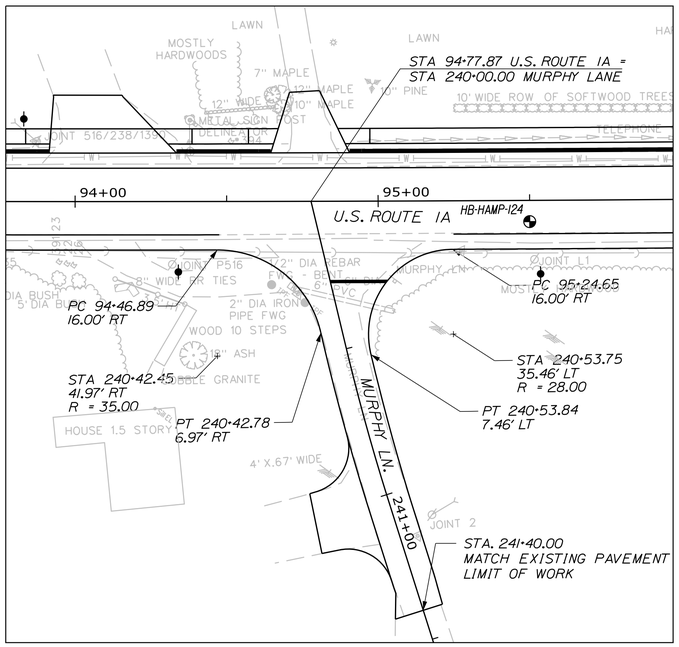
T·Y·LIN INTERNATIONAL

Date:3/7/2019 Username: Division: HIGHWAY Filename: ...\MSTA\027_GeoPlan_02.dgn

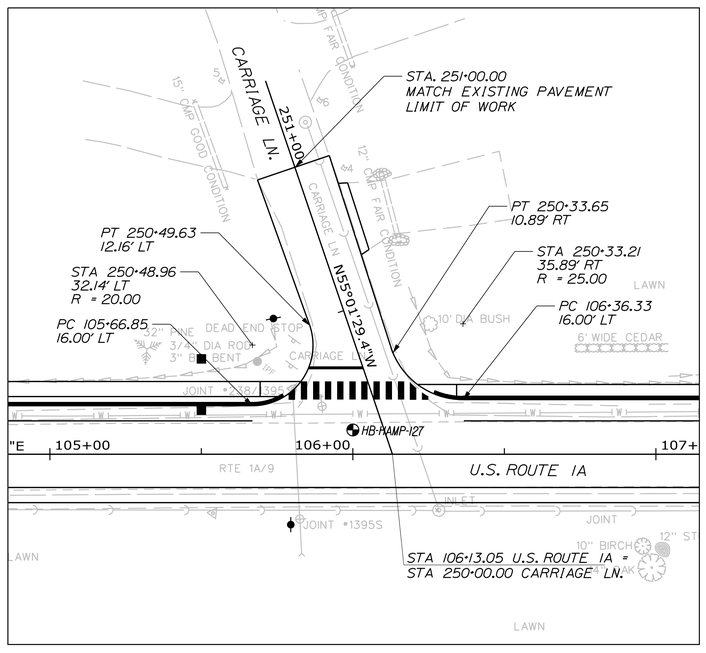


OLD COUNTY RD.

CURVE GEOMETRY DATA				
CURVE	RADIUS	POINT	STATION	OFFSET
D1	35.00'	PT	90+01.85	15.98' LT
		CENTER	230+35.99	44.77' LT
		PRC	230+35.65	9.78' LT
D2	50.00'	PRC	230+41.24	9.65' LT
		CENTER	230+21.05	39.77' LT
		PT	230+66.50	9.56' LT
D3	4.25'	PCC	230+30.05	5.00' RT
		CENTER	230+30.05	9.25' RT
		PCC	230+28.68	13.39' RT
D4	33.50'	PCC	230+30.05	5.00' RT
		CENTER	230+67.39	38.50' RT
		PCC	230+51.97	5.00' RT
D5	2.00'	PCC	230+51.97	5.00' RT
		CENTER	230+51.97	7.00' RT
		PCC	230+53.66	8.47' RT
D6	50.00'	PCC	230+53.66	8.47' RT
		CENTER	230+35.05	36.10' LT
		PCC	230+28.68	13.39' RT
D7	18.00'	PT	91+00.20	16.00' LT
		CENTER	230+87.83	34.26' RT
		PCC	230+83.38	16.82' RT
D8	150.00'	PCC	230+83.38	16.82' RT
		CENTER	231+20.47	162.16' RT
		PT	231+14.07	12.30' RT



MURPHY LN.



CARRIAGE LN.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON
DESIGN-DETAILED	SRD
CHECKED-REVIEWED	SRD
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

BY	DATE
TSK	2/19
KSD	2/19

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

GEOMETRY PLAN 03

SHEET NUMBER

36

OF 213

TYLIN INTERNATIONAL

Filename: ...\MSTA\028_GeoPlan_03.dgn Username: Division: HIGHWAY Date:3/7/2019

GENERAL CONSTRUCTION NOTES

1. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
2. All embankment material, except as otherwise shown, placed below Elevation 15.0, shall be granular borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.
3. For easements, construction limits, and right-of-way lines, refer to Right of Way Maps.
4. Place a 24 inch wide strip of Erosion Control Blanket on the side slopes along the top of the riprap and behind the wingwalls.
5. Protective Coating for Concrete Surfaces shall be applied to the following areas:

   All exposed surfaces of concrete curbs and sidewalks.
   Fascia down to drip notch.
   All exposed surfaces of Concrete Transition Barriers.
   wingwalls, top face and roadway face to one foot below subgrade.
6. Erosion Control Mix may be subsituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with standard specifications Section 619, Mulch. Payment will be made under Item 619.1401, Erosion Control Mix.
7. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
8. In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.
9. An NCHRP350 compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
10. Project information referred to herein may be accessed at the following MaineDOT web address: http://www.maine.gov/mdot/contractors/
11. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.
12. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.
13. The project geotechnical report is as listed below. This report may be accessed at the MaineDOT web address: Geotechnical Design Report Grist Mill Bridge No. 2334 Over Souadabscook Stream MaineDOT WIN 021692.00 Hampden, ME, Prepared by Haley & Aldrich, Inc. dated 1 October 2018.
14. Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidder's or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.
15. Quantities included for pay limits measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

    a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

    b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

    c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specification Section 109.7, Equitable Adjustments to Compensation.
16. The existing bridge shall be removed by, and become the property of, the Contractor.
17. Existing bridge shall be removed to the extents detailed in the plans and the Special Provisions, or as directed by the Resident.
18. If the bedrock elevations vary from the elevations assumed in the development of the plan set, the footings, abutment, and/or wingwalls may require modification. The Contractor will allow MaineDOT seven (7) calendar days to modify the plans from the date that the Resident accepts the bedrock survey.
19. Install two layers of 6 mil polyethylene sheeting under approach slabs. Payment will be incidental to Pay Item 502.31, Structural Concrete Approach Slab.

UTILITIES

Fairpoint Communications
Bangor Hydro
Time Warner Cable
Hampden Telephone
Oxford Networks
Hampden Water District
Hampden Sewer

HYDROLOGIC DATA

Drainage Area	153 sq mi
Check Discharge (Q25)	4898 cfs
Design Discharge (Q50)	5,559 cfs
Check Discharge (Q100)	6,259 cfs
Headwater Elevation (Q25)	13.9 ft
Headwater Elevation (Q50)	14.7 ft
Headwater Elevation (Q100)	15.4 ft
Discharge Velocity (Q25)	15.5 fps
Discharge Velocity (Q50)	16.2 fps
Discharge Velocity (Q100)	16.8 fps

MATERIALS

Concrete:
- Barriers, Curbs, Sidewalks, Endposts ..... Class "LP"
- Unreinforced Leveling Slab ..... Class "A"
- All Other (Unless Noted Otherwise) ..... Class "A"

Reinforcing Steel:
- Superstructure and Integral Backwall ..... ASTM A 955, Grade 75
- All Other ..... ASTM A 615/A 615M, Grade 60, Plain

BASIC DESIGN STRESSES

Concrete
- Class "LP" ..... f'c = 5,000 psi
- Class "A" ..... f'c = 4,000 psi

Plain Reinforcing Steel ..... fy = 60,000 psi
Stainless Reinforcing Steel ..... fy = 75,000 psi

INDEX OF BRIDGE SHEETS

Description	Sheet No.
Bridge General Notes	37
Bridge Plan	38
Bridge Profile	39
Boring Location Plan	40
Interpretive Subsurface Profile Left & Right of CL	41
Boring Logs LT of CL	42
Boring Logs RT of CL	43
Abutment No. 1 Footing Plan & Reinforcement	44
Abutment No. 1 Plan & Elevation	45
Abutment No. 1 Wingwall Plan & Elevation	46
Abutment No. 2 Footing Plan & Reinforcement	47
Abutment No. 2 Plan & Elevation	48
Abutment No. 2 Wingwall Plan & Elevation	49
Abutment Sections	50
Abutment Earthwork Sections	51
Abutment No. 1 Backwall Plan & Elevation	52
Abutment No. 2 Backwall Plan & Elevation	53
Girder End Details	54
Structural Details	55
Utility Connection Details	56
Superstructure Plan	57
Backwall Reinforcement Details	58
Transverse Section, BOS Elevations & Deflections	59
Reinforcing Schedule	60

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2017.

DESIGN LOADING

Live Load ..... HL - 93 Modified for Strength I (Truck Only Increased 25%)

PROJECT LOCATION

Grist Mill Bridge (#2334) over Souadabscook Stream.
Located on State Routes 1A and 9, 0.21 Miles North of Elm St.
Latitude 44°44'56"N Longitude 68°49'57"W

PROGRAM AREA

Bridge

SCOPE OF WORK

Bridge Replacement

MAINTENANCE OF TRAFFIC

Close Road, Maintain Traffic on Offsite Detour.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2169(200)
WIN 021692.00
BRIDGE NO. 2334
BRIDGE PLANS

PROJ. MANAGER	L.TIMBERLAKE	BY	DATE
DESIGN-DETAILED	B. Toothaker	B. Toothaker	02/2019
CHECKED-REVIEWED	D. Myers	D. Myers	02/2019
DESIGN2-DETAILED2			SIGNATURE
DESIGN3-DETAILED3			
REVISIONS 1			P.E. NUMBER
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			DATE
FIELD CHANGES			

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

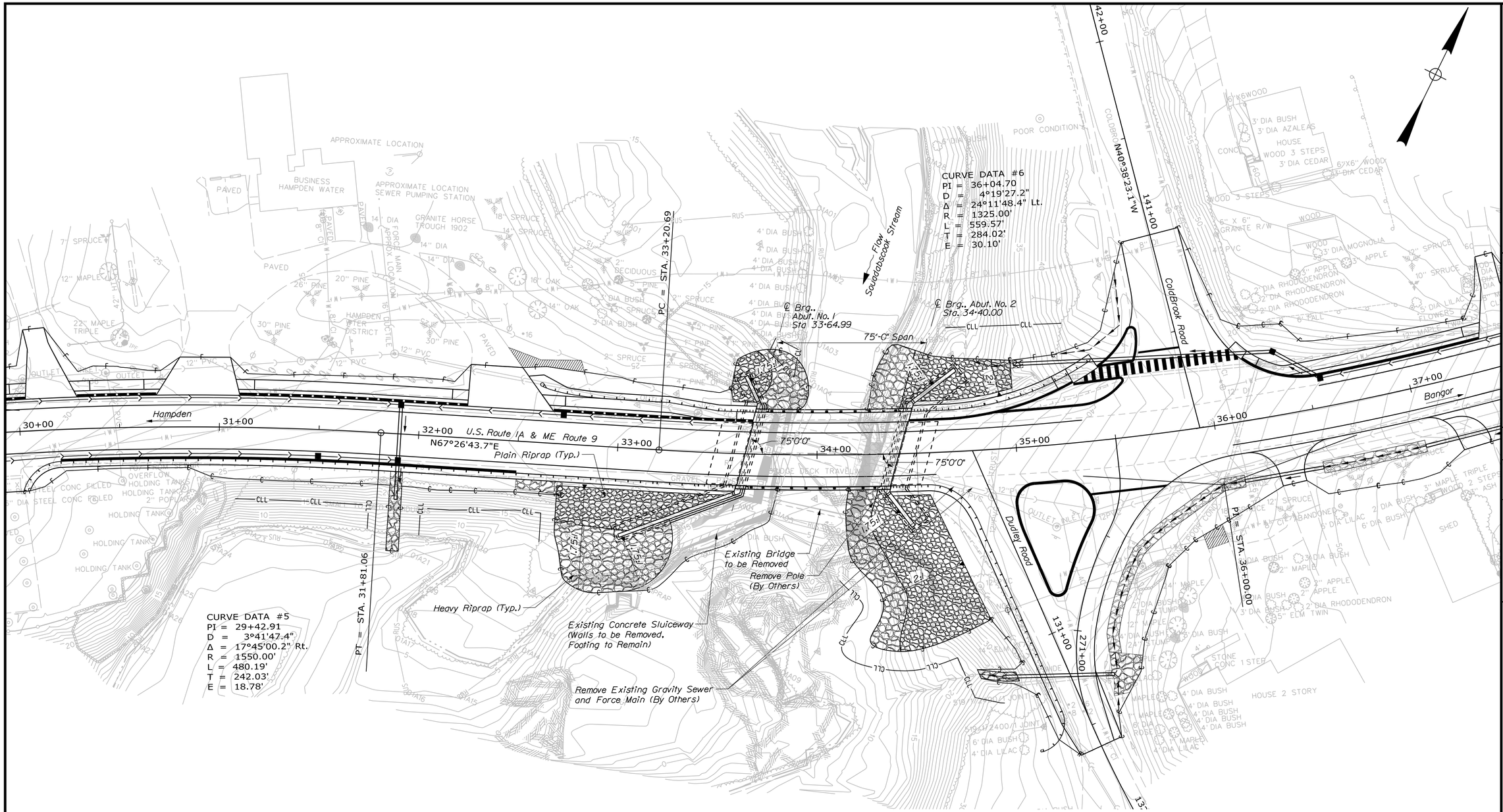
BRIDGE GENERAL NOTES

SHEET NUMBER
37
OF 213

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Filename: ...\MSTA\xxx_General_Notes.dgn Division: HIGHWAY Username: Date:3/7/2019

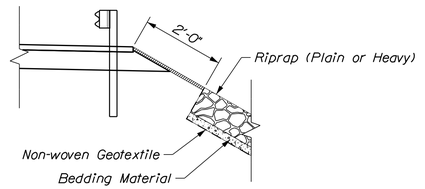
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PLAN

25 0 25 50

Scale of Feet



RIPRAP PLACEMENT DETAIL

N.T.S.

NOTES:

1. See sheets "Plans & Profiles" and "Construction Notes" for additional information and approach details.
2. Heavy riprap to be used below Elev. 15.0 and shall be 4' depth.
3. Plain riprap to be used above Elev. 15.0 and shall be 3' depth.
4. See utility detail sheets for relocated utility information.
5. See sheet "Bridge Profile" for project work limits.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334 BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	L.TIMBERLAKE	
DESIGN-DETAILED	B. Toothaker	S. Morgan 10/2018
CHECKED-REVIEWED	D. Myers	B. Toothaker 02/2019
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

BRIDGE PLAN

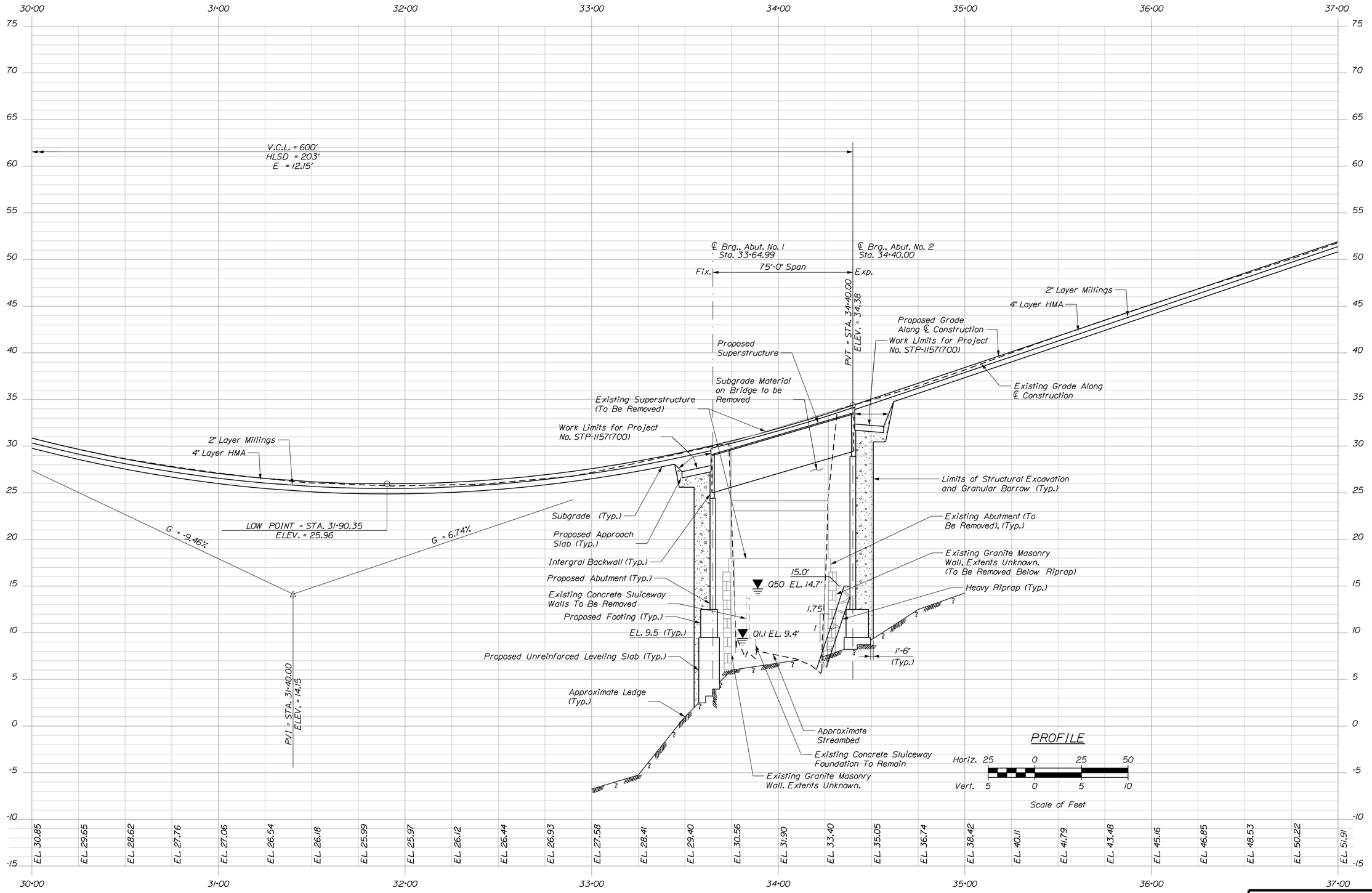
SHEET NUMBER

38

OF 213

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NOTE: See sheets "Plans & Profiles" and "Construction Notes" for additional information and approach details

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	L. TIMBERLAKE	
DESIGN-DETAILED	B. Toothaker	J. Rollins 03/2018
CHECKED-REVIEWED	D. Myers	B. Toothaker 04/2018
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

BRIDGE PROFILE

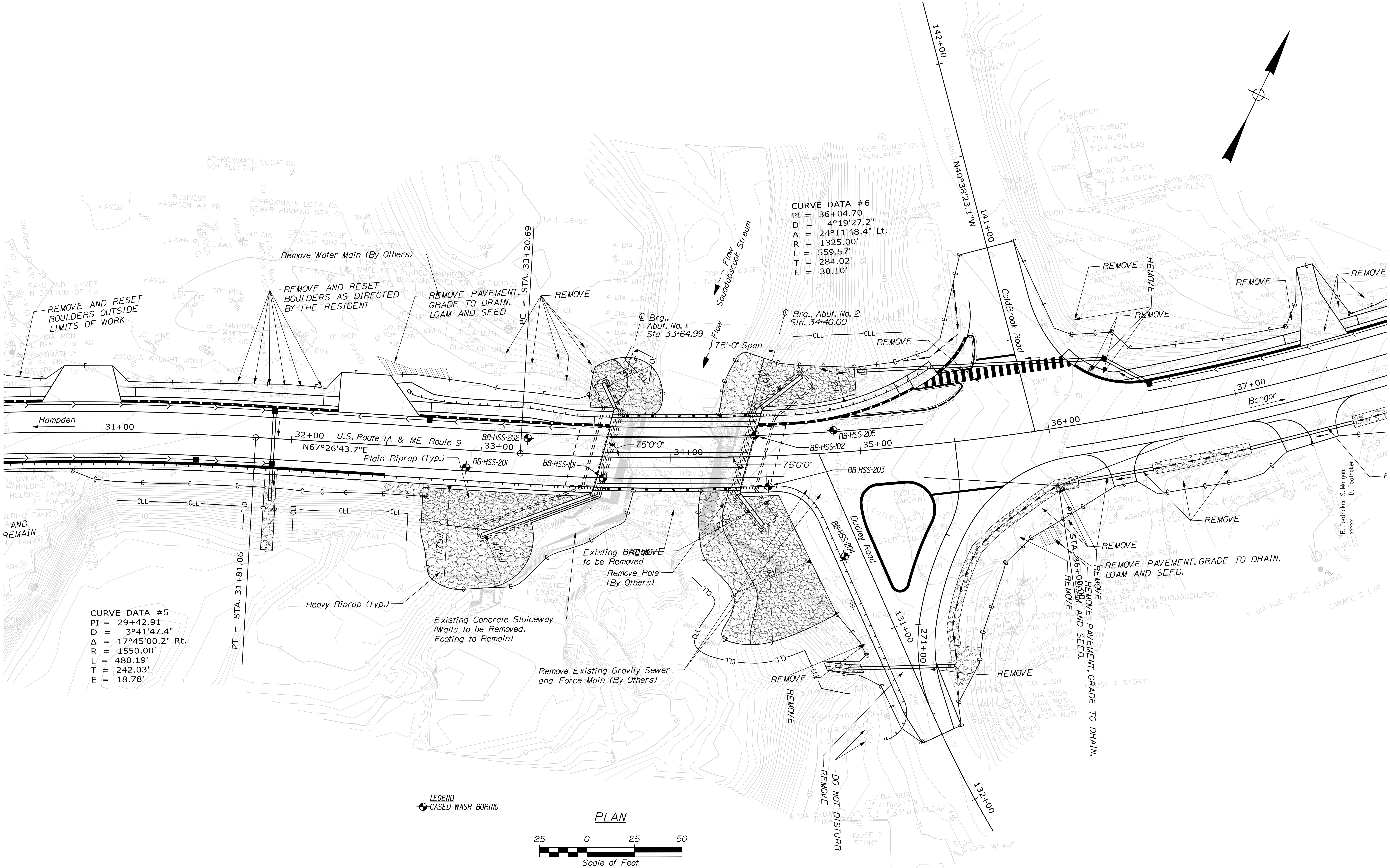
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OF 213

Filename: ...\00\GEOTECH\MSTA\040_BLP1.dgn Division: GEOTECH Username: Laura.Krusinski Date:2/25/2019



"Plans & Profiles" and "Construction Notes" for
formation and approach details.

o to be used below Elev. 15.0 and shall be 4' depth

o to be used above Elev. 15.0 and shall be 3' depth

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

BRIDGE NO. 2334

WIN 21692.00

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	W.FRANKHAUSER	
DESIGN-DETAILED		
CHECKED-REVIEWED		
DESIGN2-DETAILED2	N.SHERWOOD	T.WHITE SEP 2018
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

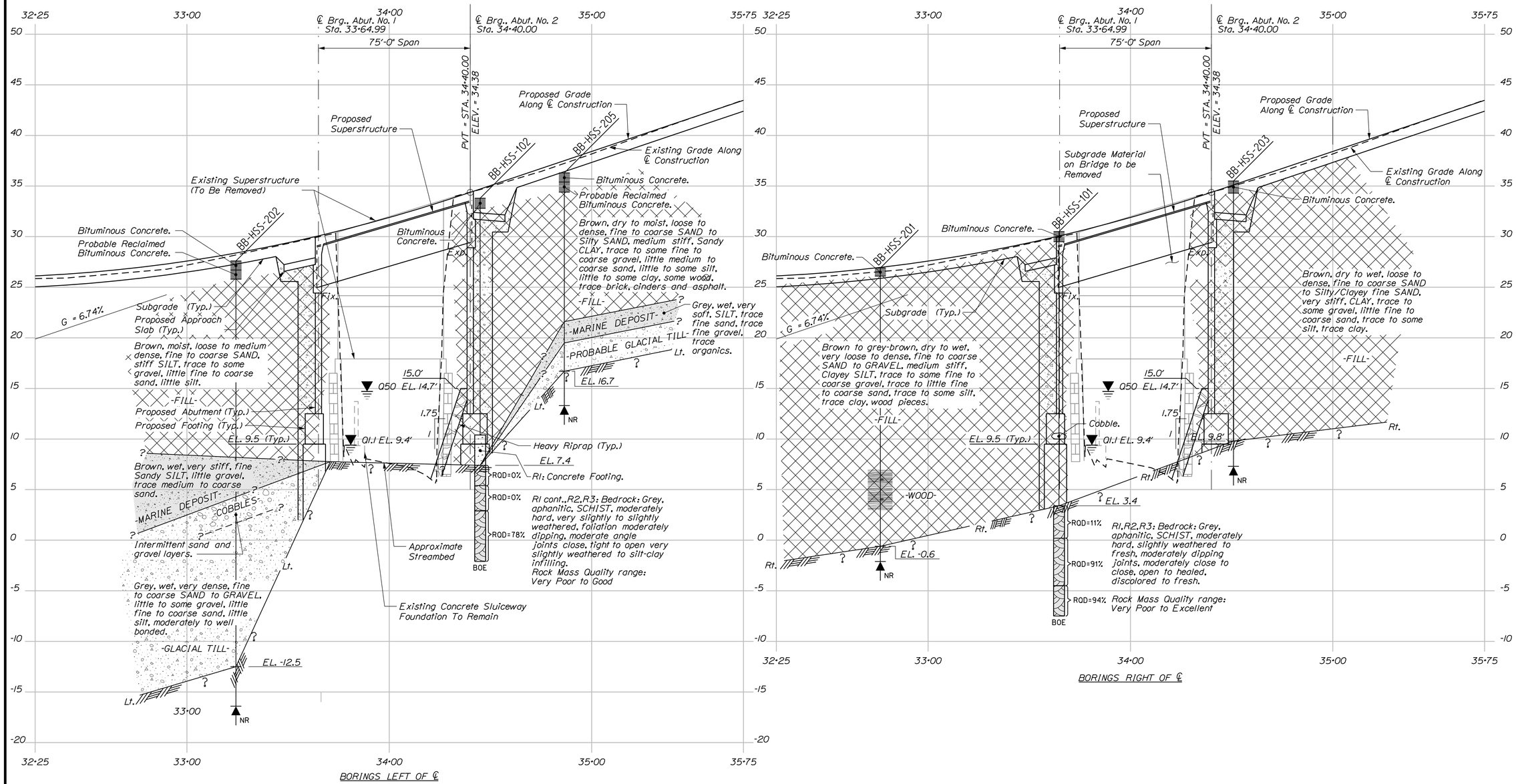
BORING LOCATION PLAN

SHEET NUMBER

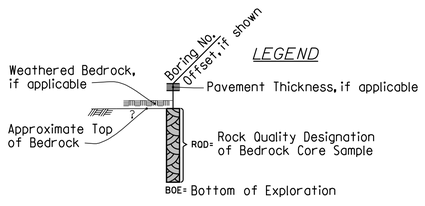
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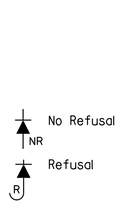
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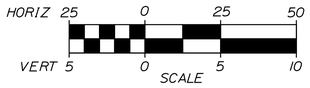


LEGEND





PROFILE



Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 21692.00

BRIDGE NO. 2334

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	W.FRANKHAUSER	
DESIGN-DETAILED	-----	-----
CHECKED-REVIEWED	-----	-----
DESIGN2-DETAILED2	N.SHERWOOD	SEP. 2018
DESIGN3-DETAILED3	T.WHITE	
REVISIONS 1	-----	-----
REVISIONS 2	-----	-----
REVISIONS 3	-----	-----
REVISIONS 4	-----	-----
FIELD CHANGES	-----	-----

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

INTERPRETIVE SUBSURFACE PROFILE LEFT & RIGHT OF ℄

SHEET NUMBER

41

OF 213

Filename: ...\MSTA\042_BORING LOGS L1.dgn Division: GEOTECH Username: Laura.Krusinski Date:2/20/2019

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Grist Mill Bridge #2334 Over Souoadabscook Stream
Location: Hampden, Maine

Boring No.: BB-HSS-202
WIN: 21692.00

Driller:	Maine Department of Transportation	Elevation (ft.): 27.6	Auger ID/OD: --
Operator:	T. Doggett	Datum: NAVD 88	Sampler: Split-Spoon 1.375 in.
Logged By:	M. Snow	Rig Type: CME 45C	Hammer Wt./Falls: SS-140#/30in NW 140#/30
Date Start/Finish:	7-24-18/7-24-18	Drilling Methods: SSA/NW Drive	Core Barrels: --
Boring Location:	STA.33+24.2± 8.1 LT	Casing ID/OD: NW-3.0 in. ID	Water Level*: 24.0 ft
Hammer Efficiency Factor: 0.928		Hammer Type: Automatic ☒ Hydraulic ☐ Rope & Catheod ☐	

Sample Type: D = Split Spoon Sample; WO = Unsuccessful Split Spoon Sample Attempt; U = Thin Wall Tube Sample; WU = Unsuccessful Thin Wall Tube Sample Attempt; V = Field Vane Shear Test; PP = Pocket Penetrometer; WOH/C = Weight of Rods or Casing; WH = Weight of One Person; R = Rock Core Sample; SSA = Solid Stem Auger; HSA = Hollow Stem Auger; RC = Roller Cone; WOH = Weight of 140lb. Hammer; MOH/C = Weight of Rods or Casing; WOP = Weight of One Person

S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf); $S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf); q_u = Unconfined Compressive Strength (ksf); N-uncorrected = Raw Field SPT N-value; Hammer Efficiency Factor = Rig Specific Annual Calibration Value; N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency; N_{60} = Hammer Efficiency Factor/60%=N-uncorrected; S_u Pocket Torvane Shear Strength (psf); WC = Water Content, percent; LL = Liquid Limit; PL = Plastic Limit; PI = Plasticity Index; G = Grain Size Analysis; C = Consolidation Test

Depth (ft.)	Sample No.	Rec./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Sheer Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							SSA	26.7		-BITUMINOUS CONCRETE-	
								25.8		-PROBABLE RECLAIMED BITUMINOUS CONCRETE- 0.9	
	10	24/16	2.00 - 4.00	11/14/9/9	23	36				Brown, moist, medium dense, fine to coarse SAND, some gravel, little silt -FILL-(SW-SM) PID=0ppm	
5	20	24/16	5.00 - 7.00	3/5/5/6	10	15		23.1		Brown, moist, stiff SILT, little fine to coarse sand, trace gravel -FILL-(ML) PID=0ppm 4.5	
10	30	24/3	10.00 - 12.00	2/3/2/3	5	8	6	19.1		8.5	
	30A*	24/3	12.00 - 14.00				8			Brown, moist, loose, fine to medium SAND, little coarse sand, little silt, trace gravel, slight petroleum-like odor -FILL-(SP-SM) PID=0ppm *Redrove sampler	
							14			Brown, moist, fine to coarse SAND, little silt, trace gravel -FILL-(SW-SM)	
15	40	24/0	15.00 - 17.00	18/20/18/8	38	59	24				
							38			Note: Missed sample, redrove sample, pushing on rock, no recovery -FILL-	
							30				
							26				
20	50	24/4	20.00 - 22.00	8/10/8/6	18	28	40	7.6		Brown, wet, very stiff, fine sandy SILT, little gravel, trace medium to coarse sand -MARINE DEPOSIT-(ML) PID=0ppm 20.0	
							45	4.6		COBBLES encountered from approximately 23.0 to 25.5 ft with intermittent sand and gravel layers approximately 2 to 3-in. thick based on drill action -GLACIAL TILL- 23.0	
							163				
25							191	2.1		Gray, wet, very dense, fine to coarse GRAVEL, little fine to coarse sand, little silt, moderately bonded -GLACIAL TILL-(GW-GM) PID=0ppm 25.5	
	60	24/5	26.00 - 28.00	43/73/28/21	101	156	72				
							67				
							87				
30							93	-1.4		29.0	
	70	9/7	30.00 - 30.75	30/92(3")			98			Gray, wet, very dense, fine to medium SAND, little coarse sand, little silt, little gravel, well bonded -GLACIAL TILL-(SM) PID=0ppm	
							17				
							73				
							271			Note: Casing refusal at 33.1 ft. Advanced roller bit open hole.	
							181/1				
35							OPEN				
	80	2/2	35.00 - 35.17	125(2")						Gray, wet, fine to coarse SAND, some gravel, little silt, well bonded -GLACIAL TILL-(SM) PID=0ppm	
40	90	0/0	40.00 - 40.00	80(0")			RC	-12.5		Note: Split-spoon refusal at 40.0 ft 40.1	
										Top of Probable Bedrock at El. -12.5 Note: Advanced roller bit to 44.0 ft. Recovered bedrock chips in wash water. -PROBABLE BEDROCK-	
								-16.4			
45										Bottom of Exploration at 44.0 feet below ground surface.	
50											

Remarks:
*Water level taken after completion of boring: casing at 33.1 ft below ground surface.
Jar samples screened with a photoionization detector (PID) by Haley & Aldrich upon completion of the subsurface exploration program. Screening was not completed in the field.

Stratification lines represent approximate boundaries between soil typeset transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1

Boring No.: BB-HSS-202

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Grist Mill Bridge #2334 carries Route 16/9 over Souoadabscook Stream
Location: Hampden, Maine

Boring No.: BB-HSS-102
WIN: 21692.00

Driller:	MaineDOT	Elevation (ft.): 33.8	Auger ID/OD: Hollow Stem Auger
Operator:	E. Giguere/C. Giles	Datum: NAVD 88	Sampler: Standard Split Spoon
Logged By:	B. Babcock	Rig Type: CME 45C	Hammer Wt./Falls: 140#/30"
Date Start/Finish:	7/22/09-7/22/09	Drilling Methods: Cased Wash Boring	Core Barrels: NQ-2"
Boring Location:	34+44.9, 11.3 ft Lt.	Casing ID/OD: HW & NW	Water Level*: 4.6' bgs.
Hammer Efficiency Factor: 0.84		Hammer Type: Automatic ☒ Hydraulic ☐ Rope & Catheod ☐	

Sample Type: D = Split Spoon Sample; WO = Unsuccessful Split Spoon Sample Attempt; U = Thin Wall Tube Sample; WU = Unsuccessful Thin Wall Tube Sample Attempt; V = Field Vane Shear Test; PP = Pocket Penetrometer; WOH/C = Weight of Rods or Casing; WH = Weight of One Person; R = Rock Core Sample; SSA = Solid Stem Auger; HSA = Hollow Stem Auger; RC = Roller Cone; WOH = Weight of 140lb. Hammer; MOH/C = Weight of Rods or Casing; WOP = Weight of One Person

S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf); $S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf); q_u = Unconfined Compressive Strength (ksf); N-uncorrected = Raw Field SPT N-value; Hammer Efficiency Factor = Rig Specific Annual Calibration Value; N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency; N_{60} = Hammer Efficiency Factor/60%=N-uncorrected; S_u Pocket Torvane Shear Strength (psf); WC = Water Content, percent; LL = Liquid Limit; PL = Plastic Limit; PI = Plasticity Index; G = Grain Size Analysis; C = Consolidation Test

Depth (ft.)	Sample No.	Rec./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Sheer Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							HSA	32.8		ASPHALT. 1.0	
	10	24/12	1.00 - 3.00	48/23/13/10	36	50				Brown, dry, dense, coarse to fine SAND, some coarse to fine gravel, little silt, trace asphalt. (fill). 1.8	GM212330 A-1-a, SM WC=3.5%
5	20	24/6	5.00 - 7.00	6/5/6/4	11	15				Brown, dry, medium dense, fine SAND, some silt, little coarse to medium sand, trace coarse to fine gravel.	
10	30	24/12	10.00 - 12.00	4/3/3/3	6	8				Brown, moist, loose, fine to coarse SAND, little silt, little coarse to fine gravel, little clay, trace brick & cinders.	GM212331 A-2-4, SC-SM WC=14.4% LL=N/A PL=18 PI=8
15	40	24/6	15.00 - 17.00	3/2/3/3	5	7	49			Grey, moist, medium stiff, sandy CLAY, some wood, trace fine gravel, trace brick.	
							100				
							76				
							43				
20	50	24/03	19.00 - 21.00	6/3/2/2	5	7	80			No Recovery, re-drove spoon through sample interval to 21.0' bgs and recovered 3" of wood and gravel. Drove HW Casing to Refusal at 23.4' bgs.	
							72				
							81				
							56			Driller noted increased drilling difficulty at 21.5' bgs.	
							149				
	R1	60/60	23.40 - 28.40	RQD = 0%			D154 NQ-2	10.4		D154 blows for 4.8". 23.4 R1: Concrete Footing from 23.4-26.4' bgs. R1:Core Times (minisec) 23.4-24.4' (4:21) 24.4-25.4' (3:59) 25.4-26.4' (5:08) 100% Recovery Note: Concrete not included in RQD Recovery Calculations.	
25								7.4			
	R2	30/30	28.40 - 30.90	RQD = 0%				5.4		Top of Bedrock at Elev. 7.4'. R1:Bedrock: Grey, aphanitic, metamorphic SCHIST, moderately hard, very slightly weathered, foliation moderately dipping, moderately dipping joints close. tight to open, very slightly weathered, vertical joint at 28.1' open, discolored with some secondary mineralization present. Rock Quality Mass= Very Poor R1:Core Times (minisec) cont. 26.4-27.4' (3:55) 27.4-28.4' (5:23) 100% Recovery 28.4	
	R3	60/57	30.90 - 35.90	RQD = 78%				2.9		R2:Bedrock: Same Rock type, except slightly weathered, moderate angle joints close, open, slightly weathered to silt-clay infilling, vertical joints moderately close, open, discolored. Rock Quality Mass= Very Poor R2:Core Times (minisec) 28.4-29.4' (5:46) 29.4-30.4' (6:07) 30.4-30.9' (12:31) 100% Recovery Barrel jammed at 30.9' bgs.	
35								-2.1		30.9	
										R3:Bedrock: Same Rock type, except moderate angle joints close to moderately close, open, discolored to slightly weathered. Healed vertical joint at 32.6' bgs. Rock Mass Quality= Good R3:Coretimes (minisec) 30.9-31.9' (5:11) 31.9-32.9' (5:06) 32.9-33.9' (5:11) 33.9-34.9' (4:50) 34.9-35.9' (5:40) 95% Recovery	
40										35.9 Bottom of Exploration at 35.9 feet below ground surface.	
45											
50											

Remarks:

Stratification lines represent approximate boundaries between soil typeset transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1

Boring No.: BB-HSS-102

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Grist Mill Bridge #2334 Over Souoadabscook Stream
Location: Hampden, Maine

Boring No.: BB-HSS-205
WIN: 21692.00

Driller:	Maine Department of Transportation	Elevation (ft.): 36.3	Auger ID/OD: --
Operator:	T. Doggett	Datum: NAVD 88	Sampler: Split-Spoon 1.375 in.
Logged By:	M. Snow	Rig Type: CME 45C	Hammer Wt./Falls: SS-140#/30in NW 140#/30
Date Start/Finish:	7-24-18/7-24-18	Drilling Methods: SSA/NW Drive	Core Barrels: --
Boring Location:	STA.34+86.5± 11.8 LT	Casing ID/OD: NW-3.0 in. ID	Water Level*: 4.0 ft
Hammer Efficiency Factor: 0.928		Hammer Type: Automatic ☒ Hydraulic ☐ Rope & Catheod ☐	

Sample Type: D = Split Spoon Sample; WO = Unsuccessful Split Spoon Sample Attempt; U = Thin Wall Tube Sample; WU = Unsuccessful Thin Wall Tube Sample Attempt; V = Field Vane Shear Test; PP = Pocket Penetrometer; WOH/C = Weight of Rods or Casing; WH = Weight of One Person; R = Rock Core Sample; SSA = Solid Stem Auger; HSA = Hollow Stem Auger; RC = Roller Cone; WOH = Weight of 140lb. Hammer; MOH/C = Weight of Rods or Casing; WOP = Weight of One Person

S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf); $S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf); q_u = Unconfined Compressive Strength (ksf); N-uncorrected = Raw Field SPT N-value; Hammer Efficiency Factor = Rig Specific Annual Calibration Value; N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency; N_{60} = Hammer Efficiency Factor/60%=N-uncorrected; S_u Pocket Torvane Shear Strength (psf); WC = Water Content, percent; LL = Liquid Limit; PL = Plastic Limit; PI = Plasticity Index; G = Grain Size Analysis; C = Consolidation Test

Depth (ft.)	Sample No.	Rec./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Sheer Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							SSA	35.4		-BITUMINOUS CONCRETE-	
										-PROBABLE RECLAIMED BITUMINOUS CONCRETE- 0.9	
	10	24/14	2.20 - 4.20	9/10/9/10	19	29		34.4		Brown, dry, medium dense, fine to coarse SAND, little silt, little gravel -FILL-(SW-SM) PID=0ppm 1.9	
5	20	24/13	5.00 - 7.00	4/3/3/3	6	9		31.7		Brown, moist, loose, silty fine to coarse SAND, little gravel, occasional clayey sand layers, trace clay, strong petroleum-like odor -FILL-(SM) PID=0ppm 4.6	
10	30	24/12	10.00 - 12.00	2/2/3/4	5	8	6				
							16			Brown, wet, loose, silty fine to coarse SAND, little gravel, contains wood -FILL-(SW) PID=0ppm	
							12				
							10			Note: Casing pushed down to 15.4 ft with roller bit.	
15	40	24/21	15.40 - 17.40	WOH/WOH/3/2	3	5	13	21.3		15.0	
							9			Gray, wet, very soft, SILT, trace fine sand, trace fine gravel, trace organics -MARINE DEPOSIT-(ML) PID=0ppm	
							13	19.3		Note: Probable Glacial Till at 17.0 ft based on casing blows and drill action. -PROBABLE GLACIAL TILL- 17.0	
							74				
							100				
20							165/5"	16.7		Top of Probable Bedrock at El. 16.7 Note: Advanced roller bit from 19.6 to 23.0 ft. Recovered bedrock chips in wash water, consistent penetration with no weathered zones observed. -PROBABLE BEDROCK- 19.6	
							RC				
								13.3		Bottom of Exploration at 23.0 feet below ground surface. 23.0	
25											
30											
35											
40											
45											
50											

Remarks:
*Water level taken after completion of boring with casing removed.
Jar samples screened with a photoionization detector (PID) by Haley & Aldrich upon completion of the subsurface exploration program. Screening was not completed in the field.

Stratification lines represent approximate boundaries between soil typeset transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1

Boring No.: BB-HSS-205

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 21692.00

BRIDGE NO. 2334

BRIDGE PLANS

PROJ. MANAGER	W.FRANKHAUSER	BY	DATE
DESIGN-DETAILED	------	------	------
CHECKED-REVIEWED	------	SIGNATURE	
DESIGN2-DETAILED2	N.SHERWOOD	T.WHITE	JAN 2019
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	P.E. NUMBER	
REVISIONS 2	------	------	------
REVISIONS 3	------	DATE	
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

GRIST MILL BRIDGE
SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

BORING LOGS LT OF ℄

SHEET NUMBER
42
OF 213

Filename: ...\MSTA\043_BORING LOGS R2.dgn Username: Laura.Krusinski Date:2/20/2019 Division: GEOTECH

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Grist Mill Bridge #2334 Over Souadabscook Stream
Location: Hampden, Maine

Boring No.: BB-HSS-201
WIN: 21692.00

Driller:	Maine Department of Transportation	Elevation (ft.): 26.9	Auger ID/OD: --
Operator:	T. Doggett	Datum: NAVD 88	Sampler: Split-Spoon 1.375 in.
Logged By:	W. Snow	Rig Type: CME 45C	Hammer Wt./Fall: SS-140#/30i NW 140#/30
Date Start/Finish:	7-23-18/7-23-18	Drilling Method: SSA/NW Drive	Core Barrel: --
Boring Location:	STA.32+92.7i 9.2 RT	Casing ID/OD: NW-3.0 in. ID	Water Level*: 12.0 ft
Hammer Efficiency Factor: 0.928		Hammer Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
WU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP = Pocket Penetrometer
WH = Unsuccessful Field Vane Shear Test Attempt.
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hammer
WOR/C = Weight of Rods or Casing
WOP = Weight of One Person
N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency
Hammer Efficiency Factor=60/Em-uncorrected
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(lab)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (ksf)
Unconfined = Raw Field SPT N-value
Hammer Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency
T_v = Pocket Torvane Shear Strength (psf)
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Spoon Strength (spf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
								26.1		-BITUMINOUS CONCRETE- 0.8	
	10	24/14	1.00 - 3.00	23/21/20/19	41	63	SSA			Brown, dry, medium dense, fine to coarse SAND, some fine to coarse gravel, trace silt -FILL-(SM) PID=7ppm	
	20	24/18	3.00 - 5.00	10/14/12/12	26	40				3-in. layer clayey SILT with sand and gravel, petroleum-like odor	
5	30	24/12	5.00 - 7.00	8/5/2/1	7	11				Brown, dry, medium dense, fine to coarse SAND, some fine to coarse gravel, trace silt -FILL-(SM) PID=10ppm	
								18.4		Brown, moist, loose, fine to medium SAND, some silt, little coarse sand, trace gravel, petroleum-like odor -FILL-(SM) PID=15ppm 8.5	
10	40	24/15	10.00 - 12.00	1/3/4/10	7	11	3				
							9				
							25				
							20	13.4		13.5	
15	50	24/6	15.00 - 17.00	3/2/4/4	6	9	5			Brown, wet, loose, fine to coarse SAND, some gravel, little silt, slight petroleum-like odor -FILL-(SM) PID=12ppm	
							15				
							27				
							30				
20							27				
	60	24/12	20.00 - 22.00	4/2/2/2	4	6	15				
							21				
							22				
							37				
							67	6.9		Brown, wet, loose WOOD, trace fine to medium sand, faint petroleum-like odor -WOOD- PID=17ppm 20.0	
								2.9		24.0	
25	70	24/4	25.00 - 27.00	8/14/28/59	42	65	35			Gray-brown, wet, dense GRAVEL (bedrock pieces), trace medium to coarse sand, trace silt, contains wood 12-in. thick -FILL-(GW) PID=17ppm	
							80				
							160/ 5	-0.6		Top of Probable Bedrock at El. -0.6	
							RC			Note: Advanced roller bit to 29.0 ft. Recovered phyllitic bedrock chips in wash water. -PROBABLE BEDROCK- 27.5	
30								-2.1		29.0	
										Bottom of Exploration at 29.0 feet below ground surface.	
35											
40											
45											
50											

Remarks:
*Water level taken after completion of boring with casing removed.
Jar samples screened with a photoionization detector (PID) by Haley & Aldrich upon completion of the subsurface exploration program. Screening was not completed in the field.

Stratification lines represent approximate boundaries between soil typest transitions may be gradual.
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: BB-HSS-201

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Grist Mill Bridge #2334 carries Route 1A/9 over Souadabscook
Location: Hampden, Maine

Boring No.: BB-HSS-101
WIN: 21692.00

Driller:	Maine Department of Transportation	Elevation (ft.): 30.5	Auger ID/OD: Hollow Stem Auger
Operator:	E. Giguere/C. Giles	Datum: NAVD 88	Sampler: Standard Split Spoon
Logged By:	B. Babcock	Rig Type: CME 45C	Hammer Wt./Fall: 140#/30"
Date Start/Finish:	7/23/09-7/23/09	Drilling Method: Cased Wash Boring	Core Barrel: NQ-2"
Boring Location:	STA.33+64.7i 111.1 RT	Casing ID/OD: HW	Water Level*: 24.3' bgs.
Hammer Efficiency Factor: 0.84		Hammer Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
WU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP = Pocket Penetrometer
WH = Unsuccessful Field Vane Shear Test Attempt.
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hammer
WOR/C = Weight of Rods or Casing
WOP = Weight of One Person
N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency
Hammer Efficiency Factor=60/Em-uncorrected
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(lab)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (ksf)
Unconfined = Raw Field SPT N-value
Hammer Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency
T_v = Pocket Torvane Shear Strength (psf)
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Spoon Strength (spf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
							HSA	29.5		-BITUMINOUS CONCRETE- 1.0	
	10	24/12	1.00 - 3.00	14/11/9/7	20	28				Brown, dry, medium dense, fine to coarse SAND, little fine to coarse gravel, trace silt, (FILL).	
	20	24/14	5.00 - 7.00	3/4/2/3	6	8				Brown, dry, loose, fine to coarse SAND, some silt, little fine to coarse gravel.	CM212329 A-2-4, SM WC=15.6%
										Brown, moist, very loose, fine to coarse SAND, little silt, trace fine gravel, trace clay.	
10	30	24/6	10.00 - 12.00	WOH/WOH/3/6	3	4				Note: Drill action indicates increased gravel at approximately 13.2 ft.	
							9				
							12				
							27				
							34			Brown, moist, medium dense, fine to coarse SAND, little silt, little fine to coarse gravel, 3-in. of coarse gravel in bottom of recovery.	
15	40	24/10	15.00 - 17.00	4/12/9/15	21	29	65				
							96				
							96				
							93				
							115			Note: Cobble encountered from approximately 19.9 to 20.5 ft. Grey with brown, wet, medium dense, fine to coarse GRAVEL, little silt, trace fine sand.	
	50	24/4	20.50 - 22.50	9/6/6/15	12	17	35				
							52				
							110				
20							108				
	60	24/8	25.00 - 27.00	4/12/13/27	25	35	0225 BLOWS AHEAD				
	R1	38.4/30	27.10 - 30.30	RQD = 11%			NQ-2	3.4		Brown, wet, medium dense, coarse SAND, little fine to medium sand, some coarse to fine gravel. 0225 blows for 10 in. 097 blows for 8 in. Washed ahead to 27.1 ft with roller bit, then drove casing to 26.5 ft, then began coring at 27.1 ft.	
25										Top of Bedrock at El. 3.4	
	R2	56.4/ 56.4	30.30 - 35.00	RQD = 91%				0.2		R1:Grey, aphanitic, PHYLLITE, moderately hard, slightly weathered, moderately dipping with occasional low angle joints, very close to close, open to healed, discolored, slightly weathered, secondary vertical joint approximately 29.6 to 30.0 ft, open, discolored, slightly weathered, occasional calcite veins typicality at 45 degrees to core axis, loss of last recovery probably between 28.0 to 29.0 ft, highly fractured zone approximately 29.0 to 30.0 ft. -BANGOR FORMATION- Rock Mass Quality=Very Poor R1:Core Times (min:sec): 27.1-28.1' (4:13); 28.1-29.1' (3:52); 29.1-30.1' (3:58); 30.1-30.3' (4:00) 79% Recovery Note: Core barrel jammed, probable cause vertical fracturing, 100% water loss during core.	qu=10.627 psi (30.64' - 31.0')
	R3	36/36	35.00 - 38.00	RQD = 94%				-4.5		30.3 R2:Grey, aphanitic, PHYLLITE, moderately hard, very slightly weathered, low angle to moderately dipping joints, moderately close, open, discolored to moderately weathered, slightly to moderately weathered joint at 34.0 ft. -BANGOR FORMATION- Rock Mass Quality=Excellent R2:Core Times (min:sec): 30.3-31.3' (3:01); 31.3-32.3' (4:17); 32.3-33.3' (4:38); 33.3-34.3' (4:26); 34.3-35.0' (4:25) 100% Recovery Note: Core barrel jammed, 100% water loss during core.	
								-7.5		R3:Grey, aphanitic, PHYLLITE, moderately hard, fresh, moderately dipping joints, close, open, discolored to fresh. -BANGOR FORMATION- Rock Mass Quality=Excellent R3:Core Times (min:sec): 35.0-36.0' (4:10); 36.0-37.0' (4:09); 37.0-38.0' (3:57) 100% Recovery	
40										38.0	
45										Bottom of Exploration at 38.0 feet below ground surface.	
50											

Remarks:

Stratification lines represent approximate boundaries between soil typest transitions may be gradual.
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Page 1 of 1
Boring No.: BB-HSS-101

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Grist Mill Bridge #2334 Over Souadabscook Stream
Location: Hampden, Maine

Boring No.: BB-HSS-203
WIN: 21692.00

Driller:	Maine Department of Transportation	Elevation (ft.): 35.5	Auger ID/OD: --
Operator:	T. Doggett	Datum: NAVD 88	Sampler: Split-Spoon 1.375 in.
Logged By:	W. Snow	Rig Type: CME 45C	Hammer Wt./Fall: SS-140#/30i NW 140#/30
Date Start/Finish:	7-25-18/7-25-18	Drilling Method: SSA/NW Drive	Core Barrel: --
Boring Location:	STA.34+50.9i 16.1 RT	Casing ID/OD: NW-3.0 in. ID	Water Level*: 11.0 ft
Hammer Efficiency Factor: 0.928		Hammer Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
WU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP = Pocket Penetrometer
WH = Unsuccessful Field Vane Shear Test Attempt.
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hammer
WOR/C = Weight of Rods or Casing
WOP = Weight of One Person
N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency
Hammer Efficiency Factor=60/Em-uncorrected
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(lab)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (ksf)
Unconfined = Raw Field SPT N-value
Hammer Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency
T_v = Pocket Torvane Shear Strength (psf)
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Spoon Strength (spf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
							SSA	34.3		-BITUMINOUS CONCRETE- 1.2	
	10	24/6	1.00 - 3.00	4/4/4/5	8	12				Brown, dry, loose, fine to coarse SAND, trace silt, trace clay, trace gravel -FILL-(SM) PID=8.8ppm	
	20	24/10	5.00 - 7.00	5/3/2/3	5	8				Brown, moist, loose, fine to coarse SAND, little silt, little gravel -FILL-(SM) PID=5.7ppm	
5	30	24/5	5.00 - 7.00	4/4/3/2	7	11				Brown, wet, loose, fine to coarse SAND, some silt, little gravel -FILL-(SM) PID=11ppm	
								27.0		7.5	
10	40+	24/19	10.20 - 12.20	6/13/10/11	23	36	16			Brown, wet, medium dense, clayey fine SAND, trace medium to coarse sand, trace gravel -FILL-(SC) PID=10ppm	
							10			#Note: Casing advanced below sample 40 depth. Sample recovered inside casing prior to washing out.	
							16				
							21				
							30			Brown, wet, medium dense, clayey fine to coarse SAND, 3-in. thick layer of gravel (crushed rock) -FILL-(SC) PID=5.5ppm	
15	50	24/4	15.00 - 17.00	13/7/5/4	12	19	22				
							22				
							20				
							30				
20	60	24/9	20.00 - 22.00	8/8/11/14	19	29	38			Brown, wet, very stiff CLAY, some gravel, little fine to coarse sand, contains brick -FILL-(CL) PID=1ppm	
							34	14.0		18.5	
							74			Note: Washed ahead of casing from 20.0 to 25.0 ft. Drill action and wash water contents indicate gravel/ cobbles from approximately 21.5 to 25.0 ft. 21.5	
							174				
							173				
25	70	6/3	25.00 - 25.50	13/20/(0")			RC	9.8		Brown to rust-brown, wet, dense, silty fine to coarse SAND, little gravel (rusty weathered rock pieces) -FILL-(SM) PID=2.5ppm Note: Split-spoon refusal at 25.5 ft. Advanced roller bit to 25.7 ft.	
								7.3		25.7 Top of Probable Bedrock at El. ~9.8 Note: Advanced roller bit to 28.2 ft. occasional weathered bedrock seams (2-in. thick) -PROBABLE BEDROCK- 28.2	
30										Bottom of Exploration at 28.2 feet below ground surface.	
35											
40											
45											
50											

Remarks:
*Water level taken after completion of boring with casing removed.
Jar samples screened with a photoionization detector (PID) by Haley & Aldrich upon completion of the subsurface exploration program. Screening was not completed in the field.

Stratification lines represent approximate boundaries between soil typest transitions may be gradual.
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Page 1 of 1
Boring No.: BB-HSS-203

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Grist Mill Bridge #2334 Over Souadabscook Stream
Location: Hampden, Maine

Boring No.: BB-HSS-204
WIN: 21692.00

Driller:	Maine Department of Transportation	Elevation (ft.): 37.9	Auger ID/OD: --
Operator:	T. Doggett	Datum: NAVD 88	Sampler: Split-Spoon 1.375 in.
Logged By:	W. Snow	Rig Type: CME 45C	Hammer Wt./Fall: SS-140#/30i NW 140#/30
Date Start/Finish:	7-25-18/7-24-18	Drilling Method: SSA/NW Drive	Core Barrel: --
Boring Location:	STA.34+88.1i 55.1 RT	Casing ID/OD: NW-3.0 in. ID	Water Level*: 8.2 ft
Hammer Efficiency Factor: 0.928		Hammer Type: Automatic ☒ Hydraulic ☐	Rope & Cathead ☐

Definitions:
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MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
WU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP = Pocket Penetrometer
WH = Unsuccessful Field Vane Shear Test Attempt.
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hammer
WOR/C = Weight of Rods or Casing
WOP = Weight of One Person
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Hammer Efficiency Factor=60/Em-uncorrected
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(lab)}$ = Lab Vane Undrained Shear Strength (psf)
q_u = Unconfined Compressive Strength (ksf)
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Hammer Efficiency Factor = Rig Specific Annual Calibration Value
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WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Spoon Strength (spf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
							SSA	37.0		-BITUMINOUS CONCRETE- 0.9	
	10	24/16	1.00 - 3.00	4/4/6/5	10	15				Brown, damp, loose, fine to coarse SAND, little silt, little gravel -FILL-(SM) PID=15ppm	
	20	24/11	3.00 - 5.00	3/2/2/2	4	6				Brown, moist, very loose, clayey fine to coarse SAND, little gravel, slight petroleum-like odor -FILL-(SC) PID=7ppm 5.0	
5	30	24/5	5.00 - 7.00	2/2/2/2	4	6				Brown, moist, very loose, fine to medium SAND, some silt, little coarse sand, trace gravel, petroleum-like odor -FILL-(SM) PID=3.5ppm	
								29.4		8.5	
10	40	24/16	10.00 - 12.00	3/6/8/3	14	22	5			Brown, moist to wet, medium dense, clayey fine SAND, little coarse to medium sand, trace gravel, trace brick, petroleum-like odor -FILL-(SC) PID=16ppm	
							24				
							26				
							15				
							23	22.9		Gray, wet, very soft SILT, trace fine sand, slight organic odor -MARINE DEPOSIT-(ML) PID=15ppm 15.0	
15	50/4	24/13	15.00 - 17.00	WOH/6/8/28	14	22	8	22.3		15.6	
							9			Brown, wet, medium dense, fine to coarse SAND, some silt, little gravel, well bonded -GLACIAL TILL-(SM) PID=13ppm	
							116	20.6		17.3	
							70	20.0		-COBBLE- Note: Washed ahead of casing from 17.0 to 20.0 ft, and from 20.0 to 25.0 ft, soil samples not recorded. Brown to rust-brown, wet, very dense, coarse SAND and fine GRAVEL, some silt, little fine to medium sand, weathered rock fragments, well bonded -GLACIAL TILL-(SM/GM) PID=5ppm 17.5	
							64	17.4		-BOULDER/COBBLES- 20.5	
20	60	6/6	20.00 - 20.50	125(6")			NR			23.0	
								14.9		Brown to rust-brown, wet, very dense, coarse SAND and fine GRAVEL, little silt, rock lodged in spoon tip -GLACIAL TILL-(SP-SM/GP-GM) PID=0ppm 25.5	
								12.4		Top of Probable Bedrock at El. 12.4 Note: Advanced roller bit to 29.0 ft. Recovered bedrock chips in wash water. -PROBABLE BEDROCK- 29.0	
25	70	2/2	25.00 - 25.17	20(2")/50(0")			RC	8.9			
										Bottom of Exploration at 29.0 feet below ground surface.	
30											
35											
40											
45											
50											

Remarks:
*Water level taken after completion of boring with casing removed.
Jar samples screened with a photoionization detector (PID) by Haley & Aldrich upon completion of the subsurface exploration program. Screening was not completed in the field.

Stratification lines represent approximate boundaries between soil typest transitions may be gradual.
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: BB-HSS-204

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-21692(200)

WIN 21692.00
BRIDGE NO. 2334
BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	W.FRANKHAUSER	
DESIGN-DETAILED		
CHECKED-REVIEWED	N.SHERWOOD	JAN 2019
DESIGN2-DETAILED2	T. WHITE	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

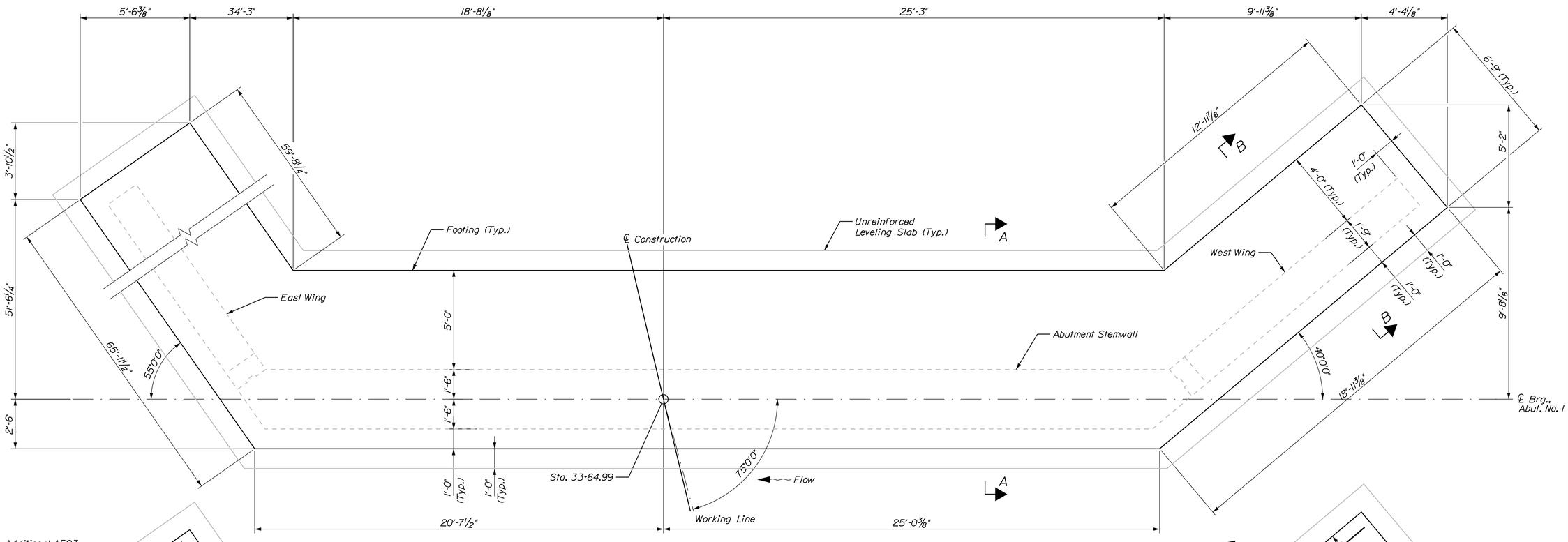
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DATE

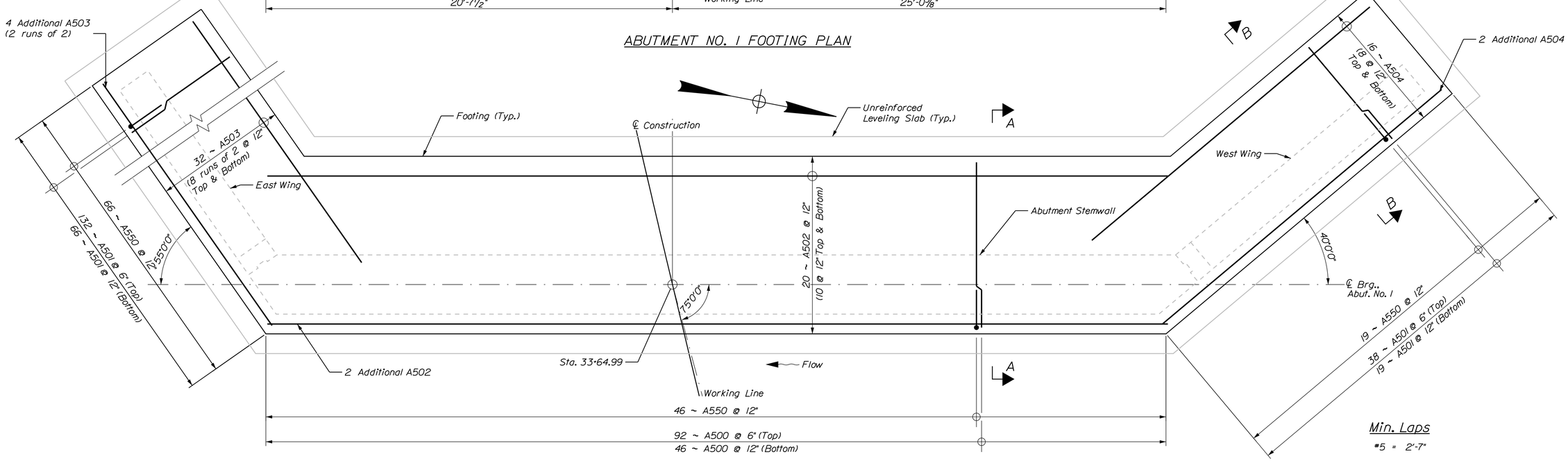
GRIST MILL BRIDGE
SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

BORING LOGS RT OF ℄

SHEET NUMBER
43
OF 213



ABUTMENT NO. 1 FOOTING PLAN



ABUTMENT NO. 1 FOOTING REINFORCEMENT PLAN

Min. Laps

#5 = 2'-7"

Notes:

1. See sheet "Abutment No. 2 Footing Plan & Reinforcement" for footing notes.
2. See sheet "Abutment Details" for sections.

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	L. TIMBERLAKE	
DESIGN-DETAILED	B. Toothaker	12/2018
CHECKED-REVIEWED	B. Mala	12/2018
DESIGN2-DETAILED2	C. Taylor	12/2018
DESIGN3-DETAILED3	B. Toothaker	12/2018
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

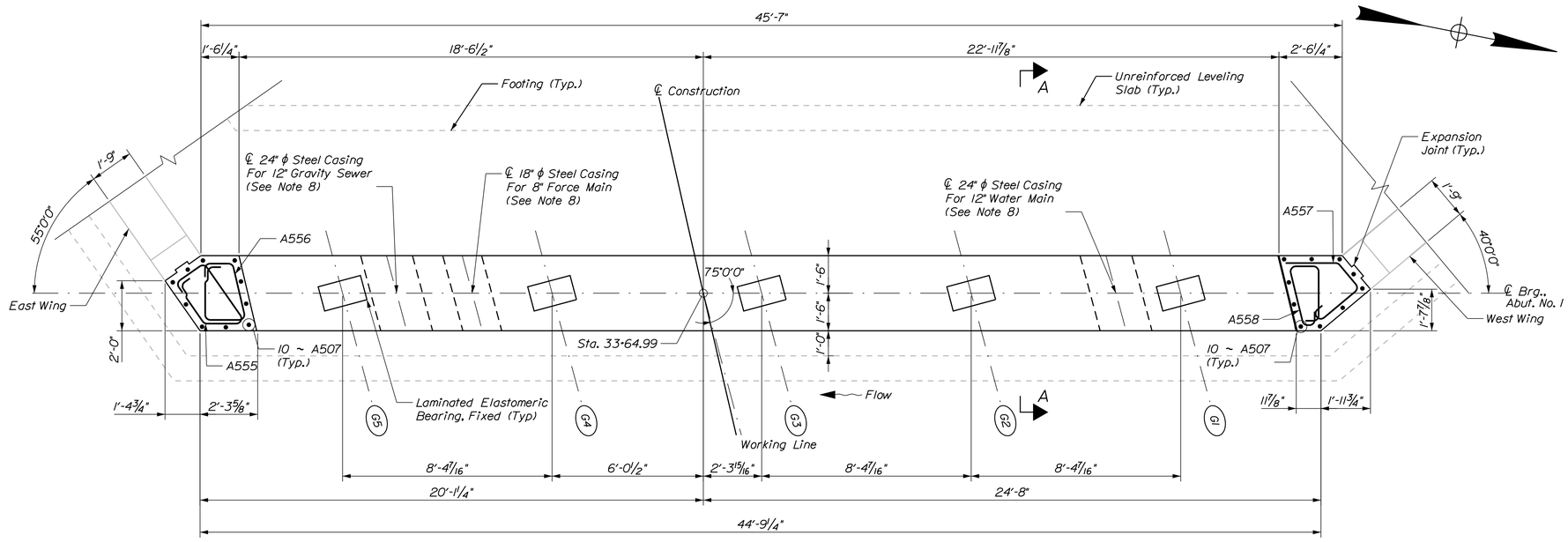
ABUTMENT NO. 1 FOOTING
PLAN & REINFORCEMENT

SHEET NUMBER

44

OF 213

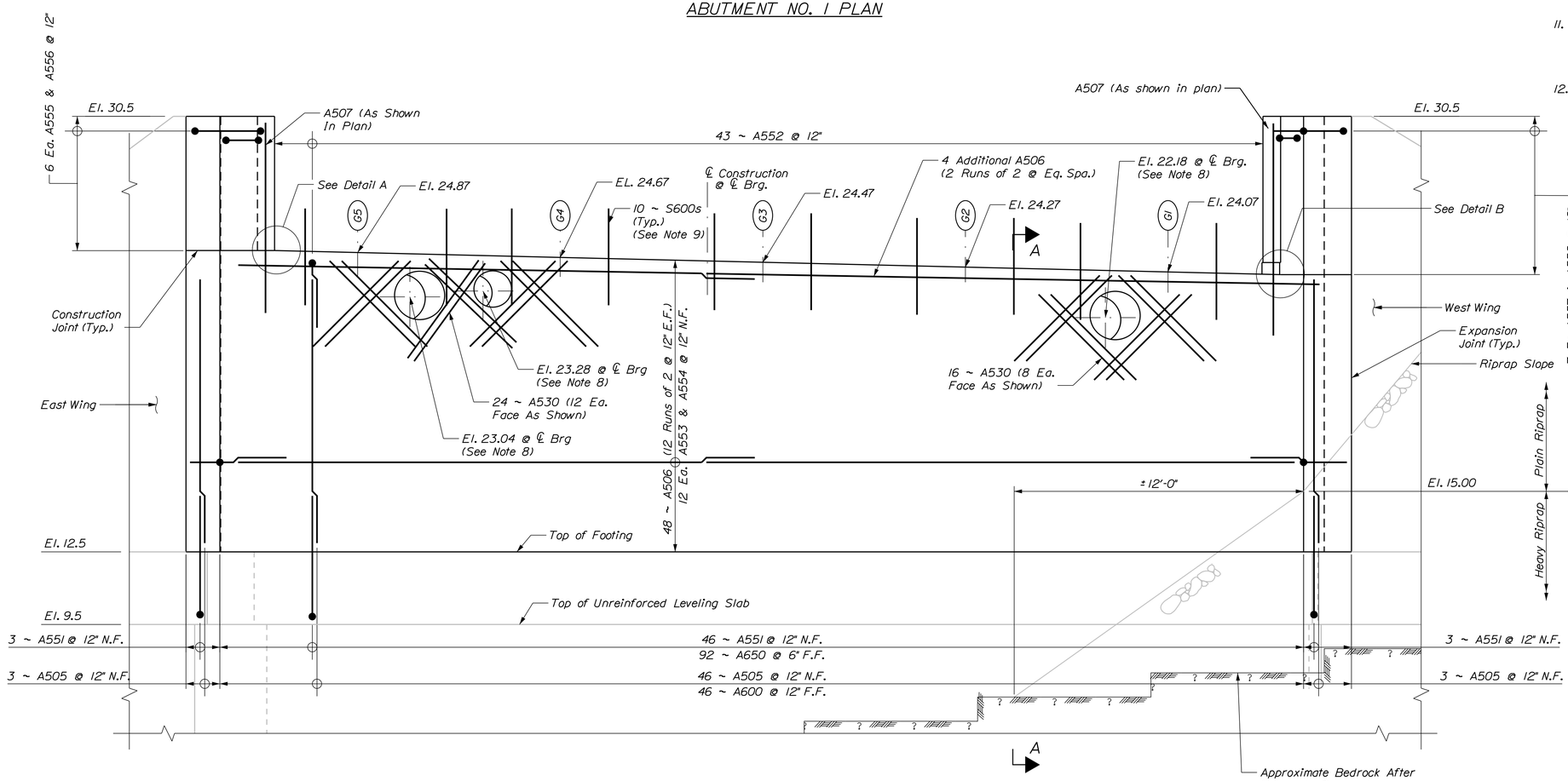
Filename: ...\xxx_Abutment_1_Footing_Plan_Reinf.dgn Division: HIGHWAY Username: Date:3/7/2019



ABUTMENT NO. 1 PLAN

ABUTMENT NOTES:

1. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
2. Cover joints where waterstops are not required in accordance with Standard Detail 502 (01).
3. Place 4 inch diameter drains in breastwall and wingwalls at 10 foot maximum spacing. The exact location will be determined by the Resident.
4. Construct French Drains behind the abutments and wingwalls in accordance with Standard Specification Section 512, French Drains.
5. See sheet "Abutment Sections" for Section A-A.
6. See sheet "Abutment 1 Wingwall Plan & Elevation" for East Wing and West Wing details.
7. Concrete in abutment stems, wingwalls, and footings shall be paid under Item 502.219, "Structural Concrete, Abutments and Retaining Walls". Concrete in leveling slab shall be paid under Item 502.565 "Concrete Fill".
8. See Utility Detail sheets for additional details on utility placement.
9. Dowels into backwall shall be placed to avoid conflicts with utility penetrations and beams. For additional information on placement, see sheet "Backwall Reinforcement Details".
10. Vertical and horizontal bars in direct conflict with the utility penetrations shall be cut in field or adjusted to fit around penetrations, as directed by The Resident.
11. Abutments, wings, and their footings shall be backfilled with Granular Borrow. Pay limits will be the structural excavation limits in cut areas and a vertical plane located 10 feet behind the wall in fill areas.
12. For Details A and B see "Abutment No. 1 Backwall Plan and Elevation".



ABUTMENT NO. 1 ELEVATION

Min. Laps

#5 = 2'-0" (Vert) 2'-7" (Horz)
#6 = 2'-5"

LEGEND:

N.F. = Near Face
F.F. = Far Face
E.F. = Each Face

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)
WIN 021692.00
BRIDGE NO. 2334
BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	L. TIMBERLAKE	
DESIGN-DETAILED	B. Toothaker	12/2018
CHECKED-REVIEWED	C. Taylor	12/2018
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

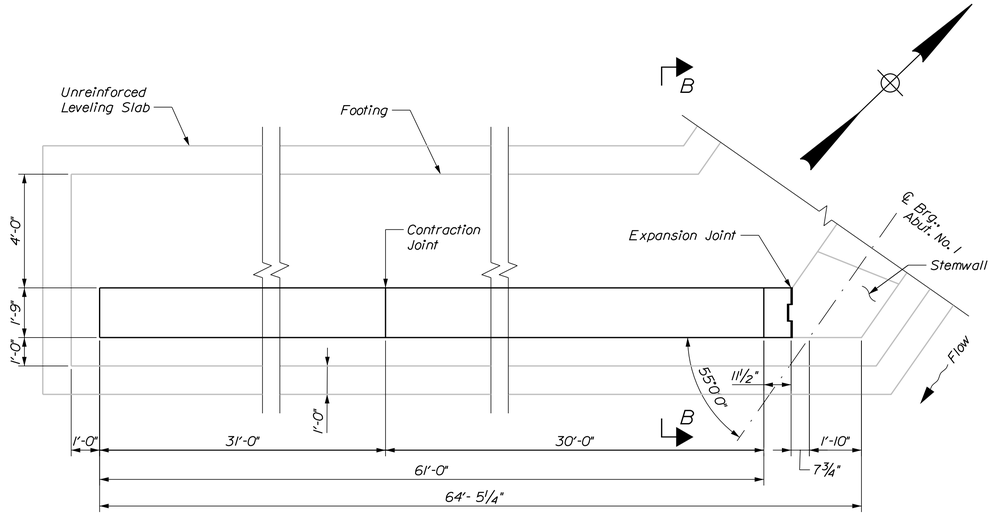
SIGNATURE
P.E. NUMBER
DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

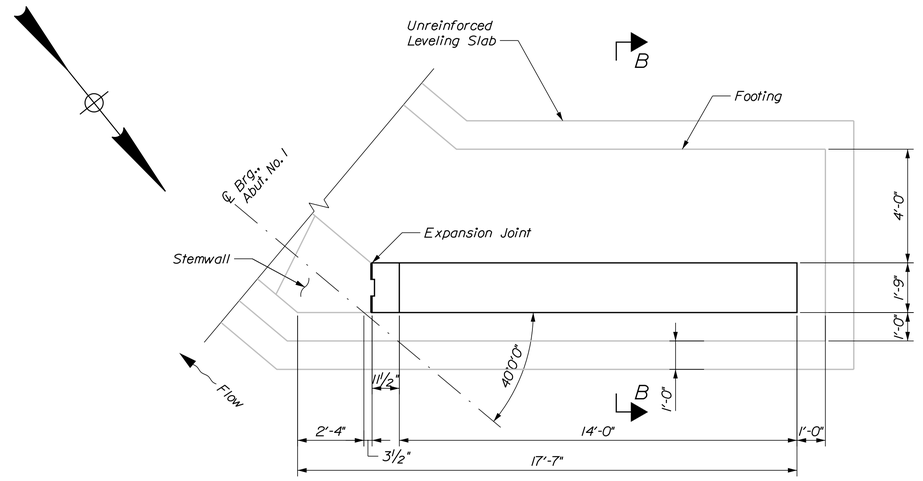
ABUTMENT NO. 1 PLAN & ELEVATION

SHEET NUMBER
45
OF 213

Filename: ...\xxx_Abutment_1_Plan_Elev.dgn Username: Division: HIGHWAY Date:3/7/2019



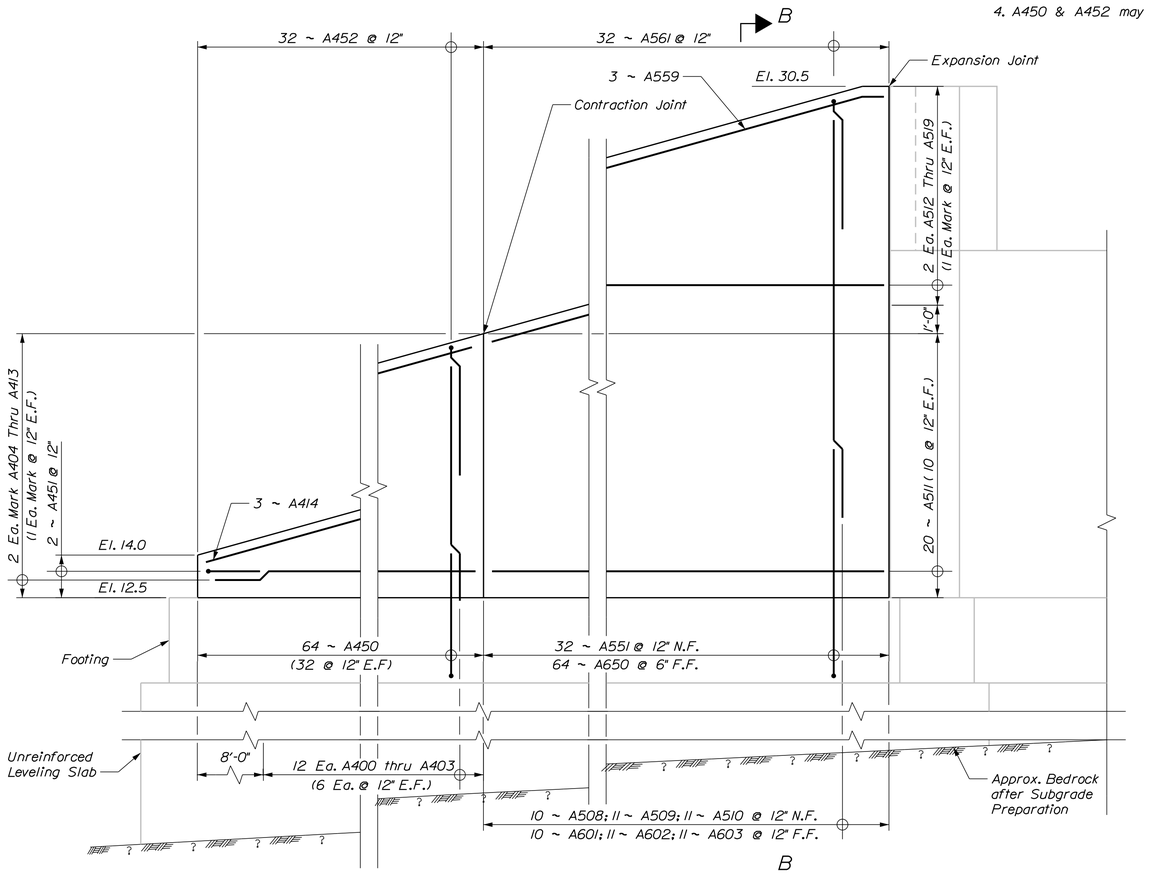
ABUTMENT NO. 1 EAST WING PLAN



ABUTMENT NO. 1 WEST WING PLAN

NOTES:

1. See Standard Details for expansion joint details.
2. See sheet "Abutment No. 1 Plan & Elevation" for additional details and notes.
3. Minimum lap not required with A452 bars.
4. A450 & A452 may be cut to fit in short end of East Wingwall.



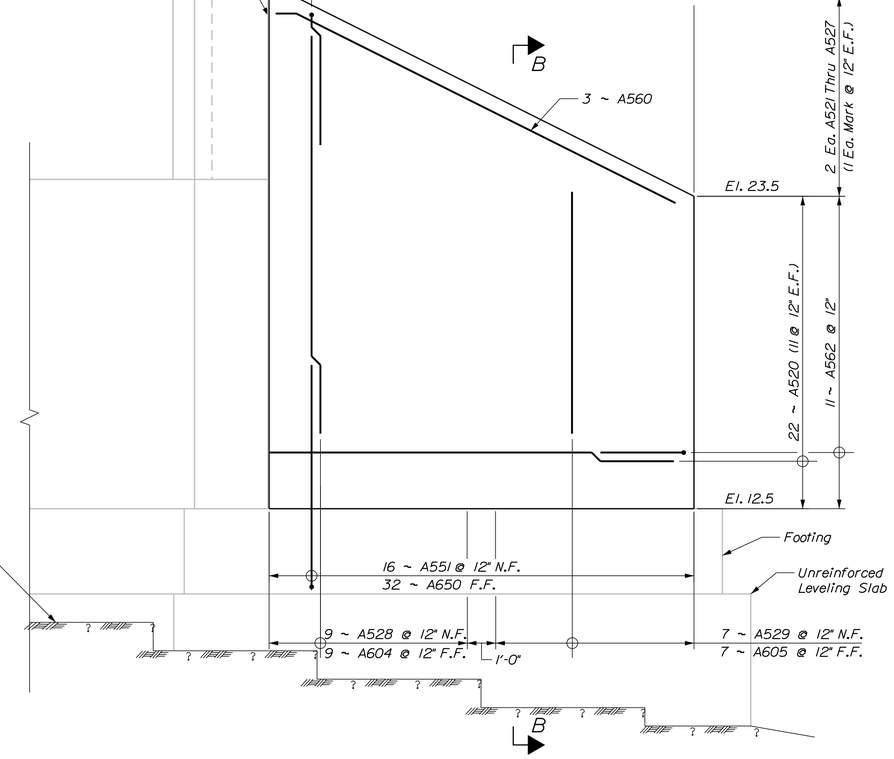
ABUTMENT NO. 1 EAST WING ELEVATION

MIN. LAPS

*4 = 1'-8"
*5 = 2'-0" (Vert.)
= 2'-7" (Horz.)
*6 = 2'-5"

LEGEND:

N.F. = Near Face
F.F. = Far Face
E.F. = Each Face



ABUTMENT NO. 1 WEST WING ELEVATION

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	L. TIMBERLAKE	
DESIGN-DETAILED	B. Toothaker	12/2018
CHECKED-REVIEWED	C. Taylor	12/2018
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

ABUTMENT NO. 1 WINGWALL PLAN & ELEVATION

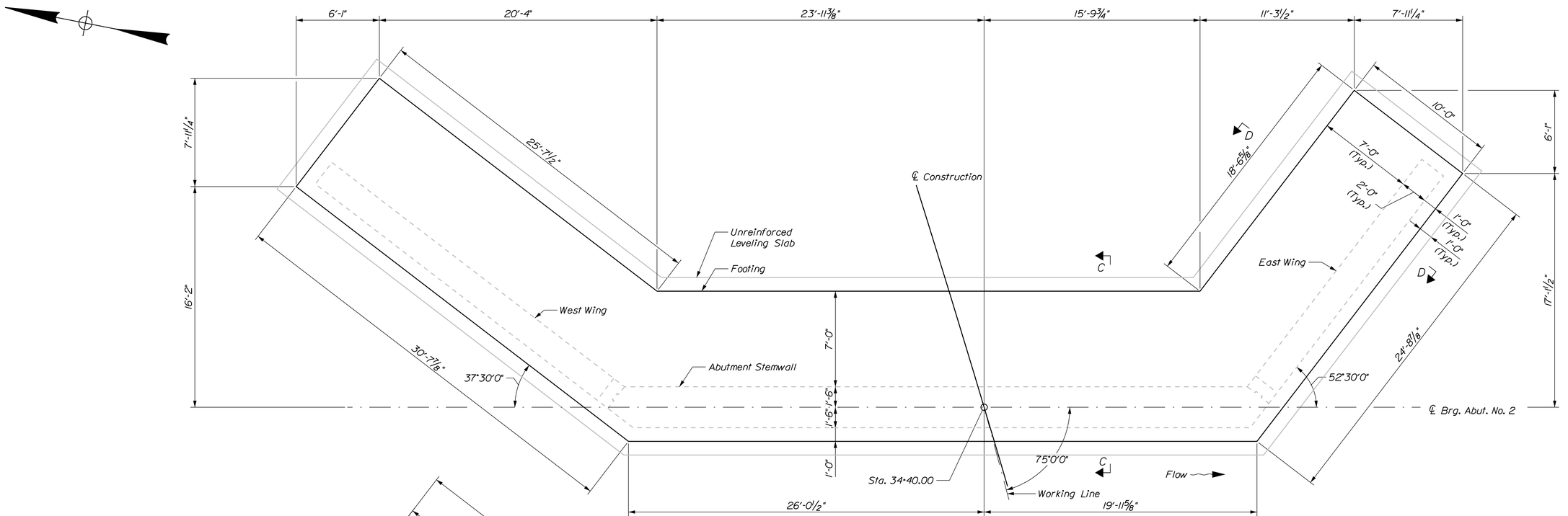
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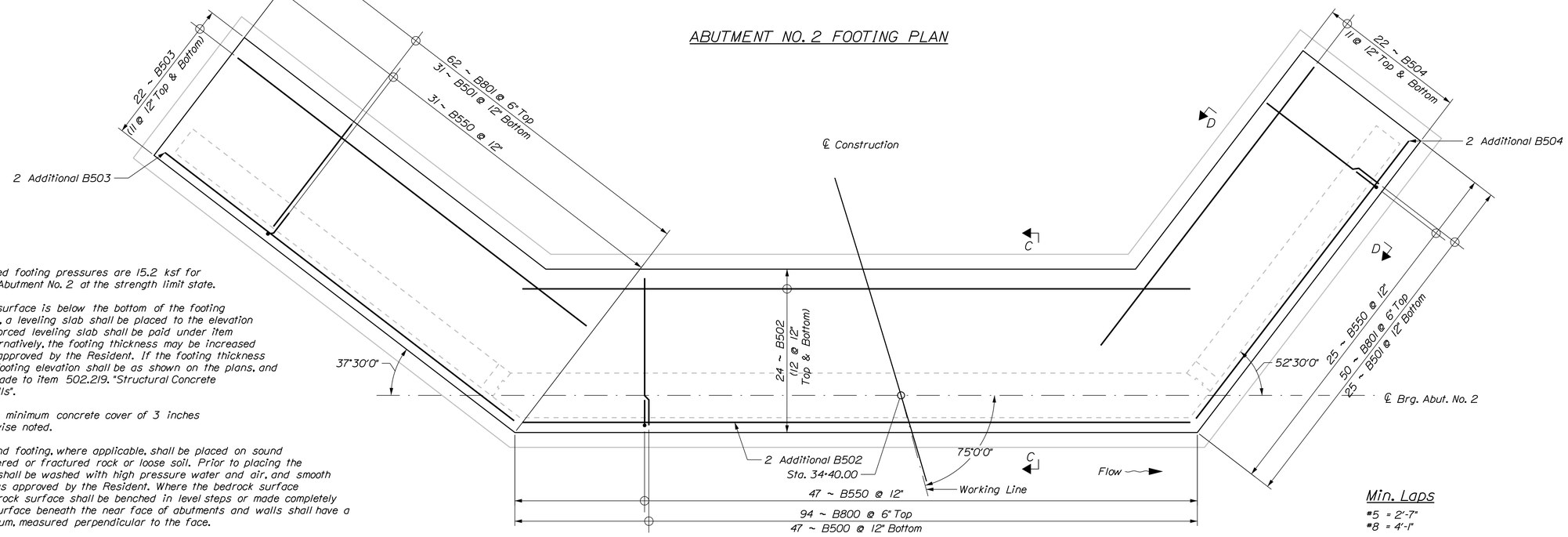
OF 213

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Filename: ...\xxx_Abutment_2_Footing_Plan_Reinf.dgn Division: HIGHWAY Username: Date:3/7/2019



ABUTMENT NO. 2 FOOTING PLAN



ABUTMENT NO. 2 REINFORCEMENT PLAN

Min. Laps

#5 = 2'-7"
#8 = 4'-1"

FOOTING NOTES:

1. The maximum factored applied footing pressures are 15.2 ksf for Abutment No. 1 & 16.1 ksf for Abutment No. 2 at the strength limit state.
2. When the prepared bedrock surface is below the bottom of the footing elevation shown on the plans, a leveling slab shall be placed to the elevation shown on the plans. Unreinforced leveling slab shall be paid under item 502.565, "Concrete Fill". Alternatively, the footing thickness may be increased up to an additional 1 foot as approved by the Resident. If the footing thickness is increased, the top of the footing elevation shall be as shown on the plans, and no pay adjustment shall be made to item 502.219, "Structural Concrete Abutments and Retaining Walls".
3. Reinforcing steel shall have a minimum concrete cover of 3 inches in the footings unless otherwise noted.
4. Unreinforced leveling slab and footing, where applicable, shall be placed on sound bedrock cleaned of all weathered or fractured rock or loose soil. Prior to placing the footing, the bearing surface shall be washed with high pressure water and air, and smooth bedrock shall be roughened, as approved by the Resident. Where the bedrock surface slope exceeds 4H:1V the bedrock surface shall be benched in level steps or made completely level. The bedrock bearing surface beneath the near face of abutments and walls shall have a level surface of 3 feet minimum, measured perpendicular to the face.
5. Concrete in footings shall be paid under item 502.219, "Structural Concrete, Abutments and Retaining Walls".
6. Factored bearing resistances of the bedrock material are 20 ksf for the service limit state; 32 ksf for the strength limit state; and 57 ksf for the extreme event limit state.
7. Resident and/or Project Geotechnical Engineer shall confirm final bedrock subgrade surface prior to unreinforced leveling slab pour.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334 — BRIDGE PLANS

PROJ. MANAGER	L.TIMBERLAKE	BY	DATE
DESIGN-DETAILED	B. Toothaker	B. Melo	12/2018
CHECKED-REVIEWED	B. Toothaker	B. Toothaker	12/2018
DESIGN2-DETAILED2	C. Taylor		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN — PENOBSCOT COUNTY

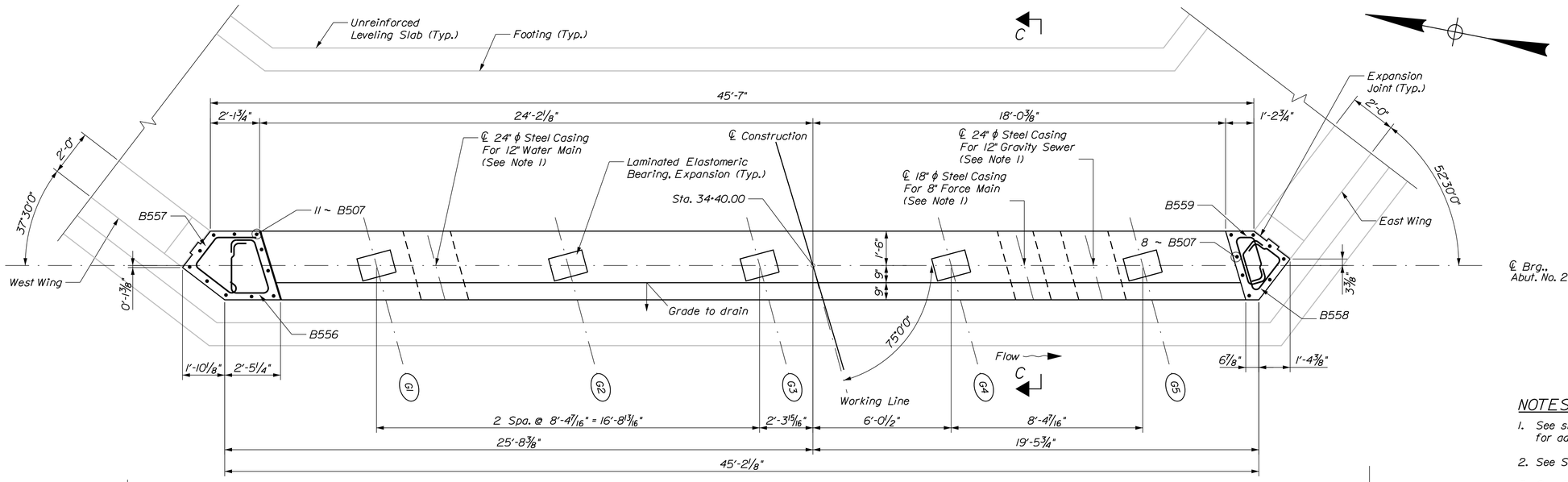
ABUTMENT NO. 2 FOOTING PLAN & REINFORCEMENT

SHEET NUMBER

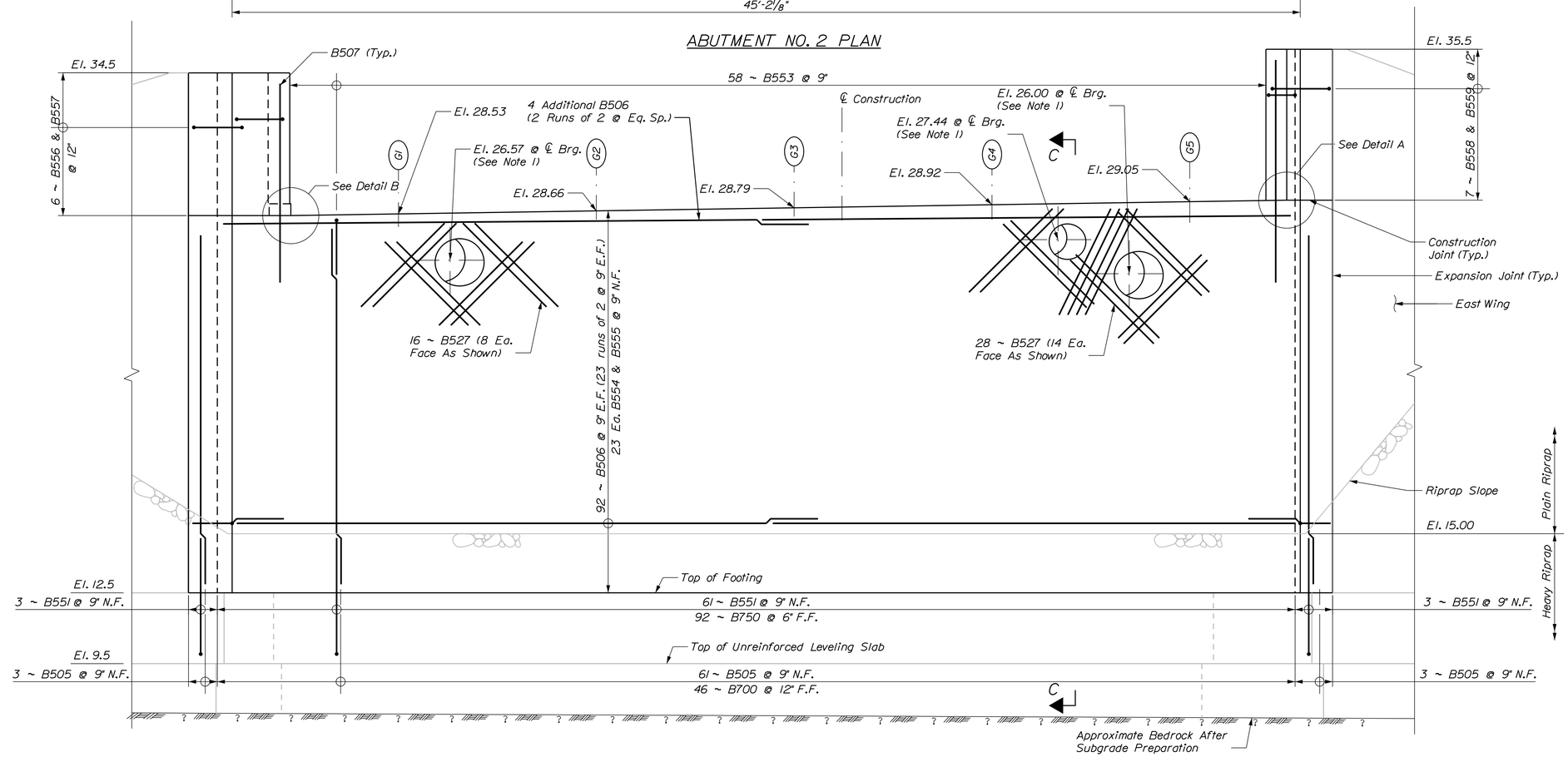
47

OF 213

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ABUTMENT NO. 2 PLAN



ABUTMENT NO. 2 ELEVATION

NOTES:

1. See sheet "Abutment No. 1 Plan & Elevation" for additional details and notes.
2. See Sheet "Abutment Sections" For Section C-C.
3. See Sheet "Abutment No. 2 Wingwall Plan & Elevation" for wingwall details.
4. See Sheet "Abutment No. 1 Backwall Plan and Elevation" for Details A & B.

Min. Laps

#5 = 2'-0" (Vert.)
2'-7" (Horz.)
#7 = 2'-9"

LEGEND:

N.F. = Near Face
F.F. = Far Face
E.F. = Each Face

T.Y.LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)
WIN 021692.00
BRIDGE NO. 2334
BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	L.TIMBERLAKE	
DESIGN-DETAILED	B. Toothaker	R. Mallo 12/2018
CHECKED-REVIEWED	C. Taylor	B. Toothaker 12/2018
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

P.E. NUMBER

SIGNATURE

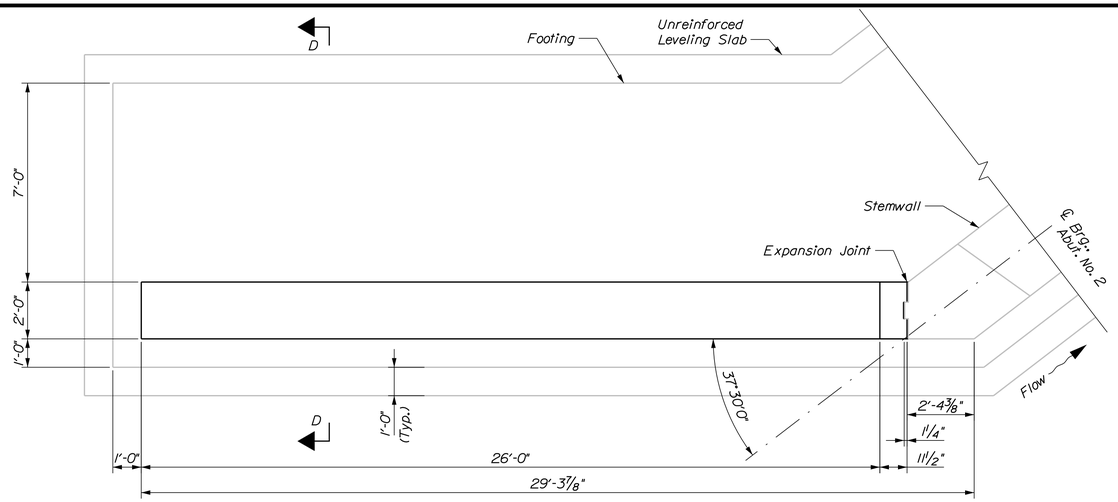
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GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

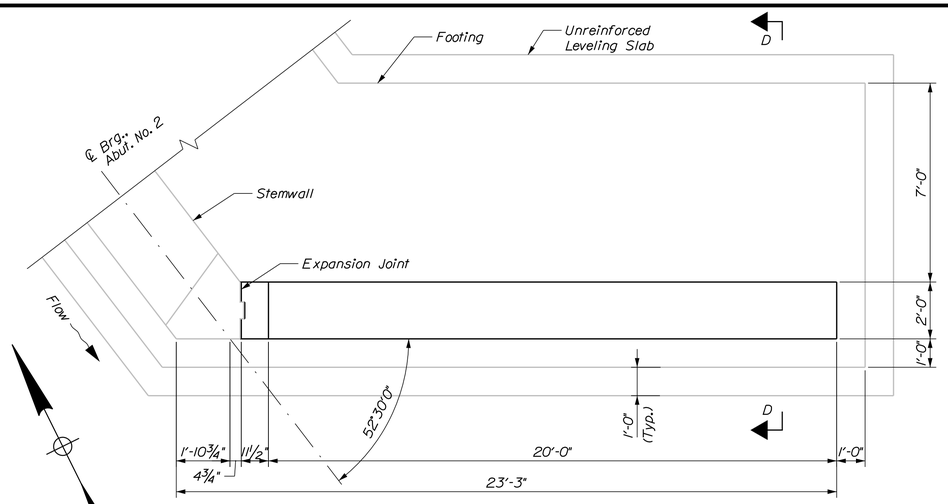
ABUTMENT NO. 2
PLAN & ELEVATION

SHEET NUMBER
48
OF 213

Filename: ...\xxx_Abutment_2_Plan_Elev.dgn Division: HIGHWAY Username: Date:3/7/2019



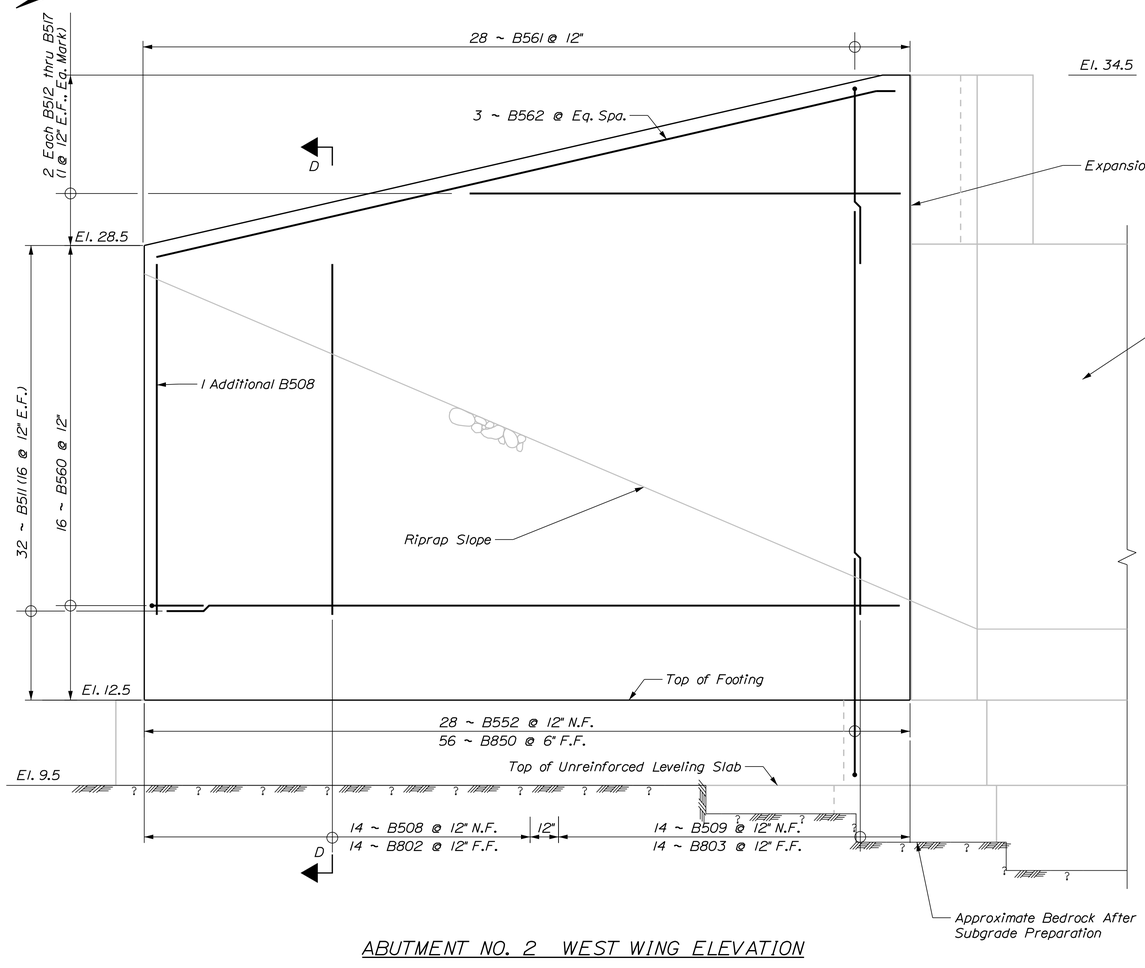
ABUTMENT NO. 2 WEST WING PLAN



ABUTMENT NO. 2 EAST WING PLAN

NOTES:

1. See Standard Detail 502(01) for expansion joint details.
2. See sheet "Abutment No. 2 Plan & Elevation" for additional details.



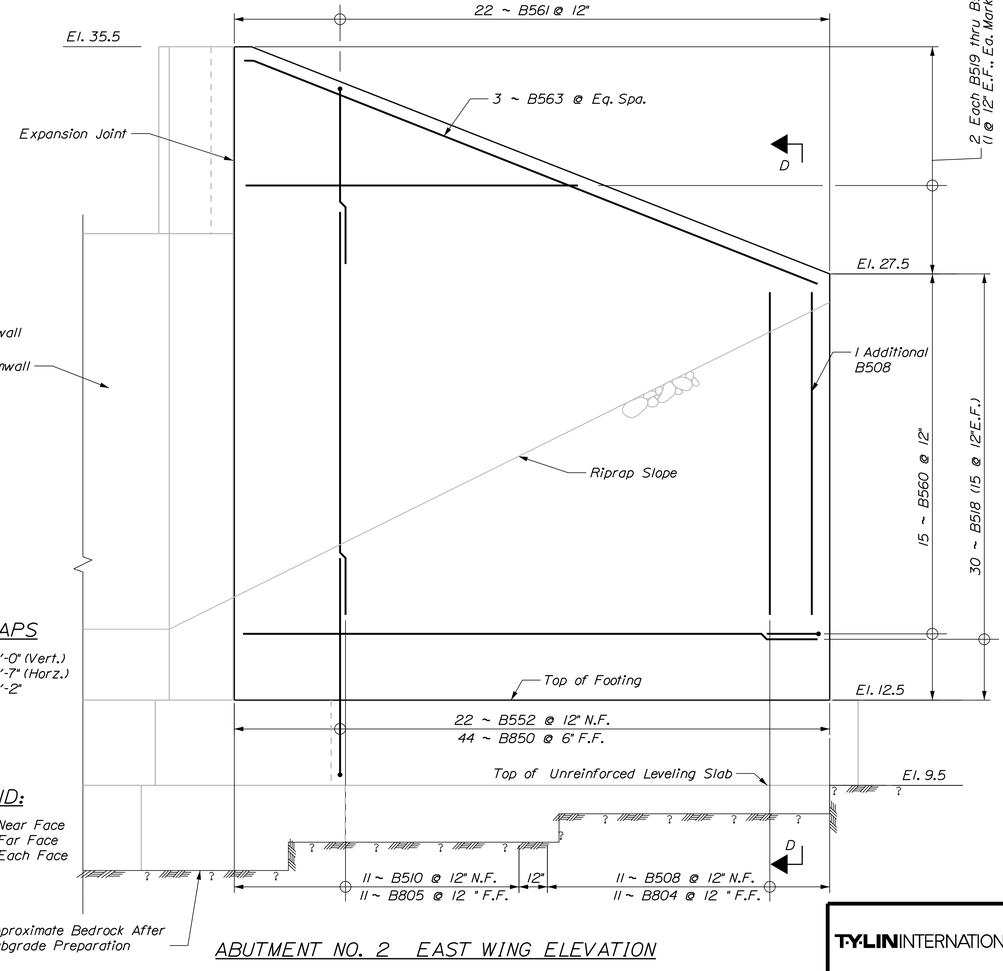
ABUTMENT NO. 2 WEST WING ELEVATION

MIN. LAPS

#5 = 2'-0" (Vert.)
= 2'-7" (Horz.)
#8 = 3'-2"

LEGEND:

N.F. = Near Face
F.F. = Far Face
E.F. = Each Face



ABUTMENT NO. 2 EAST WING ELEVATION

T.Y.LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334

BRIDGE PLANS

			DATE
PROJ. MANAGER	L.TIMBERLAKE	BY	
DESIGN-DETAILED	B. Toothaker	B. Mala	12/2018
CHECKED-REVIEWED	C. Taylor	B. Toothaker	12/2018
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

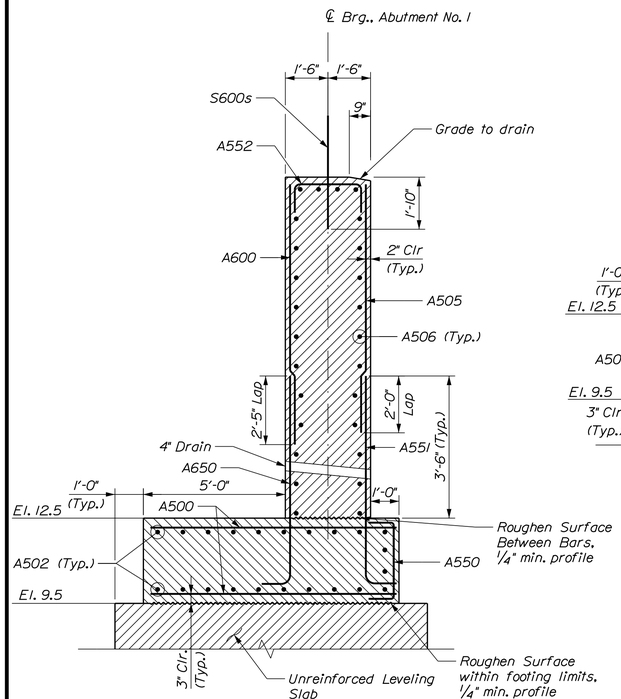
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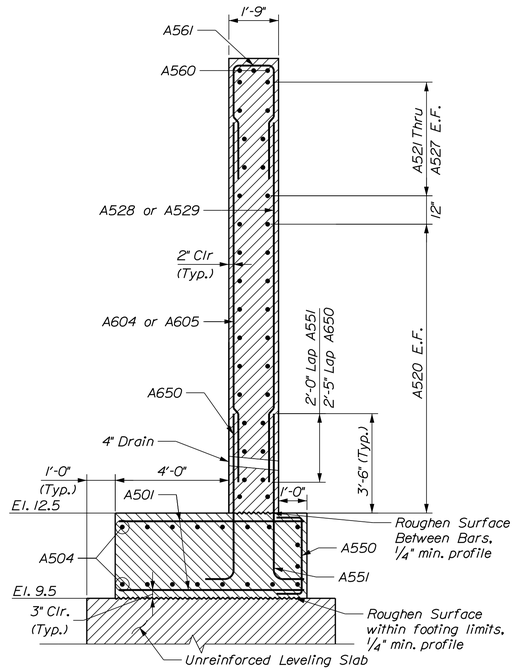
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OF 213

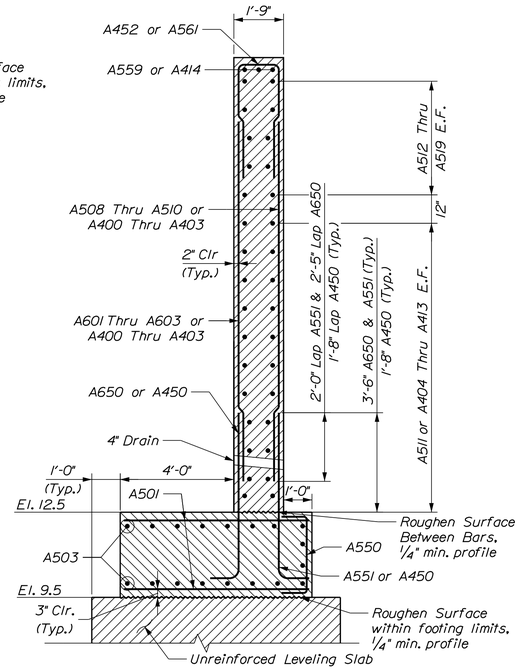
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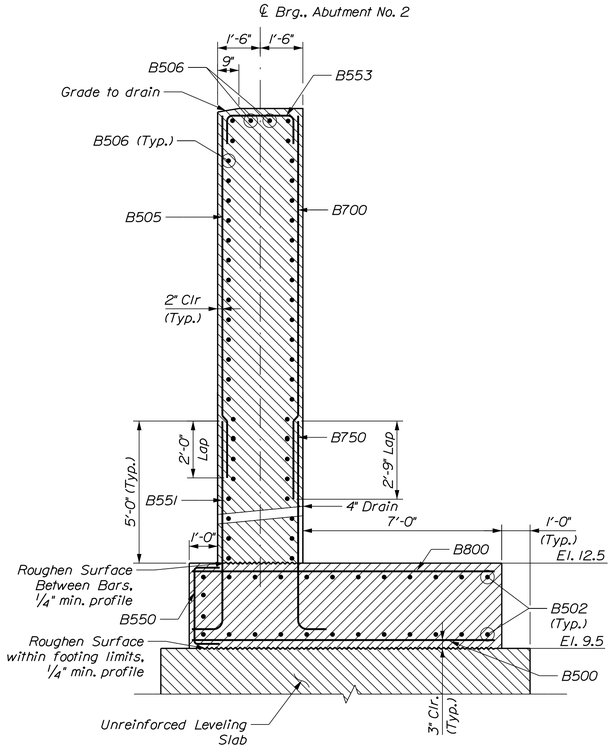
SECTION A-A
(ABUTMENT NO. 1)



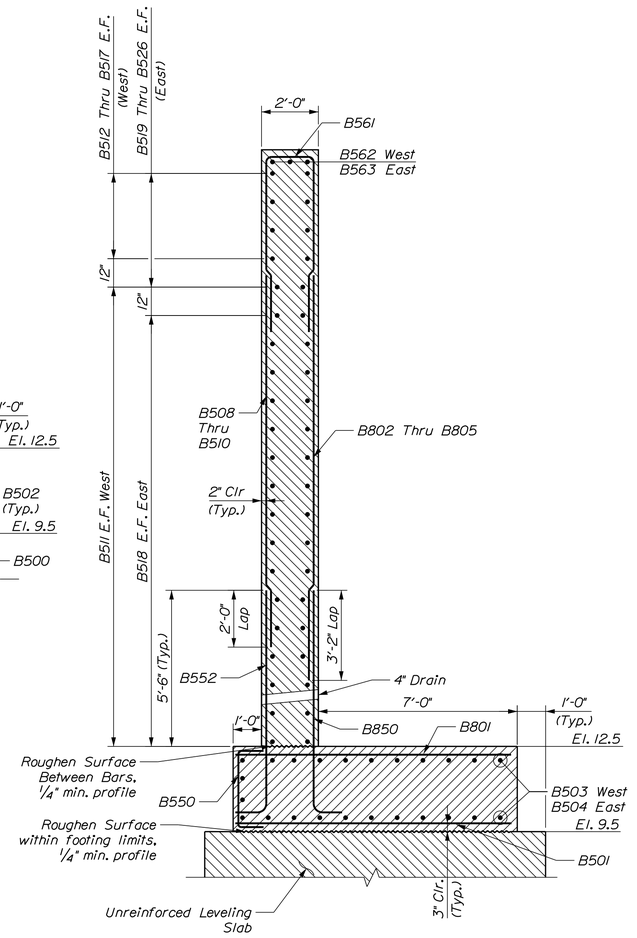
SECTION B-B
(ABUTMENT NO. 1 WEST WING)



SECTION B-B
(ABUTMENT NO. 1 EAST WING)



SECTION C-C
(ABUTMENT NO. 2)



SECTION D-D
(ABUTMENT NO. 2 WINGS)

NOTES:
1. See sheet "Abutment No. 1 Plan & Elevation" for Abutment Notes.

LEGEND:
N.F. = Near Face
F.F. = Far Face
E.F. = Each Face

T.Y.LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	L. TIMBERLAKE	
DESIGN-DETAILED	B. Toothaker	12/18
CHECKED-REVIEWED	B. Mallo	12/18
DESIGN2-DETAILED2	C. Taylor	
DESIGN3-DETAILED3	B. Toothaker	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

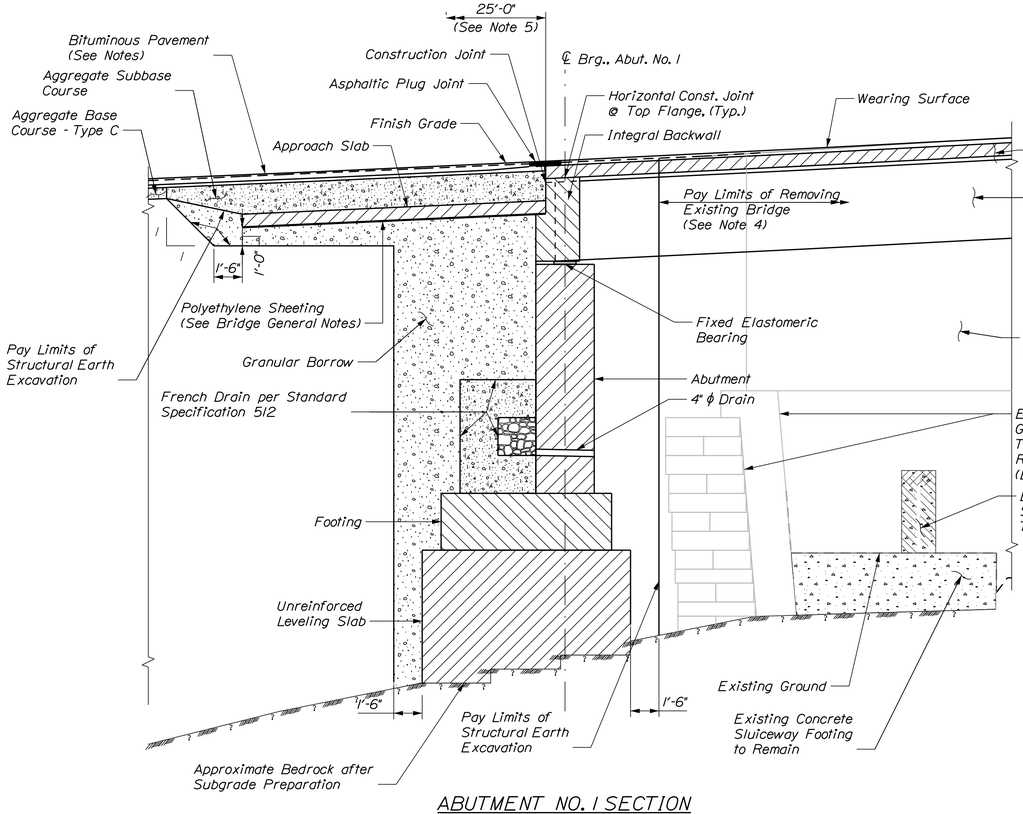
DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

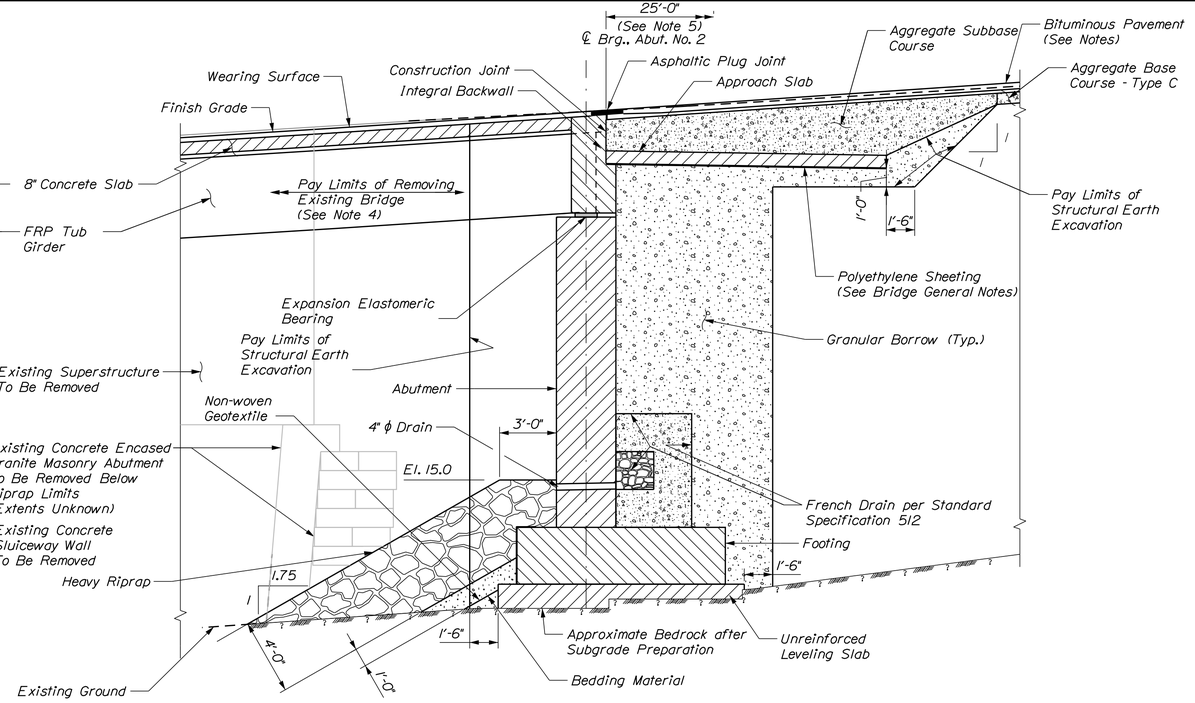
ABUTMENT SECTIONS

SHEET NUMBER
50
OF 213

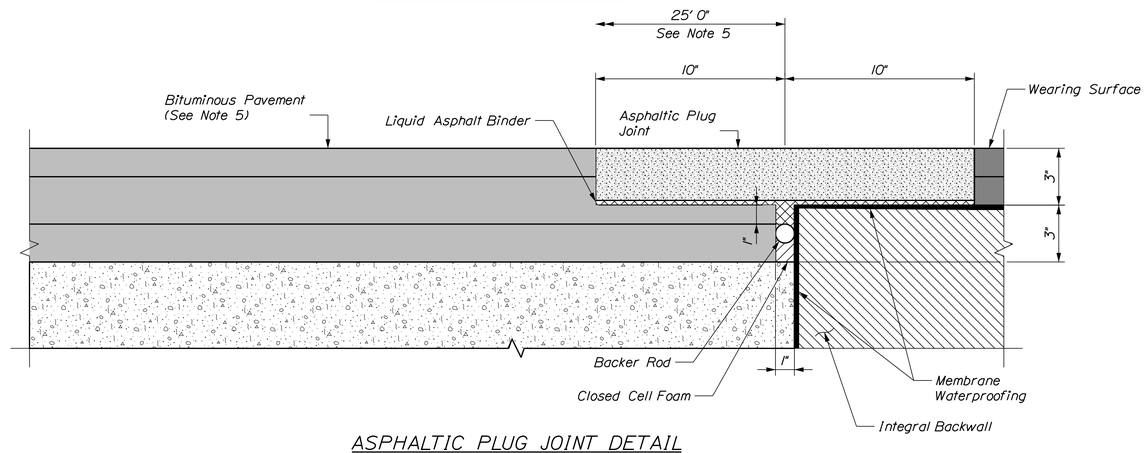
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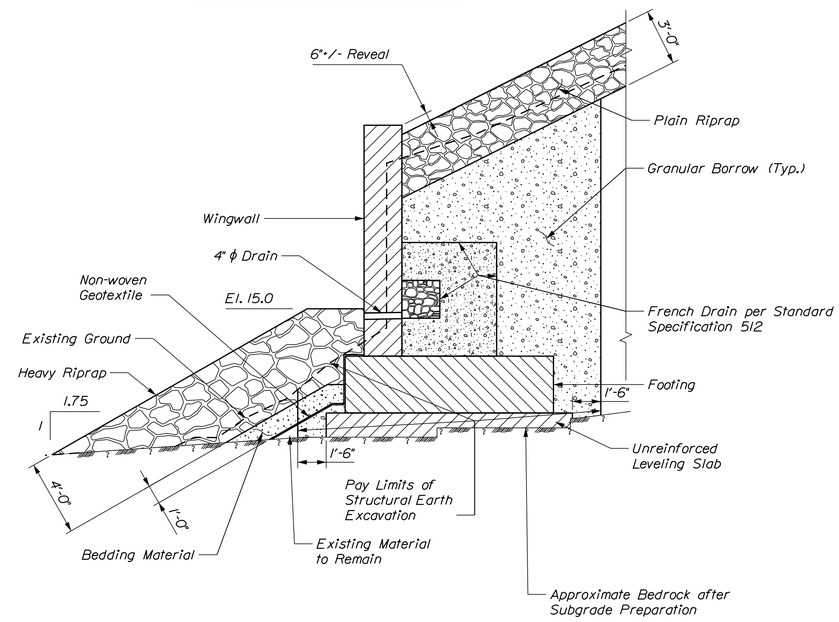
ABUTMENT NO. 1 SECTION



ABUTMENT NO. 2 SECTION



ASPHALTIC PLUG JOINT DETAIL



TYPICAL WINGWALL SECTION
(ABUT. NO. 2 SHOWN)

Notes:

1. See Std. 502(02) for Approach Slab Details
2. Asphaltic Plug Joints shall be provided at begin and end of bridge between curbs
3. French drains shall be provided behind limits of wingwalls and stemwall. French drains will terminate behind bedding material under plain or heavy riprap at ends of wings.
4. Material to be removed between physical limits of existing structure and proposed limits of Structural Earth Excavation shall be incidental to Item 202.19, "Removing Existing Bridge - Grist Mill Bridge." Where portions of existing structure to be removed are within the pay limits for Structural Earth Excavation, no additional payemnt shall be made, and removal shall be included in Item 202.19, "Removing Existing Bridge - Grist Mill Bridge."
5. For the 25'0" limit shown on this plan sheet, pavement structure shall be 1½" HMA Surface Course over 2 ½" HMA Base Course over 2" HMA Base Course. Outside of these limits, pavement structure shall be as detailed on the Typical Sections sheets.
6. All cut or trimmed asphalt edges shall be cleaned and tacked/prime coated prior to placing Asphaltic Plug Joint, in conformance with manufacturers instructions.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334

BRIDGE PLANS

PROJ. MANAGER	L.TIMBERLAKE		
DESIGN-DETAILED	B. Toothaker	B. Toothaker	12/2018
CHECKED-REVIEWED	B. Toothaker	C. Taylor	02/2019
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY | DATE | SIGNATURE

P.E. NUMBER

DATE

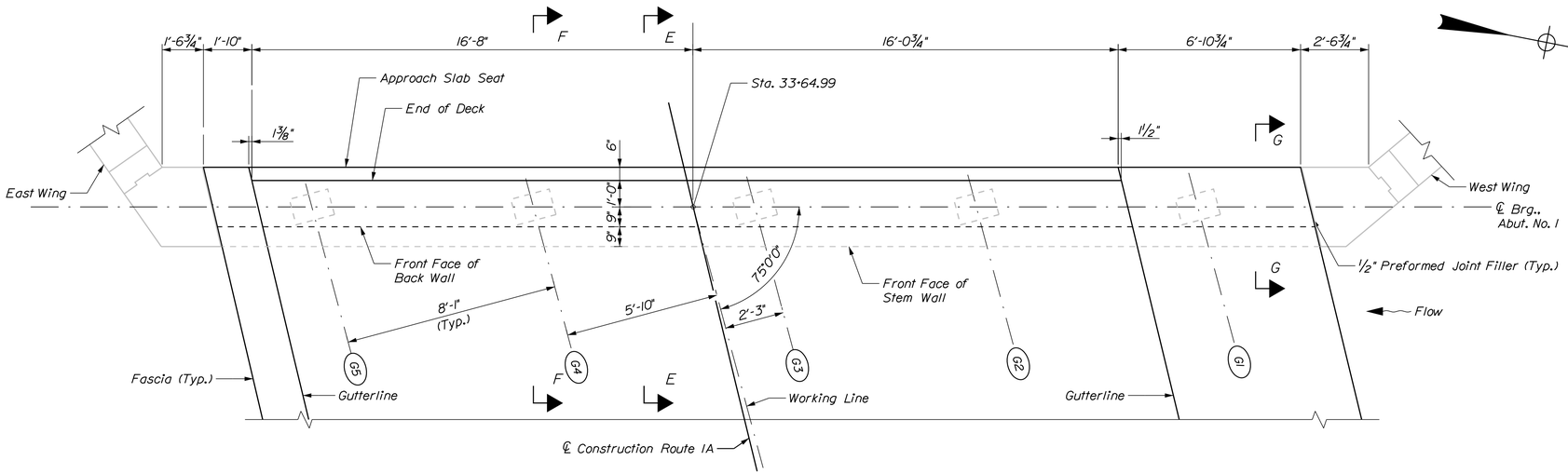
GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

ABUTMENT
EARTHWORK SECTIONS

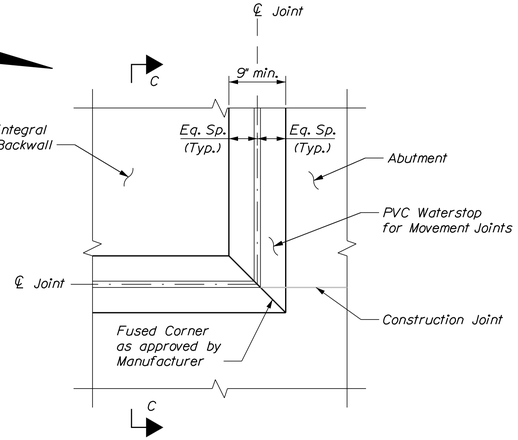
SHEET NUMBER
51
OF 213

TYLIN INTERNATIONAL

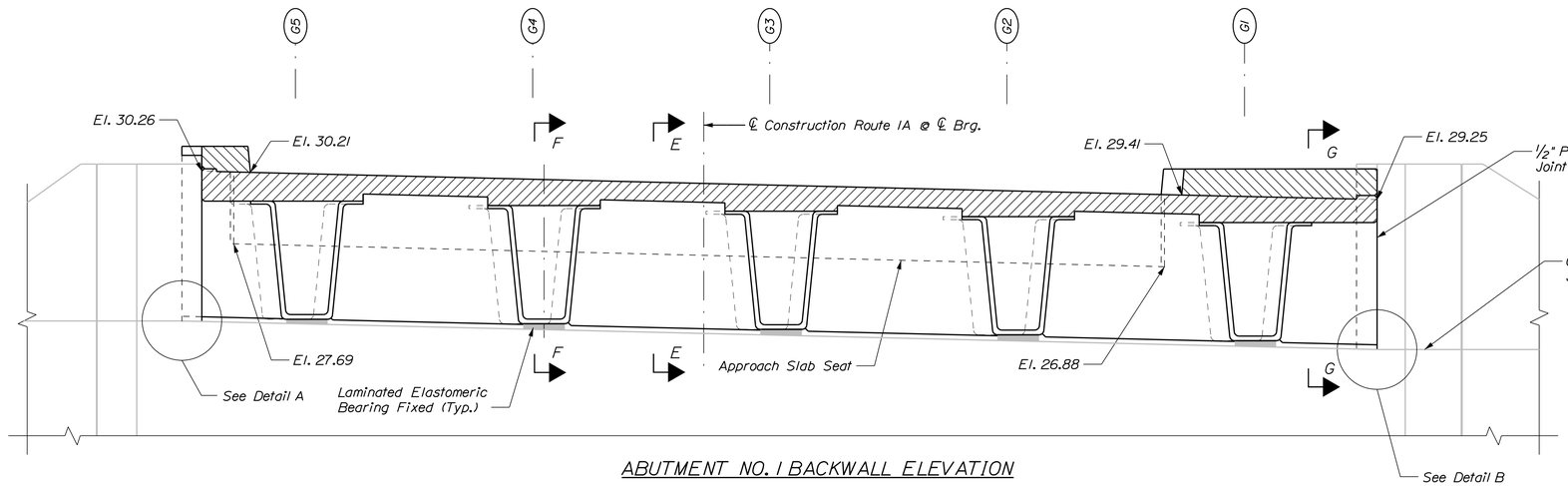
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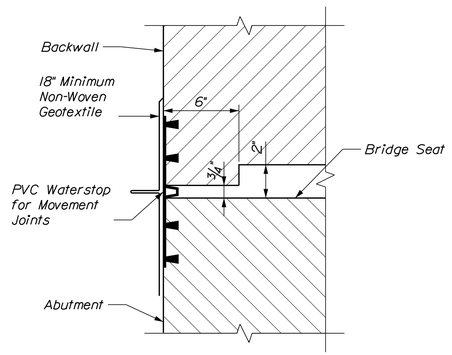
ABUTMENT NO. 1 BACKWALL PLAN



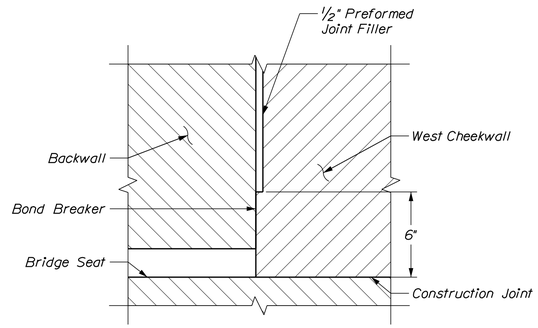
DETAIL A
(Typ., Back Face)



ABUTMENT NO. 1 BACKWALL ELEVATION



SECTION C-C



DETAIL B
(West Side Only)

NOTES:

1. Deck Elevations are provided at ℄ Bearing. Approach Slab Seat Elevations are provided at Face of Backwall.
2. See sheet "Abutment No. 1 Plan & Elevation" for additional details and notes.
3. Integral backwall concrete will be paid under item 502.26, " Structural Concrete Roadway and Sidewalk Slab on Steel Bridges".
4. See sheet "Backwall Sections" for additional details and notes.
5. A PVC water stop as shown in the details shall be provided flush with the backwall and abutment far face along all horizontal and vertical joints, both abutments. Provided waterstop shall be capable of accommodating lateral, transverse, and shear movement. All joints between segments of waterstop shall be spliced or welded in accordance with manufacturer specifications. PVC waterstop for movement joints shall be approved by the Engineer and shall be installed in accordance with manufacturer's specifications. Payment for PVC waterstop for movement joints will not be made directly, but shall be considered incidental to related 502 items. The selected PVC waterstop shall be Sika Base Seal model 771 or approved equivalent.
6. Non-woven Geotextile shall be permanently attached to the integral backwall and Abutment in a manner approved by the Resident.
7. Form material used between backwall and Abutment Stemwall shall have a maximum compressive strength of 30 psi and shall be removed as directed by the Resident.
8. Damage to PVC Waterstop due to construction activities shall be repaired at contractor's expense.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2169(200)
WIN 021692.00
BRIDGE NO. 2334
BRIDGE PLANS

PROJ. MANAGER	L. TIMBERLAKE		
DESIGN-DETAILED	B. Toothaker	B. Molo	12/2018
CHECKED-REVIEWED	C. Taylor	B. Toothaker	12/2018
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

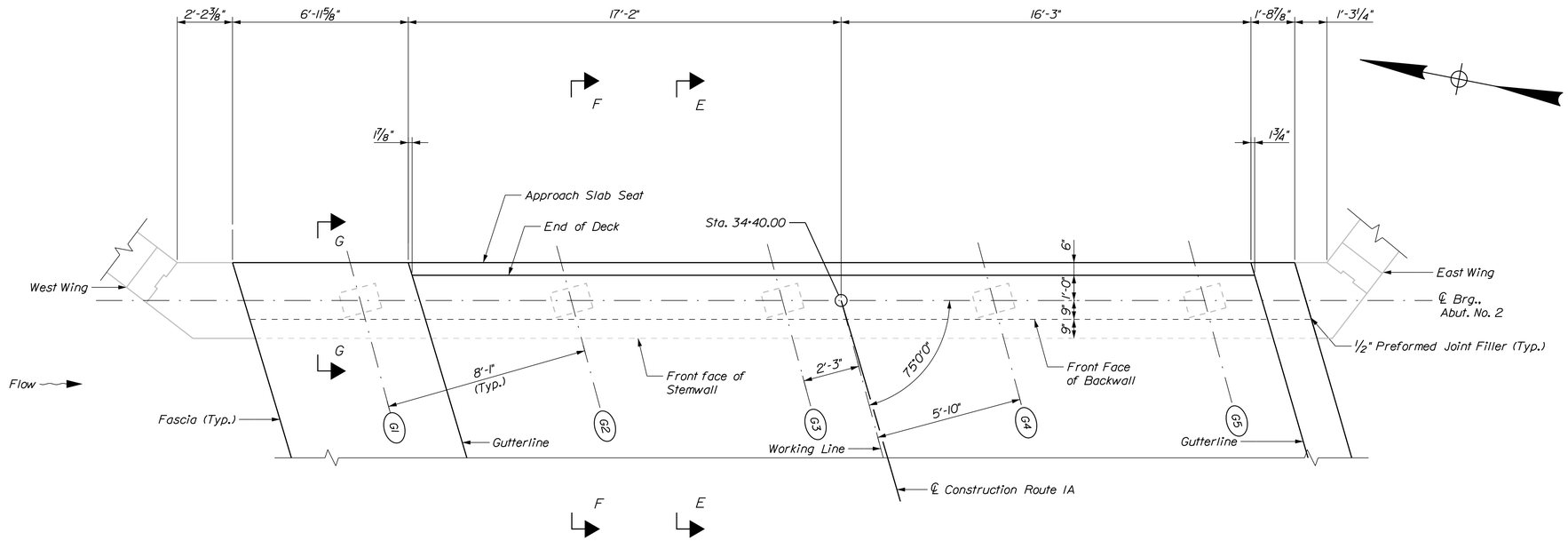
GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

ABUTMENT NO. 1 BACKWALL PLAN AND ELEVATION

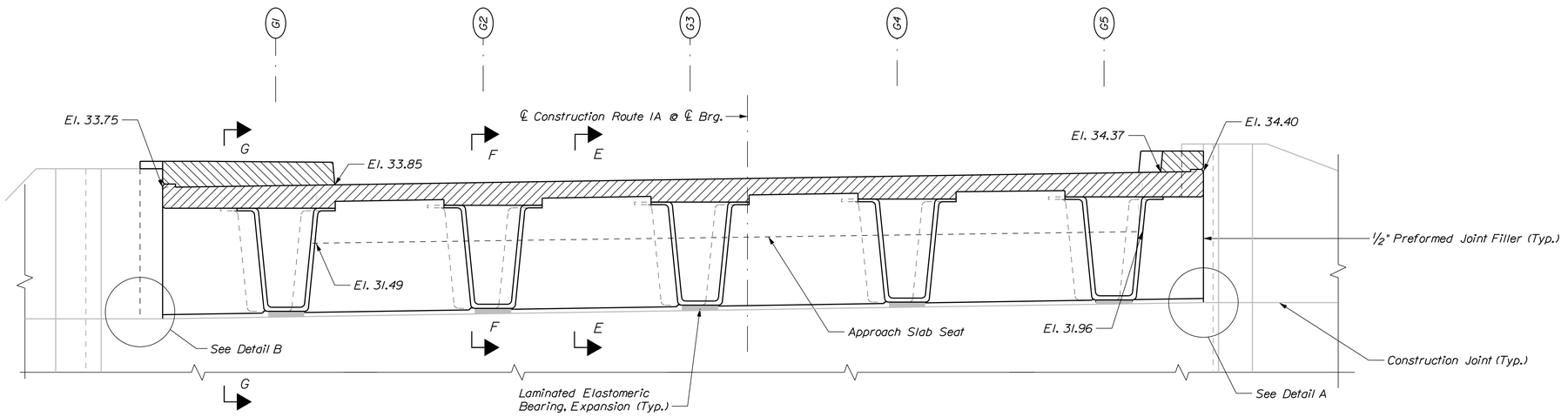
SHEET NUMBER
52
OF 213

T·Y·LIN INTERNATIONAL

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ABUTMENT NO. 2 BACKWALL PLAN



ABUTMENT NO. 2 BACKWALL ELEVATION

NOTES:

1. Deck Elevations are Provided at ℄ Bearing. Approach Slab Seat Elevations are provided at Face of Backwall.
2. See sheet "Abutment No. 2 Plan & Elevation" for additional details.
3. Reference Abutment No. 1 Backwall Sheet for additional notes and Details.

TYLIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334

BRIDGE PLANS

PROJ. MANAGER	L.TIMBERLAKE	
DESIGN-DETAILED	B. Toothaker	B. Melo 12/2018
CHECKED-REVIEWED	B. Toothaker	B. Toothaker 12/2018
DESIGN2-DETAILED2	C. Taylor	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

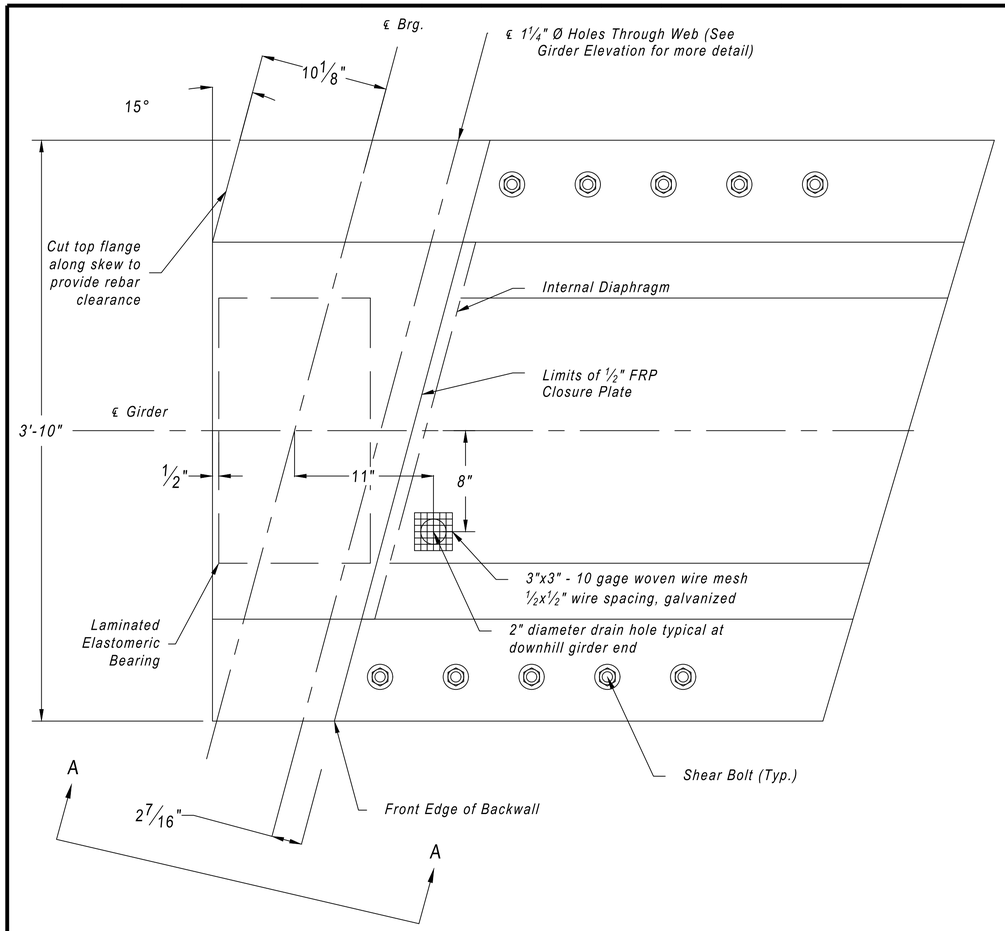
ABUTMENT NO. 2 BACKWALL PLAN & ELEVATION

SHEET NUMBER

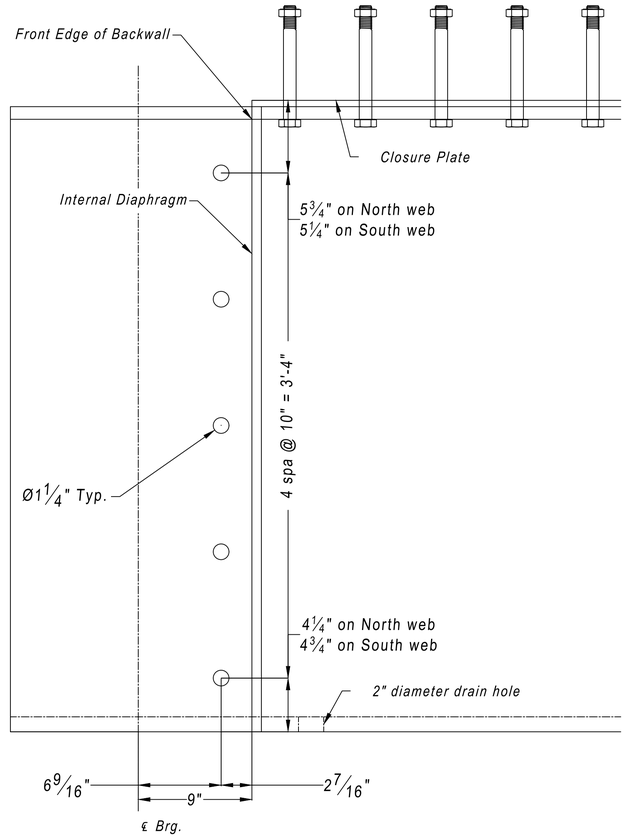
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OF 213

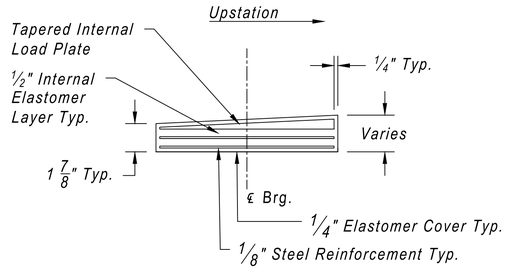
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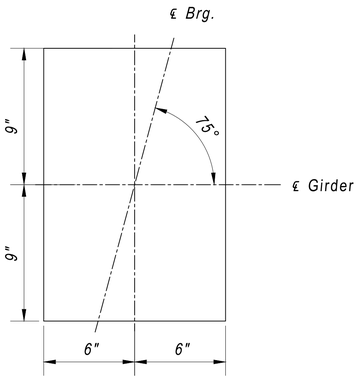
GIRDER END PLAN VIEW



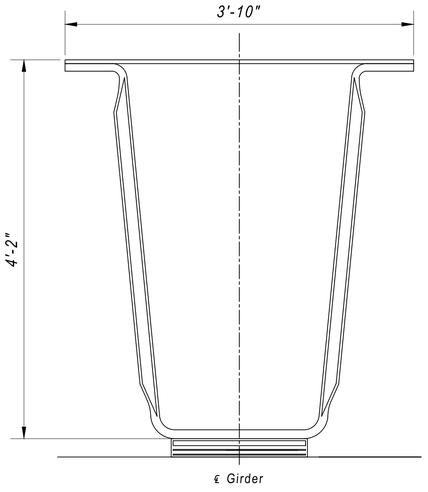
SECTION A-A
GIRDER ELEVATION VIEW



LAMINATED ELASTOMERIC BEARING PAD ELEVATION



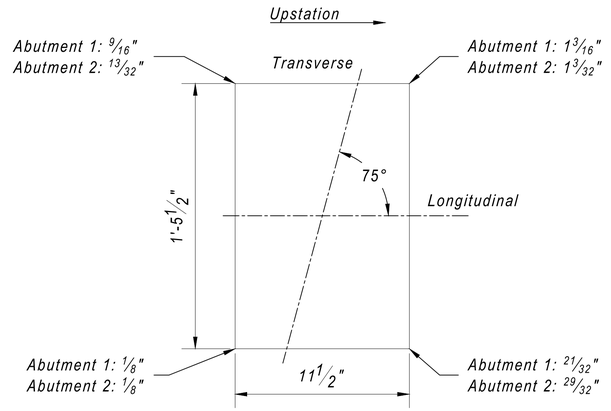
BEARING PAD PLAN



BEARING ASSEMBLY SECTION

ELASTOMERIC BEARING NOTES:

1. Debur all edges of Tapered Internal Load Plate prior to vulcanizing
2. Vulcanizing of the elastomer to the steel plates shall be done during the primary mold process
2. Bearings shall be covered during transit
3. The bearings are designed so that the superstructure may be erected when the ambient air temperature is within the range of 60°f to 90°F. If the ambient air temperature is outside of this range, the bearings shall be reset as directed by the resident.
4. All bearing shall be marked prior to shipping. the marks shall include the bearing location on the bridge, and a direction arrow which points upstation.
5. The elastomer shall have a nominal hardness of 60 on the Shore A scale
6. The steel reinforcing shims shall meet the requirements of ASTM A36.
7. The Bearing Design Load for each bearing as noted in the Standard Specifications, subsection 523.23(4), is 136 Kips. This is the total load for the Service I load combination, without impact.
8. Design criteria (AASHTO Method A):
   Design shear modulus 130 psi
   Design longitudinal movement 0.65 in



TAPERED INTERNAL LOAD PLATE DETAILS

Abutment 1: Longitudinal Slope = 4.63%
Transverse Slope = 2.39%
Abutment 2: Longitudinal Slope = 6.74%
Transverse Slope = 1.55%

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE PLANS

BRIDGE NO. 2334

STATE OF MAINE · TIMOTHY ANDREW KENERSON No. 15271 · LICENSED PROFESSIONAL ENGINEER

	BY	DATE
PROJ. MANAGER	L.TIMBERLAKE	
DESIGN-DETAILED	C. BUZZELL	2/19
CHECKED-REVIEWED	T. KENERSON	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

15271 P.E. NUMBER

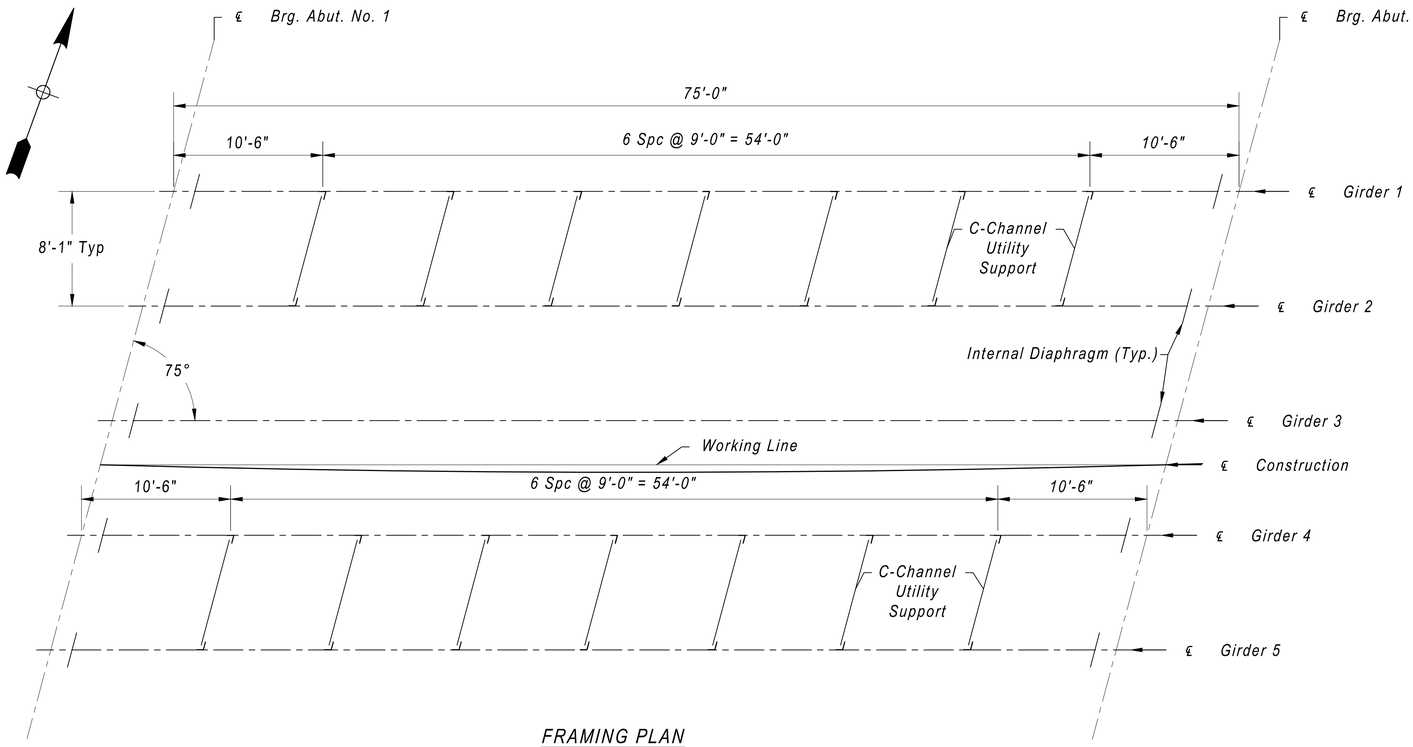
2/19/2019 DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

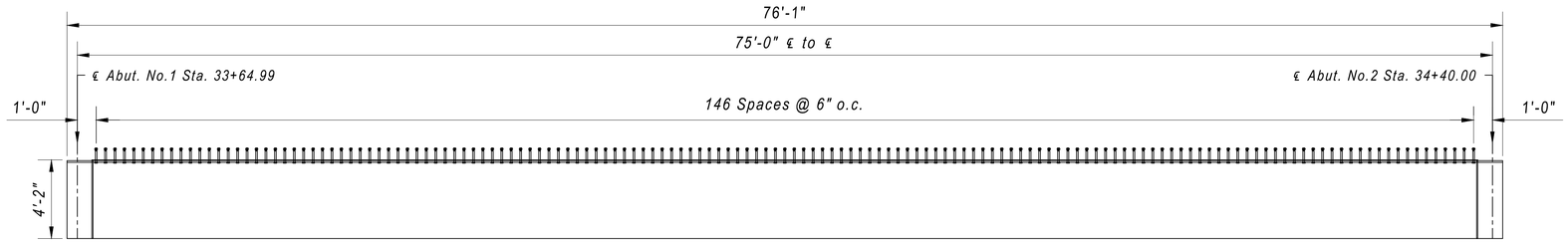
GIRDER END DETAILS

SHEET NUMBER
54
OF 213

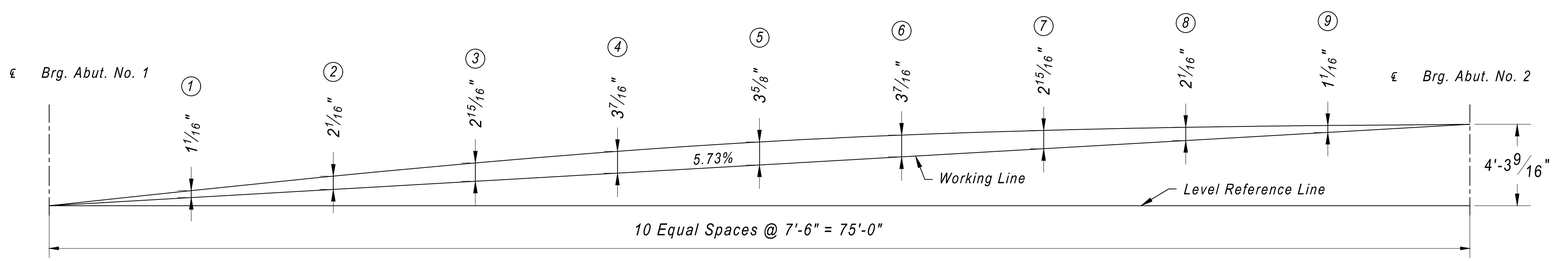
ADVANCED INFRASTRUCTURE TECHNOLOGIES



FRAMING PLAN



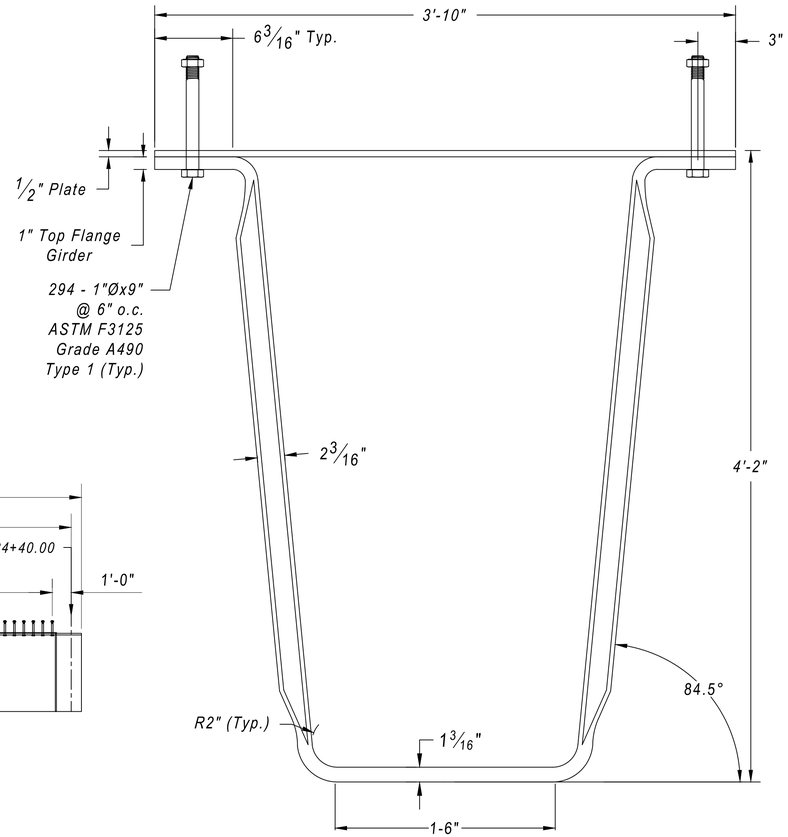
GIRDER ELEVATION AND SHEAR BOLT LAYOUT
(294 bolts per beam: 1470 bolts total)



CAMBER DIAGRAM

STRUCTURAL NOTES:

1. Camber ordinates are computed to compensate for all dead load deflections and for the curvature of the finished grade profile.
2. For bottom of slab elevations and dead load deflections tables see sheet "Transverse Section, BOS Elevations & Deflections".
3. Shear bolts shall be ASTM F3125 Grade A490 Type 1.
4. All materials and workmanship required for the Utility Support Channel shall be in accordance with Standard Specification Section 504. Payment will not be made directly but will be considered incidental to related 509 items.



GIRDER SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE PLANS

BRIDGE NO. 2334

STATE OF MAINE TIMOTHY ANDREW KENERSON No. 15271 REGISTERED PROFESSIONAL ENGINEER

SIGNATURE		
P.E. NUMBER	15271	
DATE	2/19/2019	

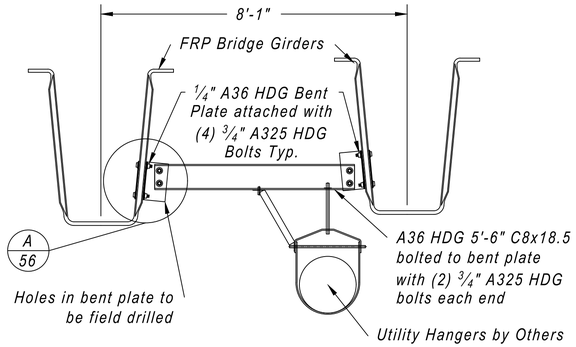
PROJ. MANAGER	L. TIMBERLAKE	
DESIGN-DETAILED	T. KENERSON	C. BUZZELL
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

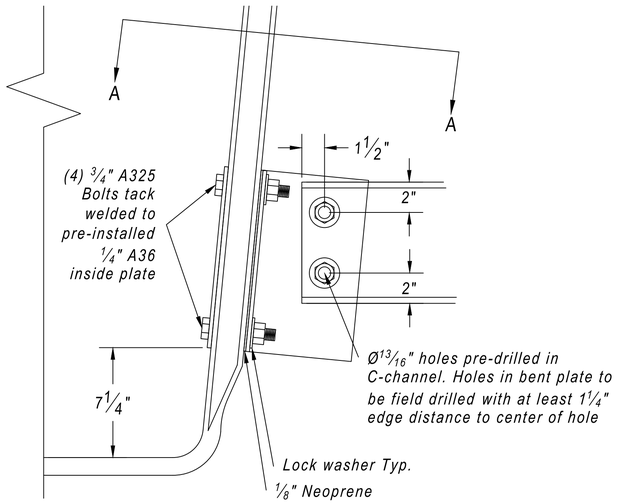
STRUCTURAL DETAILS

SHEET NUMBER
55
OF 213

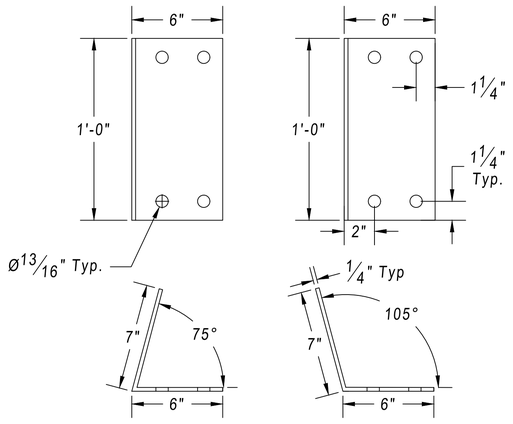
ADVANCED INFRASTRUCTURE TECHNOLOGIES



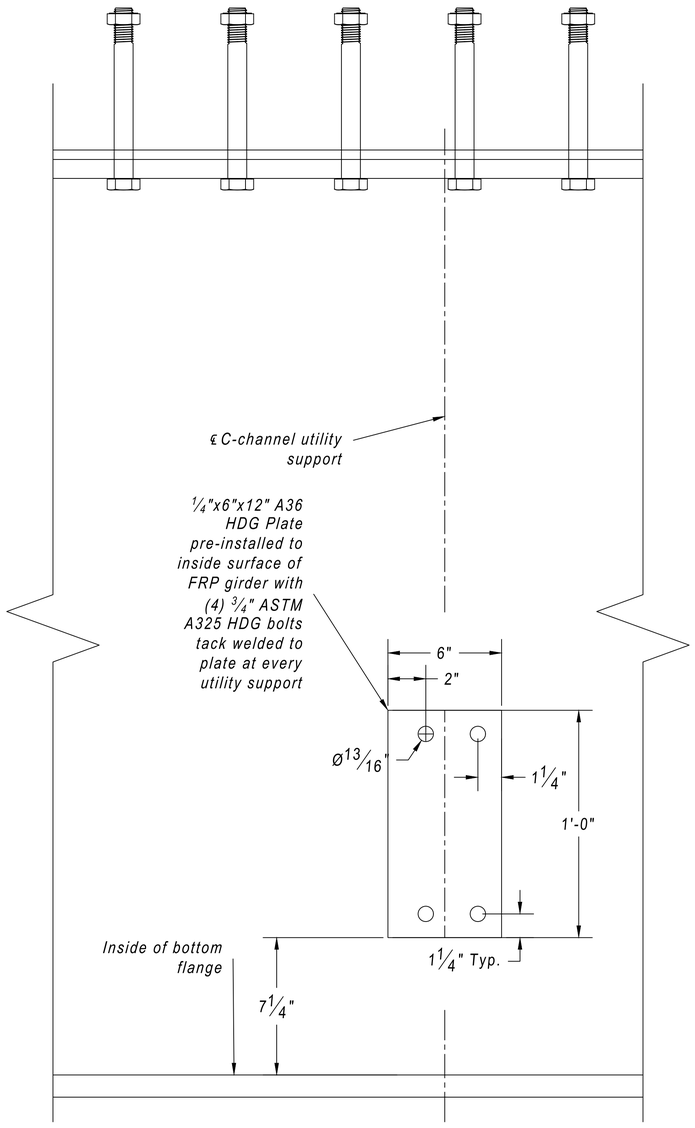
UTILITY SUPPORT CHANNEL
See Structural Details Sheet Note 4



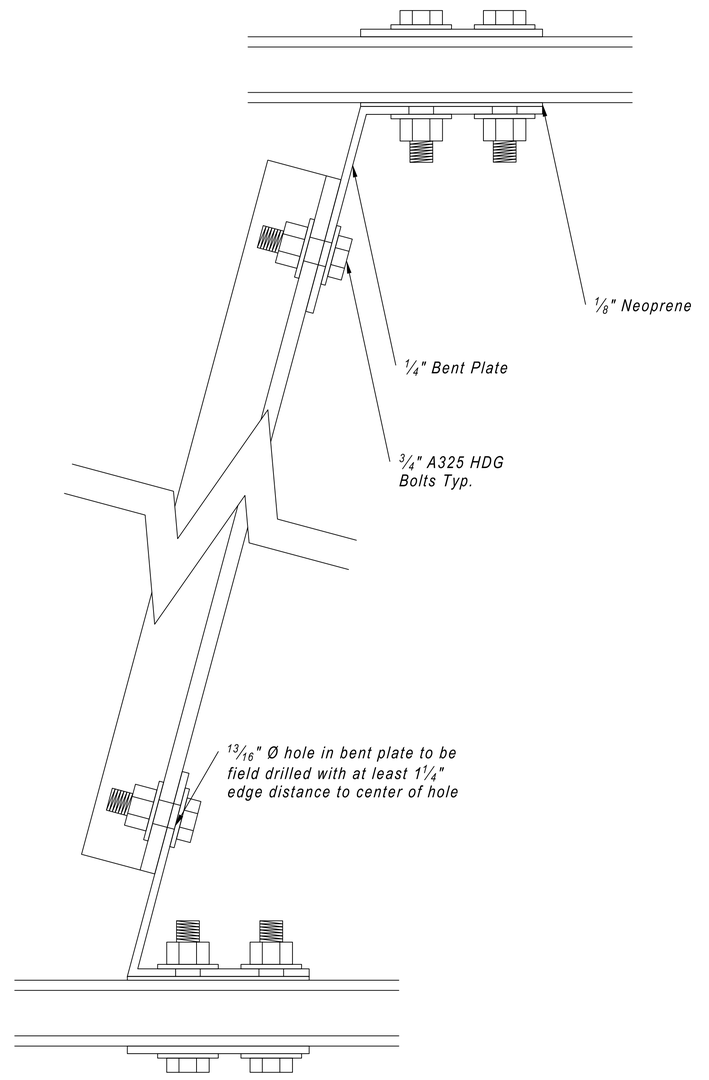
DETAIL A



BENT PLATE DETAIL
(14 each)



PRE-INSTALLED UTILITY CONNECTION PLATE DETAIL



SECTION A-A
CHANNEL UTILITY SUPPORT PLAN

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE PLANS

BRIDGE NO. 2334

STATE OF MAINE ★ ENGINEER ★ REGISTERED PROFESSIONAL
TIMOTHY ANDREW KENERSON No. 15271

SIGNATURE 15271

P.E. NUMBER

2/19/2019
DATE

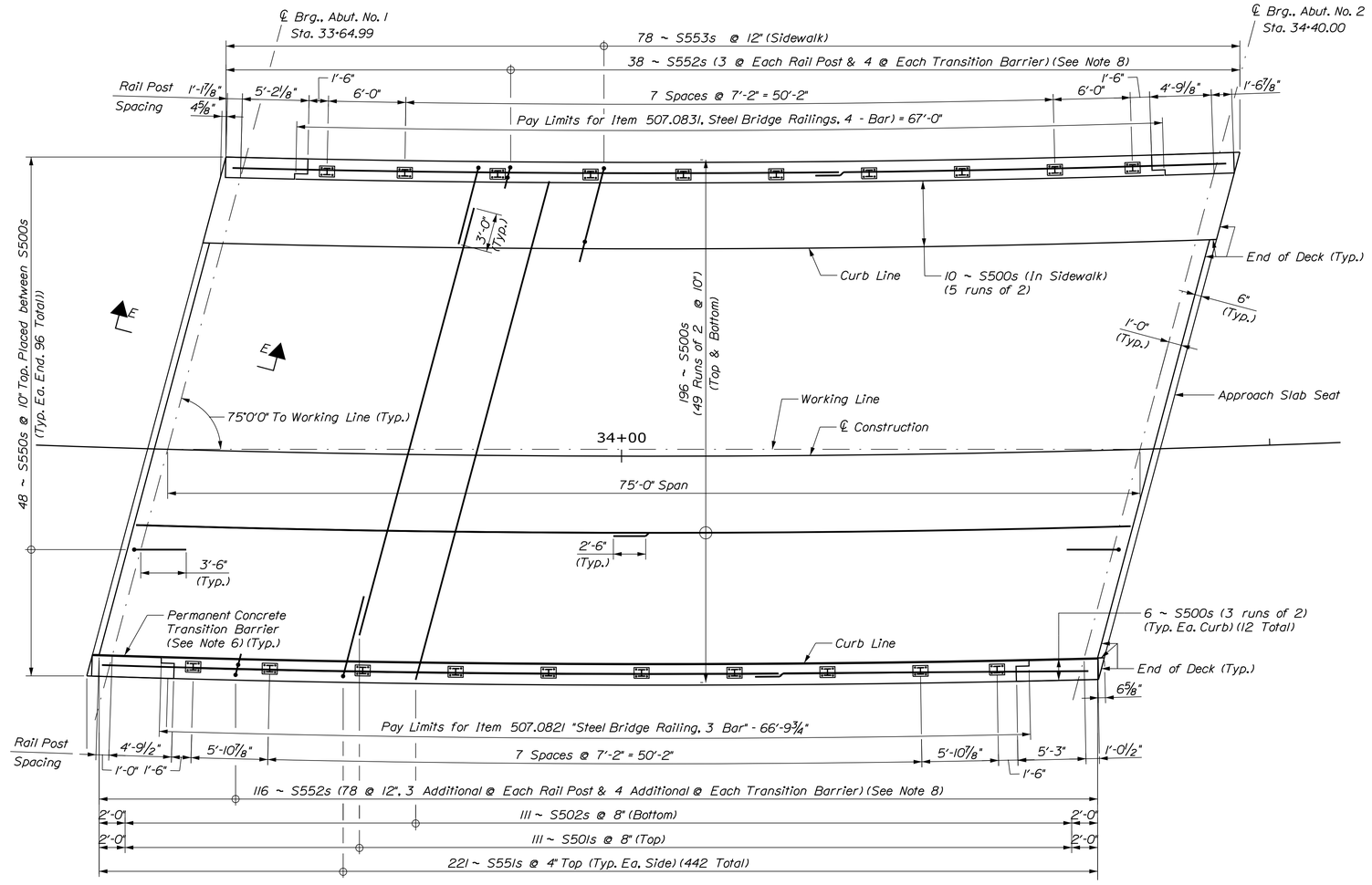
	BY	DATE
PROJ. MANAGER	L.TIMBERLAKE	
DESIGN-DETAILED	T. KENERSON	2/19
CHECKED-REVIEWED	C. BUZZELL	2/19
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

UTILITY CONNECTION DETAILS

SHEET NUMBER
56
OF 213

ADVANCED INFRASTRUCTURE TECHNOLOGIES



SUPERSTRUCTURE PLAN

SUPERSTRUCTURE NOTES:

1. Form a 1 inch V-groove on the fascias at the horizontal joint between the curb and slab.
2. Reinforcing steel shall have a minimum cover of 2 inches unless otherwise noted or shown.
3. The Contractor shall install Transition Barrier vertical closed stirrups, as shown in the Standard Details Section 526 prior to the placement of the curb concrete.
4. The superstructure slab concrete shall be placed in one continuous operation and shall be kept plastic until the entire placement has been made.
5. For Integral Backwall, end of deck details and Section E-E, see sheet "Backwall Reinforcement Details".
6. Reinforcement in transition barriers shall be stainless steel bars and shall be in accordance with Standard Details Section 526.
7. Rail Post spacing and Railing pay limits are measured along face of rail. All other measurements are along working line unless noted otherwise.
8. See Standard Detail Sections 507 & 526 for additional details at rail posts and transition barriers.
9. Provide 1" Preformed Joint filler between curb/sidewalk on bridge and adjacent approach. Payment shall be incidental to related 502 items.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334

BRIDGE PLANS

			BY	DATE
PROJ. MANAGER	L. TIMBERLAKE			
DESIGN-DETAILED	B. Toothaker		S. Morgan	2/18
CHECKED-REVIEWED	D. Meyers		B. Toothaker	2/18
DESIGN2-DETAILED2				
DESIGN3-DETAILED3				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

SUPERSTRUCTURE PLAN

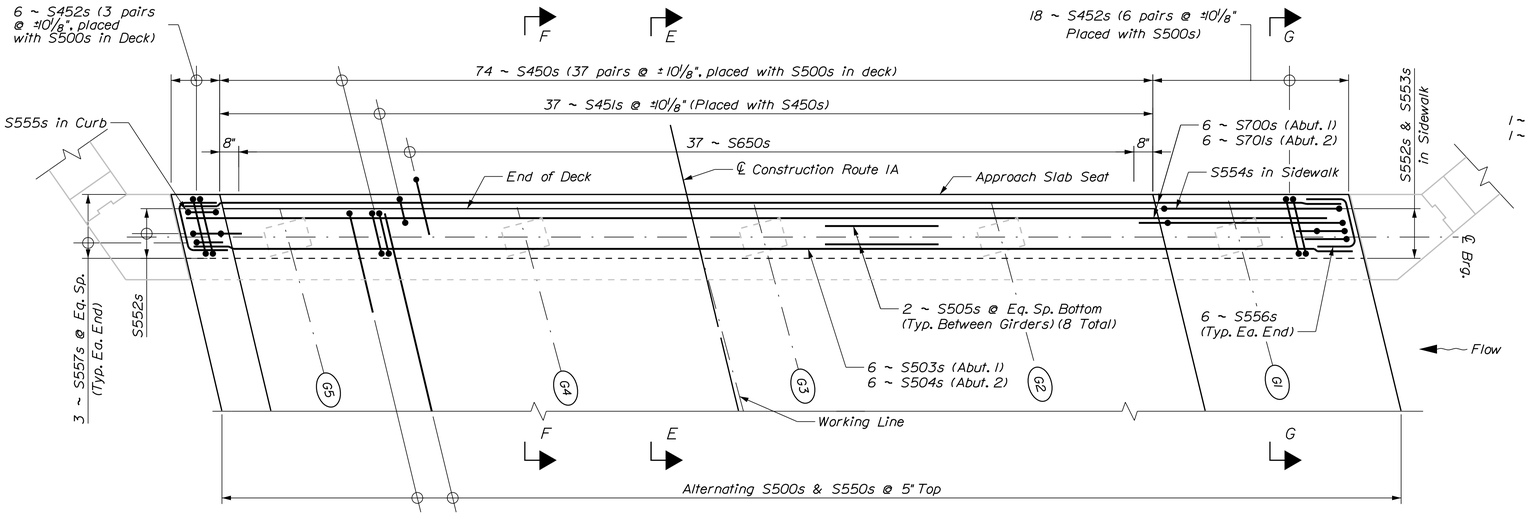
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OF 213

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Filename: ...\xxx_Superstructure_Plan.dgn Division: HIGHWAY Username: Date:3/7/2019

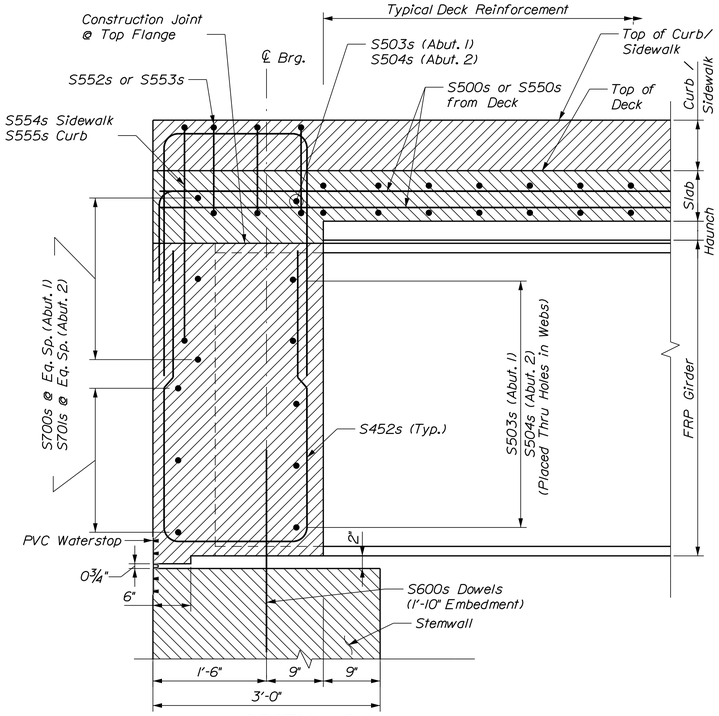


NOTES:

1. See sheet "Superstructure Plan" for superstructure notes and reinforcement details.
2. See backwall plan and elevation sheets for additional details and notes.
3. See sheet "Abutment Earthwork Sections" for Asphaltic Plug Joint details.
4. The portion of the S600s which is embedded into the integral backwall shall be wrapped with 1/4" minimum compressible material, payment will be considered incidental to related 502 items.

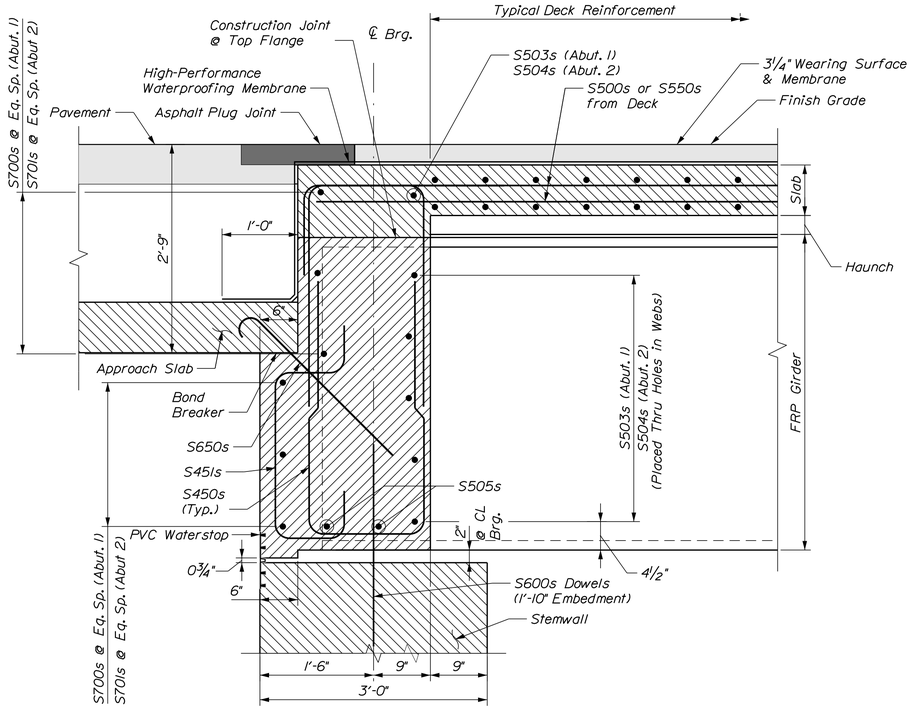
END OF DECK DETAIL

(Abutment No. 1 shown, Abutment No. 2 similar)
(Typical deck and curb reinforcement not shown for clarity)

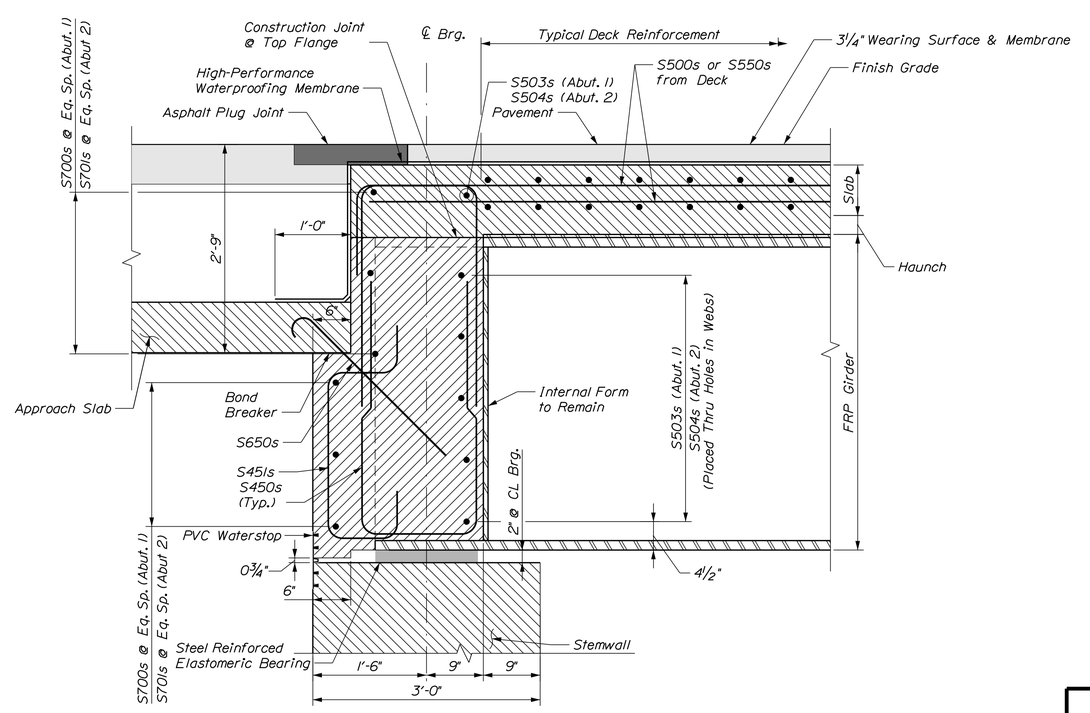


SECTION G-G

(Typical Curb & Sidewalk Reinforcement Not Shown for Clarity)



SECTION E-E



SECTION F-F

T-Y LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE NO. 2334

BRIDGE PLANS

		DATE
PROJ. MANAGER	L.TIMBERLAKE	
DESIGN-DETAILED	B.Toothaker	R.Kravchuk 12/18
CHECKED-REVIEWED	B.Toothaker	B.Toothaker 12/18
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

BACKWALL REINFORCEMENT DETAILS

SHEET NUMBER

58

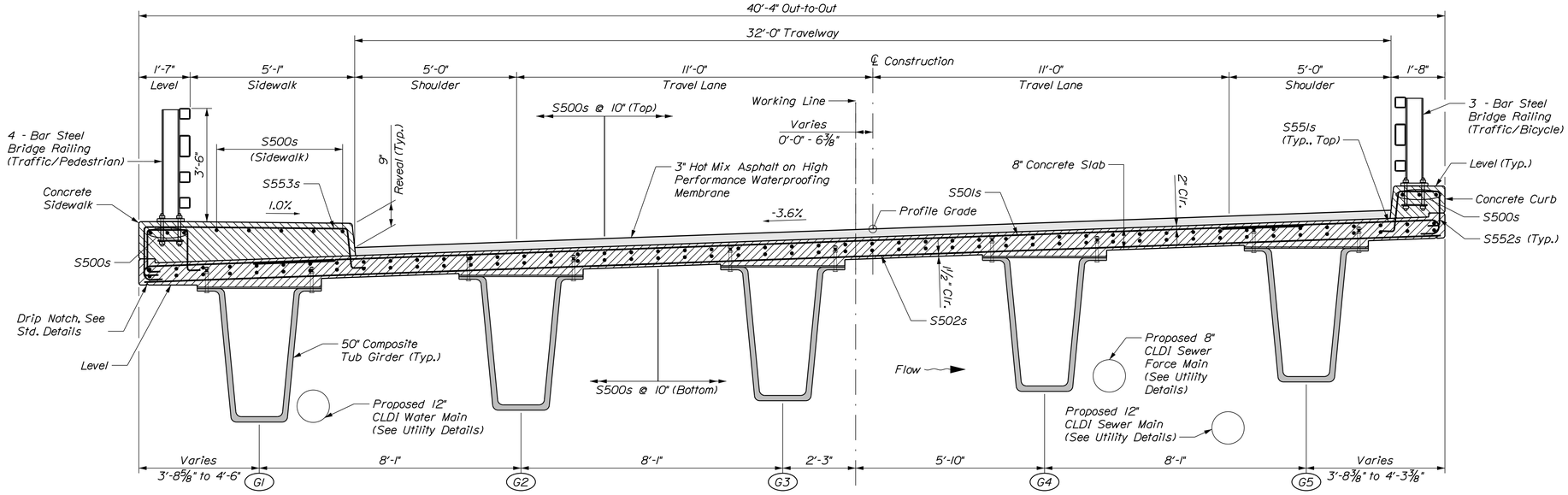
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Date:3/7/2019

Username:

Division: HIGHWAY

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TRANSVERSE SECTION

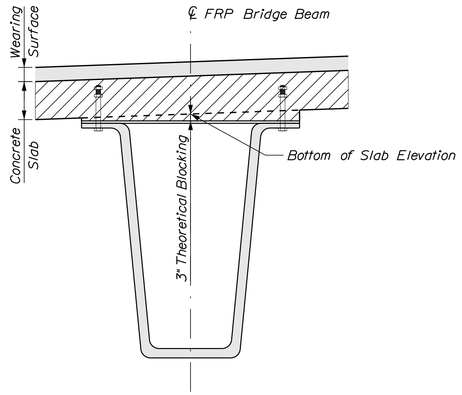
Notes:
1. For Superstructure notes see sheet "Superstructure Plan".
2. Deflections and elevations are given at tenth points.

BOTTOM OF SLAB ELEVATIONS (FT)

Girder	0	1	2	3	4	5	6	7	8	9	10
G1	28.68	29.20	29.71	30.21	30.69	31.15	31.58	32.00	32.39	32.77	33.15
G2	28.88	29.39	29.89	30.38	30.86	31.31	31.74	32.14	32.53	32.90	33.27
G3	29.08	29.58	30.08	30.56	31.03	31.48	31.89	32.29	32.67	33.03	33.40
G4	29.28	29.78	30.27	30.75	31.21	31.64	32.05	32.44	32.81	33.17	33.53
G5	29.49	29.97	30.46	30.93	31.38	31.81	32.22	32.60	32.96	33.31	33.66

CALCULATED BEAM DEFLECTIONS (IN)

	0	1	2	3	4	5	6	7	8	9	10
FRP Dead Load	0.00	0.18	0.34	0.46	0.53	0.56	0.53	0.46	0.34	0.18	0.00
Fluid Concrete Dead Load	0.00	1.49	2.78	3.78	4.42	4.63	4.42	3.78	2.78	1.49	0.00
Superimposed Dead Load	0.00	0.13	0.23	0.31	0.36	0.38	0.36	0.31	0.23	0.13	0.00
Wearing Surface Dead Load	0.00	0.11	0.21	0.28	0.32	0.34	0.32	0.28	0.21	0.11	0.00
TOTAL	0.00	1.91	3.55	4.83	5.64	5.91	5.64	4.83	3.55	1.91	0.00



SLAB HAUNCH & BLOCKING DETAIL

Theoretical blocking is for reference only, and shall not be used for setting forms. Blocking dimension for construction shall be determined using the "Bottom of Slab Elevations" table.

T.Y.LIN INTERNATIONAL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2169(200)

WIN 021692.00

BRIDGE PLANS

BRIDGE NO. 2334

STATE OF MAINE — BENJAMIN LEE TOOTHAKER No. 14015 — LICENSED PROFESSIONAL ENGINEER

PROJ. MANAGER	L.TIMBERLAKE		
DESIGN-DETAILED	B. Toothaker	S. Morgan	2/18
CHECKED-REVIEWED	D. Myers	B. Toothaker	2/18
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

TRANSVERSE SECTION, BOS ELEVATIONS & DEFLECTIONS

SHEET NUMBER

59

OF 213

Filename: ...\xxx_Superstructure_ Transv_Sect.dgnDivision: HIGHWAY Username: Date:3/8/2019

Filename: ...\xxx_Reinforcing_Schedule.dgn Division: HIGHWAY Username: Date:3/7/2019

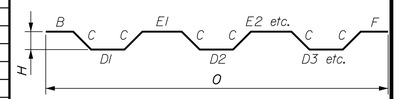
STRAIGHT BARS

MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	LOCATION
ABUTMENT NO.1				ABUTMENT NO.2			
A400	12	8'-3"	VERT. E. WINGWALL	B500	47	10'-6"	TRANS. STEMWALL FOOTING
A401	12	6'-7"	VERT. E. WINGWALL	B501	56	9'-6"	TRANS. WINGWALL FOOTING
A402	12	5'-1"	VERT. E. WINGWALL	B502	26	46'-0"	LONG. STEMWALL FOOTING
A403	12	3'-6"	VERT. E. WINGWALL	B503	24	30'-4"	LONG. W. WINGWALL FOOTING
A404	2	30'-8"	HORZ. E. WINGWALL	B504	24	24'-5"	LONG. E. WINGWALL FOOTING
A405	2	30'-8"	HORZ. E. WINGWALL	B505	67	12'-10"	VERT. STEMWALL
A406	2	27'-7"	HORZ. E. WINGWALL	B506	98	23'-11"	HORZ. CHEEKWALL
A407	2	23'-11"	HORZ. E. WINGWALL	B507	19	8'-5"	VERT. STEMWALL
A408	2	20'-3"	HORZ. E. WINGWALL	B508	27	11'-2"	VERT. WINGWALL
A409	2	16'-6"	HORZ. E. WINGWALL	B509	14	14'-2"	VERT. W. WINGWALL
A410	2	12'-10"	HORZ. E. WINGWALL	B510	11	15'-2"	VERT. E. WINGWALL
A411	2	9'-2"	HORZ. E. WINGWALL	B511	32	26'-7"	HORZ. W. WINGWALL
A412	2	5'-5"	HORZ. E. WINGWALL	B512	2	25'-2"	HORZ. W. WINGWALL
A413	2	1'-9"	HORZ. E. WINGWALL	B513	2	20'-10"	HORZ. W. WINGWALL
A414	3	31'-9"	HORZ. E. WINGWALL	B514	2	16'-6"	HORZ. W. WINGWALL
				B515	2	12'-2"	HORZ. W. WINGWALL
A500	138	8'-6"	TRANS. STEMWALL FOOTING	B516	2	7'-10"	HORZ. W. WINGWALL
A501	255	6'-3"	TRANS. WINGWALL FOOTING	B517	2	3'-6"	HORZ. W. WINGWALL
A502	22	45'-7"	LONG. STEMWALL FOOTING	B518	30	20'-7"	HORZ. E. WINGWALL
A503	36	34'-2"	LONG. E. WING FOOTING	B519	2	19'-10"	HORZ. E. WINGWALL
A504	18	18'-8"	LONG. W. WING FOOTING	B520	2	17'-4"	HORZ. E. WINGWALL
A505	52	9'-10"	VERT. STEMWALL	B521	2	14'-10"	HORZ. E. WINGWALL
A506	52	23'-11"	HORZ. STEMWALL	B522	2	12'-4"	HORZ. E. WINGWALL
A507	20	8'-7"	VERT. CHEEKWALL	B523	2	9'-10"	HORZ. E. WINGWALL
A508	10	14'-0"	VERT. E. WINGWALL	B524	2	7'-4"	HORZ. E. WINGWALL
A509	11	11'-4"	VERT. E. WINGWALL	B525	2	4'-10"	HORZ. E. WINGWALL
A510	11	8'-5"	VERT. E. WINGWALL	B526	2	2'-4"	HORZ. E. WINGWALL
A511	20	30'-7"	HORZ. E. WINGWALL	B527	44	5'-0"	
A512	2	29'-0"	HORZ. E. WINGWALL				
A513	2	25'-3"	HORZ. E. WINGWALL	B700	46	13'-7"	VERT. STEMWALL
A514	2	21'-7"	HORZ. E. WINGWALL				
A515	2	17'-11"	HORZ. E. WINGWALL	B800	94	10'-6"	TRANS. STEMWALL FOOTING
A516	2	14'-2"	HORZ. E. WINGWALL	B801	112	9'-6"	TRANS. WINGWALL FOOTING
A517	2	10'-6"	HORZ. E. WINGWALL	B802	14	13'-7"	VERT. W. WINGWALL
A518	2	6'-10"	HORZ. E. WINGWALL	B803	14	16'-7"	VERT. W. WINGWALL
A519	2	3'-1"	HORZ. E. WINGWALL	B804	11	13'-6"	VERT. E. WINGWALL
A520	22	14'-7"	HORZ. W. WINGWALL	B805	11	17'-6"	VERT. E. WINGWALL
A521	2	14'-0"	HORZ. W. WINGWALL				
A522	2	12'-0"	HORZ. W. WINGWALL				
A523	2	10'-0"	HORZ. W. WINGWALL				
A524	2	8'-0"	HORZ. W. WINGWALL				
A525	2	6'-0"	HORZ. W. WINGWALL				
A526	2	4'-0"	HORZ. W. WINGWALL				
A527	2	2'-0"	HORZ. W. WINGWALL				
A528	9	13'-9"	VERT. W. WINGWALL				
A529	7	9'-9"	VERT. W. WINGWALL				
A530	40	5'-0"					
A600	46	10'-3"	VERT. STEMWALL				
A601	10	14'-7"	VERT. E.WINGWALL				
A602	11	12'-8"	VERT. E.WINGWALL				
A603	12	9'-9"	VERT. E.WINGWALL				
A604	9	14'-3"	VERT. W.WINGWALL				
A605	7	10'-10"	VERT. W.WINGWALL				
SUPERSTRUCTURE							
S500s	218	39'-8"	LONG. DECK				
S501s	111	32'-10"	TRANS. DECK TOP				
S502s	111	41'-4"	TRANS. DECK BOTTOM				
S503s	6	41'-0"	TRANS. BACKWALL				
S504s	6	41'-8"	TRANS. BACKWALL				
S505s	16	5'-7"	HORZ. BACKWALL				
S600s	10	4'-0"	VERT. BACKWALL DOWELS				
S700s	6	41'-0"	TRANS. BACKWALL				
S701s	6	41'-8"	TRANS. BACKWALL				
APPROACH SLAB							
AS501s	64	16'-11"	TRANS. APPROACH SLAB				
AS601s	124	14'-11"	LONG. APPROACH SLAB				

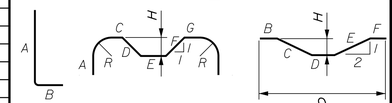
BENT BARS

MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G/J	H	K	O/R	LOCATION
ABUTMENT NO.1														
A450	64	5'-1"	L	4'-5"	8"	-	-	-	-	-	-	-	-	E. WINGWALL
A451	2	2'-8"	S	0"	8"	1'-4"	8"	-	-	0"	-	-	-	E. WINGWALL
A452	32	5'-5"	S	0"	2'-0"	1'-5"	2'-0"	-	-	0"	-	-	-	E. WINGWALL
A550	131	4'-2"	S	0"	10"	2'-6"	10"	-	-	0"	-	-	-	FOOTING TOE BARS
A551	100	7'-1"	L	6'-3"	10"	-	-	-	-	-	-	-	-	STEMWALL DOWELS
A552	43	8'-8"	S	0"	3'-0"	2'-8"	3'-0"	-	-	0"	-	-	-	STEMWALL CAP
A553	12	6'-4"	V	-	-	-	2'-7"	2'-1"	-	-	1'-8"	-	-	HORZ. STEMWALL
A554	12	6'-3"	V	-	-	-	2'-7"	2'-3"	-	-	1'-5"	-	-	HORZ. STEMWALL
A555	6	10'-9"	T7	6"	1'-5"	3'-1"	1'-9"	2'-1"	-	6"	1'-5"	1'-0"	-	EAST CHEEKWALL
A556	6	11'-8"	T7	6"	2'-6"	1'-10"	2'-7"	1'-3"	-	6"	2'-6"	7"	-	EAST CHEEKWALL
A557	7	8'-2"	12	7"	2'-0"	1'-5"	2'-1"	-	-	5"	1'-8"	1'-4"	-	WEST CHEEKWALL
A558	7	8'-0"	T7	6"	2'-6"	1'-3"	2'-7"	8"	-	6"	-	-	-	WEST CHEEKWALL
A559	3	39'-9"	V	-	-	-	9"	30'-11"	-	-	8'-1"	-	-	E. WINGWALL
A560	3	23'-2"	V	-	-	-	9"	15'-6"	-	-	6'-11"	-	-	W. WINGWALL
A561	48	10'-7"	S	0"	4'-7"	1'-5"	4'-7"	-	-	0"	-	-	-	WINGWALL TOPS
A562	11	2'-11"	S	0"	10"	1'-3"	10"	-	-	0"	-	-	-	W. WINGWALL
A650	186	7'-3"	L	6'-3"	1'-0"	-	-	-	-	-	-	-	-	STEMWALL DOWELS
ABUTMENT NO.2														
B550	103	4'-2"	S	0"	10"	2'-6"	10"	-	-	0"	-	-	-	FOOTING TOE BARS
B551	67	8'-7"	L	7'-9"	10"	-	-	-	-	-	-	-	-	STEMWALL DOWELS
B552	50	9'-1"	L	8'-3"	10"	-	-	-	-	-	-	-	-	WINGWALL DOWELS
B553	58	8'-0"	S	0"	2'-8"	2'-8"	2'-8"	-	-	0"	-	-	-	STEMWALL CAP
B554	23	6'-0"	V	-	-	-	2'-7"	2'-0"	-	-	1'-5"	-	-	STEMWALL CORNER
B555	23	6'-2"	V	-	-	-	2'-7"	1'-11"	-	-	1'-8"	-	-	STEMWALL CORNER
B556	6	11'-11"	T7	6"	2'-6"	2'-0"	2'-8"	1'-3"	-	6"	2'-6"	9"	-	WEST CHEEKWALL
B557	6	8'-0"	12	7"	2'-0"	1'-8"	1'-10"	-	-	5"	1'-6"	1'-1"	-	WEST CHEEKWALL
B558	7	9'-6"	T7	6"	1'-8"	2'-2"	2'-1"	11"	-	6"	1'-8"	1'-3"	-	EAST CHEEKWALL
B559	7	7'-5"	T7	6"	10"	2'-4"	10"	2'-1"	-	-	10"	2"	-	EAST CHEEKWALL
B560	31	3'-2"	S	0"	10"	1'-6"	10"	-	-	0"	-	-	-	WINGWALL ENDS
B561	50	14'-0"	S	0"	6'-2"	1'-8"	6'-2"	-	-	0"	-	-	-	WINGWALL TOPS
B562	3	33'-3"	V	-	-	-	9"	26'-6"	-	-	6'-0"	-	-	WEST WINGWALL
B563	3	30'-1"	V	-	-	-	9"	21'-4"	-	-	8'-0"	-	-	EAST WINGWALL
B750	92	8'-11"	L	7'-9"	1'-2"	-	-	-	-	-	-	-	-	STEMWALL DOWELS
B850	100	9'-7"	L	8'-3"	1'-4"	-	-	-	-	-	-	-	-	WINGWALL DOWELS
SUPERSTRUCTURE														
S450s	148	7'-11"	S	0"	3'-3"	1'-5"	3'-3"	-	-	0"	-	-	-	BACKWALL STIRRUPS
S451s	74	4'-11"	S	8"	8"	2'-3"	8"	-	-	8"	-	-	-	APPROACH SLAB SEAT STIRRUPS
S452s	48	8'-5"	S	0"	3'-3"	1'-11"	3'-3"	-	-	0"	-	-	-	BACKWALL CURB/SIDEWALK
S550s	96	5'-4"	L	4'-6"	10"	-	-	-	-	-	-	-	-	ENDS OF DECK
S551s	444	7'-10"	C	7"	7'-3"	0"	-	-	-	-	-	-	-	DECK OVERHANG
S552s	154	5'-8"	S	10"	1'-4"	1'-4"	1'-4"	-	-	10"	-	-	-	CURB STIRRUPS
S553s	78	10'-11"	S	10"	1'-8"	6'-5"	1'-2"	-	-	10"	-	-	-	SIDEWALK STIRRUPS
S554s	2	17'-11"	H	5.5"	6'-6"	2'-0"	6'-6"	2'-0"	-	5.5"	-	-	-	BACKWALL SIDEWALK STIRRUP
S555s	2	7'-7"	H	5.5"	1'-4"	2'-0"	1'-4"	2'-0"	-	5.5"	-	-	-	BACKWALL CURB STIRRUPS
S556s	24	7'-4"	T7	0"	0"	1'-10"	1'-10"	1'-10"	-	0"	1'-10"	9"	-	BACKWALL HORZ. CHEEKWALL BARS
S557s	12	8'-4"	S	0"	1'-10"	4'-8"	1'-10"	-	-	0"	-	-	-	BACKWALL VERT CHEEKWALL BARS
S650s	74	4'-5"	C	8"	3'-9"	0"	-	-	-	-	-	-	-	APPROACH SLAB SEAT

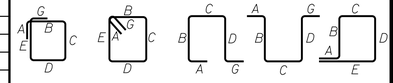
TYPE - BENDING DIAGRAMS



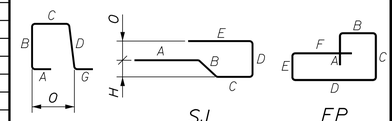
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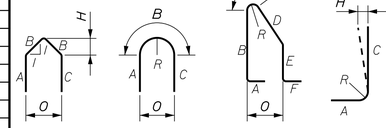
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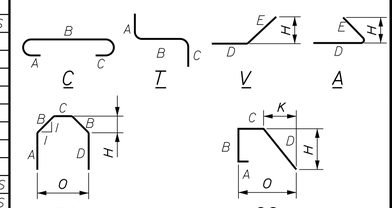
HB H S SL SB



SC SJ EP



PA PR CB J



C T V A

P2 S2

T7 12

All dimensions are out-to-out of bar.

Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.

GENERAL NOTES

1. The first two digits following the letter(s) of the mark indicate the size ofthe bar:

   Mark "A0502" = bar size #5
   Mark "P0805" = bar size #8
   Mark "S1150" = bar size #11

2. Each crank bar, Type B, may be replaced by two (2) straight bars (one top and one bottom) of the same bar size as the crank bar. Payment in either case shall be based on crank bars as schedule on the plans.

3. Bar marks ending with an 'E' indicate epoxy coating required. Bar marks ending with an 's' indicate stainless steel bar is required. Bar marks ending with a 'G' indicate Glass Fiber Reinforced Polymer (GFRP) bar is required.

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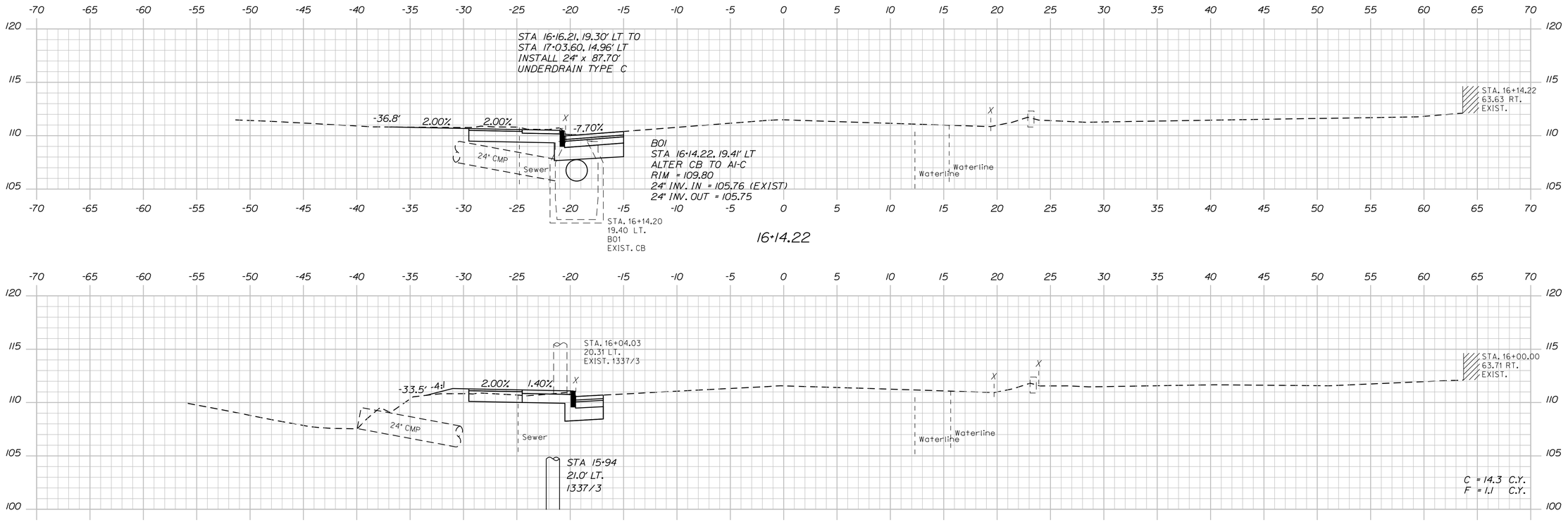
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2169(200)
WIN 021692.00
BRIDGE PLANS
BRIDGE NO. 2334

L:TIMBERLAKE			
PROJ. MANAGER	BY	SIGNATURE	
DESIGN-DETAILED	R. Kravchuk		
CHECKED-REVIEWED	B. Toothaker	P.E. NUMBER	
DESIGN2-DETAILED2	R. Kravchuk		
DESIGN3-DETAILED3	B. Toothaker	DATE	4/18
REVISIONS 1			
REVISIONS 2			
REVISIONS 3		DATE	
REVISIONS 4			
FIELD CHANGES			

GRIST MILL BRIDGE
OVER SOUADABSCOOK STREAM
HAMPDEN PENOBSCOT COUNTY

REINFORCING SCHEDULE

SHEET NUMBER
60
OF 213



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER		
R. MOULTON		
DESIGN-DETAILED	TSK	12/17
CHECKED-REVIEWED	KSD	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T·Y·LIN INTERNATIONAL

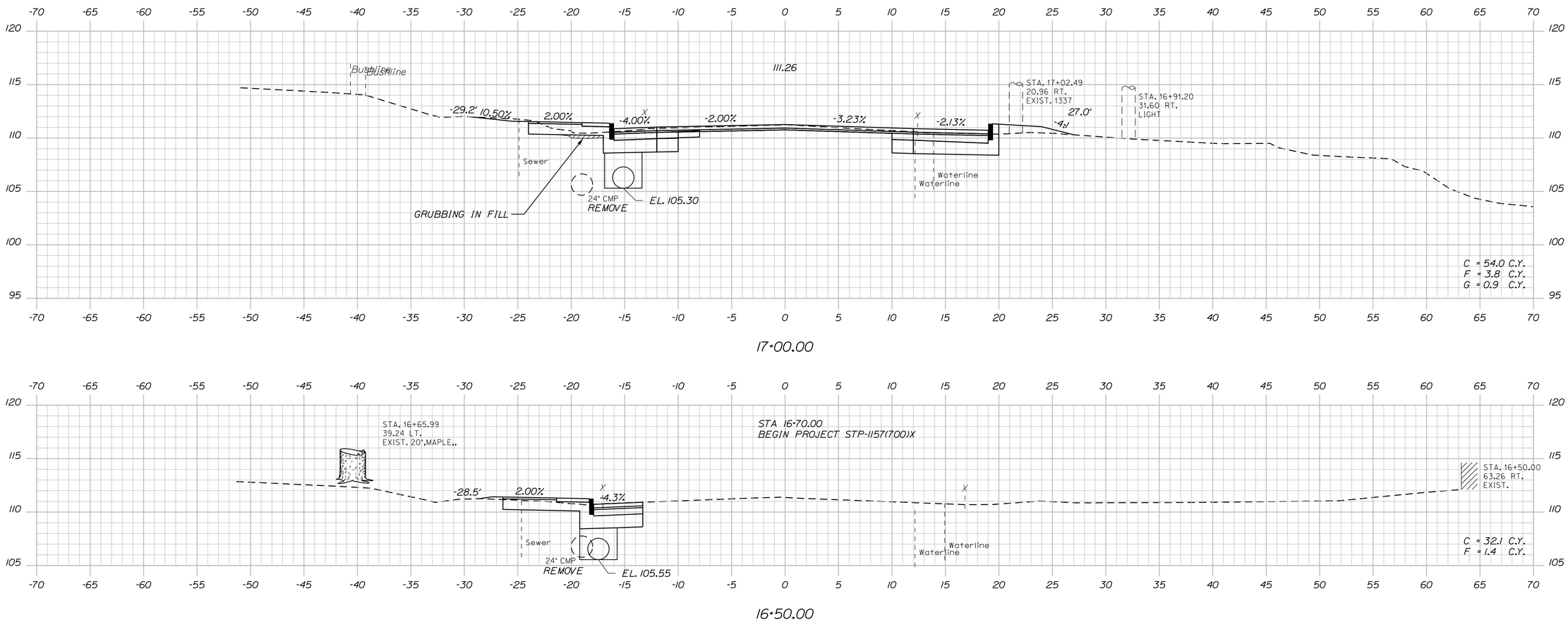
SHEET NUMBER

61

OF 213

Sta. 15+50.00 to Sta. 16+14.22

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

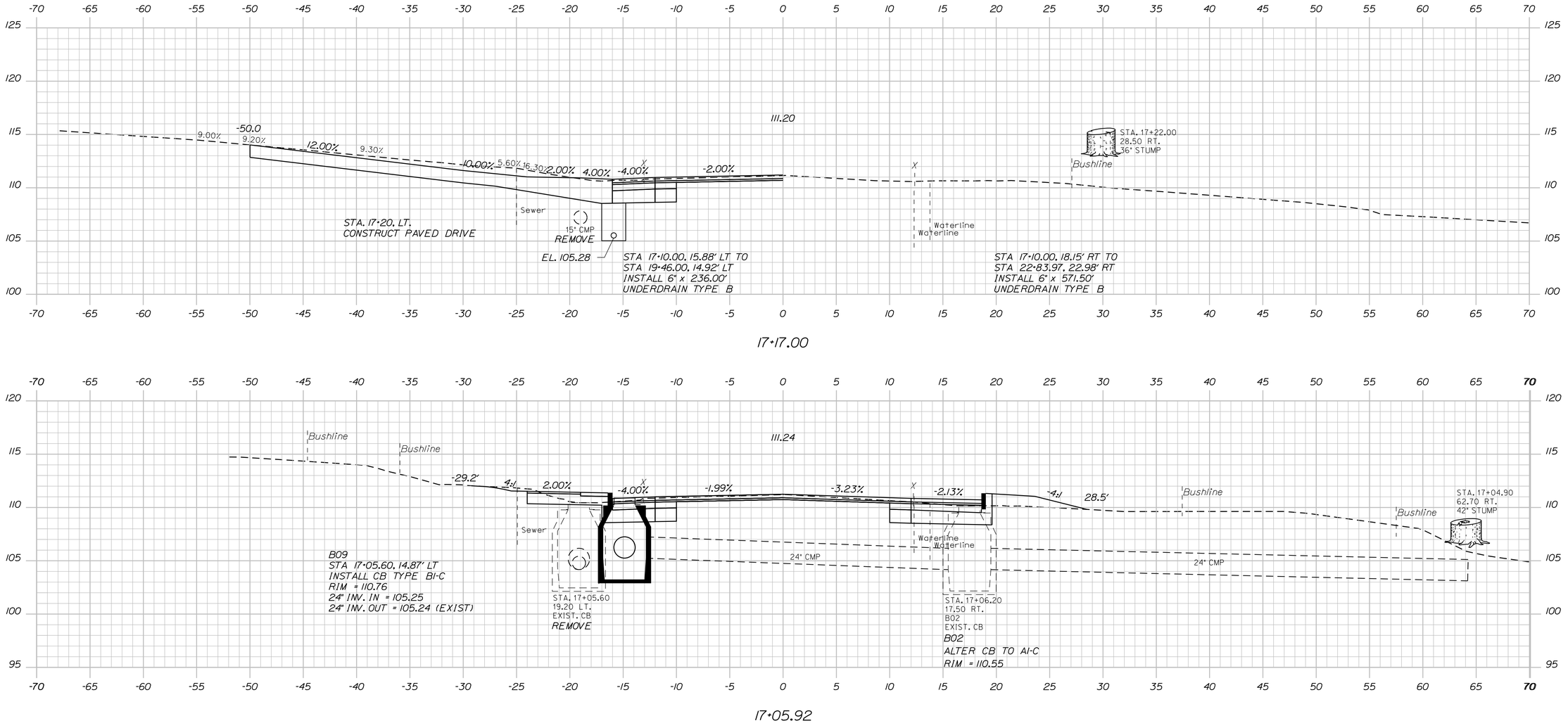
62

OF 213

T.Y.LIN INTERNATIONAL

Sta. 16+50.00 to Sta. 17+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



Sta. 17+05.92 to Sta. 17+17.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

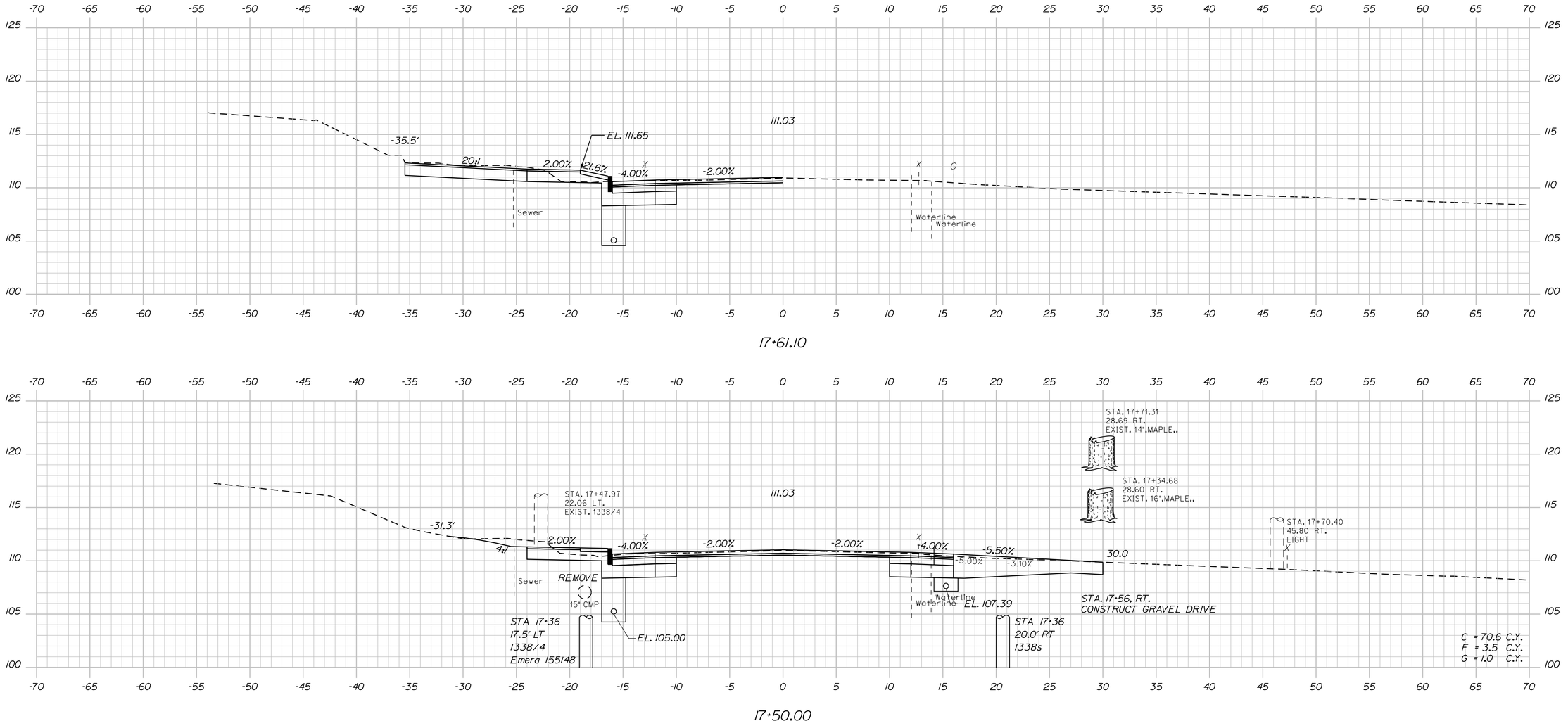
63

OF 213

TY·LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T·Y·LIN INTERNATIONAL

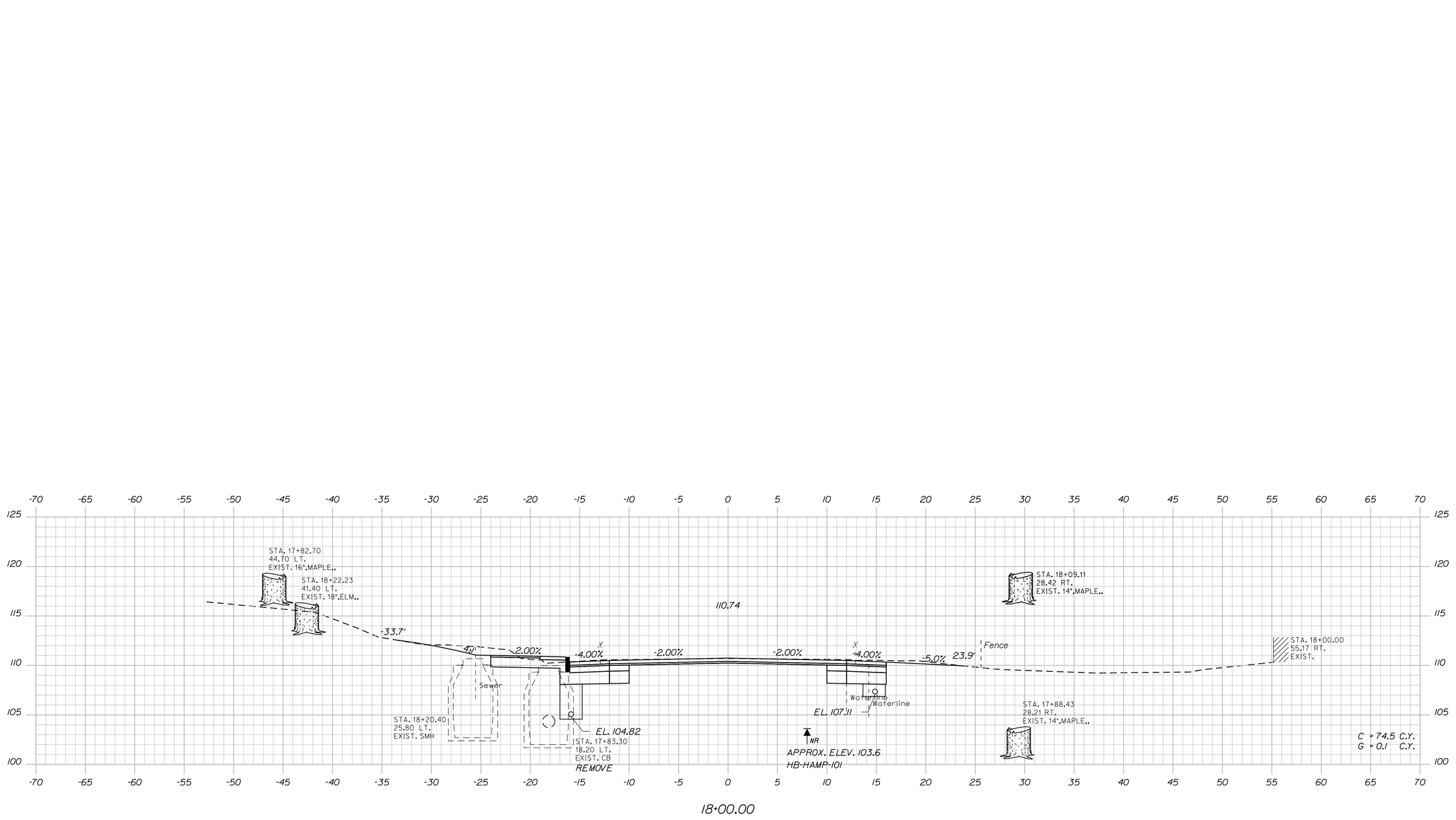
SHEET NUMBER

64

OF 213

Sta. 17+50.00 to Sta. 17+61.10

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2		KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SIGNATURE

P.E. NUMBER

DATE

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

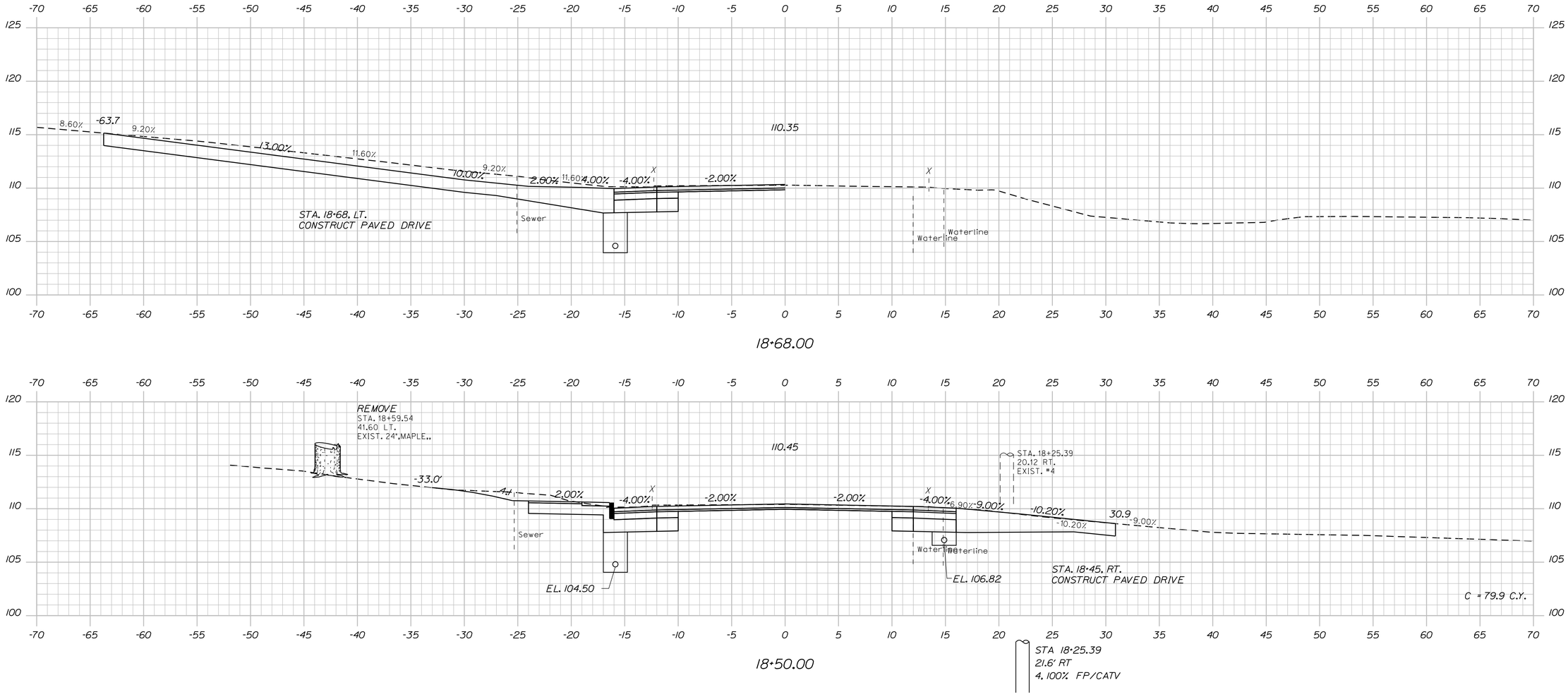
T·Y·LIN INTERNATIONAL

SHEET NUMBER

65

OF 213

Sta. 18+00.00 to Sta. 18+00.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

66

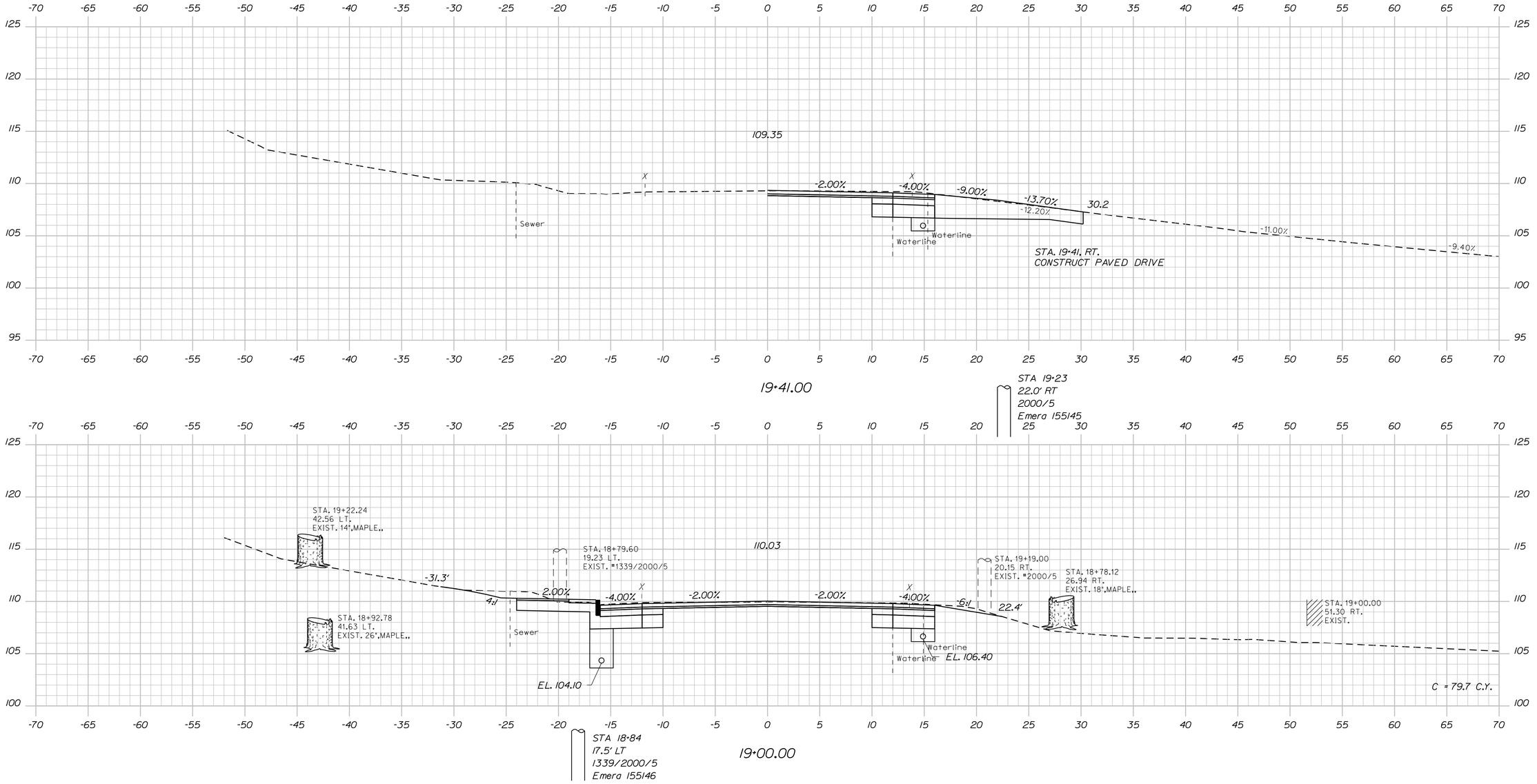
OF 213

T.Y.LIN INTERNATIONAL

Sta. 18+50.00 to Sta. 18+68.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Username: Division: HIGHWAY Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY | DATE

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

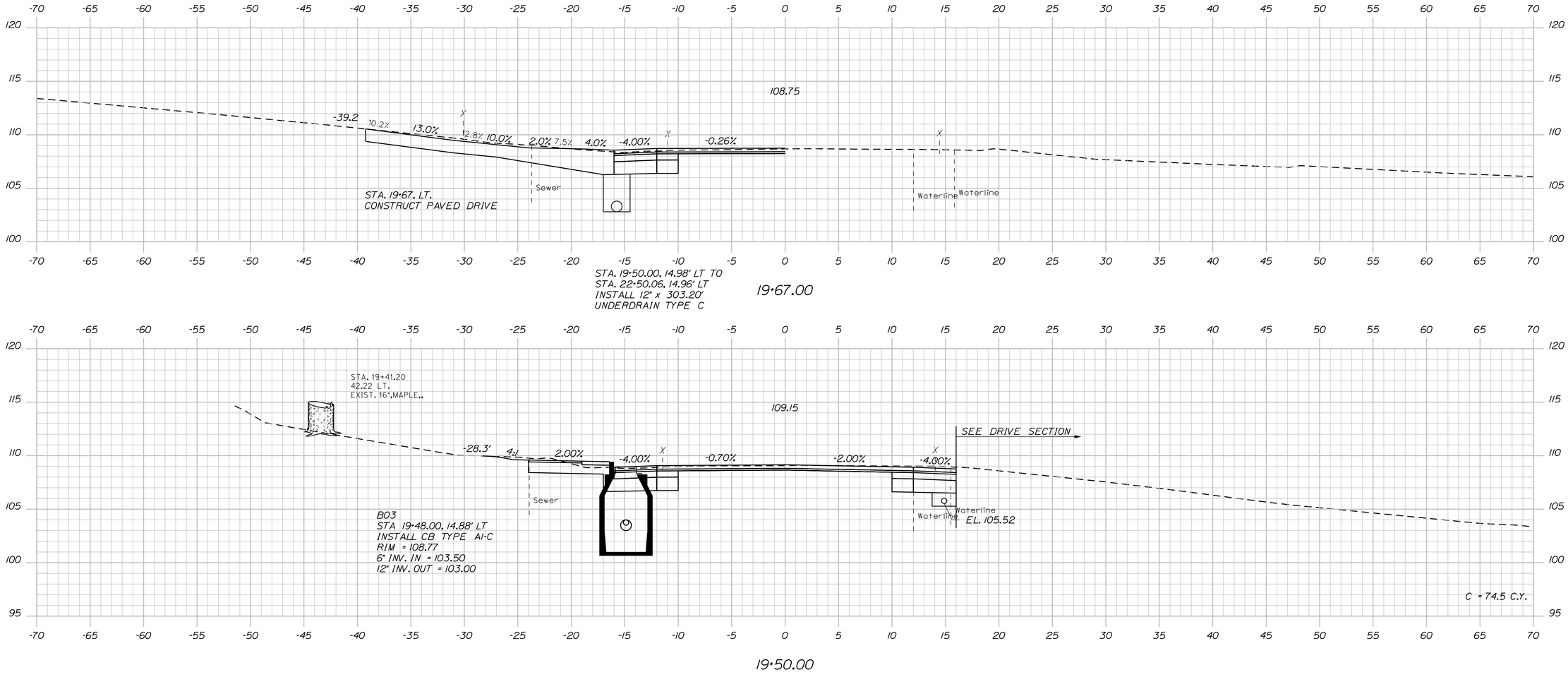
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SHEET NUMBER

67

OF 213

Sta. 19+00.00 to Sta. 19+41.00



Sta. 19+50.00 to Sta. 19+67.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
DESIGNED	TSK	12/17
DETAILED	KSD	12/17
CHECKED		
QUALITY CONTROL		
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	
CHECKED-REVIEWED	JRH	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

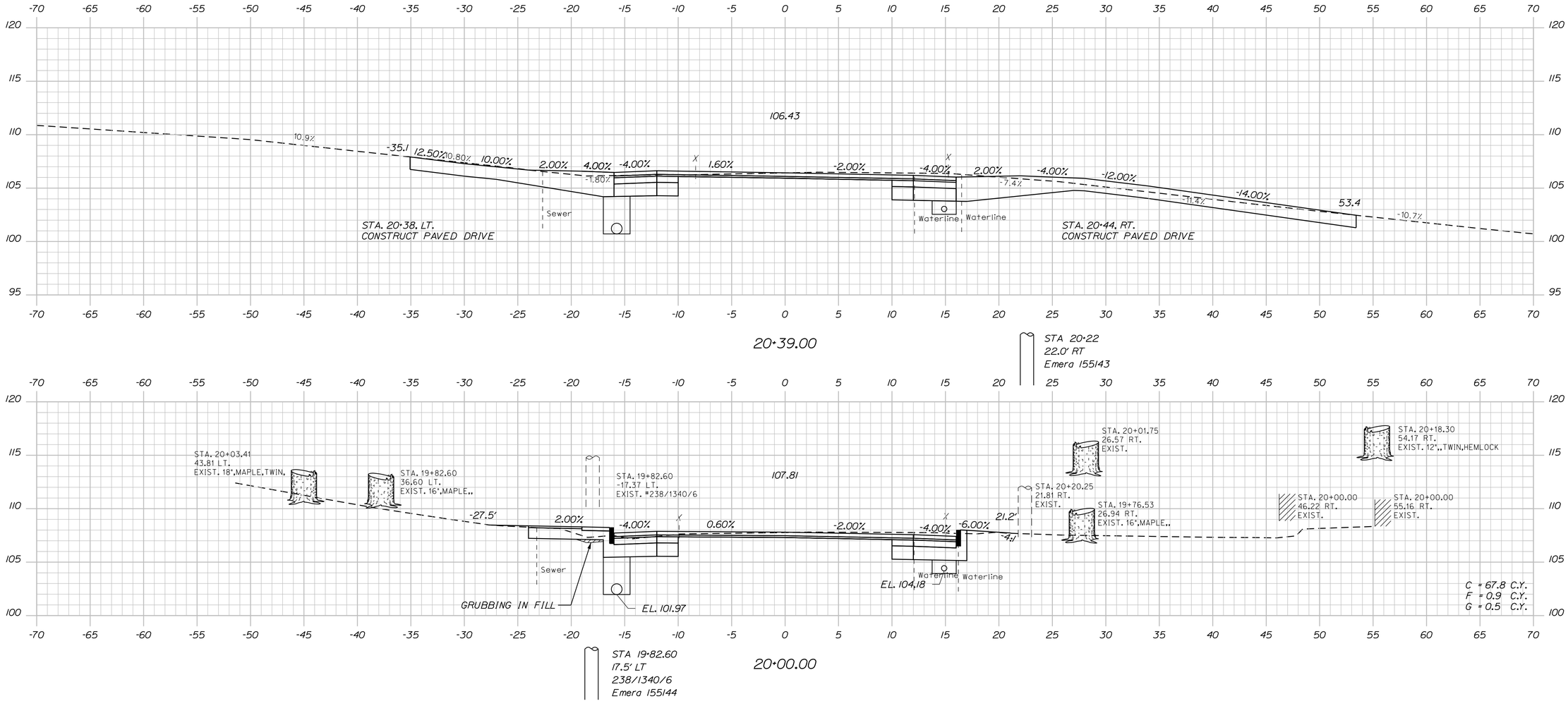
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68

OF 213

T·Y·LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



Sta. 20+00.00 to Sta. 20+39.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	TSK
CHECKED-REVIEWED	JRH		KSD
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

DATE 12/17
DATE 12/17

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

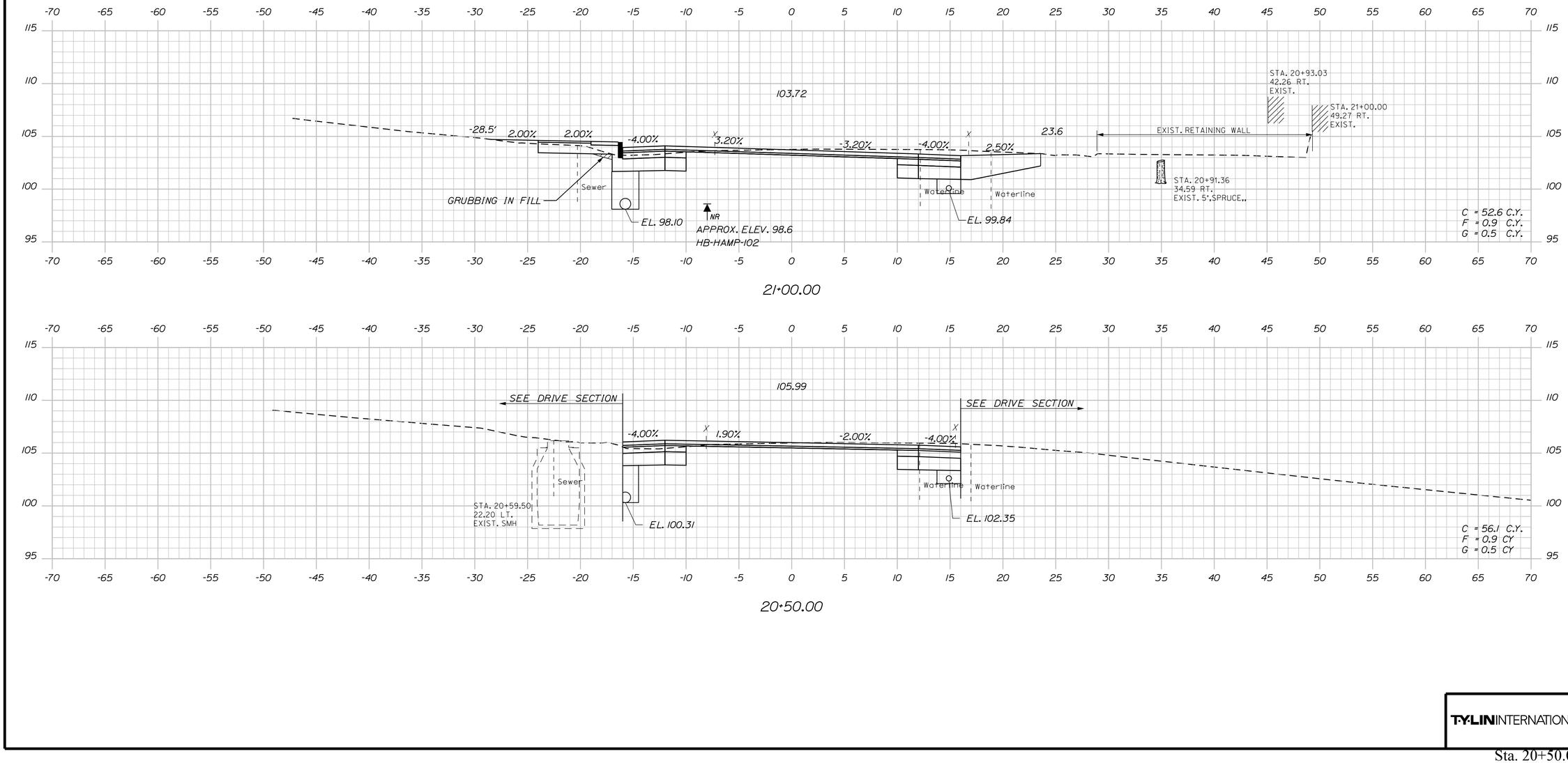
T.Y.LIN INTERNATIONAL

SHEET NUMBER

69

OF 213

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



Sta. 20+50.00 to Sta. 21+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1	TSK	
REVISIONS 2	KSD	
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

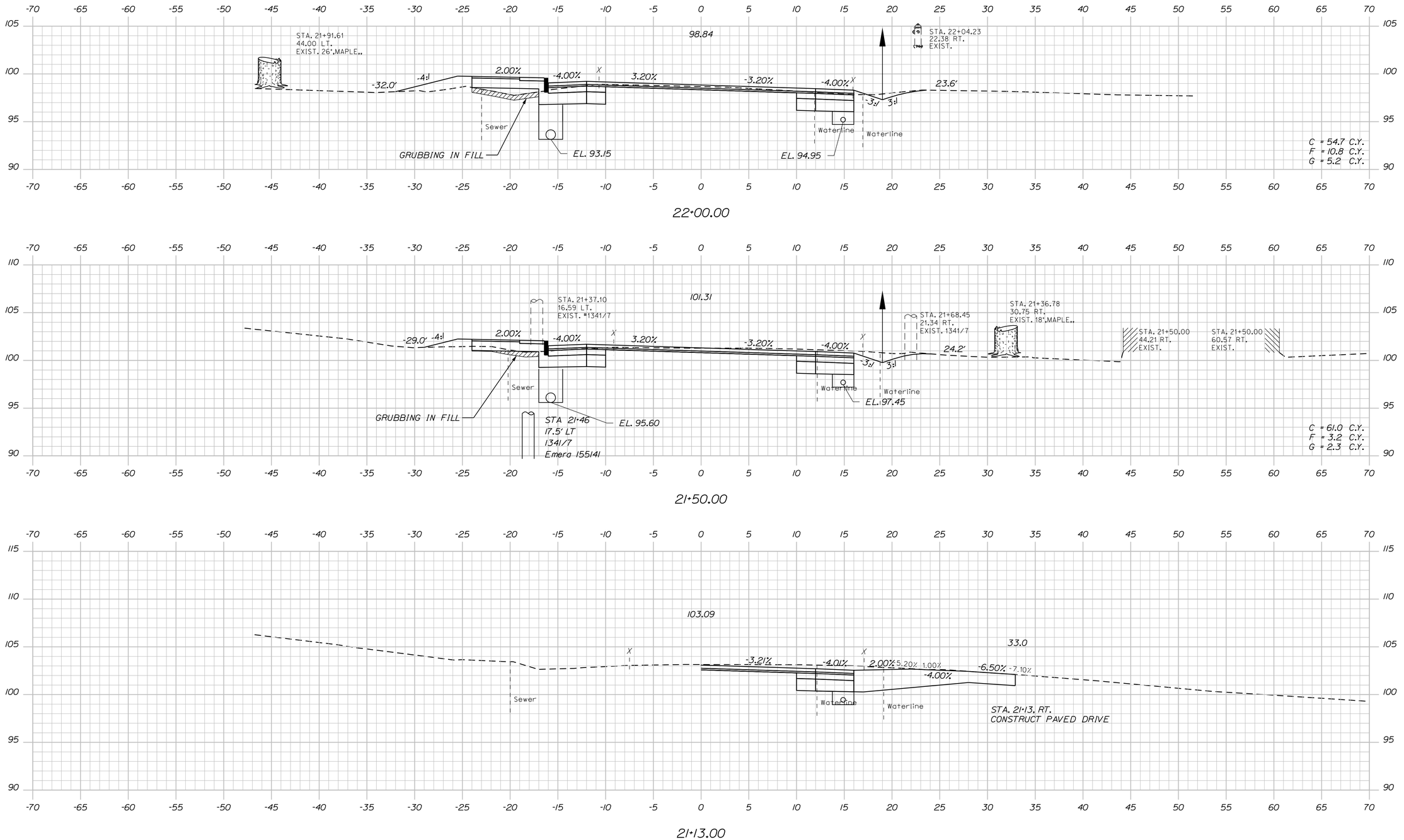
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70

OF 213

T·Y·LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T.Y.LIN INTERNATIONAL

SHEET NUMBER

71

OF 213

Sta. 21+13.00 to Sta. 22+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	TSK
CHECKED-REVIEWED	JRH	BY	KSD
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

DATE 12/17
DATE 12/17

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

72

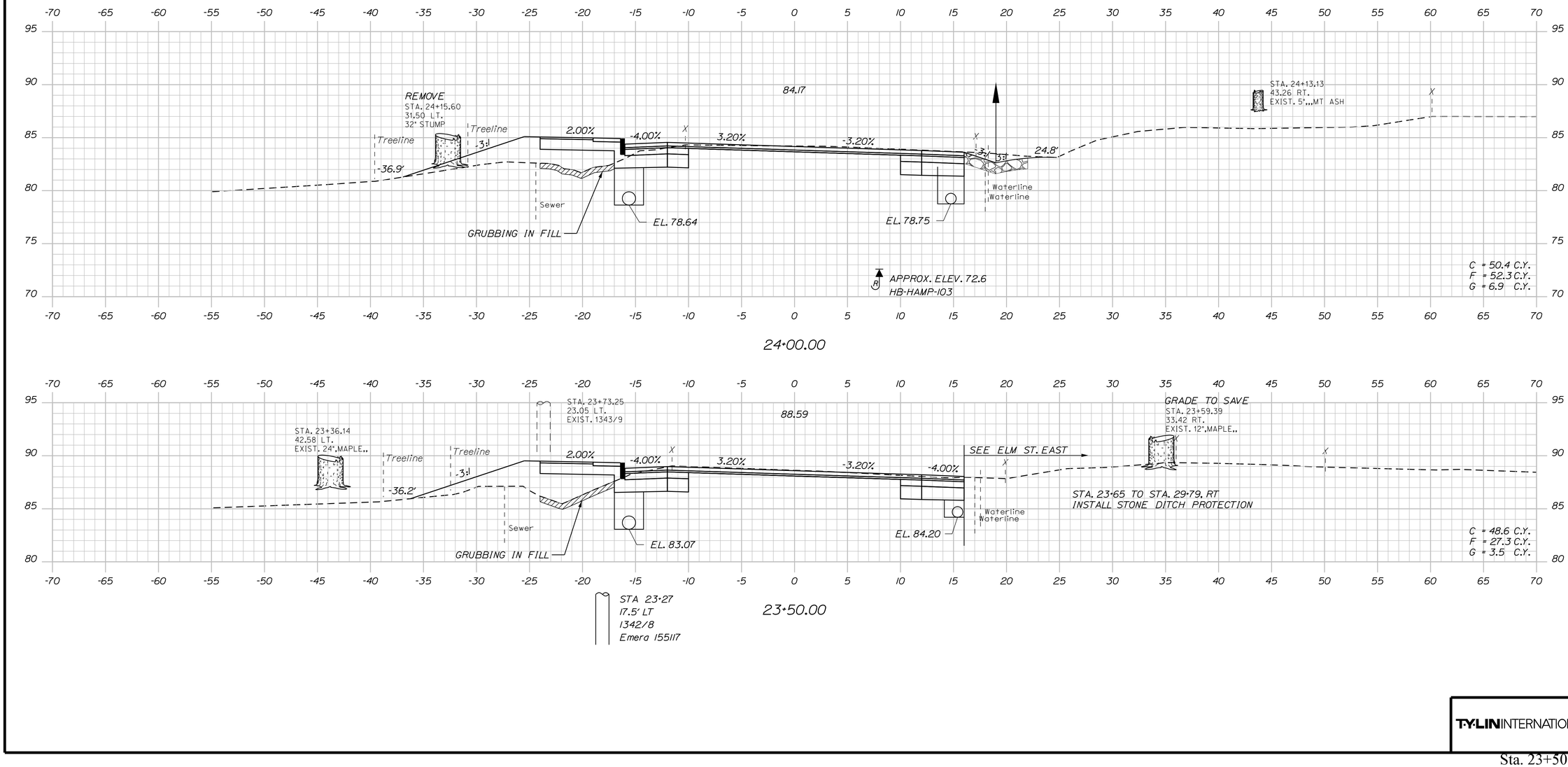
OF 213

T-Y LIN INTERNATIONAL

Sta. 22+50.00 to Sta. 23+00.00

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Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

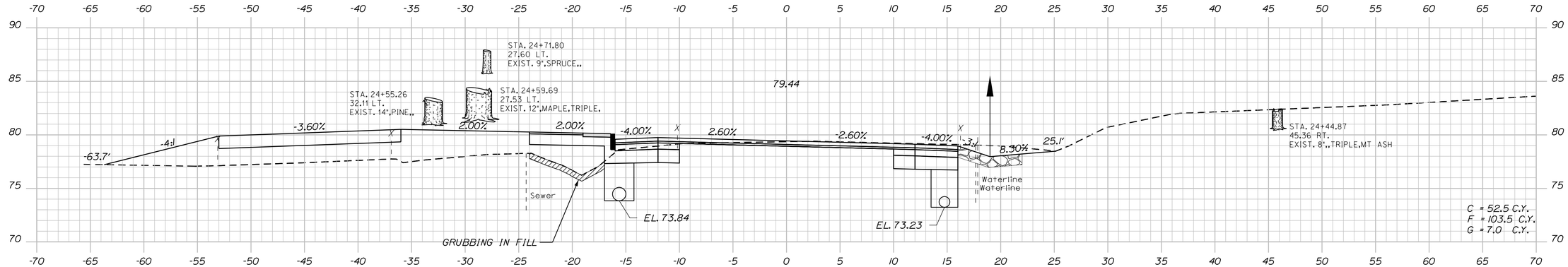
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73

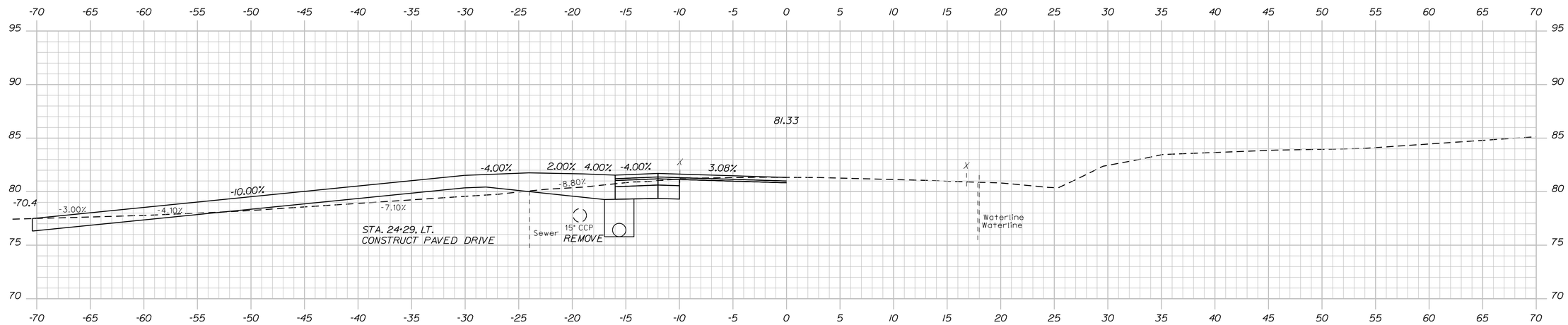
OF 213

T.Y.LIN INTERNATIONAL

Sta. 23+50.00 to Sta. 24+00.00



24+50.00



24+30.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

74

OF 213

T·Y·LIN INTERNATIONAL

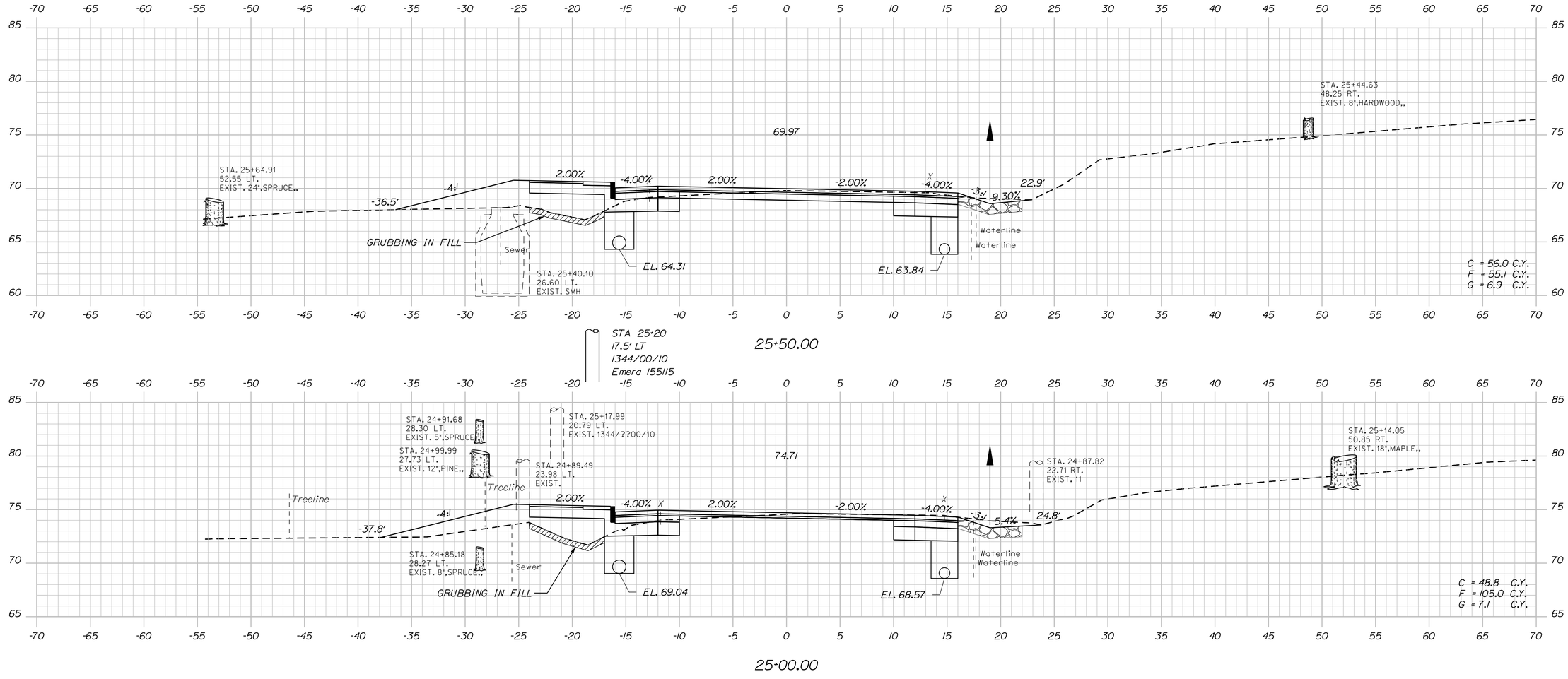
Sta. 24+30.00 to Sta. 24+50.00

Date:3/7/2019

Username:

Division: HIGHWAY

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2		KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

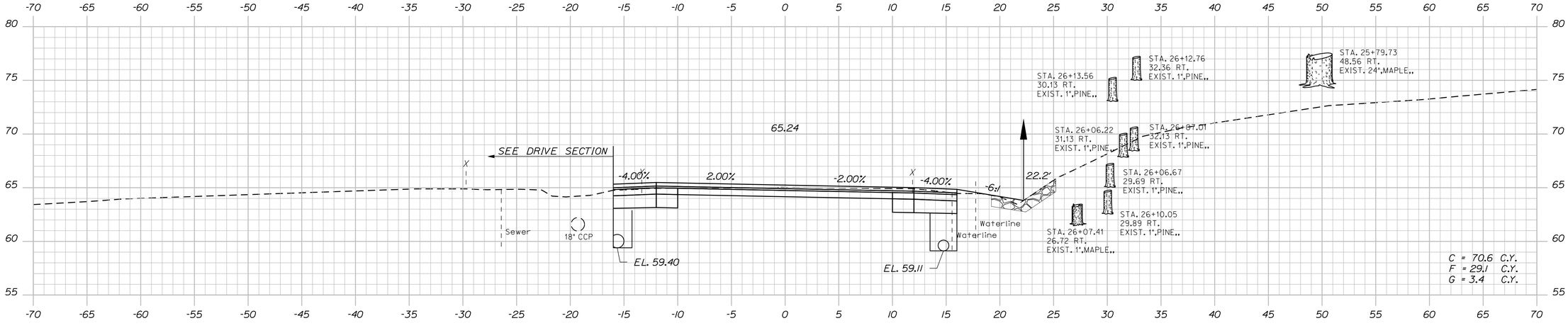
75

OF 213

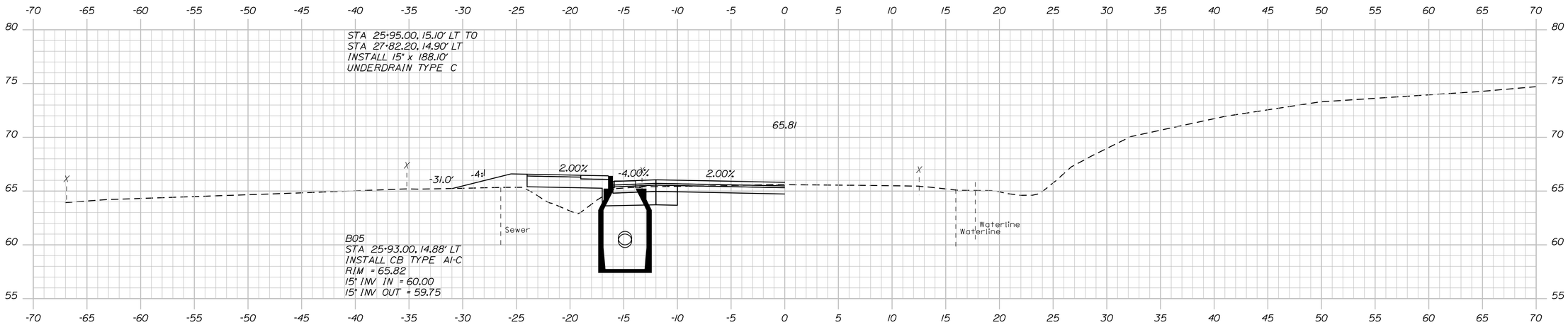
T-Y-LIN INTERNATIONAL

Sta. 25+00.00 to Sta. 25+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



26+00.00



25+94.00

Sta. 25+94.00 to Sta. 26+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
DESIGNED	TSK	12/17
DETAILED	KSD	12/17
CHECKED		
QUALITY CONTROL		
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	
CHECKED-REVIEWED	JRH	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

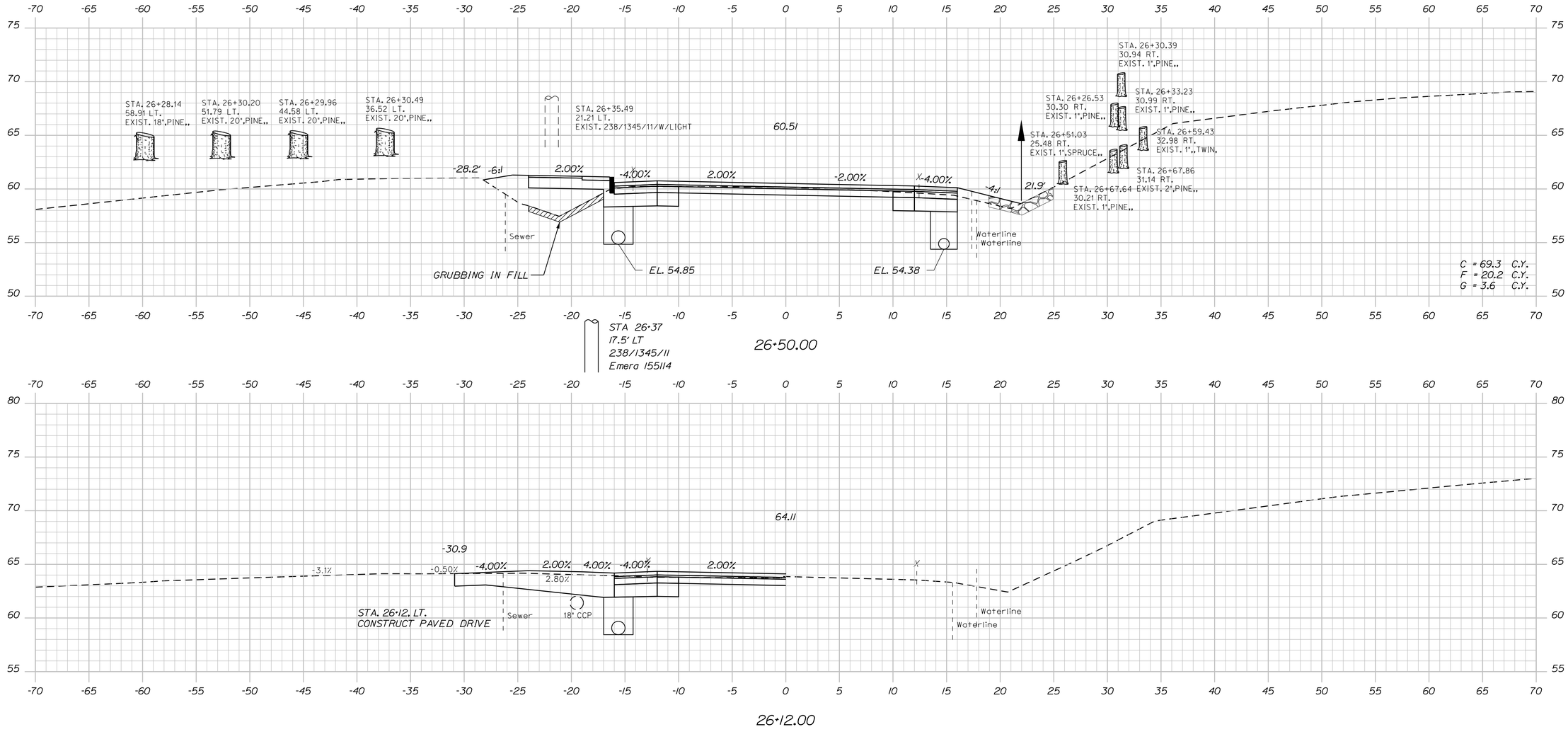
76

OF 213

TYLIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Date:3/7/2019
Username:
Division: HIGHWAY
Filename: ...\HIGHWAY\MSTA\030_XSections.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	TSK
CHECKED-REVIEWED	JRH		KSD
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

	DATE
	12/17
	12/17

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

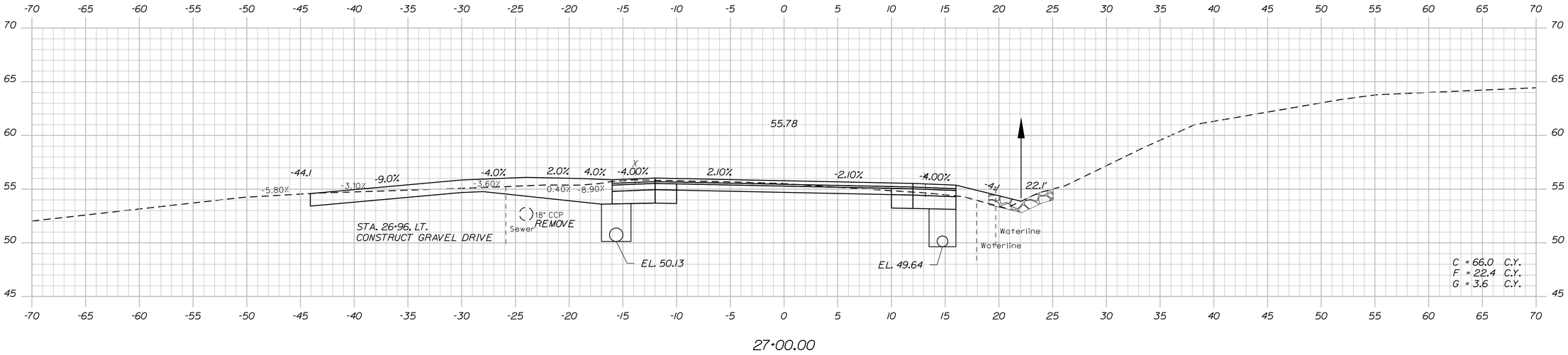
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77

OF 213

T-Y LIN INTERNATIONAL

Sta. 26+12.00 to Sta. 26+50.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T·Y·LIN INTERNATIONAL

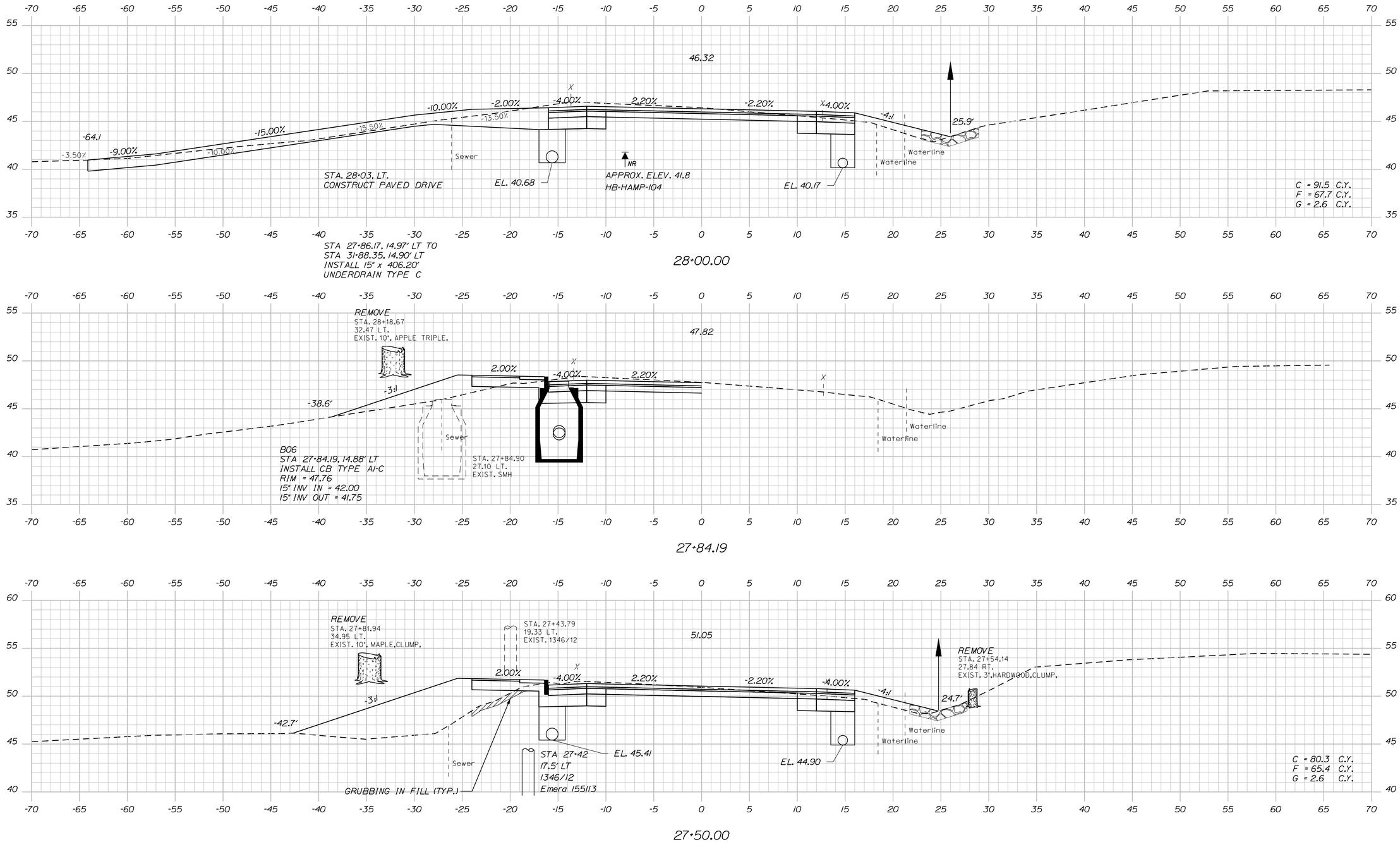
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78

OF 213

Sta. 27+00.00 to Sta. 27+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2		KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

79

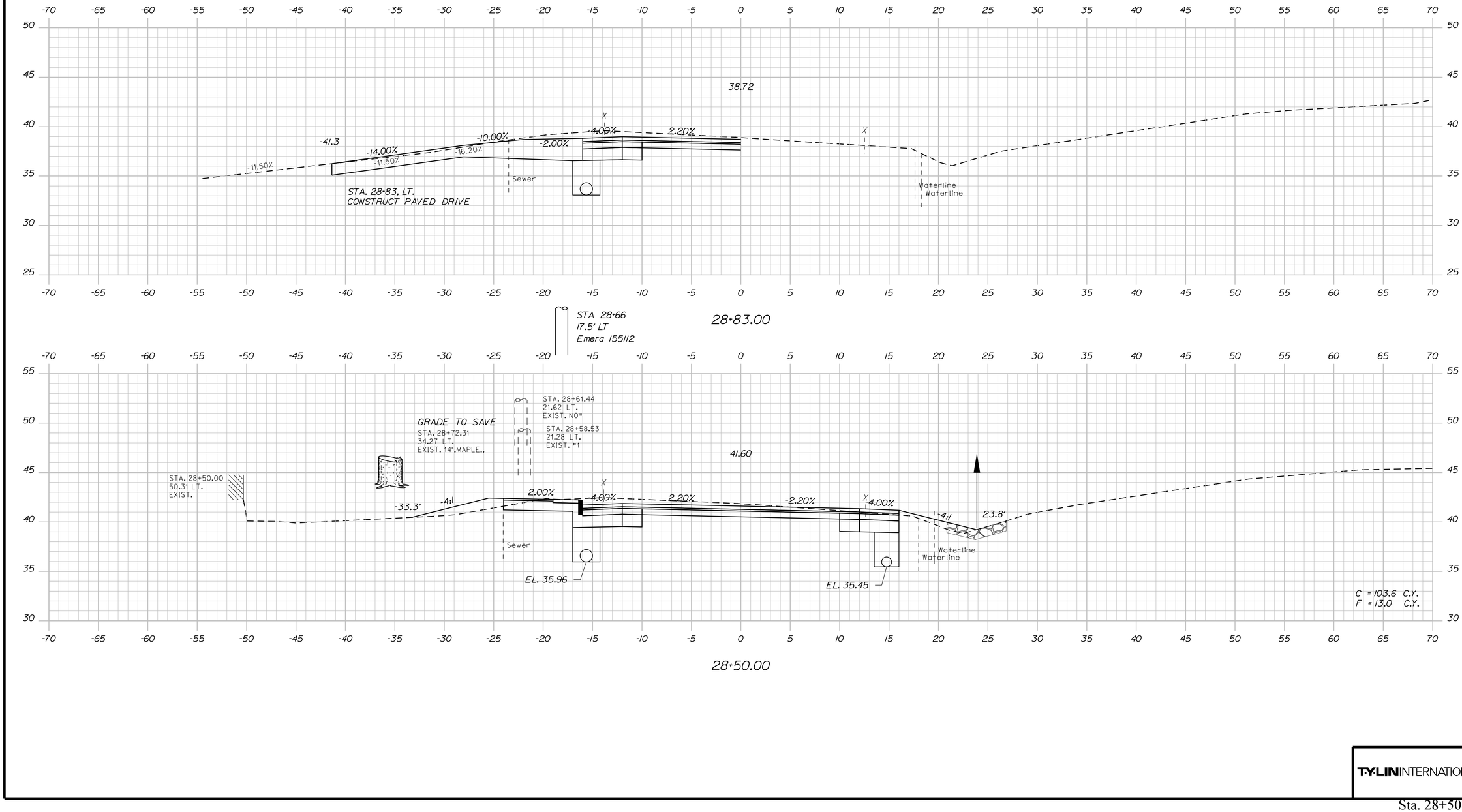
OF 213

T·Y·LIN INTERNATIONAL

Sta. 27+50.00 to Sta. 28+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

TYLININTERNATIONAL

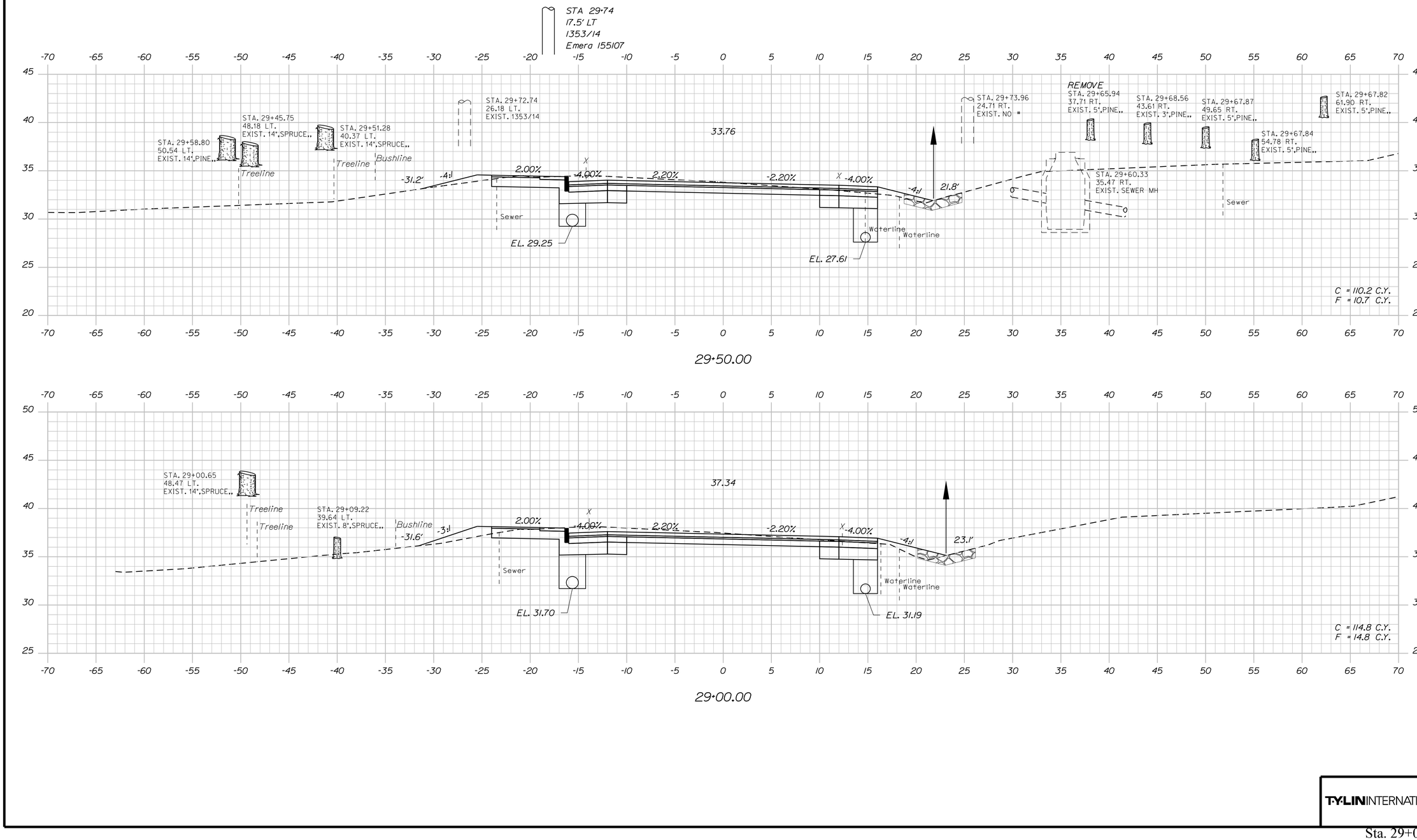
SHEET NUMBER

80

OF 213

Sta. 28+50.00 to Sta. 28+83.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

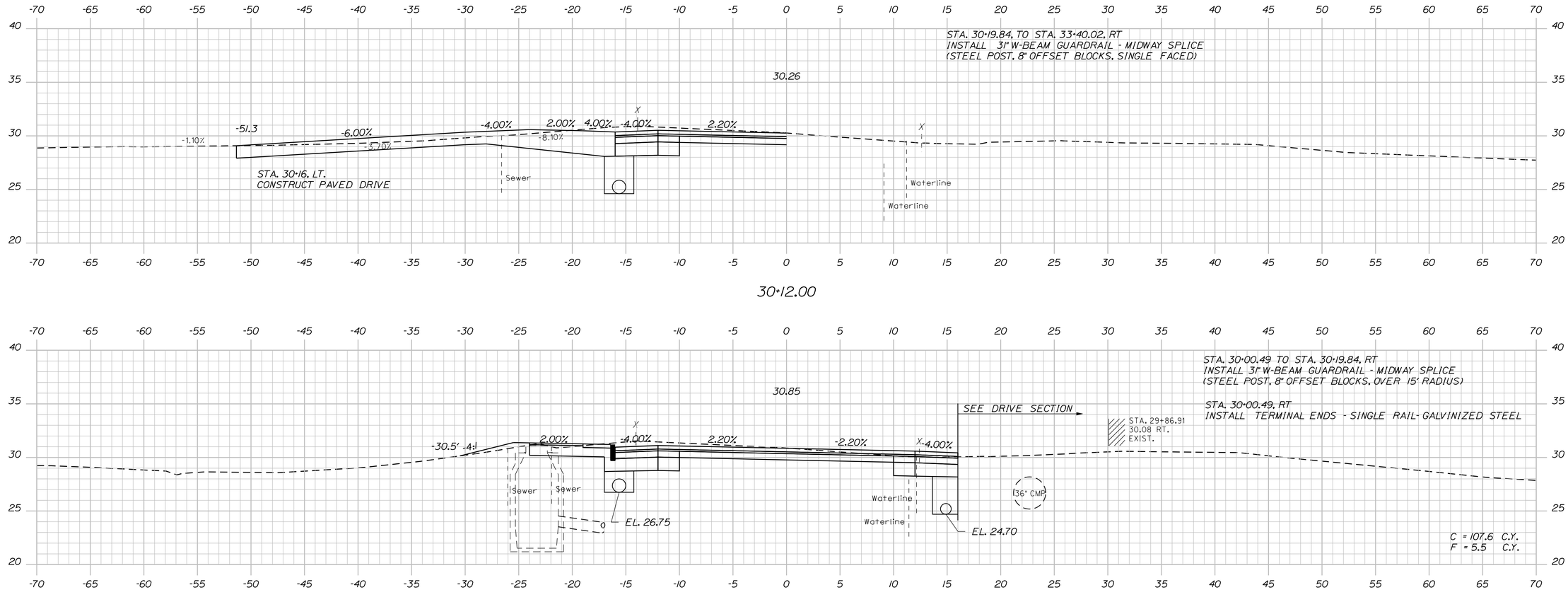
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81

OF 213

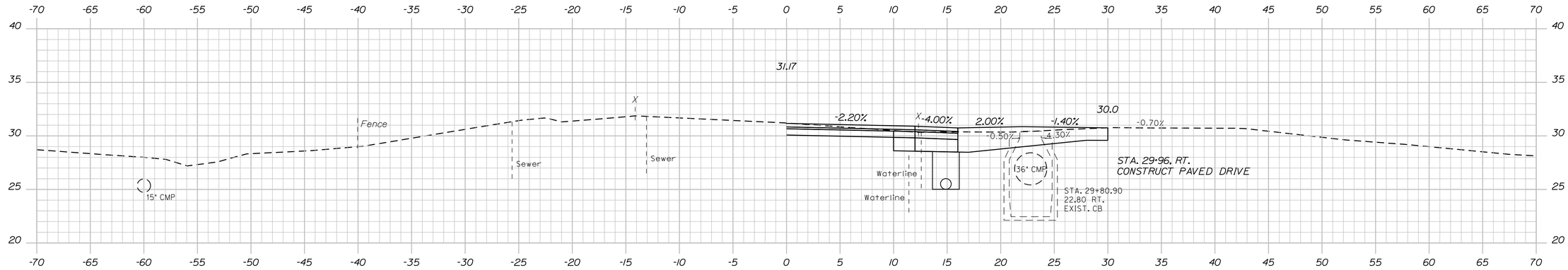
T·Y·LIN INTERNATIONAL

Sta. 29+00.00 to Sta. 29+50.00



30+12.00

30+00.00



29+94.00

Sta. 29+94.00 to Sta. 30+12.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

TYLIN INTERNATIONAL

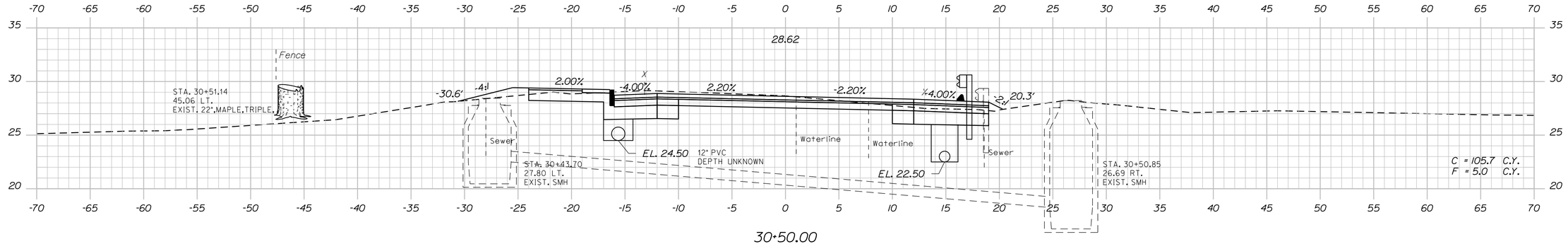
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82

OF 213

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



PROJ. MANAGER	R. MOULTON
DESIGN-DETAILED	JRH
CHECKED-REVIEWED	JRH
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

BY	DATE
TSK	12/17
KSD	12/17

SIGNATURE

P.E. NUMBER

DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

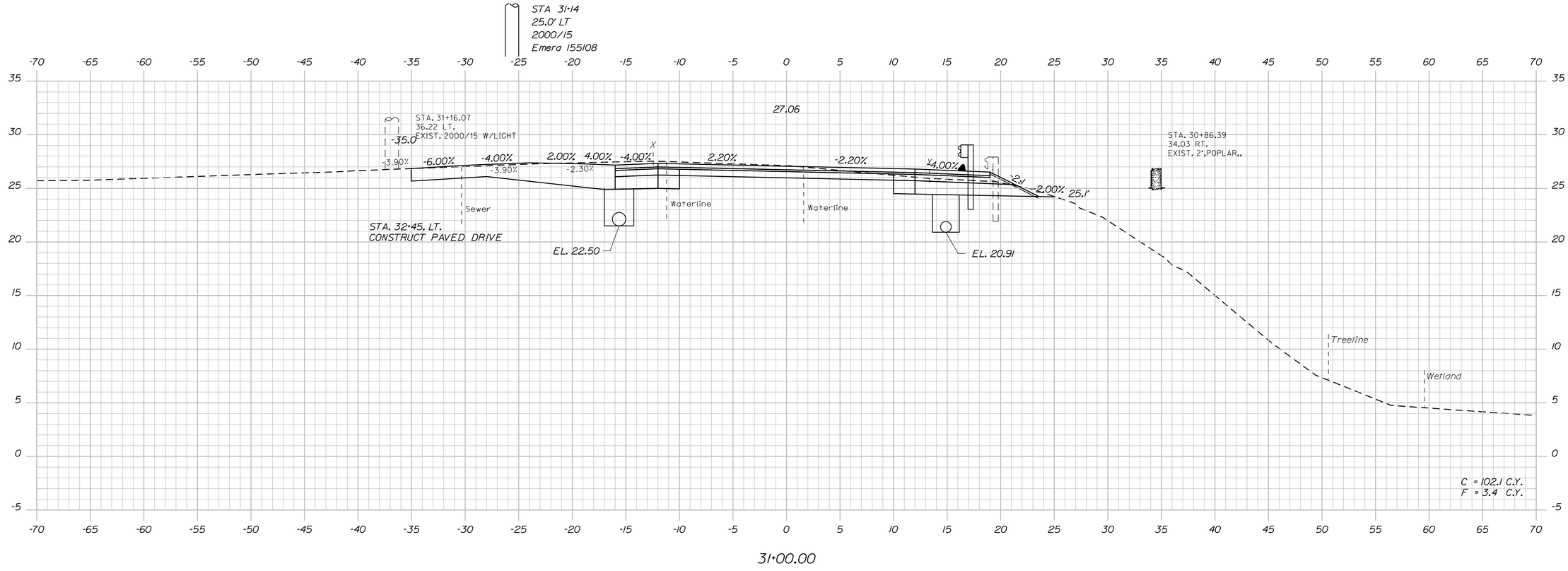
83

OF 213

T·Y·LIN INTERNATIONAL

Sta. 30+50.00 to Sta. 30+94.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER R. MOULTON		
DESIGN-DETAILED	TSK	12/17
CHECKED-REVIEWED	KSD	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T·Y·LIN INTERNATIONAL

SHEET NUMBER

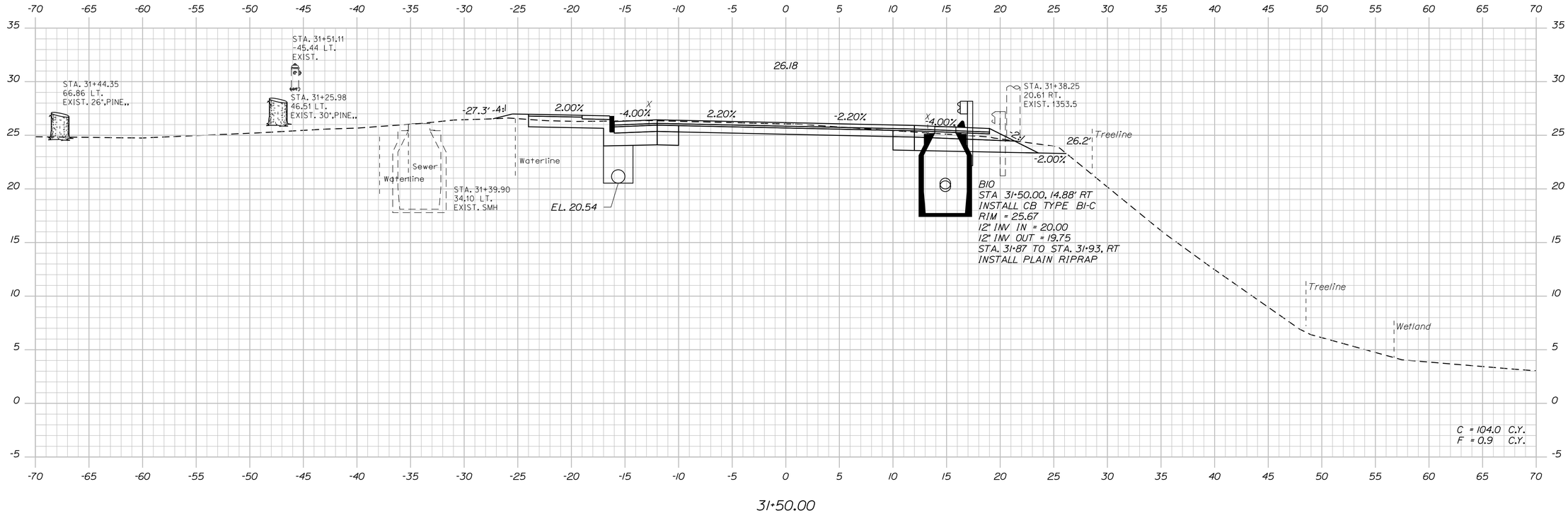
84

OF 213

Sta. 31+00.00 to Sta. 31+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

STA 31+52.00, 14.88' RT TO
STA 31+88.35, 14.88' RT
INSTALL 12" x 36.00'
UNDERDRAIN TYPE C



31+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY DATE

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

85

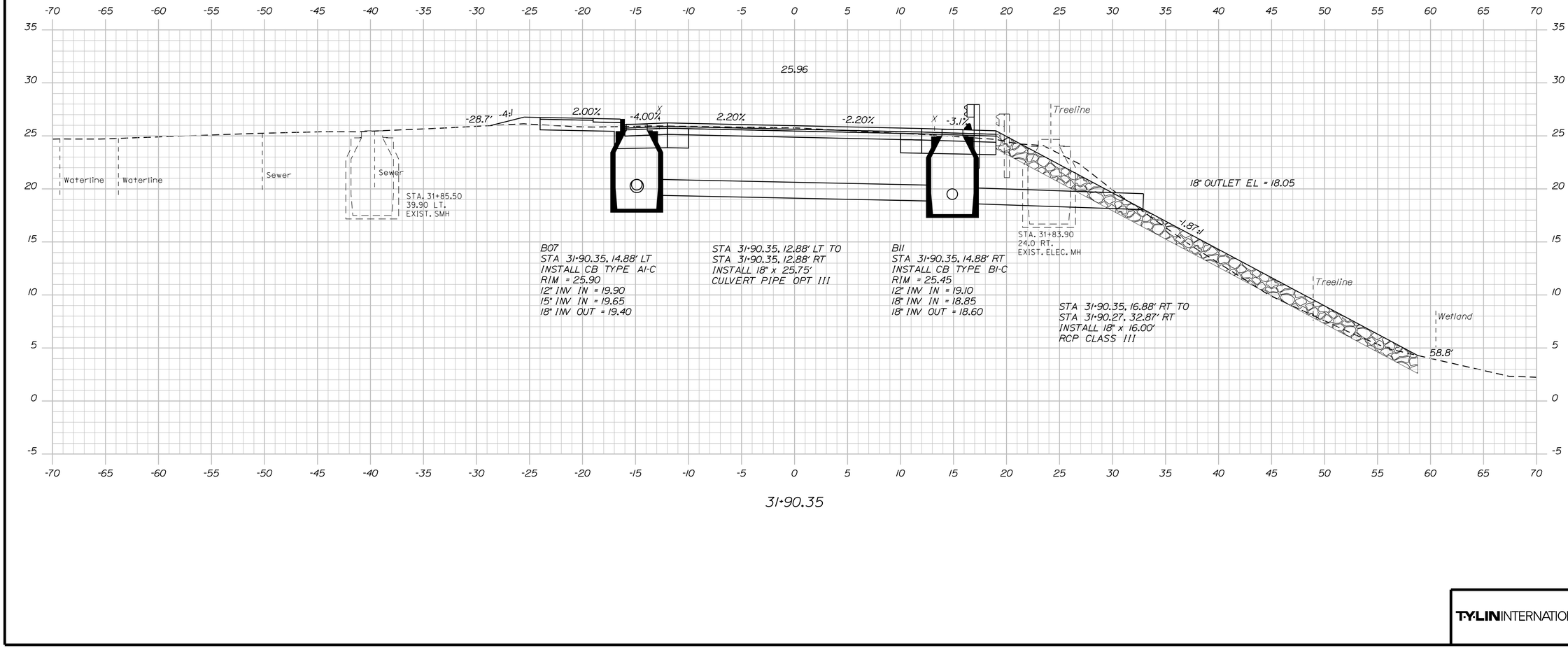
OF 213

T·Y·LIN INTERNATIONAL

Sta. 31+50.00 to Sta. 31+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Username: Division: HIGHWAY Date:3/7/2019

STA 31+92.34, 15.06' LT TO
STA 32+70.89, 14.96' LT
INSTALL 12" x 78.50'
UNDERDRAIN TYPE C



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
DESIGNED	TSK	12/17
DRAWN	KSD	12/17
CHECKED		
QUANTITIES		
QUALITY CONTROL		

SIGNATURE

P.E. NUMBER

DATE

PROJ. MANAGER	R. MOULTON
DESIGN-DETAILED	JRH
CHECKED-REVIEWED	JRH
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

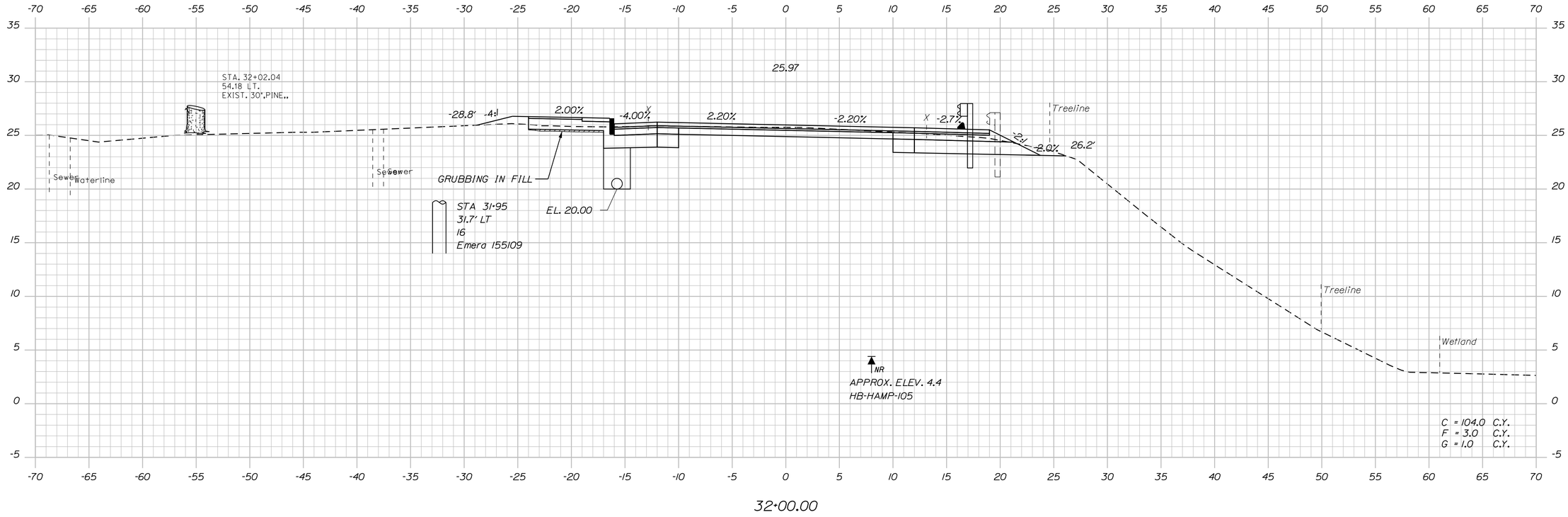
TYLININTERNATIONAL

SHEET NUMBER

86

OF 213

Sta. 31+90.35



Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

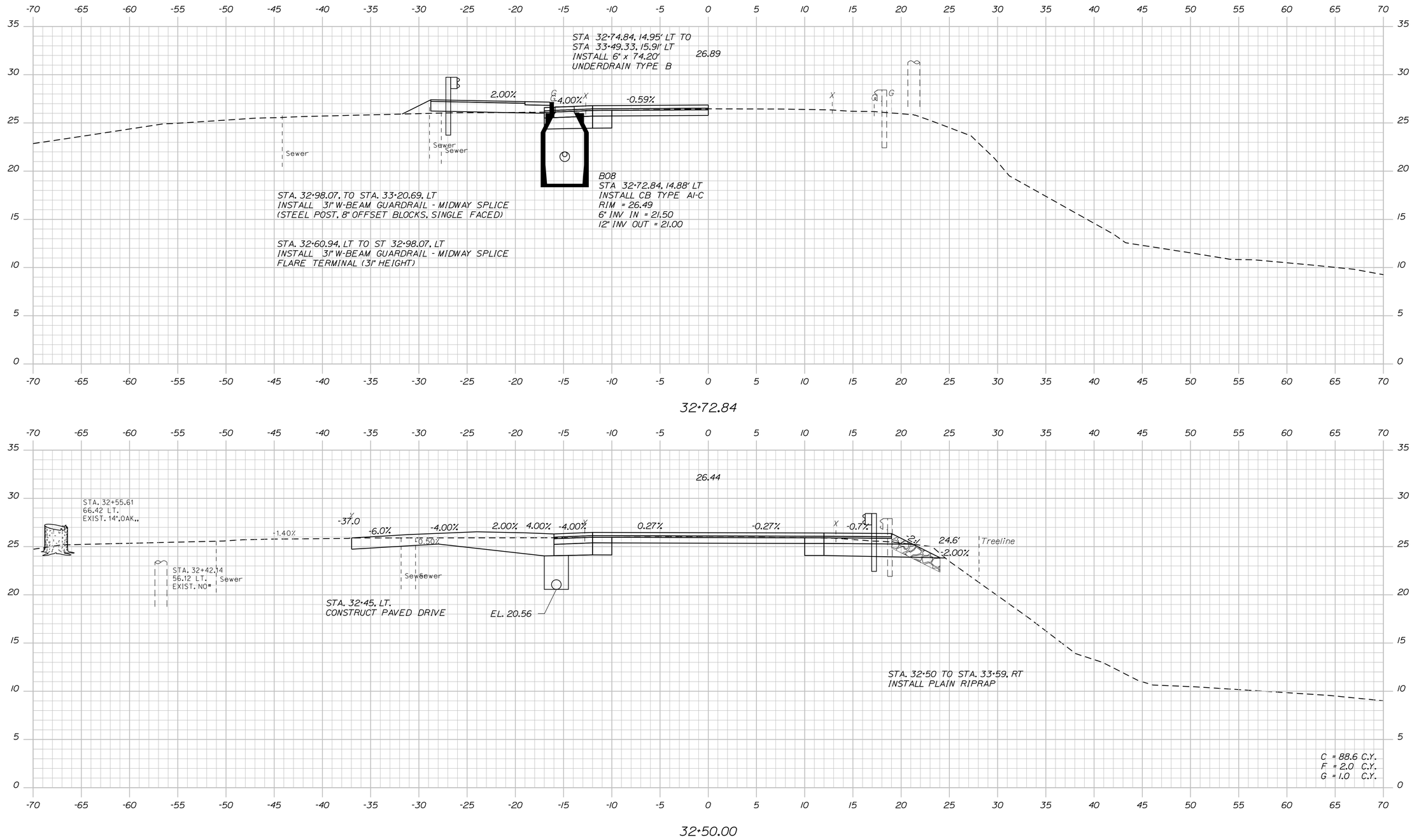
SHEET NUMBER

87

OF 213

T·Y·LIN INTERNATIONAL

Sta. 32+00.00 to Sta. 32+00.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

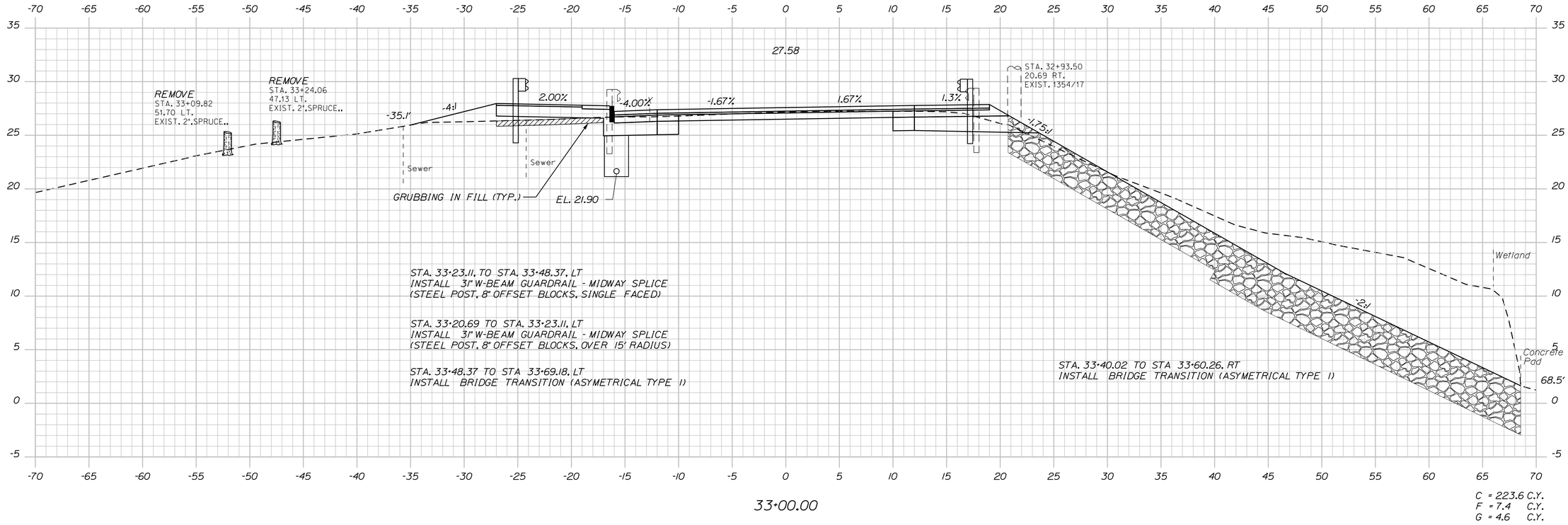
88

OF 213

T·Y·LIN INTERNATIONAL

Sta. 32+50.00 to Sta. 32+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



C = 223.6 C.Y.
F = 7.4 C.Y.
G = 4.6 C.Y.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY | DATE

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

89

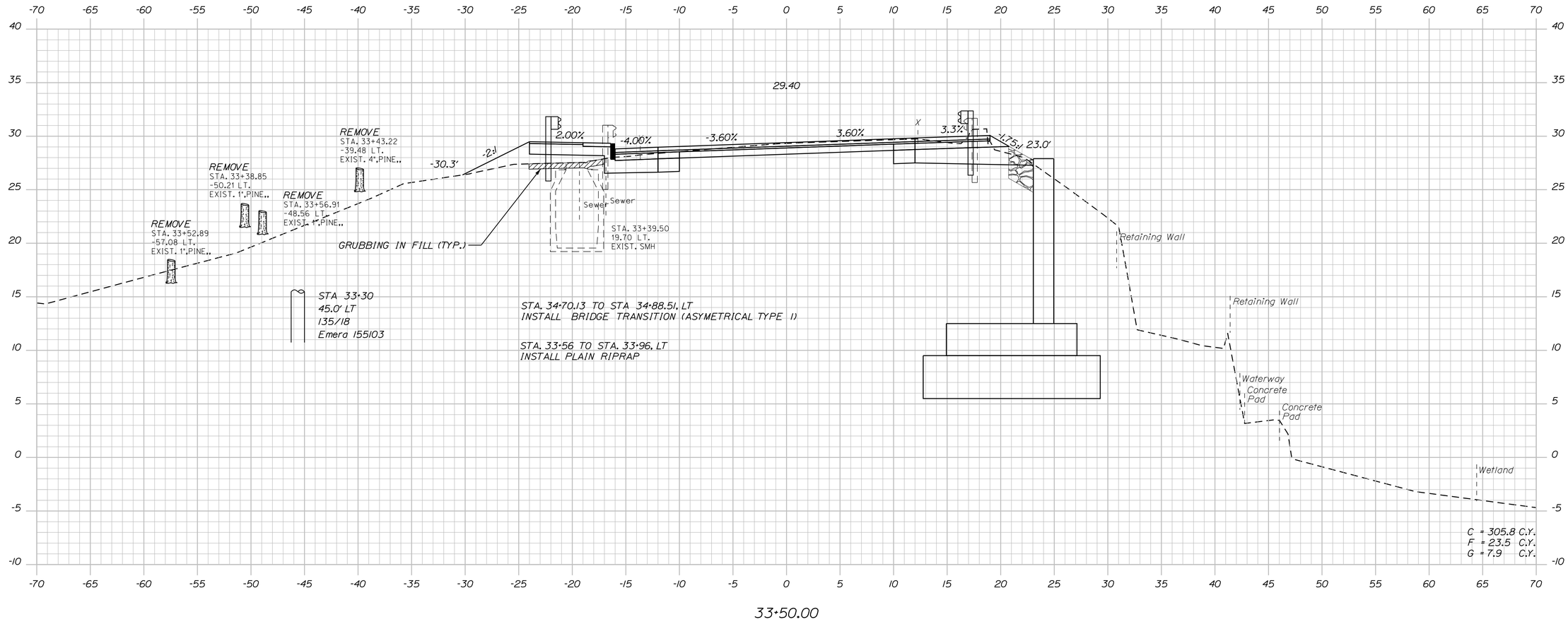
OF 213

T·Y·LIN INTERNATIONAL

Sta. 33+00.00 to Sta. 33+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Date:3/7/2019
Username:
Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	R. MOULTON	DATE
PROJ. MANAGER		
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2	WED	
DESIGN3-DETAILED3	ED2	
REVISIONS 1	ED3	
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BY	DATE
TSK	12/17
KSD	12/17

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

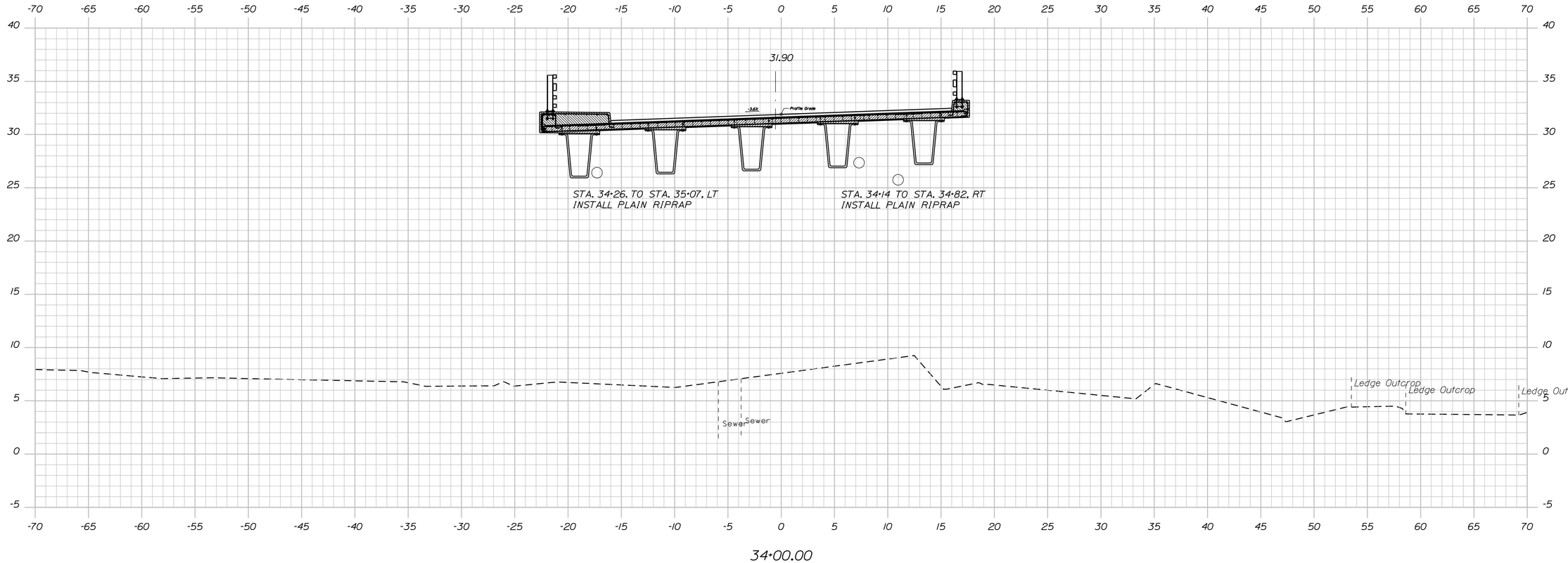
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90

OF 213

T·Y·LIN INTERNATIONAL

Sta. 33+50.00 to Sta. 33+50.00



Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username:

Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

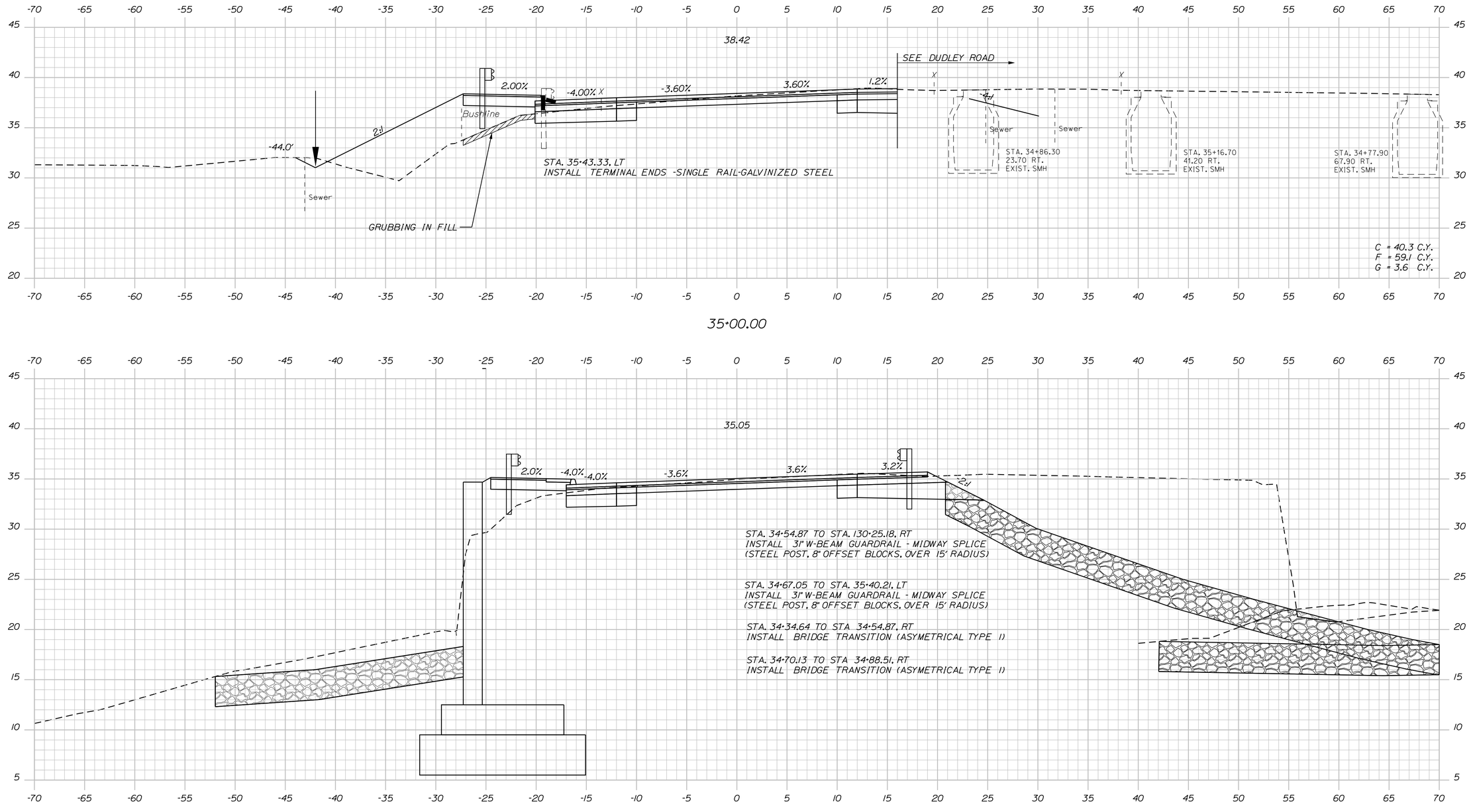
T·Y·LIN INTERNATIONAL

SHEET NUMBER

91

OF 213

Sta. 34+00.00 to Sta. 34+00.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	TSK
CHECKED-REVIEWED	JRH		KSD
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

DATE 12/17 12/17

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

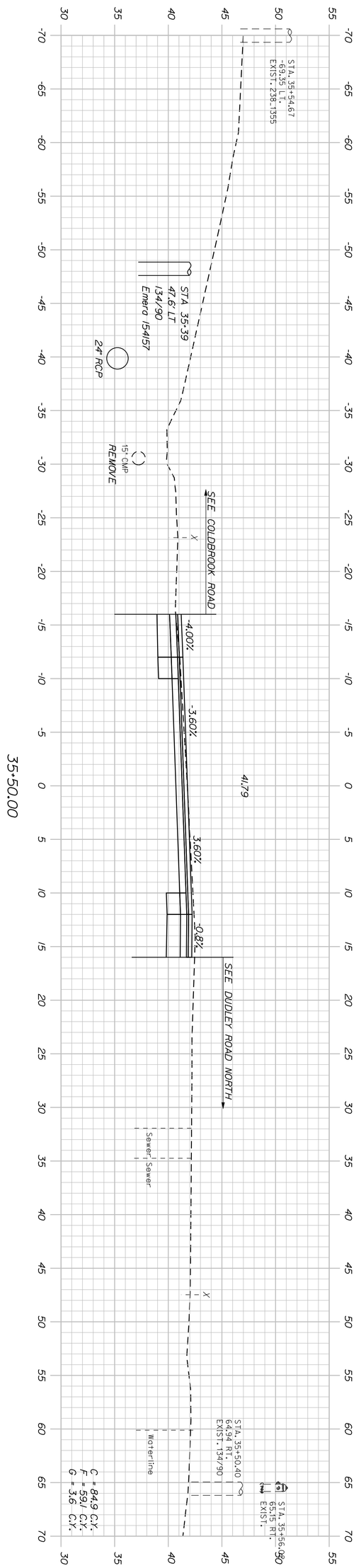
92

OF 213

T·Y·LIN INTERNATIONAL

Sta. 34+50.00 to Sta. 35+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



TYLININTERNATIONAL

SHEET NUMBER 93 OF 213

Sta. 33+50.00

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

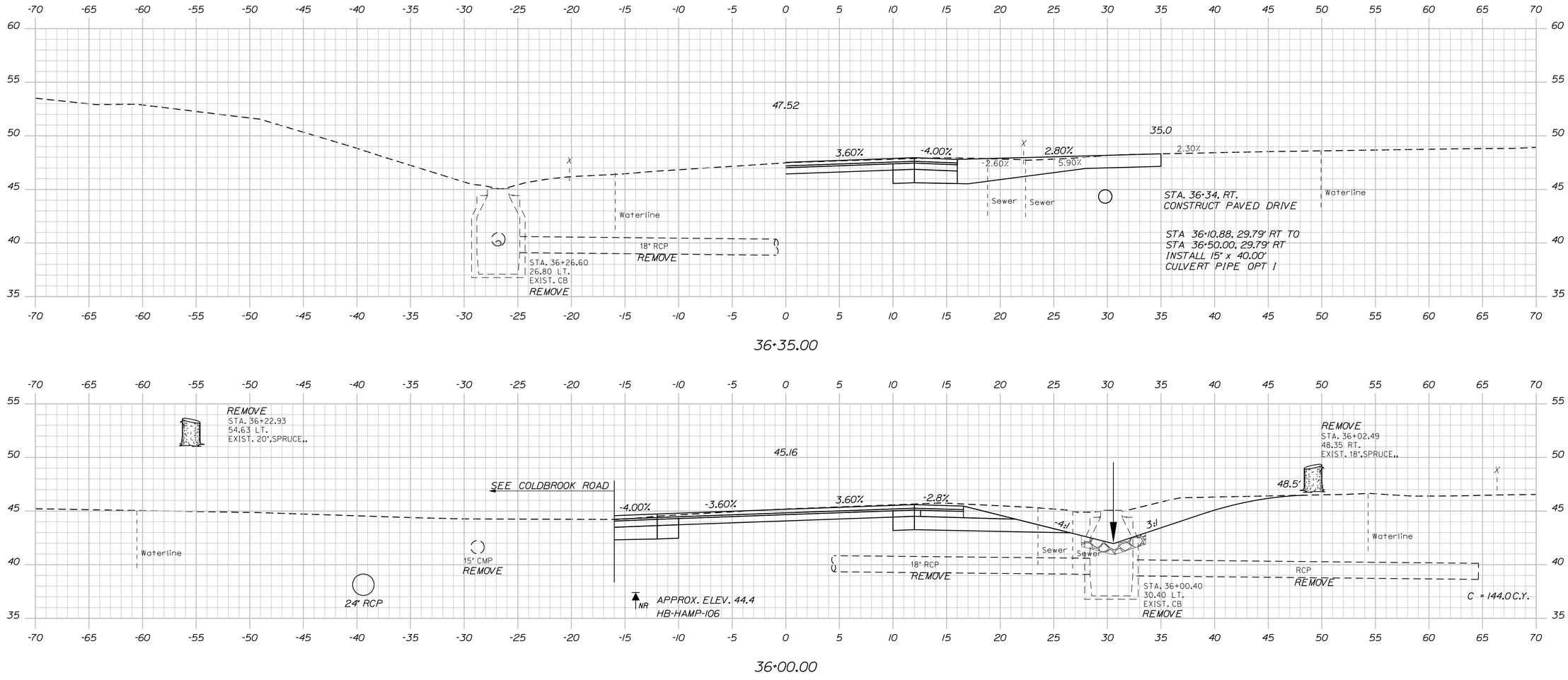
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00 HIGHWAY PLANS

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

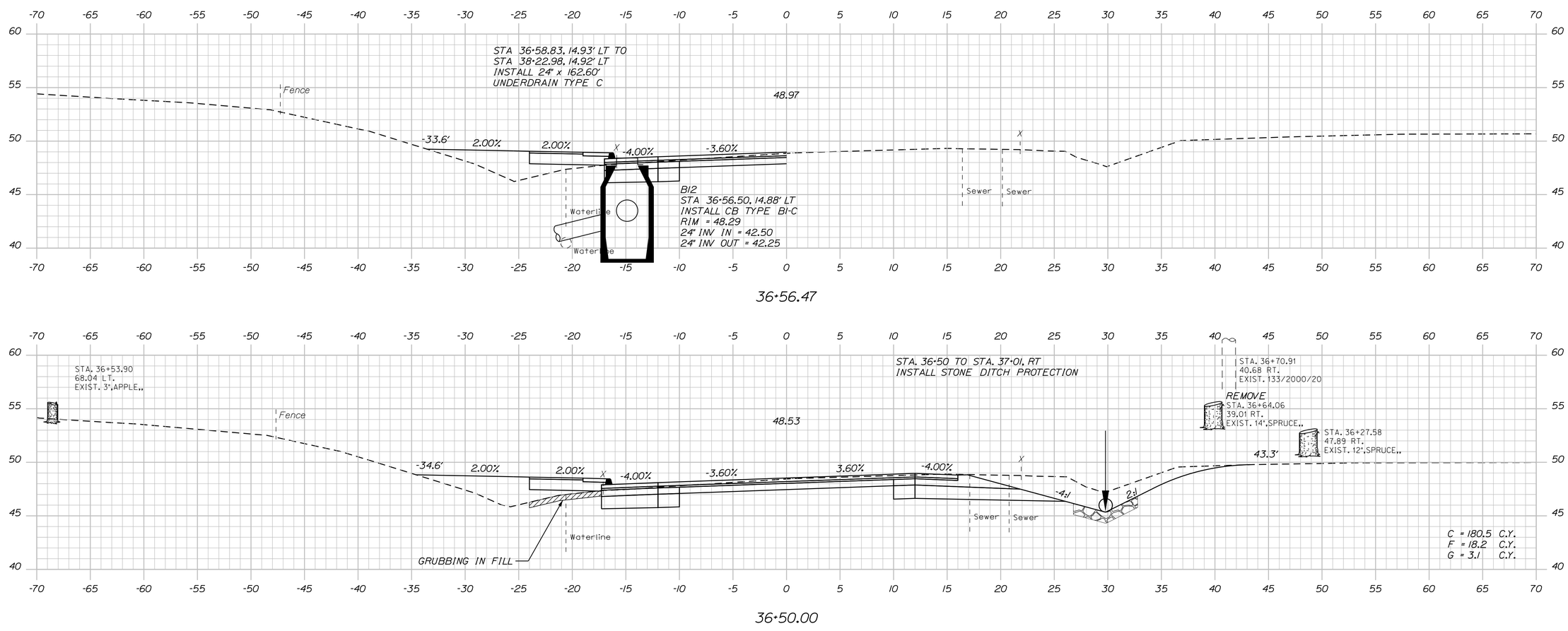
T-Y LIN INTERNATIONAL

SHEET NUMBER

94

OF 213

Sta. 36+00.00 to Sta. 36+35.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

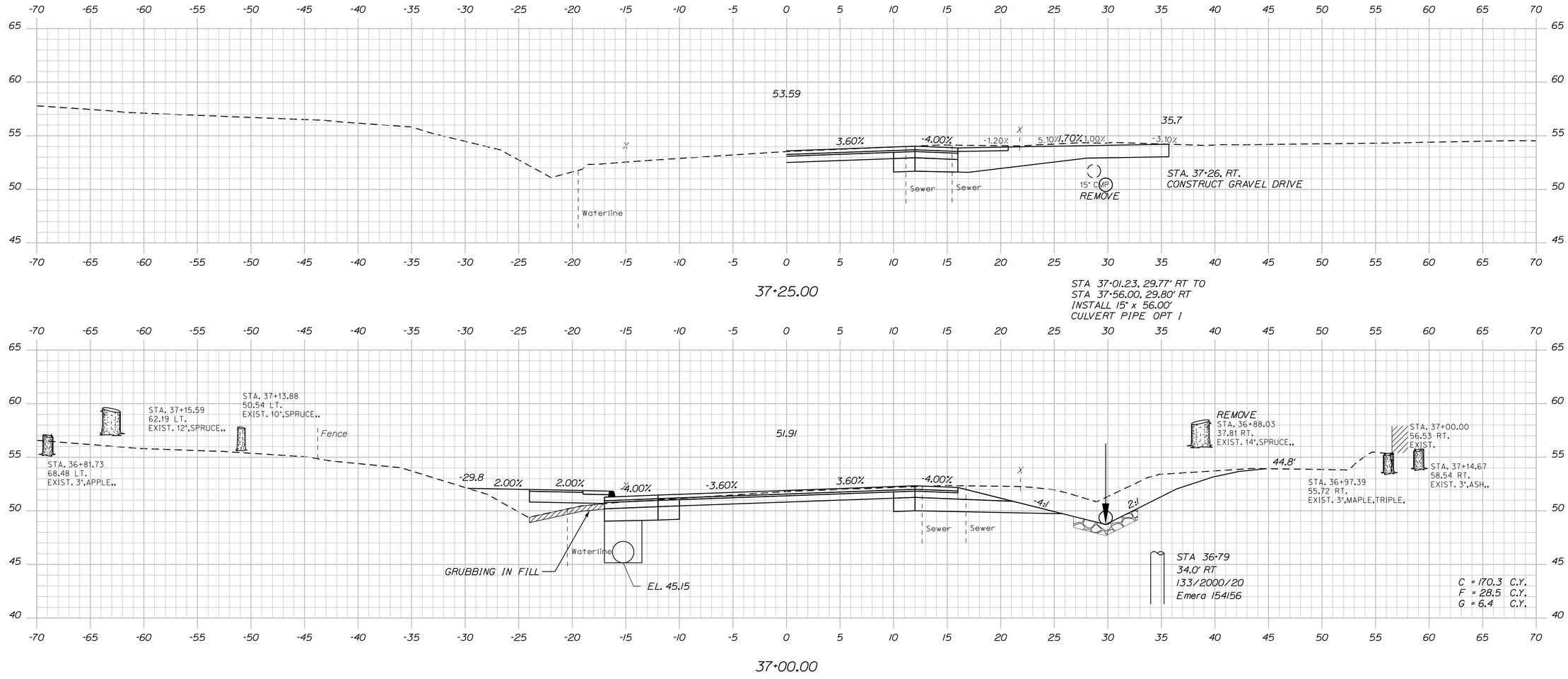
95

OF 213

T-Y LIN INTERNATIONAL

Sta. 36+50.00 to Sta. 36+56.47

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



Sta. 37+00.00 to Sta. 37+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

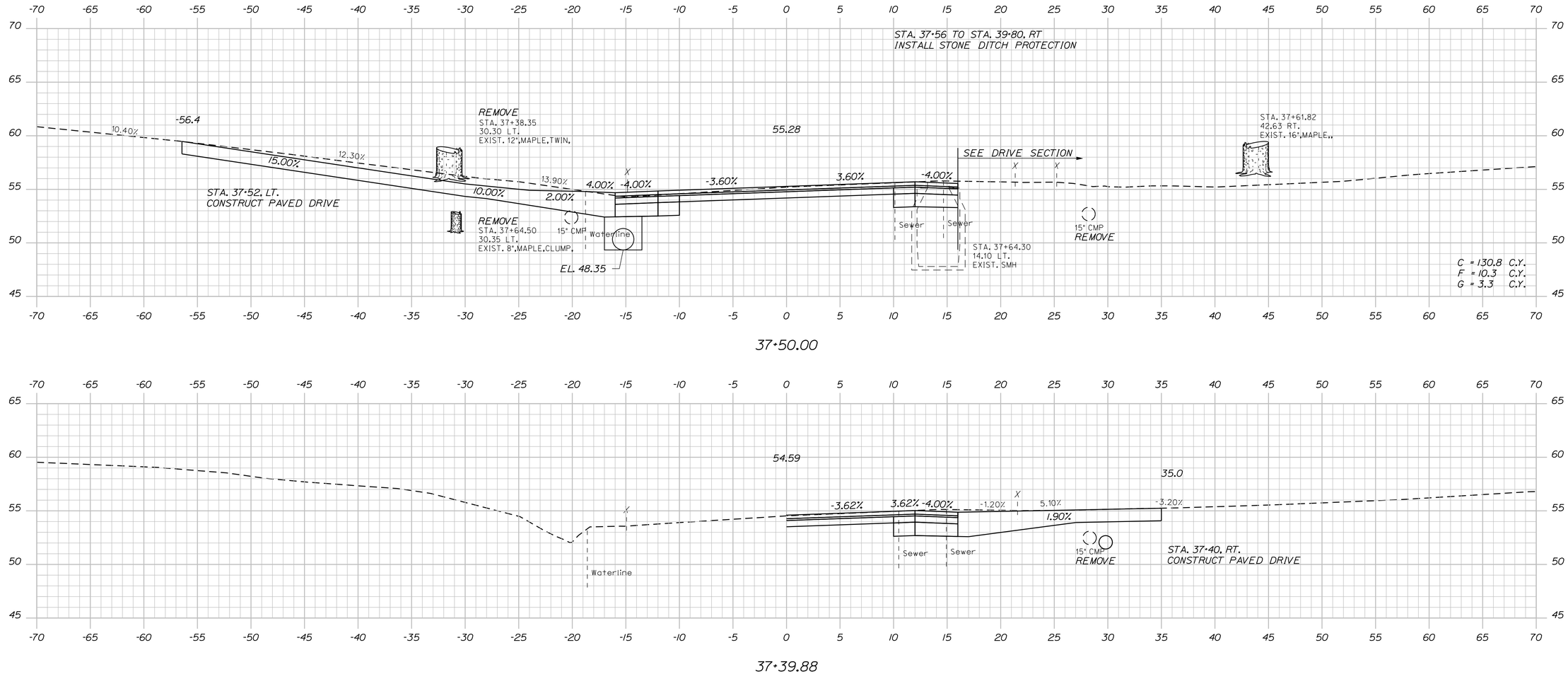
SHEET NUMBER

96

OF 213

T·Y·LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Username: Division: HIGHWAY Date:3/7/2019



Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

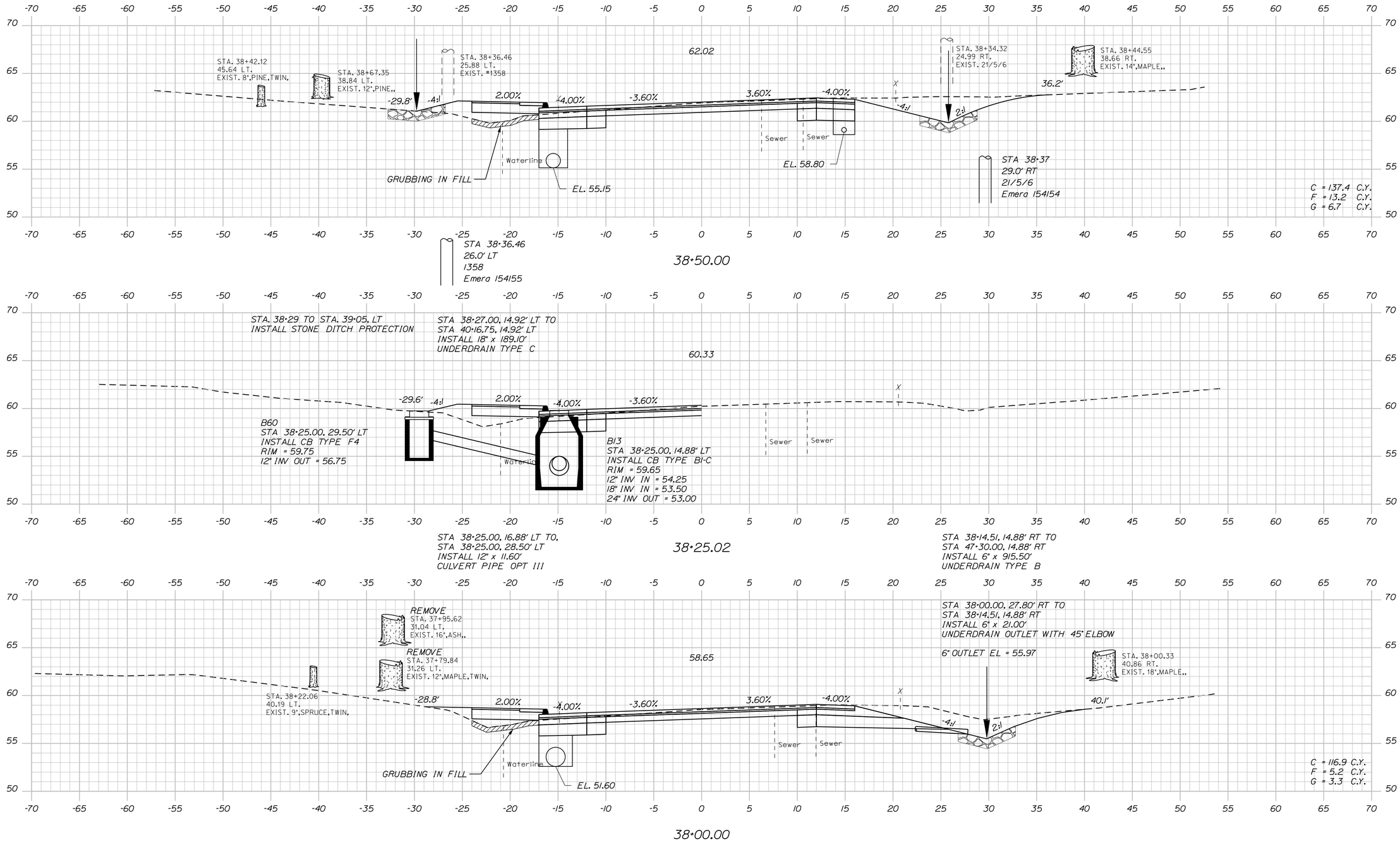
SHEET NUMBER

97

OF 213

TYLIN INTERNATIONAL

Sta. 37+39.88 to Sta. 37+50.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

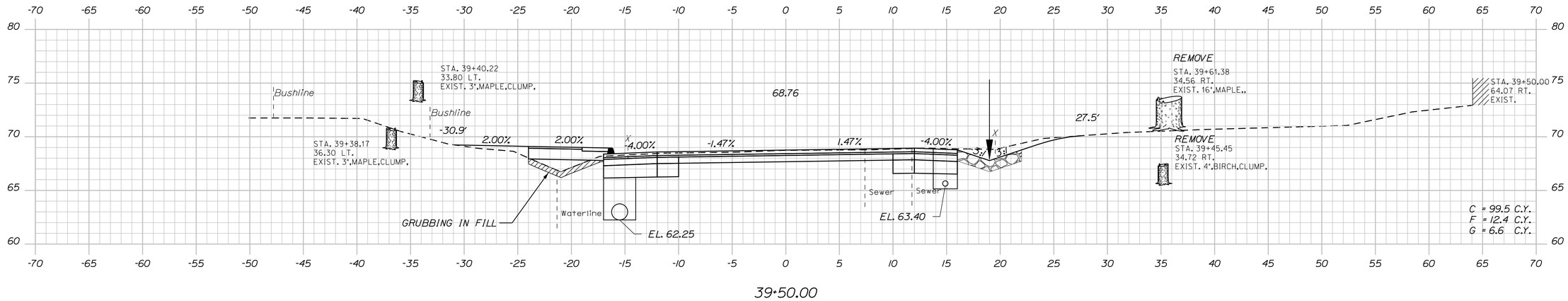
98

OF 213

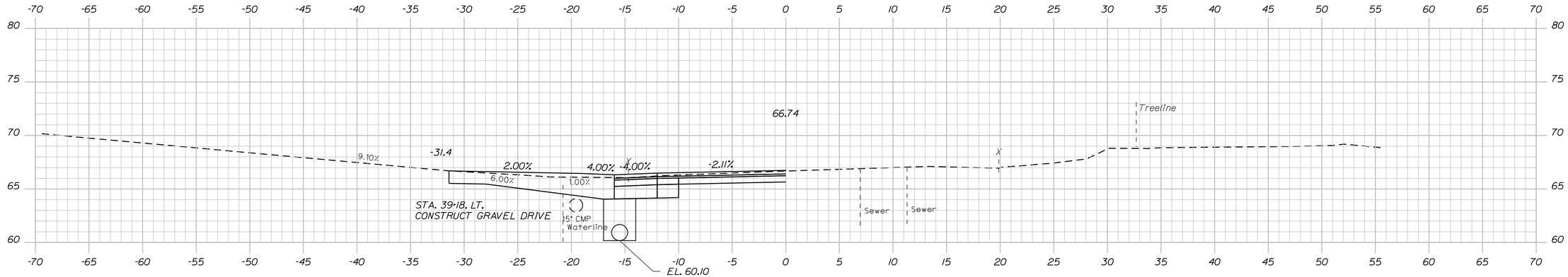
T.Y.LIN INTERNATIONAL

Sta. 38+00.00 to Sta. 38+50.00

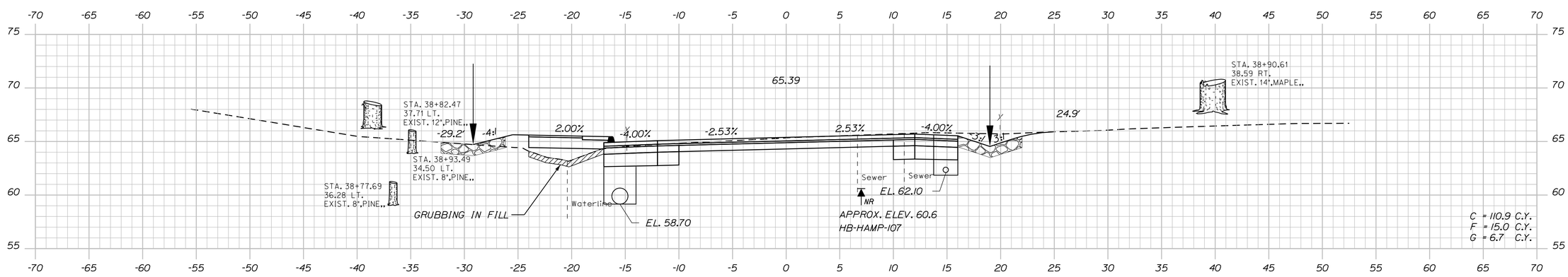
Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



39+50.00



39+20.00



39+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

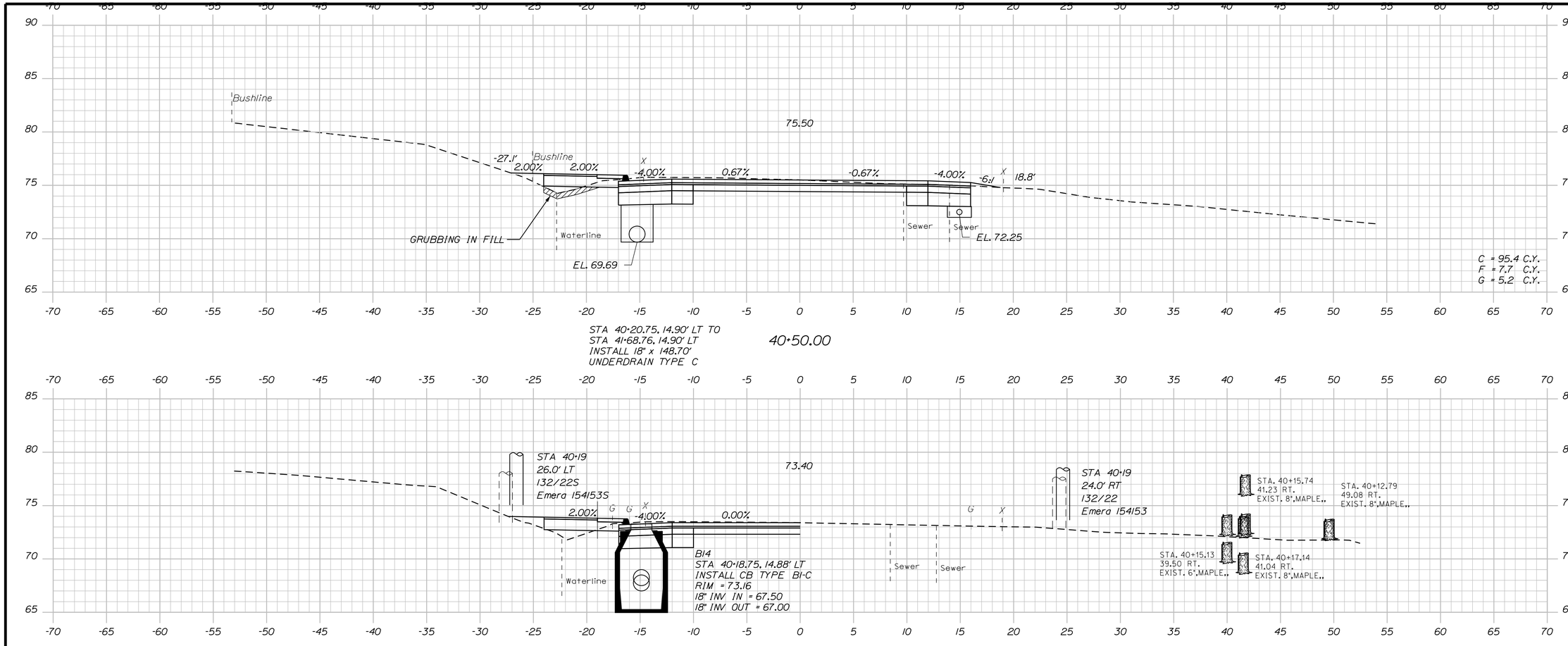
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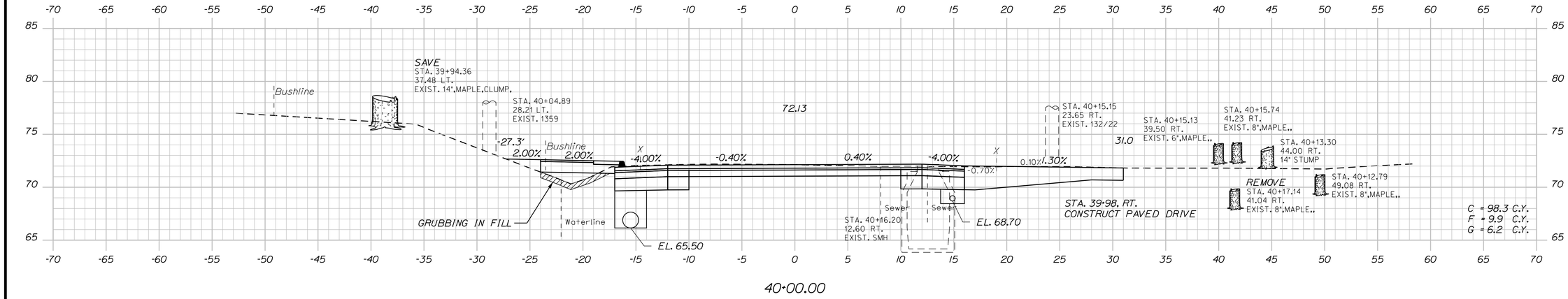
OF 213

T·Y·LIN INTERNATIONAL

Sta. 39+00.00 to Sta. 39+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2	JRH		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

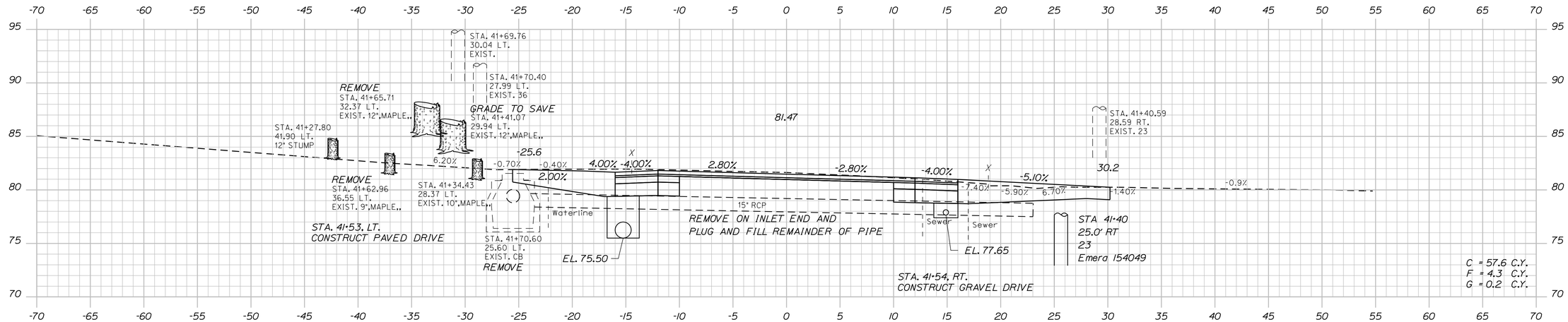
100

OF 213

T-Y LIN INTERNATIONAL

Sta. 40+00.00 to Sta. 40+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



Date:3/7/2019

Username:

Division: HIGHWAY

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

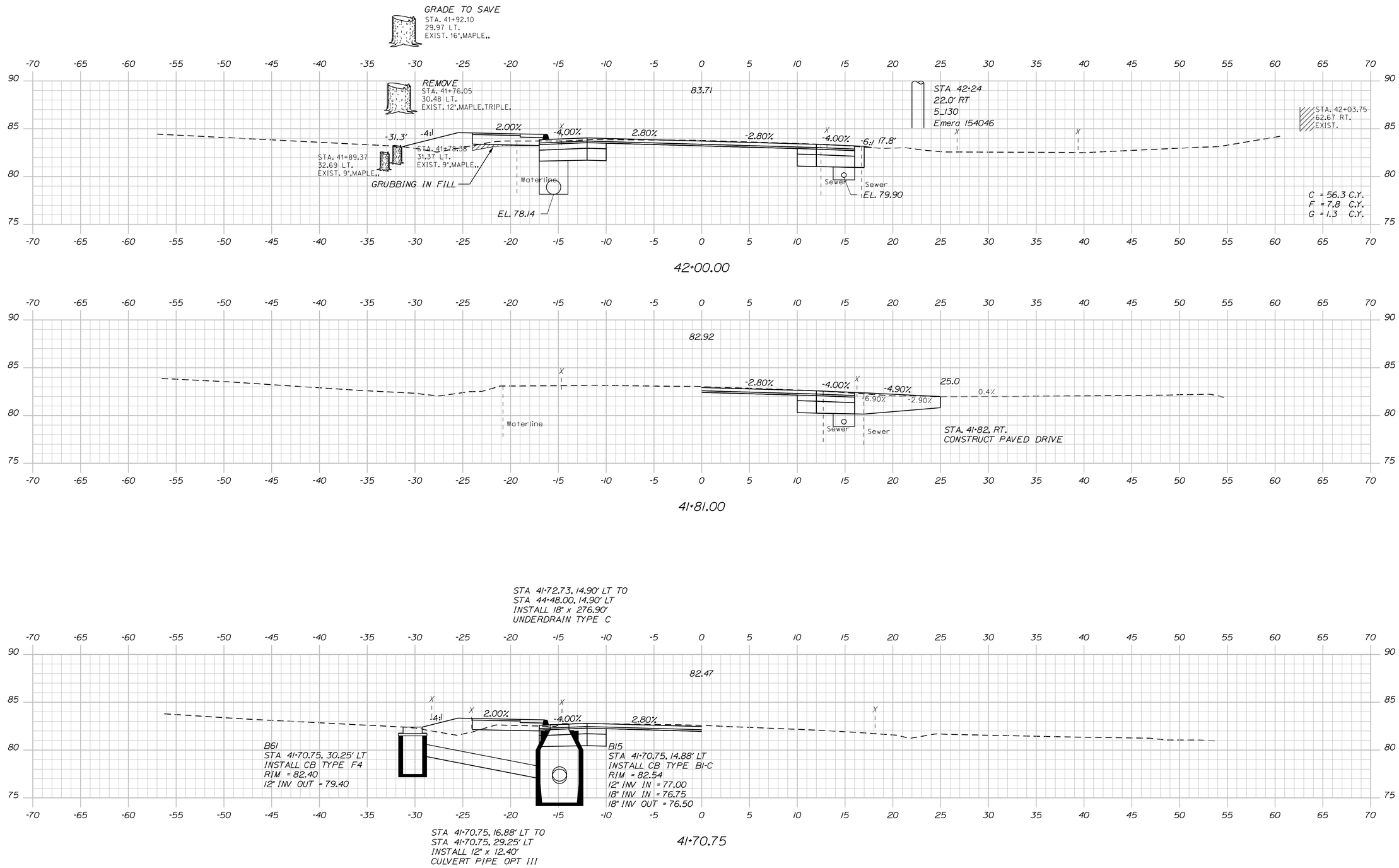
T·Y·LIN INTERNATIONAL

SHEET NUMBER

101

OF 213

Sta. 41+00.00 to Sta. 41+50.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

102

OF 213

T·Y·LIN INTERNATIONAL

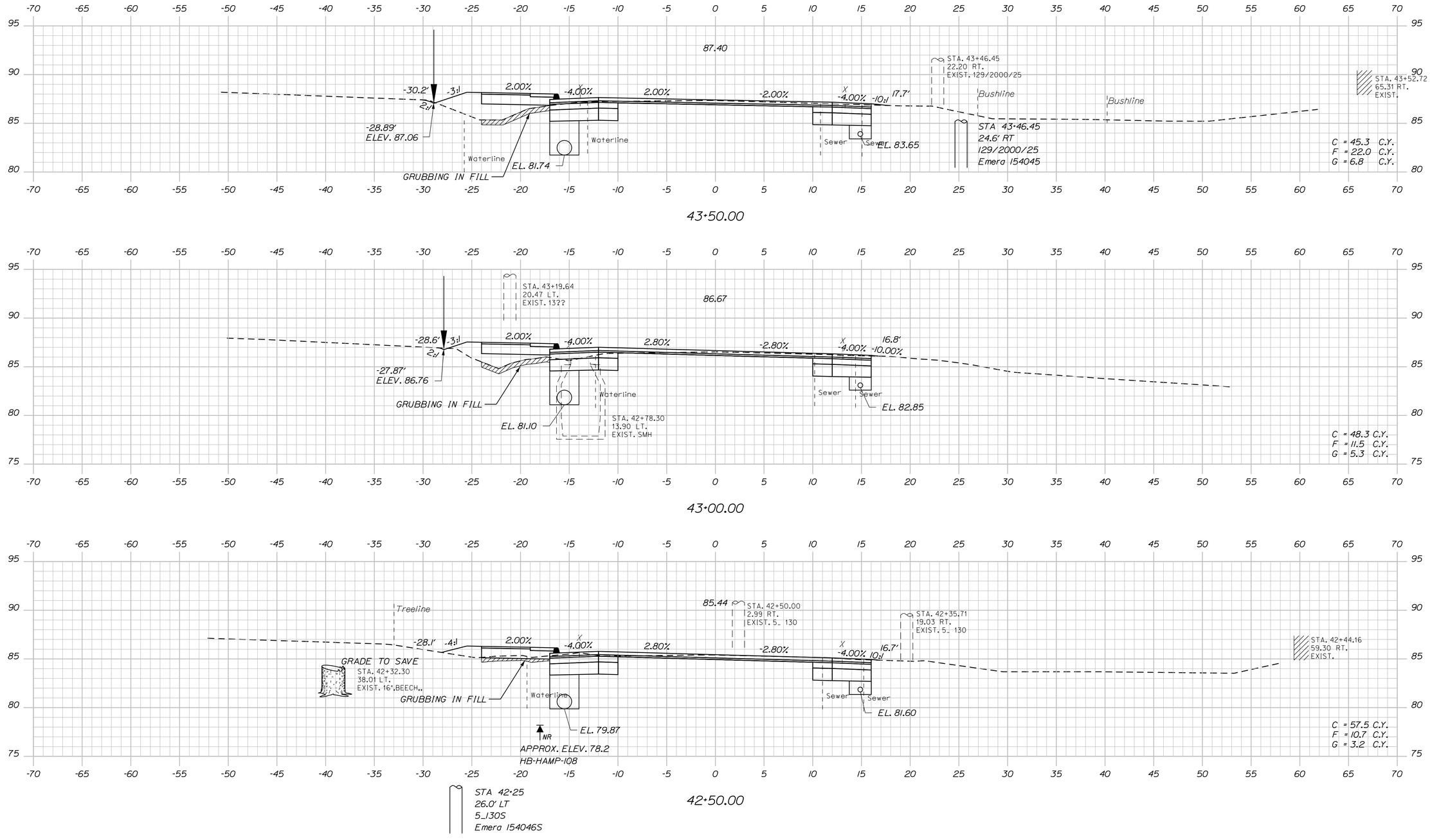
Sta. 41+58.11 to Sta. 42+00.00

Date:3/7/2019

Username:

Division: HIGHWAY

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

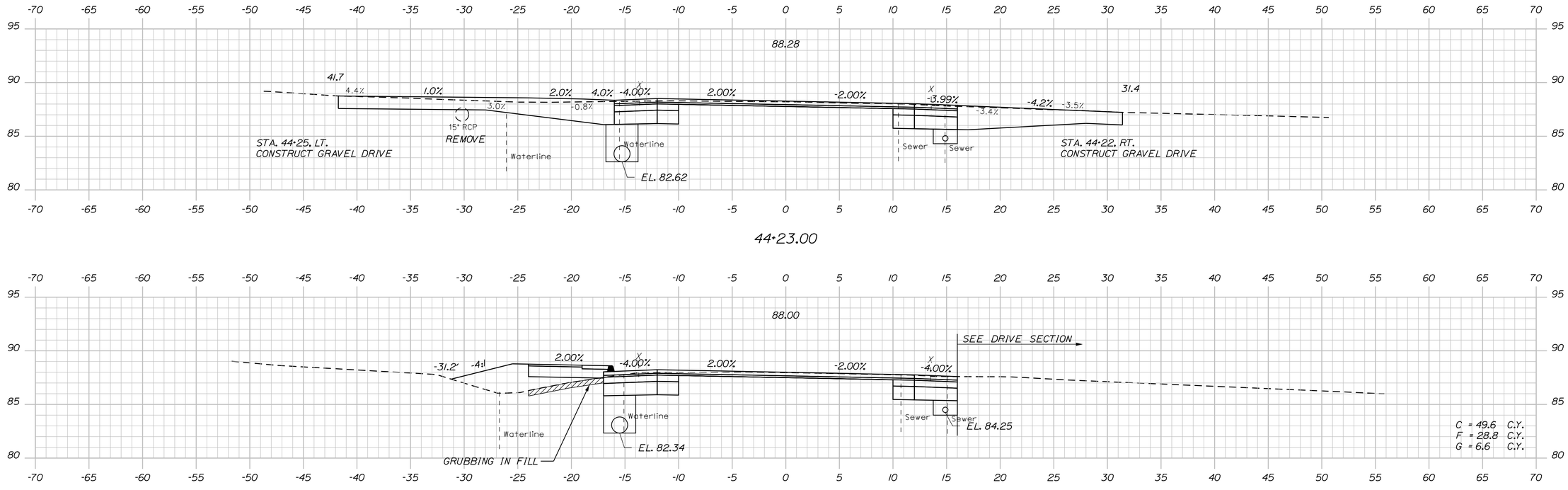
103

OF 213

T.Y.LIN INTERNATIONAL

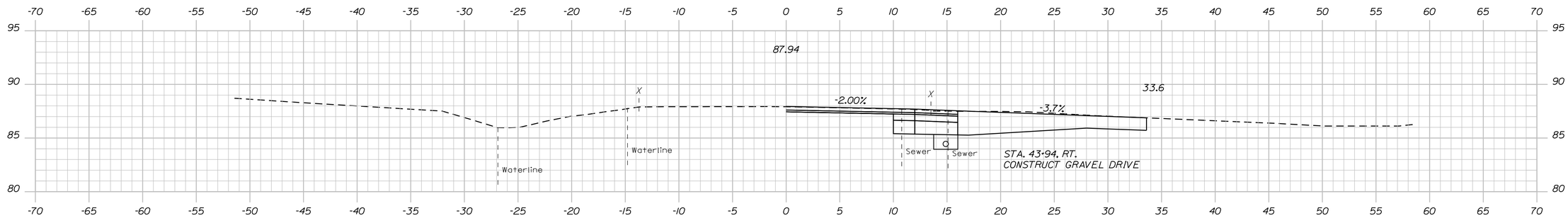
Sta. 42+50.00 to Sta. 43+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



44+23.00

44+00.00



43+95.00

Sta. 43+95.00 to Sta. 44+23.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

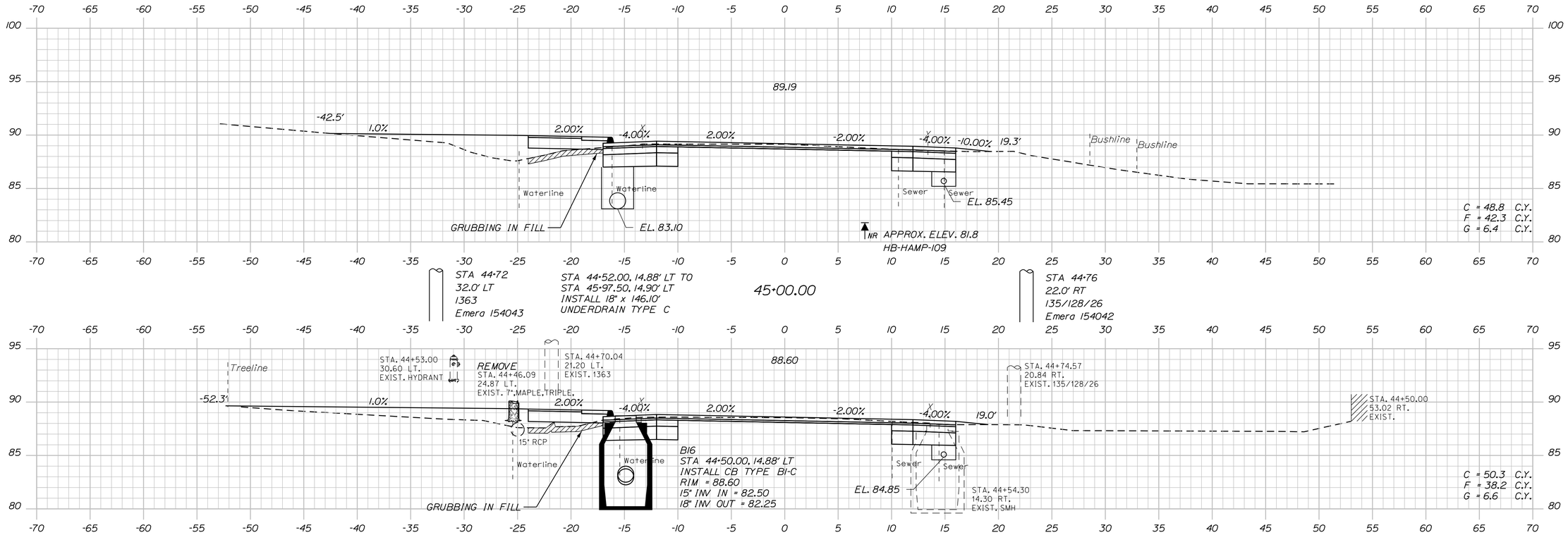
SHEET NUMBER

104

OF 213

T-Y-LIN INTERNATIONAL

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Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH		
CHECKED-REVIEWED	JRH		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY | DATE
TSK | 12/17
KSD | 12/17

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER
105
OF 213

TYLIN INTERNATIONAL

Sta. 44+43.00 to Sta. 45+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

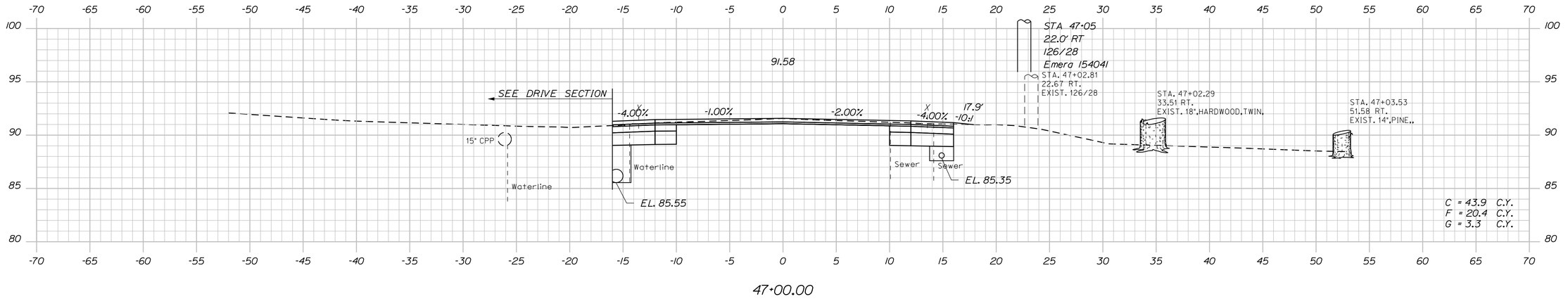
T-Y LIN INTERNATIONAL

SHEET NUMBER

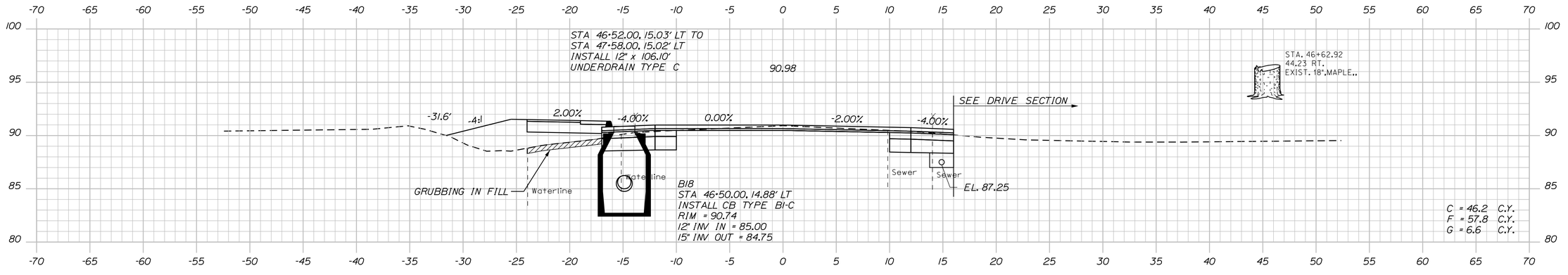
106

OF 213

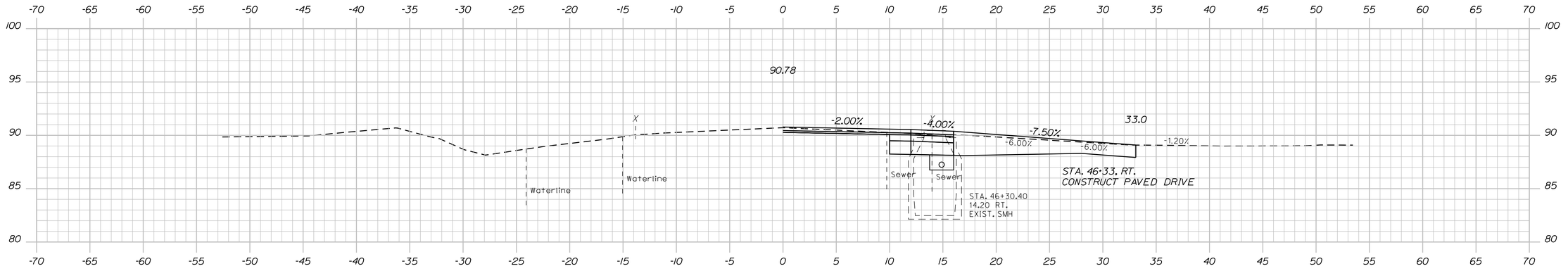
Sta. 45+43.00 to Sta. 46+00.00



47+00.00



46+50.00



46+33.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

P.E. NUMBER

DATE

SIGNATURE

	R. MOULTON	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

107

OF 213

TYLIN INTERNATIONAL

Sta. 46+33.00 to Sta. 47+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

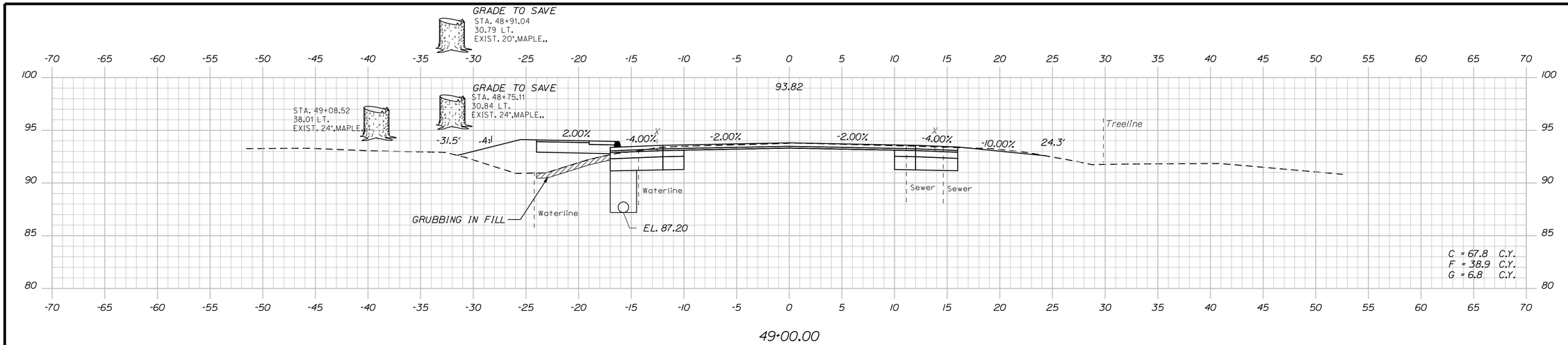
108

OF 213

T·Y·LIN INTERNATIONAL

Sta. 47+07.00 to Sta. 48+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

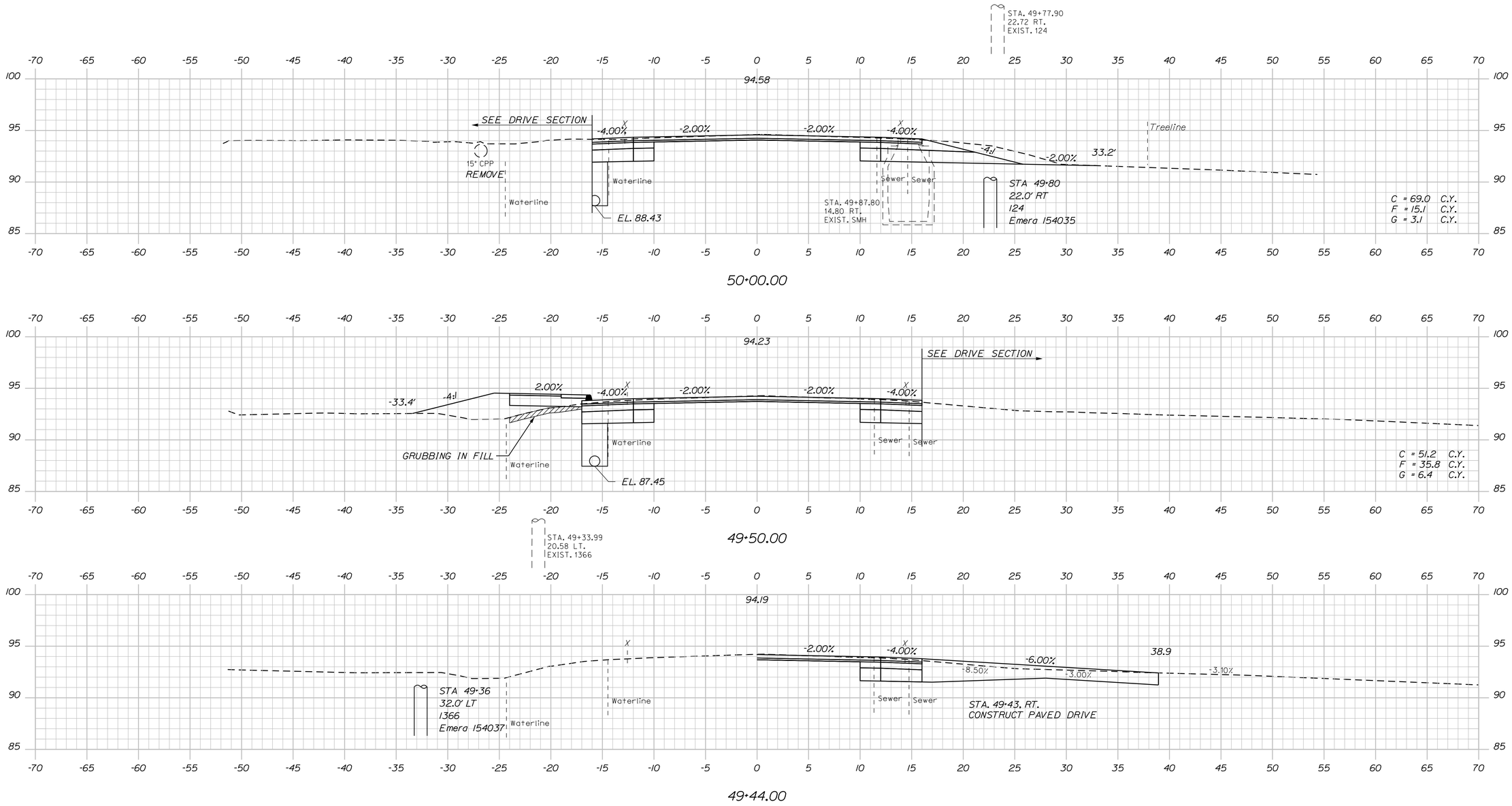
109

OF 213

T-Y LIN INTERNATIONAL

Sta. 48+32.00 to Sta. 49+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Username: Division: HIGHWAY Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

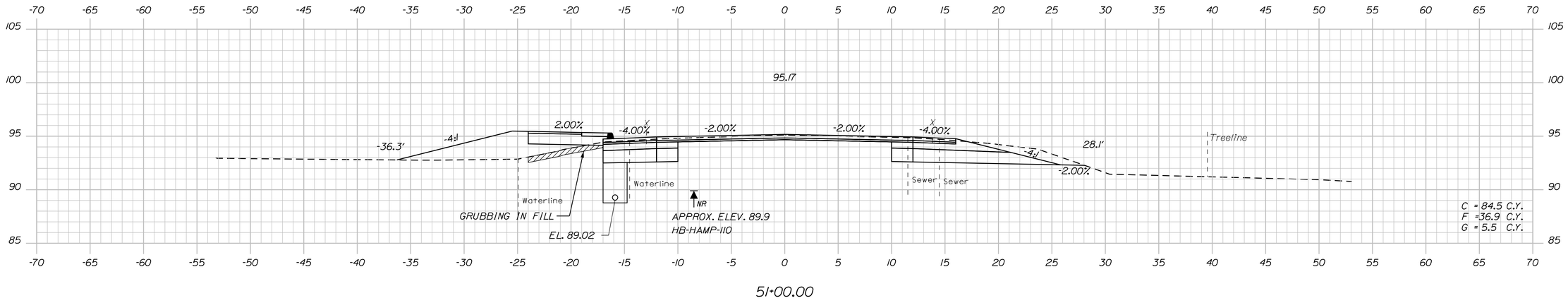
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SHEET NUMBER

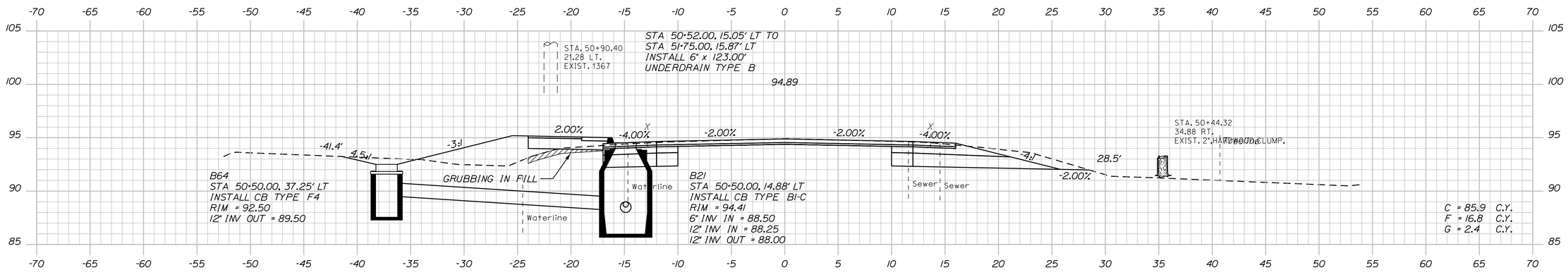
110

OF 213

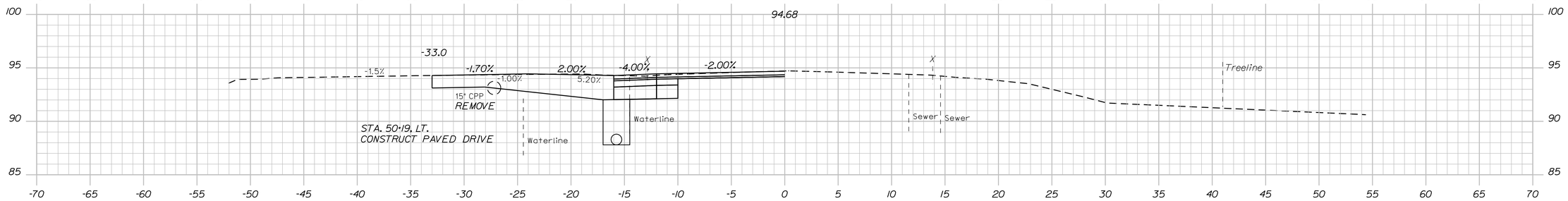
Sta. 49+44.00 to Sta. 50+00.00



51+00.00



50+50.00



50+17.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

111

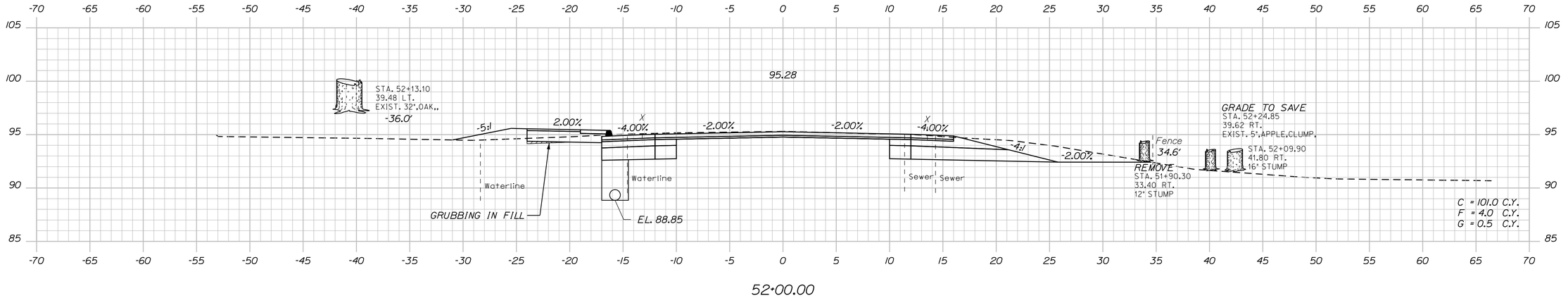
OF 213

T·Y·LIN INTERNATIONAL

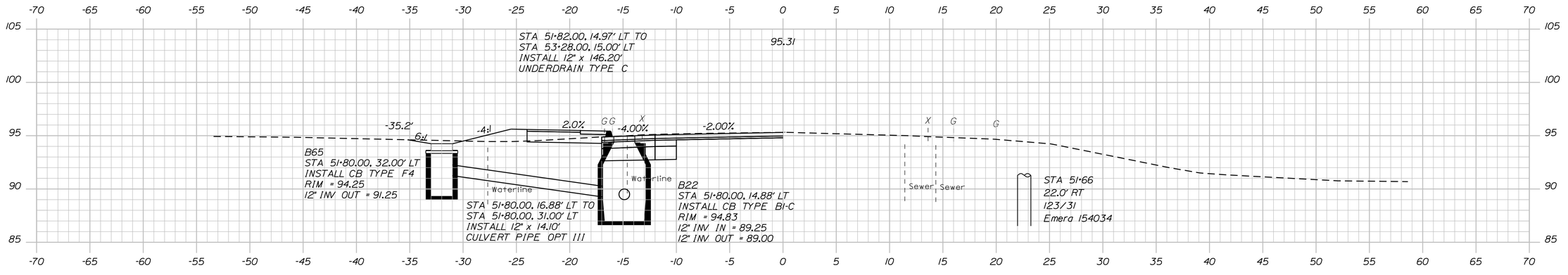
Sta. 50+17.00 to Sta. 51+00.00

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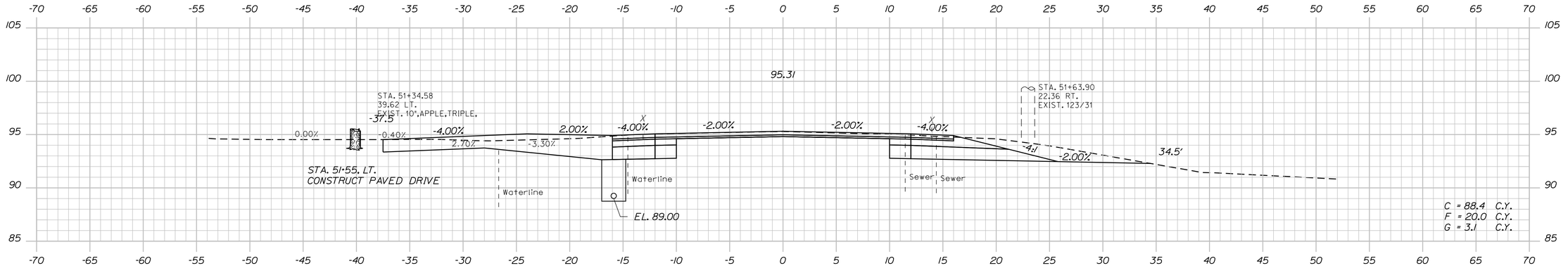
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52+00.00



51+80.00



51+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

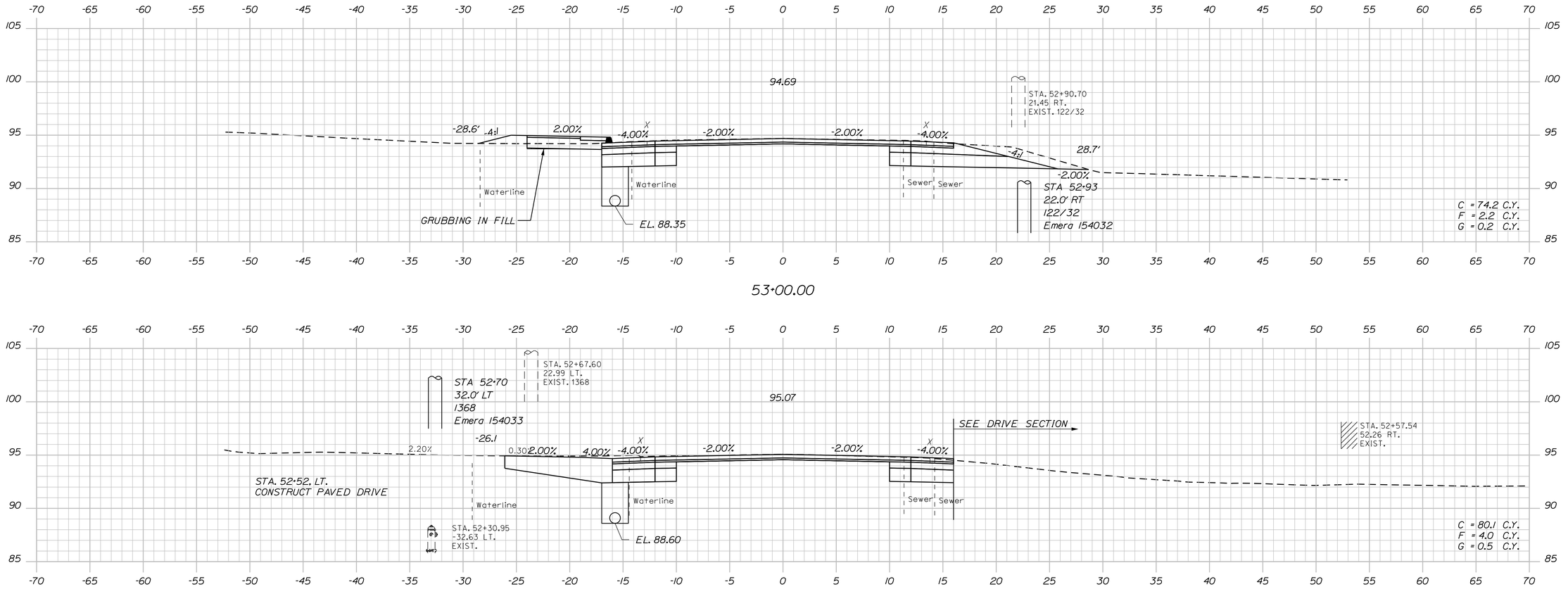
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112

OF 213

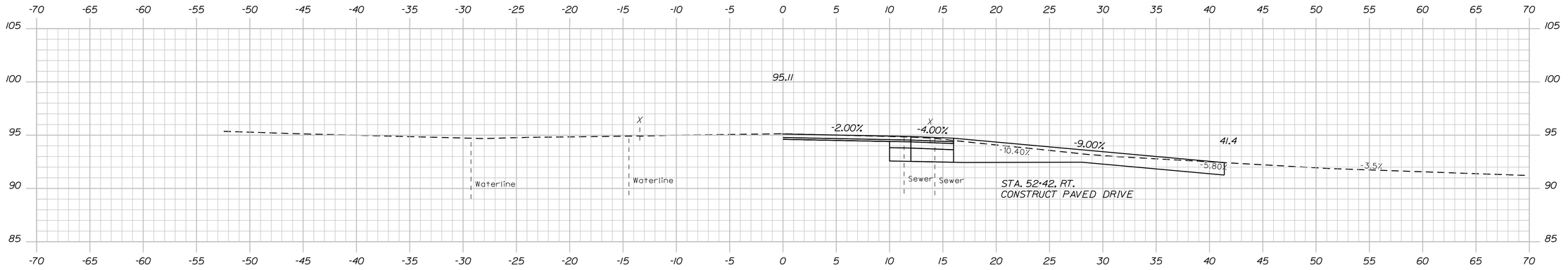
T-Y LIN INTERNATIONAL

Sta. 51+50.00 to Sta. 52+00.00



53+00.00

52+50.00



52+42.00

Sta. 52+42.00 to Sta. 53+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY | DATE

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

TYLININTERNATIONAL

SHEET NUMBER

113

OF 213

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Sta. 53+30.00 to Sta. 53+67.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

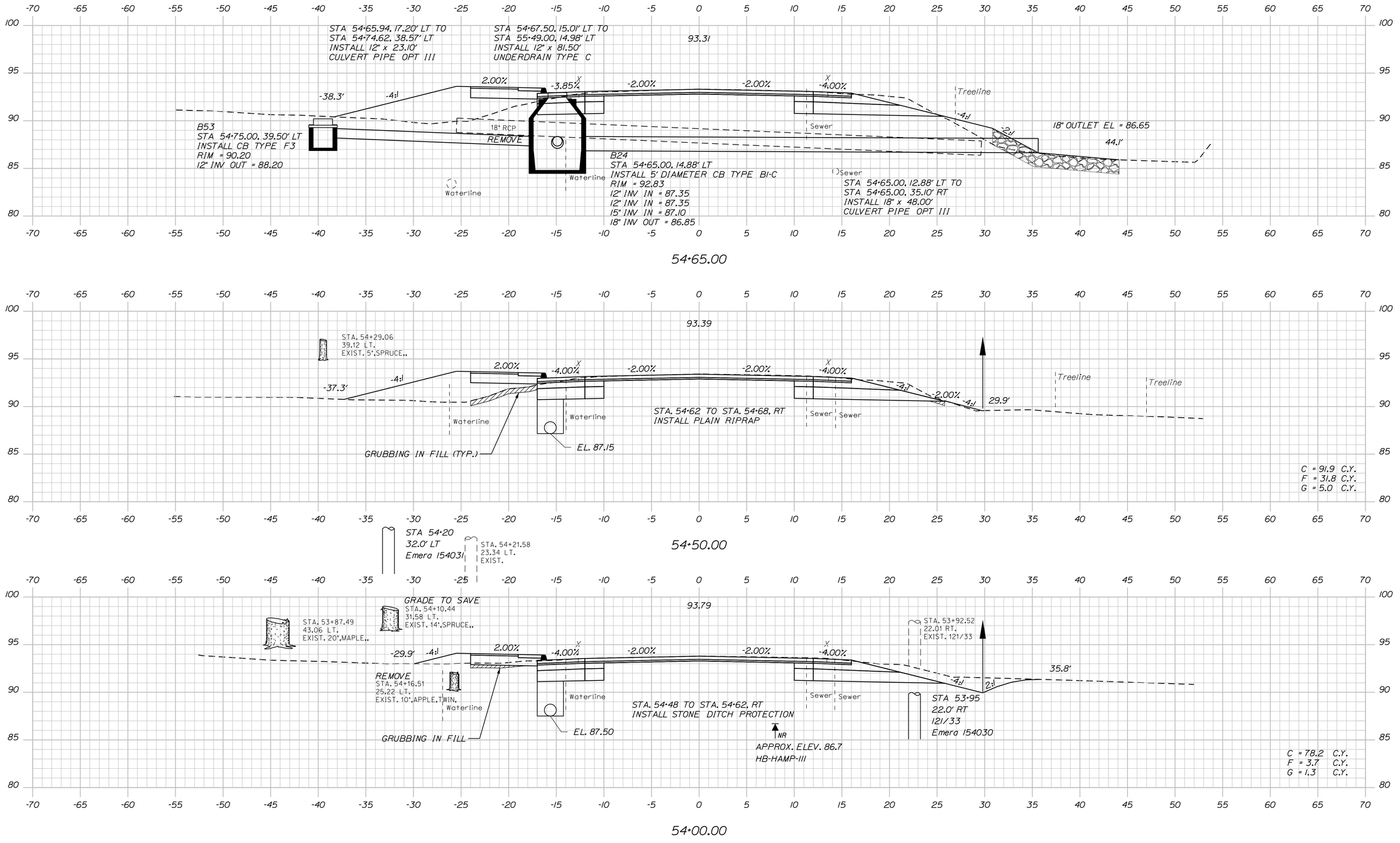
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114

OF 213

T-Y LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

115

OF 213

T-Y LIN INTERNATIONAL

Sta. 54+00.00 to Sta. 54+65.00

Sta. 55+00.00 to Sta. 56+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

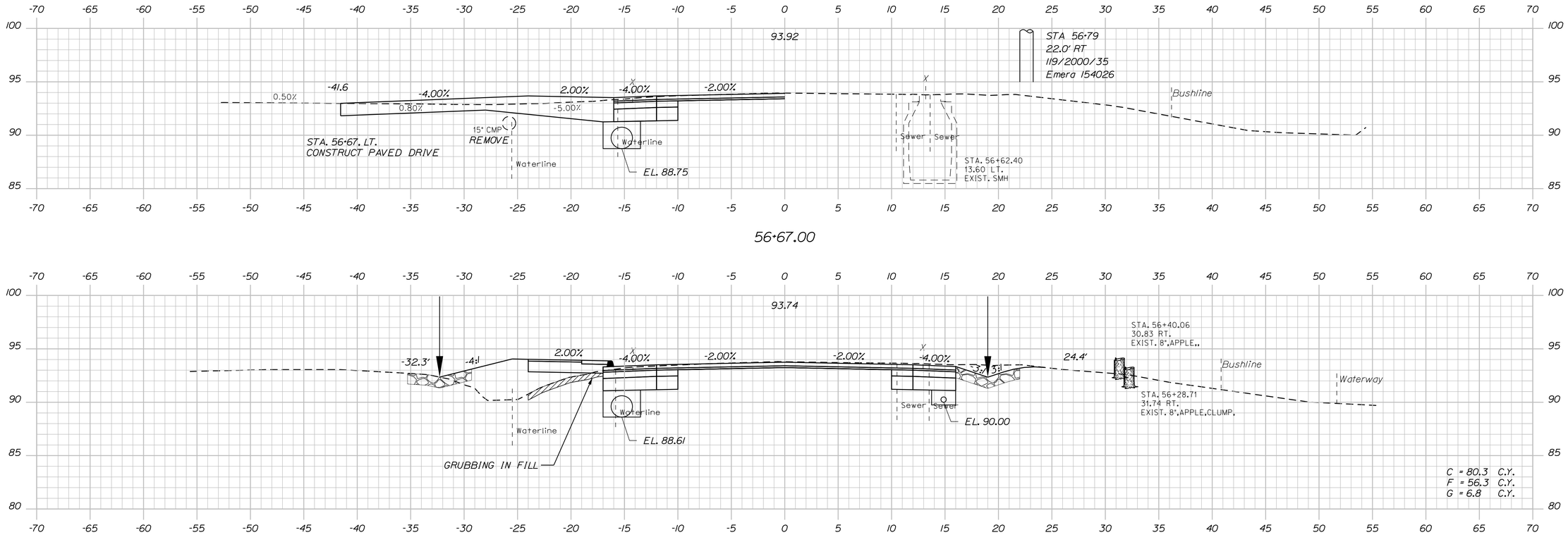
T-Y LIN INTERNATIONAL

SHEET NUMBER

116

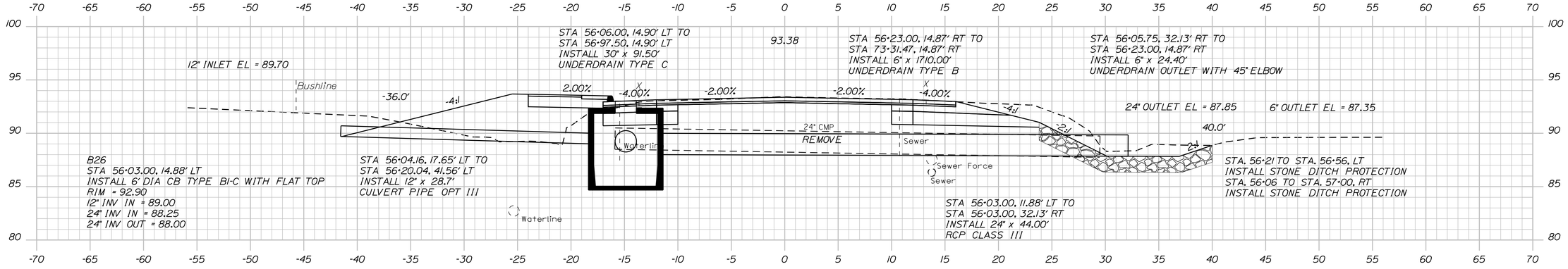
OF 213

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



56+67.00

56+50.00



56+03.11

Sta. 56+03.11 to Sta. 56+67.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

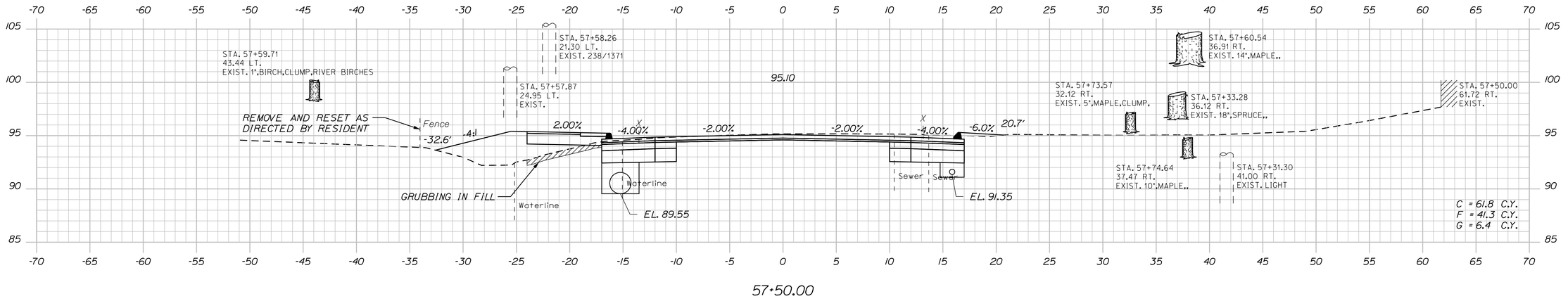
T·Y LIN INTERNATIONAL

SHEET NUMBER

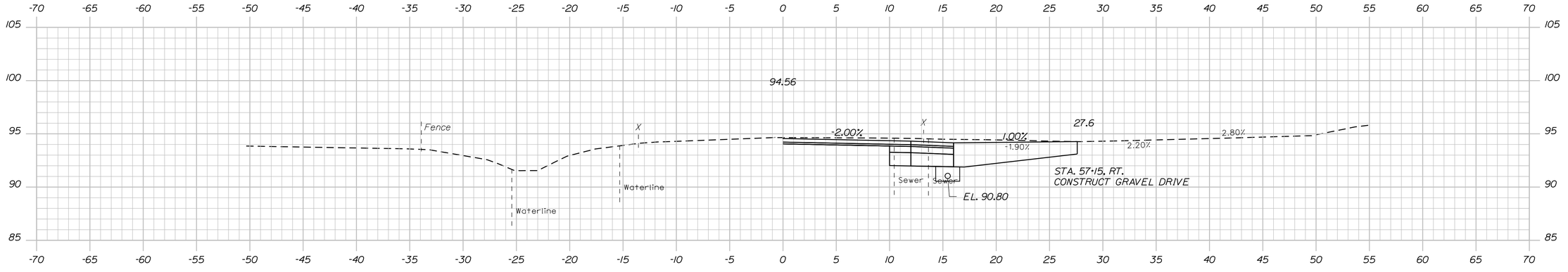
117

OF 213

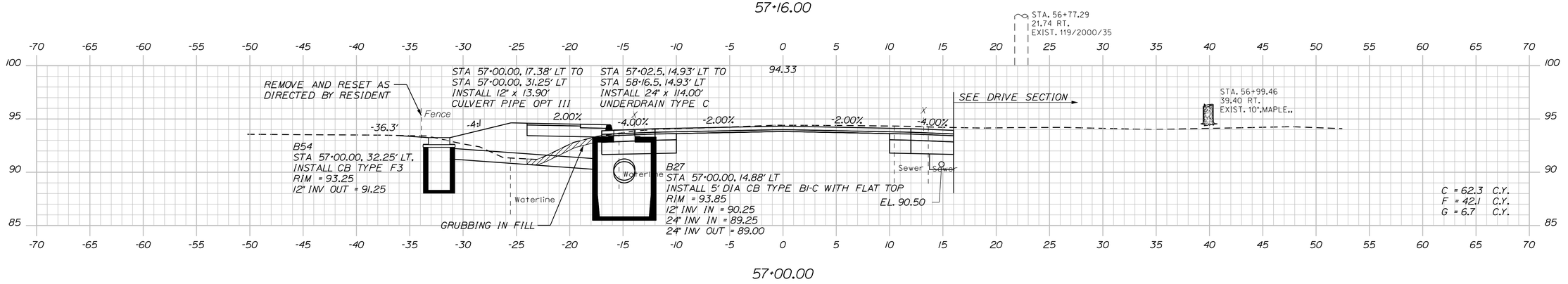
Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



57+50.00



57+16.00



57+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2	JRH		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T.Y.LIN INTERNATIONAL

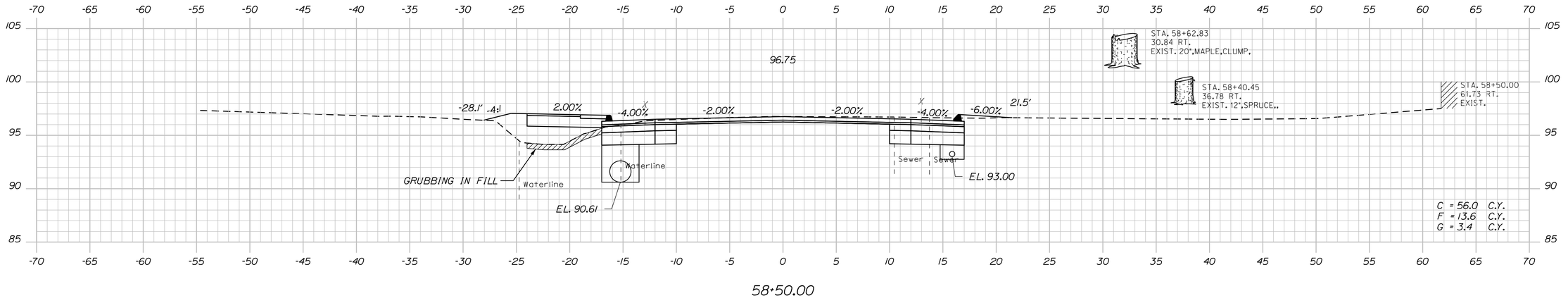
SHEET NUMBER

118

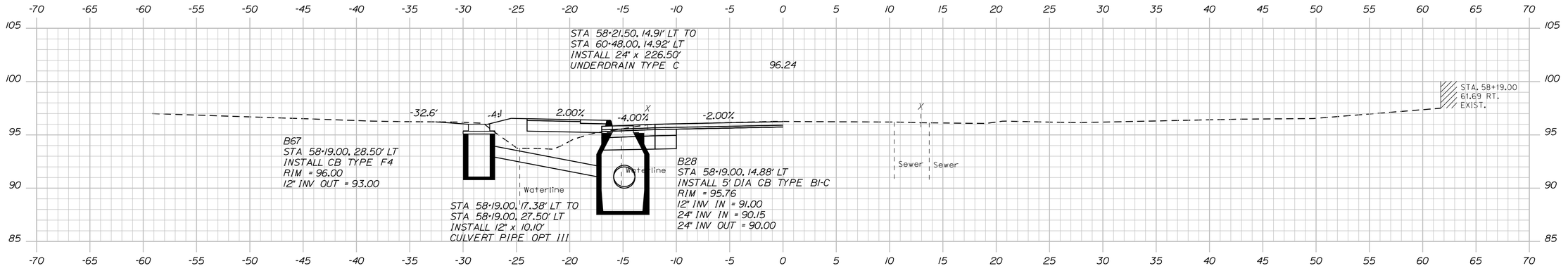
OF 213

Sta. 57+00.00 to Sta. 57+50.00

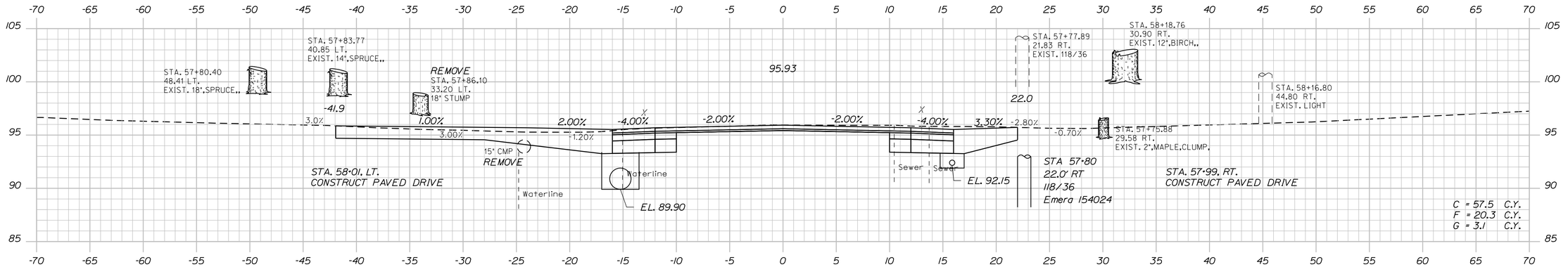
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58+50.00



58+19.00



58+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2	JRH	KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

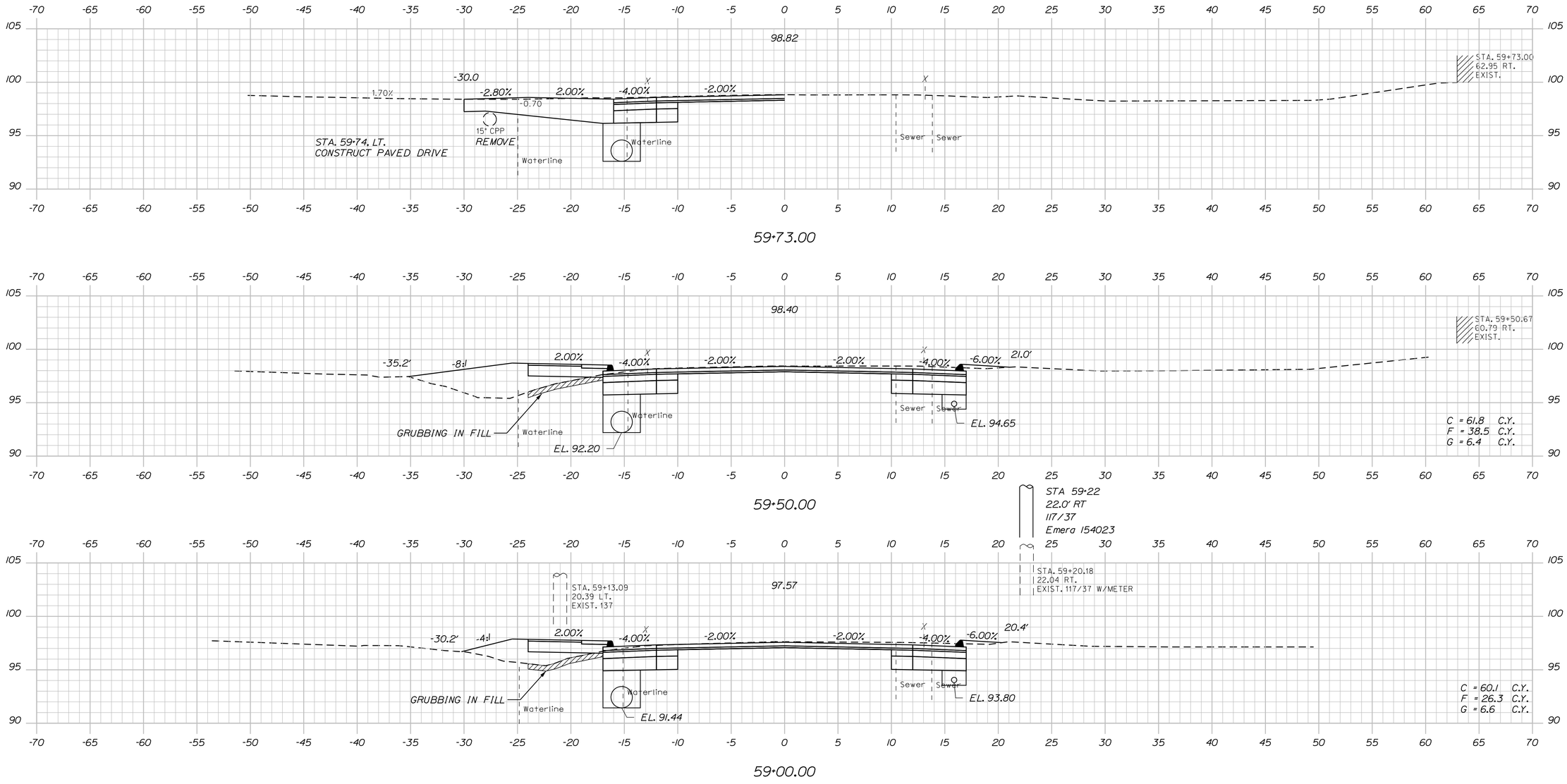
119

OF 213

TYLIN INTERNATIONAL

Sta. 58+00.00 to Sta. 58+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

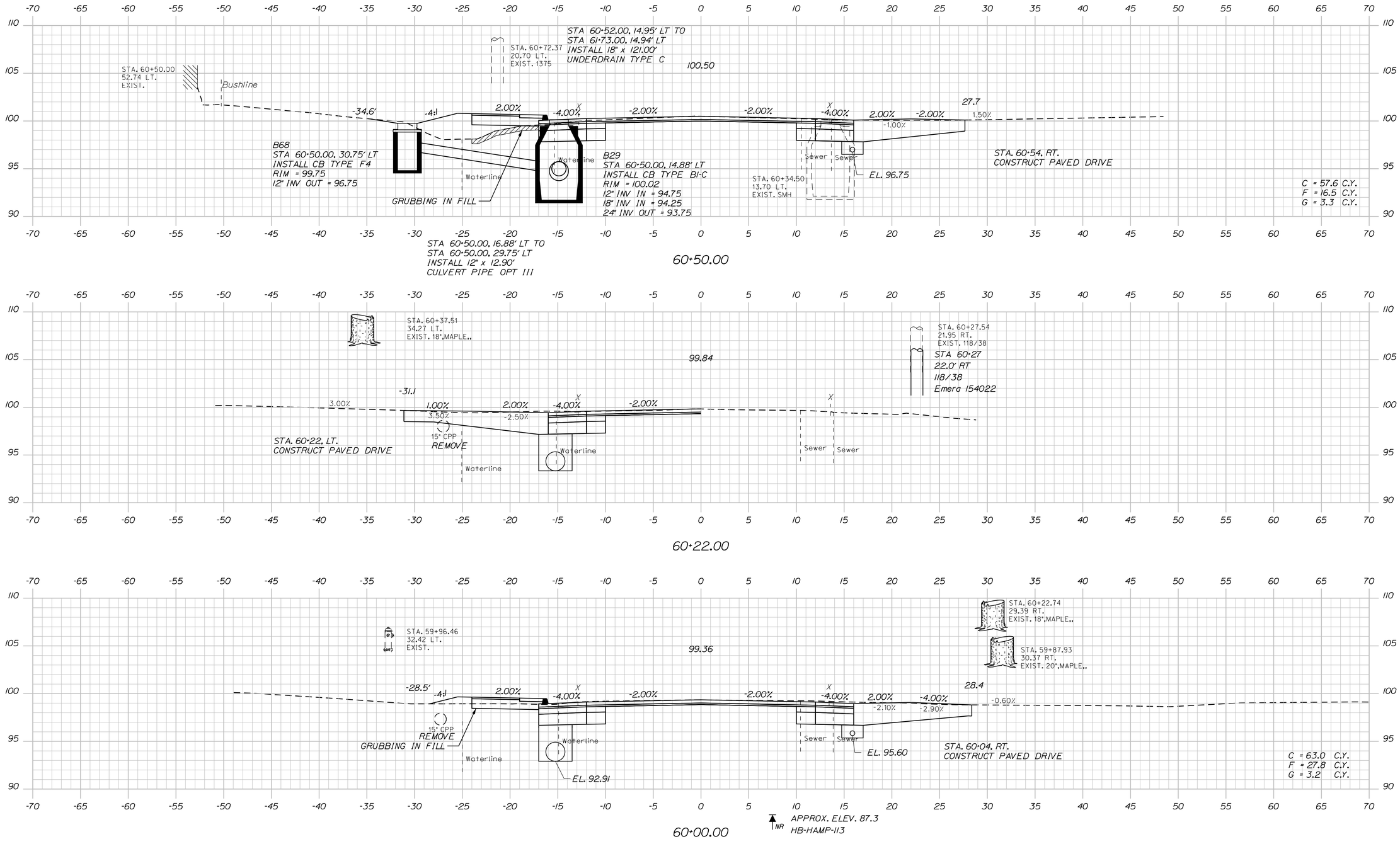
120

OF 213

T·Y·LIN INTERNATIONAL

Sta. 59+00.00 to Sta. 59+73.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Username: Date:3/7/2019

Division: HIGHWAY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T.Y.LIN INTERNATIONAL

SHEET NUMBER

121

OF 213

Sta. 60+00.00 to Sta. 60+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

122

OF 213

T-Y LIN INTERNATIONAL

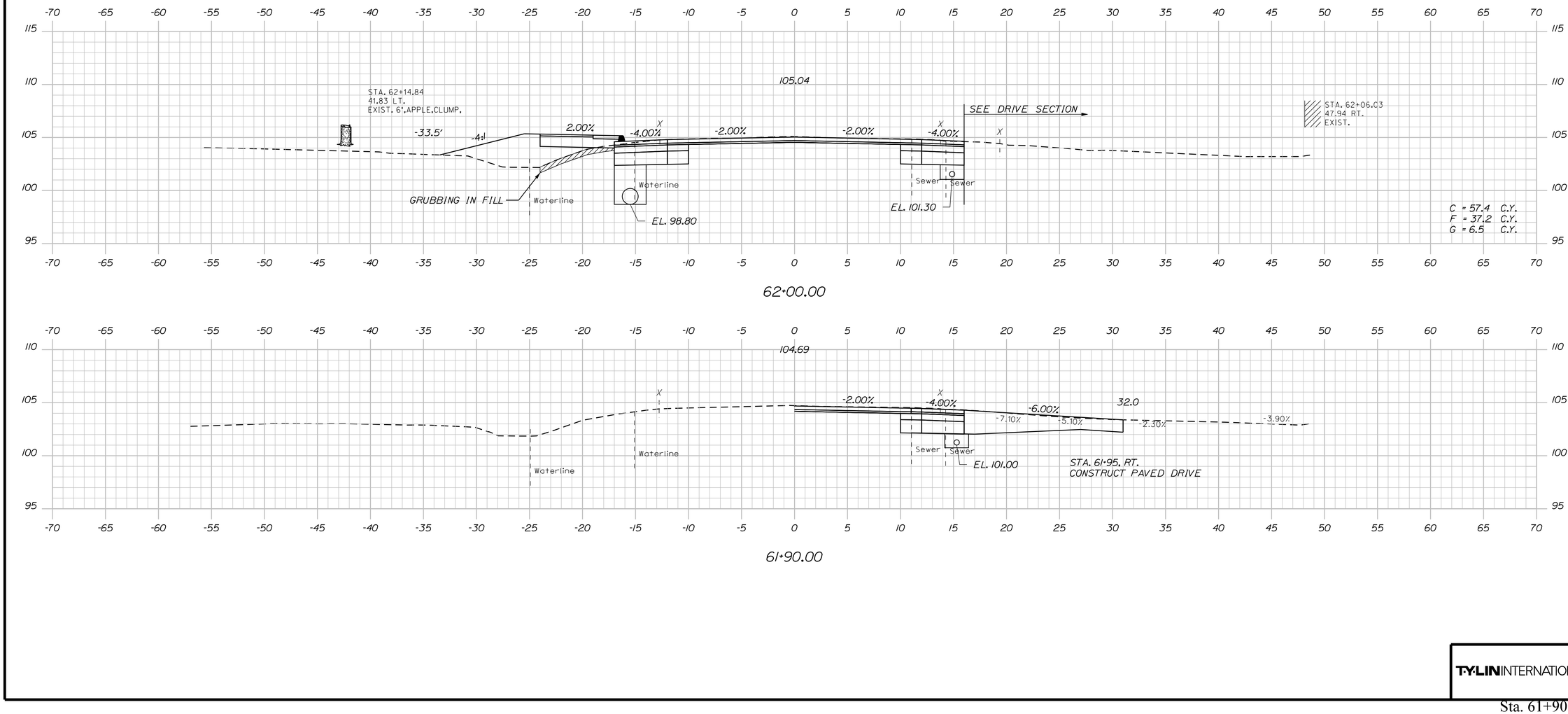
Sta. 61+00.00 to Sta. 61+75.00

Date:3/7/2019

Username:

Division: HIGHWAY

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
DESIGNED-DETAILED	TSK	12/17
CHECKED-REVIEWED	KSD	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER: R. MOULTON

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

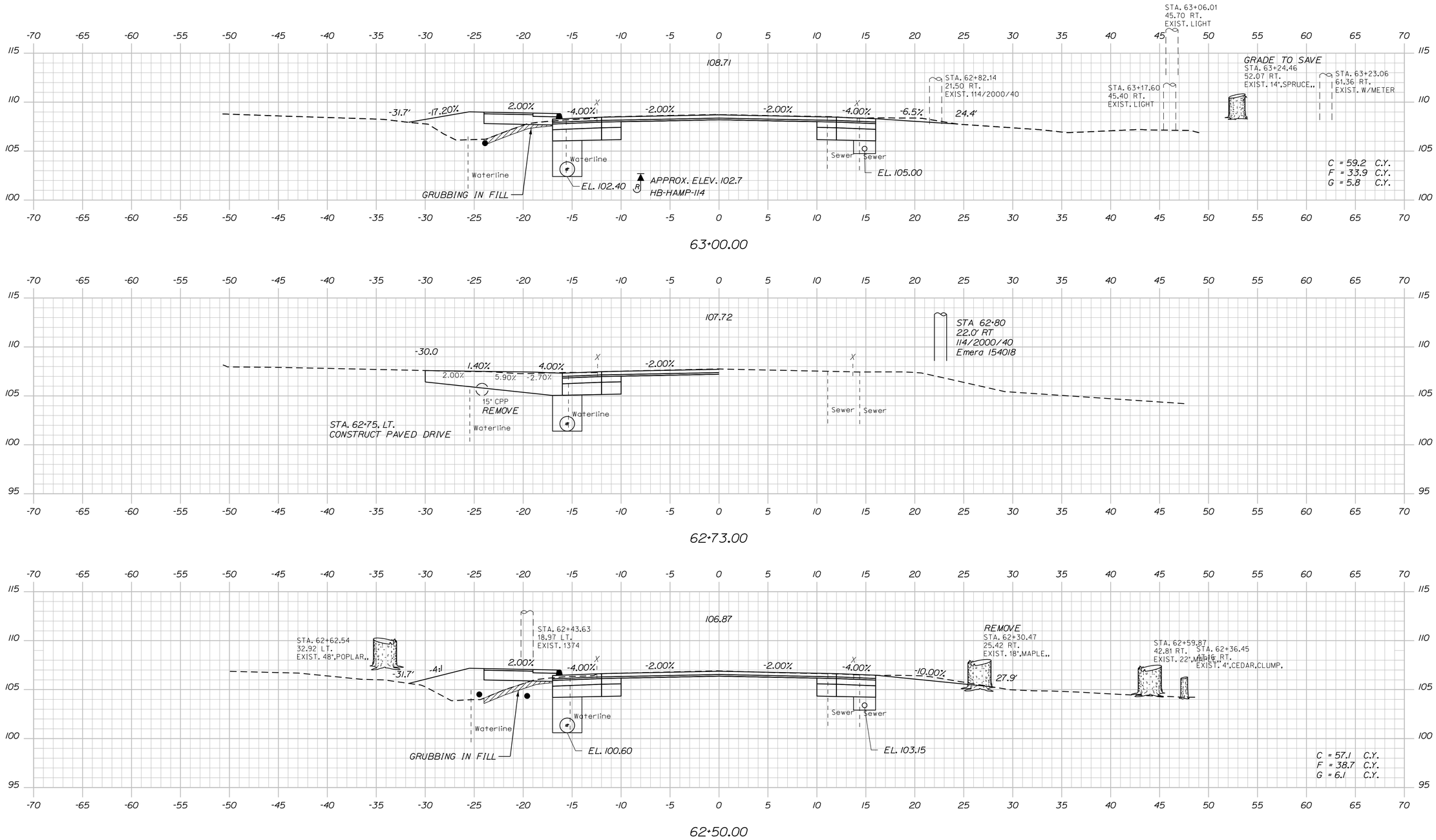
CROSS SECTIONS

SHEET NUMBER
123
OF 213

T·Y·LIN INTERNATIONAL

Sta. 61+90.00 to Sta. 62+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

124

OF 213

T-Y LIN INTERNATIONAL

Sta. 62+50.00 to Sta. 63+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2		KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

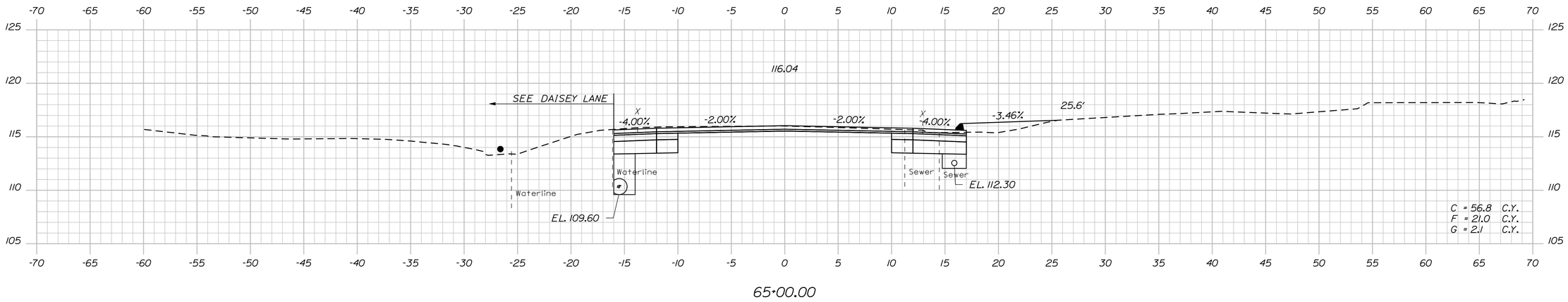
125

OF 213

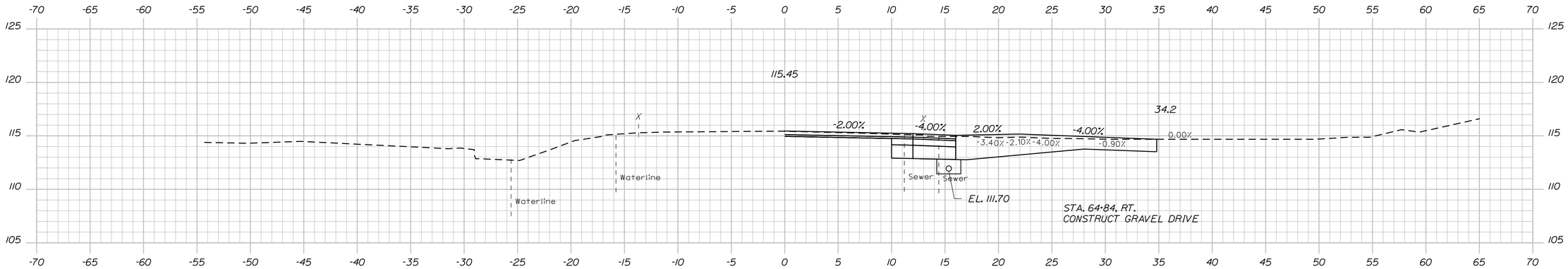
T.Y.LIN INTERNATIONAL

Sta. 63+50.00 to Sta. 64+32.00

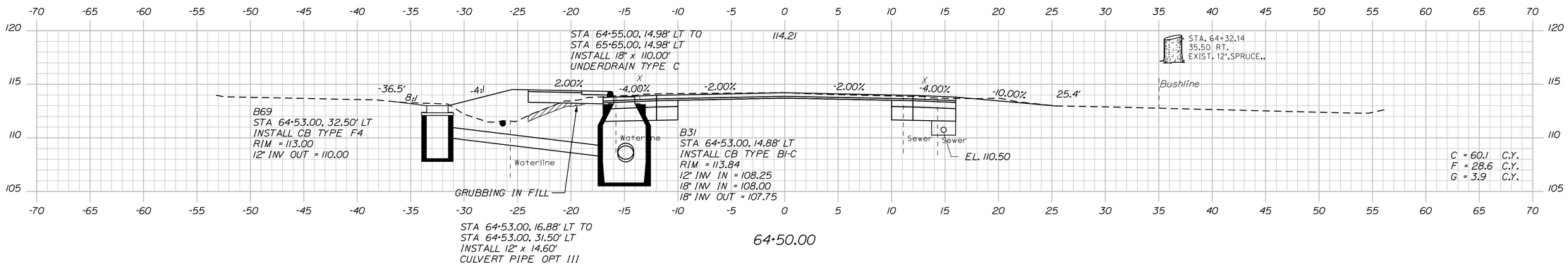
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65+00.00



64+84.00



64+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

126

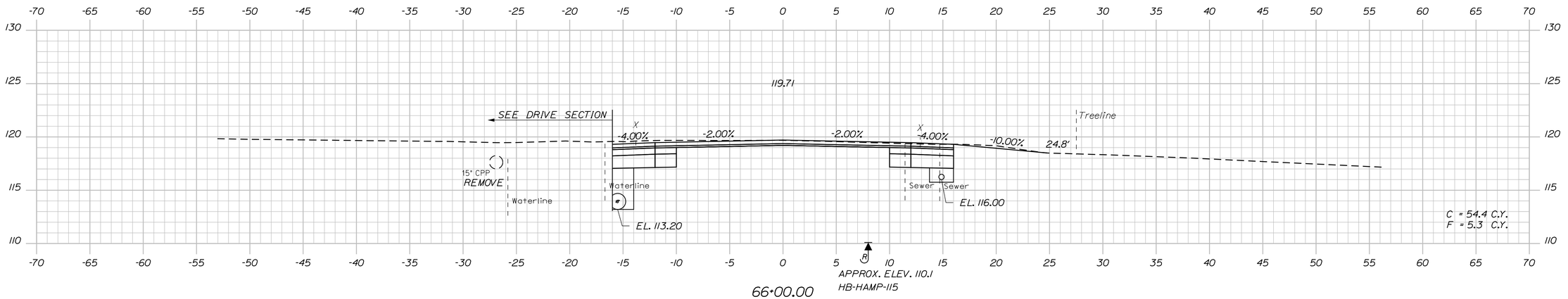
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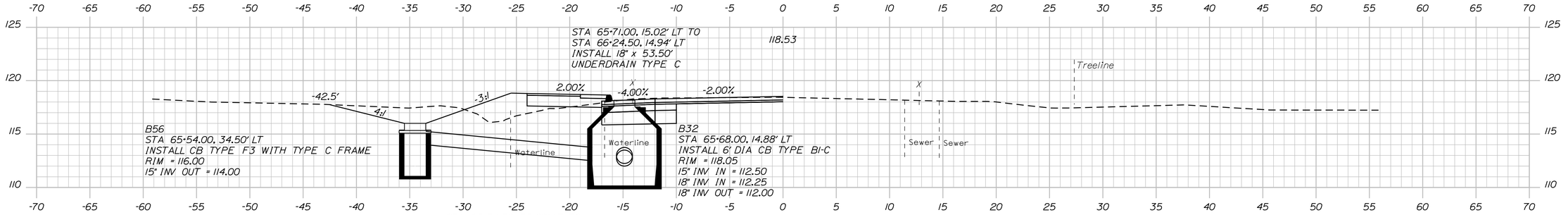
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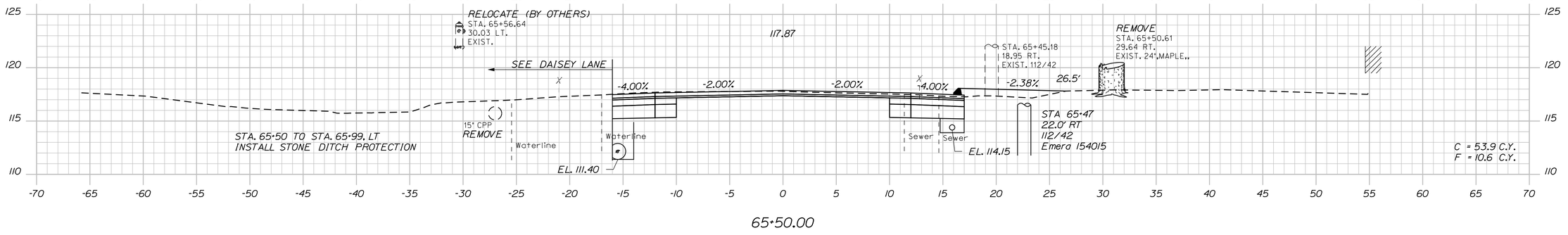
Sta. 64+50.00 to Sta. 65+00.00

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Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Username: Division: HIGHWAY Date:3/7/2019







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

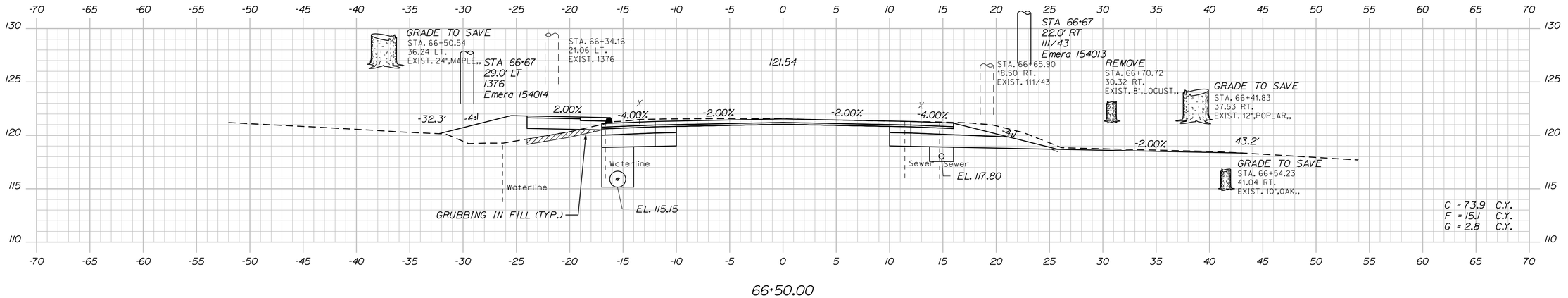
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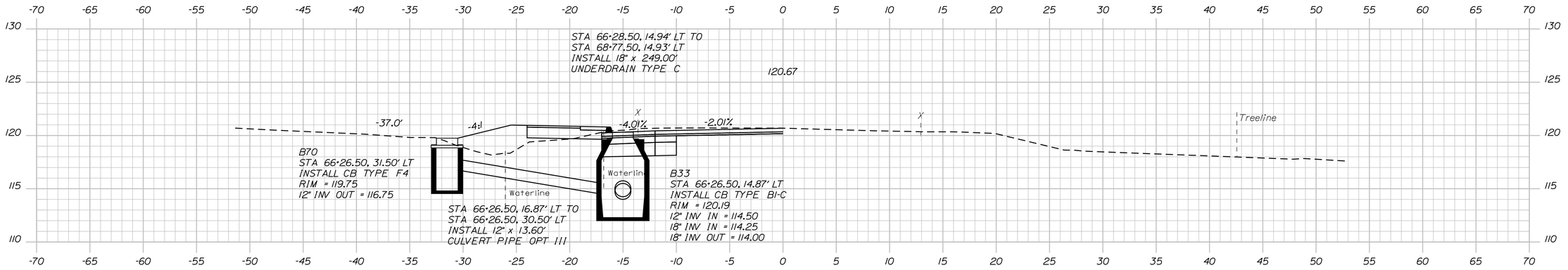
127

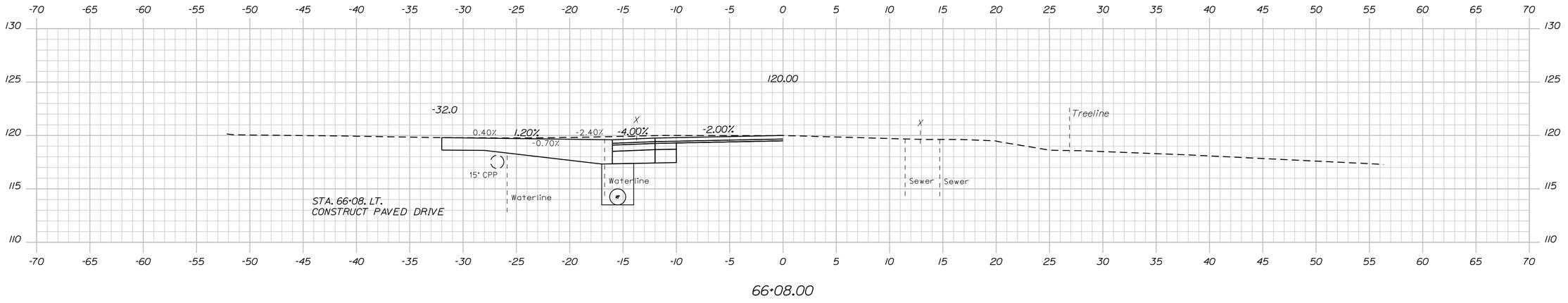
OF 213

T·Y·LIN INTERNATIONAL

Sta. 65+50.00 to Sta. 66+00.00







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	TSK
CHECKED-REVIEWED	JRH		KSD
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1		DATE	12/17
REVISIONS 2			12/17
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

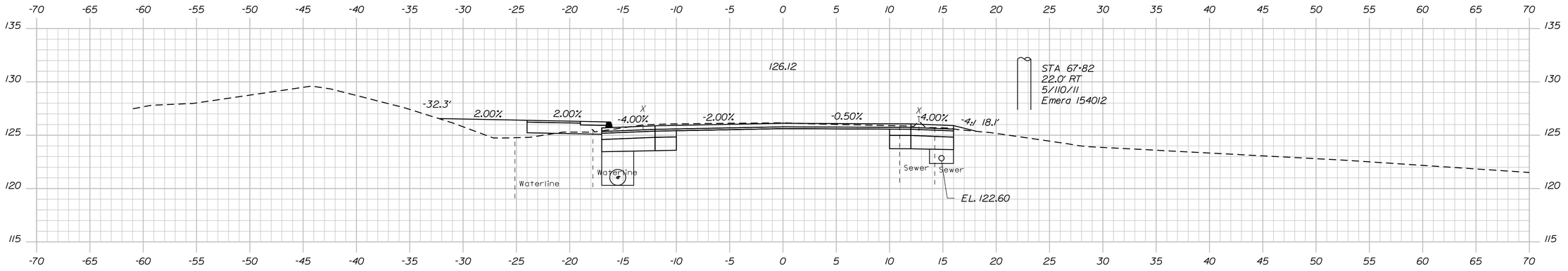
CROSS SECTIONS

SHEET NUMBER
128
OF 213

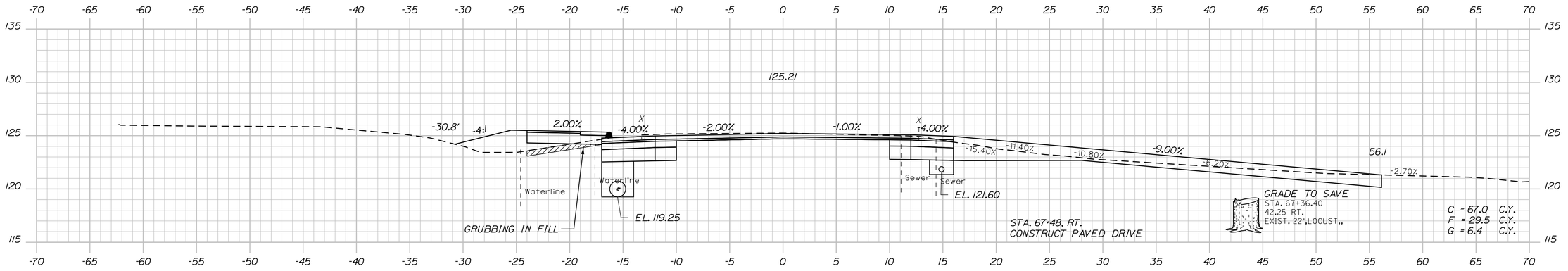
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Date:3/7/2019
Username:
Division: HIGHWAY
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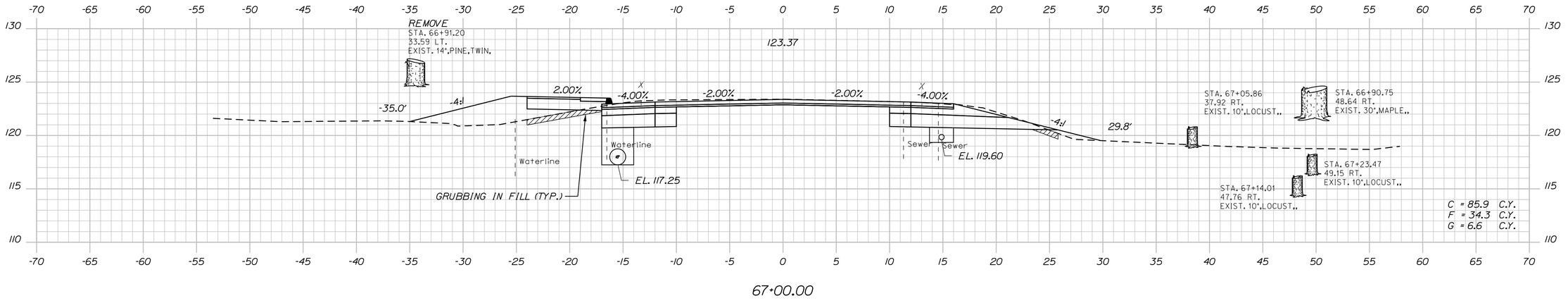
Sta. 66+08.00 to Sta. 66+50.00



67+75.00



67+50.00



67+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2		ED2	
DESIGN3-DETAILED3		ED3	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T-Y LIN INTERNATIONAL

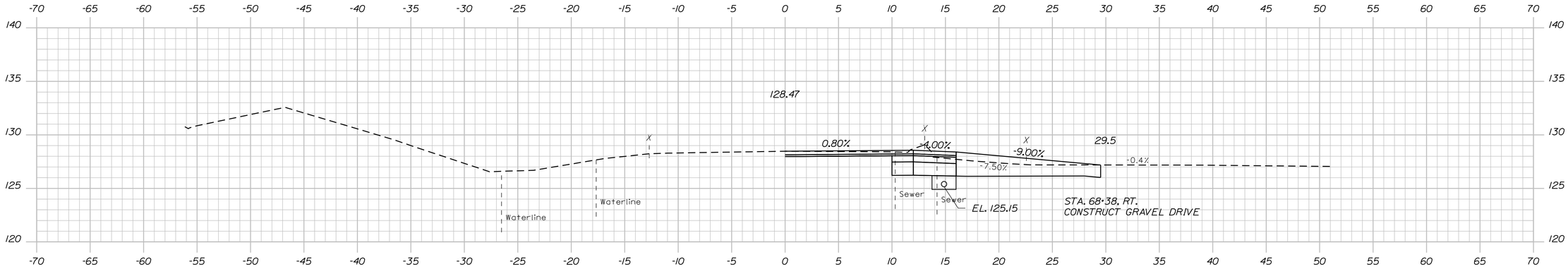
SHEET NUMBER

129

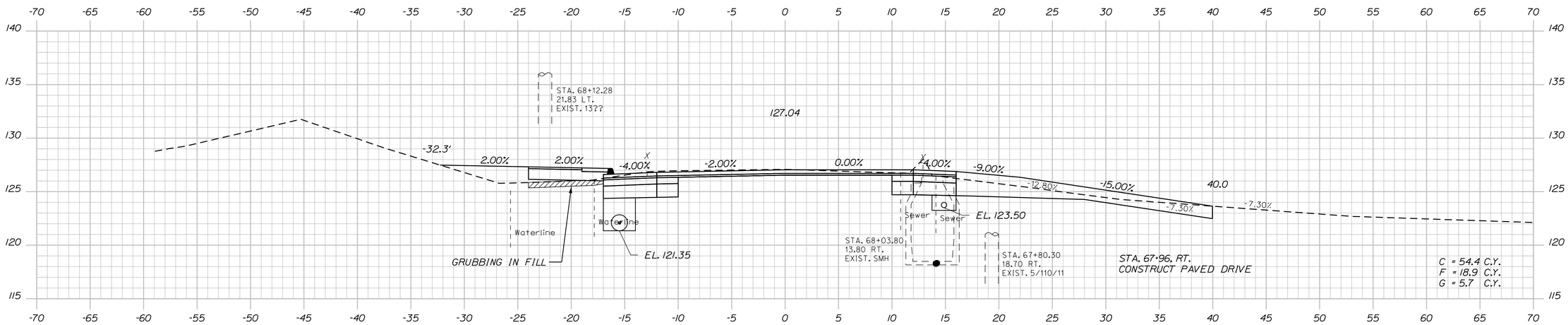
OF 213

Sta. 67+00.00 to Sta. 67+75.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



68+39.00



68+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

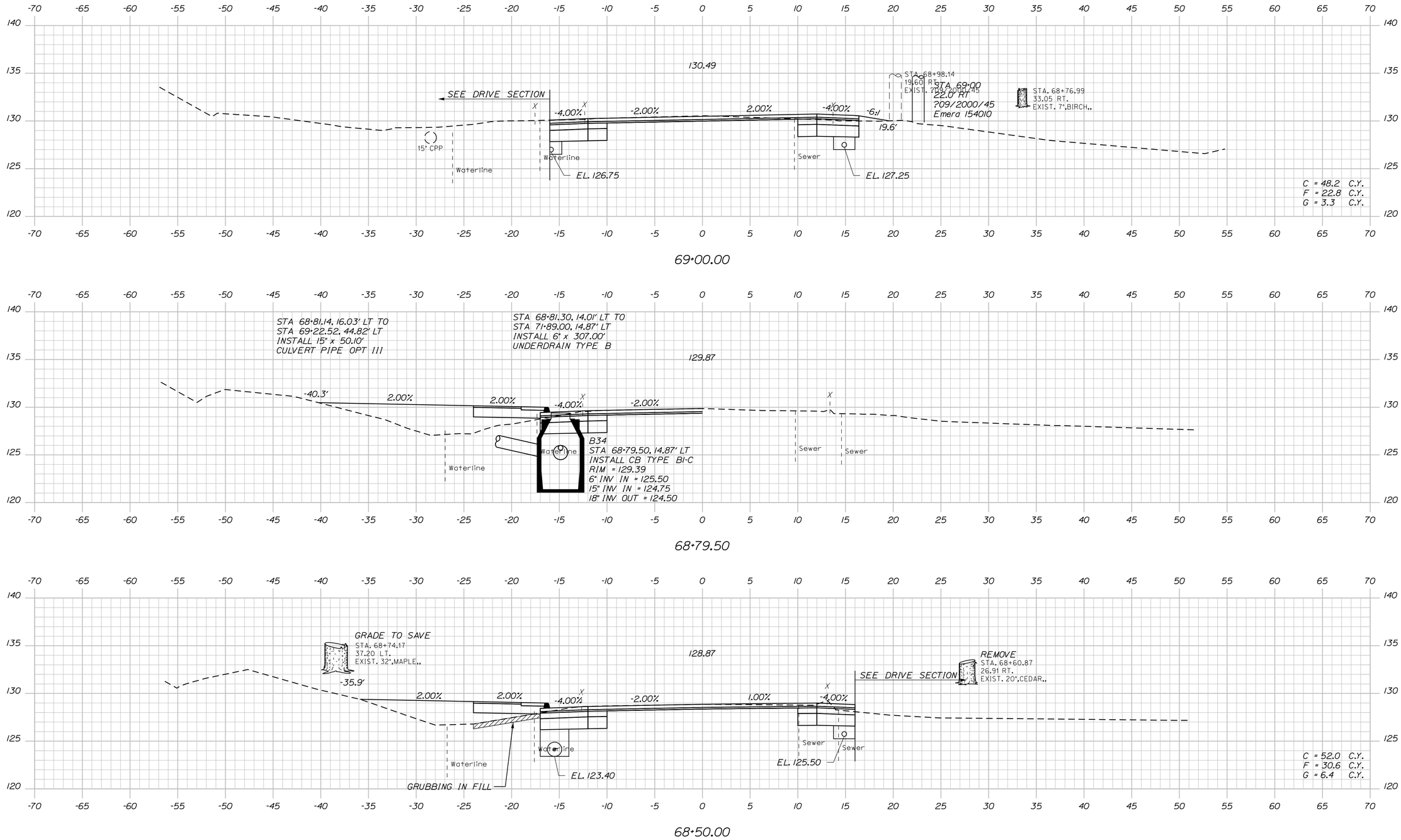
T-Y LIN INTERNATIONAL

SHEET NUMBER

130

OF 213

Sta. 68+00.00 to Sta. 68+39.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	TSK
CHECKED-REVIEWED	JRH		KSD
DESIGN2-DETAILED2	JRH		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

DATE
12/17
12/17

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

131

OF 213

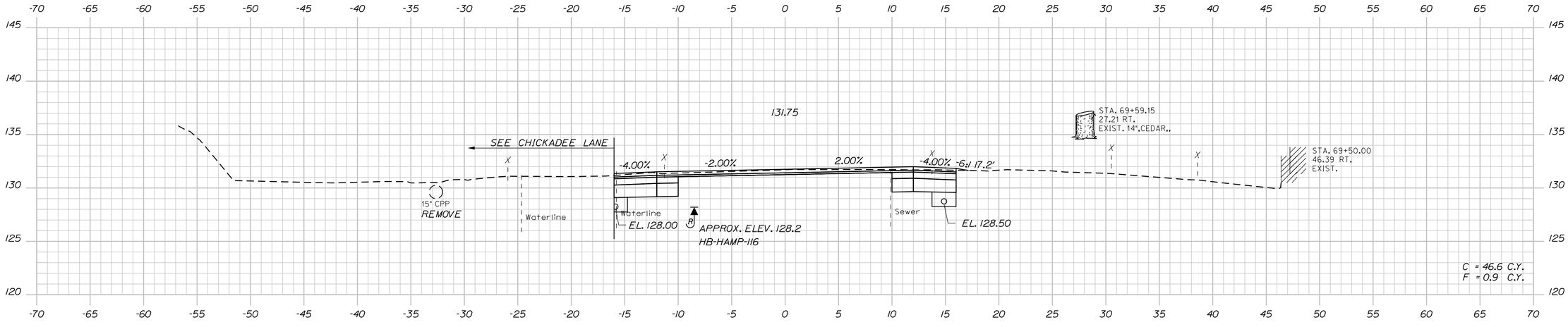
T.Y.LIN INTERNATIONAL

Sta. 68+50.00 to Sta. 69+00.00

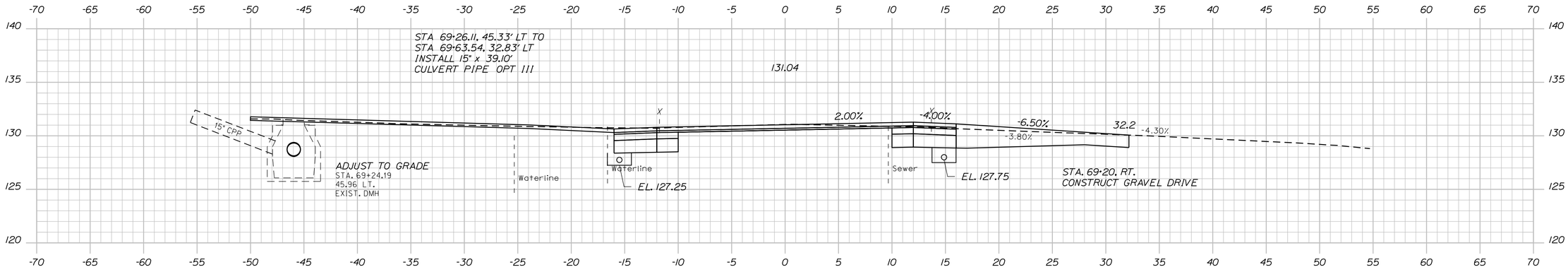
Date:3/7/2019
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Division: HIGHWAY
Filename: ...\HIGHWAY\MSTA\030_XSections.dgn

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

B57
STA 69+64.50, 32.50' LT
INSTALL CB TYPE F3
RIM = 130.75
15" INV OUT = 128.75



69+50.00



69+20.00

Sta. 69+20.00 to Sta. 69+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

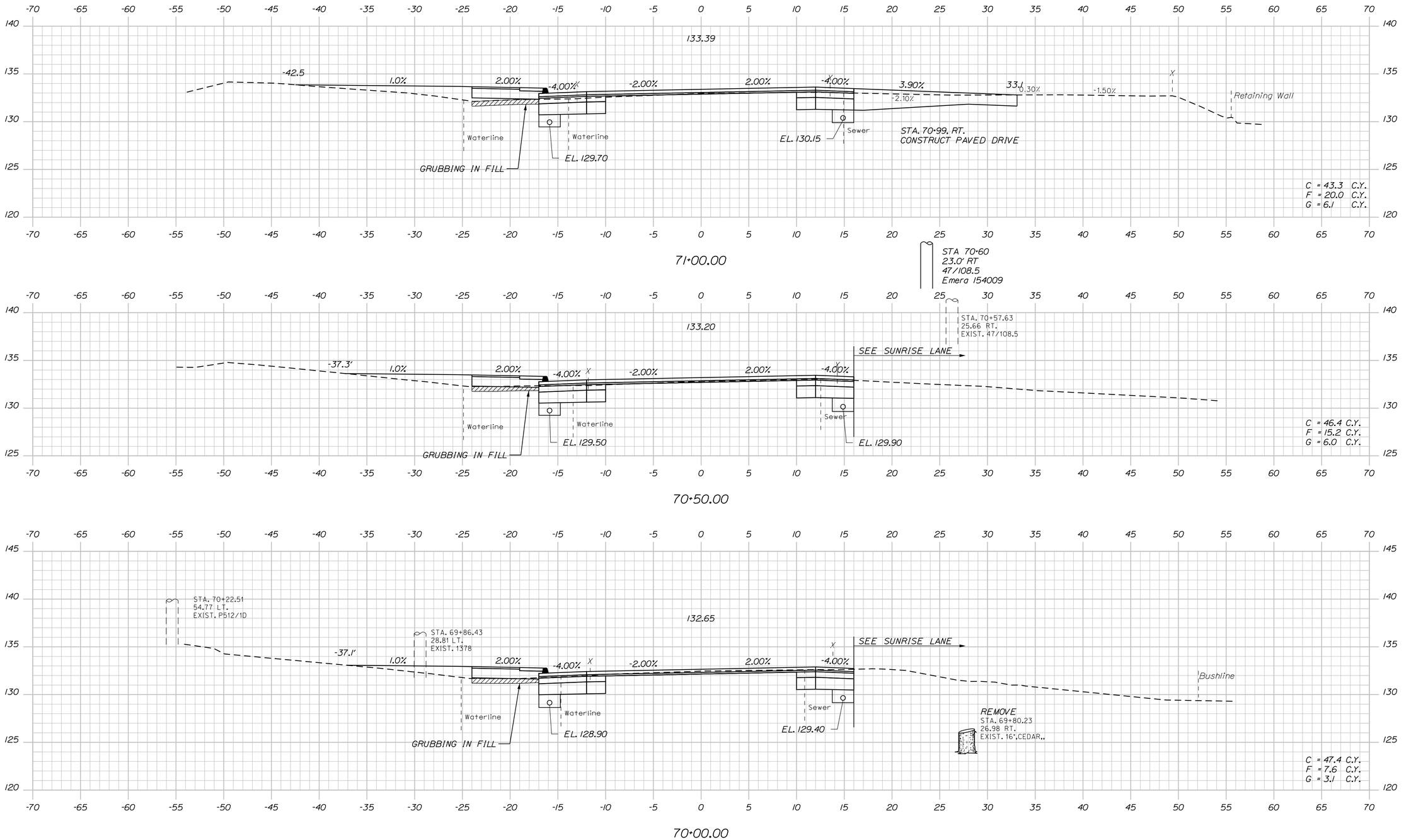
DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER
132
OF 213

T.Y.LIN INTERNATIONAL



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

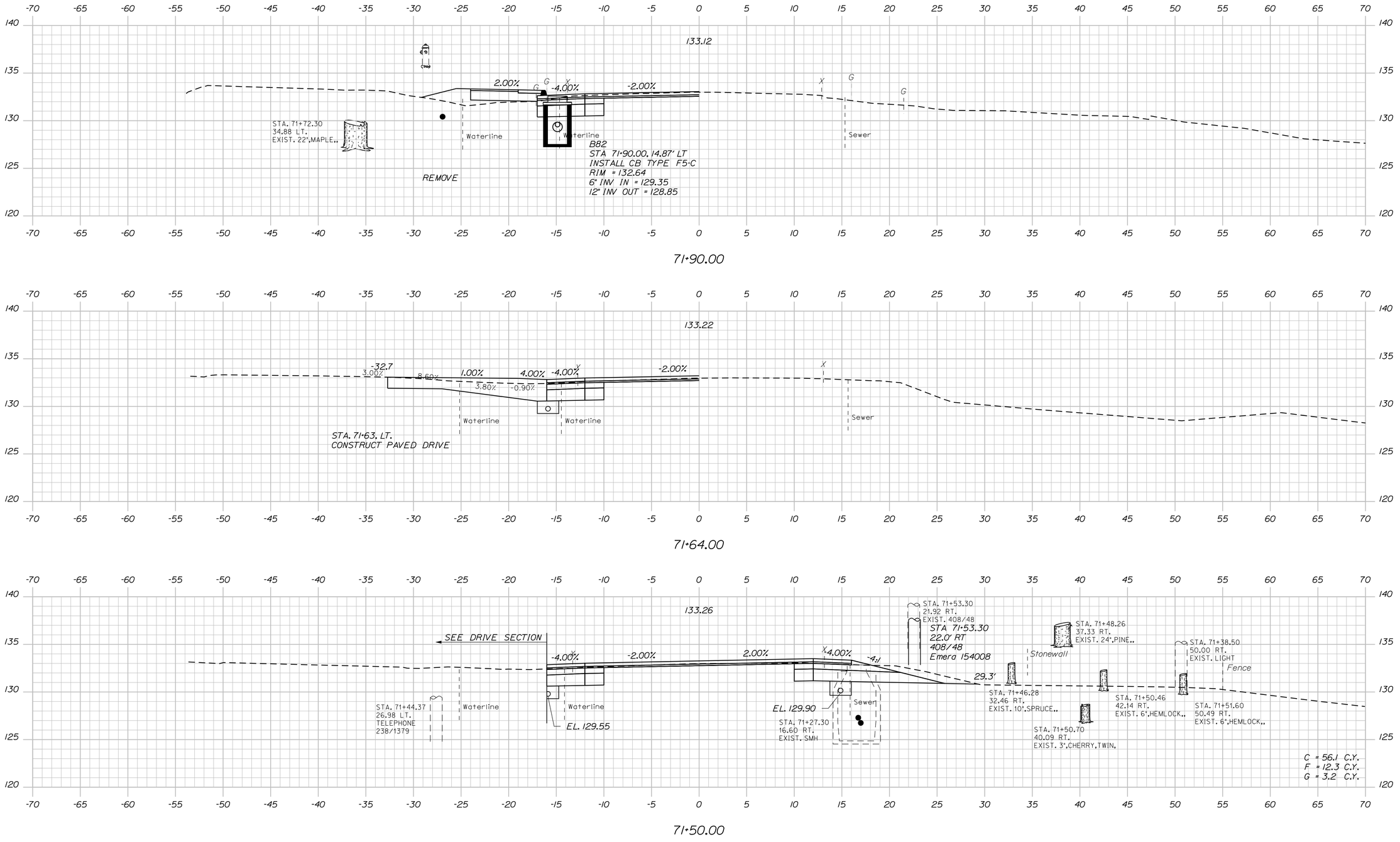
133

OF 213

T·Y·LIN INTERNATIONAL

Sta. 70+00.00 to Sta. 71+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

134

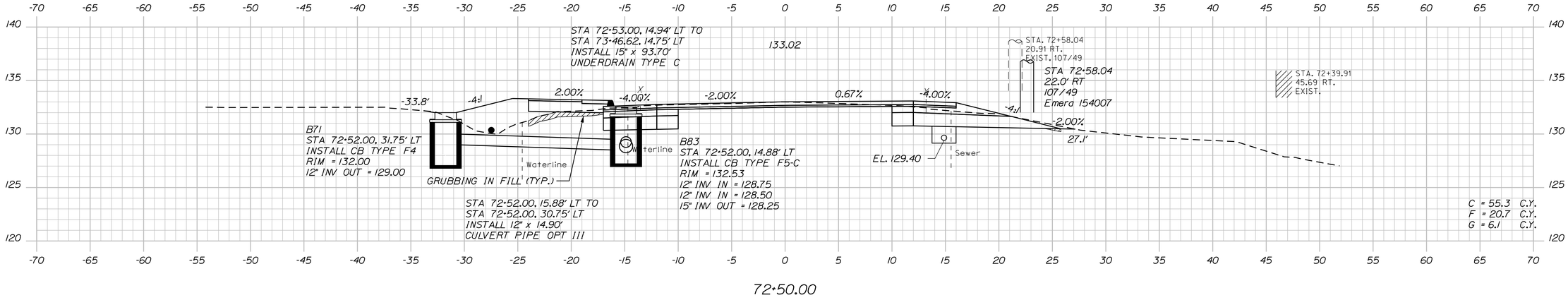
OF 213

T·Y·LIN INTERNATIONAL

Sta. 71+50.00 to Sta. 71+90.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

135

OF 213

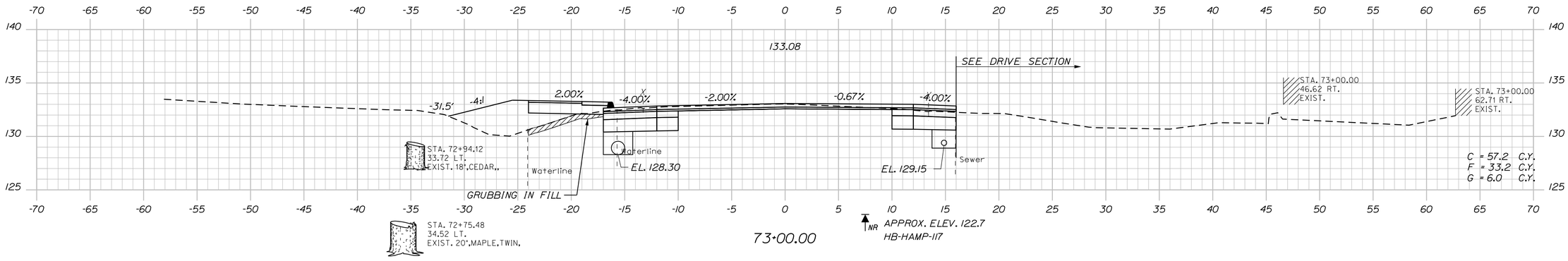
T-Y LIN INTERNATIONAL

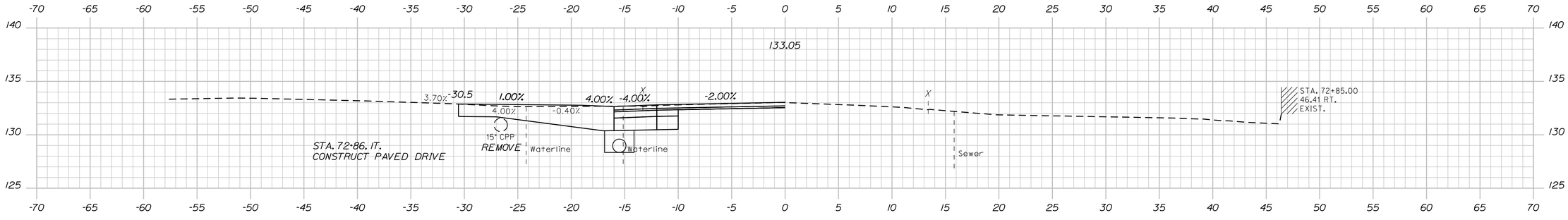
Sta. 72+00.00 to Sta. 72+50.00

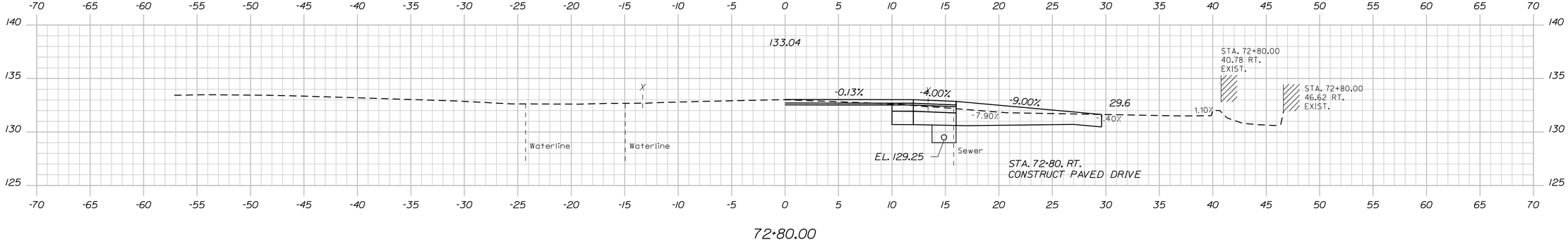
Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

STA 73+31.47, 14.87' RT TO
STA 73+51.16, 35.16' RT
INSTALL 6" x 28.30'
UNDERDRAIN OUTLET WITH 45° ELBOW

6" OUTLET EL = 127.55







Sta. 72+80.00 to Sta. 73+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

E.I.C. | BY | DATE

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

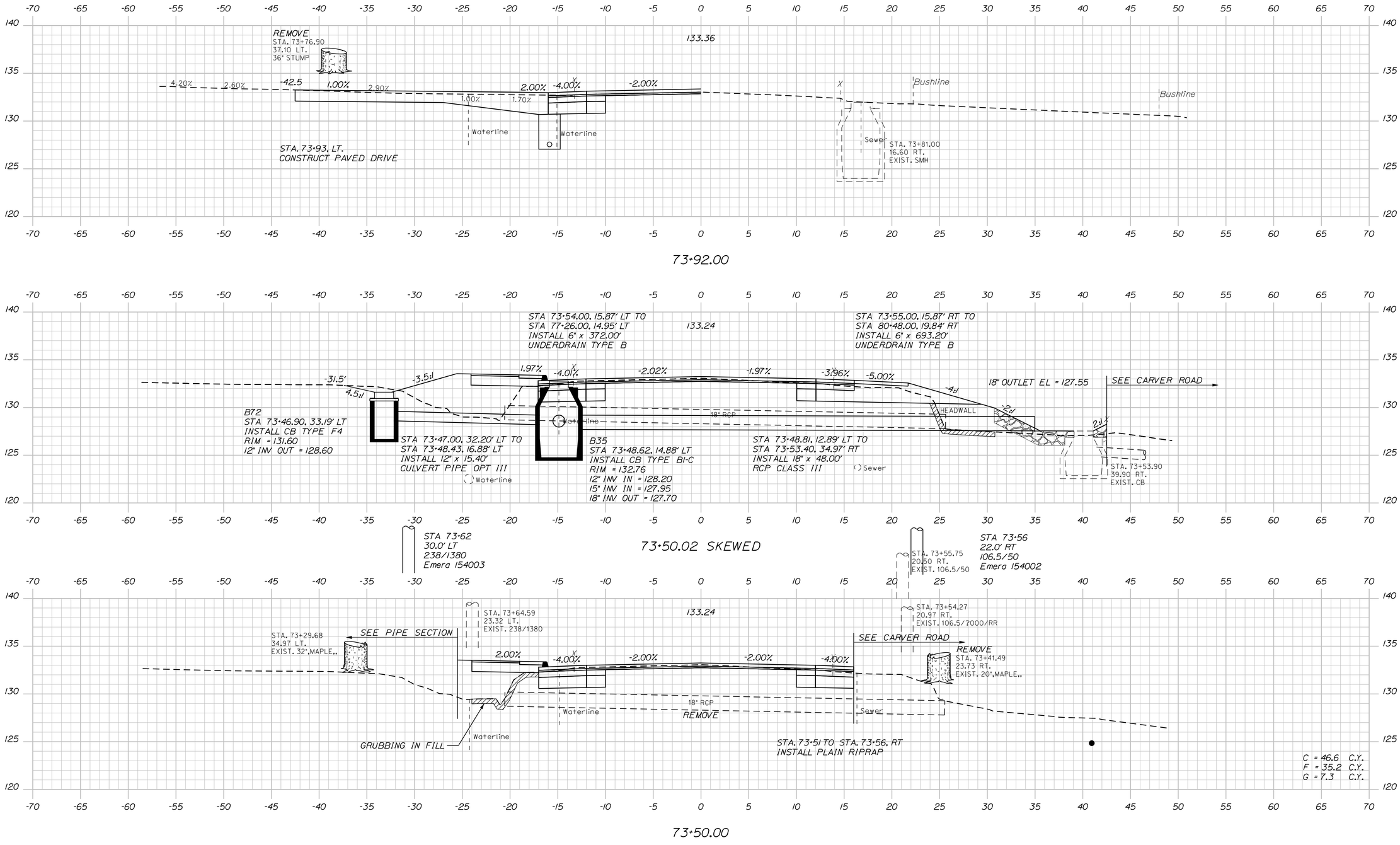
CROSS SECTIONS

SHEET NUMBER

136

OF 213

T·Y·LIN INTERNATIONAL



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

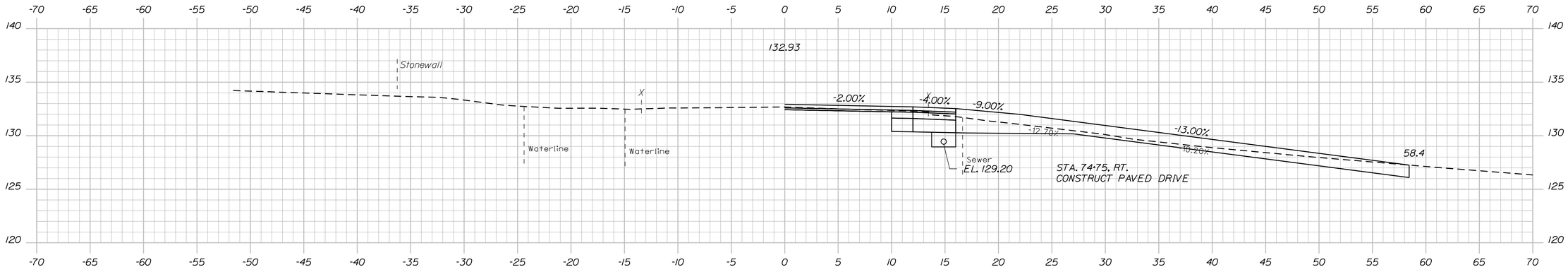
CROSS SECTIONS

SHEET NUMBER
137
OF 213

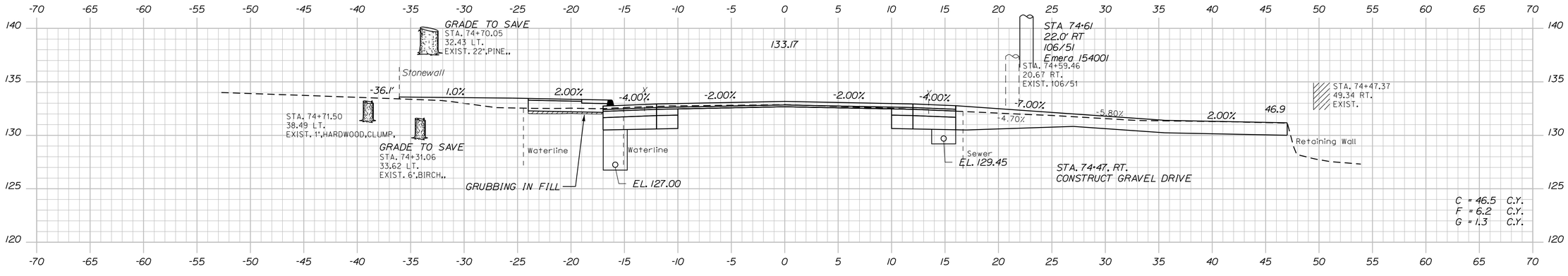
T.Y.LIN INTERNATIONAL

Sta. 73+50.00 to Sta. 73+92.00

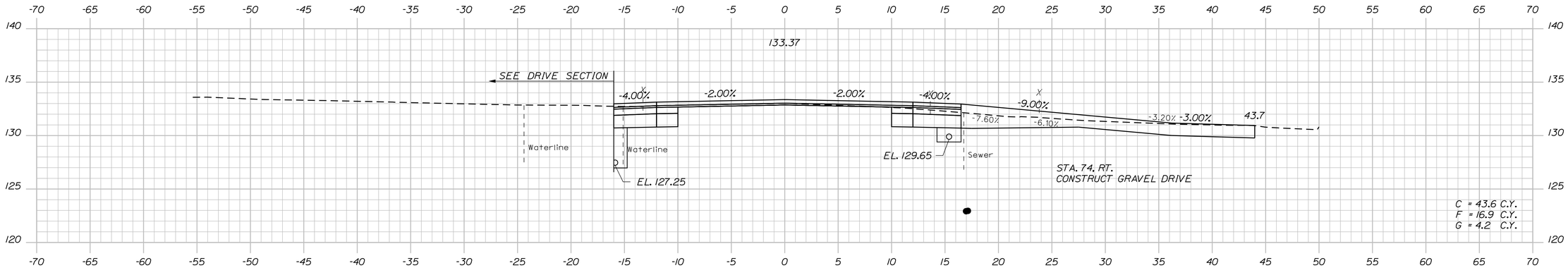
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74+74.00



74+50.00



74+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

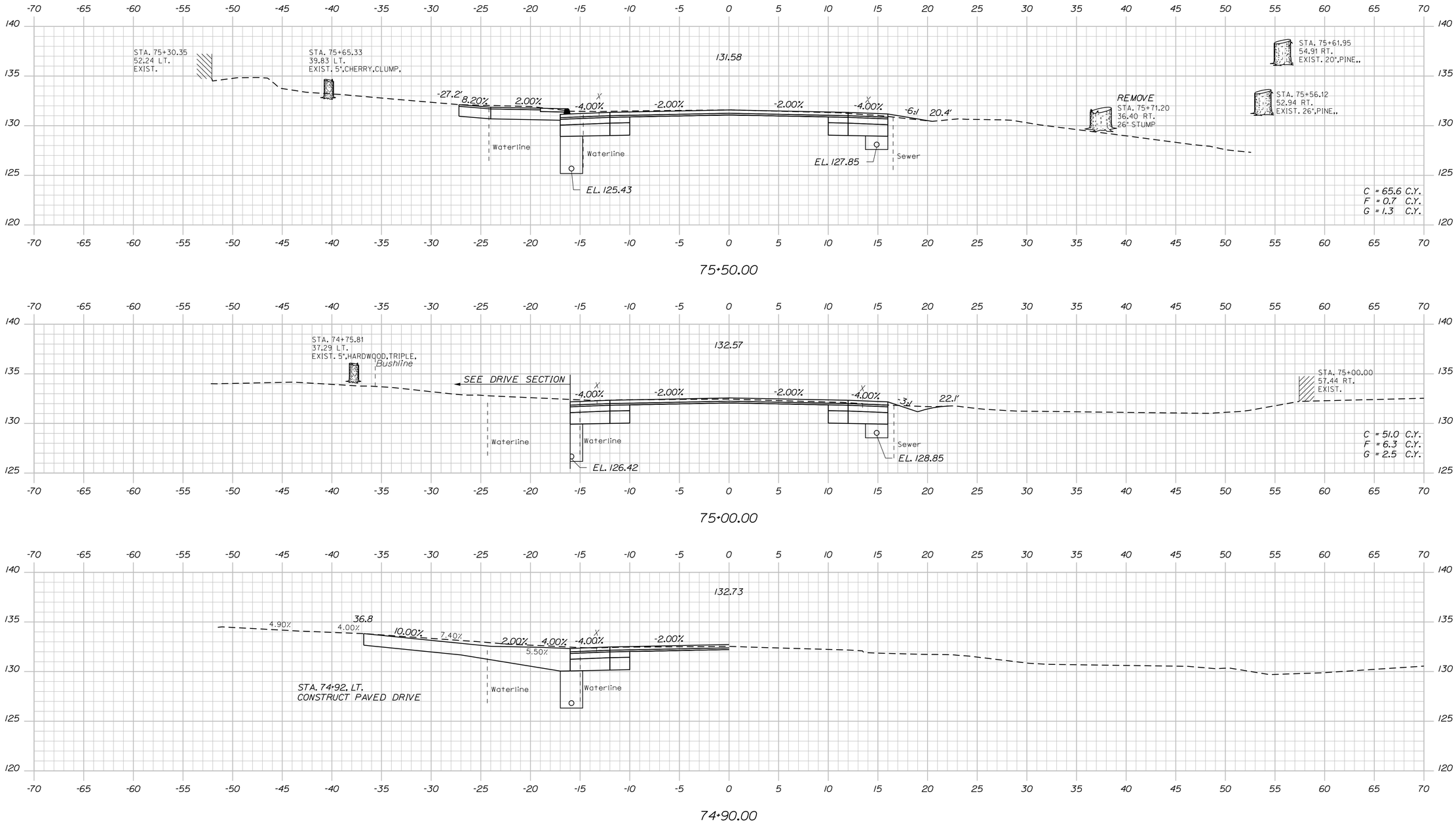
138

OF 213

T·Y·LIN INTERNATIONAL

Sta. 74+00.00 to Sta. 74+74.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

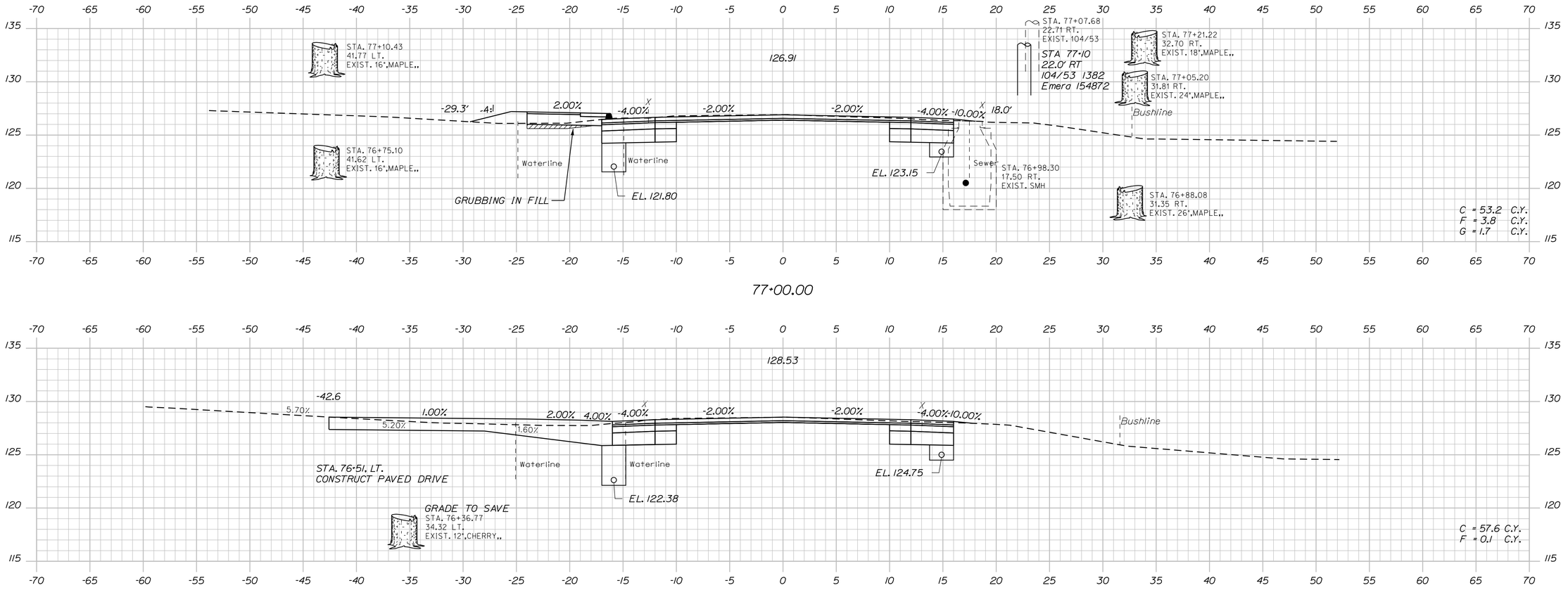
139

OF 213

T-Y LIN INTERNATIONAL

Sta. 74+90.00 to Sta. 75+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

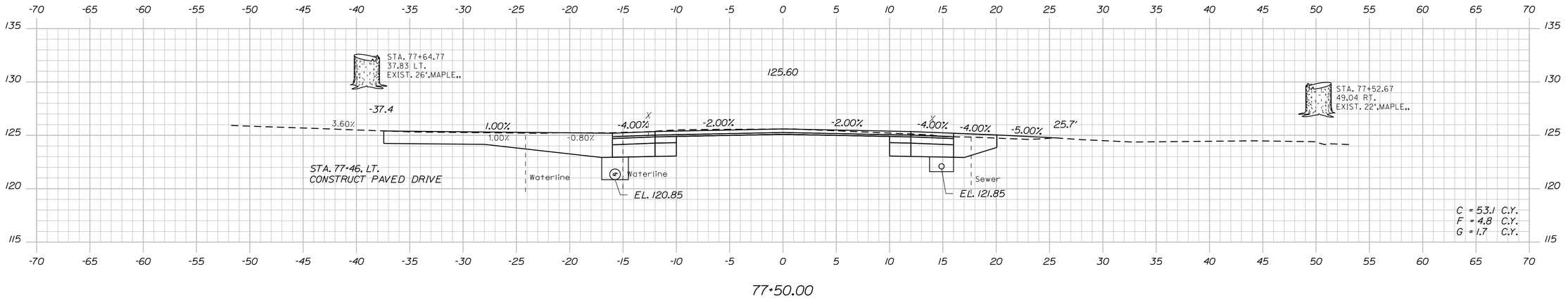
140

OF 213

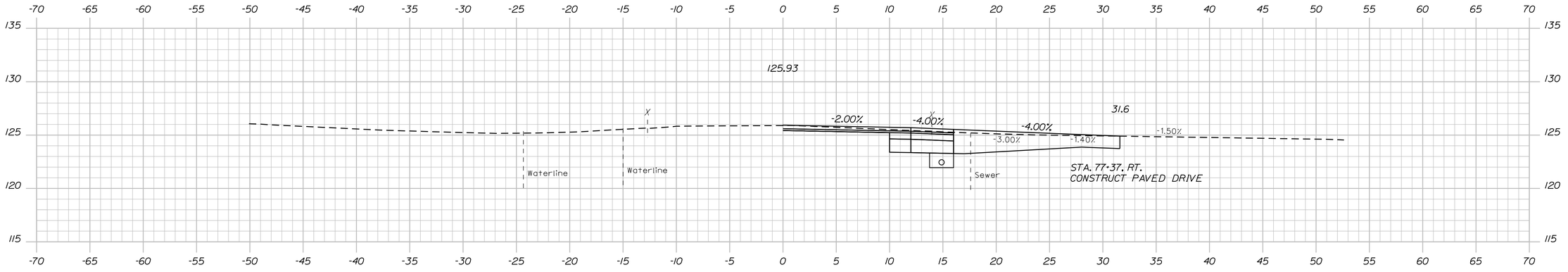
T·Y LIN INTERNATIONAL

Sta. 76+00.00 to Sta. 77+00.00

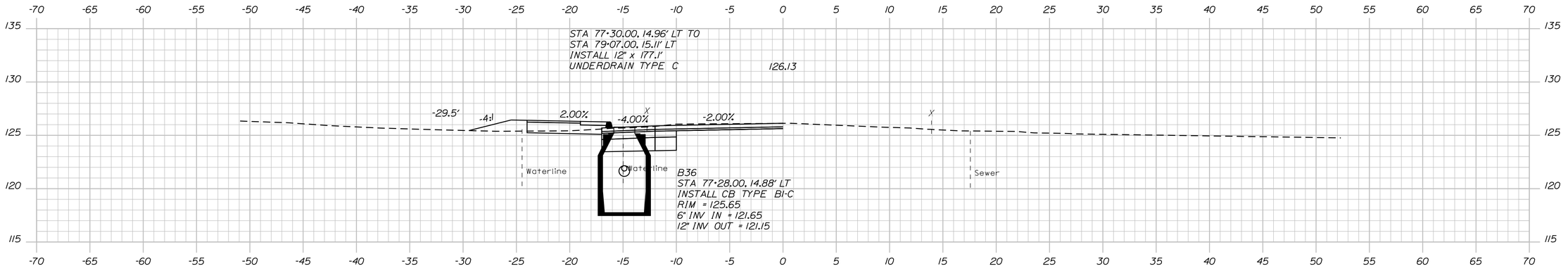
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77+50.00



77+36.00



77+27.99

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

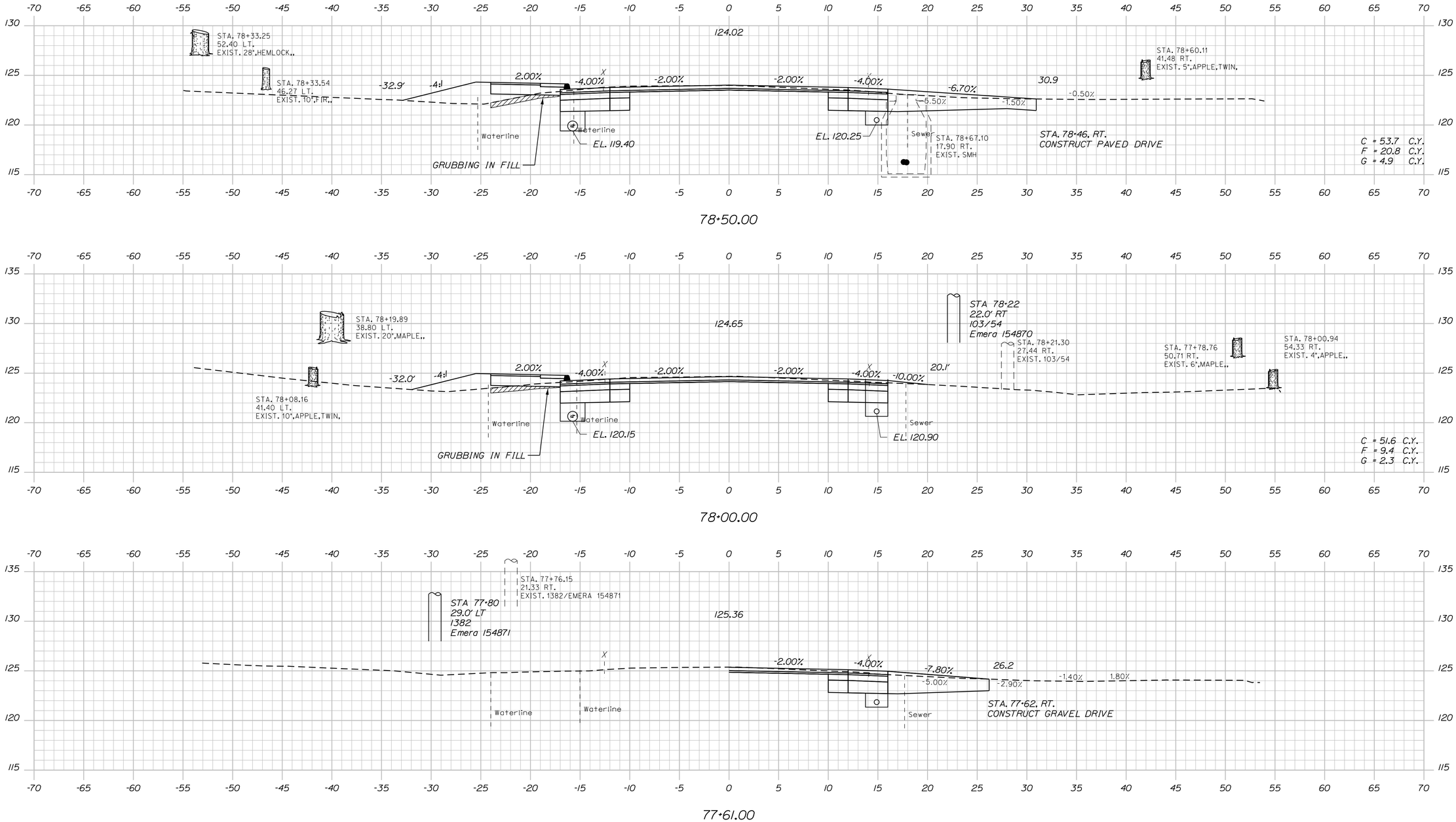
141

OF 213

T-Y LIN INTERNATIONAL

Sta. 77+27.99 to Sta. 77+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	TSK 12/17
CHECKED-REVIEWED	JRH	KSD 12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

142

OF 213

T·Y·LIN INTERNATIONAL

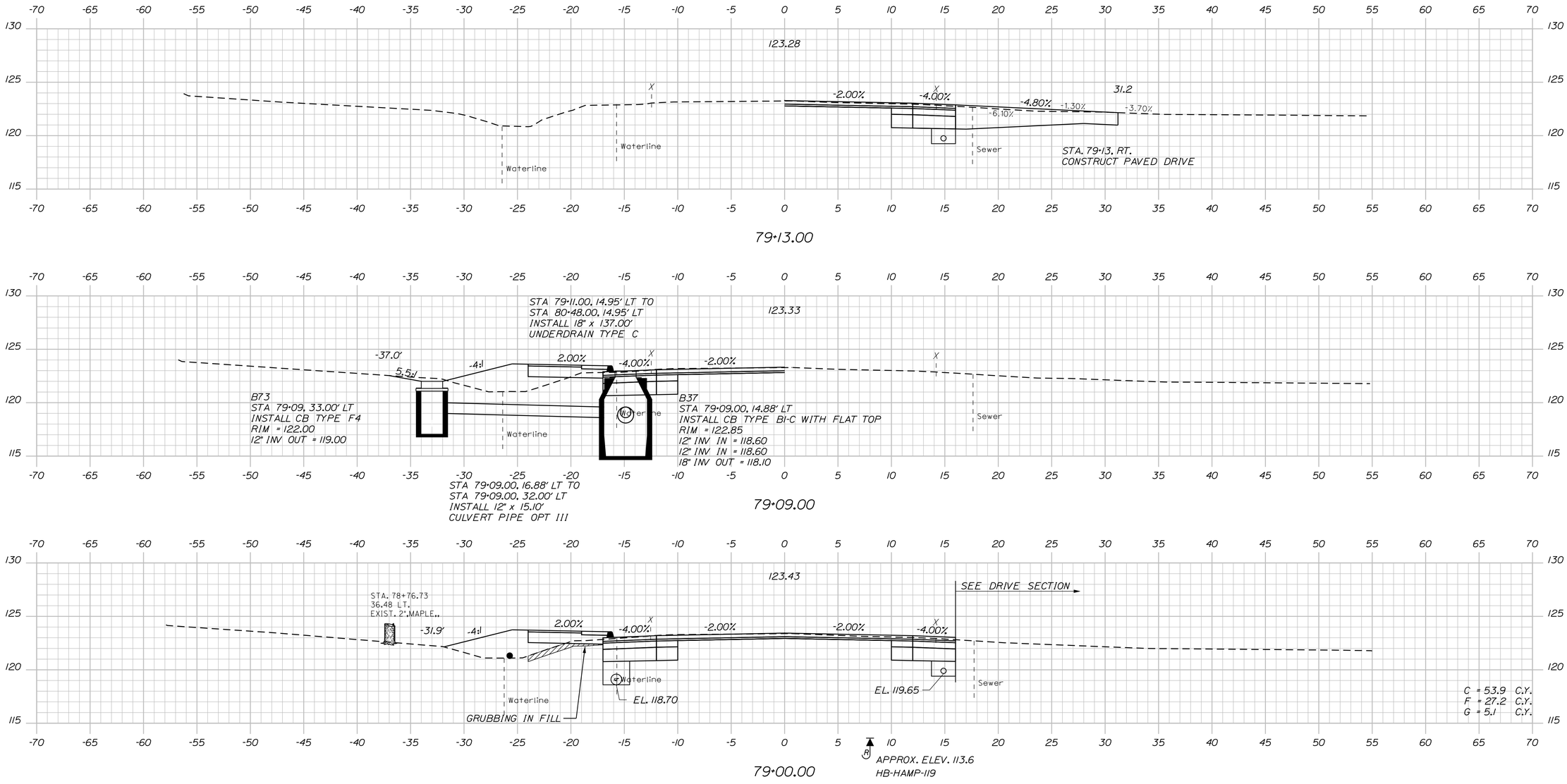
Sta. 77+61.00 to Sta. 78+50.00

Date:3/7/2019

Username:

Division: HIGHWAY

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
DESIGNED	TSK	12/17
DETAILED	KSD	12/17
CHECKED		
QUALITY CONTROL		
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	
CHECKED-REVIEWED	JRH	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

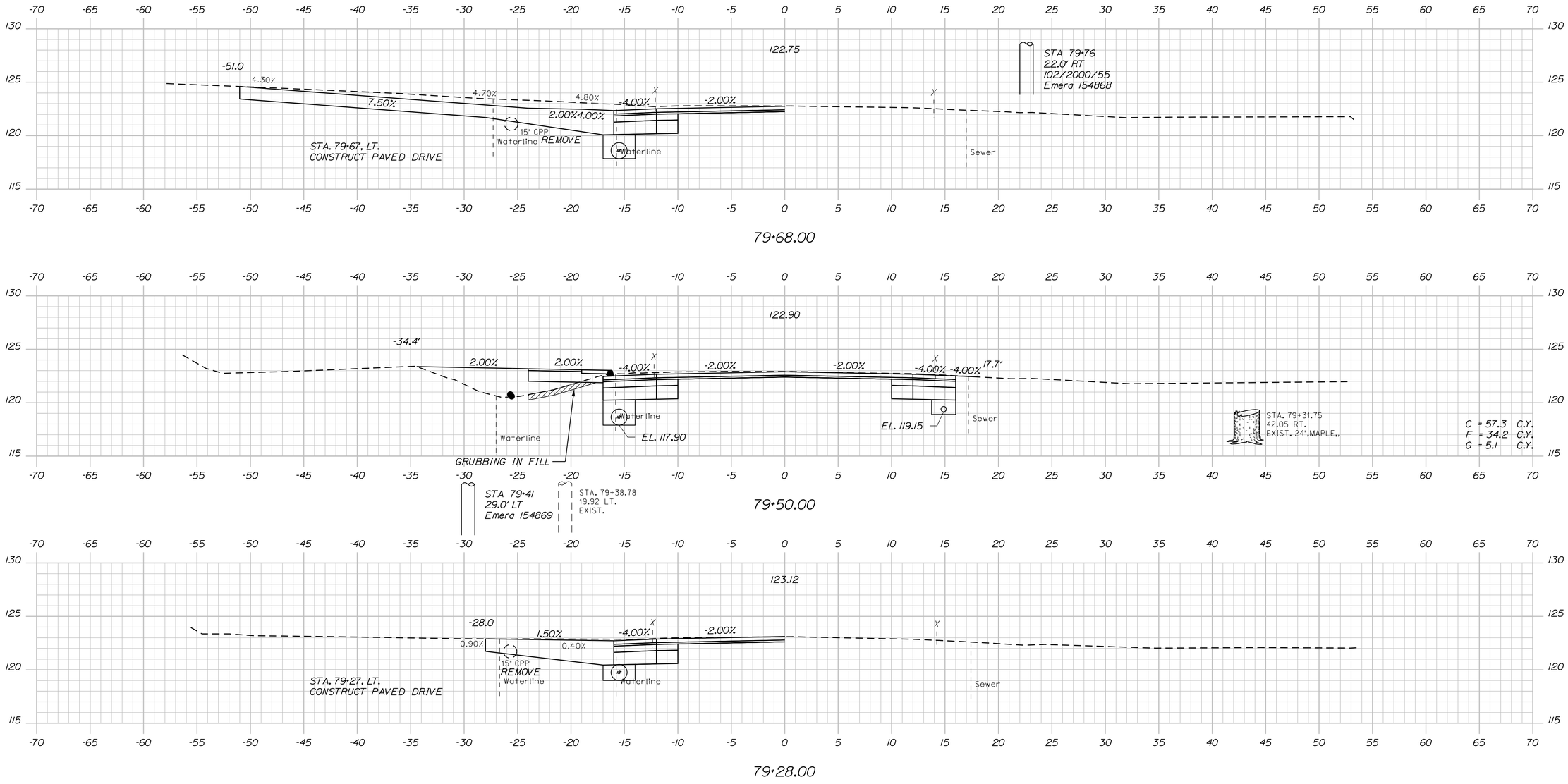
143

OF 213

TYLININTERNATIONAL

Sta. 79+00.00 to Sta. 79+13.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

E | BY | DATE

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

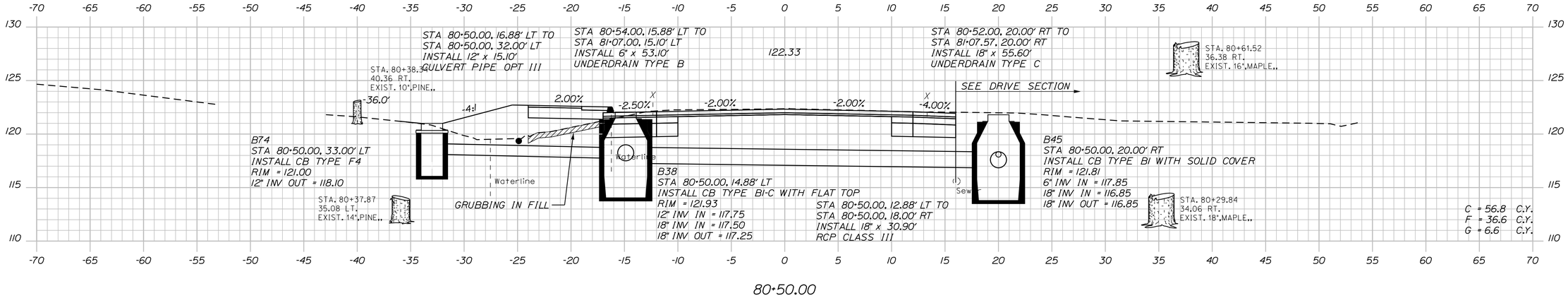
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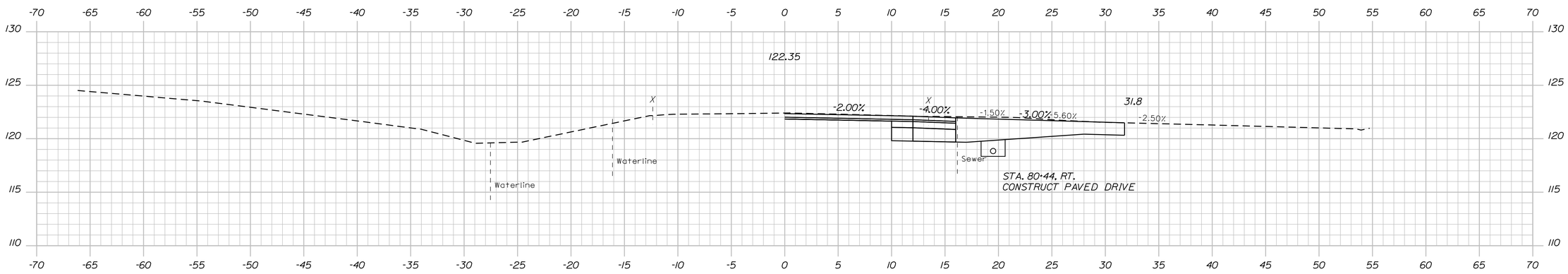
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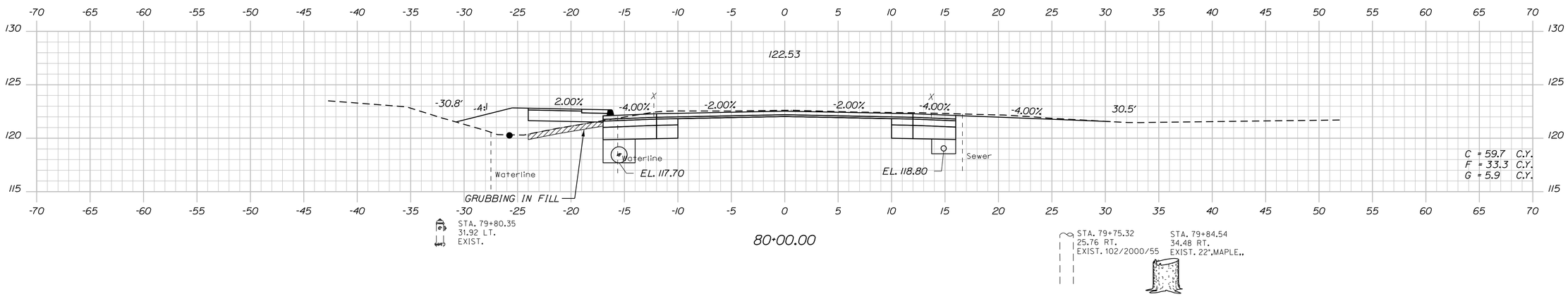
T·Y·LIN INTERNATIONAL

Sta. 79+28.00 to Sta. 79+68.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2	JRH	KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

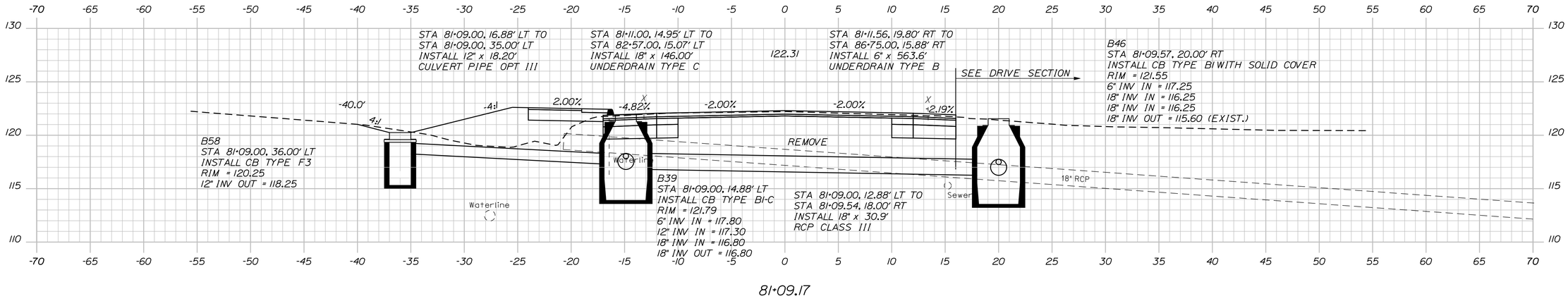
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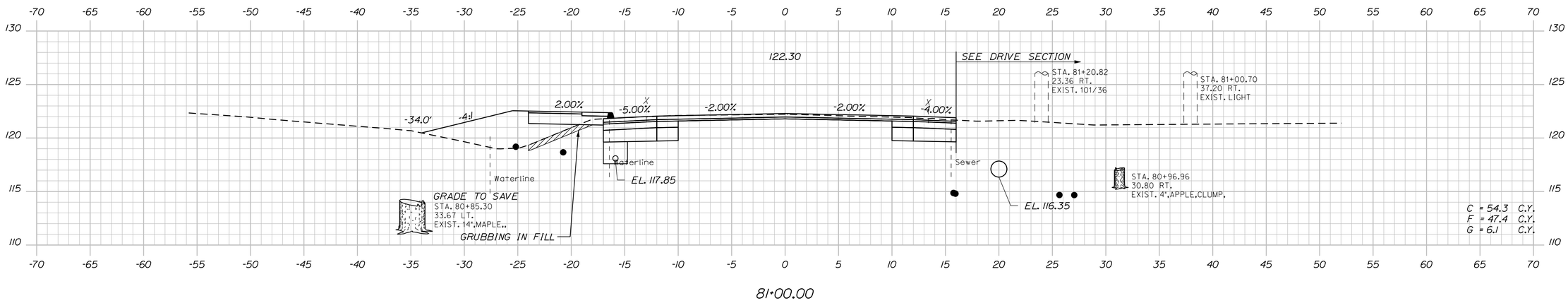
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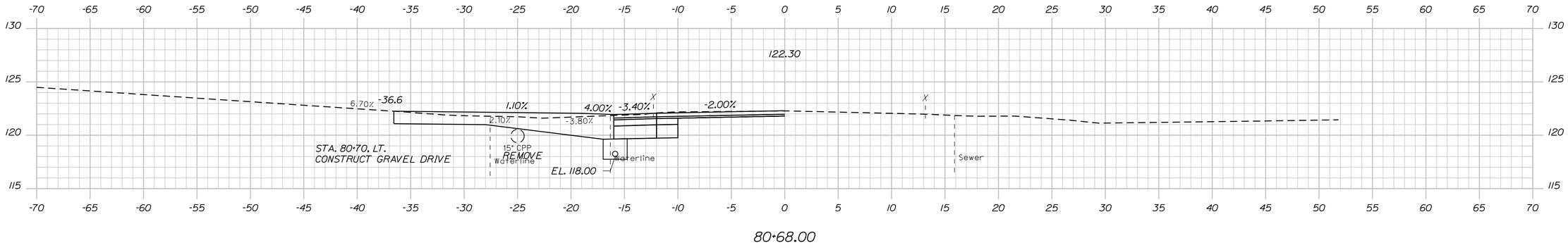
T-Y LIN INTERNATIONAL

Sta. 80+00.00 to Sta. 80+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

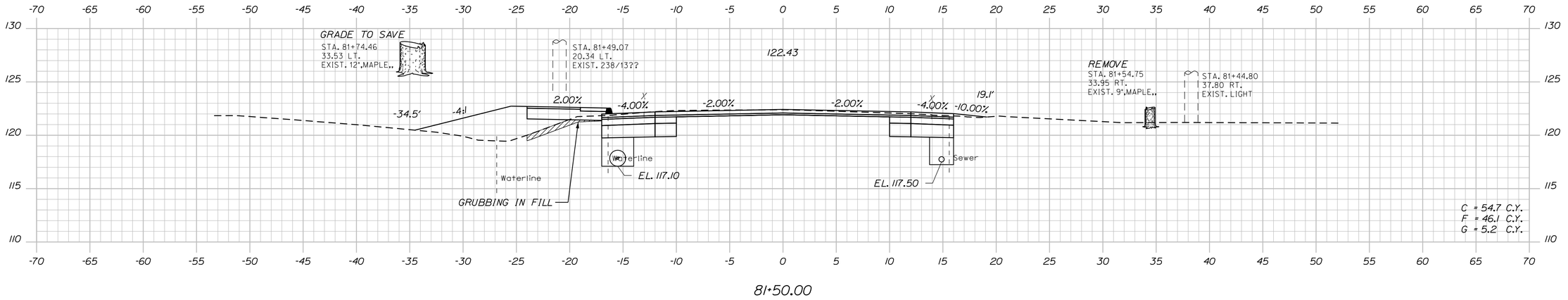
146

OF 213

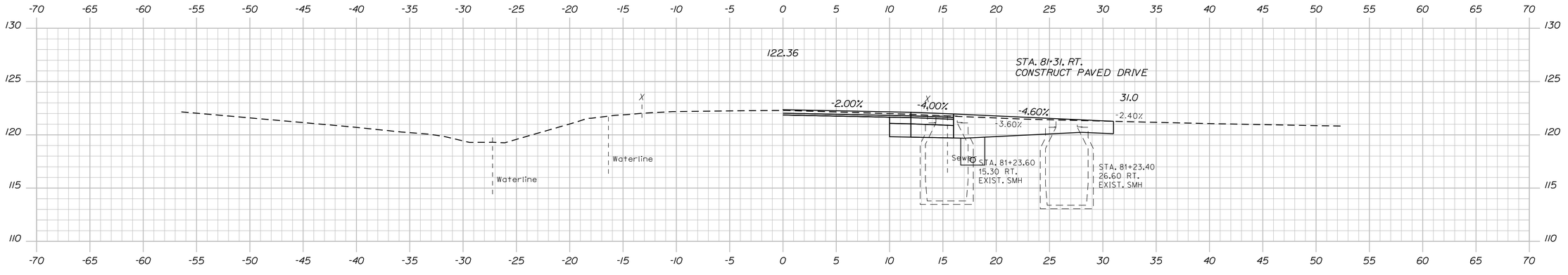
T.Y.LIN INTERNATIONAL

Sta. 80+68.00 to Sta. 81+09.17

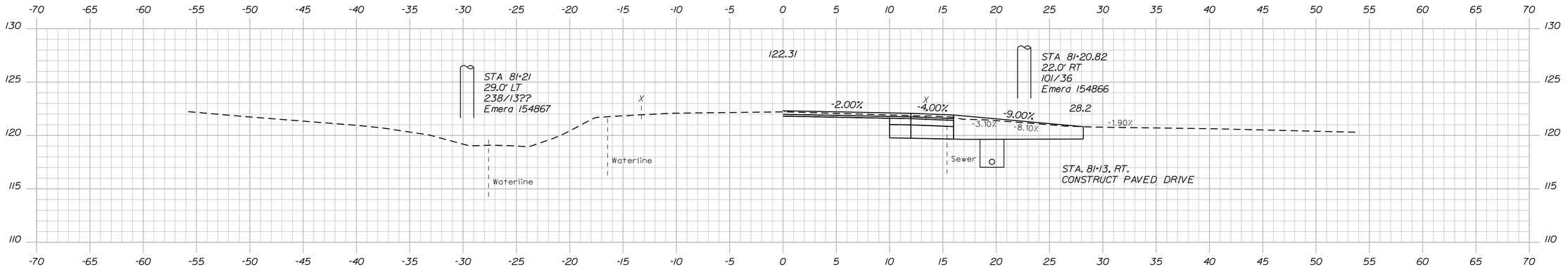
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81+50.00



81+31.00



81+13.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

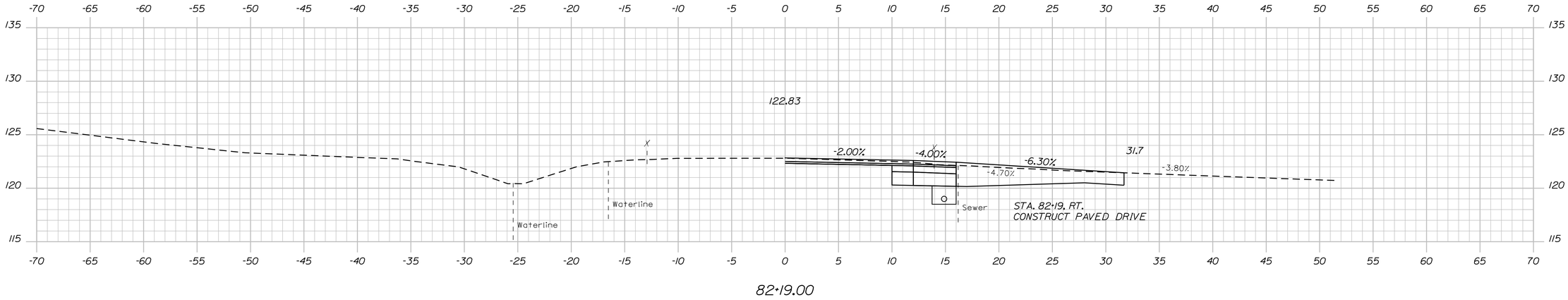
147

OF 213

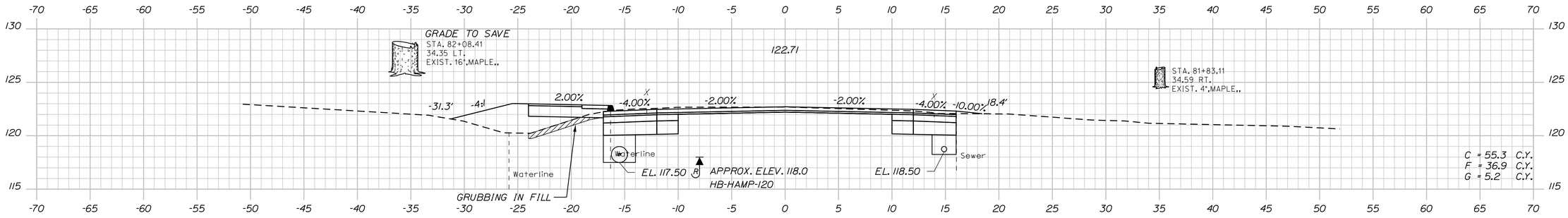
T.Y.LIN INTERNATIONAL

Sta. 81+13.00 to Sta. 81+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



82+19.00



82+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	TSK
CHECKED-REVIEWED	JRH		KSD
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

	DATE
	12/17
	12/17

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

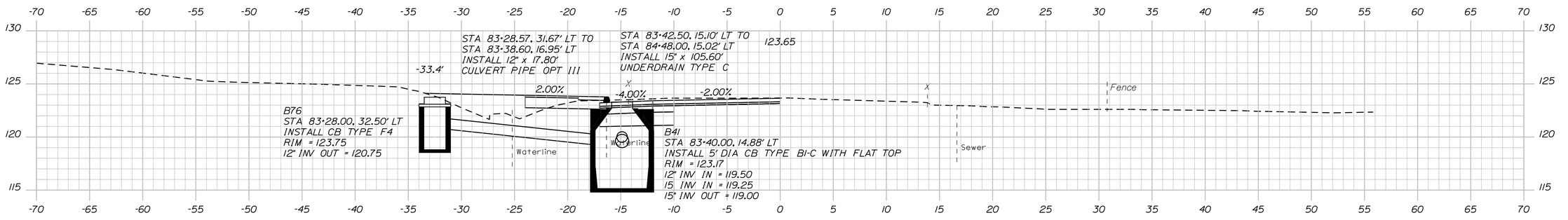
148

OF 213

T.Y.LIN INTERNATIONAL

Sta. 81+85.00 to Sta. 82+19.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Username: Division: HIGHWAY Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

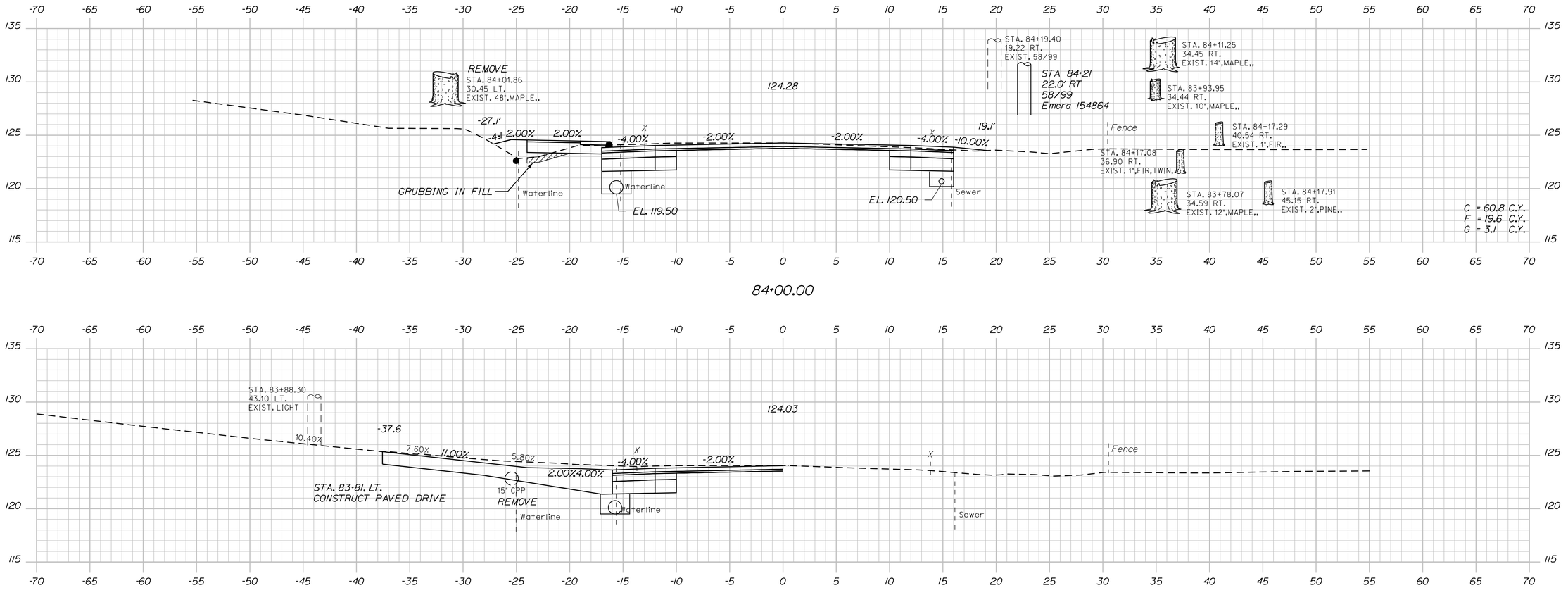
SHEET NUMBER

149

OF 213

T·Y·LIN INTERNATIONAL

Sta. 82+50.00 to Sta. 83+39.61



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

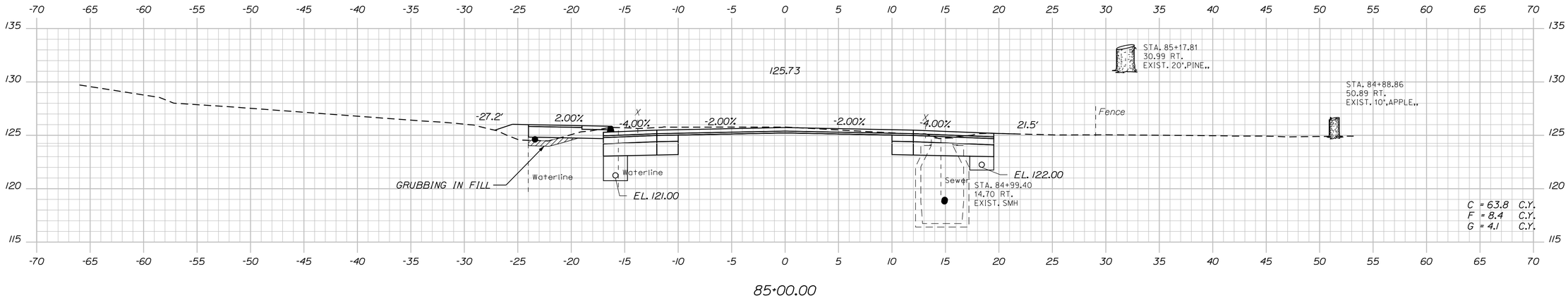
150

OF 213

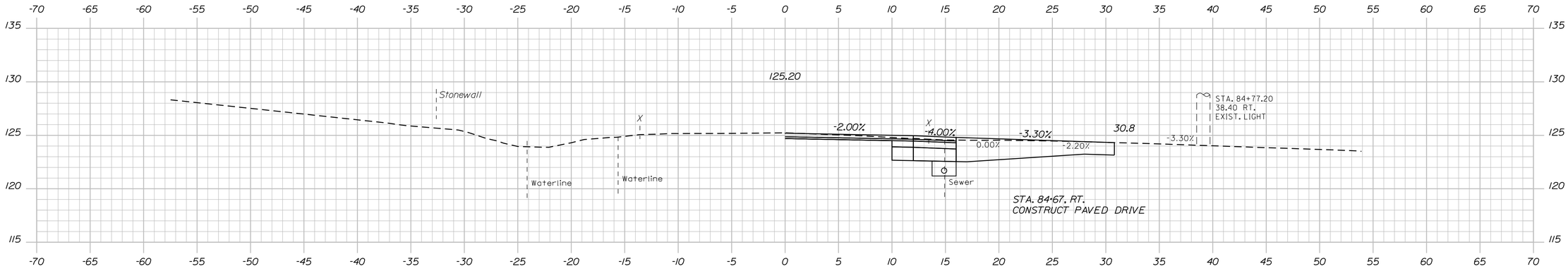
T.Y.LIN INTERNATIONAL

Sta. 83+50.00 to Sta. 84+00.00

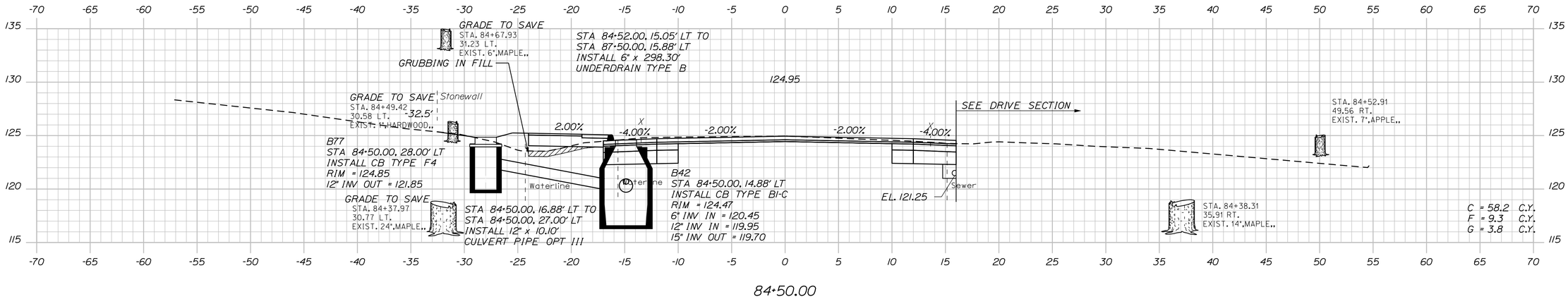
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85+00.00



84+67.00



84+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

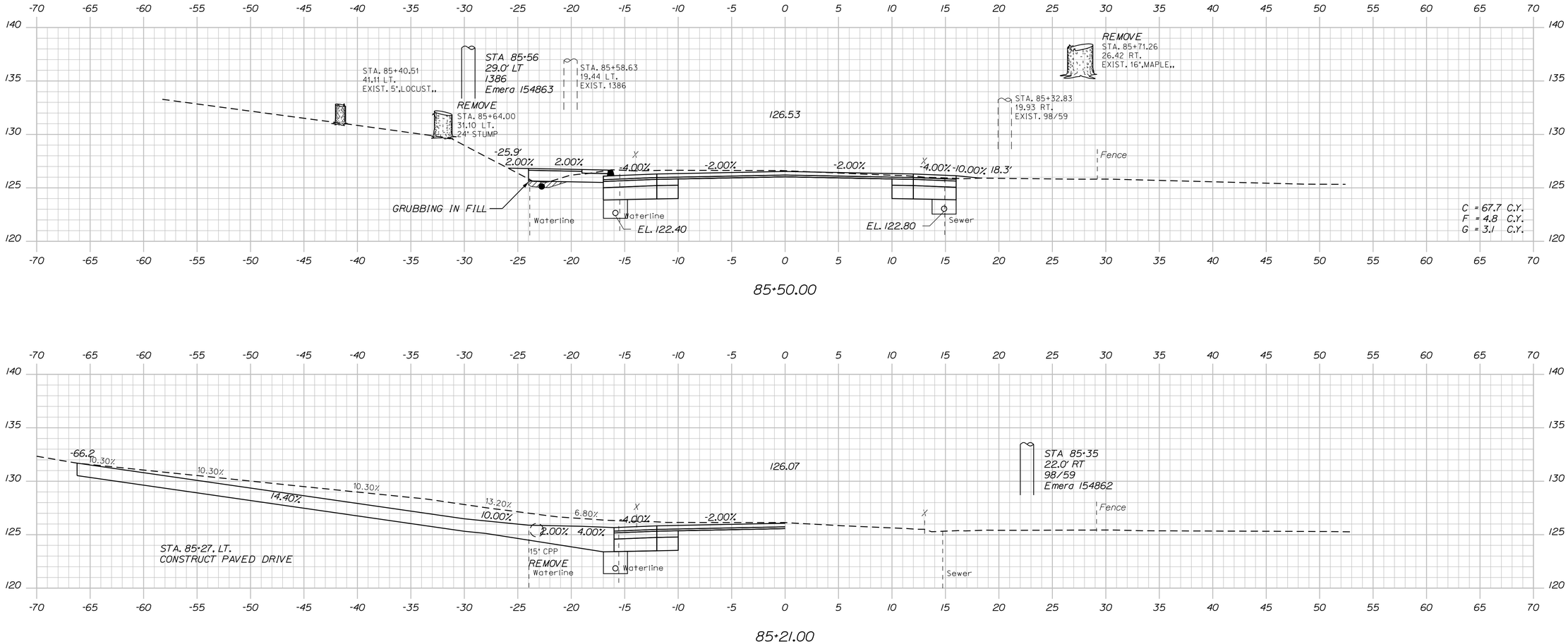
151

OF 213

T.Y.LIN INTERNATIONAL

Sta. 84+50.00 to Sta. 85+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

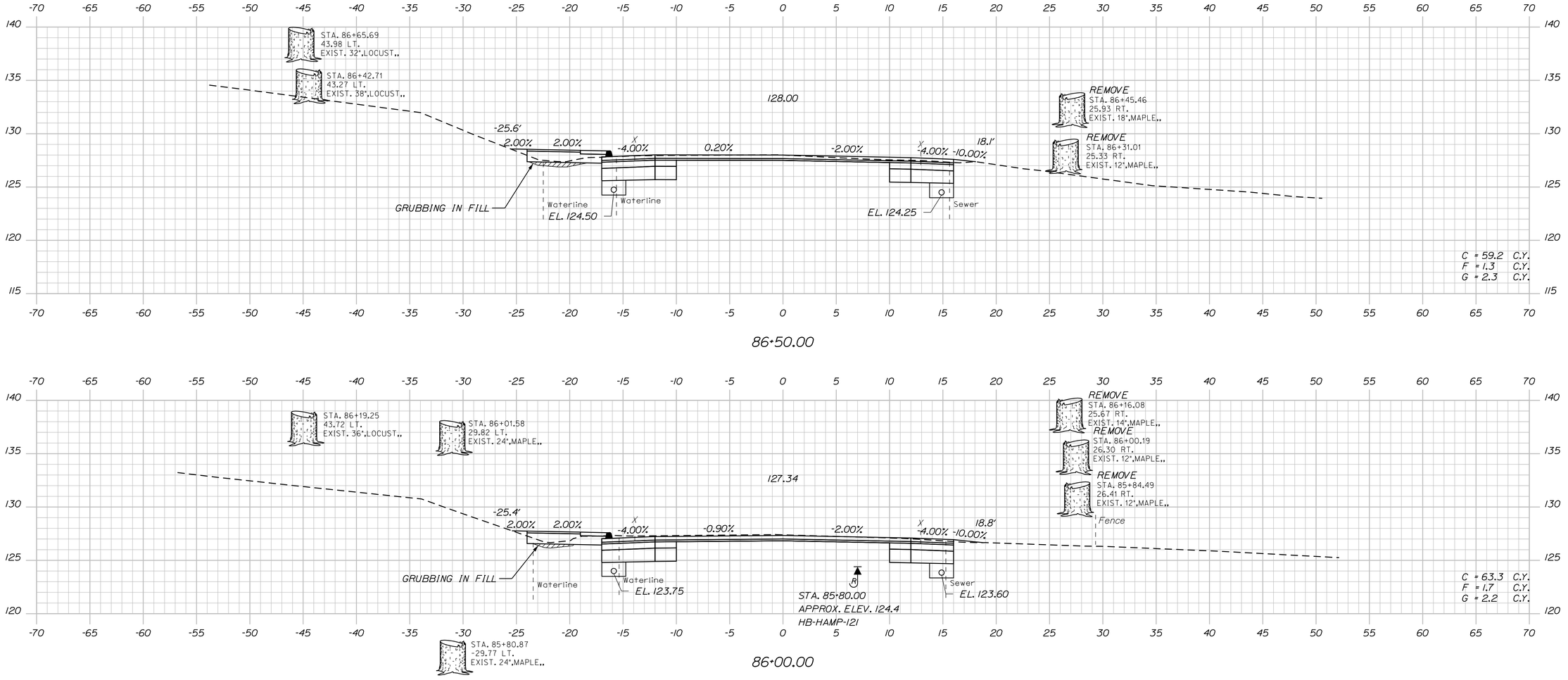
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OF 213

T.Y.LIN INTERNATIONAL

Sta. 85+21.00 to Sta. 85+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

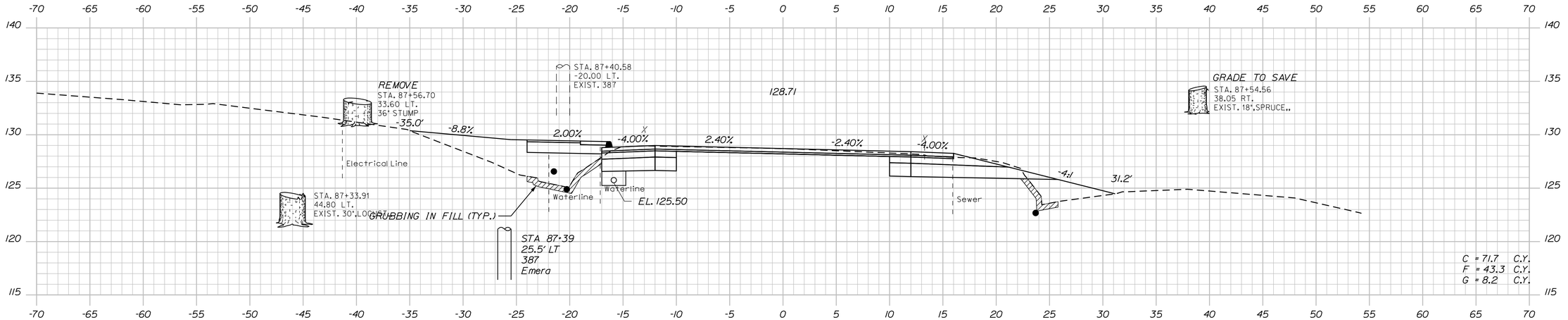
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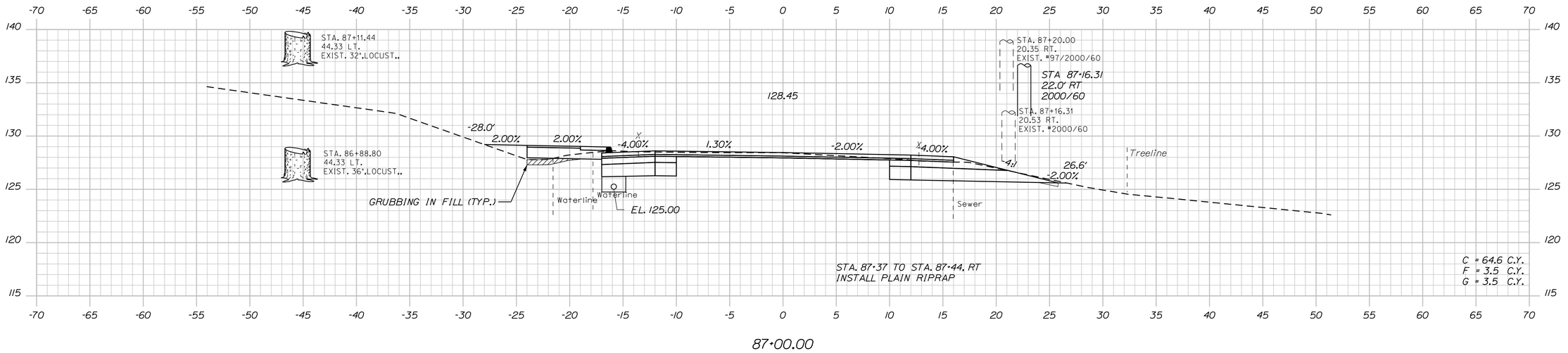
OF 213

T·Y·LIN INTERNATIONAL

Sta. 86+00.00 to Sta. 86+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019





Date:3/7/2019

Username:

Division: HIGHWAY

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T·Y·LIN INTERNATIONAL

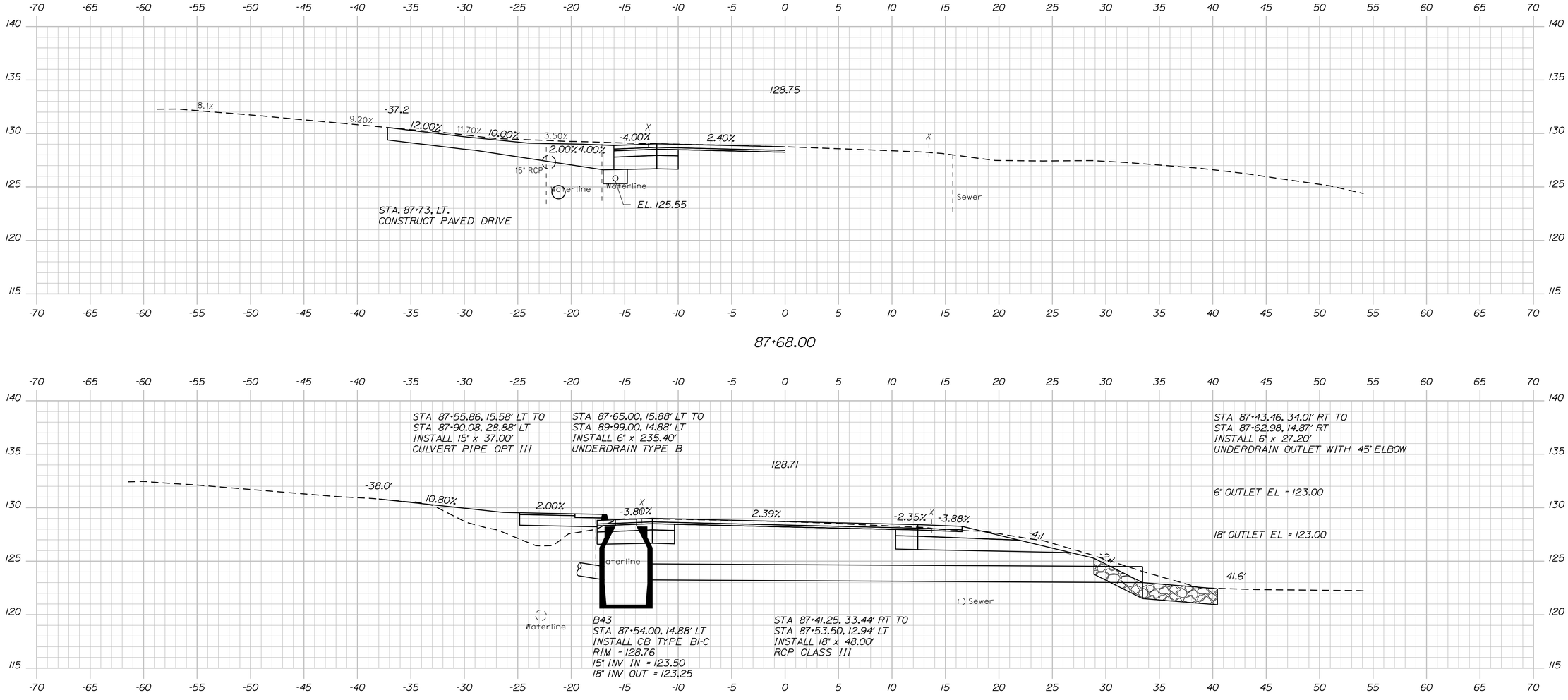
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154

OF 213

Sta. 87+00.00 to Sta. 87+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY | DATE

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

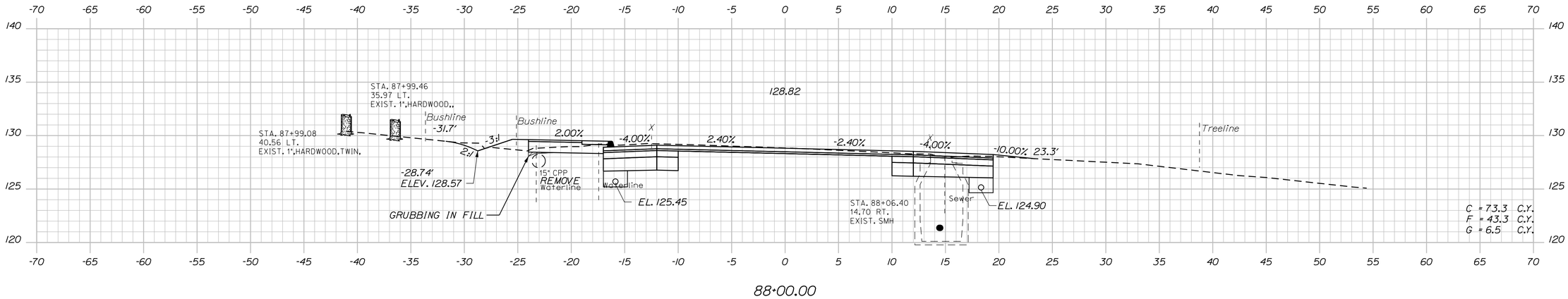
TYLININTERNATIONAL

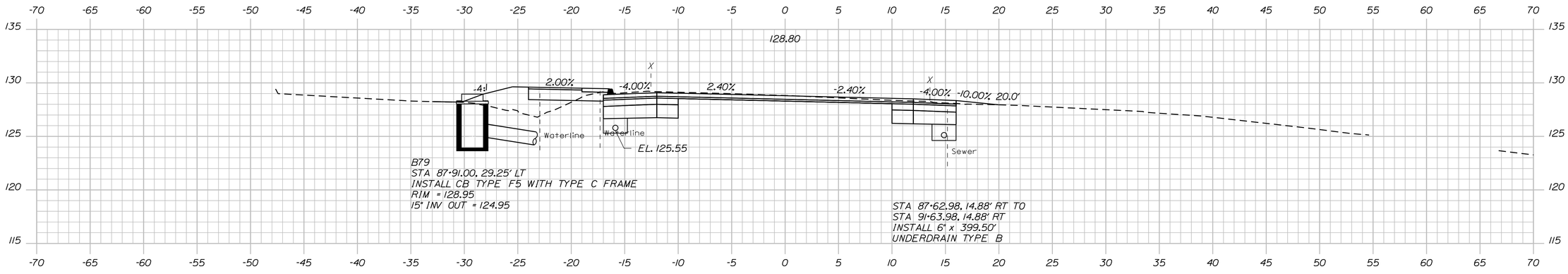
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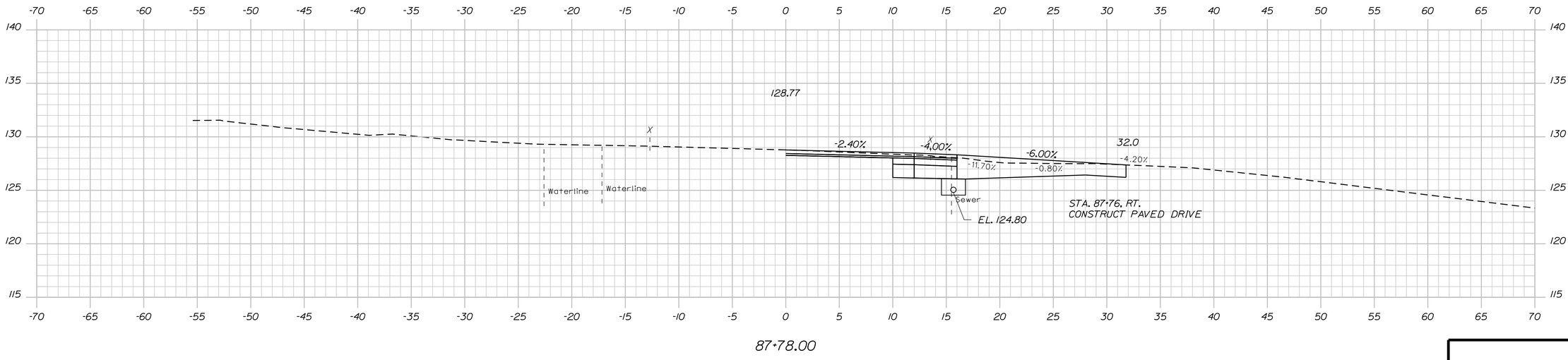
155

OF 213

Sta. 87+50.53 to Sta. 87+68.00







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

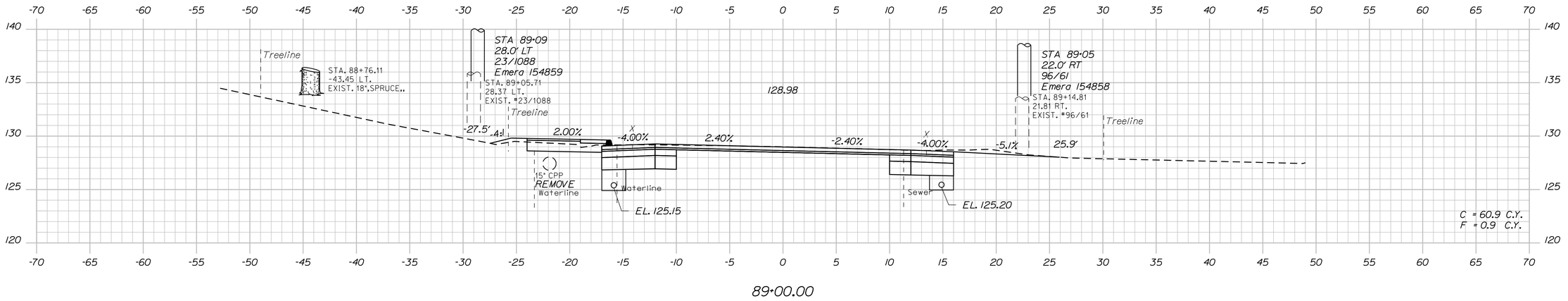
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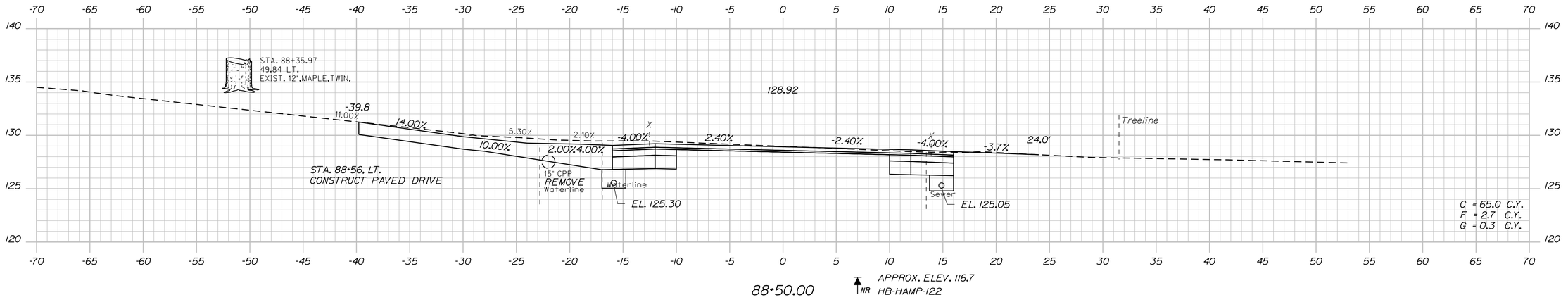
T.Y.LIN INTERNATIONAL

SHEET NUMBER
156
OF 213

Sta. 87+78.00 to Sta. 88+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

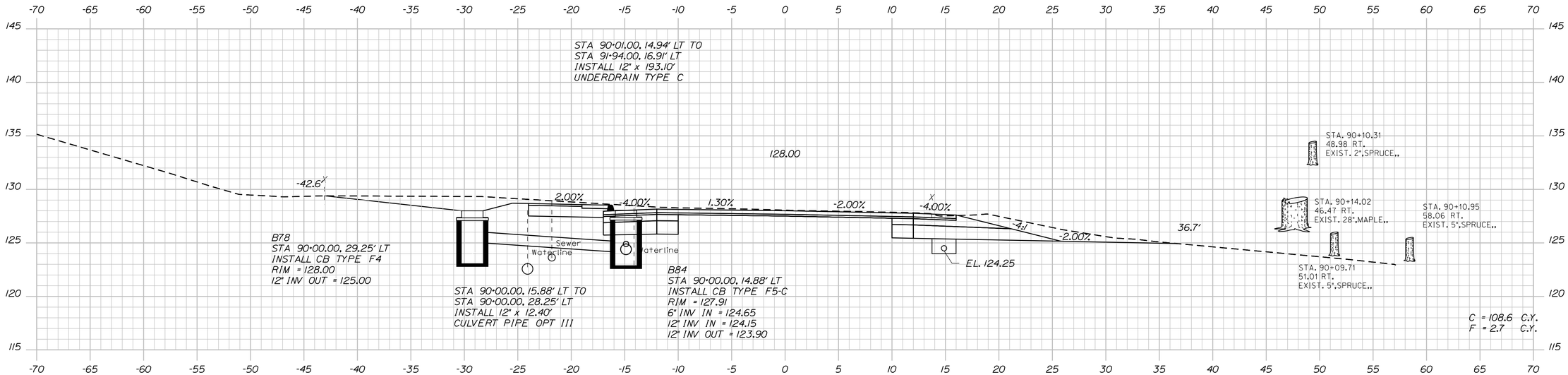
157

OF 213

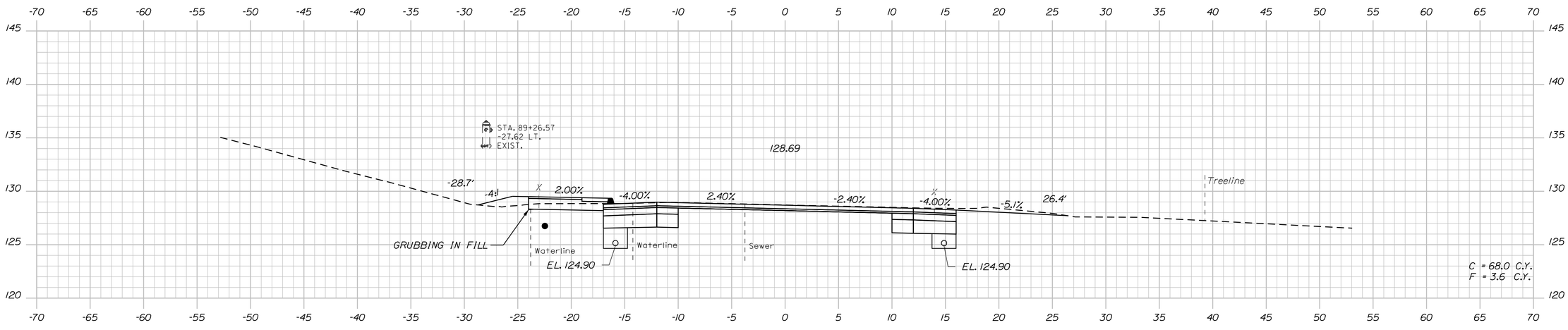
T-Y LIN INTERNATIONAL

Sta. 88+50.00 to Sta. 89+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



90+00.00



89+50.00

Sta. 89+50.00 to Sta. 90+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T·Y·LIN INTERNATIONAL

SHEET NUMBER

158

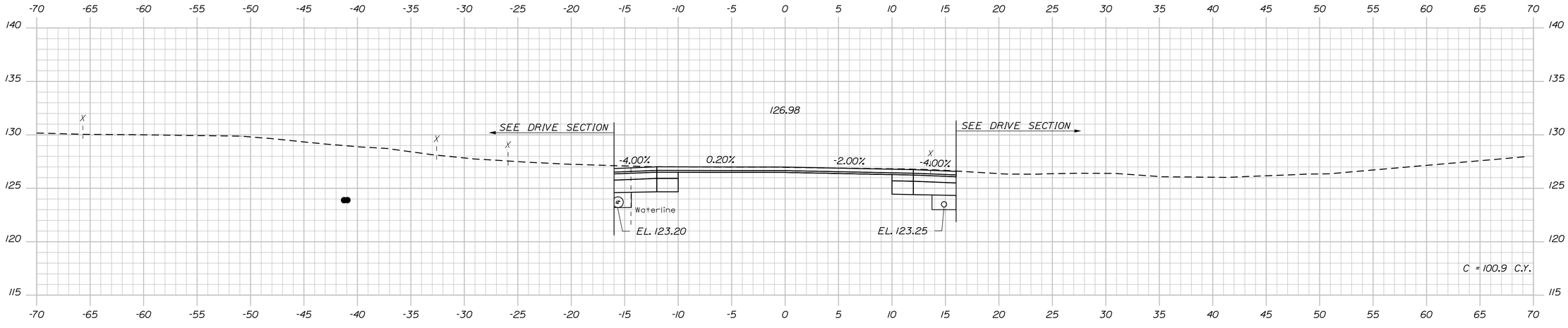
OF 213

Date:3/7/2019

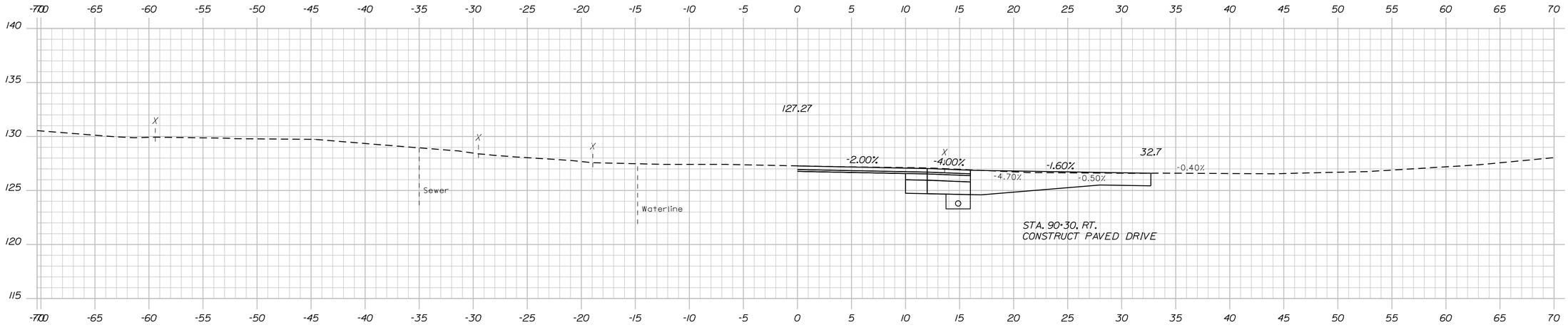
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Division: HIGHWAY

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn



90+50.00



90+36.00

Sta. 90+36.00 to Sta. 90+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

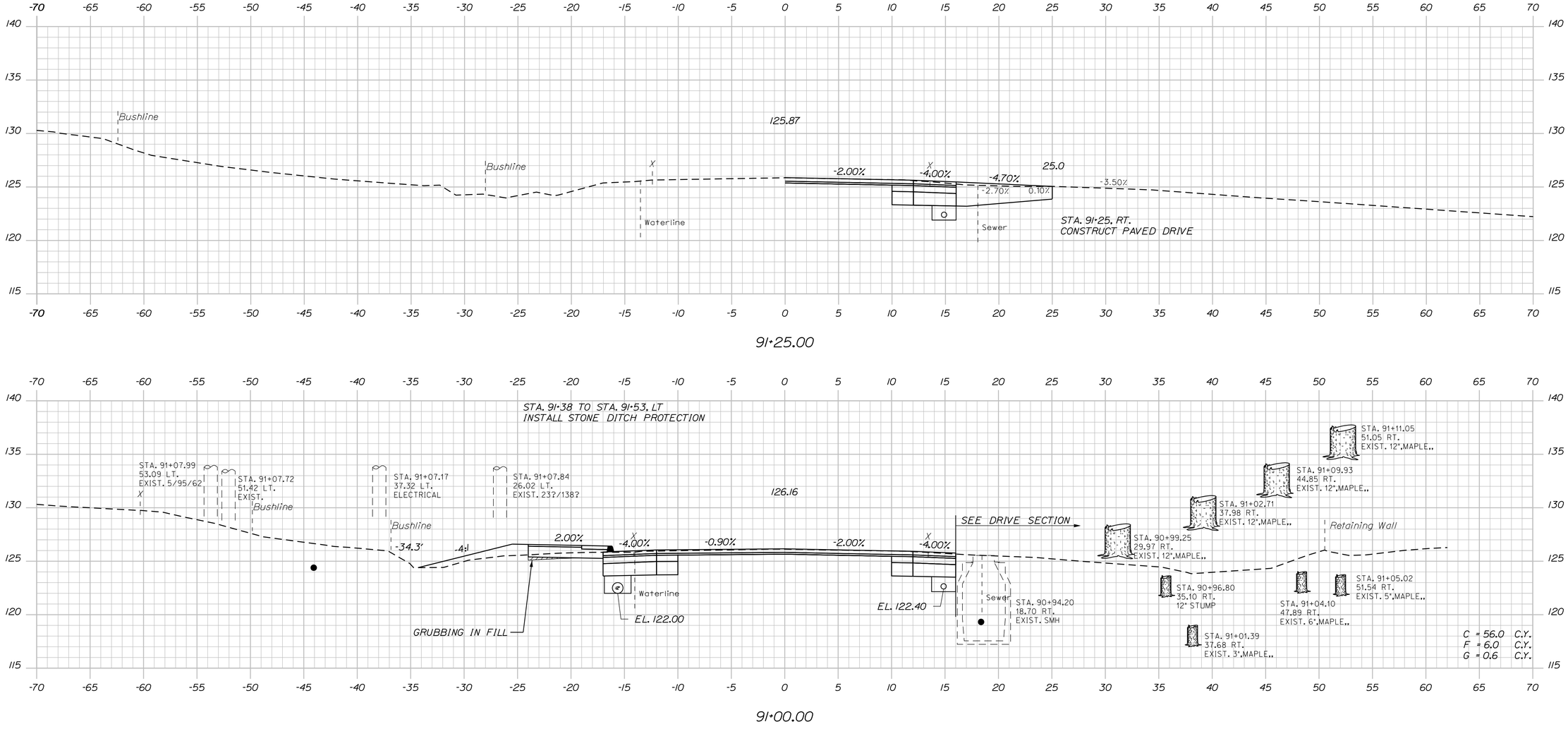
159

OF 213

TYLININTERNATIONAL

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2		KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

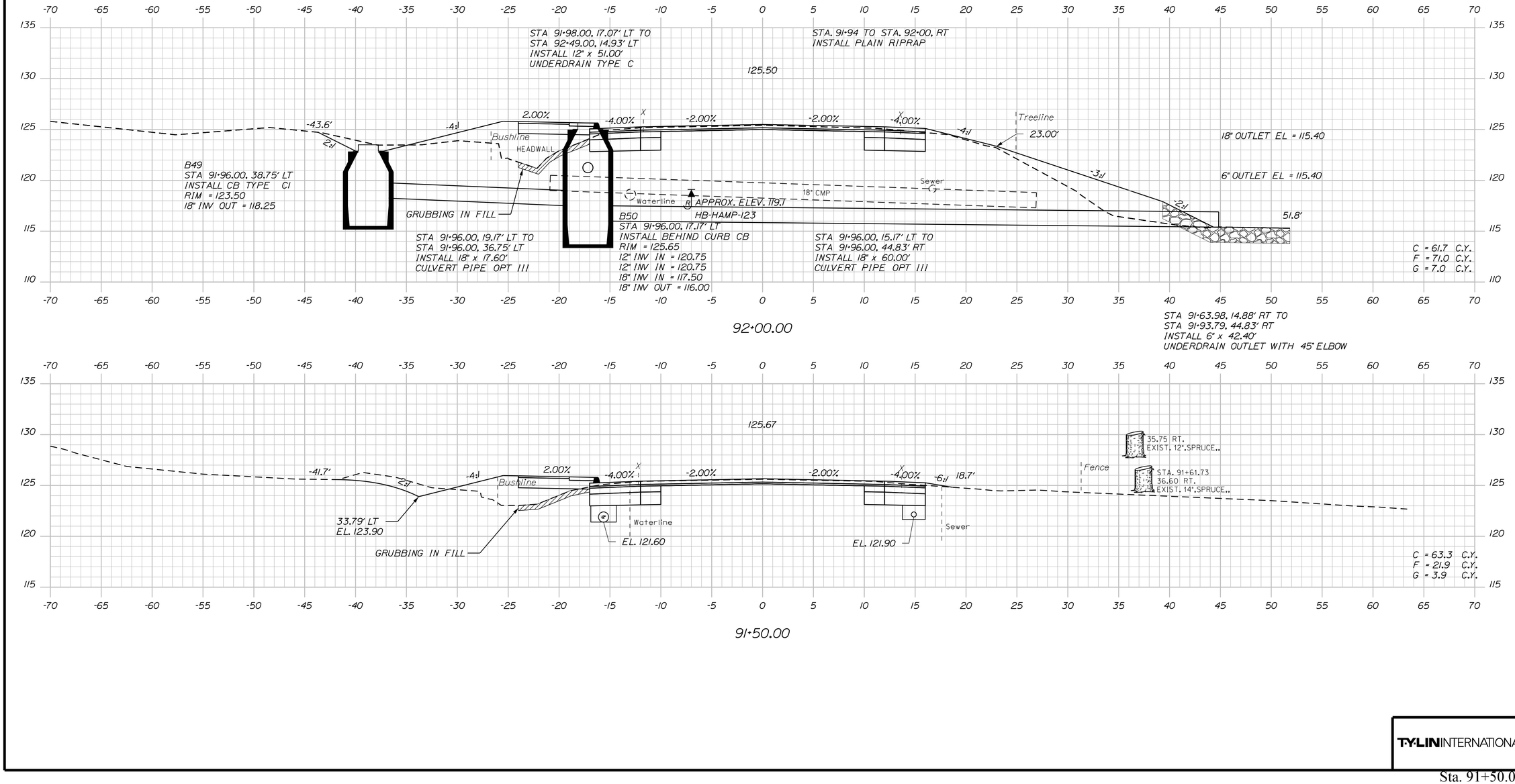
TYLININTERNATIONAL

SHEET NUMBER

160

OF 213

Sta. 91+00.00 to Sta. 91+25.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

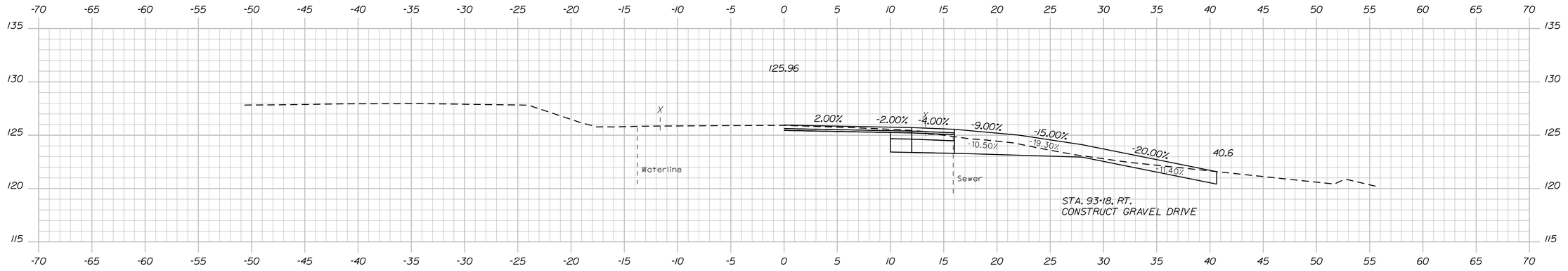
161

OF 213

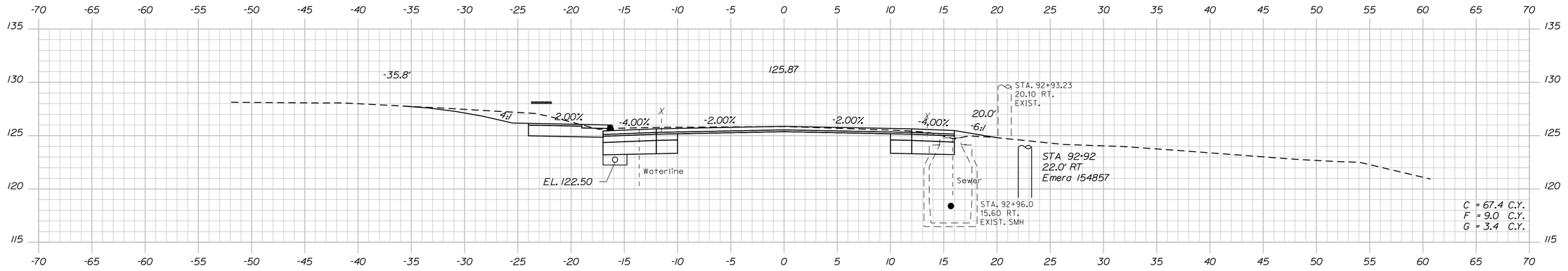
T.Y.LIN INTERNATIONAL

Sta. 91+50.00 to Sta. 92+00.00

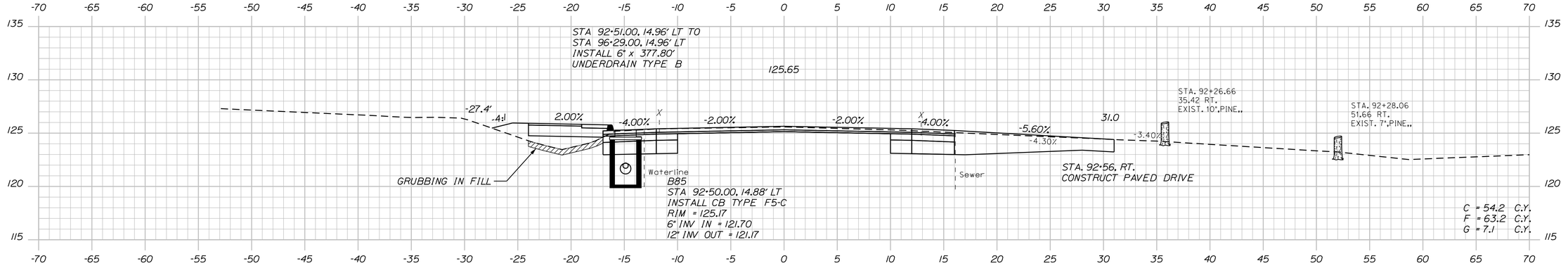
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93+18.00



93+00.00



92+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2		ED2	
DESIGN3-DETAILED3		ED3	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T-Y LIN INTERNATIONAL

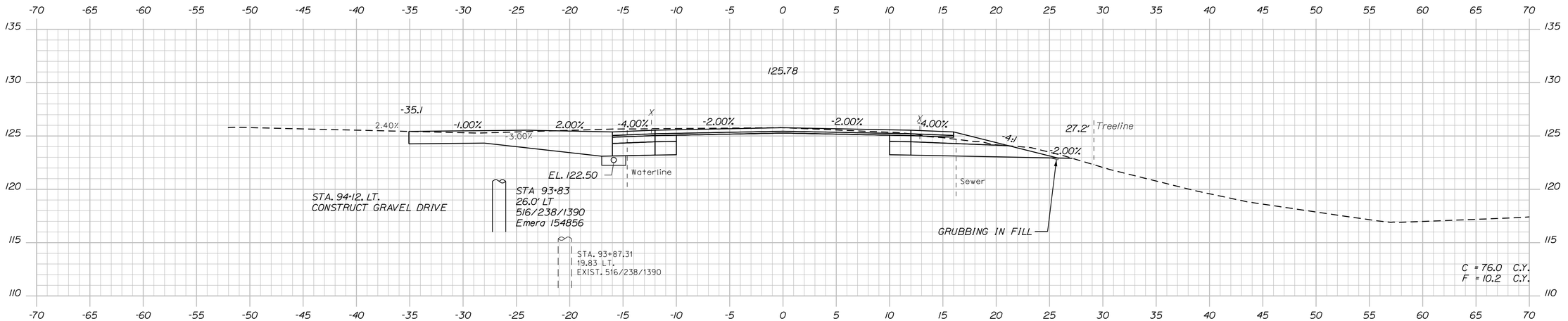
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162

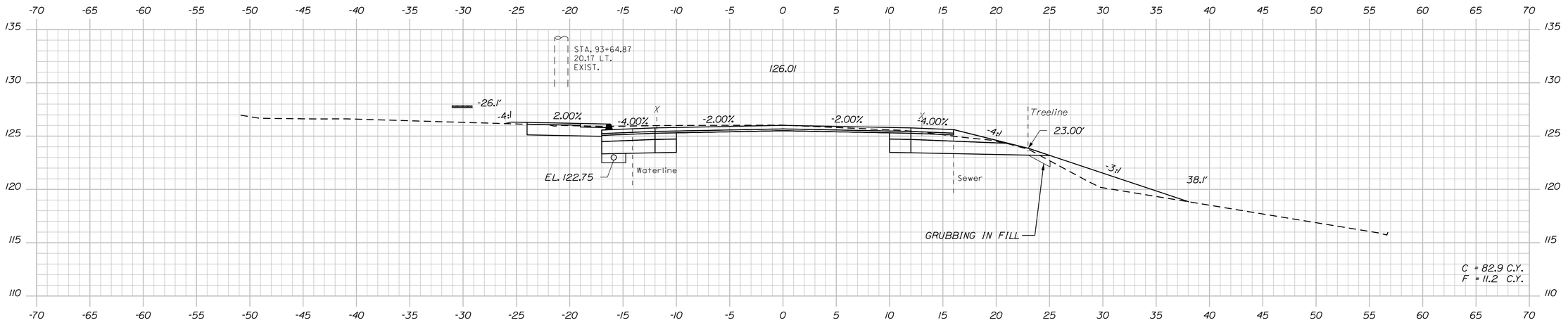
OF 213

Sta. 92+50.00 to Sta. 93+18.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



94+00.00



93+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2		KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T·Y·LIN INTERNATIONAL

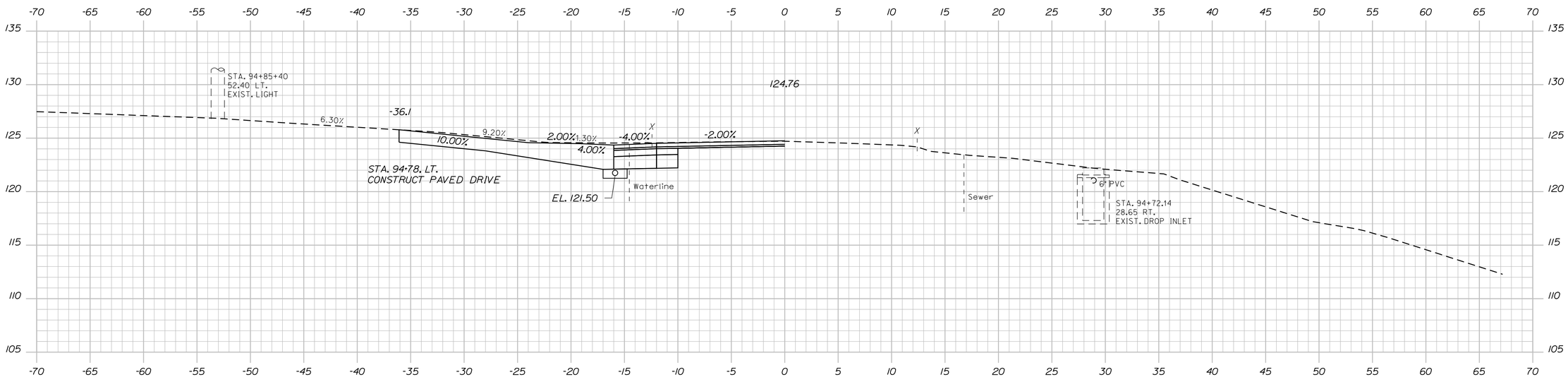
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163

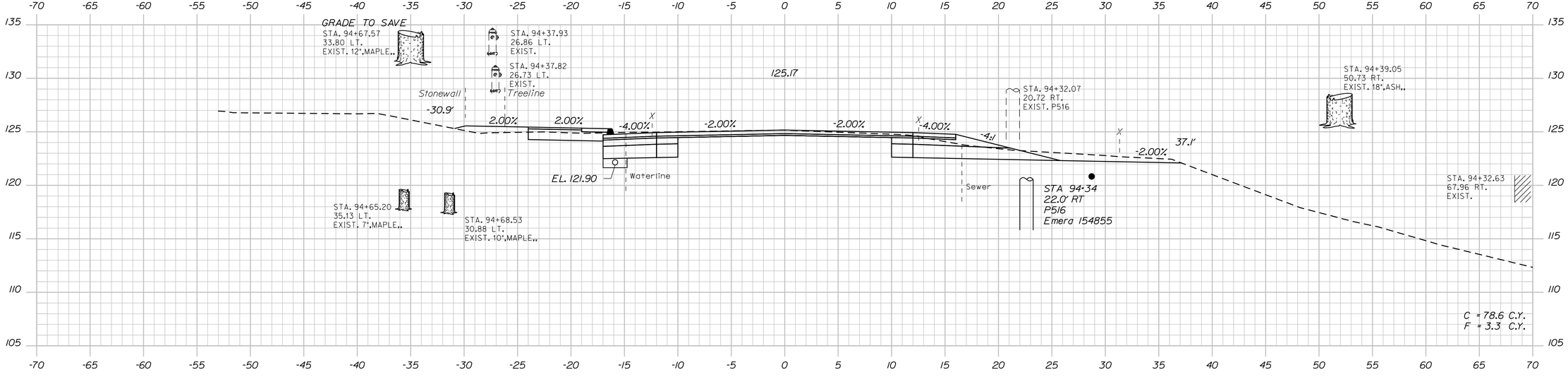
OF 213

Sta. 93+50.00 to Sta. 94+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



94+73.00



94+50.00

Sta. 94+50.00 to Sta. 94+73.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

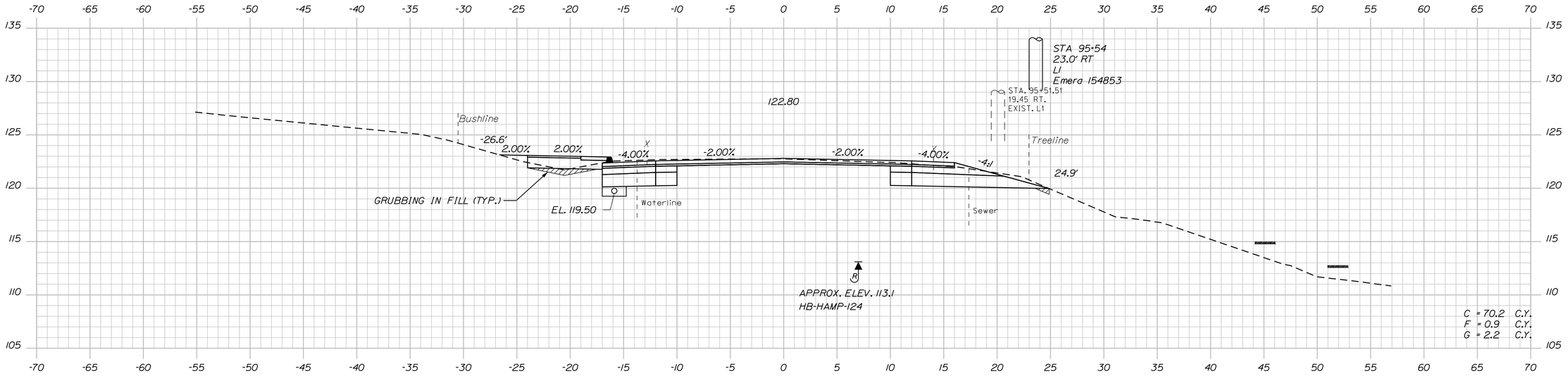
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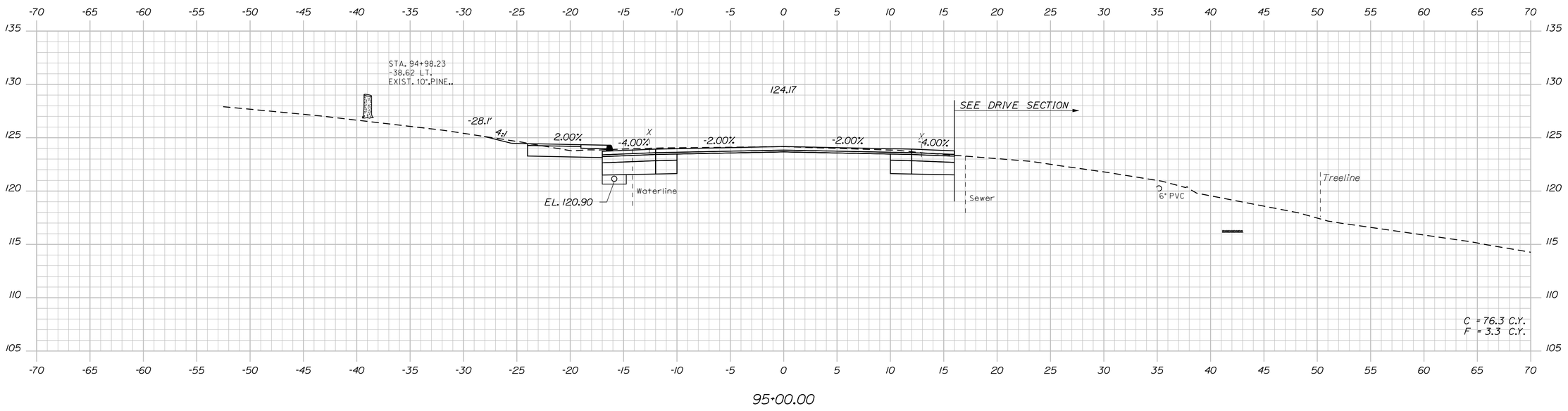
164

OF 213

TYLIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3	TSK	
REVISIONS 4	KSD	
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

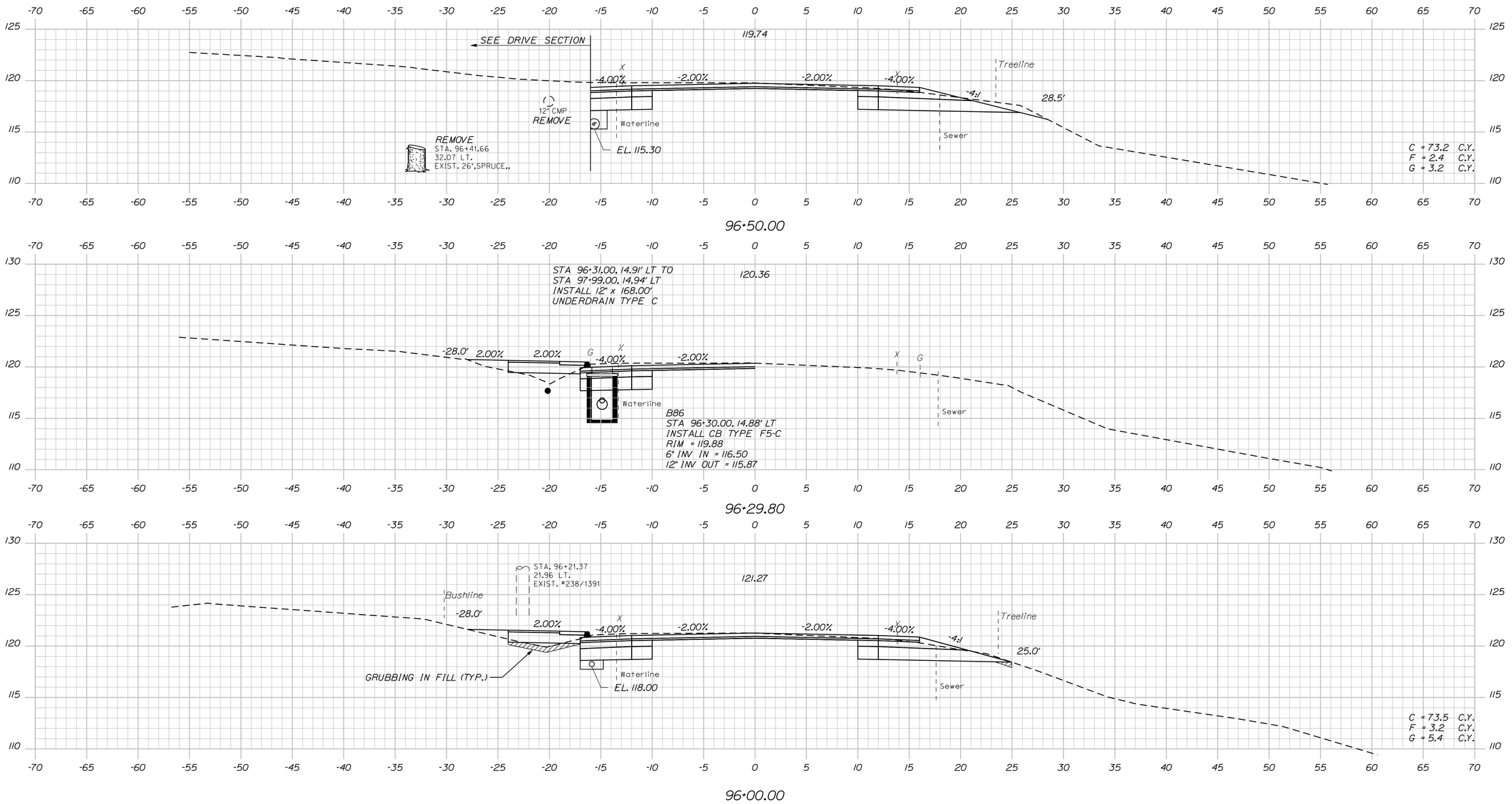
165

OF 213

T·Y·LIN INTERNATIONAL

Sta. 95+00.00 to Sta. 95+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

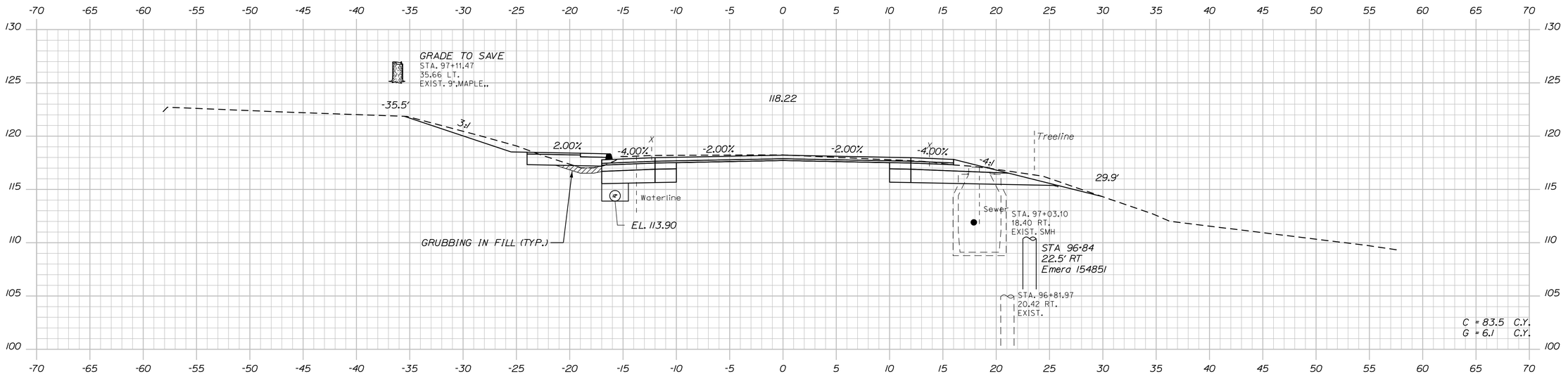
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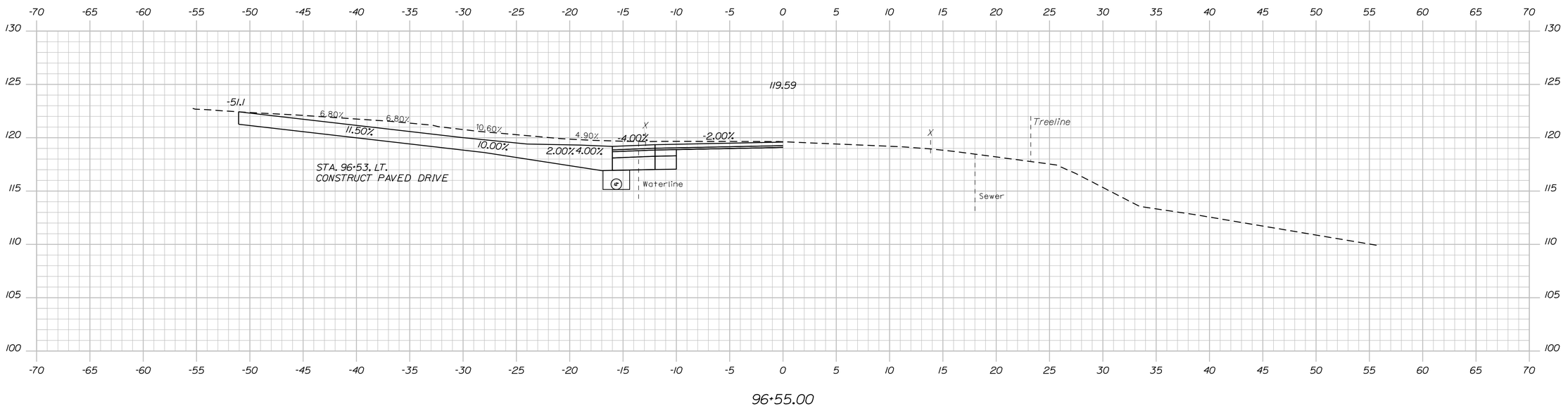
OF 213

T·Y·LIN INTERNATIONAL

Sta. 96+00.00 to Sta. 96+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

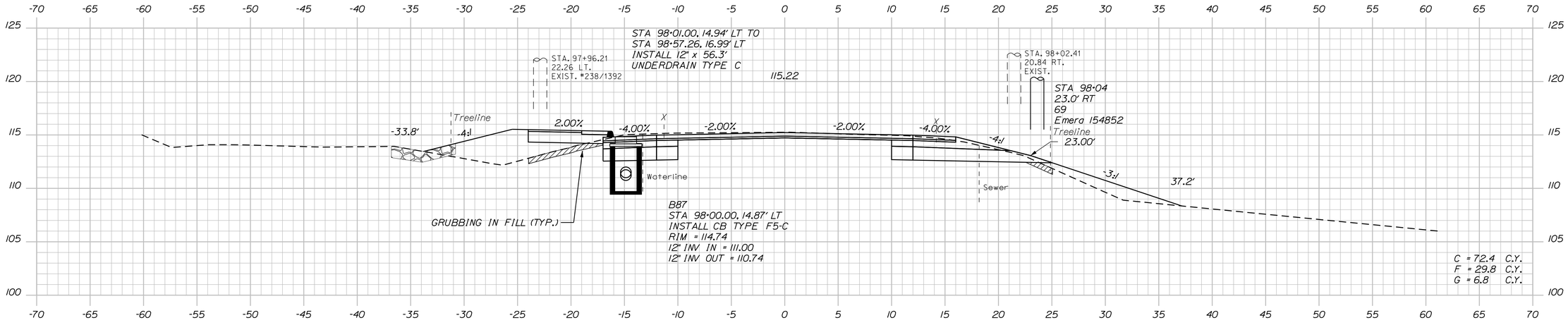
167

OF 213

TYLIN INTERNATIONAL

Sta. 96+55.00 to Sta. 97+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

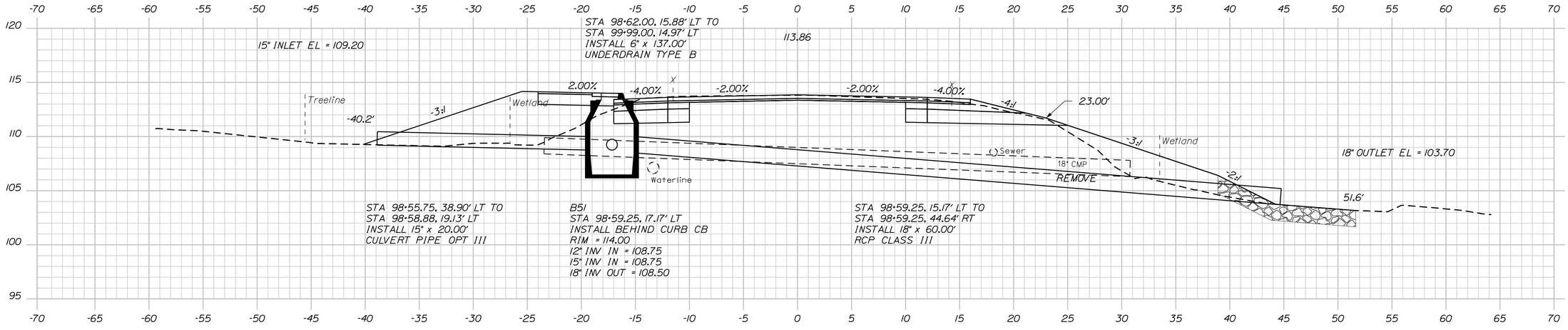
168

OF 213

TYLIN INTERNATIONAL

Sta. 97+50.00 to Sta. 98+00.00

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

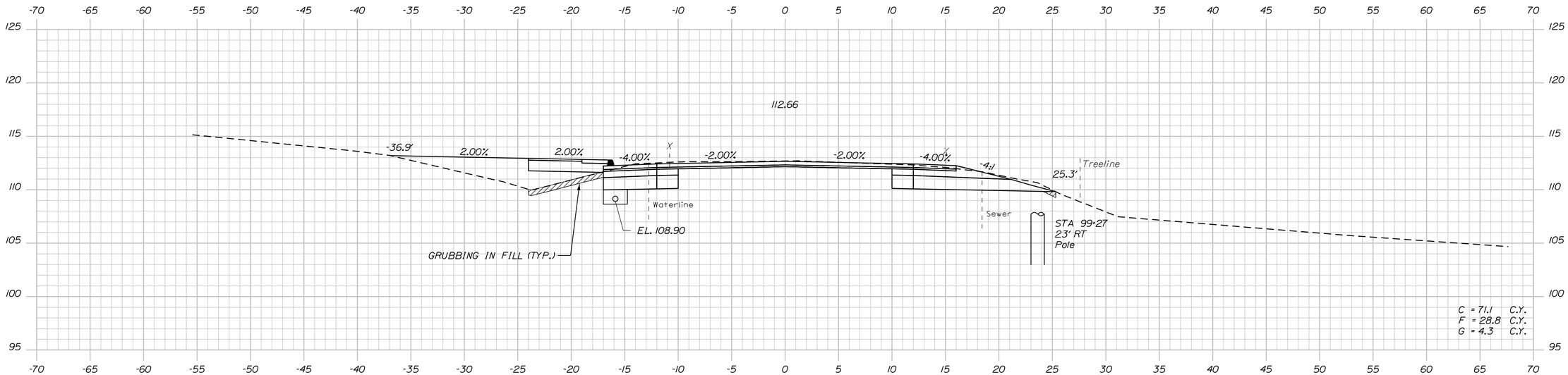
169

OF 213

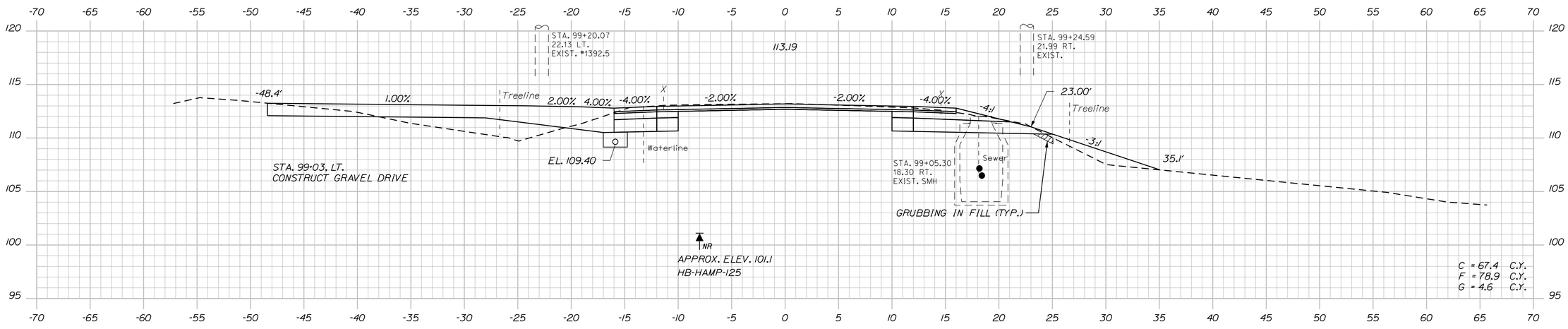
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Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Sta. 98+50.00 to Sta. 98+59.48



99+50.00



99+00.00

Sta. 99+00.00 to Sta. 99+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

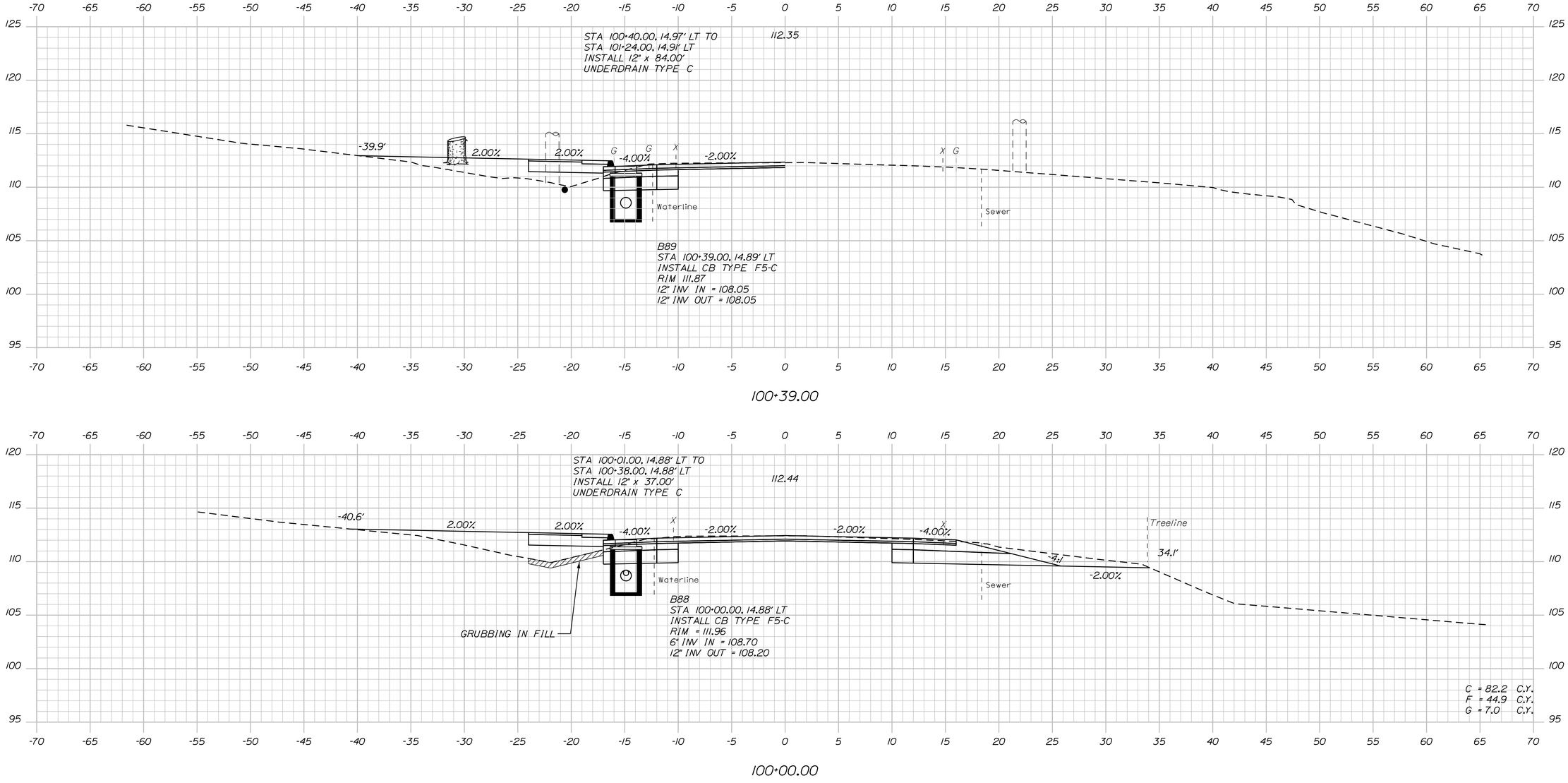
170

OF 213

T.Y.LIN INTERNATIONAL

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Username: Division: HIGHWAY Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

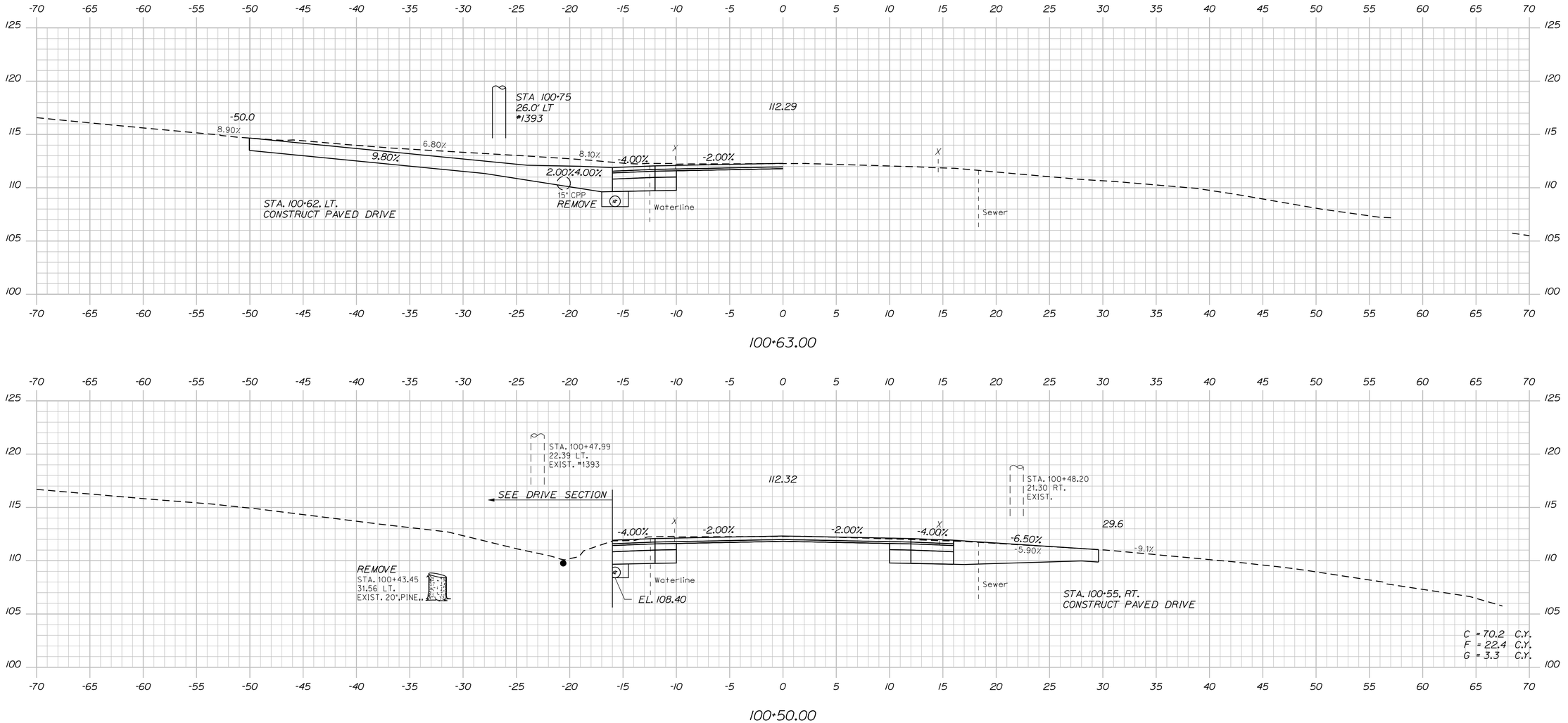
T·Y·LIN INTERNATIONAL

SHEET NUMBER

171

OF 213

Sta. 100+00.00 to Sta. 100+39.00



Sta. 100+50.00 to Sta. 100+63.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED		TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2	JRH		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

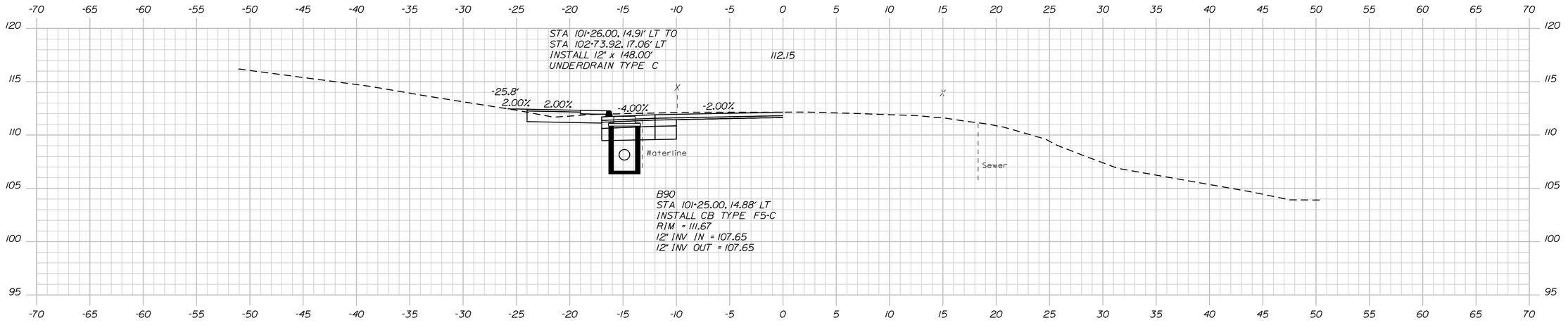
SHEET NUMBER

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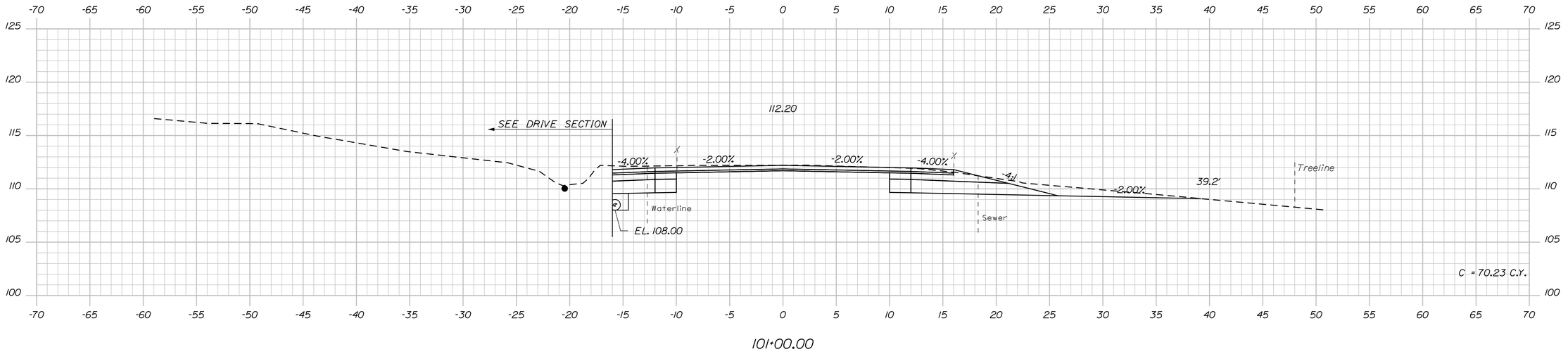
OF 213

T·Y·LIN INTERNATIONAL

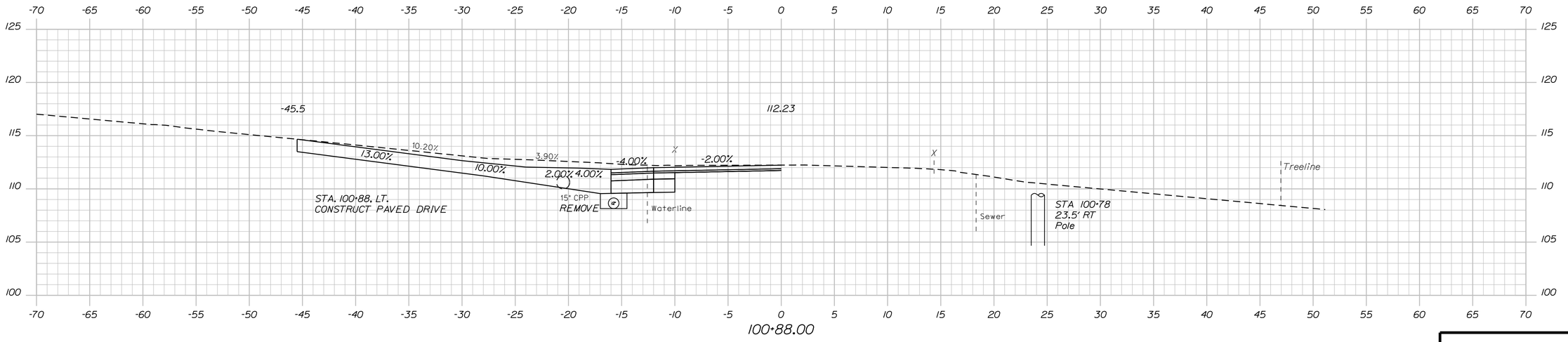
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101+25.00



101+00.00



100+88.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

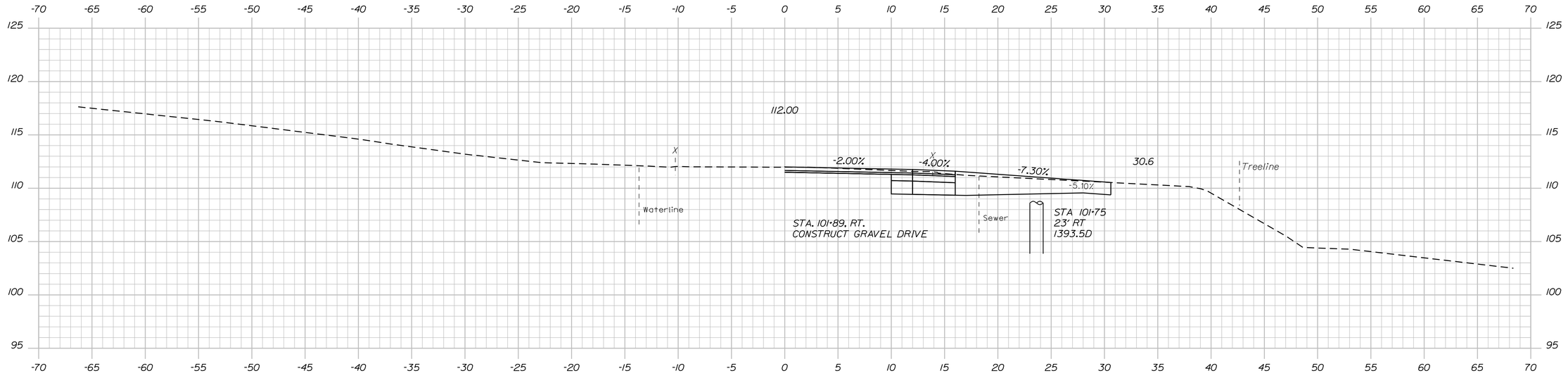
173

OF 213

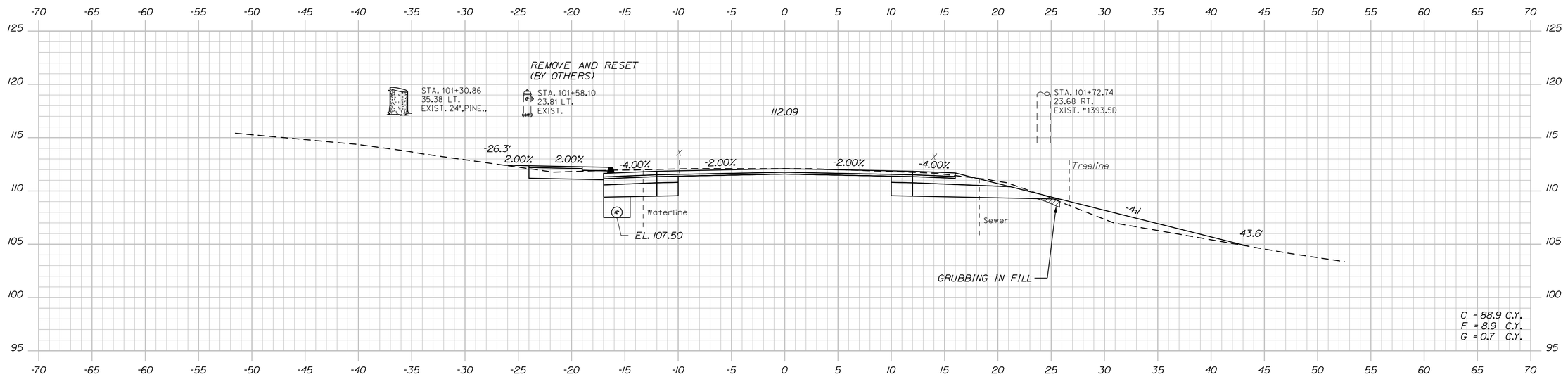
T·Y·LIN INTERNATIONAL

Sta. 100+88.00 to Sta. 101+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



101+88.00



101+50.00

Sta. 101+50.00 to Sta. 101+88.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

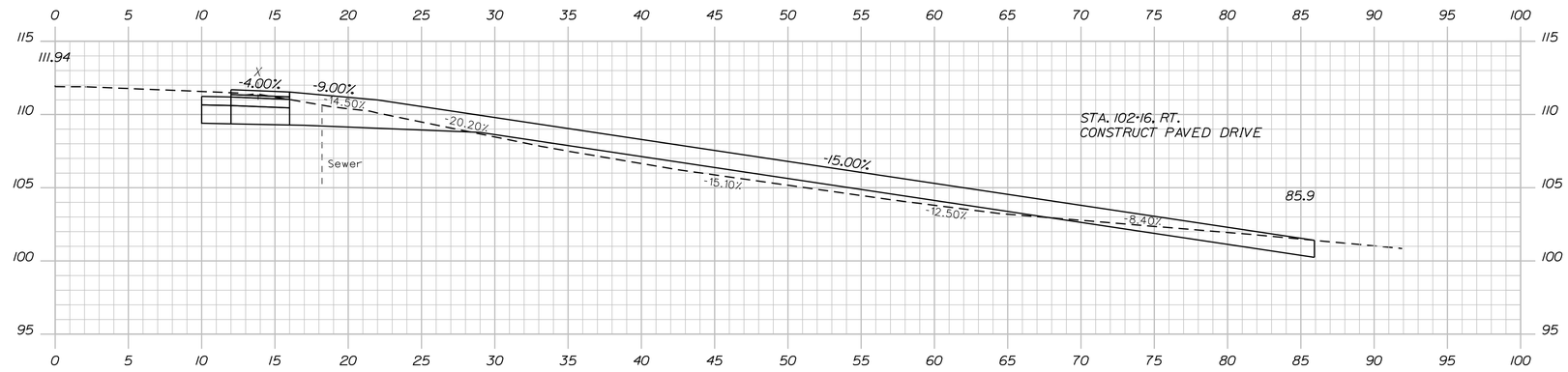
T-Y LIN INTERNATIONAL

SHEET NUMBER

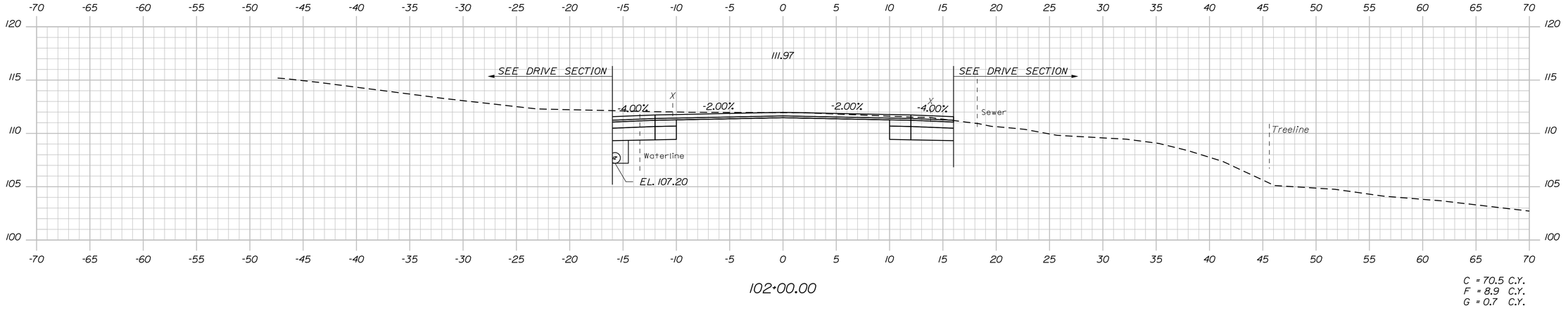
174

OF 213

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

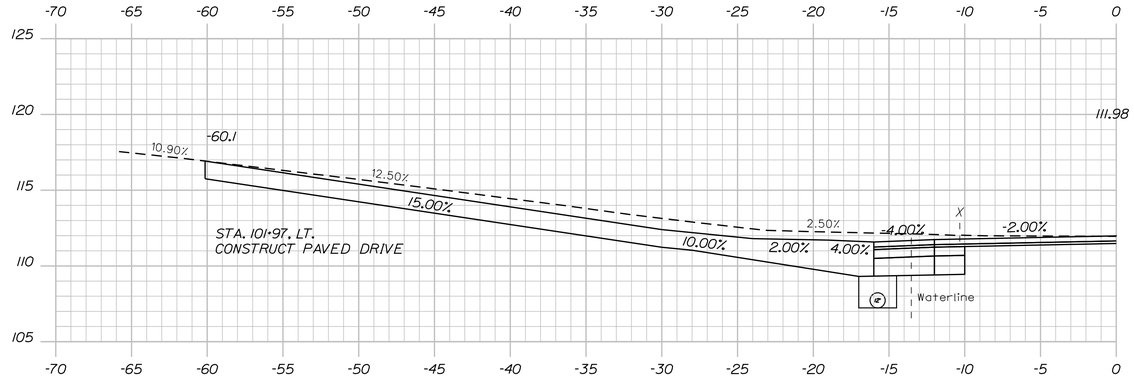


102+18.50



102+00.00

C = 70.5 C.Y.
F = 8.9 C.Y.
G = 0.7 C.Y.



101+95.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	TSK 12/17
CHECKED-REVIEWED	JRH	KSD 12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

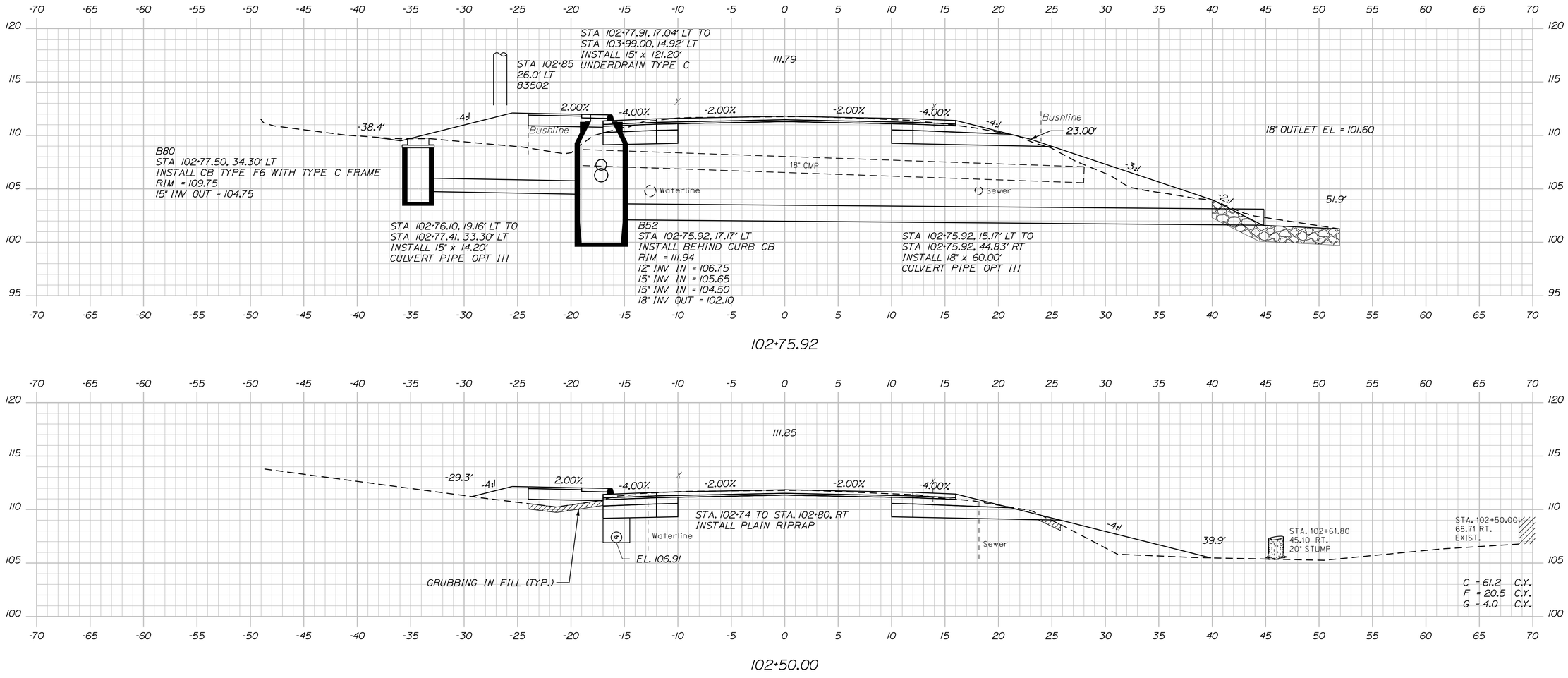
175

OF 213

T.Y.LIN INTERNATIONAL

Sta. 102+00.00 to Sta. 102+13.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

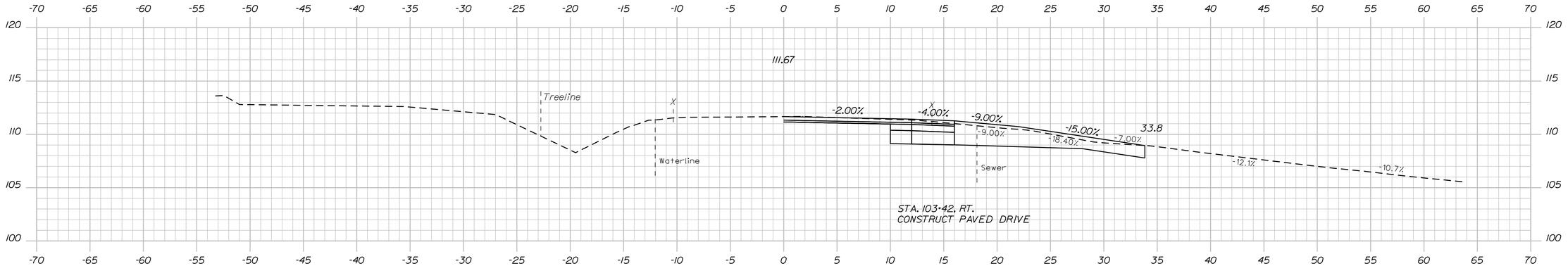
176

OF 213

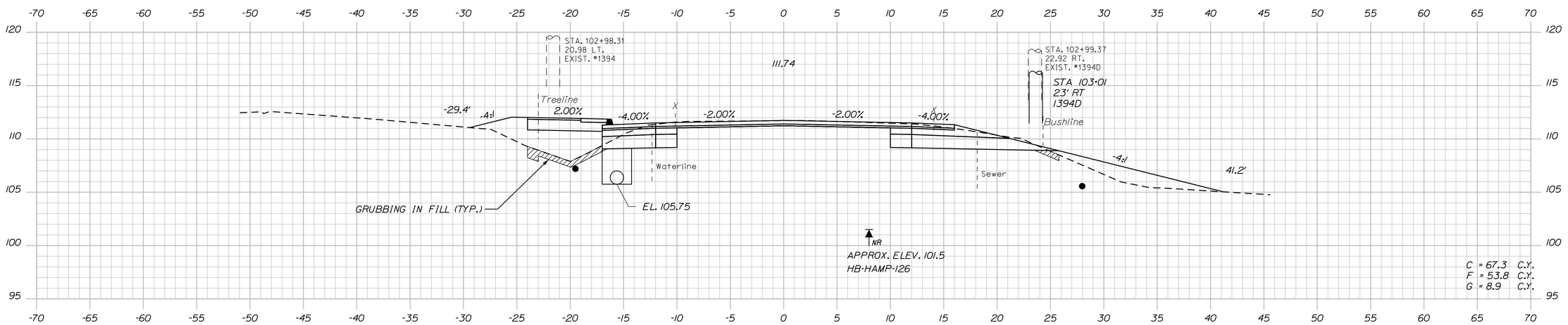
T-Y LIN INTERNATIONAL

Sta. 102+50.00 to Sta. 102+75.92

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



103+30.00



103+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T·Y·LIN INTERNATIONAL

SHEET NUMBER

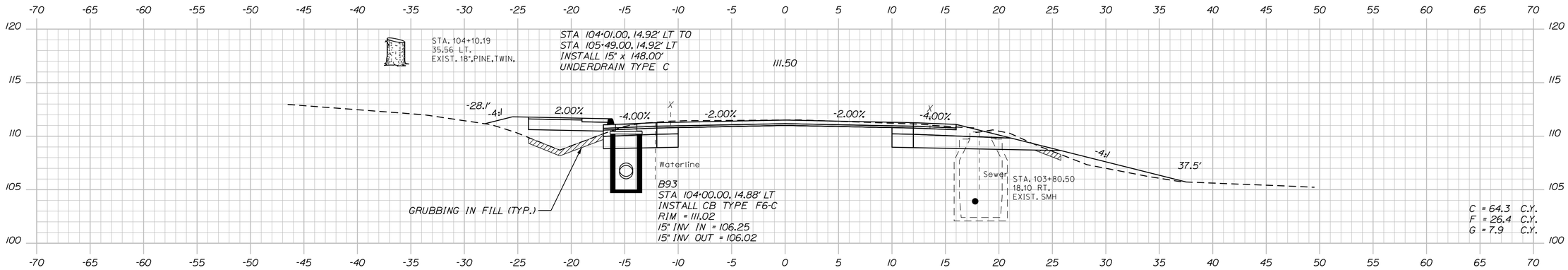
177

OF 213

Sta. 103+00.00 to Sta. 103+30.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Date:3/7/2019
Username:
Division: HIGHWAY
Filename: ...\HIGHWAY\MSTA\030_XSections.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	TSK
CHECKED-REVIEWED	JRH		KSD
DESIGN2-DETAILED2		ED2	
DESIGN3-DETAILED3		ED3	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

	DATE
BY	12/17
	12/17

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

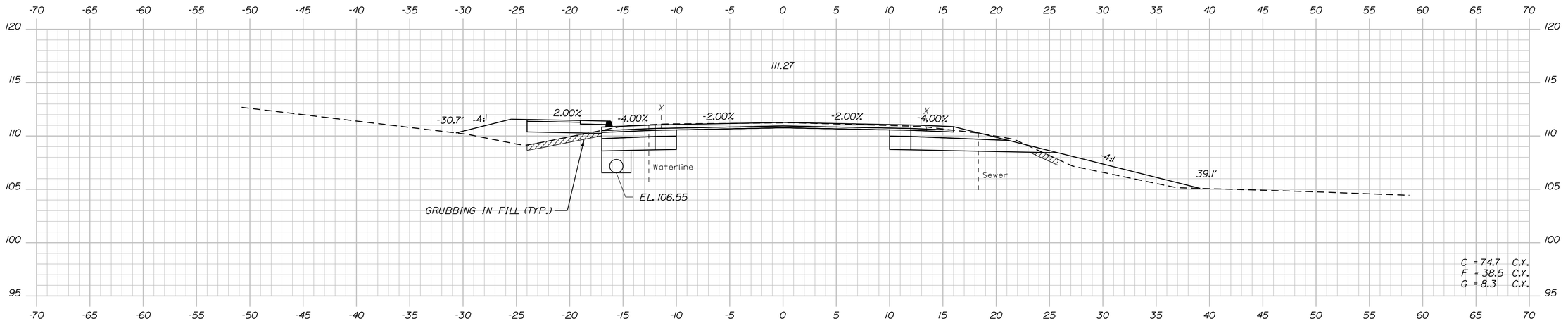
T.Y.LIN INTERNATIONAL

SHEET NUMBER

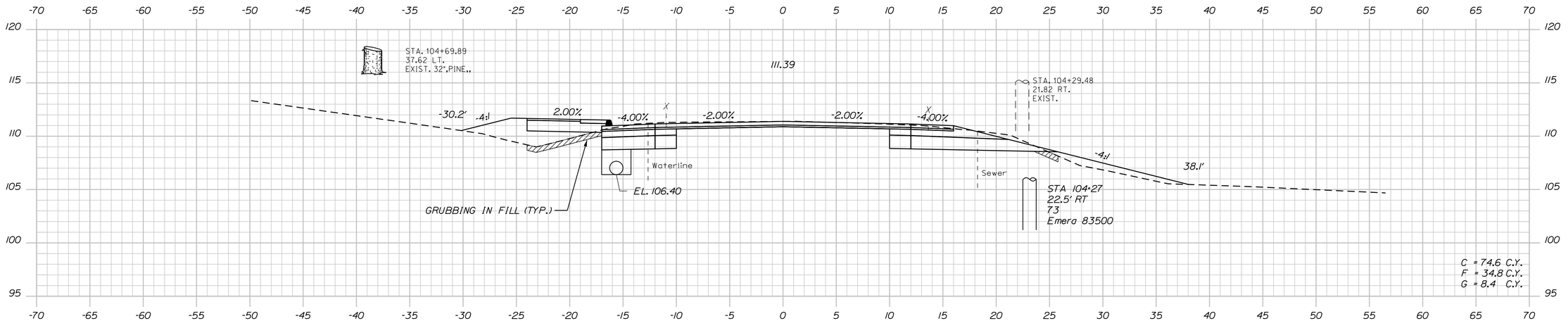
178

OF 213

Sta. 103+50.00 to Sta. 104+00.00



105+00.00



104+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T-Y LIN INTERNATIONAL

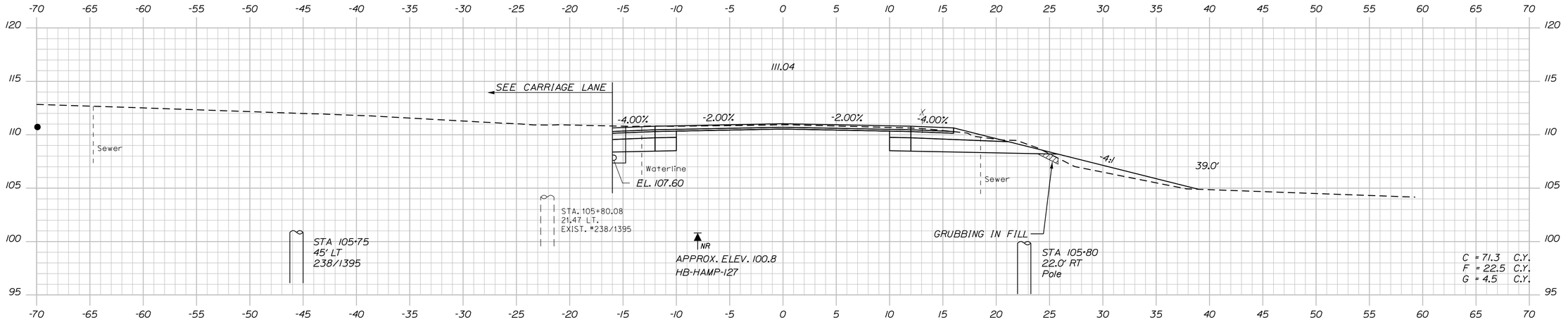
SHEET NUMBER

179

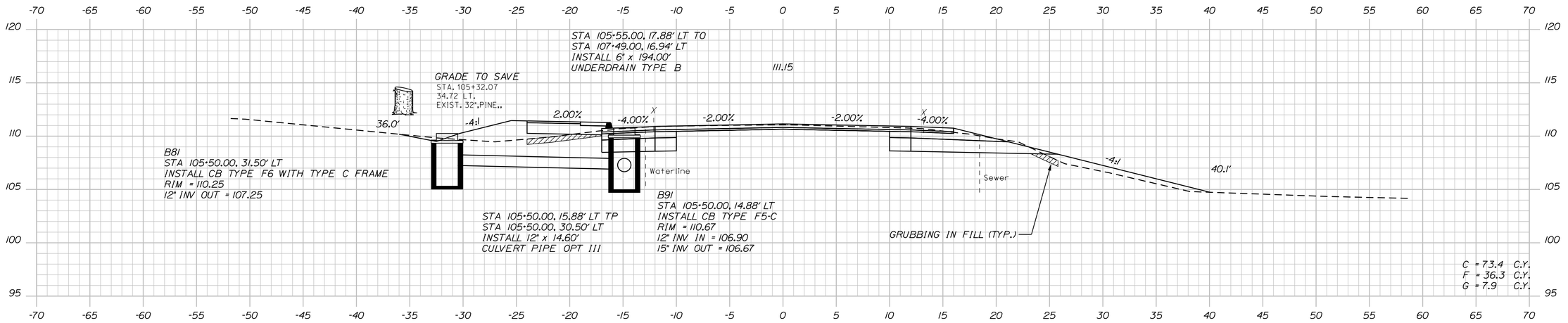
OF 213

Sta. 104+50.00 to Sta. 105+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



106+00.00



105+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

T-Y LIN INTERNATIONAL

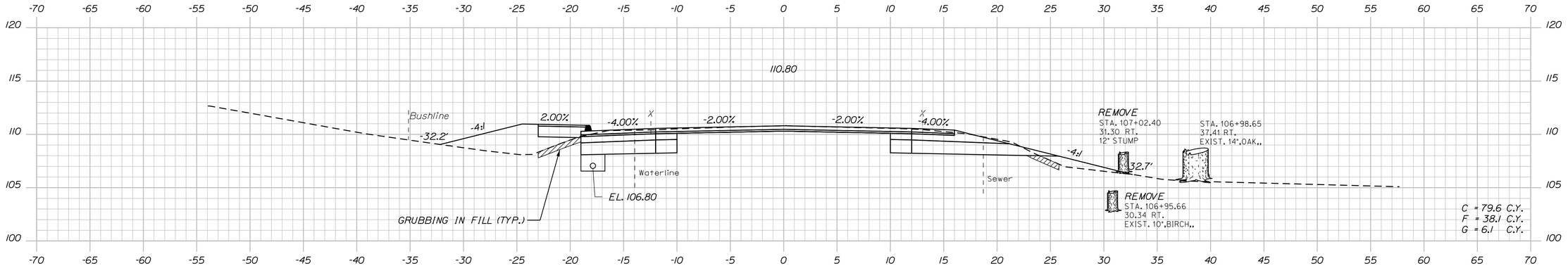
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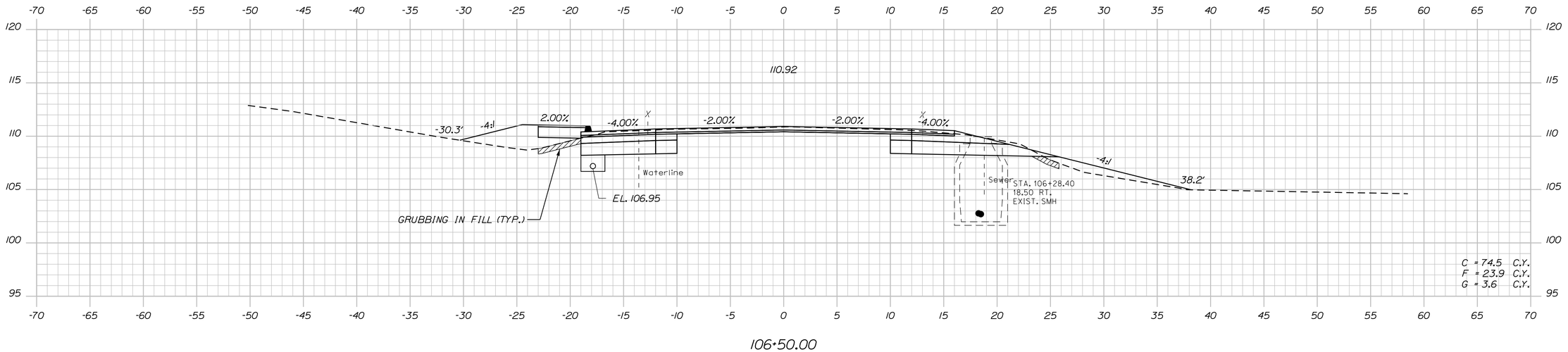
OF 213

Sta. 105+50.00 to Sta. 106+00.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



107+00.00



106+50.00

Sta. 106+50.00 to Sta. 107+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

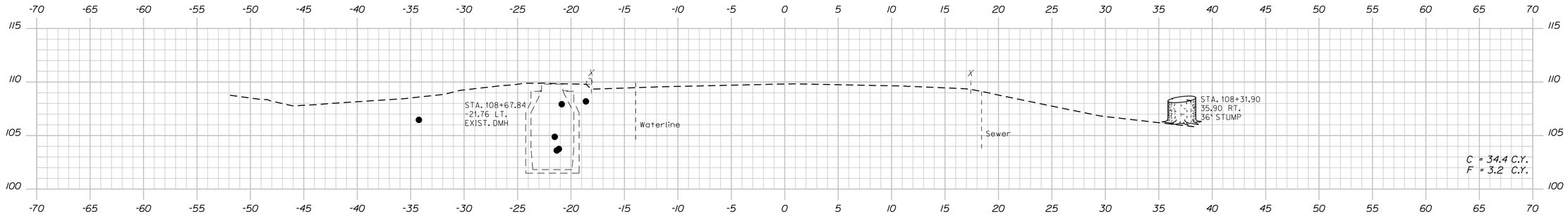
T-Y LIN INTERNATIONAL

SHEET NUMBER

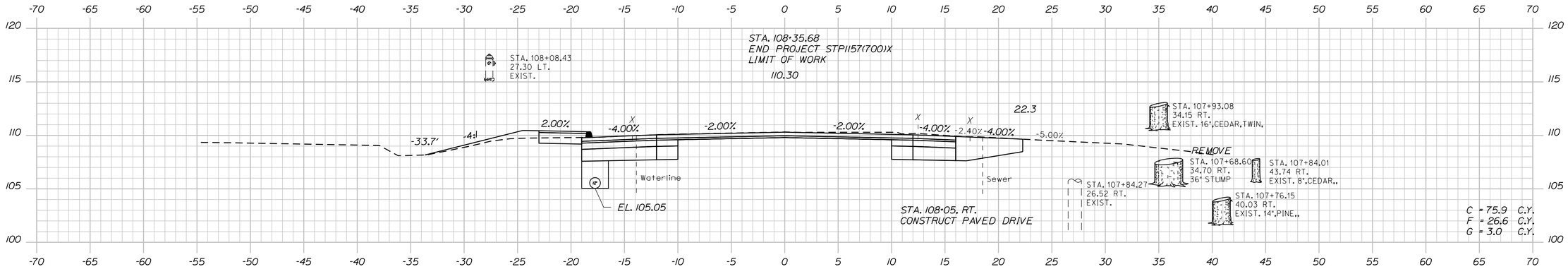
181

OF 213

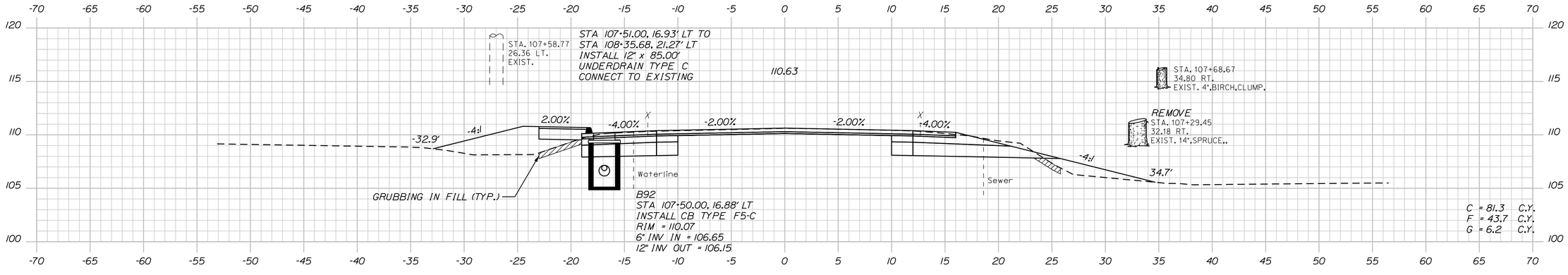
Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019



108+50.00



108+00.00



107+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS

SHEET NUMBER

182

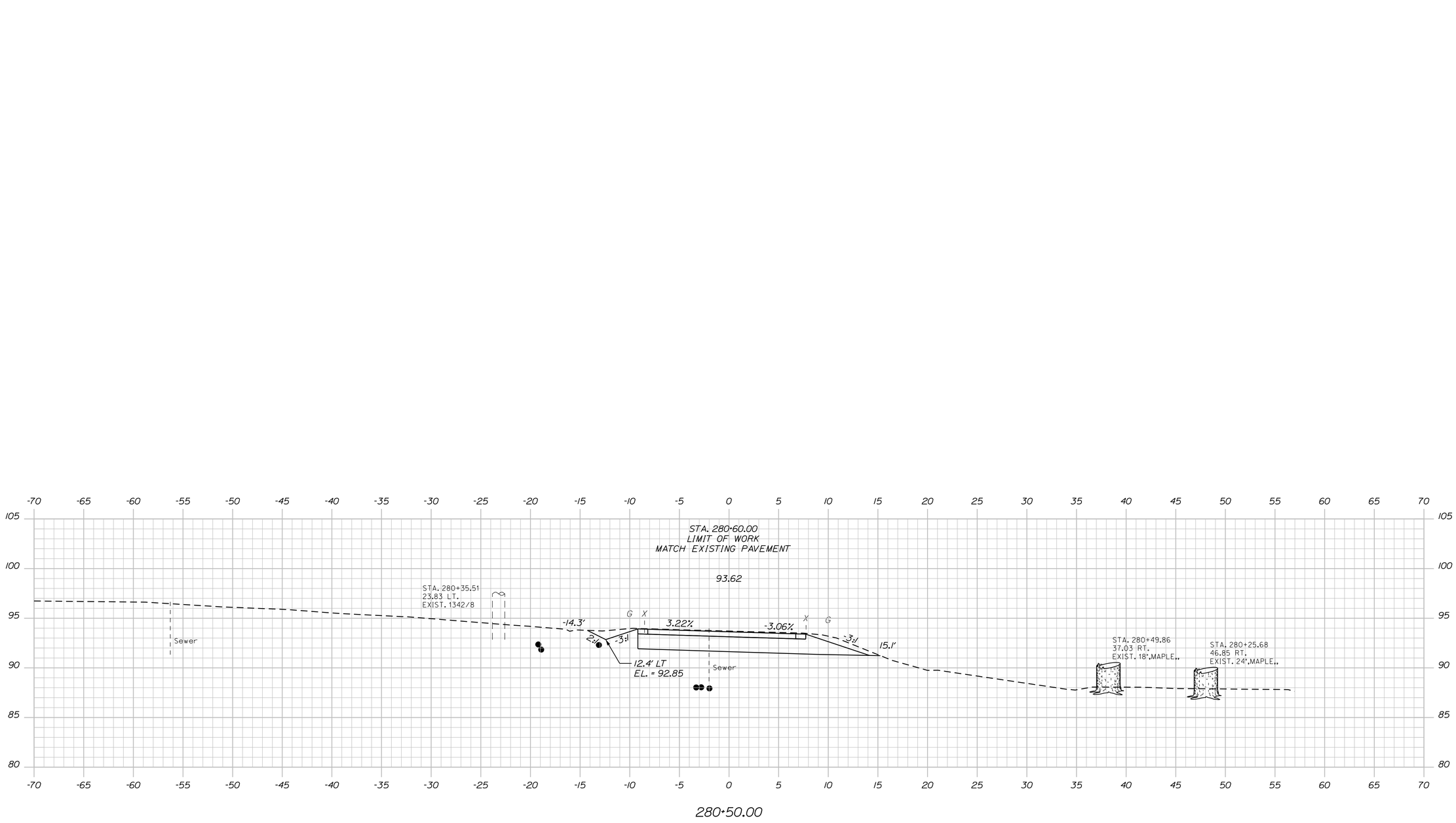
OF 213

T.Y.LIN INTERNATIONAL

Sta. 107+50.00 to Sta. 108+50.00

Filename: ...\HIGHWAY\MSTA\030_XSections.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019



PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2		KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
ELM STREET WEST

SIGNATURE

P.E. NUMBER

DATE

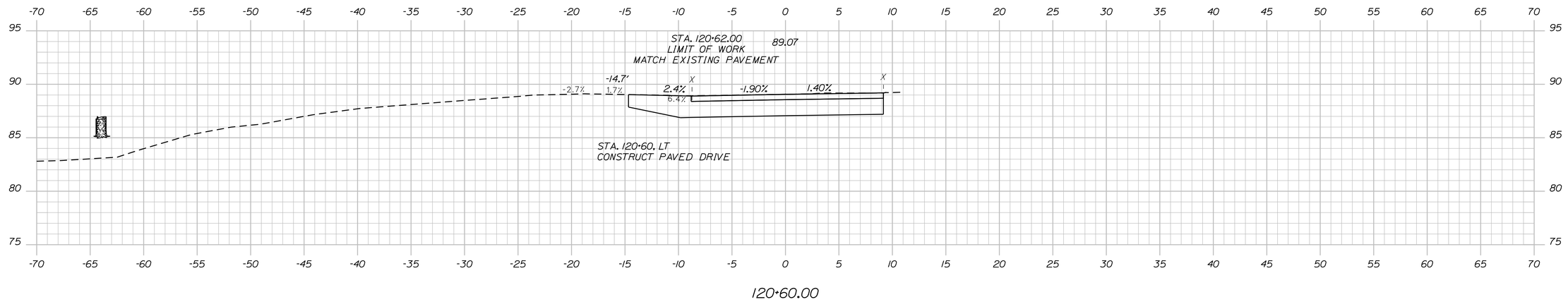
T·Y·LIN INTERNATIONAL

SHEET NUMBER

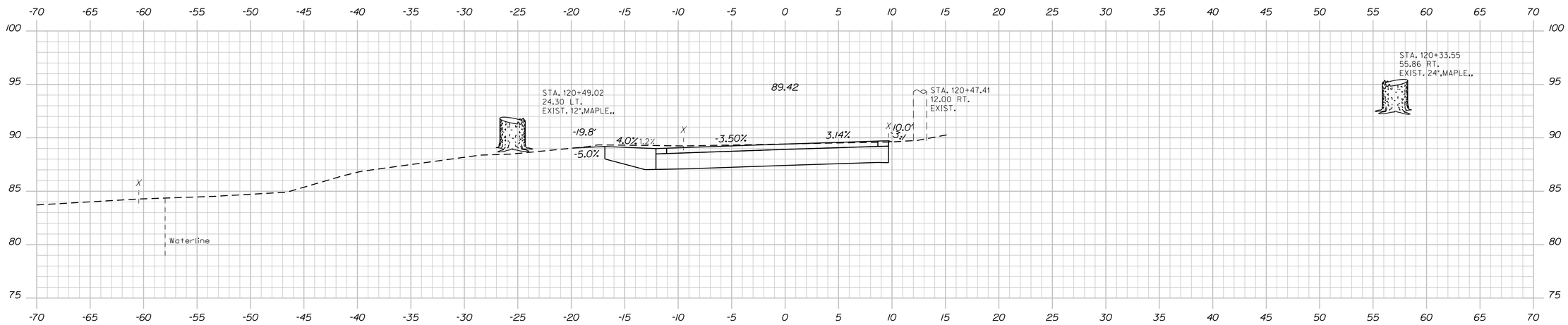
183

OF 213

Sta. 280+50.00 to Sta. 280+50.00



120+60.00



120+50.00

Sta. 120+50.00 to Sta. 120+60.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	PROJ. MANAGER	R. MOULTON
	DESIGN-DETAILED	JRH
	CHECKED-REVIEWED	JRH
	DESIGN2-DETAILED2	
	DESIGN3-DETAILED3	
	REVISIONS 1	
	REVISIONS 2	
	REVISIONS 3	
	REVISIONS 4	
	FIELD CHANGES	

	BY	DATE
	TSK	12/17
	KSD	12/17

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
ELM STREET EAST

T·Y·LIN INTERNATIONAL

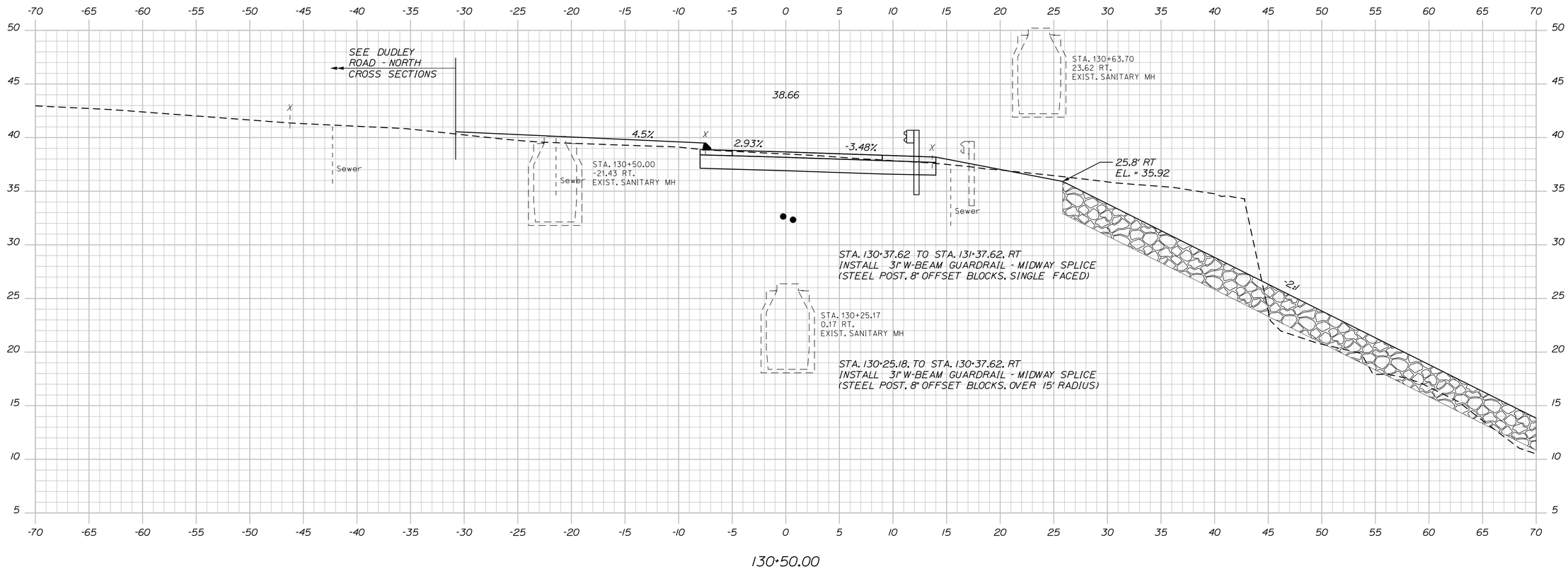
SHEET NUMBER

184

OF 213

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019



Sta. 130+50.00 to Sta. 130+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
DUDLEY ROAD

T.Y.LIN INTERNATIONAL

SHEET NUMBER

185

OF 213

Filename: ...\MSTA\031_XSections_Side Rd.dgn Username: Division: HIGHWAY Date:3/7/2019

STA. 131+05 TO STA. 131+19., RT
INSTALL PLAIN RIPRAP

STA. 131+20. TO STA. 131+43. LT
INSTALL PLAIN RIPRAP

-35.1

1.75:1

18" INLET EL = 34.31

-2:1

-3:1

STA. 131+37.62. TO STA. 131+52.4. RT
INSTALL 31" W-BEAM GUARDRAIL - MIDWAY SPLICE
(STEEL POST, 8" OFFSET BLOCKS, 15' RADIUS AND LESS)

18" OUTLET EL = 29.94

Waterline

STA 131+10.00, 31.30' RT TO
STA 131+31.18, 20.57' LT
INSTALL 18" x 56.00'
RCP CLASS III

Sewer

41.6'

131+24.68

SEE DUDLEY
ROAD - NORTH
CROSS SECTIONS

STA. 131+00.00
-10.08 RT.
EXIST. 6" CI

38.59

1.50%

-2.00%

-2:1

REMOVE
STA. 131+01.98
17.58 RT.
EXIST. 14" ELM.

18.3'

Waterline

Sewer

GRUBBING IN FILL

STA. 131+49.11. RT
INSTALL TERMINAL ENDS -SINGLE RAIL-GALVINIZED STEEL

C = 135.5 C.Y.
F = 15.5 C.Y.
G = 1.3 C.Y.

131+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH		
CHECKED-REVIEWED	JRH		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1	BY	TSK	DATE 12/17
REVISIONS 2	BY	KSD	DATE 12/17
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
DUDLEY ROAD

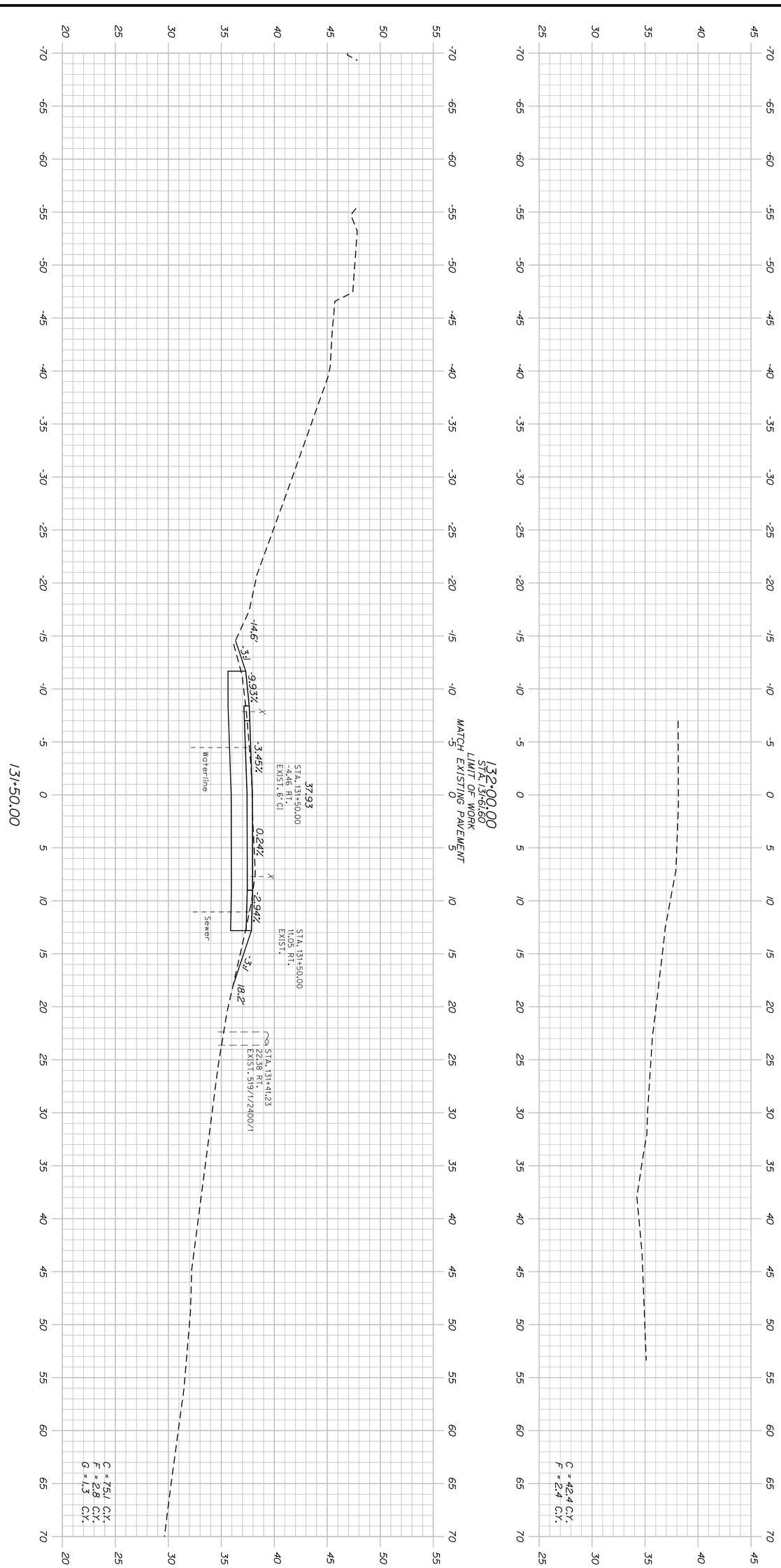
Sta. 131+00.00 to Sta. 131+24.68

T·Y·LIN INTERNATIONAL

SHEET NUMBER

186

OF 213



Sta. 131+50.00 to Sta. 132+00.00

TYLININTERNATIONAL

HAMPDEN
US ROUTE 1A
CROSS SECTIONS
DUDLEY ROAD

PROJ. MANAGER R. MOULTON	BY	DATE
DESIGN-DETAILED JRH	TSK	12/17
CHECKED-REVIEWED JRH	KSD	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

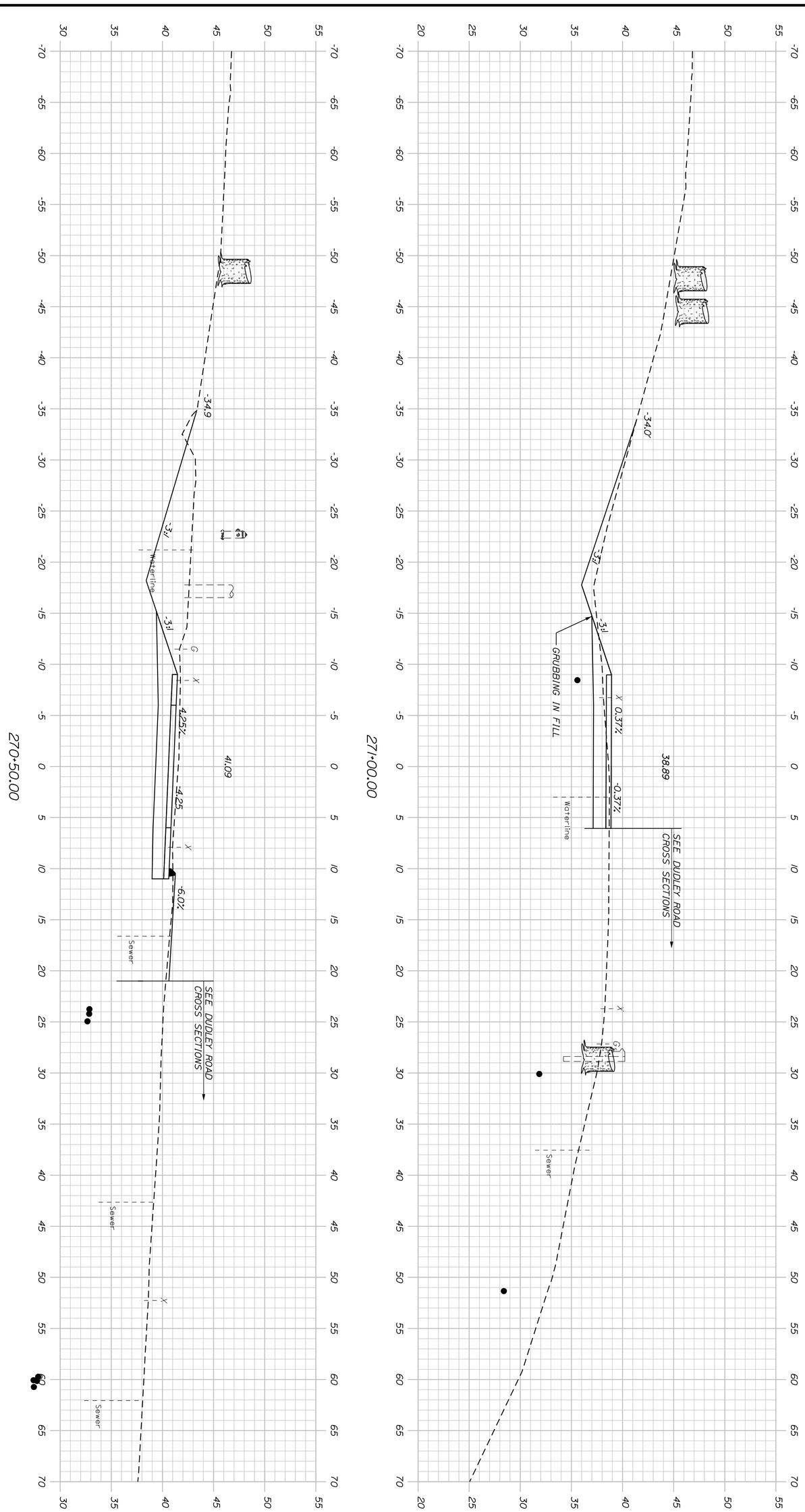
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00 HIGHWAY PLANS

SHEET NUMBER 187 OF 213



TYLININTERNATIONAL

SHEET NUMBER 188 OF 213

HAMPDEN
US ROUTE 1A
CROSS SECTIONS
DUDLEY ROAD - NORTH

PROJ. MANAGER	R. MOULTON	BY	DATE
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

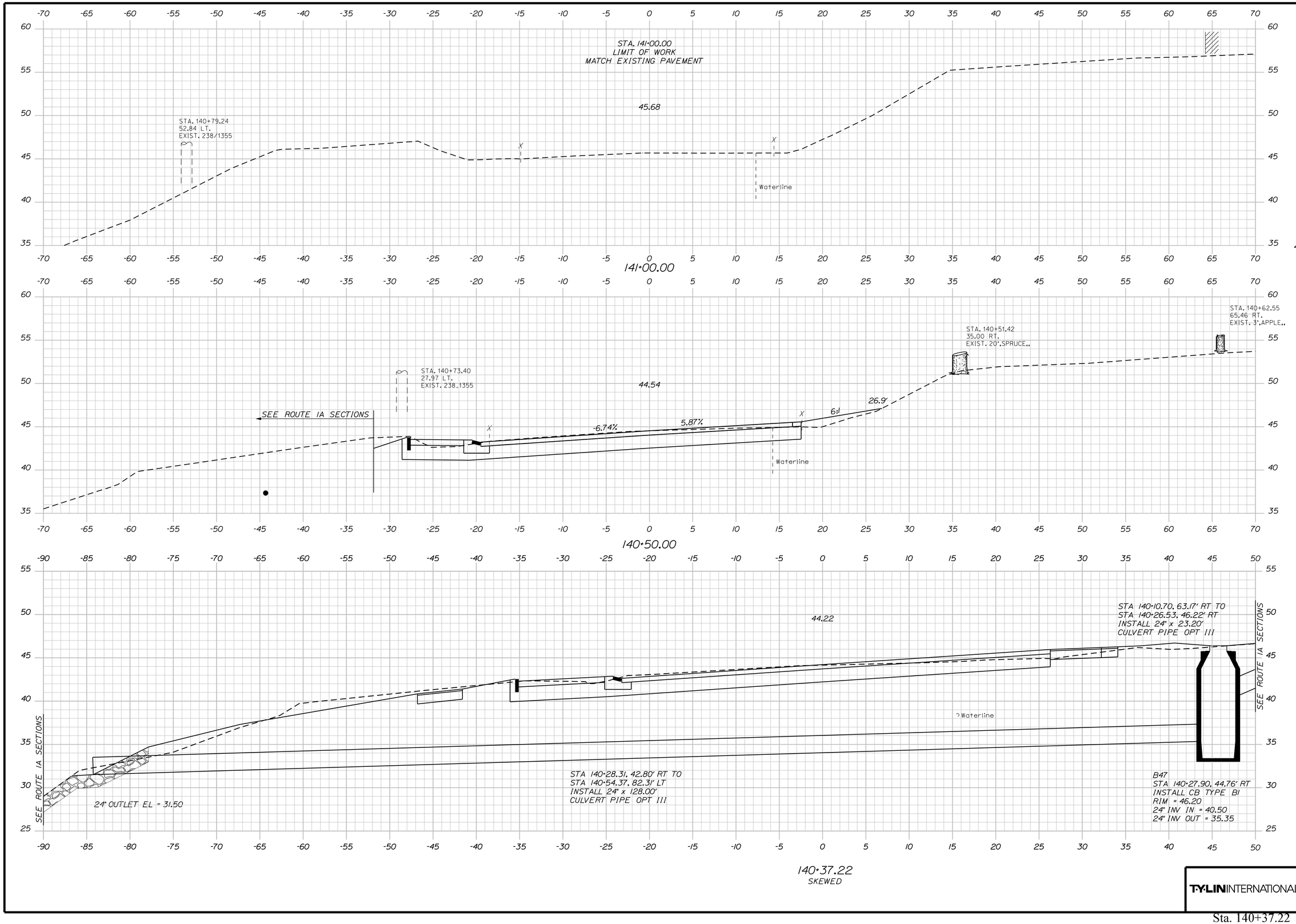
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00 HIGHWAY PLANS

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
COLDBROOK ROAD

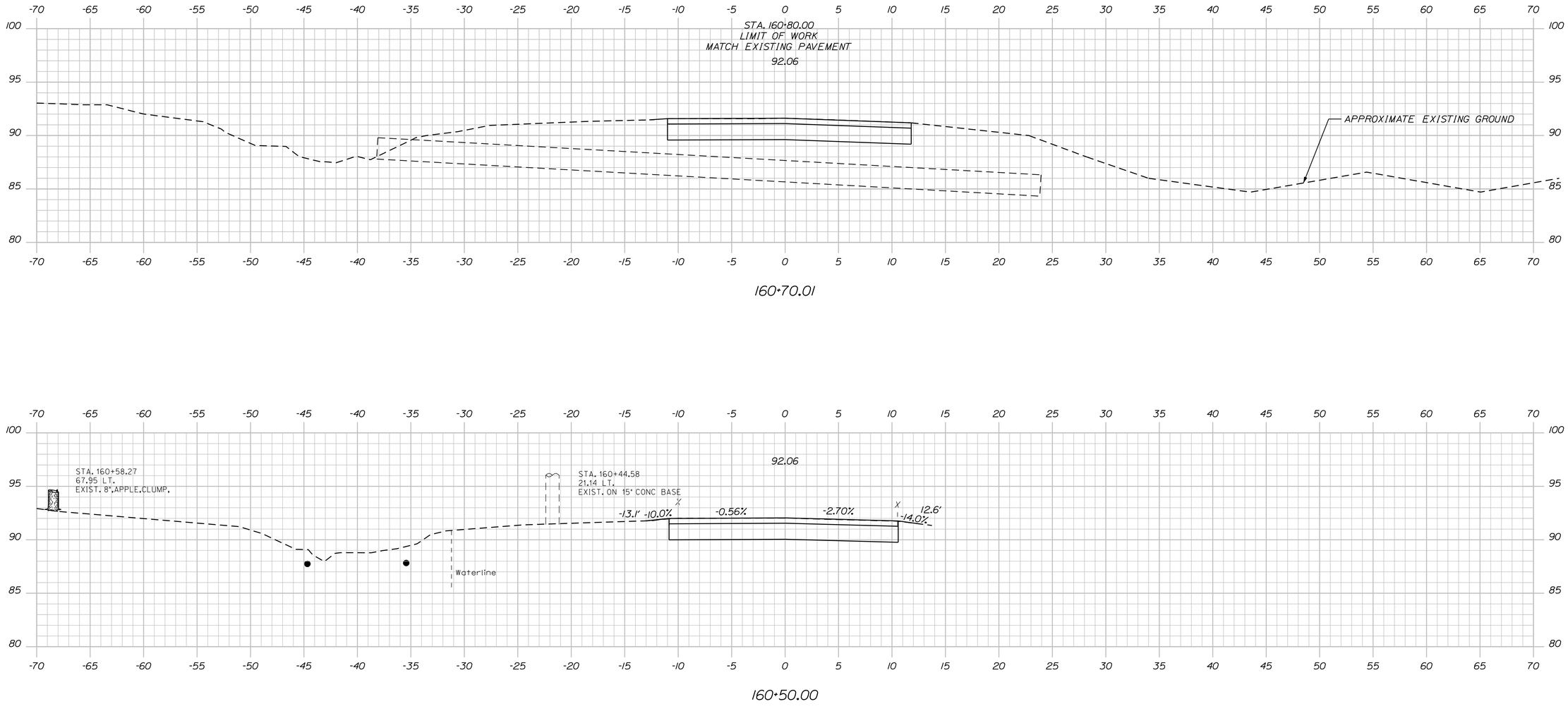
TYLIN INTERNATIONAL

SHEET NUMBER

189

OF 213

Sta. 140+37.22 to Sta. 141+00.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. MOULTON	
DESIGN-DETAILED	JRH	12/17
CHECKED-REVIEWED	JRH	12/17
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
FOXGLOVE DRIVE

SHEET NUMBER

190

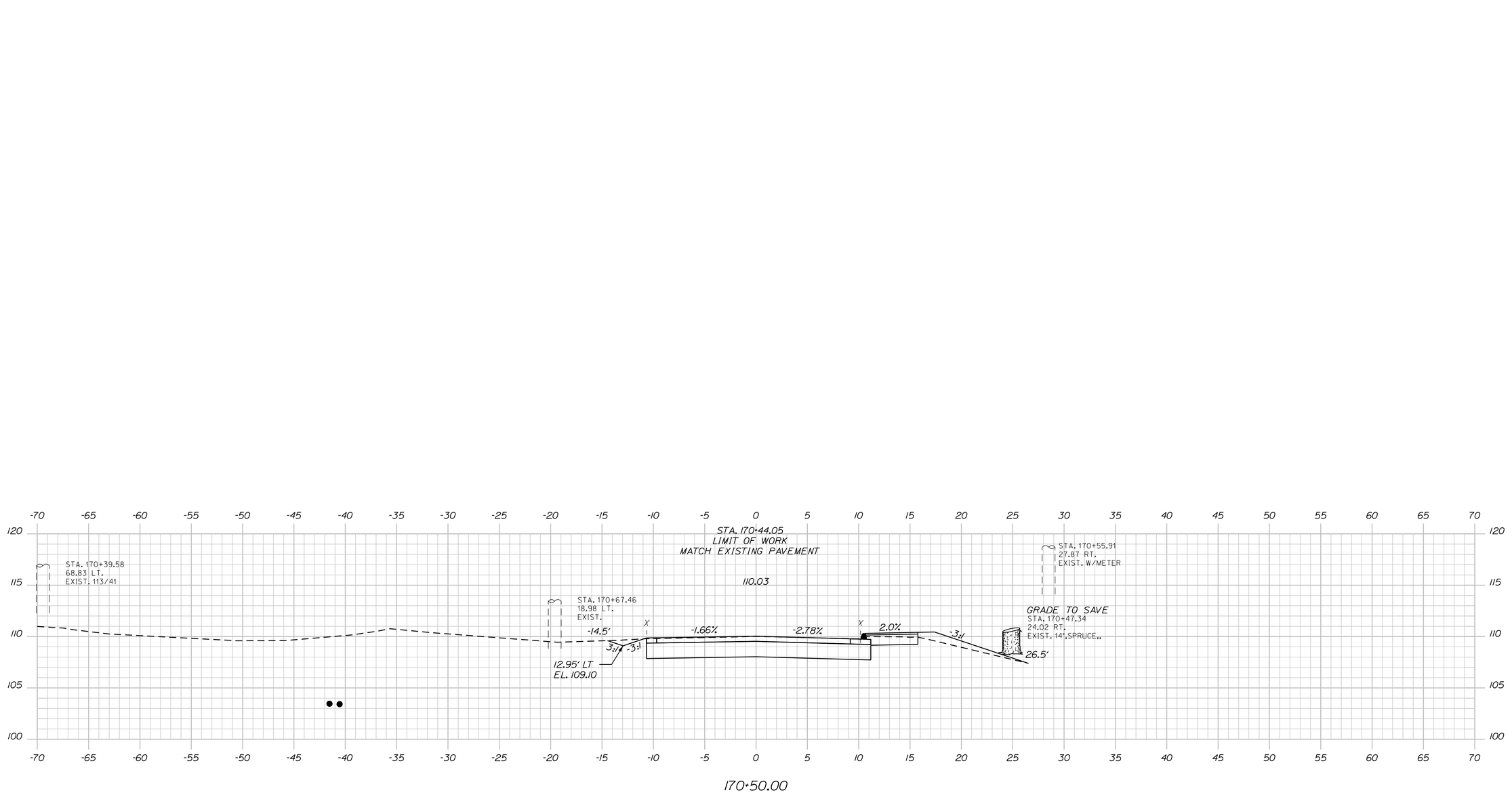
OF 213

T.Y.LIN INTERNATIONAL

Sta. 160+50.00 to Sta. 160+70.01

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019



PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2		KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SIGNATURE

P.E. NUMBER

DATE

STP-1157(700)X

WIN
11577.00
HIGHWAY PLANS

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
LIBRARY ROAD

T-Y LIN INTERNATIONAL

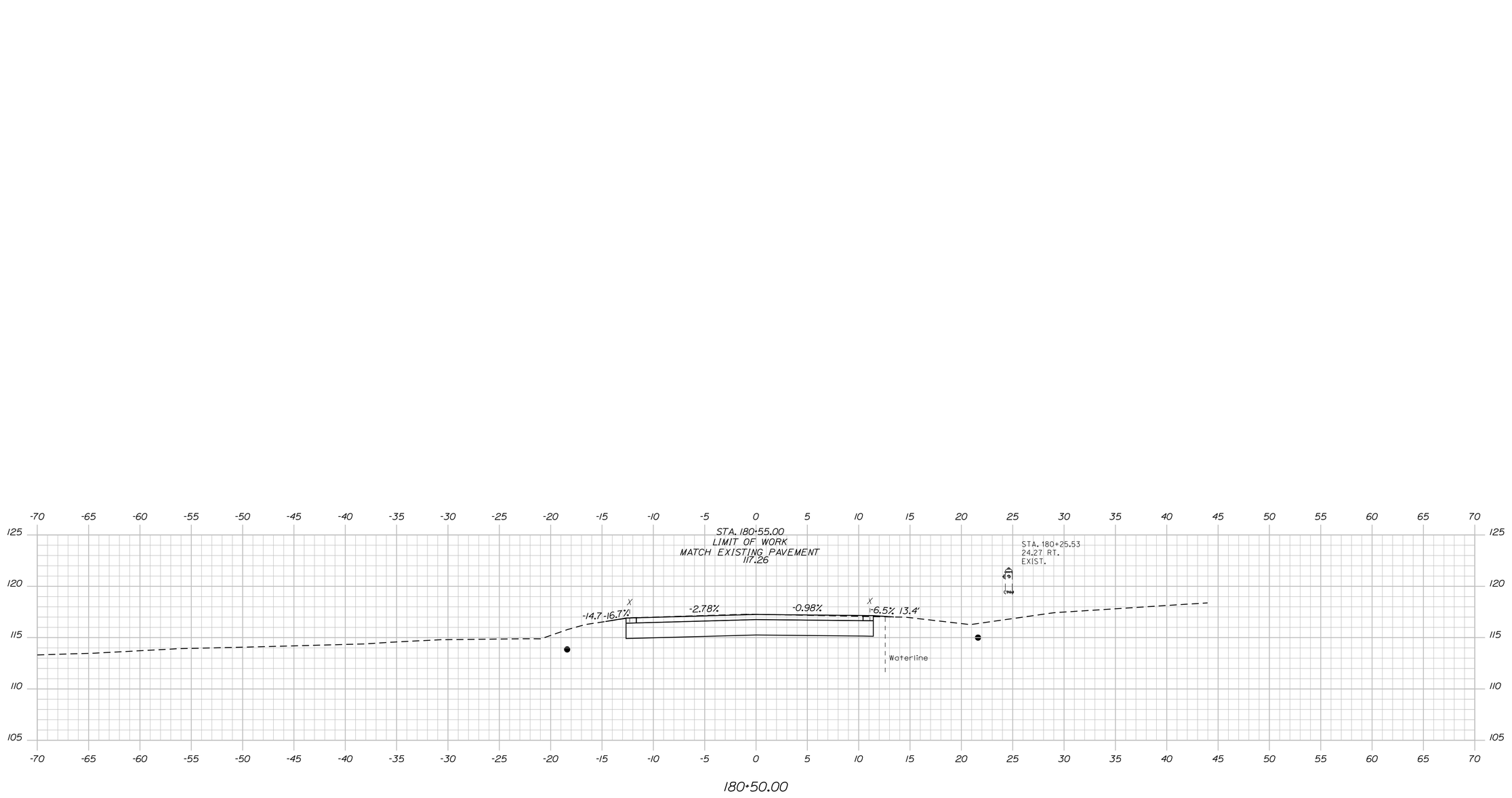
SHEET NUMBER

191

OF 213

Sta. 170+50.00 to Sta. 170+50.00

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019



PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	BY	DATE
CHECKED-REVIEWED	JRH	TSK	12/17
DESIGN2-DETAILED2		KSD	12/17
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
DAISEY LANE

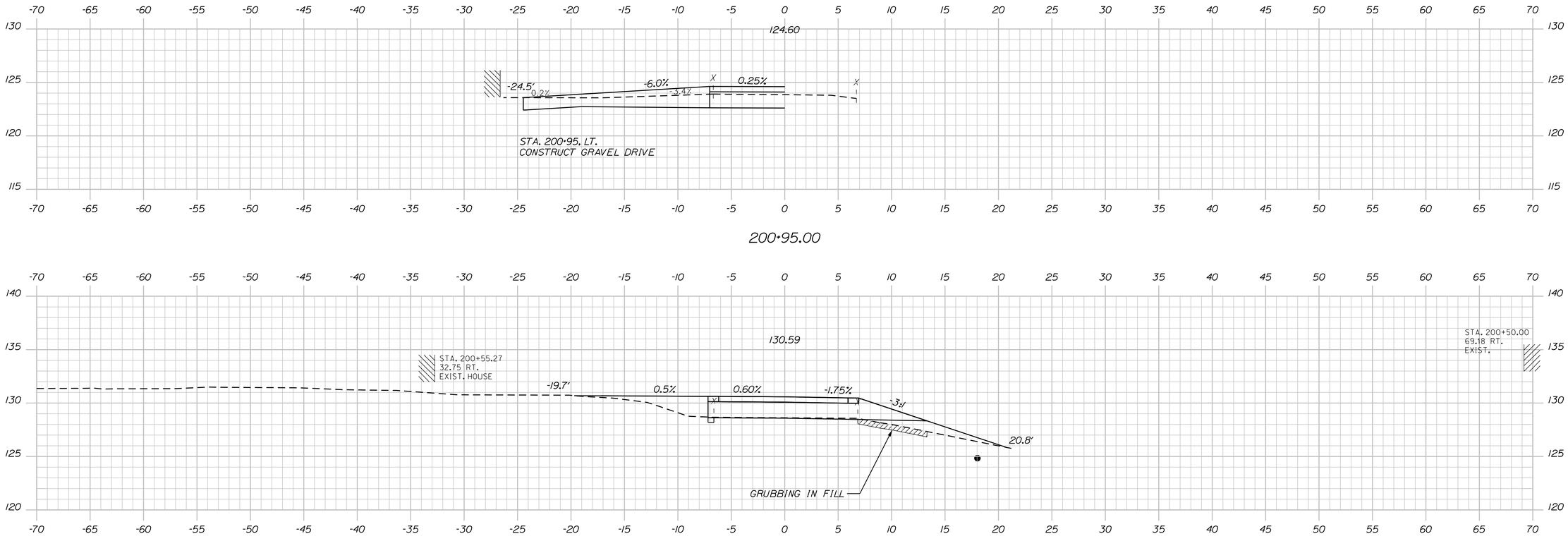
T-Y LIN INTERNATIONAL

SHEET NUMBER

192

OF 213

Sta. 180+50.00 to Sta. 180+50.00



Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
CARVER ROAD

SHEET NUMBER

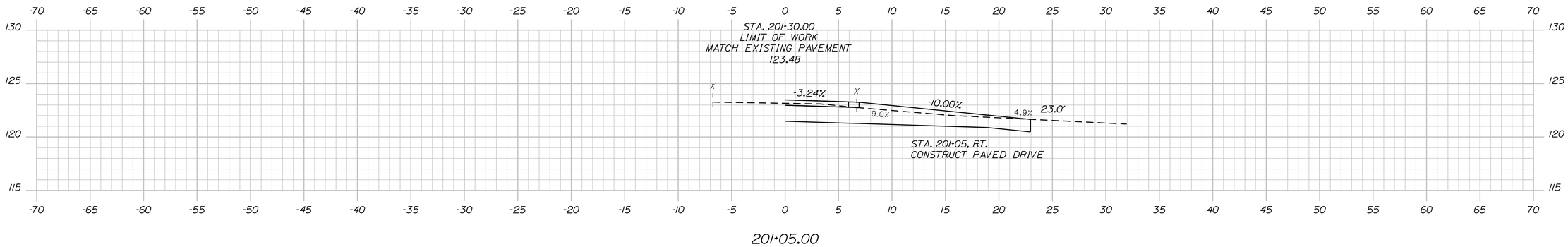
193

OF 213

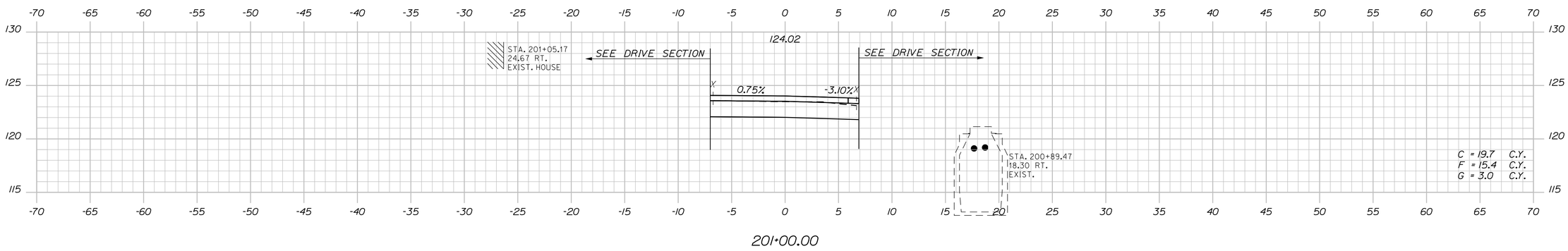
TYLIN INTERNATIONAL

Sta. 200+50.00 to Sta. 201+00.00

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019



201+05.00



201+00.00

Sta. 201+00.00 to Sta. 201+05.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
CARVER ROAD

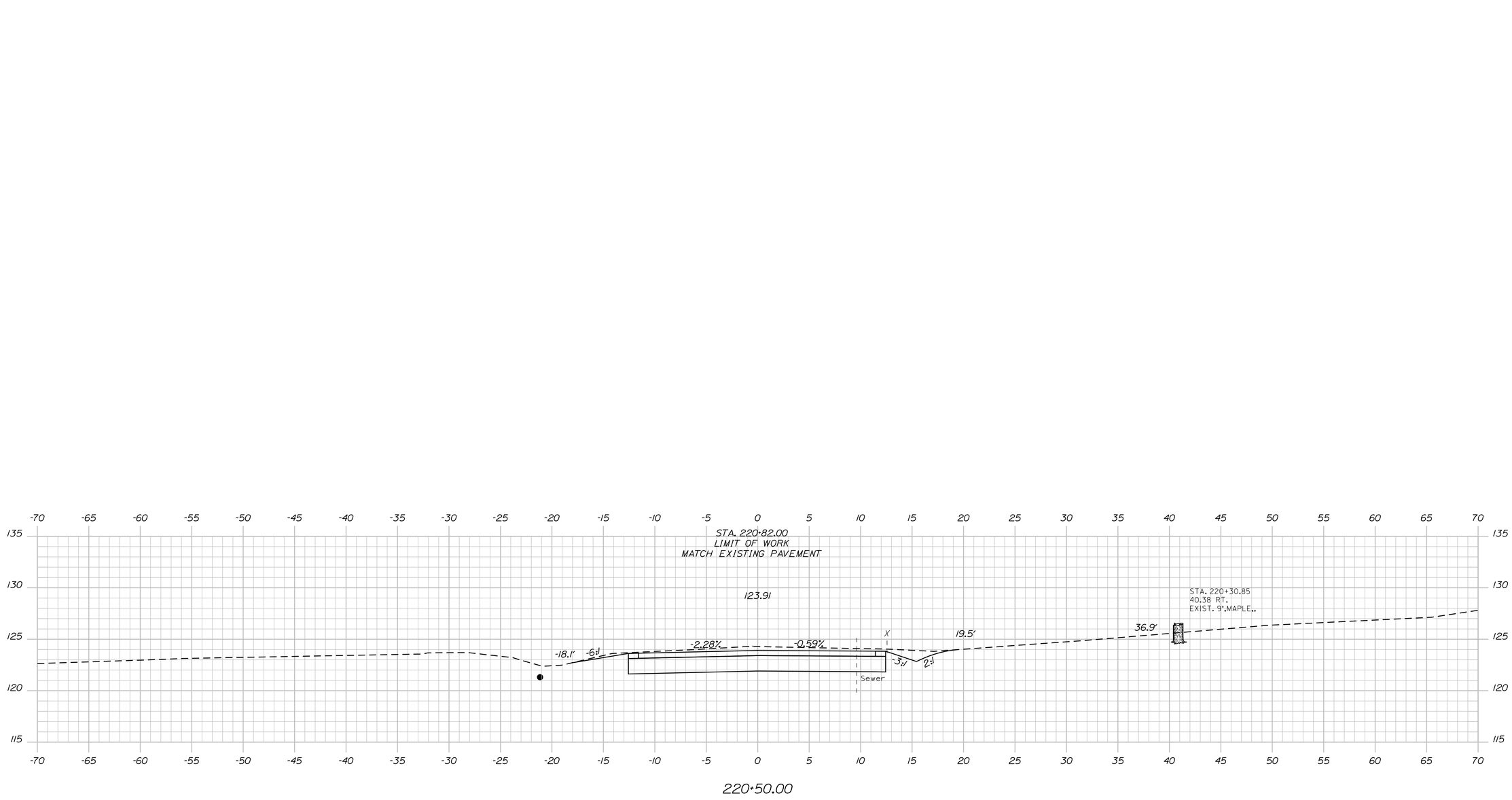
SHEET NUMBER

194

OF 213

T·Y·LIN INTERNATIONAL

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019



PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
FRANCES DRIVE

T·Y·LIN INTERNATIONAL

SHEET NUMBER

195

OF 213

Sta. 220+50.00 to Sta. 220+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN 11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
OLD COUNTY ROAD

SHEET NUMBER

196

OF 213

T-Y LIN INTERNATIONAL

Sta. 230+50.00 to Sta. 230+82.91

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
OLD COUNTY ROAD

SHEET NUMBER

197

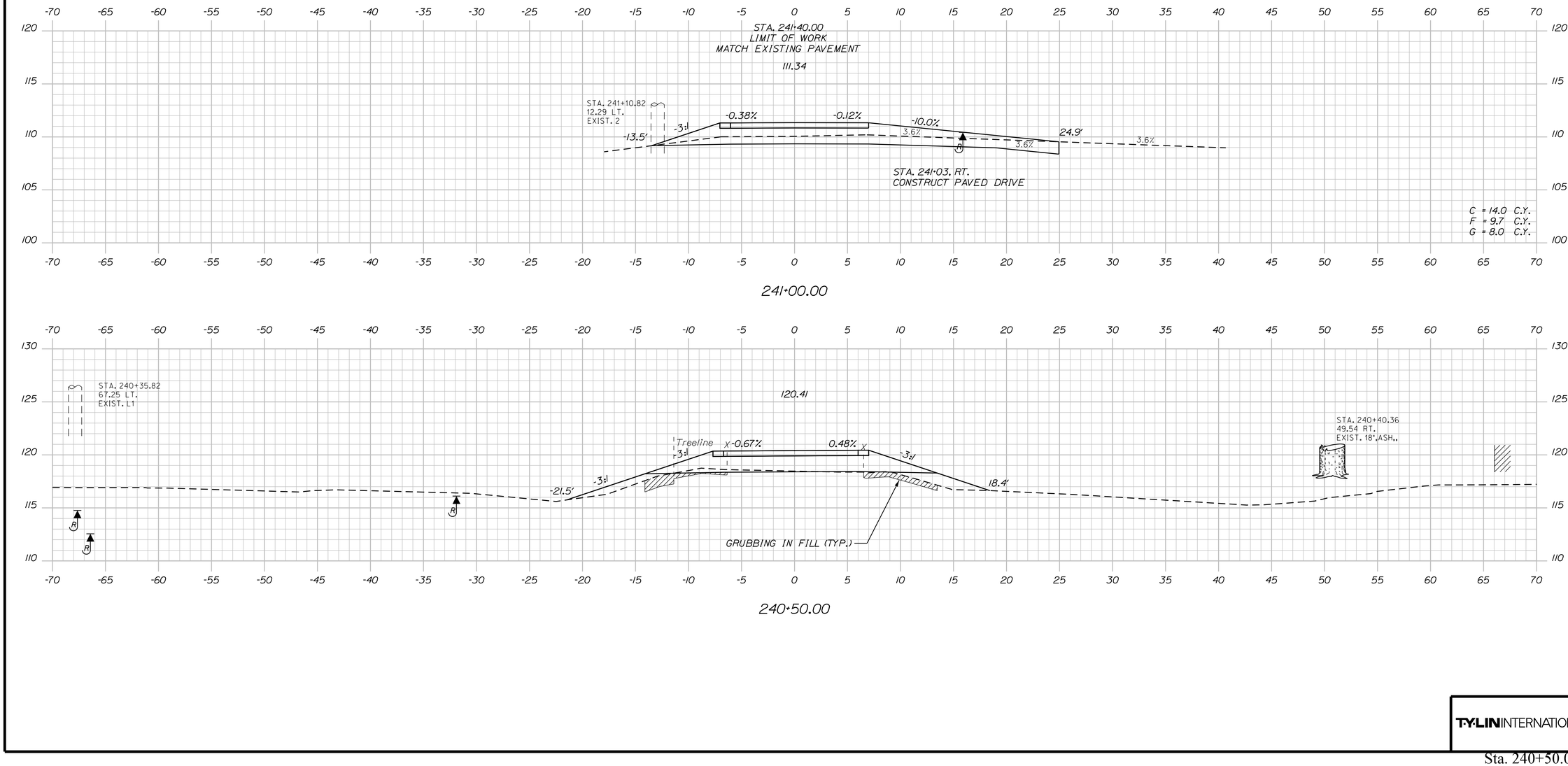
OF 213

T·Y·LIN INTERNATIONAL

Sta. 231+00.00 to Sta. 231+35.00

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\MSTA\031_XSections_Side Rd.dgn Username:
Division: HIGHWAY
Date:3/7/2019



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
MURPHY LANE

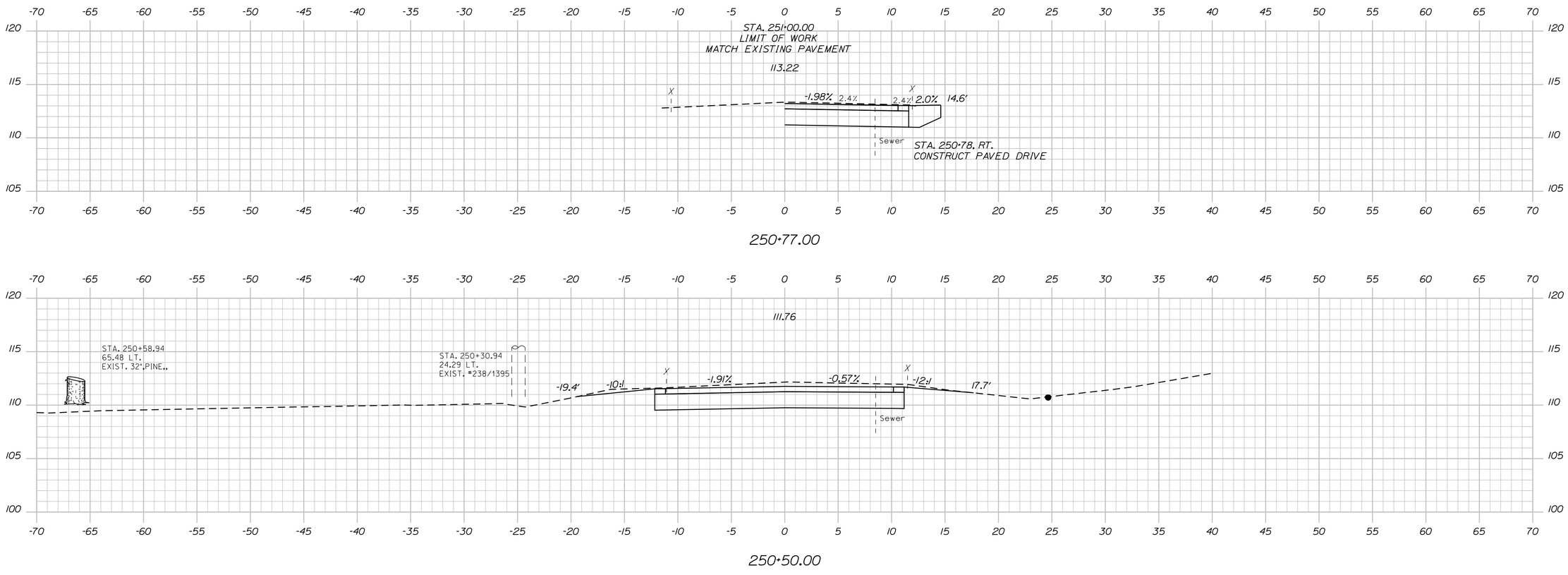
T·Y·LIN INTERNATIONAL

SHEET NUMBER

198

OF 213

Sta. 240+50.00 to Sta. 241+00.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1157(700)X

WIN
11577.00

HIGHWAY PLANS

PROJ. MANAGER	R. MOULTON		
DESIGN-DETAILED	JRH	TSK	12/17
CHECKED-REVIEWED	JRH	KSD	12/17
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

HAMPDEN
US ROUTE 1A

CROSS SECTIONS
CARRIAGE LANE

T.Y.LIN INTERNATIONAL

SHEET NUMBER

199

OF 213

Sta. 250+50.00 to Sta. 251+00.00

Filename: ...\MSTA\031_XSections_Side Rd.dgn Division: HIGHWAY Username: Date:3/7/2019

Filename: ...\00\ROW\MSTA\201_RWPLAN1.dgn Username: diona.grady Date:2/21/2019 Division: ROW

CRT XXIV, LLC
ITEM NO. (1)
TEMP. CONST. RIGHTS = 190± S.F.(1)
TOTAL AREA = 1.6± AC.(TOWN)

PAULINE C. BARRON
ITEM NO. (2)
TEMP. CONST. RIGHTS = 1550± S.F.(1)
TOTAL AREA = 3.4± AC.(OWNER)

JOAN M. SPEYER
ITEM NO. (3)
TEMP. CONST. RIGHTS = 1645± S.F.(1)
TOTAL AREA = 3.0± AC.(TOWN)

MARK P. SAVARD
ITEM NO. (4)
TEMP. CONST. RIGHTS = 410± S.F.(1)
TOTAL AREA = 1± AC.(OWNER)

MARTHA E. WILLIAMS
PHYLLIS A. HALSTEAD
ITEM NO. (7)
TEMP. CONST. RIGHTS = 475± S.F.(1)
TOTAL AREA = 1.5± AC.(DEED)

ELM STREET
PENOBSCOT COUNTY
BOOK 10, PAGE 5

GRID 19XX ZONE

DO NOT DISTURB
REMOVE AND RELOCATE COBBLES TO LAWN AREA
LIMITS
TEMP.
190± S.F.
CONST.
REMOVE
1550± S.F.
1645± S.F.
410± S.F.
475± S.F.
AVOID IMPACTS TO EXIST. WELL
OLD WELL NOT USED PER TOP

BEGIN B.L. 15+60
TO WINTERPORT
U.S. ROUTE 1A & ROUTE 9
S.H. "88"
120.29'
N.25°-49'-09.9"E.
395.21'
375.05'
80'±
82'±
954± S.F.
680± S.F.
70± S.F.
GRADE SIGN
TEMP. CONST. LIMITS 55± S.F. TO SAVE

WHITE HOUSE MOTEL
BUSINESS
LEE RESIDENTIAL CARE
HOUSE 89
HOUSE #93
HOUSE #97
HUNTER TZOVARRAS
JOHN DANIEL LAFAYETTE
CARLA J. LAFAYETTE
WILLIAM BOYINGTON
LANDON P. CORNELIUS
OBRIANNA M. CORNELIUS
HAMPDEN CONGREGATIONAL CHURCH

P.T. STA. 16+80.29
P.I. STA. 15+75.80
D = 1°08'45.3"
Δ = 2°23'42.9" Rt.
R = 5000.00'
L = 209.03'
T = 104.53'
E = 1.09'

P.C. STA. 20+75.50
P.I. STA. 22+65.79
D = 6°21'58.3"
Δ = 23°52'33.6" Rt.
R = 900.00'
L = 375.05'
T = 190.28'
E = 19.90'

HAMPDEN CONGREGATIONAL CHURCH
ITEM NO. (5)
TEMP. CONST. RIGHTS = 70± S.F.(1)
TOTAL AREA = 0.25± AC.(TOWN)

HAMPDEN CONGREGATIONAL CHURCH
ITEM NO. (6)
TEMP. CONST. RIGHTS = 735± S.F.(2)
TOTAL AREA = 0.65± AC.(TOWN)

ELLEN G. MAIER
PARCEL NO. (8)
LAND TAKEN = 954± S.F.
TOTAL AREA = 0.45± AC.(TOWN)
REM. AREA = 0.43± AC.

NOTE:
ITEM NOS. 23,34,36,48,50,51,53,65,82
HAVE BEEN OMITTED

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS

W.I.N. 011577.00

SYMBOLS
- (WELL)
- DRAINING DRT LINE
- CONSTRUCTION JOINT LINE
- PROPERTY LINE - P.L. -
- LIMITS OF WRK/RGHT-PORTION (LOW-P.)
- NEW RIGHT OF WAY
- EXISTING RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- IP or ● IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		D.M.
EXIST. R/W	B.D.M.	L.B.
PROP. LINES	T.L.B.	L.B.
AREAS	T.L.B.	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

HAMPDEN
RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK						
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018 | SCALE 1" = 25' | RIGHT-OF-WAY MAP | SHEET 1 OF 14 | D.O.T. FILE NO. 10-512

SHEET NUMBER
200
OF 213

Filename: ...\00\ROW\MSTA\202_RWPLAN2.dgn Division: ROW Username: diona.grady Date:2/21/2019

DAMSITE 1807, LLC
ITEM NO. (9)
TEMP. CONST. RIGHTS = 710± S.F.(1)
TOTAL AREA = 0.45± AC.(TOWN)

STEVEN E. BROWN
STORIE T. BROWN
ITEM NO. (11)
TEMP. CONST. RIGHTS = 0.06± AC.(1)
TOTAL AREA = 0.5± AC.(TOWN)

JOANN K. LUMINO
ROBERT E. WHITE
ITEM NO. (12)
TEMP. CONST. RIGHTS = 0.06± AC.(1)
TOTAL AREA = 1.4± AC.(TOWN)

MEREDYTH J. BALL
HEATHER L. BALL
ITEM NO. (15)
TEMP. CONST. RIGHTS = 480± S.F.(2)
TOTAL AREA = 0.75± AC.

ITEM NO. (14)
(OMITTED)

MICHAEL J. TRIPP
TAYLOR M. WALTON
ITEM NO. (13)
TEMP. CONST. RIGHTS = 0.05± AC.(1)
TOTAL AREA = 0.95± AC.(TOWN)

ELM STREET
PENOBSCOT COUNTY
BOOK 10, PAGE 5

P.I. STA. 22+65.79
D = 6°21'58.3"
Δ = 23°52'33.6" Rt.
R = 900.00'
L = 375.05'
T = 190.28'
E = 19.90'

ELLEN G. MAIER
PARCEL NO. (8)
LAND TAKEN = 954± S.F.
TOTAL AREA = 0.45± AC.(TOWN)
REM. AREA = 0.43± AC.

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS

U.S. ROUTE 1A & ROUTE 9
S.H. "88"
N.49°-41'-43.5"E. 250.33'

P.T. STA. 24+50.55

P.C. STA. 27+00.88

P.I. STA. 29+42.91
D = 3°41'47.4"
Δ = 17°45'00.2" Rt.
R = 1550.00'
L = 480.18'
T = 242.03'
E = 18.78'

DAVID MAKSON
KATHLEEN MAKSON
PARCEL NO. (10)
LAND TAKEN = 51± S.F.
CONST. & MAINT. EASE. = 145± S.F.(1)
TEMP. CONST. RIGHTS = 110± S.F.(2)
TOTAL AREA = 2.66± AC.(TOWN)
REM. AREA = 2.66± AC.

SAVE
REMOVE
REMOVE COLD WELL IMPACTS TOWN WELL NOT USED FOR
REMOVE PIPE AND HEADWALLS
TEMP. CONST. LTS.
GRADE TO SAVE
0.06± AC.
0.05± AC.
LIMITS
CONST.
TEMP.
CLL
CL
T.C.L.
55± S.F.
954± S.F.
82'±
51± S.F.
16'±
60± S.F.
8'±
EASEMENT

SYMBOLS
- (WELL) WELL
- BREAKING LAST LINE
- CONSTRUCTION JUMP LINE
- PROPERTY LINE - P.L.
- LIMITS OF WROUGHT PORTION (LOW-P.)
- IP or ● IPF. (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE
- NEW RIGHT OF WAY
- EXISTING RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		D.S.G.
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

W.I.N. 011577.00

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK		PAGE	COUNTY RECORD			
NO.	GRANTOR		INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 2 OF 14	

SHEET NUMBER
201
OF 213

Filename: ...\00\ROW\MSTA\203_RWPLAN3.dgn Username: diono.grady Date:2/21/2019 Division: ROW

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

MEREDYTH J. BALL
HEATHER L. BALL
ITEM NO. (15)
TEMP. CONST. RIGHTS = 480± S.F. (2)
TOTAL AREA = 0.75± AC.

HAMPDEN WATER DISTRICT
PARCEL NO. (16)
LAND TAKEN = 0.06± AC.
TOTAL AREA = 4.5± AC.(OWNER)
REM. AREA = 4.44± AC.

P.I. STA. = 36+04.70
D = 4°19'27.2"
Δ = 24°11'48.4" Lt.
R = 1325.00'
L = 559.56'
T = 284.02'
E = 30.10'

142 COLD BROOK ROAD
MAINE D.O.T.
SEE S.H.C. FILE NO. 10-64

JEFFREY P. BESWICK
DAWN BESWICK

SOUADABSCOOK STREAM

20' PIPELINE EASEMENT
TO HAMPDEN WATER DISTRICT
BOOK 1131, PAGE 228

POR NO. 50
MAP 33, LOT 2-1
STATE OF ME. D.O.T.

REMOVE
REMOVE AND RESET BOULDERS OUTSIDE LIMITS OF WORK
REMOVE PAVEMENT. GRADE TO DRAIN. LOAM AND SEED
REMOVE PAVEMENT GRADE TO DRAIN. LOAM AND SEED.

CONST. LIMITS TEMP.
55± S.F.
425± S.F.
T.C.L.
140'±
0.06± AC.
132'±
53'
40'±
62'
90'
CLL
P.C. STA. 33+20.69
STREAM FLOW

U.S. ROUTE 1A & ROUTE 9
S.H. "88"
N.67°-26'-43.7"E.
139.63'
480.18'

STA. 35+92.56 (S.H. "88")
STA. 140+00.00 (COLD BROOK RD.)
559.56
STA. 34+77.72 (S.H. "88")
STA. 130+00.00 (DUDLEY ST.)

CONST. & MAINT. LIMITS
CONST. ESE.
50± S.F. T.C.L.
145± S.F.
EXISTING CB AND 36" CMP TO REMAIN
PUMP STATION EASEMENT
GREGORY V. CHOQUETTE
TO
TOWN OF HAMPDEN
BOOK 13488, PAGE 176
DATED: 1/30/14
EASEMENT

P.T. STA. 31+81.06

EXISTING RIGHT OF WAY TO HIGH WATER
SEE S.H.C. FILE NO. 10-237
CONDEMNATION OCTOBER 4, 1928
RECORDED BOOK 1030, PAGE 199

P.I. STA. 29+42.91
D = 3°41'47.4"
Δ = 17°45'00.2" Rt.
R = 1550.00'
L = 480.18'
T = 242.03'
E = 18.78'

DAVID MAKSON
KATHLEEN MAKSON
PARCEL NO. (10)
LAND TAKEN = 51± S.F.
CONST. & MAINT. EASE. = 145± S.F.(1)
TEMP. CONST. RIGHTS = 110± S.F.(2)
TOTAL AREA = 2.66± AC.
REM. AREA = 2.66± AC.

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS

MARJORIE J. EARL
ITEM NO. (17)
SLOPE EASEMENT = 0.09± AC.(1)
DRAINAGE EASEMENT = 505± S.F.(1)
CONST. & MAINT. EASEMENT = 155± S.F.(1)
TEMP. CONST. RIGHTS = 230± S.F.(1)
TOTAL AREA = 0.75± AC.(TOWN)

DUDLEY ST.
P.I. STA. 131+84.40
D = 10°-03'-06.8"
Δ = 7°-03'-46.6" LT.
R = 570.00'
L = 70.26'
T = 35.18'
E = 1.08'

SEWER EASEMENT
JOHN C. CHASE
GRACE E. CHASE
TO
TOWN OF HAMPDEN
BOOK 3043, PAGE 327
OUTLET DRAINAGE STRUCTURE
STA. 131+00 TO STA. 131+25 RT. (DUDLEY ST.)
505± S.F.
0.09± AC.
230± LIMITS S.F. CONST. LTS.
155± S.F.
DRAIN.
SLOPE
SLOPE EASE. LTS.
TOE OF SLOPE EASE. LTS. STA. 131+23 LT. DUDLEY ST. STA. 35+42 RT.
S.49°39'09.6"E.
149.03'
DUDLEY STREET
131
90'
85'
105'
95'
50'
40'
1055± S.F.
155± S.F.
P.C. STA. 131+49.03
END P.L.
50.97'
132
DUDLEY ST. TOWN RECORDS
HAMPDEN TOWN RECORDS
ART. 2, PAGE 7
ART. 3, PAGE 24
ART. 15, PAGE 495
1913, 49'S

MARK L. PIERCE
DEBRA J. PIERCE
ITEM NO. (18)
SLOPE EASEMENT = 1055± S.F.(1)
TOTAL AREA = 1± AC.(OWN)

DO NOT DISTURB
REMOVE
REMOVE PAVEMENT GRADE TO DRAIN. LOAM AND SEED.

W.I.N. 011577.00 & 021692.00

SYMBOLS
(WELL)
BREAKING LIMIT LINE
CONSTRUCTION LIMIT LINE
PROPERTY LINE (R.O.W.)
LIMITS OF RIGHT PORTION (L.O.W.P.)
IP ● RPF (IRON PIPE or PIN FOUND)
S.T. (SEPTIC TANK)
(ROW MONUMENT)
(TRAVERSE POINT)
WATER LINE
GAS LINE
ELECTRIC LINE
TELEPHONE LINE
SEWER LINE
NEW RIGHT OF WAY
NEW ROW WITHIN EXIST. ROW
CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE		COUNTY RECORD			
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)
FEDERAL AID PROJECT NO. STP-2169(200)

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 3 OF 14	

SHEET NUMBER
202
OF 213

Filename: ...\00\ROW\MSTA\204_RWPLAN4.dgn Username: diono.grady Date:2/21/2019 Division: ROW

RICHARD L. DRISKO
MARY DRISKO
ITEM NO. (27)
TEMP. CONST. RIGHTS = 765± S.F.(1)
TOTAL AREA = 1.55± AC.(TOWN)

GRID 191X
ZONE

P.I. STA. = 36+04.70
D = 4°19'27.2"
Δ = 24°11'48.4" Lt.
R = 1325.00'
L = 559.56'
T = 284.02'
E = 30.10'

MAINE D.O.T.
SEE S.H.C. FILE NO. 10-64

142 COLD BROOK ROAD

141

JEFFREY P. BESWICK
DAWN BESWICK

19'±

P.L.

DAVID E. SIMPSON, JR.
ITEM NO. (19)
TEMP. CONST. RIGHTS = 765± S.F.(2)
TOTAL AREA = 0.36± AC.(TOWN)

BRUCE S. WILLIAMS, JR.
ITEM NO. (21)
TEMP. CONST. RIGHTS = 145± S.F.(1)
TOTAL AREA = 0.45± AC.(TOWN)

CALE L. BURGER
LYNDA J. BURGER

ITEM NO. (23)
OMITTED

P.T. STA. 38+80.25

APPROX. LOC. OLD SEPTIC TANK NO LONGER IN USE PER POR

REMOVE
SAVE
GRADE TO SAVE
CONST. TEMP. LIMITS
145± S.F. CONST. LIMITS
TEMP. 180± S.F.
SEE S.H.C. FILE NO. 10-64
REMOVE, GRADE TO SAVE

U.S. ROUTE 1A & ROUTE 9
S.H. "88"
N.43°-14'-55.3"E.
203.70'
559.56'
STA. 35+92.56 (S.H. "88")
STA. 140+00.00 (COLD BROOK RD.)
36 37 38 39 40 41 42
+70 +35± +54± +75 +15 +25± +48± +25 +35± +70 +15± +75± +25
233.29'
132'±
1908± S.F.
110'±
229.21'
35' 40'

(TOTAL = 788'±)
100'± 9'±
59'± 621± S.F.
90'±
26'±
8'±
50'±
57'±
526± S.F.
183.95'
100'±
518± S.F.
4'±
TEMP. CONST. LTS.
165± S.F.
25'± CL
740± S.F. 174'±
76.75' LTS.
73'±
TEMP.
CONST.
510± S.F.

REMOVE INLET END THAT CONFLICTS WITH PROPOSED DRAINAGE. PLUG AND FILL REMAINDER OF PIPE WITH FLOWABLE FILL.

REMOVE PAVEMENT, GRADE TO DRAIN. LOAM AND SEED.
REMOVE PAVEMENT, GRADE TO DRAIN. LOAM AND SEED. (MOD.)
TOE OF SLOPE STA. 131+23 LT. DIST. 25' STA. 35+43 RT. DIST. 25'
SLOPE EASEMENT LTS.

P.C. STA. 40+83.95

SEWER EASEMENT
SUSAN E. HASTY
TO
ROBERT S. BRIGGS
BARBARA F. BRIGGS
BOOK 5311, PAGE 107

MARK L. PIERCE
DEBRA J. PIERCE
ITEM NO. (18)
SLOPE EASEMENT = 1055± S.F.(1)
TOTAL AREA = 1± AC.(TOWN)

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS

CORY A. RICKER
PARCEL NO. (20)
LAND TAKEN = 740± S.F.
TEMP. CONST. RIGHTS = 510± S.F.(1)
TOTAL AREA = 0.75± AC.(TOWN)
REM. AREA = 0.73± AC.

COLBY SMALL
PARCEL NO. (22)
LAND TAKEN = 518± S.F.
TEMP. CONST. RIGHTS = 165± S.F.(1)
TOTAL AREA = 0.5± AC.(TOWN)
REM. AREA = 0.49± AC.

STEARNS FAMILY
LIMITED PARTNERSHIP
PARCEL NO. (24)
LAND TAKEN = 621± S.F.
TOTAL AREA = 0.35± AC.(TOWN)
REM. AREA = 0.34± AC.

THOMAS M. FREY
PARCEL NO. (25)
LAND TAKEN = 526± S.F.
TOTAL AREA = 3.01± AC.(SYRVEY)
REM. AREA = 3.00± AC.

3 ROD ROW TO OTHERS
79
R15 PAGE LOCATED
VOLUNTELY ON HAMPDEN
& TOWN LINE
TO HAMPDEN RECORDS
SEE CLERKS 14 1910
MARCH 14 1910
ARTICLE 22

BRIAN F. SWARTZ
SUSAN E. SWARTZ
PARCEL NO. (26)
LAND TAKEN = 1908± S.F.
TOTAL AREA = 0.53± AC.(TOWN)
REM. AREA = 0.49± AC.

P.I. STA 42+00.73
D = 2°51'53.2"
Δ = 6°40'59.4" Rt.
R = 2000.00'
L = 233.29'
T = 116.78'
E = 3.41'

W.I.N. 011577.00

SYMBOLS
- WELL
- BREAKING (ART LINE)
- CONSTRUCTION (MARK LINE)
- PROPERTY LINE (P.L.)
- LIMITS OF WRK (RIGHT PORTION (LOW.P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- IP or ● IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- BM (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 4 OF 14	

SHEET NUMBER
203
OF 213

Filename: ...\00\ROW\MSTA\205_RWPLAN5.dgn Division: ROW
Username: diana.grady Date:2/21/2019

STANLEY E. MACMILLAN
SEAN E. MACMILLAN
ITEM NO. (30)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 0.05± AC.(2)
TOTAL AREA = 16.71± AC.(TOWN)

RICHARD L. DRISKO
MARY DRISKO
ITEM NO. (27)
TEMP. CONST. RIGHTS = 765± S.F.(1)
TOTAL AREA = 1.55± AC.(TOWN)

ESTATE OF JANE H. HANSON
ITEM NO. (31)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 910± S.F.(1)
TOTAL AREA = 0.54± AC.(TOWN)

JULIET B. LURO
ITEM NO. (33)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 860± S.F.(1)
TOTAL AREA = 0.75± AC.(TOWN)

DONALD N. GROGAN
JOAN C. GROGAN
ITEM NO. (35)
DRAINAGE EASEMENT = (2)
TEMP. CONST. RIGHTS =830± S.F.(1)
TOTAL AREA = 1.03± AC.(TOWN)

STANLEY E. MACMILLAN
SEAN E. MACMILLAN
ITEM NO. (30)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 0.05± AC.(2)
TOTAL AREA = 16.71± AC.(TOWN)

GRID 19XX ZONE

REMOVE INLET END THAT CONFLICTS WITH PROPOSED DRAINAGE. PLUG AND FILL REMAINDER OF PIPE WITH FLOWABLE FILL.

INLET DRAINAGE STRUCTURE STA. 46+08± LT.

INLET DRAINAGE STRUCTURE STA. 47+61 LT.

INLET DRAINAGE STRUCTURE STA. 48+50 LT.

GRADE TO SAVE

REMOVE

TEMP. 765± S.F.

CONST. LIMITS 940± S.F.

CONST. LIMITS 910± S.F.

TEMP. 860± S.F.

CONST. LIMITS 830± S.F.

TEMP. 195± S.F. TEMP. CONST. LTS.

TEMP. CONST. LTS. 75± S.F.

TEMP. CONST. LTS. 785± S.F.

(TOTAL = 789'±) 580± S.F.

U.S. ROUTE 1A & ROUTE 9
S.H. "88"

N.54°-18'-46.1"E. 1534.78'

233.29'

302.79'

229.21'

1908± S.F.

1010± S.F.

132'±

102'±

88'±

110'±

222'±

134'±

35'±

33'±

2'±

9+35

43 +08± 44 +06± +35 +60± +65± 45 +28± +41± 46 +05 +26± +27± 47+08± +60± +61± 48 +97± +20± 49 +41± +42±

+70 +55

P.T. STA. 46+20.03

P.C.C. STA. 43+17.24

P.I. STA. 44+68.71
D = 1°26'48.7"
Δ = 4°22'51.4" Rt.
R = 3960.00'
L = 302.79'
T = 151.47'
E = 2.90'

P.I. STA 42+00.73
D = 2°51'53.2"
Δ = 6°40'59.4" Rt.
R = 2000.00'
L = 233.29'
T = 116.78'
E = 3.41'

SEWER EASEMENT
SUSAN E. HASTY
TO
ROBERT S. BRIGGS
BARBARA F. BRIGGS
BOOK 5311, PAGE 107

BRIAN F. SWARTZ
SUSAN E. SWARTZ
PARCEL NO. (26)
LAND TAKEN = 1908± S.F.
TOTAL AREA = 0.53± AC.(TOWN)
REM. AREA = 0.49± AC.

ALAN W. JORDAN
GILLIAN M. JORDAN
PARCEL NO. (28)
LAND TAKEN = 1010± S.F.
TEMP. CONST. RIGHTS = 75± S.F.(1)
TOTAL AREA = 0.19± AC.(TOWN)
REM. AREA = 0.17± AC.

JOHN D. LEAR
PARCEL NO. (29)
LAND TAKEN = 580± S.F.
TOTAL AREA = 1± AC.(TOWN)
REM. AREA = 0.99± AC.

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS

PAUL R. NICHOLS
ITEM NO. (32)
TEMP. CONST. RIGHTS = 195± S.F.(1)
TOTAL AREA = 1.19± AC.(TOWN)

ITEM NO. (34)
(OMITTED)

THOMAS J. HENNESSEY
NANCY J. HENNESSEY

ITEM NO. (36)
(OMITTED)

STEARNS FAMILY
LIMITED PARTNERSHIP

LINE SURVEY
FOR
PHILIP JOHNSON
ROUTE 1A
HAMPDEN MAINE
DATED: MAY 1984
BY ANDREW J. SHYKA
LAND SURVEYOR

W.I.N. 011577.00

SYMBOLS
- (WELL)
- BREAKING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE - P.L. -
- LIMITS OF RIGHT OF WAY / EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- IP or ●IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	B.D.M.	T.L.B.
PROP. LINES	T.L.B.	D.S.G.
AREAS	T.L.B.	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK NO.	GRANTOR	PAGE INSTRUMENT	COUNTY RECORD DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 10-512
SCALE 1"= 25' | SHEET 5 OF 14

SHEET NUMBER
204
OF 213

Filename: ...\00\ROW\MSTA\206_RWPLAN6.dgn Division: ROW Username: diona.grady Date:2/21/2019

STANLEY E. MACMILLAN
SEAN E. MACMILLAN
ITEM NO. (30)
DRAINAGE EASEMENT = (1) 0.05± AC.(2)
TEMP. CONST. RIGHTS = 0.05± AC.(2)
TOTAL AREA = 16.71± AC.(TOWN)

DARREN C. TURNER
BARBARA N. ASQUITH
ITEM NO. (39)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 500± S.F.(1)
TOTAL AREA = 0.85± AC.(TOWN)

WESTBROOK TERRACE DEVELOPMENT
LAND OF FRANK J. DORITY
SURVEYED BY P.T. COOLIDGE
MAY 1984
RECORDED P.C.R.D.
VOLUME 18, PAGE 97

GRID 19XX ZONE

LISA A. LARSON
TIMOTHY F. LARSON
ITEM NO. (43)
TEMP. CONST. RIGHTS = 90± S.F.(1)
TOTAL AREA = 0.50± AC.(TOWN)

DENNIS F. DODGE
CAROLYN F. DODGE
ITEM NO. (44)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 455± S.F.(1)
TOTAL AREA = 0.46± AC.(TOWN)

SUNSET AVENUE
EDGEWOOD SECTION
OF WESTBROOK TERRACE
ACCEPTED 1958
48'

SANDRA L. ALLISON
MICHAEL J. ALLISON
ITEM NO. (46)
SLOPE EASEMENT = 530± S.F.(1)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 250± S.F.(1)
TOTAL AREA = 0.40± AC.(TOWN)

ITEM NO. (37)
OMITTED

YVONNE M. LAMBERT
ITEM NO. (41)
TEMP. CONST. RIGHTS = 70± S.F.(1)
TOTAL AREA = 0.45± AC.(TOWN)

INLET DRAINAGE STRUCTURE STA. 50+50 LT.
INLET DRAINAGE STRUCTURE STA. 51+80 LT.
INLET DRAINAGE STRUCTURE STA. 54+72± LT.
INLET DRAINAGE STRUCTURE STA. 56+15± LT.
TOE OF SLOPE DITCH STA. 55+75 TO STA. 56+60 LT.

REMOVE 1090± S.F.
CONST. 500± S.F.
TEMP. 70± S.F.
CONST. 90± S.F.
TEMP. 455± S.F.
REMOVE
CONST. 250± S.F.
TEMP. 135± S.F.
REMOVE
CONST. 530± S.F.
EASE.
REMOVE
LIMITS
GRADE TO SAVE
GRADE TO SAVE

U.S. ROUTE 1A & ROUTE 9
S.H. "88"
N.54°-18'-46.0"E. 1534.78'

785± S.F. TEMP. CONST. LTS.
CONST. 1110± S.F.
TEMP. REMOVE
CONST. LIMITS
TEMP. 785± S.F. CONST.
CONST. 0.66± AC
DRAIN
245± S.F. LTS. EASE.
270± S.F.
315± S.F.
OUTLET DRAINAGE STRUCTURES STA. 55+85 TO STA. 56+20 RT.
REMOVE AND RESET FENCE / SIGN
OUTLET DRAINAGE STRUCTURES STA. 54+45 TO STA. 54+75 RT.
REMOVE AND RESET FENCE / SIGN
FOXGLOVE DRIVE PRIVATE

ITEM NO. (36)
(OMITTED)
STEARNS FAMILY
LIMITED PARTNERSHIP

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS

GEORGES E. BERUBE
ALLISON B. BERUBE
ITEM NO. (38)
TEMP. CONST. RIGHTS = 785± S.F.(1)
TOTAL AREA = 3± AC.(TOWN)

LINE SURVEY
FOR
PHILIP JOHNSON
ROUTE 1A
HAMPDEN, MAINE
DATED: MAY 1984
BY ANDREW J. SHYKA
LAND SURVEYOR

RODERICK L. FOGG
NORMA J. FOGG
MARILYN F. FOGG
ITEM NO. (40)
TEMP. CONST. RIGHTS = 1110± S.F.(1)
TOTAL AREA = 2.1± AC.(TOWN)

JACK C. HINDS
TRUDY A. HINDS
ITEM NO. (42)
DRAINAGE EASEMENT = 245± S.F.(1)
TEMP. CONST. RIGHTS = 785± S.F.(1)
TOTAL AREA = 1.6± AC.(TOWN)

STEPHEN P. JOHNSON
AVALON VILLAGE
LIMITED LIABILTY COMPANY
(OPTION TO PURCHASE)
ITEM NO. (45)
DRAINAGE EASEMENT = 585± S.F.(2)
TEMP. CONST. RIGHTS = 0.07± AC.(2)
TOTAL AREA = 59.45± AC.(TOWN)

SUBDIVISION PLAN (AMENDED)
OF
239 MAIN ROAD NORTH
FOR
AVALON VILLAGE LLC
DATED: APRIL 24, 1998
BY SEBAGO TECHNICS
PROJ. NO. 97086

W.I.N. 011577.00

SYMBOLS
- (WELL)
- BREAKING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE (P.L.)
- LIMITS OF WAY/RIGHT OF WAY PORTION (LOW/P.)
- IP or ● IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK						COUNTY RECORD		
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE			

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 6 OF 14	

SHEET NUMBER
205
OF 213

Filename: ...\00\ROW\MSTA\207_RWPLAN7.dgn Username: diona.grady Date:2/21/2019 Division: ROW

MARTHA K. GORDON
BANGOR SAVINGS BANK
TRUSTEES OF THE
MARTHA K. GORDON
LIVING TRUST DATED
DECEMBER 9, 2014
ITEM NO. (47)
SLOPE EASEMENT = 135± S.F.(1)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 695± S.F.(1)
TOTAL AREA = 0.50± AC.(TOWN)

INLET DRAINAGE STRUCTURE STA. 57+00 LT.

ERIC A. OLSON
ITEM NO. (49)
TEMP. CONST. RIGHTS = 560± S.F.(2)
TOTAL AREA = 2± AC.(OWNER)

FARREN HOLDINGS LLC
ITEM NO. (52)
TEMP. CONST. RIGHTS = 320± S.F.(2)
TOTAL AREA = 1.84± AC.(TOWN)

TOWN OF HAMPDEN
ITEM NO. (55)
SLOPE EASEMENT = 290± S.F.(1)
DRAINAGE EASEMENT = (1)
TOTAL AREA = 1.7± AC.(TOWN)

FARREN HOLDINGS LLC

THE COMMUNITY CHURCH OF THE OPEN DOOR
ITEM NO. (56)
TEMP. CONST. RIGHTS = 510± S.F.(1)
TOTAL AREA = 2.44± AC.(TOWN)

GRID 19XX ZONE

REMOVE
REMOVE STUMP
REMOVE GRANITE
REMOVE AND RESET AS DIRECTED BY RESIDENT
REMOVE STUMP
REMOVE
REMOVE GRANITE
REMOVE
REMOVE
GRADE TO DRAIN

135± S.F.
695± S.F.
TEMP.
CONST.
LIMITS
375± S.F.
185± S.F.
TEMP.
CONST.
30± S.F.
LIMITS
290± S.F.
TEMP.
CONST.
LTS.
INLET DRAINAGE STRUCTURE STA. 61+75 LT.
TOE OF SLOPE DITCH STA. 61+75 TO STA. 62+00 LT.
SLOPE EASE. 290± S.F.
LTS.
300± S.F.
TEMP.
CONST.
LIMITS
220± S.F.
T.C.L.

45'
40'
+55 +60 +78± 57 +77± +78± 58 +22± 59 +56± +58± +85 60 +40 61 +35 +67± +75 62 +10 +24± +41± +69± +00±

U.S. ROUTE 1A & ROUTE 9
S.H. "88"
N.54°-18'-46.0"E. 1534.78'
171.71'

GRADE TO SAVE

P.C. STA. 61+54.81
P.T. STA. 63+26.52

P.I. STA. 62+40.67
D = 0°13'45.1"
Δ = 0°23'36.7" Rt.
R = 25,000.00'
L = 171.71'
T = 85.85'
E = 0.15'

MICHELLE L. FOOSE
ADRIAN M. FOOSE
ITEM NO. (54)
TEMP. CONST. RIGHTS = 300± S.F.(1)
TOTAL AREA = 1± AC.(TOWN)

THOMAS L. BOWCOCK
DEBORAH A. BOWCOCK
ITEM NO. (48)
(OMITTED))

RICHARD M. LAMBERT
JUDITH W. LAMBERT
ITEM NO. (50)
(OMITTED)

SAMUEL E. WALLS
ITEM NO. (51)
(OMITTED)

SANDRA SIMPSON
WAYNE A. SIMPSON
ITEM NO. (53)

STEPHEN P. JOHNSON
AVALON VILLAGE
LIMITED LIABILTY COMPANY
(OPTION TO PURCHASE)
ITEM NO. (45)
DRAINAGE EASEMENT = 585± S.F.(2)
TEMP. CONST. RIGHTS = 0.07± AC.(2)
TOTAL AREA = 59.45± AC.(TOWN)

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS

SUBDIVISION PLAN (AMENDED)
OF
239 MAIN ROAD NORTH
FOR
AVALON VILLAGE LLC
DATED: APRIL 24, 1998
BY SEBAGO TECHNICS
PROJ. NO. 97086

LIBRARY ROAD
SEE RELEASE DEED
ANN B. TO TOWN OF HAMPDEN
BOOK 3398, PAGE 77

W.I.N. 011577.00

SYMBOLS
- (WELL)
- DRAINING LAY LINE
- CONSTRUCTION JOINT LINE
- PROPERTY LINE - P.L. -
- LIMITS OF TYPE OF RIGHT OF WAY (TOW-P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- IP or ● IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- (TRAVERSE POINT)
- W WATER LINE
- G GAS LINE
- E ELECTRIC LINE
- T TELEPHONE LINE
- SEWER LINE

ITEM	CHECKED
BASE MAP	
EXIST. R/W	B.D.M.
PROP. LINES	T.L.B.
AREAS	T.L.B.
TECH	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 7 OF 14	

SHEET NUMBER
206
OF 213

THE COMMUNITY CHURCH OF THE OPEN DOOR
ITEM NO. (56)
TEMP. CONST. RIGHTS = 510± S.F.(1)
TOTAL AREA = 2.44± AC.

CULLEN G. WILLIAMS
SHERYL S. WILLIAMS
ITEM NO. (59)
SLOPE EASEMENT = 120± S.F.
TEMP. CONST. RIGHTS = 715± S.F.(1)
TOTAL AREA = 0.86± AC.(TOWN)

GRID NXX ZONE

SUBDIVISION PLAN (AMENDED)
CHICKADEE CROSSING
FOR BILLINGTON LLC
BY KISER ENGINEERING & DEVELOPMENT CONSULTING
DATED FEBRUARY 7, 2012
P.C.R.D. MAP FILE NO. 2012-45

P.I. STA. 70+43.72
D = 1°38'13.3"
Δ = 6°25'27.0" Lt.
R = 3500.00'
L = 392.43'
T = 196.42'
E = 5.51'

DAISEY LANE
PLAN BOOK 20, PAGE 18
ACCEPTED 1958
66'

CHICKADEE LANE
BILLINGTON LLC
TO
TOWN OF HAMPDEN
BOOK 13373, PAGE 244
DATED 9/27/2013
66' WIDE

LOT 1

CHRISTOPHER M. GRINDROD
ITEM NO. (64)
DRAIN. EASE. = (1)
TEMP. CONST. RIGHTS =
0.05± AC.(1)
TOTAL AREA =
0.42± AC.(TOWN)

LOT 2

RSQ, LLC
ITEM NO. (61)
TEMP. CONST. RIGHTS = 875± S.F.(1)
TOTAL AREA = 0.35± AC.(TOWN)

P.C. STA. 68+47.30

INLET DRAINAGE STRUCTURE
STA. 69+65 LT.

DRAIN

REMOVE
RELOCATE HYDRANT (BY OTHERS)
GRADE TO SAVE
T.C.L.
CONST.
LIMITS
TEMP.
510± S.F.
120± S.F.
715± S.F.
875± S.F.
0.05± AC.

U.S. ROUTE 1A & ROUTE 9
S.H. "88"

64 65 66 67 68 69 70 71

N.54°-42'-22.8"E. 213.43'
205.18'
N.55°-10'-35.6"E. 102.17'
392.43'

FORCE MAIN - APPROXIMATE LOCATION
GRAVITY - APPROXIMATE LOCATION

220± S.F.
1455± S.F.
355± S.F.
1575± S.F.
630± S.F.
200± S.F.
110± S.F.

ITEM NO. (58)
OMITTED

P.C. STA. 65+39.95
P.I. STA. 66+42.54
D = 0°13'45.1"
Δ = 0°28'12.8" Rt.
R = 25000.00'
L = 205.18'
T = 102.59'
E = 0.21'
P.T. STA. 67+45.13

BRIAN A. WENTWORTH
PEGGY A. WENTWORTH
ITEM NO. (57)
TEMP. CONST. RIGHTS = 365± S.F.(2)
TOTAL AREA = 1.1± AC.(TOWN)

STEPHEN P. JOHNSON
AVALON VILLAGE
LIMITED LIABILTY COMPANY
(OPTION TO PURCHASE)
ITEM NO. (45)
DRAINAGE EASEMENT =
585± S.F.(2)
TEMP. CONST. RIGHTS =
0.07± AC.(2)
TOTAL AREA =
59.45± AC.(TOWN)

STEPHEN WHITTY
AIMEE M. WHITTY
ITEM NO. (62)
TEMP. CONST. RIGHTS = 630± S.F.(1)
TOTAL AREA = 0.7± AC.(TOWN)

ROBERT T. JOHNSON
MARISA M. JOHNSON
ITEM NO. (60)
TEMP. CONST. RIGHTS = 1575± S.F.(1)
TOTAL AREA = 0.93± AC.(TOWN)

BRANDON REED HAY
AMANDA BETH HAY
ITEM NO. (63)
TEMP. CONST. RIGHTS =
200± S.F.(1)
TOTAL AREA = 0.42± AC.(TOWN)

LIBRARY ROAD
SEE RELEASE DEED
ANN B. CRONIN
TO
TOWN OF HAMPDEN
BOOK 3398, PAGE 77

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS

SUBDIVISION PLAN (AMENDED)
OF
AVALON VILLAGE
239 MAIN ROAD NORTH
FOR
AVALON VILLAGE LLC
DATED: APRIL 24, 1998
BY SEBAGO TECHNICS

SUNRISE LANE
PLAN OF
DANCE HALL SUBDIVISION
ACCEPTED 2009
66'

THE LANE CONSTRUCTION CORPORATION
ITEM NO. (65)
(OMITTED)

DANCE HALL SUBDIVISION
BY WOODARD & CURRAN
DATED:JANUARY 2008
BY WOODARD & CURRAN
P.C.R.D. MAP FILE 2008-27

W.I.N. 011577.00

SYMBOLS
- (WELL)
- BREAKING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE - P.L. -
- LIMITS OF WROUGHT PORTION (LOW P.)
- IP or ● IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- EXISTING RIGHT OF WAY
- CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK			PAGE	COUNTY RECORD			
NO.	GRANTOR		INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 8 OF 14	

SHEET NUMBER
207
OF 213

Filename: ...\00\ROW\MSTA\208_RWPLAN8.dgn Division: ROW Username: diono.grady Date:2/21/2019

P.I. STA. 70+43.72
D = 1°38'13.3"
Δ = 6°25'27.0" Lt.
R = 3500.00'
L = 392.43'
T = 196.42'
E = 5.51'

ROBERT E. YOST
ITEM NO. (68)
TEMP. CONST. RIGHTS =
560± S.F.(1)
TOTAL AREA = 2.65± AC.(TOWN)

SARGENT PROPERTY MANAGEMENT, LLC
ITEM NO. (69)
DRAINAGE EASEMENTS = (2)
TEMP. CONST. RIGHTS = 885± S.F.(1)
TOTAL AREA = 2± AC.(TOWN)

MARK A. HOLMES
LYNDA M. HOLMES
ITEM NO. (72)
TEMP. CONST. RIGHTS =
970± S.F.(1)
TOTAL AREA = 0.35± AC.(TOWN)

SANDRA L. SOUTHERLAND
ITEM NO. (74)
TEMP. CONST. RIGHTS = 305± S.F.(2)
TOTAL AREA =0.75± AC.(TOWN)

JOHN D. DICKINSON
ITEM NO. (76)
TEMP. CONST. RIGHTS = 830± S.F.(1)
TOTAL AREA = 1.41± AC.(TOWN)

DAVID P. BRICKEL
AMY BRICKEL
ITEM NO. (77)
TEMP. CONST. RIGHTS = 745± S.F.(1)
TOTAL AREA = 1.47± AC.(TOWN)

CHRISTOPHER M. GRINDROD
ITEM NO. (64)
DRAIN. EASE. = (1)
TEMP. CONST. RIGHTS =
0.05± AC.(1)
TOTAL AREA =
0.42± AC.(TOWN)

P.T. STA. 72+39.73

INLET DRAINAGE STRUCTURE STA. 72+52 LT.

REMOVE CULVERT & HEADWALLS

INLET DRAINAGE STRUCTURE STA. 73+47 LT.

10' R/W TO OTHERS

GRID 19YX ZONE

REMOVE

GRADE TO SAVE

DO NOT CLEAR BEYOND TOE OF FILL SLOPE

GRADE TO SAVE

TEMP. CONST. LIMITS 0.05± AC.

REMOVE CONST. LIMITS TEMP. 560± S.F.

REMOVE CONST. LIMITS TEMP. 885± S.F.

TEMP. CONST. LIMITS 970± S.F.

CONST. 250± S.F.

CONST. 830± S.F.

TEMP. 55± S.F.

TEMP. LIMITS

CONST. LIMITS 745± S.F.

392.43'

71 72 73 74 75 76 77 78

+35± +55± +57± +51± +39± +40± +20 +84± +85± +40 +15 +30 +55± +78± +90 +10 +65 +80 +09± +37± +39± +20

U.S. ROUTE 1A & ROUTE 9
S.H. "88"

STA. 73+66.13 S.H. "88" =
STA. 250+00.00 CARVER RD.

STA. 75+84.73 S.H. "88" =
STA. 210+00.00 RIVERVIEW RD.

N.48°-45'-08.6"E.

1465.74'

35'±

S.49°-42'-08.7"E. 56.37

P.C. STA. 200+56.37

L.O.W.P.

TEMP. 260± S.F.

CONST. 585± S.F.

LIMITS

GRADE TO SAVE

REMOVE

115± S.F.

REMOVE HARDWOODS SOFTWOODS TO REMAIN

71'±

69'±

392± S.F.

125.00'
S.52°-49'-52.5"E.

211.10

17'±

CONST. LTS. 110± S.F.

TEMP. 745± S.F.

CONST.

FILL OVER RR TIES

OUTLET DRAINAGE STRUCTURE STA. 73+53± RT.

REMOVE

TEMP. 795± S.F. CONST.

62.22'
N.01°-17'-51.5"W.

201

1085± S.F.

L.O.W.P.

CONST. LIMITS

P.T. STA. 201+18.59

31.41'
S.54°-37'-21.5"E.

295± S.F.

LIMITS

L.O.W.P.

END STA. 201+50

CARVER ROAD
SUBDIVISION PLAN
1973 VARIED WIDTH
12.5'- 16'

CARVER RD.
P.I. STA. 200+87.50
D = 7°-38'-22.0"
Δ = 4°45'11.8" LT.
R = 750.00'
L = 62.22'
T = 31.13'
E = 0.65'

RIVERVIEW TOWN RD. RECORDS
HAMPDEN TOWN ART. 47
MARCH 1953
33'

END STA. 211+25

THE LANE CONSTRUCTION CORPORATION
ITEM NO. (65)
(OMITTED)

RON HALOG
BARBARA JELIN
ITEM NO. (66)
TEMP. CONST. RIGHTS =
110± S.F.(1)
TOTAL AREA =
0.15± AC.(TOWN)

NATE WICKLOW
ITEM NO. (67)
TEMP. CONST. RIGHTS =
745± S.F.(1)
TOTAL AREA = 0.2± AC.(TOWN)

BRITTANY J. HARRINGTON
CHRISTOPHER C. MCCRILLIS
ITEM NO. (70)
DRAINAGE EASE. = (1)
TEMP. CONST. RIGHTS =
795± S.F.(1)
TOTAL AREA =
0.16± AC.(TOWN)

ARNOLD W. JOSLYN
ITEM NO. (71)
TEMP. CONST. RIGHTS = 1345± S.F.(2)
TOTAL AREA = 0.2± AC.(TOWN)

EUGENE C. BUCK
SANDRA K. KAPPES-BUCK
ITEM NO. (73)
TEMP. CONST. RIGHTS = 700± S.F.(2)
TOTAL AREA = 0.75± AC.(TOWN)

TAMMY L. YOUNG
DANIEL L. CURTIS
PARCEL NO. (75)
LAND TAKEN = 392± S.F.
TOTAL AREA = 0.4± AC.(TOWN)
REM. AREA = 0.39± AC.

ANGELA J. BURBINE
MICHAEL R. BURBINE

JILLIAN E. SARNACKI
SAMUEL D. WOOD
ITEM NO. (110)
TEMP. CONST. RIGHTS = 295± S.F.(1)
TOTAL AREA = 0.55± AC.(TOWN)

NOTE:
SEE SHEET NO. 13
FOR ITEM NO. (109)

DANCE HALL SUBDIVISION
BY WOODARD & CURRAN
DATED:JANUARY 2008
BY WOODARD & CURRAN
P.C.R.D. MAP FILE 2008-27

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS

SUBDIVISION PLAN
RIVER VIEW DEVELOPMENT
FOR ALLEN L. ROOKS
BY NORTHERN ENGINEERING & SURVEYING INC.
DATED: 1960 & 1973
P.C.R.D. FILE NO. 216

LOT 9
LOT 10

W.I.N. 011577.00

SYMBOLS

- IP ● RF (IRON PIPE or PIN FOUND)
- ST. (SEPTIC TANK)
- (ROW MONUMENT)
- (TRAVERSE POINT)
- (WELL)
- BREAKING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE - P.L. -
- LIMITS OF WRIGHT PORTION (LOW.P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK			PAGE	COUNTY RECORD		
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 9 OF 14	

SHEET NUMBER
208
OF 213

Filename: ...\00\ROW\MSTA\209_RWPLAN9.dgn Division: ROW Username: diono.grady Date:2/21/2019

Filename: ...\00\ROW\MSTA\210_RWPLAN10.dgn Division: ROW

Username: diona.grady Date:2/21/2019

DAVID P. BRICKEL
AMY BRICKEL
ITEM NO. (77)
TEMP. CONST. RIGHTS = 745± S.F.(1)
TOTAL AREA = 1.47± AC.(TOWN)

DAVID R. HAWKINS, JR.
EMILY H. HAWKINS
ITEM NO. (78)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 855± S.F.(1)
TOTAL AREA = 0.95± AC.(TOWN)

TRISTAN MASON BLANCHARD
KATIE JAYE BLANCHARD
BEVERLY ANN GARLAND
ITEM NO. (79)
TEMP. CONST. RIGHTS =
1020± S.F.(1)
TOTAL AREA = 2.93± AC.(TOWN)

THE CUSHING FAMILY CORPORATION
ITEM NO. (80)
DRAINAGE EASEMENTS = (2)
TEMP. CONST. RIGHTS =
1160± S.F.(1)
TOTAL AREA = 0.6± AC.(TOWN)

DAVID PUCCIO
ERICKA L. PUCCIO
ITEM NO. (81)
TEMP. CONST. RIGHTS = 860± S.F.(1)
TOTAL AREA = 0.52± AC.(TOWN)

PATRICIA SEEKINGS
ITEM NO. (83)
TEMP. CONST. RIGHTS = 1260± S.F.(1)
TOTAL AREA = 1± AC.(TOWN)

FINAL PLAN OF
GREELEY FARM SUBDIVISION
BY CIVIL ENGINEERING SERVICES
DATED: JULY 1987
P.C.R.D. MAP FILE D111-88

FRANCES DRIVE
PLAN OF
GREELEY FARM
SUBDIVISION
1987, 66'

15' ROAD MAINT. EASE.

GRID 19XX ZONE

INLET DRAINAGE STRUCTURE STA. 79+09 LT.

INLET DRAINAGE STRUCTURE STA. 80+50 LT.

INLET DRAINAGE STRUCTURE STA. 81+09 LT.

REMOVE

GRADE TO SAVE

REMOVE & RESET FENCE

REMOVE COBBLESTONES

REMOVE STUMP

GRADE TO SAVE

TEMP. CONST. LIMITS

745± S.F.

855± S.F.

1020± S.F.

1160± S.F.

860± S.F.

1260± S.F.

78 79 80 81 82 83 84

U.S. ROUTE 1A & ROUTE 9
S.H. "88"

N.48°-45'-08.4"E.

1465.74'

LIGHT POST

ROBERT S. SHOPPE
ALICE J. SHOPPE, LIFE ESTATE

ITEM NO. (82)
(OMITTED)

ANGELA J. BURBINE
MICHAEL R. BURBINE

PATRICIA (TRUNDY) BOOKER

ANNA M. MOSES

MARJORIE (LAWRENCE) CAIRNS

MATTHEW RAUTIO

NEAL A. MERRILL

NICOLE HORR

20' WATER LINE EASE. TO HAMPDEN WATER DISTRICT

SEWER DRAIN EASE. TO TOWN OF HAMPDEN

LOT 9 LOT 8 LOT 7 LOT 6 LOT 5 LOT 4 LOT 3 LOT 1 & 2

P.L.

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS

SUBDIVISION PLAN
RIVER VIEW DEVELOPMENT
ALLEN L. ROOKS
DATED 1960 & 1973
BY NORTHERN ENGINEERING & SURVEYING INC.
RECORDED P.C.R.D.
FILE NO. 216

W.I.N. 011577.00

SYMBOLS

- (WELL)
- DRAINING DRT LINE
- CONSTRUCTION JOINT LINE
- PROPERTY LINE - P.L. -
- LIMITS OF RIGHT OF WAY PORTION (LOW-P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- IP or ● IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- BM (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		D.S.G.
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

HAMPDEN
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 10-512
SCALE 1" = 25' | SHEET 10 OF 14

SHEET NUMBER
209
OF 213

Filename: ...\00\ROW\MSTA\211_RWPLAN11.dgn Division: ROW
Username: diana.grady Date:2/21/2019

ELIZABETH L. BOUDREAU
ITEM NO. (84)
TEMP. CONST. RIGHTS = 960± S.F.(1)
TOTAL AREA = 0.8± AC.(TOWN)

GREGORY J. URBAN
JULIE L. URBAN
ITEM NO. (85)
TEMP. CONST. RIGHTS = 480± S.F.(1)
TOTAL AREA = 1.9± AC.(TOWN)

GIDGET WALSH
ITEM NO. (87)
TEMP. CONST. RIGHTS = 310± S.F.(2)
TOTAL AREA = 1± AC.(TOWN)

OLD COUNTY ROAD
P.I. STA. 230+47.91
D = 148°-49'-12.7"
Δ = 66°-39'-10.0" RT.
R = 38.50'
L = 44.79'
T = 25.32'
E = 7.58'

NICHOLAS A. OLSON
ITEM NO. (88)
TEMP. CONST. RIGHTS = 510± S.F.(1)
TOTAL AREA = 0.67± AC.(TOWN)

JUDITH A. SMITH
ITEM NO. (89)
TEMP. CONST. RIGHTS = 450± S.F.(2)
TOTAL AREA = 1± AC.(TOWN)

JULIE E. IRICK
ITEM NO. (86)
DRAINAGE EASEMENT = 250± S.F.(1)
TEMP. CONST. RIGHTS = 295± S.F.(2)
TOTAL AREA = 1.86± AC.(TOWN)

MICHELLE L. TWADDELL
ITEM NO. (90)
TEMP. CONST. RIGHTS = 510± S.F.(1)
TOTAL AREA =0.45± AC.(TOWN)

PATRICK LEON AUDET, JR.
BRENDA GAIL AUDET
ITEM NO. (91)
DRAINAGE EASEMENT = 365± S.F.(1)
TEMP. CONST. RIGHTS = 480± S.F.(1)
TOTAL AREA = 3,51± AC.(TOWN)

ADAM G. THIBODEAU
KATHERINE C. THIBODEAU
F/K/A KATHERINE C. FRASER

EXISTING R/W
B.O.P. TO OLD COUNTY ROAD
PENOBSCOT COUNTY RECORDS
VOLUME 1, PAGE 127
1821, 4 RODS
OLD COUNTY ROAD TO E.O.P.
PENOBSCOT COUNTY RECORDS
VOLUME 9, PAGE 500
1883, 4 RODS

P.I. STA. 88+48.16
D = 2°12'13.3"
Δ = 6°16'58.3" Rt.
R = 2600.00'
L = 285.10'
T = 142.70'
E = 3.91'

PLAN FOR
CAROLYN AND CLINTON VANAKEN
BY C.R. HERRINGTON
DATED: AUGUST 1973
P.C.R.D. MAP FILE NO. 366

W.I.N. 011577.00

SYMBOLS
- ○WELL (WELL)
- DRAINING UNIT LINE
- CONSTRUCTION UNIT LINE
- PROPERTY LINE (R.O.W.)
- LIMITS OF WRK/RIGHT PORTION (LOW.P.)
- IP or ● IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- ⊕BM (TRAVERSE POINT)
- W WATER LINE
- G GAS LINE
- E ELECTRIC LINE
- T TELEPHONE LINE
- SEWER LINE
- NEW RIGHT OF WAY
- EXISTING RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		D.S.G.
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK			PAGE	COUNTY RECORD			
NO.	GRANTOR		INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 11 OF 14	

SHEET NUMBER
210
OF 213

Filename: ...\00\ROW\MSTA\212_RWPLAN12.dgn Username: diana.grady Date:2/21/2019 Division: ROW

P.I. STA. = 94+47.30
D = 0°13'45.1"
Δ = 1°16'42.3" Lt.
R = 25000.00'
L = 557.81'
T = 278.92'
E = 1.56'

GRID BRX ZONE

TOE OF SLOPE DITCH
STA. 91+80 TO
STA. 92+04 LT.
(S.H. "88")

OLD COUNTY ROAD

P.C. STA. 91+68.39

LAMBROS KARRIS
ITEM NO. (92)
SLOPE EASEMENT = 0.05± AC.(1)
DRAINAGE EASEMENT = (2)
TEMP. CONST. RIGHTS =235± S.F.(2)
TOTAL AREA = 0.65± AC.(TOWN)

COLBY R. CHASE
AMANDA G. CHASE
ITEM NO. (97)
TEMP. CONST. RIGHTS = 160± S.F.(2)
TOTAL AREA = 0.65± AC.(TOWN)

DOUGLAS M. RISHTON
STEPHANIE RISHTON
ITEM NO. (100)
SLOPE EASEMENT = 1615± S.F.(1)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 1345± S.F.(2)
TOTAL AREA = 1.2± AC.(TOWN)

COASTAL MAINE LLC
ITEM NO. (101)
TEMP. CONST. RIGHTS = 0.05± AC.(1)
TOTAL AREA = 0.15± AC.(TOWN)

P.T. STA. 97+26.20

INLET DRAINAGE STRUCTURE STA. 92+04 LT.

INLET DRAINAGE STRUCTURE STA. 98+58 LT.

SLOPE EASE. LTS.
0.05± AC.
120± S.F.
TEMP. CONST. LTS.
115± S.F.
GRADE TO SAVE
90± S.F.
REMOVE
70± S.F.
95± S.F.
REMOVE CULVERT & HEADWALL
1250± S.F.
GRADE TO SAVE
TOE OF SLOPE DITCH STA. 98+00 TO STA. 98+58 LT.
1615± S.F.
0.05± AC.

U.S. ROUTE 1A & ROUTE 9
S.H. "88"

557.81'

N.53°-45'-24.6"E.
1173.80'

365± S.F.
6'±
140± S.F.
663± S.F.
115'±
117'±
510± S.F.
480± S.F.
240± S.F.
136'± 723± S.F.
135'±
380± S.F.
275± S.F.
REMOVE
REMOVE & STACK FENCE & RR TIES
REMOVE
5'±
36'±
511'±
170± S.F.
5'±
(TOTAL = 588'±)
223'±
763± S.F.
TEMP.
301'±
77'±
0.06± AC.
915± S.F.
380± S.F.
DRAIN. EASE. LTS.
REMOVE
1365± S.F.
0.08± AC.
40± S.F.

PAUL J. GADOURY
LISA J. GADOURY
PARCEL NO. (94)
LAND TAKEN = 663± S.F.
TEMP. CONST. RIGHTS = 415± S.F.(2)
TOTAL AREA = 0.34± AC.(TOWN)
REM. AREA = 0.32± AC.

OUTLET DRAINAGE STRUCTURES STA. 91+75 TO STA. 92+18± RT.

PATRICK LEON AUDET, JR.
BRENDA GAIL AUDET
ITEM NO. (91)
DRAINAGE EASEMENT = 365± S.F.(1)
= 480± S.F.(1)
TEMP. CONST. RIGHTS = AC.(TOWN)
TOTAL AREA = 3,51± AC.(TOWN)

LAMBROS KARRIS
CYNTHIA L. KARRIS
ITEM NO. (93)
DRAINAGE EASEMENT = 510± S.F.(1)
TEMP. CONST. RIGHTS = 240± S.F.(1)
TOTAL AREA = 0.8± AC.(TOWN)

ERNEST P. DRUAN, JR.
KRISTEN L. DRUAN
PARCEL NO. (95)
LAND TAKEN = 723± S.F.
TEMP. CONST. RIGHTS = 1745± S.F.(2)
TOTAL AREA = 0.33± AC.(DEED)
REM. AREA = 0.31± AC.

CLINTON E. VANAKEN
PARCEL NO. (98)
LAND TAKEN = 170± S.F.
TEMP. CONST. RIGHTS = 0.08± AC.(1)
TOTAL AREA = 21,116± S.F.(CALC.)
REM. AREA = 20,946± S.F.

PETER W. DOWNEY, TRUSTEE
SALLIE TUCKER JONES, TRUSTEE
SALLIE W. TARBELL
FAMILY TRUST
PARCEL NO. (99)
LAND TAKEN = 763± S.F
DRAINAGE EASEMENT = 380± S.F.(1)
TEMP. CONST. RIGHTS = 0.08± AC.(2)
TOTAL AREA = 8± AC.(TOWN)
REM. AREA = 7.98± AC.

OUTLET DRAINAGE STRUCTURE STA. 98+50 TO STA. 98+70 RT.

RALPH J. HELMS, III
SANDRA M. HELMS
ITEM NO. (96)
TEMP. CONST. RIGHTS = 40± S.F.(1)
TOTAL AREA = 2± AC.(TOWN)

EXISTING R/W
OLD COUNTY ROAD TO E.O.P.
PENOBSCOT COUNTY RECORDS
VOLUME 9, PAGE 500
1883, 4 RODS

PLAN FOR
CAROLYN AND CLINTON VANAKEN
DATED AUGUST 1973
BY C.R. HERRINGTON
RECORDED P.C.R.D.
MAP FILE NO. 366

W.I.N. 011577.00

SYMBOLS
- WELL
- DRAINING DRT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE - P.L. -
- LIMITS OF WRONGHT PORTION (LOW.P.)
- IP or ● IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		D.S.G.
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 12 OF 14	

SHEET NUMBER
211
OF 213

Filename: ...\00\ROW\MSTA\213_RWPLAN13.dgn Username: diona.grady Division: ROW Date:2/21/2019

SKETCH OF
CLARK LOTS
BY PRENTISS & CARLISLE CO. INC.
DATED: FEBRUARY 1940
P.C.R.D. VOLUME 14, PAGE 24

HUGHES SUBDIVISION
BY ANDERSON - NICHOLS
DATED: JANUARY 17, 1984
P.C.R.D. MAP FILE D41 - 84

GRID 19YX ZONE

MARJORIE B. SNYDER
ITEM NO. (102)
TEMP. CONST. RIGHTS = 0.05± AC.(1)
TOTAL AREA = 1.94± AC.(TOWN)

COASTAL MAINE LLC
ITEM NO. (101)
TEMP. CONST. RIGHTS = 0.05± AC.(1)
TOTAL AREA = 0.15± AC.(TOWN)

RANDY M. WHINERY
JANE M. WHINERY
ITEM NO. (104)
TEMP. CONST. RIGHTS = 650± S.F.(1)
TOTAL AREA = 0.25± AC.(TOWN)

MARGARET A.T. WIKEN
ITEM NO. (105)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 1975± S.F.(1)
TOTAL AREA = 0.86± AC.(TOWN)

KYLE R. DALTON
MOLLY K. DALTON
ITEM NO. (108)
SLOPE EASEMENT = 370± S.F.(1)
DRAINAGE EASEMENT = (1)
TEMP. CONST. RIGHTS = 1215± S.F.(1)
TOTAL AREA = 26,076± S.F.(PLAN)

CARRIAGE LANE
PLAN OF
HUGHES SUBDIVISION
66'

INLET DRAINAGE STRUCTURE
STA. 98+58 LT.

TOE OF SLOPE DITCH
STA. 105+50 TO
STA. 105+70 LT.

INLET DRAINAGE STRUCTURE
STA. 105+50 LT.

INLET DRAINAGE STRUCTURE
STA. 102+77 LT.

REMOVE AND RESET HYDRANT (BY OTHERS)

REMOVE

GRADE TO SAVE

GRADE TO MAINTAIN GRANITE STONE ART

REMOVE PAVEMENT. GRADE TO DRAIN. LOAM AND SEED.

OUTLET DRAINAGE STRUCTURE
STA. 98+50 TO
STA. 98+70 RT.

OUTLET DRAINAGE STRUCTURE
STA. 102+65 TO
STA. 102+90 RT.

U.S. ROUTE 1A & S.H. "88"

N.53°-45'-24.6"E. 1173.80'

PETER W. DOWNEY, TRUSTEE
SALLIE TUCKER JONES, TRUSTEE
SALLIE W. TARBELL
FAMILY TRUST
PARCEL NO. (99)
LAND TAKEN = 763± S.F.
DRAINAGE EASEMENT = 380± S.F.(1)
TEMP. CONST. RIGHTS = 0.08± AC.(2)
TOTAL AREA = 8± AC.(TOWN)
REM. AREA = 7.98± AC.

ROBERT W. FOSTER
ITEM NO. (103)
TEMP. CONST. RIGHTS = 0.06± AC.(1)
TOTAL AREA = 3± AC.(OWNER)

BRENT WHITNEY
ITEM NO. (106)
DRAINAGE EASEMENT = 310± S.F.(1)
TEMP. CONST. RIGHTS = 0.05± AC.(1)
TOTAL AREA = 0.2± AC.(TOWN)

RODRIGO O. MAEGAWA
ITEM NO. (107)
DRAINAGE EASEMENT = 140± S.F.(1)
TEMP. CONST. RIGHTS = 735± S.F.(1)
TOTAL AREA = 2.3± AC.(TOWN)

CORA A. SWALEC TRUSTEE
JOHN J. SWALEC, JR. TRUSTEE
CORA A. SWALEC LIVING TRUST
ITEM NO. (109)
TEMP. CONST. RIGHTS = 0.05± AC.(1)
TOTAL AREA = 5.89± AC.(D.O.T. FILE NO. 10-472)

EXISTING R/W
OLD COUNTY ROAD TO E.O.P.
PENOBSCOT COUNTY RECORDS
VOLUME 9, PAGE 500
1883, 4 RODS

W.I.N. 011577.00

SYMBOLS

- (WELL)
- BREAKING LAST LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE
- LIMITS OF TOWN RIGHT OF WAY (T.O.W.R.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- IP or ● IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		D.S.G.
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
HAMPDEN
RIGHT OF WAY MAP

REVISIONS				PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD					
NO.	DATE	DESCRIPTION	BY	NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 13 OF 14	

SHEET NUMBER
212
OF 213

Filename: ...\00\ROW\MSTA\214_RWPLAN14.dgn Username: diona.grady Date:2/21/2019 Division: ROW

HUGHES SUBDIVISION
BY ANDERSON - NICHOLS
DATED: JANUARY 17, 1984
P.C.R.D. MAP FILE D41 - 84

GRID 19XX ZONE 4007

CARRIAGE LANE
PLAN OF
HUGHES SUBDIVISION
66

DANIEL C. MILLER
ITEM NO. (111)
TEMP. CONST. RIGHTS = 1485± S.F.(1)
TOTAL AREA = 21,165± S.F.(PLAN)

SHIRLEY A. FONTAINE

BRIDGET FOWLER

MATTHEW J. DEROSBY

HILLSIDE DRIVE

EXIST.
INLET DRAIN. STRUCTURE
SEE D.O.T. FILE NO. 10-472

370±
S.F.

S.E.L.

TEMP.

CONST.
1485± S.F.

LIMITS

106 107 108 109 110

+64± +70± +35 +40±

N.53°-45'-24.6"E.

1173.80'

U.S. ROUTE 1A & ROUTE 9
S.H. "88"

TO BANGOR

END B.L.

0+000

0.05± AC.
TEMP.

CONST.

LIMITS

REMOVE REMOVE

SEE D.O.T. FILE NO. 10-472

CORA A. SWALEC TRUSTEE
JOHN J. SWALEC, JR. TRUSTEE
CORA A. SWALEC LIVING TRUST
ITEM NO. (109)
TEMP. CONST. RIGHTS = 0.05± AC.(1)
TOTAL AREA = 5.89± AC.(D.O.T. FILE NO. 10-472)

REBECCA VIGUE

PAUL RICHARD VOM EIGEN, JR.

NOTE:
SEE SHEET NO. 9
FOR ITEM NO. (110)

EXISTING R/W
OLD COUNTY ROAD TO E.O.P.
PENOBSCOT COUNTY RECORDS
VOLUME 9, PAGE 500
1883, 4 RODS
ALSO SEE D.O.T. FILE NO. 10-472

W.I.N. 011577.00

SYMBOLS
- IP or ● IPF (IRON PIPE or PIN FOUND)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- (TRAVERSE POINT)
- (WELL)
- CONSTRUCTION BASELINE
- PROPERTY LINE
- LIMITS OF R.O.W. (RIGHT PORTION, L.O.W.P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	B.D.M.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

HAMPDEN
RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK						
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

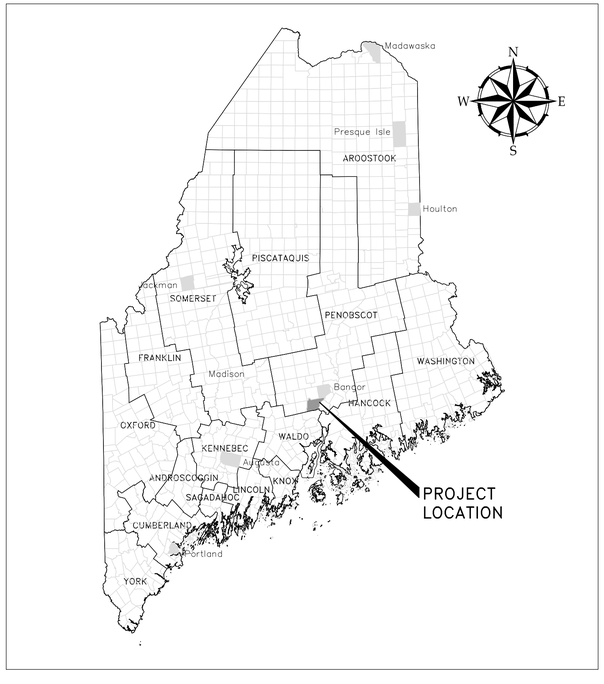
STATE HIGHWAY "88"
U.S. ROUTE 1A
HAMPDEN PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. STP-1157(700)X

JULY 2018	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 10-512
SCALE 1" = 25'	SHEET 14 OF 14	

SHEET NUMBER
213
OF 213

TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT HAMPDEN, MAINE

GRIST MILL BRIDGE UTILITY CROSSING AND SEWER REPLACEMENT



PROJECT LOCATION MAP

50 0 50 100
scale mile

PROJECT NO. 0213302.15

FEBRUARY, 2019

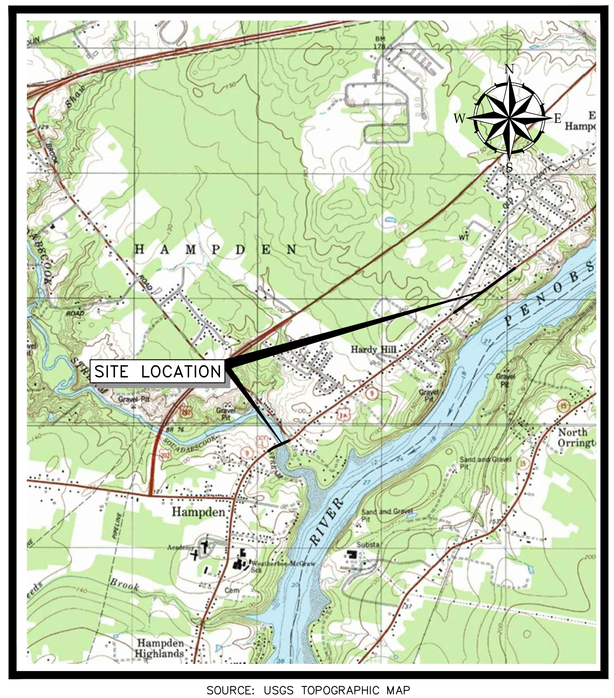
ISSUE FOR BID

2019.02.13
STATE OF MAINE
JAMES D. WILSON
No. 8592
REGISTERED PROFESSIONAL ENGINEER

WOODARD & CURRAN

One Merchants Plaza, Suite 501
Bangor, Maine 04401
800. 564.2333 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS



SOURCE: USGS TOPOGRAPHIC MAP

SITE LOCATION MAP

1/2 0 1
scale mile

2000 0 2000 4000
scale feet

SHEET INDEX

SHEET NO.	SHEET TITLE
GENERAL	
G-000	COVER SHEET
G-001	SHEET INDEX AND GENERAL NOTES
CIVIL	
C-101	PROPOSED UTILITY PLAN
C-102	TEMPORARY UTILITY PLAN AND DETAIL
C-103	PROPOSED SEWER PROFILE
C-104	PROPOSED FORCE MAIN PROFILE
C-105	PROPOSED WATER MAIN PROFILE
C-106	BRIDGE FRAMING PLAN AND SECTION
C-107	U.S. ROUTE 1A PLAN & PROFILE STA. 91+00 TO STA. 97+00
C-108	U.S. ROUTE 1A PLAN & PROFILE STA. 97+00 TO STA. 104+00
C-109	U.S. ROUTE 1A PLAN & PROFILE STA. 104+00 TO MOUNTAIN VIEW DRIVE
C-201	CIVIL DETAILS 1
C-202	CIVIL DETAILS 2
C-203	CIVIL DETAILS 3
C-204	CIVIL DETAILS 4
C-205	CIVIL DETAILS 5
STRUCTURAL	
S-101	BRIDGE SUPPORT PLAN & DETAILS
ELECTRICAL	
E-001	ELECTRICAL LEGEND
E-101	ELECTRICAL SITE PLAN
E-201	ELECTRICAL DETAILS SCHEDULES AND RISER DIAGRAM

GENERAL NOTES

1. HIGHWAY AND BRIDGE BASE COMPILED FROM PLANS PROVIDED BY THE MAINE DEPARTMENT OF TRANSPORTATION AS FOLLOWS:
   HAMPDEN, PENOBSCOT COUNTY, U.S. ROUTE 1A, PROJECT NO. STP-1157(700)X
   GRIST MILL BRIDGE OVER SOUADABSCOOK STREAM, HAMPDEN, PENOBSCOT COUNTY, PROJECT NO. STP-2169(200)
2. IN THE EVENT THAT DISCREPANCIES OR CONFLICTS BETWEEN MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) SPECIFICATIONS SPECIAL PROVISIONS, AND PLANS OCCUR WITH THE WATER/SEWER UTILITIES SPECIFICATIONS, SPECIAL PROVISIONS AND PLANS, MAINEDOT OR MORE RESTRICTIVE SHALL PREVAIL.
3. THE CONSTRUCTION OF THE PROPOSED WATER MAIN, SEWER MAIN, SERVICES AND APPURTENANCES ARE BEING COMPLETED IN CONJUNCTION WITH A MAINEDOT ROADWAY CONSTRUCTION PROJECT. THE CONTRACTOR SHALL COORDINATE WORK SEQUENCING TO ENSURE THAT ALL WORK ELEMENTS ASSOCIATED WITH THE WATER AND SEWER MAIN INSTALLATIONS AND THE ROAD RECONSTRUCTION/REHABILITATION ARE COMPLETED WITHIN THE SCHEDULE REQUIRED BY THE MAINEDOT CONTRACT DOCUMENTS.
4. THIS CONTRACT IS EXPECTED TO BE FUNDED IN WHOLE OR IN PART BY THE STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) CLEAN WATER STATE REVOLVING LOAN FUND (CWSRF) PROGRAM. NEITHER THE STATE OF MAINE NOR ANY OF ITS DEPARTMENTS, AGENCIES, OR EMPLOYEES IS OR WILL BE A PARTY TO THE CONTRACT. THE WORD AGENCY OR AGENCY IN THE CONTRACT DOCUMENTS REFERS TO THE DEP AND ALL OTHER INVOLVED FUNDING AGENCIES. COMPLIANCE WITH DEP REQUIREMENTS, FEDERAL REQUIREMENTS AND THE FOLLOWING ARE REQUIRED AND AS PROVIDED IN THE CONTRACT DOCUMENTS.
5. THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF BUY AMERICA IN ACCORDANCE WITH FEDERAL REGULATION 23 CRF 635.410 SECTION 1518. SPECIFIC REQUIREMENTS ARE PRESENTED IN MAINEDOT STANDARD SPECIFICATION SECTION 100, APPENDIX A, SECTION 3.A, BUY AMERICA.
6. FOR ALL WORK, THE PROJECT IS SUBJECT TO AMERICAN IRON AND STEEL REQUIREMENTS IN ACCORDANCE WITH PUBLIC LAW 113-76, SECTION 436.
7. PROVIDE MINIMUM SEPARATION BETWEEN WATER MAINS AND SEWER MAINS AS NOTED ON THIS SHEET AND SHOWN ON THE DRAWINGS. PROVIDE MINIMUM 3 FOOT HORIZONTAL SEPARATION BETWEEN WATER OR SEWER MAINS AND STORM DRAINAGE PIPES AND/OR STRUCTURES UNLESS OTHERWISE NOTED. PROVIDE AT MINIMUM OF 1 FOOT VERTICAL SEPARATION PLUS INSULATION THICKNESS AS REQUIRED WHERE WATER OR SEWER MAINS CROSS STORM DRAINAGE PIPES OR STRUCTURES. SEE DRAWINGS FOR ADDITIONAL UTILITY SEPARATION INFORMATION.
8. IF A CONFLICT EXISTS BETWEEN THE PROPOSED WATER MAIN/SEWER MAIN AND STORMDRAIN FEATURES, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO ADJUST THE WATER/SEWER MAIN TO AVOID THE CONFLICT. THE COST TO RESOLVE THE CONFLICTS DURING INSTALLATION BETWEEN THE PROPOSED WATER/SEWER MAIN AND PROPOSED STORMDRAIN THAT COULD HAVE BEEN AVOIDED BY COORDINATING WITH THE MAINEDOT, TOWN OF HAMPDEN, HAMPDEN WATER DISTRICT, AND THE ENGINEER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. ABANDONED WATER/SEWER MAINS AND SERVICES WITHIN THE MAINEDOT RIGHT OF WAY SHALL BE EITHER REMOVED, DEMOLISHED OR FILLED WITH FLOWABLE FILL.

GENERAL NOTES (WATER)

1. THE LOCATION, TYPE AND SIZE OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER UNDERGROUND STRUCTURES SHOWN ON THE DRAWINGS ARE NOT WARRANTED TO BE EXACT NOR IS IT WARRANTED THAT ALL UNDERGROUND STRUCTURES ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. COORDINATE WATER MAIN CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, EMERGENCY SERVICES, TOWN OFFICE, AND M.D.O.T. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK TO ALLOW SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF ALL BURIED UTILITIES. CONTRACTOR SHALL ALSO CONTACT "DIG SAFE", TELEPHONE NO. 800-225-4977, REPAIR OF ANY DAMAGED UTILITY WILL BE INCIDENTAL.
3. CONTRACTOR SHALL PROVIDE ALL LABOR AS REQUIRED TO PERFORM THE WORK AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL MATERIALS. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL CODES.
4. BRACING OF UTILITY POLES, WHERE REQUIRED, SHALL BE INCIDENTAL TO THE INSTALLATION OF THE NEW WATER MAIN AND NO SEPARATE PAYMENT SHALL BE MADE.
5. RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS TO ORIGINAL FINISH (GRAVEL, PAVEMENT, GRASS, ETC.) UNLESS OTHERWISE NOTED ON PLANS. RESTORATION OF GRAVEL ROAD AND DRIVEWAY SURFACES AND LAWNS DAMAGED BY THE CONTRACTOR SHALL BE INCIDENTAL TO THE PROJECT.
6. PROPOSED HYDRANT LOCATIONS MAY VARY AT TIME OF CONSTRUCTION, PER OWNER'S REQUEST.
7. PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT SHALL BE RESET AT THE WATER MAIN CONTRACTOR'S EXPENSE, BY A REGISTERED LAND SURVEYOR APPROVED BY THE ENGINEER.
8. ALL NEW WATER MAIN AND OTHER PIPING WILL HAVE MINIMUM 6 FT. OF COVER UNLESS NOTED OTHERWISE OR APPROVED BY THE ENGINEER. IN ADDITION, IT IS ASSUMED THAT THE EXISTING WATER MAIN IS LOCATED APPROXIMATELY 5.5 FT. BELOW GROUND SURFACE. DESIGN CHANGES TO THE NEW WATER MAIN CAUSED BY THE EXISTING WATER MAIN BEING AT A DEPTH OTHER THAN 6 FT. MUST BE APPROVED BY THE ENGINEER.
9. PROVIDE 10 FT. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER MAINS. WHEN THIS HORIZONTAL SEPARATION IS NOT POSSIBLE, INSTALL BOTTOM OF WATER MAIN AT LEAST 18 IN. ABOVE TOP OF SEWER MAIN. SEE DRAWINGS FOR ADDITIONAL INFORMATION.
10. FOR WATER MAIN CROSSING SEWER MAIN TRENCHES, PROVIDE AT LEAST 18 IN. BETWEEN BOTTOM OF WATER MAIN AND TOP OF SEWER. SEPARATION BETWEEN THE WATER AND SEWER CAN BE REDUCED TO 12" IF APPROVED BY THE OWNER AND ENGINEER.
12. INSULATE ALL LIQUID CARRYING PIPES WITH LESS THAN 5.0 FEET OF COVER, OR WHERE DIRECTED BY THE ENGINEER. PROVIDE CLOSED-CELL EXTRUDED POLYSTYRENE (XPS) RIGID FOAM, EQUAL TO "STYROFOAM" BRAND SQUARE EDGE BY DOW CHEMICAL, FORMULA 250 XPS BY OWENS CORNING, OR ENGINEER APPROVED EQUAL. 2" THICK BY 4' WIDE, UNLESS OTHERWISE NOTED.
13. INSTALL THRUST BLOCKS AT ALL BENDS IN WATER MAIN. REFER TO DRAWINGS FOR INSTALLATION DETAILS.
14. EXISTING WATER SERVICES ARE ASSUMED TO BE EITHER 1" OR 3/4" COPPER, UNLESS NOTED OTHERWISE. ALL PROPERTIES ARE ASSUMED TO HAVE WATER SERVICES, UNLESS NOTED OTHERWISE.
15. DECHLORINATION OF DISINFECTION WATER WILL BE A REQUIREMENT DURING THE PIPE DISINFECTION PROCESS.
16. CONTRACTOR TO SPRAY INSIDE OF PIPE WITH SODIUM HYPOCHLORITE AND BLOCK PIPE OVERNIGHT WITH SANITARY WATERTIGHT PLUG TO PREVENT ANIMALS FROM ENTERING PIPE. FOR INFORMATION ON WATERTIGHT PLUG CONTACT HAMPDEN WATER DISTRICT.
17. FIRE HYDRANTS MUST REMAIN ACTIVE AT ALL TIMES.
18. THE LOCATIONS OF ALL PROPERTY LINES AND RIGHT OF WAYS ARE APPROXIMATE (SHOWN FOR REFERENCE ONLY), UNLESS NOTED OTHERWISE. PROPERTY LINES AND RIGHT OF WAYS SHOWN ARE NOT INTENDED TO REPRESENT LEGAL BOUNDARIES.
19. WHEN CONNECTING THE NEW WATER MAIN TO THE EXISTING WATER MAIN, THE CONTRACTOR SHALL PROVIDE A MECHANICAL JOINT SOLID SLEEVE COUPLING PER THE SPECIFICATIONS.
20. THE REPAIR OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ENCOUNTERED DURING CONSTRUCTION, NOT OTHERWISE PROPOSED TO BE REPLACED, SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT BE ELIGIBLE FOR ADDITIONAL PAYMENT.
21. CONTRACTOR SHALL MAINTAIN WATER SERVICE TO RESIDENTS WITHIN THE PROJECT AREA AT ALL TIMES. CONTRACTOR SHALL COORDINATE CONNECTION OF SERVICES TO THE NEW WATER MAIN WITH THE HAMPDEN WATER DISTRICT.
22. CONTRACTOR SHALL PRESSURE TEST, FLUSH, AND DISINFECT WATER MAIN PER SPECIFICATION REQUIREMENTS.
23. THE CONTRACTOR SHALL PROVDE TEMPORARY WATER SERVICE AS SHOWN ON THE DRAWINGS AND SPECIFIED IN SECTION 01 51 38 TEMPORARY WATER BYPASS. THE CONTRACTOR SHALL PROVIDE EQUIPMENT AND LABOR AS REQUIRED TO INSTALL TEMPORARY SERVICE PIPE AND CONNECTIONS. THE HAMPDEN WATER DISTRICT WILL FURNISH THE BACKFLOW PREVENTER FOR THE TEMPORARY WATER PIPE. REPLACEMENT OF WATER MAINS CANNOT COMMENCE UNTIL ALL TEMPORARY SERVICE IS FULLY FUNCTIONAL AND APPROVED FOR USE BY HAMPDEN WATER DISTRICT. CONTRACTOR SHALL PROVIDE A TEMPORARY WATER PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER. TEMPORARY WATER PIPING MUST BE PRESSURE TESTED AND DISINFECTED PER SECTION 33 01 10.58 PRIOR TO USE.
24. HAMPDEN WATER DISTRICT SHALL OPERATE ALL VALVES AND CURB STOPS. THE CONTRACTOR SHALL NOT BE PERMITTED TO OPEN OR CLOSE VALVES AND CURB STOPS WITHOUT OWNER'S PERMISSION.

GENERAL NOTES (SEWER)

1. EXISTING SEWER NOT SHOWN IN PROFILE FOR CLARITY.
2. THE LOCATION, TYPE AND SIZE OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER UNDERGROUND STRUCTURES SHOWN ON THE DRAWINGS ARE NOT WARRANTED TO BE EXACT NOR IS IT WARRANTED THAT ALL UNDERGROUND STRUCTURES ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. COORDINATE SEWER MAIN CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, EMERGENCY SERVICES, TOWN OFFICE, AND M.D.O.T. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK TO ALLOW SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF ALL BURIED UTILITIES. CONTRACTOR SHALL ALSO CONTACT "DIG SAFE", TELEPHONE NO. 1-888-344-7233, REPAIR OF ANY DAMAGED UTILITY WILL BE INCIDENTAL.
4. CONTRACTOR SHALL PROVIDE ALL LABOR AS REQUIRED TO PERFORM THE WORK AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL MATERIALS. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL CODES.
5. BRACING OF UTILITY POLES, WHERE REQUIRED, SHALL BE INCIDENTAL TO THE INSTALLATION OF THE NEW SEWER MAIN AND NO SEPARATE PAYMENT SHALL BE MADE.
6. RESTORE ALL AREAS DISTURBED BY CONTRACTOR'S OPERATIONS TO ORIGINAL FINISH (GRAVEL, PAVEMENT, GRASS, ETC.) UNLESS OTHERWISE NOTED ON PLANS. RESTORATION OF GRAVEL ROAD AND DRIVEWAY SURFACES AND LAWNS DAMAGED BY THE CONTRACTOR SHALL BE INCIDENTAL TO THE PROJECT.
7. PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT SHALL BE RESET AT CONTRACTOR'S EXPENSE, BY A REGISTERED LAND SURVEYOR APPROVED BY THE ENGINEER.
8. THE LOCATIONS OF ALL PROPERTY LINES AND RIGHT OF WAYS ARE APPROXIMATE (SHOWN FOR REFERENCE ONLY), UNLESS NOTED OTHERWISE. PROPERTY LINES AND RIGHT OF WAYS SHOWN ARE NOT INTENDED TO REPRESENT LEGAL BOUNDARIES.
9. ALL PROPERTIES ARE ASSUMED TO HAVE SEWER SERVICES, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CONNECT EXISTING SEWER SERVICES TO NEW 4" DIA. SDR 35 PVC SERVICE, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR AS DIRECTED BY ENGINEER. NEW SEWER SERVICES SHALL BE PROVIDED FROM THE NEW SEWER MAIN TO THE RIGHT-OF-WAY, OR AS INDICATED ON PLANS. PROVIDE NEW 6" DIA. SDR 35 PVC SERVICES WHERE SHOWN OR WHERE DIRECTED BY THE OWNER OR ENGINEER.
10. EXISTING SEWER SERVICES SHOWN HAVE BEEN LOCATED BASED ON REPORTS FROM CLOSED CIRCUIT CAMERA INSPECTIONS CONDUCTED IN 2017 BY TED BERRY COMPANY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING WHICH SERVICES ARE ACTIVE AND CONNECTING THEM TO THE NEW SEWER MAIN. A MINIMUM OF ONE SERVICE SHALL BE PROVIDED FOR EACH LOT. CONTRACTOR IS RESPONSIBLE FOR DETERMINING LOCATION OF EXISTING SERVICES AT RIGHT-OF-WAY.
11. CONTRACTOR SHALL MAINTAIN CONTINUOUS SEWER CONVEYANCE THROUGHOUT THE PROJECT AND SEWER SERVICE TO RESIDENTS WITHIN THE PROJECT AREA AT ALL TIMES. CONTRACTOR SHALL COORDINATE CONNECTION OF SERVICES TO THE NEW SEWER MAIN WITH THE TOWN OF HAMPDEN. CONTRACTOR SHALL FLUSH AND PROVIDE VIDEO INSPECTION OF NEW SEWER MAIN PER THE SPECIFICATIONS.
12. ALL NEW SEWERS AND OTHER PIPING WILL HAVE A MINIMUM 5.0 FEET OF COVER UNLESS NOTED OTHERWISE OR APPROVED BY THE ENGINEER. ALL SERVICES ARE TO HAVE A MINIMUM OF 5.0 FEET OF COVER WHERE POSSIBLE.
13. INSULATE ALL LIQUID CARRYING PIPES WITH LESS THAN 5.0 FEET OF COVER, OR WHERE DIRECTED BY THE ENGINEER. PROVIDE CLOSED-CELL EXTRUDED POLYSTYRENE (XPS) RIGID FOAM, EQUAL TO "STYROFOAM" BRAND SQUARE EDGE BY DOW CHEMICAL, FORMULA 250 XPS BY OWENS CORNING, OR ENGINEER APPROVED EQUAL. 2" THICK BY 4' WIDE, UNLESS OTHERWISE NOTED.
14. ALL WORK ON ITEMS SCHEDULED FOR REMOVAL, DISPOSAL, PLUGGING, OR ABANDONMENT SHALL BE PERFORMED AS INDICATED ON THE DRAWINGS AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO OTHER PAYMENT SHALL BE MADE.
15. STATIONS AND OFFSETS FOR MANHOLES ARE SHOWN TO THE CENTER OF EACH.
16. ALL INVERT INFORMATION PROVIDED IS INSIDE FACE OF STRUCTURE.
17. WHEREVER THE NEW SEWER CONNECTS TO AN EXISTING MANHOLE TO REMAIN, THE WORK INCLUDES REMOVAL OF THE EXISTING INVERT AND RECONSTRUCTION AS SPECIFIED. ALSO INCLUDES PLUGGING OLD INVERTS TO SEWERS TO BE DEMOLISHED.
18. THE REPAIR OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ENCOUNTERED DURING CONSTRUCTION, NOT OTHERWISE PROPOSED TO BE REPLACED, SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT BE ELIGIBLE FOR ADDITIONAL PAYMENT.
19. REPAIR OF ANY SEWER SERVICE DAMAGED BY INSTALLATION OF ANOTHER UTILITY AND NOT OTHERWISE PROPOSED AS BEING REPLACED SHALL BE PERFORMED USING STAINLESS STEEL REINFORCED COUPLINGS, EQUAL TO FERNCO STRONG BACK RC 1000 SERIES. BEDDING AND COMPACTION WILL BE AS DIRECTED BY THE OWNER AND ENGINEER. REPAIR IS INCIDENTAL TO THE INSTALLATION OF THE WATER MAIN.
20. INSTALL THRUST BLOCKS AT ALL BENDS IN SEWER FORCE MAIN. REFER TO DRAWINGS FOR INSTALLATION DETAILS.
21. TEMPORARY SEWER IS REQUIRED AT THE GRIST MILL BRIDGE CROSSING AS SHOWN ON THE DRAWINGS AND SPECIFIED IN SECTION 01 51 40 TEMPORARY SEWAGE BYPASS.

One Merchants Plaza, Suite 501
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STATE OF MAINE
JAMES D. WILSON
No. 8592
LICENSED PROFESSIONAL ENGINEER
2019.02.13

REV	DESCRIPTION	DATE
-	ISSUE FOR BID	02/13/19

DESIGNED BY: KMC | CHECKED BY: JDW
DRAWN BY: JDE | 2133015-c-001.dwg

SHEET INDEX AND GENERAL NOTES

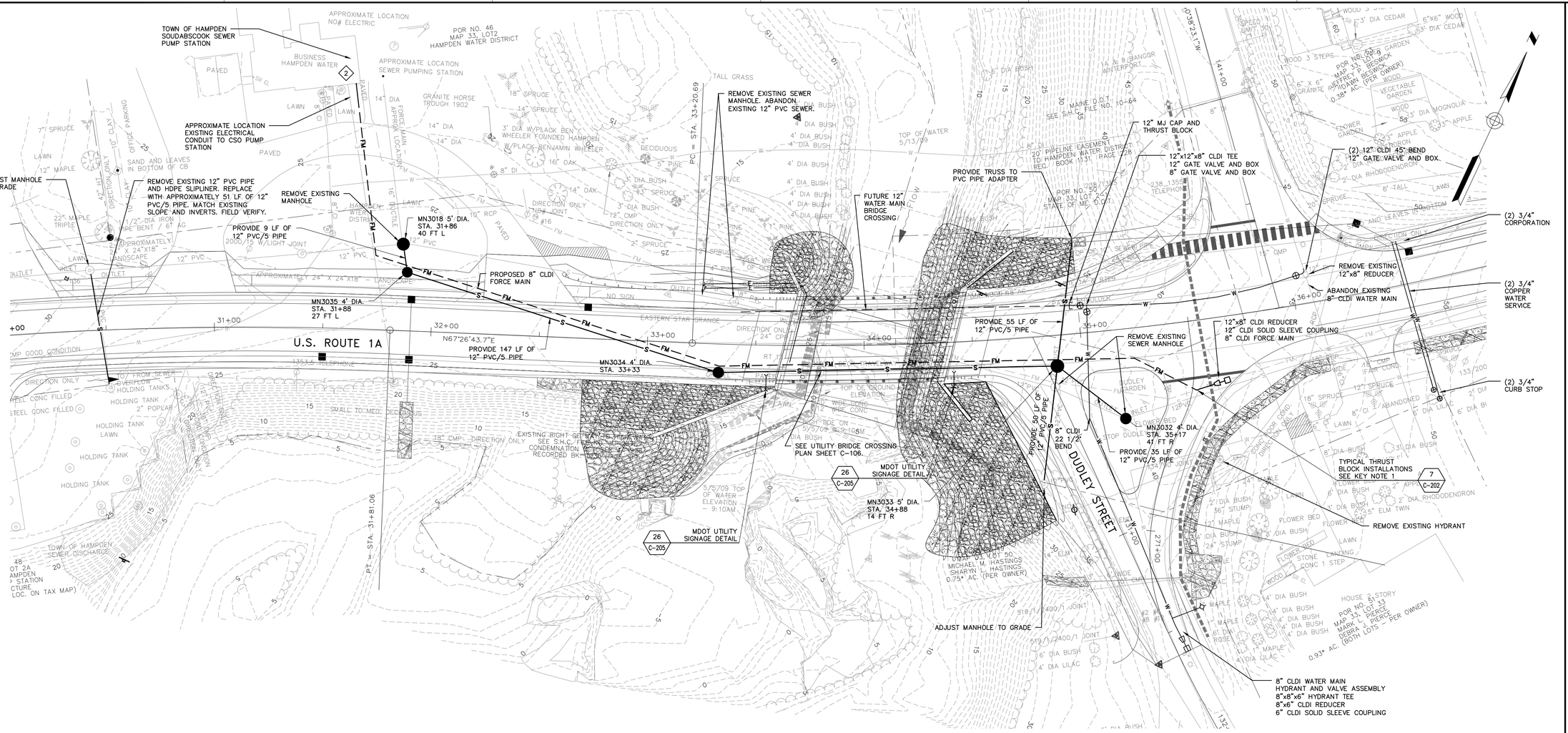
TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE
UTILITY CROSSING AND SEWER REPLACEMENT

JOB NO.: 02133302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 1 OF 19

G-001

\\woodardcurran.net\shared\Projects\02133302.15 Hampden ME SD Grist Mill Bridge Design\wip\Cad Drawings\General\2133015-G-001.DWG, Feb 12, 2019 - 9:07am



PROPOSED GRIST MILL BRIDGE UTILITY CROSSING PLAN

SCALE: 1"=25'

25' 0 25' 50'

BAR SCALE
1" = 25'
CHECK GRAPHIC SCALE BEFORE USING

CIVIL KEY NOTES

1. PROVIDE CONCRETE THRUST BLOCKS AT ALL FITTINGS AND DIRECTIONAL CHANGES IN WATER MAIN AND SEWER FORCE MAIN.
2. PROVIDE SLEEVE-TYPE COUPLING (TYPE CO1) AT EXISTING PUMP STATION BUILDING PER SECTION 40 05 14 TO JOIN EXISTING PIPING TO NEW FORCE MAIN.

CIVIL NOTES

1. SEE SHEET C-102 FOR TEMPORARY UTILITY SERVICE.
2. SEE SHEET C-106 FOR BRIDGE CROSSING UTILITY LAYOUT.
3. PROVIDE SEWER FORCE MAIN UTILITY LOCATION TRACER WIRE AS FOLLOWS: FROM PUMP STATION BUILDING TO TERMINATION IN MANHOLE MN3034 AND FROM TERMINATION IN MANHOLE MN3033 TO GROUNDING ANODE AT CONNECTION TO EXISTING 12" FORCE MAIN.
4. PROVIDE CONCRETE UTILITY ENCASEMENT WHERE COVER IS LESS THAN 4'-6" AT ALL GUARD RAIL CROSSING LOCATIONS. SEE DETAIL 19 SHEET C-203.

SOURCE:

EXISTING HIGHWAY AND PROPOSED BRIDGE LAYOUT FROM DIGITAL PLANS BY T.Y.LIN INTERNATIONAL DATED DECEMBER 2018

One Merchants Plaza, Suite 501
Bangor, Maine 04401
800. 564.2333 | www.woodardcurran.com

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STATE OF MAINE
JAMES D. WILSON
No. 8592
REGISTERED PROFESSIONAL ENGINEER
2019.02.12

REV	DESCRIPTION	DATE
-	ISSUE FOR BID	02/13/19

DESIGNED BY: KMC
DRAWN BY: JDE
CHECKED BY: JDW
213025-C-101_C-105.dwg

PROPOSED UTILITY PLAN

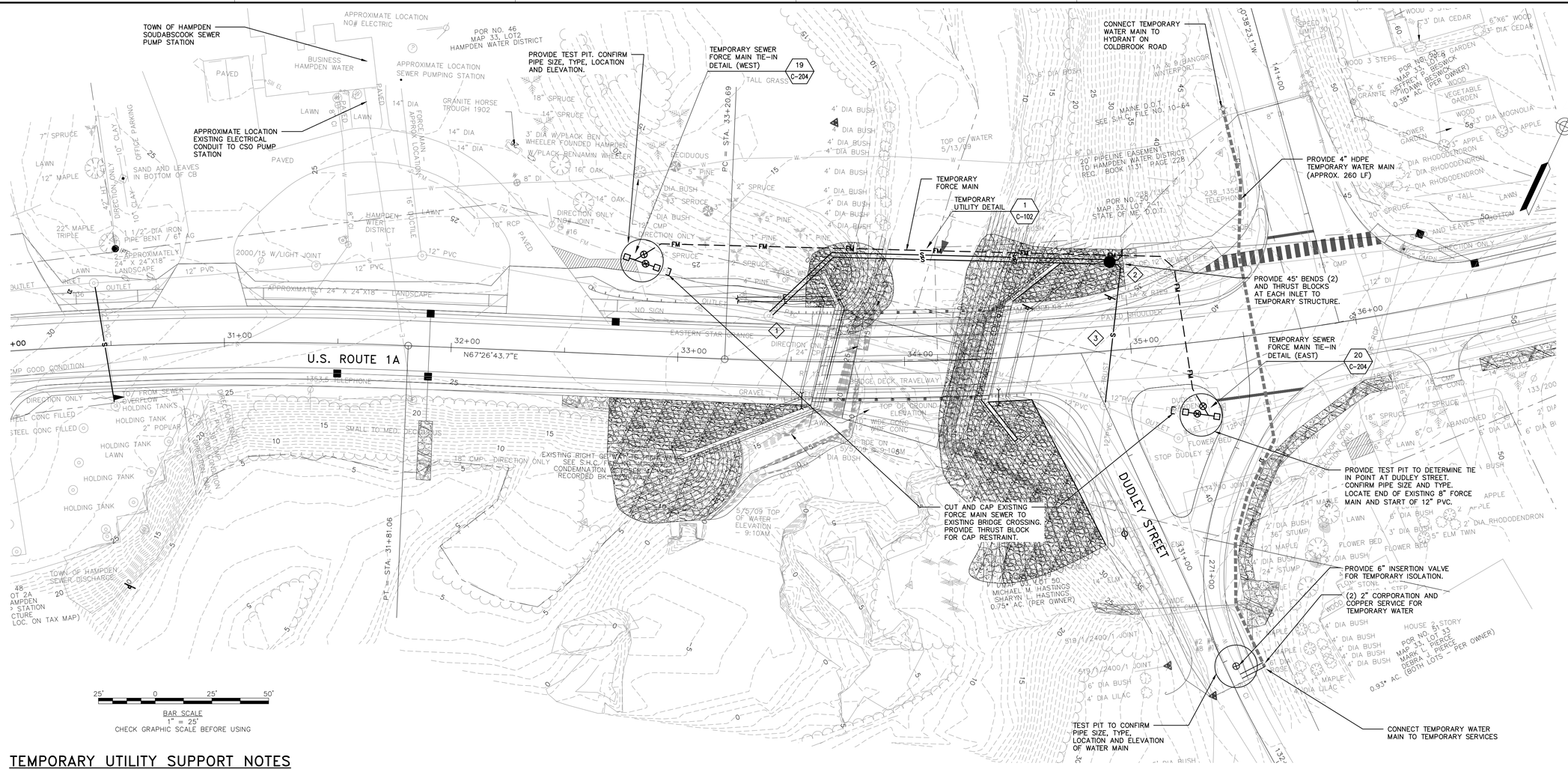
TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT HAMPDEN, MAINE

GRIST MILL BRIDGE UTILITY CROSSING AND SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 2 OF 19

C-101

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TEMPORARY UTILITY SUPPORT NOTES

1. GENERAL NOTES
   - 1.1. CONTRACTOR RESPONSIBLE FOR PROVIDING TEMPORARY UTILITY SUPPORTS THAT MEET THE FOLLOWING DESIGN LOADS AND CRITERIA LISTED BELOW. REFERENCE 'TEMPORARY UTILITY DETAIL' THIS SHEET.
   - 1.2. CONTRACTOR TO PROVIDE THE ENGINEER OF RECORD WITH ALL PERTINENT DOCUMENTS OF THE PROPOSED TEMPORARY UTILITY SUPPORT FOR APPROVAL, INCLUDING BUT NOT LIMITED TO: PLANS, CALCULATIONS, SPECIFICATIONS.
2. DESIGN LOADS AND CRITERIA, NOMINAL VALUES
   - 2.1. DEAD LOADS — 8"ø HDPE SDR11 — 8.50 LBS/FT
   - 2.2. LIVE LOADS — WATER WEIGHT (FULL 8"ø HDPE PIPE) — 16.5 LBS/FT
   - 2.3. WIND LOADS — WIND LOAD — 50 PSF
   - 2.4. SOIL DESIGN — BEARING CAPACITY — 1000 PSF

EXISTING CONDITIONS

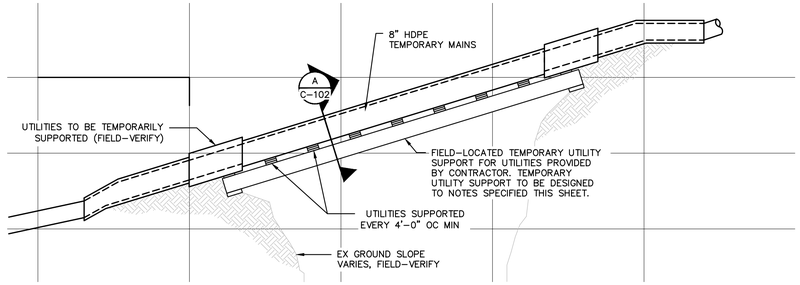
1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AS THEY RELATE TO NEW CONSTRUCTION. REPORT TO THE ENGINEER OF RECORD ALL OBSERVATIONS AND ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. WHERE DETAILS FOR SPECIFIC CONDITIONS ARE NOT SHOWN ON PLANS, USE DETAILS MOST NEARLY SIMILAR TO THE CONDITIONS SHOWN ON THE STRUCTURAL DRAWINGS AS DETERMINED BY THE STRUCTURAL ENGINEER. REPORT ANY COORDINATION ISSUES IMMEDIATELY TO THE ENGINEER OF RECORD.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR A SAFE AND EFFICIENT METHOD OF SHORING AND / OR BRACING THE STRUCTURE DURING ALL CONSTRUCTION PHASES. SUBMIT AN OUTLINE OF PROPOSED PROCEDURES BEFORE CONSTRUCTION COMMENCES.
4. STRUCTURAL MEMBERS SHALL NOT BE MODIFIED IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. IN THE EVENT OF A CONSTRUCTION OR FABRICATION ERROR, THE CONTRACTOR SHALL PREPARE A SKETCH WITH A PROPOSED REPAIR, AND SUBMIT IT TO THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING ANY CORRECTIVE WORK.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT THE EXISTING BUILDING ELEMENTS TO REMAIN DURING DEMOLITION. DON NOT CUT OR ALTER ANY OF THE EXISTING STRUCTURAL OR ARCHITECTURAL ELEMENTS TO REMAIN WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY DAMAGE TO EXISTING ELEMENTS TO REMAIN SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE.

SOURCE:

EXISTING HIGHWAY AND PROPOSED BRIDGE LAYOUT
FROM DIGITAL PLANS BY T.Y.LIN INTERNATIONAL
DATED DECEMBER 2018

TEMPORARY UTILITY PLAN

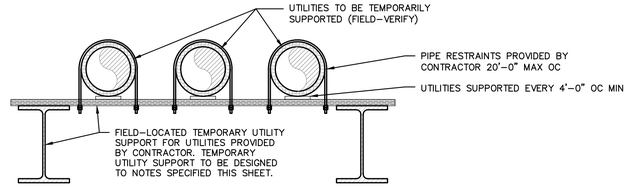
SCALE: 1"=25'



1 C-102 TEMPORARY UTILITY DETAIL
SCALE: NTS

KEY NOTES

1. CORE EXISTING MANHOLE FOR TEMPORARY OUTLET PIPES. RECONSTRUCT INVERT AND PROVIDE WATERTIGHT FLEXIBLE SEALS.
2. PROVIDE TEMPORARY GRAVITY SEWER INLET STRUCTURE. MINIMUM 4' DIAMETER PRECAST CONCRETE MANHOLE WITH CORED PIPE PENETRATIONS AND WATERTIGHT FLEXIBLE SEALS, WITH MINIMUM 26" CLEAR OPENING FRAME AND COVER OR HATCH. TEMPORARY STRUCTURE TO BE REMOVED UPON OWNER ACCEPTANCE OF PERMANENT UTILITY CROSSING.
3. REMOVE EXISTING 12" SEWER AND PROVIDE TEMPORARY 12" PVC/5 SEWER MAIN FROM EXISTING MH TO TEMPORARY INLET STRUCTURE. MIN. SLOPE TO EXCEED 0.004 FT/FT



SECTION A C-102
NOT TO SCALE

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STATE OF MAINE JAMES D WILSON No. 8592 REGISTERED PROFESSIONAL ENGINEER
2019.02.13

REV	DESCRIPTION	DATE
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TEMPORARY UTILITY PLAN AND DETAIL

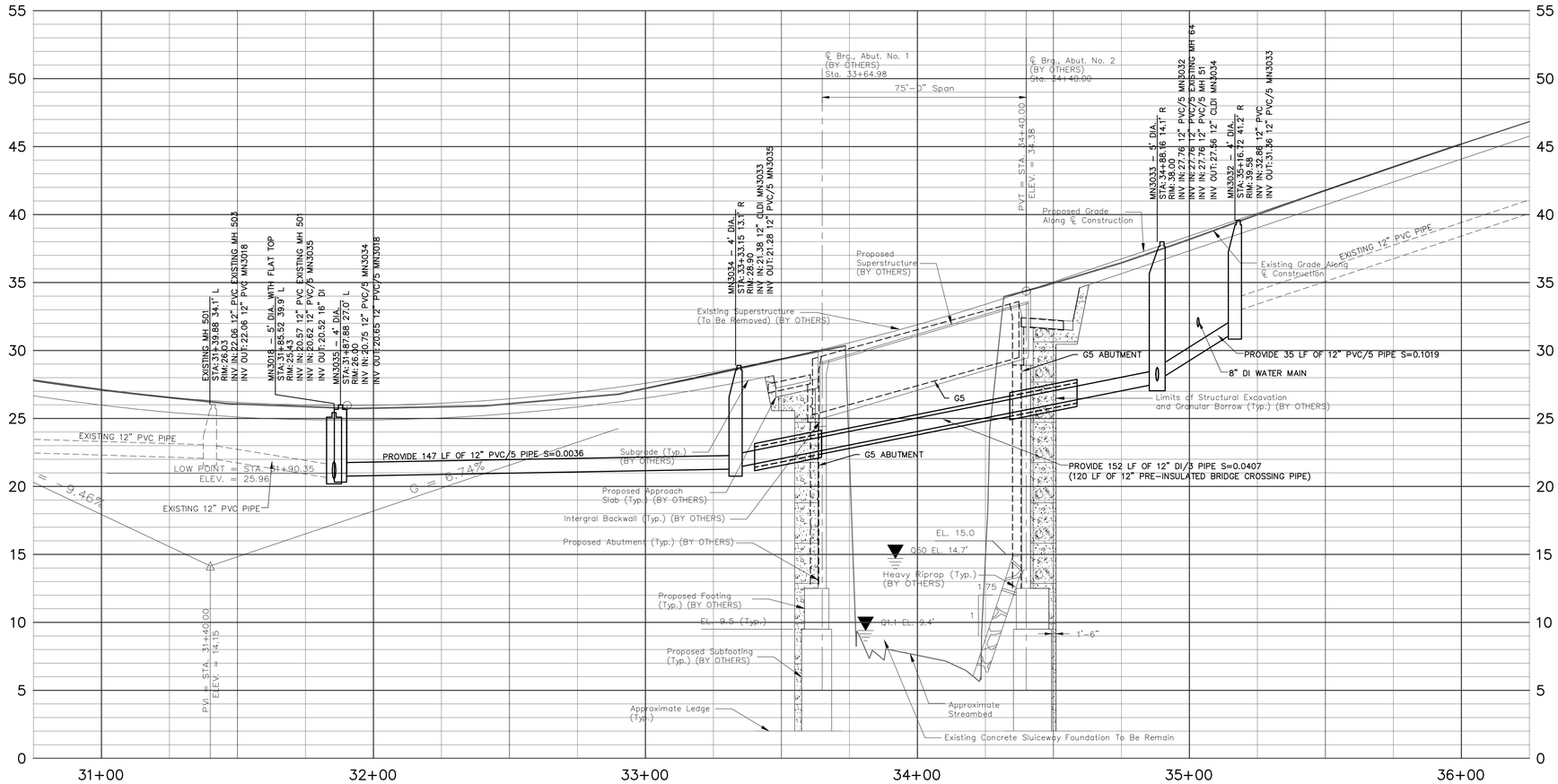
TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE
UTILITY CROSSING AND SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 3 OF 19

C-102

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PROPOSED SEWER PROFILE

SCALE: 1"=25' HORIZONTAL
1"=5' VERTICAL

25' 0 25' 50'
BAR SCALE
1" = 25'
CHECK GRAPHIC SCALE BEFORE USING

CIVIL NOTES

1. SEE SHEET C-106 FOR BRIDGE FRAMING PLAN DETAILS.

SOURCE:

PROFILE AND PROPOSED BRIDGE LAYOUT FROM DIGITAL PLANS BY T.Y.LIN INTERNATIONAL DATED DECEMBER 2018

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STATE OF MAINE
JAMES D WILSON
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2019.02.12

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PROPOSED SEWER PROFILE

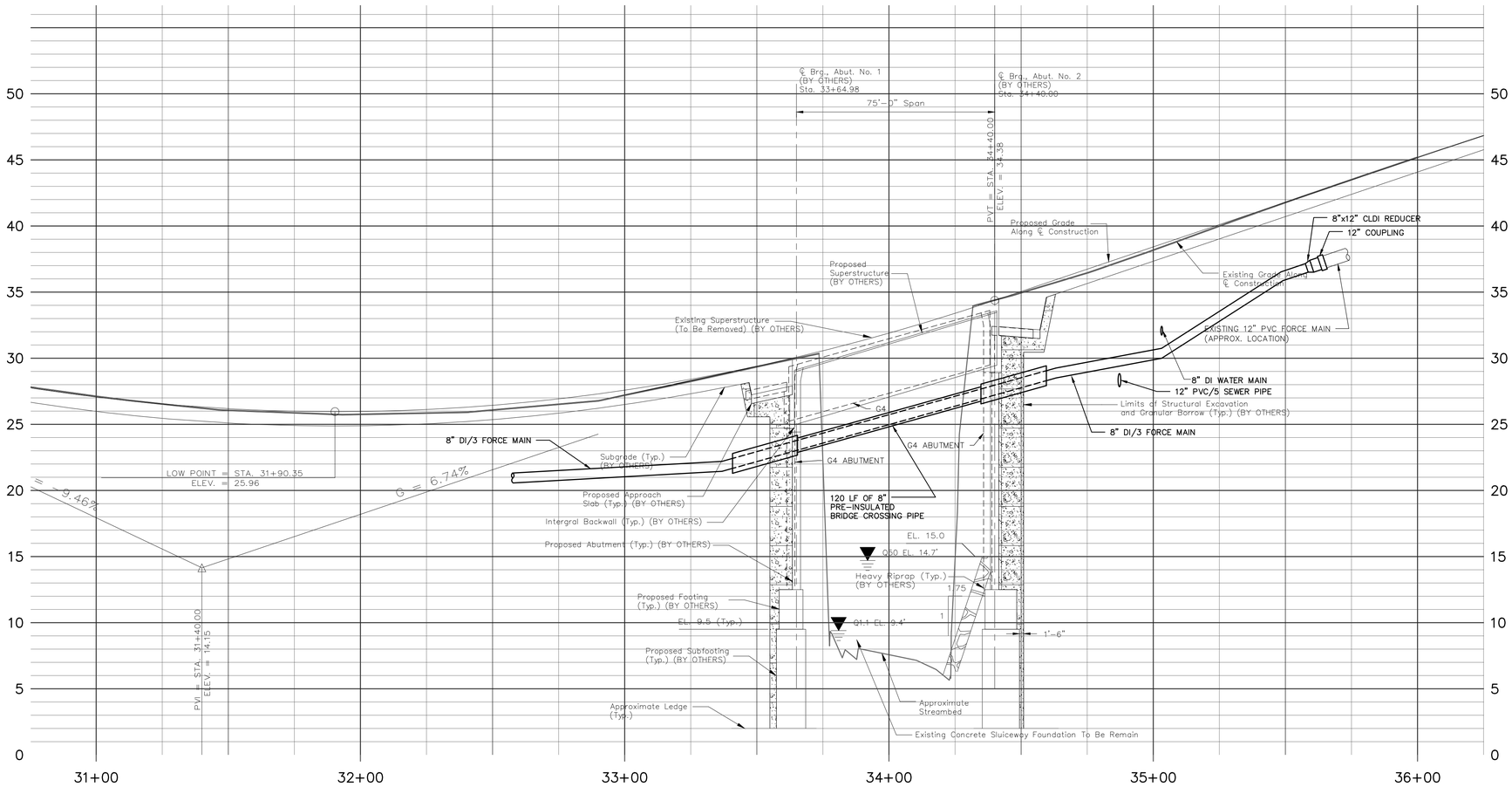
TOWN OF HAMPDEN AND
HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

CRIST MILL BRIDGE
UTILITY CROSSING AND
SEWER REPLACEMENT

JOB NO.: 02133302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 4 OF 19

C-103

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PROPOSED SEWER FORCE MAIN PROFILE

SCALE: 1"=25' HORIZONTAL
1"=5' VERTICAL

25' 0 25' 50'

BAR SCALE
1" = 25'
CHECK GRAPHIC SCALE BEFORE USING

SOURCE:

PROFILE AND PROPOSED BRIDGE LAYOUT FROM DIGITAL PLANS BY T.Y.LIN INTERNATIONAL DATED DECEMBER 2018

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PROPOSED FORCE MAIN PROFILE

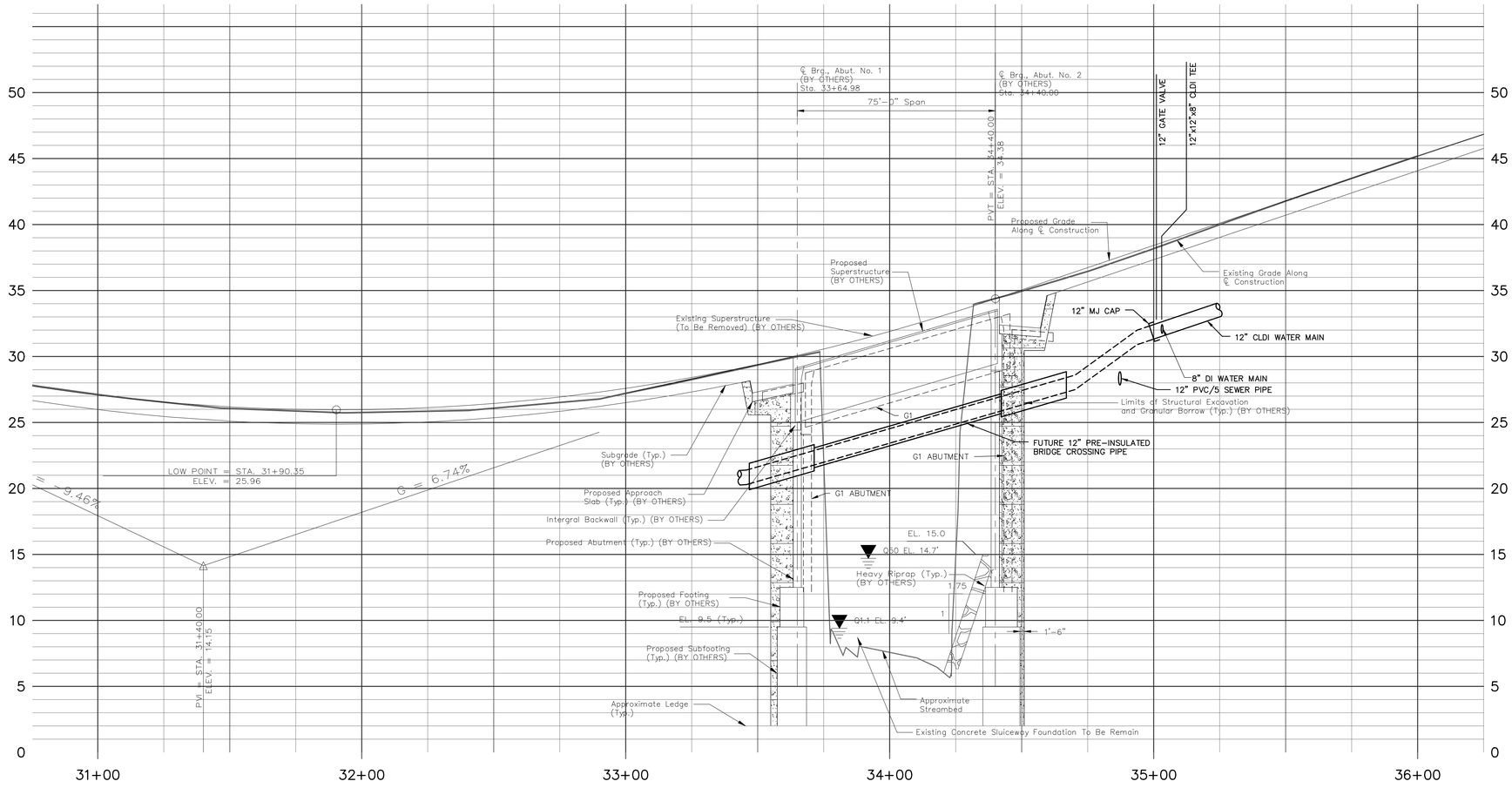
TOWN OF HAMPDEN AND
HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE
UTILITY CROSSING AND
SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: 1"=25'
SHEET: 5 OF 19

C-104

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PROPOSED WATER MAIN PROFILE

SCALE: 1"=25' HORIZONTAL
1"=5' VERTICAL

25' 0 25' 50'

BAR SCALE
1" = 25'
CHECK GRAPHIC SCALE BEFORE USING

CIVIL NOTES

1. WATER MAIN BRIDGE CROSSING PIPE IS NOT INCLUDED IN THE WORK OF THIS PROJECT AND IS SHOWN FOR REFERENCE PURPOSES ONLY.

SOURCE:

PROFILE AND PROPOSED BRIDGE LAYOUT FROM DIGITAL PLANS BY T.Y.LIN INTERNATIONAL DATED DECEMBER 2018

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STATE OF MAINE
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No. 8592
REGISTERED PROFESSIONAL ENGINEER
2019.02.12

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PROPOSED WATER MAIN PROFILE

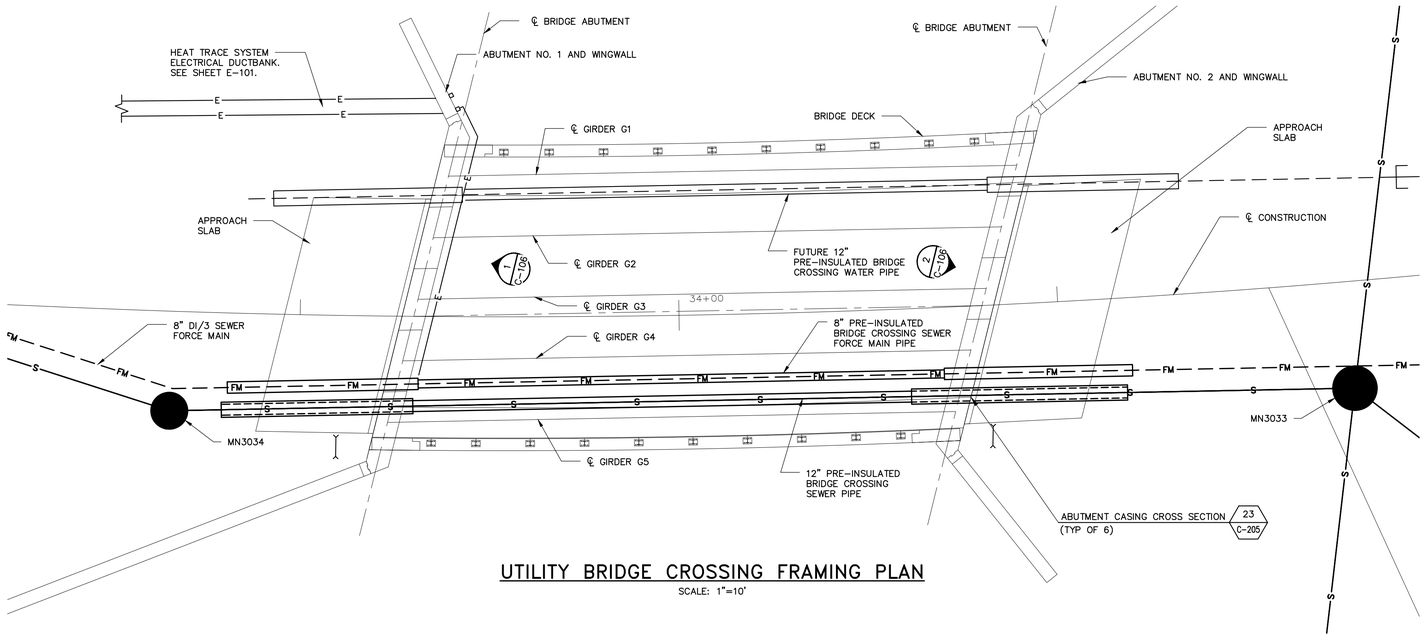
TOWN OF HAMPDEN AND
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HAMPDEN, MAINE

GRIST MILL BRIDGE
UTILITY CROSSING AND
SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 6 OF 19

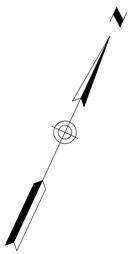
C-105

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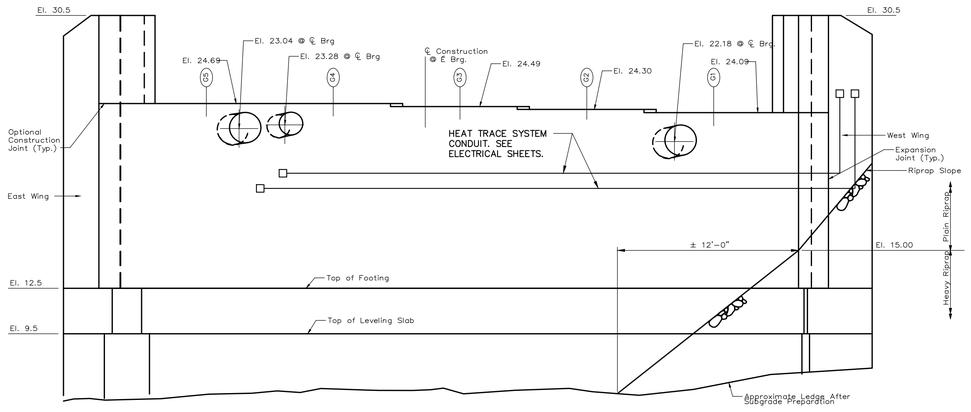
UTILITY BRIDGE CROSSING FRAMING PLAN

SCALE: 1"=10'



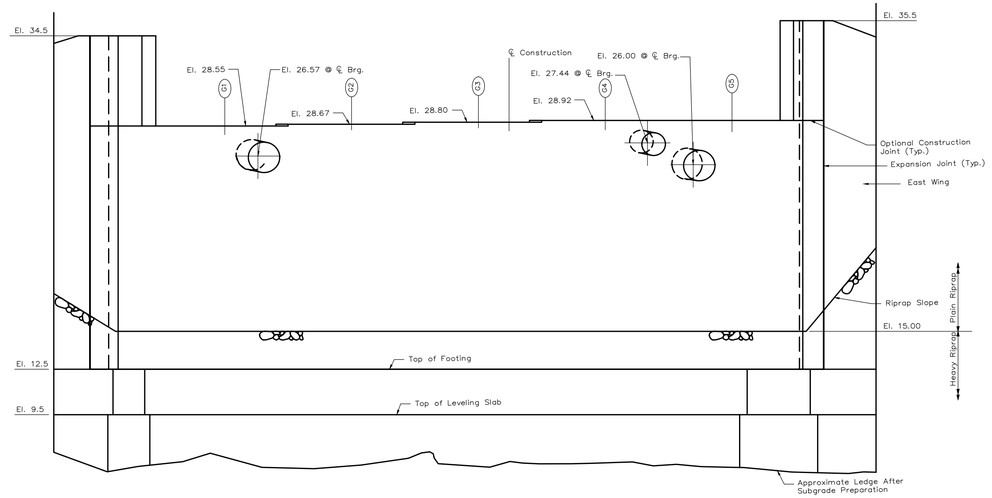
NOTES:

1. SEE SHEET S-101 FOR PIPE SUPPORT DETAILS.
2. WATER MAIN BRIDGE CROSSING PIPE IS NOT INCLUDED IN THE WORK OF THIS PROJECT AND IS SHOWN FOR REFERENCE PURPOSES ONLY.



ABUTMENT NO. 1 ELEVATION

ELEVATION 1 C-106
SCALE: 1"=5'



ABUTMENT NO. 2 ELEVATION

ELEVATION 2 C-106
SCALE: 1"=5'

GENERAL NOTES

1. UTILITY ELEVATIONS ARE PROVIDED AT FACE OF BACKWALL UNLESS NOTED OTHERWISE.
2. BRIDGE AND ABUTMENT BY OTHERS. ABUTMENT PENETRATIONS ARE BY OTHERS AND ELEVATIONS ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH BRIDGE STRUCTURAL DESIGNER FOR FINAL INSTALLED LOCATIONS.

SOURCE:

PROPOSED BRIDGE PLAN, SECTION AND ELEVATIONS FROM DIGITAL PLANS BY T.Y.LIN INTERNATIONAL DATED JANUARY 2019

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JAMES D. WILSON
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BRIDGE FRAMING PLAN AND SECTION

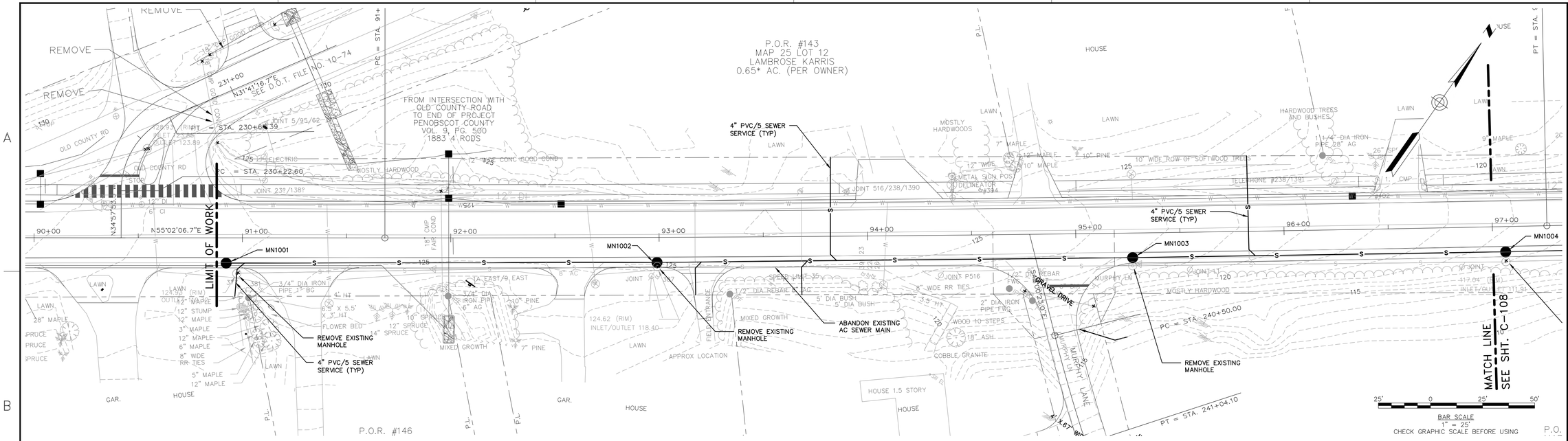
TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE
UTILITY CROSSING AND SEWER REPLACEMENT

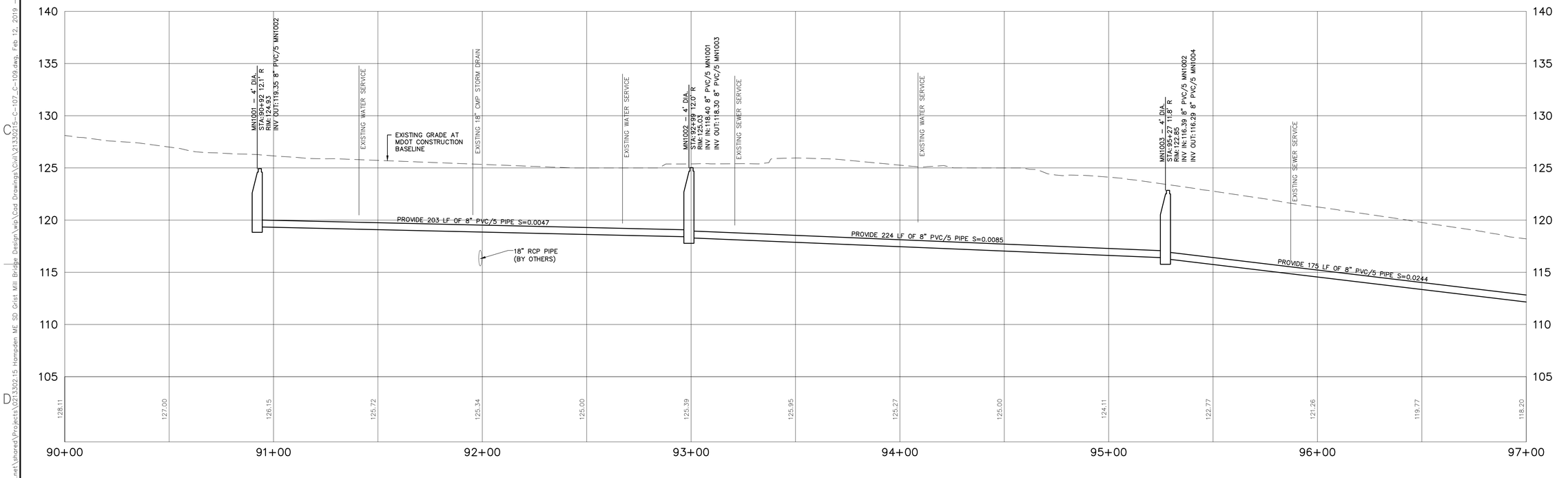
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C-106

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U.S. ROUTE 1A PLAN
SCALE: 1"=25'



U.S. ROUTE 1A PROFILE
SCALE: 1"=25' HORIZONTAL
1"=5' VERTICAL

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STATE OF MAINE
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2019.02.13

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-	ISSUE FOR BID	02/13/19

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U.S. ROUTE 1A PLAN & PROFILE
STA. 91+00 TO STA. 97+00

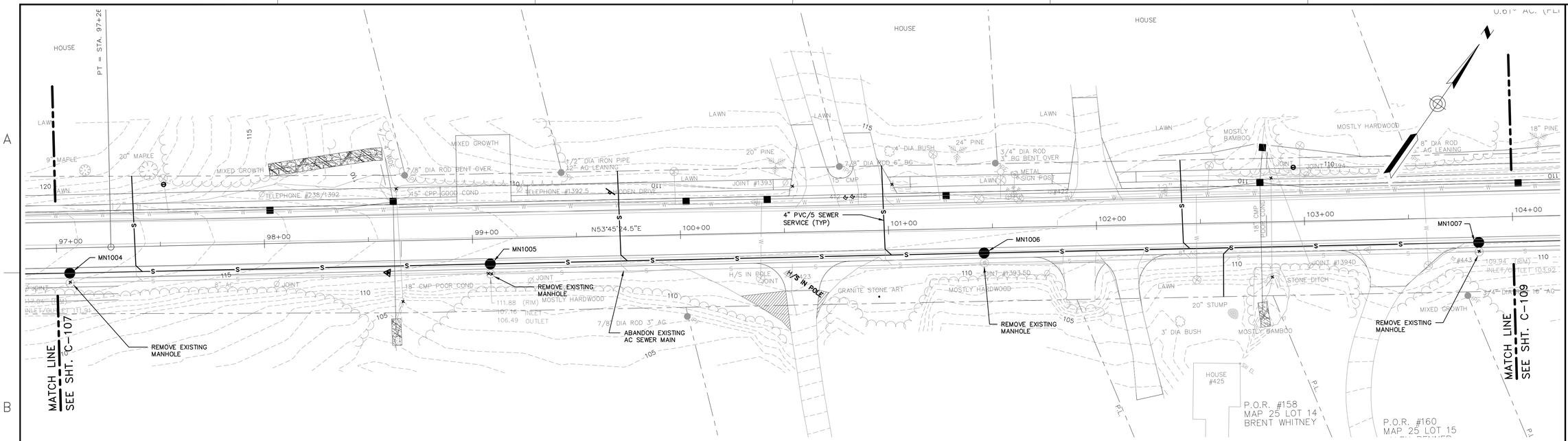
TOWN OF HAMPDEN AND
HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE
UTILITY CROSSING AND
SEWER REPLACEMENT

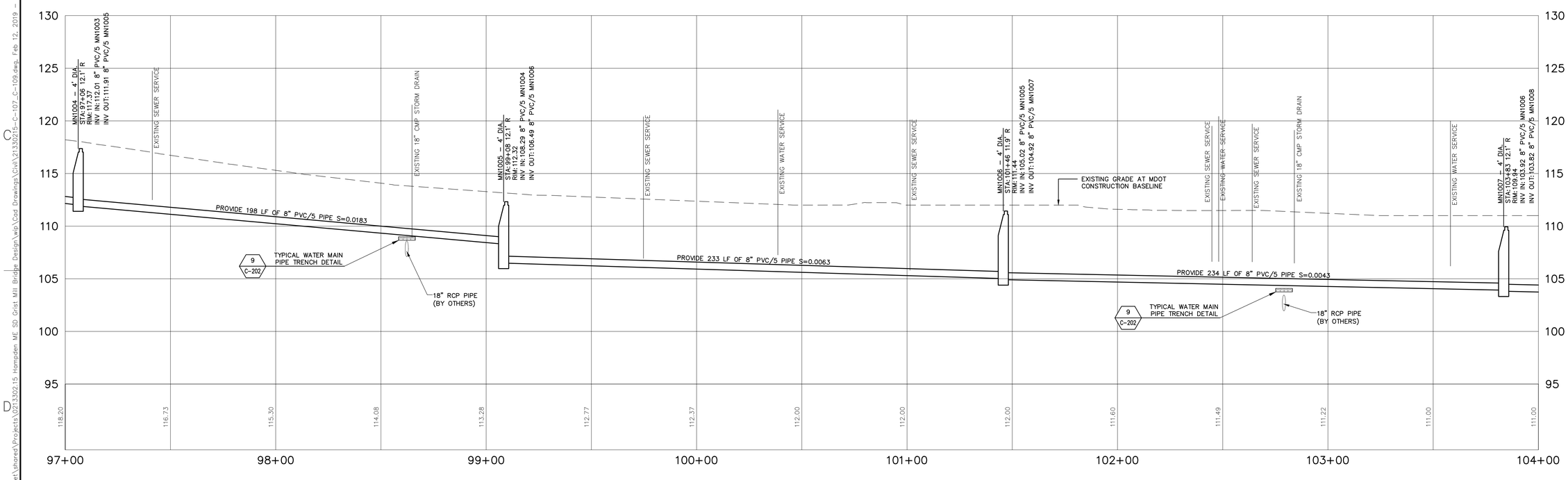
JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
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SHEET: 8 OF 19

C-107

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U.S. ROUTE 1A PLAN
SCALE: 1"=25'



U.S. ROUTE 1A PROFILE
SCALE: 1"=25' HORIZONTAL
1"=5' VERTICAL

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TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

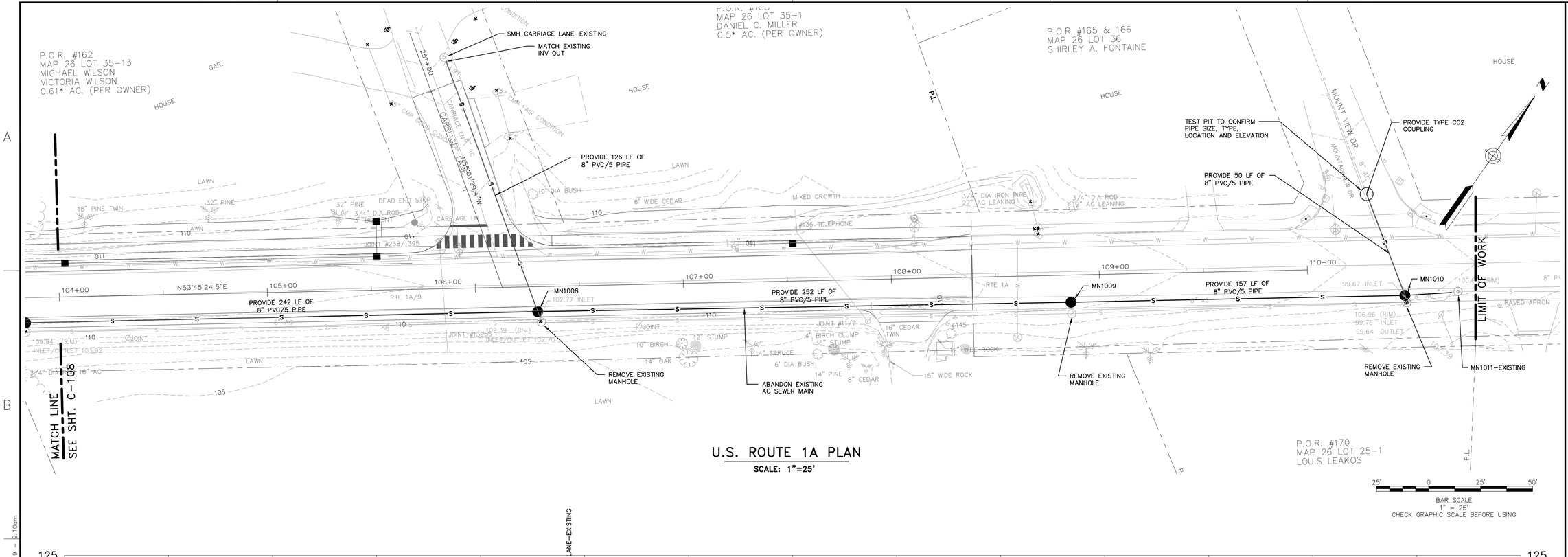
GRIST MILL BRIDGE
UTILITY CROSSING AND SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 9 OF 19

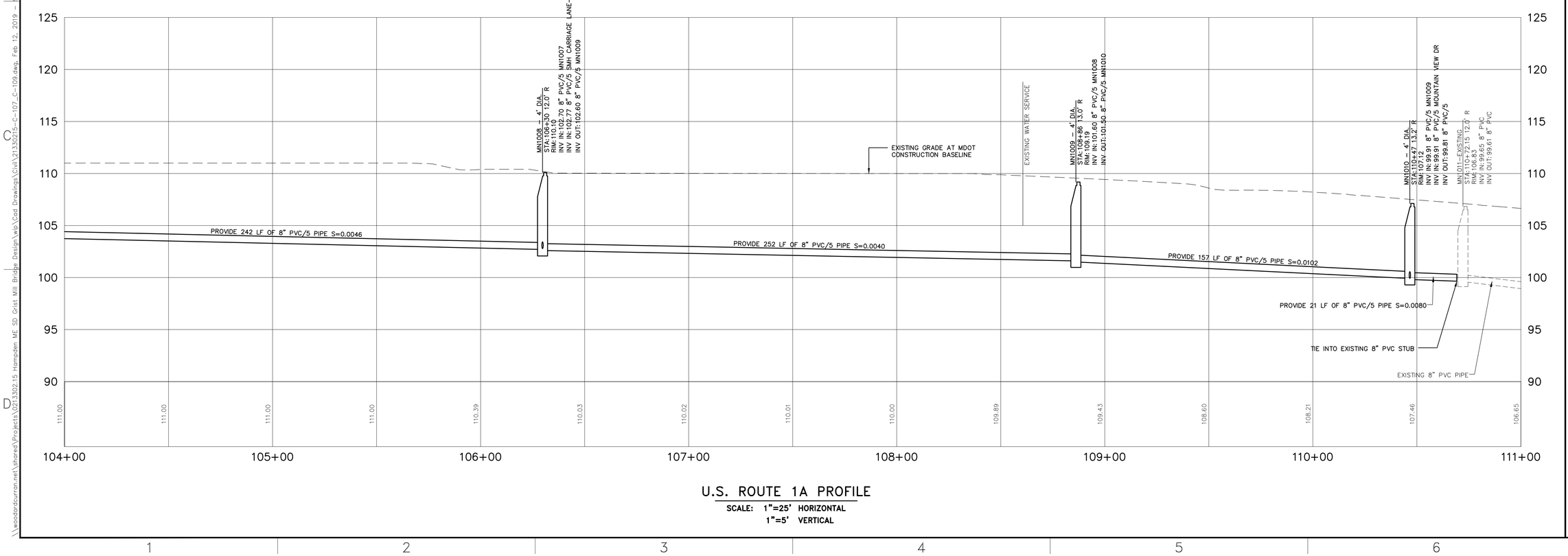
C-108

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22x34 SHEET
1:1



U.S. ROUTE 1A PLAN
SCALE: 1"=25'



U.S. ROUTE 1A PROFILE
SCALE: 1"=25' HORIZONTAL
1"=5' VERTICAL

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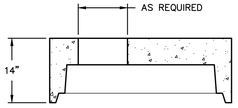
TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE UTILITY CROSSING AND SEWER REPLACEMENT

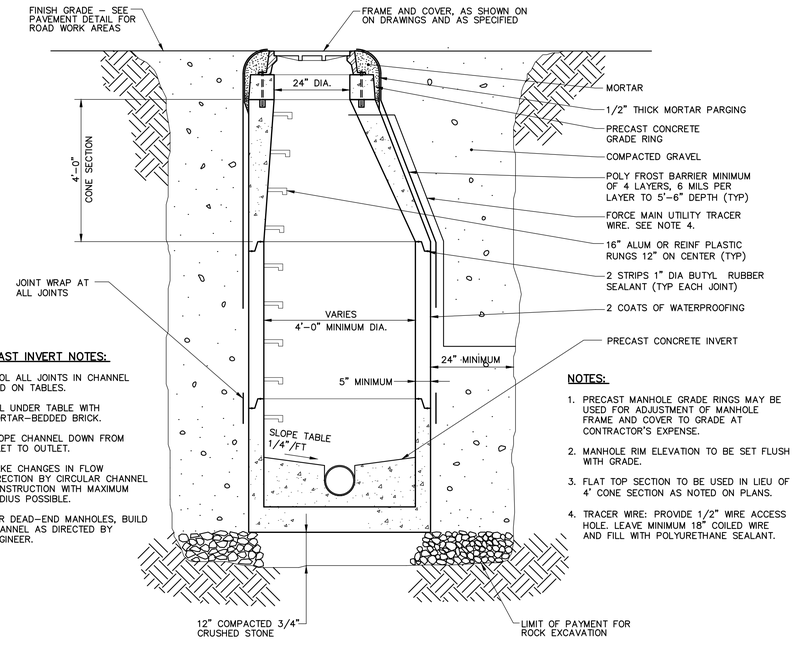
JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 10 OF 19

C-109

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PRECAST CONCRETE FLAT TOP SECTION



PRECAST INVERT NOTES:

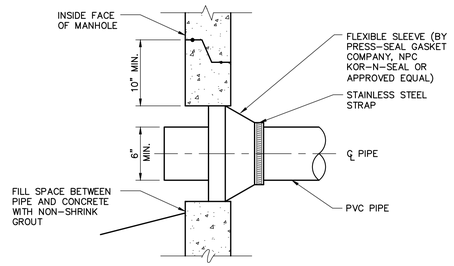
1. TOOL ALL JOINTS IN CHANNEL AND ON TABLES.
2. FILL UNDER TABLE WITH MORTAR–BEDDED BRICK.
3. SLOPE CHANNEL DOWN FROM INLET TO OUTLET.
4. MAKE CHANGES IN FLOW DIRECTION BY CIRCULAR CHANNEL CONSTRUCTION WITH MAXIMUM RADIUS POSSIBLE.
5. FOR DEAD–END MANHOLES, BUILD CHANNEL AS DIRECTED BY ENGINEER.

NOTES:

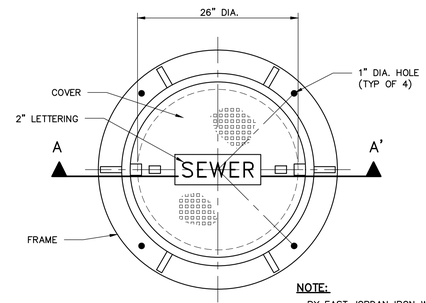
1. PRECAST MANHOLE GRADE RINGS MAY BE USED FOR ADJUSTMENT OF MANHOLE FRAME AND COVER TO GRADE AT CONTRACTOR'S EXPENSE.
2. MANHOLE RIM ELEVATION TO BE SET FLUSH WITH GRADE.
3. FLAT TOP SECTION TO BE USED IN LIEU OF 4' CONE SECTION AS NOTED ON PLANS.
4. TRACER WIRE: PROVIDE 1/2" WIRE ACCESS HOLE. LEAVE MINIMUM 18" COILED WIRE AND FILL WITH POLYURETHANE SEALANT.

SECTION

2 / C–201 PRECAST SEWER MANHOLE
NOT TO SCALE

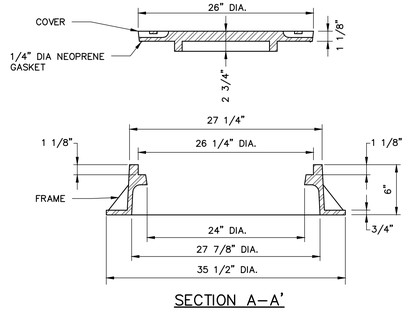


3 / C–201 PIPE TO MANHOLE CONNECTION DETAIL
NOT TO SCALE



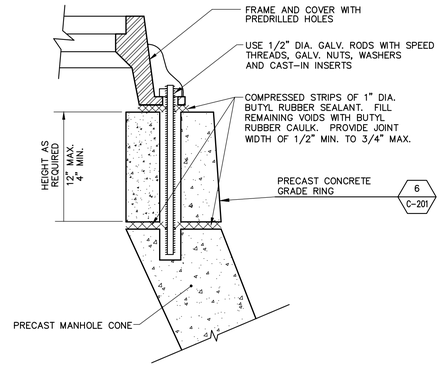
PLAN

NOTE:
BY EAST JORDAN IRON WORKS
FRAME: 2266Z
COVER: 2111A

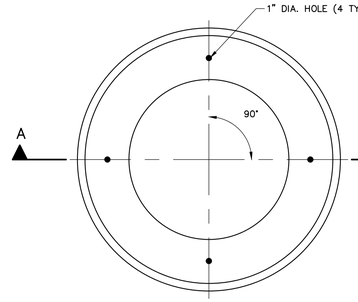


SECTION A–A'

5 / C–201 SEWER MANHOLE FRAME AND COVER
NOT TO SCALE



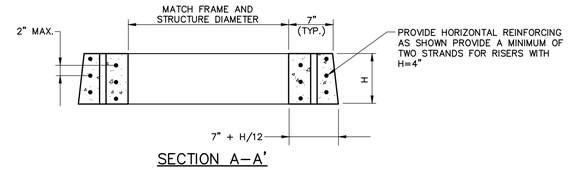
4 / C–201 MANHOLE FRAME FASTENING DETAIL
NOT TO SCALE



PLAN

NOTES:

- PROVIDE CAST–IN INSERTS IN PRECAST MANHOLE CONES & FLAT TOPS. LOCATIONS TO MATCH HOLES IN GRADE RING.
- PROVIDE H OF 4" MIN. TO 12" MAX. AS REQUIRED TO BRING FRAME TO FINAL GRADE.
- FOR FRAME ADJUSTMENTS OF LESS THAN 4" USE APPROVED ALTERNATE MANHOLE FRAME AND/OR ATTACH FRAME DIRECTLY TO PRECAST MANHOLE CONE.



SECTION A–A'

6 / C–201 PRECAST CONCRETE GRADE RING DETAIL
NOT TO SCALE

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STATE OF MAINE
JAMES D. WILSON
No. 8592
REGISTERED PROFESSIONAL ENGINEER
2019.02.13

REV	DESCRIPTION	DATE
–	ISSUE FOR BID	02/13/19

DESIGNED BY: KMC
DRAWN BY: JDE
CHECKED BY: JDW
213025-C-201_C-205.dwg

CIVIL DETAILS 1

TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE UTILITY CROSSING AND SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 11 OF 19

C-201

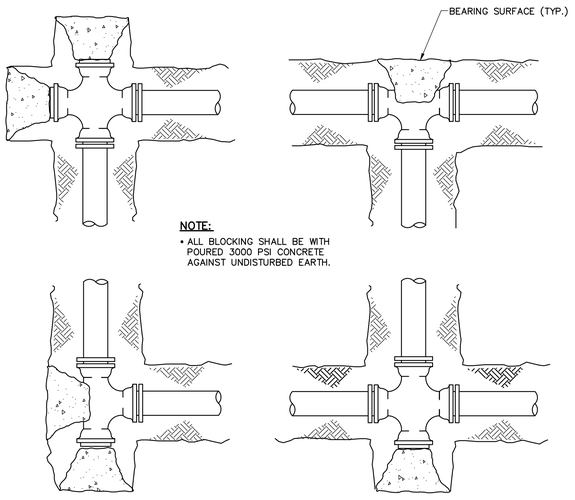
\\woodardcurran.net\shared\Projects\0213302.15 Hampden ME SD Grist Mill Bridge Design\wip\Cad Drawings\Civil\213302l5-C-201_C-205.dwg, Feb 12, 2019 - 9:10am

WATERMAIN THRUST BLOCK BEARING AREAS			
TABLE AND BEARING AREAS IN SQ. FT. AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS *			
SIZE OF MAIN, (IN.)	90° BEND	TEES AND PLUGS THICKNESS	45° BEND
6	4	3	2.5
8	7.5	5.5	4
12	16	12	9
16	27	21	16

* TYPE OF SOIL IS MEDIUM CLAY 6 OR MORE BLOWS/FOOT, OR LOOSE GRANULAR, 9 OR MORE BLOWS/FOOT. SOIL CONDITIONS OTHER THAN THOSE GIVEN WILL REQUIRE LARGER BEARING AREAS, AS DIRECTED IN FIELD BY ENGINEER.

NOTES:

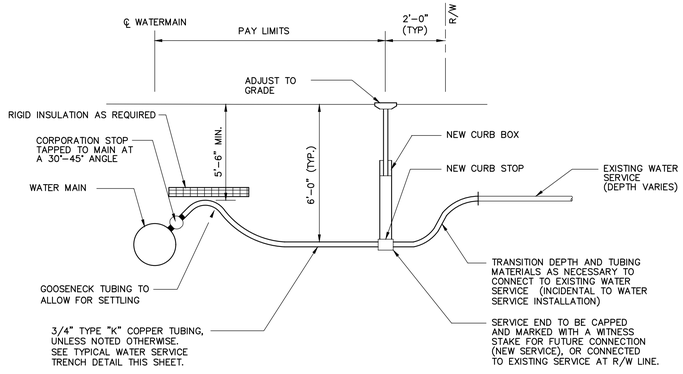
- FOR FITTINGS WITH LESS THAN 45° DEFLECTION USE BEARING AREAS FOR 45° BEND.
- BEARING AREAS BASED ON HORIZONTAL PASSIVE SOIL PRESSURE OF 2000 P.S.F. AND INTERNAL WATER PRESSURE OF 200 PSIG JOINTS SHALL NOT BE ENCASED IN CONCRETE. BEARING AREAS MAY BE DISREGARDED FOR TRENCHES IN ROCK WHERE TOP OF THE ROCK FACE IS AT OR ABOVE THE CROWN OF THE PIPE. HOWEVER, CONCRETE BACKING SHALL BE PLACED BETWEEN PIPE AND THE ROCK FACE.
- THE CONTRACTOR SHALL SUBMIT 2 WEEKS IN ADVANCE OF PLACEMENT, WORKING DRAWINGS FOR EACH THRUST BLOCK TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- AS AN ALTERNATIVE METHOD OF PROVIDING THRUST RESTRAINT, THE CONTRACTOR MAY SUBMIT A RESTRAINED JOINT THRUST RESTRAINT SYSTEM PROPOSAL FOR APPROVAL BY THE ENGINEER. CONTRACTOR SHALL FOLLOW THE DUCTILE IRON PIPE RESEARCH ASSOCIATION THRUST RESTRAINT DESIGN PROCEDURE.



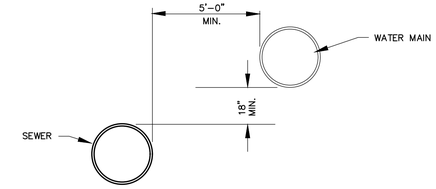
NOTE:

- ALL BLOCKING SHALL BE WITH POURED 3000 PSI CONCRETE AGAINST UNDISTURBED EARTH.

7 C-101 TYPICAL WATER MAIN THRUST BLOCK INSTALLATIONS
NOT TO SCALE



11 C-202 TYPICAL WATER SERVICE DETAIL
NOT TO SCALE



UNUSUAL CONDITION PARALLEL INSTALLATION

NOTES:

THE SEPARATION OF WATER MAINS AND SEWERS SHALL COMPLY WITH THE MAINE DEPARTMENT OF HUMAN SERVICES DIVISION OF HEALTH ENGINEERING REQUIREMENTS WHICH ARE GENERALLY AS FOLLOWS:

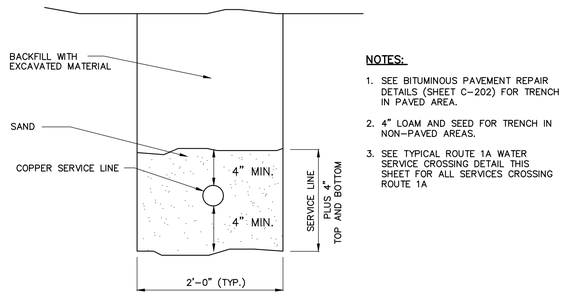
A. PARALLEL INSTALLATION:

1. NORMAL CONDITIONS: THE INSIDE EDGE OF A WATER MAIN SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM THE INSIDE EDGE OF ANY SANITARY SEWER, STORM SEWER OR SEWER MANHOLE.
2. UNUSUAL CONDITIONS: WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10 FEET, THE INSIDE EDGE OF A WATER MAIN MAY BE LAID A MINIMUM OF 5 FEET FROM THE INSIDE EDGE OF A SEWER PROVIDED THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES HIGHER THAN THE TOP OF THE SEWER (SEE DETAIL).

B. CROSSINGS:

1. NORMAL CONDITIONS: WHENEVER POSSIBLE, THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18 INCHES HIGHER THAN THE TOP OF THE SEWER.
2. UNUSUAL CONDITIONS: IF A WATER MAIN MUST CROSS UNDER A SEWER, THE TOP OF THE WATER MAIN SHALL BE AT LEAST 18 INCHES LOWER THAN THE BOTTOM OF THE SEWER, A FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE CROSSING SO THAT THE JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER, AND ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF THE SEWER AT THE CROSSING.
3. SEPARATION BETWEEN THE WATER AND SEWER CAN BE REDUCED TO 12" IF APPROVED BY THE OWNER AND ENGINEER.

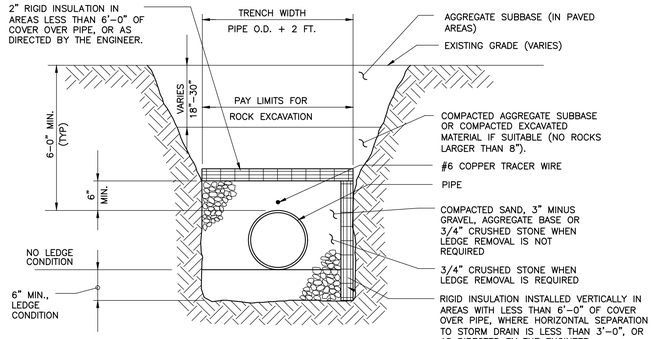
8 C-202 MINIMUM WATER AND SEWER PIPE SEPARATION DETAIL
NOT TO SCALE



NOTES:

1. SEE BITUMINOUS PAVEMENT REPAIR DETAILS (SHEET C-202) FOR TRENCH IN PAVED AREA.
2. 4" LOAM AND SEED FOR TRENCH IN NON-PAVED AREAS.
3. SEE TYPICAL ROUTE 1A WATER SERVICE CROSSING DETAIL THIS SHEET FOR ALL SERVICES CROSSING ROUTE 1A

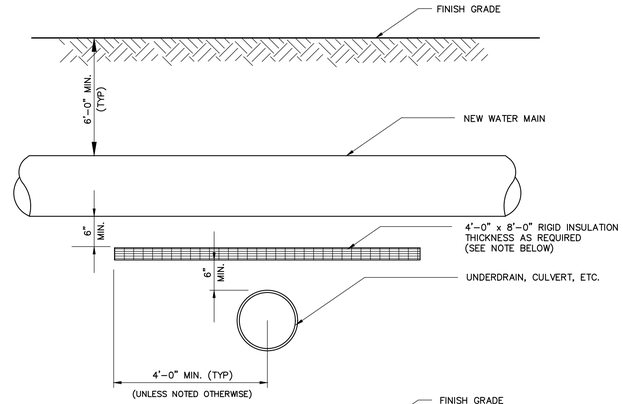
10 C-202 TYPICAL WATER SERVICE TRENCH DETAIL
NOT TO SCALE

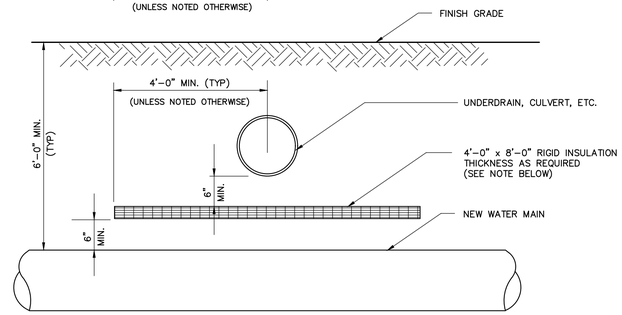


NOTES:

1. SEE BITUMINOUS PAVEMENT REPAIR DETAILS FOR TRENCH IN PAVED AREA.
2. 4" LOAM AND SEED FOR TRENCH IN NON-PAVED AREAS.
3. IF SUITABLE, EXCAVATED MATERIAL MAY BE USED AS PIPE BEDDING. NO ROCKS LARGER THAN 3" SHALL BE PLACED AROUND PIPE.

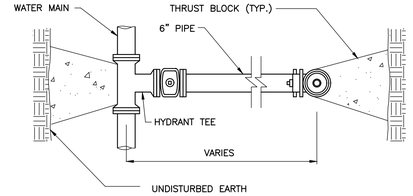
12 C-202 TYPICAL WATER MAIN PIPE TRENCH DETAIL
NOT TO SCALE



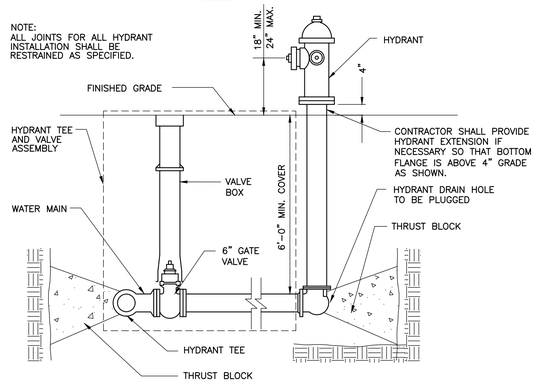


NOTE:
THE THICKNESS OF THE RIGID INSULATION SHALL BE SUFFICIENT TO PROVIDE AN EQUIVALENT OF SIX FEET OF SOIL BETWEEN THE WATER MAIN AND THE UNDERDRAIN, CULVERT, ETC. ONE INCH OF RIGID INSULATION SHALL BE EQUIVALENT TO ONE FOOT OF SOIL.

9 C-108 TYPICAL PIPE CROSSING INSULATION DETAILS
NOT TO SCALE



PLAN



ELEVATION

13 C-202 TYPICAL HYDRANT ASSEMBLY DETAIL
NOT TO SCALE

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STATE OF MAINE
JAMES D WILSON
No. 8592
REGISTERED PROFESSIONAL ENGINEER
2019.02.13

REV	DESCRIPTION	DATE
-	ISSUE FOR BID	02/13/19

DESIGNED BY: KMC
DRAWN BY: JDE
CHECKED BY: JDW
2133025-C-201 C-205.dwg

CIVIL DETAILS 2

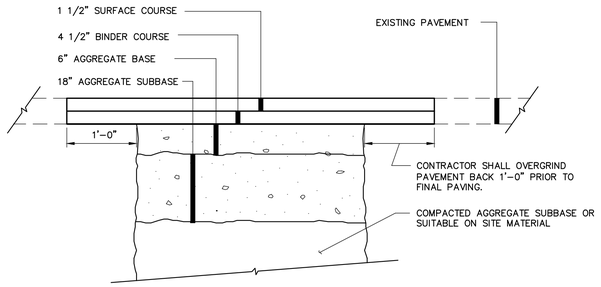
TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE
UTILITY CROSSING AND SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 12 OF 19

C-202

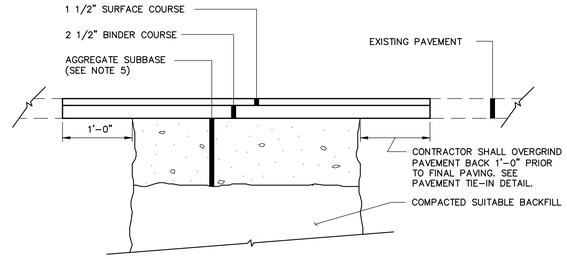
\\woodardcurran.net\shared\Projects\0213302.15 Hampden ME SD Grist Mill Bridge Design\wip\Cad Drawings\Civil\2133025-C-201_C-205.dwg, Feb 12, 2019 - 9:10am



NOTES:

1. TEMPORARY PAVEMENT IS 2" BINDER COURSE, AND MAY BE REQUIRED AT THE OWNER'S DISCRETION.
2. CUT EXISTING PAVEMENT TO STRAIGHT EVEN EDGE, AND APPLY TACK COAT BY SPRAY APPLICATION BEFORE PAVING.
3. RESTORE EXISTING PAVEMENT MARKINGS.
4. PAY LIMITS FOR PAVING SHALL BE A WIDTH OF 8'-0" MEASURED 4'-0" FROM THE CENTERLINE OF THE PIPE ON EACH SIDE. THIS INCLUDES THE 1'-0" OVERGRIND REQUIRED PER THE PAVEMENT TIE-IN DETAIL.
5. MATCH EXISTING THICKNESS OF AGGREGATE BASE AND SUBBASE. USE NATIVE MATERIAL WHERE POSSIBLE. APPROXIMATE THICKNESS IS ASSUMED TO BE 24".
6. PAVEMENT SHALL BE REPLACED TO EXISTING THICKNESS, OR A MAXIMUM OF 6" AS SHOWN.
7. THE FINAL SAW CUTTING OF PAVEMENT SHALL BE PERFORMED AFTER BACKFILLING AND COMPACTION TO THE TOP OF THE EXISTING GRAVEL BASE IS COMPLETED. AFTER SAW CUTTING AND REMOVING THIS ADDITIONAL ONE FOOT (1') OF PAVEMENT, THE ENTIRE EXPOSED GRAVEL LAYER SHALL BE ONCE AGAIN COMPACTED, INCLUDING THE UNDISTURBED GRAVEL PORTION, PRIOR TO PAVING.
8. DURING EXCAVATION, SEPARATE THE EXISTING GRAVEL LAYER FROM THE COMMON EXCAVATION BELOW. REUSE ORIGINAL EXCAVATED MATERIALS DURING BACKFILLING IF COMPATIBLE, IN ORDER THAT THEY WERE REMOVED.

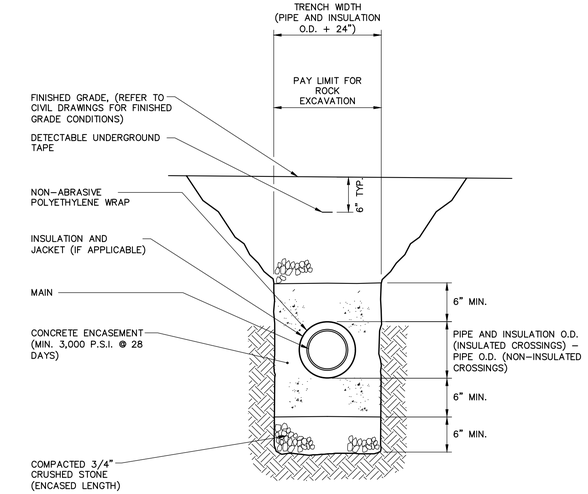
14 / C-203 — TYPICAL BITUMINOUS PAVEMENT REPAIR STATE ROADS
NOT TO SCALE



NOTES:

1. TEMPORARY PAVEMENT IS 2" BINDER COURSE, AND MAY BE REQUIRED AT THE OWNER'S DISCRETION.
2. CUT EXISTING PAVEMENT TO STRAIGHT EVEN EDGE, AND APPLY TACK COAT ON ALL EDGES BY SPRAY APPLICATION BEFORE PAVING.
3. RESTORE ALL PAVEMENT MARKINGS.
4. GRAVEL ROADS OR SHOULDERS: PROVIDE 4" AGGREGATE BASE IN LIEU OF BITUMINOUS ASPHALT.
5. PAY LIMITS FOR PAVING SHALL BE A WIDTH OF 8'-0" MEASURED 4'-0" FROM THE CENTERLINE OF THE PIPE ON EACH SIDE. THIS INCLUDES THE 1'-0" OVERGRIND REQUIRED PER THE PAVEMENT TIE-IN DETAIL.
6. MATCH EXISTING THICKNESS OF AGGREGATE SUBBASE. USE NATIVE MATERIAL WHERE POSSIBLE. APPROXIMATE THICKNESS IS ASSUMED TO BE 18".
7. FOR TOWN ROADS, PAVEMENT SHALL BE REPLACED IN THICKNESS SHOWN ABOVE.

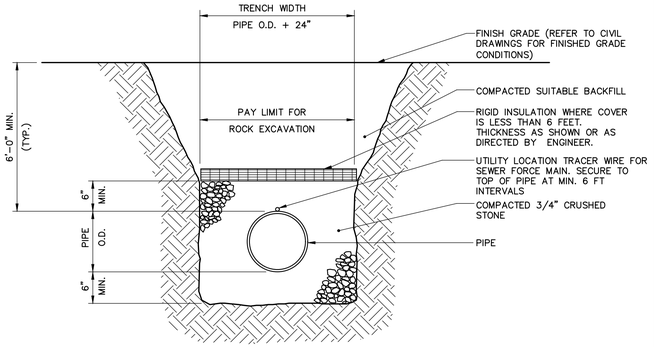
15 / C-203 — TYPICAL BITUMINOUS PAVEMENT REPAIR TOWN ROADS AND DRIVEWAYS
NOT TO SCALE



SECTION A-A'

NOTES:

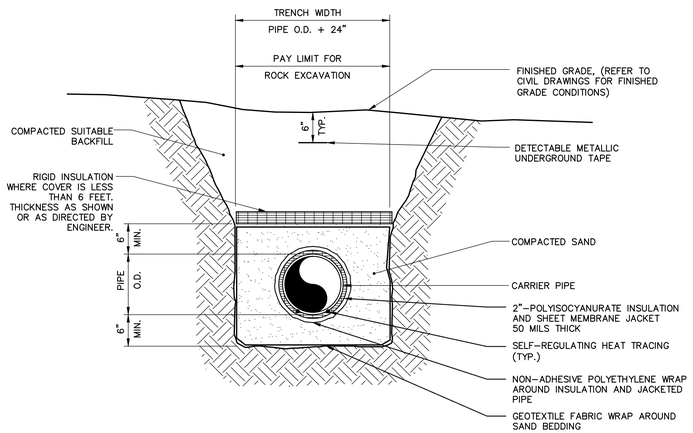
1. MAINTAIN UNIFORM TRENCH WIDTH TO 6" OVER PIPE.
2. PROVIDE 4" LOAM AND SEED FOR TRENCH IN NON-PAVED AREAS.
3. 1" OF INSULATION IS EQUAL TO ONE FOOT OF COVER. 2" WRAPPED PIPE INSULATION SHALL BE CONSIDERED EQUAL TO 2 FEET OF COVER.
4. PROVIDE SEPARATION GEOTEXTILE FABRIC AROUND THE EXTERIOR OF ALL SAND BEDDING PRIOR TO BACK FILLING.
5. INSULATION JACKET SEGMENT OVERLAPS SHALL BE 4" MINIMUM.
6. BACKFILL SAND SHALL BE FREE OF ROCKS OR MATERIALS WHICH MAY PUNCTURE INSULATION JACKET. FILL MATERIAL CONTAINING CLAY OR OTHER MATERIALS THAT MAY STICK TO THE MEMBRANE OR SHRINK/PULL SEAMS SHALL NOT BE USED.



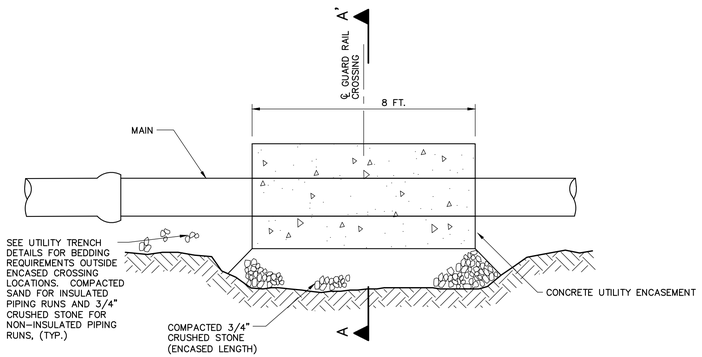
NOTES:

1. MAINTAIN UNIFORM TRENCH WIDTH TO 6" OVER PIPE.
2. 1" OF INSULATION IS EQUAL TO ONE FOOT OF COVER.
3. PER MDOT REGULATIONS FOR PIPES INSTALLED BENEATH STATE ROADS, SEPARATION GEOTEXTILE FABRIC MUST BE INSTALLED ABOVE ALL CRUSHED STONE BEDDING AROUND PIPES, PRIOR TO BACK FILLING.
4. PROVIDE FINISHED GRADE CONDITIONS AS SHOWN ON THE CIVIL DRAWINGS.
5. PROVIDE 4" LOAM AND SEED FOR TRENCH IN NON-PAVED AREAS.

16 / C-203 — TYPICAL SEWER PIPE TRENCH DETAIL
NOT TO SCALE



17 / C-203 — TYPICAL INSULATED PIPE TRENCH DETAIL
NOT TO SCALE



NOTES:

1. CONCRETE ENCASEMENT SHALL BE CENTERED AT GUARD RAIL CROSSINGS.
2. FORCE MAIN PIPE, INSULATION AND JACKET SHALL BE WRAPPED WITH POLYETHYLENE PRIOR TO PLACEMENT OF CONCRETE.
3. PROVIDE COMPACTED 3/4" CRUSHED STONE BEDDING FOR ENCASED CONCRETE SEGMENTS. REFER TO PIPE TRENCH DETAILS FOR BEDDING REQUIREMENTS OUTSIDE ENCASED CROSSING LOCATIONS.
4. PROVIDE UTILITY ENCASEMENT WHERE COVER IS LESS THAN 4'-6" AT ALL GUARD RAIL CROSSING LOCATIONS.
5. REFER TO UNDERGROUND DUCT BANK DETAIL FOR ADDITIONAL REQUIREMENTS AT ELECTRICAL UTILITY CROSSING LOCATIONS.

18 / C-101 — WATER MAIN CONCRETE ENCASEMENT AT GUARD RAIL CROSSINGS
NOT TO SCALE

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STATE OF MAINE — JAMES D. WILSON — No. 8592 — REGISTERED PROFESSIONAL ENGINEER
2019.02.13

REV'D	DESCRIPTION	DATE
-	ISSUE FOR BID	02/13/19

DESIGNED BY: KMC
DRAWN BY: JDE
CHECKED BY: JDW
21302215-C-201_C-205.dwg

CIVIL DETAILS 3

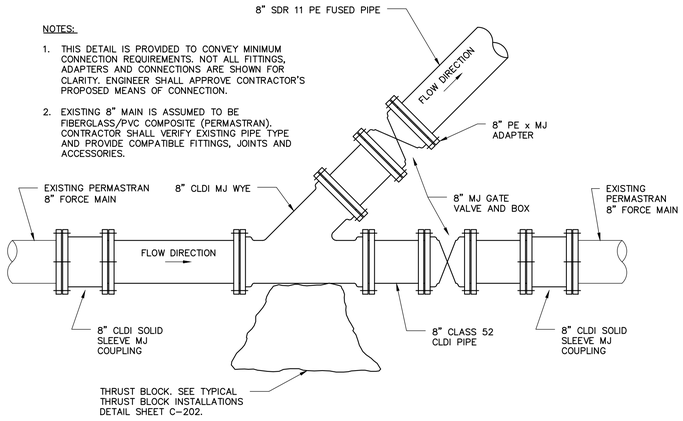
TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE
UTILITY CROSSING AND SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 13 OF 19

C-203

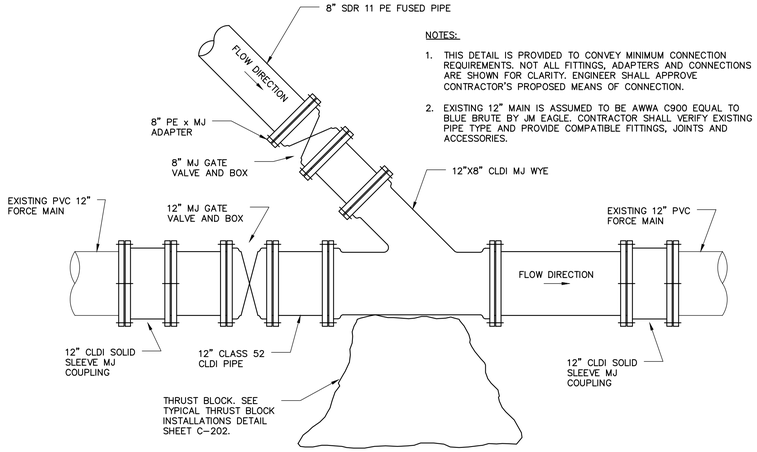
\\woodardcurran.net\shared\Projects\0213302.15 Hampden ME SD Grist Mill Bridge Design\wip\Cad Drawings\Civil\21330215-C-201_C-205.dwg, Feb 12, 2019 - 9:11am



TEMPORARY SEWER FORCE MAIN TIE-IN DETAIL (WEST)

19 / C-102

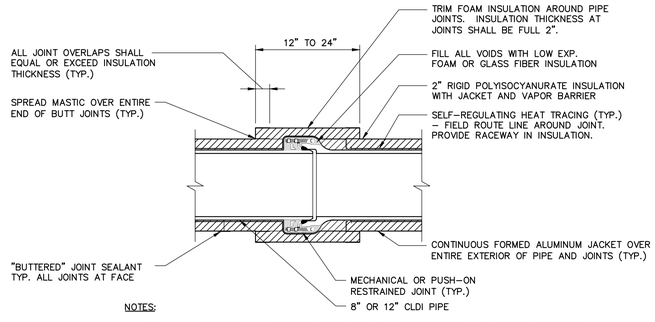
NOT TO SCALE



TEMPORARY SEWER FORCE MAIN TIE-IN DETAIL (EAST)

20 / C-102

NOT TO SCALE



NOTES:

1. SEAL ALL LONGITUDINAL AND BUTT JOINTS WITH THIN COAT OF SEALANT OVER ENTIRE DEPTH.
2. PROVIDE STAINLESS STEEL BANDS AND GEAR CLAMPS AT ENDS OF FORMED INSULATION SEGMENTS.
3. PROVIDE SIMILAR TECHNIQUE AT PIPE COUPLINGS, EXPANSION JOINTS AND FLANGES. FIELD CUT AND SEAL ALL ADDITIONAL PENETRATIONS.
4. PROVIDE 0.032" THICK ALUMINUM JACKET IN EXPOSED ABOVE GRADE AREAS. PROVIDE HEAVY DUTY 50 MIL VAPOR BARRIER SHEET MEMBRANE JACKET SUITABLE FOR DIRECT BURY IN BELOW GRADE AREAS.

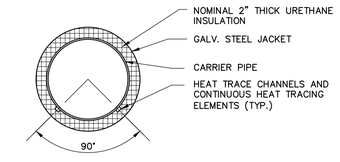
INSULATED ABOVE GRADE PIPE JOINT DETAIL

21 / C-205

NOT TO SCALE

NOTE:

1. GALV. STEEL JACKET, THICKNESS VARIES.
   22 GA FOR JACKET O.D. <18"
   18 GA FOR JACKET O.D. >18"



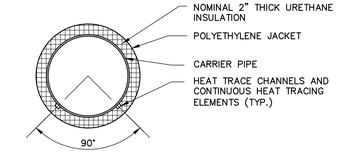
ABOVE GRADE PIPE INSULATION DETAIL

22 / C-205

NOT TO SCALE

NOTE:

1. POLYETHYLENE JACKET MINIMUM THICKNESS IS 50 MILS FOR JACKET O.D. ≤16", 75 MILS FOR JACKET O.D. >16" AND ≤24", AND 100 MILS FOR JACKET O.D. >24"



BELOW GRADE PIPE INSULATION DETAIL

23 / C-205

NOT TO SCALE

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STATE OF MAINE · JAMES D WILSON · No. 8592 · REGISTERED PROFESSIONAL ENGINEER
2019.02.13

REV	DESCRIPTION	DATE
-	ISSUE FOR BID	02/13/19

DESIGNED BY: KMC
DRAWN BY: JDE
CHECKED BY: JDW
213025-C-201_C-205.dwg

CIVIL DETAILS 4

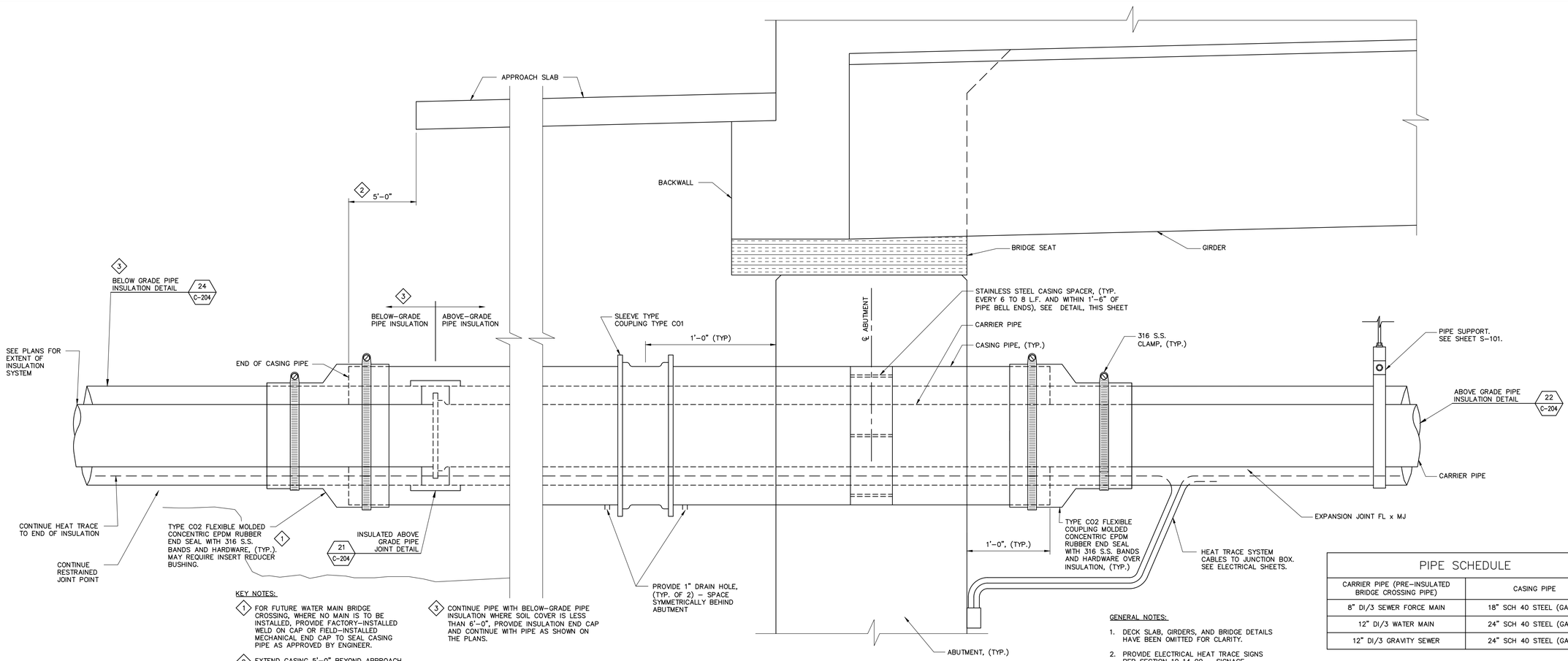
TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE UTILITY CROSSING AND SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 14 OF 19

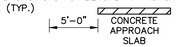
C-204

\\woodardcurran.net\shared\Projects\0213302.15 Hampden ME SD Grist Mill Bridge Design\wip\Cad Drawings\Civil\213025-C-201_C-205.dwg, Feb 12, 2019 - 9:11am



KEY NOTES:

1. FOR FUTURE WATER MAIN BRIDGE CROSSING, WHERE NO MAIN IS TO BE INSTALLED, PROVIDE FACTORY-INSTALLED WELD ON CAP OR FIELD-INSTALLED MECHANICAL END CAP TO SEAL CASING PIPE AS APPROVED BY ENGINEER.
2. EXTEND CASING 5'-0" BEYOND APPROACH SLAB, (TYP.)



3. CONTINUE PIPE WITH BELOW-GRADE PIPE INSULATION WHERE SOIL COVER IS LESS THAN 6'-0", PROVIDE INSULATION END CAP AND CONTINUE WITH PIPE AS SHOWN ON THE PLANS.

24 C-205 PIPE CASING DETAIL

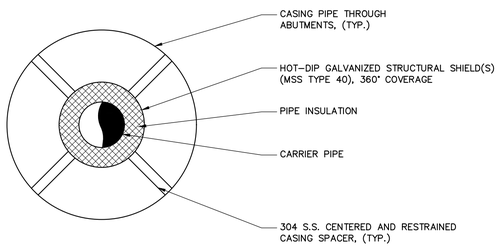
NOT TO SCALE

GENERAL NOTES:

1. DECK SLAB, GIRDERS, AND BRIDGE DETAILS HAVE BEEN OMITTED FOR CLARITY.
2. PROVIDE ELECTRICAL HEAT TRACE SIGNS PER SECTION 10 14 00 – SIGNAGE.

PIPE SCHEDULE

CARRIER PIPE (PRE-INSULATED BRIDGE CROSSING PIPE)	CASING PIPE
8" DI/3 SEWER FORCE MAIN	18" SCH 40 STEEL (GALV.)
12" DI/3 WATER MAIN	24" SCH 40 STEEL (GALV.)
12" DI/3 GRAVITY SEWER	24" SCH 40 STEEL (GALV.)



NOTES:

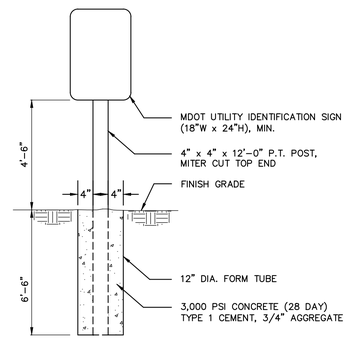
1. SEE PIPE CASING DETAIL FOR PIPE SIZE AND MATERIAL.
2. PROVIDE CASING SPACERS WITHIN 1'-6" OF PIPE BELL END. PROVIDE SPACERS EVERY 6 TO 8 L.F. THEREAFTER.
3. CASING SPACERS SHALL HAVE 304 S.S. BANDS AND RISERS, PVC LINER, 304 S.S. HARDWARE AND GLASS FILLED POLYMER PLASTIC RUNNERS/RISERS.

25 C-205 ABUTMENT CASING CROSS SECTION

NOT TO SCALE

NOTES:

1. REFER TO SPECIFICATION 10 14 00, SIGNAGE FOR ADDITIONAL DETAILS AND REQUIREMENTS.
2. FIELD VERIFY SIGN LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
3. PROVIDE TWO SIGNS, ONE ON EACH SIDE OF CROSSING.



26 C-101 MDOT UTILITY SIGNAGE DETAIL

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STATE OF MAINE JAMES D. WILSON No. 8592 REGISTERED PROFESSIONAL ENGINEER
2019.02.12

REV	DESCRIPTION	DATE
-	ISSUE FOR BID	02/13/19

DESIGNED BY: KMC
DRAWN BY: JDE
CHECKED BY: JDW
2133025-C-201 C-205.dwg

CIVIL DETAILS 5

TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE UTILITY CROSSING AND SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 15 OF 19

C-205

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GENERAL NOTES

1. GOVERNING CODES

   1.1. INTERNATIONAL BUILDING CODE (IBC) 2015
   1.2. ASCE 7-10
   1.3. AWS D1.1 STRUCTURAL WELDING CODE – STEEL (2010)
   1.4. AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 7th EDITION (2014)

2. DESIGN LOADS AND CRITERIA

PIPE	92 LBS/FT (12"ø DUCTILE IRON + WATER)
INSULATION	8 LBS/FT
WIND LOAD	50 PSF

MATERIAL NOTES SPECIFICATIONS

1. STRUCTURAL STEEL

   STRUCTURAL STEEL AND WELDING TO MATCH BRIDGE DRAWINGS EXCEPT WHERE NOTED.

CHANNEL	ASTM A36, HOT DIPPED GALVANIZED PER MAINEDOT STANDARD SPECIFICATION 506
BOLTS	ASTM A325 GALVANIZED WITH GALVANIZED HEAVY HEX NUTS AND WASHERS PER MAINEDOT STANDARD SPECIFICATION SECTION 713.02
PIPE SUPPORTS	SPECIFIED IN DRAWINGS OR ENGINEERED APPROVED EQUAL

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL GENERAL NOTES

   1.1. WORK SHOWN ON THIS DRAWING IS BASED ON THE DESIGN PLANS TITLED "GRIST MILL BRIDGE OVER SOUADABSCOOK STREAM. HAMPDEN, PENOBSCOT COUNTY" PREPARED BY T-Y-LIN INTERNATIONAL FOR FOR THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION; PROJECT#: STP-2169(200).
   1.2. TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR.
   1.3. FIELD CUTTING OR DRILLING OF STRUCTURAL MEMBERS IS PROHIBITED UNLESS INDICATED ON THE DRAWINGS OR WITH PRIOR APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
   1.4. ALL STRUCTURAL STEEL MEMBERS (INCLUDING PIPE BRACES), AND BOLTING SHALL BE HOT DIPPED GALVANIZED.

2. BOLTED CONNECTIONS

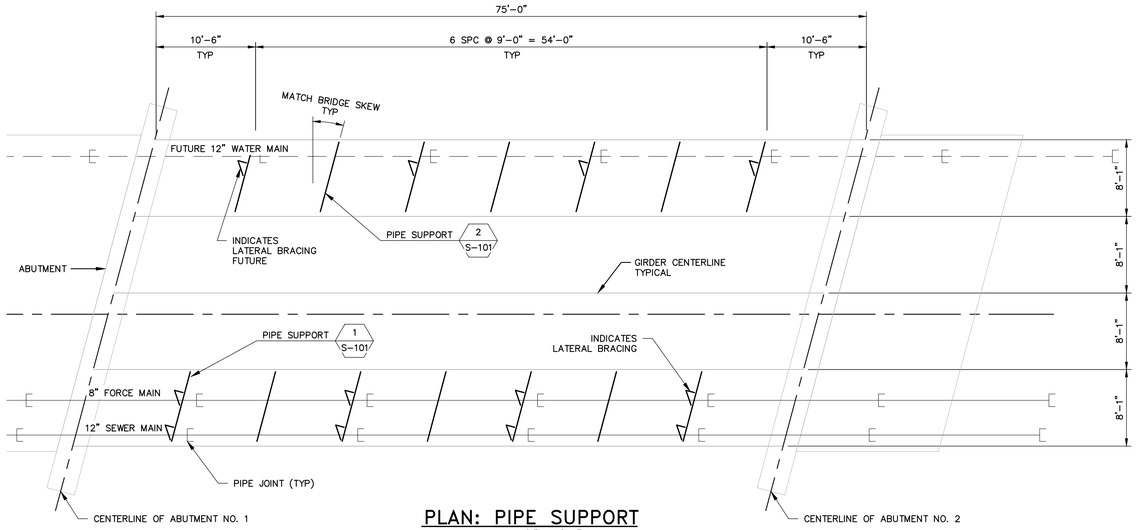
   2.1. UNLESS NOTED OTHERWISE IN THESE STRUCTURAL DRAWINGS, ALL BOLTED CONNECTIONS SHALL BE 3/4"ø ASTM F3125 GRADE A325 HOT DIP GALVANIZED WITH HEAVY HEX NUTS AND JOINT TYPE SHALL BE "SNUG TIGHT".
   2.2. HIGH-STRENGTH BOLTS SHALL NOT BE REUSED WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD.
   2.3. COMPRESSIBLE MATERIAL SHALL NOT BE PERMITTED BETWEEN BOLTED ASSEMBLIES.
   2.4. UNLESS OTHERWISE NOTED STANDARD HOLE SIZES SHALL BE USED IN ALL PLIES OF BOLTED JOINTS.

3. WELDED CONNECTIONS

   3.1. ALL CARBON STEEL WELDING SHALL BE PERFORMED PER AWS D1.1 – LATEST EDITION.
   3.2. ALL STAINLESS STEEL WELDING STAINLESS STEEL WELDING SHALL BE PERFORMED PER AWS D1.6 – LATEST EDITION.
   3.3. ALL WELDERS SHALL BE AWS CERTIFIED, AND WELDING SHALL COMPLY WITH LOCAL LAWS AND ORDINANCES.
   3.4. SMOOTH ALL SHARP EDGES.
   3.5. STRUCTURE OWNER RESERVES THE RIGHT TO REVIEW WELDING CERTIFICATIONS AND DESTRUCTIVE OR NON-DESTRUCTIVE TESTING.

4. STRUCTURAL STEEL GALVANIZING

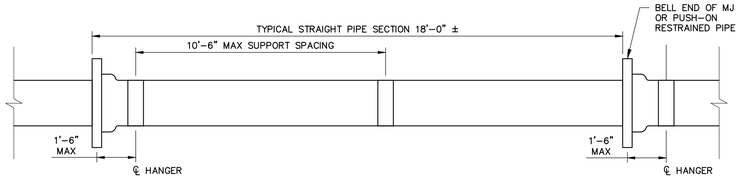
   4.1. ALL STRUCTURAL STEEL, INCLUDING BOLTS AND CONNECTION ITEMS, SHALL BE GALVANIZED.
   4.2. ALL ITEMS SPECIFIED AS GALVANIZED SHALL BE COATED BY THE HOT-DIP PROCESS IN ACCORDANCE WITH ASTM A123 OR ASTM A153, IN MOLTEN ZINC, PRODUCING A CONTINUOUS COATING OF UNIFORM THICKNESS OF WEIGHT REQUIRED BY THE REFERENCED SPECIFICATIONS.
   4.3. GALVANIZING PROCESS SHALL INCLUDE NOT LESS THAN FOUR IMMERSIONS IN COPPER SULFATE IN CONFORMANCE WITH ASTM A239. MINIMUM ACCEPTABLE WEIGHT OF COATING SHALL BE 1.25 OUNCES PER SQUARE FOOT OF SURFACE AS PER ASTM A90.
   4.4. GALVANIZED ITEMS SHALL BE TAGGED TO INCLUDE THE NAME OF GALVANIZER, THE WEIGHT OF THE COATING, AND APPLICABLE ASTM COMPLIANCE.
   4.5. AT LOCATIONS WHERE GALVANIZED STEEL IS FIELD CUT AND AT OTHER LOCATIONS WHERE GALVANIZED COATING IS REMOVED, THE STEEL SURFACE SHALL BE TOUCHED UP WITH A ZINC RICH PAINT MEETING ASTM A780 AND CONTAINING A MINIMUM OF 65% ZINC. THE MINIMUM ACCEPTABLE WEIGHT OF COATING SHALL BE 1.25 OUNCES PER SQUARE FOOT OF SURFACE AS PER ASTM A90.
   4.6. IF GALVANIZED STEEL IS TO BE PAINTED, THE GALVANIZED STEEL SHALL NOT BE QUENCHED. IT SHALL BE PHOSPHATIZED, AND PREPARED FOR PAINTING PER ASTM D6386. IT SHALL BE PRIME PAINTED, COMPATIBLE WITH THE FINISH PAINTS SPECIFIED.



PLAN: PIPE SUPPORT

SCALE: 1/8" = 1'-0"

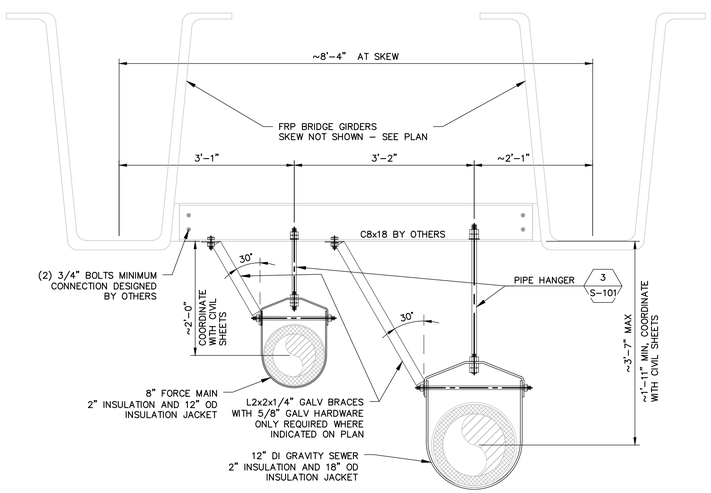
NOTE: SUPPORT SPACING ASSUMES MAXIMUM PIPE LAYING LENGTH OF 18'-0". CONTRACTOR SHALL VARY PIPE LENGTHS AS REQUIRED PER SUPPORT SPACING DETAIL 4, S-101.



PIPE SUPPORT SPACING KEY (STRAIGHT PIPE SEGMENTS)

4 S-101

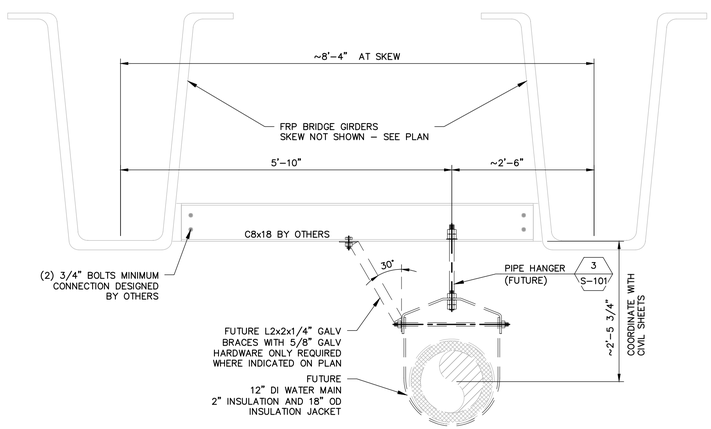
NOT TO SCALE



PIPE SUPPORT 1 – SEWER MAINS

1 S-101

SCALE: 3/4" = 1'-0"



PIPE SUPPORT 2 – CHANNEL

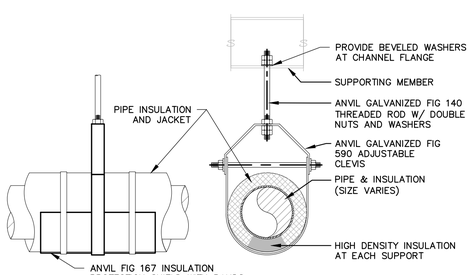
2 S-101

SCALE: 3/4" = 1'-0"

NOTE:
WATER MAIN BRIDGE CROSSING IS NOT INCLUDED IN THE WORK OF THIS PROJECT. DETAIL IS PROVIDED FOR REFERENCE PURPOSES ONLY.

ABBREVIATIONS

&	AND
@	AT
%	PERCENT(AGE)
±	PLUS OR MINUS
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
CL	COLUMN LINE
DIA	DIAMETER
EXG	EXISTING
FT	FOOT / FEET
GALV	GALVANIZED
IN	INCHE(S)
LB	POUND
MAX	MAXIMUM
MIN	MINIMUM
OC	ON CENTER
PLF	POUND(S) PER LINEAR FOOT
PSF	POUND(S) PER SQUARE FOOT
PSI	POUND(S) PER SQUARE INCH
SS	STAINLESS STEEL
TYP	TYPICAL



PIPE HANGER

3 S-101

SCALE: 1" = 1'-0"

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STATE OF MAINE
SEAN J. TARBOX
No. 13900
LICENSED PROFESSIONAL ENGINEER
2019.02.13

REV	DESCRIPTION	DATE
–	ISSUE FOR BID	02/13/19

DESIGNED BY: CSB
DRAWN BY: CSB
CHECKED BY: TJS
213025-S-101.dwg

BRIDGE SUPPORT PLAN & DETAILS

TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE
UTILITY CROSSING AND
SEWER REPLACEMENT

JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: AS NOTED
SHEET: 16 OF 19

S-101

\\woodardcurran.net\shared\Projects\0213302.15 Hampden ME SD Grist Mill Bridge Design\wip\Cad Drawings\Structural\213025-S-101.dwg, Feb 12, 2019 - 9:14am

GENERAL

- HOME RUN. ARROWS INDICATE NUMBER OF CIRCUITS, CROSS LINES INDICATE NUMBER OF WIRES, OTHER THAN TWO (2) PLUS BOND, WIRE SIZE NOT SHOWN INDICATES #12AWG MIN. (P1-##)
- INDICATES CIRCUIT NUMBER
- PANEL DESIGNATION
- WIRING IN RACEWAY
- WIRING IN RACEWAY CONCEALED UNDERGROUND OR UNDERSLAB, MINIMUM 3/4"C
- 3/C #nn W/GND
- EquipNo-P — CONDUIT AND CABLE ID TAG
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB
- EY CONDUIT SEAL
- FLEXIBLE NON-METALLIC CONDUIT
- PANELBOARD
- CP — CONTROL PANEL
- ATC — AUTOMATIC TEMPERATURE CONTROL PANEL
- ISBP — INTRINSIC SAFETY BARRIER PANEL
- POWER COMPANY METER
- HS — LOCAL SELECTOR SWITCH
  H/O/A — HAND/OFF/AUTO
  H/O/R — HAND/OFF/REMOTE
  L/O/R — LOCAL/OFF/REMOTE
- PUSHBUTTON STATION, WITH "EM" EMERGENCY
- J — JUNCTION BOX
- MD — MOTORIZED DAMPER
- T — THERMOSTAT
- R — RELAY
- B T — DOOR BELL/BUZZER AND TRANSFORMER – MTD CL UP 7'-0" AFF
- x-# — EQUIPMENT TAGS
- EQUIP#
- X — KEYED NOTE TAG
- X — REVISION TRIANGLE
- BRACKET

POWER

- NON-FUSED SAFETY SWITCH
- F — FUSED SAFETY SWITCH
- NON-FUSED DISCONNECT/MAGNETIC MOTOR STARTER
- M — MANUAL MOTOR SWITCH (MOTOR RATED SWITCH), TOGGLE OPERATED, SINGLE PHASE. 1 OR 2 POLE AS REQUIRED
- CB 100A — ENCLOSED CIRCUIT BREAKER W/AMPERE RATING
- (M) — ELECTRIC MOTOR, NUMBER INDICATES HORSEPOWER RATING, "f" INDICATES FRACTIONAL LESS THAN 1/2OHP OR 100W
- T — TRANSFORMER
- P — POWER POLE
- DUPLEX RECEPTACLE, NEMA 5-20R – MTD CL UP 24" OR AS NOTED."WP" WEATHER PROOF, "G" PROTECTED BY GFCI RECEPTACLE OR BREAKER UPSTREAM, "H" MOUNTED 0'-6" BELOW CEILING, "TV" MOUNT 7'-6" UP
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R – MTD CL UP 24" OR AS NOTED
- SINGLE RECEPTACLE, NEMA 5-20R – MTD CL UP 24" OR AS NOTED
- GFCI DUPLEX RECEPTACLE, NEMA 5-20R – MOUNTED CL UP 48" OR 6" ABOVE COUNTER
- DOUBLE DUPLEX GFCI RECEPTACLE, NEMA 5-20R – MOUNTED CL UP 48" OR 6" ABOVE COUNTER
- FLUSH FLOOR OUTLET, DUPLEX RECEPTACLE, NEMA 5-20R
- MULTI SERVICE FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE AND PROVISIONS FOR DATA
- POWER RECEPTACLE, NEMA CONFIGURATION AS NOTED OR AS REQUIRED FOR EQUIPMENT SERVED.
- FLUSH CEILING MTD DEVICE BOXES, ONE W/ DUPLEX RCPT FOR PROJECTOR POWER AND ONE FOR DATA TO SERVE OH PROJECTOR. RUN ONE 1 1/2"C TO JBOX LOCATED AT FRONT OF ROOM FOR PROJECTOR CABLE PATHWAY. VERIFY FINAL LOCATION W/ OWNER PRIOR TO ROUGH IN.
- MULITI-OUTLET POWER STRIP, MOUNT 0'-6" ABOVE COUNTERTOP, RECEPTACLE SPACING AS NOTED.

MISCELLANEOUS

- B / 80.01 — SECTION LETTER; SECTION CALL OUT; SHEET #
- DETAIL TITLE — 1 / X-0X — DETAIL CALL OUT

LIGHTING

- 2x4 LIGHT FIXTURE
- Ab — ASSOCIATED CONTROL DEVICE; FIXTURE TYPE (SEE LIGHT FIXTURE SCHEDULE)
- 1x4 LIGHT FIXTURE
- 2x2 LIGHT FIXTURE
- FIXTURE WITH INTEGRAL EMERGENCY BATTERY PACK
- FIXTURE WIRED TO UNSWITCHED EMERGENCY CIRCUIT
- DOWN LIGHT
- WALL MOUNTED FIXTURES
- POLE MOUNTED SITE LIGHTING FIXTURE
- ab — FIXTURE TYPE (SEE LIGHT FIXTURE SCHEDULE)
- FLOOD LIGHT
- EXIT SIGN, CEILING MOUNTED. ARROW INDICATES EGRESS DIRECTION. SHADING INDICATES SIGN FACE. NUMERAL INDICATES BATTERY UNIT CONNECTED
- EXIT SIGN, WALL MOUNTED 7'-6" AFF OR 0'-6" ABOVE DOOR. SHADING INDICATES SIGN FACE. NUMERAL INDICATES BATTERY UNIT CONNECTED TO.
- BATT — DUAL HEAD EMERGENCY LIGHT BATTERY PACK WITH NUMBER OF HEADS AS INDICATED – WALL MOUNTED MTD 7'-6" AFF. NUMERAL INDICATES BATTERY ID NUMBER.
- TANDEM EMERGENCY LIGHT BATTERY PACK & EXIT SIGN – WALL MOUNTED MTD 7'-6" AFF OR 0,-6" ABOVE DOOR. NUMERAL INDICATES BATTERY ID NUMBER.
- REMOTE EMERGENCY LIGHTING HEAD – WALL MOUNTED MTD 7'-6" AFF. NUMERAL INDICATES BATTERY UNIT CONNECTED TO.
- S — SINGLE POLE TOGGLE SWITCH – MTD CL UP 4'-0" AFF
- S_2 — DOUBLE POLE TOGGLE SWITCH – MTD CL UP 4'-0" AFF
- S_3 — 3-WAY TOGGLE SWITCH – MTD CL UP 4'-0" AFF
- S_4 — 4-WAY TOGGLE SWITCH – MTD CL UP 4'-0" AFF
- S_M — WALL MOUNTED OCCUPANCY SENSOR – MTD CL UP 4'-0" AFF
- S_P — TOGGLE SWITCH WITH PILOT LIGHT – MTD CL UP 4'-0" AFF
- S_D — DIMMER SWITCH – MTD CL UP 4'-0" AFF
- S_{LV} — LOW VOLTAGE SWITCH – MTD CL UP 4'-0" AFF
- a — OCCUPANCY SENSOR; a. INDICATES CONTROLLED FIXTURE
- PC — PHOTOCELL
- LC — LIGHTING CONTACTOR
- MS — MOTION SENSOR

FIRE ALARM DIAGRAM SYMBOLS

- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR
- FCPS — FIELD CHARGER POWER SUPPLY
- M — FIRE ALARM MASTER BOX
- K — KNOX BOX
- F — FIRE ALARM MANUAL PULL STATION – WALL MTD CL UP 4'-0"
- HL — FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE CANDELA (CD) POWER PER NFPA 72 OR AS NOTED – WALL MTD BOTTOM UP 80" AFF. "H" HORN, "V" VOICE.
- L — FIRE ALARM VISUAL NOTIFICATION APPLIANCE CANDELA (CD) POWER PER NFPA 72 OR AS NOTED – WALL MTD BOTTOM UP 80" AFF
- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- DUCT SMOKE DETECTOR S=SUPPLY, R=RETURN
- FS — SPRINKLER SYSTEM FLOW SWITCH
- TS — SPRINKLER SYSTEM TAMPER SWITCH
- PS — SPRINKLER SYSTEM PRESSURE SWITCH
- DH — FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER
- Z — MONITOR MODULE
- C — CONTROL MODULE
- R — RELAY MODULE

COMMUNICATIONS

- TEL — TELEPHONE BACKBOARD
- WX — PROVISIONS FOR TELEPHONE OUTLET. TWO-GANG WALL BOX WITH ONE 1"C STUB TO ABOVE ACCESSIBLE CEILING – MTD CL UP SAME AS ASSOCIATED RECEPTACLE
  W-INDICATES WALL MOUNTED AT 60" AFF
  P-INDICATES PAYPHONE MOUNTED AT 4'-0" AFF
  X-INDCATES NUMBER OF JACKS, SINGLE BOX
- PROVISIONS FOR DATA OUTLET. TWO-GANG WALL BOX WITH ONE 1"C STUB TO ABOVE ACCESSIBLE CEILING – MTD CL UP SAME AS ASSOCIATED RECEPTACLE. SUBSCRIPTS AS NOTED ABOVE.
- 2D2T — PROVISIONS FOR TELEPHONE & DATA OUTLET. TWO-GANG WALL BOX WITH ONE 1"C STUB TO ABOVE ACCESSIBLE CEILING – MTD CL UP SAME AS ASSOCIATED RECEPTACLE. SUBSCRIPTS AS NOTED ABOVE.
- PROVISIONS FOR SCADA SYSTEM OUTLET. TWO-GANG WALL BOX WITH ONE 1"C STUB TO ABOVE ACCESSIBLE CEILING – MTD CL UP SAME AS ASSOCIATED RECEPTACLE
- CEILING MOUNTED TELEPHONE SYSTEM OUTLET
- CEILING MOUNTED DATA SYSTEM OUTLET
- CEILING MOUNTED VOICE & DATA OUTLET
- FLUSH TELEPHONE FLOOR OUTLET
- FLUSH DATA FLOOR OUTLET
- FLUSH VOICE & DATA FLOOR OUTLET
- TV — TELEVISION COAXIAL OUTLET, MOUNTED UP SAME AS ASSOCIATED RECEPTACLE

SECURITY

- SEC — SECURITY PANEL
- DS — DOOR INTRUSION SWITCH
- DE — ELECTRIC DOOR STRIKE
- CR — CARD READER
- KP — KEY PAD
- MOTION DETECTOR
- CAM — SECURITY CAMERA PTZ = PAN/TILT/ZOOM

INTERCOM & PAGING SYSTEM

- S — CEILING MOUNTED SPEAKER
- PA — PAGING SYSTEM CONTROL PANEL
- HS — PAGING SYSTEM HANDSET

INSTRUMENTATION

- LS / XX — INSTRUMENT IDENTIFICATION TYPE; INSTRUMENT LOOP #
- FS / XX — VENDER SUPPLIED INSTRUMENT

INSTRUMENT IDENTIFIER:

AE	ANALYSIS ELEMENT
AIT	ANALYSIS INDICATING TRANSMITTER
AT	ANALYSIS TRANSMITTER
DPS	DIFFERENTIAL PRESSURE SWITCH
FCV	FLOW CONTROL VALVE
FE	FLOW ELEMENT
FIT	FLOW INDICATING TRANSMITTER
FT	FLOW TRANSMITTER
FS	FLOW SWITCH
LE	LEVEL ELEMENT
LIT	LEVEL INDICATING TRANSMITTER
LT	LEVEL TRANSMITTER
LS	LEVEL SWITCH
LSH	LEVEL SWITCH HIGH
LSL	LEVEL SWITCH LOW
MOV	MOTOR OPERATED VALVE
PE	PRESSURE ELEMENT
PIT	PRESSURE INDICATING TRANSMITTER
PT	PRESSURE TRANSMITTER
PS	PRESSURE SWITCH
SV	SOLENOID VALVE
TE	TEMPERATURE ELEMENT
TIT	TEMPERATURE INDICATING TRANSMITTER
TT	TEMPERATURE TRANSMITTER
ZS	PROXIMITY SWITCH

MISC TERMINALS

	ARROW, SMALL	■	POLARITY SQUARE
	ARROW, LARGE	⊘	SCREW TERMINAL
◀	ARROW, TRIANGULAR	○	TERMINAL POINT, SMALL
~	CONTINUE, SMALL	○	TERMINAL POINT, LARGE
~	CONTINUE, LARGE	□	TERMINAL POINT, SQUARE
·	DOT, SMALL	⬭	SHIELD
•	DOT, MEDIUM	⬭	SHIELD W/TERMINAL POINT
●	DOT, LARGE		

ONE-LINE DIAGRAM SYMBOLS

- 52 / GCB1 — CB 800A E.O — 52 — HV VOLTAGE DRAWOUT TYPE POWER CIRCUIT BREAKER ELECTRICALLY OPERATED
- MV VOLTAGE DRAWOUT TYPE POWER CIRCUIT BREAKER WITH MANUAL CONTROL SWITCH
- AT / AF / EO — LOW VOLTAGE CIRCUIT BREAKER
  AF – AMP FRAME
  AT – AMP TRIP
  EO – ELECTRICALLY OPERATED
- ST — ST – SHUNT TRIP
  GF – GROUND FAULT
  EO – ELECTRICALLY OPERATED
- DISCONNECT, ISOLATION OR SAFETY SWITCH
- FUSED DISCONNECT SWITCH
- 1 — MAGNETIC MOTOR STARTER. NUMERAL INDICATES NEMA SIZE FVNR UNLESS OTHERWISE NOTED.
  FVR – FULL VOLTAGE REVERSING
  RVAT – REDUCING VOLTAGE AUTO TRANSFORMER
  2S – TWO SPEED
  YD – WYE DELTA REDUCED VOLTAGE STARTER
- CAPACITOR
- VFD 11 — VFD = VARIABLE FREQUENCY DRIVE
  SS = SOLID STATE STARTER
  DC = DC VARIABLE DRIVE
  NUMERAL INDICATES AMP RATING
- OA — POWER TRANSFORMER
  OA – LIQUID TYPE SELF COOLED
  AA – DRY TYPE SELF COOLED
  FA – FAN COOLED
- CONNECTION
- 2 / 480/120 — POTENTIAL TRANSFORMER
  RATIO
  NUMBER REQUIRED
- 2 / 600/5 — CURRENT TRANSFORMER
  RATIO
  PHASE
- 5 — MOTOR, NUMERAL INDICATES HORSEPOWER
- X — GENERAL LOAD, NUMERAL INDICATES LOAD IN KVA
- GENERATOR
- N E L ATS — ATS – AUTOMATIC TRANSFER SWITCH
  MTS – MANUAL TRANSFER SWITCH
- A — METER
  A – AMMETER
  V – VOLTMETER
  W – WATTMETER
  KWH – KILOWATT HOUR
  KVAR – KILOVAR METER
  VAR – VAR METER
  HZ – FREQUENCY METER
  PF – POWER FACTOR METER
- 3 — LINE OR LOAD REACTOR
  NUMERAL INDICATES %
  IMPEDANCE
- DPM — DIGITAL POWER MONITOR
- AS — METER TRANSFER SWITCH
  AS – AMMETER SWITCH
  VS – VOLTMETER SWITCH
- SPD — SPD = SURGE PROTECTION DEVICE
  ENDN = ETHERNET TO DEVICENET LINKING DEVICE
  DPS = DEVICENET POWER SUPPLY
  FIELD MOUNTED INSTRUMENT
- MEDIUM VOLTAGE CABLE TERMINATION
- DRAWOUT DEVICE
- LA — LIGHTNING ARRESTOR
- K — KEY INTERLOCK

GROUNDING

- BARE COPPER GROUND CABLE. (SIZE 4/0 UNLESS OTHERWISE NOTED)
- 3/4ø X 10'-0" LONG GROUND ROD. (10'-0" MINIMUM LENGTH)
- EQUIPMENT BOLTED CONNECTION OR APPROVED EQUAL.
- CADWELD EXOTHERMIC CONNECTION
- GROUND

CONTROL DIAGRAM SYMBOLS

NOTE: ALL CONTROL SYMBOLS ARE DRAWN ASSUMING DE-ENERGIZED CIRCUITS, EMPTY TANKS, UNPRESSURIZED LINES, ETC.

OPEN ON INCREASE	CLOSE ON INCREASE	
		PRESSURE SWITCH
		LEVEL SWITCH
		FLOW SWITCH
		TEMPERATURE SWITCH
NORMALLY CLOSED	NORMALLY OPEN	
		PUSH BUTTON
		INSTANTANEOUS CONTACT
		TIMED CLOSE CONTACT
		TIMED OPEN CONTACT
		LIMIT SWITCH

- H O A / XOO / OOX — SELECTOR SWITCH: QUANTITY OF ARROWS INDICATES NUMBER OF POSITIONS. XOO INDICATES UPPER CONTACT CLOSED IN LEFT POSITION AND OPEN IN CENTER AND RIGHT POSITIONS
- INTERNAL WIRING
- FIELD WIRING
- RELAY COIL

ABBREVIATIONS

A,AMP	AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPT CAPACITY
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CL	CENTER LINE
CKT	CIRCUIT
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
E.C.	ELECTRICAL CONTRACTOR
EMT	ELECTRIC METALLIC TUBING
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FWE	FURNISHED WITH EQUIPMENT
G.C.	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
G,GND	GROUND
HP	HORSEPOWER
HZ	FREQUENCY IN CYCLES/SECOND
IG	ISOLATED GROUND
IMT	INTERMEDIATE METALLIC CONDUIT
JBOX	JUNCTION BOX
K	KILO
KCMIL	1000 CIRCULAR MILS
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
MCC	MOTOR CONTROL CENTER
MCB	MAIN CIRCUIT BREAKER
MFG	MANUFACTURER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTR	MOTOR
MV	MEDIUM VOLTAGE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEUT	NEUTRAL
NO	NORMALLY OPEN
OL	OVERLOAD ELEMENT
PF	POWER FACTOR
PH	PHASE
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RGS	RIGID STEEL CONDUIT
RTD	RESISTANCE TEMPERATURE DETECTOR
SEC	SECONDARY
SS	STAINLESS STEEL
SV	SOLENOID VALVE
TEMP	TEMPERATURE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UE	UNDERGROUND ELECTRIC
UG	UNDERGROUND
UPS	UNINTERRUPTED POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERES
VAR	VOLT-AMPERE REACTIVE
W	WATT
WM	WATT METER
WP	WEATHER PROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

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STATE OF MAINE — ANDREW J. FITZPATRICK — No. 15827 — REGISTERED PROFESSIONAL ENGINEER — 2019.02.13

REV	ISSUE FOR BID	DESCRIPTION	DATE
-			02/13/19

DESIGNED BY: KRM
DRAWN BY: AEP
CHECKED BY: AJF
213.30215-E-001.dwg

ELECTRICAL LEGEND

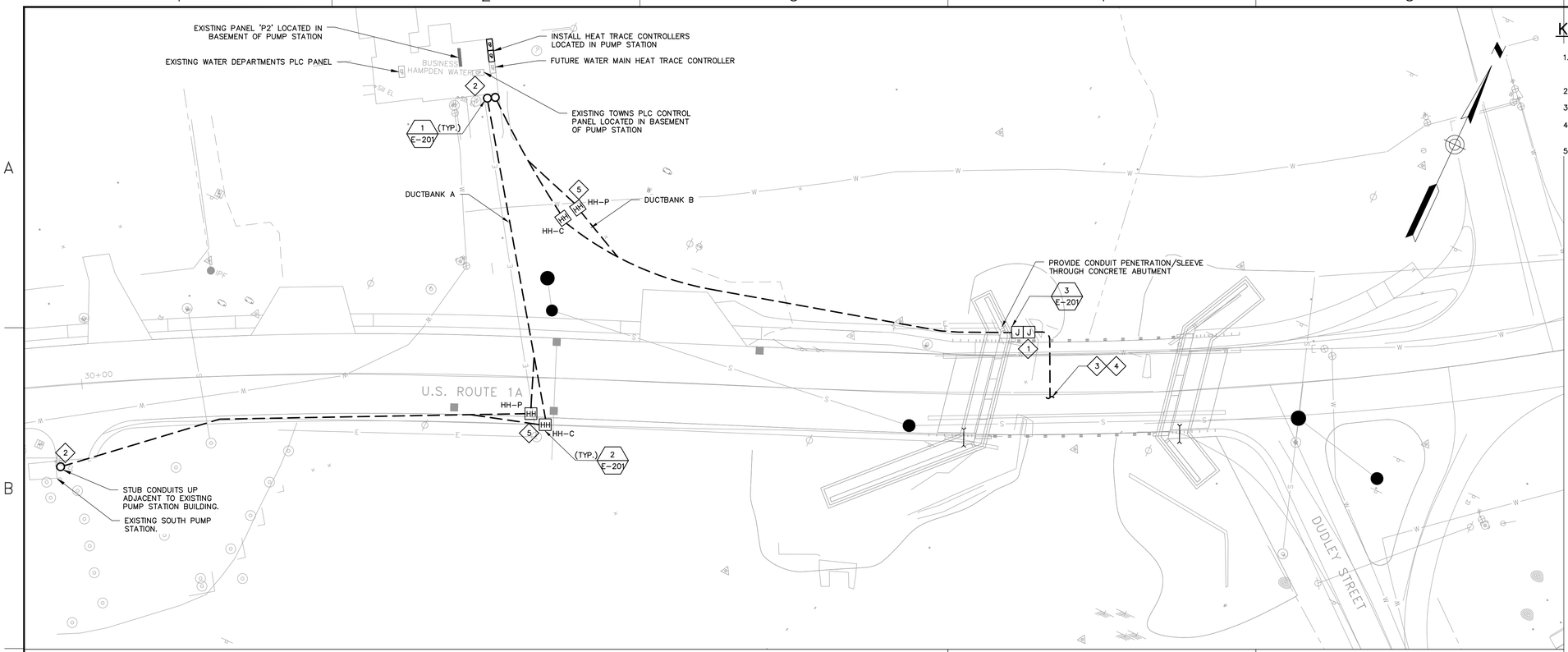
TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE
UTILITY CROSSING AND SEWER REPLACEMENT

JOB NO.:0213302.15
DATE:FEBRUARY, 2019
SCALE:NO SCALE
SHEET: 17 OF 19

E-001

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KEYED NOTES:

1. PROVIDE (2) NEMA 4X JUNCTION BOXES MOUNTED TO SIDE OF BRIDGE, ONE FOR HEAT TRACE POWER WIRING AND FOR TEMPERATURE SENSOR CONTROL WIRING. REFERENCE SHEET E–201 AND HEAT TRACE INSTALLATION DETAIL ON SHEET C–205.
2. CONDUIT STUB UPS TO SOUTH PUMP STATION SHALL BE CAPPED AT EXTERIOR OF BUILDING FOR FUTURE USE AT LOCATIONS INDICATED.
3. CONNECT TO HEAT TRACE POWER CONNECTION KITS BELOW BRIDGE (TYP. FOR 2). REFERENCE RISER DIAGRAM ON SHEET E–201.
4. INSTALL, WIRE AND CONNECT HEAT TRACE TEMPERATURE SENSORS BELOW BRIDGE. (TYP. FOR 4). REFERENCE RISER DIAGRAM ON SHEET E–201.
5. PROVIDE ONE HANDHOLE FOR POWER AND ONE FOR CONTROL.

25' 0 25' 50'

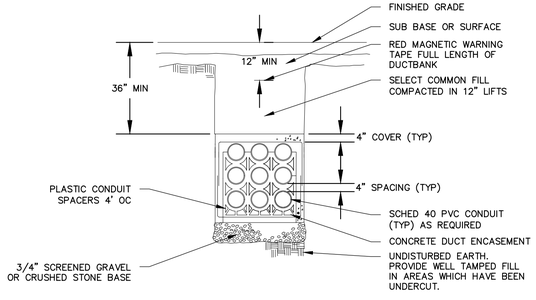
BAR SCALE
1" = 25'
CHECK GRAPHIC SCALE BEFORE USING

SITE DUCTBANK NOTES:

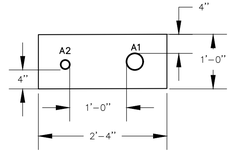
1. SEE TYPICAL DUCTBANK SECTION DETAILS (THIS SHEET) FOR DUCTBANK REQUIREMENTS. THE DUCTBANK TYPE LISTED UNDER "TYPE" COLUMN IN SITE DUCTBANK SCHEDULE, REFERS TO ASSOCIATED DUCTBANK DETAIL TYPE, 1 OR 2, AS DETAILED BELOW
2. PROVIDE MINIMUM 1'–0" SPACING WITHIN DUCTBANK BETWEEN POWER AND CONTROL/COMMUNICATIONS CONDUITS.
3. QUANTITY OF DUCTS SHOWN IN DETAILS ABOVE IS SHOW DIAGRAMMATICALLY ONLY TO SHOW GENERAL CONSTRUCTION AND SPACING REQUIREMENTS. QUANTITY AND SIZE OF CONDUITS SHALL BE AS IDENTIFIED IN THE DUCTBANK SCHEDULE AND DUCTBANK SECTIONS.
4. PROVIDE 4" LOAM AND SEED FOR DUCT BANK TRENCH IN NON–PAVED EXISTING GRASSED AREAS. PROVIDE BITUMINOUS PAVEMENT REPAIR IN EXISTING PAVED AREA'S. PROVIDE GRAVEL SURFACE REPAIR IN EXISTING GRAVEL AREAS.

DUCTBANK SCHEDULE

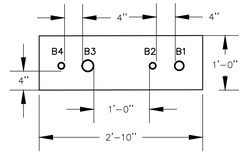
DUCTBANK	DESIGNATION	USE	SIZE	FROM	TO	DESCRIPTION
A	A1	POWER	3"	SOUADABSCOOK PUMP STATION	SOUTH PUMP STATION	FUTURE POWER TO SOUTH PUMP STATION
	A2	CONTROL	1 1/2"	SOUADABSCOOK PUMP STATION	SOUTH PUMP STATION	FUTURE CONTROL TO SOUTH PUMP STATION
B	B1	POWER	1 1/2"	SOUADABSCOOK PUMP STATION	REMOTE MOUNTED NEMA 4X POWER JBOX	HEAT TRACE POWER CONNECTIONS
	B2	POWER	1"	SOUADABSCOOK PUMP STATION	REMOTE MOUNTED NEMA 4X POWER JBOX	SPARE
	B3	CONTROL	2"	SOUADABSCOOK PUMP STATION	REMOTE MOUNTED NEMA 4X CONTROL JBOX	TEMPERATURE SENSOR WIRING
	B4	CONTROL	1"	SOUADABSCOOK PUMP STATION	REMOTE MOUNTED NEMA 4X CONTROL JBOX	SPARE



TYPICAL CONCRETE ENCASED UNDERGROUND DUCT BANK DETAIL



DUCTBANK SECTION (A / E–101)
SCALE: 3/4" = 1'–0"



DUCTBANK SECTION (B / E–101)
SCALE: 3/4" = 1'–0"

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2019.02.13

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213.0215-E-101.dwg

ELECTRICAL SITE PLAN

TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

CRIST MILL BRIDGE UTILITY CROSSING AND SEWER REPLACEMENT

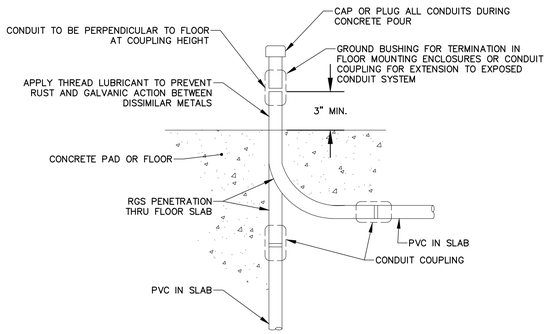
JOB NO.: 0213302.15
DATE: FEBRUARY, 2019
SCALE: 1" = 25'
SHEET: 18 OF 19

E-101

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NOTE:

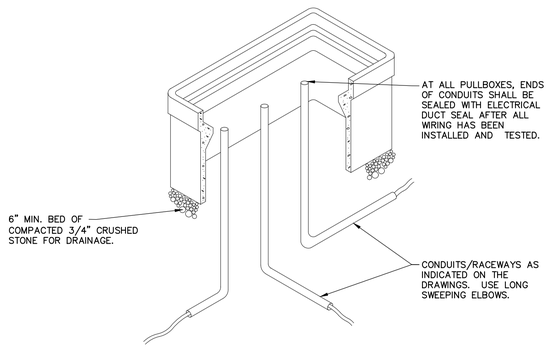
APPLICABLE FOR ALL IN-SLAB AREAS
UNLESS NOTED OTHERWISE.



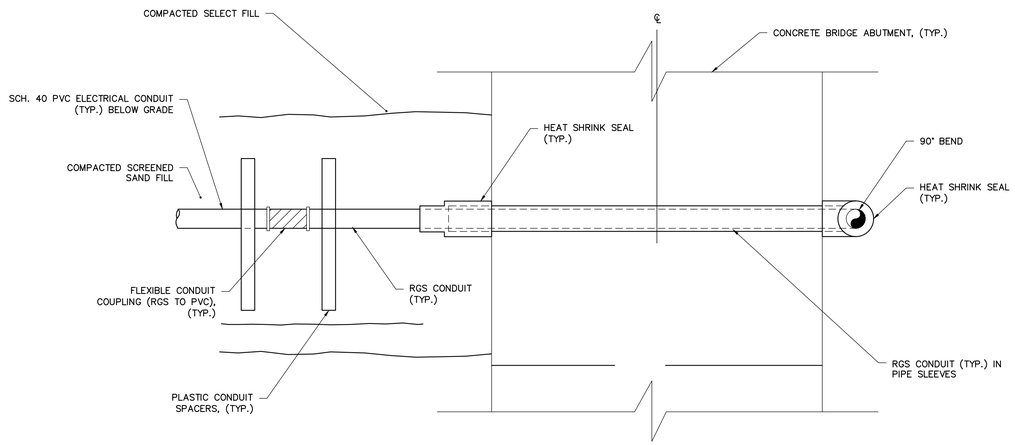
1 E-101 **TYPICAL IN-SLAB CONDUIT STUB-UP DETAIL**
SCALE: N.T.S.

NOTES:

1. CONDUITS NOT TERMINATING IN OR AT THE PULLBOX(ES) SHALL NOT RUN THROUGH PULLBOX(ES) UNLESS REQUIRED FOR PULLING.
2. FINAL DIMENSIONS OF PULLBOX(ES) SHALL BE AS VERIFIED IN THE FIELD AND SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS.
3. PULLBOX COVER(S) SHALL BE POLYMER CONCRETE, SKID RESISTANT, AND SHALL BE MARKED "ELECTRIC". PROVIDE EXTENSIONS TO MEET FINISH GRADE.
4. PULLBOX(ES) SHALL BE PRECAST EQUAL TO: QUAZITE, HIGHLINE, OR ENGINEER APPROVED EQUAL.
5. UTILIZE TIER RATING APPROPRIATE FOR INSTALLATION LOCATION. PROVIDE AASHTO#20 RATED PULLBOXES WHERE SUBJECT TO TRAFFIC.



2 E-101 **HANDHOLE/PULLBOX DETAIL (NON-PAVED AREAS)**
SCALE: N.T.S.



3 E-101 **ABUTMENT CONDUIT SLEEVE DETAIL**
NOT TO SCALE

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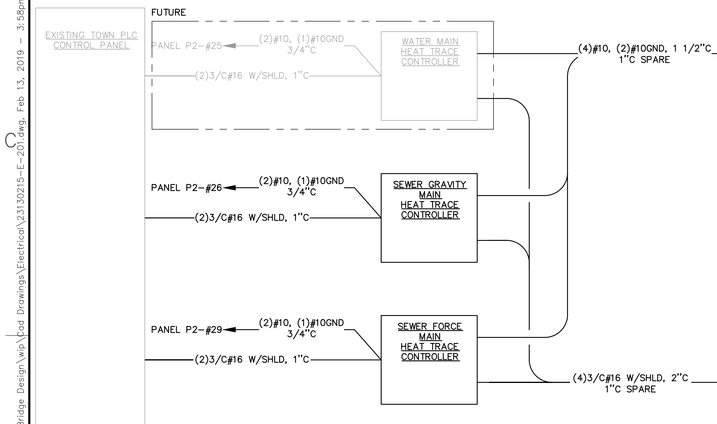
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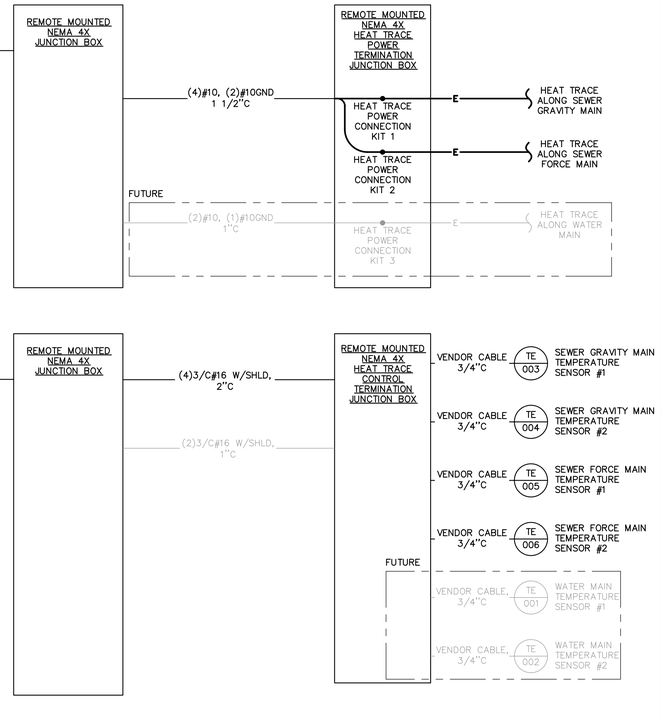
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DRAWN BY: AEP
CHECKED BY: AJF
2313025-E-201.dwg

SOUADABSCOOK PUMP STATION BUILDING



GRIST MILL BRIDGE AREA



GENERAL NOTES:

1. CONDUIT SIZES NOT IDENTIFIED SHALL BE MINIMUM 3/4", UNLESS OTHERWISE NOTED.
2. WIRING FOR THE FOLLOWING CATEGORIES SHALL BE INSTALLED IN SEPARATE RACEWAYS. DO NOT COMBINE CATEGORIES IN A SINGLE CONDUIT.
   A. 120V POWER WIRING
   B. DIGITAL/DISCRETE CONTROL WIRING (120VAC & 24VDC)
   C. ANALOG SIGNAL WIRING (4-20mADC)
   D. COMMUNICATIONS
3. LOCATION OF DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE. REFER TO DRAWINGS FOR EXACT LOCATIONS. FINAL LOCATIONS TO BE DETERMINED IN FIELD TO MATCH EQUIPMENT SUPPLIED BY CONTRACTOR.
4. COORDINATE FINAL GENERAL CABLE AND CONNECTION REQUIREMENTS WITH APPROVED EQUIPMENT. (TYP.)

POWER & CONTROL RISER DIAGRAM

SCALE: NO SCALE

DIRECTORY	BRKR	POLE	CKT #	KVA	KVA LOADS A	KVA LOADS B	KVA LOADS C	KVA	CKT #	POLE	BRKR	DIRECTORY
SPACE			1		0.00				2			
SPACE			3			0.00			4	3	100	MAIN BREAKER
SPACE			5				0.00		6			
GENERATOR FUEL PUMP	15	1	7		0.00				8	1	15	SPARE
BLOCK HEATER GENERATOR	25	1	9			0.00			10	1	20	GENERATOR ROOM RCPT
PUMP ROOM RCPT	15	1	11				0.00		12	1	15	PUMP ROOM RECPT
SPARE	15	1	13		0.00				14	1	15	PUMP ROOM RECPT
HEATER GENERATOR	15	1	15			0.00			16			
EXISTING	30	2	17				0.00		18	3	15	EXHAUST FAN
			19		0.00				20			
EXISTING	30	2	21			0.00			22	2	20	SUMP PUMP
			23				0.00		24			
FUTURE BRIDGE WATER HEAT TRACE	30	2	25		0.46			0.46	26	2	30	BRIDGE GRAVITY MAIN HEAT TRACE
			27			0.46		0.46	28			
BRIDGE FORCE MAIN HEAT TRACE	30	2	29	0.46			0.46		30			SPACE
			31	0.46	0.46				32			SPACE
SPACE			33			0.00			34			SPACE
SPACE			35				0.00		36			SPACE
SPACE			37		0.00				38			SPACE
SPACE			39			0.00			40			SPACE
SPACE			41				0.00		42			SPACE
				SUBTOTAL	0.92	0.46	0.46	SUBTOTAL				

VOLTAGE:	120/208	TOTAL KVA	1.84	PANEL NAME:	P2
MAIN BREAKER:	100	TOTAL AMPS	5	LOCATION:	PS BASEMENT
BUSES:	100			MOUNTING:	SURFACE
PH & WIRES:	3PH 4W			AIC RATING:	10 kAIC

NOTES:
ALL ITEMS SHOWN WITH LIGHT DESIGNATION INDICATES EXISTING CIRCUITS. ALL ITEMS SHOWN WITH BOLD DESIGNATION INDICATES NEW CIRCUITS AND/OR BREAKERS.

ELECTRICAL DETAILS, SCHEDULES AND RISER DIAGRAM

TOWN OF HAMPDEN AND HAMPDEN WATER DISTRICT
HAMPDEN, MAINE

GRIST MILL BRIDGE UTILITY CROSSING AND SEWER REPLACEMENT

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E-201

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