

MODEL: Default
FILE NAME: W:\304-248 IDOT Kirk Road over UPRR CAD Sheets\12-20192-04-BR_SHT_500.dgn

1

SPECIALTY ITEM

BLA, Inc.

USER NAME -	cessario	DESIGNED -	REVISED -
		DRAWN -	REVISED -
PLOT SCALE -	40.0000' / in.	CHECKED -	REVISED -
PLOT DATE -	7/14/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KIRK ROAD – CHERRY LANE TO ILLINOIS ROUTE 38
SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 22 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0360	12-00192-04-BR	KANE	518	4
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

MODEL: (Default)
FILE NAME: W:\304-248\DOT Kirk Road over UPRR\CAD Sheets\12-00192-04-BR_SHT_500.dgn

LBFP (80% / 20%)																
CODE NO.	ITEM	UNIT	QUANTITY	ROADWAY	MSE Wall 1	MSE Wall 2	MSE Wall 3	MSE Wall 4	White's Creek Bridge (SN 045-3186)	Reed Road Bridge (SN 045-3133)	UPRR Bridge (SN 045-3134)	Traffic Signal (Cherry Lane) Non-IDOT	Traffic Signal (IL Route 38) IDOT	LIGHTING	LANDSCAPING	TRAINEE
				0003	0044	0044	0044	0044	0010	0010	0010	0021	0021	0021	0031	0042
50300285	FORM LINER TEXTURED SURFACE	SQ FT	52,049		11325	14020	17277	9427								
50300300	PROTECTIVE COAT	SQ YD	5,493		1308	310	765	1244	552	603	711					
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	880.5						282.9	311.7	285.9					
50401310	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL36	FOOT	974						974							
50401315	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL36N	FOOT	1,017						82	935						
50401330	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL54	FOOT	1,462								1462					
50401335	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL54N	FOOT	122								122					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	908,900		72910	17320	43310	65810	210010	242960	256580					
50800515	BAR SPLICERS	EACH	2,777						601	1002	1174					
# 50901739	BRIDGE FENCE RAILING, CURVED	FOOT	123								123					
51201900	FURNISHING STEEL PILES HP14X89	FOOT	3,992						1968	2024						
51202100	FURNISHING STEEL PILES HP14X117	FOOT	2,220								2220					
51202305	DRIVING PILES	FOOT	6,212						1968	2024	2220					
51203900	TEST PILE STEEL HP14X89	EACH	4						2	2						
51204100	TEST PILE STEEL HP14X117	EACH	2								2					
51204650	PILE SHOES	EACH	76						26	24	26					

SPECIALTY ITEM

MODEL: D:\cadd\11894248\DOT Kirk Road over UPRRCAD Sheets\12-00192-04-BR_SHT_SQO.dgn
FILE NAME: 11894248 DOT Kirk Road over UPRRCAD Sheets\12-00192-04-BR_SHT_SQO.dgn

LBFP (80% / 20%)																
CODE NO.	ITEM	UNIT	QUANTITY	ROADWAY	MSE Wall 1	MSE Wall 2	MSE Wall 3	MSE Wall 4	White's Creek Bridge (SN 045-3186)	Reed Road Bridge (SN 045-3133)	UPRR Bridge (SN 045-3134)	Traffic Signal (Cherry Lane) Non-IDOT	Traffic Signal (IL Route 38) IDOT	LIGHTING	LANDSCAPING	TRAINEE
				0003	0044	0044	0044	0044	0010	0010	0010	0021	0021	0021	0031	0042
#	X2501810	SEEDING, CLASS 5 (SPECIAL)	ACRE	0.25											0.25	
#	X2501820	SEEDING, CLASS 5 (MODIFIED)	ACRE	0.25	0.25											
#	X2502014	SEEDING, CLASS 4A (MODIFIED)	ACRE	0.25	0.25											
#	X2502019	SEEDING, CLASS 4B (SPECIAL)	ACRE	0.25											0.25	
	X2810844	REMOVE EXISTING RIPRAP	SQ YD	391	391											
#	X3020004	ENGINEERED SOIL FURNISH AND PLACE (SPECIAL)	CU YD	37											37	
	X4060294	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"	SQ YD	729	691										38	
	X4400050	BARRIER WALL REMOVAL	FOOT	32	32											
	X5012501	CONCRETE REMOVAL (SPECIAL)	SQ YD	10	10											
	X5020100	AGGREGATE COLUMN GROUND IMPROVEMENT	L SUM	1			1									
	X5021507	DEWATERING	L SUM	1	1											
	X5030290	STAINING CONCRETE STRUCTURES	SQ FT	52.957	11325	14020	17277	10335								
	X5080530	BAR TERMINATORS	EACH	3.637					1170	1286	1181					
#	X5091725	BICYCLE RAILING (SPECIAL)	FOOT	1.326	351	83	205	346	142	139	60					
	X5230201	TEMPORARY DRAINAGE SYSTEM NO.1	L SUM	1					0.33	0.33	0.33					
# SPECIALTY ITEM																

MODEL D:\dell4
FILE NAME: W9304-048 KDOT Ktk Road over UPRRCAD Sheets12-20192-04-8R_SHT_SCHEDULE OF QTY5.dgn

PERIMETER EROSION BARRIER			
STATION	STATION	LOCATION	QUANTITY
			(EACH)
KIRK ROAD			
103+00.00	109+00.00	LT	372
103+00.00	109+00.00	RT	735
109+00.00	115+00.00	LT	604
109+00.00	115+00.00	RT	602
115+00.00	121+00.00	LT	268
115+00.00	121+00.00	RT	503
121+00.00	126+00.00	LT	709
121+00.00	126+00.00	RT	573
126+00.00	131+50.00	LT	1010
126+00.00	131+50.00	RT	515
106+50.00	112+50.00	LT	660
TOTAL			6551

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS				
STATION	STATION	LOCATION	QUANTITY	
			(FOOT)	
KIRK ROAD- HMA PAVEMENT REMOVAL				
108+00.00	114+00.00	LT/RT	151	
120+00.00	126+00.00	LT	83	
TOTAL			234	

GUARDRAIL REMOVAL				
STATION	STATION	LOCATION	QUANTITY	
			(FOOT)	
KIRK ROAD- HMA PAVEMENT REMOVAL				
109+31.03	111+08.35	LT	178	
108+06.12	111+08.68	RT	303	
124+92.51	125+77.54	LT	87	
125+04.94	126+08.26	RT	103	
TOTAL			671	

BACK SIDE PROTECTION OF GUARDRAIL				
STATION	STATION	LOCATION	QUANTITY	
			(FOOT)	
KIRK ROAD- HMA PAVEMENT REMOVAL				
108+00.00	114+00.00	LT/RT	151	
120+00.00	126+00.00	LT	83	
TOTAL			234	

BARRIER WALL REFLECTORS, TYPE C			
STAGE	STATION	STATION	QUANTITY
			(FOOT)
KIRK ROAD			
STAGE 1	110+00.00	114+00.00	21
STAGE 1	114+00.00	120+00.00	24
STAGE 1	120+00.00	126+00.00	24
TOTAL			69

NOTE: FOR
SEEDING CLASS 1
SEEDING CLASS 5 (SPECIAL)
SEEDING CLASS 4B (SPECIAL)
REFER TO LANDSCAPING PLANS L1.0-L3.0

SEEDING, CLASS 3				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(ACRES)
KIRK ROAD				
103+00.00	109+00.00	LT	10307	0.24
103+00.00	109+00.00	RT	3925	0.09
109+00.00	115+00.00	LT	26050	0.60
121+00.00	126+00.00	LT	12514	0.29
121+00.00	126+00.00	RT	11661	0.27
126+00.00	131+50.00	LT	7368	-
126+00.00	131+50.00	RT	10424	0.24
TOTAL				1.72
TOTAL ROUNDED TO NEAREST 0.25 ACRES				1.75

SEEDING, CLASS 5 (MODIFIED)				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(ACRES)
KIRK ROAD				
121+00.00	126+00.00	RT	8105	0.19
TOTAL				0.2
TOTAL ROUNDED TO NEAREST 0.25				0.25

SEEDING, CLASS 4A (MODIFIED)				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(ACRES)
KIRK ROAD				
121+00.00	126+00.00	RT	8105	0.19
TOTAL				0.2
TOTAL ROUNDED TO NEAREST 0.25 ACRES				0.25

SEEDING, CLASS 2A				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(ACRES)
KIRK ROAD				
103+00.00	109+00.00	LT	7849	0.18
103+00.00	109+00.00	RT	8526	0.20
109+00.00	115+00.00	LT	1343	0.03
109+00.00	115+00.00	RT	17429	0.40
121+00.00	126+00.00	LT	18772	0.43
121+00.00	126+00.00	RT	15661	0.36
126+00.00	131+50.00	LT	21358	0.49
126+00.00	131+50.00	RT	16276	0.37
131+50.00	137+50.00	RT	2559	0.06
TOTAL				2.5

SEEDING, CLASS 4B				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(ACRES)
KIRK ROAD				
115+00.00	121+00.00	RT	2104	0.05
121+00.00	126+00.00	RT	8164	0.19
TOTAL				0.24
TOTAL ROUNDED NEAREST 0.25				0.25

NITROGEN FERTILIZER NUTRIENT				
STATION	STATION	LOCATION	AREA	QUANTITY
			(ACRES)	(POUND)
KIRK ROAD - SEEDING CLASS 2A				
103+00.00	109+00.00	LT	0.18	16
103+00.00	109+00.00	RT	0.20	18
109+00.00	115+00.00	LT	0.03	3
109+00.00	115+00.00	RT	0.40	36
121+00.00	126+00.00	LT	0.43	39
121+00.00	126+00.00	RT	0.36	32
126+00.00	131+50.00	LT	0.49	44
126+00.00	131+50.00	RT	0.37	34
131+50.00	137+50.00	RT	0.06	5
POND - SEEDING CLASS 1				
POND ENHANCEMENTS			0.25	23
TOTAL				249

POTASSIUM FERTILIZER NUTRIENT				
STATION	STATION	LOCATION	AREA	QUANTITY
			(ACRES)	(POUND)
KIRK ROAD - SEEDING CLASS 2A				
103+00.00	109+00.00	LT	0.18	16
103+00.00	109+00.00	RT	0.20	18
109+00.00	115+00.00	LT	0.03	3
109+00.00	115+00.00	RT	0.40	36
121+00.00	126+00.00	LT	0.43	39
121+00.00	126+00.00	RT	0.36	32
126+00.00	131+50.00	LT	0.49	44
126+00.00	131+50.00	RT	0.37	34
131+50.00	137+50.00	RT	0.06	5
POND - SEEDING CLASS 1				
POND ENHANCEMENTS			0.25	23
TOTAL				249

WILDLIFE FRIENDLY EROSION CONTROL BLANKET				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(SQ YD)
KIRK ROAD				
103+00.00	109+00.00	LT/RT	23222	2580
109+00.00	115+00.00	LT/RT	43917	4880
115+00.00	121+00.00	LT/RT	21405	2378
121+00.00	126+00.00	LT/RT	73263	8140
126+00.00	131+50.00	LT/RT	52960	5884
131+50.00	137+50.00	LT/RT	2558	284
106+50.00	112+50.00	LT	72964	8107
TOTAL				32254

TOPSOIL FURNISH AND PLACE, 6"				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(SQ YD)
KIRK ROAD				
103+00.00	109+00.00	LT/RT	23222	2580
109+00.00	115+00.00	LT/RT	43917	4880
115+00.00	121+00.00	LT/RT	17614	1957
121+00.00	126+00.00	LT/RT	55440	6160
126+00.00	131+50.00	LT/RT	52960	5884
131+50.00	137+50.00	LT/RT	2558	284
106+50.00	112+50.00	LT	40343	4483
POND				
POND ENHANCEMENTS			26073	2897
TOTAL				26228

PIPE UNDERDRAINS, TYPE 2, 4"			
STATION	STATION	LOCATION	LENGTH (FT)
KIRK ROAD- ROADWAY			
102+00.00	108+00.00	LT	215
102+00.00	108+00.00	RT	215
108+00.00	114+00.00	LT	600
108+00.00	114+00.00	RT	600
114+00.00	120+00.00	LT	-
114+00.00	120+00.00	RT	-
120+00.00	126+00.00	LT	400
120+00.00	126+00.00	RT	400
126+00.00	131+00.00	LT	450
126+00.00	131+00.00	RT	450
KIRK ROAD-MULTI-USE PATH			
102+00.00	108+00.00	LT	215
108+00.00	114+00.00	LT	325
114+00.00	120+00.00	LT	-
120+00.00	126+00.00	LT	55
126+00.00	131+00.00	LT	500
TOTAL			4425

AGGREGATE SUBGRADE IMPROVEMENT 12"				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(SQ YD)
KIRK ROAD				
102+00.00	108+00.00	LT/RT	26640	2960
108+00.00	114+00.00	LT/RT	52905	5878
114+00.00	120+00.00	LT/RT	48020	5336
120+00.00	126+00.00	LT/RT	55600	6178
126+00.00	131+88.00	LT/RT	54920	6102
TOTAL				26454

SUBBASE GRANULAR MATERIAL, TYPE B 4"				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(SQ YD)
TEMPORARY PAVEMENT-STAGE 1				
125+00.00	140+42.85	LT/RT	10508	1168
140+42.85	149+00.00	LT	780	87
TEMPORARY PAVEMENT-STAGE 2 AND 3				
125+00.00	140+42.85	LT	3140	349
TOTAL				1603

AGGREGATE BASE COURSE, TYPE B 12"				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(SQ YD)
BIKE PATH				
102+00.00	108+00.00	LT	2450	272
108+00.00	114+00.00	LT	3400	378
120+00.00	126+00.00	LT	740	82
126+00.00	131+88.00	LT	4780	531
TOTAL				1263

PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(SQ YD)
KIRK ROAD				
102+00.00	108+00.00	LT/RT	23080	2564
108+00.00	114+00.00	LT	22258	2473
108+00.00	114+00.00	RT	21603	2400
114+00.00	120+00.00	LT	21652	2406
114+00.00	120+00.00	RT	21550	2394
120+00.00	126+00.00	LT	21925	2436
120+00.00	126+00.00	RT	23448	2605
126+00.00	131+88.00	LT/RT	47500	5278
TOTAL				22557

PAVEMENT REMOVAL				
STATION	STATION	LOCATION	AREA	QUANTITY
			(SQ FT)	(SQ YD)
KIRK ROAD- HMA PAVEMENT REMOVAL				
102+00.00	108+00.00	LT/RT	20225	2247
108+00.00	114+00.00	LT/RT	18778	2086
KIRK ROAD- PCC PAVEMENT				
120+00.00	126+00.00	LT	2555	284
120+00.00	126+00.00	RT	2490	277
126+00.00	131+88.00	LT/RT	37000	4111
TEMPORARY PAVEMENT-STAGE 1				
125+00.00	140+42.85	LT/RT	10508	1168
140+42.85	149+00.00	LT	780	87
TEMPORARY PAVEMENT-STAGE 2 AND 3				
125+00.00	140+42.85	LT	3140	349
TOTAL				10608

MODEL Dwg: 1
FILE NAME: W99B4-04B IDOT Kkt Road over UPRRCAD Sheets12-00192-04-BR_Sht_ SCHEDULE OF QTYs.dgn

MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS			
STATION	STATION	LOCATION	QUANTITY (SQ FT)
KIRK ROAD			
100+00.00	105+00.00	RT	36.4
105+00.00	108+00.00	LT	145.6
126+00.00	132+00.00	LT	72.8
126+00.00	132+00.00	RT	145.6
132+00.00	138+00.00	LT	72.8
132+00.00	138+00.00	RT	109.2
138+00.00	143+45.00	RT	36.4
TOTAL			619
MODIFIED URETHANE PAVEMENT MARKING - LINE 4"			
STATION	STATION	LOCATION	QUANTITY (FOOT)
KIRK ROAD			
95+00.00	100+00.00	LT/RT	200
95+00.00	100+00.00	RT	165
95+00.00	100+00.00	LT	16.5
100+00.00	105+00.00	LT/RT	3680
100+00.00	105+00.00	RT	148.5
100+00.00	105+00.00	LT	148.5
132+00.00	138+00.00	LT	176
132+00.00	138+00.00	RT	182
138+00.00	143+45.00	LT	172
138+00.00	143+45.00	RT	178
TOTAL			5065
MODIFIED URETHANE PAVEMENT MARKING - LINE 6"			
STATION	STATION	LOCATION	QUANTITY (FOOT)
KIRK ROAD			
100+00.00	105+00.00	RT	61
100+00.00	105+00.00	RT	125
126+00.00	132+00.00	RT	44
126+00.00	132+00.00	LT/RT	139
126+00.00	132+00.00	LT	196
132+00.00	138+00.00	LT	15
132+00.00	138+00.00	RT	13
132+00.00	138+00.00	LT	123
132+00.00	138+00.00	LT	182
132+00.00	138+00.00	LT	368
132+00.00	138+00.00	LT	368
132+00.00	138+00.00	LT	56
132+00.00	138+00.00	RT	186
138+00.00	143+45.00	LT	41
138+00.00	143+45.00	RT	16
138+00.00	143+45.00	RT	186
TOTAL			2118
MODIFIED URETHANE PAVEMENT MARKING - LINE 12"			
STATION	STATION	LOCATION	QUANTITY (FOOT)
KIRK ROAD			
105+00.00	108+00.00	RT	34
108+00.00	114+00.00	LT	95
108+00.00	114+00.00	RT	102
114+00.00	120+00.00	LT	85
114+00.00	120+00.00	RT	102
120+00.00	126+00.00	LT	102
120+00.00	126+00.00	RT	85
126+00.00	132+00.00	LT	56
126+00.00	132+00.00	RT	348
132+00.00	138+00.00	LT	210
TOTAL			1219
MODIFIED URETHANE PAVEMENT MARKING - LINE 24"			
STATION	STATION	LOCATION	QUANTITY (FOOT)
KIRK ROAD			
100+00.00	105+00.00	LT	37
105+00.00	108+00.00	LT/RT	55
126+00.00	132+00.00	LT/RT	76
132+00.00	138+00.00	LT/RT	77
TOTAL			245

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RIPRAP SIZE AND PLACEMENT CHART											
RIPRAP NUMBER	STRUCTURE STATION	ROAD	DIAMETER	STRUCTURE NUMBER	IDOT ROCK GRADATION	L-apron (ft)	W1 (ft)	W2 (ft)	tmin (in)	t-bed (in)	RIPRAP CLASS A4 (SQ YD)
RR-1	109+03.51	KIRK	24"	S208	RR-3	14	6	11.6	8	8	14
RR-2	109+25.68	KIRK	36"	S209	RR-3	16	9	15.4	8	8	22
RR-3	109+41.89	DETENTION	24"	S236	RR-3	14	6	11.6	8	8	14
RR-4	110+43.68	DETENTION	24"	S239	RR-3	14	6	11.6	8	8	14
RR-5	116+25.36	KIRK	12"	S319	RR-3	12	3	7.8	8	8	7
RR-6	118+80.11	KIRK	24"	S322	RR-3	14	6	11.6	8	8	14
RR-7	123+86.28	KIRK	24"	S425	RR-3	14	6	11.6	8	8	14
RR-8	124+21.03	KIRK	24"	S426	RR-3	14	6	11.6	8	8	14
TOTAL											113
											160

TREE REMOVAL (6 TO 15 UNITS DIAMETER)		
STATION	LOCATION	QUANTITY (UNIT)
KIRK ROAD - TREE REMOVAL (6 TO 15 UNITS DIAMETER)		
108+79.24	77.37 LT	12
109+72.24	63.91 LT	12
109+87.25	68.37 LT	12
109+74.19	79.90 LT	12
108+50.74	332.48 LT	6
108+81.92	324.77 LT	6
109+97.65	217.89 LT	12
112+78.55	74.74 LT	15
113+28.80	56.37 LT	7
113+39.77	48.51 LT	7
113+34.26	64.03 LT	9
113+99.42	70.27 LT	8
114+18.09	65.39 LT	12
114+23.36	55.18 LT	8
114+33.33	58.84 LT	11
114+85.30	71.85 LT	10
115+13.52	61.23 LT	6
115+39.34	64.03 LT	6
115+36.84	58.02 LT	13
TOTAL		184

TREE REMOVAL (OVER 15 UNITS DIAMETER)		
STATION	LOCATION	QUANTITY (UNIT)
KIRK ROAD - TREE REMOVAL (OVER 15 UNITS DIAMETER)		
108+89.92	90.33 LT	18
109+04.99	79.77 LT	18
109+86.77	62,332 LT	24
110+18.19	47.08 LT	18
110+25.98	74.92 LT	18
110+59.88	57.73 LT	30
108+43.56	204.44 LT	48
108+42.98	234.38 LT	18
108+43.56	255.57 LT	22
108+49.30	264.20 LT	18
108+60.10	286.09 LT	18
109+84.35	190.35 LT	20
109+96.23	241.87 LT	20
110+97.73	53.90 RT	18
110+99.25	66.43 RT	18
113+82.65	67.16 LT	18
115+39.29	69.53 LT	19
TOTAL		363

PERVIOUS HOT-MIX ASPHALT					
STATION	STATION	LOCATION	AREA (SQ FT)	AREA (SQ YD)	QUANTITY (TON)
KIRK ROAD					
105+00.00	111+25.00	LT	5843	649	145
125+25.00	131+00.00	LT	5527	614	138
TOTAL					283

TEMPORARY EROSION CONTROL SEEDING					
STATION	STATION	LOCATION	AREA (SQ FT)	AREA (ACRES)	QUANTITY (POUND)
KIRK ROAD					
103+00.00	109+00.00	LT/RT	23222	0.53	53
109+00.00	115+00.00	LT/RT	43917	1.01	101
115+00.00	121+00.00	LT/RT	17614	0.40	40
121+00.00	126+00.00	LT/RT	55440	1.27	127
126+00.00	131+50.00	LT/RT	52960	1.22	122
131+50.00	137+50.00	LT/RT	2558	0.06	6
106+50.00	112+50.00	LT	40343	0.93	93
TOTAL					542

PROTECTIVE COAT			
STATION	STATION	AREA (SQ FT)	QUANTITY (SQ YD)
KIRK ROAD			
102+00.00	108+00.00	29100	3233
108+00.00	114+00.00	56310	6257
114+00.00	120+00.00	48020	5336
120+00.00	126+00.00	56350	6261
126+00.00	131+88.00	59750	6639
131+88.00	138+00.00	5901	656
138+00.00	144+00.00	6095	677
TOTAL			29058

REMOVE CONCRETE FOUNDATION - GROUND MOUNT		
STATION	OFFSET	QUANTITY (EACH)
KIRK ROAD		
108+17.39	39.10' RT	1
126+26.80	41.94' LT	1
TOTAL		2

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH			
STATION	STATION	LOCATION	QUANTITY (SQ FT)
ADA RAMPS			
105+51.61	105+65.61	LT	103
130+86.15	131+01.98	LT	92
TOTAL			195

TEMPORARY CONCRETE BARRIER			
STAGE	STATION	STATION	QUANTITY (FOOT)
KIRK ROAD			
STAGE 1	105+00.00	114+00.00	837.5
STAGE 1	114+00.00	120+00.00	600
STAGE 1	120+00.00	126+00.00	587.5
STAGE 1	126+00.00	131+00.00	-
STAGE 2	105+00.00	114+00.00	825
STAGE 2	114+00.00	120+00.00	600
STAGE 2	120+00.00	126+00.00	550
STAGE 2	126+00.00	131+00.00	-
TOTAL			4000

PINNING TEMPORARY CONCRETE BARRIER					
STAGE	STATION	STATION	TCB (LENGTH)	TCB (STICKS)	QUANTITY (EACH)
KIRK ROAD (2 PINS PER STICK)					
STAGE 1	105+00.00	114+00.00	837.5	67	134
STAGE 1	114+00.00	120+00.00	600	48	96
STAGE 1	120+00.00	126+00.00	587.5	47	94
STAGE 1	126+00.00	131+00.00	-	-	-
STAGE 2	105+00.00	114+00.00	-	-	-
STAGE 2	114+00.00	120+00.00	-	-	-
STAGE 2	120+00.00	126+00.00	-	-	-
STAGE 2	126+00.00	131+00.00	-	-	-
Note: Pins not included for Stage 2 into finished deck					
TOTAL					324



BLA, Inc.

USER NAME = cesario	DESIGNED -	REVISED - 1 07/10/2026
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / 1in	CHECKED -	REVISED -
PLOT DATE = 7/14/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KIRK ROAD – CHERRY LANE TO ILLINOIS ROUTE 38
SCHEDULE OF QUANTITIES

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0360	12-00192-04-BR	KANE	518	34
CONTRACT NO. 61M13				
ILLINOIS		FED. AID PROJECT		

MODEL D:\a\4
FILE NAME: W9304-048 KDOT Ktk Road over UPRRCAD Sheets12-00192-04-8R_SHT_SCHEDULE OF QTYs.dgn



USER NAME = cesario	DESIGNED -	REVISED - 1 07/10/2026
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / 1 in.	CHECKED -	REVISED -
PLOT DATE = 7/14/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KIRK ROAD – CHERRY LANE TO ILLINOIS ROUTE 38
SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0360	12-00192-04-BR	KANE	518	40
CONTRACT NO. 61M13				
ILLINOIS			FED. AID PROJECT	

KIRK ROAD EARTHWORK QUANTITIES - STAGE 3					
CUT					
STATION	CUT (SF)	AVERAGE	LENGTH	TOTAL	TOTAL (CY)
122+50	0,0	0	50.00	0.00	0.00
123+00	0,0	0	50.00	0.00	0.00
123+50	0,0	0	50.00	0.00	0.00
124+00	0,0	0	50.00	0.00	0.00
124+50	0,0	0	50.00	0.00	0.00
125+00	0,0	0	50.00	0.00	0.00
125+50	0,0	0	50.00	0.00	0.00
126+00	0,0	0	50.00	0.00	0.00
126+50	0,0	14.2	50.00	710.00	26.30
127+00	28.4	28.4	50.00	1420.00	52.59
127+50	28.4	25.9	50.00	1295.00	47.96
128+00	23.4	21.5	50.00	1075.00	39.81
128+50	19.6	19.9	50.00	995.00	36.85
129+00	00+20	21.7	50.00	1085.00	40.19
129+50	23.2	22.5	50.00	1125.00	41.67
130+00	00+22	21	50.00	1050.00	38.89
130+50	20.2				
TOTAL					324,26

KIRK ROAD EARTHWORK QUANTITIES - STAGE 3					
FILL					
STATION	FILL (SF)	AVERAGE	LENGTH	TOTAL	TOTAL (CY)
122+50	0,0	0	50.00	0.00	0.00
123+00	0,0	0	50.00	0.00	0.00
123+50	0,0	0	50.00	0.00	0.00
124+00	0,0	0	50.00	0.00	0.00
124+50	0,0	0	50.00	0.00	0.00
125+00	0,0	0	50.00	0.00	0.00
125+50	0,0	0	50.00	0.00	0.00
126+00	0,0	0	50.00	0.00	0.00
126+50	0,0	0	50.00	0.00	0.00
127+00	0,0	0	50.00	0.00	0.00
127+50	0,0	0	50.00	0.00	0.00
128+00	0,0	0	50.00	0.00	0.00
128+50	0,0	0	50.00	0.00	0.00
129+00	0,0	0	50.00	0.00	0.00
129+50	0,0	0	50.00	0.00	0.00
130+00	0,0	0	50.00	0.00	0.00
130+50	0,0				
TOTAL					0,00

KIRK ROAD EARTHWORK QUANTITIES - STAGE 3					
UNSUITABLES					
STATION	UNSUIT (SF)	AVERAGE	LENGTH	TOTAL	TOTAL (CY)
122+50	0,0	0	50.00	0.00	0.00
123+00	0,0	0	50.00	0.00	0.00
123+50	0,0	0	50.00	0.00	0.00
124+00	0,0	0	50.00	0.00	0.00
124+50	0,0	0	50.00	0.00	0.00
125+00	0,0	0	50.00	0.00	0.00
125+50	0,0	0	50.00	0.00	0.00
126+00	0,0	0	50.00	0.00	0.00
126+50	0,0	0	50.00	0.00	0.00
127+00	0,0	0	50.00	0.00	0.00
127+50	0,0	0	50.00	0.00	0.00
128+00	0,0	0	50.00	0.00	0.00
128+50	0,0	0	50.00	0.00	0.00
129+00	0,0	0	50.00	0.00	0.00
129+50	0,0	0	50.00	0.00	0.00
130+00	0,0	0	50.00	0.00	0.00
130+50	0,0				
TOTAL					0,00

EARTHWORK QUANTITIES SUMMARY TABLE																		
LOCATION	EARTH EXCAVATION (CU YD)			ADJUSTED EARTH EXCAVATION (15%) (CU YD)			EMBANKMENT (CU YD)			BALANCE WASTE (+) OR SHORTAGE (-)			TOPSOIL EXCAVATION & PLACEMENT (CU YD)			TOPSOIL EXCAVATION & PLACEMENT (CU YD)		
													TOPSOIL STRIP (CU YD)			TOPSOIL RESPREAD (CU YD)	BALANCE OF TOPSOIL (CU YD)	
	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	ALL STAGES	ALL STAGES	
KIRK ROAD	2,688.50	3,739.00	324	2,285	3,178	276	73,832	70,617	0	-71,547	-67,439	276	918	595	0	4,854	-3,341	
PROJECT TOTAL	6,751.76			5,739			144,449			-138,710			1,513			4,854	-3,341	

MODEL: D:\dell\1
FILE NAME: W9394-448 KDOT Ktk Road over IPRRCAD Sheets12-20192-04-48R_SHT_DRAINAGE TABLES_2.dgn

PIPE NO.	STRUCTURE		DESCRIPTION	CLASS	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE	TBF (CY)
	FROM	TO							
P101	S101	S102	WATERMAIN REQUIREMENT	A	2	12	43	0.005	7.4
P102	S102	S109	STORM SEWERS-RCP	A	2	12	70	0.005	16.5
P104	S104	S106	STORM SEWERS-RCP	A	2	12	90	0.005	21.2
P105	S106	S110	STORM SEWERS-RCP	A	2	12	91	0.005	27.2
P106	S105	S106	STORM SEWERS-RCP	A	2	12	46	0.005	12.8
P107	S108	S201	STORM SEWERS-RCP	A	2	15	70	0.006	19.7
P108	S109	S108	STORM SEWERS-RCP	A	2	12	70	0.005	20.9
P109	S203	S110	STORM SEWERS-RCP	A	2	12	53	0.005	18.1

PIPE NO.	STRUCTURE		DESCRIPTION	CLASS	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE	TBF (CY)
	FROM	TO							
P201	S201	S202	STORM SEWERS-RCP	A	2	15	51.0	0.005	13.2
P202	S204	S202	STORM SEWERS-RCP	A	2	15	91.0	0.005	17.3
P205	S110	S205	STORM SEWERS-RCP	A	2	15	90.0	0.005	21.2
P206	S202	S210	STORM SEWERS-RCP	A	2	15	40.4	0.005	17.1
P207	S207	S208	PIPE CULVERT	A	2	24	157.0	0.003	46.2
P208	S210	S209	STORM SEWERS-RCP	A	2	36	51.0	0.004	84.5
P209	S220	S210	STORM SEWERS-RCP	A	2	24	47.0	0.005	58.9
P210	S211	S210	STORM SEWERS-RCP	A	2	24	50.0	0.005	58.6
P211	S212	S211	STORM SEWERS-RCP	A	2	24	70.0	0.005	62.0
P212	S213	S212	STORM SEWERS-RCP	A	2	24	71.0	0.005	29.3
P213	S214	S213	STORM SEWERS-RCP	A	2	18	35.0	0.005	11.6
P214	S215	S214	STORM SEWERS-RCP	A	2	18	35.0	0.005	9.8
P215	S216	S215	STORM SEWERS-RCP	A	2	15	36.0	0.005	9.3
P216	S217	S216	STORM SEWERS-RCP	A	2	15	36.0	0.005	9.3
P217	S218	S217	STORM SEWERS-RCP	A	2	15	70.0	0.005	19.7
P218	S219	S218	STORM SEWERS-RCP	A	2	12	71.0	0.005	19.7
P219	S301	S219	STORM SEWERS-RCP	A	2	12	78.0	0.005	25.0
P220	S221	S220	STORM SEWERS-RCP	A	2	24	29.0	0.005	35.1
P221	S222	S221	STORM SEWERS-RCP	A	2	24	90.0	0.005	90.8
P222	S223	S222	STORM SEWERS-RCP	A	2	24	79.0	0.005	54.0
P223	S224	S223	STORM SEWERS-RCP	A	2	24	35.0	0.005	13.4
P224	S225	S224	STORM SEWERS-RCP	A	2	18	35.0	0.005	12.5
P225	S226	S225	STORM SEWERS-RCP	A	2	18	33.0	0.005	11.8
P226	S227	S226	STORM SEWERS-RCP	A	2	18	90.0	0.005	36.7
P227	S302	S227	STORM SEWERS-RCP	A	2	15	76.0	0.005	59.2
P228	S228	S221	STORM SEWERS-RCP	A	2	12	46.0	0.005	30.5
P229	S229	S222	STORM SEWERS-RCP	A	2	12	44.0	0.005	29.2
P230	S230	S223	STORM SEWERS-RCP	A	2	12	42.0	0.005	13.4
P231	S231	S224	STORM SEWERS-RCP	A	2	12	41.0	0.005	11.4
P232	S232	S225	STORM SEWERS-RCP	A	2	12	41.0	0.005	11.4
P233	S233	S226	STORM SEWERS-RCP	A	2	12	41.0	0.005	11.4
P234	S234	S227	STORM SEWERS-RCP	A	2	12	41.0	0.005	14.0
P235	S235	S236	STORM SEWERS-RCP	A	2	24	31.0	0.006	45.0
P236	S237	S238	STORM SEWERS-RCP	A	2	24	27.0	1.850	-
P237	S238	S239	STORM SEWERS-RCP	A	2	24	29.0	1.773	6.8

REFER TO DETENTION SHEET FOR PIPES P235-P237

PIPE NO.	STRUCTURE		DESCRIPTION	CLASS	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE	TBF (CY)
	FROM	TO							
P301	S303	S302	STORM SEWERS-RCP	A	2	12	57.0	0.005	56.1
P302	S304	S302	STORM SEWERS-RCP	A	2	12	41.0	0.005	15.7
P303	S305	S303	STORM SEWERS-RCP	A	2	12	41.0	0.005	29.8
P304	S307	S321	STORM SEWERS-RCP	A	2	12	16.0	0.030	4.4
P305	S307	S306	STORM SEWERS-RCP	A	2	12	40.0	0.005	11.1
P306	S309	S306	STORM SEWERS-RCP	A	2	12	41.0	0.005	10.5
P307	S308	S307	STORM SEWERS-RCP	A	2	12	62.0	0.030	10.7
P308	S310	S306	STORM SEWERS-RCP	A	2	12	62.0	0.005	23.7
P309	S311	S310	STORM SEWERS-RCP	A	2	12	42.0	0.005	12.6
P311	S316	S312	STORM SEWERS-RCP	A	2	15	44.0	0.010	35.8
P312	S313	S312	STORM SEWERS-RCP	A	2	12	41.0	0.005	29.8
P313	S314	S313	STORM SEWERS-RCP	A	2	12	92.0	0.005	35.2
P314	S401	S314	STORM SEWERS-RCP	A	2	12	71.0	0.005	21.2
P315	S315	S312	STORM SEWERS-RCP	A	2	12	91.0	0.005	72.1
P316	S403	S315	STORM SEWERS-RCP	A	2	12	70.0	0.005	44.2
P317	S317	S315	STORM SEWERS-RCP	A	2	12	46.0	0.005	29.1
P318	S318	EX. RR. STR	STORM SEWERS-RCP	A	2	24	25.0	0.005	-
P319	D.S.1	S319	STORM SEWERS-RCP	A	2	12	12.0	0.030	-
P320	D.S.2	S320	STORM SEWERS-RCP	A	2	15	4.0	0.005	-
P321	S316	D.S.2	STORM SEWERS-RCP	A	2	15	5.0	0.005	1.6
P322	S407	S320	STORM SEWERS-RCP	A	2	24	129.0	0.005	1.3
P323	S320	S322	STORM SEWERS-RCP	A	2	24	9.0	0.005	-

PIPE NO.	STRUCTURE		DESCRIPTION	CLASS	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE	TBF (CY)
	FROM	TO							
P401	S402	S401	STORM SEWERS-RCP	A	2	12	23.0	0.005	4.5
P402	S404	S403	STORM SEWERS-RCP	A	2	12	46.0	0.005	13.8
P403	S406	S405	STORM SEWERS-RCP	A	2	12	47.0	0.005	12.1
P404	S436	S407	STORM SEWERS-RCP	A	2	24	80.0	0.005	-
P407	S410	S409	WATERMAIN REQUIREMENT	A	2	24	85.0	0.005	-
P408	S411	S410	STORM SEWERS-RCP	A	2	24	34.0	0.005	-
P409	S412	S413	STORM SEWERS-RCP	A	2	12	59.0	0.005	12.7
P410	S413	S414	STORM SEWERS-RCP	A	2	12	73.0	0.005	11.1
P411	S416	S414	STORM SEWERS-RCP	A	2	12	30.0	0.005	4.0
P412	S417	S416	STORM SEWERS-RCP	A	2	12	35.0	0.005	3.9
P413	S414	S415	STORM SEWERS-RCP	A	2	15	53.0	0.005	10.1
P414	S419	S418	STORM SEWERS-RCP	A	2	12	47.0	0.005	8.1
P415	S418	S420	STORM SEWERS-RCP	A	2	12	43.0	0.005	9.2
P416	S420	S415	STORM SEWERS-RCP	A	2	12	59.0	0.005	13.9
P417	S421	S420	STORM SEWERS-RCP	A	2	12	47.0	0.005	5.3
P418	S422	S415	STORM SEWERS-RCP	A	2	12	47.0	0.005	9.1
P419	S415	S423	STORM SEWERS-RCP	A	2	24	33.0	0.005	8.7
P420	S423	S424	STORM SEWERS-RCP	A	2	24	43.0	0.005	8.8
P421	D.S.3	S425	STORM SEWERS-RCP	A	2	24	24.0	0.005	-
P422	D.S.4	S426	STORM SEWERS-RCP	A	2	24	25.0	0.010	-
P423	S428	S427	STORM SEWERS-RCP	A	2	24	62.0	0.010	14.6
P424	S429	S428	STORM SEWERS-RCP	A	2	24	55.0	0.010	11.3
P425	S430	S429	STORM SEWERS-RCP	A	2	24	71.0	0.010	8.2
P426	S431	S430	STORM SEWERS-RCP	A	2	15	69.0	0.010	6.8
P427	S432	S428	STORM SEWERS-RCP	A	2	24	47.0	0.010	13.8
P428	S433	S432	STORM SEWERS-RCP	A	2	12	49.0	0.005	10.5
P429	S434	S432	STORM SEWERS-RCP	A	2	24	80.0	0.010	25.8
P430	S435	S434	STORM SEWERS-RCP	A	2	12	55.0	0.005	13.0
P431	S508	S434	STORM SEWERS-RCP	A	2	15	81.0	0.030	26.6
P432	S405	S403	STORM SEWERS-RCP	A	2	12	22.0	0.005	6.6
P433	S424	D.S.3	STORM SEWERS-RCP	A	2	24	4.0	0.005	0.8
P434	S427	D.S.4	STORM SEWERS-RCP	A	2	24	4.0	0.010	0.7
P435	S437	S407	STORM SEWERS-RCP	A	2	24	44.0	0.005	-

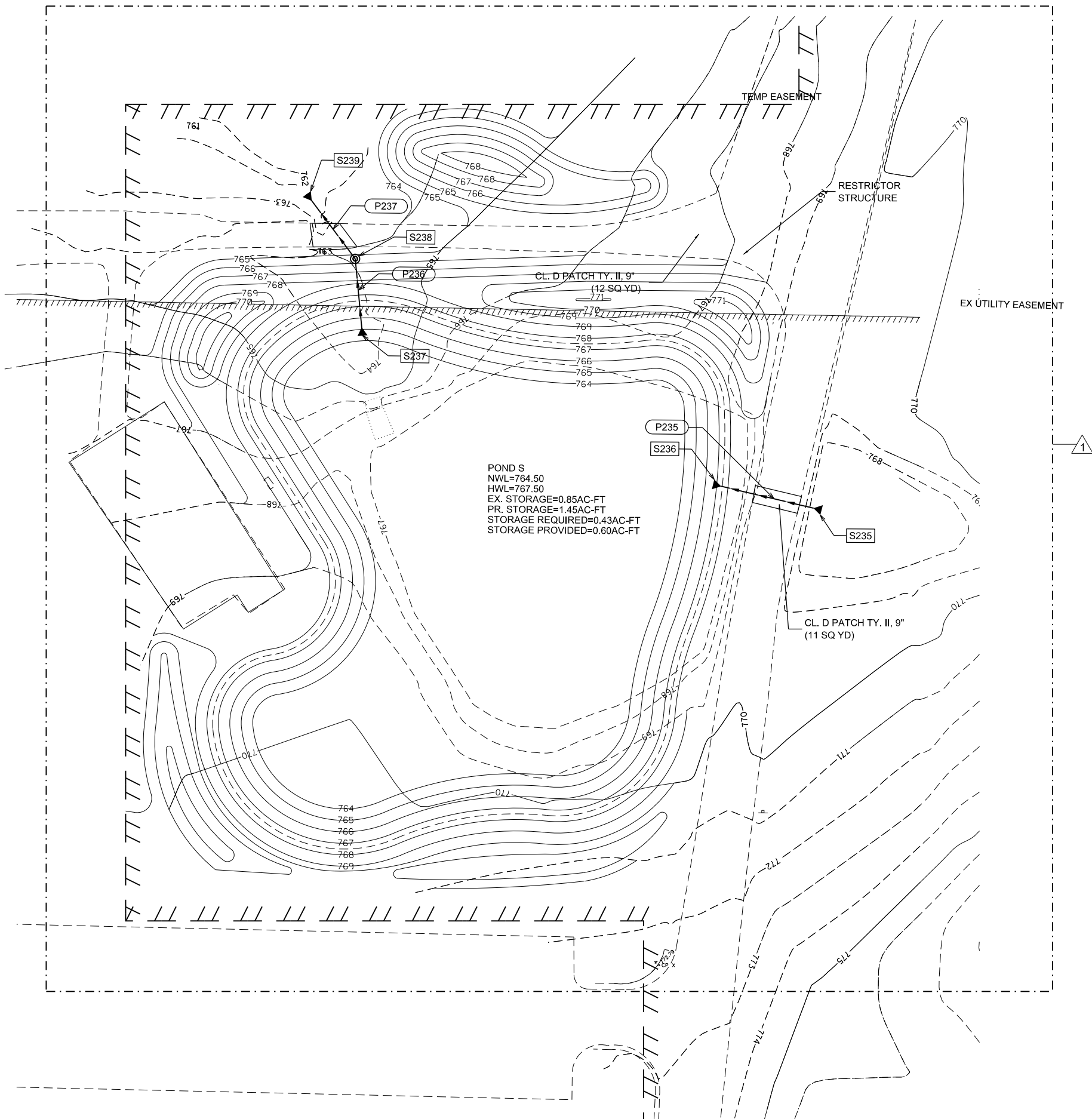
PIPE NO.	STRUCTURE		DESCRIPTION	CLASS	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE	TBF (CY)
	FROM	TO							
P501	S501	S431	STORM SEWERS-RCP	A	2	12	70.0	0.030	10.6
P502	S502	S501	STORM SEWERS-RCP	A	2	12	71.0	0.030	12.3
P503	S503	S502	STORM SEWERS-RCP	A	2	12	71.0	0.030	18.2
P504	S504	S503	STORM SEWERS-RCP	A	2	12	70.0	0.030	18.0
P505	S505	S504	STORM SEWERS-RCP	A	2	12	71.0	0.010	22.7
P506	S506	S505	STORM SEWERS-RCP	A	2	12	71.0	0.010	24.2
P507	S507	S506	STORM SEWERS-RCP	A	2	12	55.0	0.010	-
P508	S510	S508	STORM SEWERS-RCP	A	2	15	81.0	0.030	24.7
P509	S509	S508	STORM SEWERS-RCP	A	2	12	62.0	0.005	13.3
P510	S512	S510	STORM SEWERS-RCP	A	2	15	81.0	0.030	24.7
P511	S511	S510	STORM SEWERS-RCP	A	2	12	61.0	0.005	14.4
P512	S514	S512	STORM SEWERS-RCP	A	2	12	81.0	0.030	24.2
P513	S513	S512	STORM SEWERS-RCP	A	2	12	62.0	0.005	14.6
P514	S516	S514	STORM SEWERS-RCP	A	2	12	81.0	0.010	25.9
P515	S515	S514	STORM SEWERS-RCP	A	2	12	62.0	0.005	14.6
P516	S518	S516	STORM SEWERS-RCP	A	2	12	76.0	0.010	21.1
P517	S517	S516	STORM SEWERS-RCP	A	2	12	62.0	0.005	14.6
P518	S519	S518	STORM SEWERS-RCP	A	2	12	76.0	0.005	10.0

TRENCH BACK FILL - REMOVALS			
TRENCH BACKFILL [cy]		TRENCH BACKFILL [cy]	
5.5		4.2	
6.0		4.9	
2.6		17.3	
3.0		6.9	
54.5		13.2	
1.7		8.0	
4.1		6.0	
61.4		17.2	
5.8			



BLA, Inc.

USER NAME = cesario	DESIGNED -	REVISED -  07/10/2026
	DRAWN -	REVISED -
PLOT SCALE = 40,0000"=1 ft.	CHECKED -	REVISED -
PLOT DATE = 7/14/2026	DATE -	REVISED -



MODEL: D:\blm\12-00192-04-BR_SHT_DETENTION PLAN.dgn
FILE NAME: 12-00192-04-BR_SHT_DETENTION PLAN.dgn



USER NAME = cesario	DESIGNED -	REVISED - 07/24/2026
	DRAWN -	REVISED -
PLOT SCALE = 40,0000" / 1"	CHECKED -	REVISED -
PLOT DATE = 7/24/2026	DATE -	REVISED -

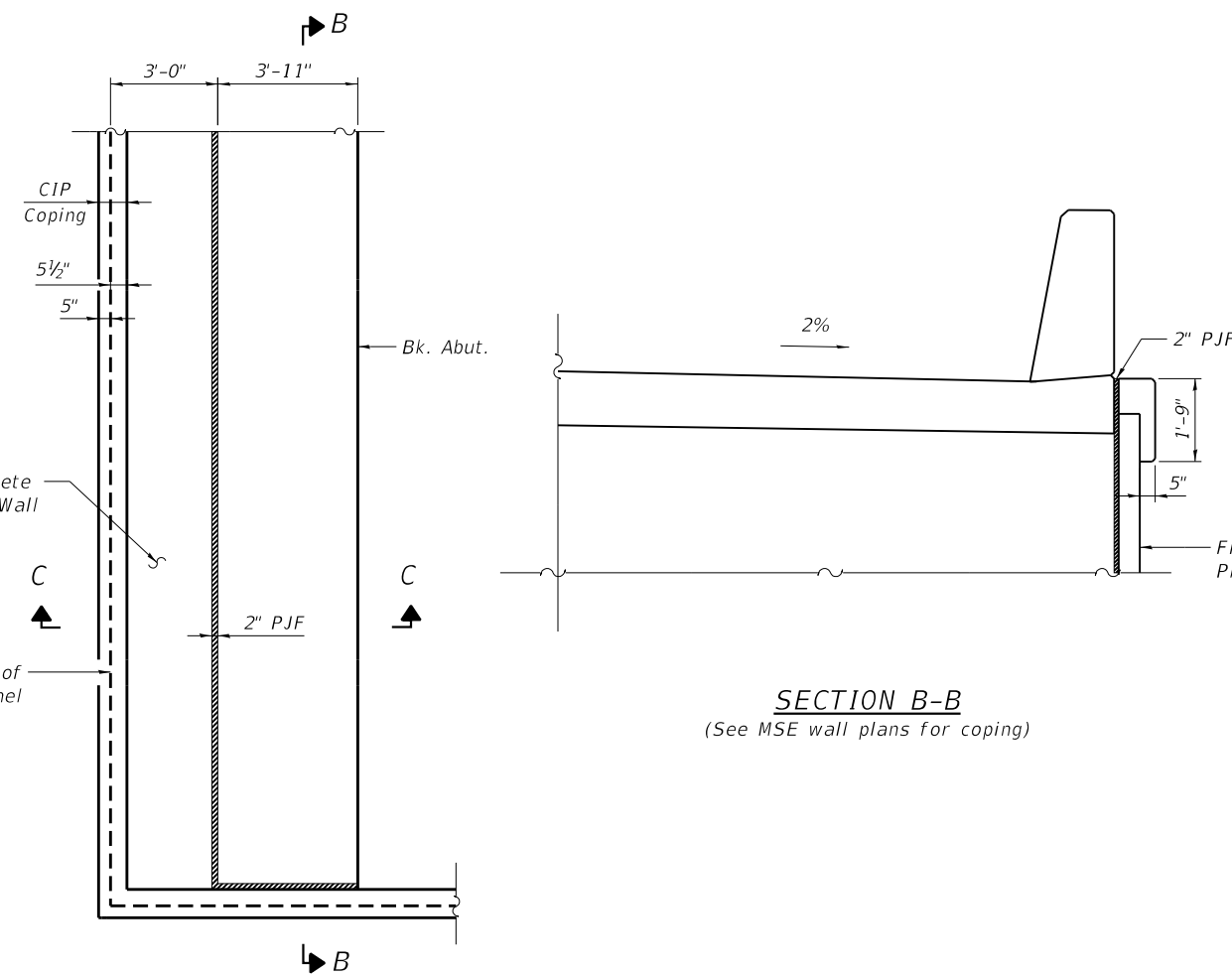
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KIRK ROAD - CHERRY LANE TO ILLINOIS ROUTE 38
DETENTION PLAN - SOUTH POND

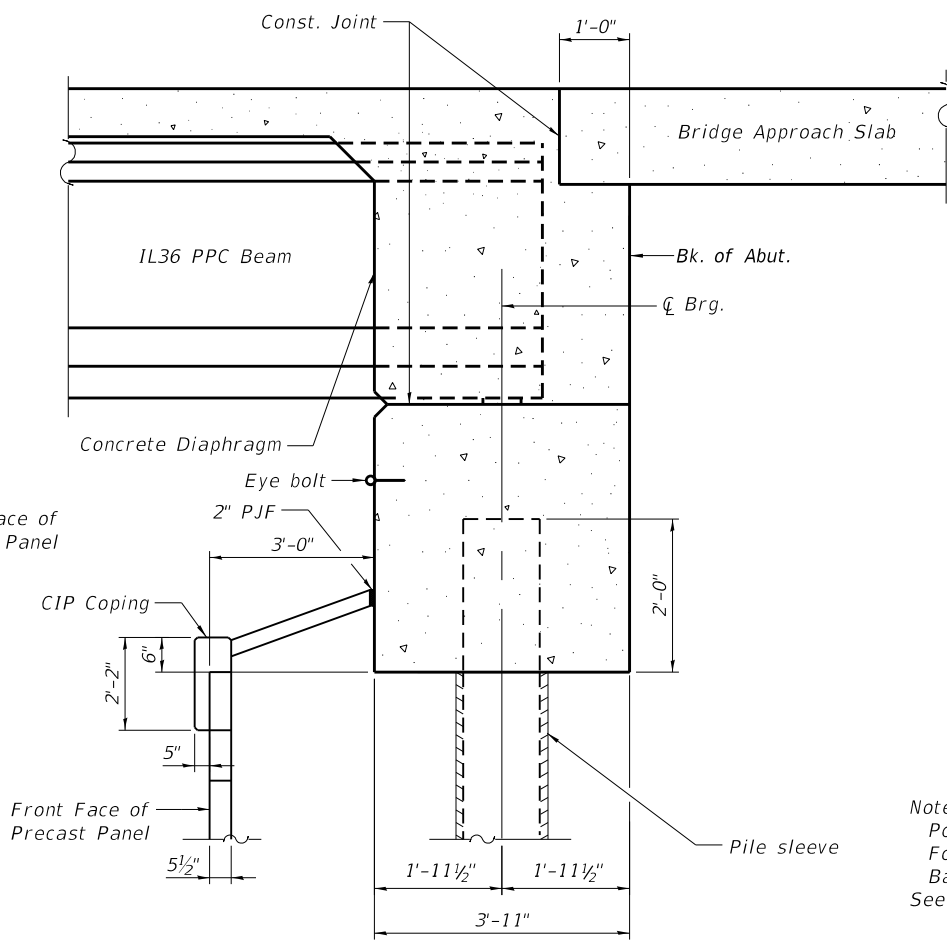
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0360	12-00192-04-BR	KANE	518	124
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

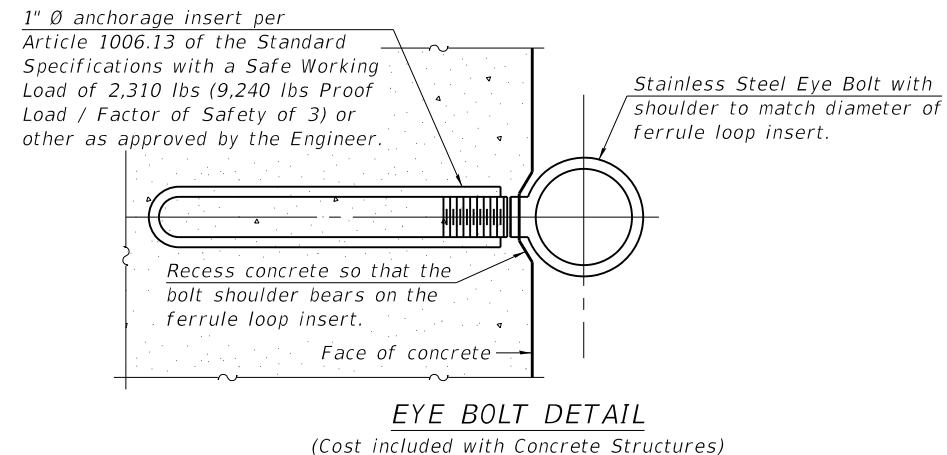
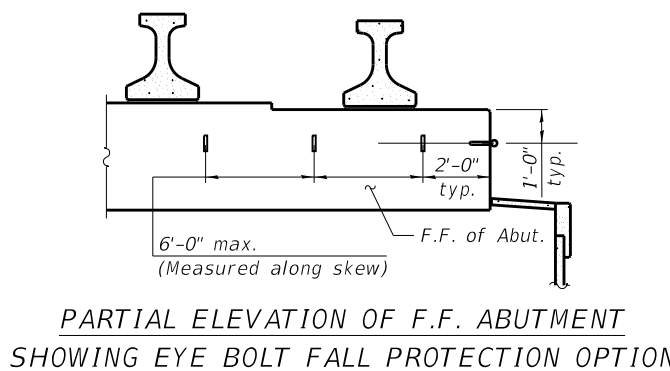
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PLAN VIEW - ABUTMENT CORNER



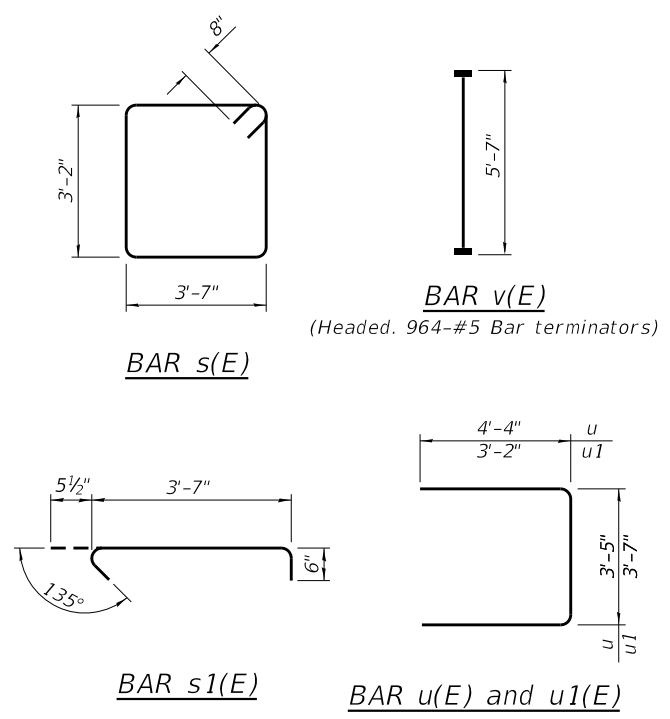
VIEW C-C



ABUTMENTS				
BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
p(E)	40	#7	29'-10"	
p1(E)	20	#7	25'-10"	
p2(E)	8	#5	23'-5"	
p3(E)	8	#5	31'-4"	
p4(E)	8	#5	7'-7"	
p5(E)	8	#5	15'-6"	
s(E)	208	#6	14'-10"	
s1(E)	52	#5	4'-7"	
sp(E)	26	#4	2'-0"	
u(E)	16	#6	12'-1"	
u1(E)	164	#5	9'-11"	
v(E)	482	#8	5'-7"	
Reinforcement Bars, Epoxy Coated		Pound	19,380	
Bar Splicers		Each	36	
Concrete Structures		Cu. Yd.	114.0	
Furnishing Steel Piles HP14x89		Foot	1,968	
Driving Piles		Foot	1,968	
Test Pile Steel, HP14x89		Each	2	
Pile Shoes		Each	26	

* Length is height of spiral.

Notes:
Pour steps monolithically with cap.
For details of piles see sheet 32 of 35.
Bar terminators, paid for separately.
See Total Bill of Material.



GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Slipforming of the parapets is not allowed.
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
A protective coat shall be applied to the top and inside faces of the raised median, parapets, separation barrier, and multi-use path.
Limits of Bridge Deck Thin Polymer Overlay $\frac{3}{8}$ " shall be from curb to curb of roadway excluding raised median on bridge deck and approach slabs.
Utilities shall be relocated by others.

RAILROAD NOTES

The proposed grade separation project shall not increase the quantity and/or characteristics of the flow in the Railroad's ditches and/or drainage structures.
The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the Railroad prior to construction.
The contractor must submit a proposed method of erosion and sediment control and have the method approved by the Railroad.
All shoring systems that impact the Railroad's operations and/or supports the Railroad's embankment shall be designed and constructed per current Railroad Guidelines for Temporary Shoring.
All demolitions within the Railroad's right-of-way and/or demolition that may impact the Railroad's tracks or operations shall be in compliance with the Railroad's Demolition Guidelines.
Erection over the Railroad's right-of-way shall be designed to cause no interruption to the Railroad's operation, enabling the track(s) to remain open to traffic per the Railroad's requirements.
Railroad requirements do not allow work within 50 feet of track centerline when a train passes the work site and all personnel must clear the area within 25 feet of the track centerline and secure all equipment.
False-work clearances shall comply with minimum construction clearances.
All permanent clearances shall be verified before project closing.
Call Before You Dig (CBYD): 1-800-336-9193

SUGGESTED SEQUENCE OF CONSTRUCTION

- Contractor to coordinate any required improvements to or removals of existing utilities with utility owner(s).
- Complete the Removal and Disposal of Unsuitable Materials and replace with Aggregate Subgrade Improvement.
- Install Piles.
- Construct MSE walls.
- Construct abutments
- Place the Precast Prestressed Concrete Beams on the abutments.
- Construct the bridge deck, parapets, and railings.

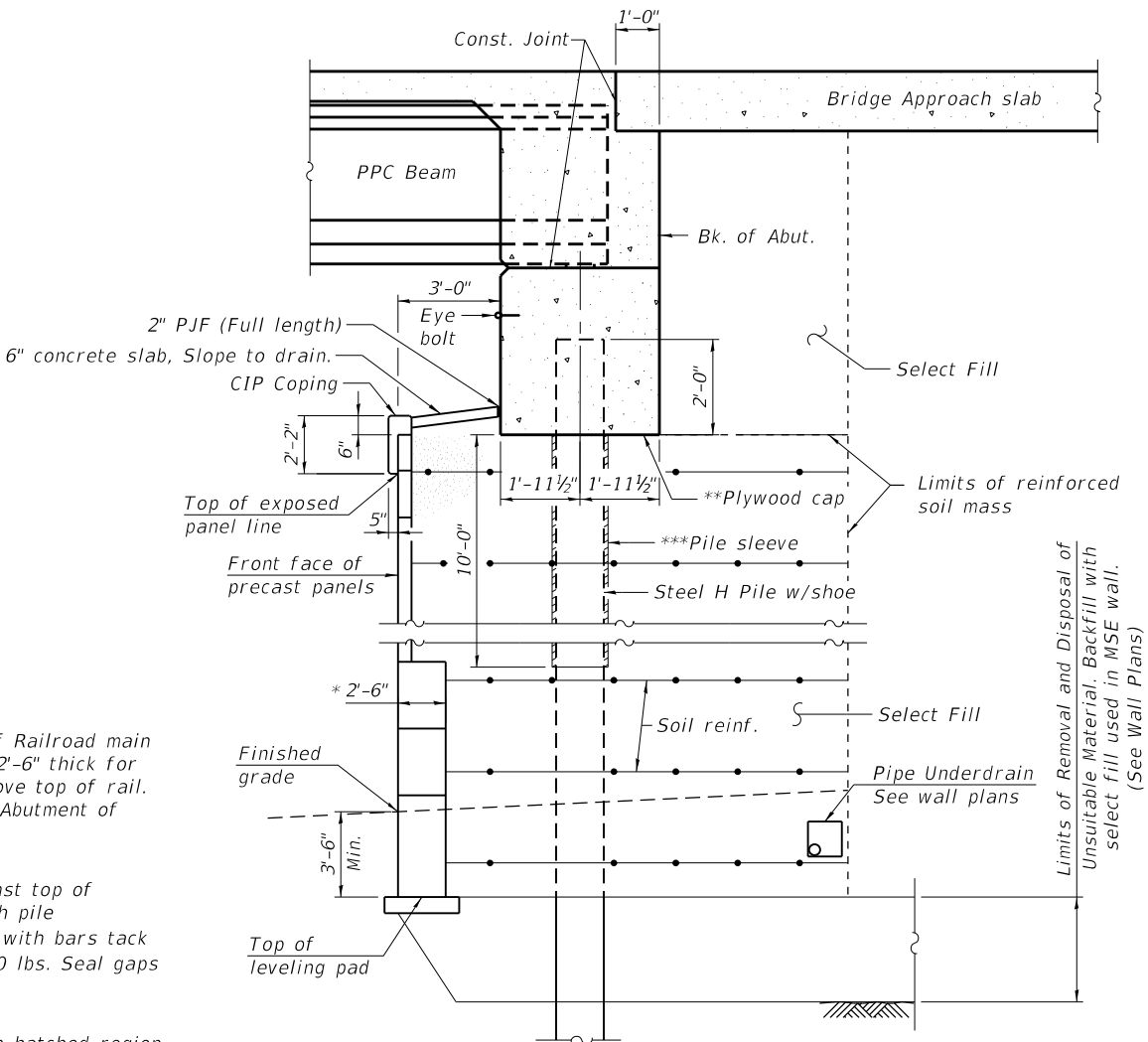
INDEX OF SHEETS

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- Stage Construction Details II
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- South Diaphragm Details
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- Superstructure Details
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- Approach Slab Parapet Elevations
- Approach Slab Details
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- Bicycle Railing, Special
- Drainage Scupper, DS-11
- Closed Drainage System I
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- Framing Plan
- IL54-3838 Beam
- IL54-3838 Beam Details
- IL54-2438 Beam
- IL54-2438 Beam Details
- South Abutment
- North Abutment
- Abutment Details
- Bar Splicer Assembly Details
- HP Pile Details
- Boring Logs I
- Boring Logs II
- Boring Logs III
- Boring Logs IV
- Boring Logs V

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd	---	2	2
Filter Fabric	Sq Yd	---	2	2
Protective Shield	Sq Yd	844	---	844
Concrete Structures	Cu Yd	---	177.9	177.9
Concrete Superstructure	Cu Yd	547.7	---	547.7
Protective Coat	Sq Yd	711	---	711
Concrete Superstructure (Approach Slab)	Cu Yd	285.9	---	285.9
Furnishing And Erecting Precast Prestressed Concrete Beams, IL54	Foot	1,462	---	1,462
Furnishing And Erecting Precast Prestressed Concrete Beams, IL54N	Foot	122	---	122
Reinforcement Bars, Epoxy Coated	Pound	222,550	34,030	256,580
Bar Splicers	Each	1,066	108	1,174
Bridge Fence Railing, Curved	Foot	123	---	123
Furnishing Steel Piles HP14x117	Foot	---	2,220	2,220
Driving Piles	Foot	---	2,220	2,220
Test Pile Steel HP14x117	Each	---	2	2
Pile Shoes	Each	---	26	26
Name Plates	Each	1	---	1
Drainage System For Structures	L Sum	0.25	---	0.25
Bar Terminators	Each	207	974	1,181
Bicycle Railing, Special	Foot	60	---	60
Bridge Deck Thin Polymer Overlay $\frac{3}{8}$ "	Sq Yd	1,638	---	1,638
Drainage Scuppers, DS-11	Each	5	---	5

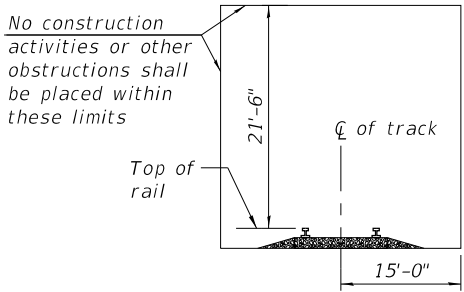
See SN 045-3186 for Removal of Existing Structures.



SECTION THRU INTEGRAL ABUTMENT
(Looking West)

U. P. R. R.
BUILT 20-- BY
KANE COUNTY
F.A.P. RT. 360 SEC. 12-00192-04-BR
STA. 117+89.41 LOADING HL-93
STR. NO. 045-3134

NAME PLATE
See Std. 515001



MINIMUM CONSTRUCTION
CLEARANCE ENVELOPE
(Normal to railroad)

*MSE Panels within 50'-0" of Railroad main track lines 1, 2 & 3 shall be 2'-6" thick for a height of at least 12'-0" above top of rail. Applies only to Wall at South Abutment of S.N. 045-3134.

**Bottom of cap poured against top of plywood. Cut opening to match pile perimeter within $\frac{1}{8}$ ". Support with bars tack welded to webs rated for 500 lbs. Seal gaps to keep concrete out.

***Sleeve to remain empty in hatched region. Cost of pile sleeve is included with Mechanically Stabilized Earth Retaining Wall. See MSE Wall plans.

MODEL: Sheet
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	CHECKED - PRD	REVISED -
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PLOT DATE =	CHECKED - PRD	REVISED -

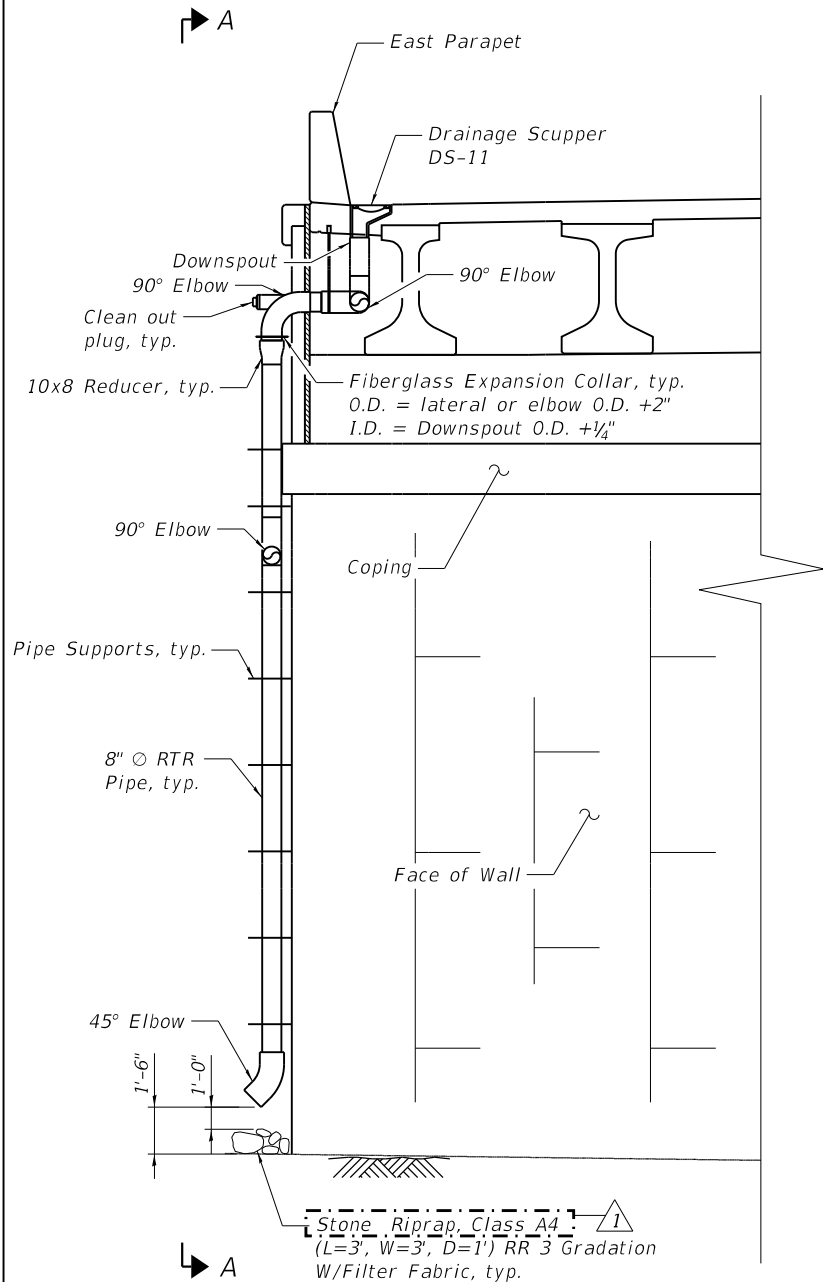
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 045-3134

SHEET 2 OF 45 SHEETS

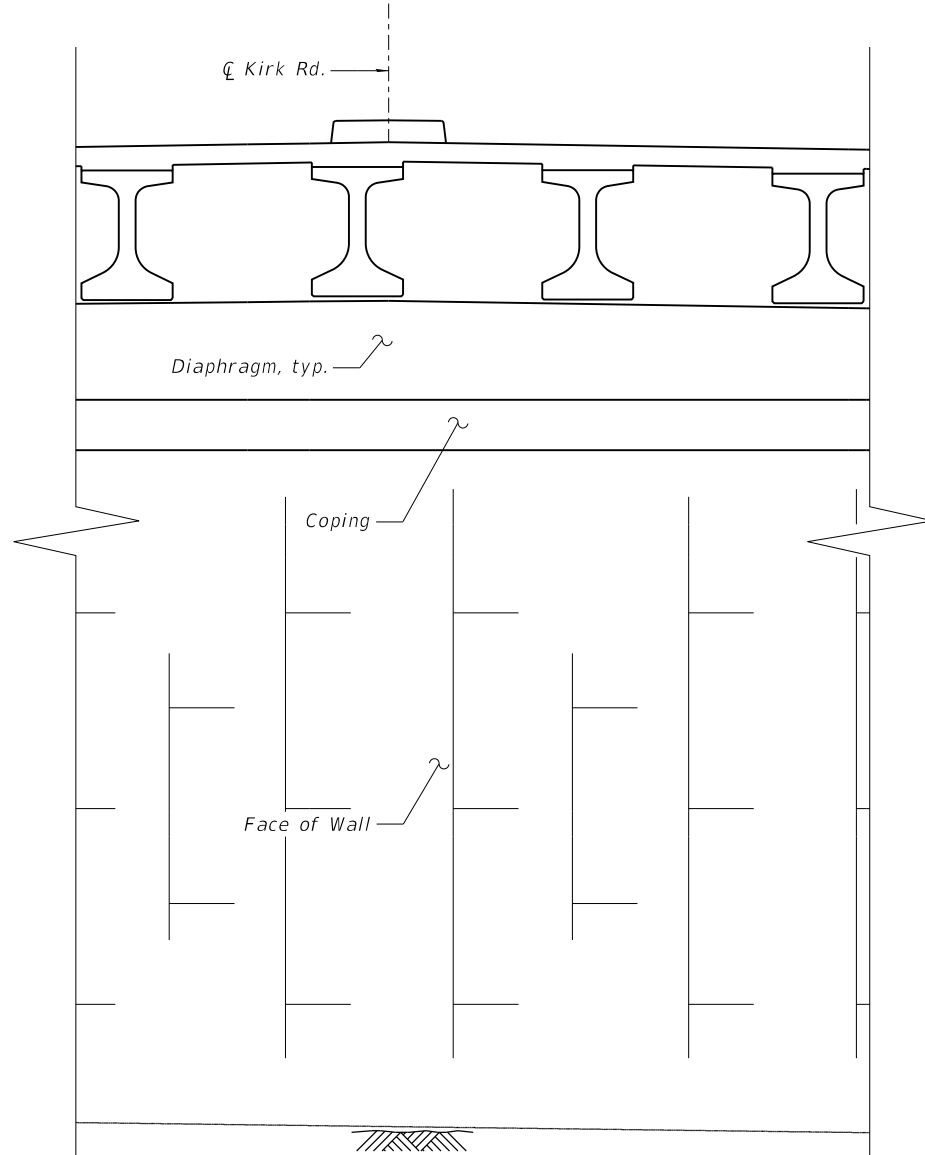
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	261
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

MODEL: Drainage System Main
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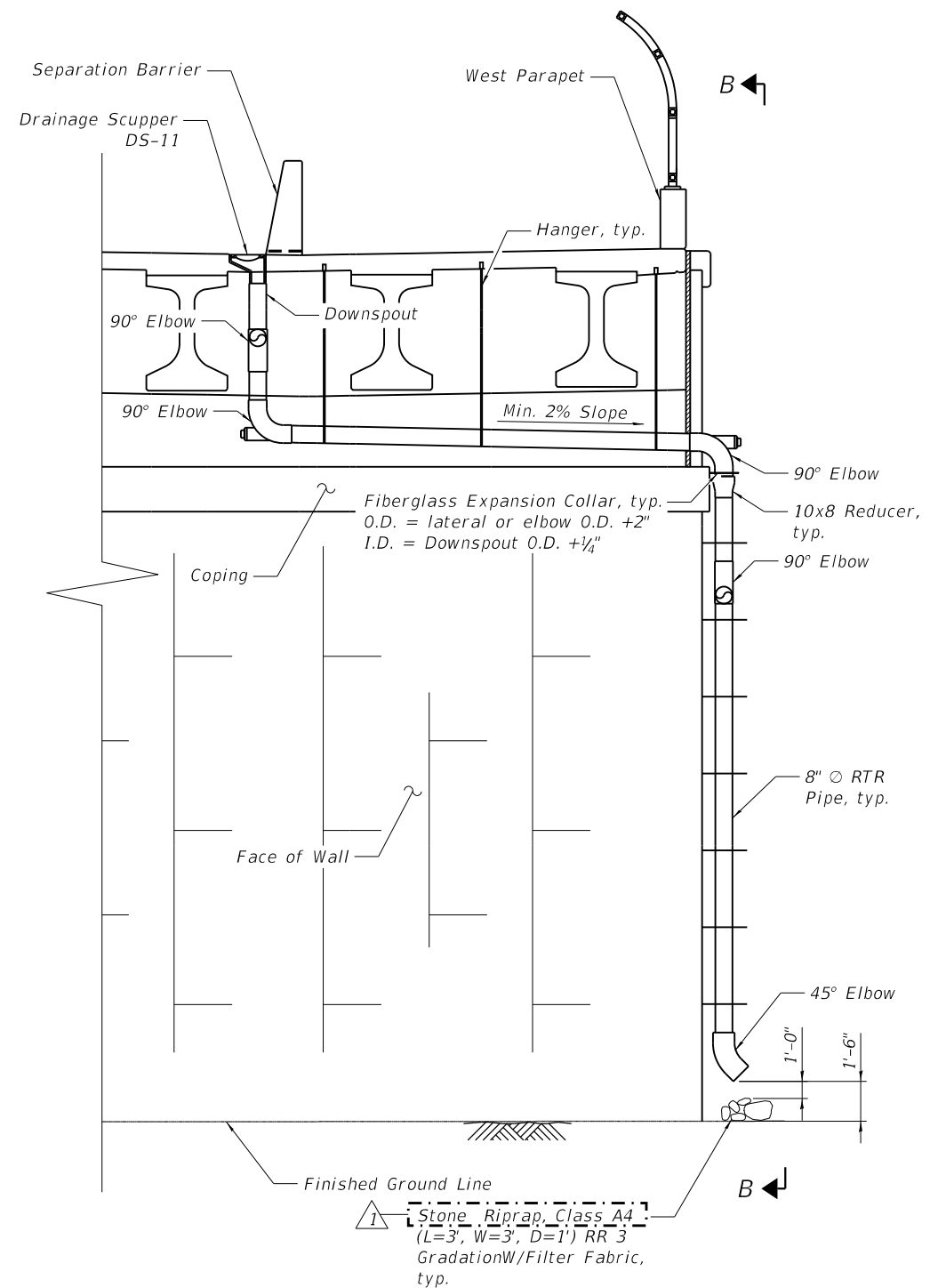
NOTES:

- Contractor shall furnish and install a bridge drainage system as shown and noted on the plans and in accordance with Section 523 of the Standard Specifications. Work includes all piping, fittings, support brackets, hangers, inserts and bolts.
- The Contractor shall submit shop drawings showing details of the drainage system to the Engineer for approval before any fabrication is begun. Cost included in Drainage System For Structures.
- Downspouts shall extend a minimum of 1" into fittings.
- Scuppers and Drainage System shall be located clear of all cross frames. The costs of custom fittings required or the collector pipes to clear cross frames are included in Drainage System For Structures.
- See sheet 30 of 45 for Sections A-A and B-B.



ELEVATION AT SOUTH ABUTMENT
(Looking South)

- Contractor shall design all pipe supports. Runs of pipe shall be supported at spacings not exceeding those recommended by the manufacturer of the pipe. Supports that have point contact or narrow supporting areas shall be avoided. Standard slings, clamps, clevis hangers and shoe supports designed for use with steel pipe may be used. Minimum strap width for hangers and brackets shall be 1½ inches. Straps shall have 120 degrees of contact with the pipe. Pipes supported on less than 120 degrees of contact shall have a split fiberglass pipe protective sleeve bonded in place with adhesive.
- All pipe supports and associated hardware shall be hot dip galvanized according to AASHTO M 232 or AASHTO M 111.
- All reinforced fiberglass pipe, and fittings shall be handled and installed according to guidelines and procedures recommended by the manufacturer or supplier of the material. Color of pipe and fittings shall be light grey to match concrete beams.



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage System For Structures	L Sum	0.25



USER NAME =	DESIGNED - ES	REVISED - 7/24/2026 KN
	CHECKED - PRD	REVISED -
PLOT SCALE =	DRAWN - ES	REVISED -
PLOT DATE =	CHECKED - PRD	REVISED -

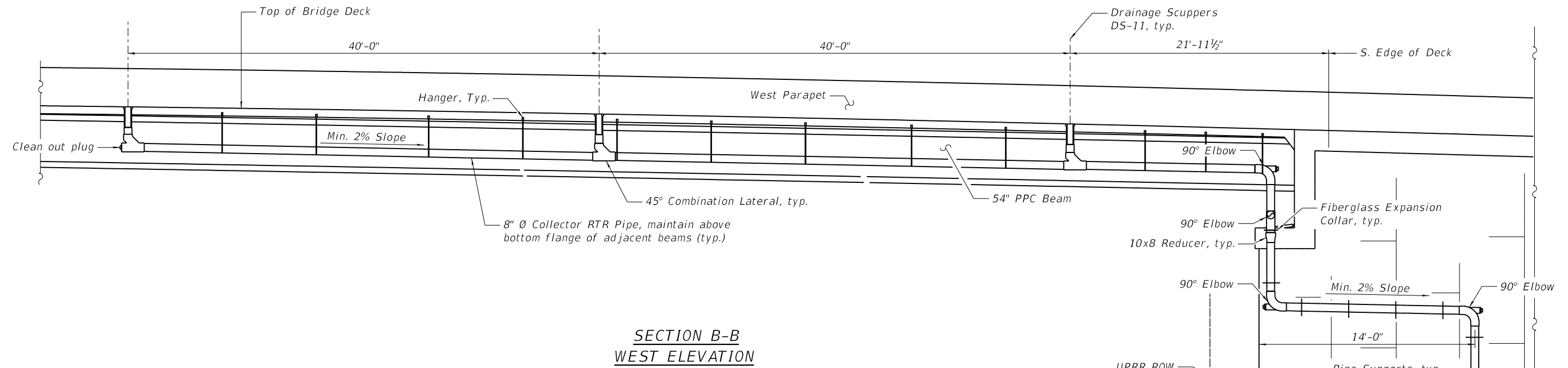
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLOSED DRAINAGE SYSTEM I
STRUCTURE NO. 045-3134

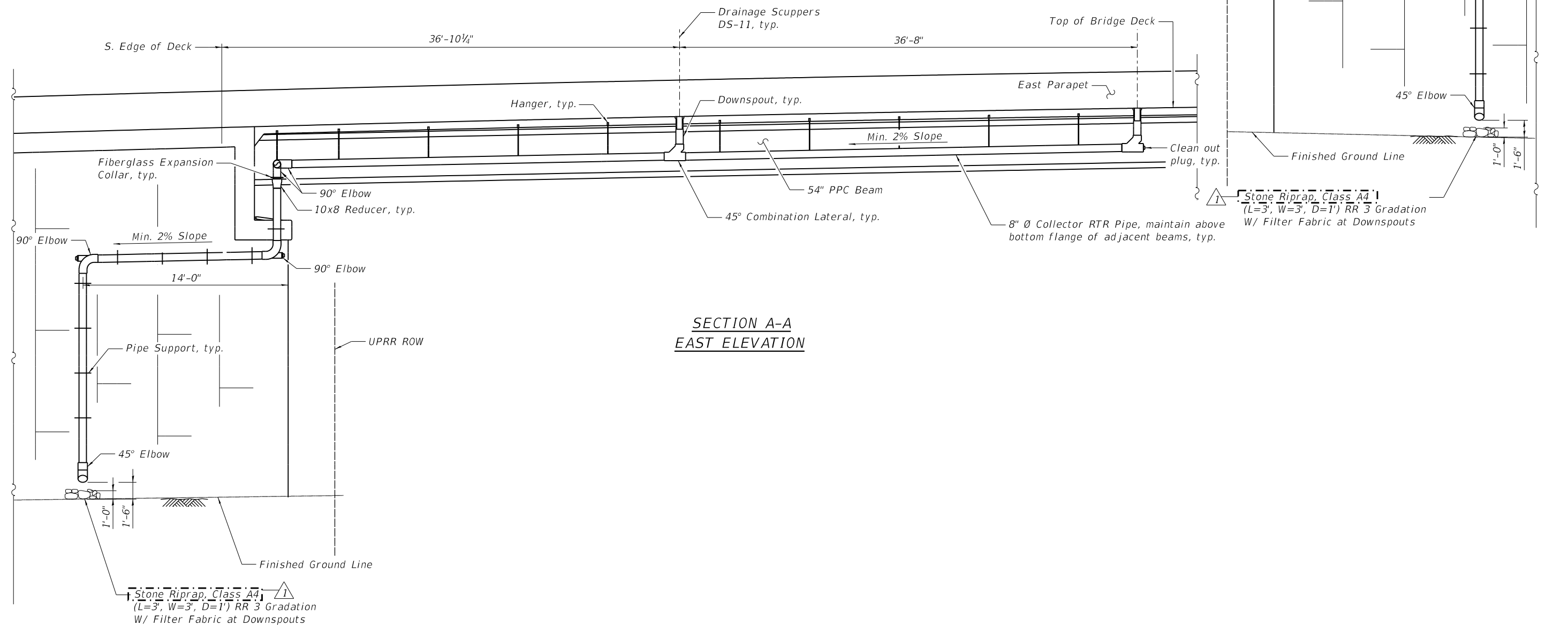
SHEET 29 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	288
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

MODEL: Drainage System Main
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**SECTION B-B
WEST ELEVATION**



**SECTION A-A
EAST ELEVATION**



USER NAME =	DESIGNED - ES	REVISED - 7/24/2026 KN
PLOT SCALE =	CHECKED - PRD	REVISED -
PLOT DATE =	DRAWN - ES	REVISED -
	CHECKED - PRD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CLOSED DRAINAGE SYSTEM II
STRUCTURE NO. 045-3134**

SHEET 30 OF 45 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	289
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Slipforming of the parapets is not allowed.
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
A protective coat shall be applied to the top and inside faces of the raised median, parapets, separation barrier, and multi-use path.
Limits of Bridge Deck Thin Polymer Overlay $\frac{3}{8}$ " shall be from curb to curb of roadway excluding raised median on bridge deck and approach slabs.
Utilities shall be relocated by others.

SUGGESTED SEQUENCE OF CONSTRUCTION

- Contractor to coordinate any required improvements to or removals of existing utilities with utility owner(s).
- Complete the Removal and Disposal of Unsuitable Materials and replace with Aggregate Subgrade Improvement.
- Install Piles.
- Construct MSE walls.
- Construct abutments.
- Place the Precast Prestressed Concrete Beams on the abutments.
- Construct the bridge deck, parapets, and railings.

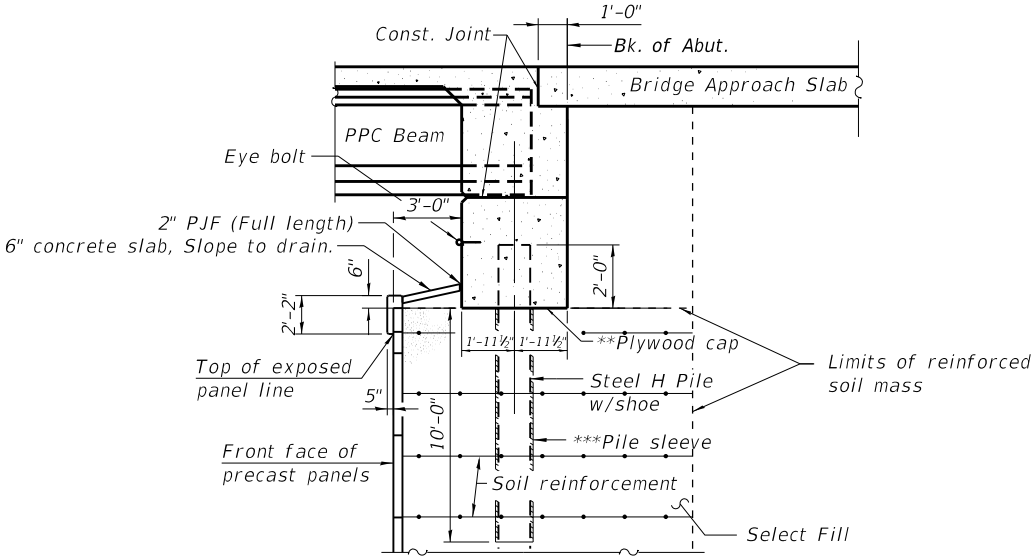
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- HP Pile Details
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- Boring Logs II
- Boring Logs III
- Boring Logs IV
- Boring Logs V

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd	---	1	1
Filter Fabric	Sq Yd	---	1	1
Protective Shield	Sq Yd	545	---	545
Concrete Structures	Cu Yd	---	201.7	201.7
Concrete Superstructure	Cu Yd	400.9	---	400.9
Protective Coat	Sq Yd	603	---	603
Concrete Superstructure (Approach Slab)	Cu Yd	311.7	---	311.7
Furnishing And Erecting Precast Prestressed Concrete Beams, IL36N	Foot	935	---	935
Reinforcement Bars, Epoxy Coated	Pound	206,360	36,600	242,960
Bar Splicers	Each	886	116	1,002
Furnishing Steel Piles HP14x89	Foot	---	2,024	2,024
Driving Piles	Foot	---	2,024	2,024
Test Pile Steel HP14x89	Each	---	2	2
Pile Shoes	Each	---	24	24
Name Plates	Each	1	---	1
Drainage System For Structures	L Sum	0.25	---	0.25
Bar Terminators	Each	224	1,062	1,286
Bicycle Railing, Special	Foot	139	---	139
Bridge Deck Thin Polymer Overlay 3/8"	Sq Yd	1,305	---	1,305
Drainage Scuppers, DS-11	Each	2	---	2

See SN 045-3186 for Removal of Existing Structures.



SECTION THRU INTEGRAL ABUTMENT

(Looking West, Horiz. dim. @ Rt. L's)

**Bottom of cap poured against top of plywood. Cut opening to match pile perimeter within $\frac{1}{8}$ ". Support with bars tack welded to webs rated for 500 lbs. Seal gaps to keep concrete out.

***Sleeve to remain empty in hatched region. Cost of pile sleeve is included with Mechanically Stabilized Earth Retaining Wall. See MSE Wall plans.

STA. 121+54.63
BUILT 20-- BY
KANE COUNTY
F.A.P. RT. 360 SEC. 12-00192-04-BR
LOADING HL-93
STR. NO. 045-3133

NAME PLATE

See Std. 515001

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

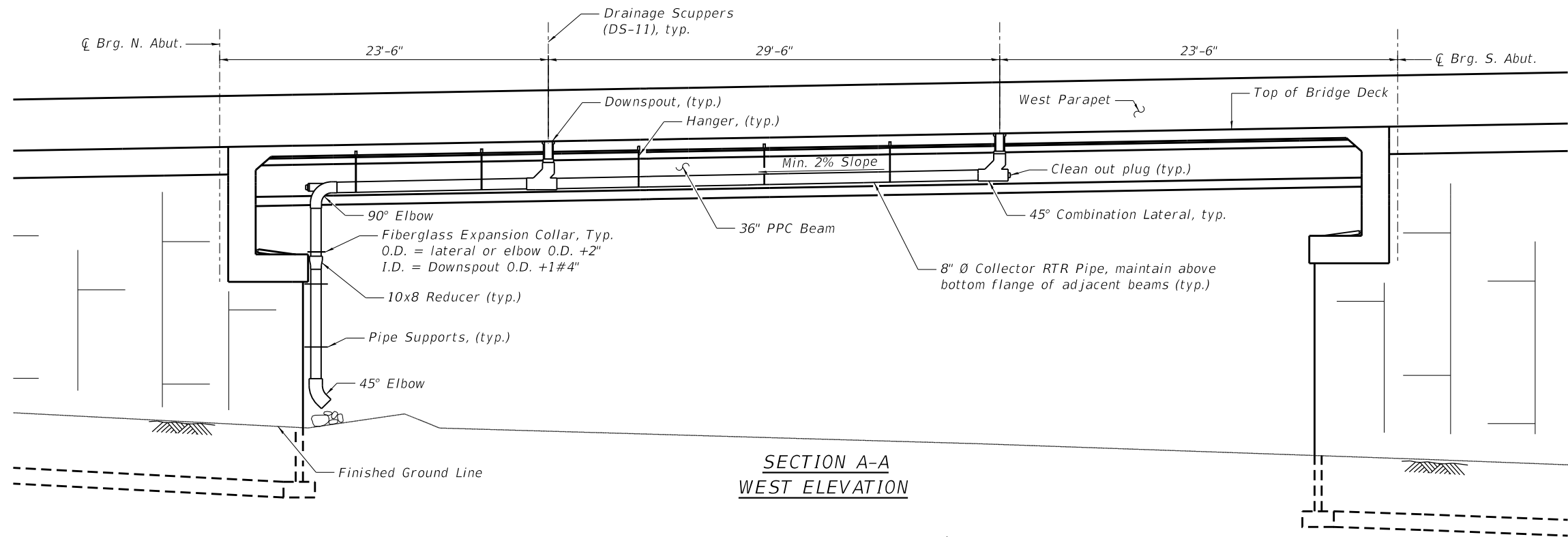
GENERAL DATA
STRUCTURE NO. 045-3133

SHEET 2 OF 39 SHEETS

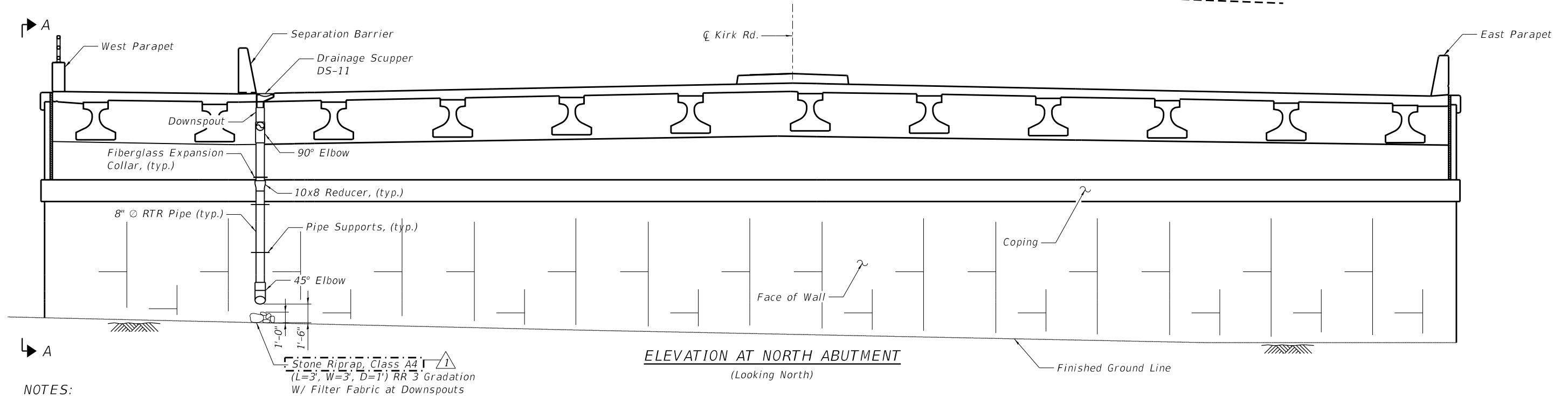
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	306
CONTRACT NO. 61M13				
ILLINOIS		FED. AID PROJECT		



USER NAME =	DESIGNED - KN	REVISED - 7/24/2026 KN
	CHECKED - MJW	REVISED -
PLOT SCALE =	DRAWN - KN	REVISED -
PLOT DATE =	CHECKED - MJW	REVISED -



SECTION A-A
WEST ELEVATION



ELEVATION AT NORTH ABUTMENT
(Looking North)

NOTES:

Contractor shall furnish and install a bridge drainage system as shown and noted on the plans and in accordance with Section 523 of the Standard Specifications. Work includes all piping, fittings, support brackets, hangers, inserts and bolts.

The Contractor shall submit shop drawings showing details of the drainage system to the Engineer for approval before any fabrication is begun. Cost included in Drainage System For Structures.

Downspouts shall extend a minimum of 1" into fittings.

Scuppers and Drainage System shall be located clear of all cross frames. The costs of custom fittings required or the collector pipes to clear cross frames are included in the Drainage System item.

Contractor shall design all pipe supports. Runs of pipe shall be supported at spacings not exceeding those recommended by the manufacturer of the pipe. Supports that have point contact or narrow supporting areas shall be avoided. Standard slings, clamps, clevis hangers and shoe supports designed for use with steel pipe may be used. Minimum strap width for hangers and brackets shall be 1 1/2 inches. Straps shall have 120 degrees of contact with the pipe. Pipes supported on less than 120 degrees of contact shall have a split fiberglass pipe protective sleeve bonded in place with adhesive.

All pipe supports and associated hardware shall be hot dip galvanized according to AASHTO M 232 or AASHTO M 111.

All reinforced fiberglass pipe, and fittings shall be handled and installed according to guidelines and procedures recommended by the manufacturer or supplier of the material. Color of pipe and fittings shall be light grey to match concrete beams.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage System For Structures	L Sum	0.25



USER NAME =	DESIGNED - KN	REVISED - 7/24/2026 KN
	CHECKED - MJW	REVISED -
PLOT SCALE =	DRAWN - KN	REVISED -
PLOT DATE =	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLOSED DRAINAGE SYSTEM
STRUCTURE NO. 045-3133

SHEET 26 OF 39 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	330
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

Bench Mark: Chiseled square in top of parapet wall located at the southwest corner of existing bridge, S.N. 045-3096 at Sta. 111+08.40 Offset 30.19' LT. Elev. 782.00.

Existing Structure: S.N. 045-3096 originally constructed in 1974 as FAS Route 1100, Section 192-3VB (Kirk Road). It was repaired in 1977, 1987, 1990, 1998, 2003, 2013, and 2021. It underwent a rehabilitation in 2001. The existing superstructure is 18 span continuous, separated into 4 units, with 7½" deck and non-composite wide flange beams. Back to back of abutments is 1,376'-2" and Out-to-Out width is 62'-0". Existing substructure contains two concrete reinforced spill through abutments on piles and 17 piers; with piers 1 to 8 and 17 on spread footings, and piers 9 to 16 on piles. Traffic to be maintained using stage construction.

Salvage: No Salvage.

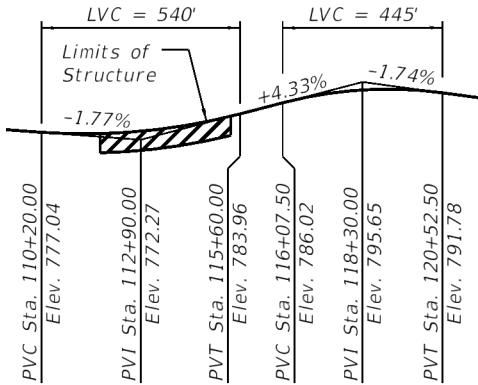
* Contractor to verify depth. (See roadway plans)

Removal and Disposal of Unsuitable Material for Structures. See sheet 6 of 20 for limits.

*Ex. Underground Watermain to be abandoned, West Wall only (See Drainage and Utilities Plan)

ELEVATION

(Looking West at Front Face of East Wall, West Wall similar)



PROFILE GRADE
(along N.B. & S.B. PGL)

DESIGN SPECIFICATIONS

2024 AASHTO LRFD Bridge Design Specifications, 10th Edition

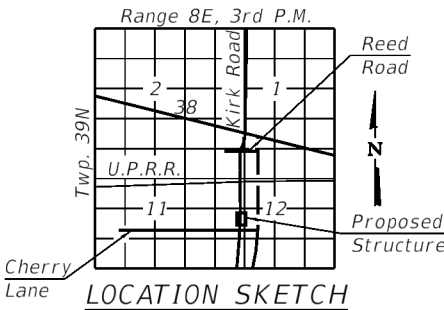
LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Moment Slab & Parapets)
f'c = 3,500 psi (All Other Retaining Wall Concrete)
fy = 60,000 psi (Reinforcement)
PRECAST UNITS
f'c = 4,500 psi (Precast Panels)



GENERAL PLAN AND ELEVATION

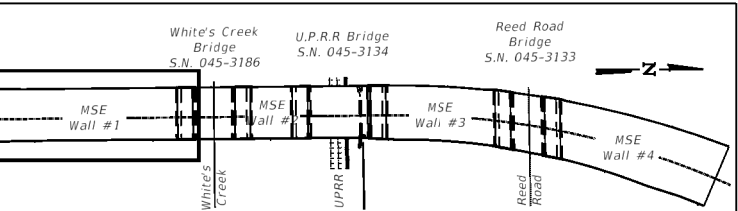
KIRK ROAD

F.A.P. RTE. 360 SEC. 12-00192-04-BR

KANE COUNTY

STA. 111+19.37 to STA. 115+10.00

MSE WALL 01



Note:
Wall Station and offsets are measured from the $\mathcal{Q}$ of F.A.P. Rte. 360 to the front face of precast panels.

LEGEND

- Soil Boring
- Approximate Limits of Reinforced Soil Mass
- Approximate Limits of Reinforced Soil Mass for Temporary Wall
- Approximate Limits of Removal and Disposal of Unsuitable Material for Structures

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
MSE WALL 01

SHEET 1 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	344
CONTRACT NO. 61M13				

ILLINOIS FED. AID PROJECT

BLA, Inc.

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GENERAL NOTES:

Reinforcement bars designated (E) shall be epoxy coated.
Slipforming of the parapets is not allowed.
A protective coat shall be applied to the top and inside faces of the parapets, separation barrier, multi-use path, and shoulders.
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions in the field.
Wall Stations and Offsets are given to the Front Face (FF) of the wall and are measured from centerline of Kirk Road.
Wall is built in conjunction with new bridge S.N 045-3186 and S.N 045-3134.
Piles are installed prior to the construction of wall.
Horizontal dimensions measured along front face of precast panels.
Utilities shall be relocated by others.

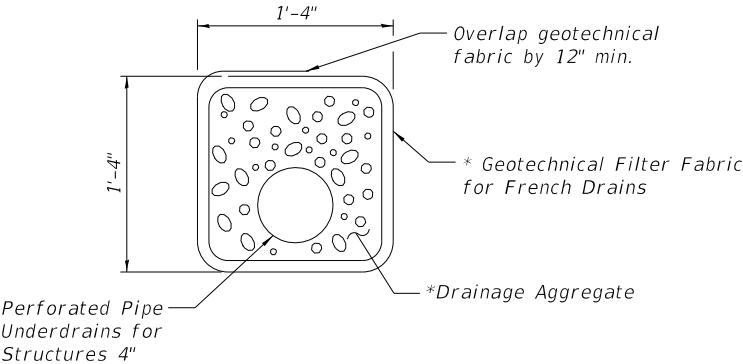
INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. General Data
- 3. Typical Details
- 4. Stage I & II Construction
- 5. Wall Plan & Elevations
- 6. Temporary Wall Elevation
- 7. Typical Sections
- 8. Moment Slab Plan and Elevation I
- 9. Moment Slab Plan and Elevation II
- 10. Moment Slab Plan and Elevation III
- 11. Moment Slab Plan and Elevation IV
- 12. Moment Slab Plan and Elevation V
- 13. Moment Slab Sections and Details
- 14. Moment Slab and Light Pole Details
- 15. Drainage Details
- 16. Railing Details
- 17. Boring Logs I
- 18. Boring Logs II
- 19. Boring Logs III
- 20. Boring Logs IV

TOTAL BILL OF MATERIAL

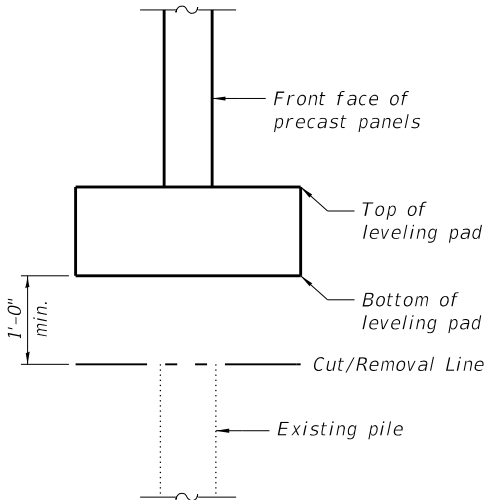
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Aggregate Subgrade Improvement	Cu Yd	4,236
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	4,236
Concrete Structures	Cu Yd	513.8
Form Liner Textured Surface	Sq Ft	11,325
Protective Coat	Sq Yd	1,308
Reinforcement Bars, Epoxy Coated	Pound	72,910
Mechanically Stabilized Earth Retaining Wall	Sq Ft	13,415
Temporary Mechanically Stabilized Earth Retaining Wall	Sq Ft	6,116
Pipe Underdrains For Structures 4"	Foot	886
Staining Concrete Structures	Sq Ft	11,325
Bicycle Railing, Special	Foot	351

See SN 045-3186 for Removal of Existing Structures.

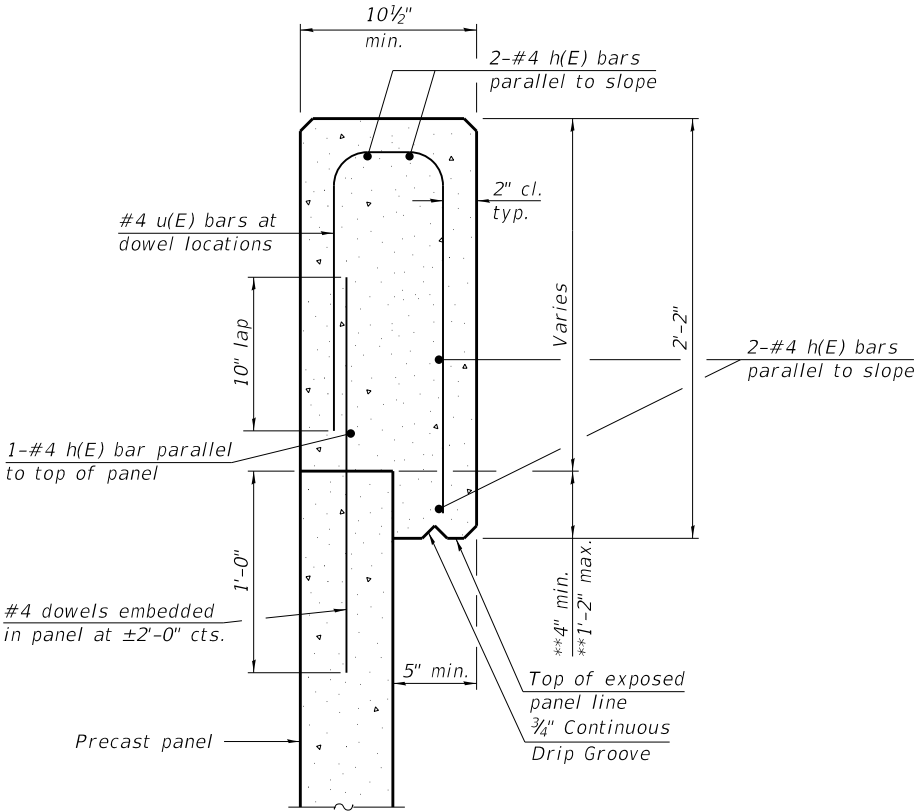


PIPE UNDERDRAIN DETAIL

* Included in cost for Pipe Underdrains for Structures 4"

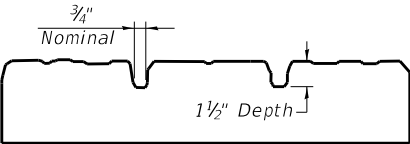
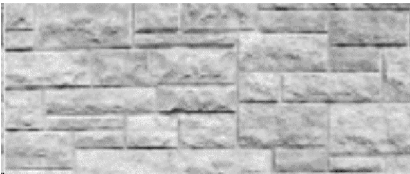


SECTION THRU REMOVAL OF STRUCTURE

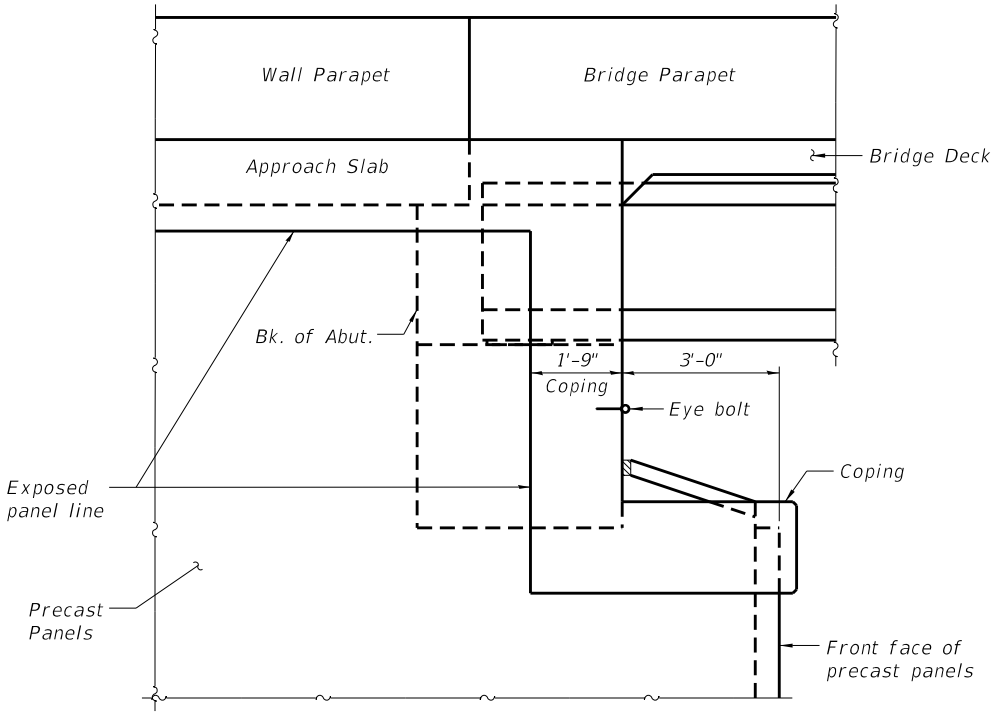


TYPICAL SECTION THRU COPING

** Limits of Bond breaker membrane between front of panel and overhang.



FORM LINER TEXTURED DETAIL



ABUTMENT END VIEW

MODEL: Main
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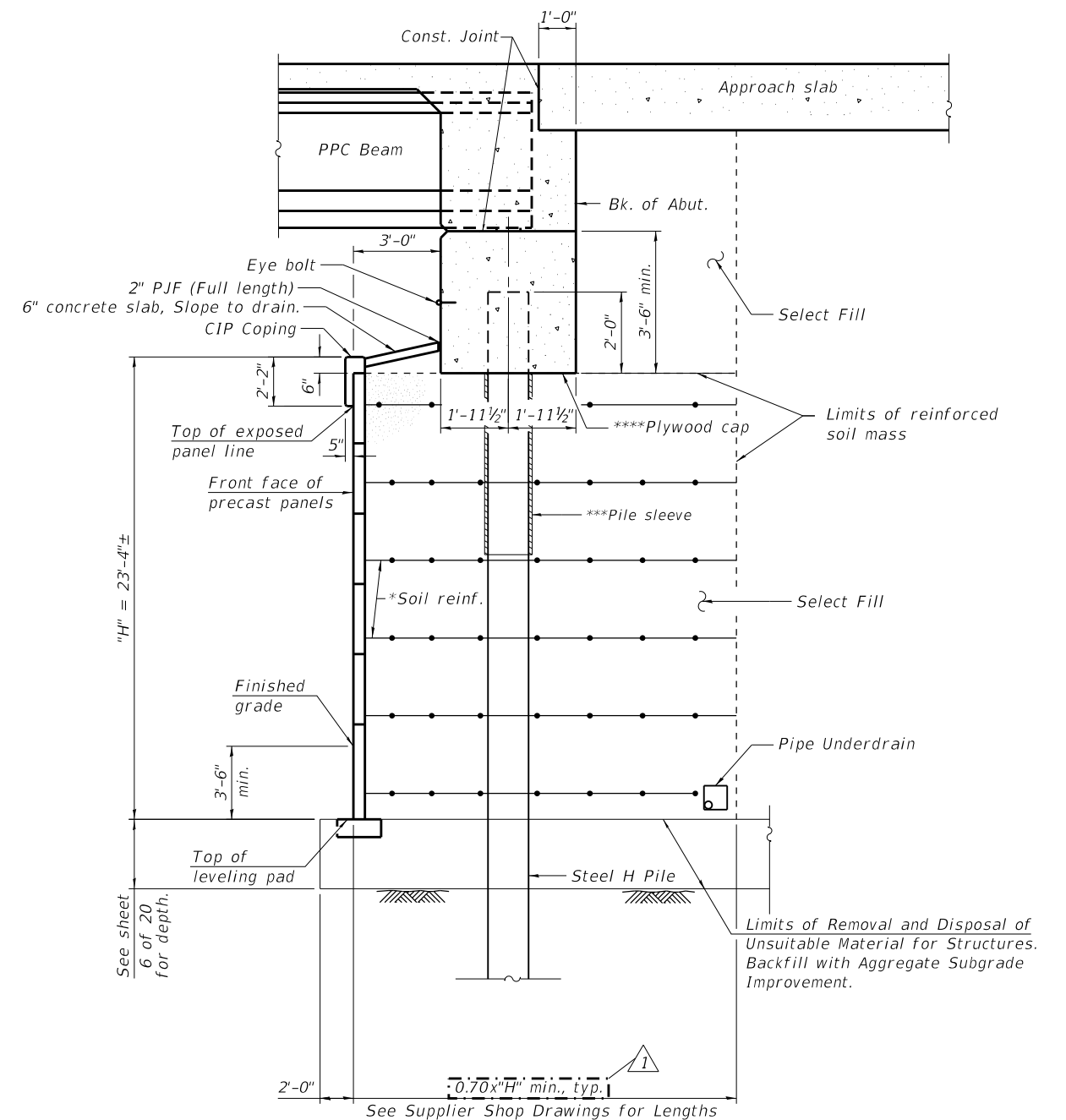
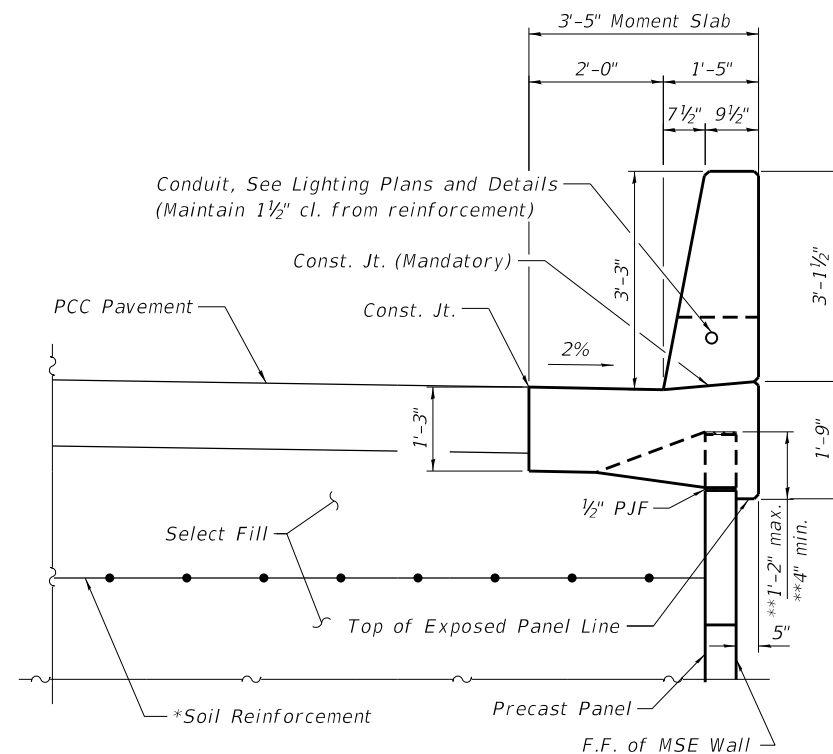
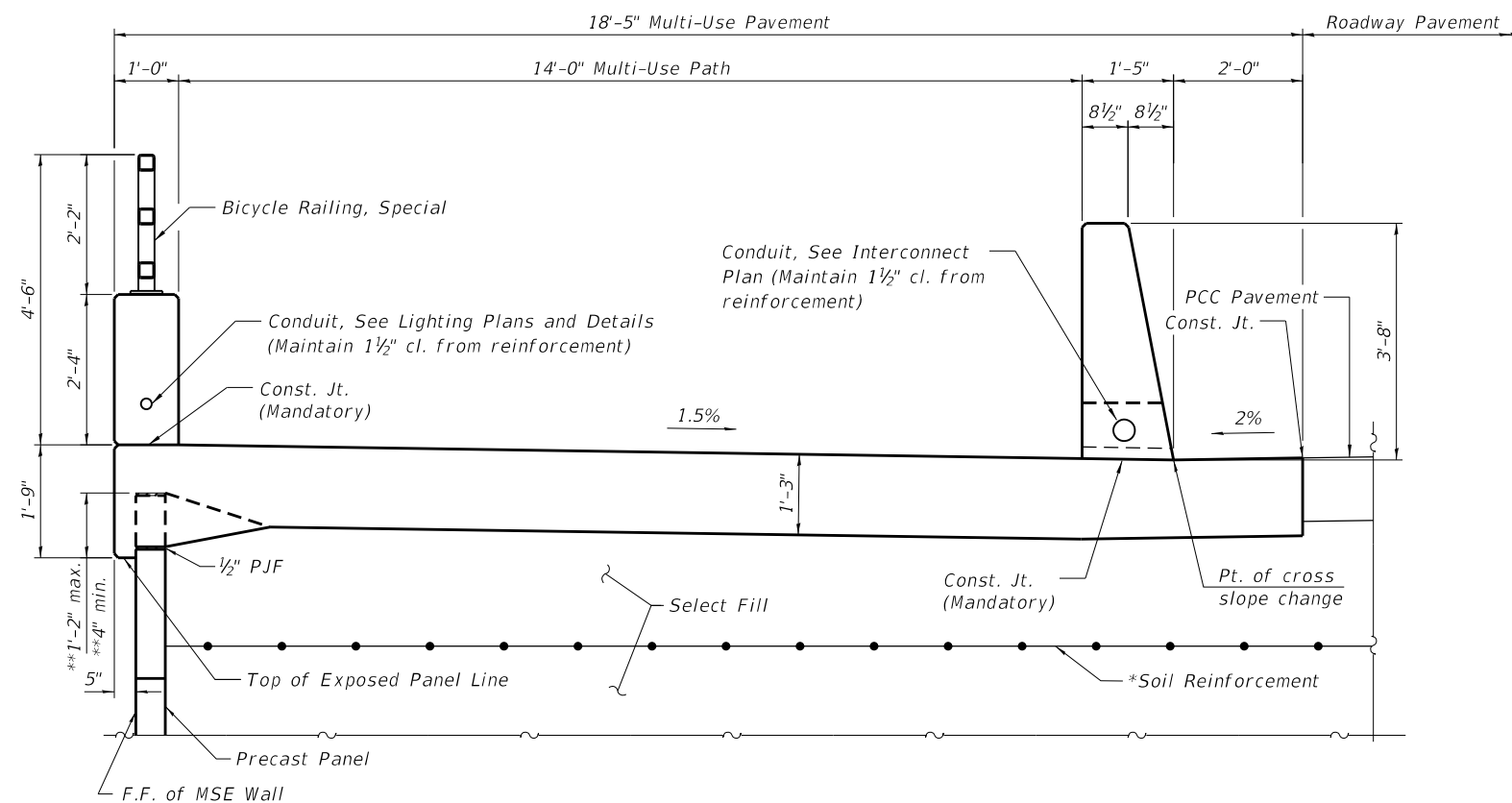
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PLOT DATE =	CHECKED - PRD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
MSE WALL 01

SHEET 2 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	345
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				



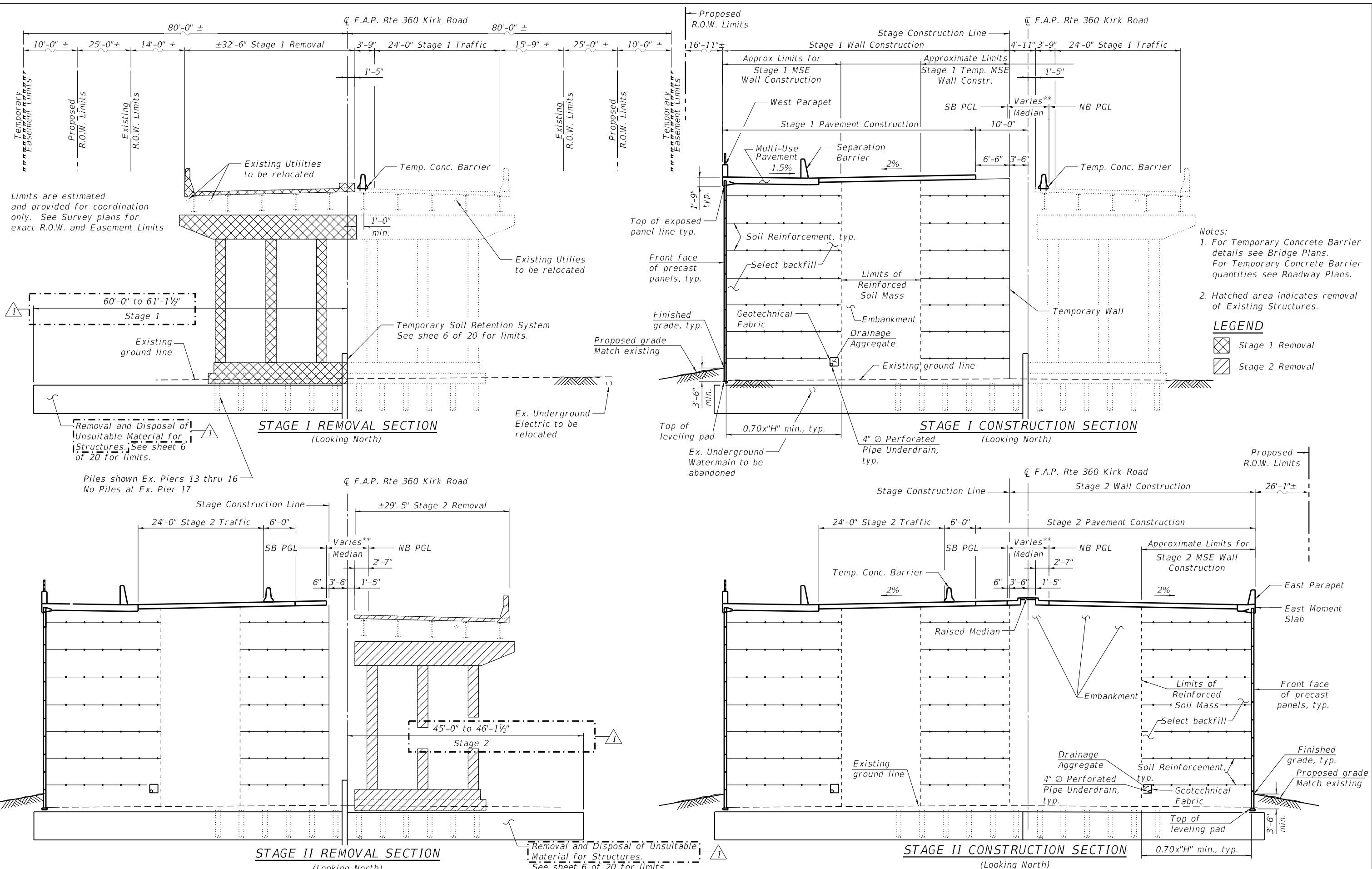
* The MSE wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0. The upper layer of soil reinforcement shall be designed with an additional impact rupture loading of 2,300 lb./ft. of wall and an additional impact pullout loading of 1,300 lb./ft. of wall. The second layer of soil reinforcement shall be designed with an additional impact rupture loading of 600 lb./ft. and an additional impact pullout loading of 600 lb./ft.

** Limits of Bond breaker membrane between front of panel and overhang.

*** Sleeve to remain empty in hatched region.

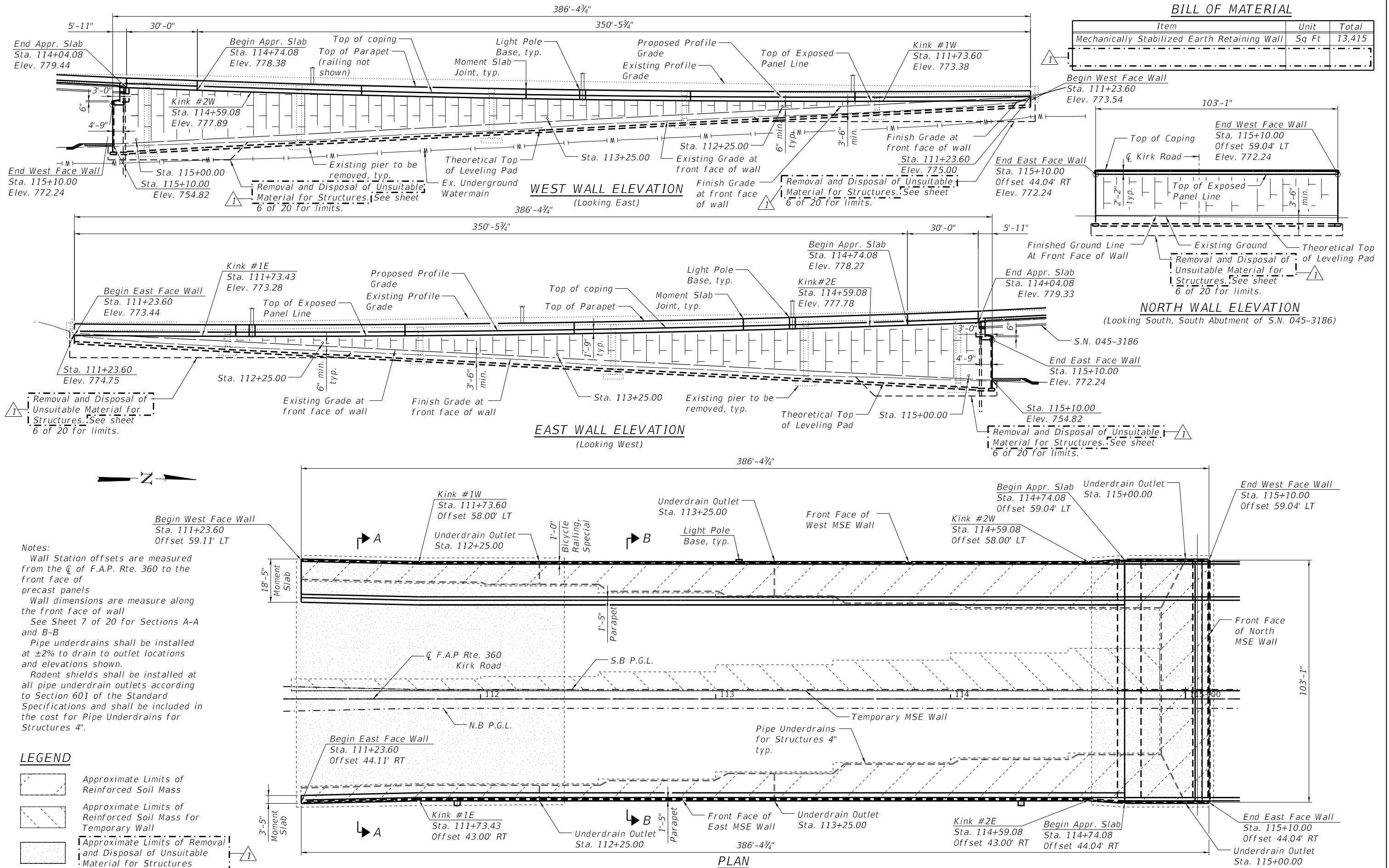
**** Bottom of cap poured against top of plywood. Cut opening to match pile perimeter within $\frac{1}{8}$ ".
Support with bars tack welded to webs rated for 500 lbs. Seal gaps to keep concrete out

MODEL: Default
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	PLOT DATE =		DRAWN - ES	REVISD -				ILLINOIS FED. AID PROJECT				
			CHECKED - PRD	REVISD -								

MODEL: Main View
FILE NAME: W:\894-048 KDOT Kirk Road over UPRRCAD Sheets\Structural\PLANS\MSE Walls & Moment Slabs\MSE Wall 01_Sheet_05_Wall Plan & Elevations.dgn



Notes:

- Wall Station offsets are measured from the CL of F.A.P. Rte. 360 to the front face of precast panels
- Wall dimensions are measure along the front face of wall
- See Sheet 7 of 20 for Sections A-A and B-B
- Pipe underdrains shall be installed at $\pm 2\%$ to drain to outlet locations and elevations shown.
- Rodent shields shall be installed at all pipe underdrain outlets according to Section 601 of the Standard Specifications and shall be included in the cost for Pipe Underdrains for Structures 4".

LEGEND

- Approximate Limits of Reinforced Soil Mass
- Approximate Limits of Reinforced Soil Mass for Temporary Wall
- Approximate Limits of Removal and Disposal of Unsuitable Material for Structures



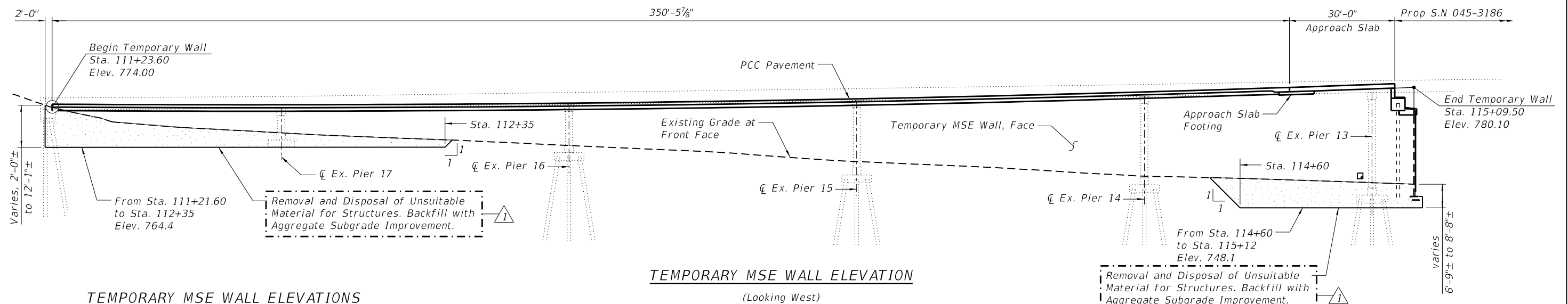
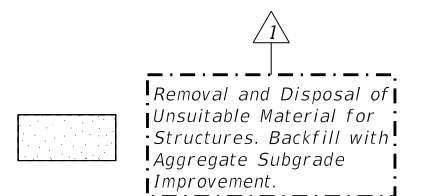
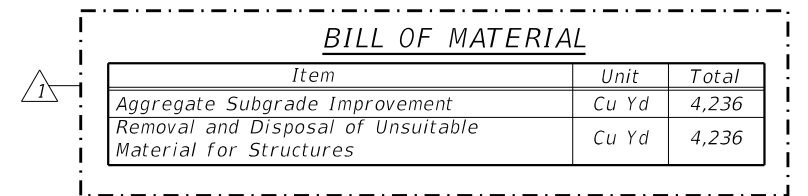
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL PLAN & ELEVATIONS
MSE WALL 01

SHEET 5 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	348
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				



TEMPORARY MSE WALL ELEVATION
(Looking West)

WEST FACE WALL ELEVATIONS

EAST FACE WALL ELEVATIONS

Location	Station	Offset	T/Exposed Panel Elevation	Finish Grade Elevation	Exposed Wall Height
Begin East Face Wall	111+23.60	44.11 Rt.	773.44	774.75	0'
Kink #1E	111+73.43	43.00 Rt.	773.28	772.18	1'-1"
Kink #2E	114+59.08	43.00 Rt.	777.79	757.45	20'-4"
Begin Appr. Slab	114+74.08	44.04 Rt.	778.28	756.67	21'-7"
End Appr. Slab	115+04.08	44.04 Rt.	779.34	755.13	24'-3"
T/ Vertical Exposed Panel Line	115+05.25	44.04 Rt.	779.38	755.06	24'-4"
B/ Vertical Exposed Panel Line	115+05.25	44.04 Rt.	772.24	755.06	17'-2"
End East Face Wall	115+10.00	44.04 Rt.	772.24	754.82	17'-5"

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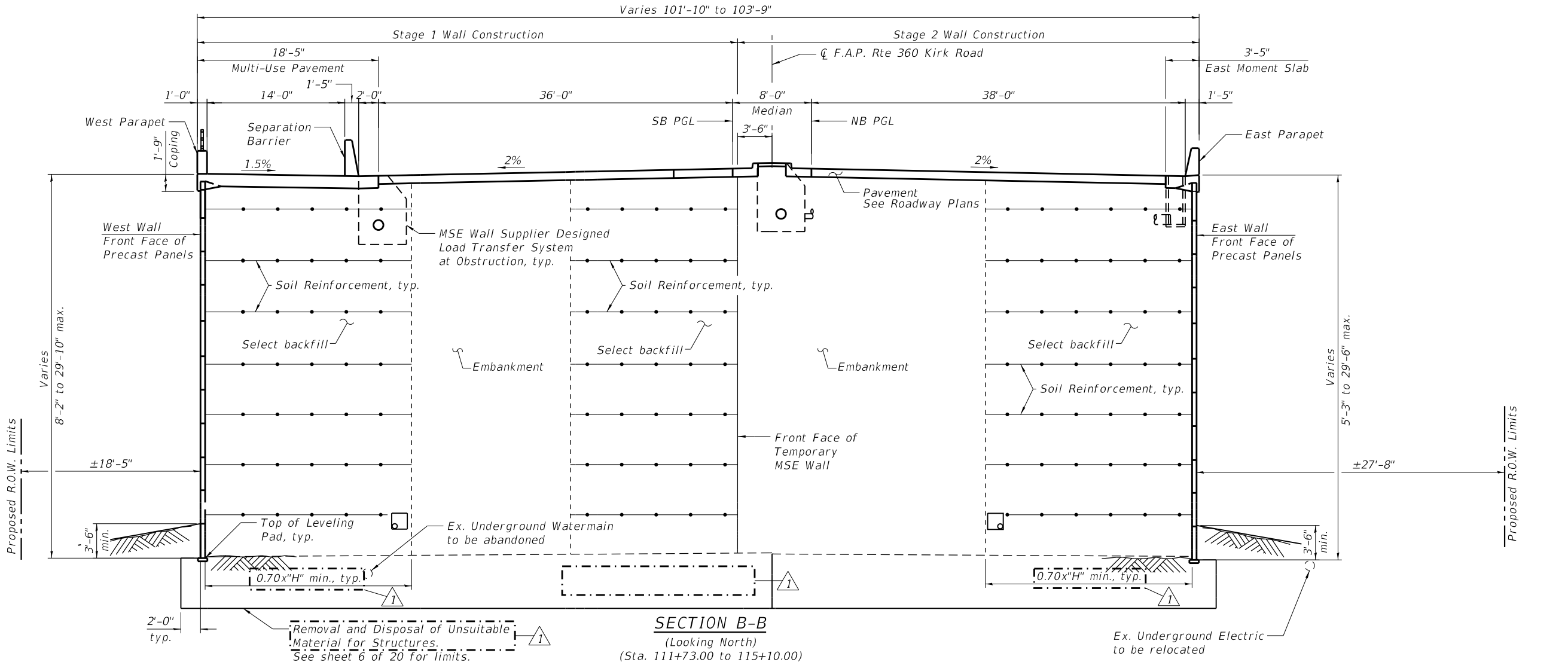
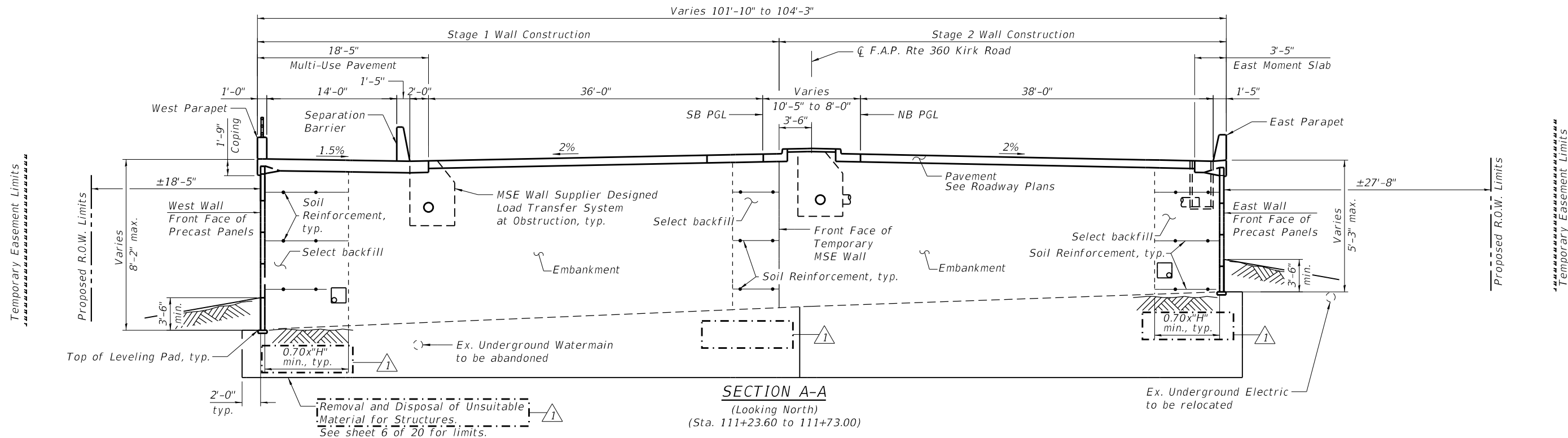
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
MSE WALL 01

SHEET 7 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	350
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				



Existing Structure: S.N. 045-3096 originally constructed in 1974 as FAS Route 1100, Section 192-3VB (Kirk Road). It was repaired in 1977, 1987, 1990, 1998, 2003, 2013, and 2021. It underwent a rehabilitation in 2001. The existing superstructure is 18 span continuous, separated into 4 units, with 7½' deck and non-composite wide-flange beams. Back to back of abutments is 1,376'-2" and Out-to-Out width is 62'-0". Existing substructure contains two concrete reinforced spill through abutments on piles and 17 piers; with piers 1 to 8 and 17 on spread footings, and piers 9 to 16 on piles. Traffic to be maintained using stage construction

* Contractor to verify depth.
(See roadway plans)

 Soil Boring

Approximate Limits of Reinforced Soil Mass

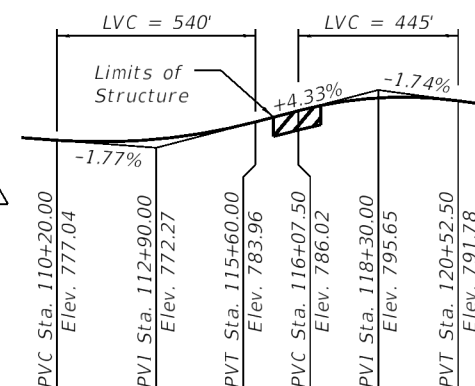
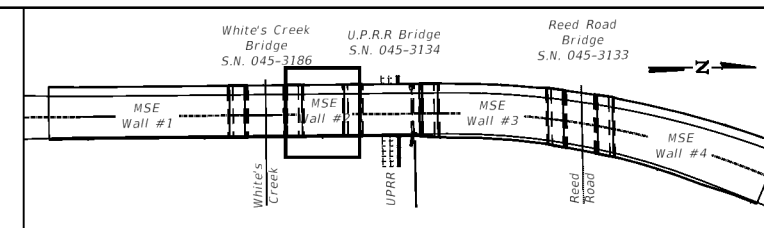


*Approximate Limits of
Reinforced Soil Mass for
Temporary Wall*



Approximate Limits of Removal and Disposal of Unsuitable Material for Structures

Note:
Wall Station and offsets
are measured from the C/L of
Kirk Rd. to the front face of
precast panels.



PROFILE GRADE

(along N.B. & S.B. PGL)

DESIGN SPECIFICATIONS

2024 AASHTO LRFD Bridge Design Specifications, 10th Edition

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

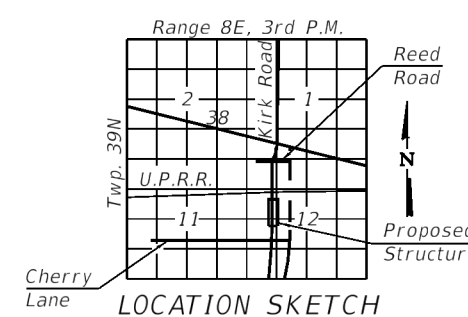
$f'_c = 4,000$ psi (Moment Slab & Parapets)

$f'_c = 3,500$ psi (All Other Retaining Wall Concrete)

 $f_y = 60,000 \text{ psi (Reinforcement)}$

PRECAST UNITS

$f'_c = 4,500$ psi (Precast Panels)



GENERAL PLAN AND ELEVATION

KIRK ROAD

F.A.P. RTE. 360 SEC. 12-00192-04-BR

KANE COUNTY

STATIONED
ed STA. 115+80.00 to STA. 117+34.08

MSE WALL 02



USER NAME	DESIGNED	ES	REVISED	7/24/2026	PRD
	CHECKED	PRD	REVISED		
PLOT SCALE	DRAWN	ES	REVISED		
PLOT DATE	CHECKED	PRD	REVISED		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
MSE WALL 02

SHEET 1 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	364
		CONTRACT NO. 61M13		
		ILLINOIS FED. AID PROJECT		

Reinforcement bars designated (E) shall be epoxy coated.
Slipforming of the parapets is not allowed.
A protective coat shall be applied to the top and inside faces of the parapets, separation barrier, multi-use path, and shoulders.
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions in the field.
Wall Stations and Offsets are given to the Front Face (FF) of the wall and are measured from centerline of Kirk Road.
Wall is built in conjunction with new bridge S.N 045-3186 and S.N 045-3134. Piles are installed prior to the construction of wall.
Horizontal dimensions measured along front face of precast panels.
Utilities shall be relocated by others.

1. *General Plan and Elevation*
2. *General Data*
3. *Typical Details*
4. *Stage I & II Construction*
5. *Wall Plan & Elevations*
6. *Temporary Wall Elevation*
7. *Typical Sections*
8. *Removal and Replacement of Unsuitable Material*
9. *Stage I Temporary Soil Retention System*
10. *Stage II Temporary Soil Retention System*
11. *Existing Structure Removal Details*
12. *Moment Slab Plan and Elevation*
13. *Moment Slab Sections and Details*
14. *Moment Slab and Light Pole Details*
15. *Drainage Details I*
16. *Drainage Details II*
17. *Railing Details*
18. *Boring Logs I*
19. *Boring Logs II*

Item	Unit	Total
Geotechnical Fabric For Ground Stabilization	Sq Yd	1,968
Aggregate Subgrade Improvement	Cu Yd	4,951
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	4,951
Concrete Structures	Cu Yd	125.7
Form Liner Textured Surface	Sq Ft	14,020
Protective Coat	Sq Yd	310
Reinforcement Bars, Epoxy Coated	Pound	17,320
Temporary Soil Retention System	Sq Ft	970
Mechanically Stabilized Earth Retaining Wall	Sq Ft	15,305
Temporary Mechanically Stabilized Earth Retaining Wall	Sq Ft	4,560
Drainage System For Structures	L Sum	0.25
Pipe Underdrains For Structures 4"	Foot	432
Staining Concrete Structures	Sq Ft	14,020
Bicycle Railing, Special	Foot	83

1'-4"

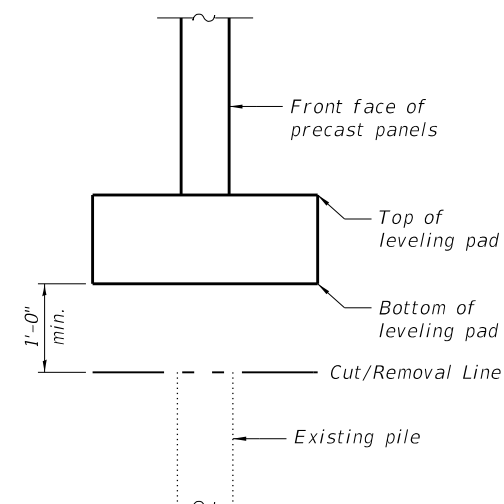
Overlap geotechnical fabric by 12" min.

* Geotechnical Filter Fabric for French Drains

* Drainage Aggregate

Perforated Pipe Underdrains for Structures 4"

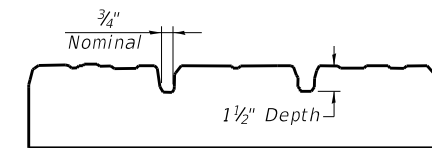
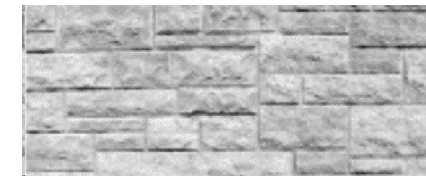
* Included in cost for Pipe Underdrains for Structures 4"



Technical drawing of a parapet wall cross-section showing reinforcement details. The drawing includes the following specifications:

- Top Reinforcement:** 2-#4 h(E) bars parallel to slope.
- Top Width:** $10\frac{1}{2}"$ min.
- Vertical Spacing:** 2" cl. typ.
- Internal Reinforcement:** #4 u(E) bars at dowel locations.
- Lap Length:** 10" lap.
- Horizontal Reinforcement:** 1-#4 h(E) bar parallel to top of panel.
- Dowel Embedment:** #4 dowels embedded in panel at $\pm 2'-0"$ cts.
- Panel Height:** 1'-0".
- Base Width:** 5" min.
- Variable Height:** Varies (indicated by a vertical dimension line).
- Top Reinforcement (Right):** 2-#4 h(E) bars parallel to slope.
- Bottom Reinforcement:** 2-#4 h(E) bars parallel to slope.
- Top of exposed panel line:** 3/4" Continuous Drip Groove.
- Minimum Height:** 4" min.
- Maximum Height:** 1'-2" max.
- Label:** Precast panel.

**** Limits of Bond breaker membrane
between front of panel and overhang.**



The diagram is a technical elevation view of a bridge parapet. It is divided into two main sections: 'Wall Parapet' on the left and 'Bridge Parapet' on the right. The 'Wall Parapet' section shows a solid structure with a dashed line indicating the 'Bk. of Abut.' (back of abutment). The 'Bridge Parapet' section shows a more complex structure with a 'Bridge Deck' on top. A 'Coping' is shown on the bridge parapet, with an 'Eye bolt' and 'PJF' (Prestress Joint Fitting) detail. The 'Exposed panel line' is indicated by a diagonal line. 'Precast Panels' are shown at the base of the wall parapet. The 'Front face of precast panels' is indicated at the bottom right. Dimensions of 1'-9" and 3'-0" are shown for the coping and precast panel sections.

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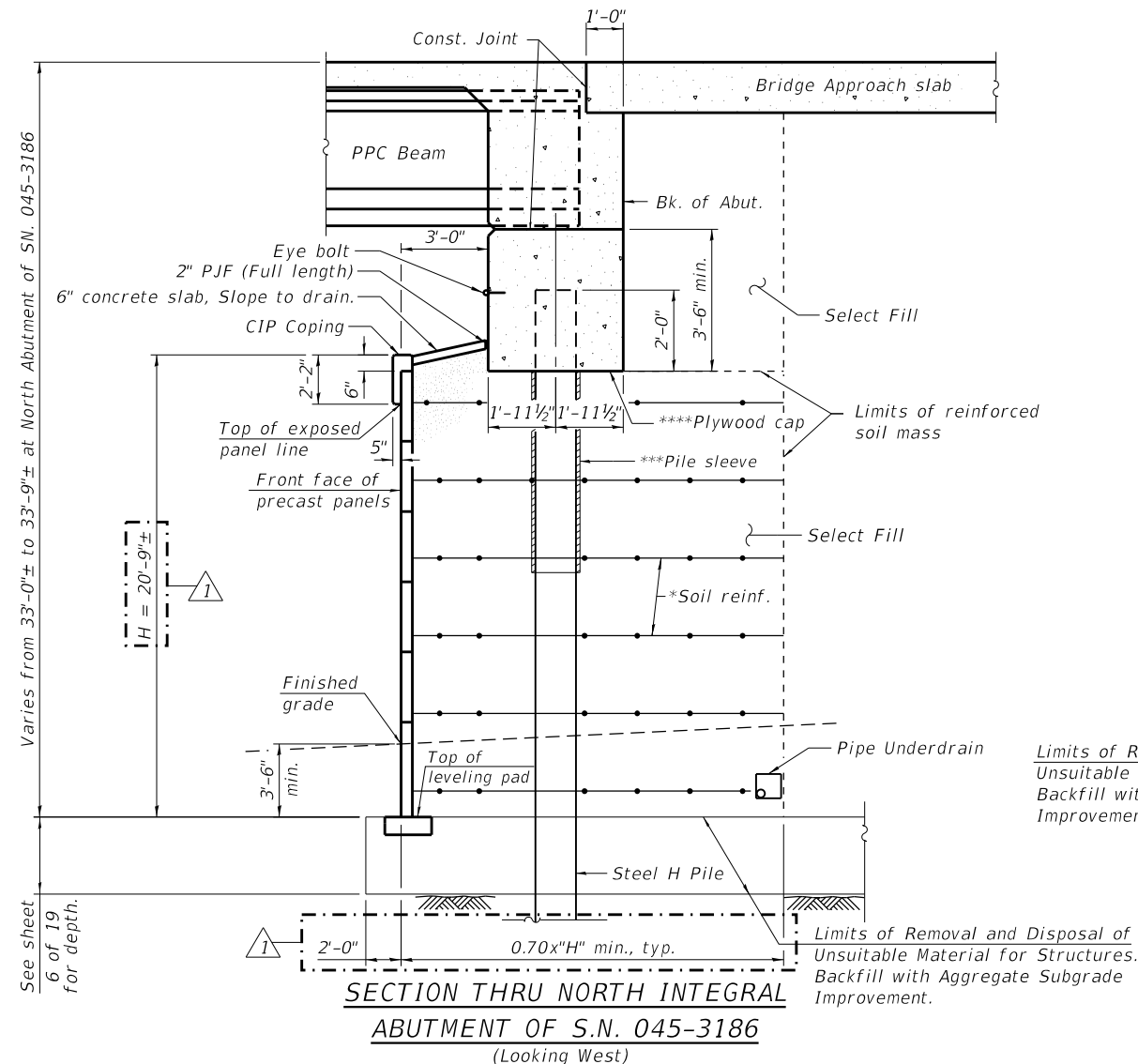
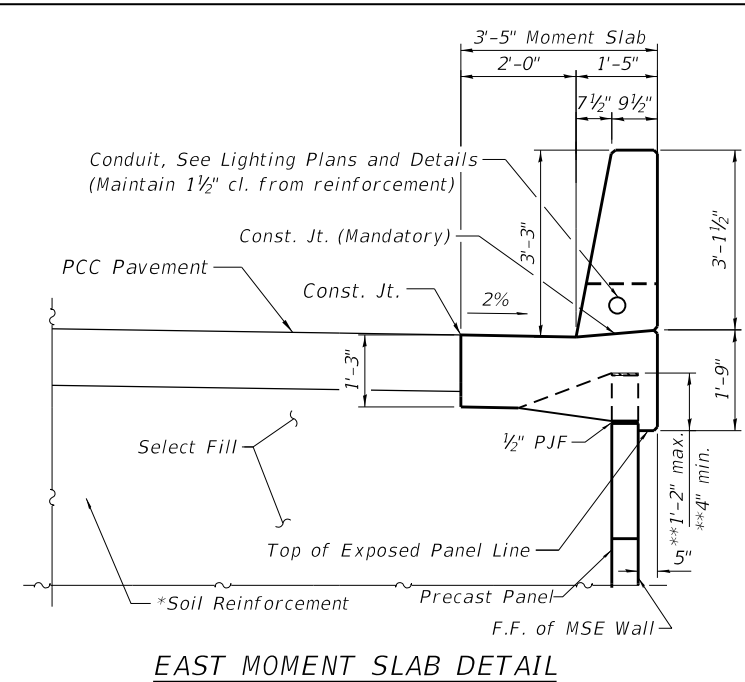
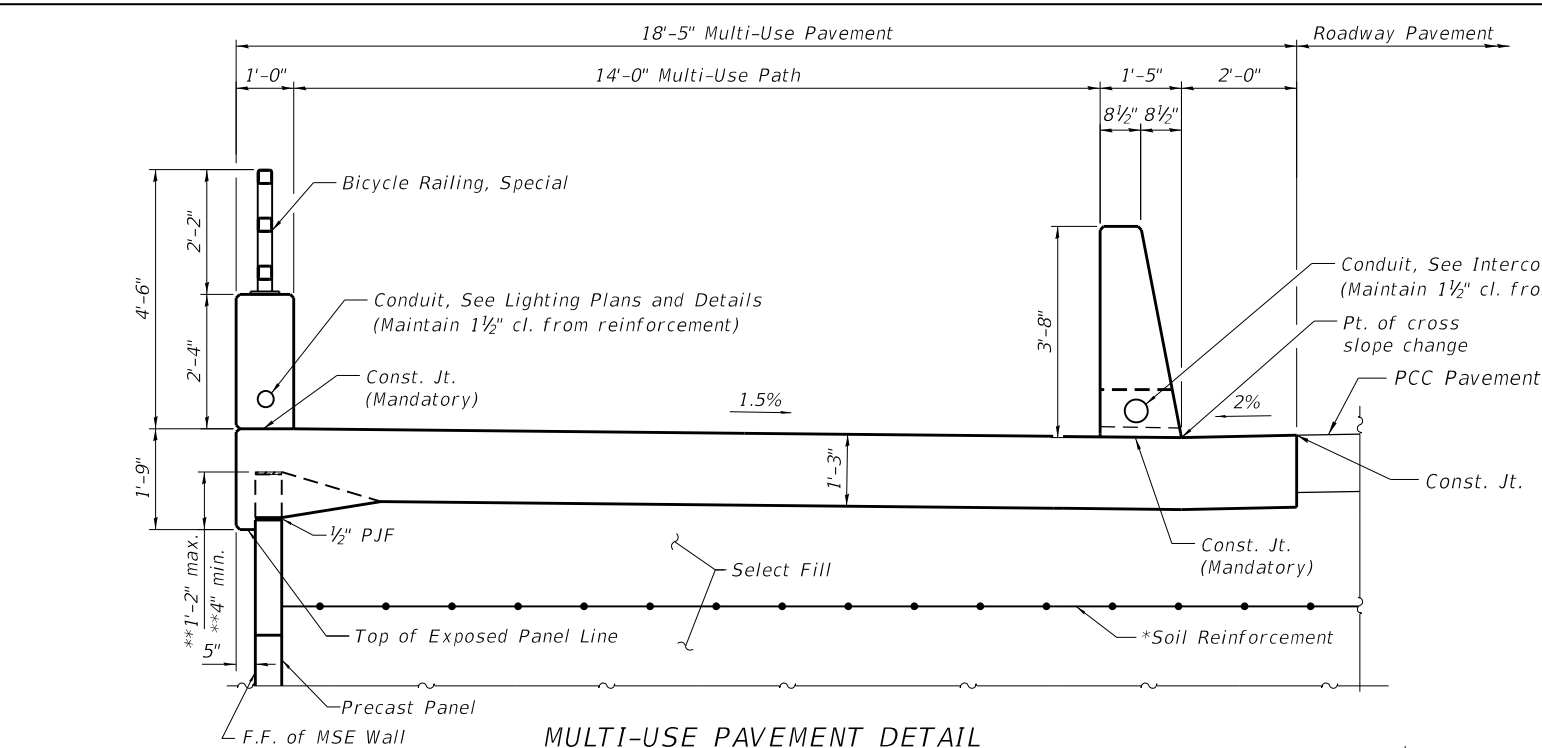
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL DATA
MSE WALL 02

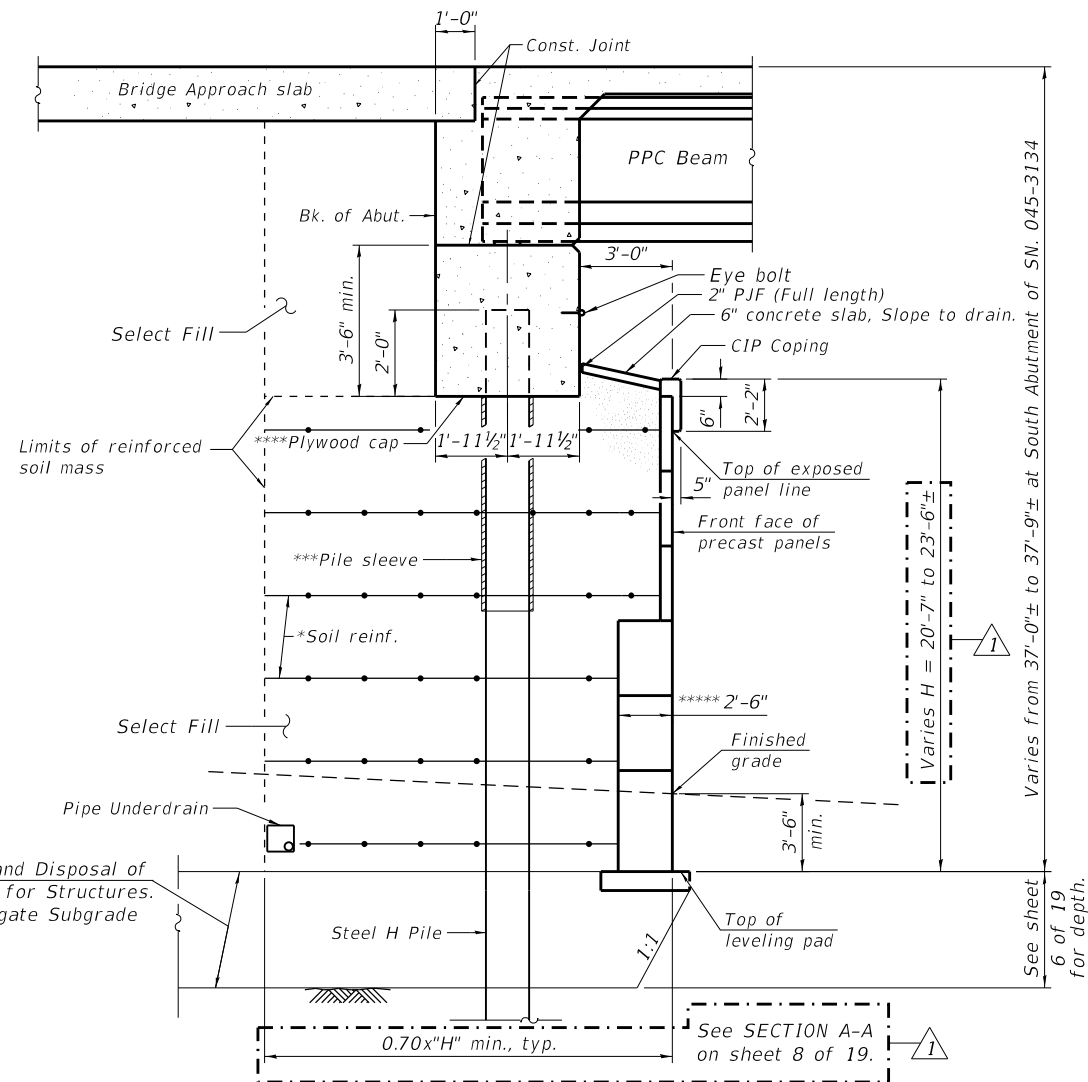
SHEET 2 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	365
		CONTRACT NO. 61M13		
ILLINOIS		FED. AID PROJECT		

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Limits of Removal and Disposal of Unsuitable Material for Structures. Backfill with Aggregate Subgrade Improvement.



* The MSE wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0. The upper layer of soil reinforcement shall be designed with an additional impact rupture loading of 2,300 lb./ft. of wall and an additional impact pullout loading of 1,300 lb./ft. of wall. The second layer of soil reinforcement shall be designed with an additional impact rupture loading of 600 lb./ft. and an additional impact pullout loading of 600 lb./ft.

** Limits of Bond breaker membrane between front of panel and overhang..

*** Sleeve to remain empty in hatched region.

**** Bottom of cap poured against top of plywood. Cut opening to match pile perimeter within 1/8". Support with bars tack welded to webs rated for 500 lbs. Seal gaps to keep concrete out.

***** MSE Panels within 50'-0" of Railroad main track lines 1, 2 & 3 shall be 2'-6" thick for a height of at least 12'-0" above top of rail. Applies only to Wall at South Abutment of S.N. 045-3134.



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PLOT DATE =	CHECKED - PRD	REVISED -

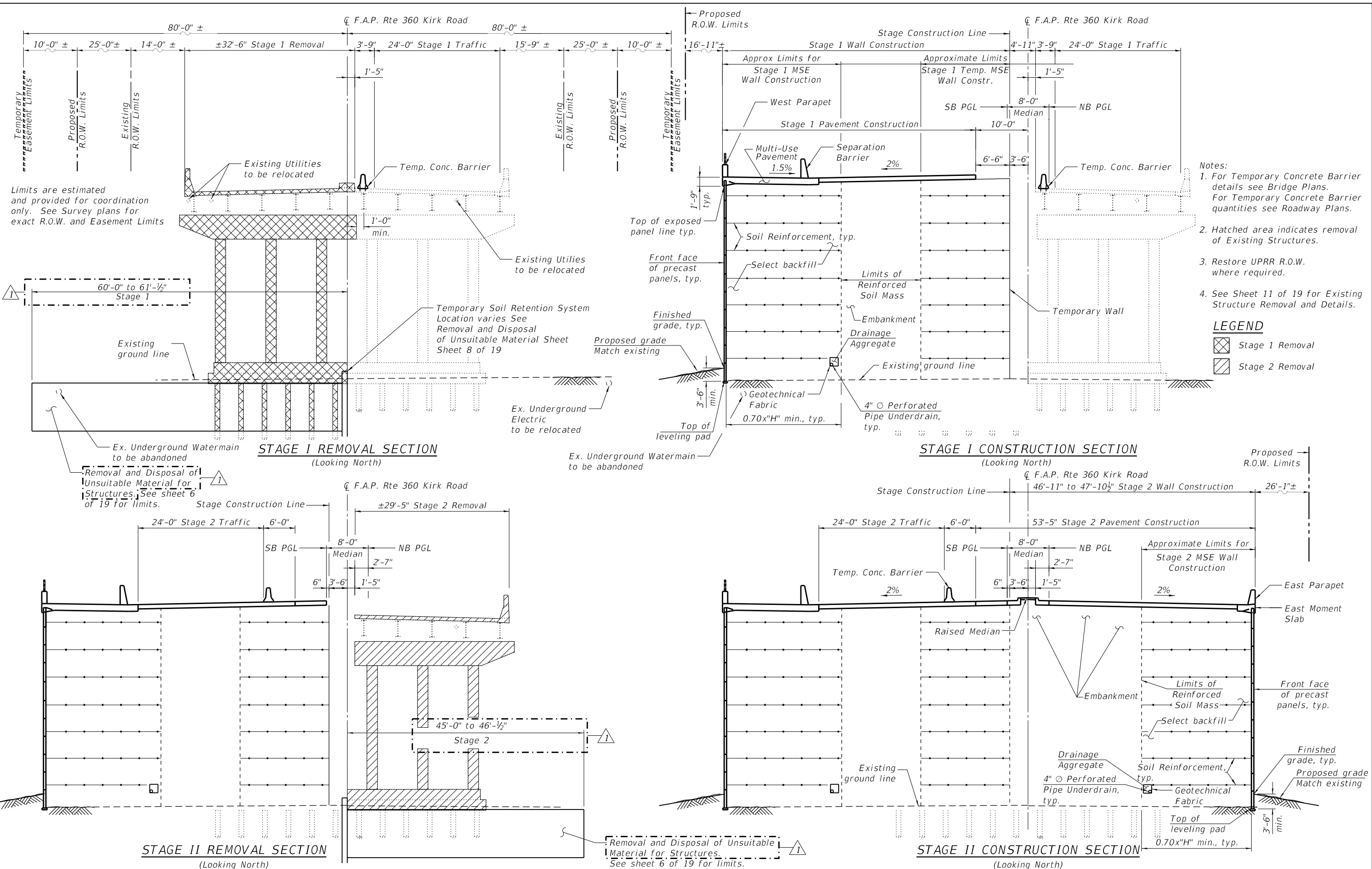
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL DETAILS
MSE WALL 02

SHEET 3 OF 19 SHEETS

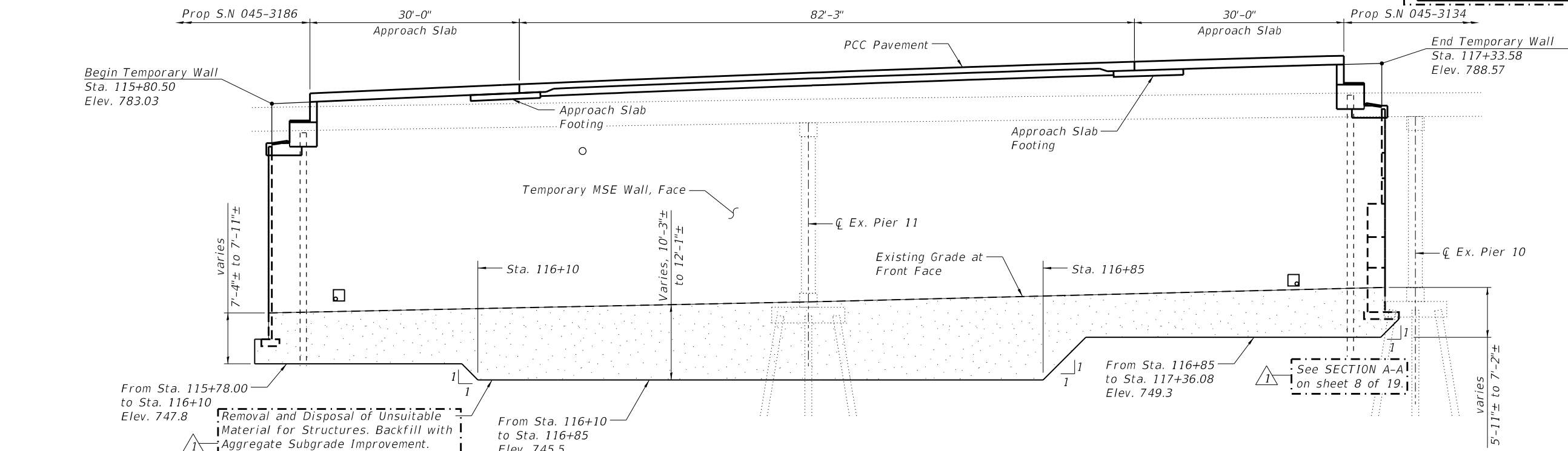
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CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

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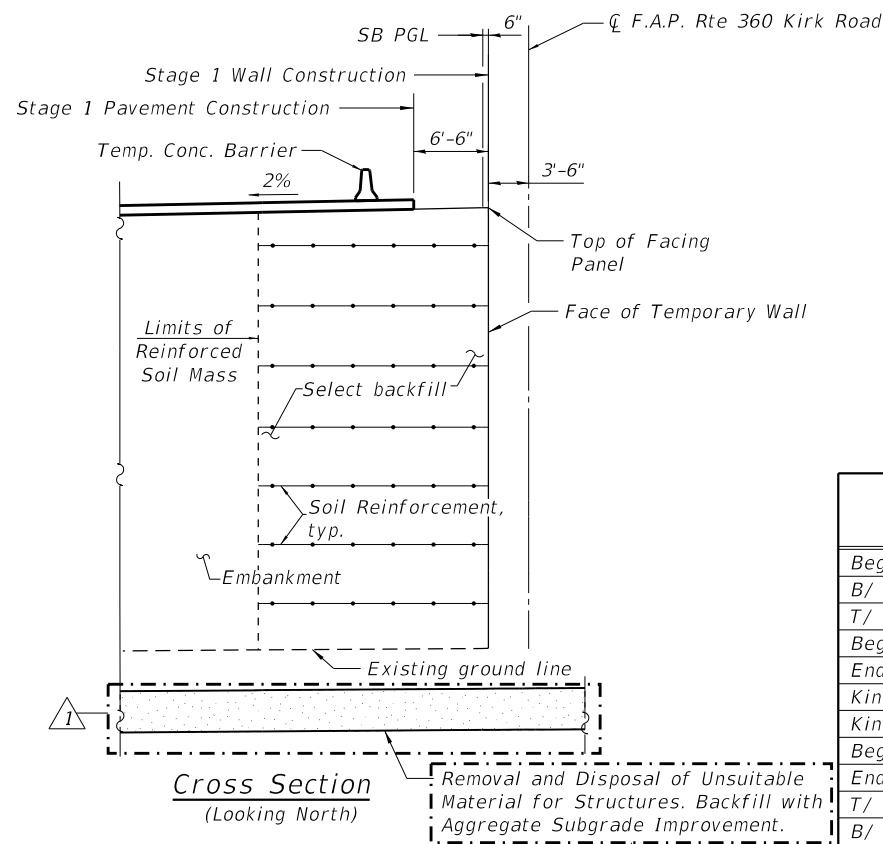


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	CHECKED - PRD		REVIS	REVIS						360	12-00192-04-BR	KANE	518	367
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BILL OF MATERIAL		
Item	Unit	Total
Aggregate Subgrade Improvement	Cu Yd	4,951
Removal and Disposal of Unsuitable Material for Structures	Cu Yd	4,951



WEST FACE WALL ELEVATIONS

Location	Station	Offset	T/Exposed Panel Elevation	Finish Grade Elevation	Exposed Wall Height
Begin West Face Wall	115+80.00	59.04 Lt.	775.54	754.82	20'-9"
B/ Vertical Exposed Panel Line	115+84.75	59.04 Lt.	775.54	754.86	20'-8"
T/ Vertical Exposed Panel Line	115+84.75	59.04 Lt.	782.75	754.86	27'-11"
Begin Appr. Slab	115+85.92	59.04 Lt.	782.80	754.87	27'-11"
End Appr. Slab	116+15.92	59.04 Lt.	784.10	755.10	29'-0"
Kink #1W	116+30.92	58.00 Lt.	784.71	755.21	29'-6"
Kink #2W	116+83.16	58.00 Lt.	786.62	755.61	31'-0"
Begin Appr. Slab	116+98.16	59.04 Lt.	787.10	755.72	31'-5"
End Appr. Slab	117+28.16	59.04 Lt.	787.97	755.95	32'-0"
T/ Vertical Exposed Panel Line	117+29.33	59.04 Lt.	788.00	755.96	32'-0"
B/ Vertical Exposed Panel Line	117+29.33	59.04 Lt.	779.47	755.96	23'-6"
End West Face Wall	117+34.08	59.04 Lt.	779.47	756.00	23'-6"

EAST FACE WALL ELEVATIONS

Location	Station	Offset	T/Exposed Panel Elevation	Finish Grade Elevation	Exposed Wall Height
Begin East Face Wall	115+80.00	44.04 Rt.	775.54	754.82	20'-9"
B/ Vertical Exposed Panel Line	115+84.75	44.04 Rt.	775.54	754.88	20'-8"
T/ Vertical Exposed Panel Line	115+84.75	44.04 Rt.	782.65	754.88	27'-9"
Begin Appr. Slab	115+85.92	44.04 Rt.	782.70	754.90	27'-10"
End Appr. Slab	116+15.92	44.04 Rt.	784.00	755.30	28'-8"
Kink #1E	116+30.92	43.00 Rt.	784.61	755.49	29'-1"
Kink #2E	116+83.16	43.00 Rt.	786.52	756.19	30'-4"
Begin Appr. Slab	116+98.16	44.04 Rt.	787.00	756.38	30'-7"
End Appr. Slab	117+28.16	44.04 Rt.	787.87	756.78	31'-1"
T/ Vertical Exposed Panel Line	117+29.33	44.04 Rt.	787.90	756.80	31'-1"
B/ Vertical Exposed Panel Line	117+29.33	44.04 Rt.	779.47	756.80	22'-8"
End East Face Wall	117+34.08	44.04 Rt.	779.47	756.86	22'-7"

TEMPORARY MSE WALL ELEVATIONS

Station	Offset	T/Exposed Panel Elevation	Existing Grade Elevation	Exposed Wall Height
115+80.50	3.50 Lt.	783.03	754.65	28'-5"
116+00.00	3.50 Lt.	783.87	754.86	29'-0"
116+50.00	3.50 Lt.	785.91	755.17	30'-9"
117+00.00	3.50 Lt.	787.62	756.24	31'-5"
117+33.58	3.50 Lt.	788.57	756.57	32'-0"



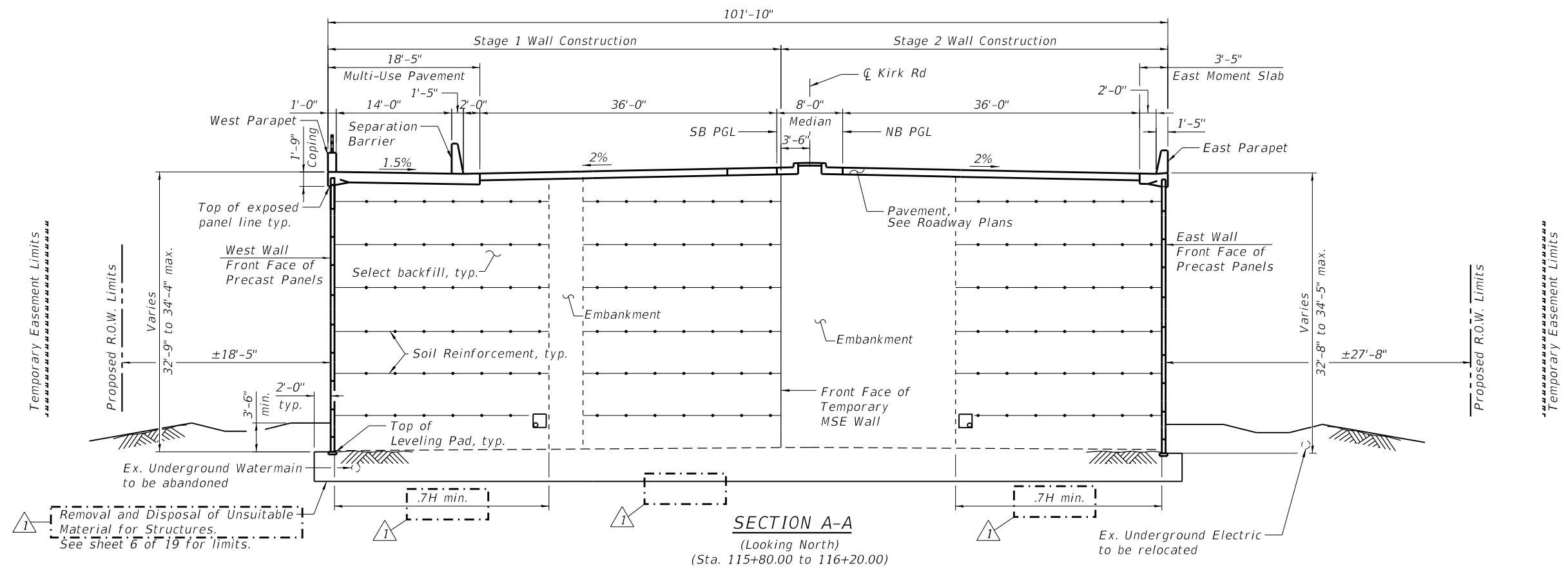
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

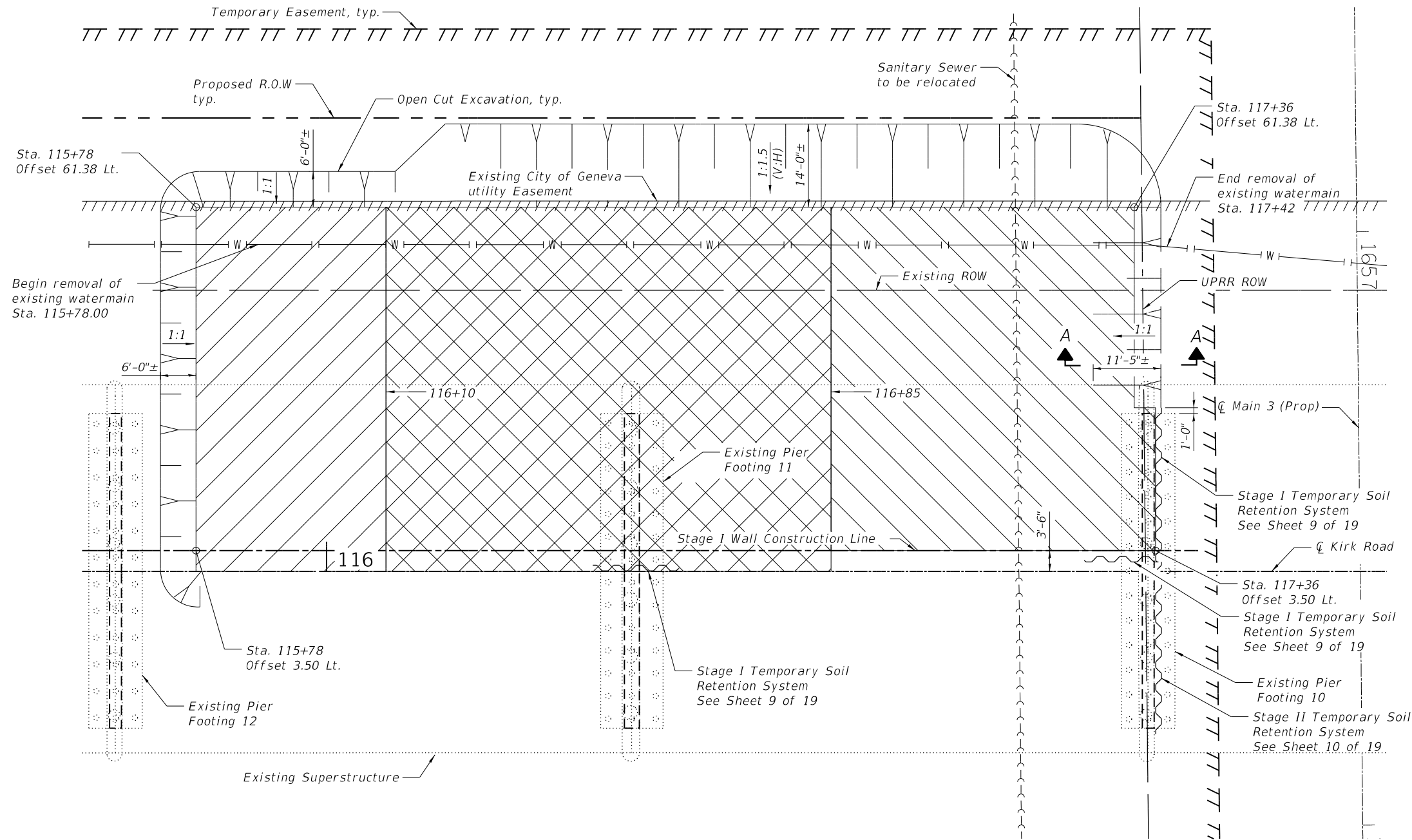
TEMPORARY WALL ELEVATION
MSE WALL 02

SHEET 6 OF 19 SHEETS

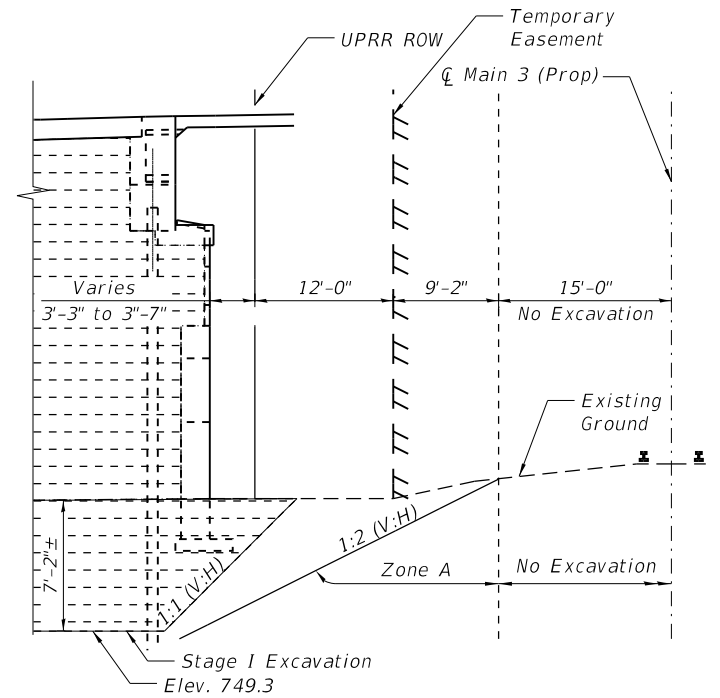
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	369
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				



MODEL: Main View
FILE NAME: W:\894-048 KDOT Kirk Road over UPRR\CAD Sheets\Structural\FINAL PLANS\MSE Walls & Moment Slabs\MSE Wall 02\MSE Wall 02_Sheet_08_Removal and Replacement of Unsuitable Material.dgn



PLAN



SECTION THROUGH MSE WALL 02
UPRR SOUTH ABUTMENT
& UPRR GUIDELINES
SECTION A-A

Not For Construction - Reference Only

Notes:
A cantilevered sheet piling design does not appear to be feasible and additional members or other retention systems may be necessary. The Contractor shall submit a Temporary Soil Retention System design including plan details and calculations for review and acceptance by the Engineer.
Remove 12" Water Pipe and 24" Sanitary Sewer Pipe and close ends of Pipes.
See Sheet 11 of 19 for pier 11 and 12 removal and details.

LEGEND

- Removal and Disposal of Unsuitable Material for Structures down to elevation 747.8
- Removal and Disposal of Unsuitable Material for Structures down to elevation 745.5
- Removal and Disposal of Unsuitable Material for Structures down to elevation 749.3



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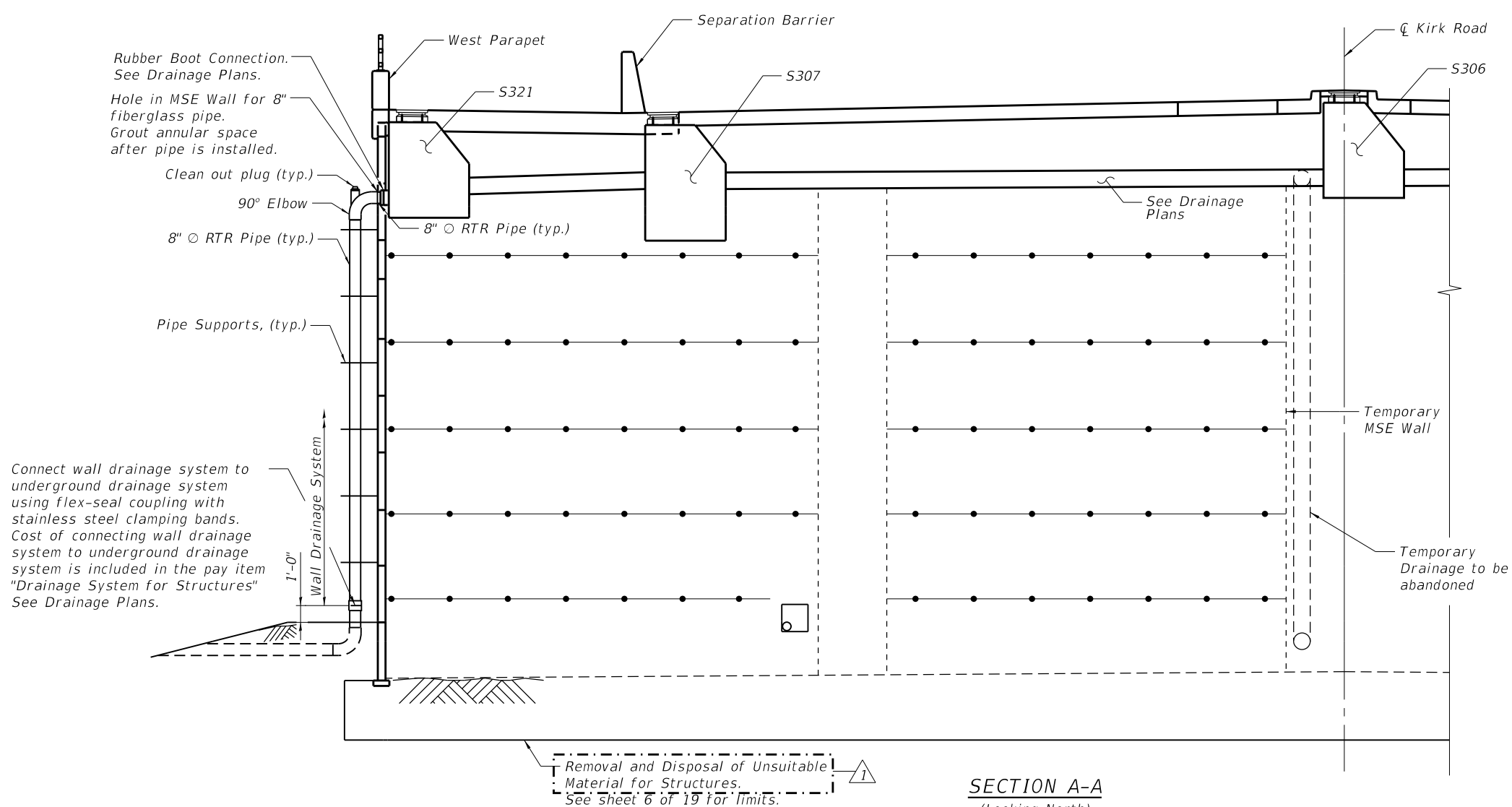
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL
MSE WALL 02

SHEET 8 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	371
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

MODEL: Main
FILE NAME: W:\894-048 KDOT Kirk Road over UPRR\CAD Sheets\Structural\FINAL PLANS\MSE Walls & Moment Slabs\MSE Wall_02_Sheet_16_Drainage Details IIdgn



NOTES:

Contractor shall furnish and install a wall drainage system as shown and noted on the plans and in accordance with Section 523 of the Standard Specifications. Work includes all piping, fittings, support brackets, hangers, inserts and bolts.

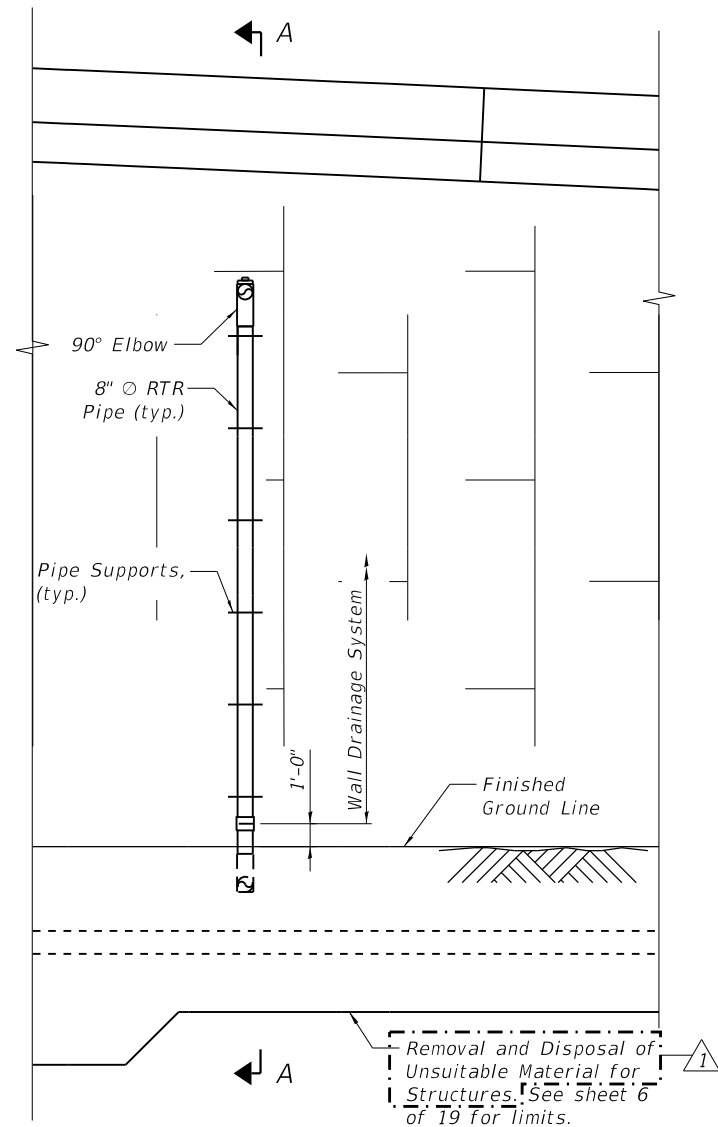
The Contractor shall submit shop drawings showing details of the drainage system to the Engineer for approval before any fabrication has begun. Cost included in Drainage System For Structures.

Downspouts shall extend a minimum of 1" into fittings.

Contractor shall design all pipe supports. Runs of pipe shall be supported at spacings not exceeding those recommended by the manufacturer of the pipe. Supports that have point contact or narrow supporting areas shall be avoided. Standard slings, clamps, clevis hangers and shoe supports designed for use with steel pipe may be used. Minimum strap width for brackets shall be 1 1/2 inches. Straps shall have 120 degrees of contact with the pipe. Pipes supported on less than 120 degrees of contact shall have a split fiberglass pipe protective sleeve bonded in place with adhesive.

All pipe supports and associated hardware shall be hot dip galvanized according to AASHTO M 232 or AASHTO M 111.

All reinforced fiberglass pipe and fittings shall be handled and installed according to guidelines and procedures recommended by the manufacturer or supplier of the material. Color of pipe and fittings shall be light grey to match concrete beams.



WEST WALL - ELEVATION
(Looking East)
(Sta. 116+25.65)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage System For Structures	L Sum	0.25



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS II
MSE WALL 02

SHEET 16 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	379
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

Bench Mark: Chiseled square in top of parapet wall located at the southwest corner of existing bridge, S.N. 045-3096 at Sta. 111+08.40 Offset 30.19' LT. Elev. 782.00.

Existing Structure: S.N. 045-3096 originally constructed in 1974 as FAS Route 1100, Section 192-3VB (Kirk Road). It was repaired in 1977, 1987, 1990, 1998, 2003, 2013, and 2021. It underwent a rehabilitation in 2001. The existing superstructure is 18 span continuous, separated into 4 units, with 7½" deck and non-composite wide flange beams. Back to back of abutments is 1,376'-2" and Out-to-Out width is 62'-0". Existing substructure contains two concrete reinforced spill through abutments on piles and 17 piers; with piers 1 to 8 and 17 on spread footings, and piers 9 to 16 on piles. Traffic to be maintained using stage construction

Salvage: No Salvage.

* Contractor to verify depth.
(See roadway plans)

LEGEND

- Soil Boring
- Approximate Limits of Reinforced Soil Mass
- Approximate Limits of Reinforced Soil Mass for Temporary Wall
- Approximate Limits of Aggregate Column Ground Improvement

*Ex. Underground Watermain to be abandoned, West Wall only
(See Drainage and Utilities Plan)

Ex. Aerial Line to be relocated
(See Drainage and Utilities Plan)

CURVE DATA

P.I. Sta. = 122+41.65
Δ = 24°35'23" (RT)
D = 3°38'16"
R = 1,575.00'
T = 343.26'
L = 675.95'
E = 36.97'
P.C. Sta. = 118+98.39
P.T. Sta. = 125+74.34

Note:
Wall Station and offsets are measured from the C of Kirk Rd. to the front face of precast panels.

ELEVATION
(Looking West at Front Face of East Wall, West Wall similar)

PROFILE GRADE
(along N.B. & S.B. PGL)

DESIGN SPECIFICATIONS

2024 AASHTO LRFD Bridge Design Specifications, 10th Edition

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

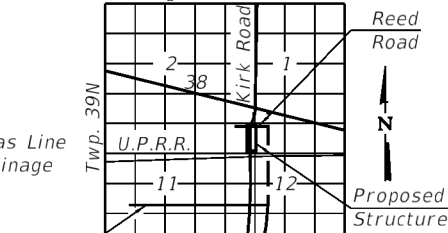
FIELD UNITS

f'c = 4,000 psi (Moment Slab & Parapets)
f'c = 3,500 psi (All Other Retaining Wall Concrete)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 4,500 psi (Precast Panels)

LOCATION SKETCH



GENERAL PLAN AND ELEVATION

KIRK ROAD

F.A.P. RTE. 360 SEC. 12-00192-04-BR

KANE COUNTY

STA. 118+44.74 to STA. 121+21.27

MSE WALL 03

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
MSE WALL 03

SHEET 1 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	383
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

BLA, Inc.

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GENERAL NOTES:

Reinforcement bars designated (E) shall be epoxy coated.
Slipforming of the parapets is not allowed.
A protective coat shall be applied to the top and inside faces of the parapets, separation barrier, multi-use path, and shoulders.
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions in the field.
Wall Stations and Offsets are given to the Front Face (FF) of the wall and are measured from centerline of Kirk Road.
Wall is built in conjunction with new bridges S.N. 045-3134 and S.N. 045-3133. Piles are installed prior to the construction of wall.
Horizontal dimensions measured along front face of precast panels.
Utilities shall be relocated by others.

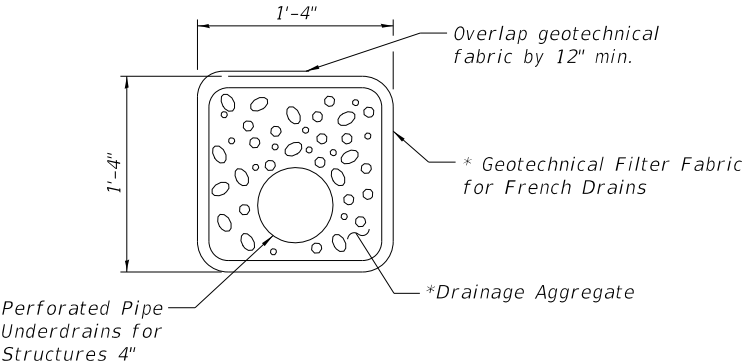
INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. General Data
- 3. Typical Details
- 4. Stage I & II Construction
- 5. Wall Plan & Elevations
- 6. Temporary Wall Elevation
- 7. Typical Sections
- 8. Excavation Plan and Details at UPRR
- 9. Moment Slab Plan and Elevation I
- 10. Moment Slab Plan and Elevation II
- 11. Moment Slab Plan and Elevation III
- 12. Moment Slab Sections and Details
- 13. Moment Slab and Light Pole Details
- 14. Drainage Details I
- 15. Drainage Details II
- 16. Railing Details
- 17. Boring Logs I
- 18. Boring Logs II
- 19. Boring Logs III
- 20. Boring Logs IV
- 21. Boring Logs V
- 22. Boring Logs VI

TOTAL BILL OF MATERIAL

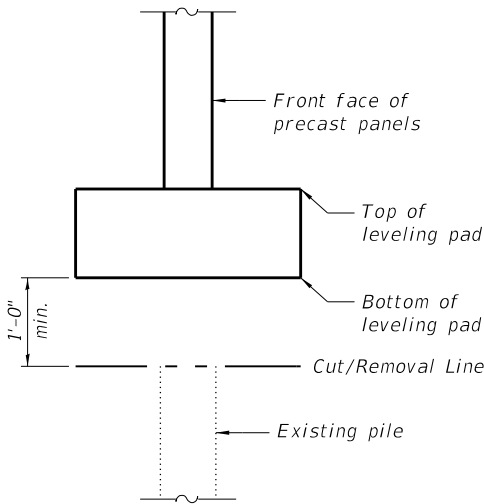
Item	Unit	Total
Structure Excavation	Cu Yd	464
Concrete Structures	Cu Yd	304.4
Form Liner Textured Surface	Sq Ft	17,277
Protective Coat	Sq Yd	765
Reinforcement Bars, Epoxy Coated	Pound	43,310
Mechanically Stabilized Earth Retaining Wall	Sq Ft	19,196
Temporary Mechanically Stabilized Earth Retaining Wall	Sq Ft	6,374
Drainage System For Structures	L Sum	0.25
Pipe Underdrains For Structures 4"	Foot	634
Aggregate Column Ground Improvement	L Sum	1
Staining Concrete Structures	Sq Ft	17,277
Bicycle Railing, Special	Foot	205

See SN 045-3186 for Removal of Existing Structures.

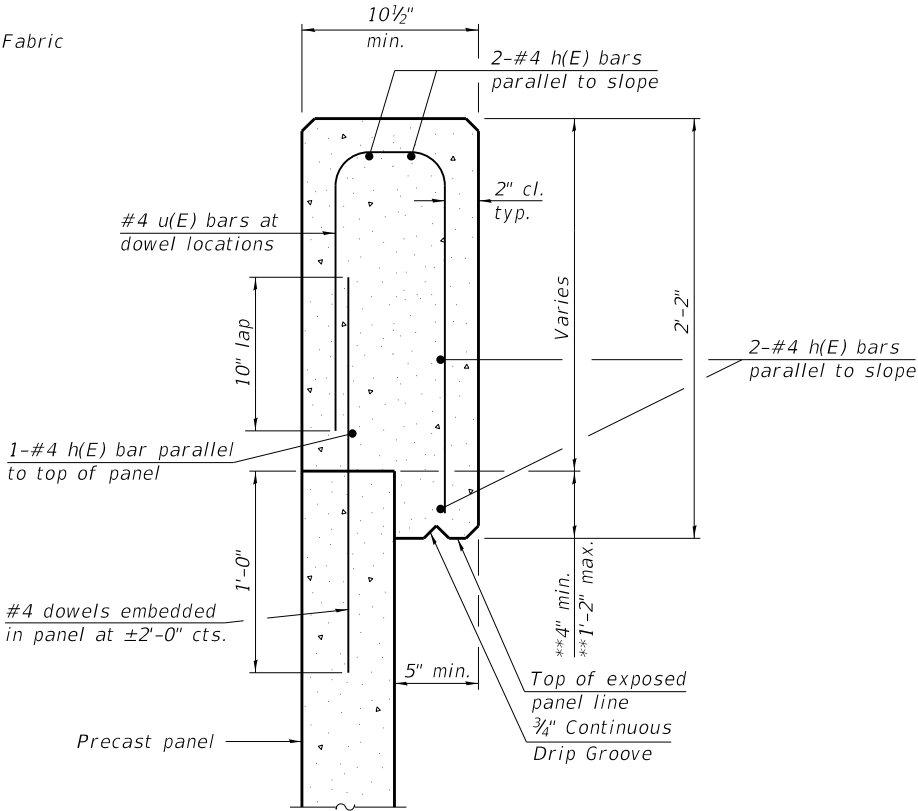


PIPE UNDERDRAIN DETAIL

* Included in cost for Pipe Underdrains for Structures 4"

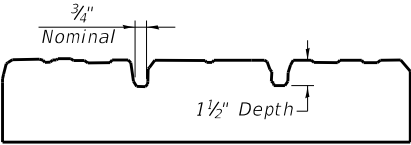
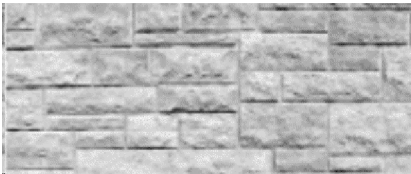


SECTION THRU REMOVAL OF STRUCTURE

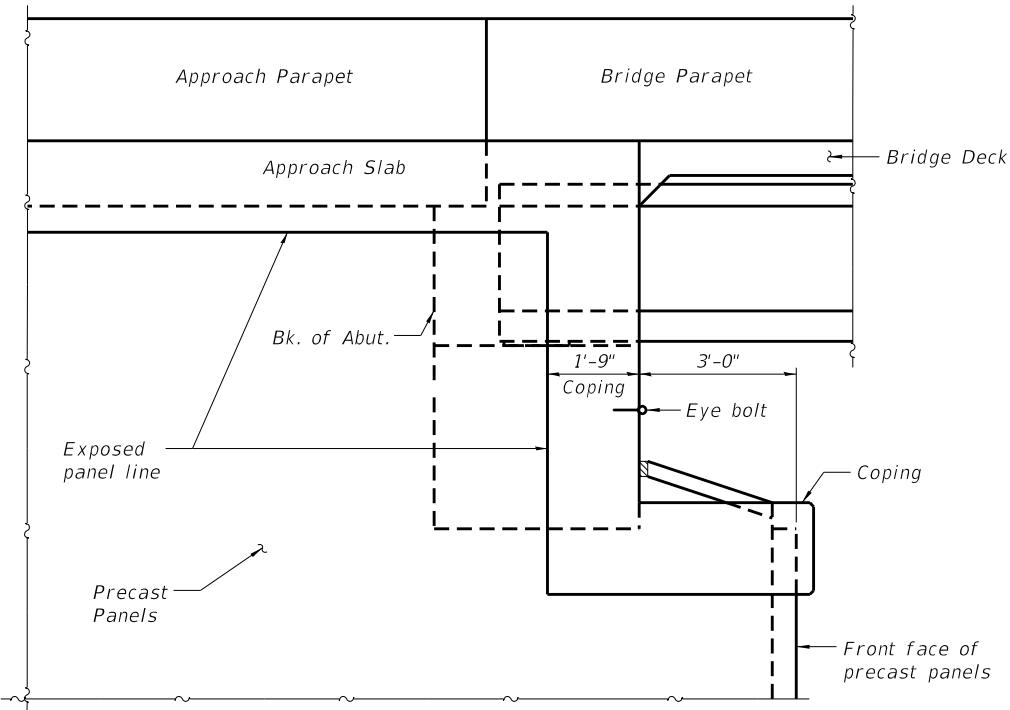


TYPICAL SECTION THRU COPING

** Limits of Bond breaker membrane between front of panel and overhang.



FORM LINER TEXTURED DETAIL



ABUTMENT END VIEW

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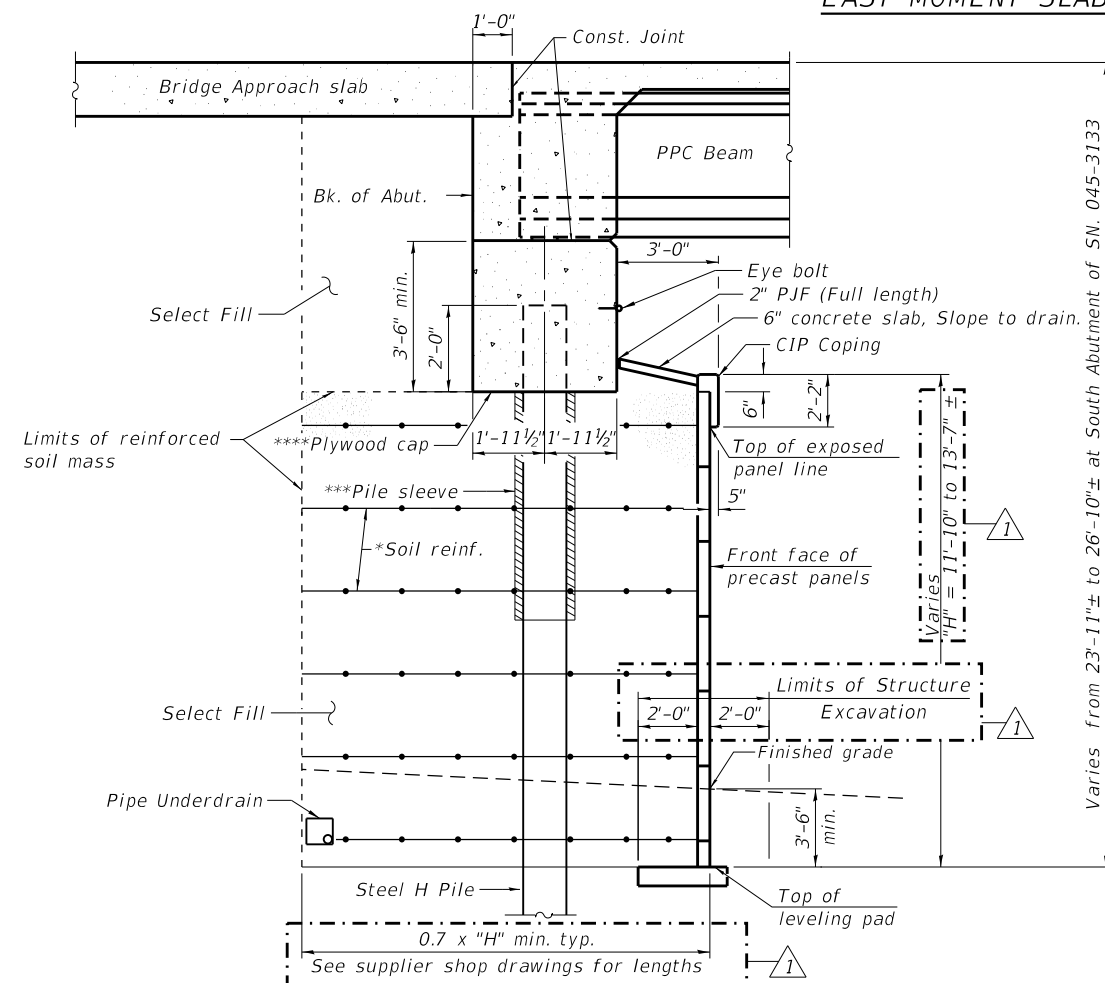
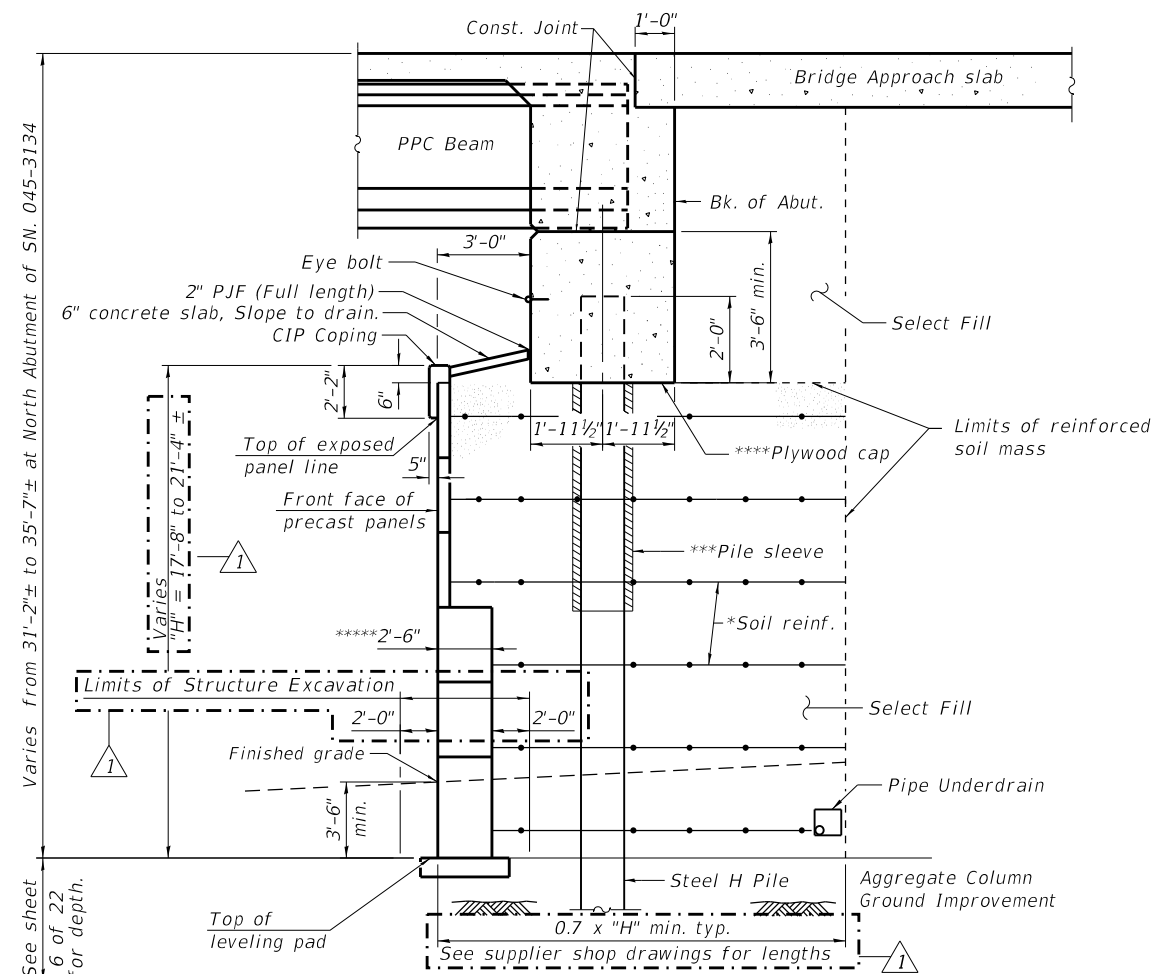
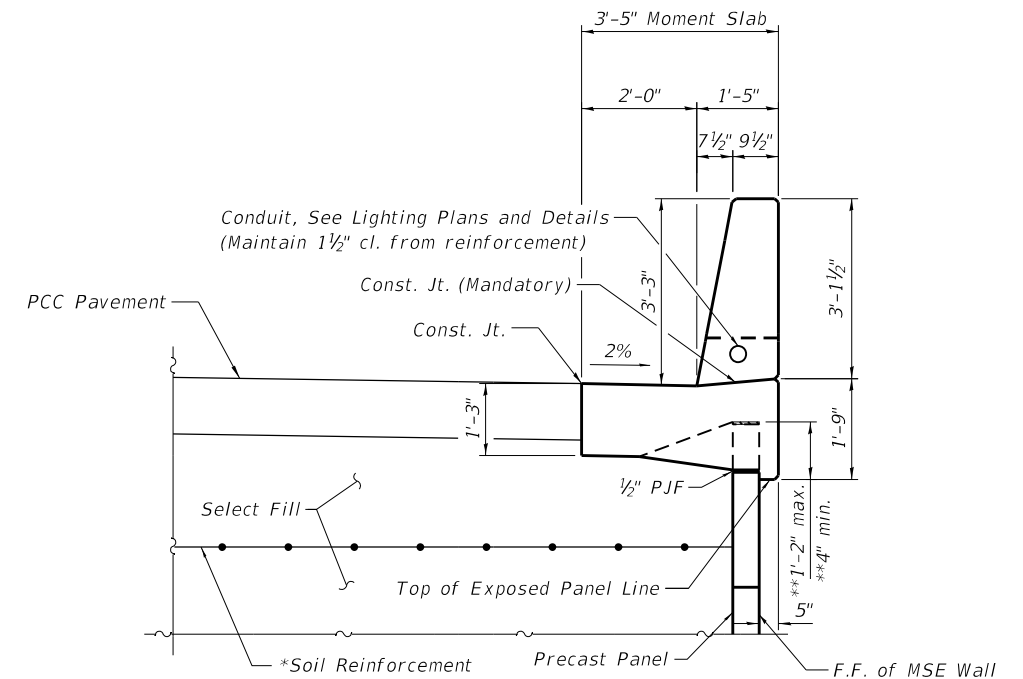
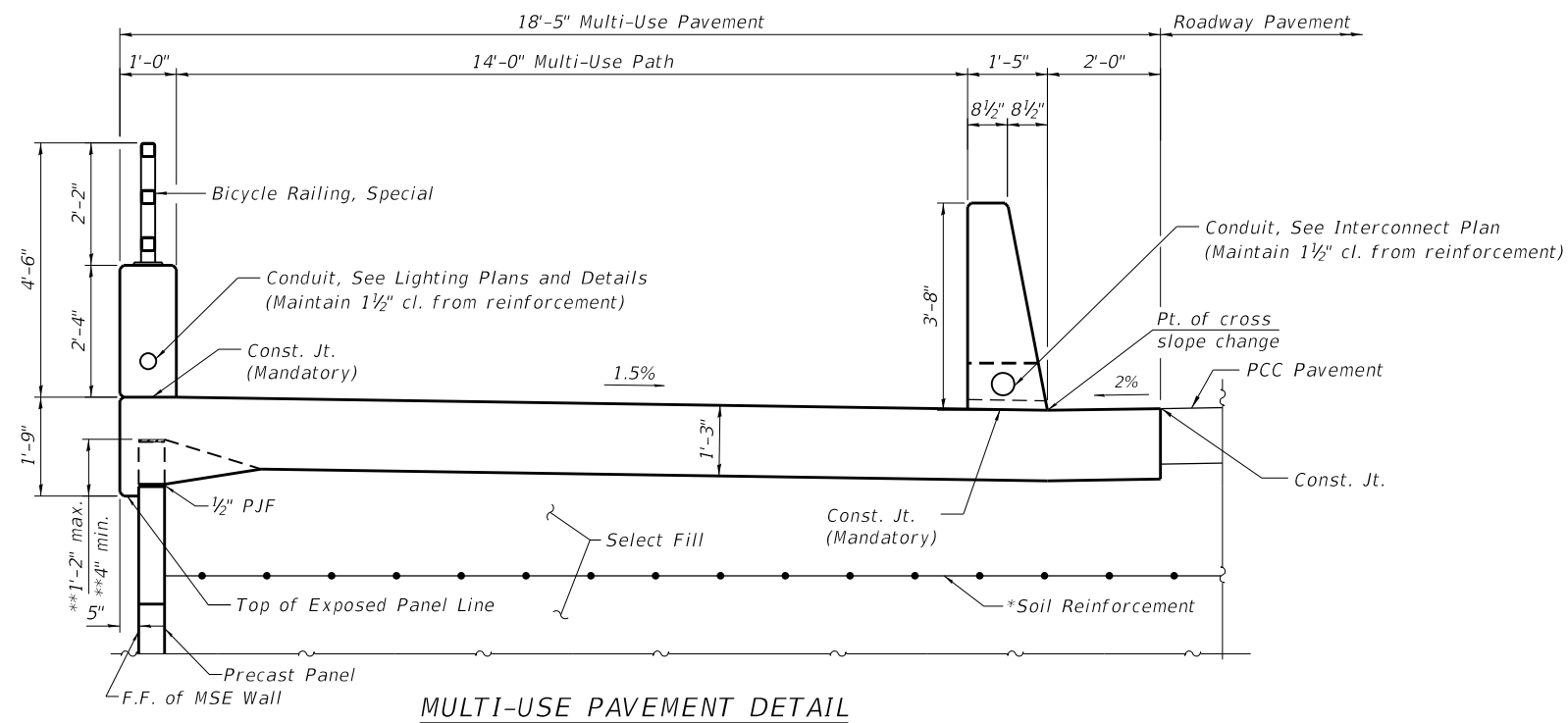
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
MSE WALL 03

SHEET 2 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	384
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				



* The MSE wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0. The upper layer of soil reinforcement shall be designed with an additional impact rupture loading of 2,300 lb./ft. of wall and an additional impact pullout loading of 1,300 lb./ft. of wall. The second layer of soil reinforcement shall be designed with an additional impact rupture loading of 600 lb./ft. and an additional impact pullout loading of 600 lb./ft.

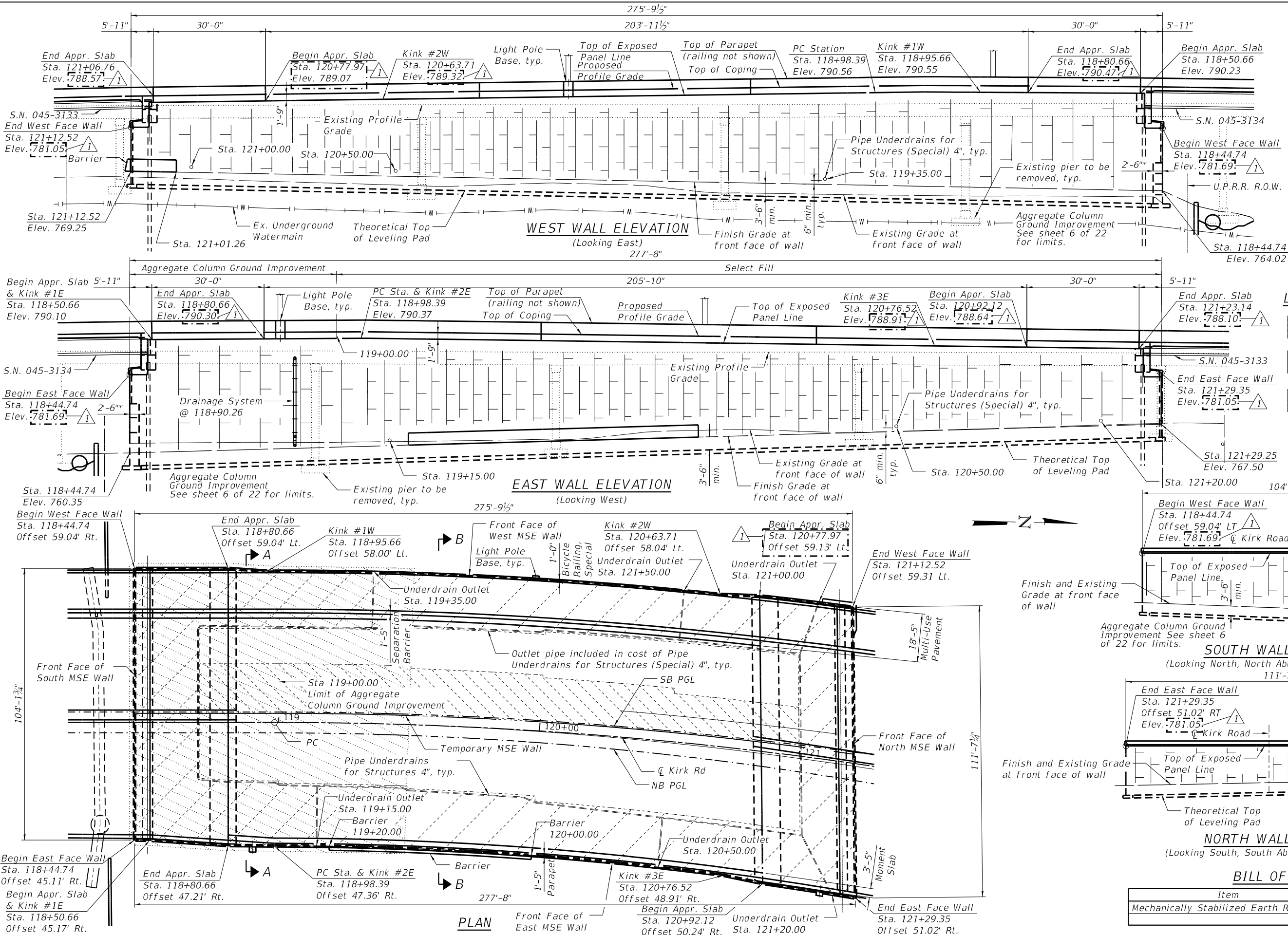
*** Limits of Bond breaker membrane between front of panel and overhang..*

*** Sleeve to remain empty in hatched region.

*** Bottom of cap poured against top of plywood. Cut opening to match pile perimeter within $\frac{1}{8}$ ". Support with bars tack welded to webs rated for 500 lbs. Seal gaps to keep concrete out.

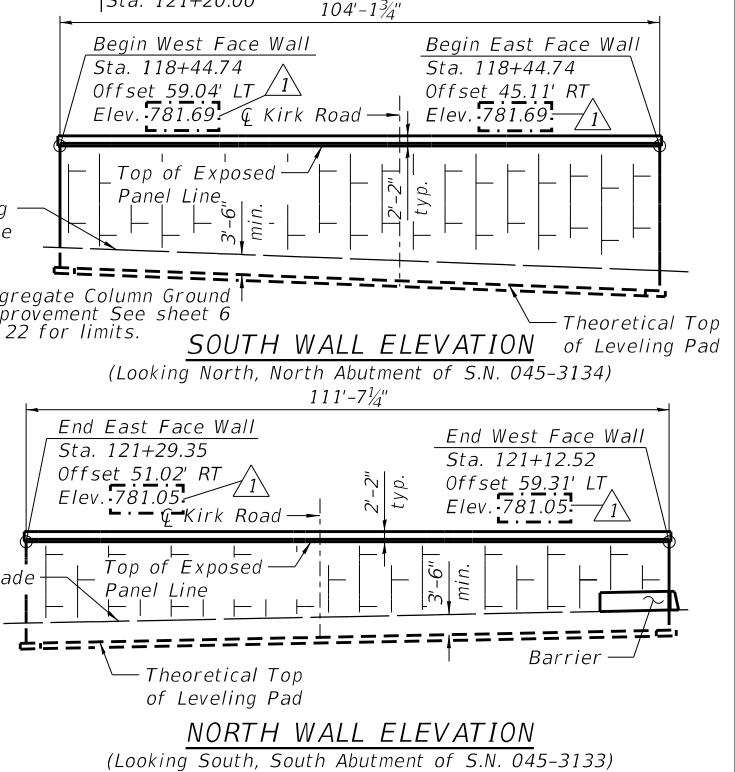
***** MSE Panels within 50'-0" of Railroad
main track lines 1, 2 & 3 shall be 2'-6" thick
for a height of at least 12'-0" above top of
rail. Applies only to Wall at North Abutment
of S.N. 045-3134.

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Notes:
Wall Station and offsets are measured from the C of Kirk Rd. to the front face of precast panels.
Wall dimensions are measure along the front face of wall.
For Sections A-A and B-B, see Sheet 7 of 22.
The MSE wall supplier is alerted to the fact that settlement is anticipated from Stations 118+44.74 to 119+00.00 and shall take appropriate measures to accommodate this settlement in the wall design
*MSE Panels within 50'-0" of Rail Road main track lines 1, 2 & 3 shall be 2'-6" thick up to a height 12'-0" above top of rail.

- LEGEND**
- Approximate Limits of Reinforced Soil Mass
 - Approximate Limits of Reinforced Soil Mass for Temporary Wall
 - Approximate Limits of Aggregate Column Ground Improvement



BILL OF MATERIAL

Item	Unit	Total
Mechanically Stabilized Earth Retaining Wall	Sq Ft	19,196



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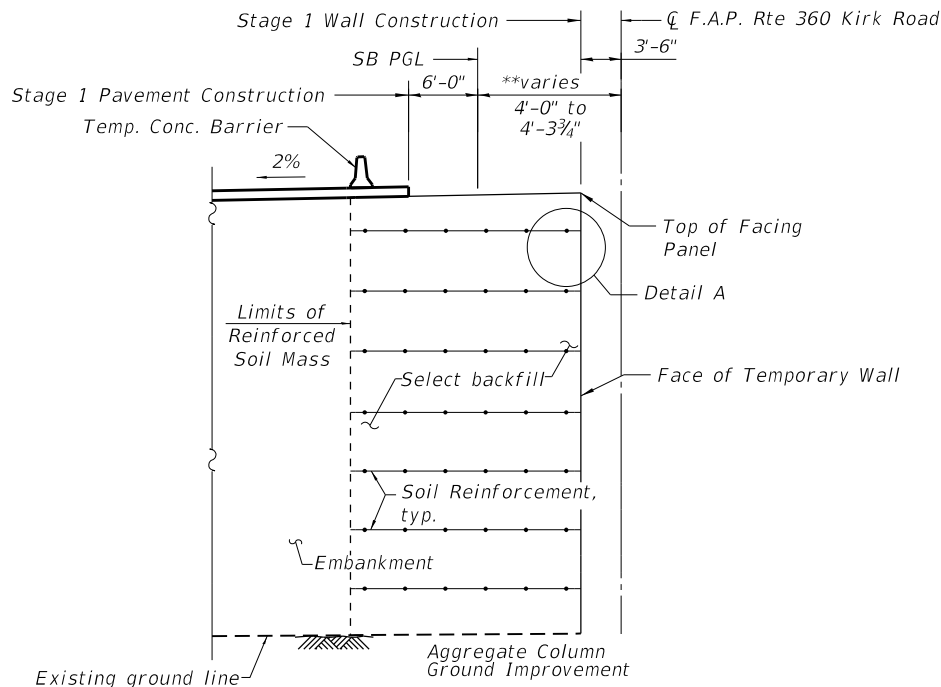
WALL PLAN & ELEVATIONS
MSE WALL 03
SHEET 5 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	387
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

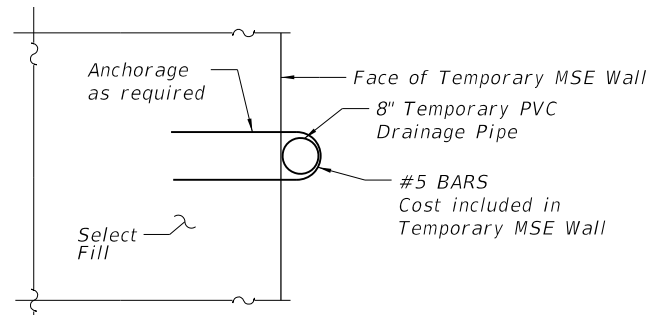
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BILL OF MATERIAL

Item	Unit	Total
Aggregate Column Ground Improvement	L Sum	1



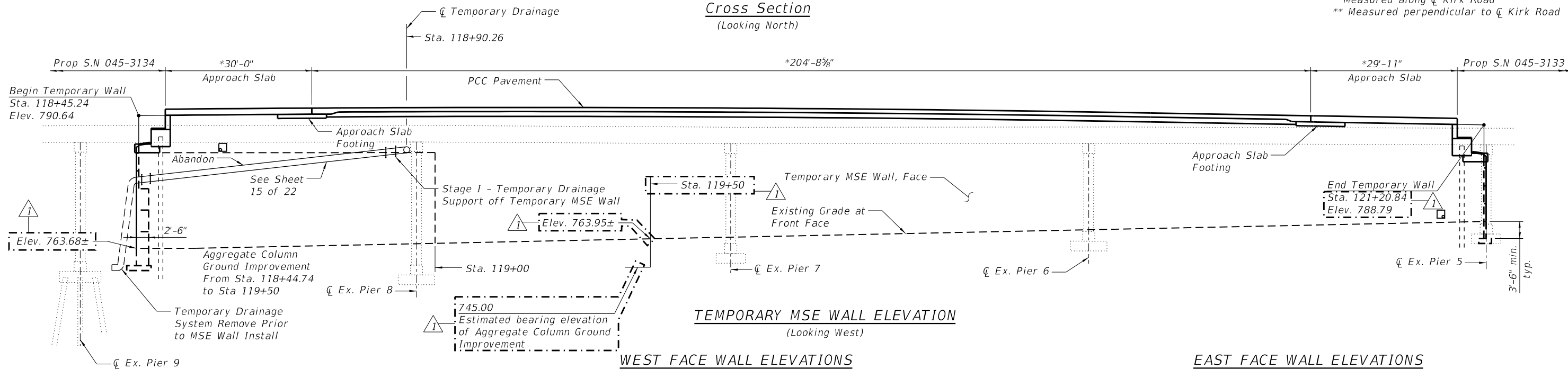
Cross Section
(Looking North)



DETAIL A

Notes:
See Geotechnical Letter by Wang Engineering dated May 6, 2026 for Aggregate Ground Improvement recommendations.

* Measured along $\bar{C}$ Kirk Road
** Measured perpendicular to $\bar{C}$ Kirk Road



TEMPORARY MSE WALL ELEVATION
(Looking West)

WEST FACE WALL ELEVATIONS

Location	Station	Offset	T/Exposed Panel Elevation	Finish Grade Elevation	Exposed Wall Height
Begin West Face Wall	118+44.74	59.04 Lt.	781.69	764.02	17'-8"
B/ Vertical Exposed Panel Line	118+49.49	59.04 Lt.	781.69	764.11	17'-7"
T/ Vertical Exposed Panel Line	118+49.49	59.04 Lt.	790.22	764.11	26'-1"
Begin Appr. Slab	118+50.66	59.04 Lt.	790.23	764.14	26'-1"
End Appr. Slab	118+80.66	59.04 Lt.	790.47	764.72	25'-9"
Kink #1W	118+95.66	58.00 Lt.	790.55	765.01	25'-6"
PC Station	118+98.39	58.00 Lt.	790.56	765.07	25'-6"
Kink #2W	120+63.71	58.04 Lt.	789.32	768.30	21'-0"
Begin Appr. Slab	120+77.97	59.13 Lt.	789.07	768.58	20'-6"
End Appr. Slab	121+06.76	59.27 Lt.	788.57	769.14	19'-5"
T/ Vertical Exposed Panel Line	121+07.77	59.31 Lt.	788.56	769.16	19'-5"
B/ Vertical Exposed Panel Line	121+07.77	59.31 Lt.	781.05	769.16	11'-11"
End West Face Wall	121+12.52	59.31 Lt.	781.05	769.25	11'-10"

EAST FACE WALL ELEVATIONS

Location	Station	Offset	T/Exposed Panel Elevation	Finish Grade Elevation	Exposed Wall Height
Begin East Face Wall	118+44.74	45.11 Rt.	781.69	760.35	21'-4"
B/ Vertical Exposed Panel Line	118+49.49	45.11 Rt.	781.69	760.47	21'-3"
T/ Vertical Exposed Panel Line	118+49.49	45.11 Rt.	790.09	760.47	29'-7"
Begin Appr. Slab & Kink #1E	118+50.66	45.17 Rt.	790.10	760.50	29'-7"
End Appr. Slab	118+80.66	47.21 Rt.	790.30	761.25	29'-1"
PC Station & Kink #2E	118+98.39	47.36 Rt.	790.37	761.70	28'-8"
Kink #3E	120+76.52	48.91 Rt.	788.91	766.17	22'-9"
Begin Appr. Slab	120+92.12	50.24 Rt.	788.64	766.56	22'-1"
End Appr. Slab	121+23.14	50.88 Rt.	788.10	767.34	20'-9"
T/ Vertical Exposed Panel Line	121+24.60	51.02 Rt.	788.07	767.38	20'-8"
B/ Vertical Exposed Panel Line	121+24.60	51.02 Rt.	781.05	767.38	13'-8"
End East Face Wall	121+29.35	51.02 Rt.	781.05	767.50	13'-7"

TEMPORARY MSE WALL ELEVATIONS

Station	Offset	T/Exposed Panel Elevation	Existing Grade Elevation	Exposed Wall Height
118+45.24	3.50 Lt.	790.64	763.39	27'-3"
119+00.00	3.50 Lt.	791.03	764.09	26'-11"
119+50.00	3.50 Lt.	791.03	764.81	26'-3"
120+00.00	3.50 Lt.	790.68	766.44	24'-3"
120+50.00	3.50 Lt.	790.00	767.05	22'-11"
121+00.00	3.50 Lt.	789.15	768.54	20'-7"
121+20.84	3.50 Lt.	788.79	768.93	19'-10"



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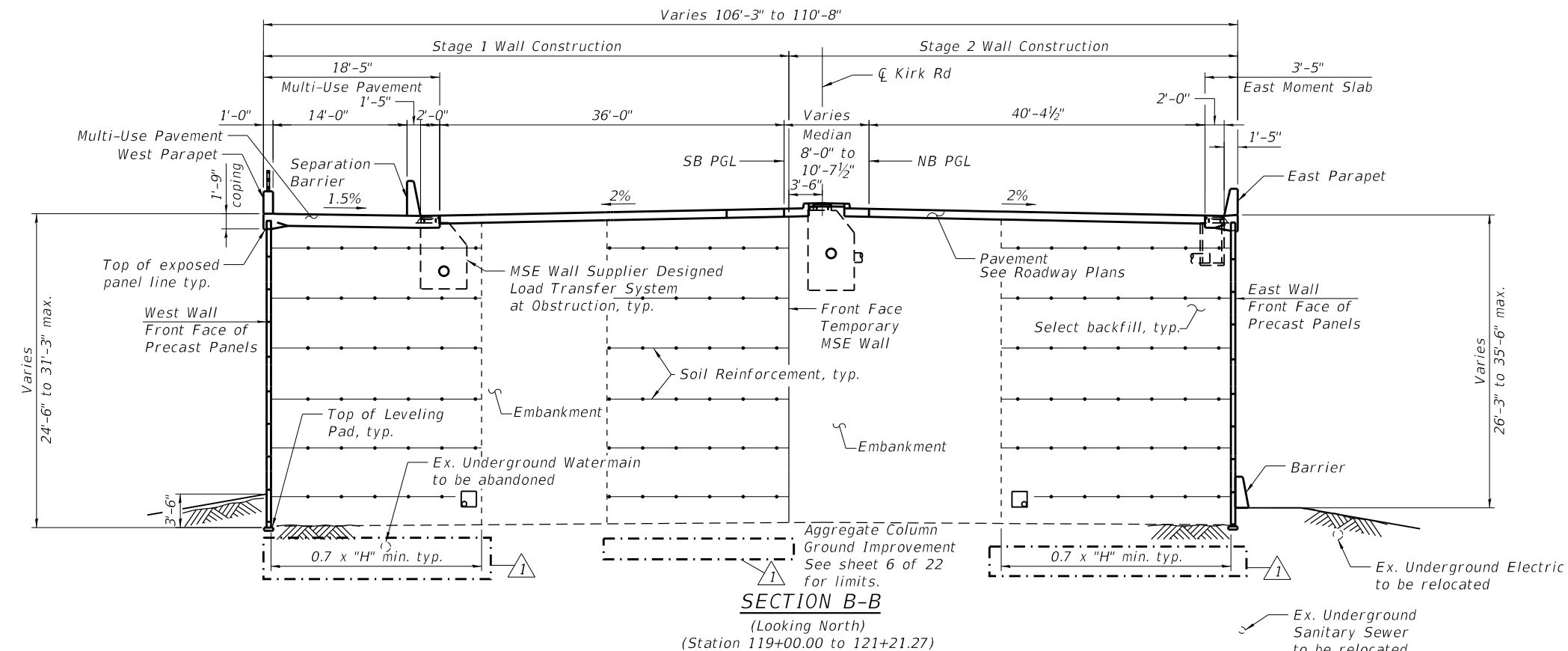
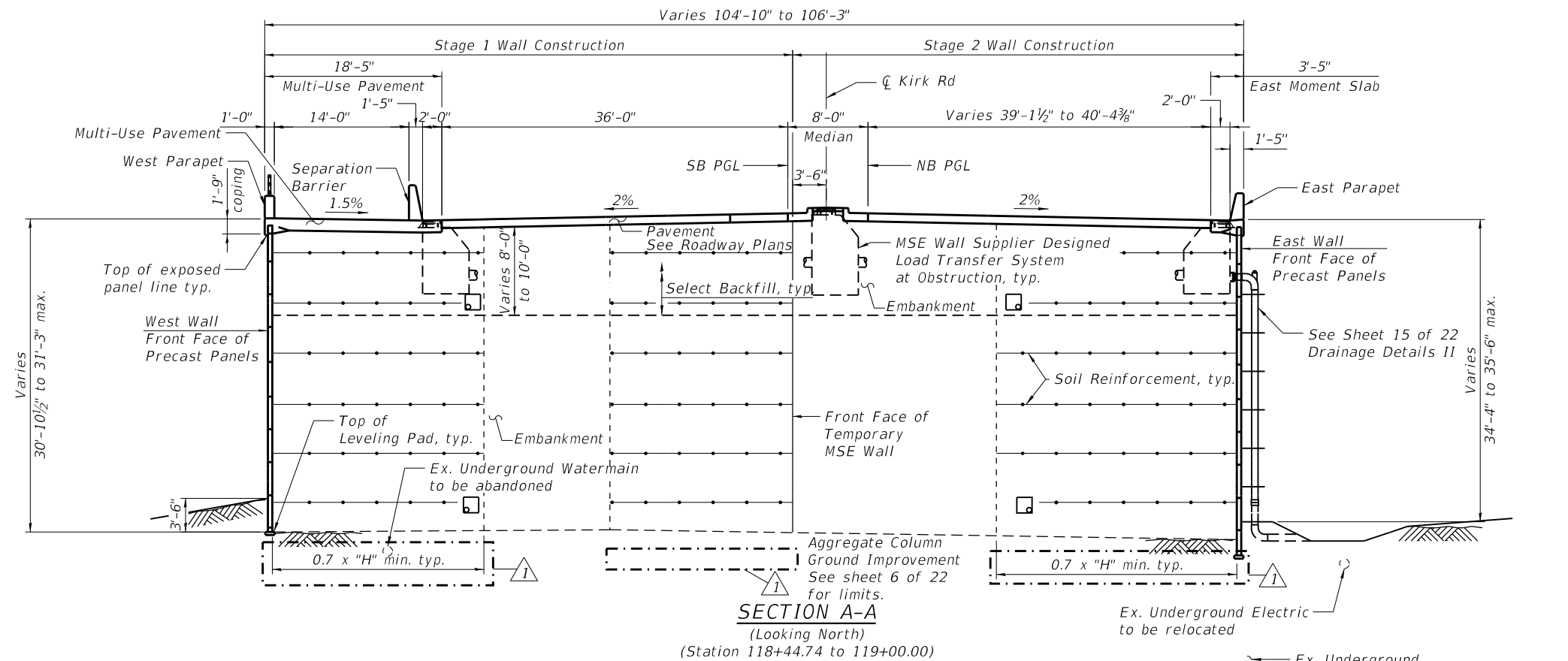
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY WALL ELEVATION
MSE WALL 03

SHEET 6 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	388
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

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Temporary Easement Limits

Temporary Easement Limits



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
MSE WALL 03

SHEET 7 OF 22 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	389
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

Bench Mark: Chiseled square in top of parapet wall located at the southwest corner of existing bridge, S.N. 045-3096 at Sta. 111+08.40 Offset 30.19' LT. Elev. 782.00.

Existing Structure: S.N. 045-3096 originally constructed in 1974 as FAS Route 1100, Section 192-3VB (Kirk Road). It was repaired in 1977, 1987, 1990, 1998, 2003, 2013, and 2021. It underwent a rehabilitation in 2001. The existing superstructure is 18 span continuous, separated into 4 units, with 7½" deck and non-composite wide flange beams. Back to back of abutments is 1,376'-2" and Out-to-Out width is 62'-0". Existing substructure contains two concrete reinforced spill through abutments on piles and 17 piers; with piers 1 to 8 and 17 on spread footings, and piers 9 to 16 on piles. Traffic to be maintained using stage construction

Salvage: No Salvage.

Begin Wall at Top of Exposed Panel Line
Sta. 121+98.70, Elev. 779.65 (EW)
Sta. 121+76.59, Elev. 779.65 (WW)

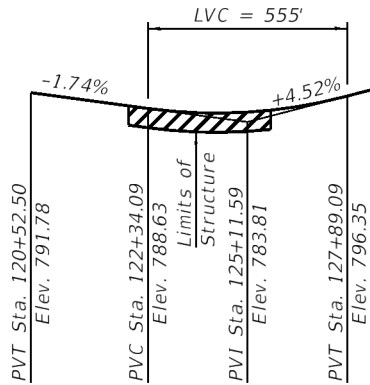
* Contractor to verify depth.
(See roadway plans)

LEGEND

- Soil Boring
- Approximate Limits of Reinforced Soil Mass
- Approximate Limits of Reinforced Soil Mass for Temporary Wall
- Approximate Limits of Removal and Disposal of Unsuitable Material for Structures

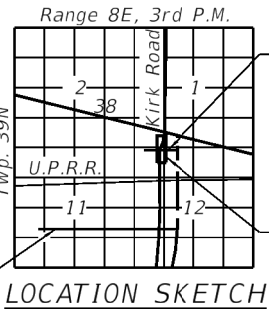
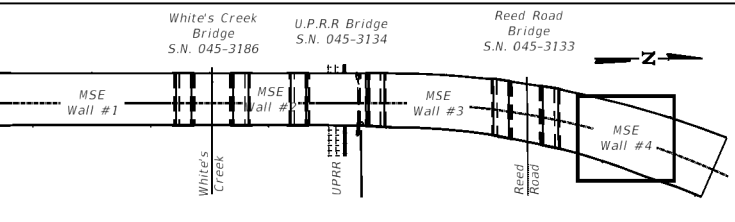
CURVE DATA

P.T. Sta. = 122+41.65
Δ = 24°35'23" (RT)
D = 3°38'16"
R = 1,575.00'
T = 343.26'
L = 675.95'
E = 36.97'
P.C. Sta. = 118+98.39
P.T. Sta. = 125+74.34



PROFILE GRADE
(along N.B. & S.B. PGL)

Notes:
Wall Station and offsets are measured from the C of F.A.P. Rte. 360 to the front face of precast panels.



DESIGN SPECIFICATIONS
2024 AASHTO LRFD Bridge Design
Specifications, 10th Edition

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Moment Slab & Parapets)
f'c = 3,500 psi (All Other Retaining Wall Concrete)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 4,500 psi (Precast Panels)

GENERAL PLAN AND ELEVATION
KIRK ROAD

F.A.P. RTE. 360 SEC. 12-00192-04-BR

KANE COUNTY

STA. 121+76.54 to STA. 125+42.18

MSE WALL 04



USER NAME	DESIGNED - ES	REVISED - 7/24/2026 PRD
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
MSE WALL 04

SHEET 1 OF 19 SHEETS

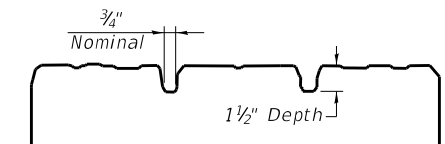
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	405
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

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Reinforcement bars designated (E) shall be epoxy coated.
Slipforming of the parapets is not allowed.
A protective coat shall be applied to the top and inside faces of the parapets, separation barrier, multi-use path, and shoulders.
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions in the field.
Wall Stations and Offsets are given to the Front Face (FF) of the wall and are measured from centerline of Kirk Road.
Wall is built in conjunction with new bridge S.N 045-3186 and S.N 045-3134. Piles are installed prior to the construction of wall.
Horizontal dimensions measured along front face of precast panels.
Utilities shall be relocated by others.

1. *General Plan and Elevation*
2. *General Data*
3. *Typical Details*
4. *Stage I & II Construction*
5. *Wall Plan & Elevations*
6. *Temporary Wall Elevation*
7. *Typical Sections*
8. *Moment Slab Plan and Elevation I*
9. *Moment Slab Plan and Elevation II*
10. *Moment Slab Plan and Elevation III*
11. *Moment Slab Plan and Elevation IV*
12. *Moment Slab Sections and Details*
13. *Moment Slab and Light Pole Details*
14. *Drainage Details*
15. *Railing Details*
16. *Boring Logs I*
17. *Boring Logs II*
18. *Boring Logs III*
19. *Boring Logs IV*

Item	Unit	Total
Geotechnical Fabric For Ground Stabilization	Sq Yd	1,367
Aggregate Subgrade Improvement	Cu Yd	9,875
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	9,875
Concrete Structures	Cu Yd	487.1
Form Liner Textured Surface	Sq Ft	9,427
Protective Coat	Sq Yd	1,244
Reinforcement Bars, Epoxy Coated	Pound	65,810
Mechanically Stabilized Earth Retaining Wall	Sq Ft	9,094
Temporary Mechanically Stabilized Earth Retaining Wall	Sq Ft	5,191
Pipe Underdrains For Structures 4"	Foot	789
Staining Concrete Structures	Sq Ft	10,335
Bicycle Railing, Special	Foot	346



1'-4"

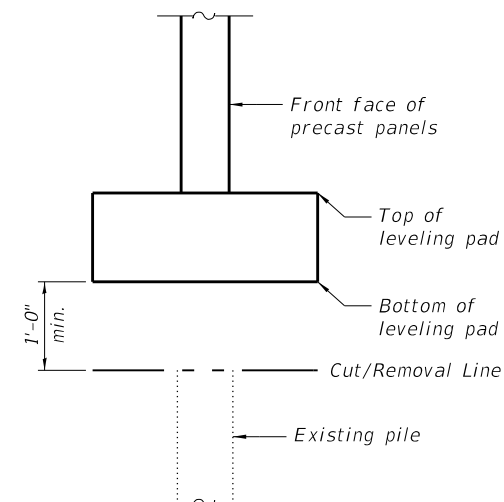
Overlap geotechnical fabric by 12" min.

* Geotechnical Filter Fabric for French Drains

*Drainage Aggregate

Perforated Pipe Underdrains for Structures 4"

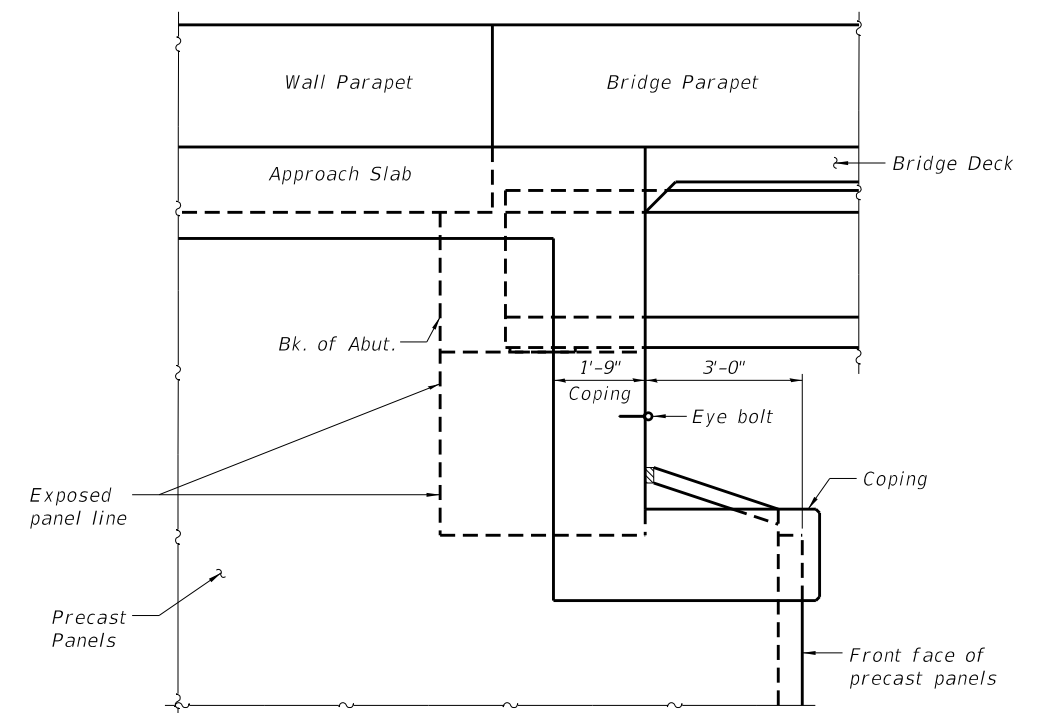
* Included in cost for Pipe Underdrains for Structures 4"



Technical drawing of a parapet wall cross-section showing reinforcement details. The drawing includes the following annotations:

- Top Reinforcement:** 2-#4 h(E) bars parallel to slope.
- Top Width:** $10\frac{1}{2}$ " min.
- Top Edge Detail:** 2" cl. typ.
- Internal Reinforcement:** #4 u(E) bars at dowel locations.
- Lap Length:** 10" lap.
- Bottom Reinforcement:** 1-#4 h(E) bar parallel to top of panel.
- Dowel Detail:** #4 dowels embedded in panel at $\pm 2'-0"$ cts.
- Panel Height:** 1'-0".
- Base Detail:** 5" min.
- Variable Height:** Varies (indicated by a vertical dimension line).
- Right Side Reinforcement:** 2-#4 h(E) bars parallel to slope.
- Bottom Edge Detail:** 4" min. and 1'-2" max. (indicated by a vertical dimension line).
- Labels:** Top of exposed panel line, 3/4" Continuous, Drip Groove.
- Material:** Precast panel.

** Limits of Bond breaker membrane between front of panel and overhang.



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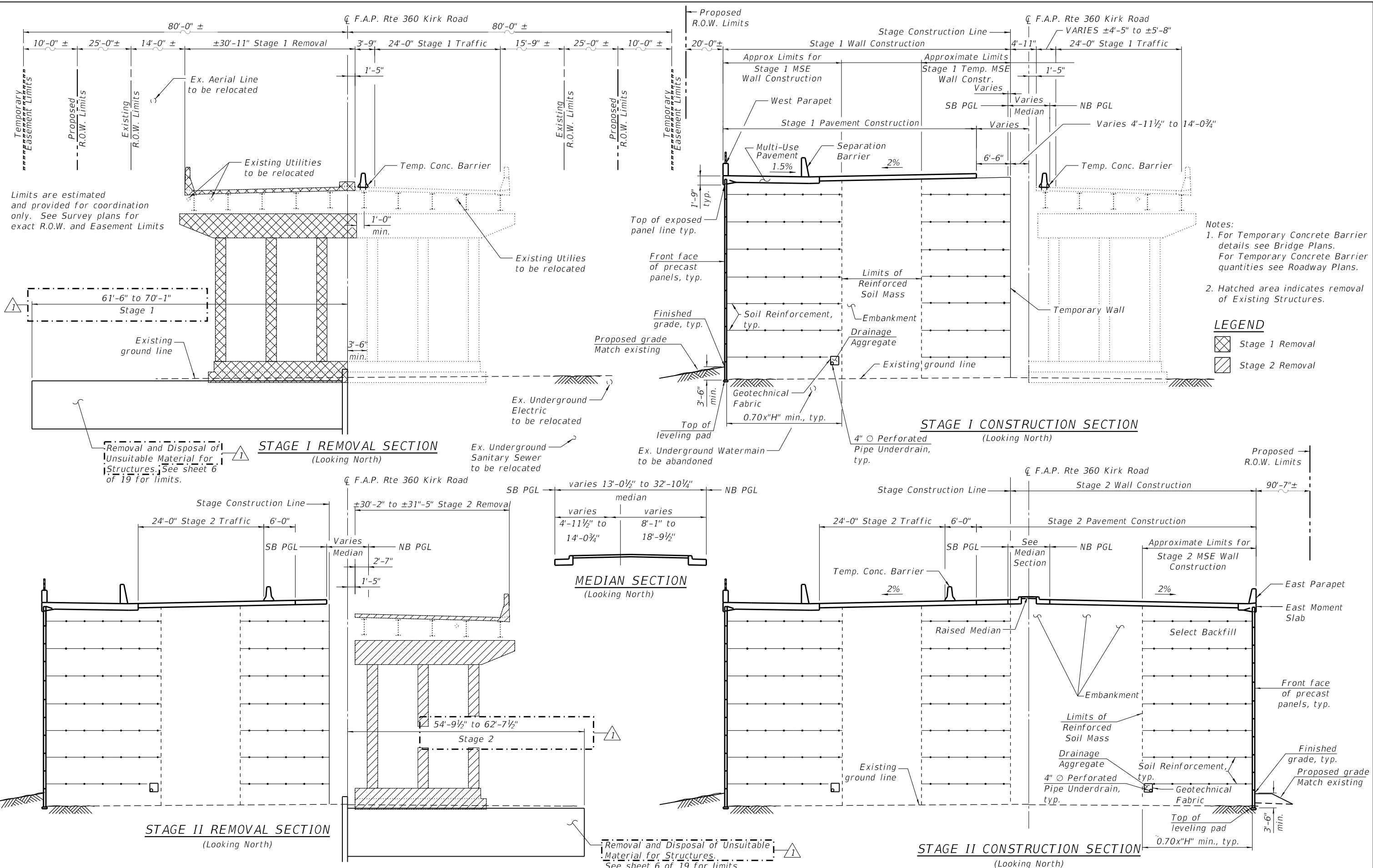
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL DATA
MSE WALL 04

SHEET 2 OF 19 SHEETS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	406
		CONTRACT NO. 61M13		
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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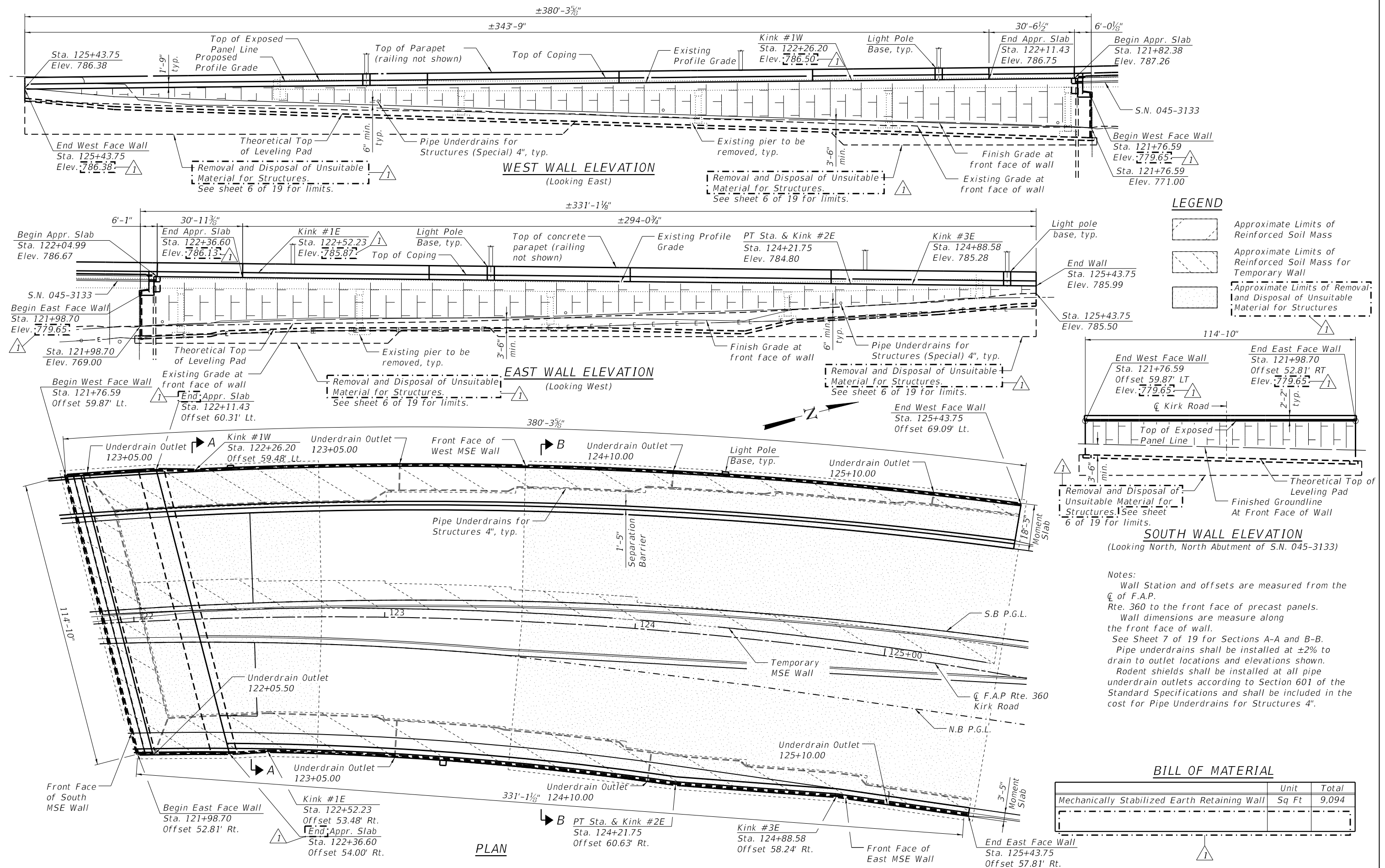
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I & II CONSTRUCTION
MSE WALL 04
SHEET 4 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	408
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				

MODEL: Main View
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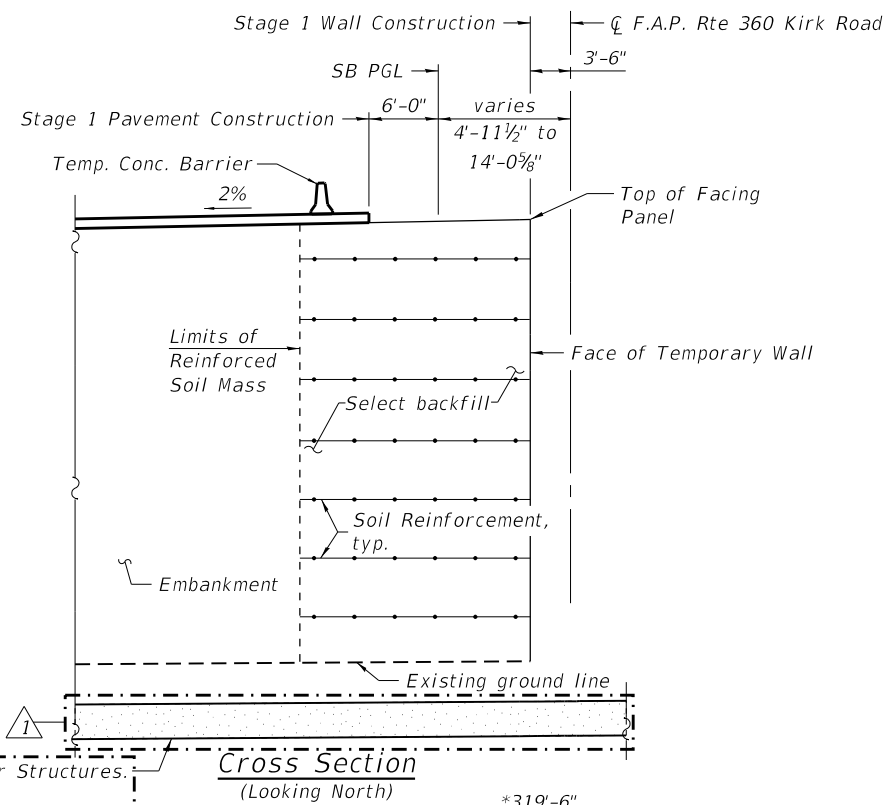
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PLOT DATE =	DRAWN - ES	REVISED -
	CHECKED - PRD	REVISED -

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WALL PLAN & ELEVATIONS
MSE WALL 04

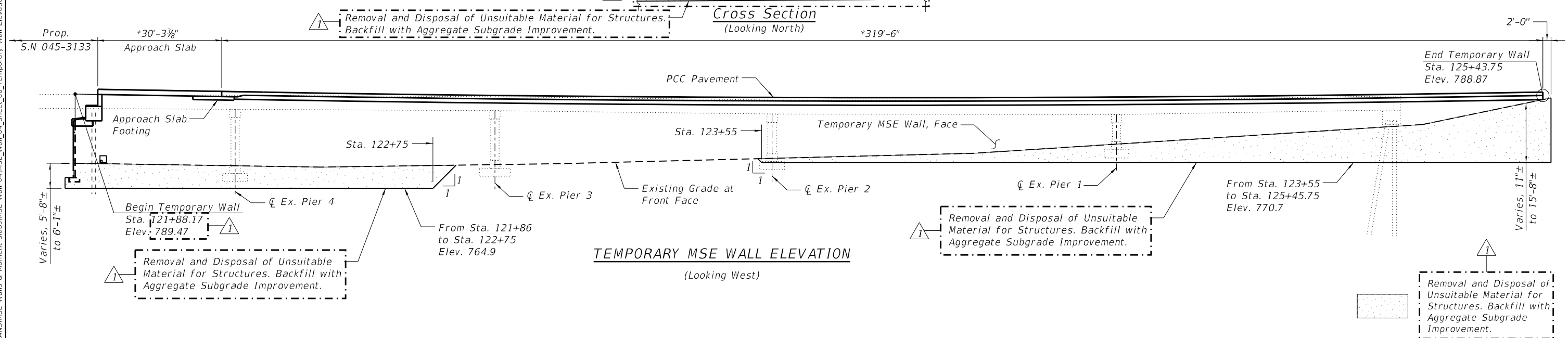
SHEET 5 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				



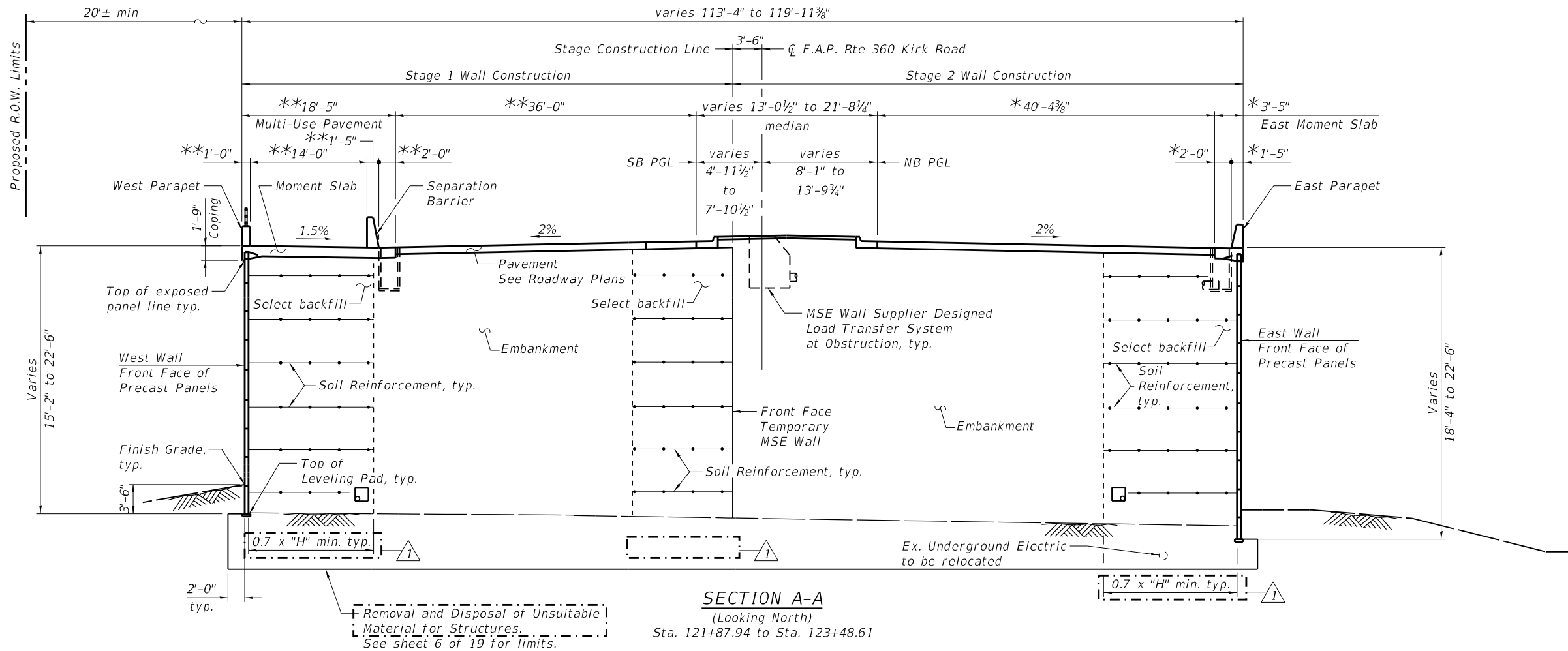
<u>BILL OF MATERIAL</u>		
	<i>Unit</i>	<i>Total</i>
<i>Aggregate Subgrade Improvement</i>	<i>Cu Yd</i>	<i>9,875</i>
<i>Removal and Disposal of Unsuitable Material for Structures</i>	<i>Cu Yd</i>	<i>9,875</i>

* Measured along $\angle$ Kirk Road
** Measured perpendicular to $\angle$ Kirk Road



MODEL: Default
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Temporary Easement Limits



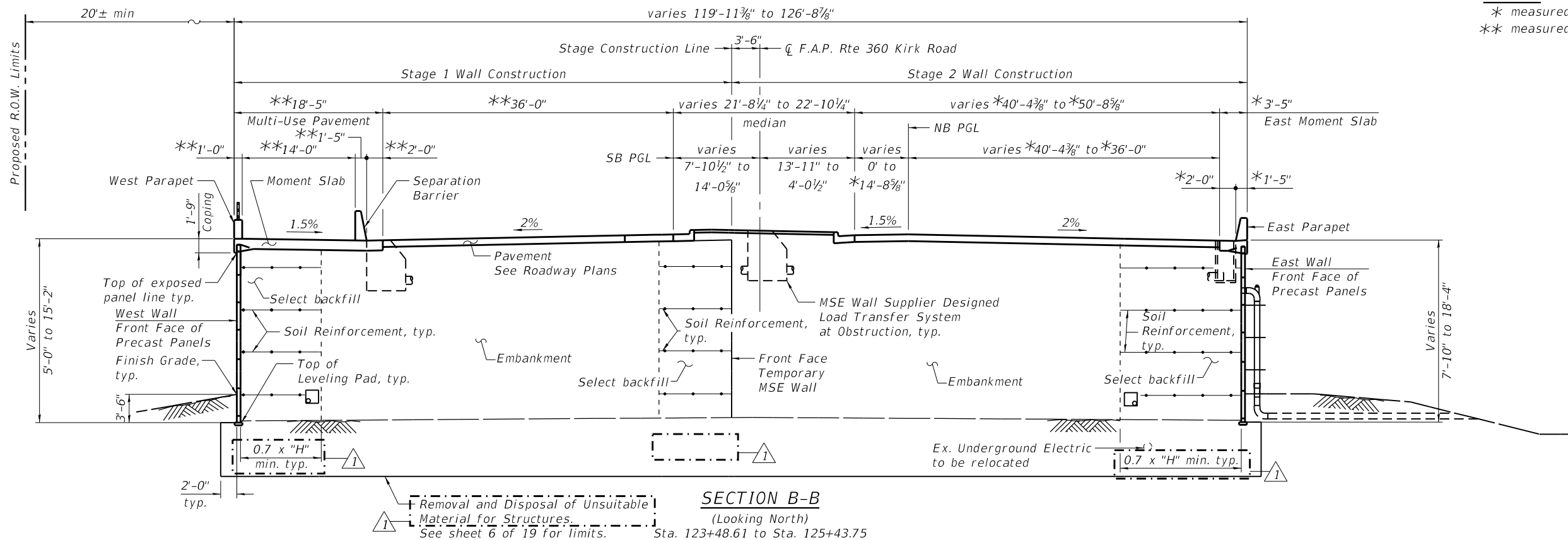
SECTION A-A

(Looking North)
Sta. 121+87.94 to Sta. 123+48.61

NOTES

- * measured perpendicular to NB PGL
- ** measured perpendicular to SB PGL

Temporary Easement Limits



SECTION B-B

(Looking North)
Sta. 123+48.61 to Sta. 125+43.75



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TYPICAL SECTIONS
MSE WALL 04

SHEET 7 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
360	12-00192-04-BR	KANE	518	411
CONTRACT NO. 61M13				
ILLINOIS FED. AID PROJECT				