

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
201-21.00	Cleaning and Grubbing	1	L.S.
202-20.10	Removal of Improvements	1	L.S.
202-20.13	Full Depth Saw Cut	761	L.F.
202-22.30	Removal of Rigid Pavement	2,527	S.Y.
202-24.90	Removal of Curb and Gutter	1,099	L.F.
203-10.00	Class A Excavation	17,884	C.Y.
203-35.00	Embankment in Place	14,700	C.Y.
310-20.01	Crushed Stone (6)	55	C.T.
310-20.03	Type 1 Aggregate For Base (4 in. Thick)	16,302	S.Y.
301-20.00	Mineral Aggregate (Blum. Base) PG 64-22	303.8	TON
301-60.17	Asphalt Binder (Blum. Base) PG 64-22	14.0	TON
401-10.10	Asphalt Binder (Blum. Prim) PG 64-22 (SP-1 Mix)	4.4	TON
401-20.10	Mineral Aggregate (Blum. Base) PG 64-22 (SP-1 Mix)	74.2	TON
401-99.10	Temporary Asphalt Pavement	2581	TON
402-10.05	Top Enriched Asphalt 95-10	70	DM
502-1.06	Concrete Pavement (6-inch non-reinforced)	143.5	S.Y.
502-11.08	Concrete Pavement (8-inch non-reinforced)	15,872	S.Y.
603-10.00	Resrete Water Service	19	EA
604-20.13	Adjust Manhole to Grade	4	EA
604-20.11	Ripa Color, Type A	1	EA
608-10.10	Guardrail Type A	282.5	L.F.
608-22.04	Bridge Anchor Details (Safety Barrier Curb)	4	EA
608-23.00	Transition Section, 8 Ft. Posts	4	EA
608-20.18	Type A Crosswalk End Terminal	4	EA
607-99.01	Security Gate	1	L.S.
608-09.03	Concrete Median	38.4	S.Y.
608-50.06	Paved Approach, 6 in.	580.1	S.Y.
608-50.07	Paved Approach, 7 in.	634.2	S.Y.
608-10.04	Concrete Basecoat - 4-inch	6,341.2	S.Y.
609-10.90	Paved Edge	365.8	S.Y.
609-20.99	Integral Curb - 6-inch	12,203	L.F.
611-30.99	Furnishing Type 2 Rock Barriest	168.9	S.Y.
611-30.90	Furnishing Type 2 Rock Barriest	156.9	S.Y.
611-30.50	Heavy Stone Revestment	3,708.3	S.Y.
614-39.88	Single Curb Inset	25	EA
614-39.97	Double Curb Inset	14	EA
614-39.98	Area Inlet	1	EA
614-39.99	Manhole	9	EA
615-10.05	Chaparral Sign	340	S.F.
615-10.38	Traffic Control	1	L.S.
617-36.00	Contractor Furnished/Retained Temporary Type F Concrete Traffic Barrier	1,511	L.F.
618-10.00	Maklepoint	1	L.S.
620-60.80A	Type 1 Prefabricated Removable Marking Type 4 in. yellow	8,842	L.F.
620-60.80B	4 in. Solid White Waterborne Paint	4,928	L.F.
620-60.81A	4 in. Solid Yellow Waterborne Paint	22,051	L.F.
620-60.81B	4 in. Intermediate Yellow Waterborne Paint	12,641	L.F.
620-61.01	Pavement Marking Point, Left Arrow (White)	74	EA
620-61.02	Pavement Marking Point, Right Arrow (White)	7	EA
620-61.04	Pavement Marking Point, Straight-Left Arrow (White)	2	EA
620-61.06	Waterborne Paint, 5 in. Wide (White)	914	L.F.
620-61.08	Waterborne Paint, 8 in. Wide (White)	184	L.F.
620-61.20	Waterborne Paint, 5 in. Wide (Yellow)	7	L.F.
620-61.24	Waterborne Paint, 24 in. Wide (White)	103	L.F.
624-01.03	Decorative Fabric, Type 3	3,885.2	S.Y.
703-21.09	Class B Concrete (Retaining Walls)	470.9	C.Y.

ITEM	DESCRIPTION	QUANTITY	UNIT
703-39.04	Modular Block Wall	2,713	S.F.
726-13.12	12-inch Class II RCP Culvert	2,799	L.F.
726-13.15	15-inch Class II RCP Culvert	1,211	L.F.
726-13.18	18-inch Class II RCP Culvert	463	L.F.
726-13.21	21-inch Class II RCP Culvert	109	L.F.
726-13.24	24-inch Class II RCP Culvert	53	L.F.
726-99.03	8-inch PVC	255	L.F.
731-99.02	Yard Drain	5	EA
732-06.12	12-inch Flared End Section	1	EA
732-06.18	18-inch Flared End Section	3	EA
732-06.21	21-inch Flared End Section	1	EA
732-06.24	24-inch Flared End Section	1	EA
733-99.03	6" x 5" Box Culvert	89	L.F.
734-99.01	Junction chamber	1	L.S.
802-30.00	Type 3 Main	1.7	Acra
803-10.00	Seeding	12,250	S.Y.
805-10.00	Seeding	1.7	Acra
805-10.19	Silt Fence	4,859	L.F.
806-10.20	Temporary Fice	306	L.F.
806-10.21	Type I Check Cloth	28	EA
806-99.03	8" Dia Biotester Fibrelog	130	L.F.
806-99.04	12" Dia Biotester Fibrelog	110	L.F.
806-99.05	Openend Friction Control Blower	480	S.Y.
808-01.11	Shingle Deck	3	EA
808-99.02	Common Perimeter	7	EA
808-99.03	Exterior Containment (8-24" Seeding)	87	EA
808-99.07	Block Willow (8-24" Seeding)	87	EA
802-01.11	Signal Head, Type II	2	EA
902-20.08	Cables, 2, 1/4" Inch	1,430	L.F.
902-20.08	Cables, 4 AWG, 1 Conductor, Power	120	L.F.
902-20.07	Cables, 12 AWG, 7 Conductor, Power	1,500	L.F.
902-80.10	Cable, Loop Detector, Lead-in	120	L.F.
902-80.20	Power Supply Assembly, Type 2	1	EA
903-80.10	Pull Box, Preformed, Class I	5	EA
903-99.02	Controller Assembly	1	EA
903-99.02	Tap Mount Post, 15'	2	EA
903-50.07	Type SHRT-1, SPO	140	S.F.
903-99.02	U-Chaparral Post 3/8"	24	EA
910-31.00	Base, Concrete	1	C.Y.
	Bridge Deck	1	L.S.
202-10.10	Removal of Bridge	1	EA
206-10.00	Class I Excavation	120	C.Y.
702-10.10	Bridge Approach Slope (Shoulder)	289	S.Y.
702-10.12	Structural Steel Piles (12 in.)	423	L.F.
702-70.00	Pile Point Reinforcement	18	EA
703-20.03	Class B concrete (Substructure)	4	L.S.
703-20.08	Protective Coating - Concrete Berth (Weathering Steel)	1	L.S.
703-42.12	Slot on Steel	612	S.Y.
703-42.15	Safety Barrier Curb	271	L.F.
703-44.20	Shovel (Oblique)	2153	SF
703-70.30	Pitch Nosepiece Bearing Rod	12	EA
712-11.22	Fabricated Structural Low Alloy Steel (Plate Gunders) ASTM A709 Grade 50	236,730	LB
713-30.10	Swit Drain	103	L.F.
713-10.61	Vertical Drop of End Beams	6	EA



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 DATE
 DRAWN BY
 CHECKED BY

PROJECT LOCATION
 PROJECT NO.
 SHEET NO.

FIG. DATA
 SCALE
 DATE

SHEET	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	614-99.96 SINGLE CURB INLET (EA)	614-99.97 DOUBLE CURB INLET (EA)	614-99.98 AREA INLET (EA)	614-99.99 MANHOLE (EA)	YARD DRAIN (EA)	734-99.01 JUNCTION CHAMBER (EA)
31	A3	1+71.50	20.37	RT				1		
31	A5	1+93.74	23.00	RT		1				
31	A7	3+46.00	33.00	LT	1					
31	A8	3+46.00	23.00	RT	1					
31	B2	15+73.08	45.55	LT				1		
31	B3	13+48.98	43.72	LT			1			
31	B4	13+14.84	23.00	LT	1					
31	B5	11+18.15	23.00	LT	1					
32	B6	9+57.23	23.00	LT		1				
32	B7	9+57.23	23.00	RT	1					
31	B8	11+18.15	23.00	RT	1					
31	B9	15+74.14	23.00	LT		1				
32	C2	15+86.31	22.20	RT					1	
32	C3	15+36.40	54.51	RT		1				
32	C4	14+64.45	32.39	RT				1		
32	C5	14+06.13	23.00	RT	1	1				
32	D2	16+73.98	23.00	LT	1					
32	D3	18+32.07	23.00	LT	1					
32	D4	18+32.07	23.00	RT		1				
32	D5	18+99.49	27.50	RT				1		
32	E2	25+36.06	21.71	LT			1			
32	E3	25+33.07	24.87	RT			1			
32	E4	25+91.96	23.00	LT	1					
32	E5	25+91.96	23.00	RT	1					
32	E6	24+55.28	23.00	LT	1					
32	E7	24+55.28	23.00	LT	1					
32	E8	22+58.65	23.00	RT		1				
32	E9	24+55.28	23.00	RT	1					
32	E10	23+70.50	27.50	RT				1		
32	E11	26+49.50	27.50	RT				1	1	
33	F1	32+75.66	34.68	LT			1			
33	F2	32+74.30	21.53	LT			1			
33	F3	30+73.24	23.00	LT		1				
33	F4	30+73.24	23.00	RT	1					
33	F5	33+26.18	23.00	LT		1				
33	F6	33+26.18	23.00	RT		1				
33	F7	50+91.76	23.00	LT	1					
33	F8	34+95.40	23.00	RT	1					
33	F9	31+01.58	27.50	RT				1		
33	F10	33+14.50	27.50	RT				1		
33	G2	50+77.00	23.00	LT	1					
33	G3	49+68.83	21.75	LT			1			
33	G4	48+29.46	23.00	LT		1				
33	G5	46+95.14	21.55	LT	1			1		
33	G6	44+91.62	23.00	LT	1					
33	G7	42+09.35	23.00	LT	1					
34	G8	40+09.64	23.00	LT	1					
34	G9	40+09.64	23.00	RT	1					
33	G10	42+09.35	23.00	RT	1					
34	H2	53+82.94	23.00	RT		1				
34	H3	56+68.99	23.00	RT	1					
34	H4	59+69.78	23.00	RT	1					
34	H5	61+49.45	23.00	RT		1				
34	H6	53+82.94	23.00	LT		1				
34	H7	56+68.99	23.00	LT		1				
TOTALS					25	14	1	9	5	1

REINFORCED CONCRETE PIPE CULVERT									
SHEET	STRUCTURE NUMBER	STRUCTURE NUMBER	DISTANCE CTR. TO CTR.	726-13.12 12" (FT)	726-13.15 15" (FT)	726-13.18 18" (FT)	726-13.21 21" (FT)	726-13.24 24" (FT)	733-99.03 6'WX5'H PRECAST BOX CULVERT (FT)
31	A2	A3	84					84	
31	A3	A4	25					25	
31	A3	A5	22	22					
31	A5	A6	24	24					
31	A7	A8	57	57					
31	B2	B9	23	23					
31	B5	B8	46	46					
31	B1	B2	59				59		
31	B2	B3	222		222				
31	B3	B4	40		40				
31	B4	B5	197	197					
32	B5	B6	161	161					
32	B6	B7	46	46					
32	C1	C2	89						89
32	C3	C4	75	75					
32	C4	C5	59	59					
32	D1	D2	46	46					
32	D2	D3	156	156					
32	D3	D4	46	46					
32	E1	E2	40					40	
32	E2	E6	81	81					
32	E6	E7	196	196					
32	E7	E8	46	46					
32	E6	E9	46	46					
32	E2	E4	56	56					
32	E4	E5	46	46					
33	F1	F2	13					13	
33	F2	F3	201	201					
33	F3	F4	46	46					
33	F2	F5	52		52				
33	F5	F7	169	169					
33	F7	F8	46	46					
33	F5	F6	46	46					
33	G7	G10	46	46					
33	G1	G2	66				66		
33	G2	G3	105				105		
33	G3	G4	134				134		
33	G4	G5	129		129				
33	G5	G6	200		200				
34	G6	G7	282		282				
34	G7	G8	200	200					
34	G8	G9	46	46					
34	H1	H2	99				99		
34	H2	H3	286		286				
34	H3	H4	301	301					
34	H4	H5	177	177					
34	H2	H6	46	46					
34	H3	H7	46	46					
TOTALS				2799	1211	463	109	53	89

ST. CHARLES COUNTY PROJ. NO. 1
O'FALLON ROAD
 FEDERAL PROJECT NO. STP-5640X(606)

SHEET NUMBER 4
 TOTAL SHEETS 114

DATE: 10/15/2010
 TIME: 10:00 AM
 USER: JEFFREY L. HARRIS
 PROJECT: O'FALLON ROAD
 SHEET: 4 OF 114

PROJECT: O'FALLON ROAD
 SHEET: 4 OF 114
 DATE: 10/15/2010
 TIME: 10:00 AM
 USER: JEFFREY L. HARRIS

DATE: 10/15/2010
 TIME: 10:00 AM
 USER: JEFFREY L. HARRIS



609-20.99 INTEGRAL CURB - 6-INCH

SHEET	STA TO STA	LOCATION	LENGTH (L.F.)
8	1+04.85	2+22.81	LT 130
8-9	1+68.00	5+75.04	RT 436
8-10	5+05.06	13+60.55	LT 1056
9	5+86.97	6+57.35	RT 84
9	7+02.13	9+80.10	RT 2688
9-10	10+08.10	11+48.35	RT 148
10-11	14+37.76	19+57.50	LT 507
10	11+84.38	15+40.97	RT 359
10	15+86.15	15+25.28	RT 79
10-13	15+97.15	32+28.00	RT 1673
11	19+72.64	20+31.93	LT 63
11	20+45.95	21+57.40	LT 115
11	21+74.42	22+71.84	LT 98
12	22+84.94	23+67.38	LT 84
12	23+84.99	24+28.37	LT 45
12	24+40.55	24+69.91	LT 30
12	24+81.20	25+84.22	LT 204
12	26+97.95	27+94.66	LT 99
12-13	28+12.39	28+61.63	LT 51
13	28+79.64	30+90.75	LT 207
13	31+09.14	32+42.08	LT 148
13	32+65.14	33+66.64	LT 79
13-14	33+89.30	34+57.90	LT 77
13-14	32+53.06	38+39.04	RT 649
14	34+78.71	35+19.55	LT 41
14	35+26.70	38+06.92	LT 271
14-15	38+24.36	43+12.18	LT 482
14-15	38+78.04	43+51.29	RT 541
15-17	44+41.18	52+36.26	LT 773
15	43+70.10	43+81.29	RT 56
15-16	44+02.26	46+74.47	RT 295
16-17	46+91.59	52+34.62	RT 532
17	53+44.86	55+75.39	RT 226
17	53+44.86	55+75.39	RT 229
17-19	56+22.32	66+62.82	LT 1052
17-18	56+22.32	62+33.89	RT 602
19	62+59.19	66+47.28	RT 375
TOTAL			12203.0

606-60.04 CONCRETE SIDEWALK, 4 IN.

SHEET	STA TO STA	LOCATION	AREA (SY)
8	2+09.32	2+92.81	RT 19.8
8	4+68.00	3+71.59	RT 106.7
8-9	4+23.99	5+75.04	RT 82.7
8-10	3+82.65	13+60.55	LT 539.6
9	5+86.97	6+57.35	RT 39.7
9	7+02.13	9+80.10	RT 153.7
9-10	10+08.10	11+48.35	RT 76.6
10-11	14+37.76	19+57.50	LT 283.4
10	11+84.38	15+28.56	RT 184.4
10-13	15+06.90	32+16.06	RT 880.7
11	19+72.64	20+31.93	LT 33.3
11	20+45.95	21+57.40	LT 62.6
11	21+74.42	22+71.84	LT 50.8
12	22+84.94	23+67.38	LT 45.0
12	23+84.99	24+28.37	LT 23.3
12	24+40.55	24+69.91	LT 14.9
12	24+81.20	26+94.22	LT 111.4
12	26+97.95	27+94.66	LT 52.9
12-13	28+12.39	28+61.63	LT 26.6
13	28+79.64	30+90.75	LT 115.4
13	31+09.14	32+32.58	LT 67.2
13	32+73.23	33+66.64	LT 49.5
13-14	33+89.30	34+57.90	LT 40.8
13-14	32+68.79	38+29.71	RT 304.3
14	34+78.71	35+19.55	LT 21.9
14	35+26.70	38+06.92	LT 149.3
14-15	38+24.36	43+12.18	LT 268.4
14-15	38+78.28	43+38.08	RT 245.4
15-17	44+41.18	52+36.26	LT 441.5
15-16	44+10.28	46+67.47	RT 142.2
16-17	46+91.59	52+34.62	RT 320.6
17	53+44.86	55+75.39	LT 127.9
17	53+44.86	55+75.39	RT 129.6
17-19	56+22.32	66+62.82	LT 584.3
17-18	56+22.32	62+33.89	RT 332.4
19	62+59.19	66+47.28	RT 208.5
TOTAL			6341.2

726-99.03 PVC PIPE CULVERT (8-INCH)

SHEET	STRUCTURE NUMBER	STRUCTURE NUMBER	DISTANCE CTR. TO CTR.
32	D4	D5	70
32	E9	E10	85
32	E5	E11	58
33	F4	F9	29
33	F6	F10	13
TOTALS			255

603-10.00 RELOCATE WATER SERVICE

SHEET	STATION	OFFSET	LOCATION	DESCRIPTION
8	3+08.27	49.39	RT	WV
8	4+20.82	46.66	RT	WV
8	4+32.92	42.67	RT	WM
9	6+36.06	24.27	RT	VCD
10	11+77.93	25.39	RT	WV
10	11+90.98	34.17	LT	WV
10	15+43.09	32.72	LT	WV
10	15+50.60	25.46	LT	WV
11	20+71.09	21.87	LT	WM
12	23+55.59	23.81	LT	WM
12	26+73.45	25.82	LT	WM
13	29+71.16	30.86	LT	WM
13	32+28.83	49.37	RT	WM
13	32+27.19	15.79	RT	WV
13	34+49.09	22.63	LT	WM
13	32+79.37	12.92	RT	WV
14	35+73.25	21.65	LT	WM
14	37+66.49	17.21	LT	WM
15	44+11.62	15.45	RT	WV

FLARED END SECTIONS

SHEET	STRUCTURE NUMBER	STATION	OFFSET	LOCATION	732-06.12 12" (EA)	732-06.18 18" (EA)	732-06.21 21" (EA)	732-06.24 24" (EA)
31	A4	1+73.85	45.56	RT				
31	B1	16+20.84	85.12	LT		1		
32	D1	16+54.28	65.15	LT	1			
32	E1	25+53.35	57.74	LT			1	
33	G1	50+91.76	41.70	RT		1		
34	H1	52+98.68	75.52	RT			1	
TOTALS					1	3	1	1

SHEET	STA TO STA	802-30.00 TYPE 3 MULCH (ACRES)	803-10.00 SODDING (SY)	805-10.00 SEEDING (ACRES)	
8	0+58.04	5+00.00	0.0	637	0.0
9	5+00.00	11+00.00	0.2	646	0.2
10	11+00.00	17+00.00	0.0	2156	0.0
11	17+00.00	22+75.00	0.0	1538	0.0
12	22+75.00	28+50.00	0.0	1415	0.0
13	28+50.00	34+50.00	0.0	915	0.0
14	34+50.00	40+50.00	0.0	993	0.0
15	40+50.00	46+25.00	0.0	690	0.0
16	46+25.00	51+00.00	0.1	631	0.1
17	51+00.00	57+00.00	0.6	439	0.6
18	57+00.00	62+50.00	0.4	614	0.4
19	62+50.00	66+62.62	0.0	1576	0.0
20	66+62.62		0.4	0	0.4
TOTALS			1.7	12250	1.7

611-50.30 HEAVY STONE REVETMENT

SHEET	STA TO STA	LOCATION	AREA (SY)
10	16+11.06	17+07.65	LT 600.0
17	52+23.01	53+53.20	RT 3017.3
20	52+89.51	53+09.11	RT 91.0
TOTAL			3708.3

624-01.03 GEOTEXTILE FABRIC, TYPE 3

SHEET	STA TO STA	LOCATION	AREA (SY)
10	16+11.06	17+07.65	LT 600.0
12	25+48.88	25+61.84	LT 111.1
16-17	53+09.31	52+43.50	RT 145.8
17	52+23.01	53+53.20	RT 3017.3
20	52+89.51	53+09.11	RT 91.0
TOTAL			3865.2

BOX CULVERT END SECTION

SHEET	STRUCTURE NUMBER	STATION	OFFSET	LOCATION
32	C1	16+35.54	67.13	LT

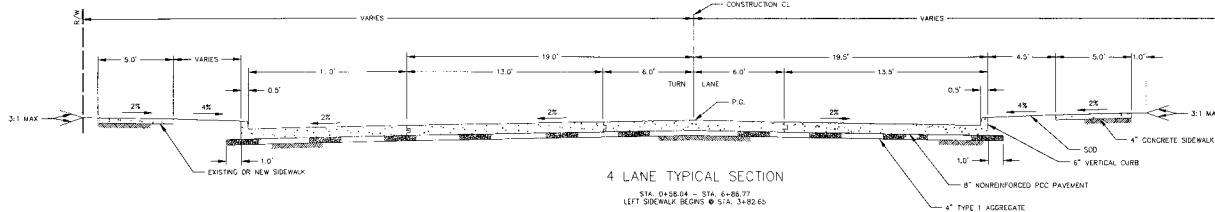
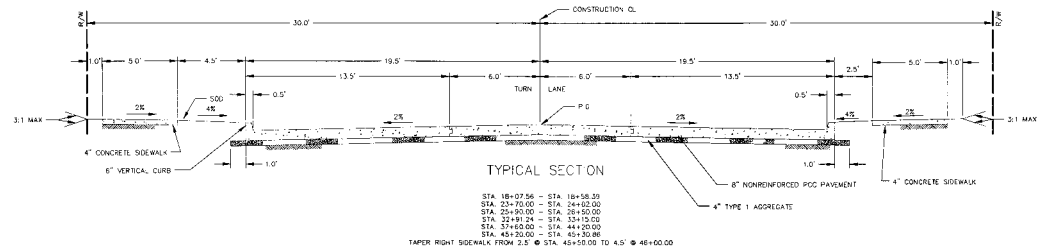
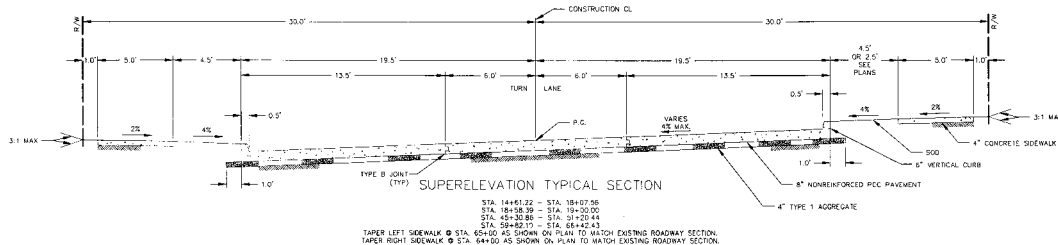
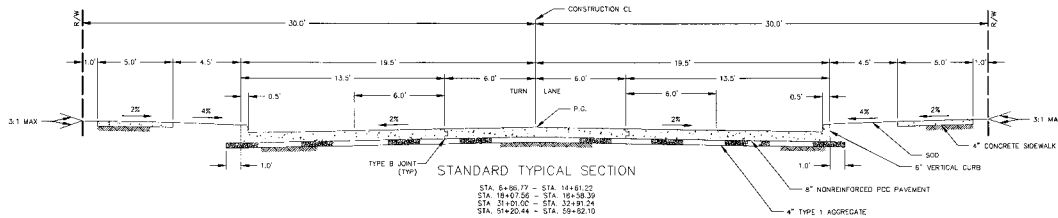
SHEET	617-36.00B TRAFFIC BARRIER (LF)	620-50.03A MARKING TAPE, YELLOW (LF)	620-60.00A 4" SOLID WHITE PAINT (LF)	620-60.01A 4" SOLID YELLOW PAINT (LF)	620-60.03A 4" INTERMITTANT YELLOW PAINT (LF)	620-61.01 LEFT ARROW, WHITE PAINT (EA)	620-61.02 RIGHT ARROW, WHITE PAINT (EA)	620-61.04 STRAIGHT-LEFT ARROW, WHITE PAINT (LF)	620-61.06 6" SOLID WHITE PAINT (LF)	620-61.08 8" SOLID WHITE PAINT (LF)	620-61.20 8" SOLID YELLOW PAINT (LF)	620-61.24 24" SOLID WHITE PAINT (LF)
104	0	0	964	8678	7756	50	7	2	514	184	7	103
105	0	0	0	4285	4285	24	0	0	0	0	0	0
109	1611	0	3913	9088	0	0	0	0	0	0	0	0
110	0	97	51	0	0	0	0	0	0	0	0	0
111	1483	0	61	0	0	0	0	0	0	0	0	0
112	110	8745	0	0	0	0	0	0	0	0	0	0
MAX	1611	97	8842	4928	22051	74	7	2	514	184	7	103

FILED
 ST. CHARLES COUNTY
 ENGINEERING DEPARTMENT
 400 N. 1ST ST.
 ST. CHARLES, MO 63301

PROJECT LOCATION
 FALLON ROAD
 ST. CHARLES COUNTY, MO
 63301

PLOT DATE
 12/20/2011





- NOTE:
1. DECELERATION LANES AND SUBDIVISION ENTRANCES MAY OCCUR WITHIN THESE LIMITS. SEE OTHER TYPICAL SECTIONS OR DETAILS FOR DIMENSIONS.
 2. BRIDGE SECTION OCCURS WITHIN THESE LIMITS.
 3. TRANSITION SECTIONS OCCUR AT EACH END OF BRIDGE.

- NOTE:
1. SECTION LIMITS INCLUDE 150' TRANSITION INTO FULL S.E. AND 150' TRANSITION OUT OF FULL S.E.
 2. FOR LAST STATION LIMITS SHOWN, TRANSITION OUT OF FULL S.E. @ 145'. (STA. 64+00+43 TO STA. 66+42+43)
 3. DECELERATION LANES AND SUBDIVISION ENTRANCES MAY OCCUR WITHIN THESE LIMITS. SEE OTHER TYPICAL SECTIONS OR DETAILS FOR DIMENSIONS.

- NOTE:
1. LANE WIDTHS VARY FROM STA. 0+58.64 TO STA. 1+89.64. SEE PLANS FOR LAYOUT DIMENSIONS AND SIDEWALK LOCATIONS.
 2. TRANSITION FROM 4 LANE TYPICAL SECTION TO STANDARD TYPICAL SECTION FROM STA. 3+86.77 TO STA. 6+86.77.



DATE	DESCRIPTION

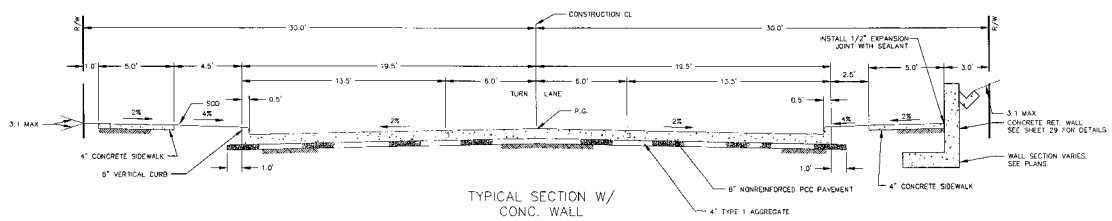
DATE	DESCRIPTION

DATE	DESCRIPTION

PLAN	DATE
SECTION	
DETAIL	
AS BUILT	

PROFILE	DATE
SECTION	
DETAIL	
AS BUILT	

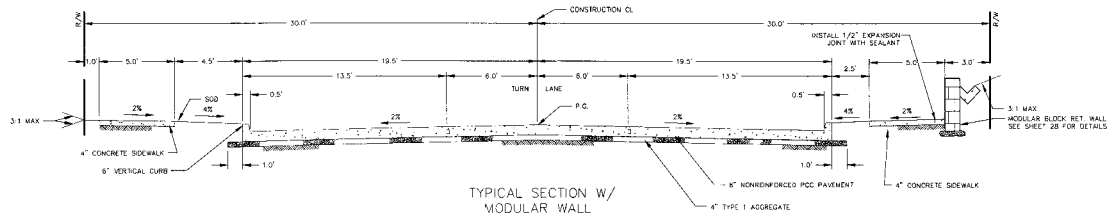
FLUO DATA	DATE
SECTION	
DETAIL	
AS BUILT	



TYPICAL SECTION W/
CONC. WALL

- STA 19+95.00 - STA 22+62.37
- STA 27+60.00 - STA 29+85.00
- STA 34+10.00 - STA 36+70.00

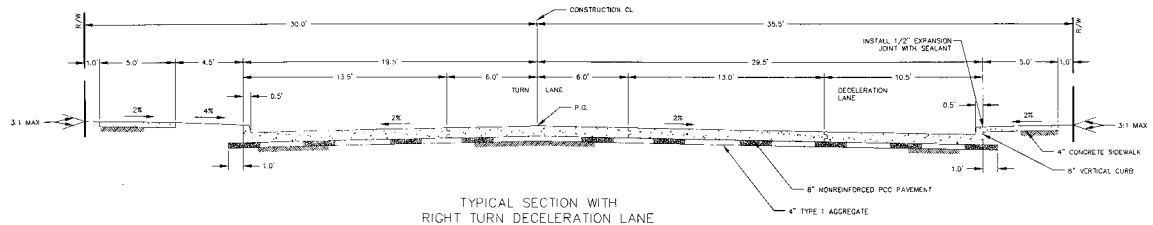
NOTE:
THIS SECTION MAY BE IN A CROWN SECTION OR
SUPERELEVATION SECTION.



TYPICAL SECTION W/
MODULAR WALL

- STA 19+95.00 - STA 19+95.00
- STA 25+82.37 - STA 23+70.00
- STA 24+92.00 - STA 23+90.00
- STA 26+50.00 - STA 27+60.00
- STA 28+85.00 - STA 34+10.00
- STA 33+15.00 - STA 34+10.00
- STA 36+70.00 - STA 37+60.00
- STA 44+20.00 - STA 45+20.00

NOTE:
THIS SECTION MAY BE IN A CROWN SECTION OR
SUPERELEVATION SECTION.



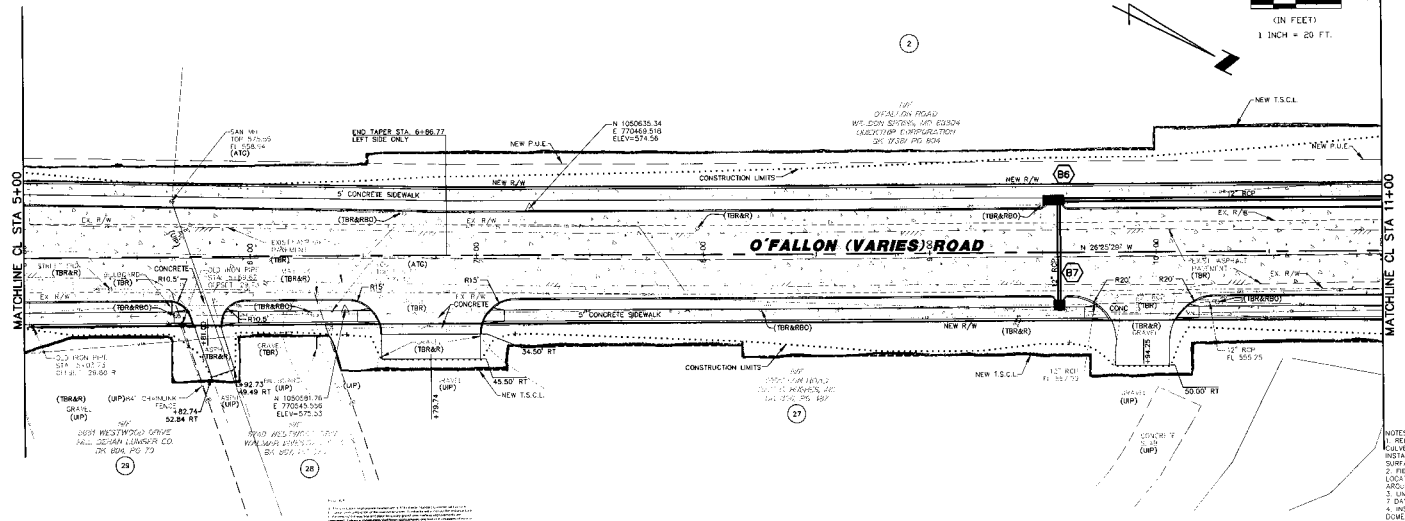
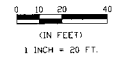
TYPICAL SECTION WITH
RIGHT TURN DECELERATION LANE

- STA 14+09.88 - STA 15+09.00
 - STA 31+03.37 - STA 31+96.56
 - STA 42+12.65 - STA 43+12.37
- DECEL LANE WIDTH TAPERS FROM:
- STA 14+09.88 - STA 14+59.88
 - STA 31+03.37 - STA 31+53.37
 - STA 42+12.85 - STA 42+62.85

NOTE:
THIS SECTION OCCURS WITHIN THE LIMITS OF THE TYPICAL
SECTIONS SHOWN ON SHEET 6.

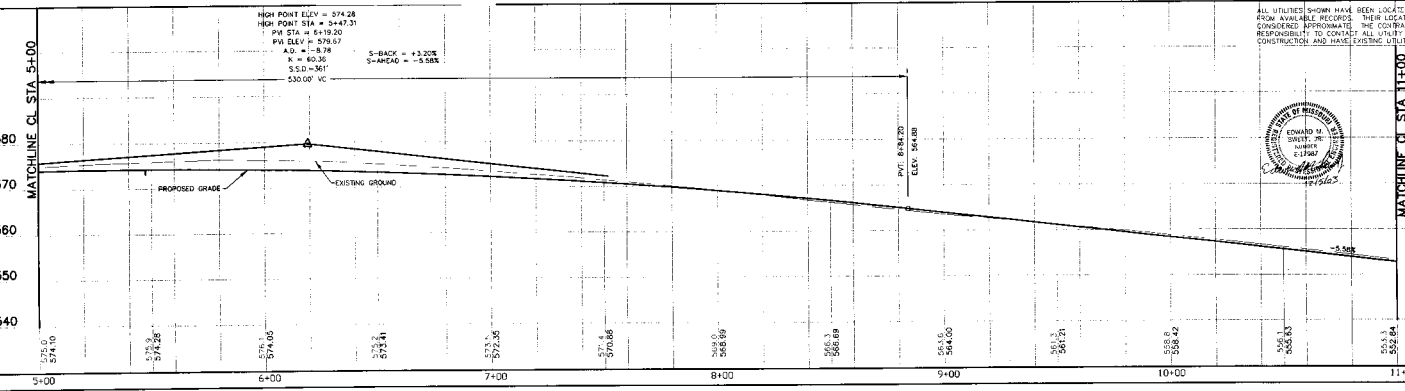


GRAPHIC SCALE



- NOTES:
1. REMOVE TEMP DRIVEWAY CURBSETS BEFORE INSTALLING NEW DRIVEWAY SURFACES.
 2. FIELD ADJUST SIDEWALK LOCATION TO TRANSITION AROUND NEW UTILITY POLES 3' LIMIT HORIZONTAL CURVE TO 7 DAYS MAXIMUM.
 3. INSTALL TRUNCATED DOWNS ON ALL HANDICAP RAMPES.

HIGH POINT ELEV = 574.28
 HIGH POINT STA = 5+47.31
 PVI STA = 6+19.50
 PVI ELEV = 576.67
 A.D. = -8.78
 K = 40.36
 S.S.D. = 361'
 530.00' VC
 S-BACK = +3.20%
 S-FORWARD = -5.08%



ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONFIRMED BY THE CONTRACTOR. THE CONTRACTOR HAS THE RESPONSIBILITY TO CONTACT ALL UTILITIES COMPANIES PRIOR TO CONSTRUCTION AND MAKE NECESSARY UTILITIES FIELD LOCATIONS.

PLAN

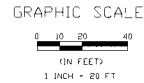
DATE	11/11/2015
SCALE	AS SHOWN
PROJECT NO.	STP-564C(606)
SHEET NO.	9
TOTAL SHEETS	114

PROFILE

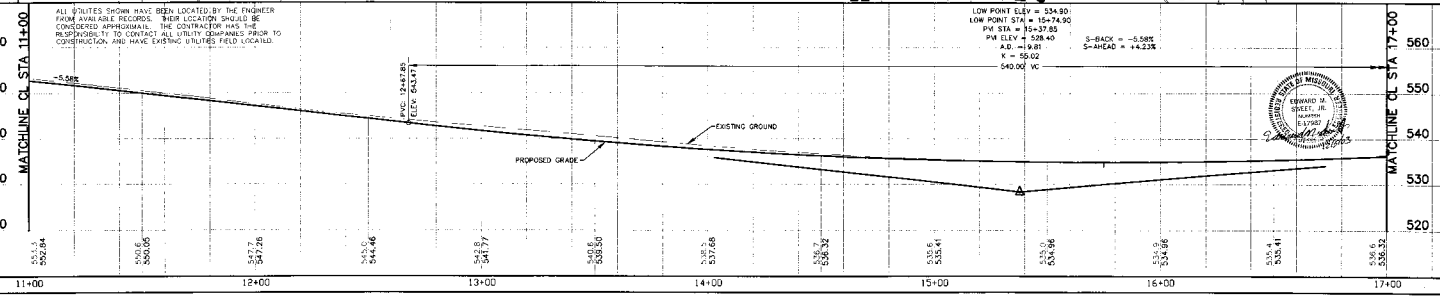
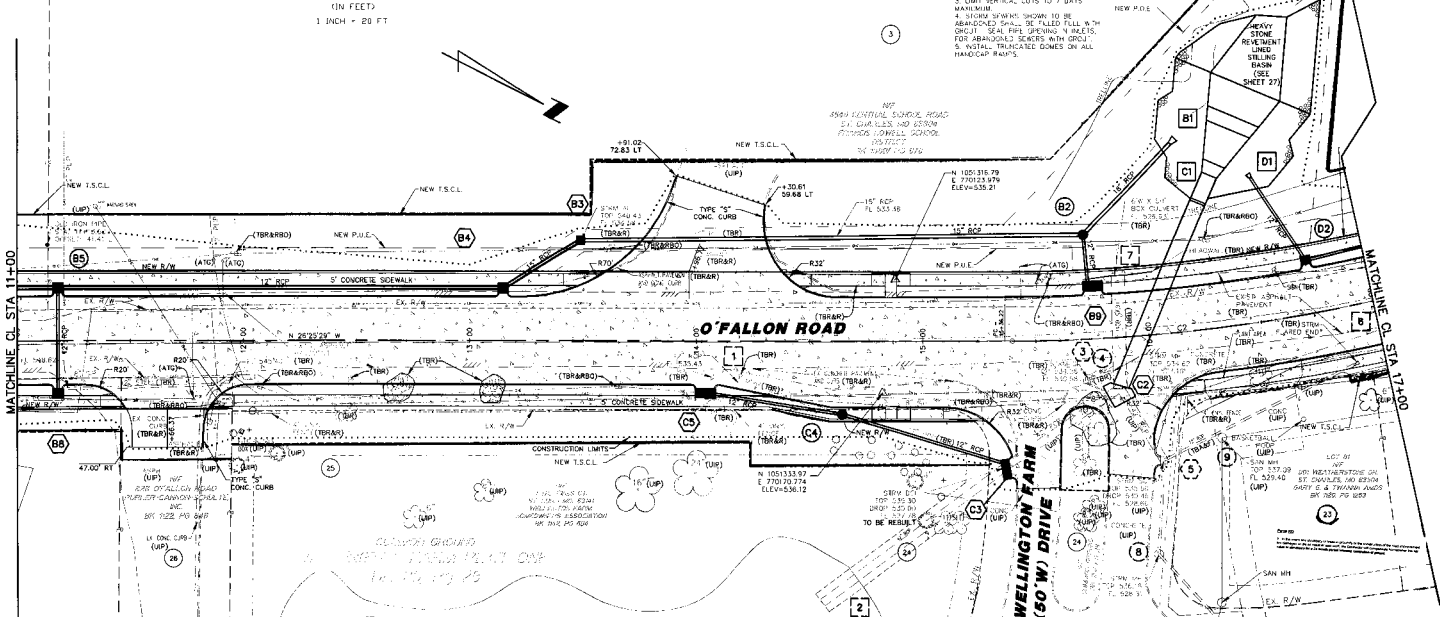
DATE	11/11/2015
SCALE	AS SHOWN
PROJECT NO.	STP-564C(606)
SHEET NO.	9
TOTAL SHEETS	114

P. POINT DATA

STATION	ELEVATION
5+00	574.10
5+47.31	574.28
6+00	574.10
6+19.50	576.67
7+00	572.35
8+00	570.88
9+00	568.89
10+00	567.21
11+00	556.84



- NOTES:
1. REMOVAL 12" HIGH SIDEWALK CURBS BEFORE INSTALLING NEW SIDEWALK SURFACES.
 2. FIELD ADJUST SIDEWALK LOCATION TO BRIDGE OVER HANGING NEW UTILITY POLES.
 3. LIMIT VERTICAL CUTS TO 7 FEET MAXIMUM.
 4. SHOW SPWALS SHOWN TO BE ABANDONED. SHALL BE TAILED FULL W/TH DRUGIT. SEAL PIPE DRENCH IN INLETS, FOR ABANDONED SECTORS WITH DRUGIT.
 5. VISUAL TRIANGULATE GOMES ON ALL HANGOVER RAIPS.



ALL POINTS SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION AND HAVE EXISTING UTILITIES FIELD LOCATED.

LOW POINT ELEV = 534.90
 LOW POINT STA = 15+74.00
 PM STA = 15+37.85
 PI ELEV = 538.49
 A.D. = 19.81
 S-BACK = -5.58%
 S-AHEAD = +4.23%
 540.00 VC



PLAN SHEET

DATE	
SCALE	
PROJECT NO.	
PROJECT NAME	
DESIGNER	
CHECKER	
DATE	

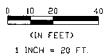
PROFILE SHEET

DATE	
SCALE	
PROJECT NO.	
PROJECT NAME	
DESIGNER	
CHECKER	
DATE	

NOTE DATA

DATE	
SCALE	
PROJECT NO.	
PROJECT NAME	
DESIGNER	
CHECKER	
DATE	

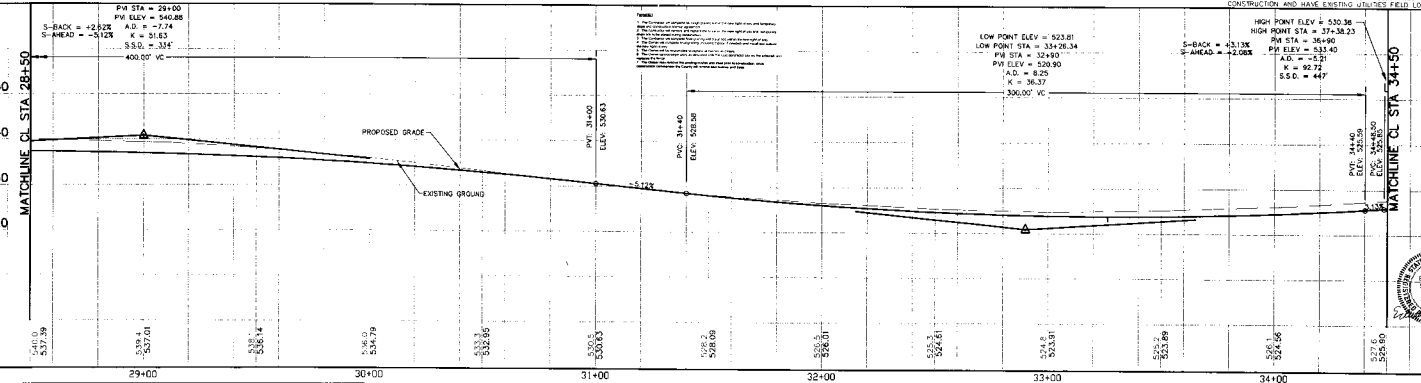
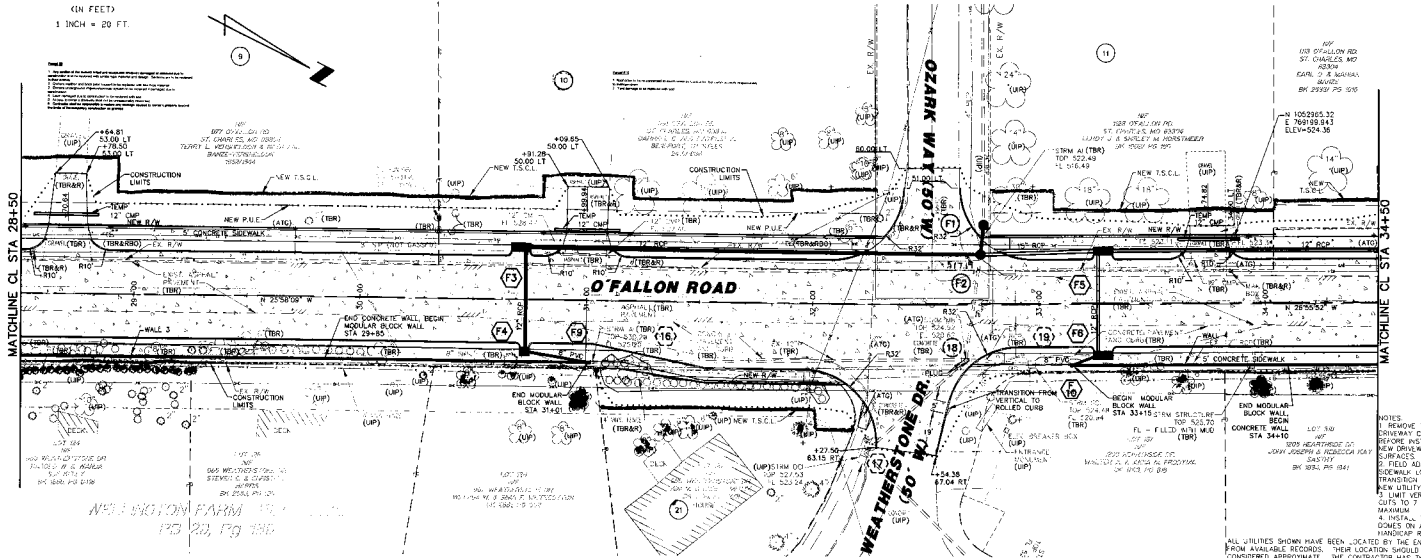
GRAPHIC SCALE



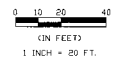
PLAN
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

PROP. LE.
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

ELEV. DATA
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]



GRAPHIC SCALE



PLAN

DATE	
BY	
CHECKED	
APPROVED	

PROFILE

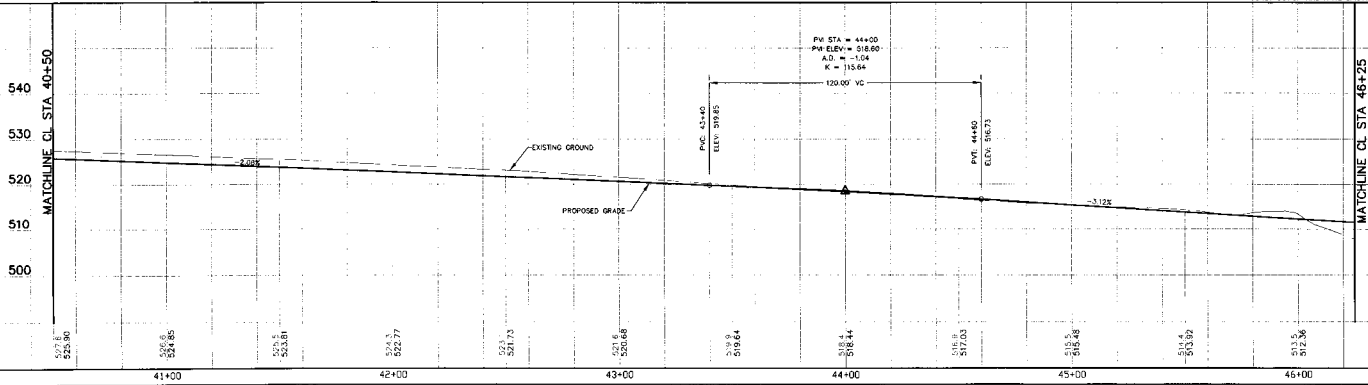
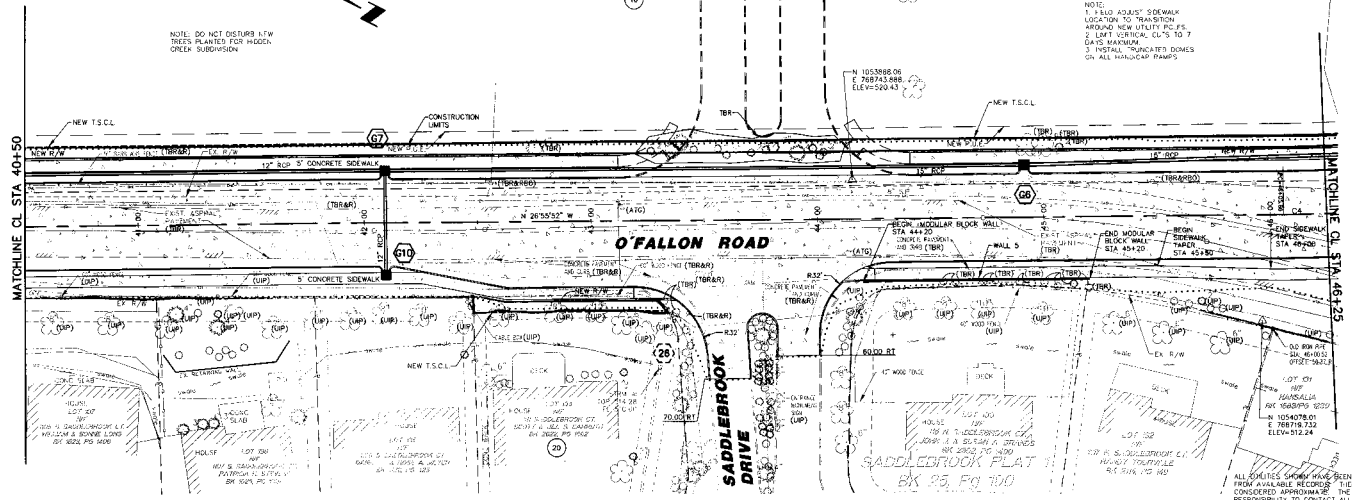
DATE	
BY	
CHECKED	
APPROVED	

C. & G. DATA

DATE	
BY	
CHECKED	
APPROVED	

NOTE: DO NOT DISTURB LFW TREES PLANNED FOR WOODEN DRAIN SUBSTITUTION

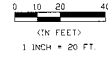
NOTE:
 1. 4' L.O. ADJ. SIDEWALK
 LOCATION TO TRANSITION
 AROUND NEW UTILITY P.C.
 2. LEFT VERTICAL, C.S.'S TO 7
 L.S.'S STRAIGHT
 3. INSTALL "BUNGALOW" DUMPS
 ON ALL HORIZONTAL RAMP



ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. FIELD LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION AND HAVE EXISTING UTILITIES FIELD LOCATED.



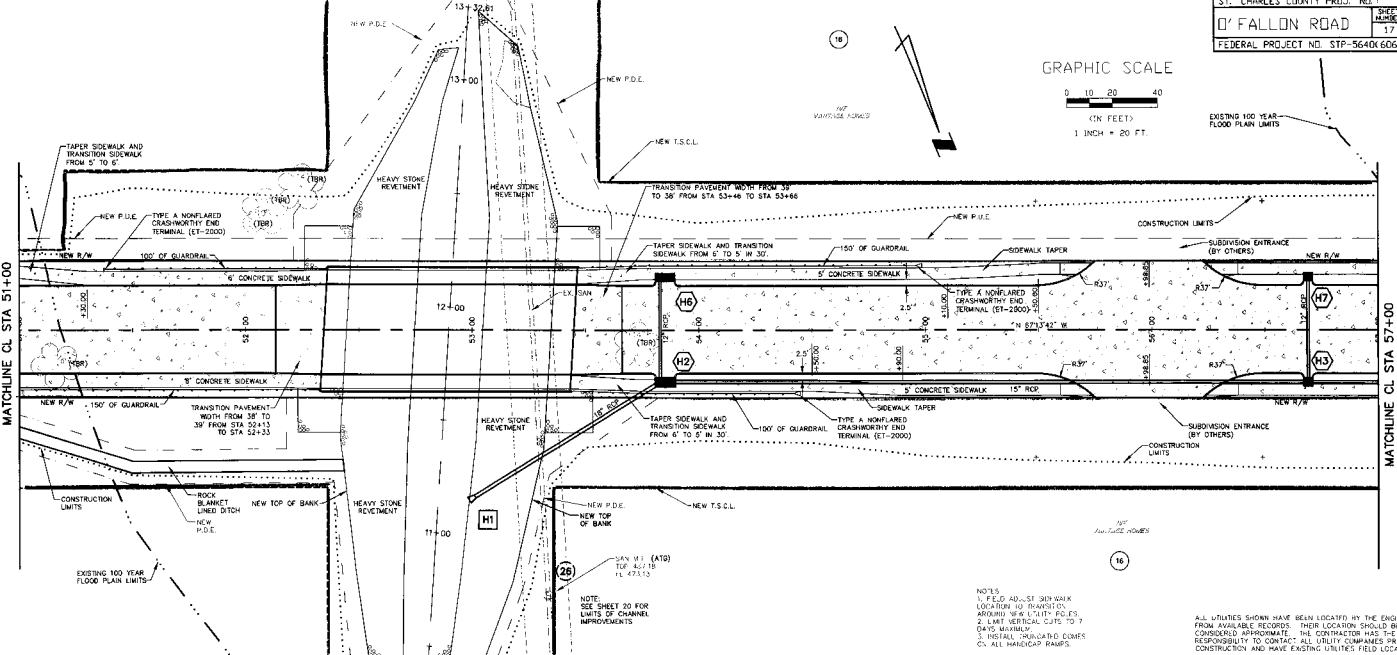
GRAPHIC SCALE



EXISTING 100 YEAR FLOOD PLAIN LIMITS

19

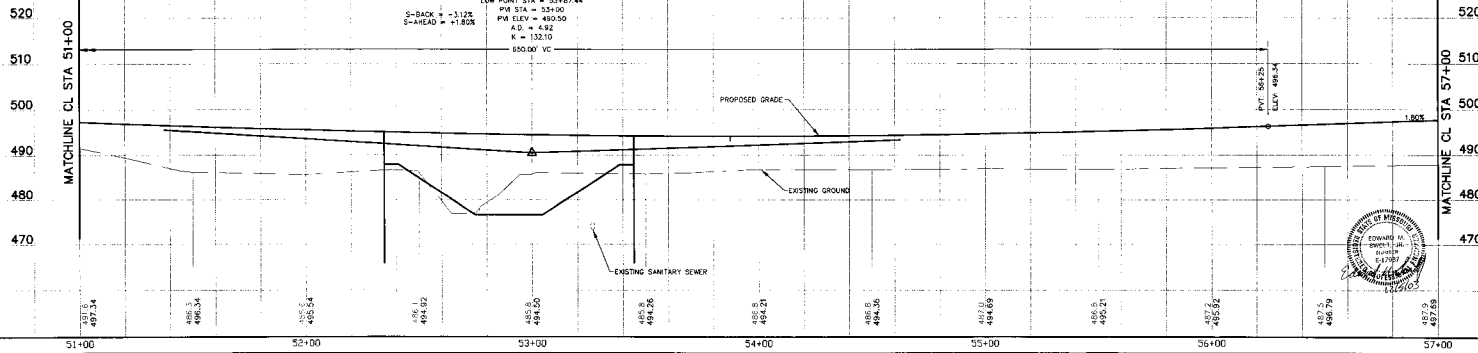
NOT VERTICAL PLANE



- NOTES
1. FIELD ADJUST 30' SIDEWALK LOCATION TO TRANSITION.
 2. ADJUST UTILITY POINTS AROUND NEW UTILITY POINTS.
 3. LIMIT VERTICAL CURVE TO 7' MINIMUM.
 4. INSTALL 2" DIA. LABD. COLES.
 5. ALL HARDTOP CURVES.

ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO CONTACT ALL UTILITY OWNERS PRIOR TO CONSTRUCTION AND HAVE EXISTING UTILITIES FIELD LOCATED.

LOW POINT STA = 53+87.44
 S-BACK = -1.17%
 S-HEAD = +1.80%
 PVI STA = 52+50.00
 PVI ELEV = 493.30
 A.D. = 4.92
 K = 132.00
 550.00' VC



DATE	BY	REVISION

DATE	BY	REVISION

DATE	BY	REVISION

GRAPHIC SCALE



(IN FEET)

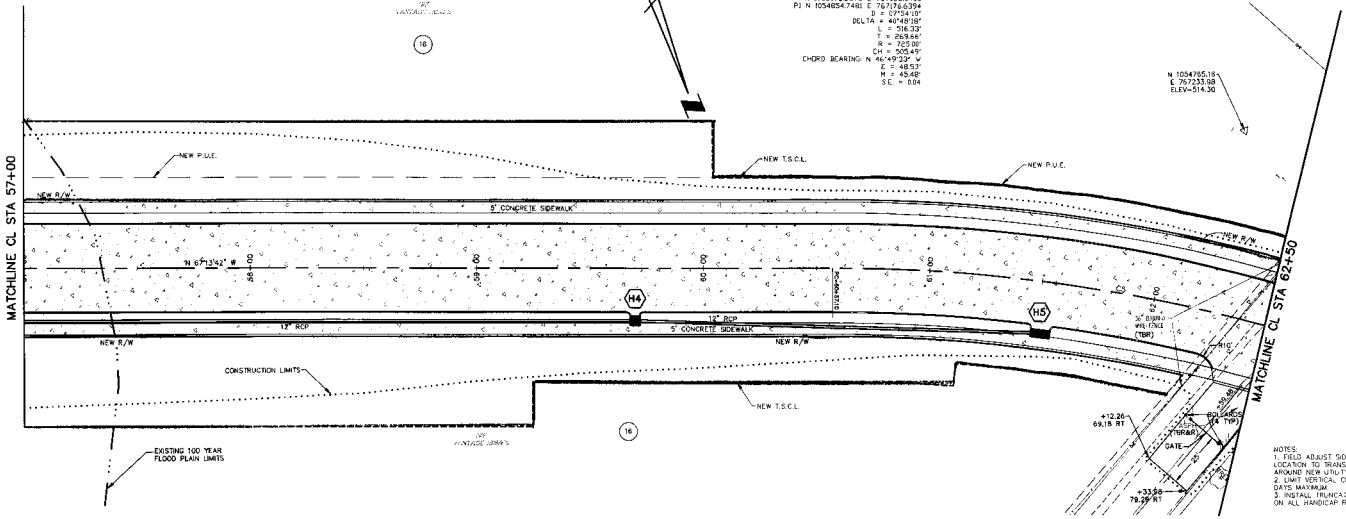
1 INCH = 20 FT.

PC N 1054730.7730 E 761425.8313
 PP N 105448.8622 E 767702.9654
 PI N 1055096.9710 E 767026.6486
 P2 N 1054854.7481 E 761761.2294
 D = 67544.07
 DELTA = 47°38'10"
 L = 316.33'
 T = 208.84'
 R = 725.95'
 CH = 205.45'
 E = 485.32'
 M = 45.48'
 S.C. = 0.04

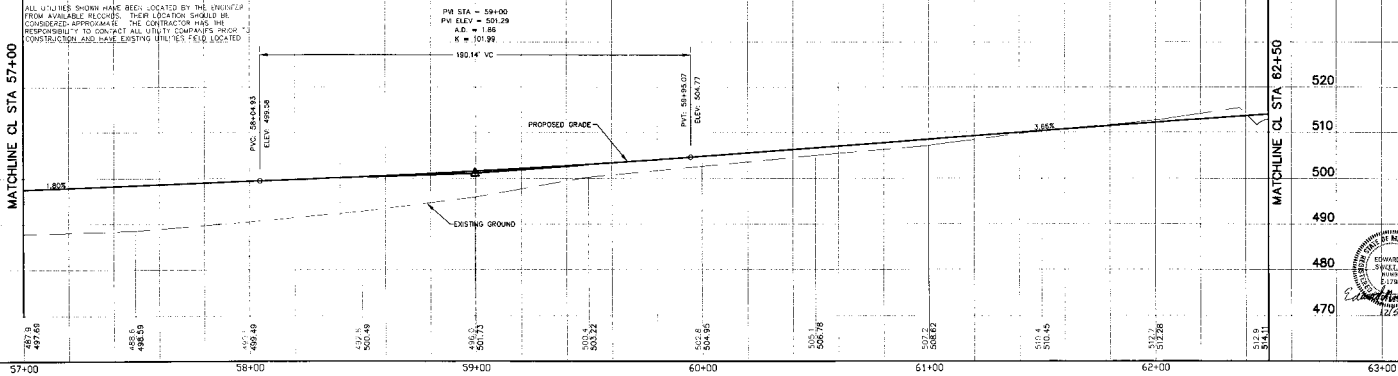
N 1054785.18
 E 797033.68
 ELEV = 514.30

DATE	BY	CHKD

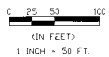
DATE	BY	CHKD



- NOTES:
- FIELD ADJUST SIDEWALK LOCATION TO TRANSITION AROUND NEW UTILITY POLES.
 - LIMIT VERTICAL CUTS TO 7 DASH MAXIMUM.
 - INSTALL FURNISHED DORIES ON ALL HANDICAP RAMPS.



GRAPHIC SCALE

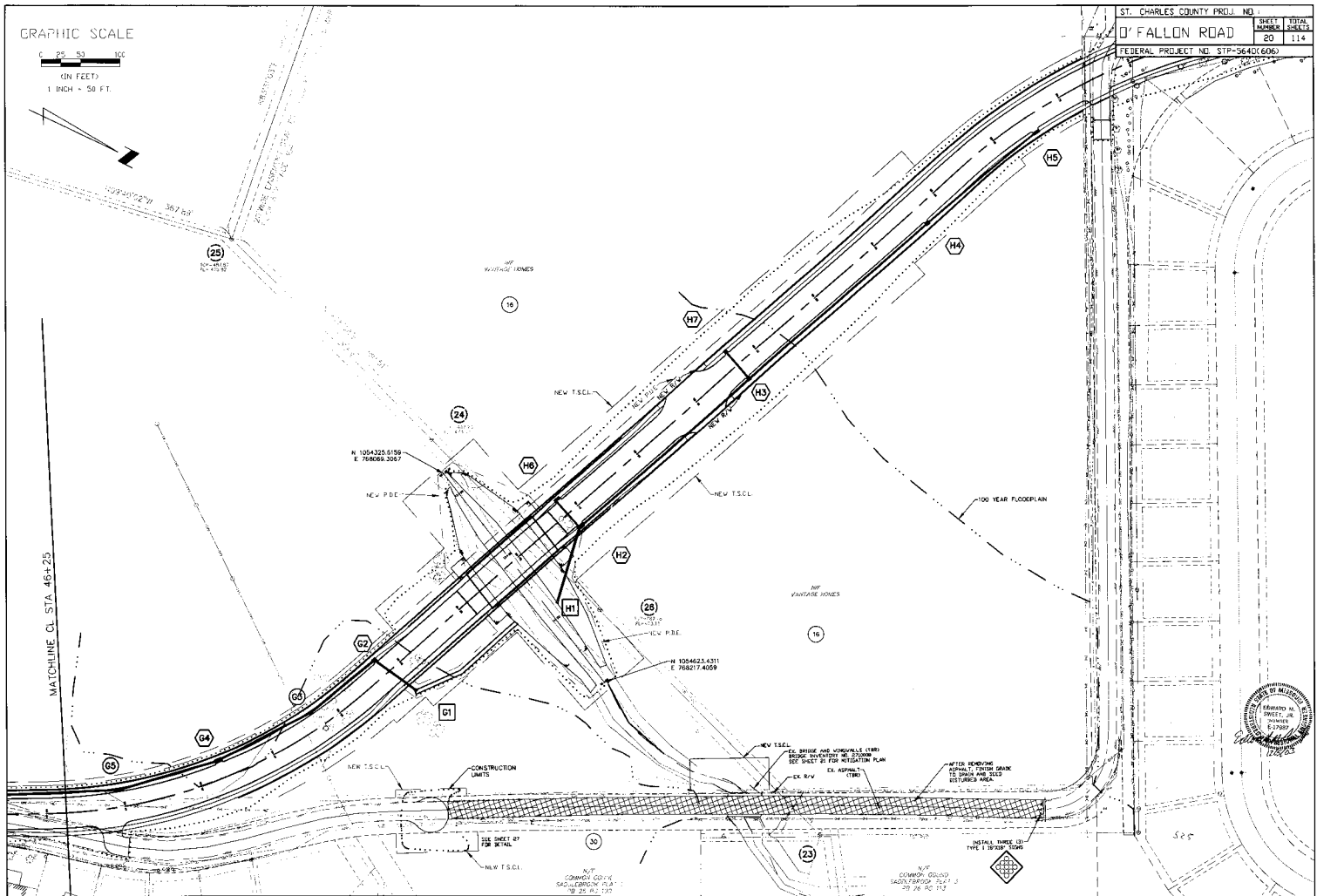


DATE	BY	CHKD

PROJECT	NO.	DATE

DATE	BY	CHKD

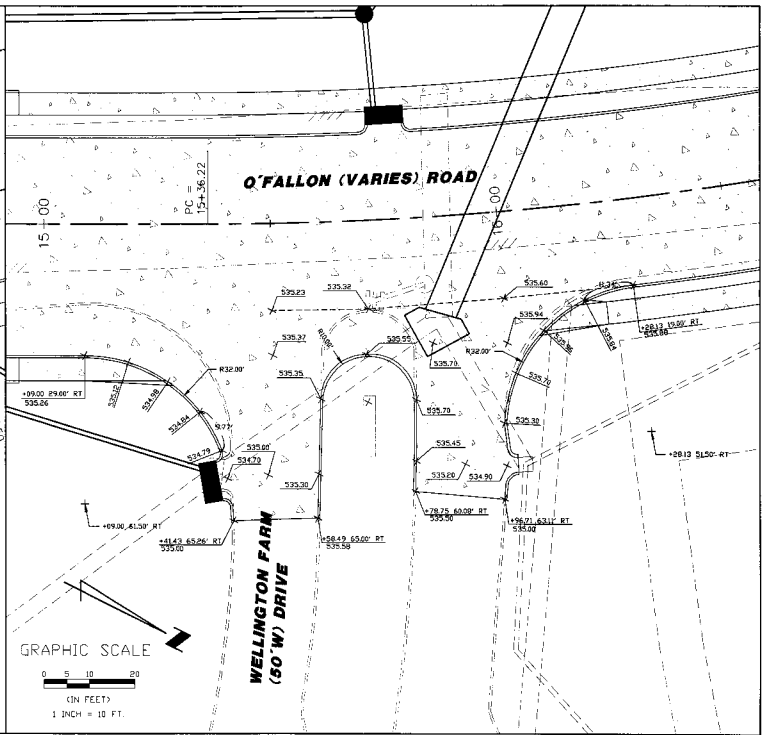
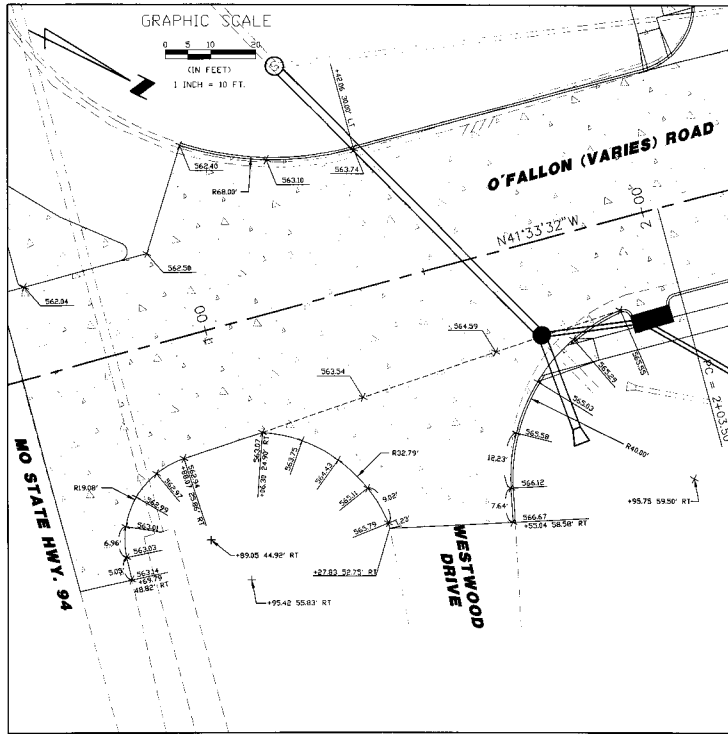
ST. CHARLES COUNTY PROJ. NO.	
D'FALLON ROAD	SHEET NUMBER
FEDERAL PROJECT NO. STP-5640(606)	20
	TOTAL SHEETS
	114



PLAN
 SHEETS
 1 OF 114 SHEETS
 DATE: 11/14/13
 DRAWN BY: [unintelligible]
 CHECKED BY: [unintelligible]

PROFILE
 SHEETS
 1 OF 114 SHEETS
 DATE: 11/14/13
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 CHECKED BY: [unintelligible]

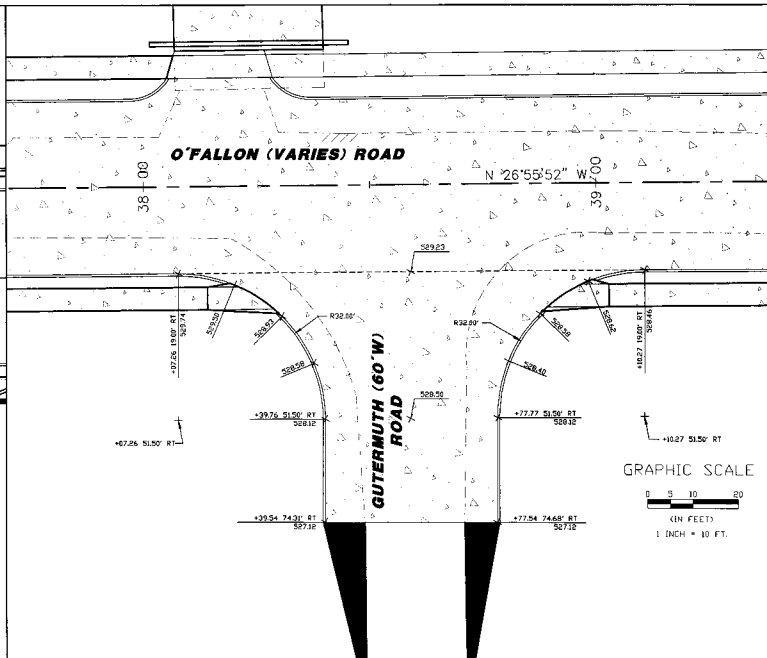
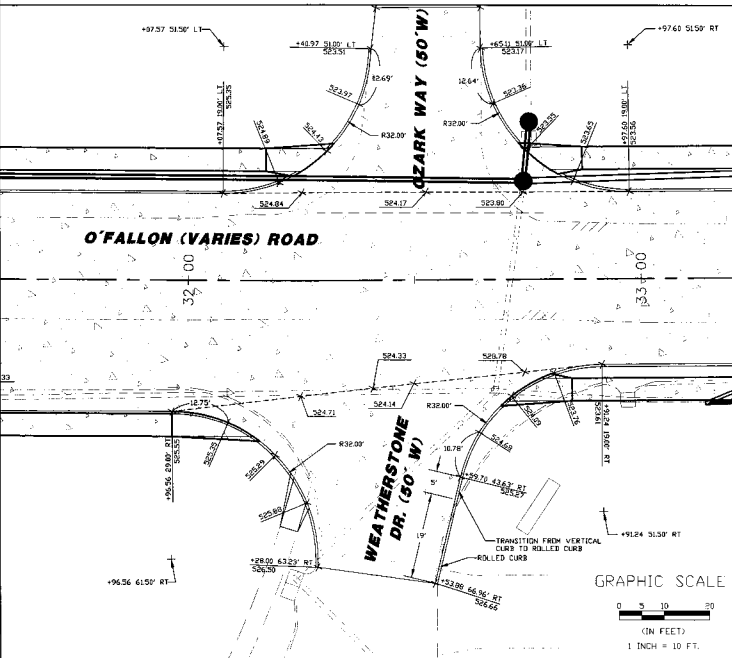
NOT CALL
 SHEETS
 1 OF 114 SHEETS
 DATE: 11/14/13
 DRAWN BY: [unintelligible]
 CHECKED BY: [unintelligible]



PLAN
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 IN CHARGE: _____

PROFILE
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 IN CHARGE: _____

NOTE DATA
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 IN CHARGE: _____



PLAN

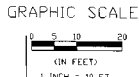
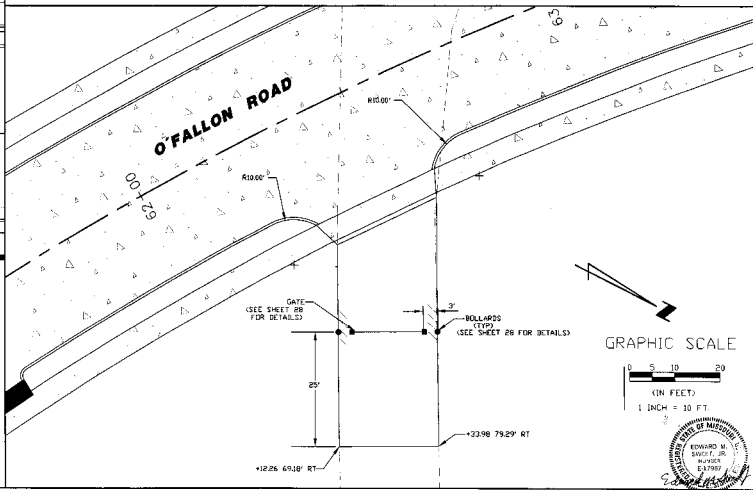
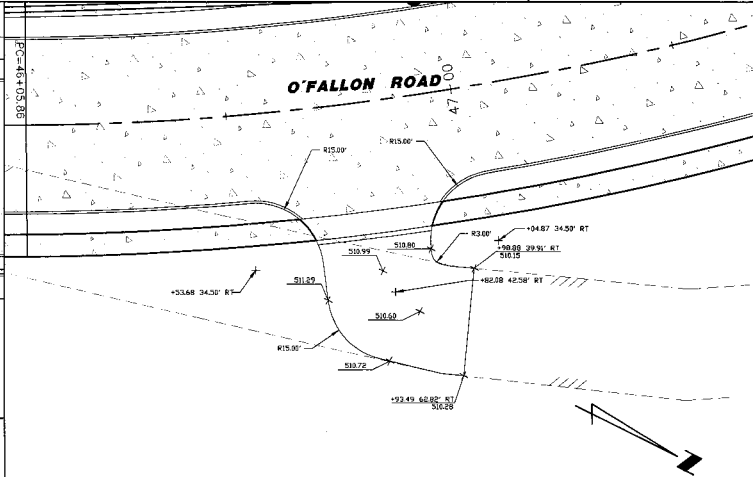
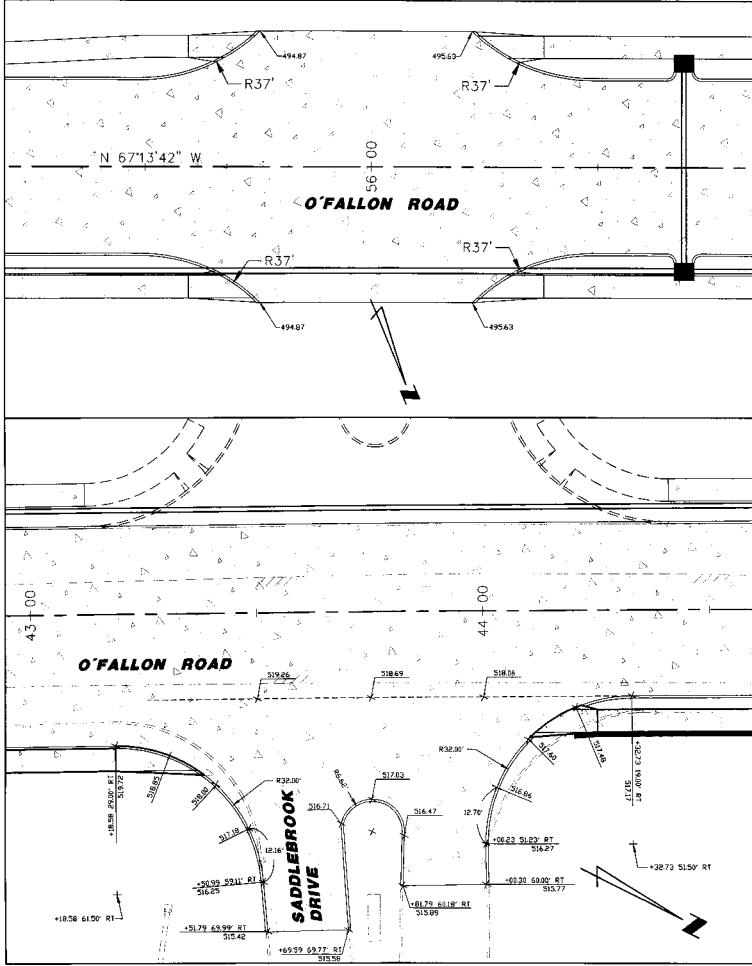
DATE	BY	CHKD.
11/15/07	J. M. GIBSON	J. M. GIBSON
SCALE	PROJECT	NO.
AS SHOWN	O'FALLON ROAD	114

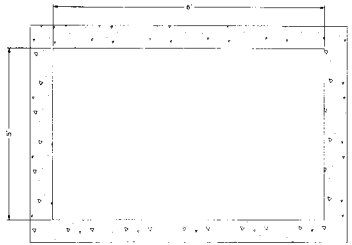
PLAN

DATE	BY	CHKD.
11/15/07	J. M. GIBSON	J. M. GIBSON
SCALE	PROJECT	NO.
AS SHOWN	O'FALLON ROAD	114

PLAN

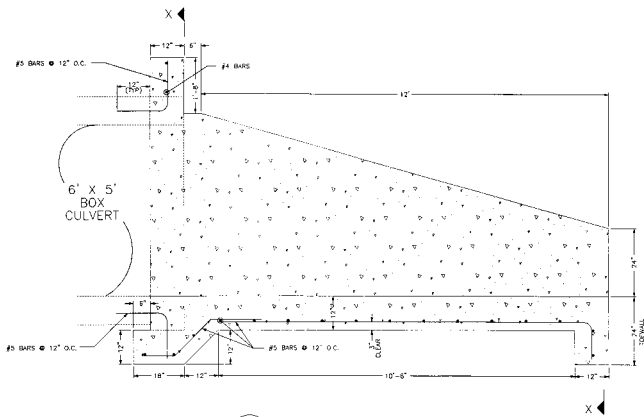
DATE	BY	CHKD.
11/15/07	J. M. GIBSON	J. M. GIBSON
SCALE	PROJECT	NO.
AS SHOWN	O'FALLON ROAD	114



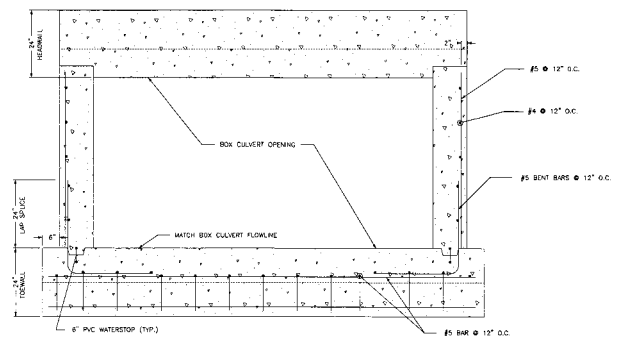


NOTE: PRECAST BOX CULVERT SECTIONS SHALL BE REINFORCED WITH REINFORCING STEEL PER ASTM C1433.

1 **6' X 5' BOX CULVERT - PRECAST**
 NOT TO SCALE



2 **WINGWALL (TYP)**
 NOT TO SCALE



3 **SECTION X-X HEADWALL/WINGWALLS**
 NOT TO SCALE



SCALE	DATE
AS SHOWN	11/11/85
BY	EDWARD B. SWEET, JR.
CHECKED	EDWARD B. SWEET, JR.
APPROVED	EDWARD B. SWEET, JR.

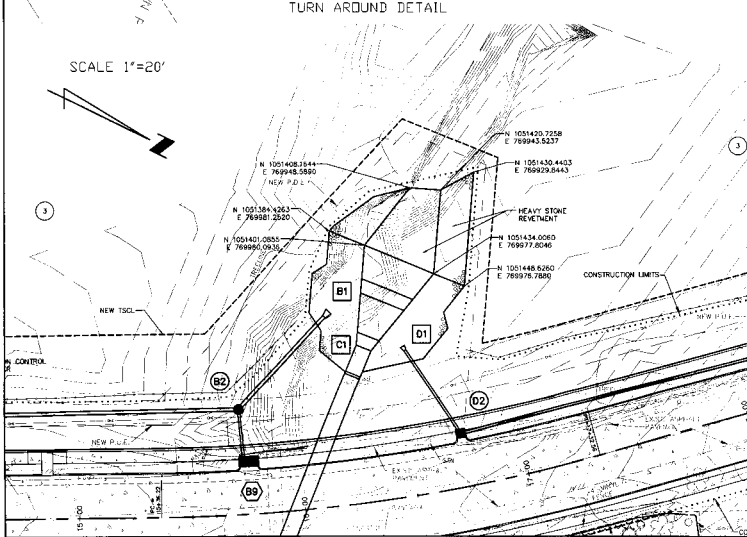
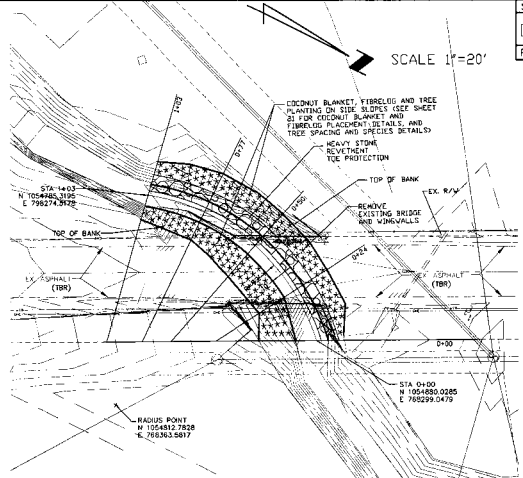
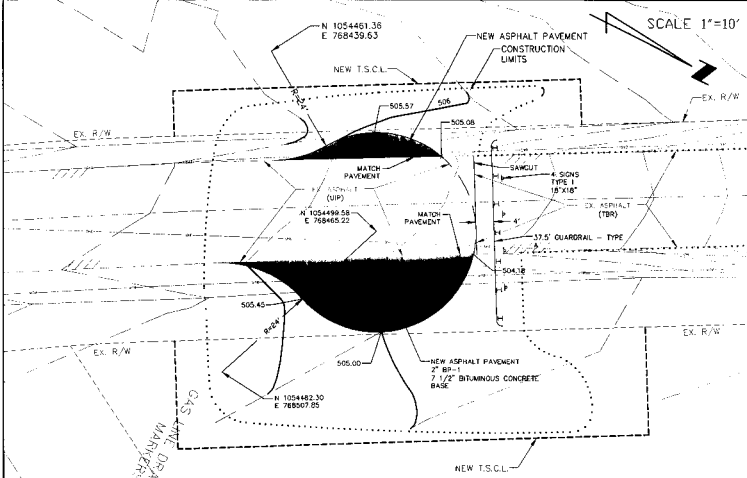
PROJECT	NO.
D'FALLON ROAD	114
BY	EDWARD B. SWEET, JR.
CHECKED	EDWARD B. SWEET, JR.
APPROVED	EDWARD B. SWEET, JR.

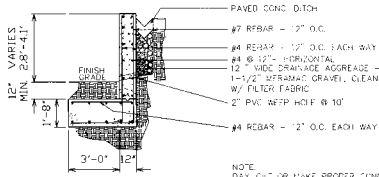
POST DATA	DATE
11/11/85	11/11/85
BY	EDWARD B. SWEET, JR.
CHECKED	EDWARD B. SWEET, JR.
APPROVED	EDWARD B. SWEET, JR.

PLAN	DATE
REVISED	
BY	
CHKD	
APP'D	

PROFILE	DATE
REVISED	
BY	
CHKD	
APP'D	

CALC. DATA	DATE
REVISED	
BY	
CHKD	
APP'D	

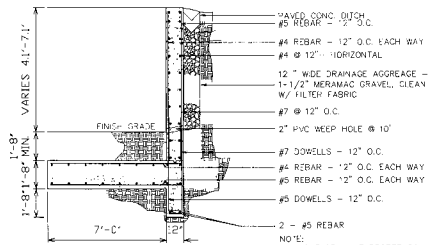




TYPE A WALL

SCALE: 3/8" = 1'

NOTE:
 DAYLIGHT OR MAKE PROPER CONNECTION OF UNDERDRAIN PIPE AS REQUIRED TO STORM SYSTEM

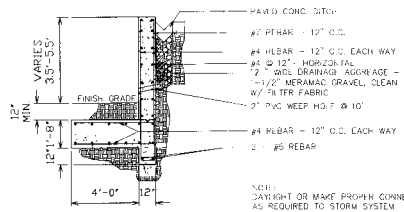


TYPE C WALL

SCALE: 3/8" = 1'

NOTE:
 DAYLIGHT OR MAKE PROPER CONNECTION OF UNDERDRAIN PIPE AS REQUIRED TO STORM SYSTEM

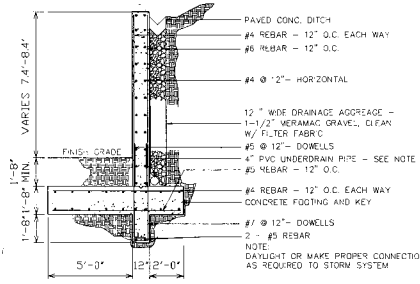
- GENERAL NOTES
- CONTROL JOINTS TO BE CONSTRUCTED AT 25' MAXIMUM SPACING
 - EXPANSION JOINTS TO BE CONSTRUCTED AT A MAXIMUM 85' SPACING
 - ALL REINFORCED CONCRETE WALLS SHALL HAVE A FORM LINER THAT APPROXIMATES THE LOOK OF THE MODULAR BLOCK WALL



TYPE B WALL

SCALE: 3/8" = 1'

NOTE:
 DAYLIGHT OR MAKE PROPER CONNECTION OF UNDERDRAIN PIPE AS REQUIRED TO STORM SYSTEM



TYPE D WALL

SCALE: 3/8" = 1'

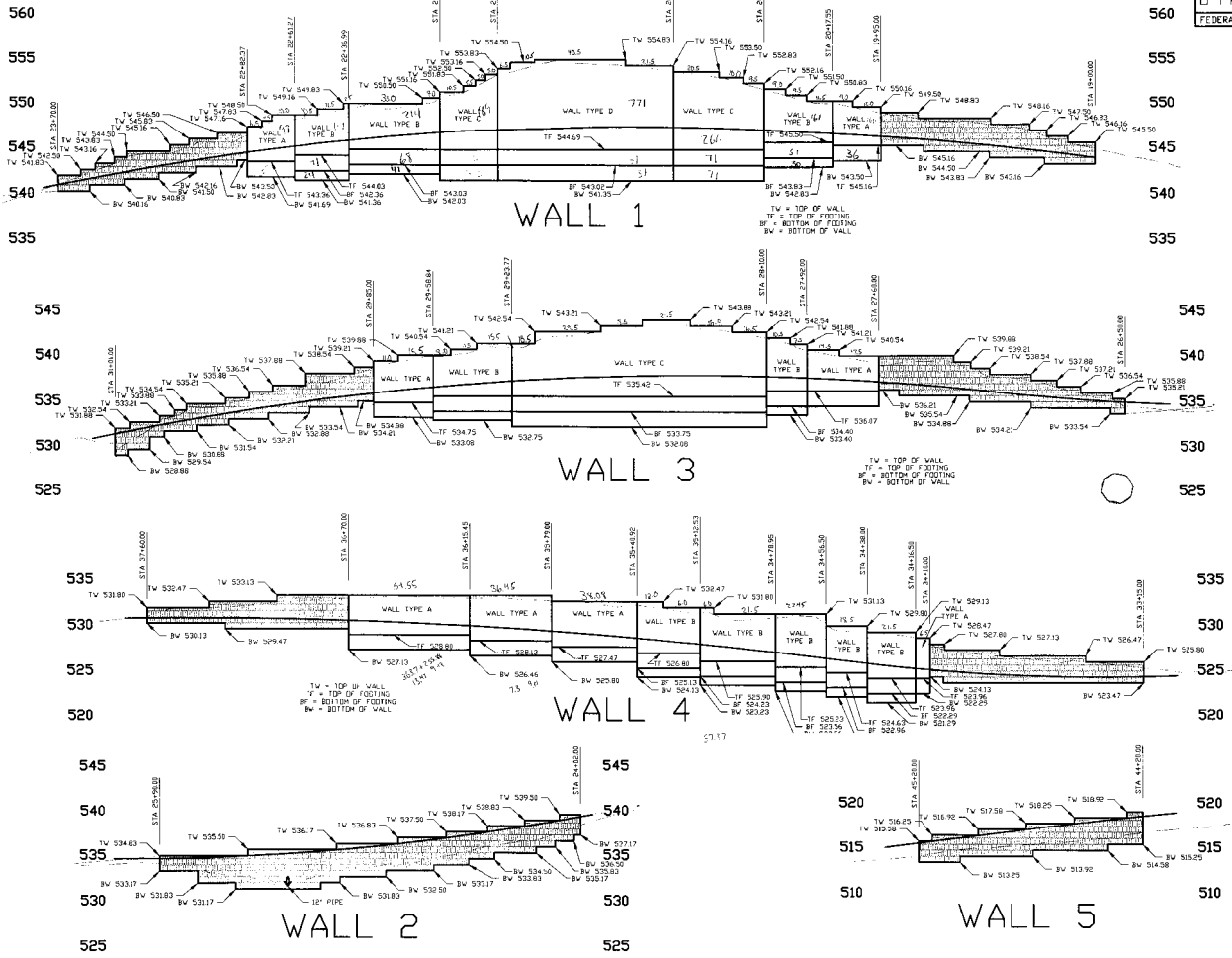
NOTE:
 DAYLIGHT OR MAKE PROPER CONNECTION OF UNDERDRAIN PIPE AS REQUIRED TO STORM SYSTEM



PLAN	DATE	BY	CHKD.

PROFILE	DATE	BY	CHKD.

PLOT DATA	DATE	BY	CHKD.



PLAT

DATE	BY	REVISION

PROJ. FILE NUMBER

--

PLAT DATA

--

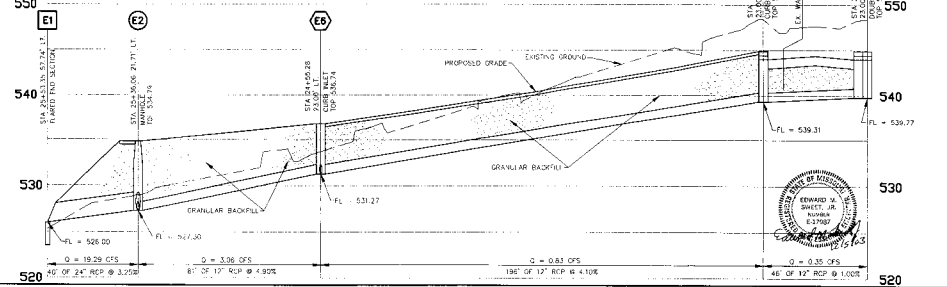
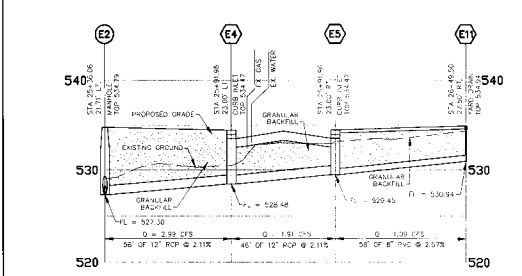
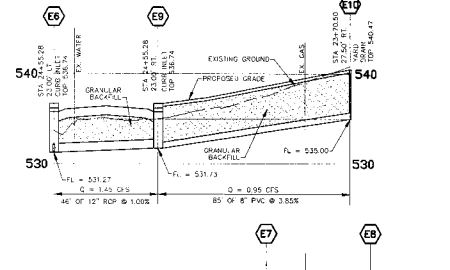
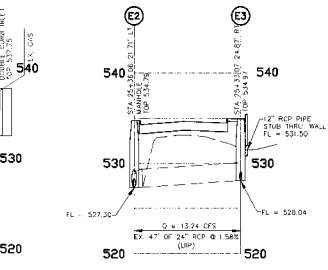
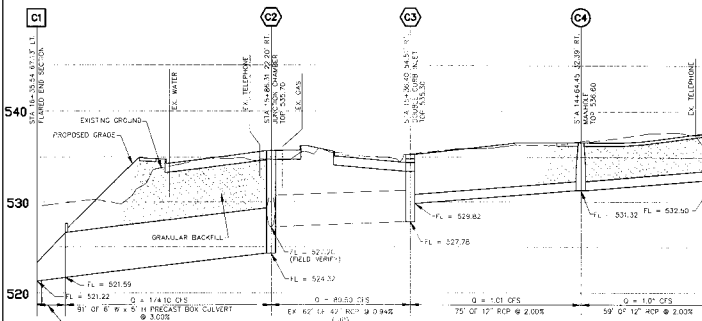
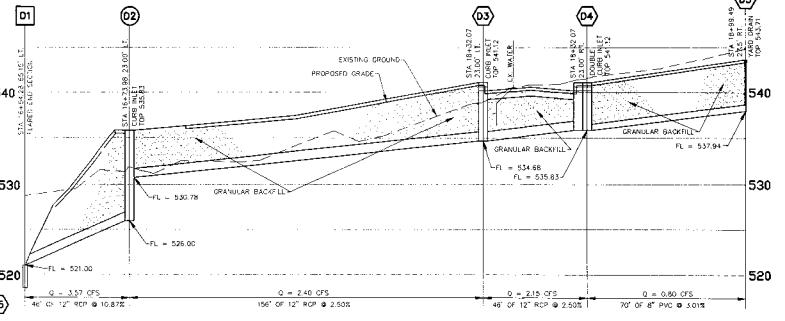
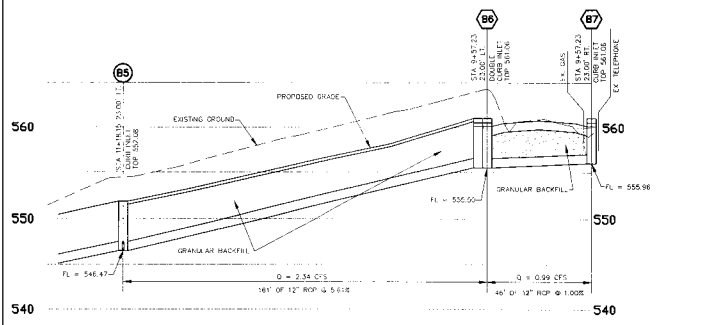


SCALE:
 1"=20' HORIZ
 1"=5' VERT

PLAN
 DATE: 11/11/10
 DRAWN BY: J. W. HARRIS
 CHECKED BY: J. W. HARRIS
 IN CHARGE: J. W. HARRIS

PROFILE
 DATE: 11/11/10
 DRAWN BY: J. W. HARRIS
 CHECKED BY: J. W. HARRIS
 IN CHARGE: J. W. HARRIS

C.O.P. DATE: 11/11/10
 DRAWN BY: J. W. HARRIS
 CHECKED BY: J. W. HARRIS
 IN CHARGE: J. W. HARRIS



PLAN

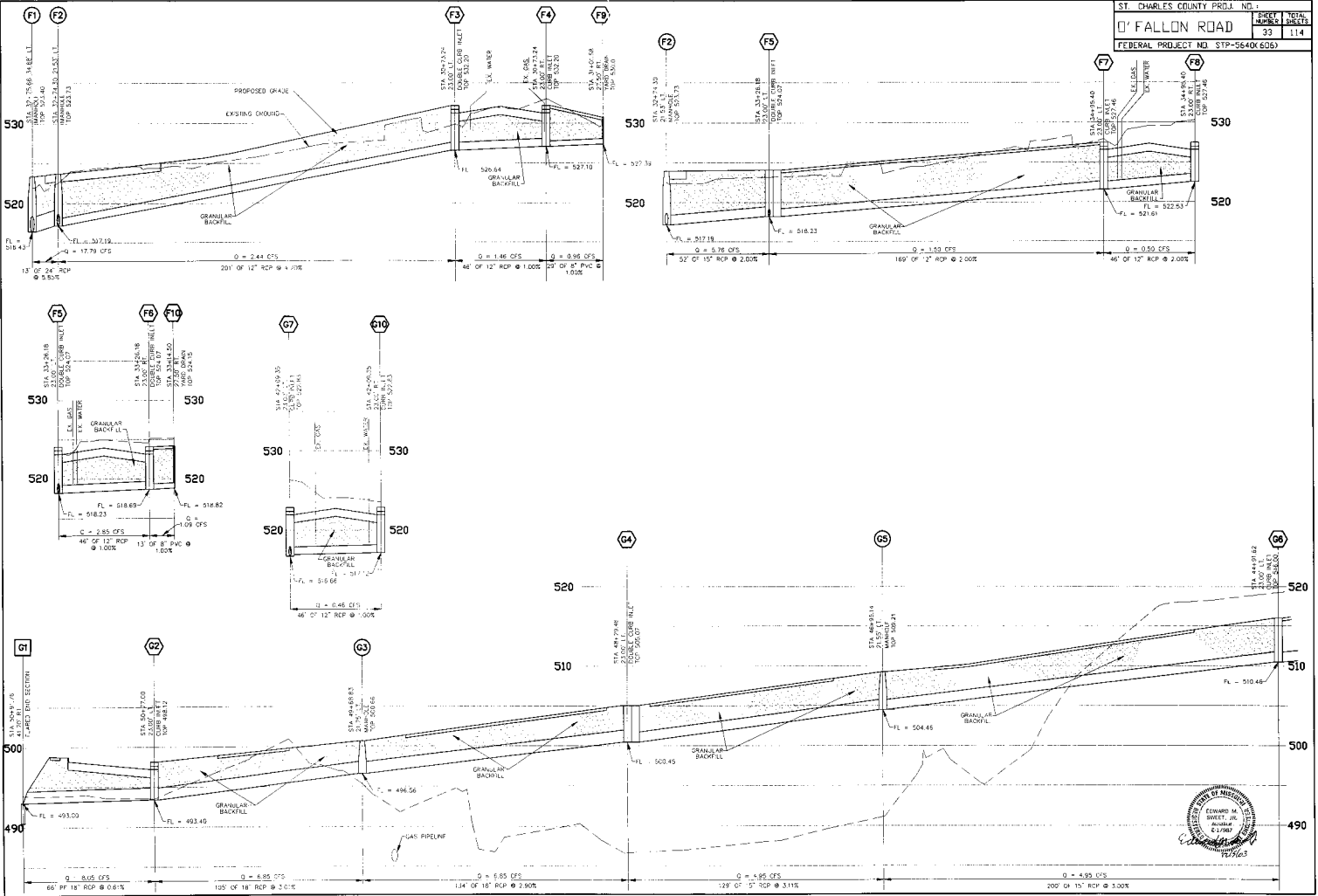
DATE	BY	CHECKED
10/1/03	JM	JK
PROJECT	NO.	SHEET
ST. CHARLES COUNTY	0' FALLON ROAD	32
DATE	BY	CHECKED
10/1/03	JM	JK

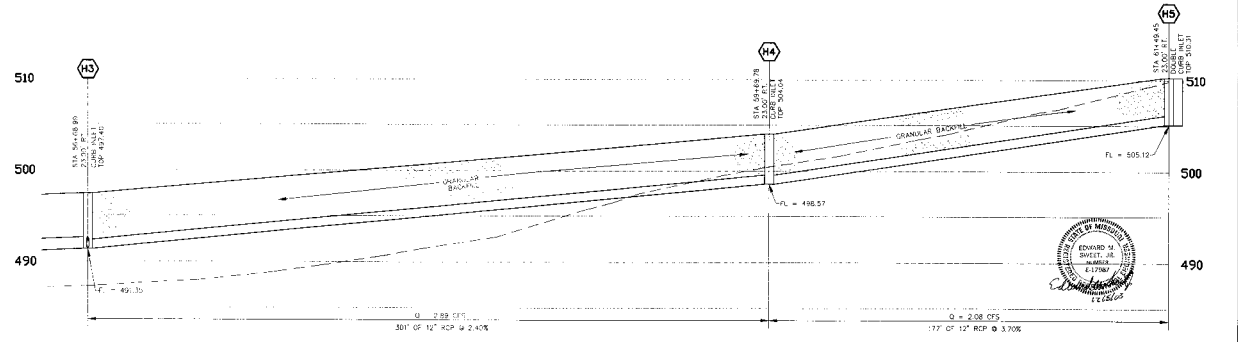
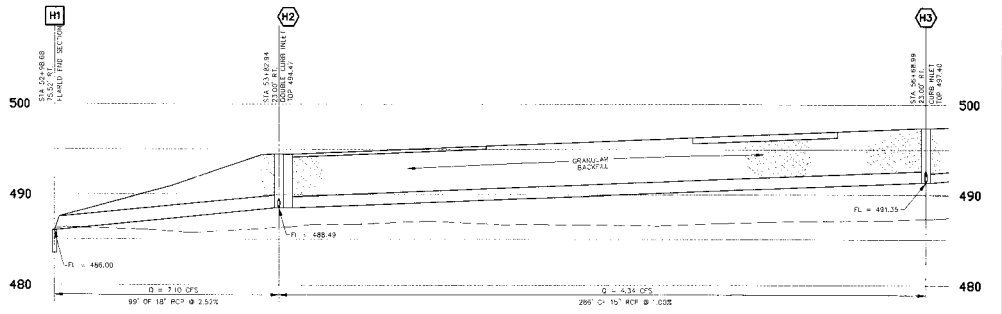
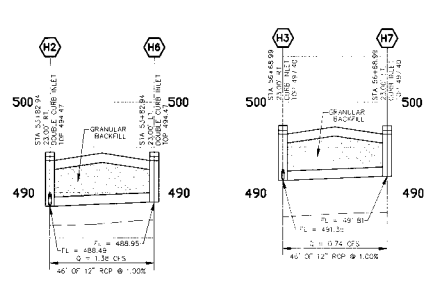
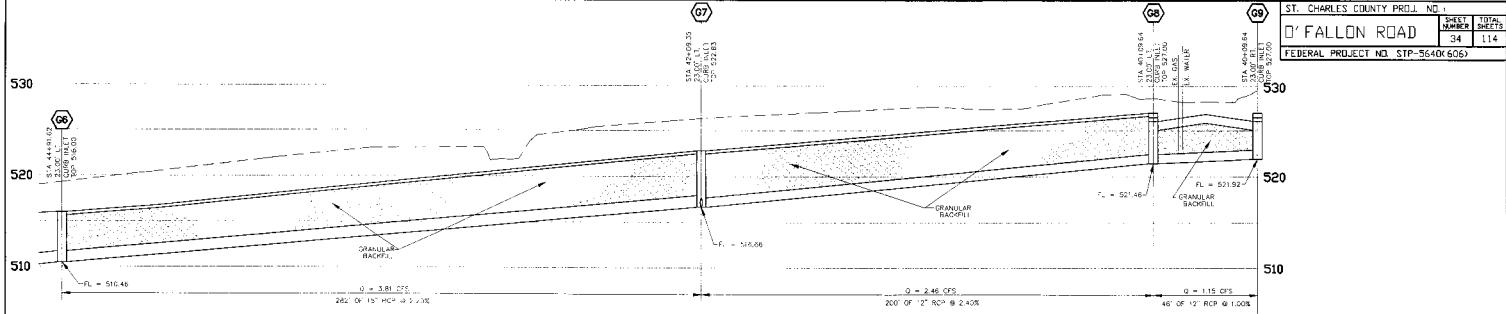
PROFILE

DATE	BY	CHECKED
10/1/03	JM	JK
PROJECT	NO.	SHEET
ST. CHARLES COUNTY	0' FALLON ROAD	32
DATE	BY	CHECKED
10/1/03	JM	JK

PLAT DATA

DATE	BY	CHECKED
10/1/03	JM	JK
PROJECT	NO.	SHEET
ST. CHARLES COUNTY	0' FALLON ROAD	32
DATE	BY	CHECKED
10/1/03	JM	JK





PLAN
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

PROP. LC
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

PLOT DATA
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

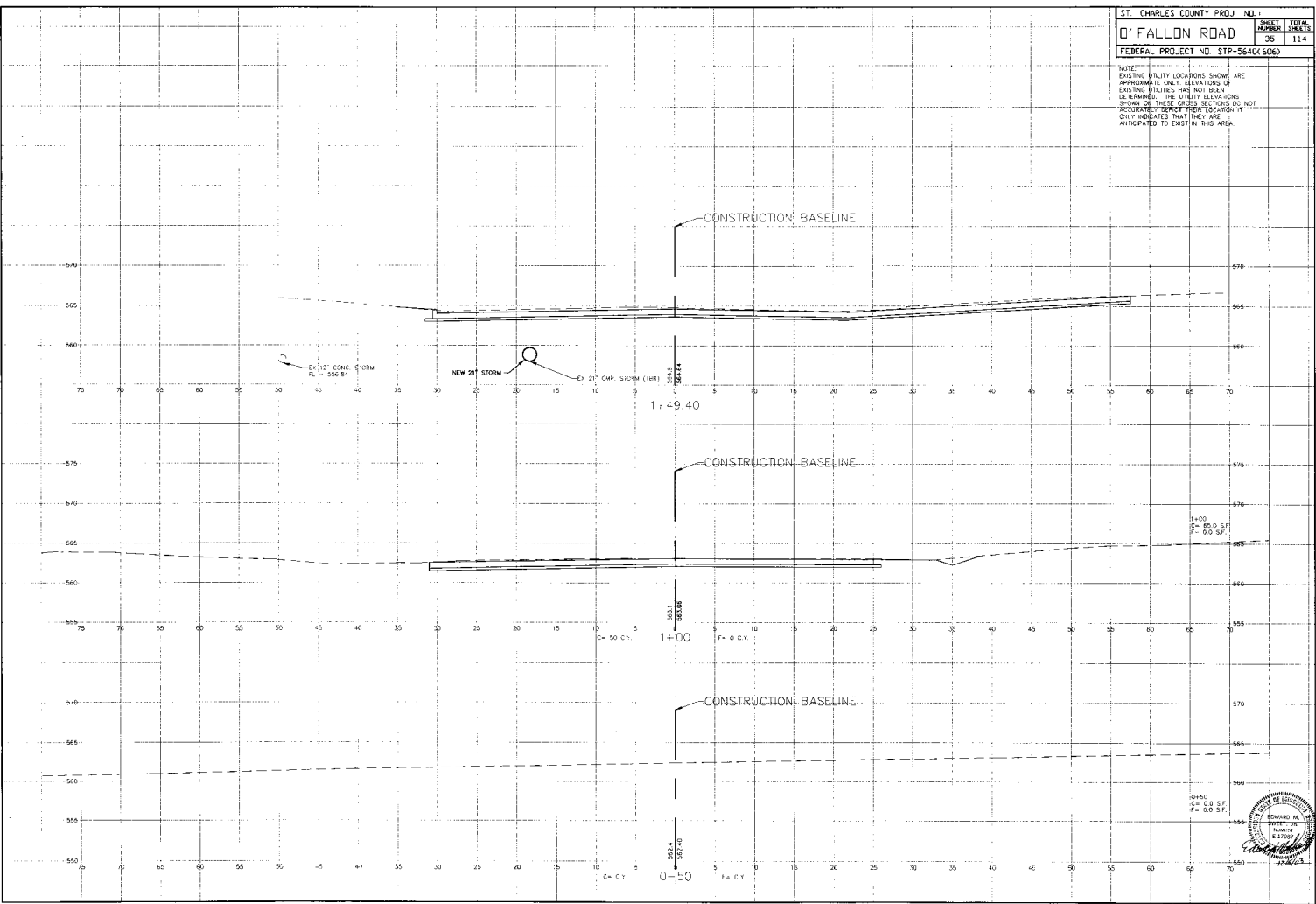


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. REMAINING OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REFLECT THEIR LOCATION. IT ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN DATE: _____ BY: _____
 CHECKED BY: _____
 IN CHARGE: _____

PROFILE DATE: _____ BY: _____
 CHECKED BY: _____
 IN CHARGE: _____

P.L.T. DATA: _____
 DATE: _____

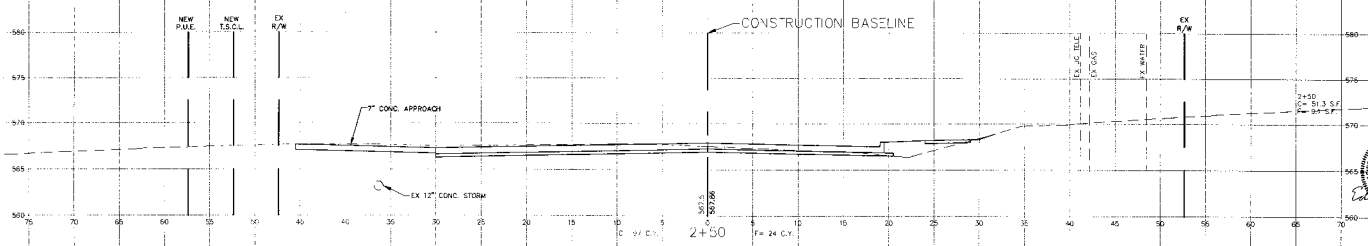
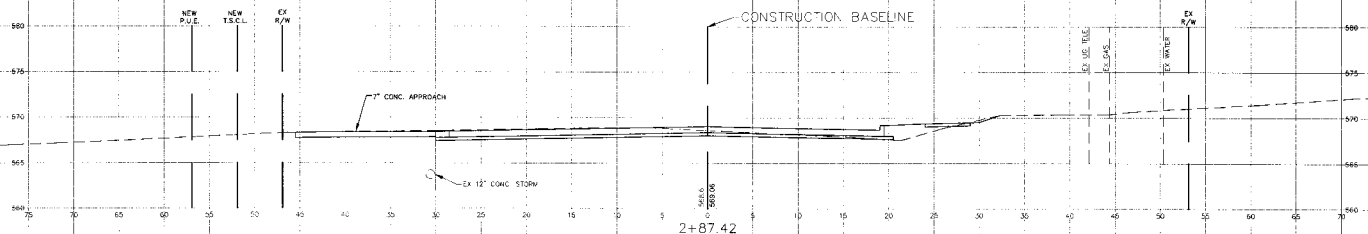
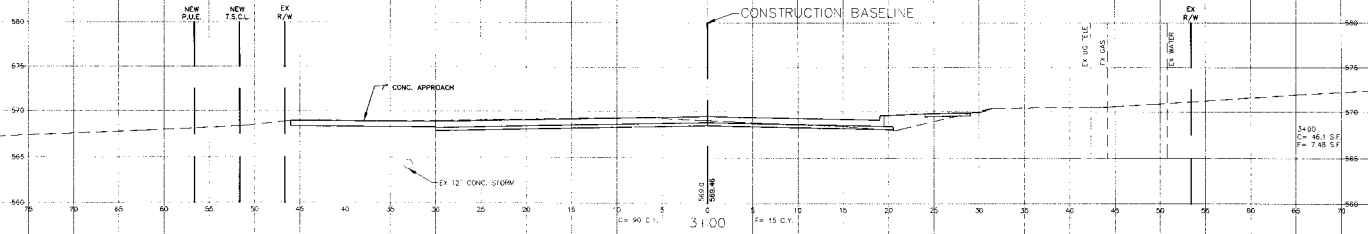


NOTE: EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REFLECT THEIR LOCATION. IT ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN	DATE
SECTION	BY
NO. 000	NO. 000

PROJECT	DATE
NO. 000	NO. 000

PLOT DATA	DATE
NO. 000	NO. 000

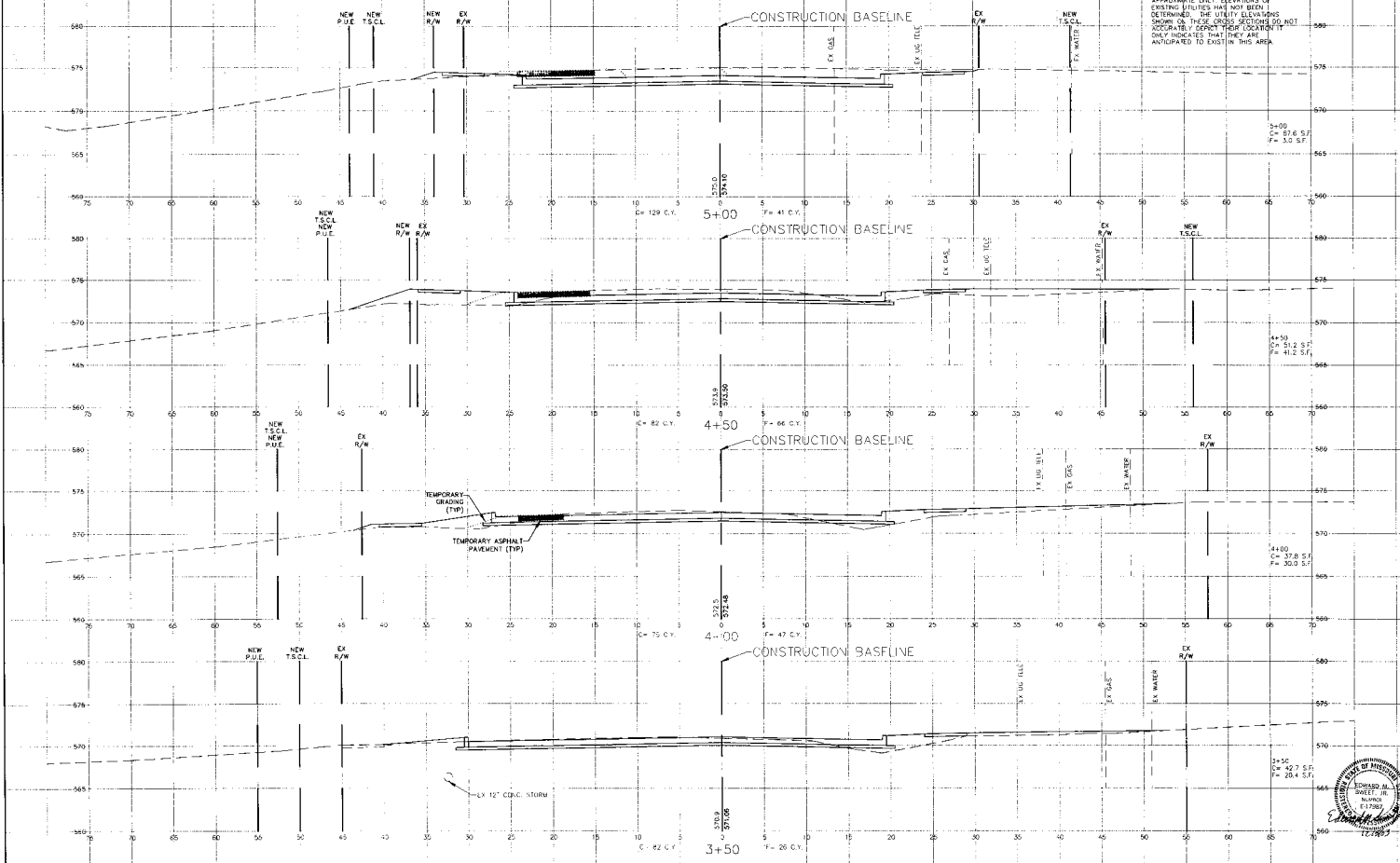


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE DEPTHS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY LOCATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REFLECT THEIR LOCATION. IT ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

DATE	NOV 10 2011
PROJECT	ST. CHARLES COUNTY FALLON ROAD
DESIGNER	STANTEC INC.
CHECKER	STANTEC INC.
SCALE	AS SHOWN

DATE	NOV 10 2011
PROJECT	ST. CHARLES COUNTY FALLON ROAD
DESIGNER	STANTEC INC.
CHECKER	STANTEC INC.
SCALE	AS SHOWN

DATE	NOV 10 2011
PROJECT	ST. CHARLES COUNTY FALLON ROAD
DESIGNER	STANTEC INC.
CHECKER	STANTEC INC.
SCALE	AS SHOWN

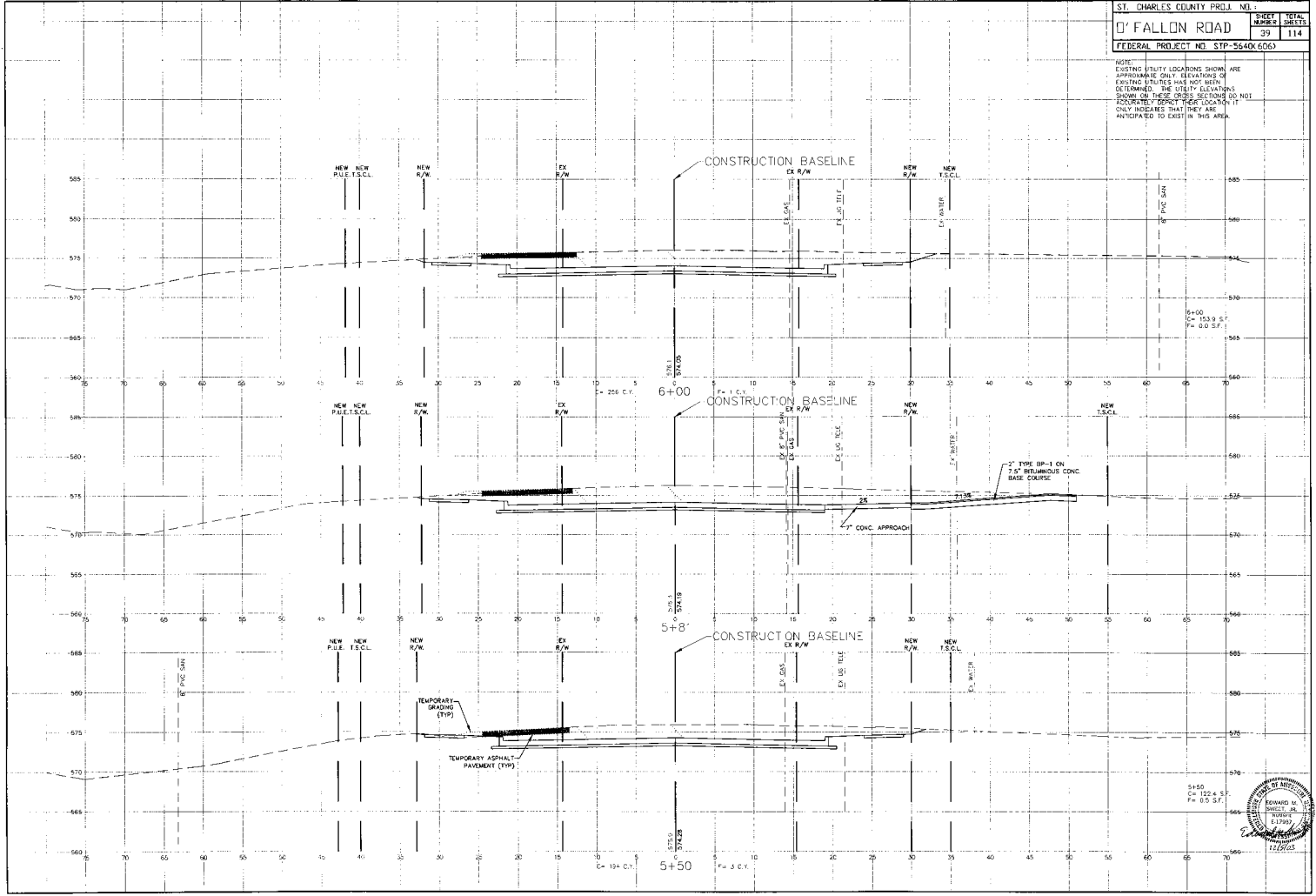


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE DRAWINGS SHOULD BE ACCURATE TO THESE CROSS SECTIONS IF ONLY UTILITIES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

SCALE	AS SHOWN
DATE	11/11/05
PROJECT NO.	STP-5640(606)
SHEET NO.	39
TOTAL SHEETS	114
DESIGNED BY	...
CHECKED BY	...
APPROVED BY	...

PROJECT NO.	STP-5640(606)
SHEET NO.	39
TOTAL SHEETS	114
DATE	11/11/05
DESIGNED BY	...
CHECKED BY	...
APPROVED BY	...

DATE	11/11/05
SCALE	AS SHOWN
PROJECT NO.	STP-5640(606)
SHEET NO.	39
TOTAL SHEETS	114

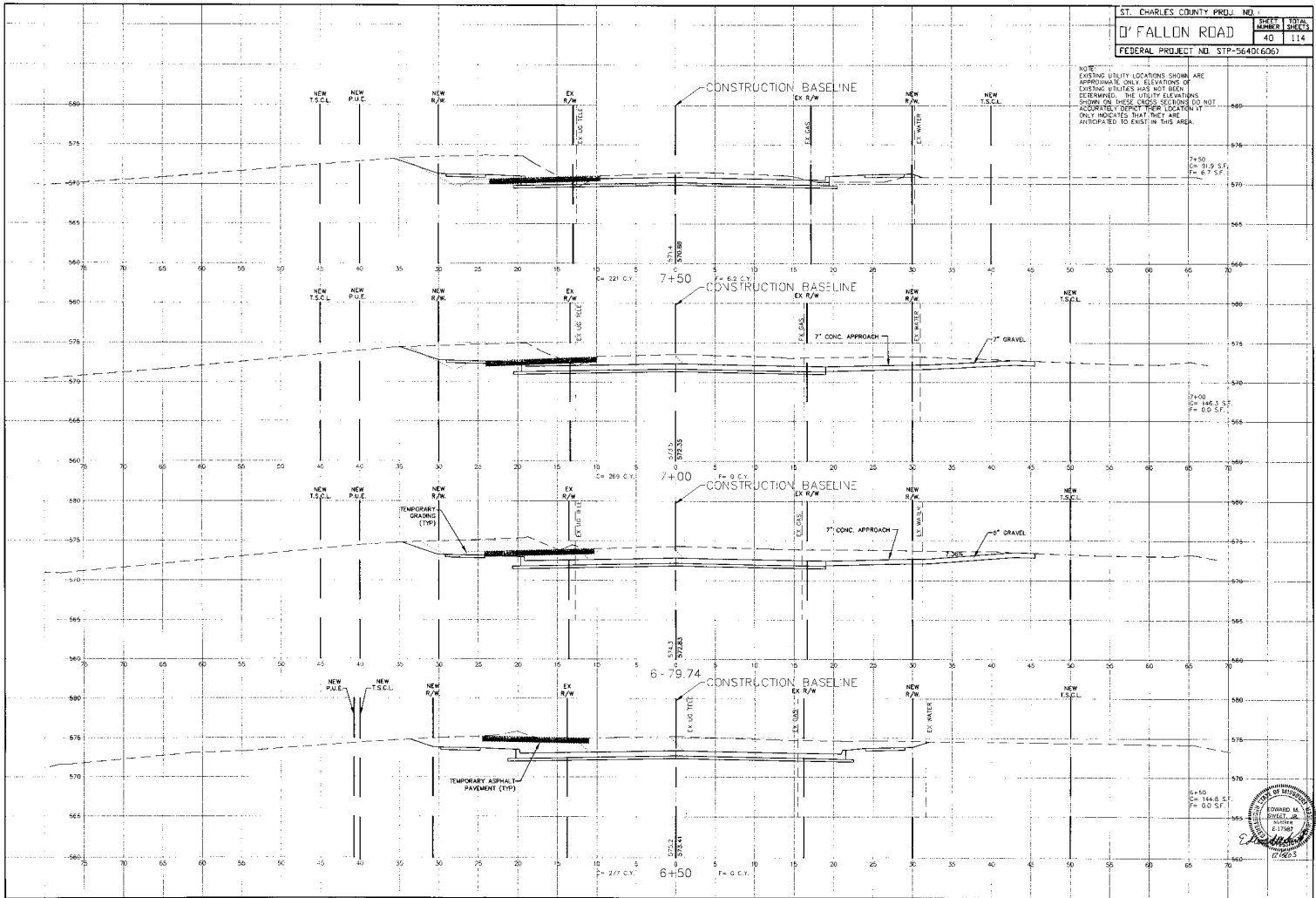


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. ONLY ELEVATIONS OF EXISTING UTILITIES HAVE NOT BEEN DETERMINED. THE UTILITY LOCATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REFLECT THEIR LOCATION. IT ONLY INDICATES THAT THEY ARE INTEGRATED TO EXIST IN THIS AREA.

DATE	
BY	
CHECKED	
DESIGNED	
IN CHARGE	
PROJECT	
LOCATION	
DATE	
BY	
CHECKED	
DESIGNED	
IN CHARGE	

DATE	
BY	
CHECKED	
DESIGNED	
IN CHARGE	
PROJECT	
LOCATION	
DATE	
BY	
CHECKED	
DESIGNED	
IN CHARGE	

DATE	
BY	
CHECKED	
DESIGNED	
IN CHARGE	



7+50
 C= 51.9 SF
 P= 6.7 SF

7+00
 C= 146.3 SF
 P= 20 SF

6+50
 C= 144.8 SF
 P= 40 SF



NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. ONLY LOCATIONS OF EXISTING UTILITIES HAS BEEN DETERMINED. THE UTILITY LOCATIONS SHOWN ON THIS DRAWING DO NOT ACCURATELY REFLECT THEIR LOCATION. ONLY UTILITIES THAT ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN

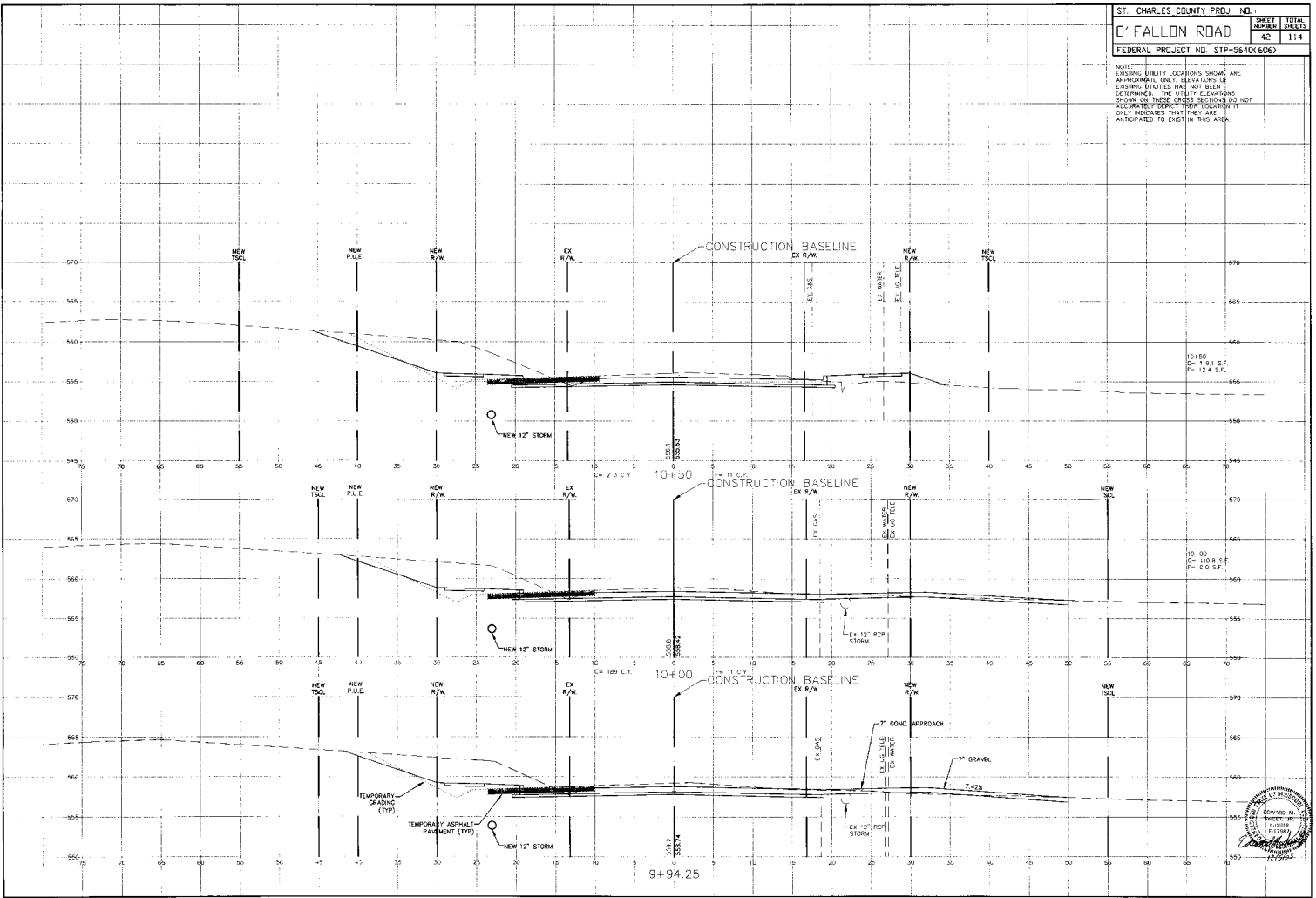
DATE	BY	CHKD
11/11/09	...	...
11/11/09	...	...
11/11/09	...	...

PROFILE

DATE	BY	CHKD
11/11/09	...	...
11/11/09	...	...
11/11/09	...	...

GRID DATA

DATE	BY	CHKD
11/11/09	...	...
11/11/09	...	...
11/11/09	...	...



10+50
 C = 118.5 F.
 P = 12.4 S.F.

10+00
 C = 118.5 F.
 P = 12.4 S.F.

9+94.25
 C = 118.5 F.
 P = 12.4 S.F.

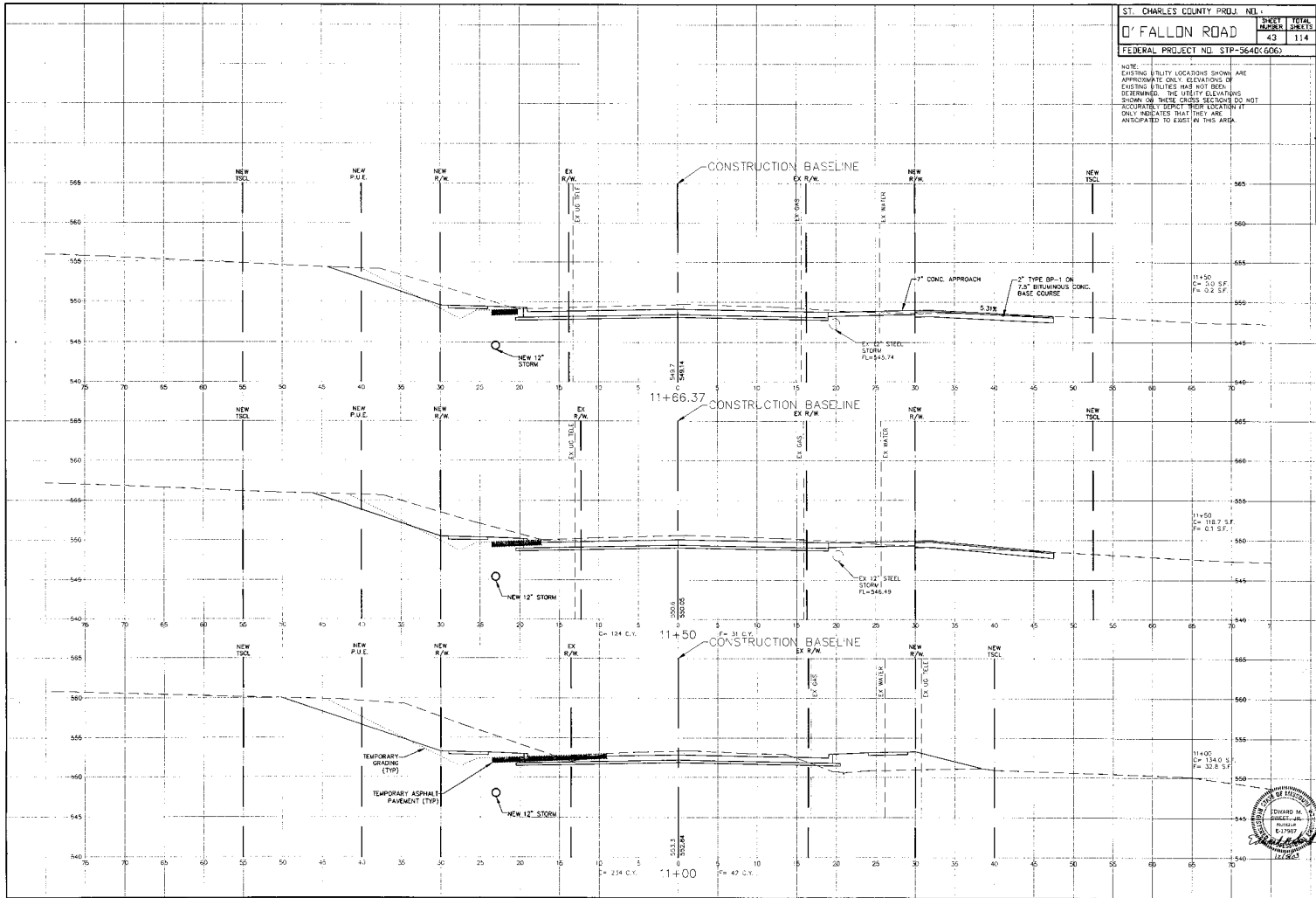


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAVE NOT BEEN DETERMINED. THE EXIST. ELEVATION SHOWN HEREON IS ONLY FOR INFORMATION AND DOES NOT ACCURATELY REFLECT THEIR LOCATION. ONLY NOTES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

DATE	BY
PROJECT NO.	NO. 000
DATE OF ISSUE	NOV 19 1968
BY	W. J. HARRIS
BY	W. J. HARRIS
BY	W. J. HARRIS

DATE	BY
PROJECT NO.	NO. 000
DATE OF ISSUE	NOV 19 1968
BY	W. J. HARRIS
BY	W. J. HARRIS
BY	W. J. HARRIS

DATE	BY
PROJECT NO.	NO. 000
DATE OF ISSUE	NOV 19 1968
BY	W. J. HARRIS
BY	W. J. HARRIS
BY	W. J. HARRIS



11+50
 C = 18.0 S.F.
 P = 0.1 S.F.

11+00
 C = 18.0 S.F.
 P = 12.8 S.F.

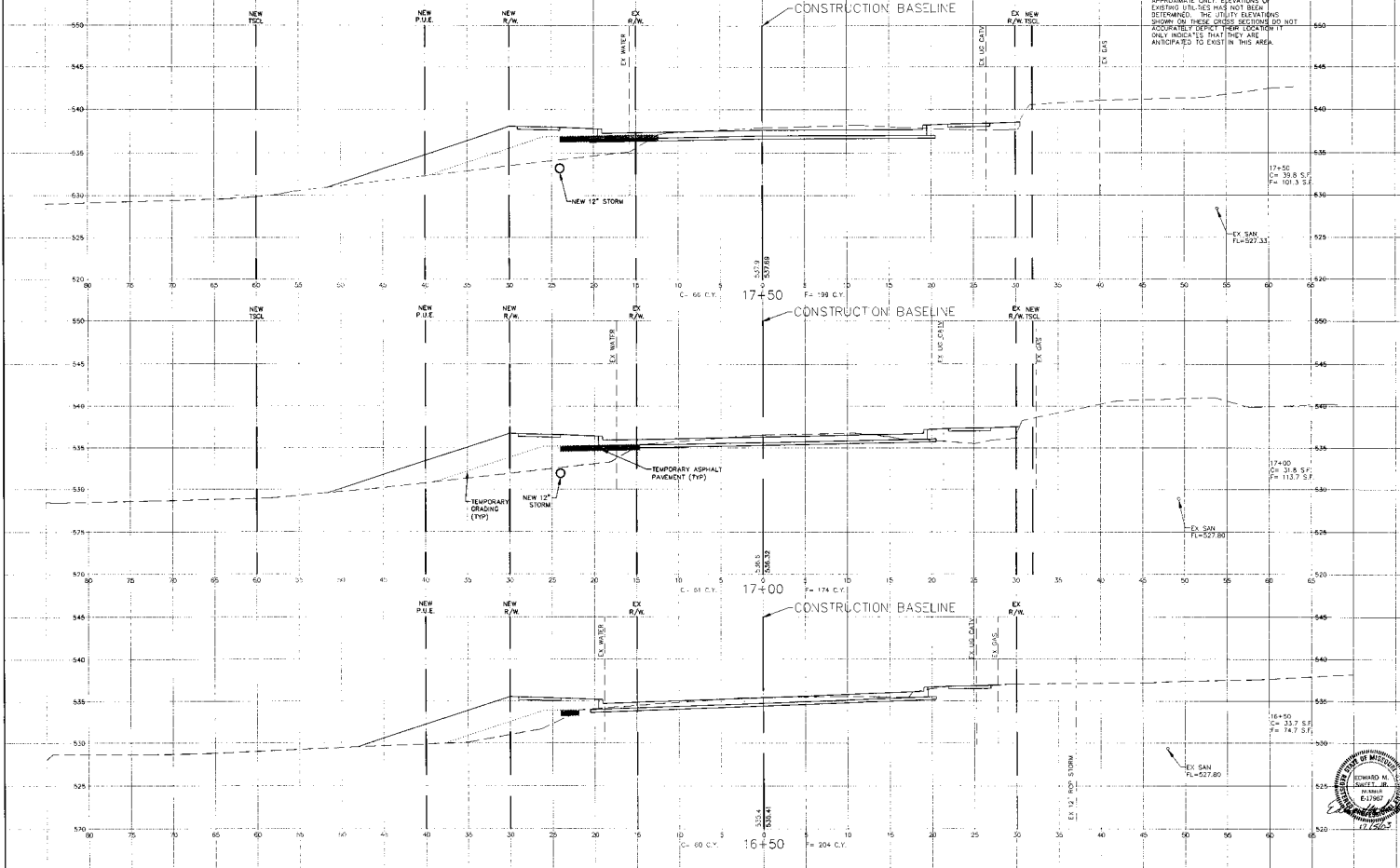


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE SHEETS ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTING UTILITY LOCATIONS AND ELEVATIONS. ONLY UTILITIES THAT ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN	DATE: 11/11/2014
SCALE: 1" = 40'	BY: [Signature]
PROJECT: ST. CHARLES COUNTY	PROJECT NO: STP-5640(606)
SHEET: 47	TOTAL SHEETS: 114

PROFILE	DATE: 11/11/2014
SCALE: 1" = 40'	BY: [Signature]
PROJECT: ST. CHARLES COUNTY	PROJECT NO: STP-5640(606)
SHEET: 47	TOTAL SHEETS: 114

PLAN DATA	DATE: 11/11/2014
SCALE: 1" = 40'	BY: [Signature]
PROJECT: ST. CHARLES COUNTY	PROJECT NO: STP-5640(606)
SHEET: 47	TOTAL SHEETS: 114



17+50
 C = 39.8 SF
 F = 101.5 SF

17+00
 C = 38.8 SF
 F = 113.7 SF

16+50
 C = 33.7 SF
 F = 74.7 SF

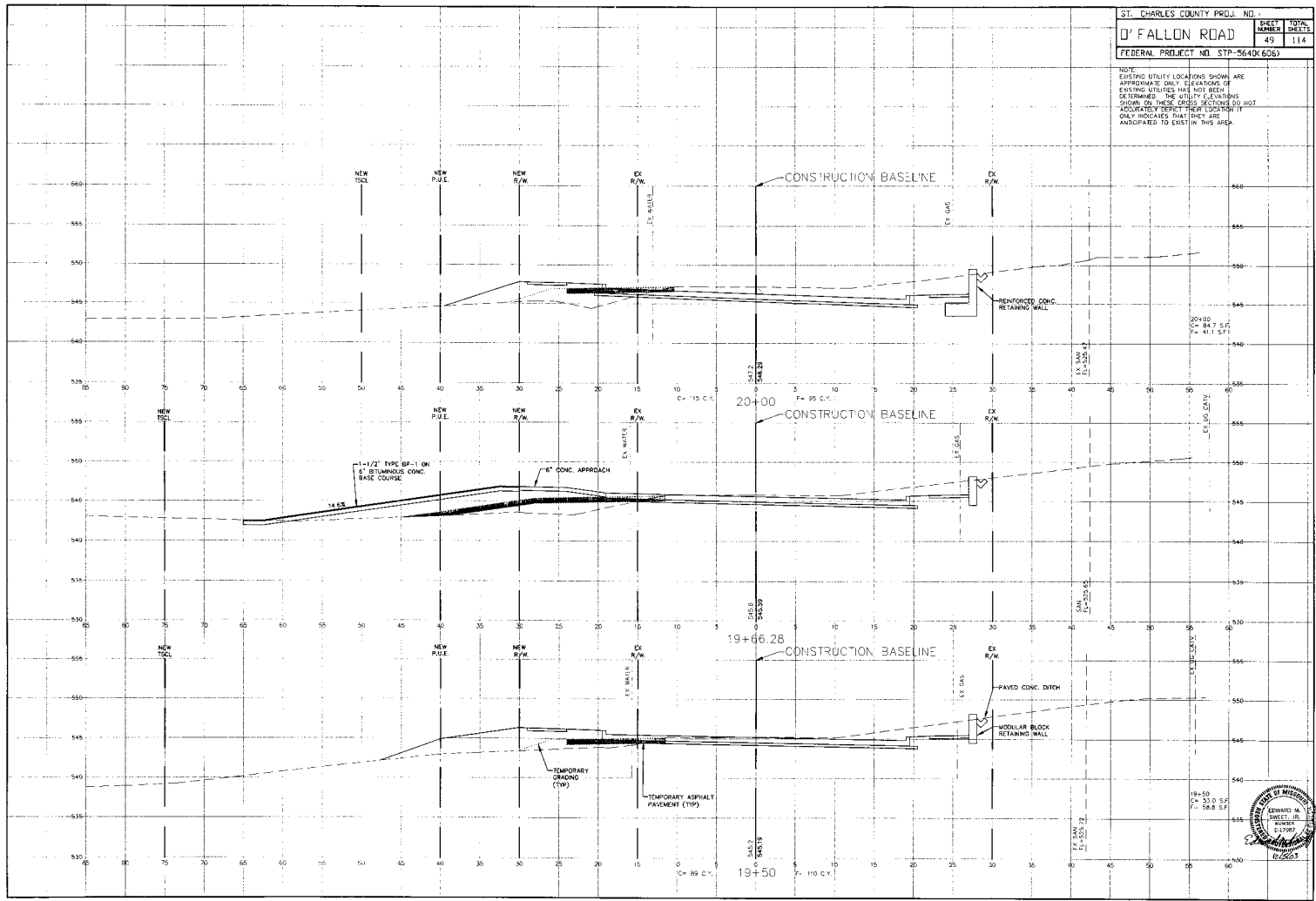


NOTE: EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY LOCATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REPRESENT LOCATIONS ONLY INDICATED THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN	DATE
PROJECT NO.	DATE
DESIGNER	DATE
CHECKER	DATE
APPROVER	DATE

PROFILE	DATE
PROJECT NO.	DATE
DESIGNER	DATE
CHECKER	DATE
APPROVER	DATE

CROSS DATA	DATE
PROJECT NO.	DATE
DESIGNER	DATE
CHECKER	DATE
APPROVER	DATE



NOTE: EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF POINTS OF THESE UTILITIES HAVE NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE SHEETS SHOULD BE USED AS AN INDICATION ONLY. THE UTILITY LOCATIONS ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

23+50
 C= 54.5 SF
 P= 10 SF

23+00
 C= 140.2 SF
 P= 0.0 SF

22+50
 C= 253.8 SF
 P= 0.0 SF

PLAN

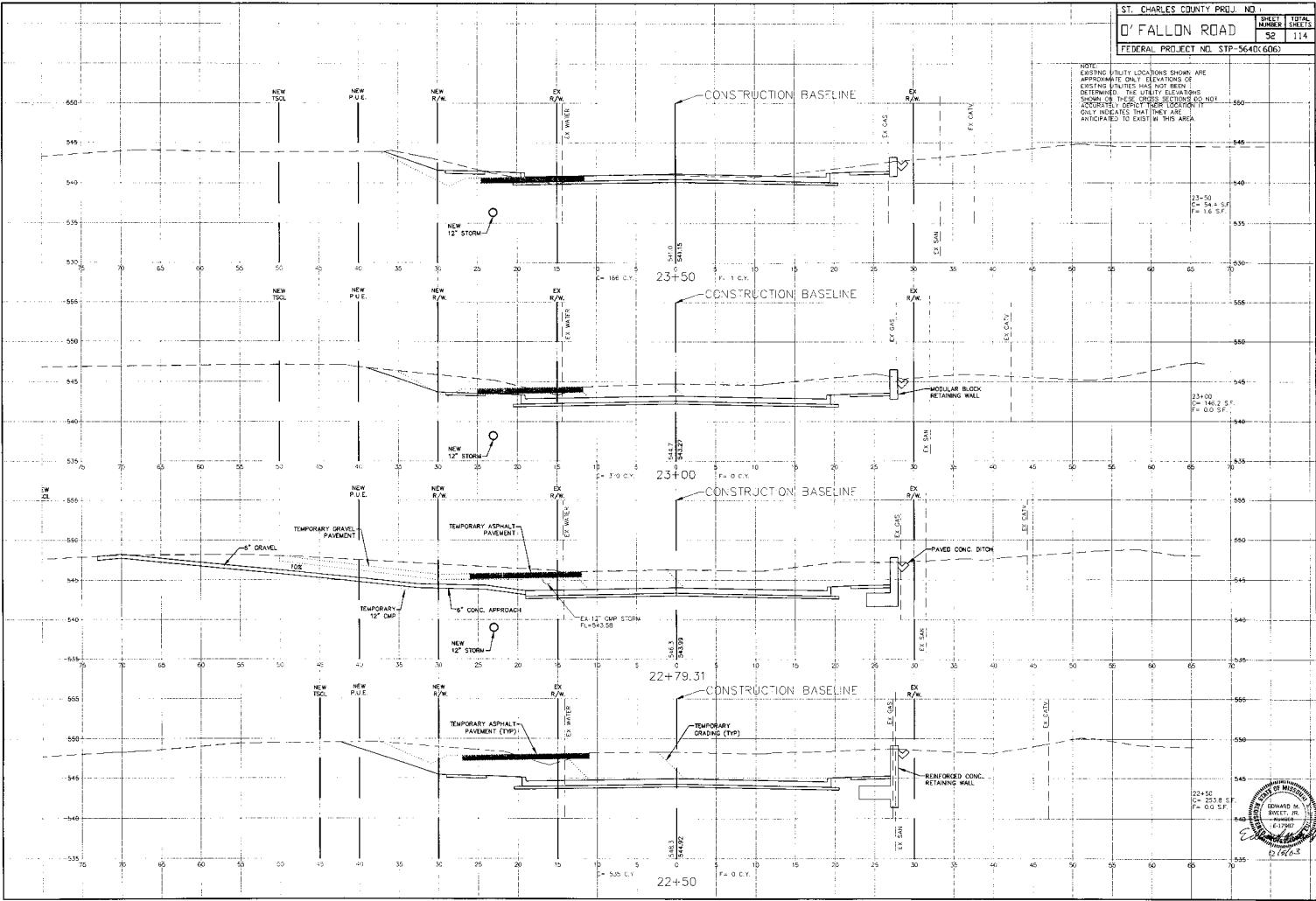
DATE	
BY	
CHECKED	
APPROVED	

PROFILE

DATE	
BY	
CHECKED	
APPROVED	

SCALE DATA

DATE	
BY	
CHECKED	
APPROVED	



NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE EXISTING ELEVATIONS SHOWN ON THIS DRAWING ARE NOT ACCURATE. VERIFY THEIR LOCATIONS ONLY INDICATE THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

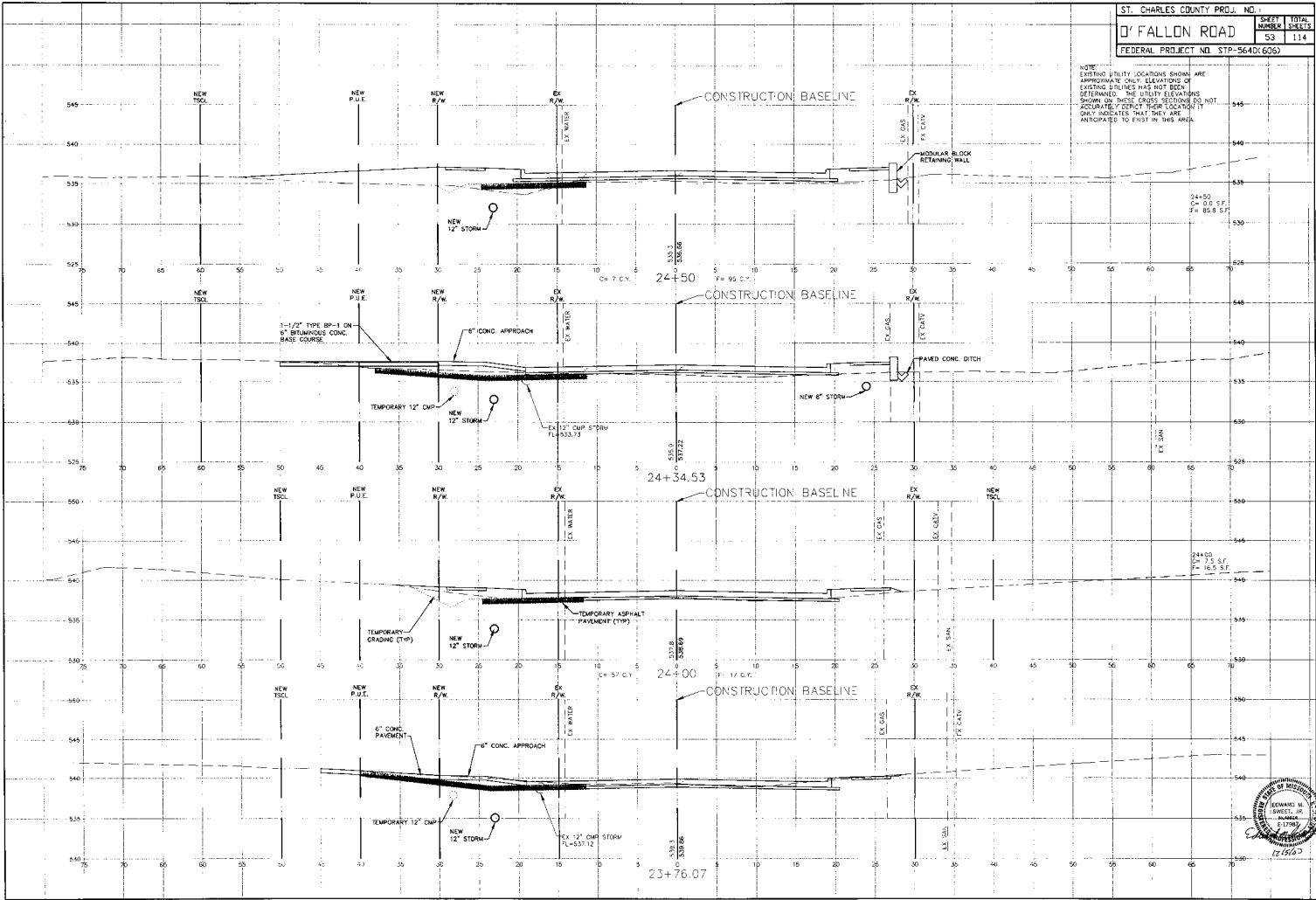
24+50
 C= 0.6 SF
 F= 85.8 SF

24+50
 C= 7.5 SF
 F= 16.5 SF

PLAN	SECTION
ASPHALT DRIVEWAY	ASPHALT DRIVEWAY
CONCRETE DRIVEWAY	CONCRETE DRIVEWAY
TEMPORARY CRADING	TEMPORARY CRADING
TEMPORARY ASPHALT PAVEMENT	TEMPORARY ASPHALT PAVEMENT
TEMPORARY CONCRETE PAVEMENT	TEMPORARY CONCRETE PAVEMENT

PROJ. NO.	CONTRACT NO.	DATE
1350-2530-DWG	1209-2009	01-20-09
REV.	BY	DATE
1	...	...
2	...	...

PLAN DATE	SCALE
01-20-09	AS SHOWN

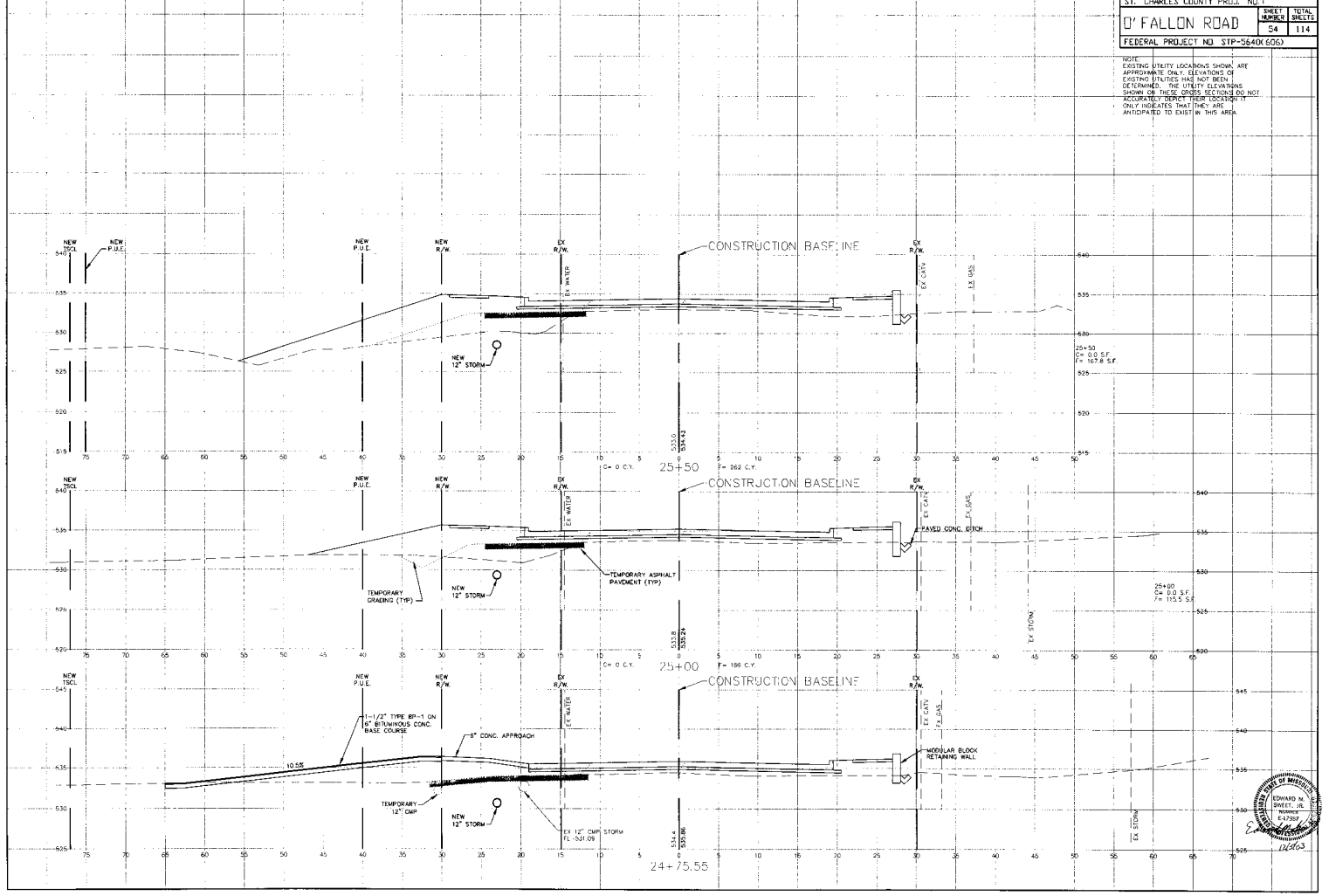


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REPRESENT THESE LOCATIONS. ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

SCALE	AS SHOWN
DATE	10/20/03
BY	...
CHECKED BY	...
APPROVED BY	...

PROJECT	D'FALLON ROAD
DATE	10/20/03
BY	...
CHECKED BY	...
APPROVED BY	...

DATE	10/20/03
BY	...
CHECKED BY	...
APPROVED BY	...

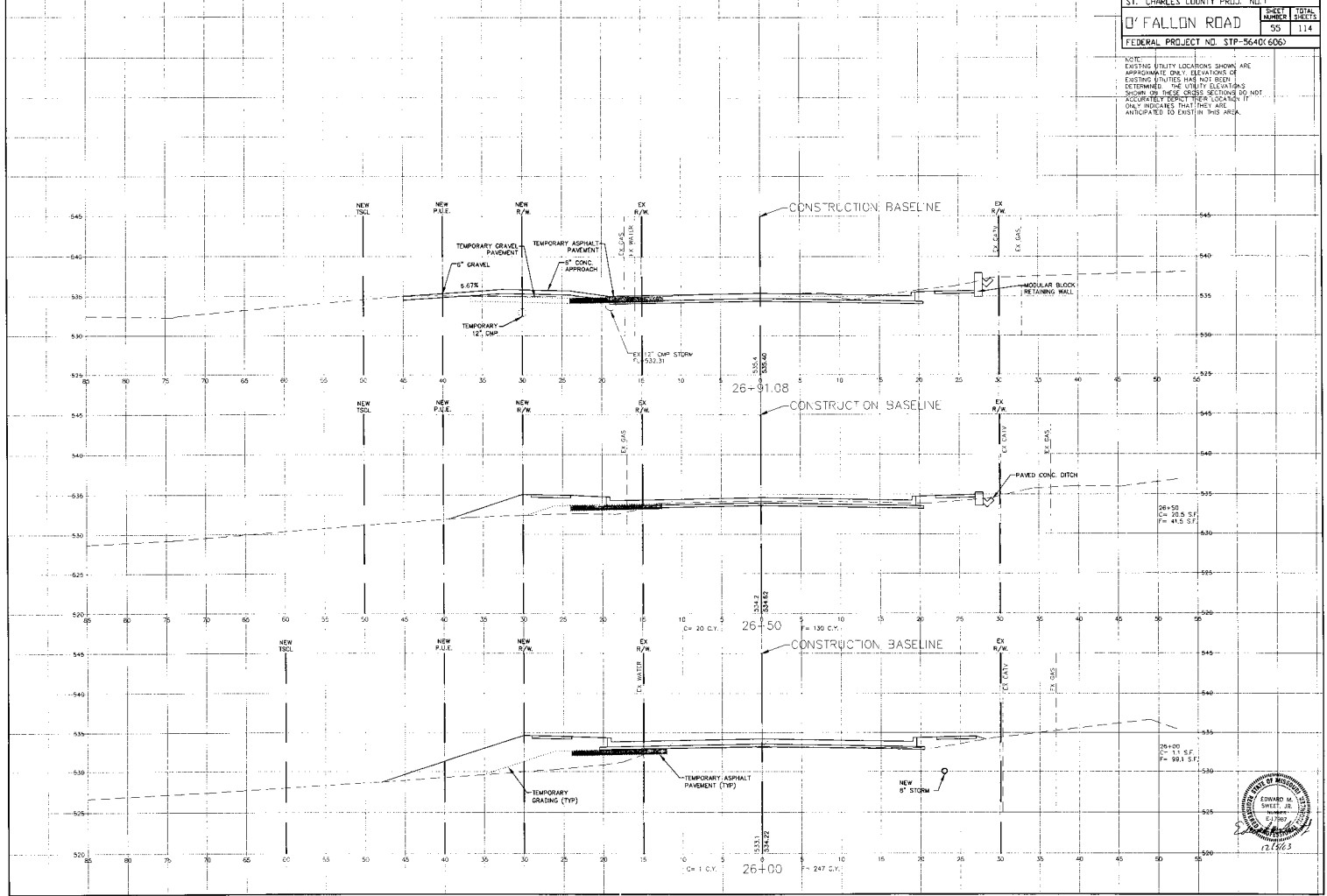


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAVE NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY EXPRESS THEIR LOCATION IF ONLY INDICATED THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN	DATE
DATE	DATE
DATE	DATE
DATE	DATE
DATE	DATE

PROJECT INFORMATION
PROJECT NO.
DATE
DATE
DATE
DATE
DATE

FLOI DATA
DATE
DATE
DATE
DATE
DATE

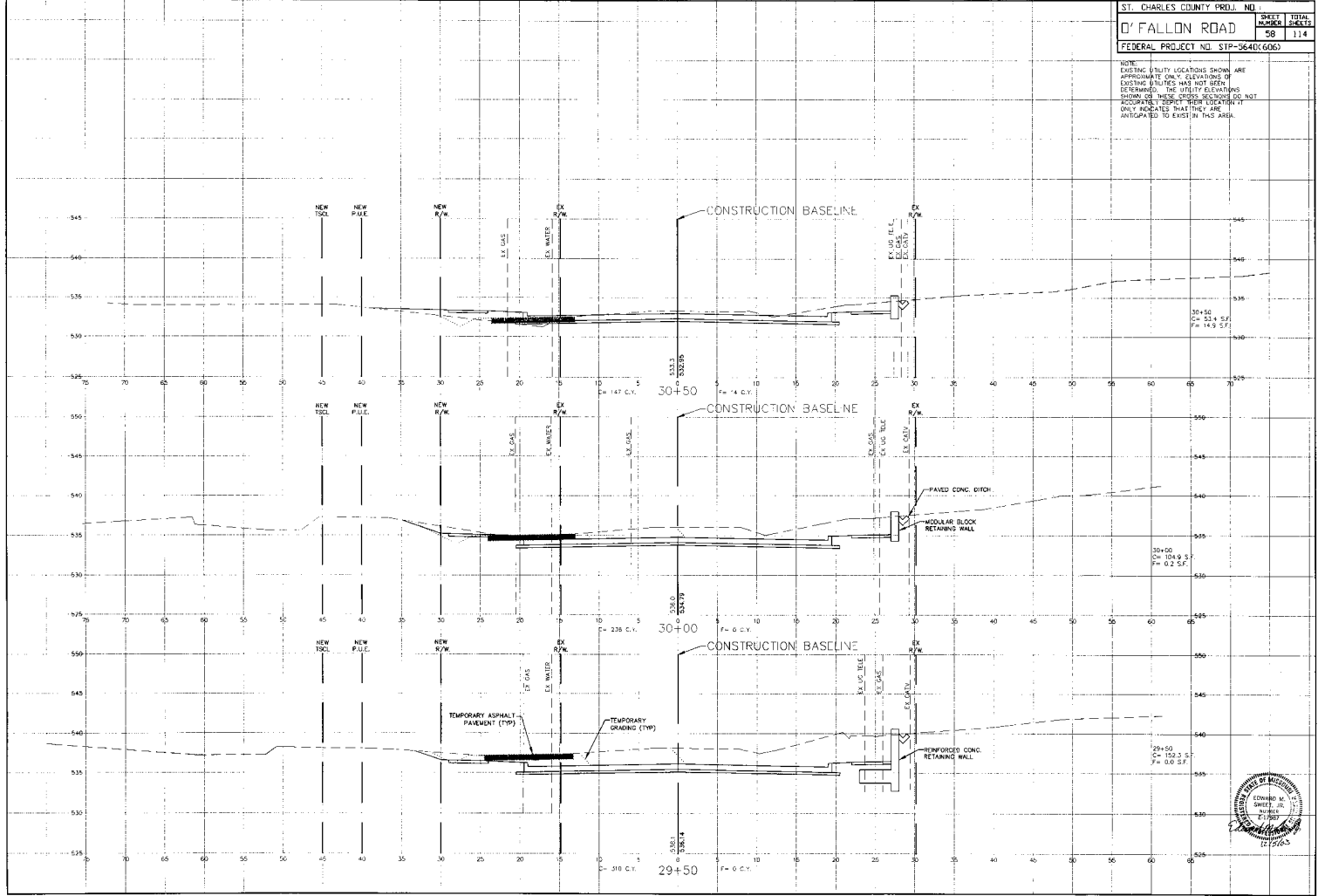


NOTE:
EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAVE NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY SHOW THEIR LOCATION. IT ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN	DATE:	BY:
REVISED:		
APPROVED:		
NEW SHEET		

PROFILE	DATE:	BY:
REVISED:		
APPROVED:		
NEW SHEET		

PLAT DATA	DATE:	BY:
REVISED:		
APPROVED:		
NEW SHEET		

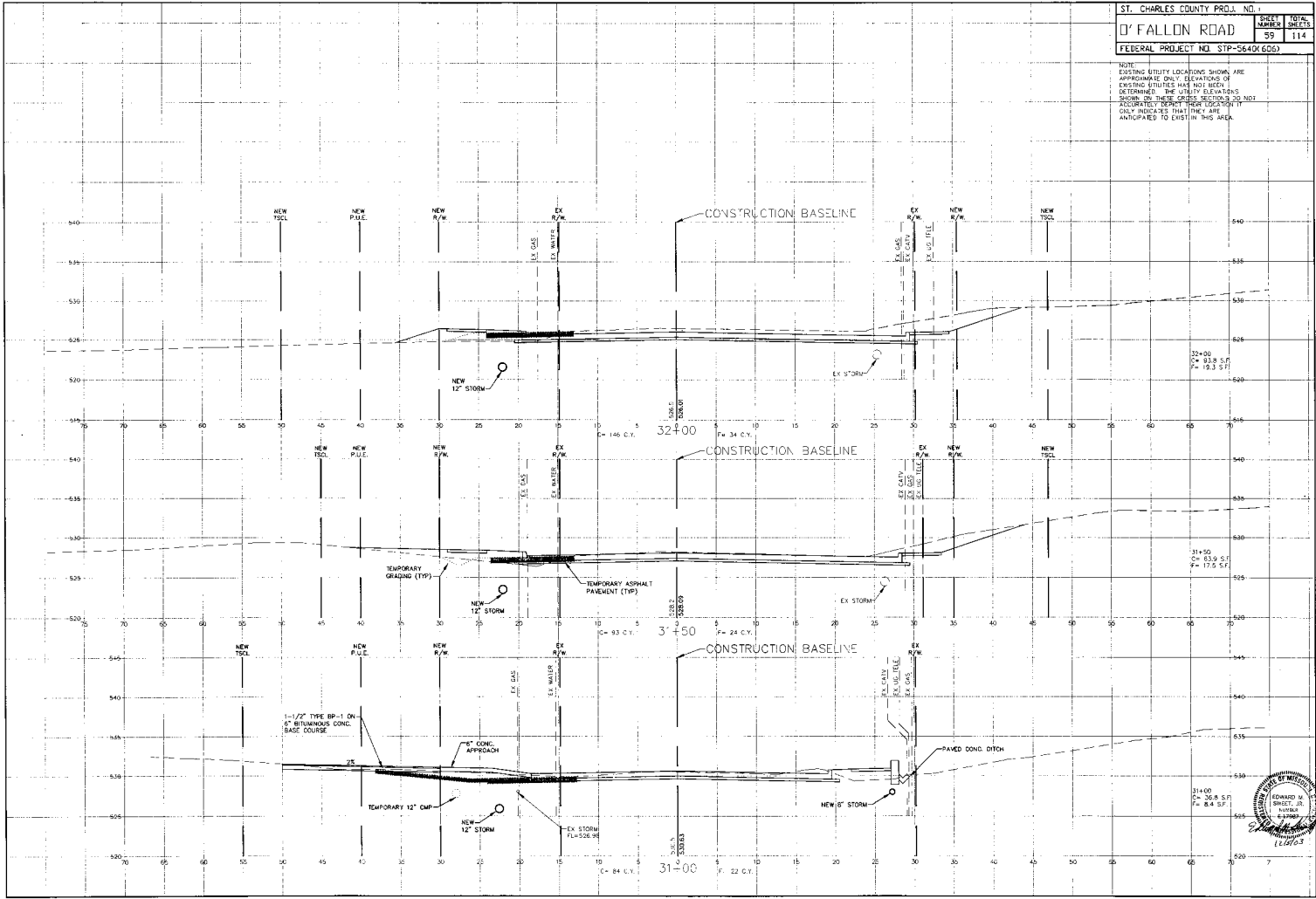


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REFLECT ELEVATIONS. ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLANS
 DATE: 08/11/2010
 TIME: 10:00 AM
 DRAWN BY: J. W. BROWN
 CHECKED BY: J. W. BROWN
 PROJECT NO.: STP-564(DX-GDS)

CROSS SECTION
 DATE: 08/11/2010
 TIME: 10:00 AM
 DRAWN BY: J. W. BROWN
 CHECKED BY: J. W. BROWN
 PROJECT NO.: STP-564(DX-GDS)

SECTION
 DATE: 08/11/2010
 TIME: 10:00 AM
 DRAWN BY: J. W. BROWN
 CHECKED BY: J. W. BROWN
 PROJECT NO.: STP-564(DX-GDS)

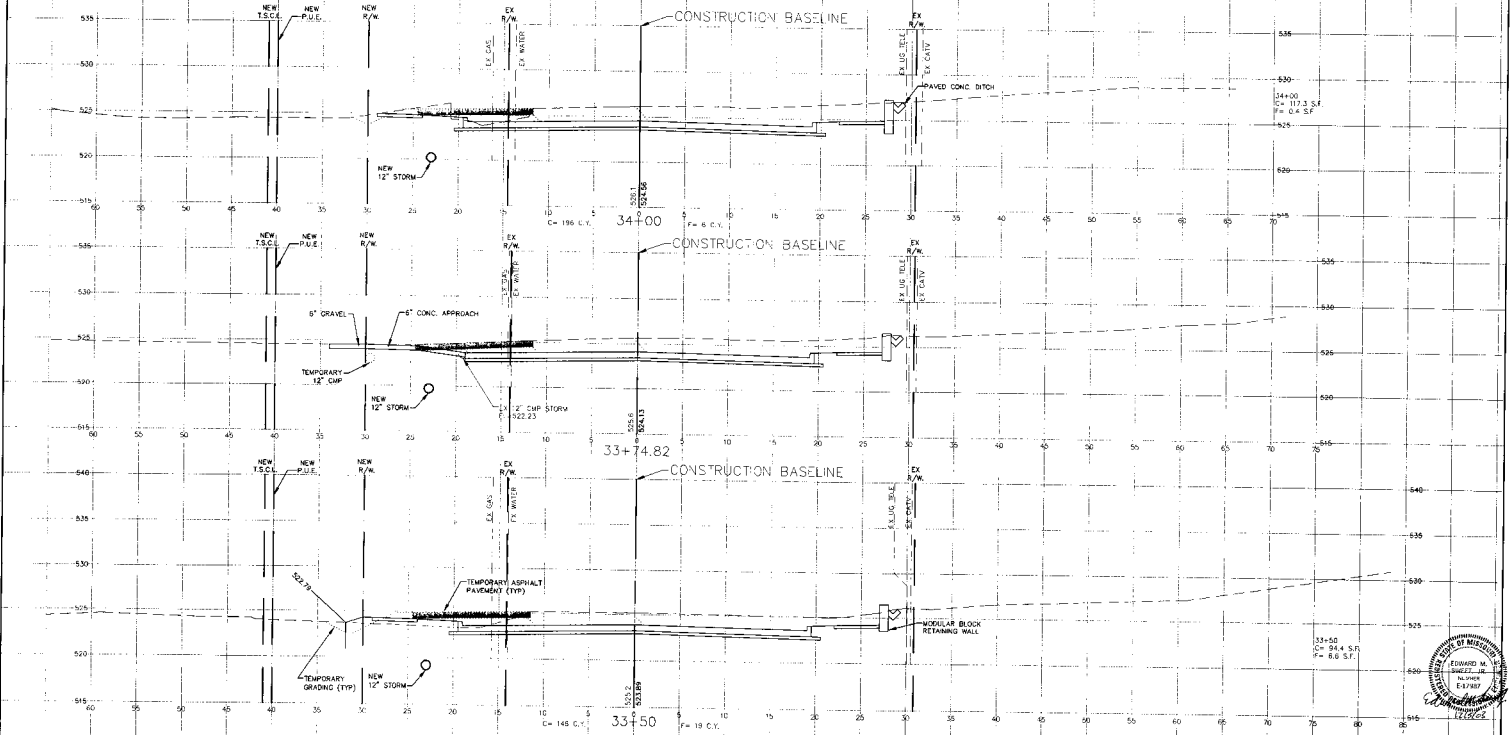


NOTE: EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY OPORT THEIR LOCATION IT ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PROJECT NO. 2008-0385-0201A
 DATE: 12/15/09
 DRAWN BY: J. W. HARRIS
 CHECKED BY: J. W. HARRIS
 APPROVED BY: J. W. HARRIS

PROJECT NO. 2008-0385-0201A
 DATE: 12/15/09
 DRAWN BY: J. W. HARRIS
 CHECKED BY: J. W. HARRIS
 APPROVED BY: J. W. HARRIS

PLANT DATA
 ROADWAY WIDTH: 40'-0"
 SHOULDER WIDTH: 10'-0"
 TOTAL WIDTH: 50'-0"



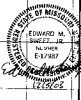
34+00
 C= 196 L.V.
 F= 6 C.V.

34+00

33+74.82

33+50
 C= 145 C.V.
 F= 19 C.V.

33+50
 C= 94.4 S.F.
 F= 6.0 S.F.

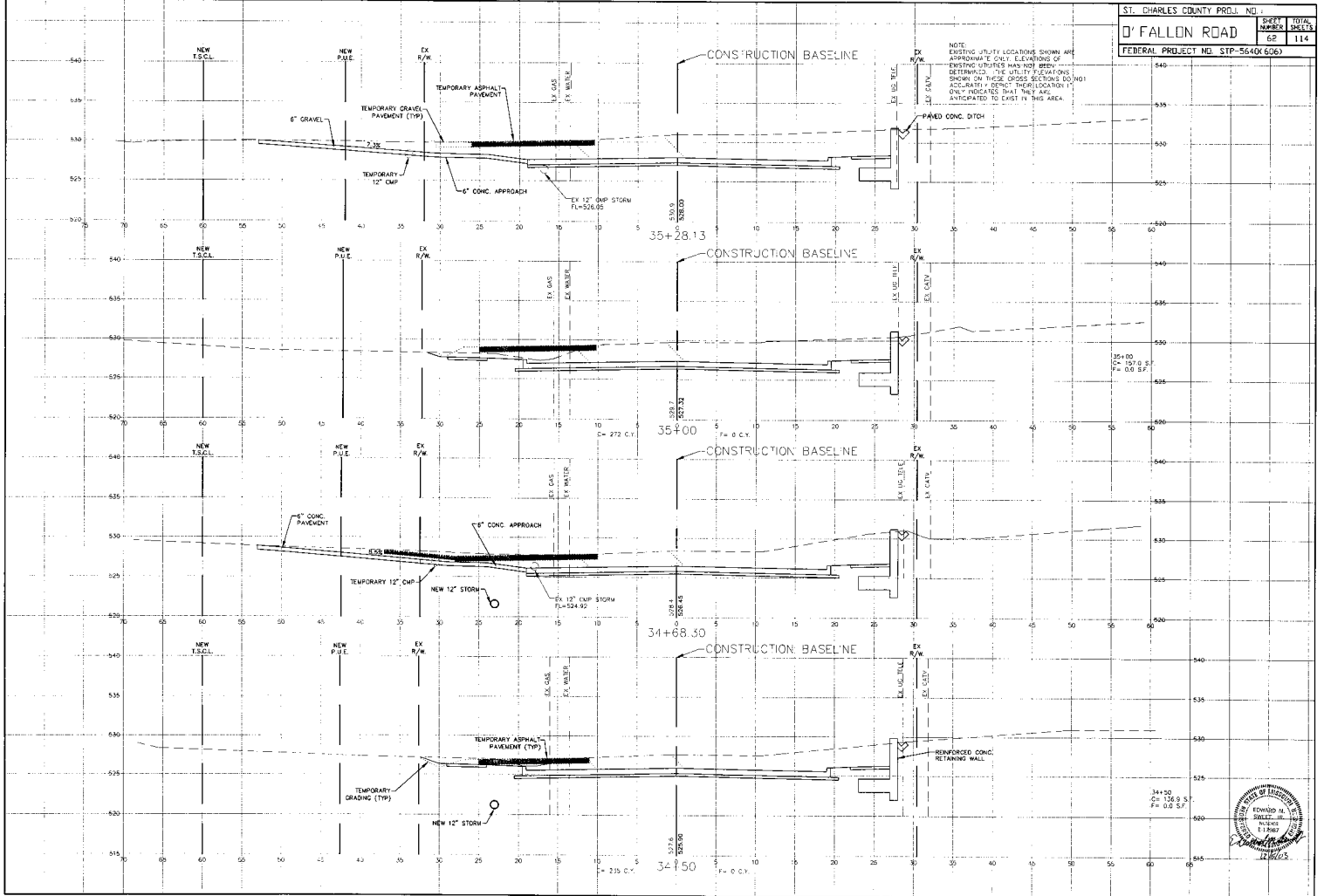


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE
 ESTIMATED. THE EXISTENCE OF
 EXISTING UTILITIES HAS NOT BEEN
 DETERMINED. THE UTILITY LOCATIONS
 SHOWN ON THESE CROSS SECTIONS DO NOT
 ACCURATELY REPRESENT THE EXACT
 ONLY INDICATES THAT THEY ARE
 ANTICIPATED TO EXIST IN THIS AREA.

PLAN	SECTION	DATE

PROFILE	SECTION	DATE

FIELD DATA	SECTION	DATE



35+00
 Ch 12.0 S
 F = 0.0 S.F.

34+20
 Ch 12.0 S
 F = 0.0 S.F.

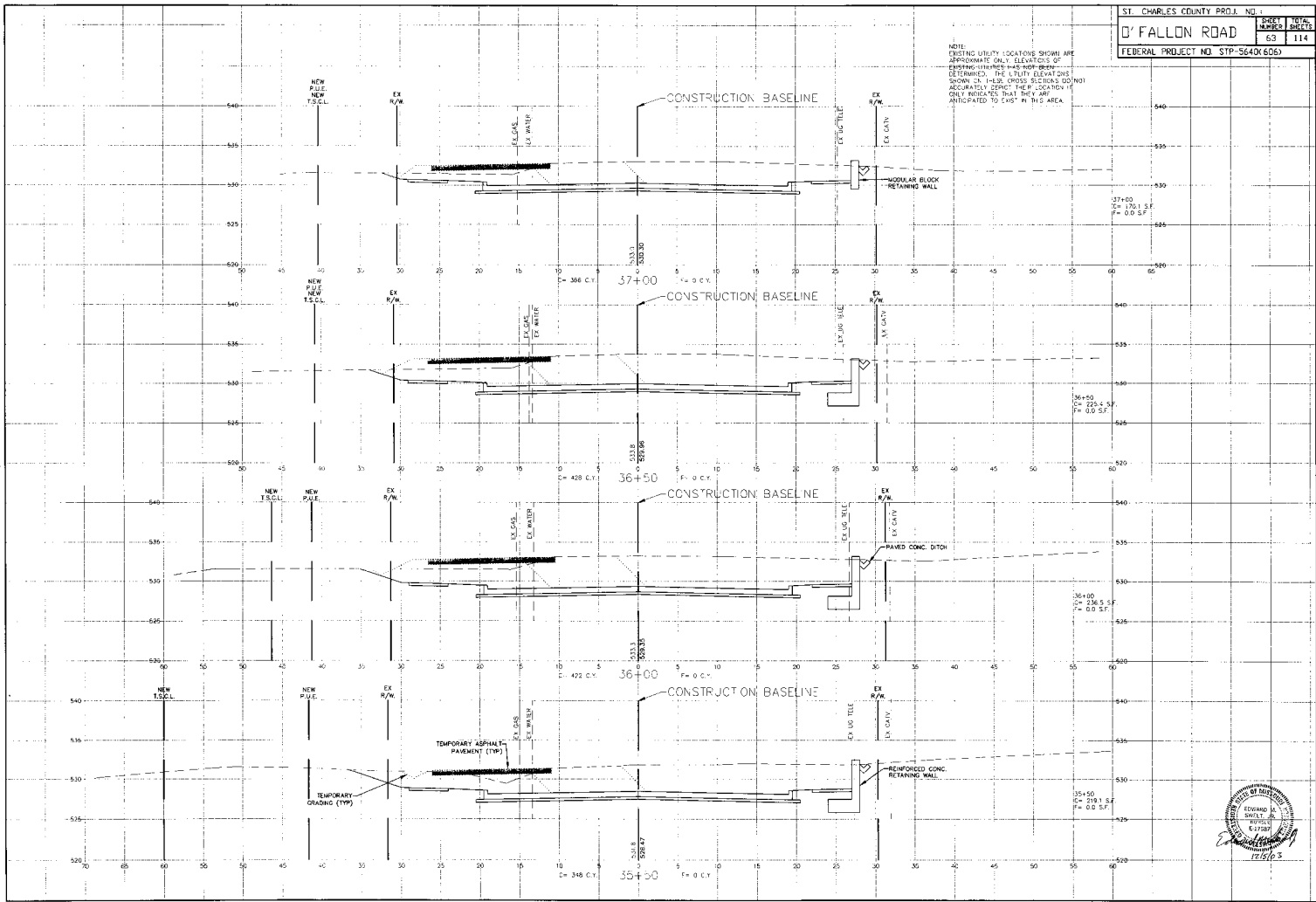


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAVE NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN IN THESE CROSS SECTIONS DO NOT ACCURATELY DEPICT THEIR LOCATION IF ONLY INDICATED THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN DATE: 11/11/09
 DRAWN BY: J. H. HARRIS
 CHECKED BY: J. H. HARRIS

PROFILE SURVEY: 11/11/09
 BY: J. H. HARRIS
 CHECKED BY: J. H. HARRIS

FILED DATA: 11/11/09
 BY: J. H. HARRIS
 CHECKED BY: J. H. HARRIS

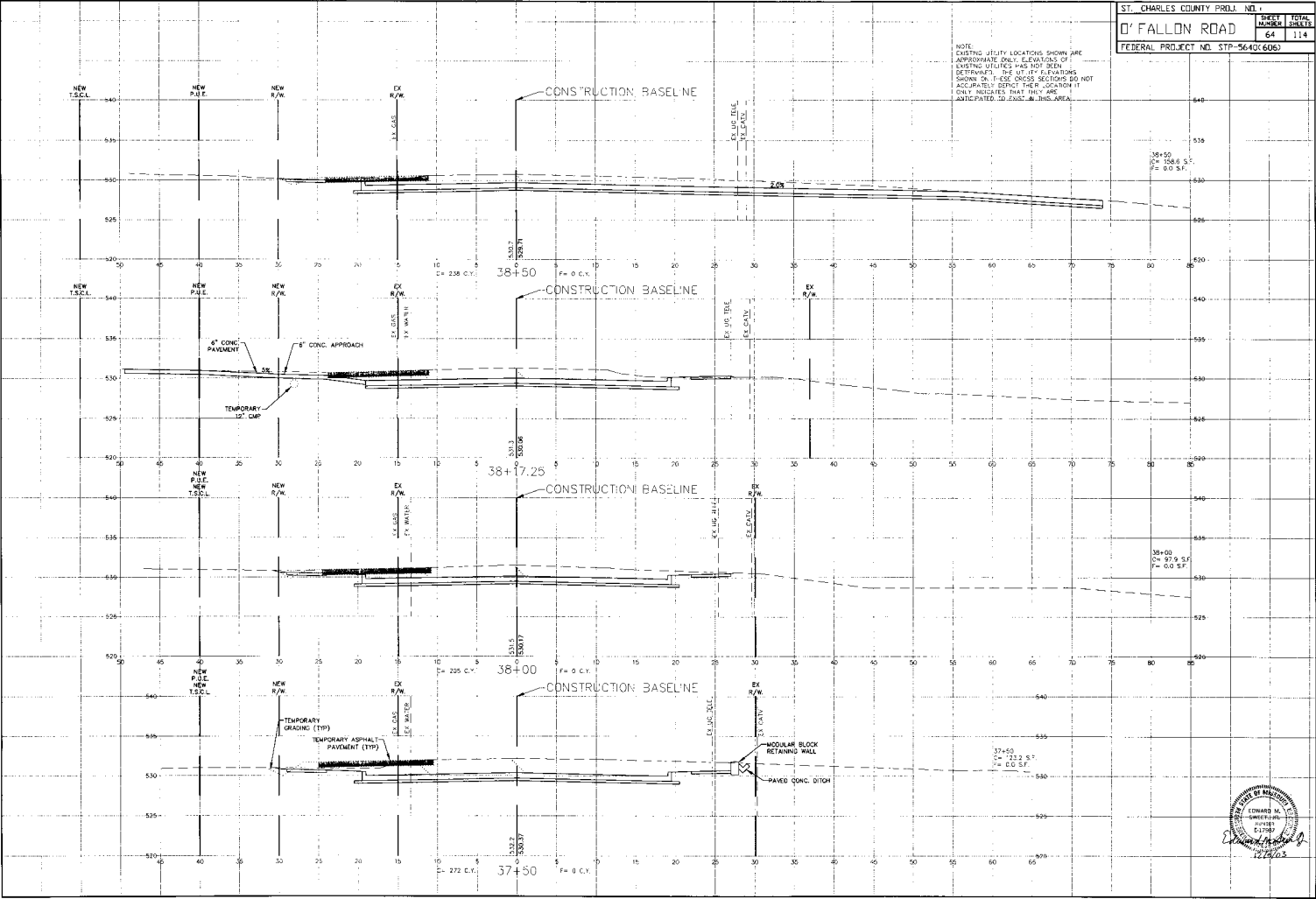


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE REVISIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REFLECT THEIR LOCATION. IT ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN
 SHEET NO. 64 OF 114 SHEETS
 PROJECT NO. STP-96-02(606)
 DATE: 11/15/95

PROFILE
 SHEET NO. 64 OF 114 SHEETS
 PROJECT NO. STP-96-02(606)
 DATE: 11/15/95

SCALE DATA
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 4'

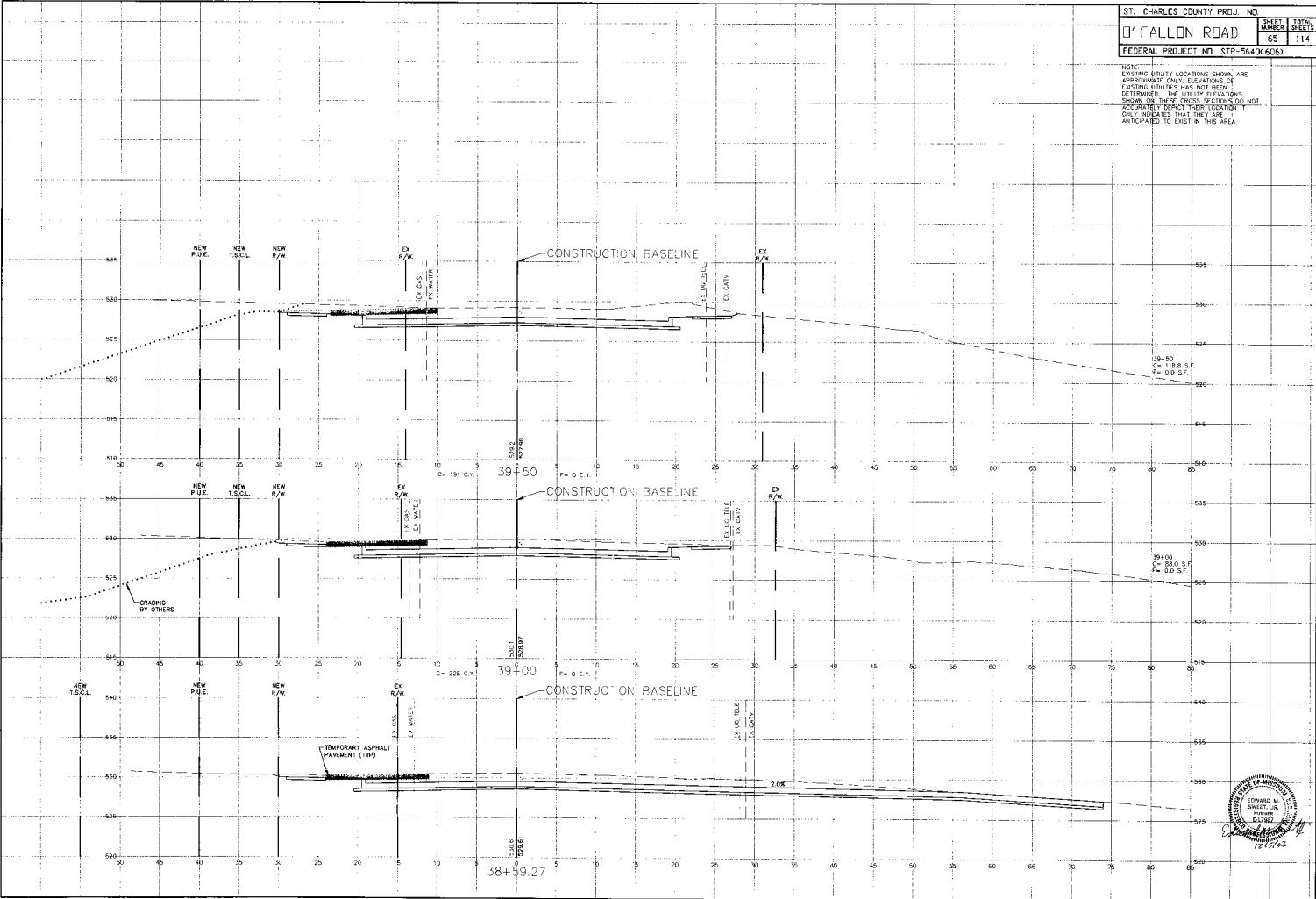


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY SHOW THEIR LOCATION. IT ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN	DATE	BY
AS BUILT		
REVISED		
DATE		
BY		

PROFILE	DATE	BY
AS BUILT		
REVISED		
DATE		
BY		

CROSS DATA	DATE	BY
AS BUILT		
REVISED		
DATE		
BY		

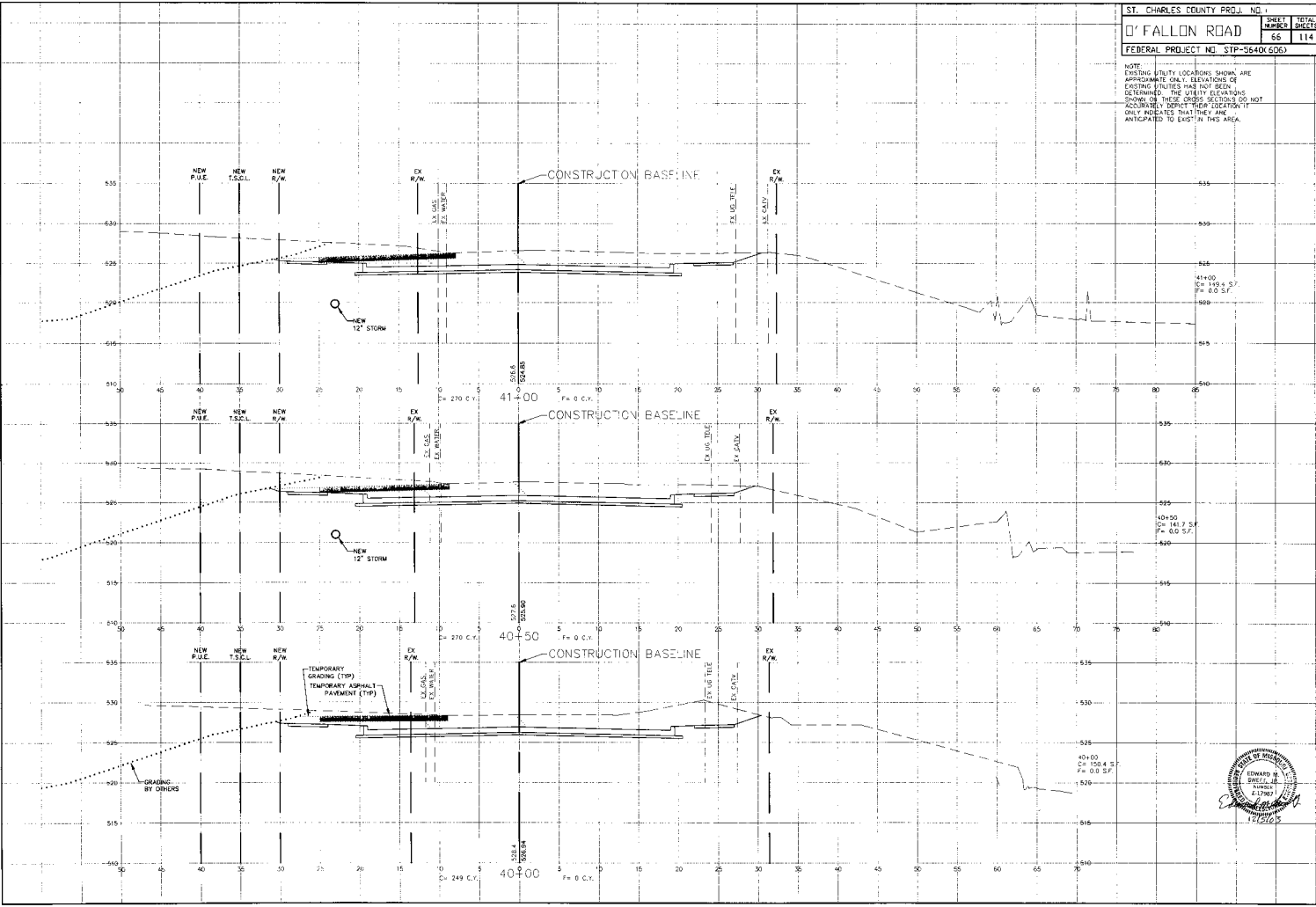


NOTE:
EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAVE NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REPRESENT THEIR LOCATION. IT ONLY INDICATES THEIR LOCATION AND ANTICIPATED TO EXIST IN THE AREA.

PLAN
DATE: 12/21/05
BY: [Signature]
CHECKED BY: [Signature]
SCALE: AS SHOWN

PROFILE
DATE: 12/21/05
BY: [Signature]
CHECKED BY: [Signature]
SCALE: AS SHOWN

CROSS DATA
DATE: 12/21/05
BY: [Signature]
CHECKED BY: [Signature]
SCALE: AS SHOWN



NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAVE NOT BEEN DETERMINED. THE QUALITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REFLECT THEIR LOCATION. IT ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN

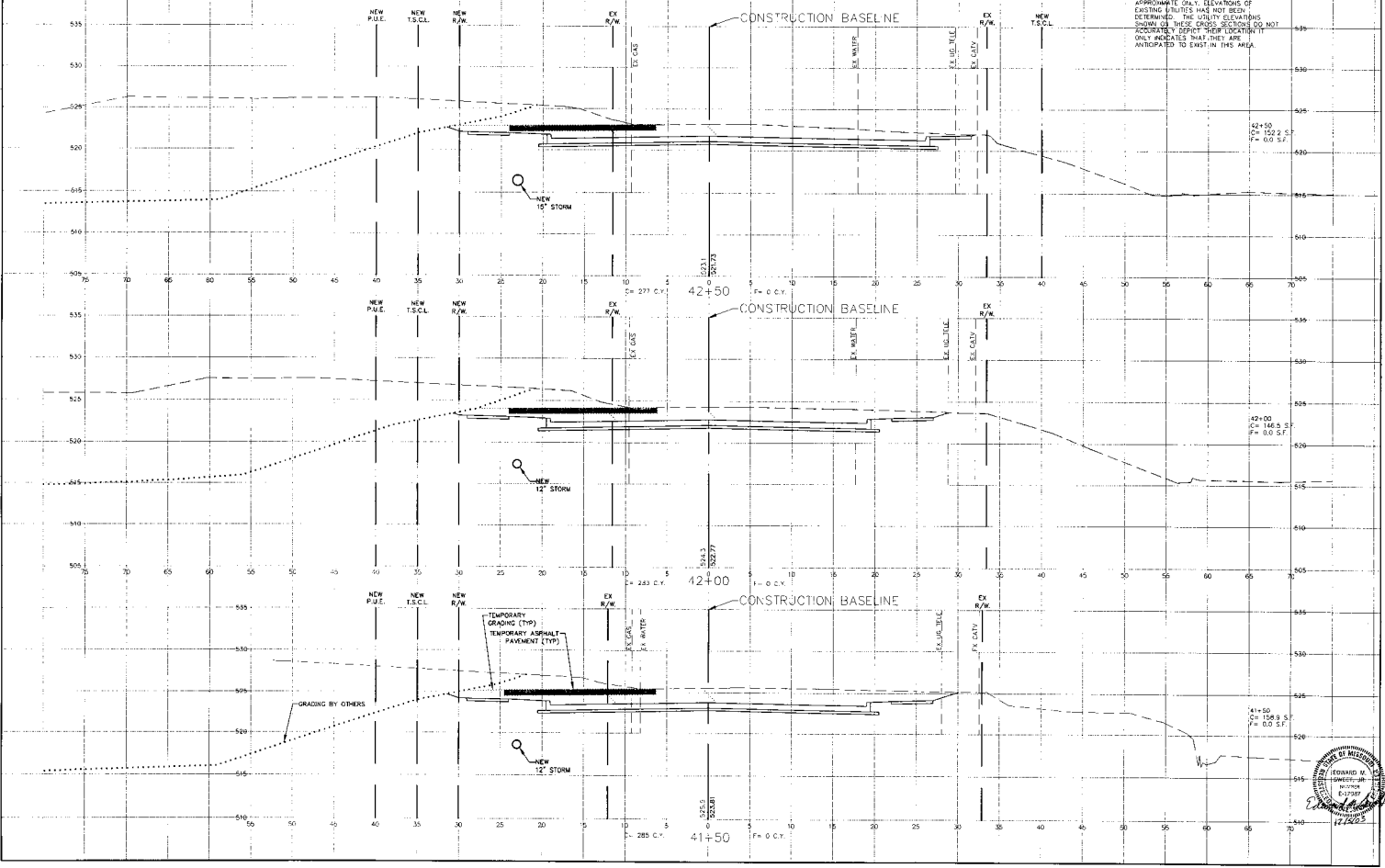
DATE	BY	CHECKED

PROFILE

DATE	BY	CHECKED

LOAD DATA

DATE	BY	CHECKED



42+50
 C = 152.2 S.F.
 F = 0.0 S.F.

41+00
 C = 146.5 S.F.
 F = 0.0 S.F.

40+50
 C = 159.9 S.F.
 F = 0.0 S.F.

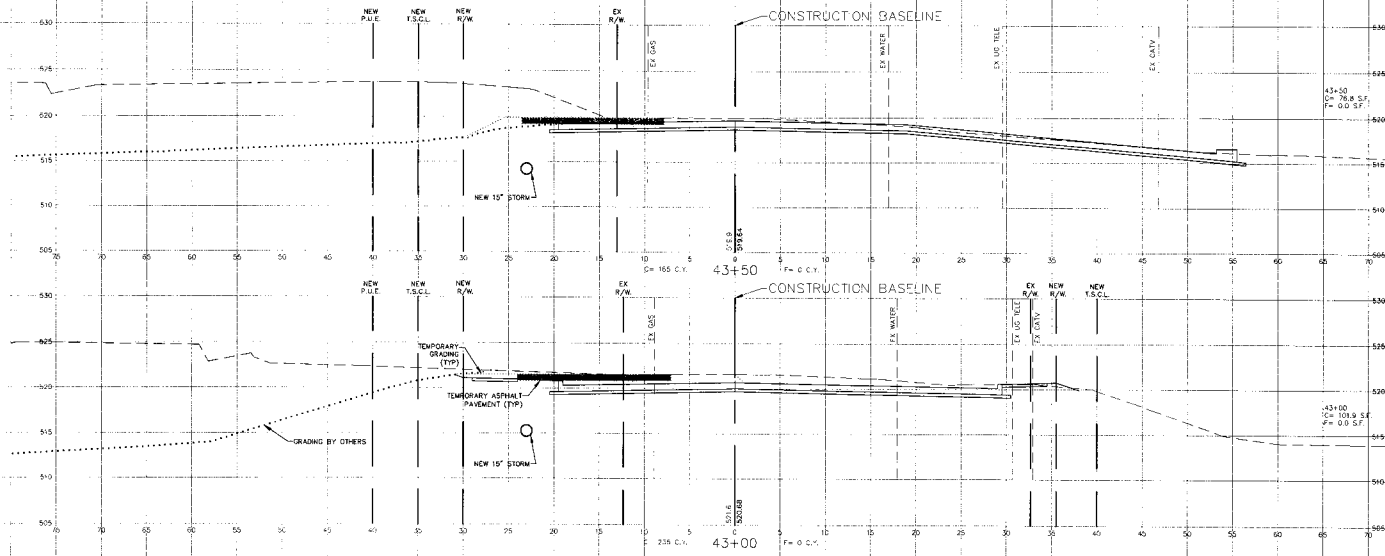


NOTE: EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES ARE BEING DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THIS DRAWING SECTION DO NOT ACCURATELY REFLECT THEIR LOCATION. ONLY INDICATE THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

DATE	10/15/10
BY	W. J. BROWN
CHECKED BY	W. J. BROWN
SCALE	AS SHOWN
PROJECT NO.	STP-564(D-606)
SHEET NO.	68
TOTAL SHEETS	114

SCALE	AS SHOWN
DATE	10/15/10
BY	W. J. BROWN
CHECKED BY	W. J. BROWN
PROJECT NO.	STP-564(D-606)
SHEET NO.	68
TOTAL SHEETS	114

DATE	10/15/10
BY	W. J. BROWN
CHECKED BY	W. J. BROWN
PROJECT NO.	STP-564(D-606)
SHEET NO.	68
TOTAL SHEETS	114



43+50
 $G = 26.8 \text{ SF}$
 $P = 0.0 \text{ SF}$

43+00
 $G = 109.9 \text{ SF}$
 $P = 0.0 \text{ SF}$

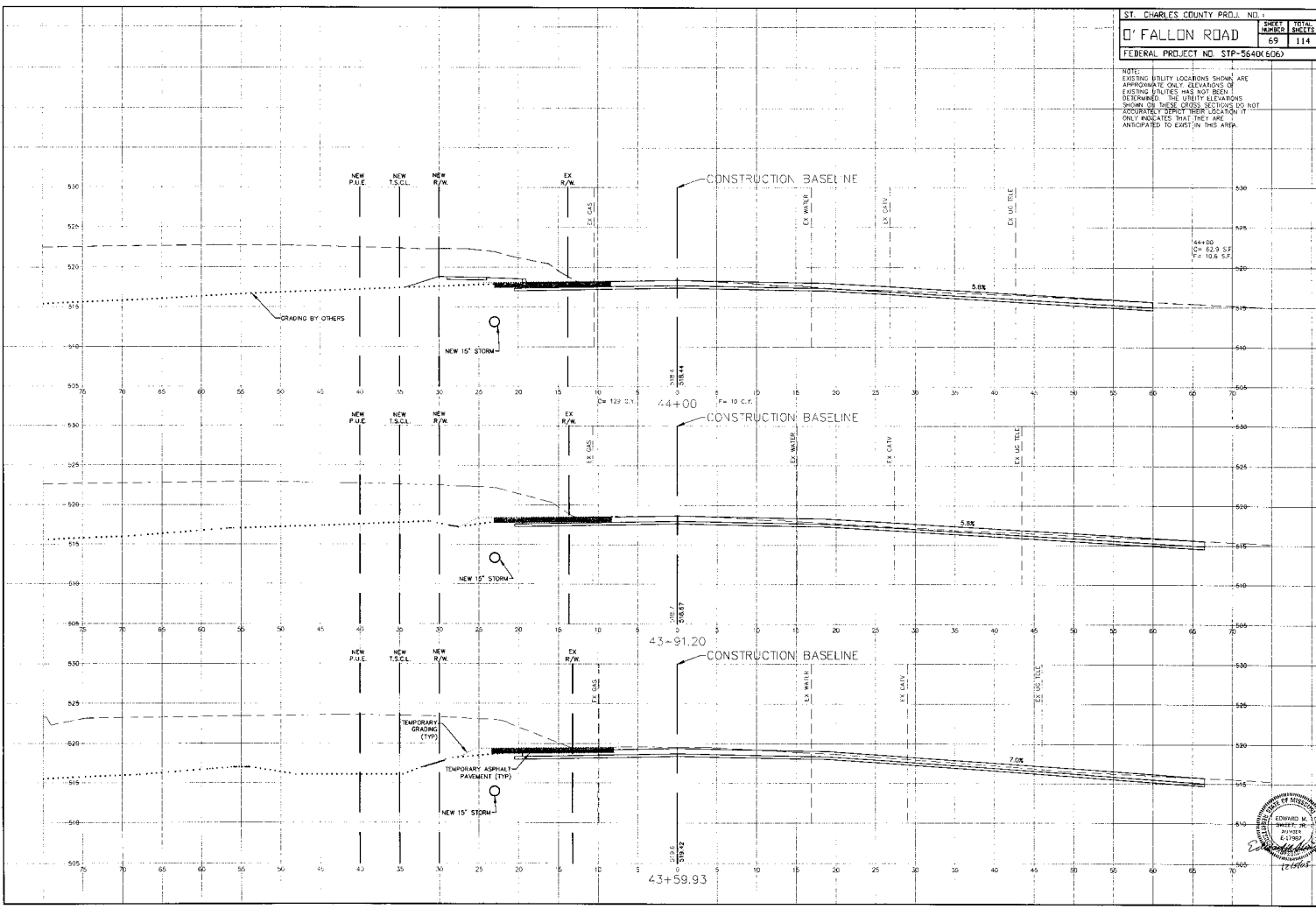


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. CLEARANCES OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY LOCATIONS SHOWN ON THESE CROSS SECTIONS DO NOT NECESSARILY INDICATE THEIR LOCATION IT ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN	DATE
PROJ. NO.	DATE
BY	DATE
CHECKED	DATE
APPROVED	DATE

PROJ. NO.	DATE
BY	DATE
CHECKED	DATE
APPROVED	DATE

PLT. DATE	DATE
BY	DATE
CHECKED	DATE
APPROVED	DATE

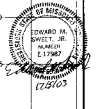
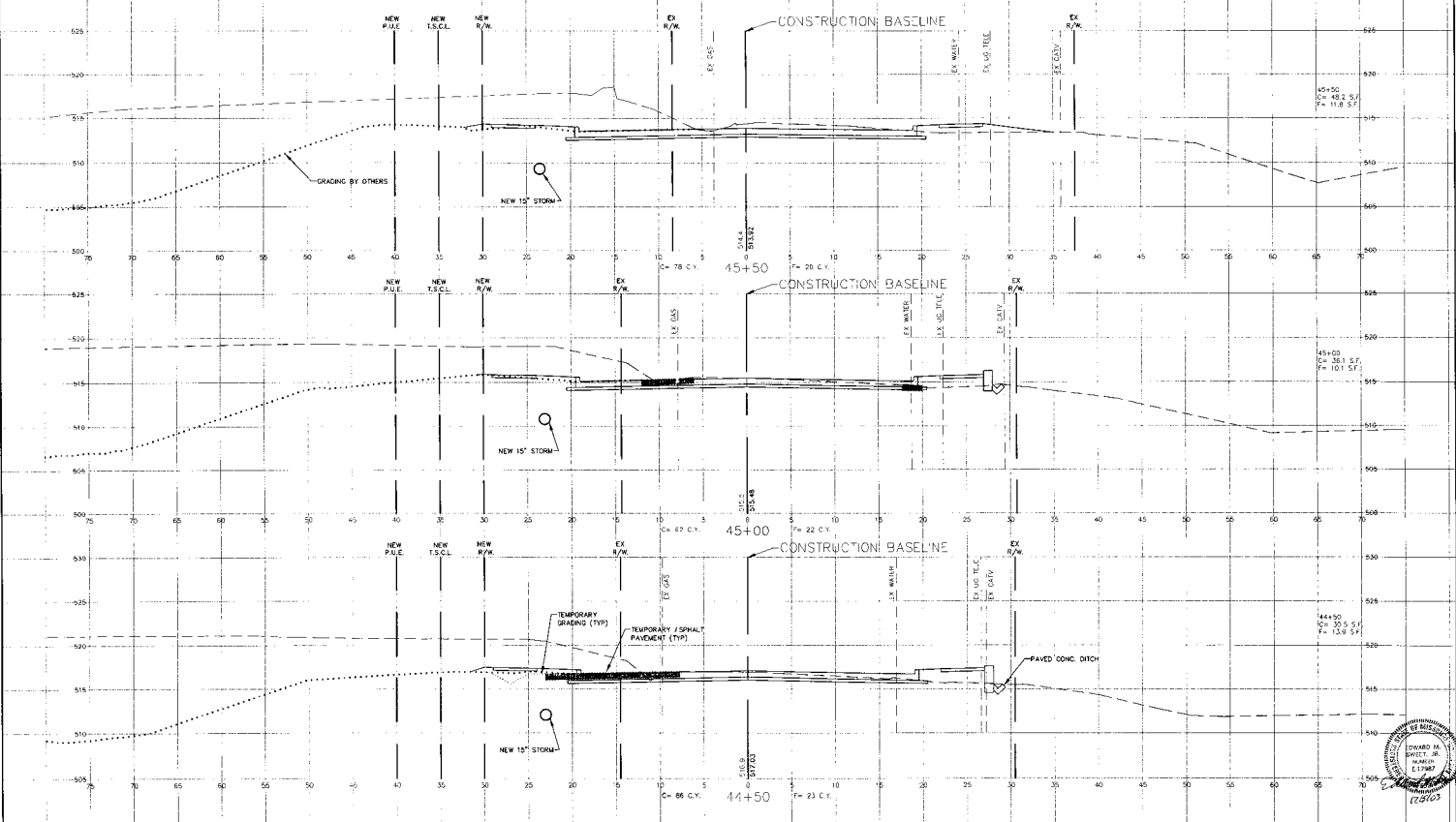


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAVE NOT BEEN DETERMINED. NEW UTILITY ELEVATIONS SHOWN IN THESE SECTIONS ARE NOT ACCURATELY DEPICIT THEIR LOCATION. ONLY UTILITIES SHOWN ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN
 SHEET NO. 70 OF 114 SHEETS
 DATE: 11/15/05
 DRAWN BY: [unintelligible]
 CHECKED BY: [unintelligible]

PROFILE
 SHEET NO. 70 OF 114 SHEETS
 DATE: 11/15/05
 DRAWN BY: [unintelligible]
 CHECKED BY: [unintelligible]

PLAN DATA
 SHEET NO. 70 OF 114 SHEETS
 DATE: 11/15/05
 DRAWN BY: [unintelligible]
 CHECKED BY: [unintelligible]



PLAN SHEETS

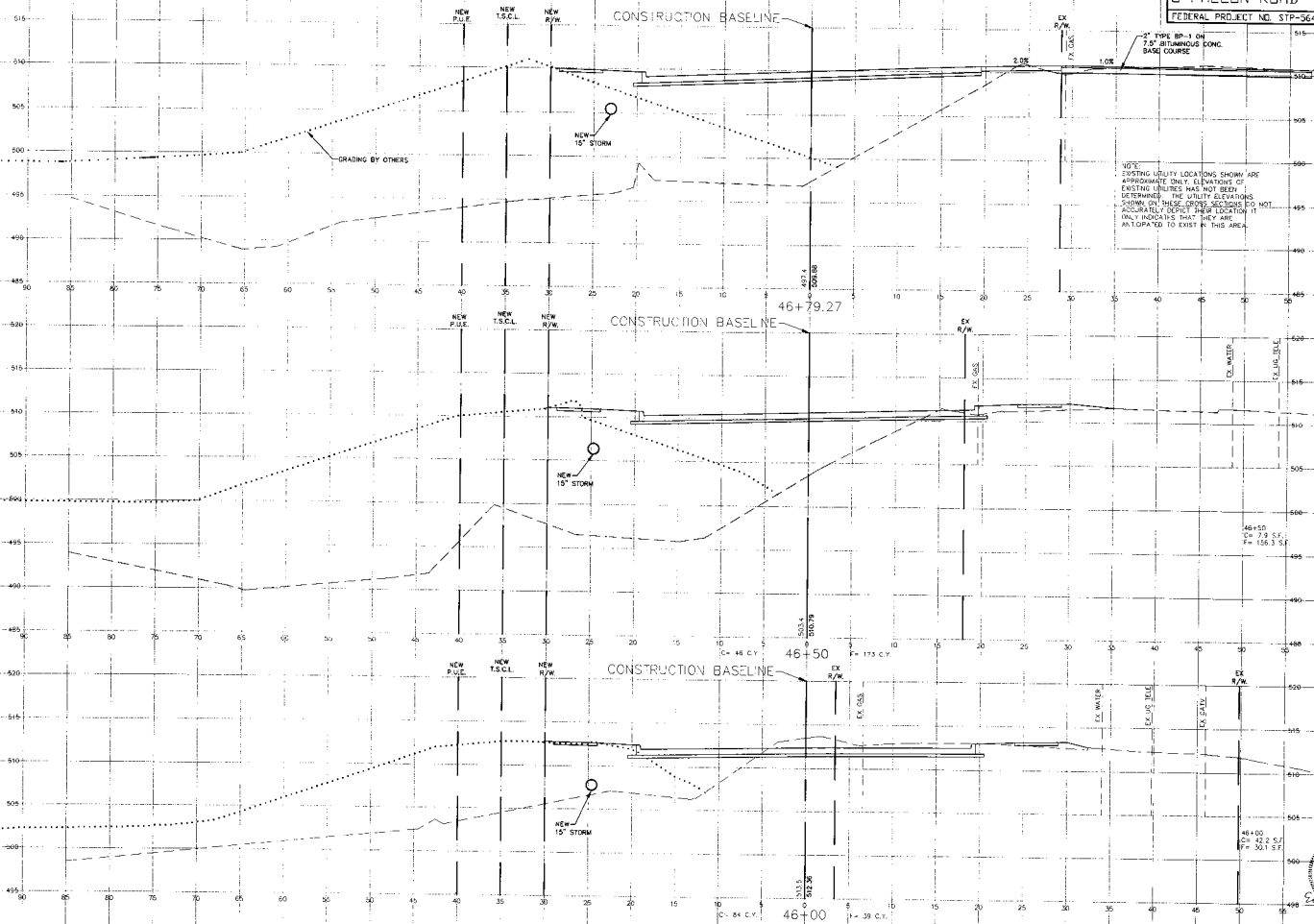
NO.	DATE

PROFILE SHEETS

NO.	DATE

PLAT DATA

DATE	
BY	
CHECKED BY	



NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. LOCATION OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY DEPT'S RECORDS ON THESE UTILITY LOCATIONS DO NOT PROVIDE THE EXACT LOCATION OF THE UTILITIES. THE LOCATION IS ANTICIPATED TO EXIST IN THIS AREA.

46+50
 C = 79 S.F.
 F = 156.3 S.F.

46+50
 C = 48 C.Y.
 F = 17.3 C.Y.

46+00
 C = 24 C.Y.
 F = 39 C.Y.

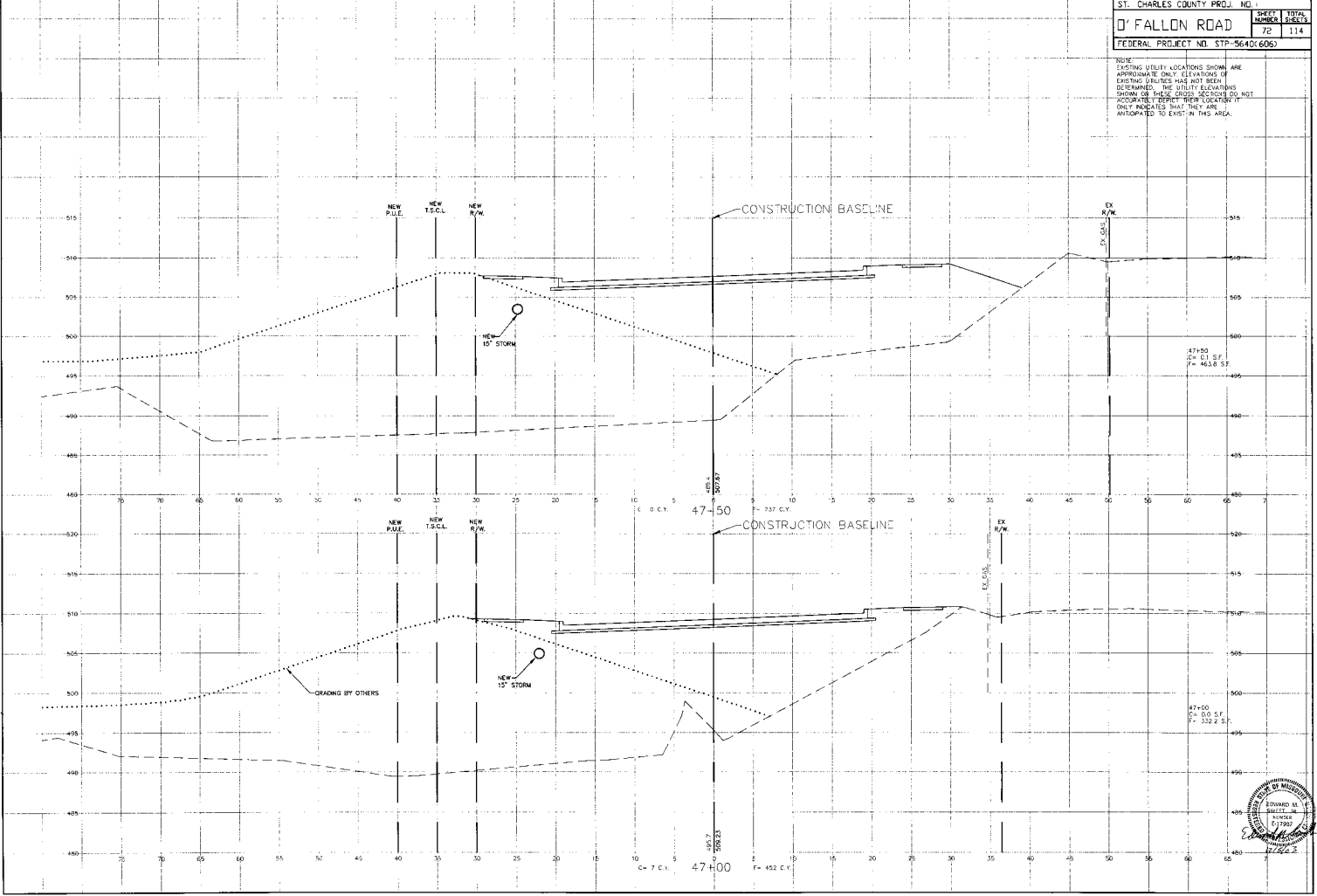


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PLAN	DATE	BY
REVISED		
BY		
DATE		

PROFILE	DATE	BY
REVISED		
BY		
DATE		

P.C.I. DATA	DATE	BY
REVISED		
BY		
DATE		

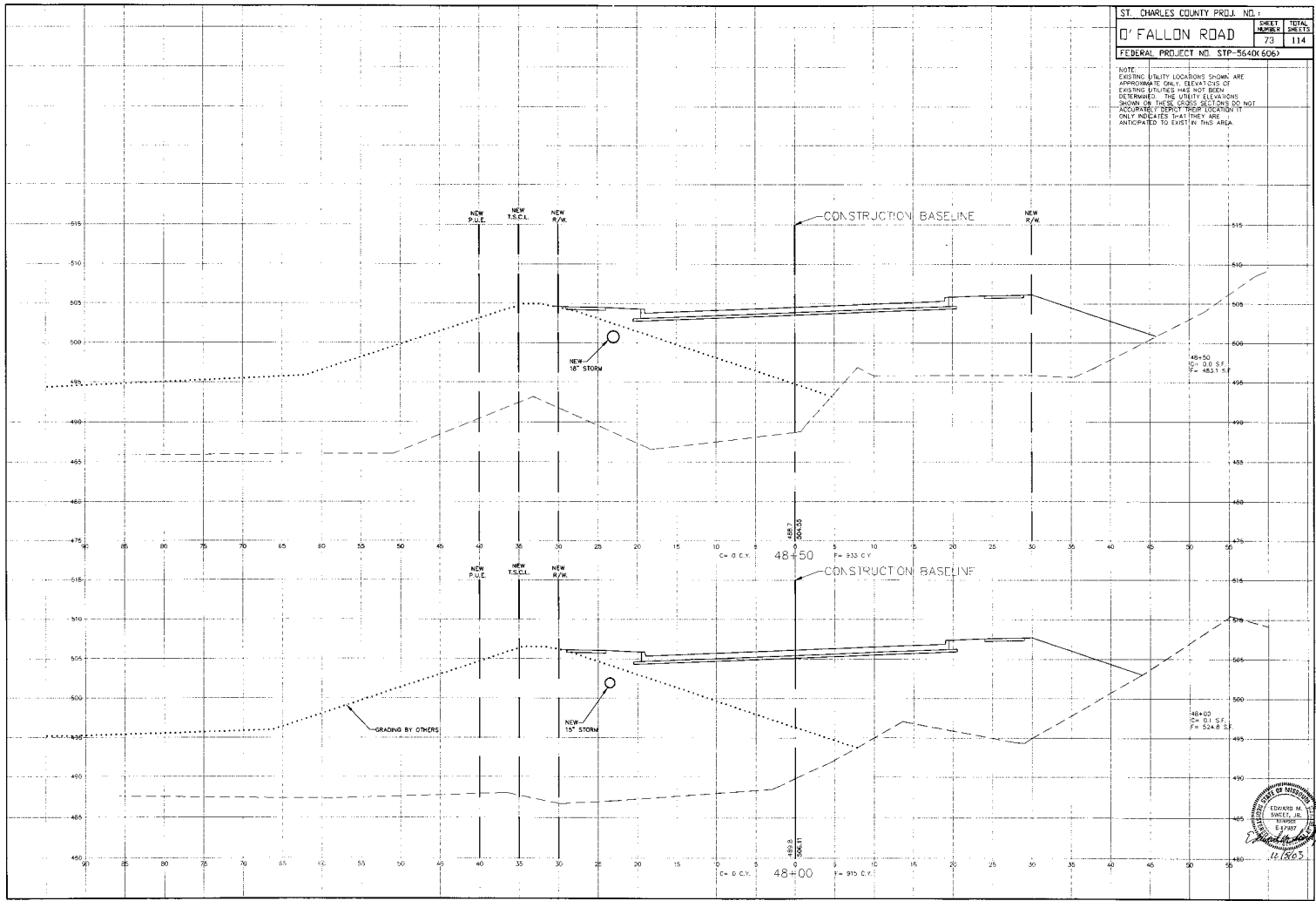


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. DEPTHS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY ELEVATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY SHOW THEIR LOCATIONS. ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

DATE	BY	CHKD.

DATE	BY	CHKD.

DATE	BY	CHKD.

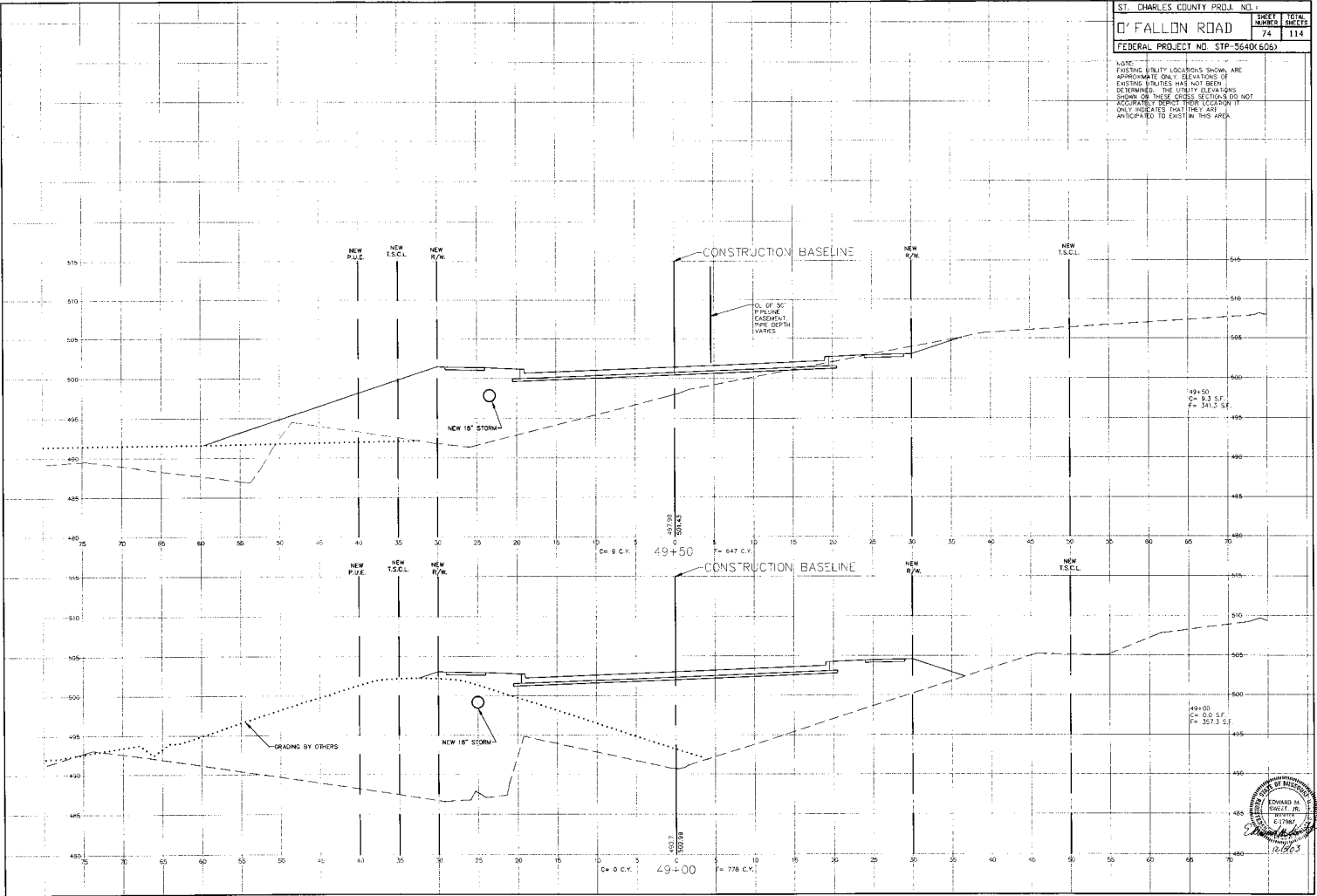


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. DEVIATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY LOCATIONS SHOWN ON THESE SHEETS OF CHANGES DO NOT ACCURATELY REFLECT THE UTILITIES ANTICIPATED TO EXIST IN THIS AREA.

PLAN
 SHEET NO. 74
 OF TOTAL SHEETS 114
 PROJECT NO. STP-5640(60B)
 DATE: 11/15/05

PROF. PLAN
 SHEET NO. 74
 OF TOTAL SHEETS 114
 PROJECT NO. STP-5640(60B)
 DATE: 11/15/05

PLOT DATA
 DATE: 11/15/05
 TIME: 11:00 AM



49+50
 C = 8.3 S.F.
 F = 341.3 S.F.

49+00
 C = 8.0 S.F.
 F = 323.3 S.F.

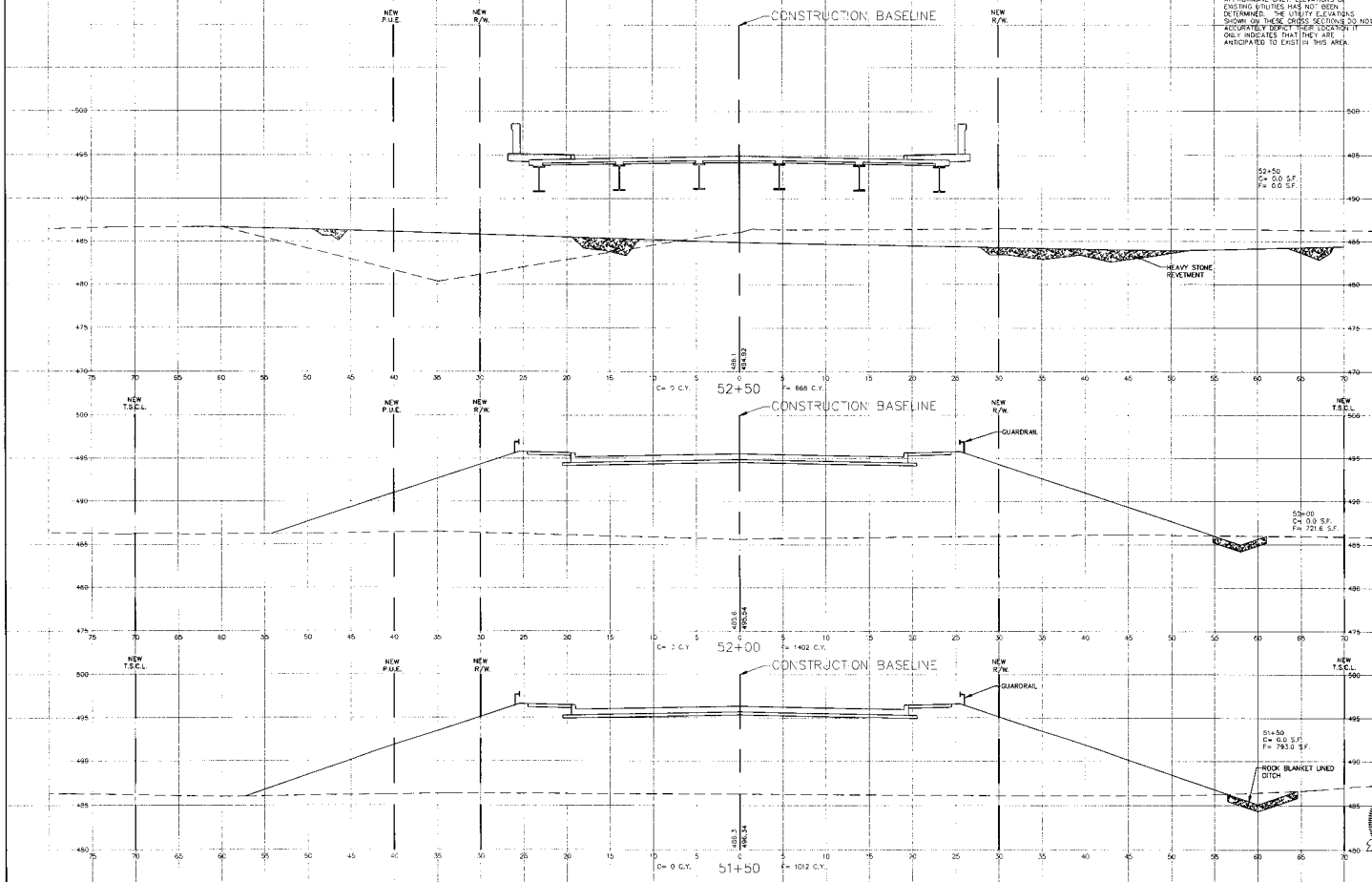


NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. ONLY ELEVATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE GUTTER ELEVATIONS SHOWN ON THESE SHEETS SHOULD BE ACCURATELY CHECKED. THESE TICKS ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN	DATE	BY
REVISION		
NO.	DATE	BY
1		

SECTION	DATE	BY
REVISION		
NO.	DATE	BY
1		

SCALE	DATE	BY
REVISION		
NO.	DATE	BY
1		



NOTE:
 EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. ONLY LOCATIONS OF EXISTING UTILITIES HAS NOT BEEN DETERMINED. THE UTILITY LOCATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY REFLECT THEIR LOCATION. IT ONLY INDICATES THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN

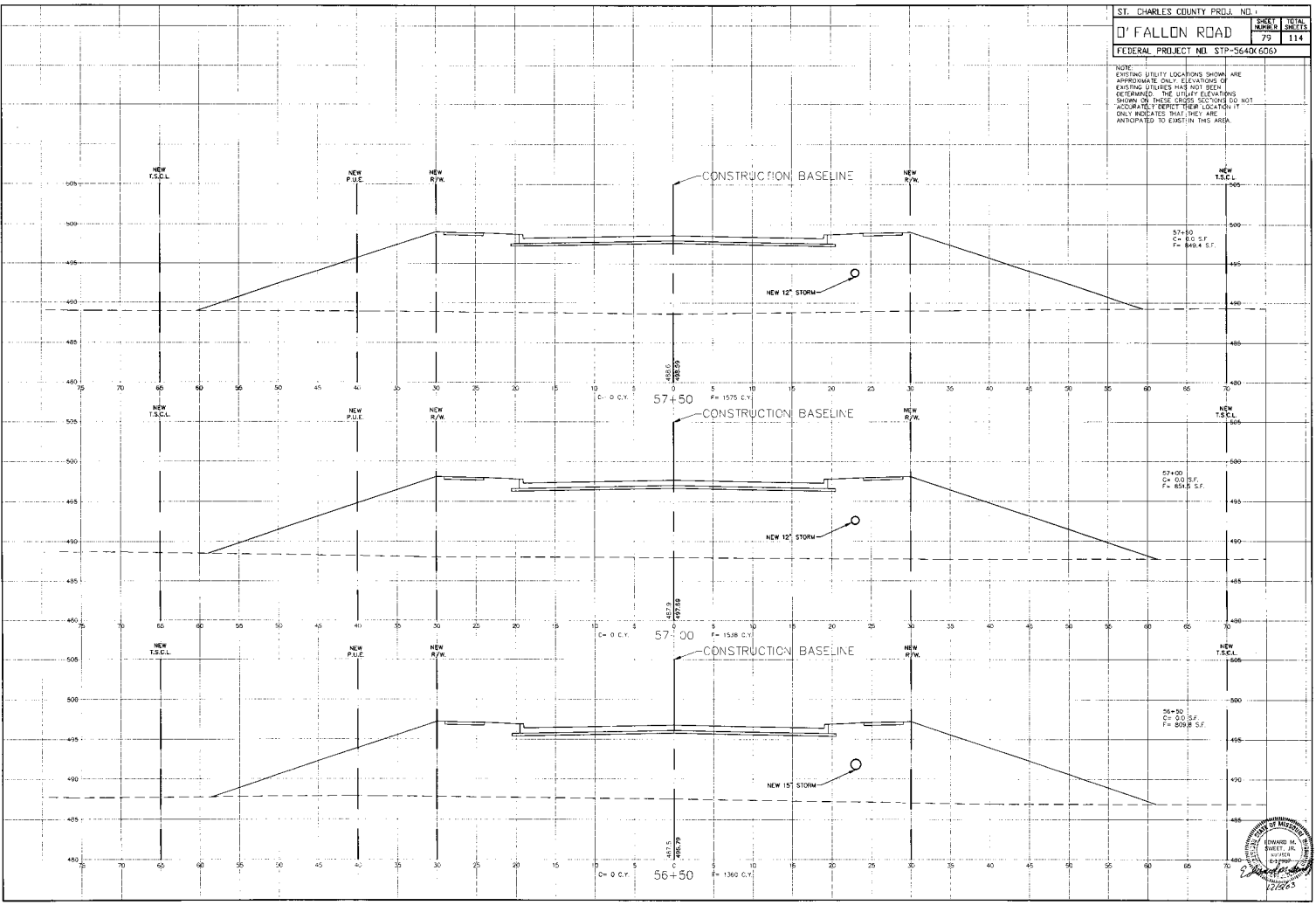
DATE	BY	CHKD.
12/15/09	J.M.	J.M.
PROJECT NO.	DATE	BY
STP-564X(606)	12/15/09	J.M.

PROFILE

DATE	BY	CHKD.
12/15/09	J.M.	J.M.
PROJECT NO.	DATE	BY
STP-564X(606)	12/15/09	J.M.

PLOT DATA

DATE	BY	CHKD.
12/15/09	J.M.	J.M.
PROJECT NO.	DATE	BY
STP-564X(606)	12/15/09	J.M.

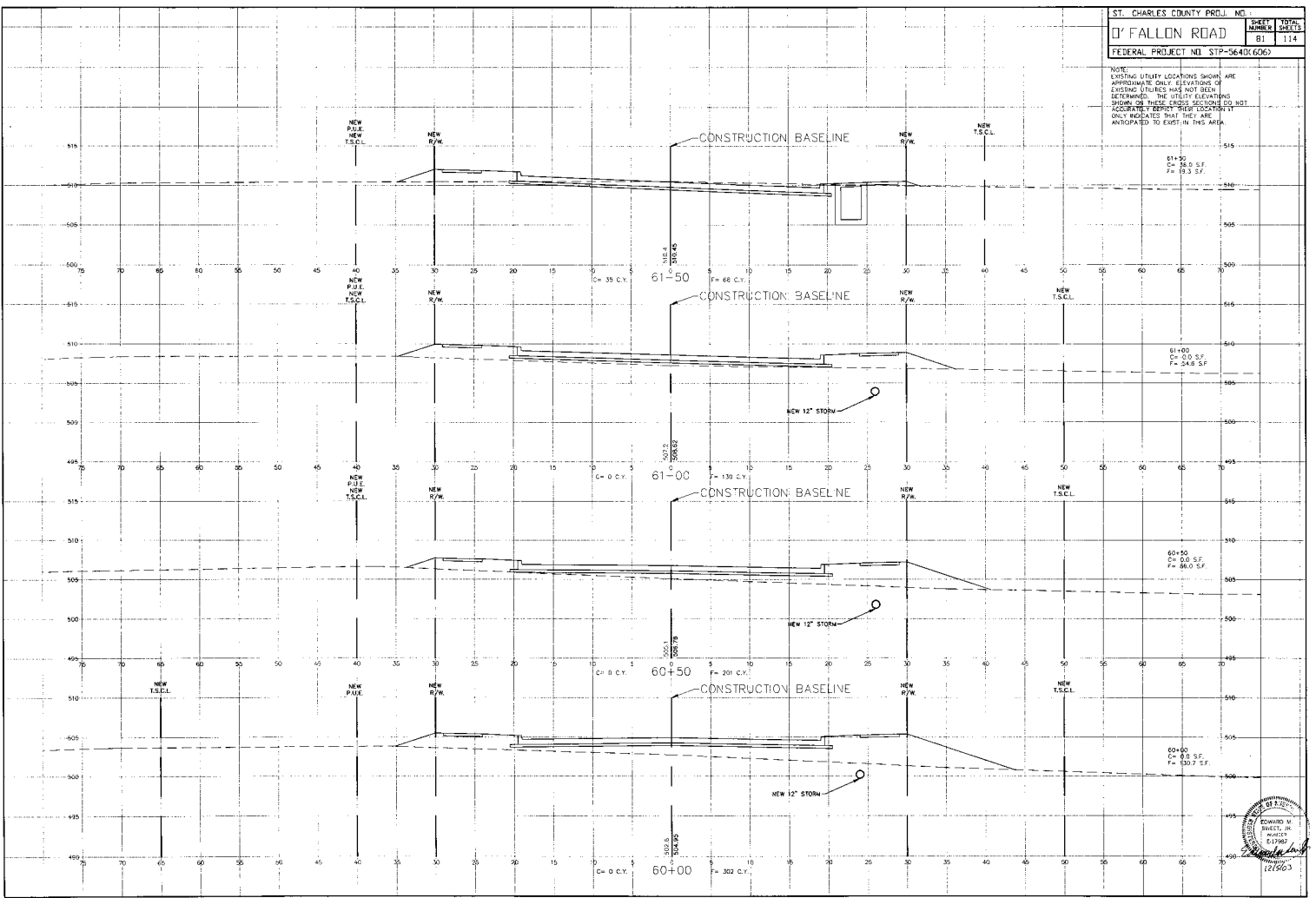


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PLAN
 SHEET NO. _____
 PROJECT NO. _____
 DATE _____

PROFILE
 SHEET NO. _____
 PROJECT NO. _____
 DATE _____

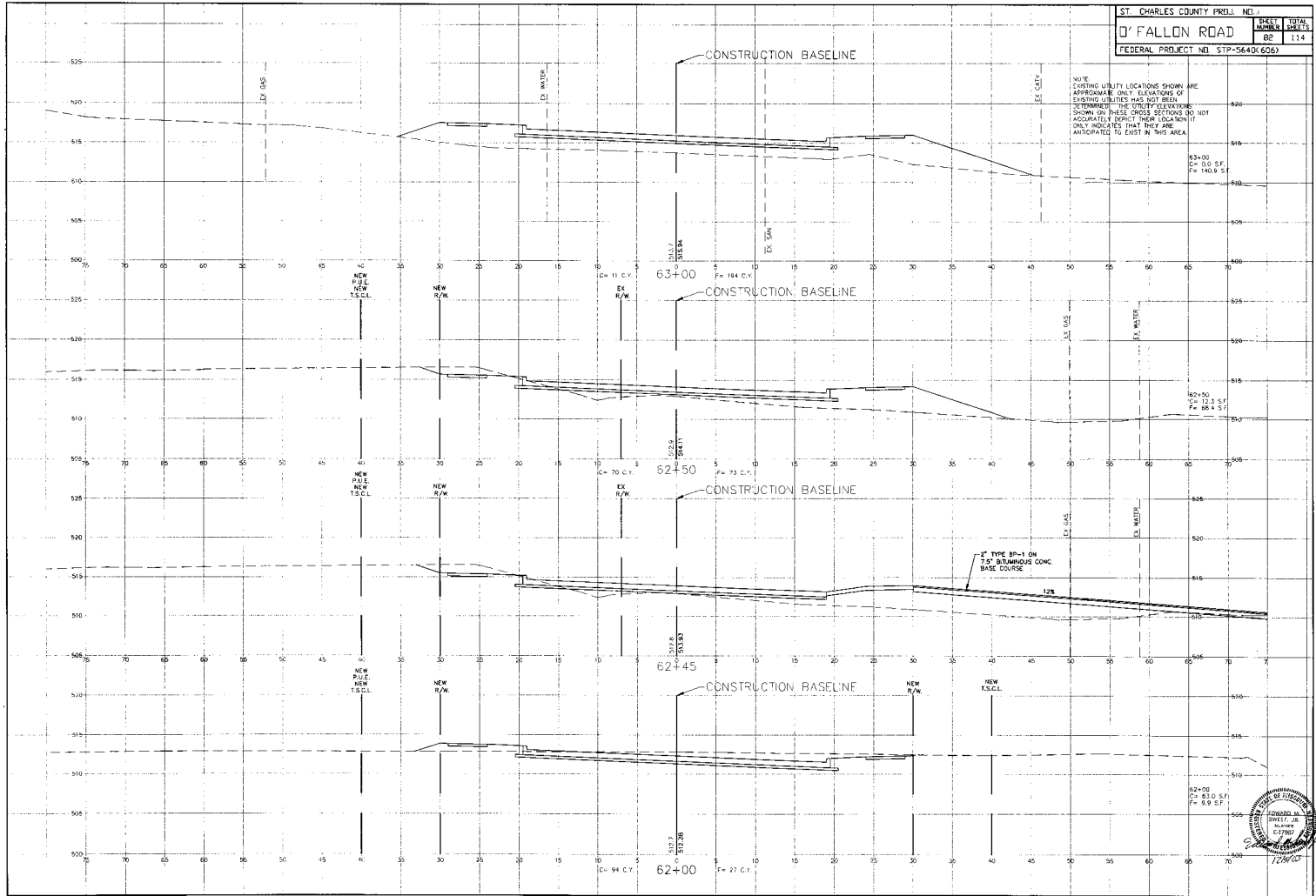
PLOT DATA
 PLOT NO. _____
 DATE _____



PLAN SURVEY:
 DATE: _____
 BY: _____
 CHECKED BY: _____

PROFILE SURVEY:
 DATE: _____
 BY: _____
 CHECKED BY: _____

PLAT DATA:
 DATE: _____
 BY: _____
 CHECKED BY: _____



NOTE:
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63+00
 C= 0.0 SF
 F= 140.0 SF

62+50
 C= 12.3 SF
 F= 88.4 SF

62+00
 C= 83.0 SF
 F= 9.9 SF

IF THE BRK IS ON 7.5' BTUMMING CONC BASE COURSE



NOTE:
 POSTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. ELEVATIONS OF EXISTING UTILITIES HAVE NOT BEEN DETERMINED. THE UTILITY LOCATIONS SHOWN ON THESE CROSS SECTIONS DO NOT ACCURATELY DEPICT THEIR LOCATION. IT IS ONLY ANTICIPATED THAT THEY ARE ANTICIPATED TO EXIST IN THIS AREA.

PLAN

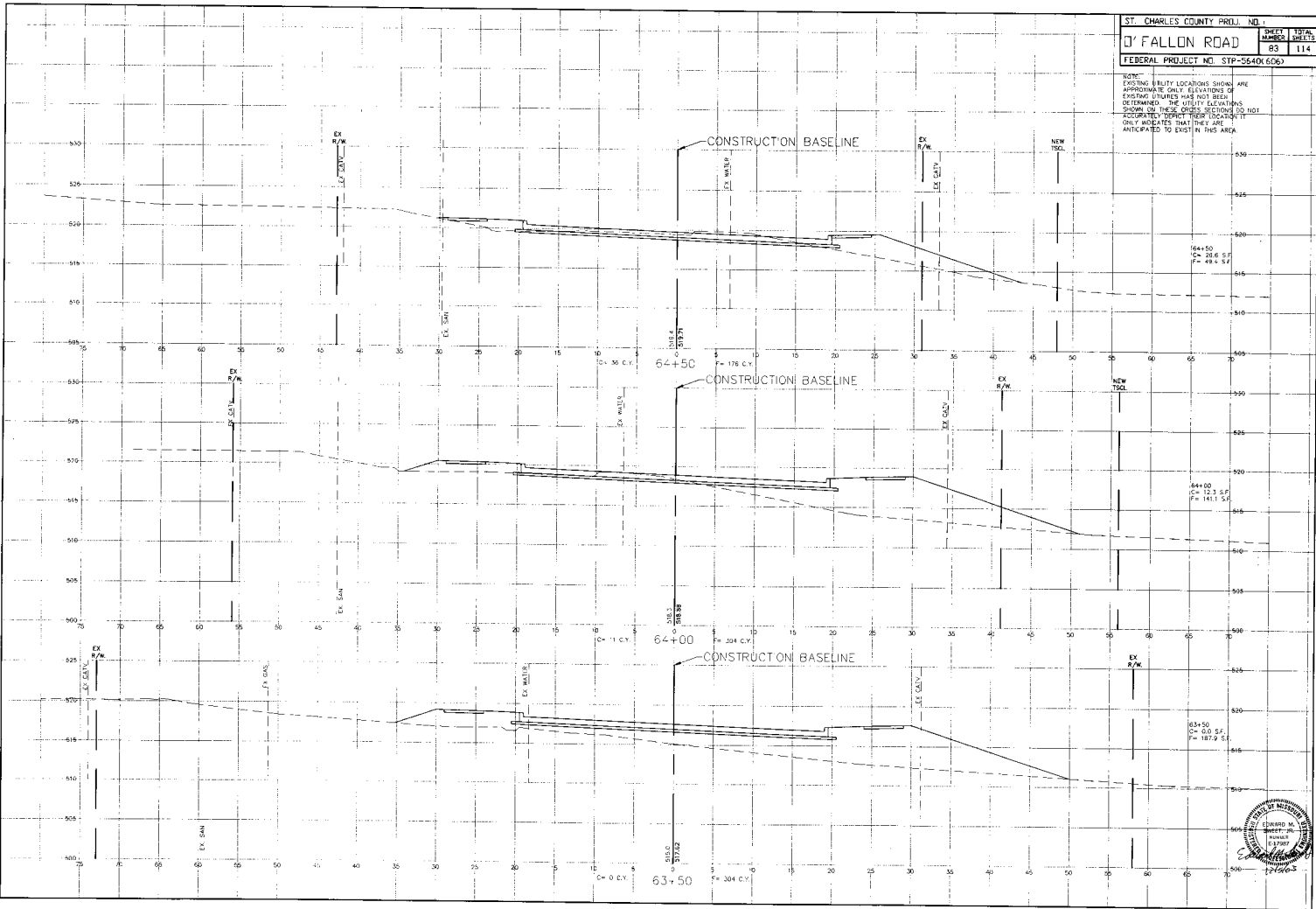
DATE	BY

PROFILE

DATE	BY

PLS DATA

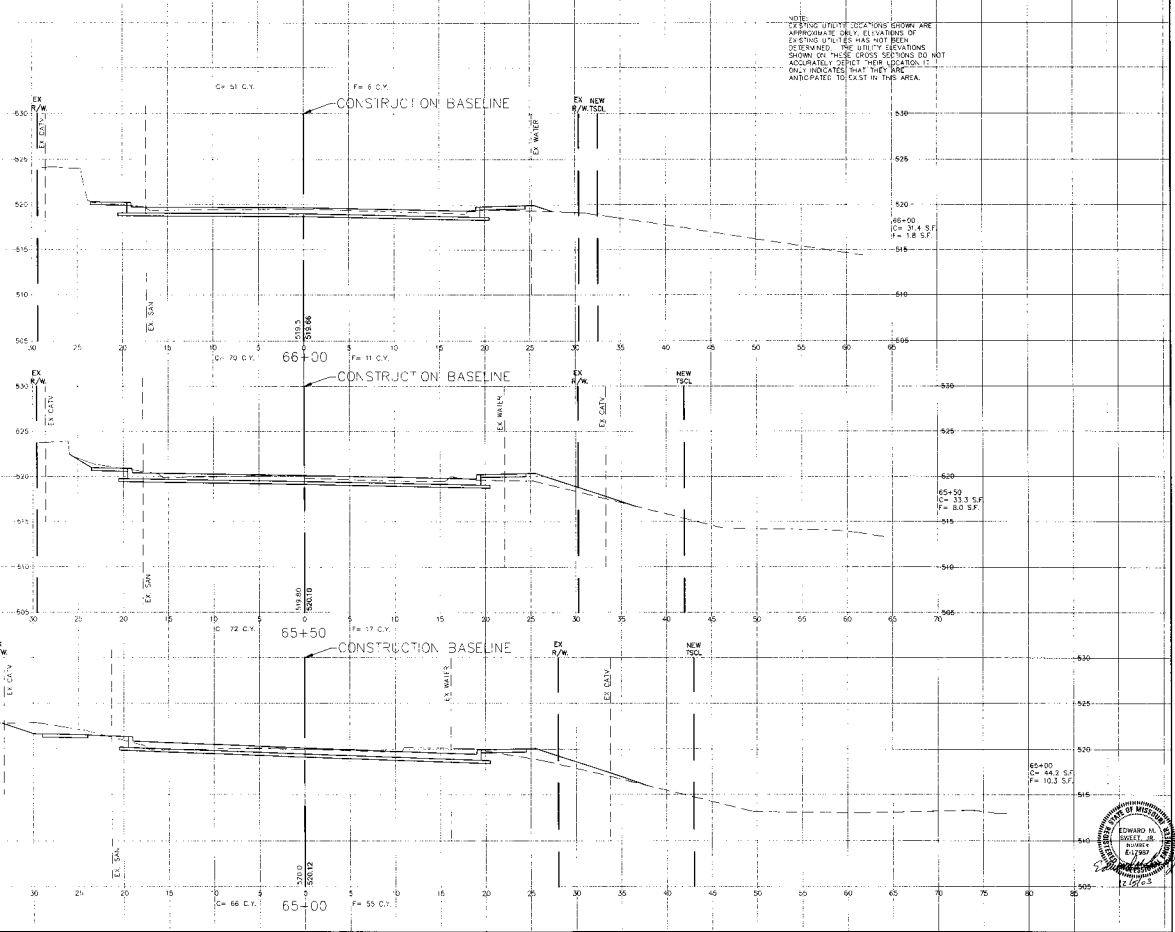
DATE	BY



PLAN	NO.	DATE
NO.	NO.	NO.
NO.	NO.	NO.
NO.	NO.	NO.
NO.	NO.	NO.

PROFIT	NO.	DATE
NO.	NO.	NO.
NO.	NO.	NO.
NO.	NO.	NO.
NO.	NO.	NO.

PILOT DATA	NO.	DATE
NO.	NO.	NO.
NO.	NO.	NO.
NO.	NO.	NO.
NO.	NO.	NO.



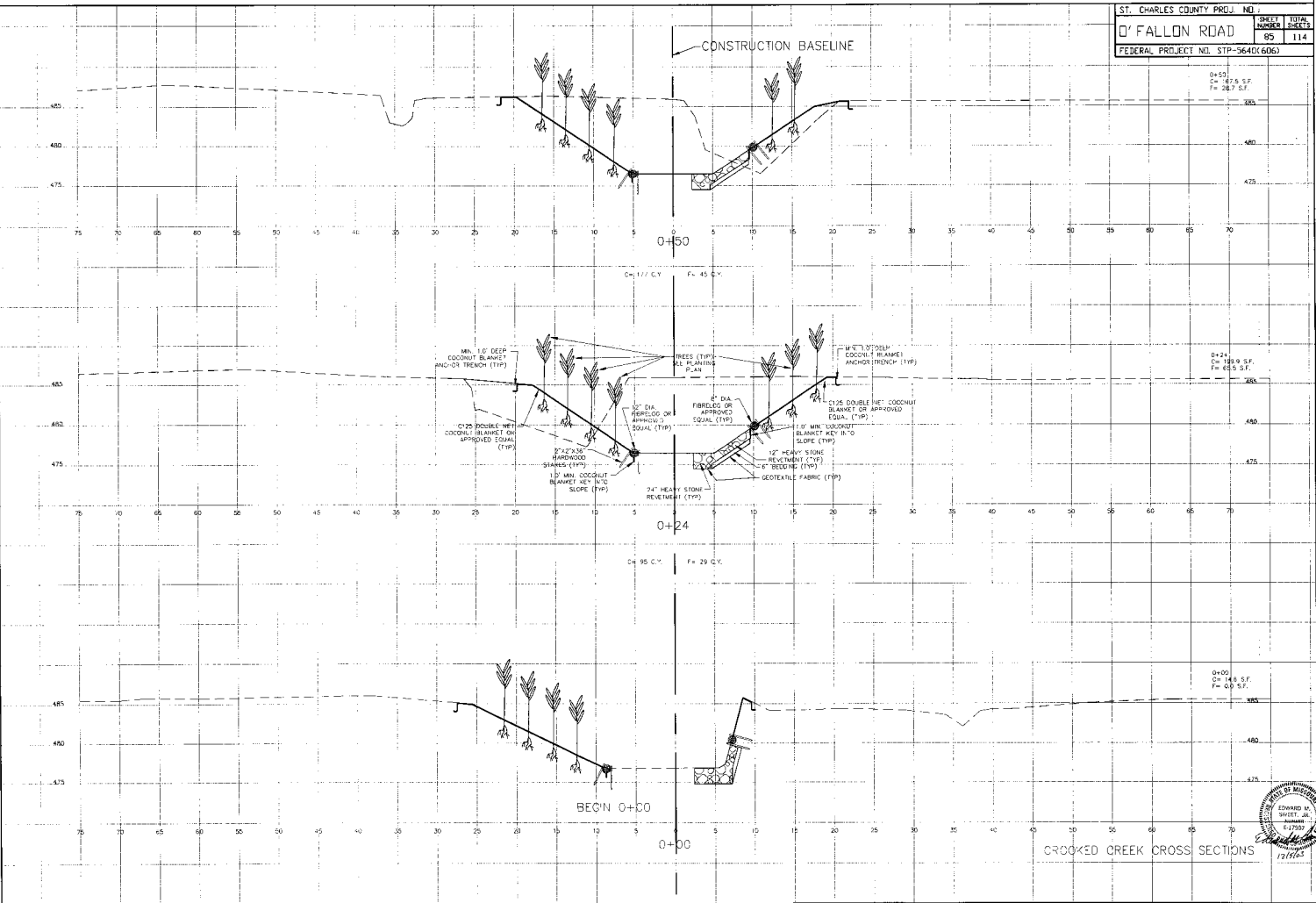
NOTE:
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PLAN
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 IN CHARGE: _____

SECTION
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 IN CHARGE: _____

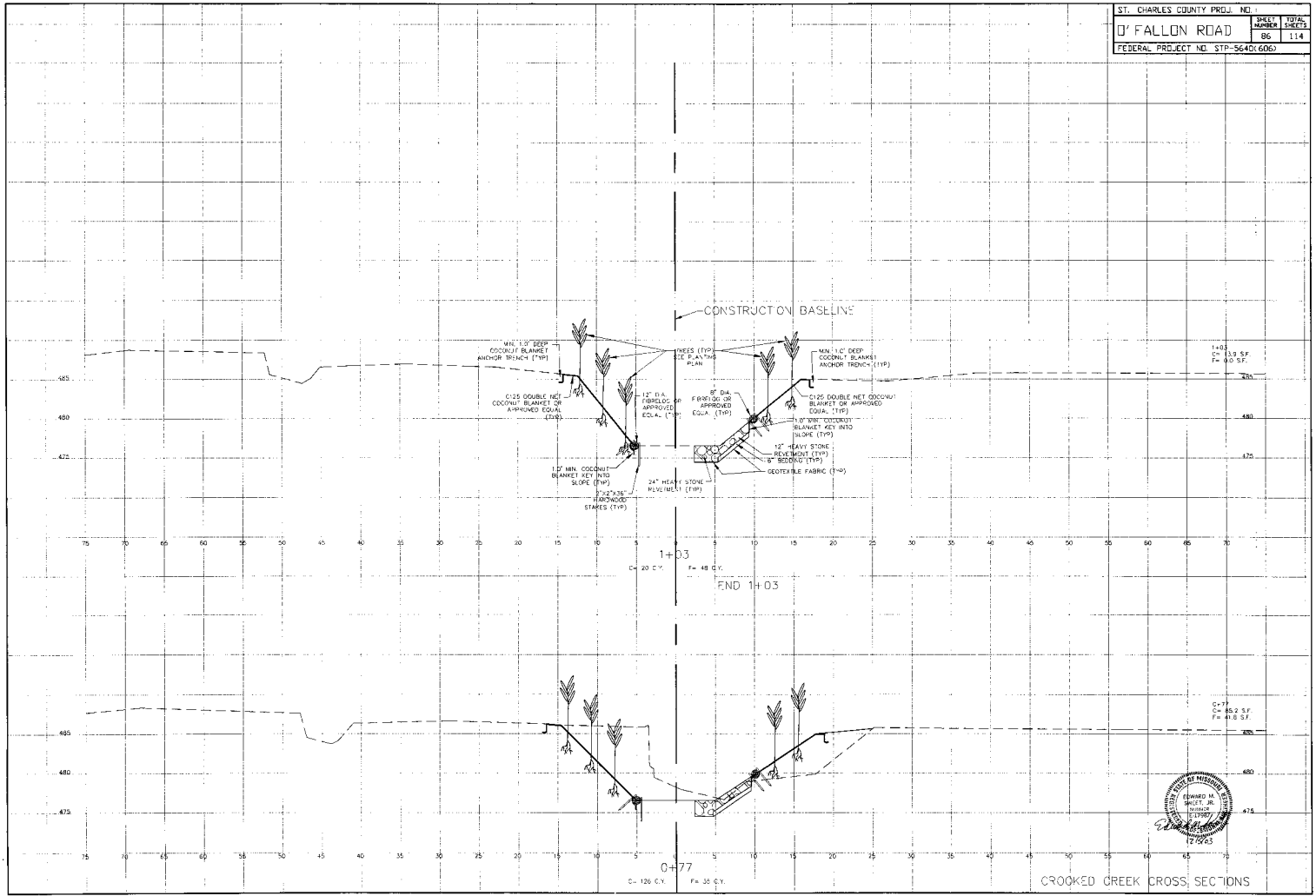
SECTION
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 IN CHARGE: _____



PLAN	DATE
REVISION	
BY	
CHECKED	
DATE	

PROFILE	DATE
REVISION	
BY	
CHECKED	
DATE	

FIELD DATA	DATE
REVISION	
BY	
CHECKED	
DATE	

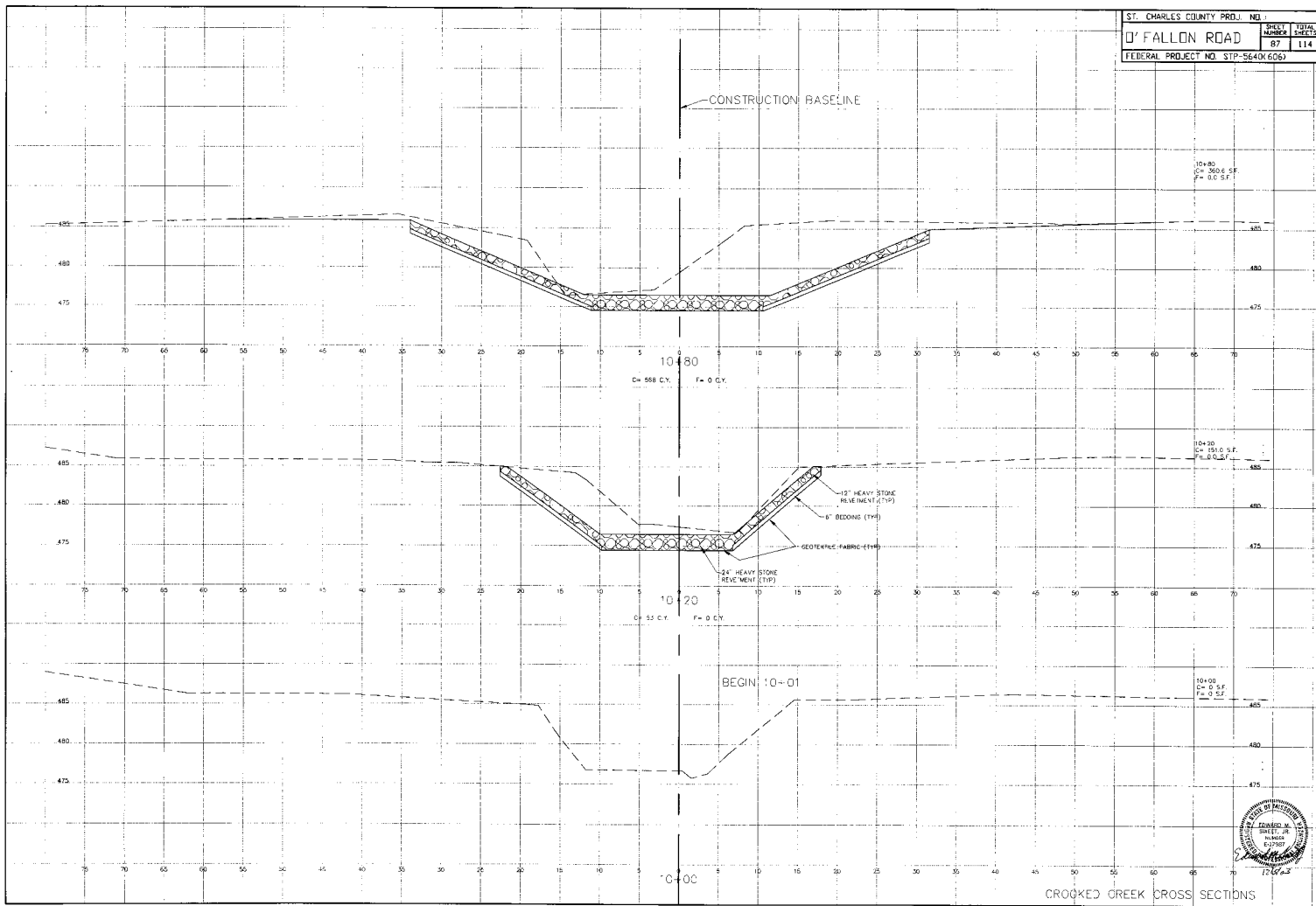


CROOKED GREEK CROSS SECTIONS

PLAN
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 APPROVED BY: _____

PROFILE
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 APPROVED BY: _____

PLANT DATA
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 APPROVED BY: _____

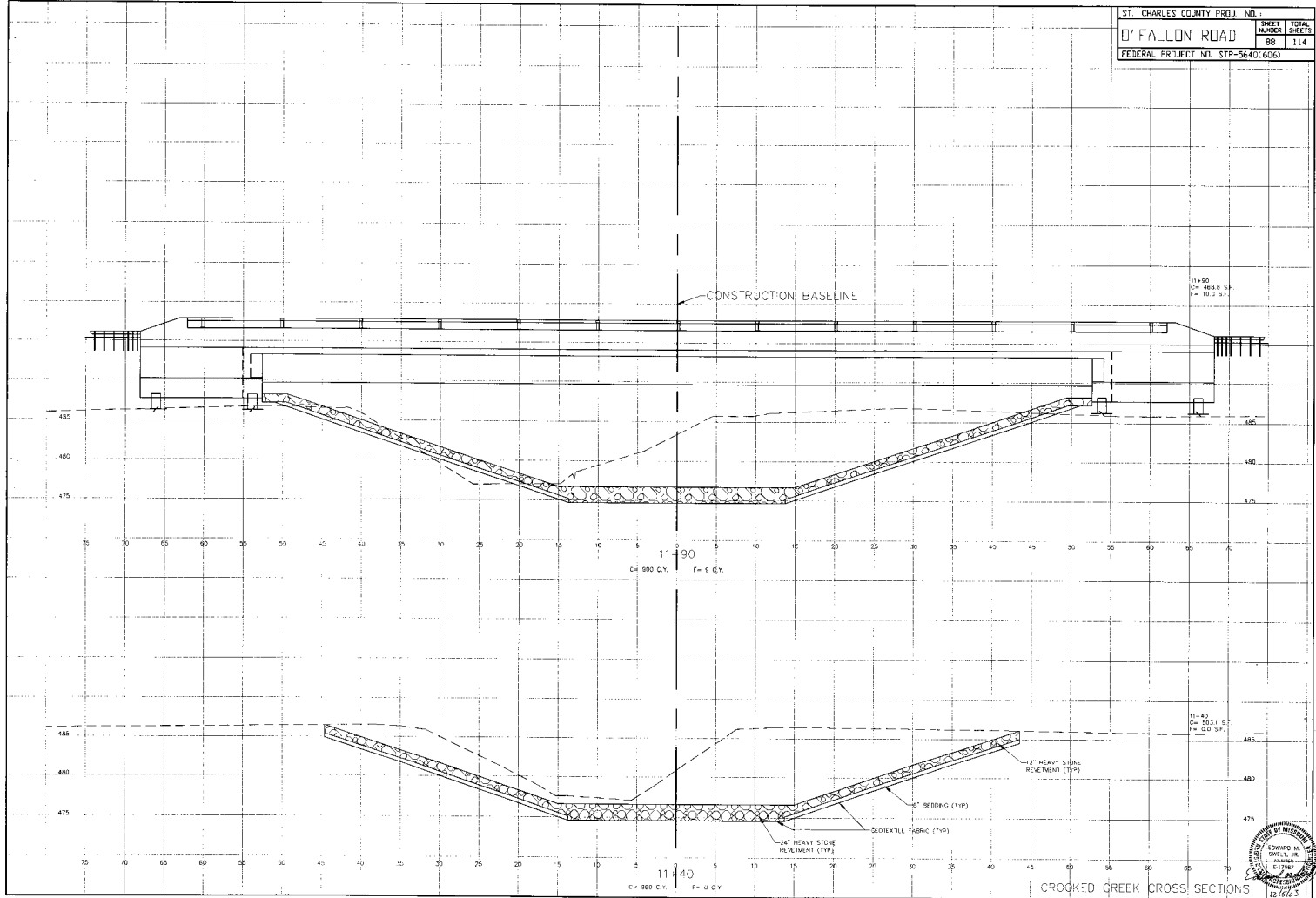


CROOKED CREEK CROSS SECTIONS

PLAN
 DRAWN BY: _____
 CHECKED BY: _____
 DATE: _____

CROSS SECTION
 DRAWN BY: _____
 CHECKED BY: _____
 DATE: _____

CROSS SECTION
 DRAWN BY: _____
 CHECKED BY: _____
 DATE: _____



11+90
 C= 888.5 F
 F= 18.0 SF

11+90
 C= 900 C.Y. F= 9 C.Y.

11+40
 C= 283.5 F
 F= 50 SF

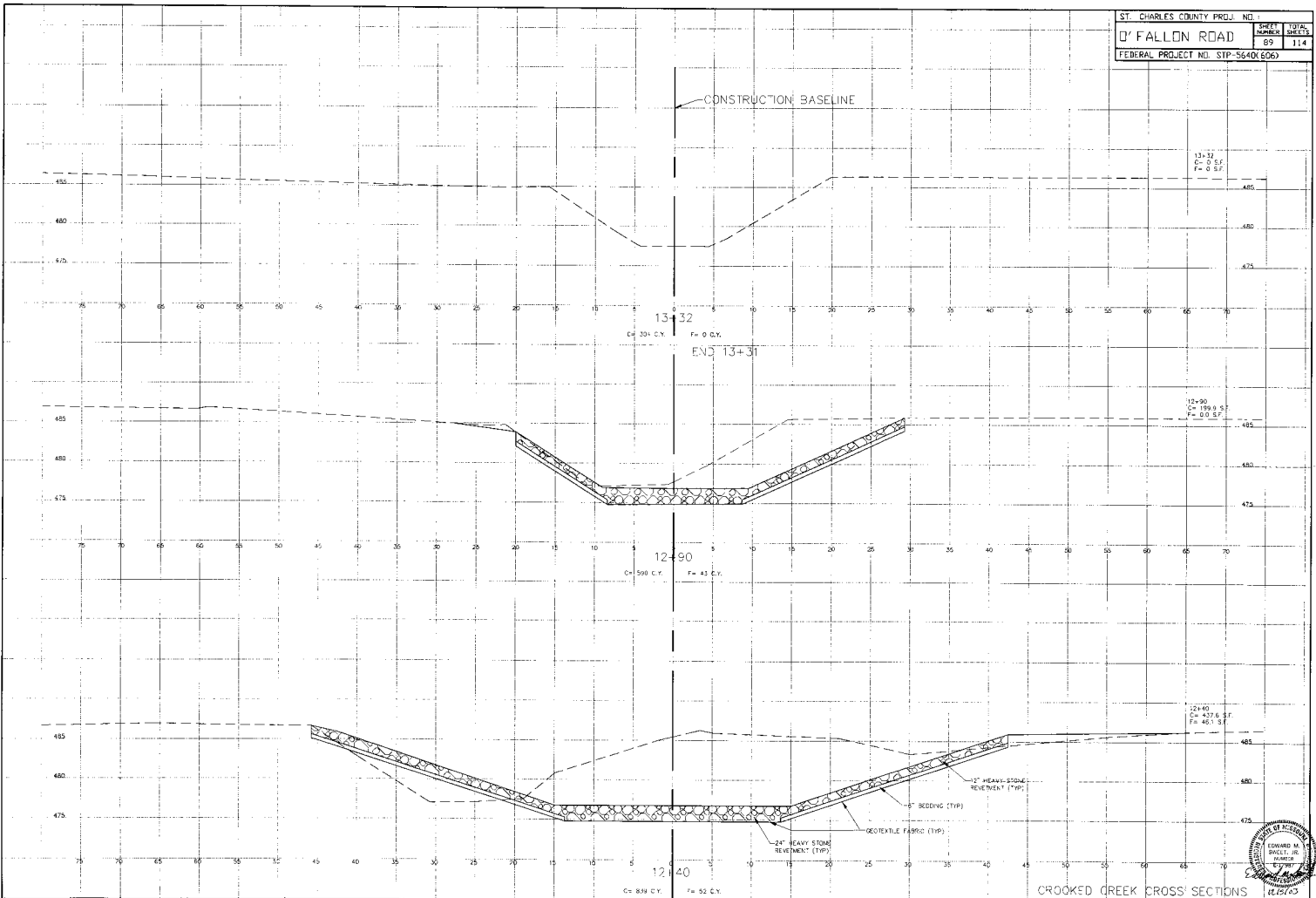
11+40
 C= 380 C.Y. F= 4 C.Y.



PLAN	DATE
NO. 1	11/11/09
BY: [Signature]	CHECKED: [Signature]
SCALE: AS SHOWN	PROJECT: ST. CHARLES COUNTY

PROFIT	DATE
NO. 1	11/11/09
BY: [Signature]	CHECKED: [Signature]
SCALE: AS SHOWN	PROJECT: ST. CHARLES COUNTY

DATA	DATE
NO. 1	11/11/09
BY: [Signature]	CHECKED: [Signature]
SCALE: AS SHOWN	PROJECT: ST. CHARLES COUNTY



13+32
 C= 0 S.F.
 F= 0 S.F.

13+32
 C= 331 C.Y.
 F= 0 C.Y.
 END 13+31

12+90
 C= 599.9 S.F.
 F= 0.0 S.F.

12+90
 C= 599 C.Y.
 F= 43 C.Y.

12+40
 C= 476.6 S.F.
 F= 46.3 S.F.

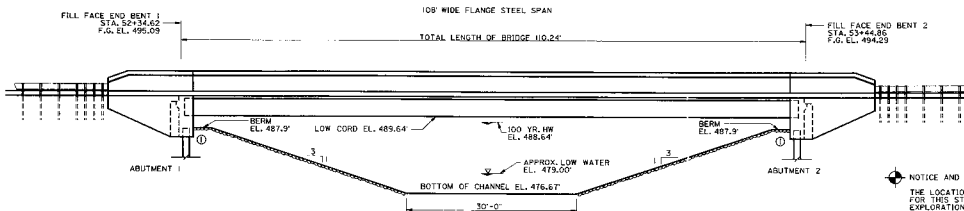
12+40
 C= 888 C.Y.
 F= 52 C.Y.



CROOKED CREEK CROSS SECTIONS

LEGEND:

- ① INTEGRAL BEARING (PROPOSED CONDITION)
- ◇ DENOTES PROPOSED
- ◇ PROPOSED GUARDRAIL CONNECTION
- PROPOSED DECK DRAIN LOCATION



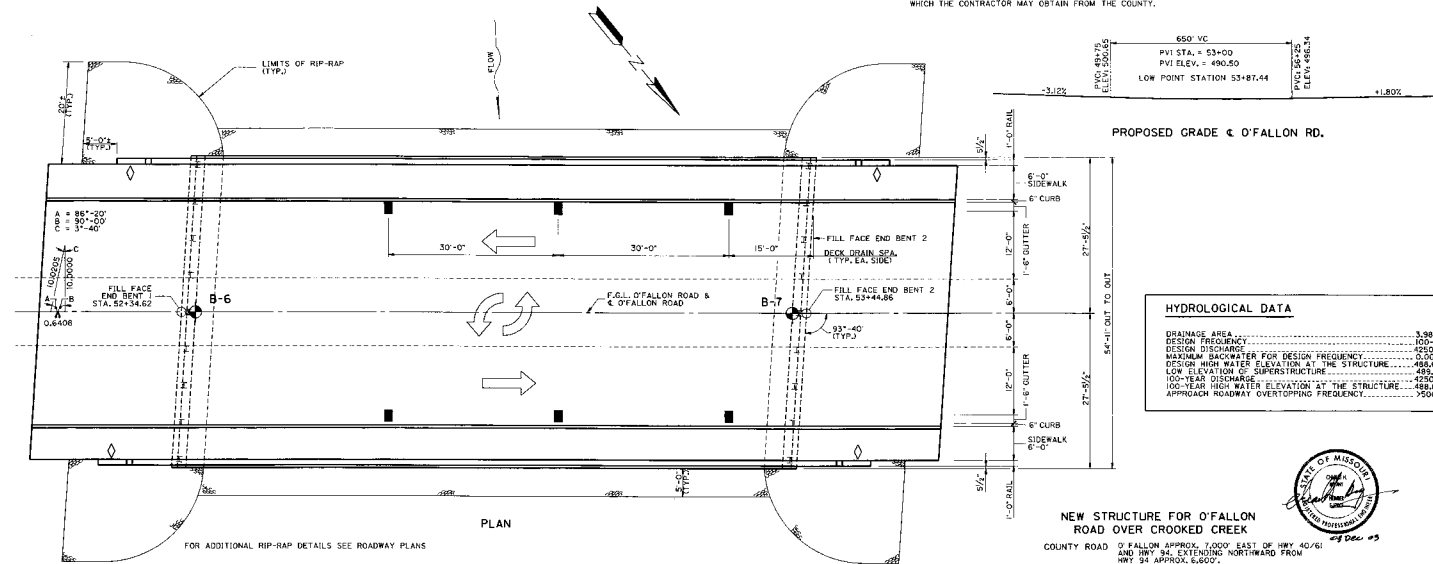
ROADWAY FILL SHALL BE COMPLETED TO THE FINAL ROADWAY SECTION AND UP TO THE ELEVATION OF THE BOTTOM OF THE CONCRETE BEAM WITHIN THE LIMITS OF THE STRUCTURE AND FOR NOT LESS THAN 20' IN BACK OF THE FILL FACE OF THE END BENTS BEFORE FILES ARE DRIVEN FOR ANY BENTS FALLING WITHIN THE EMBANKMENT SECTION.

GENERAL ELEVATION

NOTICE AND DISCLAIMER REGARDING BORING LOG DATA:

THE LOCATIONS OF ALL SUBSURFACE BORINGS FOR THIS STRUCTURE ARE SHOWN ON THE BRIDGE PLAN SHEET FOR THIS STRUCTURE. BORING DATA FOR THE NUMBERED LOCATIONS IS SHOWN IN SOIL REPORT "SUBSURFACE EXPLORATION, O'FALLON ROAD IMPROVEMENTS, ST. CHARLES COUNTY, MISSOURI, PREPARED BY GEOTECHNOLOGY, INC. REPORT NO. GSS030(01), MAY 11, 2003. THE BORING DATA FOR ALL LOCATIONS INDICATED, AS WELL AS ANY OTHER BORING LOGS OR OTHER FACILITY RECORDS OF SUBSURFACE DATA AND INVESTIGATIONS PERFORMED BY THE DEPARTMENT FOR THE DESIGN OF THIS PROJECT IS AVAILABLE FROM THE PROJECT CONTACT PERSON WRITTEN REQUEST AS OUTLINED IN THE PROJECT SPECIAL PROVISIONS. NO GREATER SIGNIFICANCE OR WEIGHT SHOULD BE GIVEN TO THE BORING DATA DEPICTED ON THE PLAN SHEETS THAN IS SUBSURFACE DATA AVAILABLE FROM THE COUNTY OR ELSEWHERE.

THE COUNTY DOES NOT REPRESENT OR WARRANT THAT ANY SUCH BORING DATA ACCURATELY DEPICTS THE CONDITIONS TO BE ENCOUNTERED IN CONSTRUCTING THIS PROJECT. A CONTRACTOR ASSUMES ALL RISKS IT MAY ENCOUNTER IN BASING ITS BID PRICES, TIME OR SCHEDULE OF PERFORMANCE ON THE BORING DATA DEPICTED HERE OR THOSE AVAILABLE FROM THE COUNTY OR ON ANY OTHER DOCUMENTATION NOT EXPRESSLY WARRANTED, WHICH THE CONTRACTOR MAY OBTAIN FROM THE COUNTY.



PROPOSED GRADE @ O'FALLON RD.

HYDROLOGICAL DATA

DRAINAGE AREA	3.98 SQ. MI.
DESIGN FREQUENCY	100-YEAR
DESIGN DISCHARGE	4950 CFS
MAXIMUM BACKWATER FOR DESIGN FREQUENCY	0.00'
DESIGN HIGH WATER ELEVATION AT THE STRUCTURE	488.64'
LOW ELEVATION OF SUPERSTRUCTURE	488.64'
100-YEAR HIGH WATER ELEVATION AT THE STRUCTURE	488.64'
APPROACH ROADWAY OVERTOPPING FREQUENCY	7500-YEAR



FED. PROJECT NO. STP-5640(606) STA. 52+34.62 **PLAN AND ELEVATION**
 JOB NO. RTE.
 ST. CHARLES COUNTY

DATE: NOVEMBER 2003

PLAN

DESIGNED BY	DATE
CHECKED BY	
APPROVED BY	
DATE	

PROFILE

DESIGNED BY	DATE
CHECKED BY	
APPROVED BY	
DATE	

PLOT DATA

DATE	SCALE

PARSONS
 400 WOODS MILL ROAD
 SOUTH SUITE #330
 CHESTERFIELD, MO 63017

BM 800 NAIL STA. 40+95.95
 46.24' HI. ELEV. 582.24
 ADT YEAR 2000 = 8640
 ADT YEAR 2020 = 11860
 SPEED LIMIT = 40 MPH
 DIRECTIONAL DISTRIBUTION = 70%
 PERCENTAGE OF TRUCK TRAFFIC = 2% (YEAR 2000)

FOR GENERAL NOTES, ESTIMATED QUANTITIES,
 ESTIMATED QUANTITIES FOR SLAB ON STEEL,
 PILE AND FOOTING DATA, AND LOCATION SKETCH,
 SEE SHEET NO. 91.

GENERAL NOTES:

DESIGN SPECIFICATIONS
 2002 - ASHTO 17TH EDITION
 LOAD FACTOR DESIGN
 SEISMIC PERFORMANCE CATEGORY A
 ACCELERATION COEFFICIENT = 0.096

DESIGN LOADING:
 HS20-44
 35K/250 FT. FUTURE WEARING SURFACE
 EARTH 20M/CU FT. EQUIVALENT FLUID PRESSURE 45W/CUFT.
 SUPERSTRUCTURE SIMPLY SUPPORTED.

DESIGN UNIT STRESSES:
 CLASS 1 CONCRETE (SUBSTRUCTURES) $f_c = 3,000$ psi
 CLASS B-2 CONCRETE (SUPERSTRUCTURE) $f_c = 4,000$ psi
 CLASS B-2 CONCRETE (COMPRESSION) $f_c = 4,000$ psi
 REINFORCING STEEL (GRADE 60) $f_y = 60,000$ psi
 STRUCTURAL STEEL (ASTM A572 GRADE 50) $f_y = 50,000$ psi
 FOR PRECAST, CONNECTIONS SEE THE SPECIFICATIONS.
 STEEL PILE (ASTM A572 GRADE 50) $f_y = 50,000$ psi

FABRICATED STEEL CONNECTIONS:
 FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER HIGH STRENGTH BOLTS AND 3/4" DIAMETER HOLES, EXCEPT AS NOTED.

JOINT FILLER:
 ALL JOINT FILLER SHALL MEET THE REQUIREMENTS OF SECTION 1002.2.4 OF THE MISSOURI STANDARD SPECIFICATIONS, EXCEPT AS NOTED.

REINFORCING STEEL:
 MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1/2", UNLESS OTHERWISE SHOWN.

NEW STEEL STRUCTURES - WEATHERING STEEL:
 PROTECTIVE COATING SYSTEM H BY THE CONTRACTOR (SEE SPECIAL PROVISIONS).
 PORTIONS OF THE STRUCTURAL STEEL EMBEDDED IN OR IN CONTACT WITH CONCRETE, INCLUDING BUT NOT LIMITED TO THE TOP FLANGE OF CHANNELS, SHALL BE COATED WITH NOT LESS THAN 2.0 MILS OF THE PRIME COAT FOR SYSTEM H.
 PRIME COAT, THE PRIME COAT SHALL BE APPLIED IN THE FABRICATION SHOP. THE COST OF THE PRIME COAT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF THE FABRICATED STRUCTURAL STEEL.

MISCELLANEOUS:
 HIGH STRENGTH BOLTS, NUTS AND WASHERS WILL BE SAMPLED FOR QUALITY ASSURANCE AS SPECIFIED IN STANDARD SPECIFICATION 106 AND FIELD SECTION 95-112 FROM MATERIALS MANUAL.

INTEGRAL END BENTS:
 ALL CONCRETE BETWEEN THE UPPER AND LOWER CONSTRUCTION JOINTS IN THE END BENTS IS INCLUDED IN THE ESTIMATED QUANTITIES FOR SLAB ON STEEL.
 ALL REINFORCEMENT IN THE END BENTS IS INCLUDED IN THE ESTIMATED QUANTITIES FOR SLAB ON STEEL.
 FOR STANDARD SPECIFICATIONS, SEE THE SPECIFICATIONS/CONTRACT DOCUMENTS PACKAGE.
 FOR ACCEPTANCE OF PRECAST OR PREFABRICATED MEMBERS SEE THE SPECIFICATIONS/CONTRACT DOCUMENTS PACKAGE.

FOR SOIL BORING DATA AND SOIL BORING LOGS:
 SEE REPORT NO. 055930101, PREPARED BY
 GEOTECHNOLOGY, INC., MAY 15, 2002.

MINIMUM ENERGY REQUIRED OF HAMMER IS BASED ON PILE LENGTH AND DESIGN BEARING VALUE OF PILES.

ALL PILES SHALL BE DRIVEN TO PRACTICAL REFUSAL.

MANUFACTURED PILE POINT REINFORCEMENT SHALL BE USED ON ALL PILES IN THIS STRUCTURE.

ESTIMATED QUANTITIES			
ITEM	SUBSTR.	SUPERSTR.	TOTAL
CLASS 1 EXCAVATION	CY	130	130
BRIDGE APPROACH SLAB (BRIDGE)	SY	289	289
STRUCTURAL STEEL PILES (1/2 IN.)	LF	423	423
PILE POINT REINFORCEMENT	EACH	18	18
CLASS B CONCRETE (SUBSTR.)	CY	40	40
PROTECTIVE COATING - CONCRETE BENTS (WEATHERING STEEL)	LS	1	1
SLAB ON STEEL	SF	672	642
*SAFETY BARRIER CURB	LF	271	271
SIDEWALK (BRIDGES)	SF	253	253
PLAIN NEOPRENE BEARING PAD	EACH	12	12
FABRICATED STRUCTURAL LOW ALLOY STEEL (I-BEAM) ASTM A572 GRADE 50	LB	23672	23672
SLAB DRAIN	EACH	6	6
VERTICAL DRAIN AT END BENTS	EACH	2	2

INDEX OF DRAWINGS:

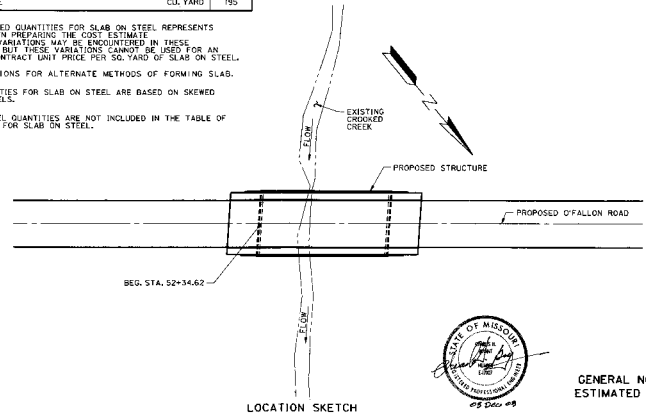
SHEET NO.	TITLE
90	PLAN AND ELEVATION
91	GENERAL NOTES AND ESTIMATED QUANTITIES
92	END BENT 1 DETAILS 1 OF 2
93	END BENT 1 DETAILS 2 OF 2
94	END BENT 2 DETAILS 1 OF 2
95	END BENT 2 DETAILS 2 OF 2
96	END BENT 3 DETAILS 1 OF 2
97	END BENT 3 DETAILS 2 OF 2
98	FRAMING PLAN
99	STRUCTURAL STEEL DETAILS
100	TYPICAL SECTION AND SLAB PLAN
101	SIDEWALK AND RAIL DETAILS 1 OF 2
102	SIDEWALK AND RAIL DETAILS 2 OF 2
103	BILL OF REINFORCING FILE DATA SHEET

ALL CONCRETE ABOVE THE LOWER CONSTRUCTION JOINT IN THE END BENTS IS INCLUDED WITH THE SUPERSTRUCTURE QUANTITIES.
 ALL CONCRETE AND REINFORCING STEEL IN SIDEWALK IS INCLUDED IN THE CONTRACT UNIT PRICE FOR SIDEWALK (BRIDGES), INCLUDES APPROXIMATELY 54 C.Y. OF CONCRETE AND 3745 LBS OF EPOXY COATED REINFORCING STEEL.
 THE COST OF FURNISHING, FABRICATING AND INSTALLING NEOPRENE BEARING PADS, COMPLETE-IN-PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR PLAIN NEOPRENE BEARING PADS PER EACH.
 * SAFETY BARRIER CURB SHALL BE CAST-IN-PLACE OPTION OR SLIP-FORM OPTION, INCLUDES APPROXIMATELY 35 C.Y. OF CONCRETE AND 10000 LBS OF EPOXY COATED REINFORCING STEEL.

ESTIMATED QUANTITIES FOR SLAB ON STEEL		
ITEM		TOTAL
REINFORCING STEEL	POUND	7620
REINFORCING STEEL (EPOXY COATED)	POUND	29038
** CLASS B-2 CONCRETE	CU. YARD	195

THE TABLE OF ESTIMATED QUANTITIES FOR SLAB ON STEEL REPRESENTS THE QUANTITIES USED IN PREPARING THE COST ESTIMATE FOR CONCRETE. SLAB VARIATIONS MAY BE ENCOUNTERED IN THESE ESTIMATED QUANTITIES BUT THESE VARIATIONS CANNOT BE USED FOR AN ADJUSTMENT IN THE CONTRACT UNIT PRICE PER SQ. YARD OF SLAB ON STEEL.
 SEE SPECIAL PROVISIONS FOR ALTERNATE METHODS OF FORMING SLAB.
 THE ESTIMATED QUANTITIES FOR SLAB ON STEEL ARE BASED ON SKEWED PRESTRESSED END PANELS.
 ** THE (PRESTRESS) PANEL QUANTITIES ARE NOT INCLUDED IN THE TABLE OF ESTIMATED QUANTITIES FOR SLAB ON STEEL.

PILE DATA				
BENT NO.		1	2	
BEARING	PILE TYPE AND SIZE	HP12X53	HP12X53	
	NUMBER	9	9	
	APPROXIMATE LENGTH	FT	24	23
	DESIGN BEARING	TONS	70	70
	HAMMER ENERGY REQUIRED	FT.-LBS.	25,000	25,000



GENERAL NOTES AND ESTIMATED QUANTITIES

PLAN
 PROFILE
 PILE DATA
 BILL OF MATERIALS

PLAN
 PROFILE
 PILE DATA
 BILL OF MATERIALS

PILE DATA
 BILL OF MATERIALS

PLAN

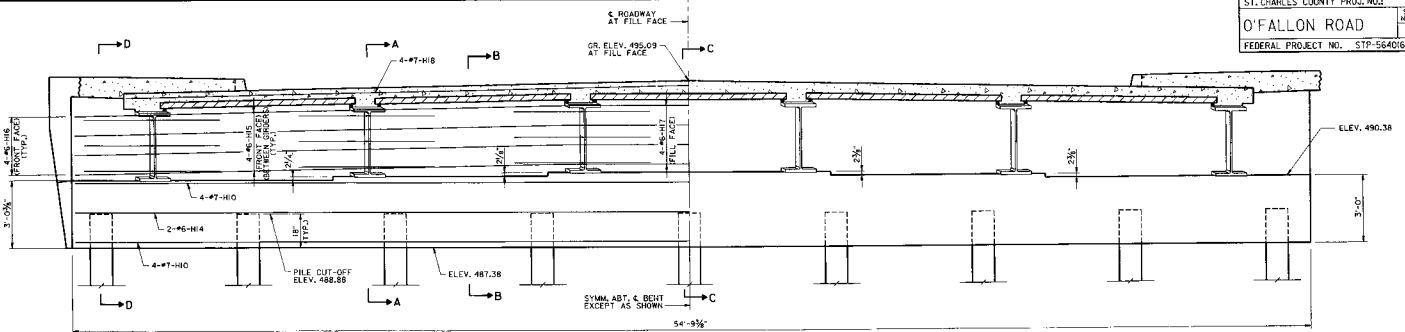
DATE	BY
REVISION	BY
APPROVED	BY
DESIGNED	BY
CHECKED	BY
IN CHARGE	BY
PROJECT NO.	STP-5640/6061

PROFILE

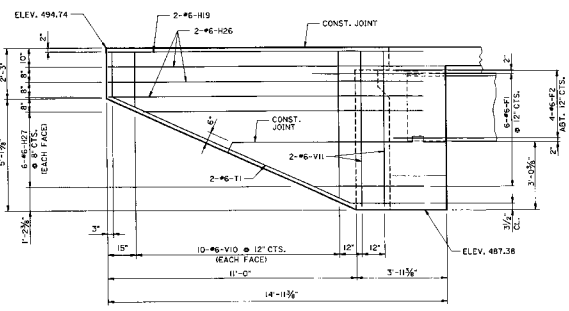
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REVISION	BY
APPROVED	BY
DESIGNED	BY
CHECKED	BY
IN CHARGE	BY
PROJECT NO.	STP-5640/6061

POST-DIST. 1

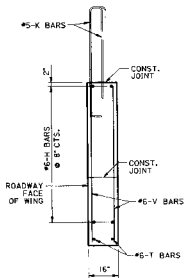
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REVISION	BY
APPROVED	BY
DESIGNED	BY
CHECKED	BY
IN CHARGE	BY
PROJECT NO.	STP-5640/6061



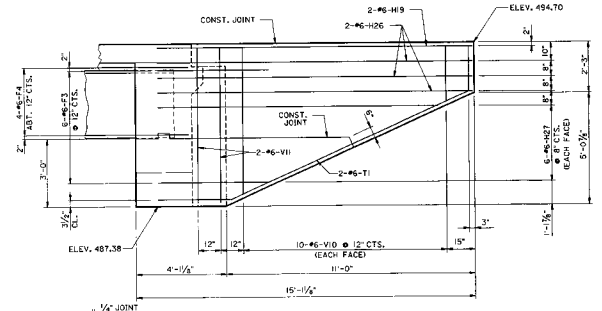
SECTION NEAR END BENT



ELEVATION E-E



SECTION THRU WING

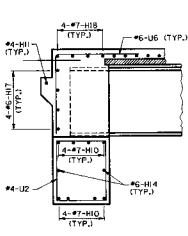


ELEVATION H-H

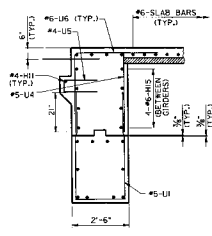
SUBSTRUCTURE QUANTITY TABLE FOR END BENT NO. 1

ITEM	QUANTITY
CLASS I EXCAVATION	CU. YD. 65
STRUCTURAL STEEL PILES (12\"/>	

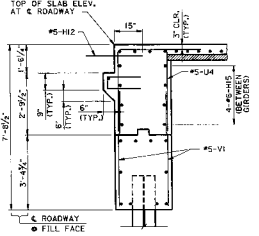
ALL CONCRETE IN THE END BENT ABOVE TOP OF BEAM AND BELOW TOP OF SLAB SHALL BE CLASS B-2.
 FOR LOCATION OF ELEVATIONS E-E AND H-H, SEE SHEET NO. 92.
 FOR REINFORCEMENT OF THE SAFETY BARRIER CURB SEE SHEET NOS. 100 & 101.
 BENT F1 BARS IN FIELD TO CLEAR GIRDERS.
 ALL VERTICAL REINFORCING BARS IN THE SUPERSTRUCTURE BEAMS OR CAPS SHALL BE FIELD ADJUSTED TO CLEAR PILES BY AT LEAST 1/2\"/>



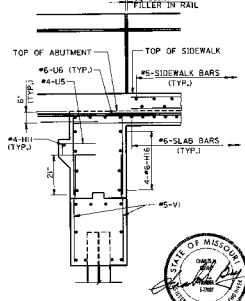
SECTION A-A



SECTION B-B



SECTION C-C



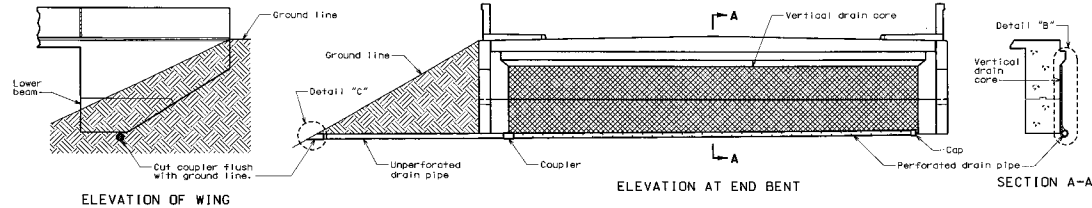
SECTION D-D



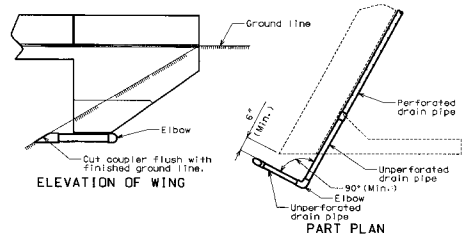
DATE	
BY	
CHKD.	
APPROVED	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	
DATE	
BY	
CHKD.	
APPROVED	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	
DATE	
BY	
CHKD.	
APPROVED	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	

DATE	
BY	
CHKD.	
APPROVED	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	
DATE	
BY	
CHKD.	
APPROVED	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	
DATE	
BY	
CHKD.	
APPROVED	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	

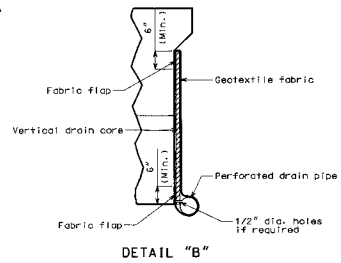
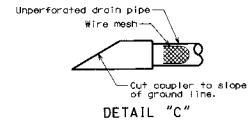
DATE	
BY	
CHKD.	
APPROVED	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	
DATE	
BY	
CHKD.	
APPROVED	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	



Note:
 Drain pipe may be either 6" diameter corrugated metallic-coated steel pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 2" diameter corrugated polyethylene (PE) drain pipe.
 Place drain pipe at fill face of end bent and slope to lowest grade of ground line, also missing the lower beam of end bent by 1-1/2". (See elevation of end bent.)
 Perforated pipe shall be placed at fill face side of the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit of ground line.



OPTIONAL BENT DRAIN (*)
 (*) Only if rock is encountered at outside of wing.



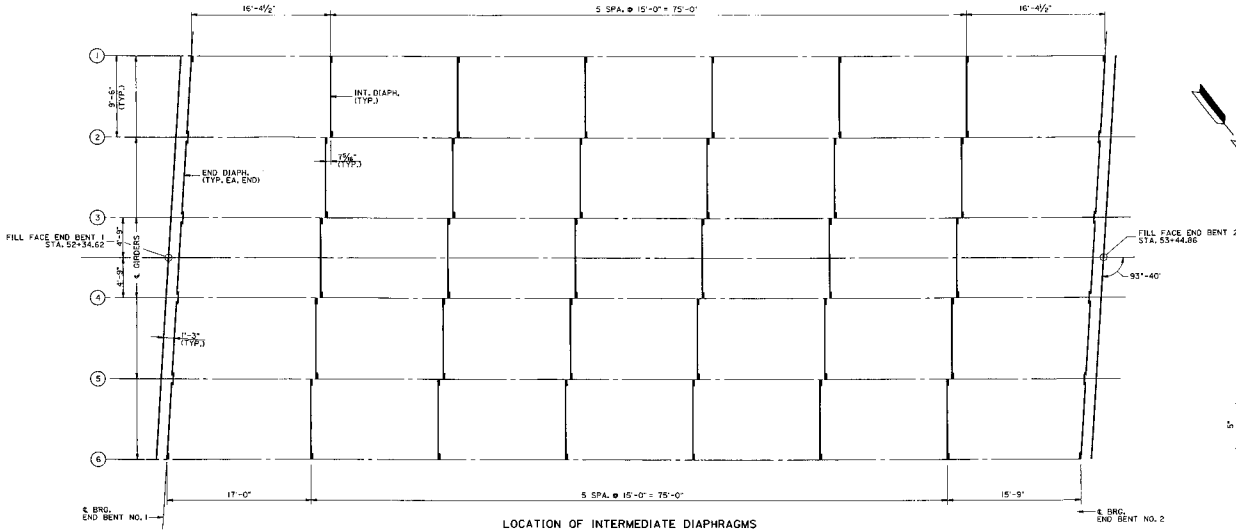
VERTICAL DRAIN AT END BENTS



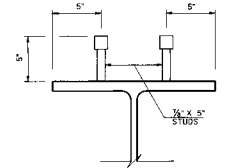
DATE	
BY	
CHKD.	
APP'D.	
SCALE	
PROJECT NO.	
CONTRACT NO.	
SECTION NO.	
DATE	

DATE	
BY	
CHKD.	
APP'D.	
SCALE	
PROJECT NO.	
CONTRACT NO.	
SECTION NO.	
DATE	

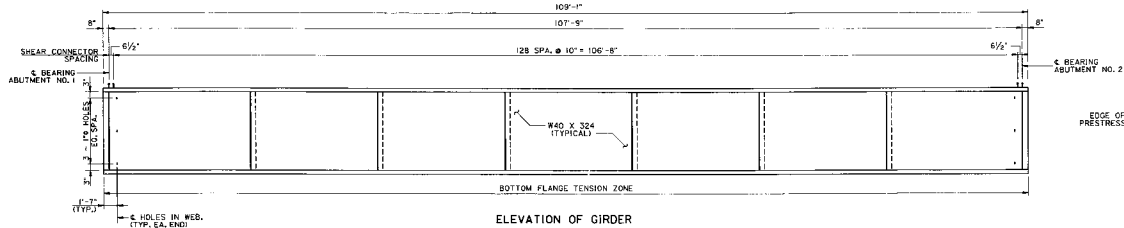
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BY	
CHKD.	
APP'D.	
SCALE	
PROJECT NO.	
CONTRACT NO.	
SECTION NO.	
DATE	



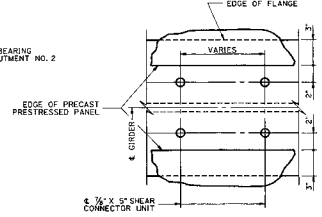
LOCATION OF INTERMEDIATE DIAPHRAGMS



SHEAR CONNECTOR DETAIL



ELEVATION OF GIRDER



SHEAR CONNECTOR LAYOUT

FABRICATED STRUCTURAL STEEL SHALL BE ASTM A709 GRADE S0W EXCEPT AS NOTED.
 SEE SHEET NO. 98 FOR STEEL BEAM DESIGN DATA PER BEAM, TOTAL DEAD LOAD CORRECTION CURVE AND DIAPHRAGM DETAILS.

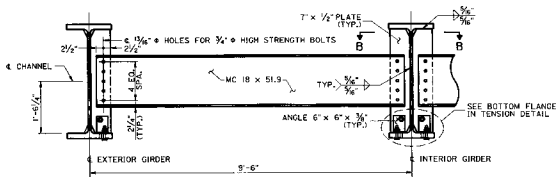


FRAMING PLAN

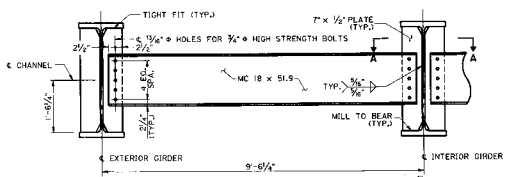
PLAN
 SURVEYED BY
 DATE

SECTION B-B
 SURVEYED BY
 DATE

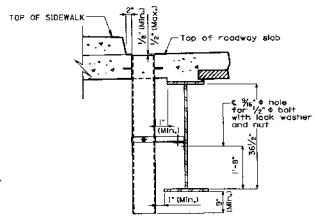
PLAT DATA
 SURVEYED BY
 DATE



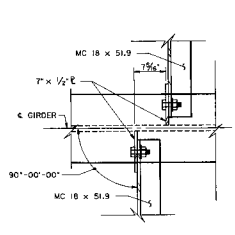
TYPICAL INTERMEDIATE DIAPHRAGM
 (NOT SHOWING ALL BOLTS AT ANGLE FOR CLARITY)



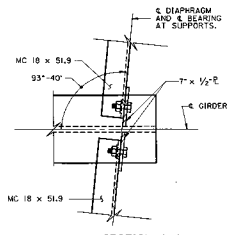
TYPICAL END DIAPHRAGM



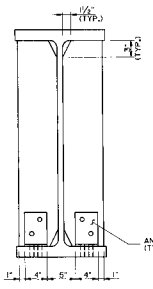
PART SECTION NEAR DRAIN



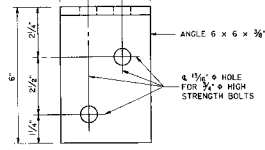
SECTION B-B
 SHOWING TYP. INTERMEDIATE DIAPHRAGM CONNECTION



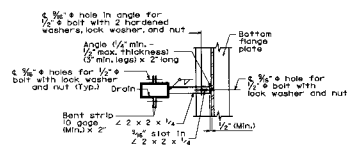
SECTION A-A
 TYPICAL DIAPHRAGM CONNECTION AT ABUTMENTS



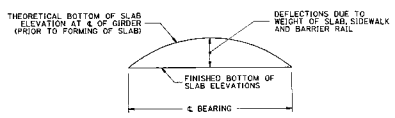
BOTTOM FLANGE IN TENSION
 (NOT SHOWING BOLTS FOR CLARITY)



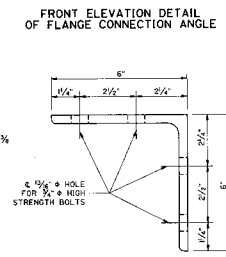
FRONT ELEVATION DETAIL OF FLANGE CONNECTION ANGLE



PART SECTION SHOWING DRAIN BRACKET ASSEMBLY



TYPICAL SLAB ELEVATION DIAGRAM
 MAXIMUM BEAM DEAD LOAD DEFLECTION = 1/2 AT MIDSPAN
 MAXIMUM TOTAL DEAD LOAD DEFLECTION = 7/8 AT MIDSPAN



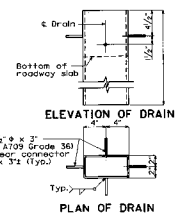
SECTION TROUGH FLANGE CONNECTION
 ANGLE 6' x 6' x 3/4

PART PLAN OF SLAB AT DRAIN
 DETAILS OF DRAINS
 TRANSVERSE TO ROADWAY
 SLAB DRAIN DETAILS

STEEL BEAM DESIGN DATA-PER BEAM

LIVE LOAD DISTRIBUTION FACTOR: 1.73 WHEEL LINES
 DEAD LOAD: (EXCLUDING BEAM WT.) = 1120 LB/FT COMPOSITE = 651 LB/FT
 MAXIMUM POSITIVE MOMENT: (INCLUDING BEAM WT.) (LOAD FACTORED) = 1276 K-FT
 D.L. COMPOSITE = 271.9 K-FT
 D.L. NON-COMPOSITE = 271.9 K-FT
 A. IMPACT = 371.8 K-FT
 TOTAL = 778.8 K-FT
 COMPOSITE DESIGN SLAB (F_{CD} = 4000 PSI): 9' x 8.5'

GIRDER NO.	THEORETICAL BOTTOM OF SLAB ELEVATIONS AT 4 OF GIRDER (PRIOR TO FORMING FOR SLAB)										
	4 BRG. STEEL	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	4 BRG. STEEL
GIRDER NO. 1	493.68	493.90	493.92	493.92	493.89	493.83	493.73	493.60	493.45	493.27	493.09
GIRDER NO. 2	494.07	494.10	494.11	494.11	494.08	494.02	493.89	493.69	493.54	493.31	493.09
GIRDER NO. 3	494.27	494.29	494.31	494.31	494.28	494.22	494.02	493.79	493.53	493.26	493.08
GIRDER NO. 4	494.28	494.30	494.32	494.31	494.28	494.22	494.02	493.79	493.54	493.26	493.08
GIRDER NO. 5	494.09	494.12	494.13	494.13	494.10	494.04	493.84	493.59	493.47	493.23	493.08
GIRDER NO. 6	493.91	493.93	493.95	493.94	493.91	493.85	493.75	493.62	493.46	493.20	493.03



PLAN OF DRAIN

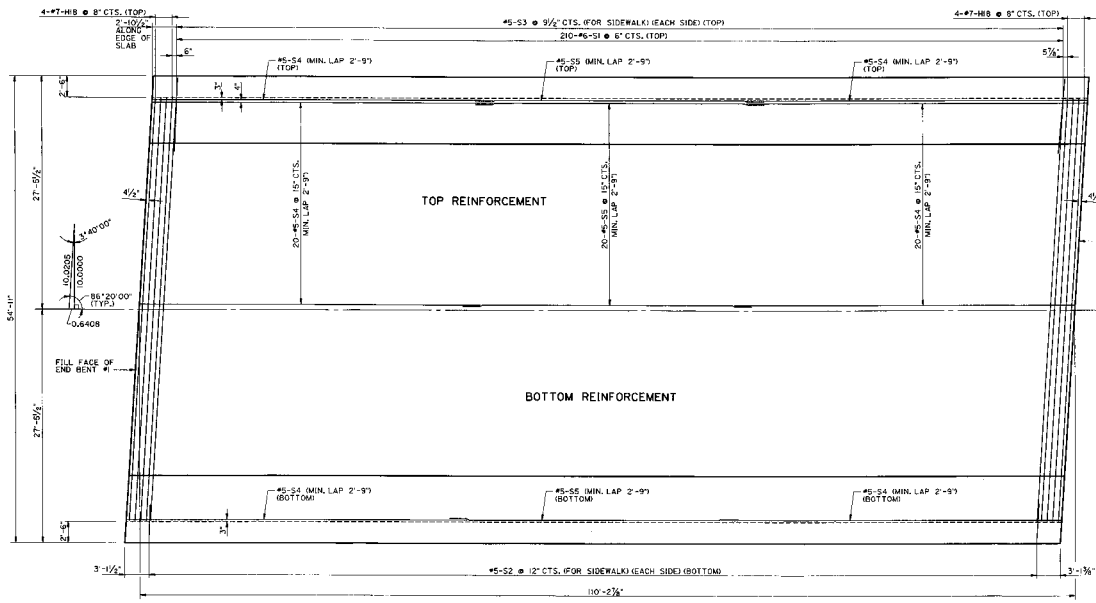
NOTE:
 SLAB DRAINS MAY BE FABRICATED OF EITHER 1/2 WELDED SHEETS OF ASTM A709 GRADE 50 STEEL OR FROM 1/2 STRUCTURAL STEEL TUBING SET IN ACCORD WITH STRUCTURAL STEEL DRAIN BRACKET ASSEMBLY SHALL BE ASTM A709 GRADE 50 STEEL
 OUTSIDE DIMENSIONS OF DRAINS ARE 8" x 4". LOCATE DRAINS IN SLAB BY DIMENSIONS SHOWN IN PART SECTION NEAR DRAIN.
 SHIP REINFORCING STEEL IN FIELD WHERE NECESSARY TO CLEAR DRAINS.
 THE DRAINS AND BRACKET ASSEMBLY SHALL BE GALVANIZED IN ACCORDANCE WITH AISC.
 ALL BOLTS, HARDENED WASHERS, LOCK WASHERS AND NUTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
 SHOP DIMENSIONS WILL NOT BE REQUIRED FOR THE SLAB DRAINS AND THE BRACKET ASSEMBLY.
 1/2" HOLE FOR THE BRACKET ASSEMBLY ATTACHMENT SHALL BE LOCATED ON THE GIBBER SHIP DRAWINGS.
 SEE SHEET NO. 90 FOR DRAIN SPACING.

SLAB DRAIN DETAILS

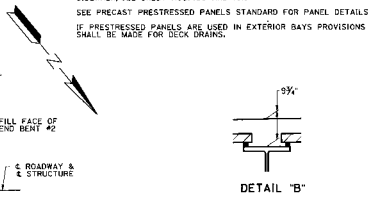


STRUCTURAL STEEL DETAILS

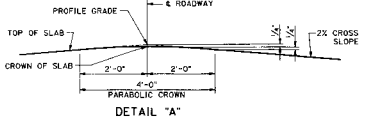
SEE SHEET NO. 98 FOR DECK DRAIN DETAILS.
 FOR THEORETICAL SLAB HAUNCHING DIAGRAM, STEEL GIRDER CAMBER DIAGRAM, SEE SHEET NO. 98.
 FOR DETAILS AND REINFORCEMENT OF SAFETY BARRIER RAIL AND SIDEWALK, SEE SHEET NOS. 100 AND 101.
 SEE PRECAST/PRESTRESSED PANELS STANDARD FOR PANEL DETAILS.
 IF PRESTRESSED PANELS ARE USED IN EXTERIOR BAYS PROVISIONS SHALL BE MADE FOR DECK DRAINS.



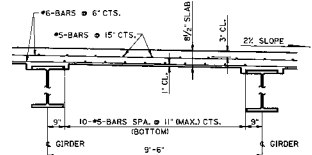
PLAN OF SLAB SHOWING REINFORCEMENT



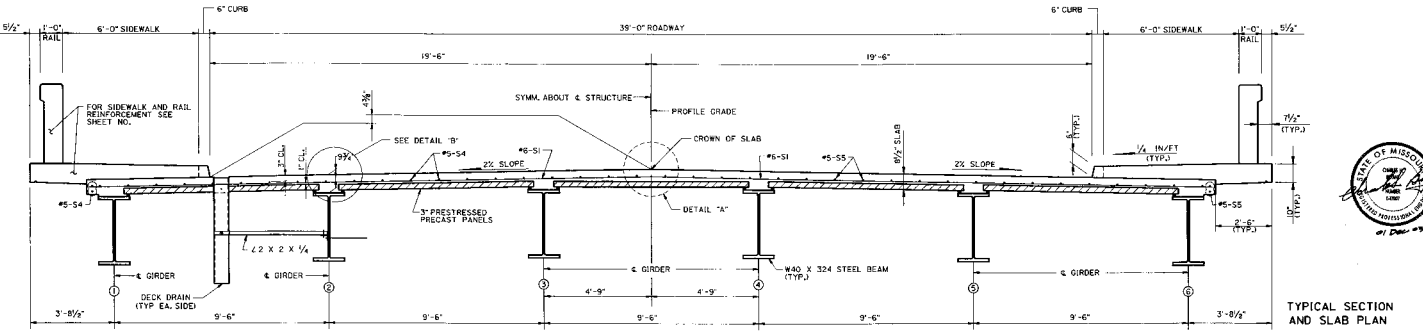
DETAIL "B"



DETAIL "A"



CAST-IN-PLACE OPTION



HALF SECTION NEAR END BENTS

HALF SECTION NEAR CENTER SPAN

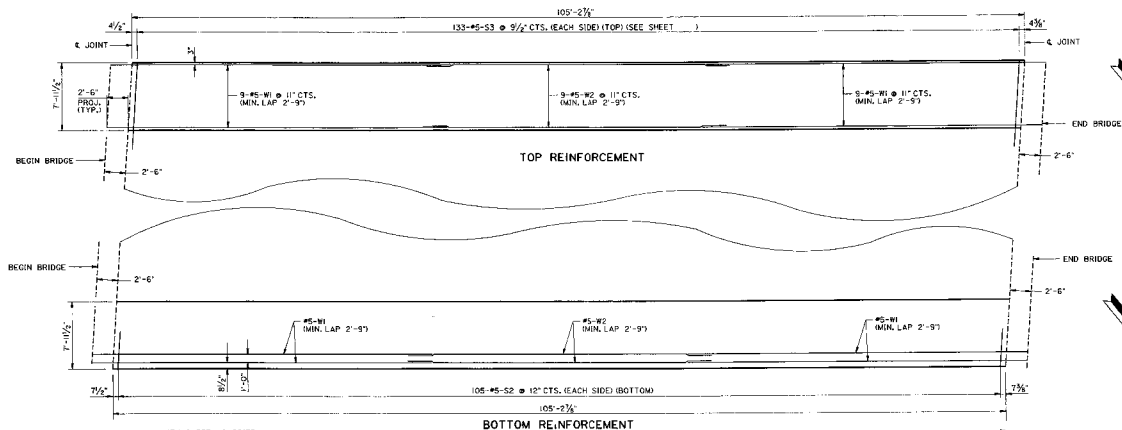
TYPICAL SECTION AND SLAB PLAN



PLAN	DATE	BY

PROFILE	DATE	BY

PLOT DATA	DATE	BY



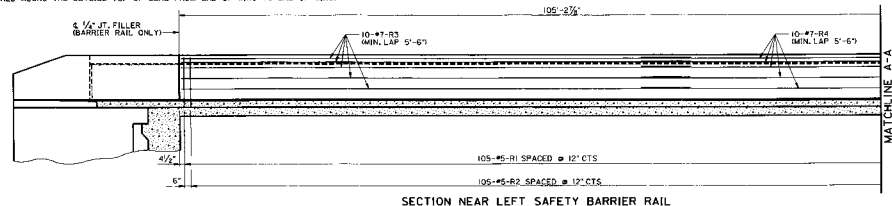
TOP OF SAFETY BARRIER SHALL BE BUILT PARALLEL TO GRADE WITH SAFETY BARRIER JOINTS NORMAL TO GRADE.

ALL EXPOSED EDGES OF SAFETY BARRIER AND SIDEWALK SHALL HAVE EITHER A 1/2" RADIUS OR A 30° BEVEL UNLESS OTHERWISE NOTED.

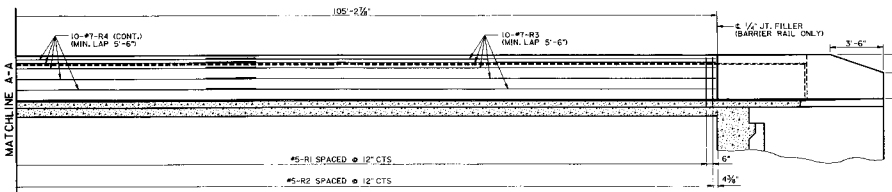
WHEN THE SAFETY BARRIER IS BID BY LINEAR FOOT, THE CONTRACT UNIT PRICE SHALL INCLUDE THE COST OF ALL CONCRETE AND REINFORCEMENT, COMPLETE-IN-PLACE.

MEASUREMENT OF SAFETY BARRIER IS TO THE NEAREST LINEAR FOOT. IS MEASURED ALONG THE OUTSIDE TOP OF SLAB FROM END OF WING TO END OF WING.

PLAN VIEWS OF SIDEWALK SHOWING REINFORCEMENT



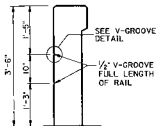
SECTION NEAR LEFT SAFETY BARRIER RAIL



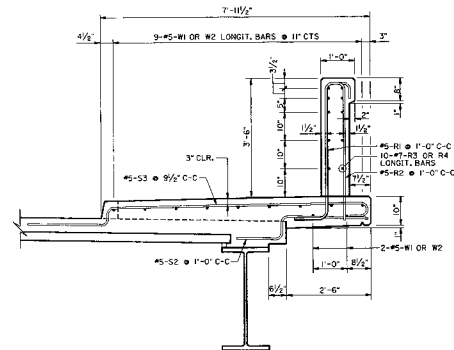
SECTION NEAR LEFT SAFETY BARRIER RAIL



V-GROOVE DETAIL



RAIL RUSTIFICATION DETAIL



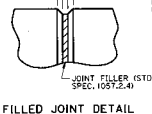
CONCRETE PARAPET AND SIDEWALK DETAILS

WHEN THE SIDEWALK IS BID BY SQ. FOOT, THE CONTRACT UNIT PRICE SHALL INCLUDE THE COST OF ALL CONCRETE AND REINFORCEMENT, COMPLETE IN PLACE.

CONCRETE IN THE SIDEWALK SHALL BE CLASS B-2.

MEASUREMENT OF THE SIDEWALK IS TO THE NEAREST SQUARE FOOT, MEASURED HORIZONTALLY FROM THE FACE OF CURB TO THE OUTSIDE EDGE OF THE STRUCTURE AND FROM END OF WINGWALL TO END OF WINGWALL.

TRANSVERSE SIDEWALK REINFORCING STEEL TO BE PLACED PARALLEL SKEW.



FILLED JOINT DETAIL

SIDEWALK AND RAIL DETAILS
1 OF 2

DATE	01/11/07
PROJECT	O'FALLON ROAD
BY	HW
CHECKED	HW
DATE	01/11/07

DATE	01/11/07
PROJECT	O'FALLON ROAD
BY	HW
CHECKED	HW
DATE	01/11/07

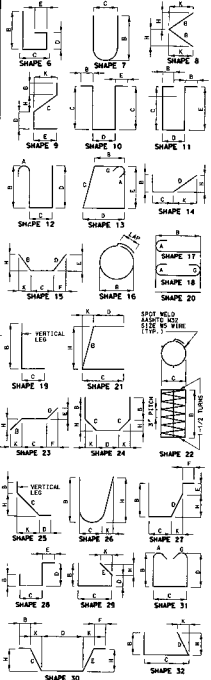
DATE	01/11/07
PROJECT	O'FALLON ROAD
BY	HW
CHECKED	HW
DATE	01/11/07

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	SHAPE NO.	CROSS SECTION	DIMENSIONS											NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
					B	C	D	E	F	H	K	IN. FT.	IN. FT.	IN. FT.	IN. FT.			
SUPERSTRUCTURE																		
END BENTS NO. 1 & NO. 2																		
12	6 F1	WING BRACE	23	S		14.25	4 6.000		14.25	3.625	10.375		9.625	10.375	6 9	6 8	120	
8	6 F2	DIAPHRAGM	21	S		2 3.000	5 2.000						2 3.000	1.750	7 5	7 3	87	
12	6 F3	WING BRACE	23	S		14.25	4 2.000	14.25	10.250	9.625		10.250	3.625	6 6	6 5	116		
8	6 F4	DIAPHRAGM	21	S		2 3.000						2 3.000	1.750	7 5	7 3	87		
14	7 H10	BEAM	20			54 6.000							54 6	54 6	1782			
2	4 H11	APPR. HUNCH	20			49 5.000							49 5	49 5	58			
104	5 H12	APPR. SLAB	E20			2 6.000							2 6	2 6	271			
4	6 H14	BEAM	20			54 6.000							54 6	54 6	327			
40	6 H15	DIAPHRAGM	20			9 2.000							9 2	9 2	581			
16	6 H16	DIAPHRAGM	20			3 4.000							3 4	3 4	80			
8	6 H17	DIAPHRAGM	20			54 6.000							54 6	54 6	655			
8	7 H18	DIAPHRAGM	E20			60 3.000							60 3	60 3	81			
8	6 H19	WING	E20			13 1.000							13 1	13 1	167			
24	6 H20	WING	20			13 1.000							13 1	13 1	502			
48	6 H21	WING	20			4 10.000							4 8	4 8	625			
INCREMENT 18.000 INCH																		
8	6 Y1	WING	25			2 0.000	11 2.500	3 3.000			4 9.000	10 6.000		16 9	16 8	401		
84	5 U1	BEAM	10	S		4 11.000	2 3.000						12 1	11 1	1044			
40	4 U2	BEAM	10	S		2 3.000	9 0.000	2 3.000	2 3.000				10 9	10 7	281			
106	5 U3	DIAPHRAGM	E10	S		4 1.000	2 3.000						10 5	10 9	1123			
94	4 U5	APPR. HUNCH	10	S			17.500	6.000					3 5	3 3	204			
138	6 U6	DIAPHRAGM	E10	S		4 1.000	4 5.000						8 6	8 4	1727			
36	5 V1	BEAM	20			5 0 0.000							5 0	5 0	188			
80	6 V10	WING	20			2 6.000							4 6	4 6	541			
INCREMENT 5.375 INCH																		
16	6 W1	WING	20			6 10.000							6 10	6 10	164			

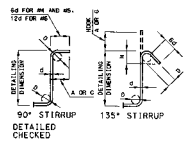
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	SHAPE NO.	CROSS SECTION	DIMENSIONS											NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
					B	C	D	E	F	H	K	IN. FT.	IN. FT.	IN. FT.	IN. FT.			
SLAB																		
210	4 S1	SLAB	E20														49 8.000	
210	5 S2	SLAB	E20														1 3.00 8.50 2 6.00	
265	5 S3	SLAB	E37														2 6.00 6.00 7 6.00	
88	5 S4	SLAB	E20														40 0.00	
144	5 S5	SLAB	E20														35 6.00	
RAIL																		
210	5 R1	RAIL	E28														5.00 9.00 4 1.00 1 0.00	
210	5 R2	RAIL	E10														4 1.00 7.00 1 0.00	
40	7 R3	RAIL	E20														40 0.00	
20	7 R4	RAIL	E20														36 3.00	
80	5 K1	RAIL/WING	K8														5.00 9.00 4 10.00 8.00	
60	5 K2	RAIL/WING	E5														4 10.00 7.00 4 10.00 8.00	
40	7 K3	RAIL/WING	E10														11 5.00	
18	7 K4	RAIL/WING	E20														8 11.00	
8	7 K5	RAIL/WING	E10														8 3.00	
8	7 K6	RAIL/WING	E14														5 6.00 3 9.00	
SIDEWALK																		
44	5 W1	SIDEWALK	E20														40 0.00	
22	5 W2	SIDEWALK	E20														36 3.00	
36	5 X1	SIDEWALK	E10														14 7.00	
60	5 Y1	SIDEWALK	E10														1 0.00 7 6.00	



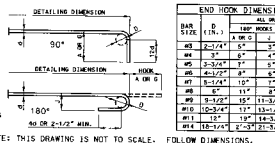
PLAN
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 SECTION
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PROFILE
 ELEVATION
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 DETAIL



STIRRUP HOOK DIMENSIONS
 GRADES 40 - 60 - 65 KSI

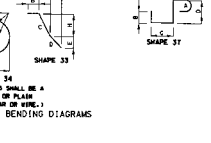
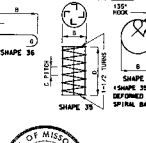
BAR SIZE (IN.)	90° HOOK	135° HOOK
#3	1 1/2"	2 1/4"
#4	2"	3 1/4"
#5	2 1/2"	4"
#6	3 1/4"	5 1/4"
#7	4 1/4"	6 1/4"
#8	5 1/4"	7 1/4"
#9	6 1/4"	8 1/4"
#10	7 1/4"	9 1/4"



END HOOK DIMENSIONS (IN.)
 ALL BARS

BAR SIZE (IN.)	90° HOOK	135° HOOK
#3	1 1/2"	2 1/4"
#4	2"	3 1/4"
#5	2 1/2"	4"
#6	3 1/4"	5 1/4"
#7	4 1/4"	6 1/4"
#8	5 1/4"	7 1/4"
#9	6 1/4"	8 1/4"
#10	7 1/4"	9 1/4"

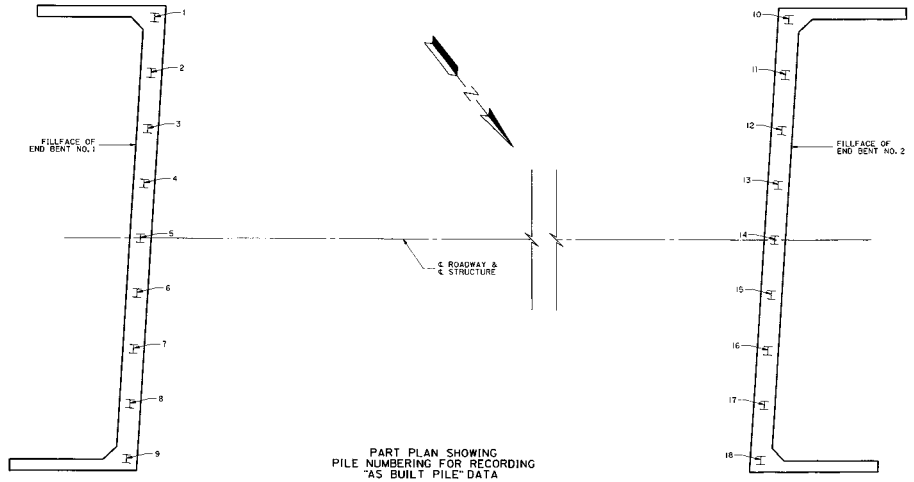
NOTE:
 ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH THE SAME PROCEDURE AS FOR 90 DEGREE HOOKS.
 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
 REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
 5 - DIM IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
 6 - DIM DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE NEXT LINE.
 7 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 8 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 9 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 10 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 11 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 12 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 13 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 14 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 15 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 16 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 17 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 18 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 19 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 20 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 21 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 22 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 23 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 24 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 25 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 26 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 27 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 28 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 29 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 30 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 31 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 32 - DIM IS NUMBER OF BARS OF EACH LENGTH.
 33 - DIM IS NUMBER OF BARS OF EACH LENGTH.



PLAN
 PROFILE
 ELEVATION
 SECTION
 DETAIL

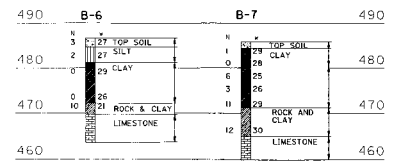
NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.





LEGEND:

N DENOTES NUMBER OF BLOWS/FT
 W DENOTES WATER CONTENT, PERCENT



BORING LOG DATA

PLAN	SCALE
DATE	
BY	
CHECKED BY	
APPROVED BY	
DATE	

PROFILE	SCALE
DATE	
BY	
CHECKED BY	
APPROVED BY	
DATE	

PLOT DATA	SCALE
DATE	
BY	
CHECKED BY	
APPROVED BY	
DATE	

"AS BUILT PILE" DATA			
PILE NO.	LENGTH IN PLACE (FT.)	COMPUTED BEARING (TONS)	REMARKS
			END BENT NO. 1
1			
2			
3			
4			
5			
6			
7			
8			
9			

"AS BUILT PILE" DATA			
PILE NO.	LENGTH IN PLACE (FT.)	COMPUTED BEARING (TONS)	REMARKS
			END BENT NO. 2
10			
11			
12			
13			
14			
15			
16			
17			
18			

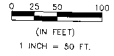
NOTE: INDICATE IN REMARKS COLUMN

- A.) IF PILING WERE DRIVEN TO PRACTICAL REFUSAL.
- B.) PILE BATTER IF OTHER THAN SHOWN ON BENT DETAIL SHEET.
- C.) TYPE OF PILING USED.

NOTE: THIS SHEET TO BE COMPLETED BY COUNTY CONSTRUCTION PERSONNEL.



GRAPHIC SCALE



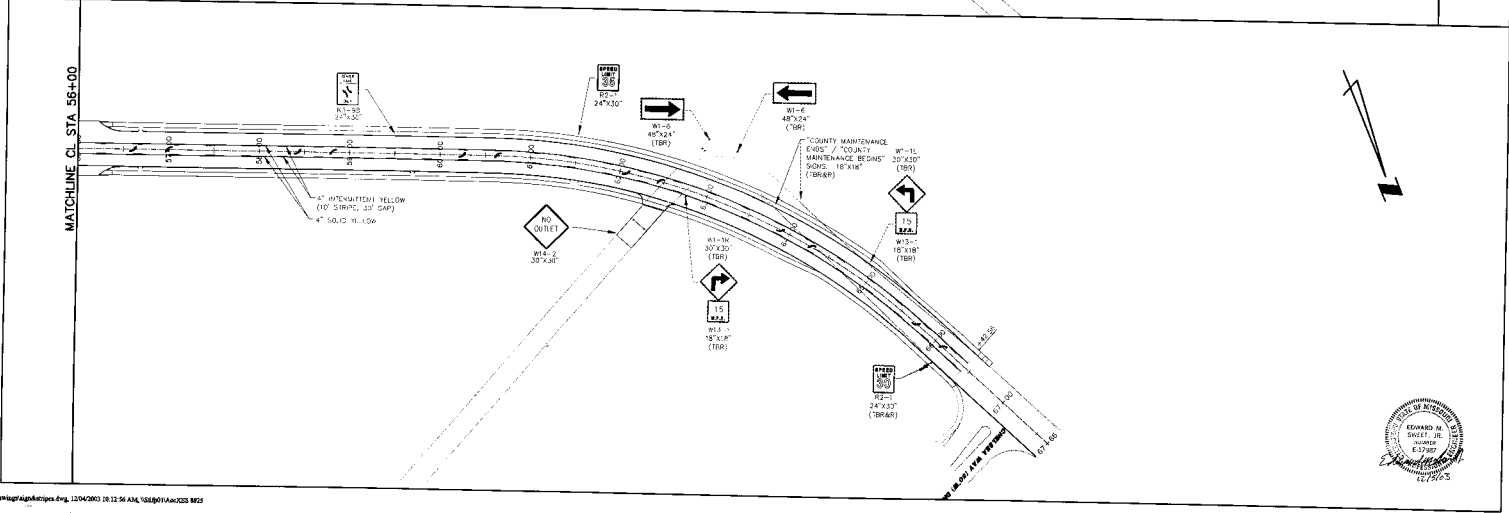
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REVISED		
DATE	BY	
DATE	BY	
DATE	BY	

ROUTE	SECTION	DATE
NO.		
DATE	BY	
DATE	BY	
DATE	BY	

PLOT DATA	DATE	BY
NO.		
DATE	BY	
DATE	BY	

MATCHLINE CL STA 45+00

MATCHLINE CL STA 56+00



MATCHLINE CL STA 56+00



11/29/85

GENERAL NOTES

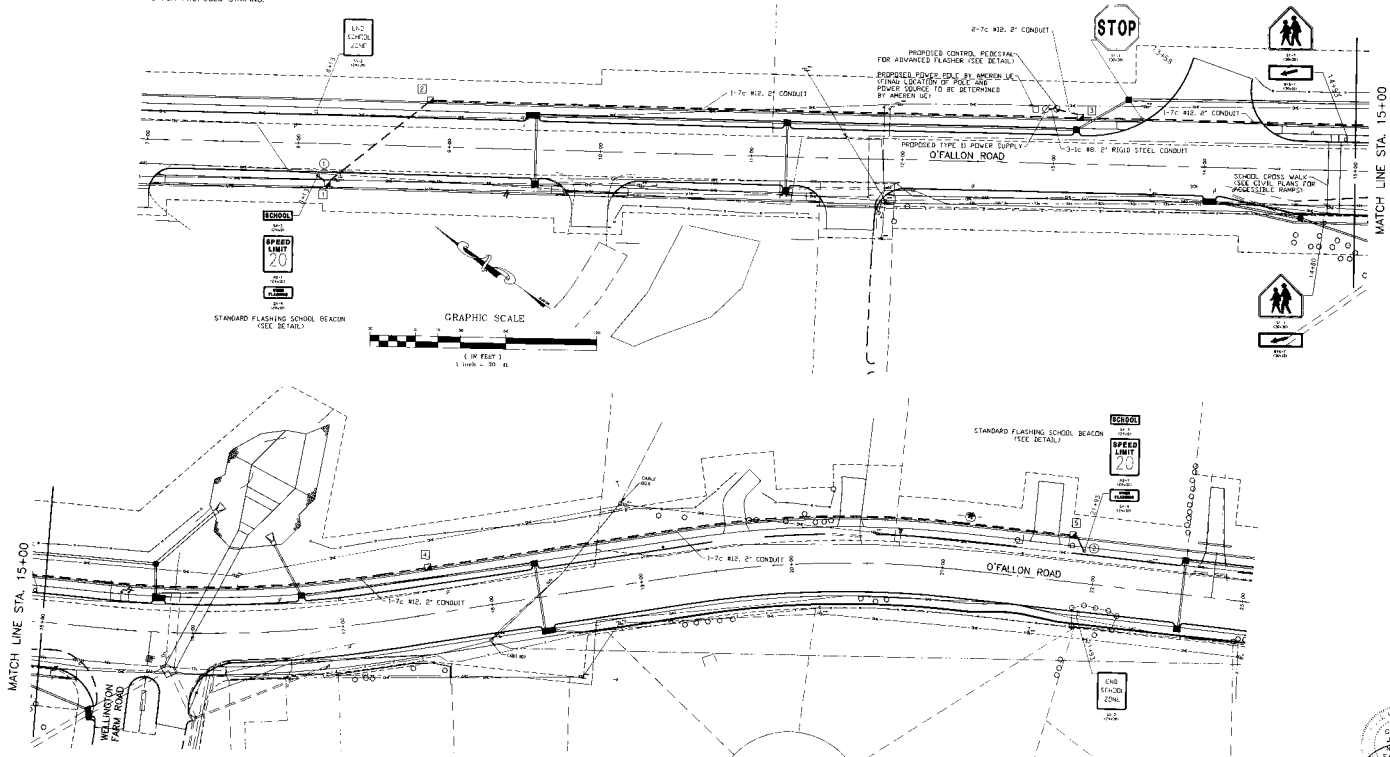
- UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NONEXISTENCE, SIZE, TYPE, NUMBER OR LOCATION OF THESE OR OTHER UTILITIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319, RSMO.
- CONTRACTOR SHALL NOT INSTALL POWER CONDUIT OR CABLES UNTIL MEETING WITH POWER COMPANY TO DETERMINE FINAL LOCATION.
- SEE CIVIL PLANS FOR ALL PROPOSED SIDEWALKS, ACCESSIBLE RAMPS, AND CURB LOCATIONS.
- SEE STRIPING PLANS FOR PROPOSED STRIPING.

LEGEND

- | | | | |
|---|------------------------------|---|--------------------|
| — | STOP LINE | — | STREET SIGN |
| ● | TYPE B BASE | — | PRIORITY LINE |
| ○ | TYPE C BASE | — | RECURRING |
| ⊖ | FLASHER CONTROLLER ENCLOSURE | — | TO BE REMOVED |
| ⊕ | PULL BOX TYPE 1, PREFORMED | — | USE IN PLACED |
| ⊖ | FLYING CONTROLLER | — | CONTINUING |
| ⊕ | POWER POLE | — | OVER HEAD ELECTRIC |
| ⊖ | TYPE A POWER SUPPLY | — | WATER LINE |
| ⊕ | EXISTING PULL BOX | — | TELEPHONE LINE |
| ⊖ | POWER POLE | — | ONE WAY |
| ⊕ | CONDUIT IN TRENCH | — | WATER VALVE |
| ⊖ | POST NUMBER | — | FIRE HYDRANT |
| ⊕ | PULL BOX NUMBER | — | PULL BOX |

GENERAL NOTES

- ADVANCED WARNING BEACONS SHALL BE PROGRAMMED TO OPERATE FOR 45 MINUTES BEFORE THE START OF SCHOOL TO 15 MINUTES AFTER THE START OF SCHOOL, AND IN THE AFTERNOON THEY SHOULD FLASH FROM 15 MINUTES PRIOR TO SCHOOL, DISMISSAL, AND 45 MINUTES AFTER SCHOOL DISMISSAL.
- SEE DETAIL FOR WIRING DIAGRAM FOR ADVANCED FLASHERS (TIME CLOCK ACTIVATION).
- PROPOSED SIGNING IS INDICATED ON THIS PLAN FOR CONTRACTORS USE ONLY. ALL SIGN QUANTITIES AND LAYOUT LOCATION ARE SHOWN ON THE STRIPING AND SIGNING PLANS.



PLAN

DATE	BY

PROFILE

DATE	BY

PLAT DATA

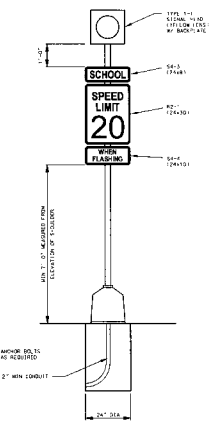
DATE	BY

ST. CHARLES COUNTY ENGINEERING DEPARTMENT
 GEORGE JOHN
 63773
 7.2-03

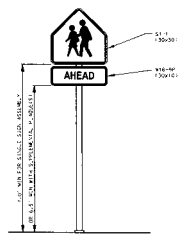
PLAN	DATE
DESIGNED BY	
CHECKED BY	
IN CHARGE BY	

PROFILE	DATE
DESIGNED BY	
CHECKED BY	
IN CHARGE BY	

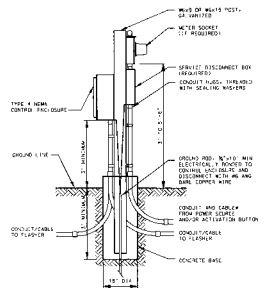
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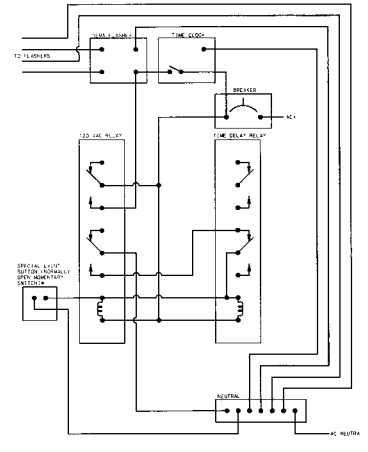
STANDARD FLASHING SCHOOL BEACON



STANDARD SIGN MOUNTING



CONTROL PEDESTAL FOR ADVANCED FLASHER



WIRING DIAGRAM FOR ADVANCED FLASHER - TIME CLOCK ACTIVATION



SEE SHEET 110 FOR SIGN LEGEND.

LEGEND

- TEMPORARY PAVEMENT
- NEW PAVEMENT

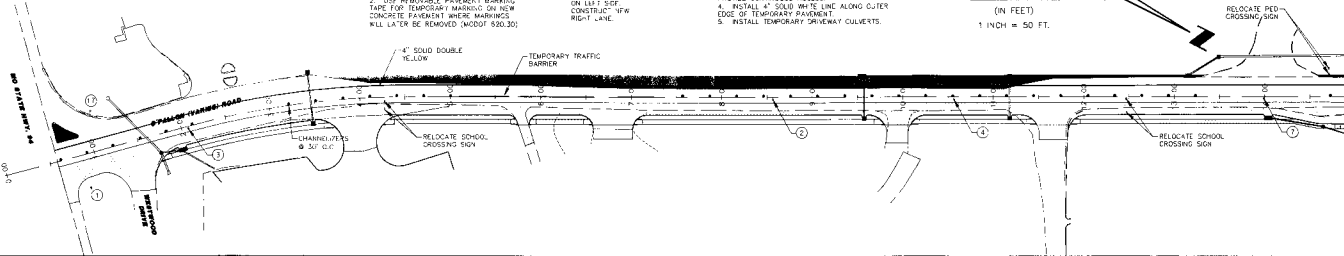
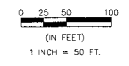
STRING NOTES
 1. USE MARKS ON TEMPORARY ASPHALT SURFACES THAT ARE TO BE REMOVED AND FOR FINAL PAVEMENT MARKINGS (WOODS) (60,50)
 2. USE IN REMOVABLE PAVEMENT MARKING TAPE FOR TEMPORARY MARKING ON NEW CONCRETE PAVEMENT WHERE MARKINGS WILL LATER BE REMOVED (WOODS) (60,50)

INSTALL TEMPORARY ASPHALT PAVEMENT ON LEFT SIDE CONSTRUCT "IFW" RIGHT LANE.

PHASE 1

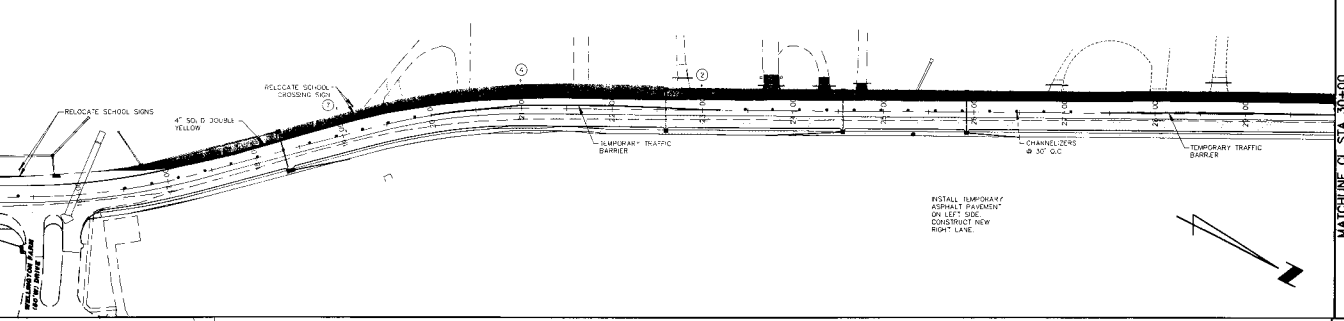
1. REMOVE AND REPOSITION SCHOOL CROSSING SIGNS
2. INSTALL TEMPORARY PAVEMENT TO MAINTAIN DRIVEWAY AND STREET ACCESS
3. CONSTRUCT SIDE LIMITS IN STAGES TO PROVIDE CONTIGUOUS ACCESS
4. INSTALL 4" SOLID WHITE LINE ALONG CUTTER EDGE OF TEMPORARY PAVEMENT
5. INSTALL TEMPORARY DRIVEWAY COVERTS.

GRAPHIC SCALE



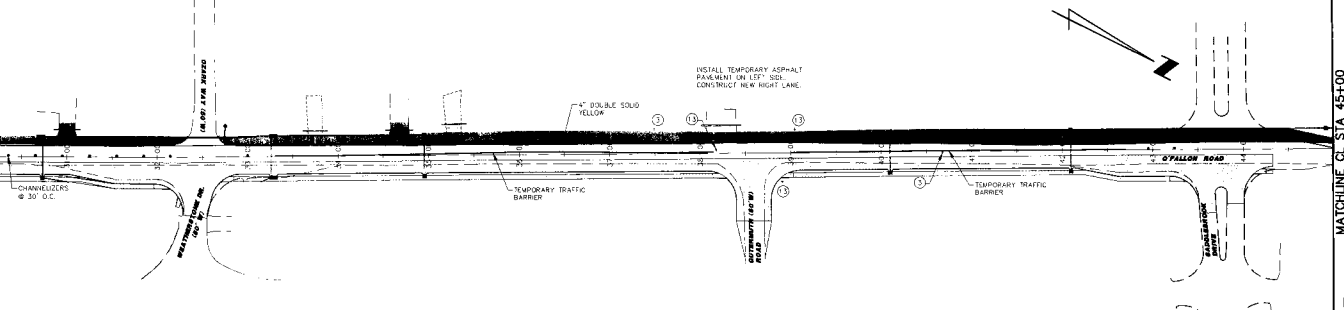
MATCHLINE CL STA 15+00

MATCHLINE CL STA 15+00



MATCHLINE CL STA 30+00

MATCHLINE CL STA 30+00



MATCHLINE CL STA 45+00

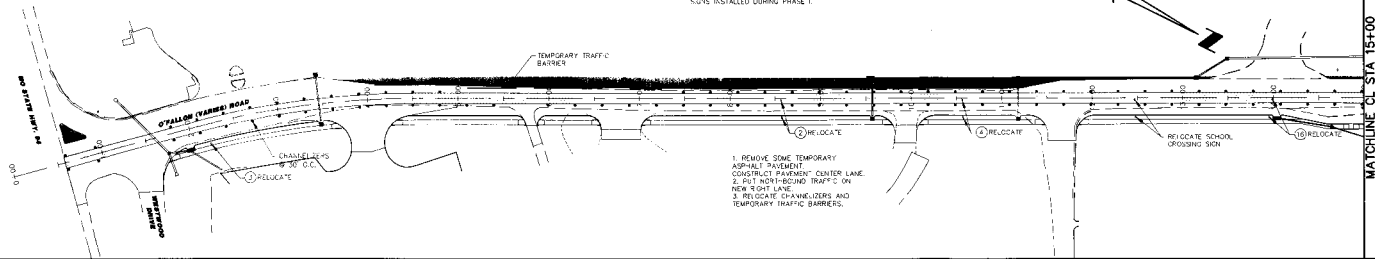


PHASE 1

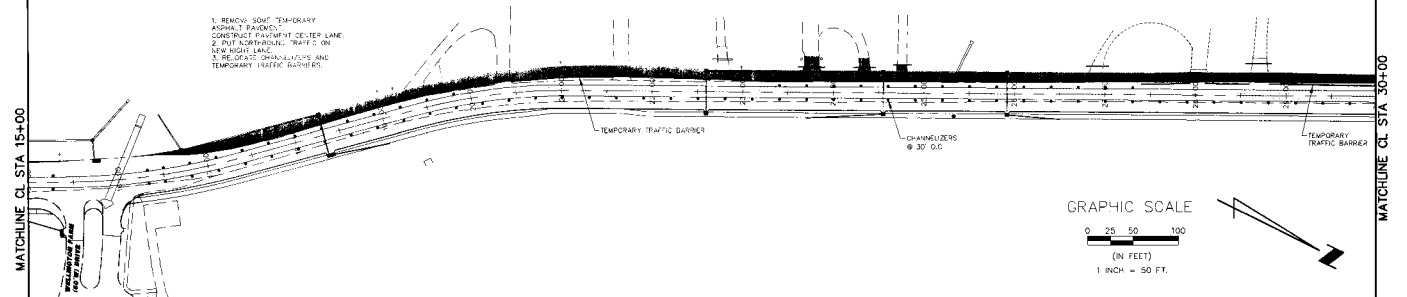
PHASE 2

1. REMOVE AND REPOSITION SCHOOL CROSSING
2. CONSTRUCT SIDE STREETS IN STAGES TO PROVIDE CONTINUOUS ACCESS.
3. REMOVE AND RELOCATE TRAFFIC CONTROL SIGNS INSTALLED DURING PHASE 1.

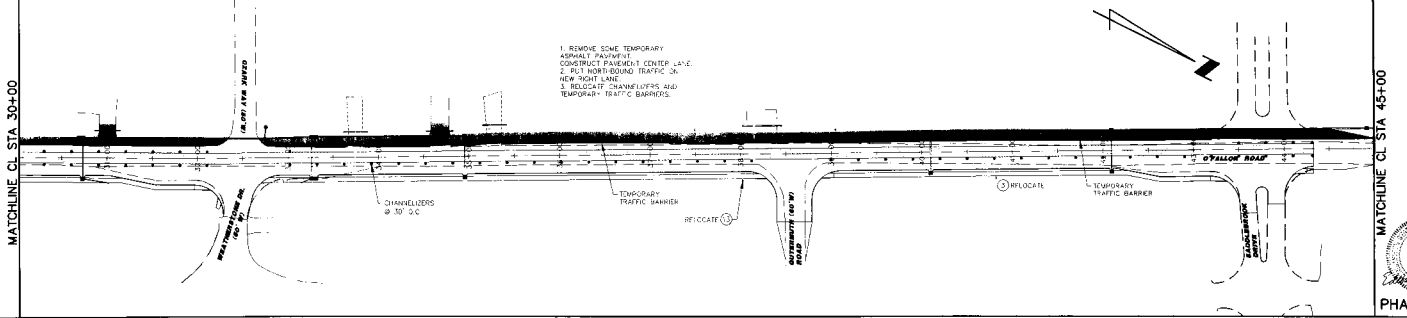
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CHECKED BY	PROJECT NO.
DATE	BY



PROFILE	DATE
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DATE	BY

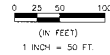


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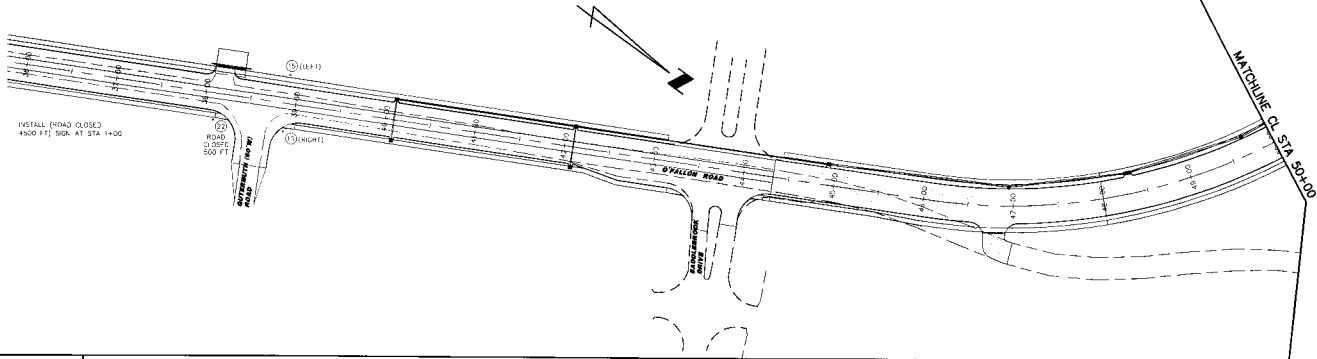
PHASE 2

GRAPHIC SCALE



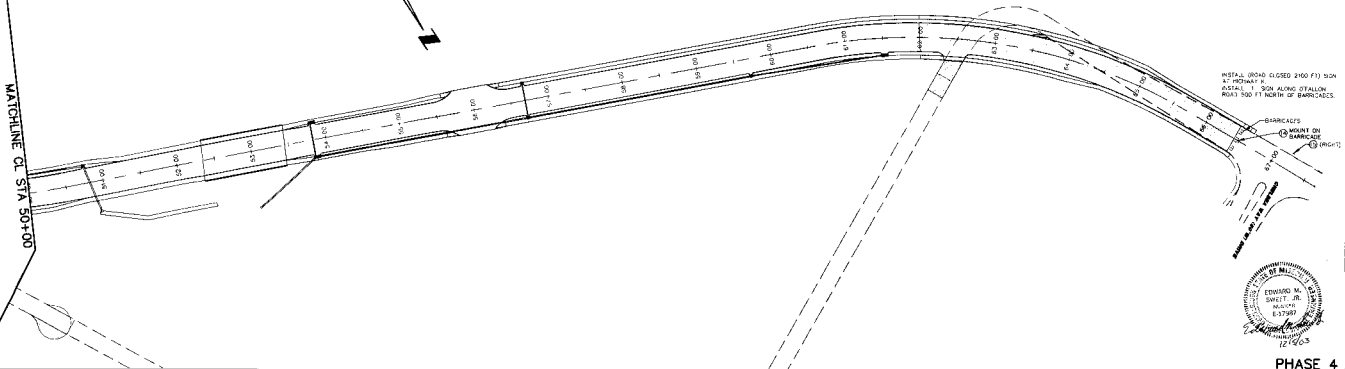
PHASE 4

1. INSTALL ALL PERMANENT SIGNING
2. INSTALL ALL PERMANENT SIGNAGE
3. REMOVE ALL C-WHEELZERS AND TEMPORARY ROAD C. SIGNAGE
4. REMOVE TEMPORARY CULVERTS



INSTALL ROAD CLOSED
 4300 FT SIGN AT STA 1+00

1. INSTALL ALL PERMANENT SIGNING
2. INSTALL ALL PERMANENT SIGNAGE
3. REMOVE ALL C-WHEELZERS AND TEMPORARY TRAFFIC PLACEMENTS
4. REMOVE TEMPORARY CULVERTS



INSTALL ROAD CLOSED 240 FT SIGN AT MATCHLINE 1 SOIL ALONG WALLOW ROAD 500 FT NORTH OF BARRICADES

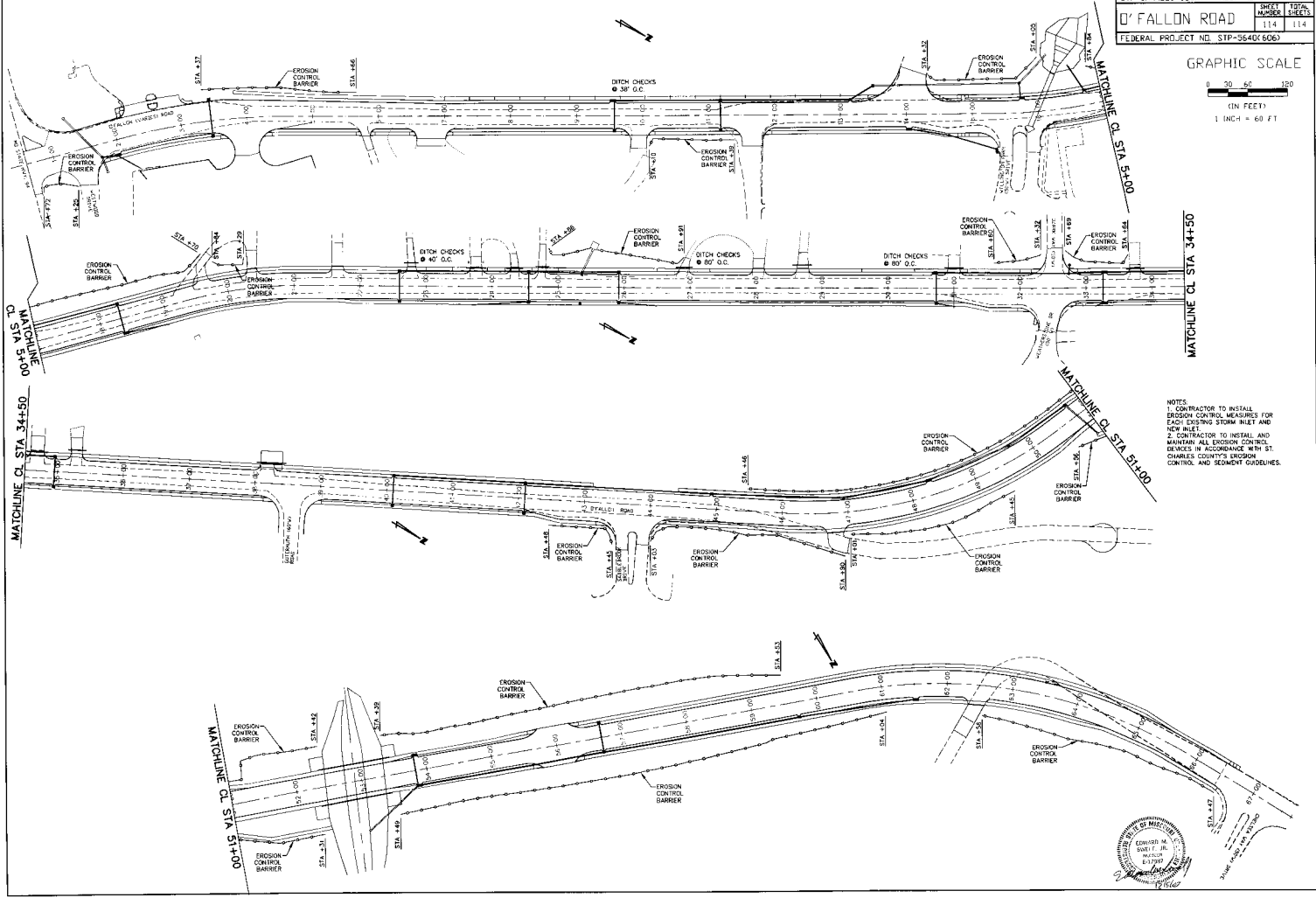
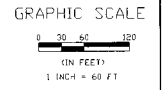


PHASE 4

DATE	
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BY	
FOR	
REVISIONS	
NO.	DATE
1	12/03

DATE	
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REVISIONS	
NO.	DATE
1	12/03

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BY	
FOR	
REVISIONS	
NO.	DATE
1	12/03



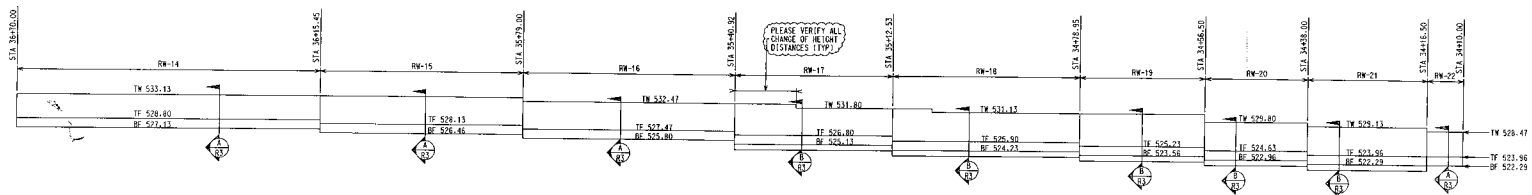
- NOTES**
1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES FOR EACH EXISTING STORM INLET AND NEW INLET.
 2. CONTRACTOR TO INSTALL AND MAINTAIN ALL EROSION CONTROL DEVICES IN ACCORDANCE WITH ST. CHARLES COUNTY'S EROSION CONTROL AND SEDIMENT GUIDELINES.



DATE	BY	REVISION

DATE	BY	REVISION

DATE	BY	REVISION

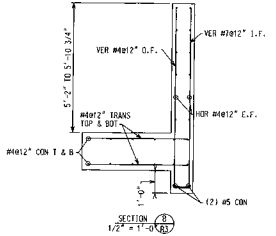
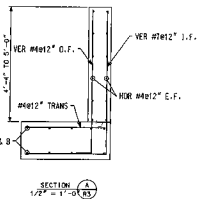


ELEVATION RETAINING WALL 4
1/8"=1'-0"

SIZE	EP	BAR MARK	V	TP	CD	A	B	C	D	REINFC. DIMENSIONS	H	J	X	O
7	7	702	1	17				3'-07"	5'-06 1/2"					
7	7	704	1	17				3'-07"	5'-09"					
7	7	707	1	21	0'-07"			7'-00 1/2"						
7	7	708	1	21	0'-07"			7'-11"						
7	7	7011	2	2	0'-07"			7'-09 1/2"						
7	7	7012	2	3	0'-07"			8'-05 1/2"						
7	7	7014	2	3	0'-07"			7'-05"						
7	7	7016	11	11				3'-07"	5'-09"					
4	4	4C1	2	2	0'-08"			5'-06 1/2"						
4	4	4C3	2	2	0'-08"			4'-05"						
4	4	4C5	2	2	0'-07"			7'-00 1/2"						
4	4	4C6	2	2	0'-07"			7'-11"						
4	4	4C8	2	2	0'-07"			7'-06 1/2"						
4	4	4C10	2	2	0'-07"			8'-01 1/2"						
4	4	4C13	2	2	0'-07"			7'-00"						
4	4	4C19	2	2	0'-08"			5'-09"						



LABEL	RD	PL	QTY	PLAN LOCATION: RET WALL SIZE LENGTH BARMARK	PLACING NOTES	LABEL	RD	PL	QTY	PLAN LOCATION: RET WALL SIZE LENGTH BARMARK	PLACING NOTES
Cross Ref.: RW 14 SECTION: 1 CON 2x 5 4 30-00 TRANS 2x 5 4 30-00 CON VER 36 4 3'-06 VER VER 56 4 3'-06 HOR 2x 5 4 30-00 I 2x 5 4 28-04						Cross Ref.: RW 19 SECTION: 1 CON 2x 5 4 21-11 TRANS 2x 23 4 4'-06 CON VER 2 5 21-11 VER VER 19 4 4'-06 HOR 2x 23 4 22-01 I 2x 6 4 24-03					
Cross Ref.: RW 15 SECTION: 1 CON 2x 5 4 30-00 TRANS 37 4 3'-06 CON VER 37 4 3'-06 VER VER 37 4 3'-06 HOR 2x 5 4 30-00 I 2x 5 4 8-01 I 2x 5 4 30-00 I 2x 5 4 10-03						Cross Ref.: RW 20 SECTION: 1 CON 2x 5 4 16-00 TRANS 2x 23 4 4'-06 CON VER 2 5 10-00 VER VER 19 4 4'-06 HOR 16 4 18-02 I 2x 5 4 20-04					
Cross Ref.: RW 16 SECTION: 1 CON 2x 5 4 30-00 TRANS 39 4 3'-06 CON VER 39 4 3'-06 VER VER 39 4 3'-06 HOR 2x 5 4 30-00 I 2x 5 4 11-13						Cross Ref.: RW 21 SECTION: 1 CON 2x 5 4 21-00 TRANS 2x 23 4 4'-06 CON VER 2 5 21-00 VER VER 19 4 4'-06 HOR 22 4 22-01 I 2x 5 4 21-04 I 2x 5 4 20-04					
Cross Ref.: RW 17 SECTION: 1 CON 2x 6 4 27-11 TRANS 2x 2 4 4'-06 CON VER 12 4 4'-06 VER VER 12 4 4'-06 HOR 12 4 4'-06 I 2x 6 4 30-02 I 2x 6 4 30-02						Cross Ref.: RW 22 SECTION: 1 CON 2x 5 4 6-00 TRANS 2x 23 4 3'-06 CON VER 2 4 3'-06 VER VER 1 4 3'-02 HOR 2x 7 4 6-02					
Cross Ref.: RW 18 SECTION: 1 CON 2x 6 4 31-01 TRANS 2x 36 5 33-01 CON VER 27 4 4'-06 VER VER 27 4 4'-06 HOR 8 6 4'-06 I 2x 2 4 5'-00 I 2x 6 4 30-00						Cross Ref.: RW 23 SECTION: 1 CON 2x 5 4 6-00 TRANS 2x 23 4 3'-06 CON VER 2 4 3'-06 VER VER 1 4 3'-02 HOR 2x 7 4 6-02					



ALL REINFORCING ASTM 60
LAP ALL REINFORCING 49D UNO

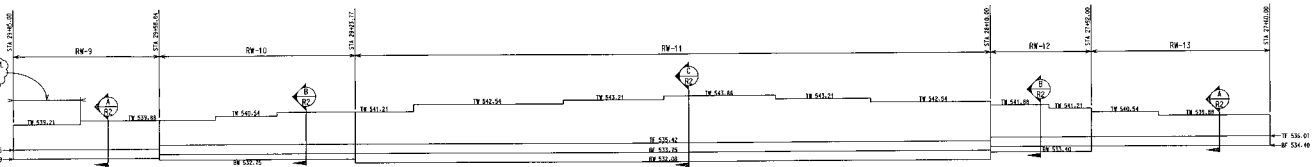
THE CARTER-WATERS CORPORATION
KANSAS CITY, MISSOURI

JOB - 07 FALLON ROAD PROJECT
ARCH./ENGR. - ST. CHARLES HIGHWAY DEPT.
CONTRACTOR - B. MILTON ANDERSON CO. LLC

DATE: 4-28-04
SCALE: AS NOTED
DRAWN BY: REGIN KELLEY
CHECKED BY: R3

RETAINING WALL 4
FILE NO. - 704128

PLEASE VERIFY ALL CHANGE IN HEIGHT DISTANCES (TYP)

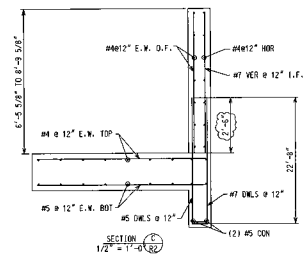
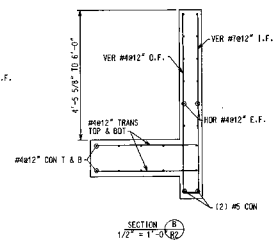
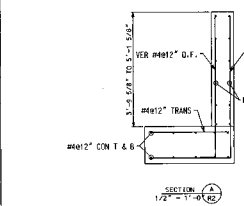


ELEVATION RETAINING WALL 3
1/2" = 1'-0"

LABEL	NO	PL	QTY	PLAN LOCATION: RET WALL SIZE LENGTH BARMARK	PLACING NOTES
Cross Ref.: RW 9					
SECTION 1					
CON	2x	5	4	25-08	#12" T & B
TRANS			1	4-06	#12" TOP
HR	2	4	16-00		#12" E.F., LAP 2'-0" INTO WALL
HR	2	4	16-00		#12" E.F., LAP 2'-0" INTO WALL
HR	2x	2	4	25-10	#12" E.F., LAP 2'-0" INTO WALL
HR	2	4	25-10		#12" E.F., LAP 2'-0" INTO WALL
HR	12	4	482		#12" O.F., 4B1
HR	12	4	482		#12" O.F., 4B2
HR	15	7	784		#12" O.F., 7B3
HR	15	7	784		#12" O.F., 7B4
Cross Ref.: RW 10					
SECTION 1					
CON	2	5	30-00		LAP 2'-6", LAP 2'-0" INTO WALL
TRANS	2x	36	5	10-10	#12" T & B
CON	2x	6	4	30-00	LAP 2'-0", LAP 2'-0" INTO WALL
HR	2	4	15-10		#12" E.F., LAP 2'-0" INTO WALL
HR	2	4	25-10		#12" E.F., LAP 2'-0" INTO WALL
HR	2x	6	4	30-00	#12" E.F., LAP 2'-0"
HR	15	4	485		#12" O.F., 4B5
HR	15	4	485		#12" O.F., 4B6
HR	10	4	402		#12" O.F., 4B7
HR	10	4	402		#12" O.F., 4B8
HR	11	7	789		#12" O.F., 7B9
HR	11	7	789		#12" O.F., 7B10

LABEL	NO	PL	QTY	PLAN LOCATION: RET WALL SIZE LENGTH BARMARK	PLACING NOTES
Cross Ref.: RW 11					
SECTION 1					
CON	4x	2	5	30-00	LAP 2'-6"
TRANS	115	2	5	3-03	#12" TOP
CON	3	115	5	7-06	#12" BOT
CON	9	4	30-00		#12" TOP, LAP 2'-0"
CON	4x	9	29-03		#12" BOT, LAP 2'-6"
CON	115	2	5	3-03	#12" O.F., 5B11
CON	115	2	7812		#12" I.F., 7B12
HR	2	4	16-00		#12" E.F., LAP 2'-0"
HR	2	4	26-00		#12" E.F., LAP 2'-0"
HR	6	4	30-00		#12" E.F., LAP 2'-0"
HR	6	4	30-00		#12" E.F., LAP 2'-0"
HR	6	4	30-00		#12" E.F., LAP 2'-0"
HR	6x	6	21-00		#12" E.F., LAP 2'-0" INTO WALL
HR	2x	6	4	31-07	#12" E.F., LAP 2'-0" INTO WALL
HR	2x	6	4	32-00	#12" E.F., LAP 2'-0"
HR	2	4	28-07		#12" O.F., 4B7
HR	4	4	16-11		#12" O.F., 4B8
HR	35	4	14-07		#12" O.F., 4B9
HR	21	4	8-03		#12" O.F., 4B10
HR	10	4	4-07		#12" O.F., 4B11
HR	48	4	18-11		#12" O.F., 4B12
HR	35	7	7-01		#12" I.F., 7B13
HR	21	7	8-03		#12" I.F., 7B14
HR	10	7	5-07		#12" I.F., 7B15

LABEL	NO	PL	QTY	PLAN LOCATION: RET WALL SIZE LENGTH BARMARK	PLACING NOTES
Cross Ref.: RW 12					
SECTION 1					
CON	2x	5	11-06		#12" T & B
TRANS	2x	19	4	4-06	#12" TOP
CON	2x	6	4	17-08	#12" BOT
HR	2	4	10-00		#12" E.F., LAP 2'-0" INTO WALL
HR	2	4	17-08		#12" E.F., LAP 2'-0" INTO WALL
HR	2x	6	4	19-10	#12" E.F., LAP 2'-0" INTO WALL
HR	11	4	4813		#12" O.F., 4B13
HR	8	4	4814		#12" O.F., 4B14
HR	11	7	7815		#12" O.F., 7B15
HR	11	7	7816		#12" O.F., 7B16
Cross Ref.: RW 13					
SECTION 1					
CON	2x	5	4	11-06	#12" T & B
TRANS	2x	33	4	4-06	#12" TOP
CON	2	4	10-00		#12" E.F., LAP 2'-0" INTO WALL
HR	2	4	11-08		#12" E.F., LAP 2'-0" INTO WALL
HR	2	4	17-08		#12" E.F., LAP 2'-0" INTO WALL
HR	20	4	8817		#12" O.F., 4B17
HR	13	7	7818		#12" O.F., 7B18
HR	20	7	7819		#12" O.F., 7B19
HR	13	7	784		#12" I.F., 7B20



SIZE	RP	BAR	MARK	V	NO	TOP	C	A	B	C	D	BENDING DIMENSIONS									
												E	F	G	H	J	K	L	M	N	O
7	783	17			3-07	6-042															
7	788	2	0-07	8-001																	
7	789	2	0-03	7-041																	
7	7910	2	0-07	6-081																	
7	7812	2	0-07	5-08																	
7	7815	2	0-07	7-042																	
7	7816	2	0-07	8-002																	
7	7818	11	3-01	5-003																	
5	5611	2	0-07	6-08																	
4	481	2	0-08	6-042																	
4	482	2	0-08	5-082																	
4	485	2	0-07	8-001																	
4	486	2	0-07	7-041																	
4	487	2	0-07	6-081																	
4	4813	2	0-07	7-042																	
4	4814	2	0-07	8-002																	
4	4817	2	0-08	5-002																	

ALL REINFORCING ASTM #6 60
LAP ALL REINFORCING 48D UNCL

THE CARTER-WATERS CORPORATION
KANSAS CITY, MISSOURI

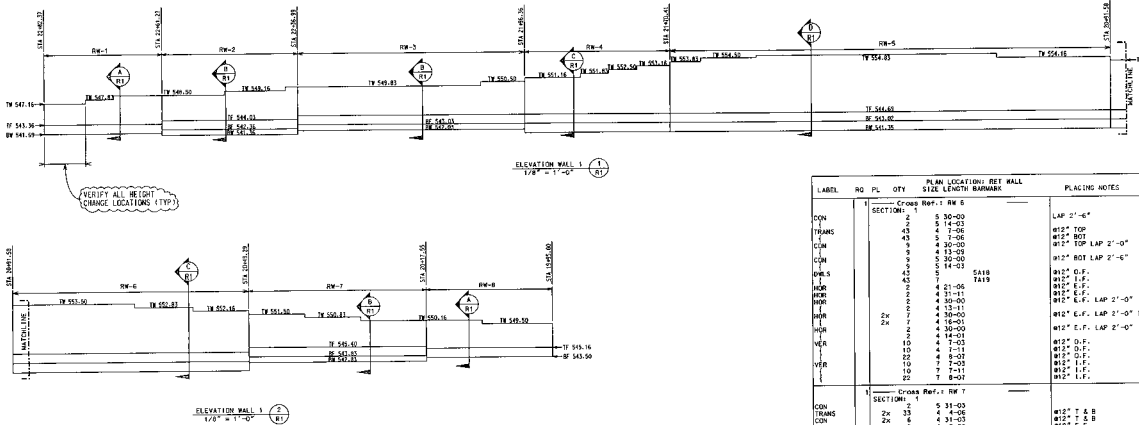
JOB - O'FALLON ROAD PROJECT
ARCH/ENGR. - ST. CHARLES HIGHWAY DEPT.
CONTRACTOR - B. MILTON ANDERSON CO. LLC

Scale: AS NOTED
Date: 4-28-04

RETAINING WALL 3

FILE NO. - 704128

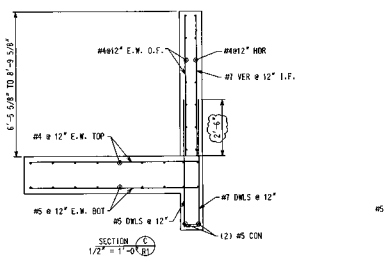
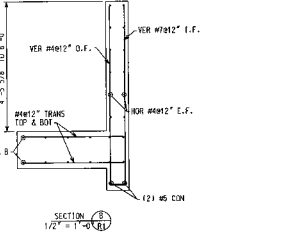
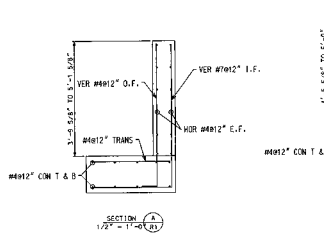
DESIGN NUMBER: R2



VERIFY ALL HEIGHT CHANGE LOCATIONS (TOP)

LINE	NO	TYPE	DATE	BY	DESCRIPTION	SCALE	REVISION
1	1	ADD	03/14/08	JTB	ADD	AS SHOWN	
1	2	REV	03/17/08	JTB	REV	AS SHOWN	
1	3	REV	03/17/08	JTB	REV	AS SHOWN	
1	4	REV	03/17/08	JTB	REV	AS SHOWN	
1	5	REV	03/17/08	JTB	REV	AS SHOWN	
1	6	REV	03/17/08	JTB	REV	AS SHOWN	
1	7	REV	03/17/08	JTB	REV	AS SHOWN	
1	8	REV	03/17/08	JTB	REV	AS SHOWN	
1	9	REV	03/17/08	JTB	REV	AS SHOWN	
1	10	REV	03/17/08	JTB	REV	AS SHOWN	
1	11	REV	03/17/08	JTB	REV	AS SHOWN	
1	12	REV	03/17/08	JTB	REV	AS SHOWN	
1	13	REV	03/17/08	JTB	REV	AS SHOWN	
1	14	REV	03/17/08	JTB	REV	AS SHOWN	
1	15	REV	03/17/08	JTB	REV	AS SHOWN	
1	16	REV	03/17/08	JTB	REV	AS SHOWN	
1	17	REV	03/17/08	JTB	REV	AS SHOWN	
1	18	REV	03/17/08	JTB	REV	AS SHOWN	
1	19	REV	03/17/08	JTB	REV	AS SHOWN	
1	20	REV	03/17/08	JTB	REV	AS SHOWN	
1	21	REV	03/17/08	JTB	REV	AS SHOWN	
1	22	REV	03/17/08	JTB	REV	AS SHOWN	
1	23	REV	03/17/08	JTB	REV	AS SHOWN	
1	24	REV	03/17/08	JTB	REV	AS SHOWN	
1	25	REV	03/17/08	JTB	REV	AS SHOWN	
1	26	REV	03/17/08	JTB	REV	AS SHOWN	
1	27	REV	03/17/08	JTB	REV	AS SHOWN	
1	28	REV	03/17/08	JTB	REV	AS SHOWN	
1	29	REV	03/17/08	JTB	REV	AS SHOWN	
1	30	REV	03/17/08	JTB	REV	AS SHOWN	

LABEL	NO	PL	QTY	PLAN LOCATION: RET WALL		PLACING NOTES
				SIZE	LENGTH	
Cross Ref.: RW 1						
CON	SECTION 1	2	4	4	24-11	#12" T & B LAP 2'-0" INTO FTG
TRANS	2x	22	4	10	06	#12" TOP LAP 2'-0" INTO WALL
CON	4x	4	4	22	11	#12" E.F.
VER	2	10	8	12	05	#12" D.F.
VER	1	10	7	12	05	#12" I.F.
VER	1	10	7	12	05	#12" I.F.
Cross Ref.: RW 2						
CON	SECTION 1	2	5	5	23-09	#12" T & B
TRANS	2x	24	4	23	09	#12" TOP LAP 2'-0" INTO WALL
CON	2x	2	4	14	11	#12" E.F.
VER	2	4	24	09	01	#12" D.F.
VER	1	11	4	24	09	#12" I.F.
VER	1	11	4	24	09	#12" I.F.
Cross Ref.: RW 3						
CON	SECTION 1	2	5	3	30-00	LAP 2'-4"
TRANS	2x	42	4	4	06	#12" T & B LAP 2'-0"
CON	2x	4	4	30	00	#12" E.F. LAP 2'-0" INTO WALL
VER	2	4	12	08	00	#12" D.F.
VER	1	33	4	14	05	#12" I.F.
VER	1	33	4	14	05	#12" I.F.
Cross Ref.: RW 4						
CON	SECTION 1	2	27	4	7-06	LAP 2'-4" INTO NEXT FTG
TRANS	2x	4	4	7-06	00	#12" TOP LAP 2'-0" INTO FTG
CON	2x	4	4	27-08	00	#12" E.F. LAP 2'-0" INTO WALL
VER	2	21	4	14-05	00	#12" D.F.
VER	1	33	4	14-05	00	#12" I.F.
VER	1	33	4	14-05	00	#12" I.F.
Cross Ref.: RW 5						
CON	SECTION 1	2	21	7	09	LAP 2'-4" INTO WALL
TRANS	2x	2	4	21-09	00	#12" TOP LAP 2'-0" INTO WALL
CON	2x	2	4	21-09	00	#12" E.F. LAP 2'-0" INTO WALL
VER	2	10	4	21-09	00	#12" D.F.
VER	1	10	4	21-09	00	#12" I.F.
VER	1	10	4	21-09	00	#12" I.F.
Cross Ref.: RW 6						
CON	SECTION 1	2	5	31-00	00	#12" T & B
TRANS	2x	13	4	31-03	00	#12" TOP LAP 2'-0"
CON	2x	6	4	31-03	00	#12" E.F.
VER	2	4	31-08	00	00	#12" D.F.
VER	1	10	4	31-08	00	#12" I.F.
VER	1	10	4	31-08	00	#12" I.F.
Cross Ref.: RW 7						
CON	SECTION 1	2	4	42-00	00	#12" T & B
TRANS	2x	4	4	42-00	00	#12" TOP LAP 2'-0"
CON	2x	2	4	42-00	00	#12" E.F.
VER	2	13	4	42-00	00	#12" D.F.
VER	1	13	4	42-00	00	#12" I.F.
VER	1	13	4	42-00	00	#12" I.F.
Cross Ref.: RW 8						
CON	SECTION 1	2	4	42-00	00	#12" T & B
TRANS	2x	4	4	42-00	00	#12" TOP LAP 2'-0"
CON	2x	2	4	42-00	00	#12" E.F.
VER	2	13	4	42-00	00	#12" D.F.
VER	1	13	4	42-00	00	#12" I.F.
VER	1	13	4	42-00	00	#12" I.F.



RECEIVED
MAY 21 2008
ST. CHARLES COUNTY
HIGHWAY DEPARTMENT

NOTE:
PLEASE VERIFY ALL HEIGHT CHANGE LOCATIONS.
ALL DIMENSIONS SHOWN HAVE BEEN SCALDED AND
ARE NOT ACCURATE.

ALL REINFORCING ASTM 60 OR
LAP ALL REINFORCING SEE 806

THE CARTER WATERS CORPORATION
KANSAS CITY, MISSOURI

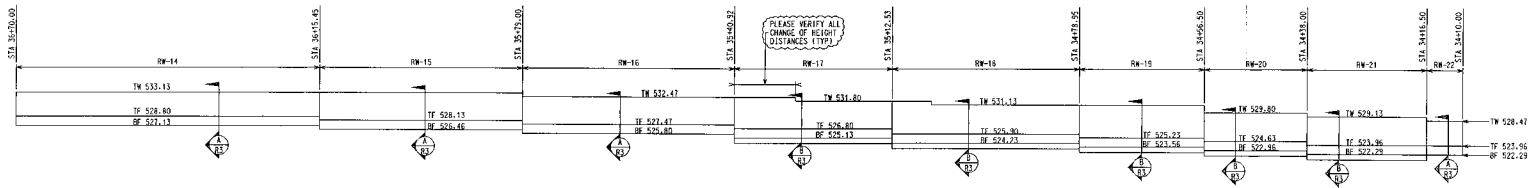
JOB - OF FALLON ROAD PROJECT
ARCH/ENGR - ST. CHARLES HIGHWAY DEPT.
CONTRACTOR - B. WILSON AMERSON CO. LLC

DATE: 4-28-08

RETAINING WALL 1

FILE NO. - 704128

DESIGNED: JTB
CHECKED: JTB

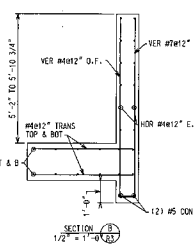
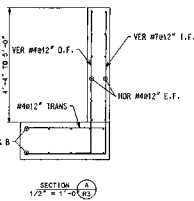


ELEVATION RETAINING WALL A
1/8" = 1'-0"

SIZE	EP	BAR MARK	NO	Y	HPD	YD	CD	A	B	C	D	REINFORCING DIMENSIONS										
												E	F	G	H	I	J	K	L	M	N	O
7	1	7022	2	1	1	1	1	3-07	5-063													
7	1	704	1	1	1	1	1	3-07	6-003													
7	1	707	2	1	1	1	1	6-01	7-013	6-003												
7	1	708	2	1	1	1	1	6-07	7-11													
7	1	7011	2	1	1	1	1	6-07	7-053													
7	1	7012	2	1	1	1	1	6-01	8-013													
7	1	7014	2	1	1	1	1	6-07	7-05													
7	1	7016	1	1	1	1	1	3-07	5-09													
6	1	401	2	1	1	1	1	6-08	5-063													
4	1	403	2	1	1	1	1	5-08	6-003													
4	1	405	2	1	1	1	1	6-07	7-003													
4	1	406	2	1	1	1	1	6-07	7-11													
4	1	409	2	1	1	1	1	6-07	7-053													
4	1	4010	2	1	1	1	1	6-07	8-013													
4	1	4013	2	1	1	1	1	6-07	7-05													
4	1	4015	2	1	1	1	1	6-08	5-09													



LABEL	RD	FL	QTY	PLAN LOCATION: SET WALL		PLACING NOTES	LABEL	RD	FL	QTY	PLAN LOCATION: RET WALL		PLACING NOTES
				SIZE	LENGTH BARMARK						SIZE	LENGTH BARMARK	
CON TRANS VER HR	1	2x	5	Cross Ref.: RW 14		#12" T & B LAP 2'-0"	CON TRANS VER HR	2x	5	Cross Ref.: RW 19		#12" T & B #12" T & B #12" TOP #12" D.F. #12" E.F. #12" E.F. LAP 2'-0" INTO WALL	
				SECTION: 1						SECTION: 1			
				4 30-00						4 24-11			
				4 3-06						4 4-06			
CON TRANS VER HR	1	2x	5	Cross Ref.: RW 15		#12" T & B LAP 2'-0"	CON TRANS VER HR	2x	6	Cross Ref.: RW 20		#12" T & B #12" T & B #12" TOP #12" D.F. #12" E.F. #12" E.F. LAP 2'-0" INTO WALL	
				SECTION: 1						SECTION: 1			
				4 30-00						4 18-00			
				4 8-01						4 4-06			
CON TRANS VER HR	1	2x	5	Cross Ref.: RW 16		#12" T & B LAP 2'-0"	CON TRANS VER HR	2x	23	Cross Ref.: RW 21		#12" T & B #12" T & B #12" TOP #12" D.F. #12" E.F. #12" E.F. LAP 2'-0" INTO WALL	
				SECTION: 1						SECTION: 1			
				4 30-00						4 21-00			
				4 3-06						4 23-00			
CON TRANS VER HR	1	2x	6	Cross Ref.: RW 17		#12" T & B #12" T & B #12" TOP #12" D.F. #12" E.F. #12" E.F. LAP 2'-0" INTO WALL	CON TRANS VER HR	2x	6	Cross Ref.: RW 22		#12" T & B #12" TOP #12" D.F. #12" E.F. #12" E.F.	
				SECTION: 1						SECTION: 1			
				4 21-11						4 6-00			
				4 4-06						4 3-06			
CON TRANS VER HR	1	2x	6	Cross Ref.: RW 18		#12" T & B #12" T & B #12" TOP #12" D.F. #12" E.F. #12" E.F. LAP 2'-0" INTO WALL	CON TRANS VER HR	2x	6	Cross Ref.: RW 19		#12" T & B #12" T & B #12" TOP #12" D.F. #12" E.F. #12" E.F. LAP 2'-0" INTO WALL	
				SECTION: 1						SECTION: 1			
				4 35-01						4 6-00			
				4 53-01						4 3-06			



ALL REINFORCING ASTM A630
LAP ALL REINFORCING 48D UNL

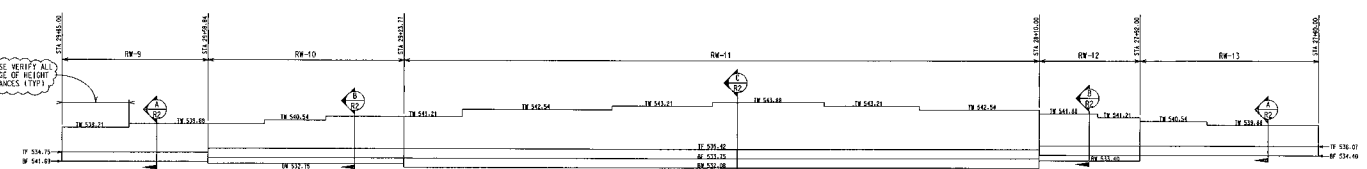
THE CARTER-WATERS CORPORATION
KANSAS CITY, MISSOURI

JOB - OF ALLON ROAD PROJECT
ARCHITECTOR - ST CHARLES HIGHWAY DEPT.
CONTRACTOR - B MILTON ANDERSON CO LLC

SCALE: AS NOTED
DATE: 4-28-04
DRAWN BY: TESS KELLY
CHECKED BY: [blank]

RETAINING WALL 4
FILE NO - 704128
REVISION: R3

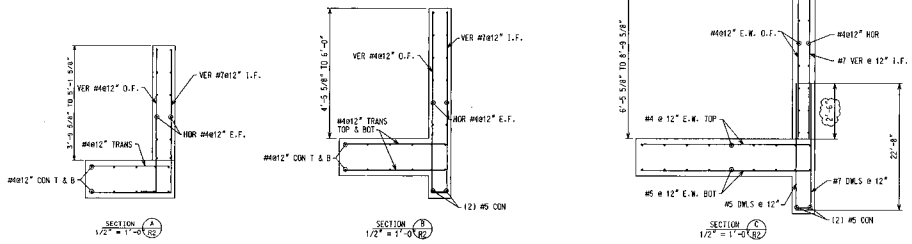
PLEASE VERIFY ALL
CHANGE OF HEIGHT
DISTANCES (TYP)



PLAN LOCATION: RET WALL		PLACING NOTES	
LABEL	RD PL QTY	SIZE LENGTH BAR MARK	
Cross Ref.: RW 9			
SECTION: 1			
CON	2x	2 4 25-08	#12" T & B
TRANS		4 4 3-06	#12" TOP
CON	2x	2 8 16-50	#12" E.F. LAP 2'-0" INTO WALL
HUR		4 28-00	#12" E.F. LAP 2'-0" INTO WALL
HUR	2x	2 8 25-10	#12" E.F. LAP 2'-0" INTO WALL
HUR		15 4 461	#12" O.F.
HUR		12 4 462	#12" O.F.
HUR		15 7 783	#12" I.F.
HUR		15 11 784	#12" I.F.
Cross Ref.: RW 10			
SECTION: 2			
CON	2x	2 5 30-00	LAP 2'-6", LAP 2'-6" INTO WALL
TRANS		4 4 9-10	#11" T & B
CON	2x	2 6 4 4-08	LAP 2'-0", LAP 2'-0" INTO WALL
CON	2x	2 6 4 30-00	#12" E.F. LAP 2'-0" INTO WALL
HUR		4 10-10	#12" E.F. LAP 2'-0" INTO WALL
HUR	2x	2 4 20-10	#12" E.F. LAP 2'-0" INTO WALL
HUR		4 30-00	#12" E.F. LAP 2'-0" INTO WALL
HUR	2x	2 6 4 8-11	#12" O.F.
HUR		11 4 495	#12" O.F.
HUR		11 4 496	#12" O.F.
HUR		4 637	#12" O.F.
HUR		15 7 788	#12" I.F.
HUR		11 11 789	#12" I.F.
HUR		10 7 790	#12" I.F.

ELEVATION RETAINING WALL 3
1/2" = 1'-0"

PLAN LOCATION: RET WALL		PLACING NOTES	
LABEL	RD PL QTY	SIZE LENGTH BAR MARK	
Cross Ref.: RW 11			
SECTION: 1			
CON	4x	2 5 30-00	LAP 2'-6"
TRANS		4 4 3-03	#12" TOP
CON	3x	2 4 1-06	#12" BOT
CON	2x	2 6 23-02	#12" TOP, LAP 2'-6"
CON	4x	3 5 30-00	#12" BOT LAP 2'-6"
DWS	2	115 5 5011	#12" O.F.
DWS	2	115 5 7912	#12" O.F.
HUR		2 4 18-08	#12" E.F. LAP 2'-0"
HUR		2 4 36-08	#12" E.F. LAP 2'-0"
HUR		2 26-08	#12" E.F. LAP 2'-0"
HUR		2 4 15-02	#12" E.F. LAP 2'-0"
HUR		2 4 36-07	#12" E.F. LAP 2'-0" INTO WALL
HUR	5x	2 4 21-02	#12" E.F. LAP 2'-0" INTO WALL
HUR	2x	2 6 4 31-07	#12" E.F. LAP 2'-0" INTO WALL
HUR		2 4 35-00	#12" E.F. LAP 2'-0" INTO WALL
HUR		2 4 25-07	#12" E.F. LAP 2'-0" INTO WALL
HUR		4 1-11	#12" O.F.
HUR		4 4 1-07	#12" O.F.
HUR		4 4 5-01	#12" O.F.
HUR		10 4 5-01	#12" O.F.
HUR		4 7-11	#12" I.F.
HUR		4 7-11	#12" I.F.
HUR		10 7 7-07	#12" I.F.
HUR		21 7 8-03	#12" I.F.
HUR		10 7 8-07	#12" I.F.
Cross Ref.: RW 12			
SECTION: 1			
CON	2x	2 5 17-06	#12" T & B
TRANS		4 4 3-06	#12" TOP
CON	2x	2 6 4 17-08	#12" E.F. LAP 2'-0" INTO WALL
HUR		4 17-08	#12" E.F. LAP 2'-0" INTO WALL
HUR	2x	2 6 4 19-10	#12" E.F. LAP 2'-0" INTO WALL
HUR		11 4 4813	#12" O.F.
HUR		11 4 4814	#12" O.F.
HUR		8 7 7915	#12" I.F.
HUR		11 7 7916	#12" I.F.
Cross Ref.: RW 13			
SECTION: 1			
CON	2x	2 5 4 31-06	#12" T & B
TRANS		4 4 3-06	#12" TOP
CON	2x	2 6 4 17-08	#12" E.F. LAP 2'-0" INTO WALL
HUR		4 31-08	#12" E.F. LAP 2'-0" INTO WALL
HUR	2x	2 6 4 19-10	#12" E.F. LAP 2'-0" INTO WALL
HUR		11 4 4813	#12" O.F.
HUR		11 4 4814	#12" O.F.
HUR		10 7 7915	#12" I.F.
HUR		13 7 7916	#12" I.F.



SIZE	EP	BAR MARK	Y TYP	BAR CO	BENDING DIMENSIONS											①
					A	B	C	D	F/R	G	H	J	K	L		
7	183	1	1	1	3-07	5-042										
7	794	1	1	1	2-02	5-082										
7	788	2			0-07	6-001										
7	788	2			0-07	1-041										
7	788	2			0-07	6-081										
7	788	2			0-07	5-08										
7	7816	2			0-07	1-042										
7	7816	2			0-07	6-002										
7	7818	1			3-07	5-002										
8	9011	2			0-07	6-08										
4	481	2			0-08	6-002										
4	482	2			0-08	5-082										
4	483	2			0-07	6-001										
4	488	2			0-07	7-041										
4	487	2			0-07	6-081										
4	4813	2			0-07	7-002										
4	4814	2			0-07	6-002										
4	4817	2			0-08	5-002										

ALL REINFORCING ASTM GR 60
LAP ALL REINFORCING 48D UNDI

THE CARTER-WATERS CORPORATION
KANSAS CITY, MISSOURI

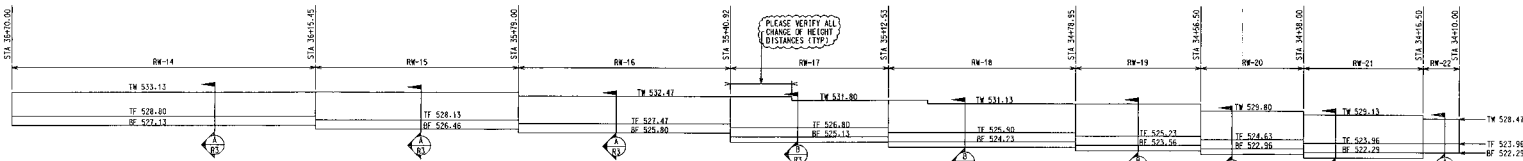
JOB - O'FALLON ROAD PROJECT
ARCH./ENGR. - ST. CHARLES HIGHWAY DEPT.
CONTRACTOR - B. MILTON ANDERSON CO LLC

DATE SHEET NOTED
REV. 4-28-04

RETAINING WALL 3

FILE NO. - 704128

DESIGNED BY: R2

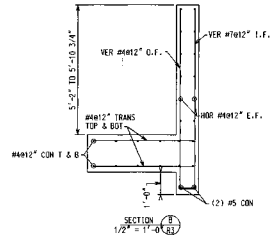
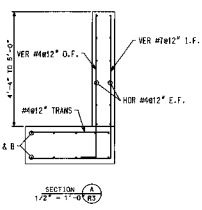


ELEVATION RETAINING WALL 4
1/8" = 1'-0"

SIZE	EP	BAR MARK	NO	Y	TP	CD	A	B	C	D	REINFORCING DIMENSIONS									
											P	F	G	H	J	K	L	O		
7	TC2		17					3-07	5-08											
7	TC4		17					3-07	4-09											
3	TC7		2					0-07	7-02											
3	TC8		2					0-07	7-11											
3	TC11		2					0-07	7-05											
3	TC12		2					0-07	7-07											
3	TC14		2					0-07	7-05											
3	TC16		17					3-07	5-09											
4	4C1		2					0-08	5-06											
4	4C3		2					0-08	4-03											
4	4C5		2					0-07	7-02											
4	4C8		2					0-07	7-11											
4	4C9		2					0-07	7-05											
4	4C10		2					0-07	7-07											
4	4C13		2					0-07	7-05											
4	4C15		2					0-08	4-09											



LABEL	NO	PL	QTY	PLAN LOCATION: RET WALL SIZE LENGTH DIMANOR	PLACING NOTES	LABEL	NO	PL	QTY	PLAN LOCATION: RET WALL SIZE LENGTH DIMANOR	PLACING NOTES										
CON TRANS VEN CON HOR	SECTION: 1	1	17	Cross Ref.: RW 14 4 30-00 4 30-00 56 4 41 56 4 41	#12* T & B LAP 2'-0"	CON TRANS CON VEN HOR	SECTION: 1	2	5	Cross Ref.: RW 19 4 21-11 2x 23 4 4-06 2x 23 5 21-11 2x 23 7 7C12	#12* T & B #12* T & B #12* O.F. #12* I.F. #12* E.F. LAP 2'-0" INTO WALL										
												SECTION: 1	2	5	Cross Ref.: RW 20 4 18-00 2x 20 4 4-06 2 5 18-00 19 7 7C14	#12* T & B #12* T & B #12* O.F. #12* I.F. #12* E.F. LAP 2'-0" INTO WALL					
																	SECTION: 1	2	5	Cross Ref.: RW 21 4 21-00 2x 23 4 4-06 2 5 21-00 22 7 7C14	#12* T & B #12* T & B #12* O.F. #12* I.F. #12* E.F. LAP 2'-0" INTO WALL
SECTION: 1	2	5	Cross Ref.: RW 18 4 33-00 2x 30 2 5 33-00 17 4 4C9 8 4 4C10 2 7 7C12 8 8 4-09 2x 6 4 35-00 2x 6 4 7-05	#12* T & B #12* T & B #12* O.F. #12* I.F. #12* E.F. #12* E.F. LAP 2'-0" INTO WALL LAP 2'-0"																	



ALL REINFORCING ASTM A606
LAP ALL REINFORCING 400 AND
CROSS-DIM. MINIMUM

THE CARTER-WATERS CORPORATION
CROSS-DIM. MINIMUM

JOB - OFALLON ROAD PROJECT
ARCH/ENGR - ST CHARLES HIGHWAY DEPT.
CONTRACTOR - B MILTON ANDERSON CO. LLC

ISSUES NOTED
DATE: 4-28-04
BY: [Signature]

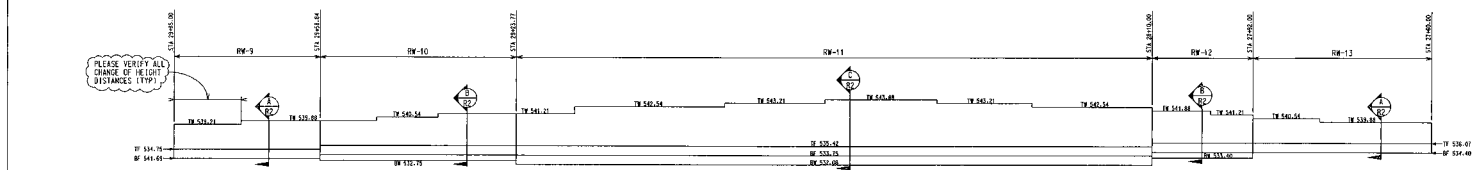
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RETAINING WALL 4

FILE NO. - 704128

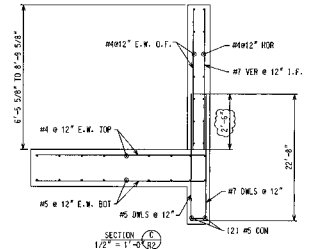
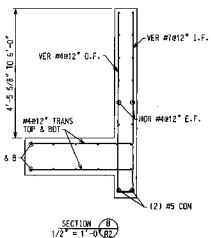
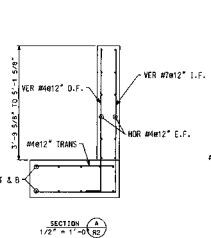
ISSUE NO. **R3**

PLEASE VERIFY ALL
RANGE OF REINFORCING
DISTANCES (TYP)



PLAN LOCATION: RET WALL		PLACING NOTES	
LABEL	RD PL QTY	SIZE LENGTH BAR/WHY	
Cross Ref.: RW 9			
SECTION: 1			
CON	4	4 25-08	#12" T & B
TRANS	2	4 3-06	#10" TOP
CON	2	4 15-00	#12" E.F., LAP 2'-0" INTO WALL
HOR	2x	4 28-00	#12" E.F., LAP 2'-0" INTO WALL
HOR	2	4 10-10	#12" O.F.
VER	15	4 481	#12" O.F.
VER	12	4 482	#12" O.F.
VER	15	7 793	#12" I.F.
VER	15	7 794	#12" I.F.
Cross Ref.: RW 10			
SECTION: 1			
CON	5	5 30-00	LAP 2'-6", LAP 2'-6" INTO WALL
TRANS	2x	4 4-06	#12" T & B
CON	2x	4 30-00	LAP 2'-0", LAP 2'-0" INTO WALL
HOR	2x	4 15-10	#12" E.F., LAP 2'-0" INTO WALL
HOR	2x	4 30-00	#12" E.F., LAP 2'-0" INTO WALL
HOR	2x	4 6-11	#12" O.F.
VER	16	4 485	#12" O.F.
VER	11	4 486	#12" O.F.
VER	10	4 691	#12" I.F.
VER	15	7 788	#12" I.F.
VER	11	7 789	#12" I.F.
VER	10	7 7910	#12" I.F.

ELEVATION RETAINING WALL 3
1/2" = 1'-0"



PLAN LOCATION: RET WALL		PLACING NOTES	
LABEL	RD PL QTY	SIZE LENGTH BAR/WHY	
Cross Ref.: RW 11			
SECTION: 1			
CON	4	4 30-00	LAP 2'-6"
TRANS	11	5 3-03	#12" TOP
CON	11	5 3-06	#12" BOT
CON	3x	4 30-00	#12" TOP, LAP 2'-0"
CON	4x	4 29-03	#12" TOP, LAP 2'-0"
CON	4x	4 30-00	#12" BOT, LAP 2'-6"
DWS	115	5 5811	#12" O.F.
DWS	115	7 7912	#12" I.F.
HOR	2x	4 19-08	#12" E.F.
HOR	2x	4 30-00	#12" E.F., LAP 2'-0"
HOR	2x	4 26-08	#12" E.F.
HOR	2x	4 15-00	#12" E.F., LAP 2'-0"
HOR	2x	4 30-00	#12" E.F., LAP 2'-0" INTO WALL
HOR	2x	4 21-02	#12" E.F., LAP 2'-0" INTO WALL
HOR	2x	4 30-00	#12" E.F., LAP 2'-0" INTO WALL
HOR	2x	4 31-07	#12" E.F., LAP 2'-0" INTO WALL
HOR	2	4 30-00	#12" E.F., LAP 2'-0"
VER	2	4 29-07	#12" O.F.
VER	35	4 1-11	#12" O.F.
VER	35	4 7-07	#12" O.F.
VER	19	4 1-03	#12" O.F.
VER	10	4 5-07	#12" O.F.
VER	35	7 1-01	#12" I.F.
VER	21	7 8-03	#12" I.F.
VER	20	7 8-03	#12" I.F.
VER	10	7 8-03	#12" I.F.

SIZE	EP	BAR MARK	V	TYP	CO	A	B	C	D	REINFORCING STATIONINGS																
										3-07	6-042															
2		784			11					3-07	6-042															
2		784			11					3-07	6-042															
1		788			2					0-07	8-001															
1		789			2					0-07	1-041															
2		7910			2					0-07	6-061															
1		7912			2					0-07	3-08															
1		7915			0					0-07	2-042															
1		7916			2					0-07	0-002															
7		7916			13					3-01	5-002															
5		5811			2					0-07	5-08															
4		481			2					0-08	4-042															
4		482			2					0-08	5-082															
4		485			2					0-07	8-001															
4		486			2					0-07	7-041															
4		487			2					0-07	8-081															
4		483			2					0-07	7-042															
4		484			2					0-07	8-002															
4		4817			2					0-08	5-002															

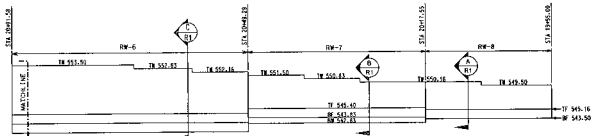
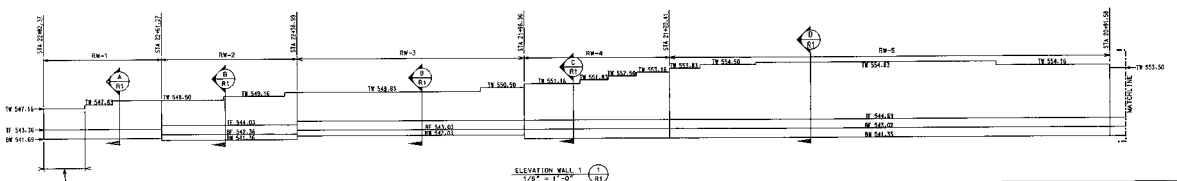
ALL REINFORCING ASTM OR 60
LAP ALL REINFORCING 480 INQ

THE CARTER-WATERS CORPORATION
KANSAS CITY, MISSOURI

JOB - OF FALLON ROAD PROJECT
ARCH/ENGR - ST. CHARLES HIGHWAY DEPT.
CONTRACTOR - B. MILTON ANDERSON CO. LLC
CHECK AS NOTED
DATE: 4-28-04

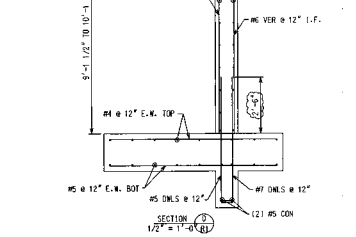
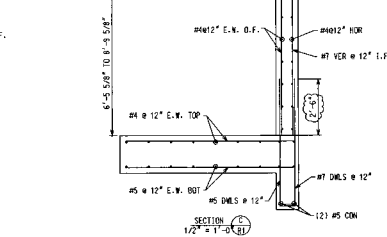
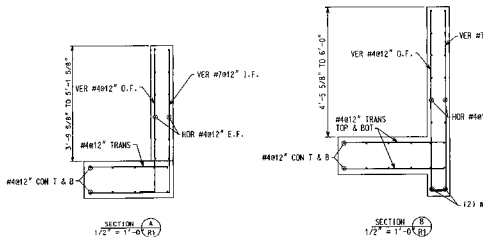
RETAINING WALL 3

FILE NO. 704128



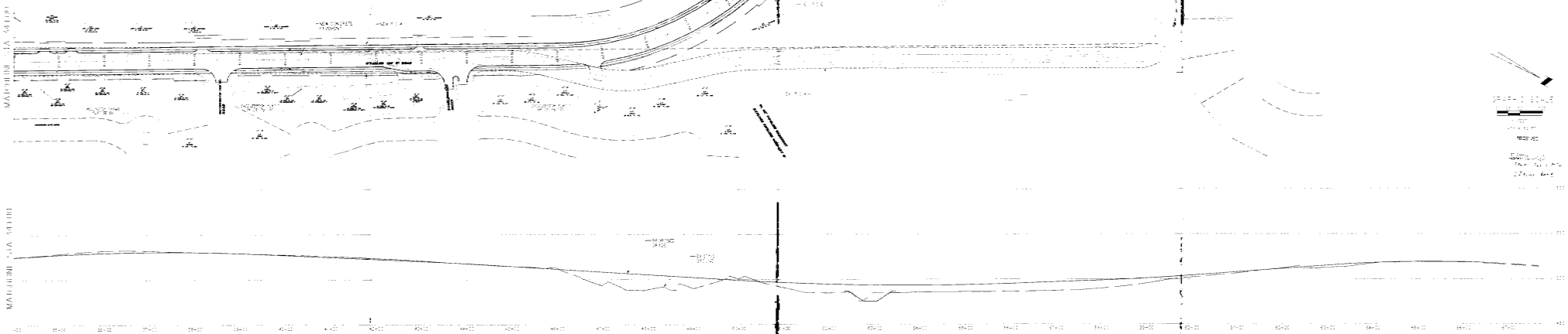
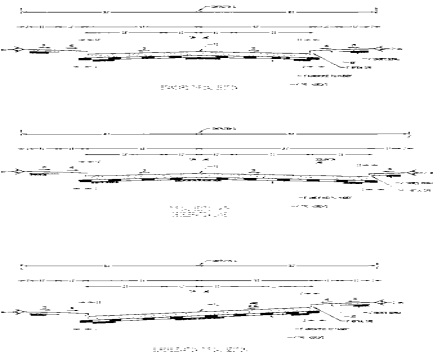
ELEVATION WALL 1
1/2" = 1'-0" (RT)

LINE	NO.	TYPE	ELEVATION	MATERIALS																	
				C	F	B	T	S	R	D	Q	E	G								
1	100	10	5.425																		
1	101	10	5.380																		
1	102	10	5.335																		
1	103	10	5.290																		
1	104	10	5.245																		
1	105	10	5.200																		
1	106	10	5.155																		
1	107	10	5.110																		
1	108	10	5.065																		
1	109	10	5.020																		
1	110	10	4.975																		
1	111	10	4.930																		
1	112	10	4.885																		
1	113	10	4.840																		
1	114	10	4.795																		
1	115	10	4.750																		
1	116	10	4.705																		
1	117	10	4.660																		
1	118	10	4.615																		
1	119	10	4.570																		
1	120	10	4.525																		
1	121	10	4.480																		
1	122	10	4.435																		
1	123	10	4.390																		
1	124	10	4.345																		
1	125	10	4.300																		
1	126	10	4.255																		
1	127	10	4.210																		
1	128	10	4.165																		
1	129	10	4.120																		
1	130	10	4.075																		
1	131	10	4.030																		
1	132	10	3.985																		
1	133	10	3.940																		
1	134	10	3.895																		
1	135	10	3.850																		
1	136	10	3.805																		
1	137	10	3.760																		
1	138	10	3.715																		
1	139	10	3.670																		
1	140	10	3.625																		
1	141	10	3.580																		
1	142	10	3.535																		
1	143	10	3.490																		
1	144	10	3.445																		
1	145	10	3.400																		
1	146	10	3.355																		
1	147	10	3.310																		
1	148	10	3.265																		
1	149	10	3.220																		
1	150	10	3.175																		
1	151	10	3.130																		
1	152	10	3.085																		
1	153	10	3.040																		
1	154	10	2.995																		
1	155	10	2.950																		
1	156	10	2.905																		
1	157	10	2.860																		
1	158	10	2.815																		
1	159	10	2.770																		
1	160	10	2.725																		
1	161	10	2.680																		
1	162	10	2.635																		
1	163	10	2.590																		
1	164	10	2.545																		
1	165	10	2.500																		
1	166	10	2.455																		
1	167	10	2.410																		
1	168	10	2.365																		
1	169	10	2.320																		
1	170	10	2.275																		
1	171	10	2.230																		
1	172	10	2.185																		
1	173	10	2.140																		
1	174	10	2.095																		
1	175	10	2.050																		
1	176	10	2.005																		
1	177	10	1.960																		
1	178	10	1.915																		
1	179	10	1.870																		
1	180	10	1.825																		



LABEL	NO.	PL.	QTY.	PLUM LOCATION	RET WALL	PLACING NOTES
--- Cross Ref.: RW 1						
SECTION 1						
CON	2x	25	4	42-11		#12" T & B LAP 2'-0" INTO FTG
CON	2x	25	4	42-08		#12" F. & B. LAP 2'-0" INTO WALL
CON	4x	10	4	41-08		#12" TOP
CON	10	3	4	40-11		#12" C.F.
CON	10	4	4	40-11		#12" D.F.
CON	10	4	4	40-11		#12" F.F.
CON	10	4	4	40-11		#12" E.F.
CON	10	4	4	40-11		#12" I.F.
CON	10	4	4	40-11		#12" T.F.
CON	10	4	4	40-11		#12" B.F.
CON	10	4	4	40-11		#12" S.F.
CON	10	4	4	40-11		#12" Q.F.
CON	10	4	4	40-11		#12" R.F.
CON	10	4	4	40-11		#12" G.F.
CON	10	4	4	40-11		#12" H.F.
CON	10	4	4	40-11		#12" J.F.
CON	10	4	4	40-11		#12" K.F.
CON	10	4	4	40-11		#12" L.F.
CON	10	4	4	40-11		#12" M.F.
CON	10	4	4	40-11		#12" N.F.
CON	10	4	4	40-11		#12" O.F.
CON	10	4	4	40-11		#12" P.F.
CON	10	4	4	40-11		#12" Q.F.
CON	10	4	4	40-11		#12" R.F.
CON	10	4	4	40-11		#12" S.F.
CON	10	4	4	40-11		#12" T.F.
CON	10	4	4	40-11		#12" U.F.
CON	10	4	4	40-11		#12" V.F.
CON	10	4	4	40-11		#12" W.F.
CON	10	4	4	40-11		#12" X.F.
CON	10	4	4	40-11		#12" Y.F.
CON	10	4	4	40-11		#12" Z.F.
--- Cross Ref.: RW 2						
SECTION 2						
CON	2x	2	5	23-09		#12" T & B
CON	2x	4	4	4-00		#12" F. & B.
CON	2x	4	4	4-00		#12" TOP
CON	2x	4	4	4-00		#12" C.F.
CON	2x	4	4	4-00		#12" D.F.
CON	2x	4	4	4-00		#12" F.F.
CON	2x	4	4	4-00		#12" E.F.
CON	2x	4	4	4-00		#12" I.F.
CON	2x	4	4	4-00		#12" T.F.
CON	2x	4	4	4-00		#12" B.F.
CON	2x	4	4	4-00		#12" S.F.
CON	2x	4	4	4-00		#12" Q.F.
CON	2x	4	4	4-00		#12" R.F.
CON	2x	4	4	4-00		#12" G.F.
CON	2x	4	4	4-00		#12" H.F.
CON	2x	4	4	4-00		#12" J.F.
CON	2x	4	4	4-00		#12" K.F.
CON	2x	4	4	4-00		#12" L.F.
CON	2x	4	4	4-00		#12" M.F.
CON	2x	4	4	4-00		#12" N.F.
CON	2x	4	4	4-00		#12" O.F.
CON	2x	4	4	4-00		#12" P.F.

O'FALLON ROAD ALIGNMENT STATION 34+00 TO STATION 67+66



O'FALLON ROAD ALIGNMENT STATION 0+00 TO STATION 34+00

