

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.U. ROUTE 204 (HIGHLAND ROAD)
LAKE STREET TO IL ROUTE 83 (BARRON BLVD)
ROADWAY REHABILITATION
VILLAGE SECTION 12-00060-00-WR
PROJECT NO. M-9003(949)
JOB NO. C-91-232-12
VILLAGE OF GRAYSLAKE
LAKE COUNTY

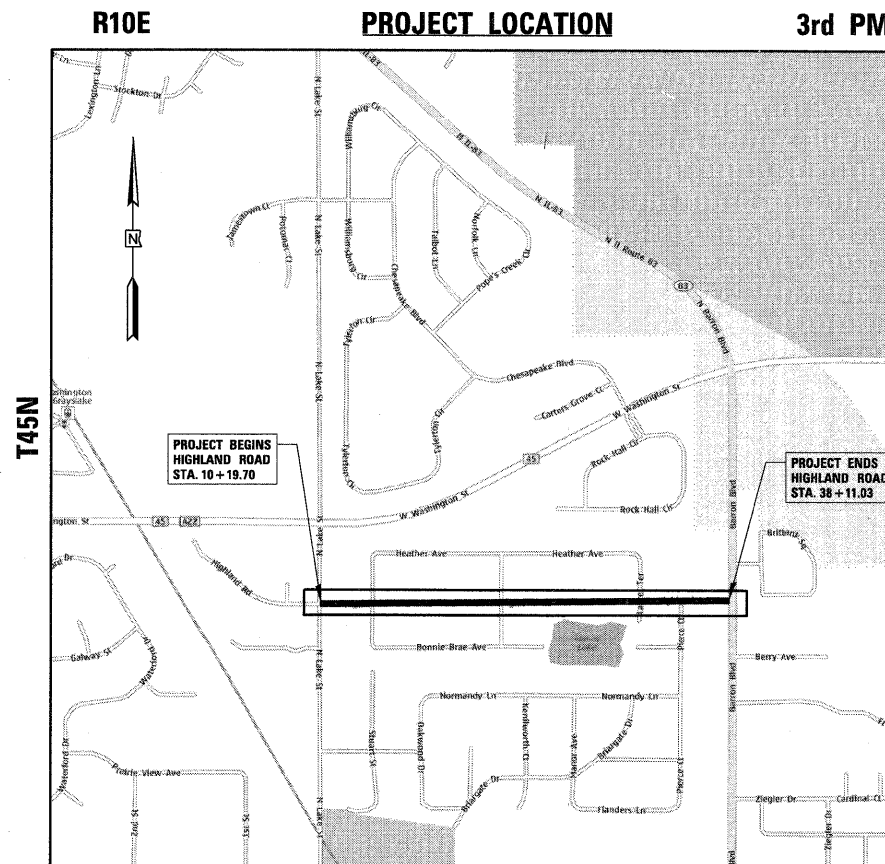
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	1
		ILLINOIS	CONTRACT NO. 63712	

INDEX OF SHEETS

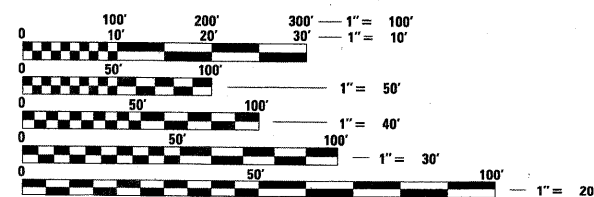
SHEET No.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
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5	TYPICAL SECTIONS
6	ALIGNMENT TIES AND BENCHMARKS
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49	TC-10 - TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
50	TC-13 - DISTRICT 1 TYPICAL PAVEMENT MARKINGS

STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424011	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602301-03	INLET TYPE A
602401-03	MANHOLE TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS



TRAFFIC DATA:
2009 ADT = 1105 (WEST) AND 2270 (EAST)
2040 ADT = 2,000-4,000 VEHICLES
POSTED SPEED LIMIT = 25 MPH
FUNCTIONAL CLASSIFICATION = COLLECTOR



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

SCALE 1" = APPROX 650 FT
GROSS LENGTH = 2792 FT. = 0.53 MILE
NET LENGTH = 2792 FT. = 0.53 MILE



March 23, 2012

STEPHEN N. SUGG
ILLINOIS REGISTRATION No. 062-044117
EXPIRATION DATE: 11/30/13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED March 23, 2012
William Fleming
DIRECTOR OF PUBLIC WORKS, VILLAGE OF GRAYSLAKE

PASSED APRIL 4, 2012
Cheryl C. Holt
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW APRIL 4, 2012
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

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OF THE STATE OF ILLINOIS

CHRISTOPHER B. BURKE ENGINEERING LTD.
8576 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(631) 823-0000

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406 SCHAUMBURG, IL

CONTRACT NO. 63712

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				70% Fed 30% Local ROADWAY 000.4 URBAN	
20101100	TREE TRUNK PROTECTION	EACH	10	10	
20101200	TREE ROOT PRUNING	EACH	40	40	
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	6	6	
20200100	EARTH EXCAVATION	CU YD	1885	1885	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1222	1222	
20800150	TRENCH BACKFILL	CU YD	1110	1110	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3615	3615	
21301060	EXPLORATION TRENCH 60" DEPTH	FOOT	50	50	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
25200100	SODDING	SQ YD	3615	3615	
25200200	SUPPLEMENTAL WATERING	UNIT	15	15	
28000305	TEMPORARY DITCH CHECKS	FOOT	130	130	
28000400	PERIMETER EROSION BARRIER	FOOT	4660	4660	
28000500	INLET AND PIPE PROTECTION	EACH	47	47	
28000510	INLET FILTERS	EACH	34	34	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2894	2894	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	4520	4520	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	4060	4060	
40600300	AGGREGATE (PRIME COAT)	TON	16	16	
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	454	451	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	127	127	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	649	649	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	729	729	
42001300	PROTECTIVE COAT	SQ YD	3750	3750	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	58	58	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	15510	15510	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	5980	5980	
42400800	DETECTABLE WARNINGS	SQ FT	200	200	
44000100	PAVEMENT REMOVAL	SQ YD	2740	2740	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1254	1254	
44000600	SIDEWALK REMOVAL	SQ FT	264	264	
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	125	125	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	293	293	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	146	146	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	125	125	
50105220	PIPE CULVERT REMOVAL	FOOT	1580	1580	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	659	659	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	117	117	
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	262	262	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	24	24	
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	595	595	
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	896	896	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				70% Fed 30% Local ROADWAY 000.4 URBAN	
55080020	STORM SEWERS, CLASS B, TYPE 1 6"	FOOT	100	100	
55080030	STORM SEWERS, CLASS B, TYPE 1 8"	FOOT	263	263	
* 56106400	ADJUSTING WATER MAIN 8"	FOOT	100	100	
* 56400100	FIRE HYDRANTS TO BE MOVED	EACH	1	1	
* 56500800	DOMESTIC WATER SERVICE BOXES	EACH	29	29	
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	11	11	
60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2	
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	40	40	
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	13	13	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3	
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	9	9	
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1	
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1	
60260100	INLETS TO BE ADJUSTED	EACH	2	2	
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	10	10	
60266600	VALVE BOXES TO BE ADJUSTED	EACH	4	4	
60500050	REMOVING CATCH BASINS	EACH	4	4	
60500060	REMOVING INLETS	EACH	1	1	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	5620	5620	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	LSUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	350	350	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4960	4960	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	730	730	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	100	100	
X0325225	BRICK PAVEMENT REMOVAL AND REPLACEMENT	SQ FT	190	190	
X0326337	DRAINAGE CONTROL STRUCTURE	EACH	2	2	
X0327353	STORMWATER TREATMENT SYSTEM LOCATION NO. 1	EACH	1	1	
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	52	52	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	5230	5230	
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	12	12	
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1	1	
Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	741	741	
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1	
Z0023000	FIELD TILE INSPECTION STRUCTURE	EACH	13	13	
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	300	300	
Z0056642	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 6"	FOOT	248	248	
Z0056644	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 8"	FOOT	310	310	
Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	585	585	
Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	117	117	
Z0056669	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 15"	FOOT	64	64	
* Z0076600	TRAINEES	HOUR	1000	1000	

Δ=0042
* SPECIALTY ITEMS

FILE NAME = N:\groylake\1102235\Civil\500_HIGHLAND-01	USER NAME = prozolan	DESIGNED - SNS	REVISED -
	PLOT SCALE = 20'	DRAWN - PWN	REVISED -
	PLOT DATE = 4/4/2012	CHECKED - MEK	REVISED -
		DATE - 09/02/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

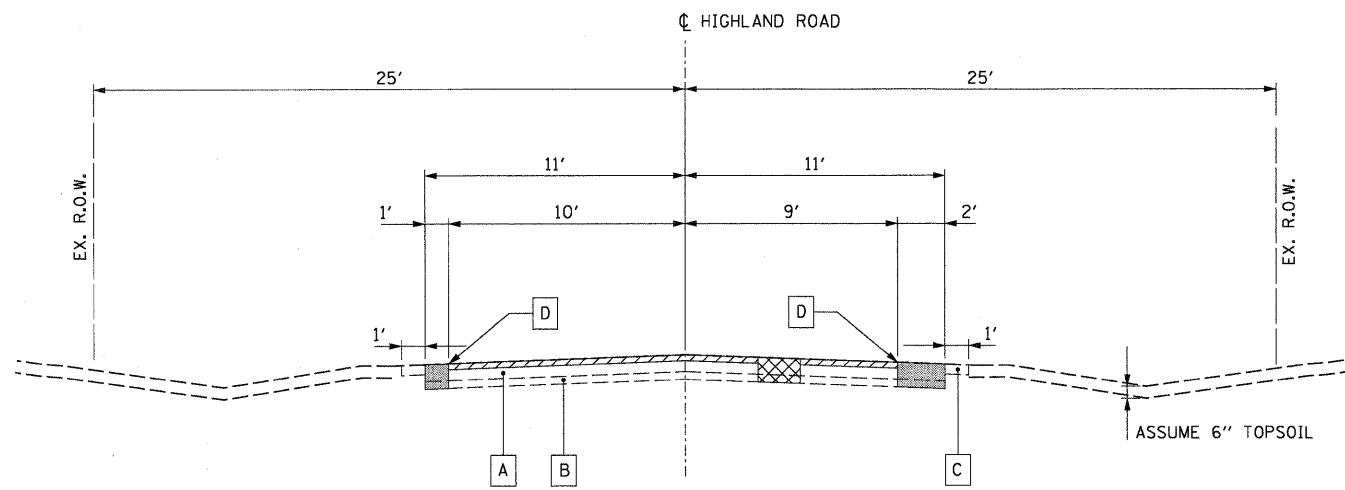
SUMMARY OF QUANTITIES
HIGHLAND ROAD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 204	SECTION 12-00060-00-WR	COUNTY LAKE	TOTAL SHEETS 50	SHEET NO. 3
CONTRACT NO. 63712				
ILLINOIS FED. AID PROJECT				

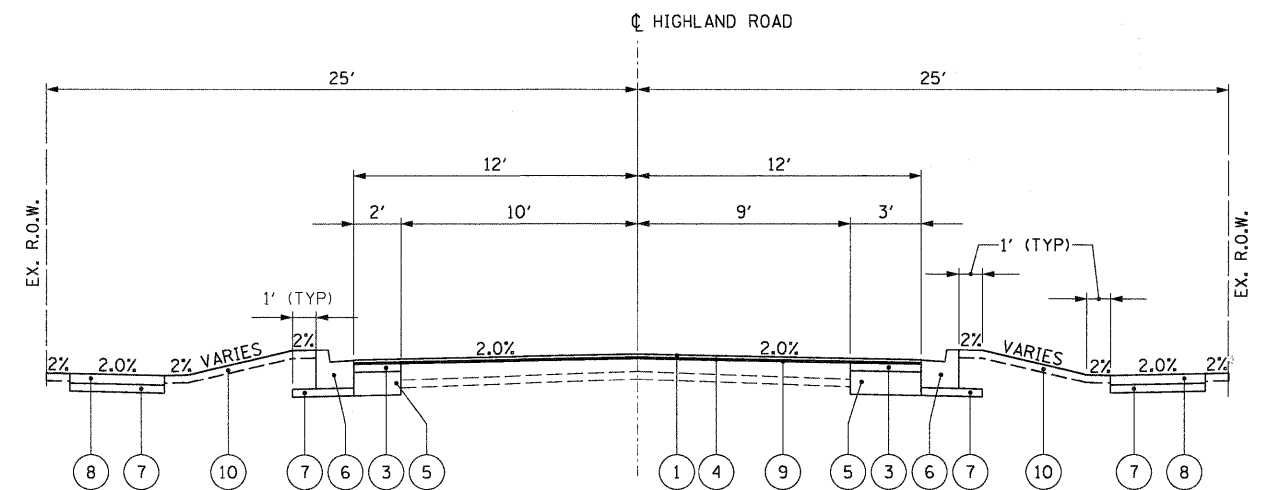
EARTH EXCAVATION & FURNISHED EXCAVATION STA. 10+34 TO STA. 24+39								
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME	MULT. FACTOR	EXPANDED FILL VOLUME	TOPSOIL STRIP AREA	TOPSOIL STRIP VOL.
	SQ. FT.	CU. YD.	SQ. FT.	CU. YD.		CU. YD.	SQ. FT.	CU. YD.
10+34.1	12.7	0	3.4	0.00	1.15	0.00	7.2	0.00
10+50.0	11.4	7.11	5.4	2.60	1.15	2.99	10.9	5.34
11+00.0	5.6	15.74	18.3	21.94	1.15	25.24	13.8	22.87
11+50.0	17.4	21.30	4.9	21.48	1.15	24.70	0	12.78
12+00.0	4.2	20.00	35.1	37.04	1.15	42.59	13.6	12.59
12+42.0	10	11.03	10.7	35.59	1.15	40.93	7	16.01
12+50.0	3.9	2.07	20.5	4.65	1.15	5.34	11.5	2.75
12+83.2	15.5	11.94	15	21.85	1.15	25.12	6.9	11.32
13+00.0	9.4	7.73	27.6	13.23	1.15	15.21	14.2	6.55
13+30.0	9.7	10.60	29.3	31.57	1.15	36.30	13.9	15.59
13+50.0	13.4	8.57	4.1	12.40	1.15	14.25	6.5	7.57
13+67.2	18.9	10.31	1.8	1.88	1.15	2.17	0	2.08
14+00.0	5.9	15.05	20.6	13.59	1.15	15.63	13.1	7.95
14+50.0	4.7	9.81	18.5	36.20	1.15	41.63	12.9	24.07
14+62.2	13	3.98	12	6.86	1.15	7.89	6.9	4.46
15+00.0	17.7	21.52	14	18.22	1.15	20.96	7.1	9.81
15+50.0	10.9	26.48	18	29.63	1.15	34.07	13.6	19.17
15+66.2	29	11.98	0	5.41	1.15	6.22	0	4.09
16+00.0	10.4	24.65	22.8	14.26	1.15	16.40	13.8	8.63
16+38.7	16.4	19.21	9	22.79	1.15	26.21	7.1	14.98
16+50.0	9.9	5.50	21.6	6.40	1.15	7.36	13.9	4.39
16+87.9	16.4	18.45	10.1	22.24	1.15	25.57	6.5	14.31
17+00.0	12.9	6.58	15.6	5.77	1.15	6.63	6.9	3.01
17+42.7	12.1	19.76	16.3	25.21	1.15	28.99	7.1	11.07
17+50.0	4.5	2.25	19.4	4.84	1.15	5.57	12	2.59
17+59.0	12	2.74	17	6.04	1.15	6.95	6.9	3.14
18+00.0	17.6	22.50	4.8	16.57	1.15	19.05	7.2	10.72
18+17.8	14.3	10.49	13.2	5.92	1.15	6.81	6.9	4.64
18+50.0	12.3	15.88	34	28.18	1.15	32.41	13.7	12.30
18+61.4	20.6	6.95	19.3	11.26	1.15	12.95	7.2	4.42
18+82.2	19.7	15.52	12.7	12.32	1.15	14.17	6.8	5.39
19+00.0	9.6	9.66	30.4	14.21	1.15	16.34	13.6	6.72
19+39.0	18.1	19.98	5	25.53	1.15	29.36	5.9	14.07
19+50.0	16.6	7.10	14.3	3.95	1.15	4.54	6.8	2.60
19+75.8	14.2	14.73	15.1	14.06	1.15	16.17	7.2	6.69
20+00.0	7	9.49	24.6	17.78	1.15	20.44	14.1	9.54
20+50.0	19.1	24.17	13.4	35.19	1.15	40.46	7.1	19.63
21+00.0	17	33.43	0.5	12.87	1.15	14.80	0	6.57
21+19.5	9.4	9.55	10.8	4.09	1.15	4.70	7.1	2.57
21+50.0	7.3	9.42	15.2	14.67	1.15	16.87	13.1	11.40
21+58.4	14.5	3.41	10.8	4.06	1.15	4.67	6.9	3.13
22+00.0	7.9	17.24	22.6	25.71	1.15	29.56	13.7	15.85
22+50.0	13.8	20.09	2	22.78	1.15	26.19	0	12.69
22+57.8	17.3	4.52	1.7	0.54	1.15	0.62	0	0.00
23+00.0	18.5	27.95	10.9	9.84	1.15	11.31	7.1	5.54
23+50.0	11	27.31	23.8	32.13	1.15	36.95	14.1	19.63
24+00.0	11.3	20.65	22.9	43.24	1.15	49.73	14	26.02
24+39.1	22.2	24.23	2.4	18.30	1.15	21.04	5.1	13.81

EARTH EXCAVATION & FURNISHED EXCAVATION STA. 24+50 TO STA. 38+09								
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME	MULT. FACTOR	EXPANDED FILL VOLUME	TOPSOIL STRIP AREA	TOPSOIL STRIP VOL.
	SQ. FT.	CU. YD.	SQ. FT.	CU. YD.		CU. YD.	SQ. FT.	CU. YD.
24+50.0	17.6	8.07	6.6	1.82	1.15	2.10	5.9	2.23
24+75.0	25	19.72	23.6	13.98	1.15	16.08	13.9	9.17
25+00.0	28.4	24.72	17.5	19.03	1.15	21.88	13.9	12.87
25+36.3	50.8	53.28	0	11.77	1.15	13.54	0	9.35
25+50.0	33.3	21.29	15.6	3.95	1.15	4.54	13.8	3.49
26+00.0	36.3	64.44	15.4	28.70	1.15	33.01	13.9	25.65
26+25.1	45.4	38.04	0	7.17	1.15	8.24	0	6.47
26+50.0	37.6	38.21	7.2	3.31	1.15	3.81	7.1	3.27
26+75.0	24.6	28.80	22.4	13.70	1.15	15.76	13.9	9.72
27+00.0	10.4	16.20	21.8	20.46	1.15	23.53	13	12.45
27+21.7	24.9	14.18	0	8.76	1.15	10.07	0	5.22
27+50.0	15.6	21.23	9.1	4.77	1.15	5.49	7.2	3.77
28+00.0	8.4	22.22	18.6	25.65	1.15	29.50	12.4	18.15
28+09.7	17.2	4.60	11.7	5.45	1.15	6.27	7	3.49
28+50.0	8.7	19.32	20.4	23.95	1.15	27.54	13.9	15.59
29+00.0	24.9	31.11	0	18.89	1.15	21.72	0	12.87
29+22.2	23	19.67	0	0.00	1.15	0.00	0	0.00
29+50.0	9.1	16.54	11.9	6.13	1.15	7.05	13.9	7.16
30+00.0	11	18.61	9.4	19.72	1.15	22.68	14	25.83
30+18.3	18	9.82	12.3	7.35	1.15	8.45	6.9	7.08
30+50.0	8.7	15.68	20.9	19.50	1.15	22.42	13.8	12.16
30+82.1	14.2	13.62	13.5	20.46	1.15	23.53	6.8	12.25
31+00.0	4.8	6.29	23.4	12.22	1.15	14.05	13.8	6.82
31+50.0	7.4	11.30	14.6	35.19	1.15	40.46	13.7	25.46
31+74.4	9.9	7.81	14	12.91	1.15	14.84	13.4	12.23
32+00.0	19.7	14.05	1.4	7.31	1.15	8.41	0	6.36
32+07.7	20.6	5.75	1.6	0.43	1.15	0.49	0	0.00
32+40.7	18	23.60	12.8	8.81	1.15	10.13	7.4	4.52
32+50.0	10.9	4.96	18	5.29	1.15	6.08	13.1	3.52
32+75.0	24.4	16.34	19.5	17.36	1.15	19.97	14	12.55
33+00.0	28.3	24.40	19.5	18.06	1.15	20.76	12.7	12.36
33+16.3	46.3	22.55	0	5.89	1.15	6.78	0	3.84
33+50.0	28.6	46.72	23.3	14.53	1.15	16.71	13.8	8.61
34+00.0	38	61.67	12.9	33.52	1.15	38.55	7	19.26
34+33.6	50.2	54.93	0	8.03	1.15	9.24	0	4.36
34+50.0	35.1	25.86	16.7	5.06	1.15	5.82	13.8	4.18
35+00.0	54.2	82.69	2.7	17.96	1.15	20.66	6.8	19.07
35+14.5	50	27.94	4.7	1.98	1.15	2.28	4.8	3.11
35+50.0	27.8	51.18	14.5	12.63	1.15	14.52	14	12.37
36+00.0	30.8	54.26	9.7	22.41	1.15	25.77	7.1	19.54
36+23.7	31.8	27.52	8.8	8.13	1.15	9.35	7	6.20
36+50.0	24	27.14	15.8	11.96	1.15	13.76	14	10.21
36+75.0	9.5	15.51	19.8	16.48	1.15	18.95	13.9	12.92
37+00.0	18.5	12.96	8.1	12.92	1.15	14.85	6.9	9.63
37+40.2	20.3	28.85	5.3	9.96	1.15	11.46	4.1	8.18
37+50.0	20.7	7.48	5.2	1.92	1.15	2.20	4.1	1.50
38+00.0	10.6	28.98	9.5	13.61	1.15	15.65	9.4	12.50
38+09.8	10	3.72	6.8	2.94	1.15	3.38	8.6	3.25
TOTAL	1882.45		TOTAL	1396.90	TOTAL	1606.44	TOTAL	921.83



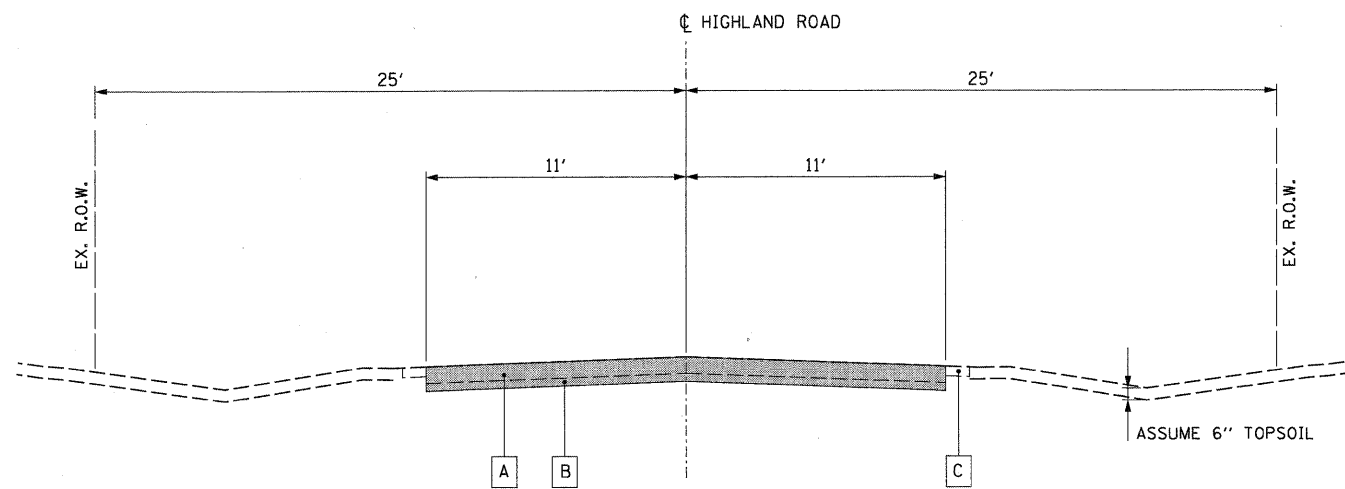
EXISTING

STA. 10+20 TO STA 24+75
 STA. 26+75 TO STA 32+75
 STA. 36+50 TO STA 38+11



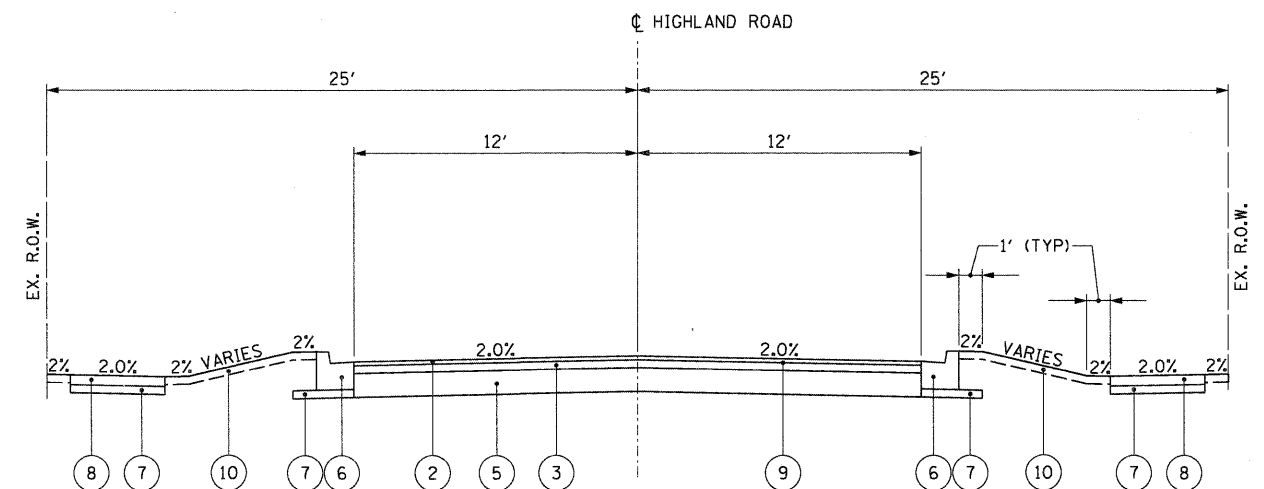
PROPOSED

STA. 10+20 TO STA 24+75
 STA. 26+75 TO STA 32+75
 STA. 36+50 TO STA 38+11



EXISTING

STA 24+75 TO STA 26+75
 STA 32+75 TO STA 36+50



PROPOSED

STA 24+75 TO STA 26+75
 STA 32+75 TO STA 36+50

LEGEND

- A EXISTING HMA PAVEMENT, 7"-10"
- B EXISTING AGGREGATE SUB-BASE
- C EXISTING AGGREGATE SHOULDER, VARIABLE DEPTH
- D FULL DEPTH SAW CUT (INCLUDED IN THE COST OF PAVEMENT REMOVAL)
- Hot-Mix Asphalt Surface Removal, Variable Depth (4401198) - DEPTH VARIES FROM 1/4" MIN. TO 3 1/2" MAX.
- PAVEMENT REMOVAL (44000100)
- CLASS D PATCH, 10"
- 1 HOT-MIX ASPHALT SURFACE COURSE, MIX D N50; 1 1/2" (40603335)
- 2 HOT-MIX ASPHALT SURFACE COURSE, MIX D N50; 2" (40603335)
- 3 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 4" (40603080)
- 4 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 3/4" NOMINAL (40600827)
- 5 AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112)
- 6 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 WITH 14" THICK GUTTER FLAG (60603800)
- 7 SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200)
- 8 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (42400200)
 PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH (42400300) - AT DRIVEWAYS
- 9 BITUMINOUS MATERIALS PRIME COAT (40300100)
 AGGREGATE PRIME COAT (4060300)
- 10 TOPSOIL FURNISH AND PLACE, 4" (21101615)
 SODDING (25200100)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT	
HMA SURFACE COURSE, MIX "D", N50, (IL-9.5); 2"	4% @ 50 Gyr.
HMA BINDER COURSE, IL-19.0, N50; 4" (2 LIFTS)	4% @ 50 Gyr.
PAVEMENT RESURFACING	
HMA SURFACE COURSE, MIX "D", N50, (IL-9.5); 1 1/2"	4% @ 50 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
PAVEMENT WIDENING	
HMA SURFACE COURSE, MIX "D", N50, (IL-9.5); 1 1/2"	4% @ 50 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
HMA BINDER COURSE, IL-19.0, N50; 4" (2 LIFTS)	4% @ 50 Gyr.
DRIVEWAYS	
HMA SURFACE COURSE, MIX "D", N50, (IL-9.5); 3" (2 LIFTS)	4% @ 50 Gyr.

- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
- FOR PERCENT RAP SEE SPECIAL PROVISIONS.

FILE NAME =	USER NAME = mvordar	DESIGNED - SNS	REVISED -
N:\projects\lake\110235\Civil\TYP_HIGHLAND-01.sht		DRAWN - PWN	REVISED -
	PLOT SCALE = 20'	CHECKED - MEK	REVISED -
	PLOT DATE = 4/4/2012	DATE - 09/02/2011	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HIGHLAND ROAD				204	12-00060-00-WR	LAKE	50	5
SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 63712				
				ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC GENERAL NOTES

- ONE LANE OF TRAFFIC WILL BE MAINTAINED AT ALL TIMES IN THE EASTBOUND DIRECTION.
- DRUM MINIMUM SPACING: 50' C-C TANGENT SECTION, 15' C-C AT CORNERS, OR AS SHOWN ON HIGHWAY STANDARDS.
- ALL SIGNAGE TO BE IN ACCORDANCE WITH MUTCD. SUGGESTED MAINTENANCE OF TRAFFIC SHOWN IS MINIMUM REQUIRED; CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL MEASURES AS DIRECTED BY RESIDENT ENGINEER. THIS WORK WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

SUGGESTED STAGING SEQUENCE

PRE-STAGE

MAINTENANCE OF TRAFFIC

- ESTABLISH DETOUR FOR EASTBOUND HIGHLAND ROAD IN ACCORDANCE WITH THE MUTCD, THE DETOUR PLAN, AND AS DIRECTED BY THE ENGINEER.

CONSTRUCTION

- PLACE EROSION CONTROL ITEMS PROJECT WIDE.

STAGE 1

MAINTENANCE OF TRAFFIC

- ESTABLISH THE EASTBOUND LANE IN ACCORDANCE WITH THE MUTCD, THE MOT PLAN, AND AS DIRECTED BY THE ENGINEER.

CONSTRUCTION OF SOUTH SIDE OF PAVEMENT

- REMOVE/MILL PAVEMENT.
- INSTALL MAINLINE STORM SEWER, LATERALS, AND DRAINAGE STRUCTURES.
- CONSTRUCT SUBGRADE AND PROPOSED PAVEMENT.
- HMA SURFACE COURSE WILL NOT BE PLACED AT THIS TIME.
- CONSTRUCT SIDEWALK
- PLACE TOPSOIL /SODDING/FERTILIZERS.

STAGE 2

MAINTENANCE OF TRAFFIC

- SHIFT THE EASTBOUND LANE ONTO THE PAVEMENT CONSTRUCTED IN STAGE 1 IN ACCORDANCE WITH THE MUTCD, THE MOT PLANS AND AS DIRECTED BY THE ENGINEER.

CONSTRUCTION OF NORTH SIDE OF PAVEMENT

- REMOVE/MILL PAVEMENT.
- INSTALL STORM SEWER LATERALS AND DRAINAGE STRUCTURES.
- CONSTRUCT SUBGRADE AND PROPOSED PAVEMENT.
- HMA SURFACE COURSE WILL NOT BE PLACED AT THIS TIME.
- PLACE TEMPORARY BITUMINOUS RAMPS.
- CONSTRUCT SIDEWALK
- PLACE TOPSOIL /SODDING/FERTILIZERS.

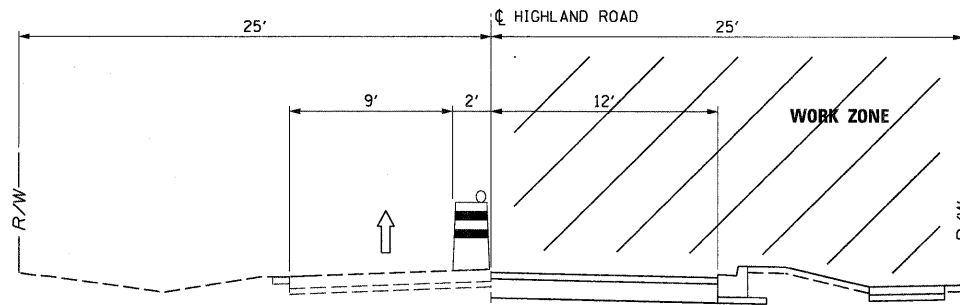
STAGE 3

MAINTENANCE OF TRAFFIC

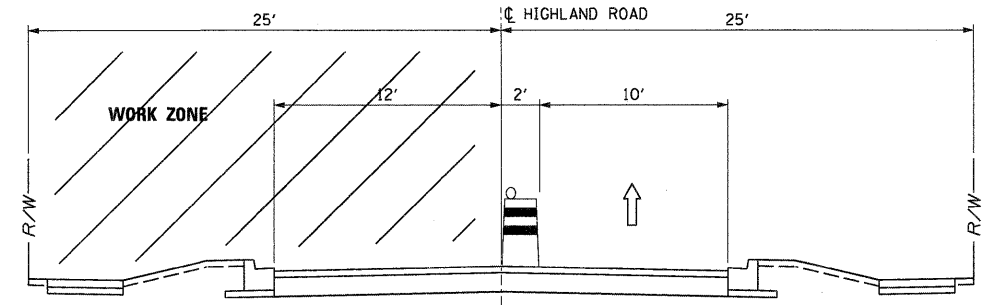
- MAINTAIN BOTH DIRECTIONS OF TRAFFIC IN ACCORDANCE WITH THE MUTCD, AND AS DIRECTED BY THE ENGINEER.
- CONSTRUCTION ACTIVITIES BELOW SHALL BE COMPLETED IN ACCORDANCE WITH IDOT STANDARD 701501

CONSTRUCTION (SURFACE COURSE)

- PLACE HMA SURFACE COURSE.
- PLACE FINAL PAVEMENT MARKINGS.
- REMOVE DETOUR ROUTE SIGNAGE.
- REMOVE TEMPORARY EROSION CONTROL ITEMS AS DIRECTED BY THE ENGINEER.

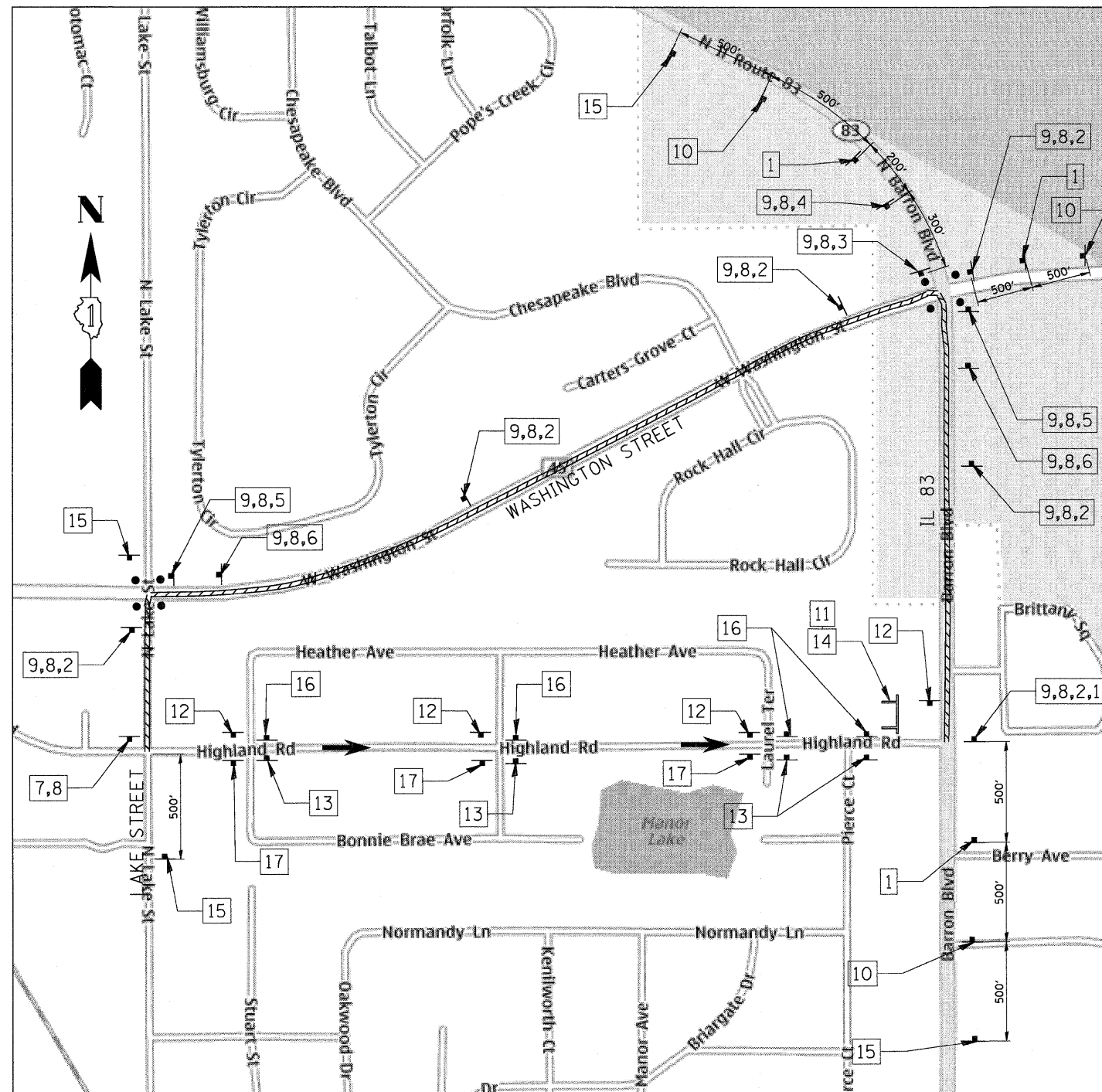


**MAINTENANCE OF TRAFFIC-STAGE 1
LOOKING EAST**



**MAINTENANCE OF TRAFFIC-STAGE 2
LOOKING EAST**

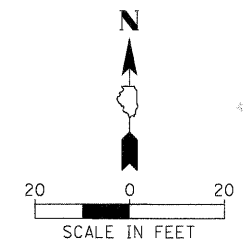
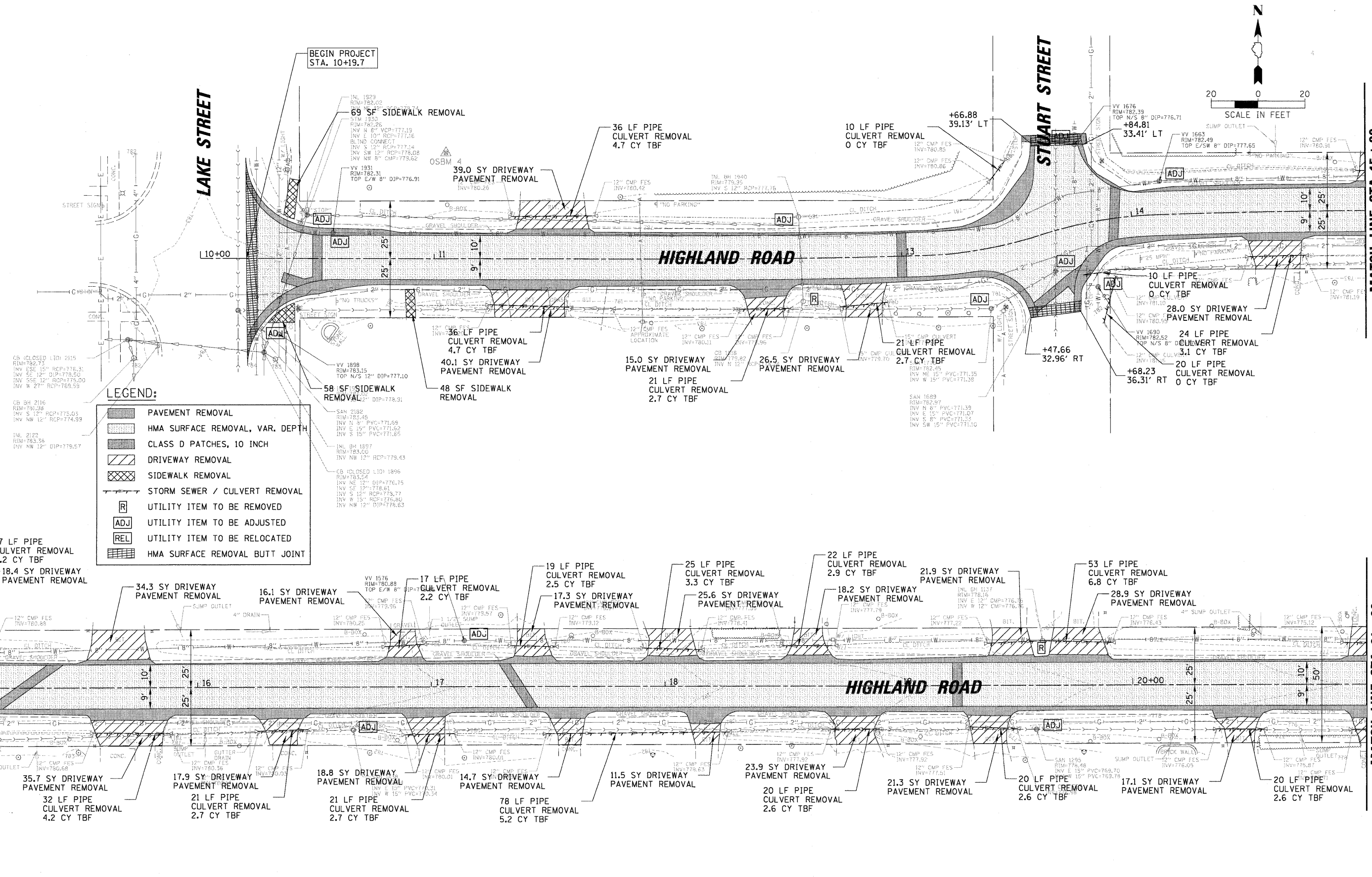
LEGEND	
	SIGNALIZED INTERSECTION
	DETOUR SIGNS, NUMBER DENOTES TYPE.
	TYPE III BARRICADE WITH AMBER FLASHING LIGHTS.
	DETOUR ROUTE
	DIRECTION OF TRAFFIC



MAINTENANCE OF TRAFFIC AND DETOUR SIGNAGE PLAN

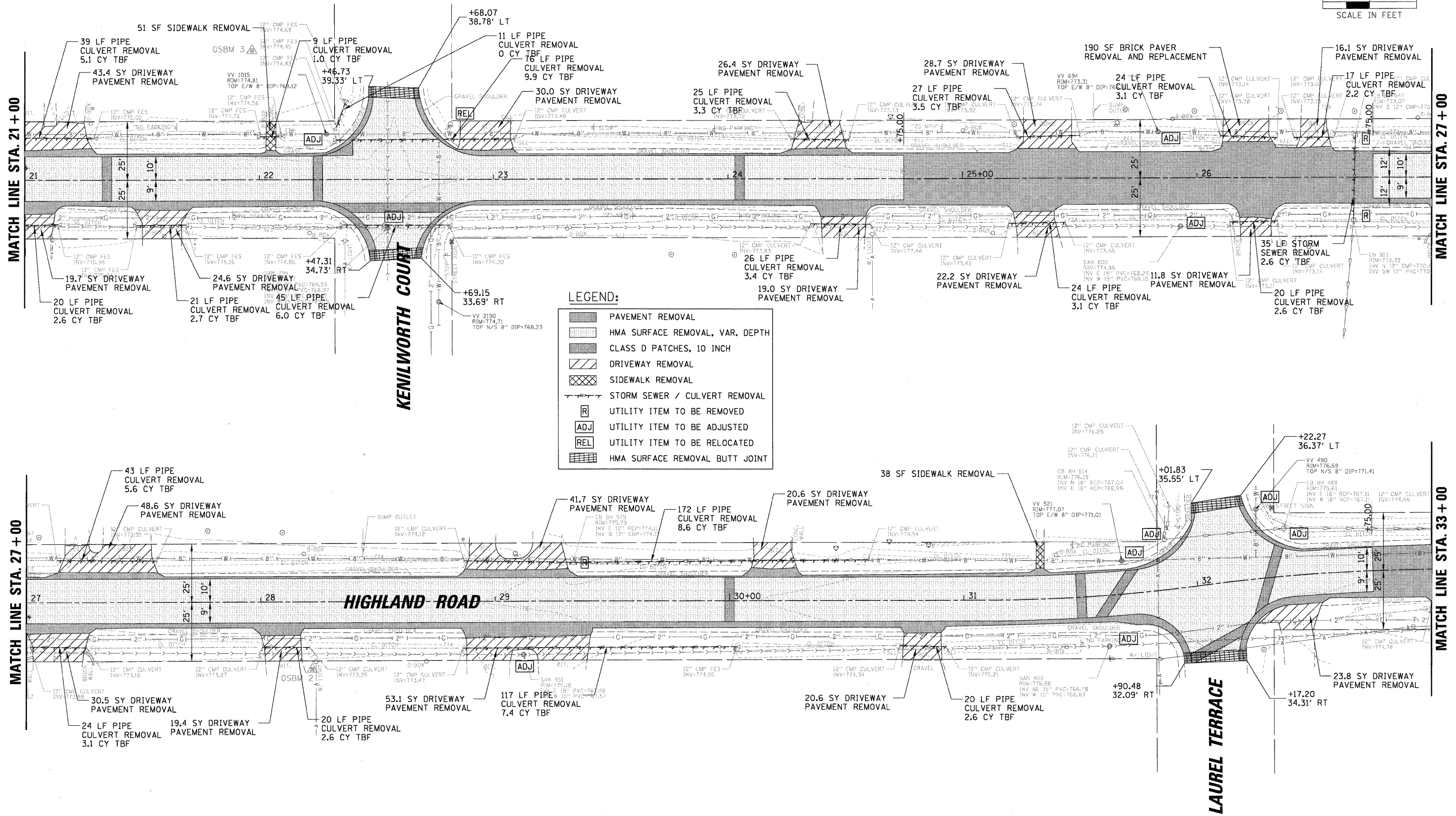
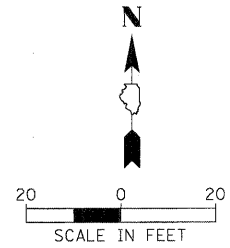
SCHEDULE OF SIGNS

SIGN NO.	SIGN TYPE	QUANTITY
1	W20-2 48" X 48"	1
2	M4-9 30" X 21"	5
3	M4-9 R 30" X 21"	1
4	M4-9 R 30" X 21"	1
5	M4-9 L 30" X 21"	2
6	M4-9 L 30" X 21"	2
7	M4-8a 24" X 18"	1
8	SPECIAL NO. 1	12
9	M3-4 24" X 12"	11
10	R11-4 60" X 30" (SPECIAL NO. 2)	2
11	R11-2 48" X 30" R5-1 R 30" X 30"	1
12	R3-1 30" X 30"	4
13	R3-2 30" X 30"	5
14	M4-10 R 48" X 18"	1
15	W20-1 48" X 48"	2
16	R6-1 R 36" X 12"	4
17	R6-1 L 36" X 12"	3



- LEGEND:**
- PAVEMENT REMOVAL
 - HMA SURFACE REMOVAL, VAR. DEPTH
 - CLASS D PATCHES, 10 INCH
 - DRIVEWAY REMOVAL
 - SIDEWALK REMOVAL
 - STORM SEWER / CULVERT REMOVAL
 - UTILITY ITEM TO BE REMOVED
 - UTILITY ITEM TO BE ADJUSTED
 - UTILITY ITEM TO BE RELOCATED
 - HMA SURFACE REMOVAL BUTT JOINT

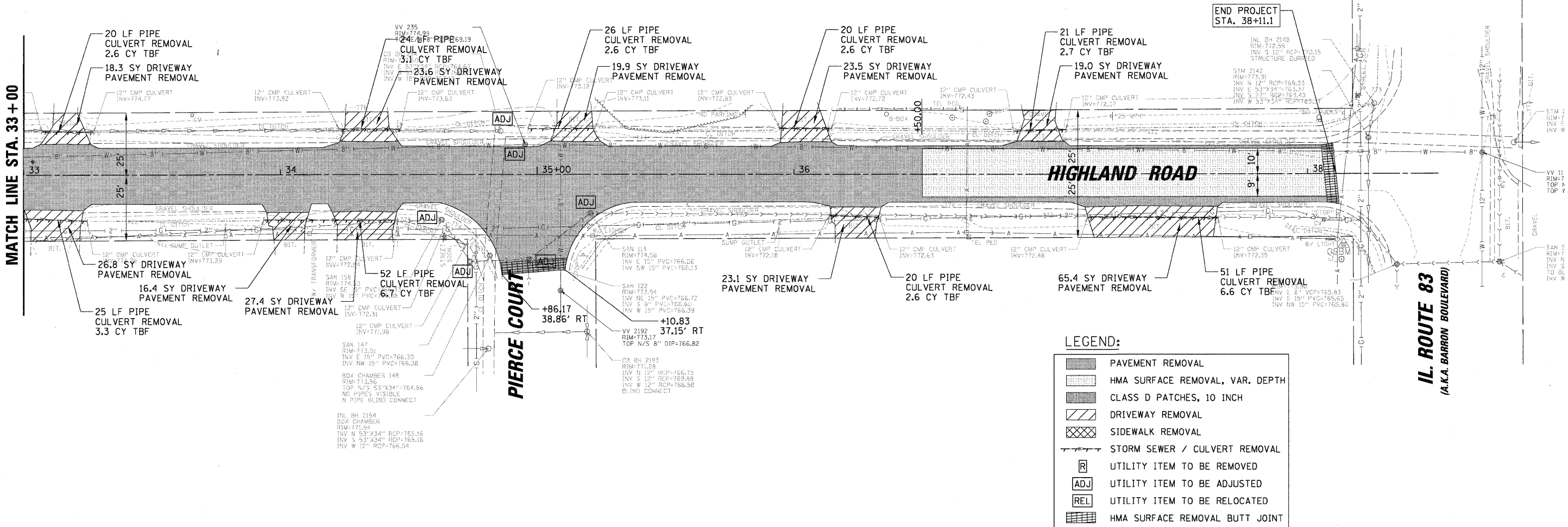
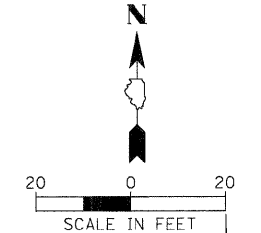
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PLOT SCALE = 20'	CHECKED - MEK	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
PLOT DATE = 4/4/2012	DATE = 09/02/2011	REVISED -										



LEGEND:

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, VAR. DEPTH
- CLASS D PATCHES, 10 INCH
- DRIVEWAY REMOVAL
- SIDEWALK REMOVAL
- STORM SEWER / CULVERT REMOVAL
- UTILITY ITEM TO BE REMOVED
- UTILITY ITEM TO BE ADJUSTED
- UTILITY ITEM TO BE RELOCATED
- HMA SURFACE REMOVAL BUTT JOINT

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		DATE - 09/02/2011	REVISED -		ILLINOIS FED. AID PROJECT							



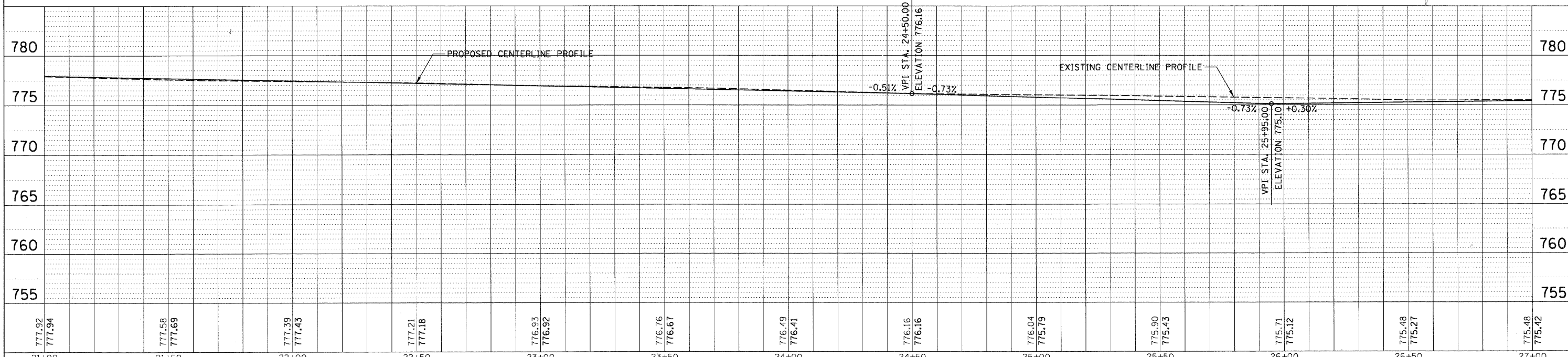
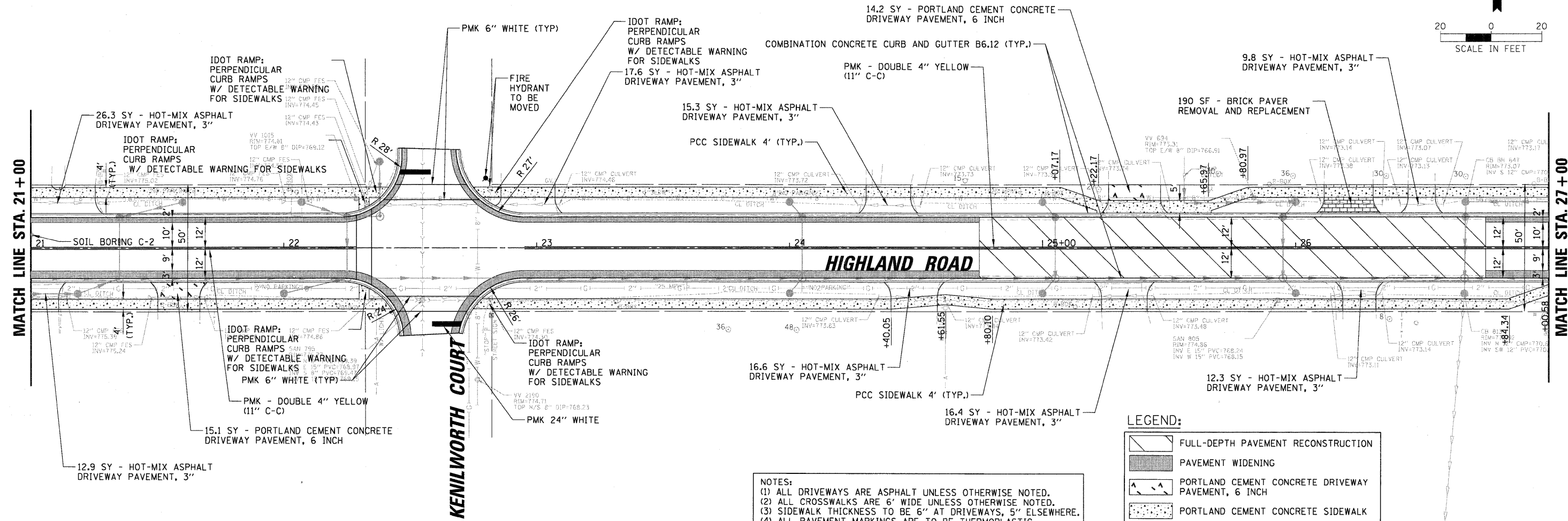
LEGEND:

	PAVEMENT REMOVAL
	HMA SURFACE REMOVAL, VAR. DEPTH
	CLASS D PATCHES, 10 INCH
	DRIVEWAY REMOVAL
	SIDEWALK REMOVAL
	STORM SEWER / CULVERT REMOVAL
	UTILITY ITEM TO BE REMOVED
	UTILITY ITEM TO BE ADJUSTED
	UTILITY ITEM TO BE RELOCATED
	HMA SURFACE REMOVAL BUTT JOINT

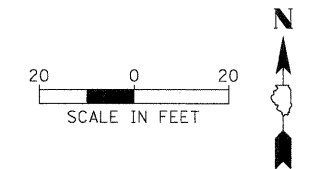
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PLOT DATE = 4/4/2012	DATE - 09/02/2011	REVISED -						ILLINOIS FED. AID PROJECT				

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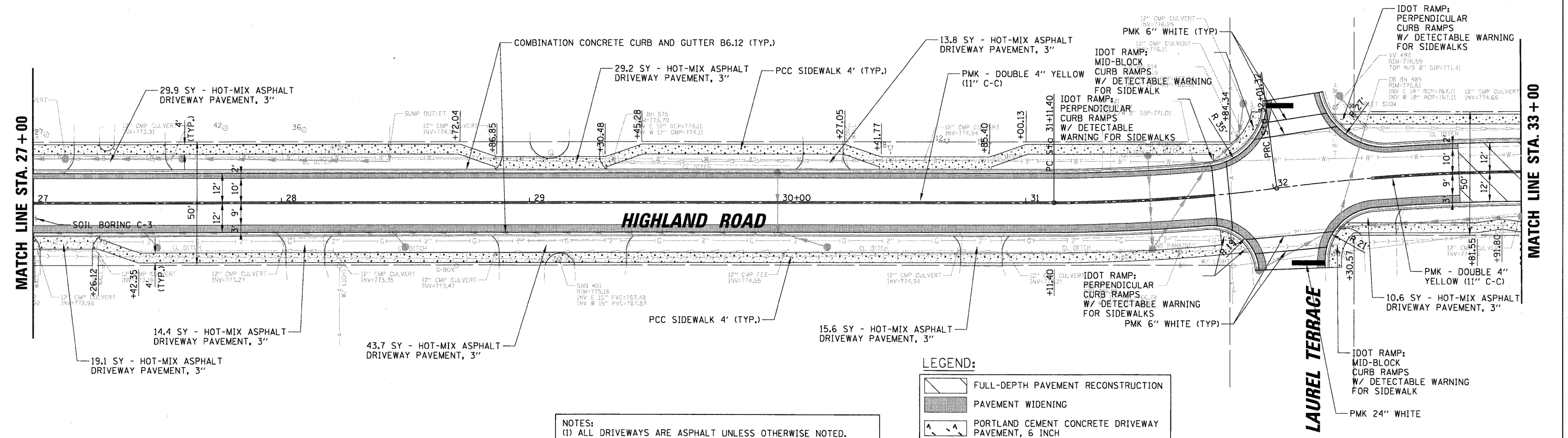
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PLOT SCALE = 20'	DATE = 09/02/2011	DRAWN - PWN	REVISED -		SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 63712					
PLOT DATE = 4/4/2012	DATE = 09/02/2011	CHECKED - MEK	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE = 09/02/2011	REVISED -										



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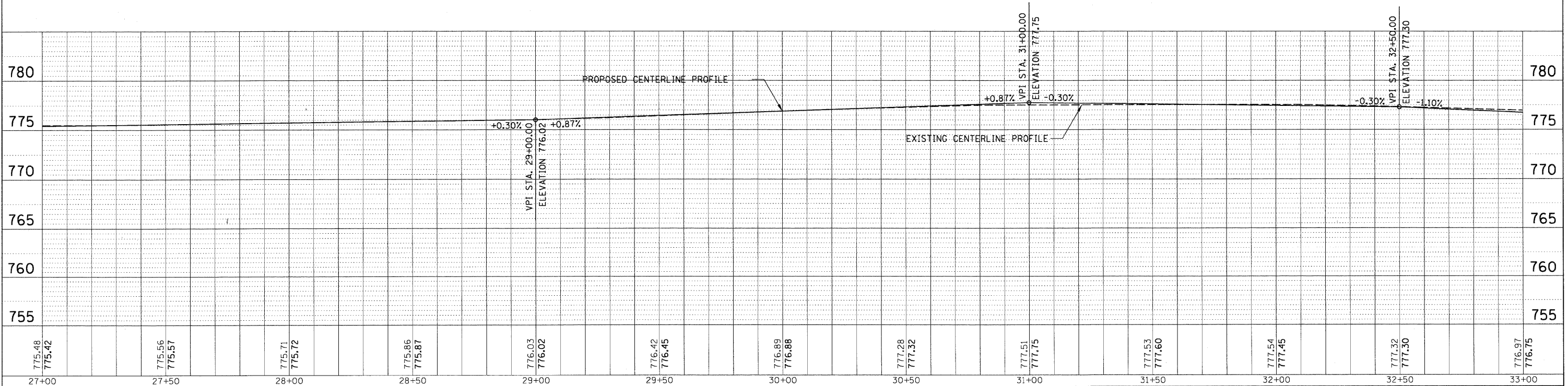


NOTES:
 (1) ALL DRIVEWAYS ARE ASPHALT UNLESS OTHERWISE NOTED.
 (2) ALL CROSSWALKS ARE 6' WIDE UNLESS OTHERWISE NOTED.
 (3) SIDEWALK THICKNESS TO BE 6" AT DRIVEWAYS, 5" ELSEWHERE.
 (4) ALL PAVEMENT MARKINGS ARE TO BE THERMOPLASTIC.

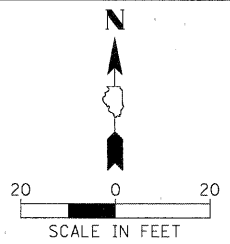
LEGEND:

	FULL-DEPTH PAVEMENT RECONSTRUCTION
	PAVEMENT WIDENING
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH
	PORTLAND CEMENT CONCRETE SIDEWALK
	BRICK DRIVEWAY

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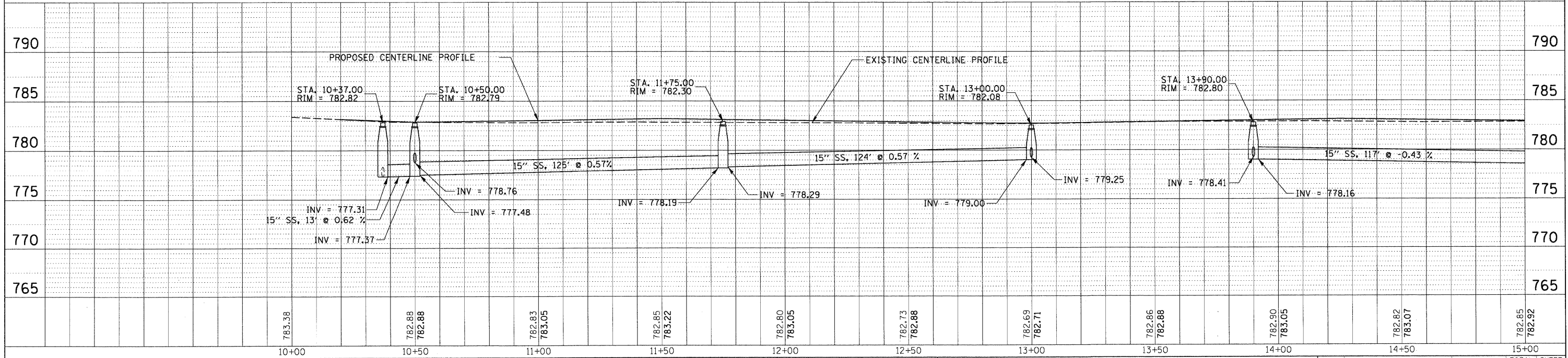
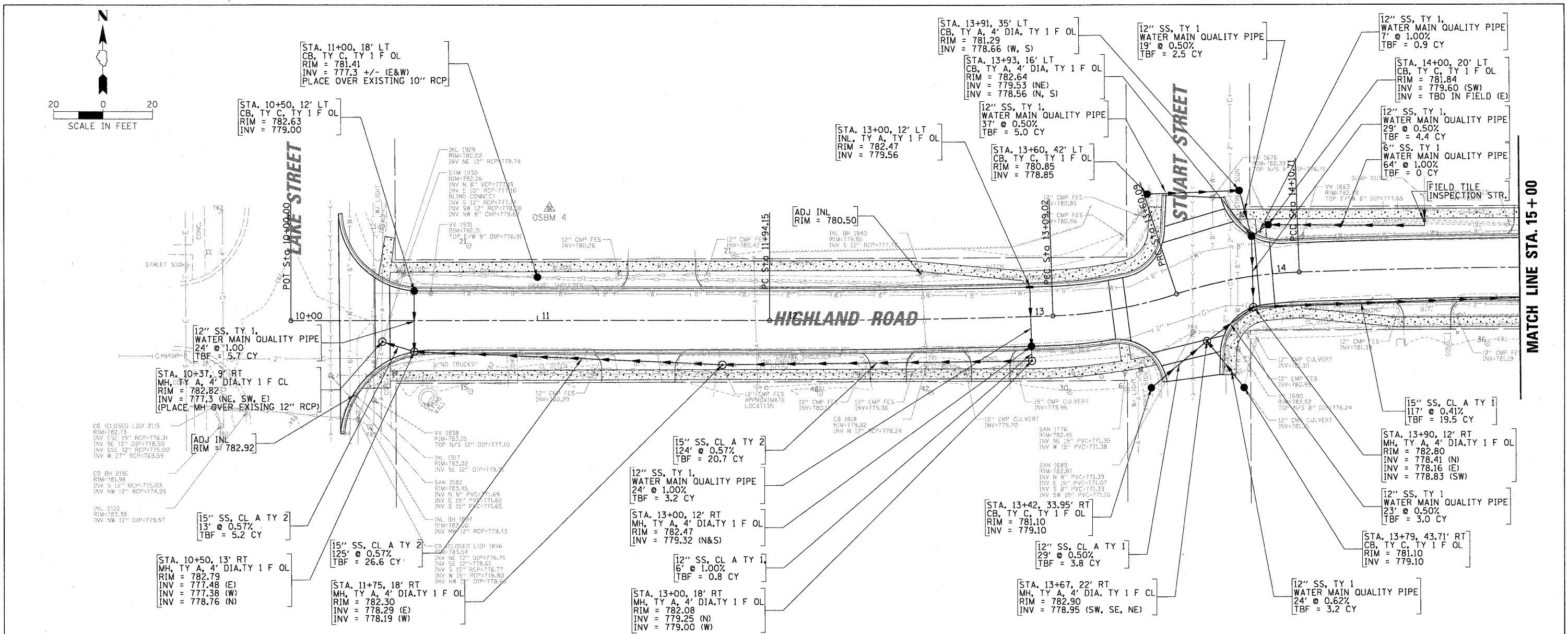


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		DRAWN - PWN	REVISED -						CONTRACT NO. 63712				
		CHECKED - MEK	REVISED -										
		DATE - 09/02/2011	REVISED -										
PLOT SCALE = 20'		DATE - 4/4/2012		SCALE: 1" = 20'		SHEET NO. OF SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT			



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PLAN	
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NOTE BOOK	
NO. OF WAY CHECKED	
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PROFILE	
SURVEYED	
GRADES CHECKED	
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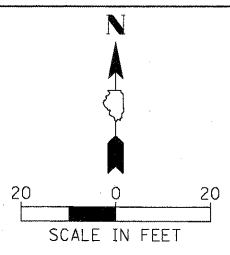
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PLOT DATE = 3/27/2012	DATE - 09/02/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN AND PROFILE
HIGHLAND ROAD**

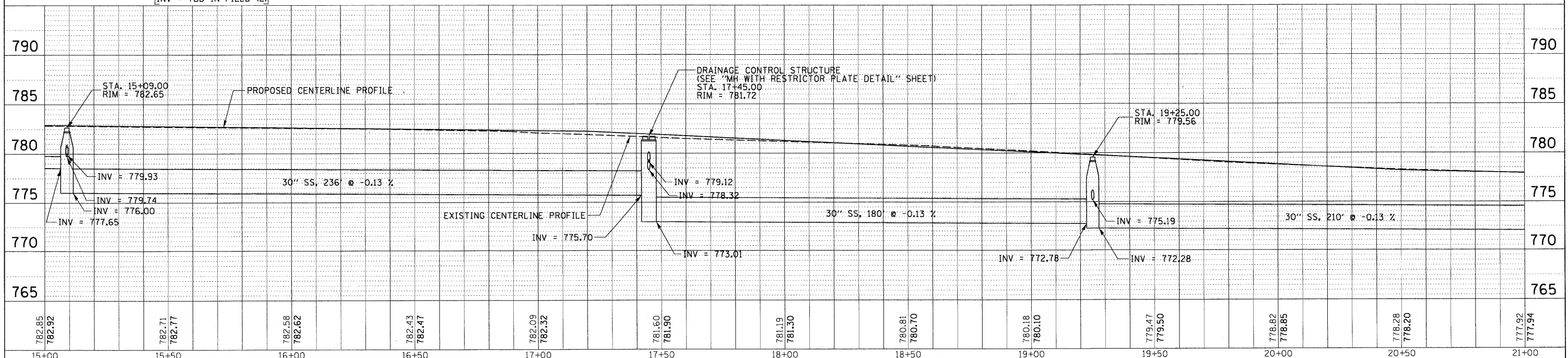
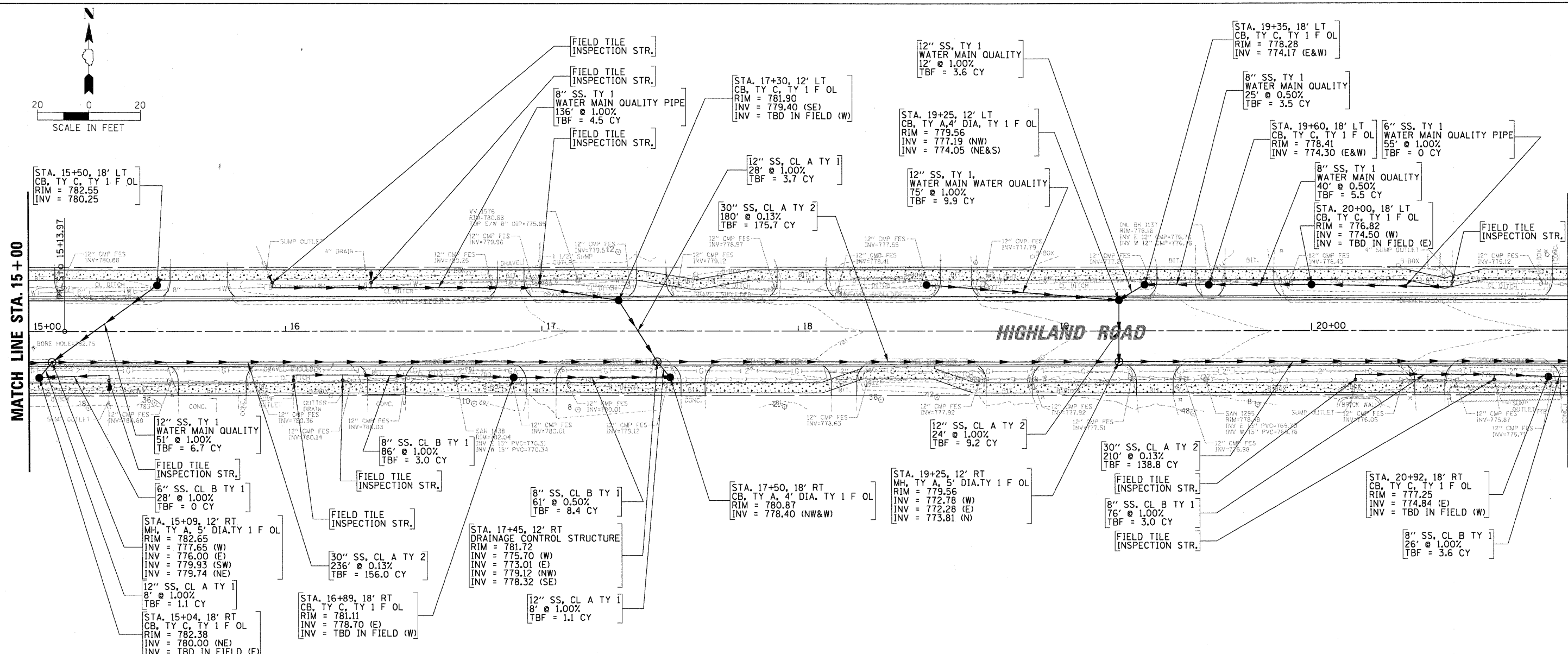
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	16
				CONTRACT NO. 63712
ILLINOIS FED. AID PROJECT				



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NOTATIONS	
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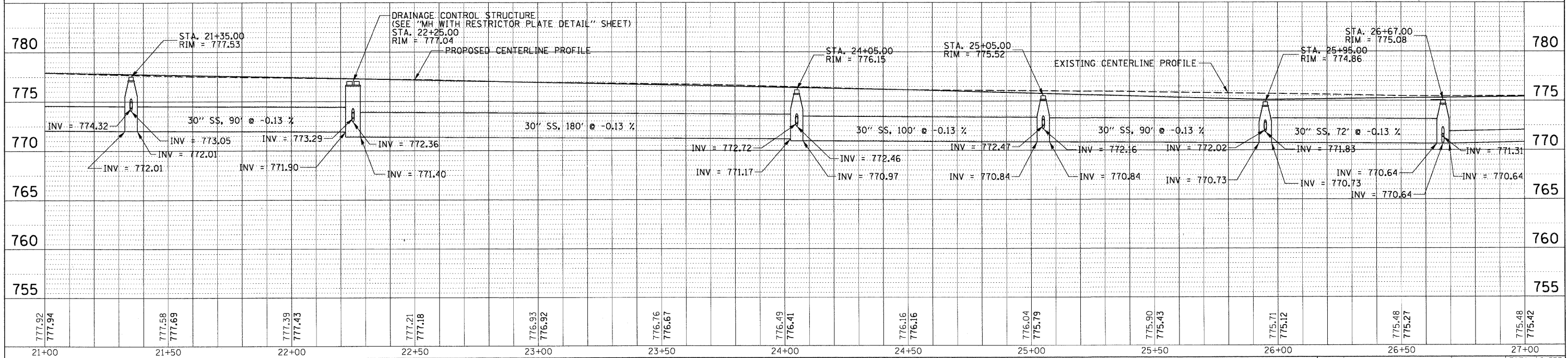
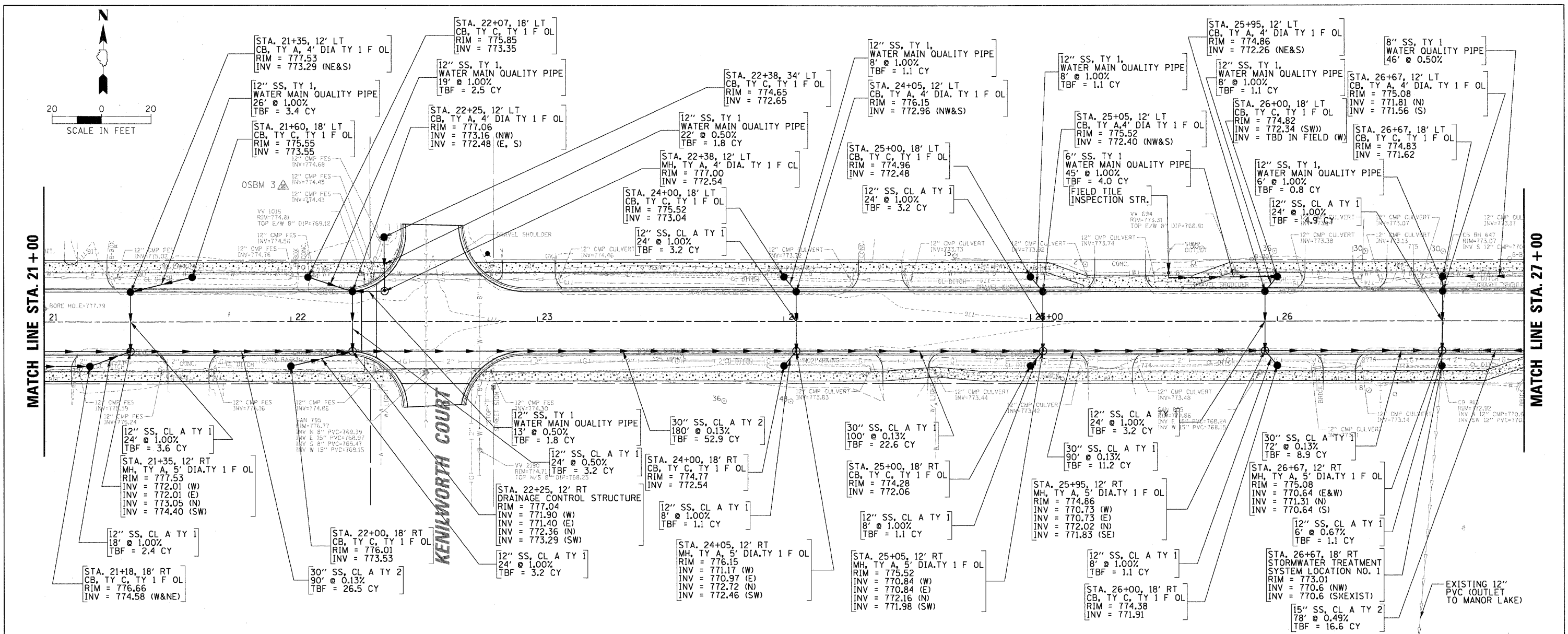


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		CHECKED - MEK	REVISED -											
		DATE - 09/02/2011	REVISED -											

ILLINOIS FED. AID PROJECT
CONTRACT NO. 63712

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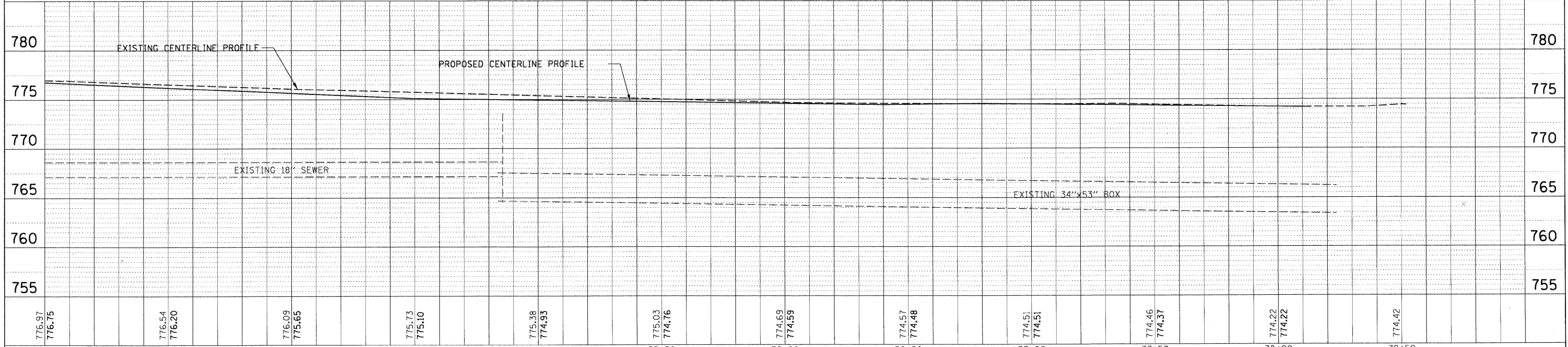
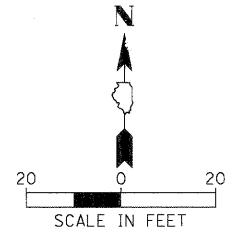
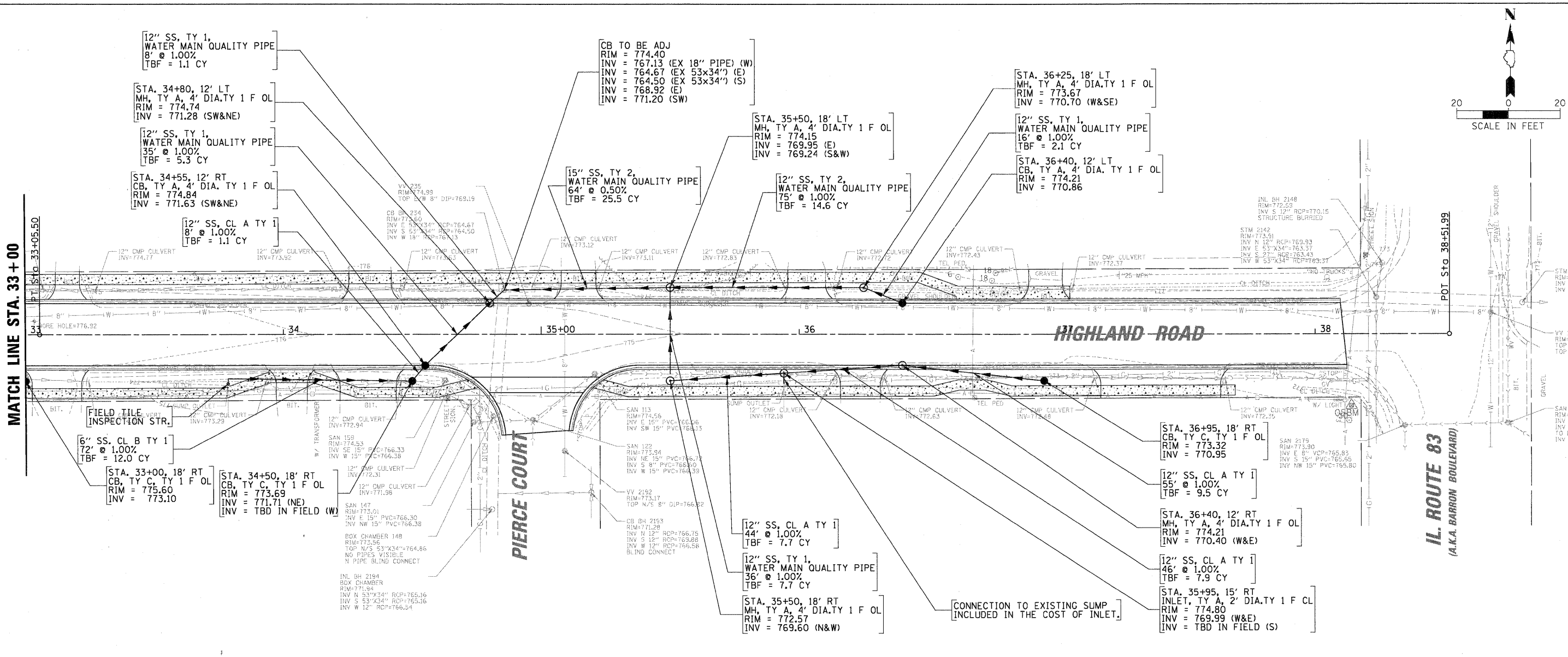
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DESCRIPTION	



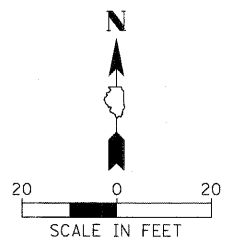
FILE NAME =	USER NAME = mvarder	DESIGNED - SNS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE HIGHLAND ROAD			F.A.U. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CPP_HIGHLAND-03.sht		DRAWN - PWN	REVISED -		204	12-00060-00-WR	LAKE	50	18	CONTRACT NO. 63712		
		CHECKED - MEK	REVISED -		SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
		DATE = 09/02/2011	REVISED -									

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	CHECKED		
	PT. OF WAY		
	NO.		
	NO.		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	CHECKED		
	BLK. NOTED		
	STRUCTURE		
	NOTATIONS		
	CRKD		
	NO.		



FILE NAME = DPP_HIGHLAND-05.sht	USER NAME = mwarder	DESIGNED - SNS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE HIGHLAND ROAD				F.A.U. RTE. = 204	SECTION = 12-00060-00-WR	COUNTY = LAKE	TOTAL SHEETS = 50	SHEET NO. = 20
		DRAWN - PWN	REVISED -		SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 63712					
		CHECKED - MEK	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE = 09/02/2011	REVISED -										



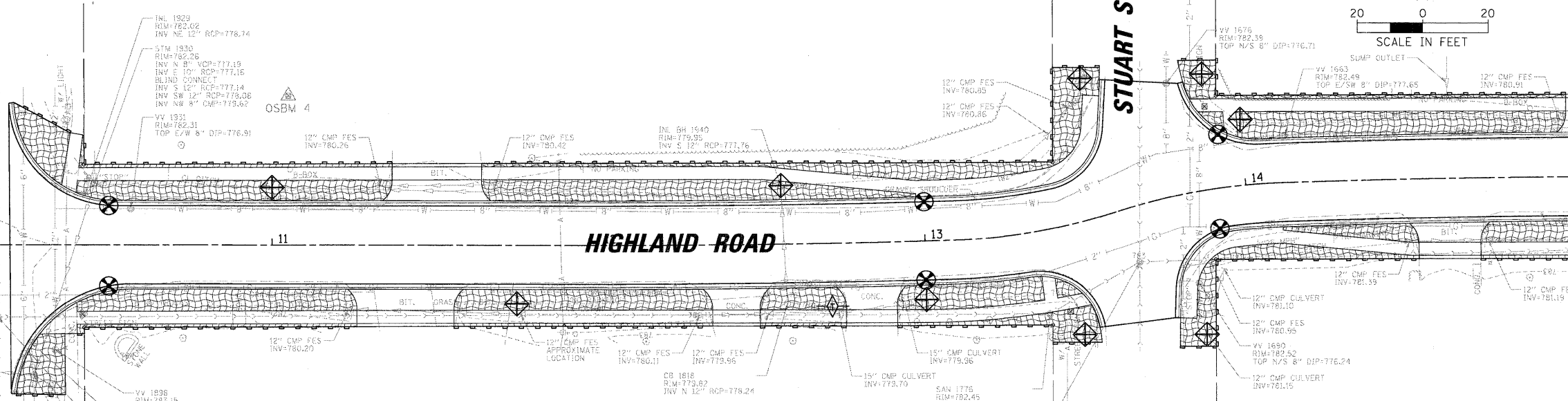
LAKE STREET

STUART STREET

MATCH LINE STA. 15 + 00

MATCH LINE STA. 15 + 00

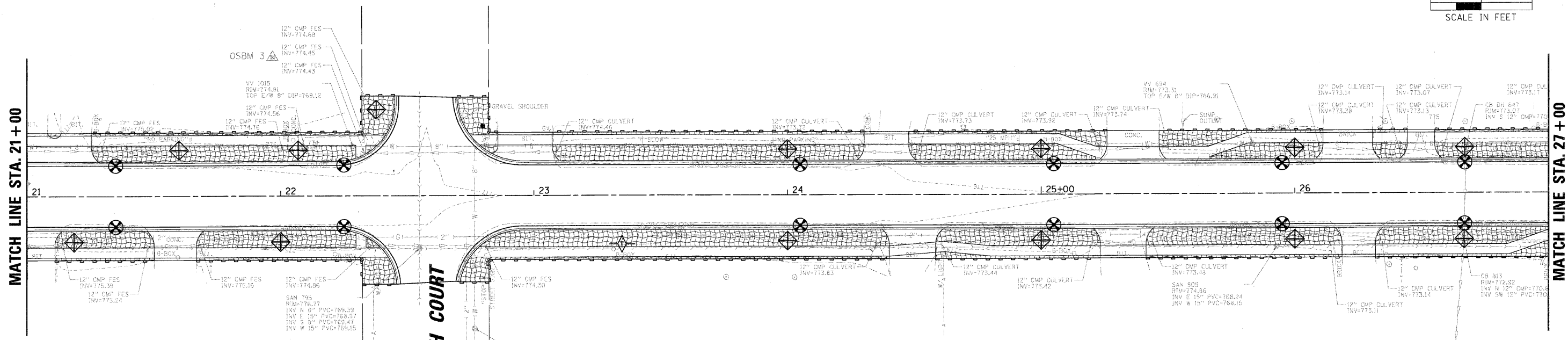
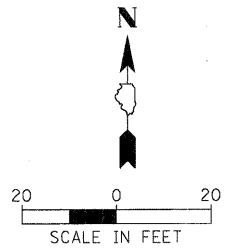
STA. 15 + 00



LEGEND:

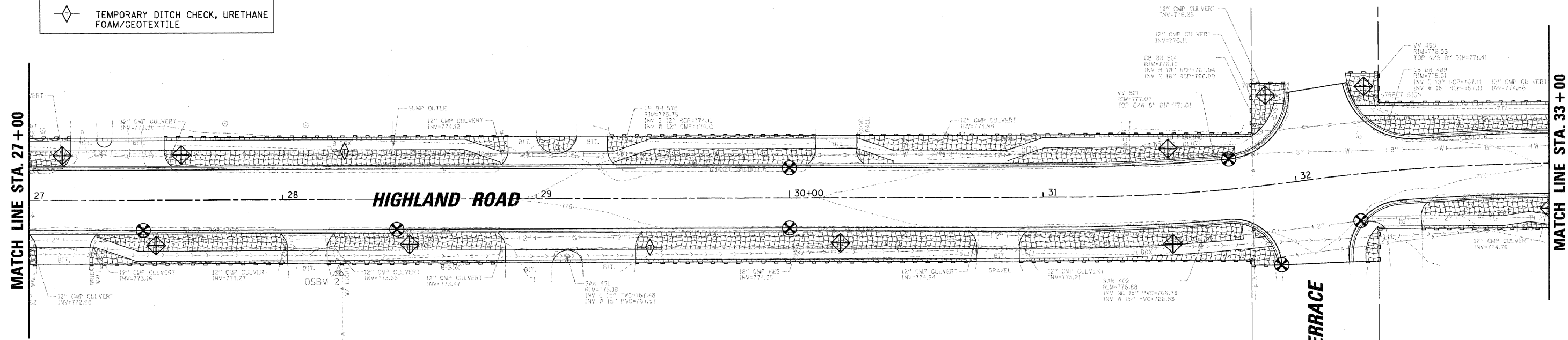
	TOPSOIL FURNISH AND PLACE, 4" SODDING
	INLET PROTECTION (SPECIAL)
	INLET FILTER
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK, URETHANE FOAM/GEOTEXTILE

FILE NAME = N:\g-a-j-lake\110235\Civil\ECPP_HIGHLAND-01.sht	USER NAME = mvorderer	DESIGNED - SNS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN HIGHLAND ROAD				F.A.U. R.T.E. 204	SECTION 12-00060-00-V
PLOT SCALE = 20'		DRAWN - PWN	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.		ILL:
PLOT DATE = 3/27/2012		CHECKED - MEK	REVISED -							
		DATE - 09/02/2011	REVISED -							



LEGEND:

- TOPSOIL FURNISH AND PLACE, 4" SODDING
- INLET PROTECTION (SPECIAL)
- INLET FILTER
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK, URETHANE FOAM/GEOTEXTILE



FILE NAME = N:\groyalake\110235\Civil\NECP_HIGHLAND-02.dwg
 USER NAME = mvorderer
 PLOT SCALE = 20'
 PLOT DATE = 3/27/2012

DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

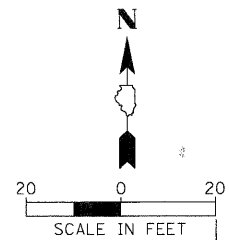
REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

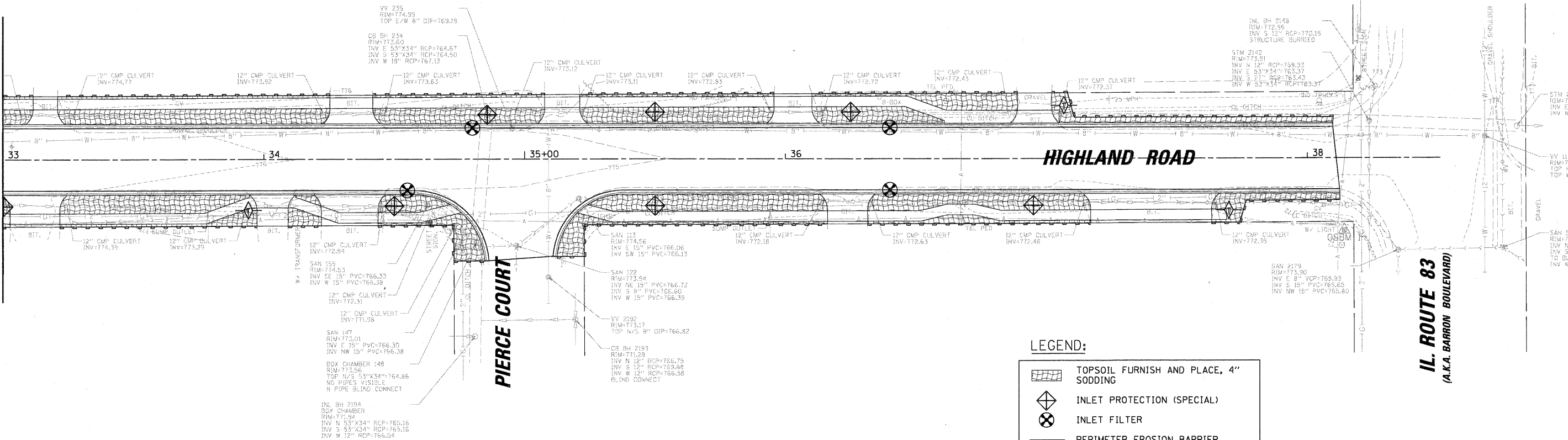
**EROSION CONTROL PLAN
 HIGHLAND ROAD**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63712	



MATCH LINE STA. 33+00

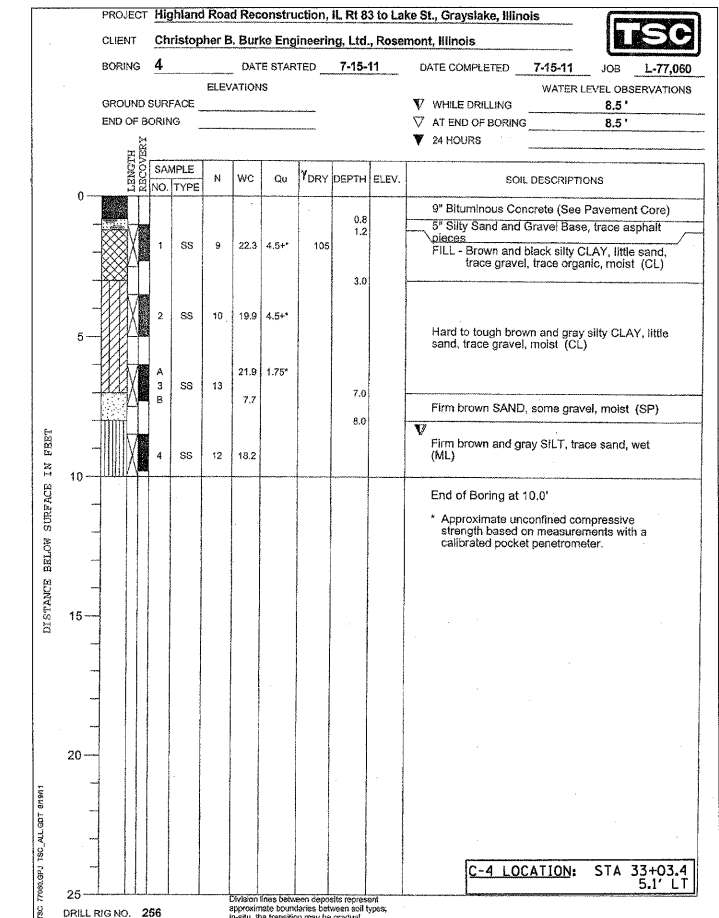
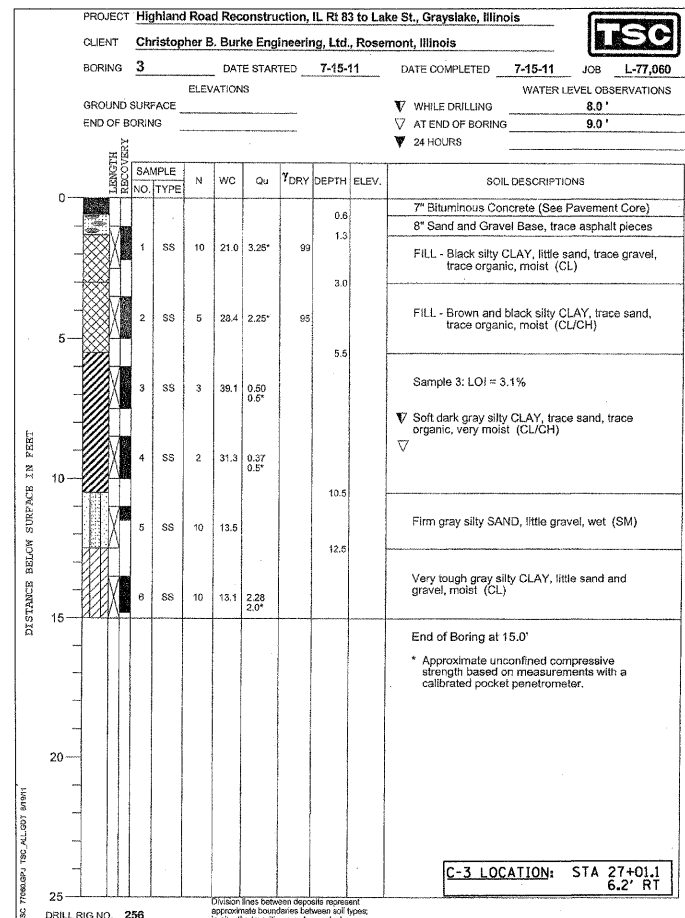
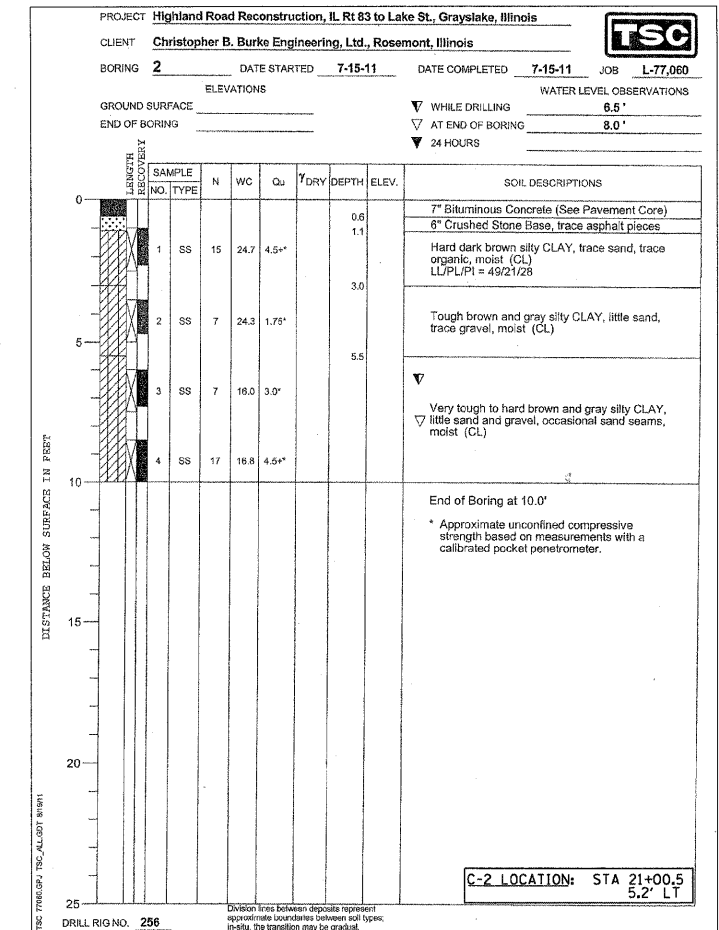
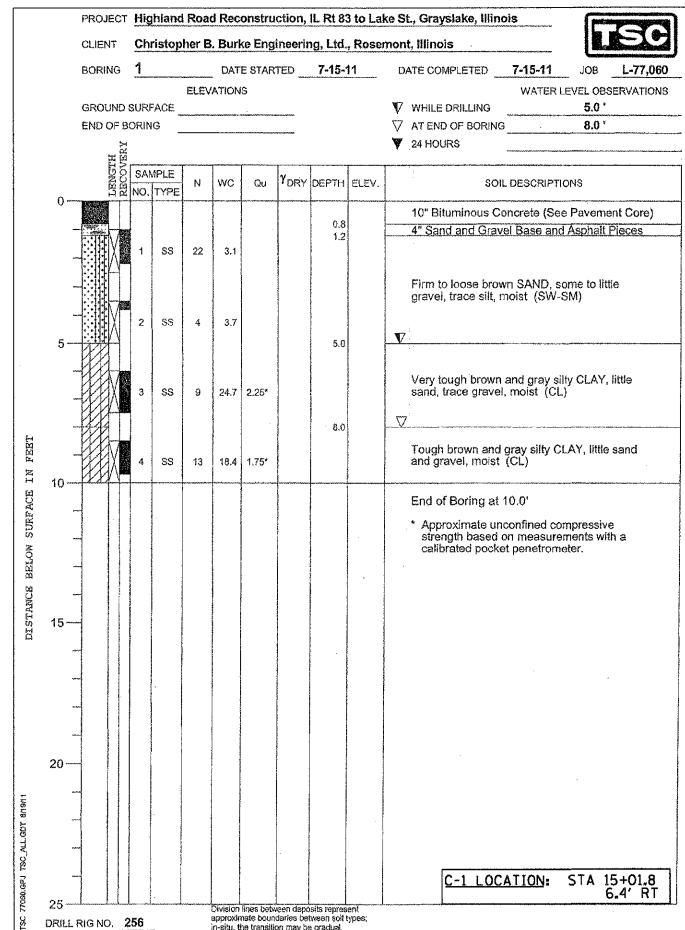


LEGEND:

- TOPSOIL FURNISH AND PLACE, 4" SODDING
- INLET PROTECTION (SPECIAL)
- INLET FILTER
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK, URETHANE FOAM/GEOTEXTILE

YV 235
 RIM=774.99
 TOP E/W 8" DIP=763.19
 OS BH 224
 RIM=773.59
 INV E 53"x34" RCP=764.67
 INV S 53"x34" RCP=764.50
 INV W 15" RCP=761.15
 12" CMP CULVERT
 INV=774.77
 12" CMP CULVERT
 INV=773.92
 12" CMP CULVERT
 INV=773.63
 12" CMP CULVERT
 INV=772.12
 12" CMP CULVERT
 INV=773.11
 12" CMP CULVERT
 INV=772.83
 12" CMP CULVERT
 INV=772.72
 12" CMP CULVERT
 INV=772.45
 12" CMP CULVERT
 INV=772.37
 INL BH 2146
 RIM=772.58
 INV S 12" RCP=770.15
 STRUCTURE GUARDED
 STM 2140
 RIM=773.91
 INV N 12" RCP=768.93
 INV E 53"x34" RCP=763.37
 INV S 21" RCP=763.43
 INV W 53"x34" RCP=763.37
 SAN 159
 RIM=774.53
 INV SE 15" PVC=766.33
 INV W 15" PVC=765.38
 12" CMP CULVERT
 INV=772.94
 12" CMP CULVERT
 INV=772.53
 12" CMP CULVERT
 INV=771.98
 SAN 147
 RIM=773.01
 INV E 15" PVC=766.30
 INV NW 15" PVC=766.38
 BOX CHAMBER 149
 RIM=773.56
 TOP N/S 53"x34"-764.86
 NO PIPES VISIBLE
 N PIPE BLIND CONNECT
 INL BH 2194
 BOX CHAMBER
 RIM=771.92
 INV N 53"x34" RCP=765.16
 INV S 53"x34" RCP=763.10
 INV W 12" RCP=766.54
 SAN 122
 RIM=773.94
 INV RE 15" PVC=766.72
 INV S 8" PVC=766.60
 INV W 15" PVC=766.39
 YV 2192
 RIM=773.17
 TOP N/S 8" DIP=766.82
 OS BH 2193
 RIM=771.29
 INV N 12" RCP=766.75
 INV S 12" RCP=763.98
 INV W 12" RCP=766.38
 BLIND CONNECT
 SAN 113
 RIM=774.56
 INV E 15" PVC=766.06
 INV S 15" PVC=766.13
 SAN 129
 RIM=773.94
 INV RE 15" PVC=766.72
 INV S 8" PVC=766.60
 INV W 15" PVC=766.39
 SAN 2179
 RIM=773.90
 INV E 8" VCP=765.93
 INV S 15" PVC=765.65
 INV NW 15" PVC=765.60

FILE NAME = N:\graylake\110235\VC\I\NECP-HIGHLAND-03.sht	USER NAME = mvorderer	DESIGNED - SNS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN HIGHLAND ROAD				F.A.U. RTE. 204	SECTION 12-00060-00-WR	COUNTY LAKE	TOTAL SHEETS 50	SHEET NO. 23
PLOT SCALE = 20'		DRAWN - PWN	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 63712				
PLOT DATE = 3/27/2012		CHECKED - MEK	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE - 09/02/2011	REVISED -										



FILE NAME =	USER NAME = mvdorder	DESIGNED - SNS	REVISED -
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	PLOT SCALE = 20'	CHECKED - MEK	REVISED -
	PLOT DATE = 3/27/2012	DATE - 09/02/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

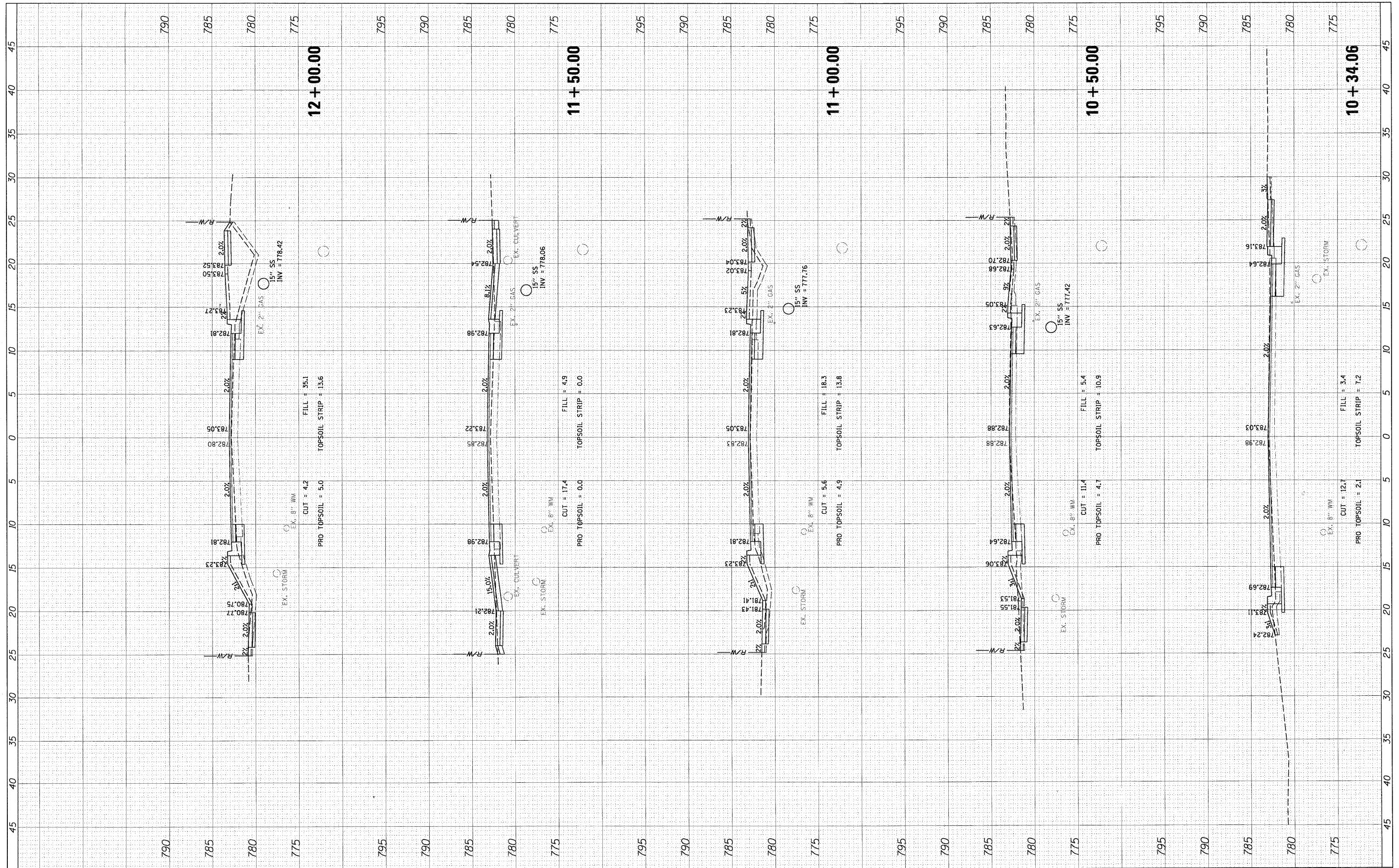
**SOIL BORING LOGS
HIGHLAND ROAD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	24
CONTRACT NO. 63712				ILLINOIS FED. AID PROJECT

SCALE: SHEET NO. OF SHEETS STA. TO STA.

FINAL SURVEY	DATE
SURVISED	BY
NOTE BOOK	NO.
PLANTING	DATE
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVISED	BY
NOTE BOOK	NO.
PLANTING	DATE
AREAS CHECKED	



FILE NAME = PXS_HIGHLAND.sht
 USER NAME = mwardner

DESIGNED SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISIONS
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

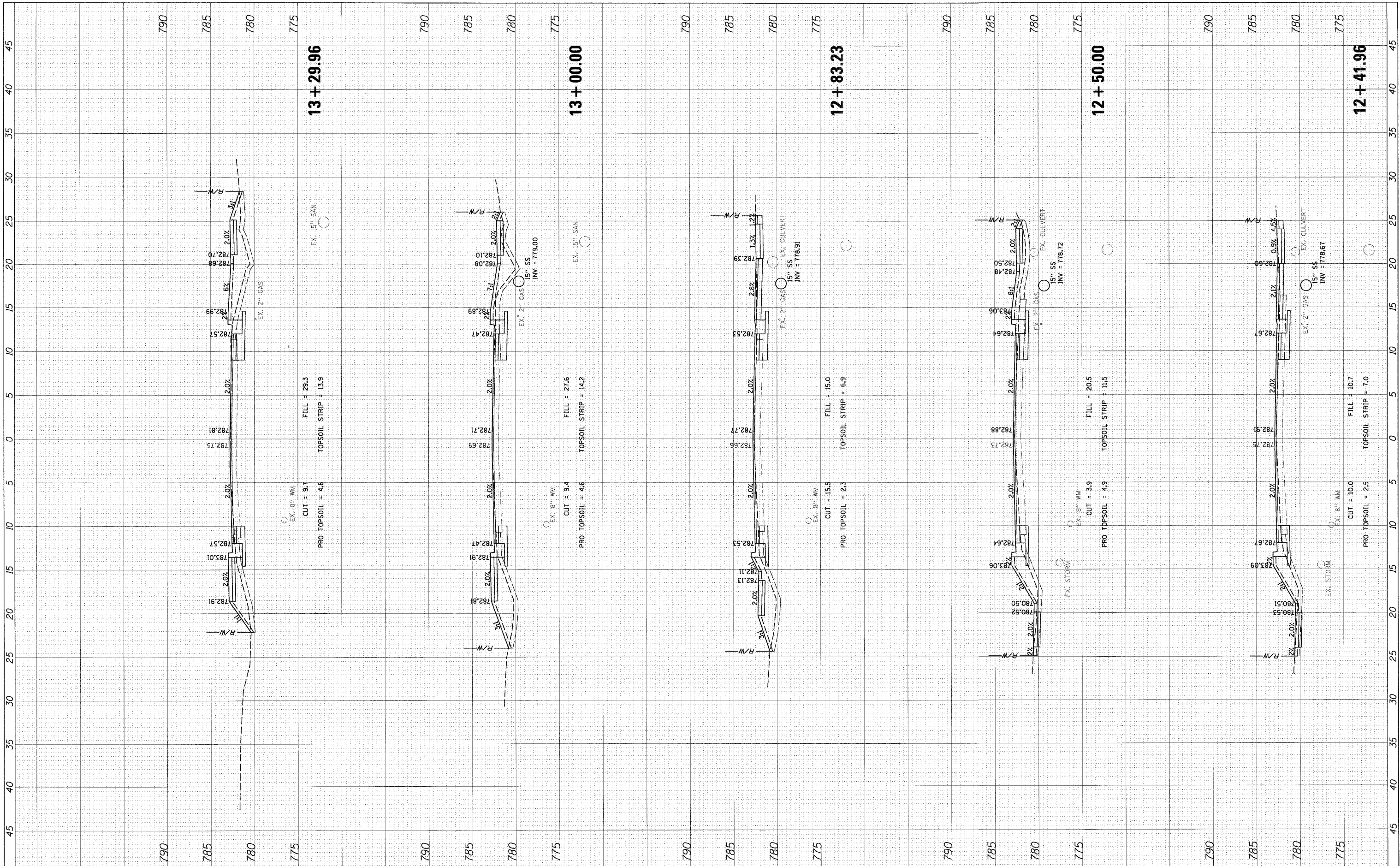
CROSS SECTIONS
 HIGHLAND ROAD

SCALE: 1" = 5'
 SHEET NO. OF SHEETS STA. 10+34.06 TO STA. 12+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	26
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		



FILE NAME = PXS_HIGHLAND.sht
 USER NAME = mvd@ds-ar

DESIGNED	-	SNS
DRAWN	-	PWN
CHECKED	-	MEK
DATE	-	09/02/2011

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

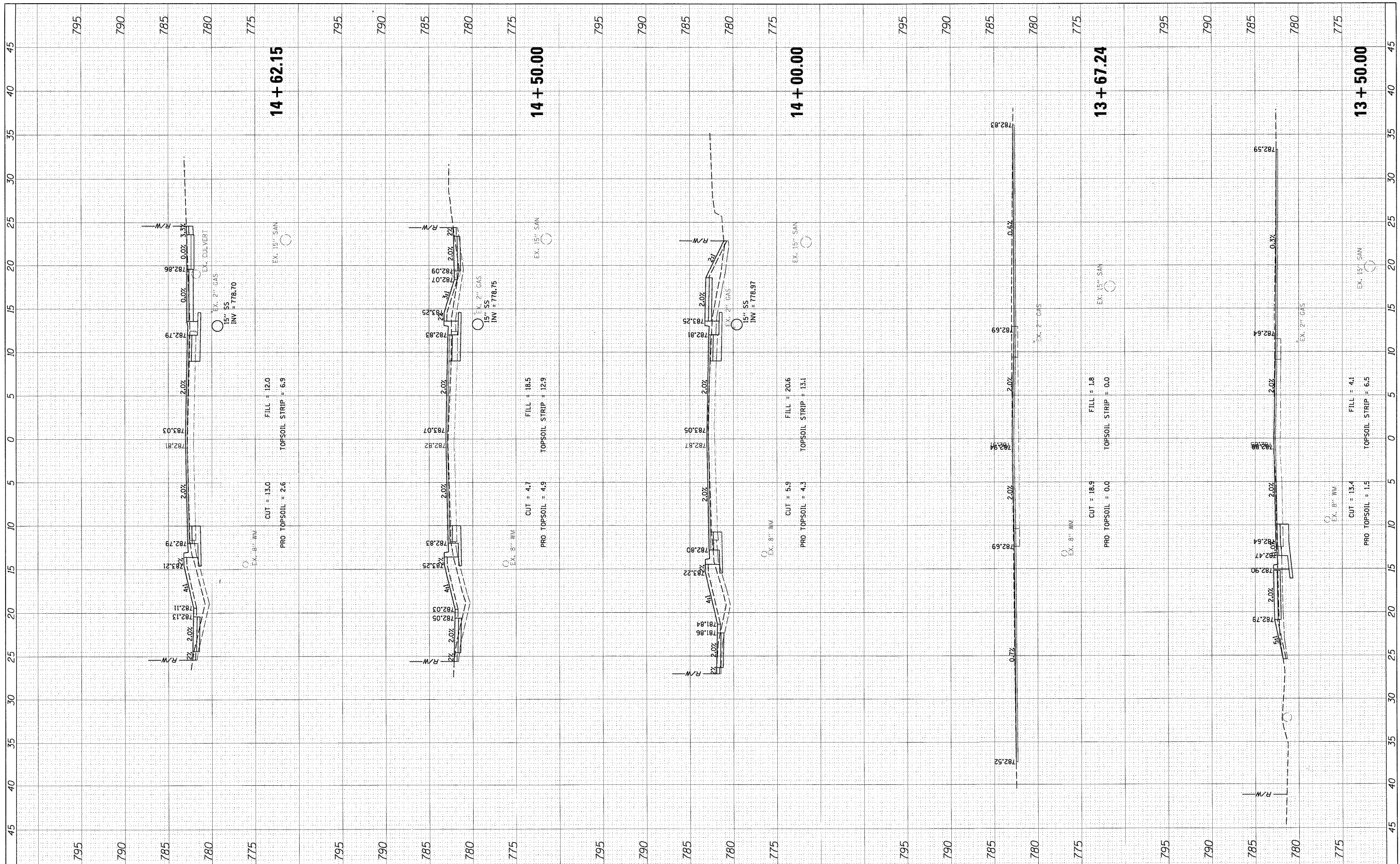
**CROSS SECTIONS
HIGHLAND ROAD**

SCALE: 1" = 5' SHEET NO. OF SHEETS STA. 12+41.96 TO STA. 13+29.96

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	27
				CONTRACT NO.
				ILLINOIS FED. AID PROJECT

FINAL SURVEY	BY	DATE
SURVEYED		
PLANNED		
NOTE BOOK		
AREAS CHECKED		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLANNED		
NOTE BOOK		
AREAS CHECKED		
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FILE NAME = PXS_HIGHLAND.sht
 USER NAME = mwardner

DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISIONS:
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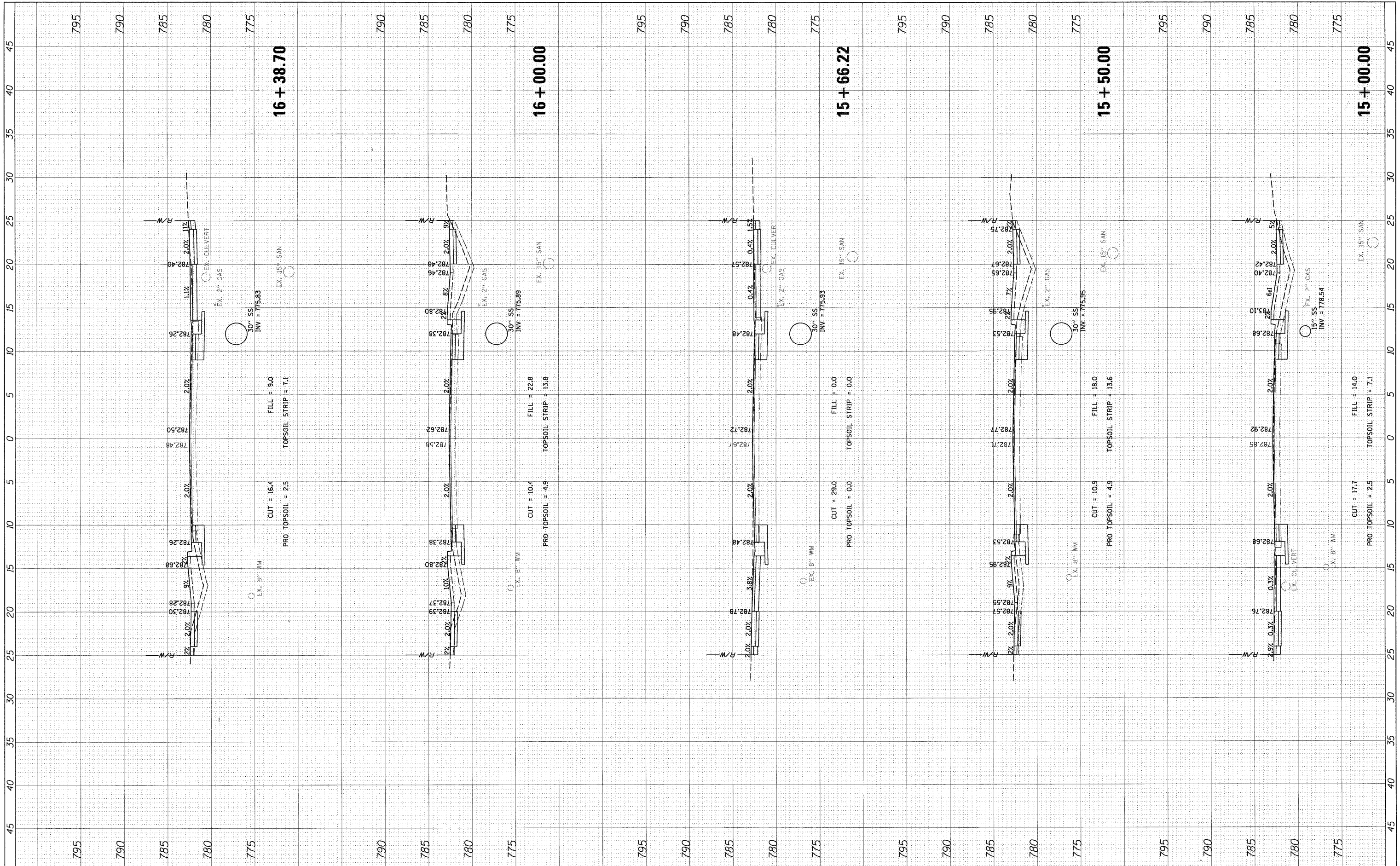
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 HIGHLAND ROAD**
 SCALE: 1" = 5'
 SHEET NO. OF SHEETS STA. 13+50.00 TO STA. 14+62.15

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	28
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	DATE
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	



FILE NAME = PXS_HIGHLAND.sht

USER NAME = mvorderer
 PLOT SCALE = 5'
 PLOT DATE = 3/27/2012

DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

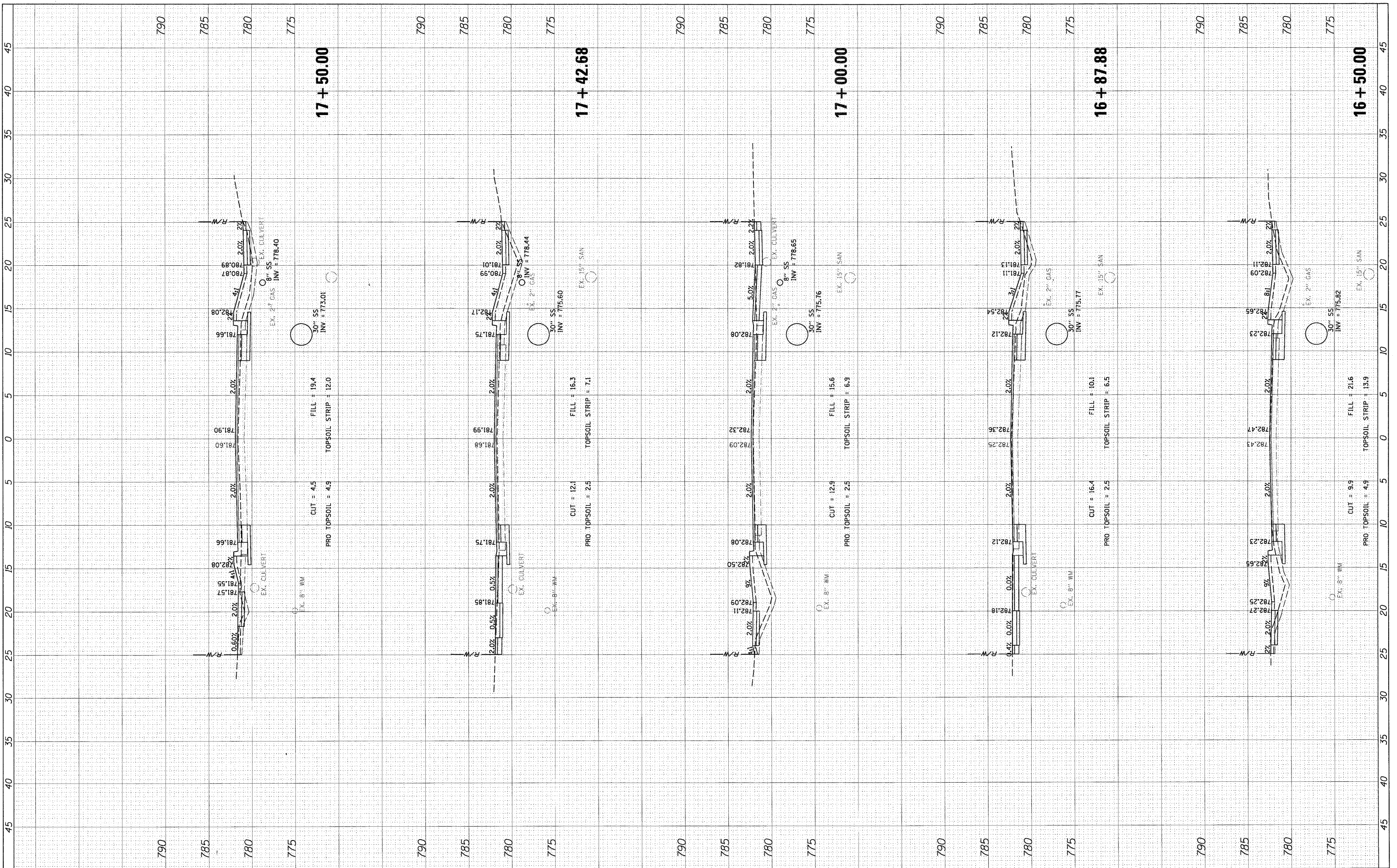
**CROSS SECTIONS
 HIGHLAND ROAD**

SCALE: 1" = 5' SHEET NO. OF SHEETS STA. 15+00.00 TO STA. 16+38.70

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	29
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

NO.	AREAS CHECKED
NO.	AREAS CHECKED
NO.	AREAS CHECKED
NO.	AREAS CHECKED
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NO.	AREAS CHECKED
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NO.	AREAS CHECKED



FILE NAME = PXS_HIGHLAND.sht
 USER NAME = mborderer
 PLOT SCALE = 5'
 PLOT DATE = 3/27/2012

DESIGNED - SNS	REVISION -
DRAWN - PWN	REVISION -
CHECKED - MEK	REVISION -
DATE - 09/02/2011	REVISION -

CUT = 4.5	FILL = 19.4
PRO TOPSOIL = 4.9	TOPSOIL STRIP = 12.0

CUT = 12.1	FILL = 16.3
PRO TOPSOIL = 2.5	TOPSOIL STRIP = 7.1

CUT = 12.9	FILL = 15.6
PRO TOPSOIL = 2.5	TOPSOIL STRIP = 6.9

CUT = 16.4	FILL = 10.1
PRO TOPSOIL = 2.5	TOPSOIL STRIP = 6.5

CUT = 9.9	FILL = 21.6
PRO TOPSOIL = 4.9	TOPSOIL STRIP = 13.9

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

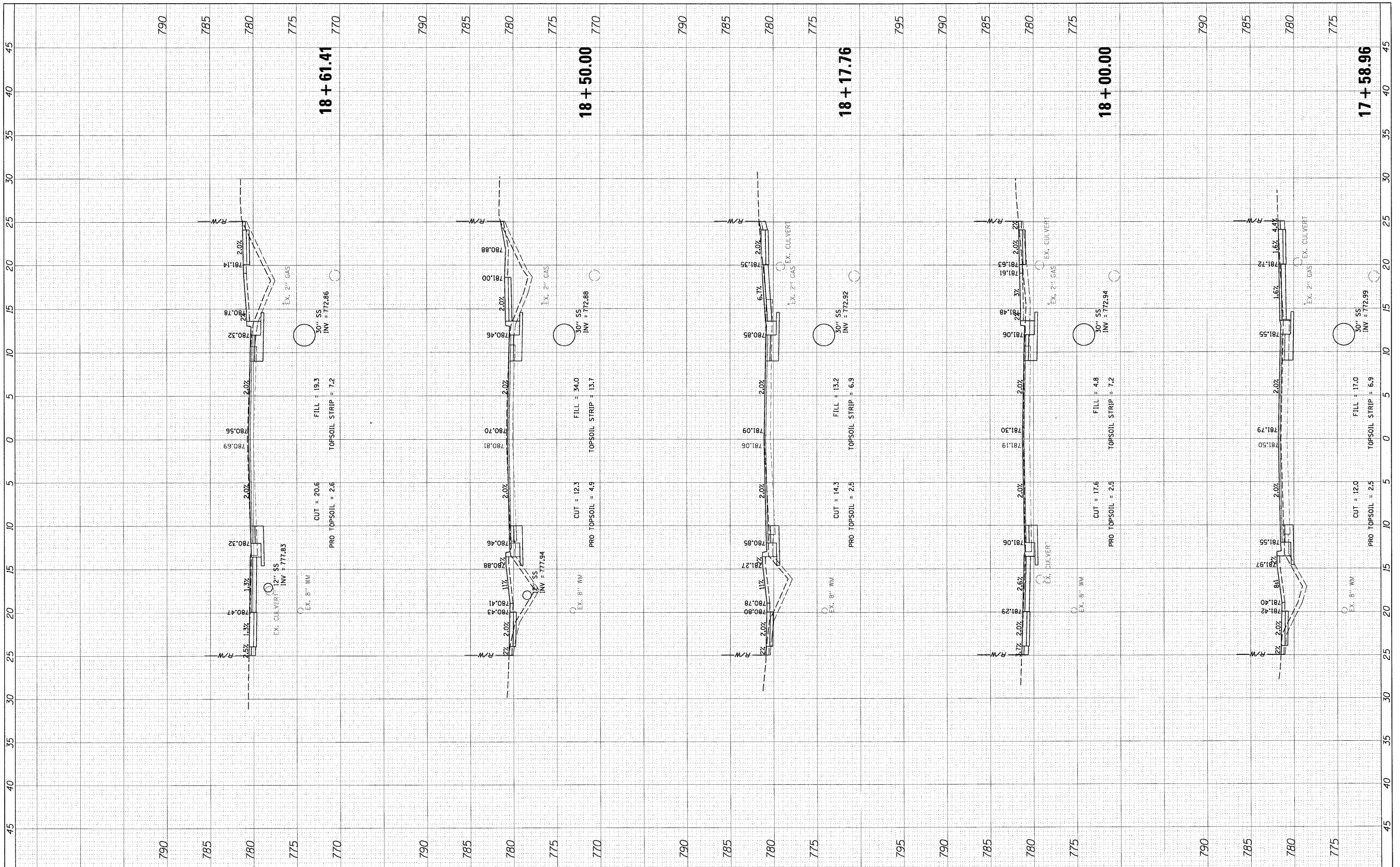
**CROSS SECTIONS
HIGHLAND ROAD**

SCALE: 1" = 5'
 SHEET NO. OF SHEETS STA. 16+50.00 TO STA. 17+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	30
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME = PXS_HIGHLAND.sht

USER NAME = mvorder
 PLOT SCALE = 5'
 PLOT DATE = 3/27/2012

DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

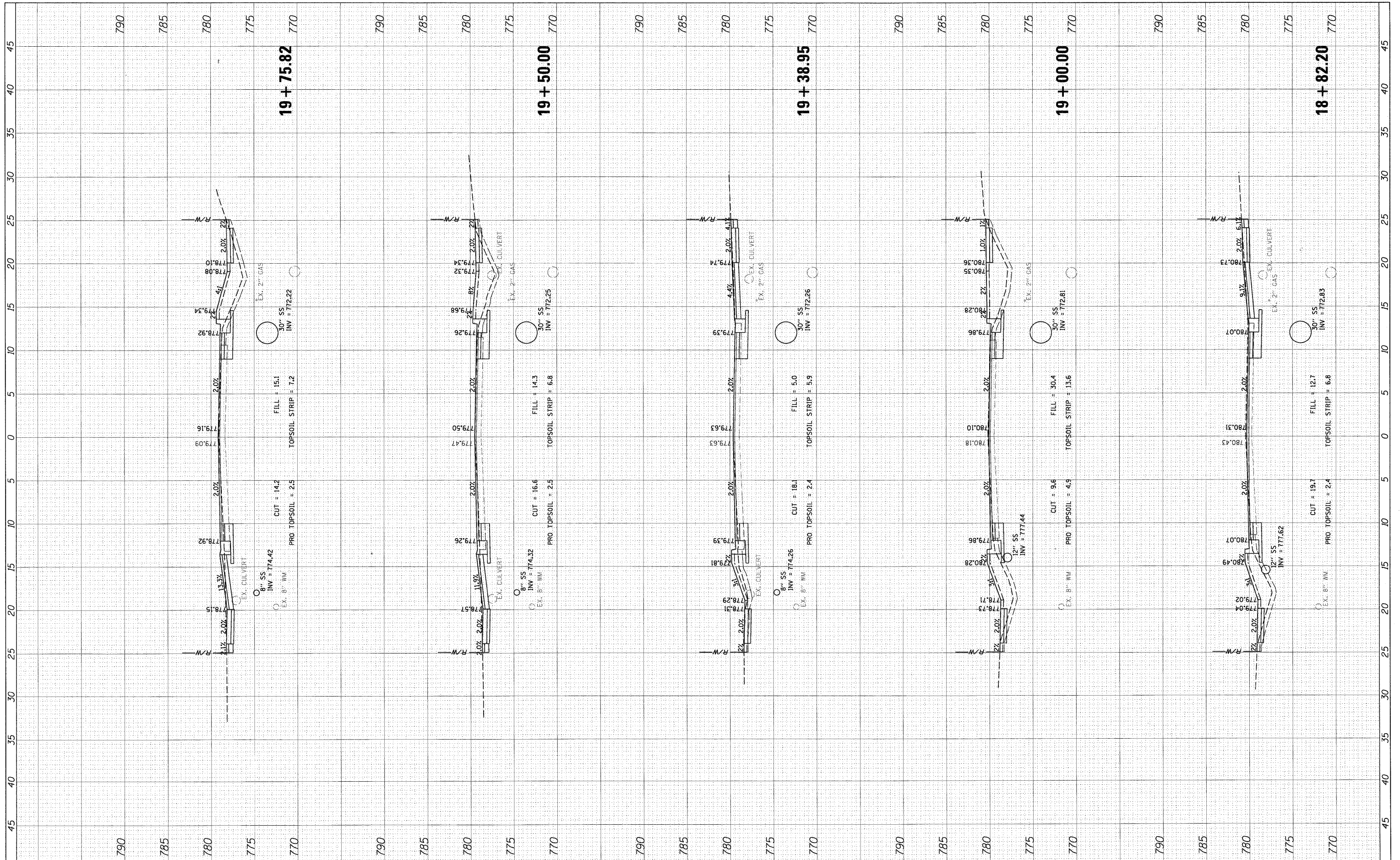
**CROSS SECTIONS
 HIGHLAND ROAD**

SCALE: 1" = 5' SHEET NO. OF SHEETS STA. 17+58.96 TO STA. 18+61.41

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	31
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NO. 11 BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

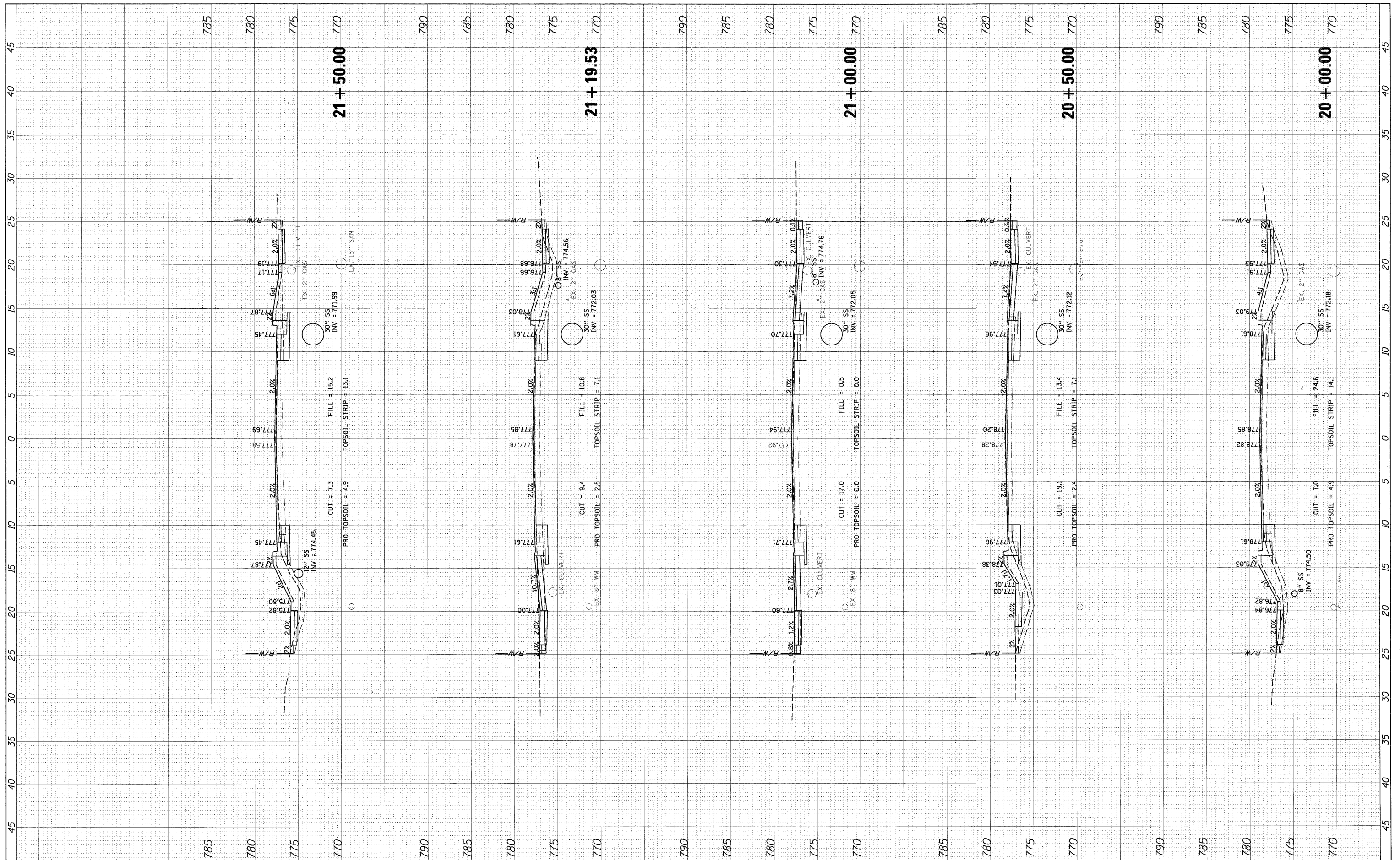
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



FILE NAME = PXS_HIGHLAND.sht	USER NAME = mvc00000	DESIGNED - SNS	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">CROSS SECTIONS HIGHLAND ROAD</p> <p>SCALE: 1" = 5' SHEET NO. OF SHEETS STA. 18+82.20 TO STA. 19+75.82</p>	F.A.U. RTE. 204	SECTION 12-00060-00-WR	COUNTY LAKE	TOTAL SHEETS 50	SHEET NO. 32
	PLOT SCALE = 5'	DRAWN - PWN	REVISED -						
	PLOT DATE = 3/27/2012	CHECKED - MEK	REVISED -						
		DATE - 09/02/2011	REVISED -						

FINAL SURVEY	DATE
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NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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ORIGINAL SURVEY	DATE
SURVEYED	
NOTE BOOK	
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AREAS CHECKED	
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FILE NAME = PXS_HIGHLAND.sht
 USER NAME = mvorderer
 DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISIONS:
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

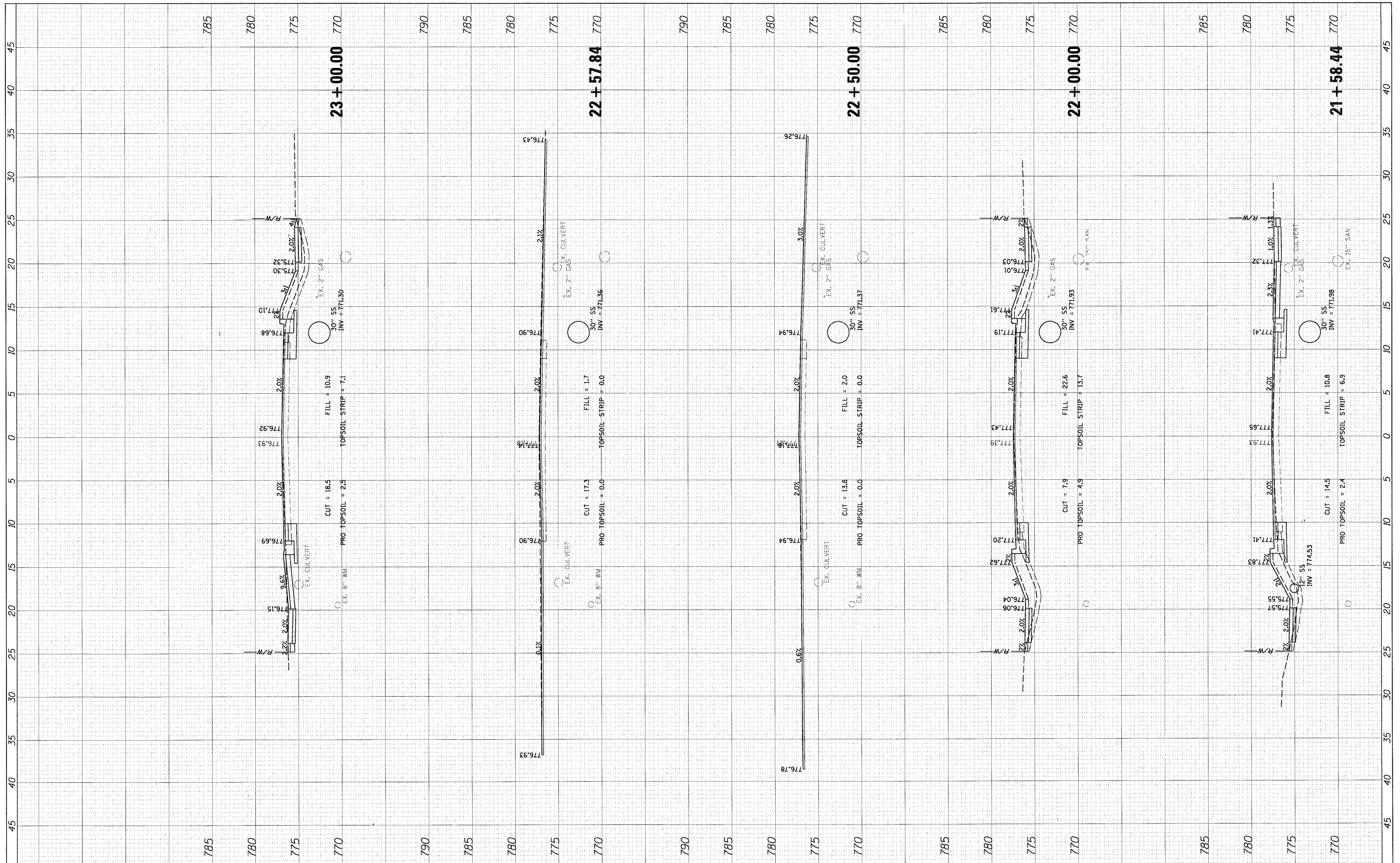
CROSS SECTIONS
 HIGHLAND ROAD

SCALE: 1" = 5'
 SHEET NO. OF SHEETS STA. 20+00.00 TO STA. 21+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	33
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED	



FILE NAME = PXS_HIGHLAND.sht

USER NAME = mborderer
 DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

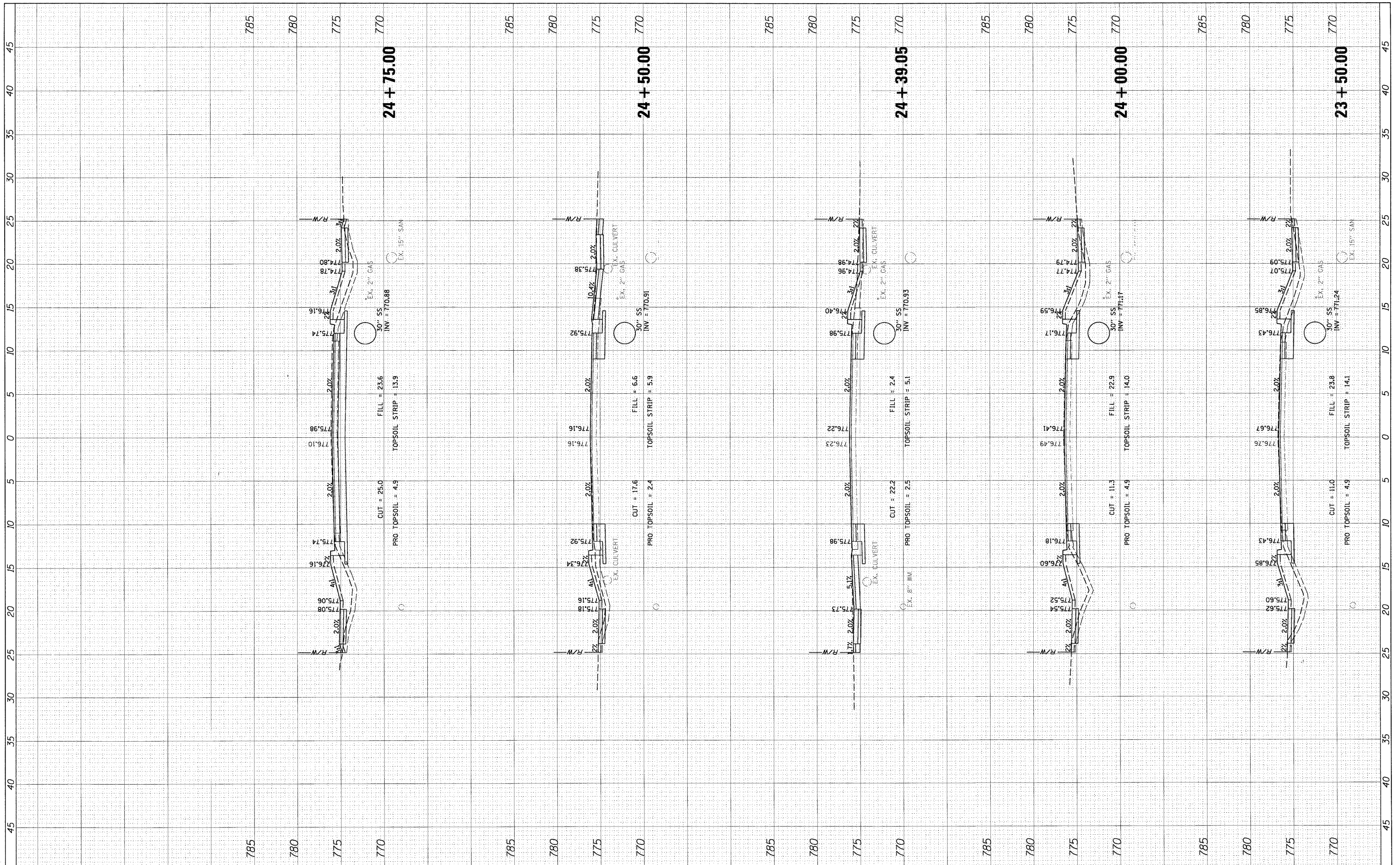
**CROSS SECTIONS
 HIGHLAND ROAD**

SCALE: 1" = 5' SHEET NO. OF SHEETS STA. 21+58.44 TO STA. 23+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	34
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	NO.
TEMPLATE	AREAS CHECKED
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	NO.
TEMPLATE	AREAS CHECKED
AREAS CHECKED	



FILE NAME = PXS.HIGHLAND.sht
 USER NAME = mvordar
 DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISIONS	NO.	DESCRIPTION
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REVISIONS
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

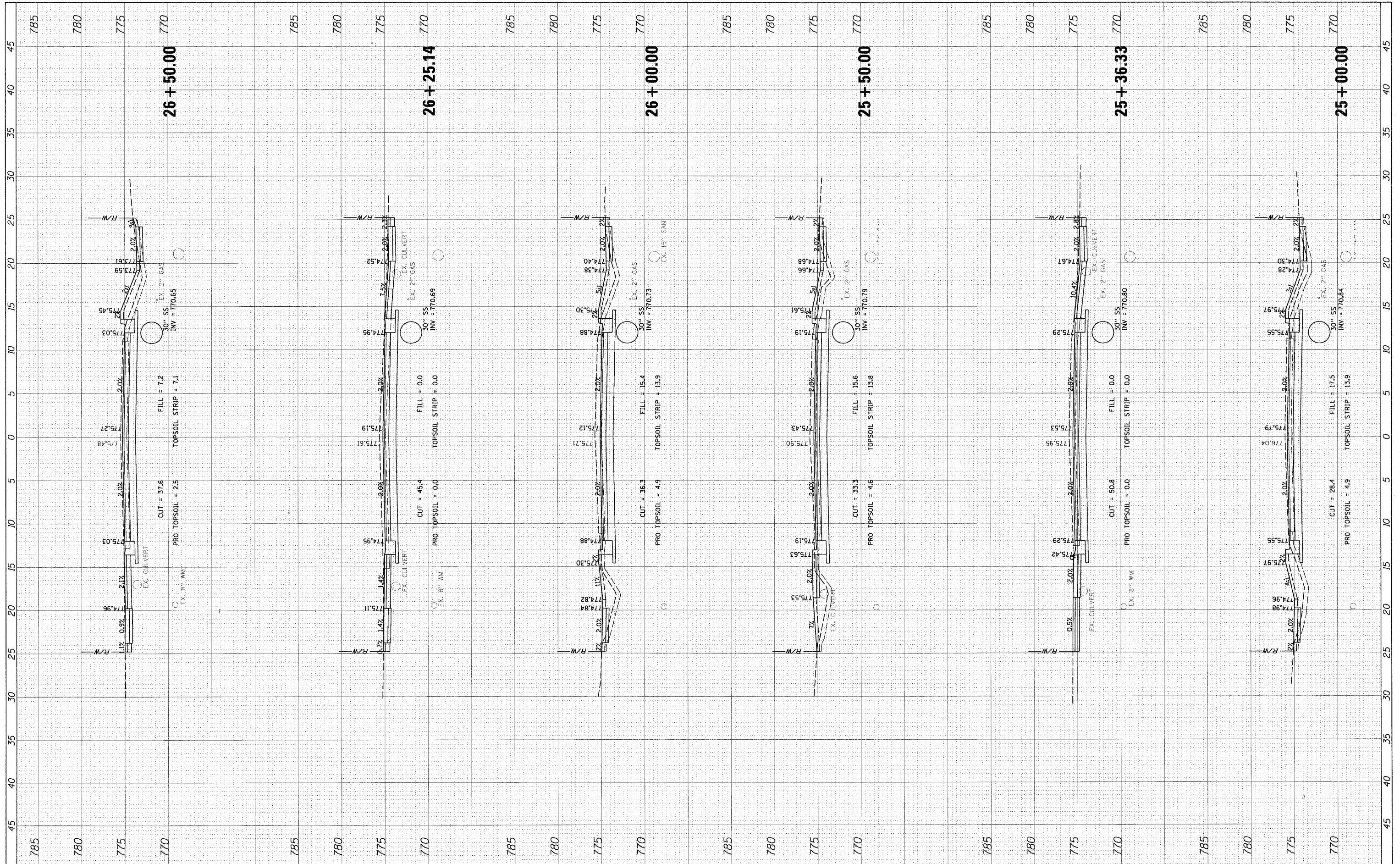
**CROSS SECTIONS
 HIGHLAND ROAD**

SCALE: 1" = 5'
 SHEET NO. OF SHEETS STA. 23+50.00 TO STA. 24+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	35
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	



FILE NAME = PXS_HIGHLAND.sht
 USER NAME = mvorderer
 PLOT SCALE = 5'
 PLOT DATE = 3/27/2012

DESIGNED - SNS	REVISED -
DRAWN - PWN	REVISED -
CHECKED - MEK	REVISED -
DATE - 09/02/2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

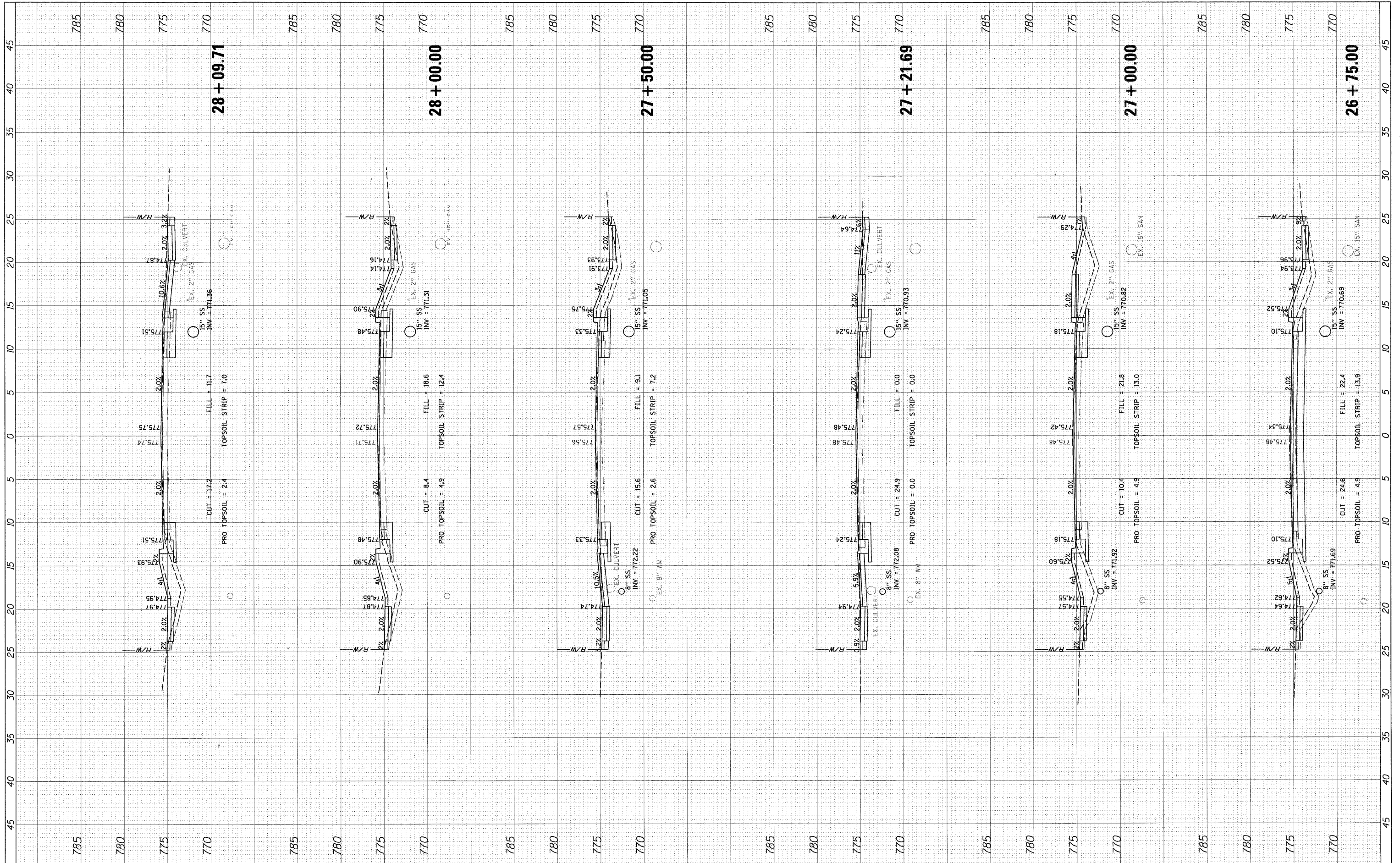
**CROSS SECTIONS
HIGHLAND ROAD**

SCALE: 1" = 5' SHEET NO. OF SHEETS STA. 25+00.00 TO STA. 26+50.00

F.A.U. RTE. 204	SECTION 12-00060-00-WR	COUNTY LAKE	TOTAL SHEETS 50	SHEET NO. 36
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	NO.
TEMPLATE	AREAS CHECKED
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	NO.
TEMPLATE	AREAS CHECKED
AREAS CHECKED	



FILE NAME = PXS_HIGHLAND.sh
 USER NAME = mvorderer
 DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

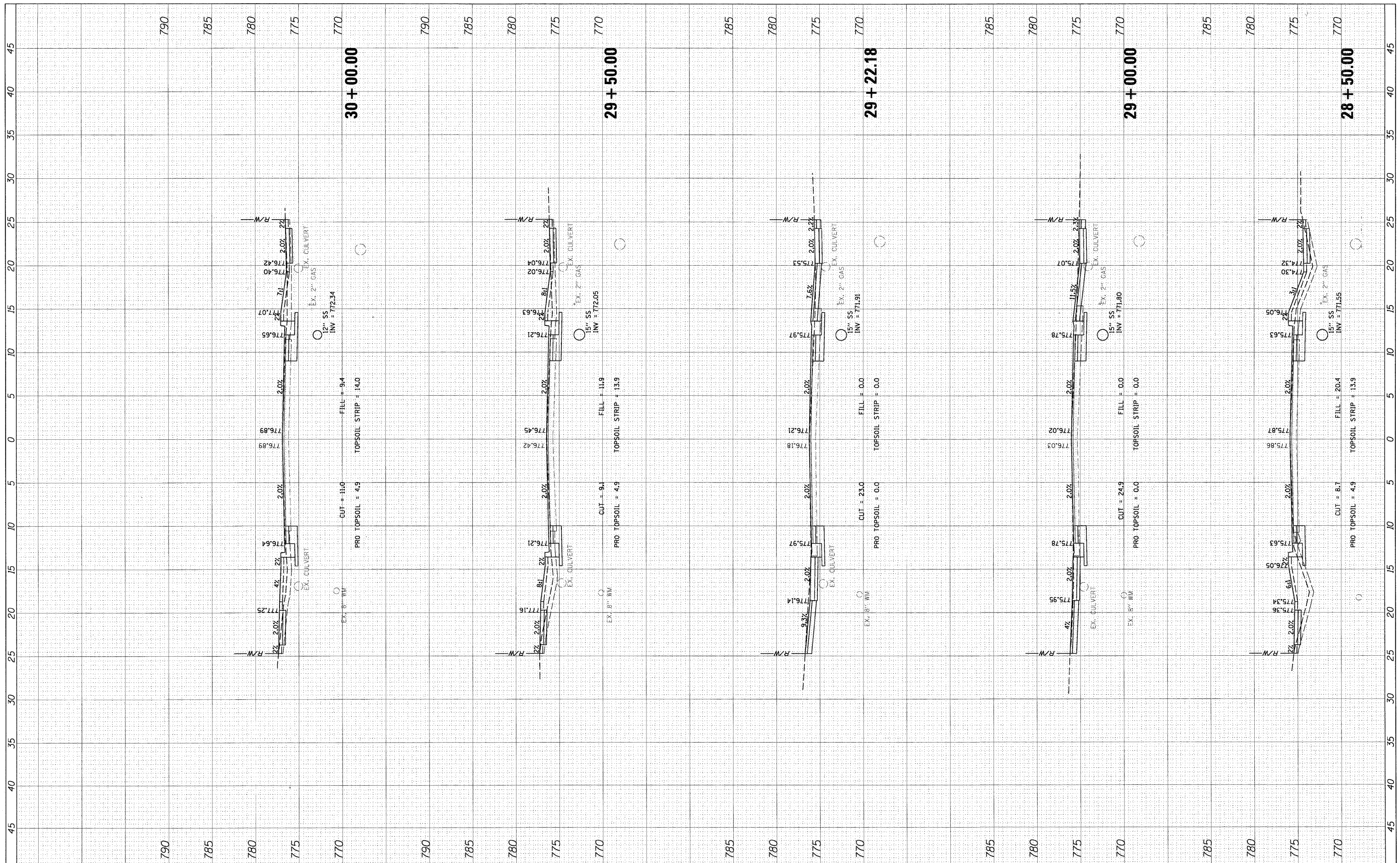
**CROSS SECTIONS
 HIGHLAND ROAD**

SCALE: 1" = 5'
 SHEET NO. OF SHEETS STA. 26+75.00 TO STA. 28+09.71

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	37
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL	SURVEYED	BY	DATE
SURVEY	BOOK		
NOTE BOOK	TEMPLATE		
AREAS	CHECKED		
NO.			

ORIGINAL	SURVEYED	BY	DATE
SURVEY	BOOK		
NOTE BOOK	TEMPLATE		
AREAS	CHECKED		
NO.			



FILE NAME = PXS_HIGHLAND.sht

USER NAME = mvdorner

DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

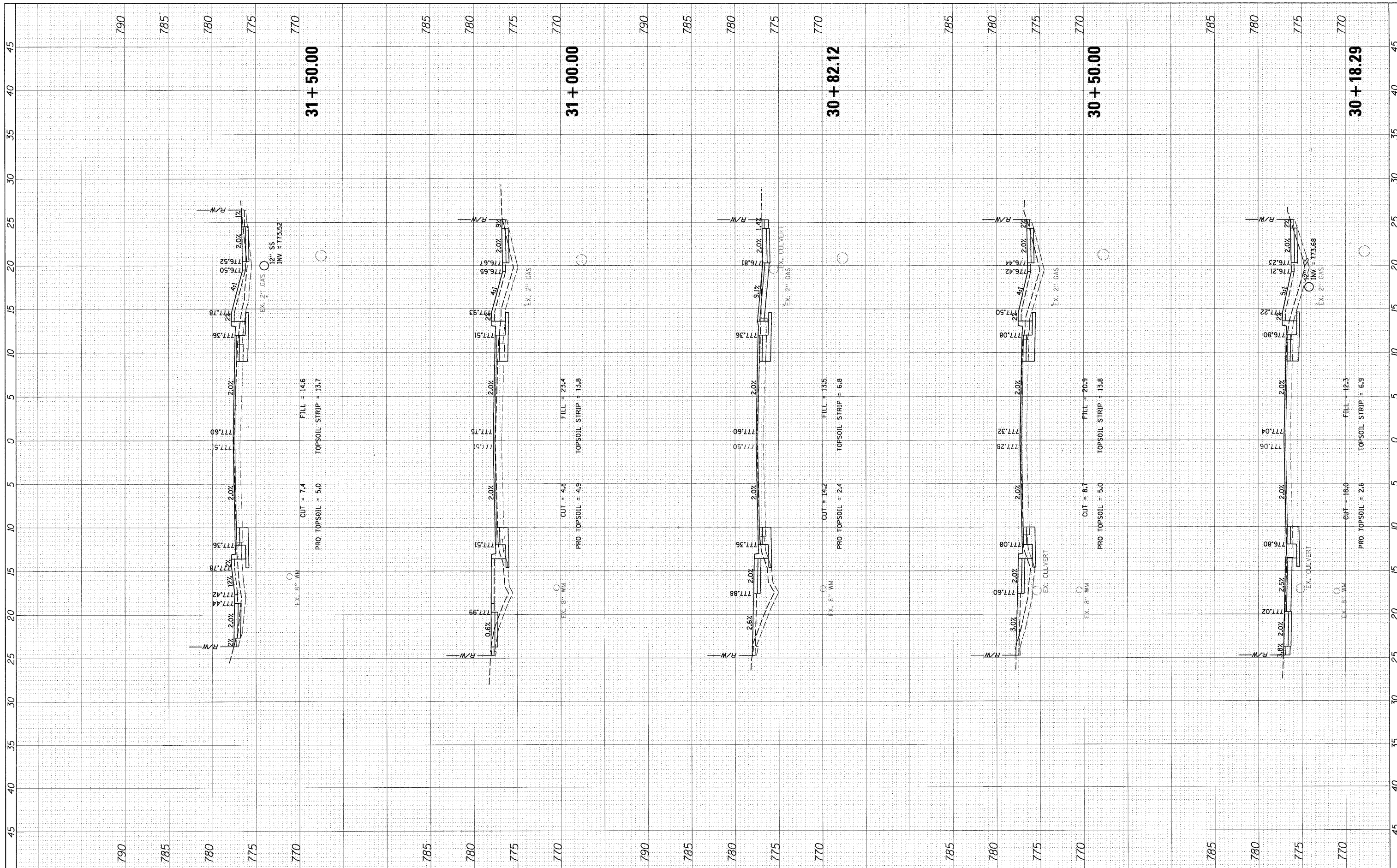
**CROSS SECTIONS
 HIGHLAND ROAD**

SCALE: 1" = 5' SHEET NO. OF SHEETS STA. 28+50.00 TO STA. 30+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	38
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

DATE	BY
DESIGNED	PLOTTED
CHECKED	TEMPLATE
NO.	AREAS CHECKED

DATE	BY
DESIGNED	PLOTTED
CHECKED	TEMPLATE
NO.	AREAS CHECKED



FILE NAME = PXS_HIGHLAND.sht

USER NAME = mwarder

DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

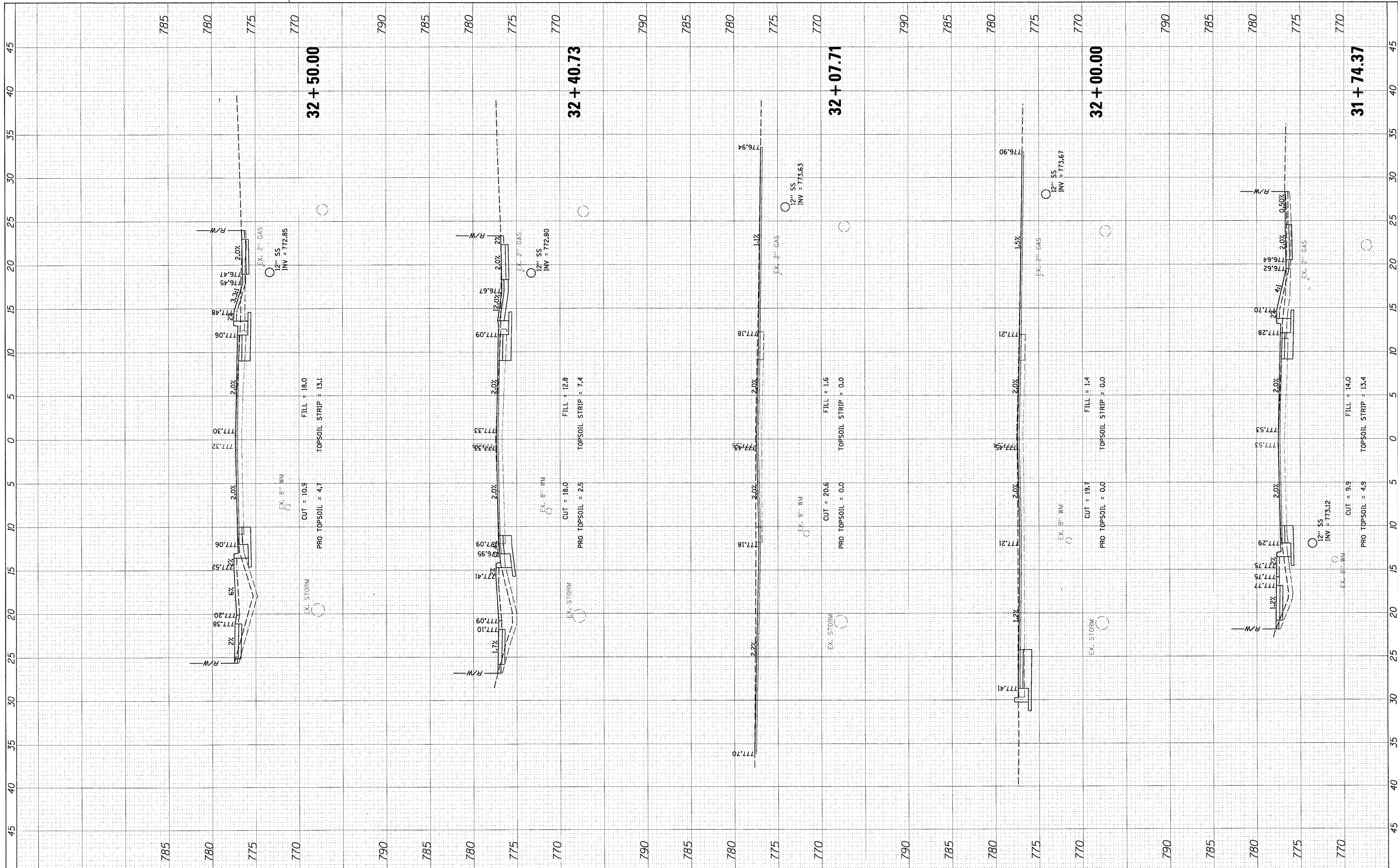
**CROSS SECTIONS
 HIGHLAND ROAD**

SCALE: 1" = 5' SHEET NO. OF SHEETS STA. 30+18.29 TO STA. 31+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	39
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____

ORIGINAL SURVEY	DATE
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____



FILE NAME = PXS_HIGHLAND.sht

USER NAME = mvorderer
 PLOT SCALE = 5'
 PLOT DATE = 3/27/2012

DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

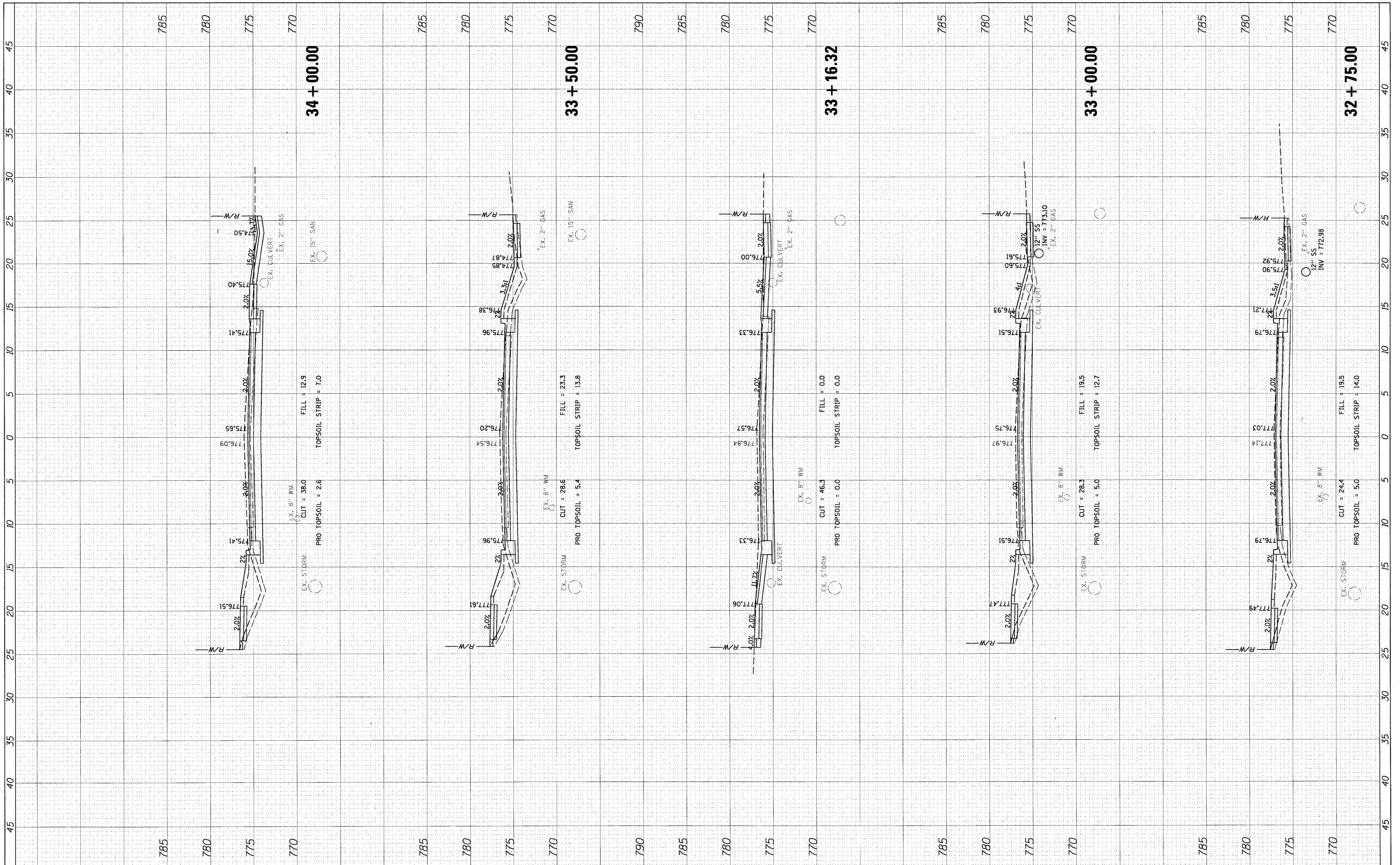
**CROSS SECTIONS
 HIGHLAND ROAD**

SCALE: 1" = 5' SHEET NO. OF SHEETS STA. 31+74.37 TO STA. 32+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	40
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS		
AREAS CHECKED		



FILE NAME = PXS_HIGHLAND.shx

USER NAME = mvorderer
 DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISIONS:
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 REVISION 2: -
 REVISION 3: -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

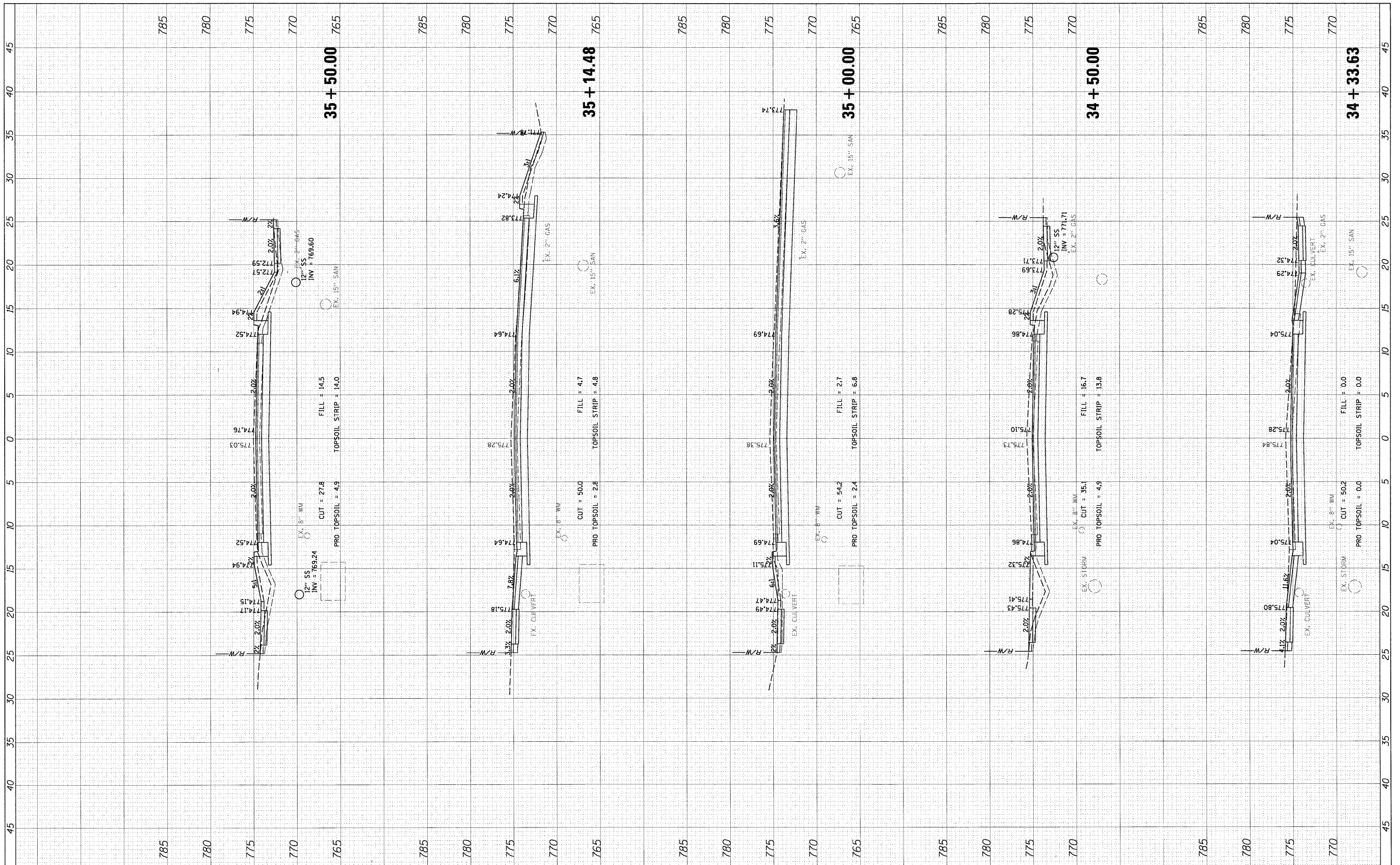
**CROSS SECTIONS
 HIGHLAND ROAD**

SCALE: 1" = 5'
 SHEET NO. OF SHEETS STA. 32+75.00 TO STA. 34+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	41
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	NO.
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	NO.
TEMPLATE	
AREAS CHECKED	



FILE NAME = PXS.HIGHLAND.sht
 USER NAME = mborderer
 DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISD	-
REVISD	-
REVISD	-
REVISD	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

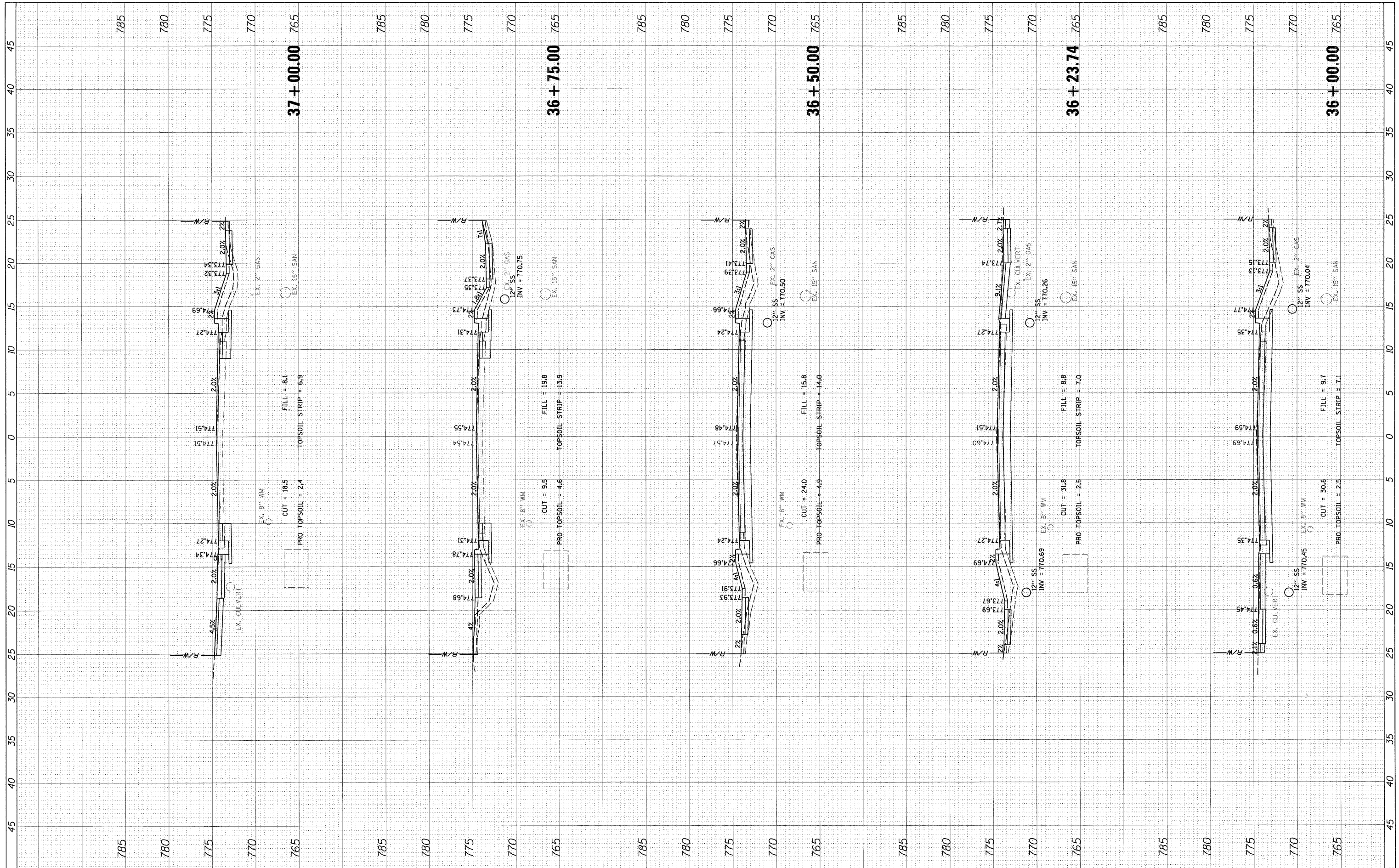
SCALE: 1" = 5'
 SHEET NO. OF SHEETS STA. 34+33.63 TO STA. 35+50.00

**CROSS SECTIONS
HIGHLAND ROAD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	42
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

FINAL	SURVEYED	BY	DATE
SURVEY	NOTE BOOK	NO.	
TEMPLATE	AREAS CHECKED		

ORIGINAL	SURVEYED	BY	DATE
SURVEY	NOTE BOOK	NO.	
TEMPLATE	AREAS CHECKED		



FILE NAME = PXS_HIGHLAND.sht
 USER NAME = mvorderer
 DESIGNED - SNS
 DRAWN - PWN
 CHECKED - MEK
 DATE - 09/02/2011

REVISIONS:
 REVISED -
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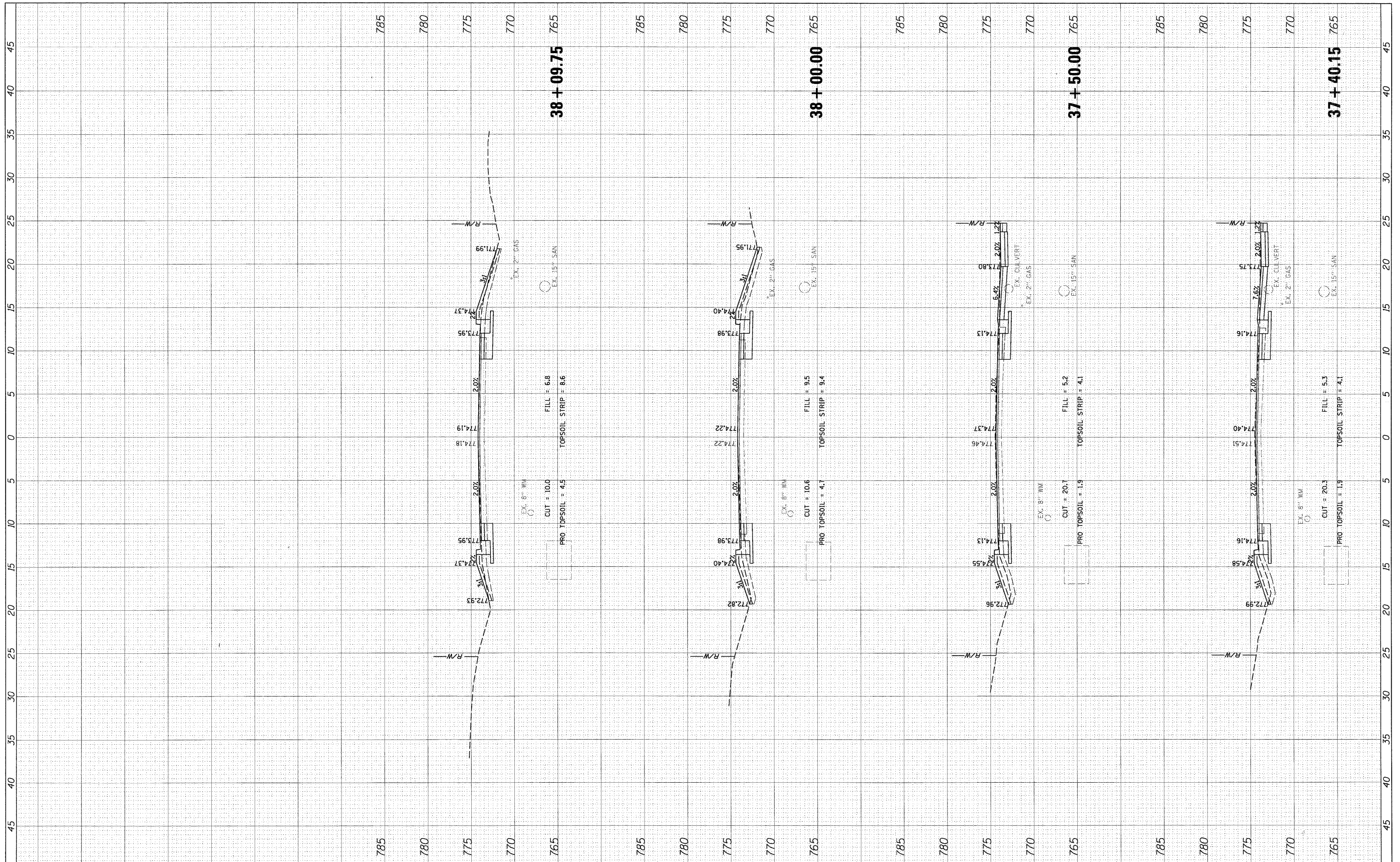
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 HIGHLAND ROAD**
 SCALE: 1" = 5'
 SHEET NO. OF SHEETS STA. 36+00.00 TO STA. 37+00.00

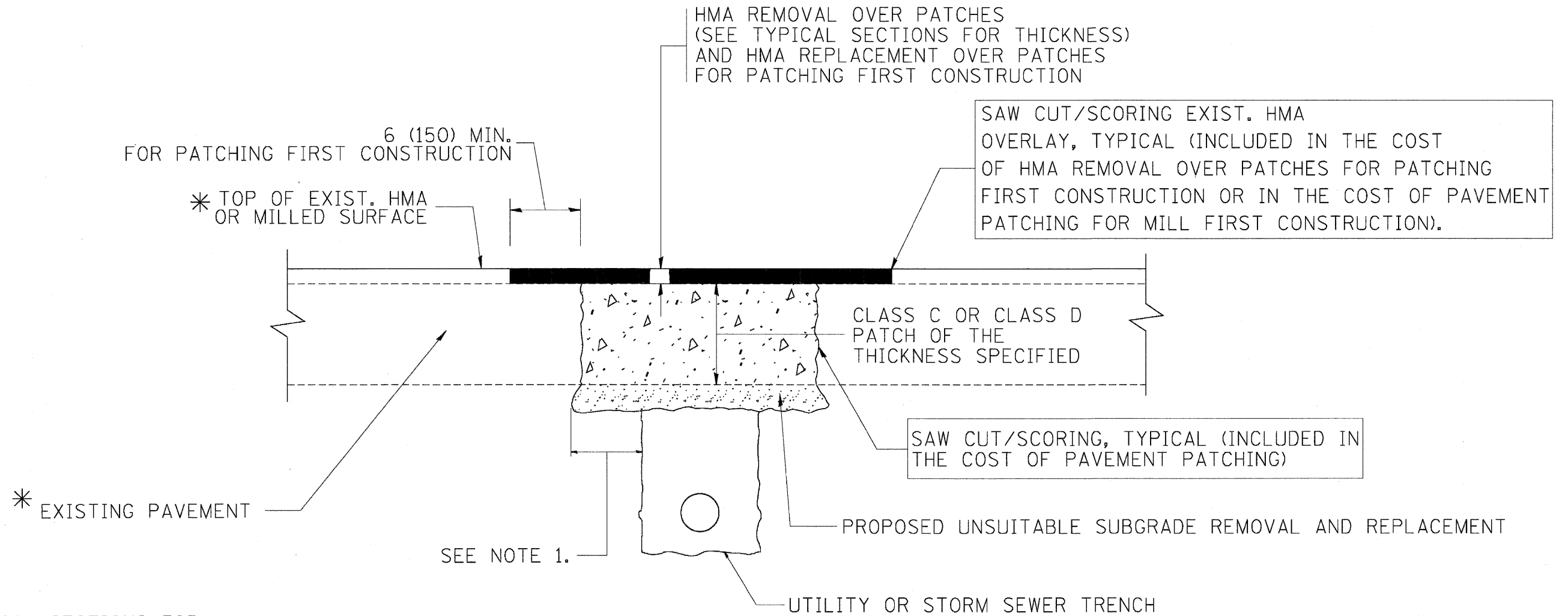
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	43
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

DATE	BY
SURVEYED	SURVEYED
NOTED	NOTED
TEMPLATE	TEMPLATE
AREAS	AREAS
CHECKED	CHECKED

DATE	BY
SURVEYED	SURVEYED
NOTED	NOTED
TEMPLATE	TEMPLATE
AREAS	AREAS
CHECKED	CHECKED



FILE NAME = PXS_HIGHLAND.sht	USER NAME = mworderer	DESIGNED - SNS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS HIGHLAND ROAD			F.A.U. RTE. 204	SECTION 12-00060-00-WR	COUNTY LAKE	TOTAL SHEETS 50	SHEET NO. 44
PLCT SCALE = 5'	PLCT DATE = 3/27/2012	DRAWN - PWN	REVISED -		SCALE: 1" = 5'	SHEET NO. OF SHEETS	STA. 37+40.15 TO STA. 38+09.75	CONTRACT NO. ILLINOIS FED. AID PROJECT				
		CHECKED - MEK	REVISED -									
		DATE - 09/02/2011	REVISED -									



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

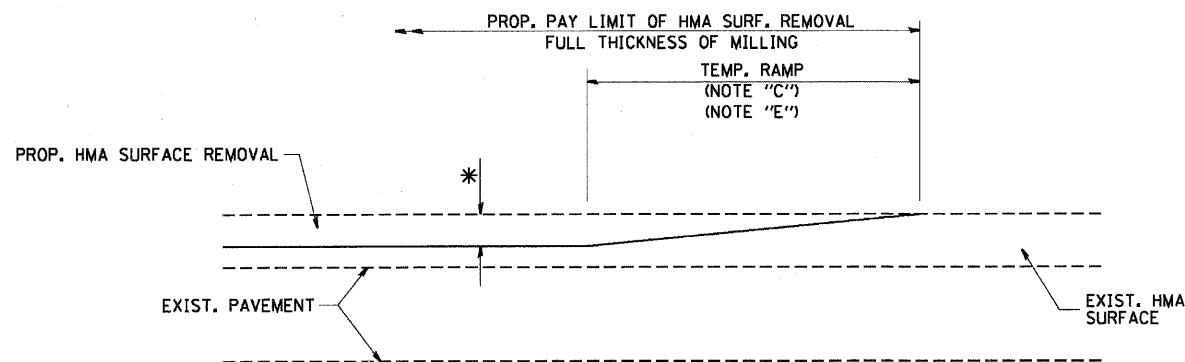
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

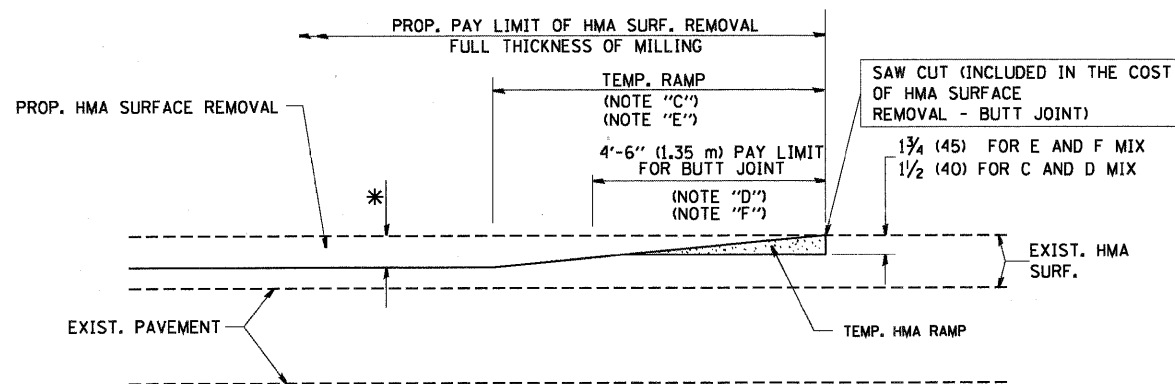
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bouerd1	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A. RTE. = 204	SECTION = 12-00060-00-WR	COUNTY = LAKE	TOTAL SHEETS = 50	SHEET NO. = 45
	PLOT SCALE = 50.000' / 1" IN.	CHECKED -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD400-04 (BD-22)		CONTRACT NO.		
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - R. BORO 09-04-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
			REVISED - K. ENG 10-27-08									



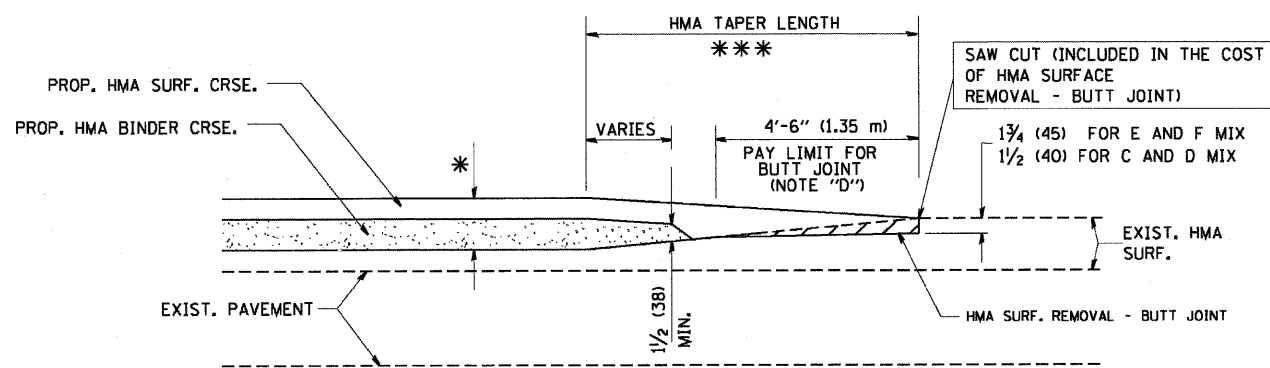
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

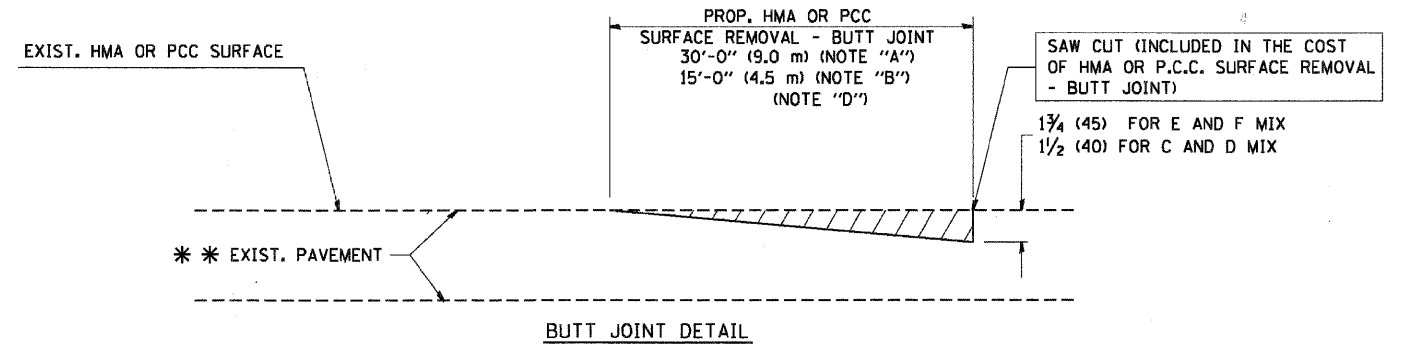


HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

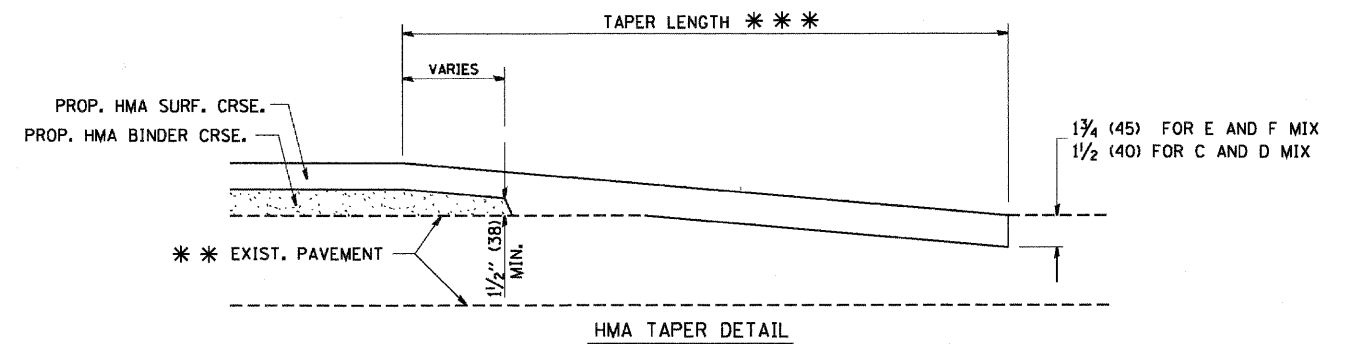
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\d\ststd\22x34\bd32.dgn

USER NAME = goglionobt
PLOT SCALE = 50.0000 "/ IN.
PLOT DATE = 1/4/2006

DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 06-13-90

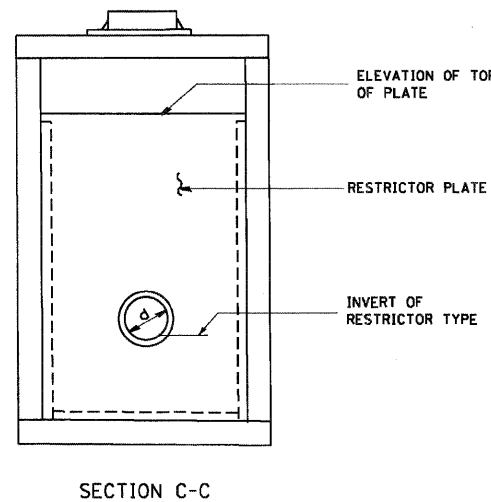
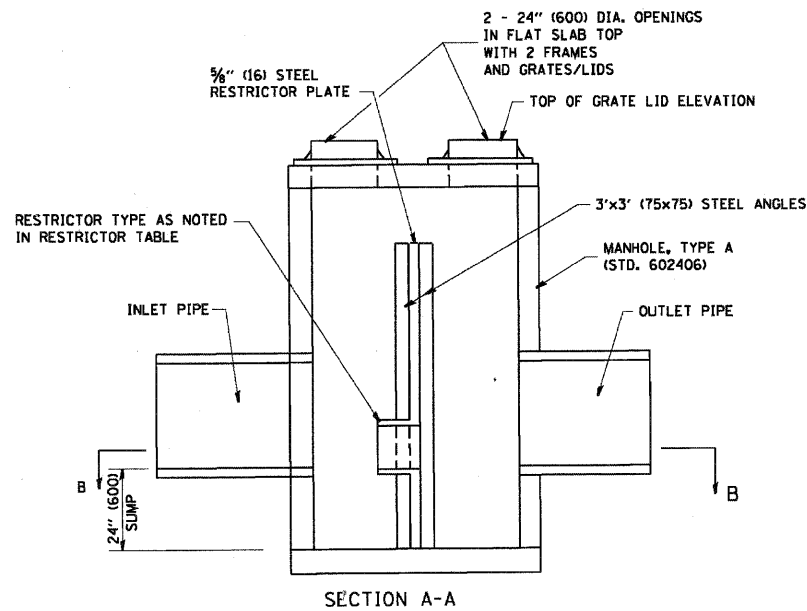
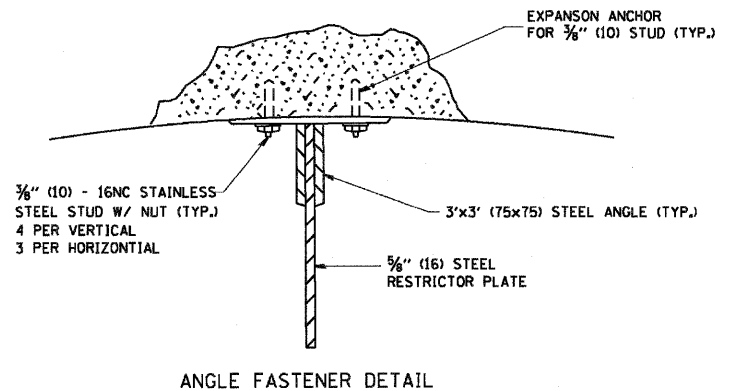
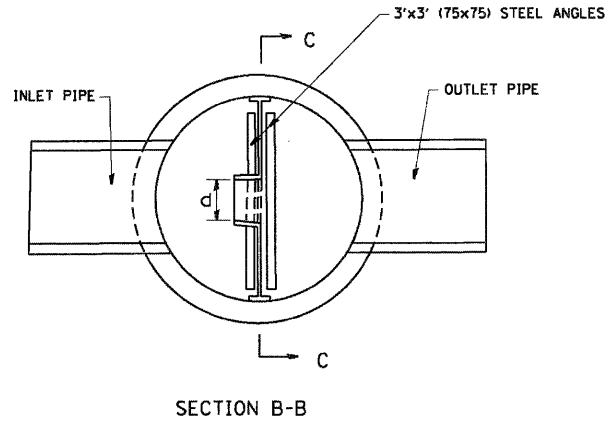
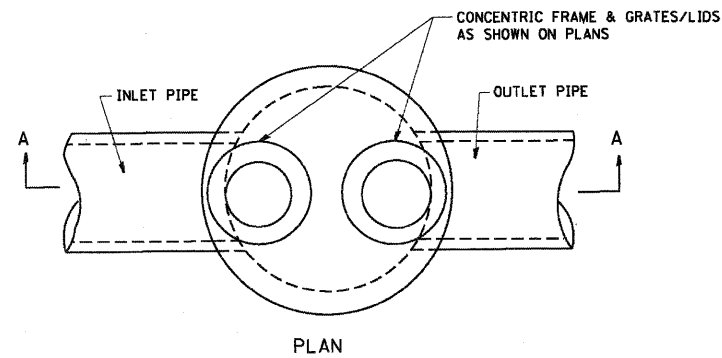
REVISED - R. SHAH 10-25-94
REVISED - A. ABBAS 03-21-97
REVISED - M. GOMEZ 04-06-01
REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

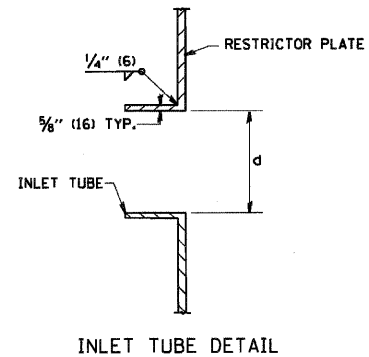
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	46
BD400-05 BD32		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

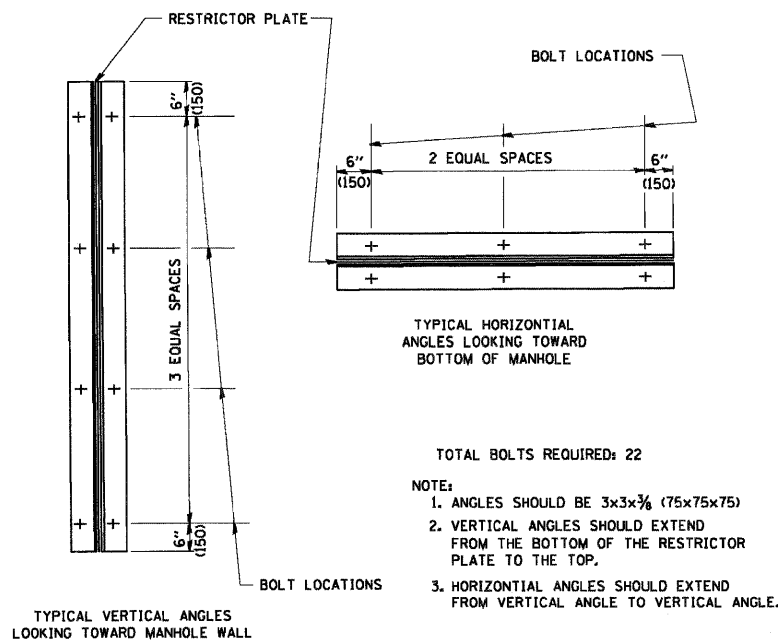


NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE I FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
17+45	6'	T1F OL (2)	2	6.6"	775.70	780.25
22+25	6'	T1F OL (2)	2	11.8"	771.90	775.51



STEEL ANGLE BOLTING DETAILS

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd12.dgn

USER NAME = goglionobt

PLOT SCALE = 50.000' / IN.

PLOT DATE = 1/4/2008

DESIGNED - R. SHAH

DRAWN -

CHECKED -

DATE - 09-09-94

REVISED - R. SHAH 10-25-94

REVISED - E. GOMEZ 08-28-00

REVISED - M. GOMEZ 01-08-01

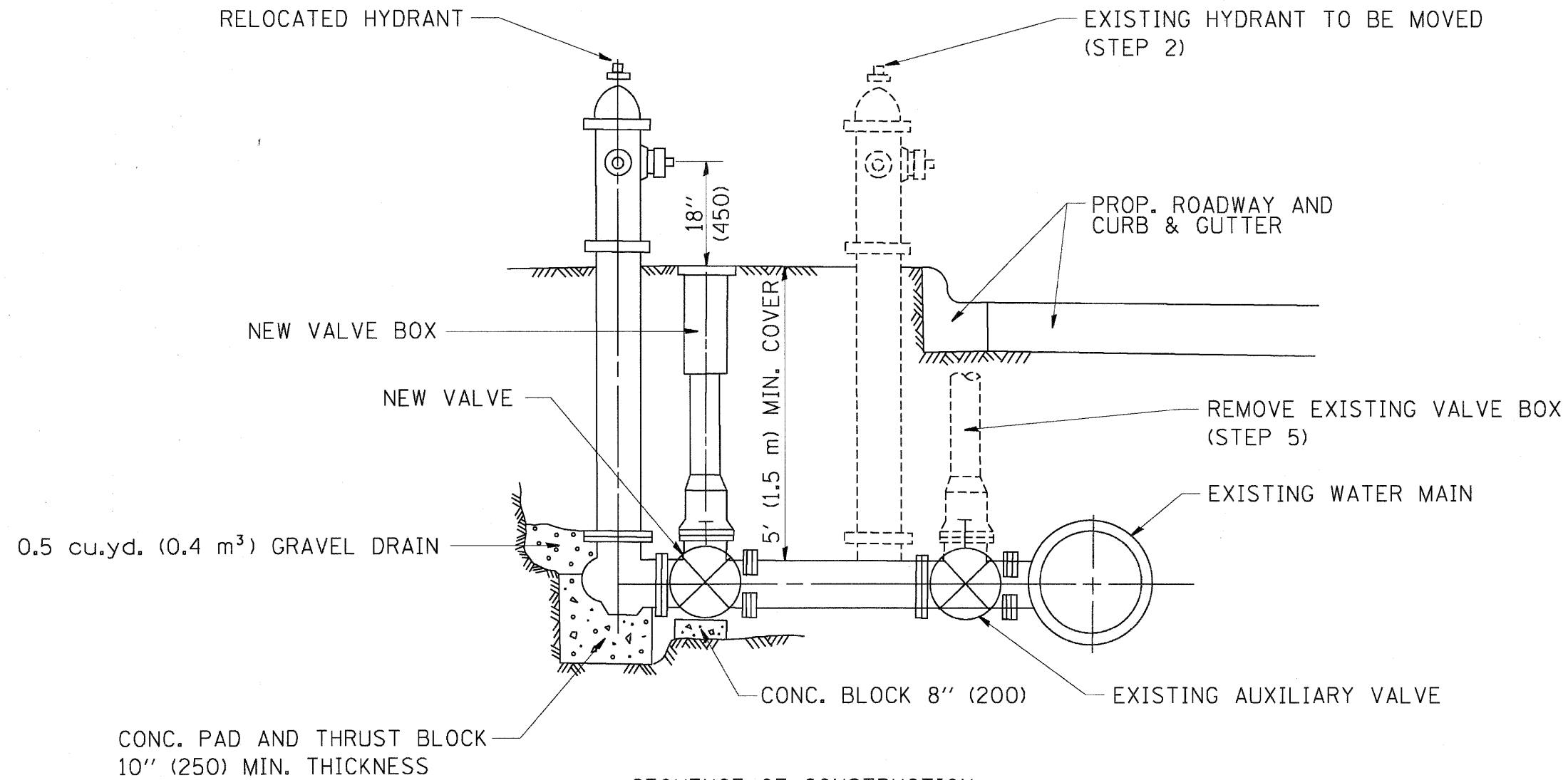
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH
RESTRICTOR PLATE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	47
BD600-04 (BD-12)		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SEQUENCE OF CONSTRUCTION:

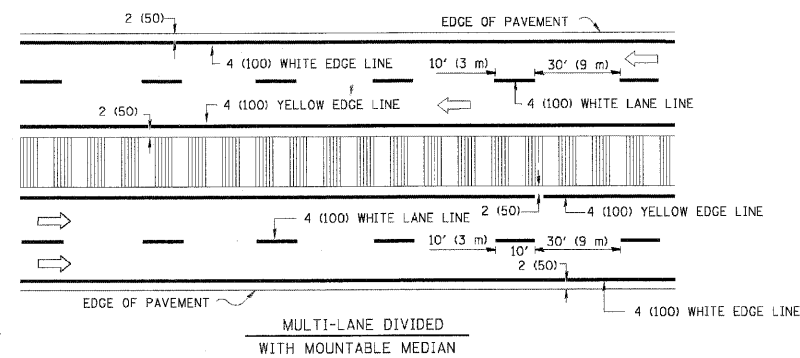
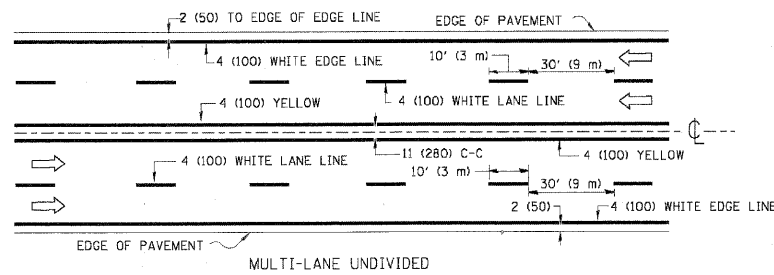
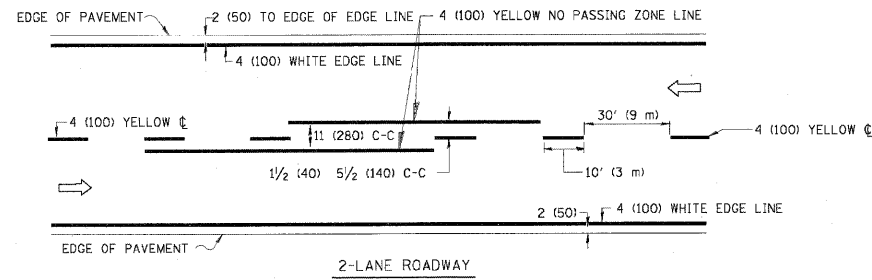
1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

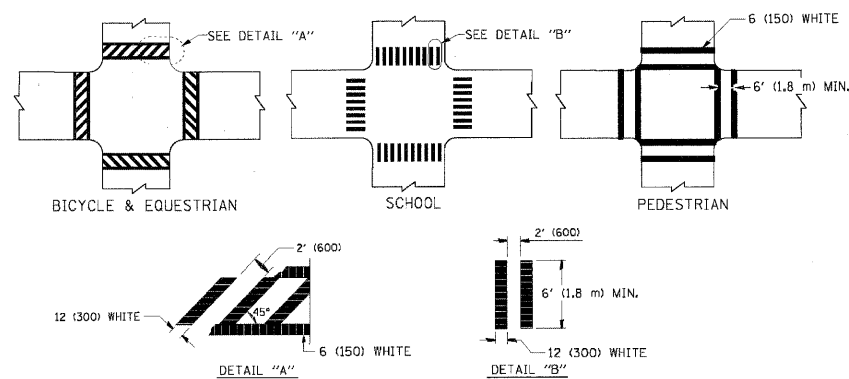
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd36.dgn	USER NAME = gaglienabt	DESIGNED -	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED		F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 52.0000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94				204	12-00060-00-WR	LAKE	50	48
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD-36		CONTRACT NO.		
							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

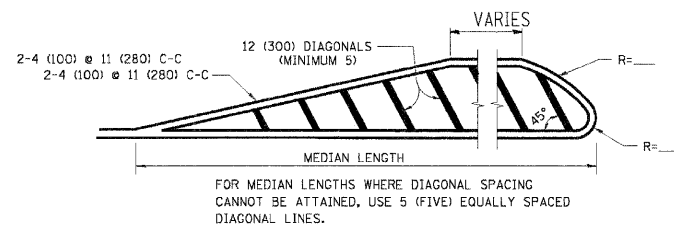
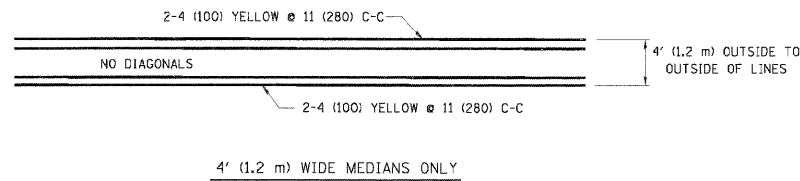


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

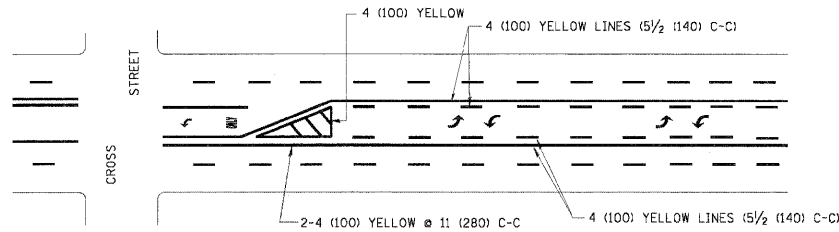


TYPICAL CROSSWALK MARKING

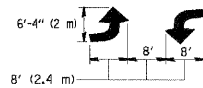


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

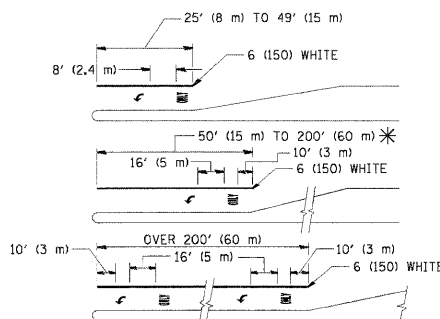


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

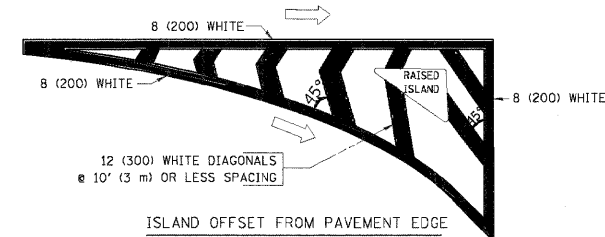
TYPICAL PAINTED MEDIAN MARKING



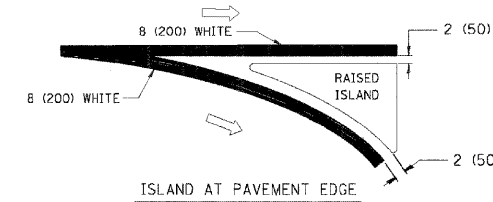
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS 18" (2.4m)	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drsvakosgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
ei:\work\p\wdot\drsvakosgn\0186315\td	3.dgn	DRAWN -	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 50.000 / IN.	CHECKED -	REVISOR -	REVISOR -
PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISOR -	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		204	12-00060-00-WR	LAKE	50	50
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. ' TO STA.	CONTRACT NO.	
		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	12-00060-00-WR	LAKE	50	50
TC-13		CONTRACT NO.		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				