

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	03-07118-00-BR	WILL	43	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 63156		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

88TH AVENUE (PEOTONE ROAD) OVER FORKED CREEK

SECTION NO: 03-07118-00-BR

PROJECT NO: BROS-00D1(633)

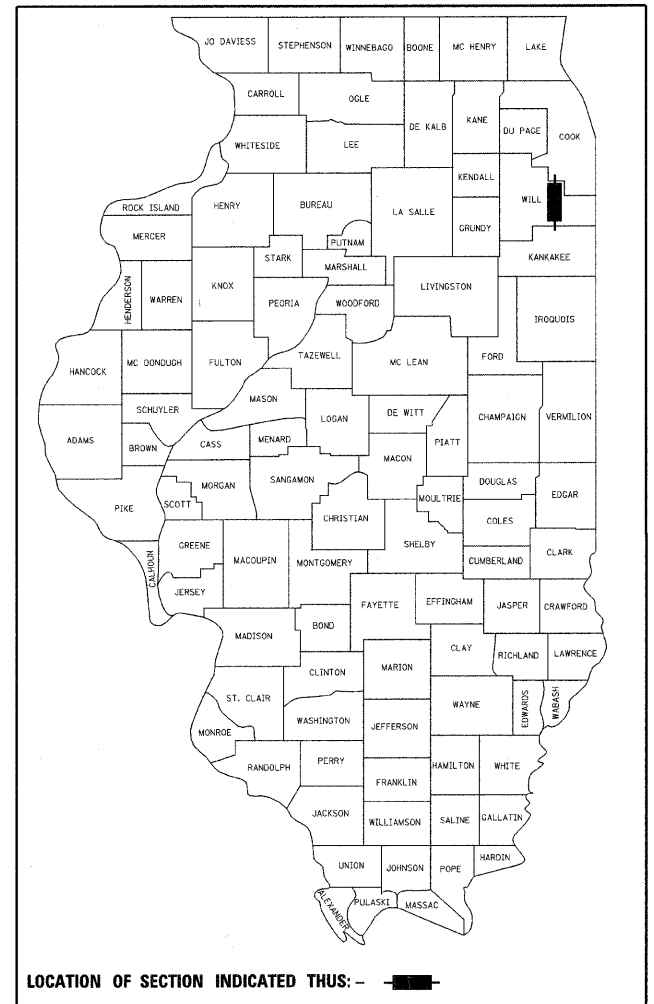
BRIDGE REPLACEMENT

GREEN GARDEN TOWNSHIP

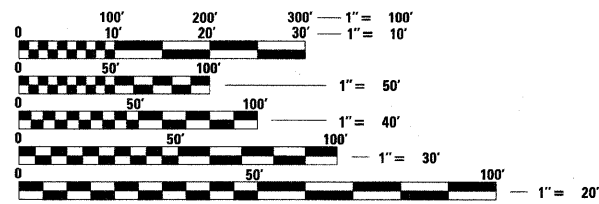
WILL COUNTY

JOB NO: C-91-094-04

DESIGN DESIGNATION: 900(30) LOCAL 2.25 (FD-20)
TRAFFIC DATA: 2004 ADT = 450 / 2030 ADT = 9,000
POSTED SPEED: 45 MPH

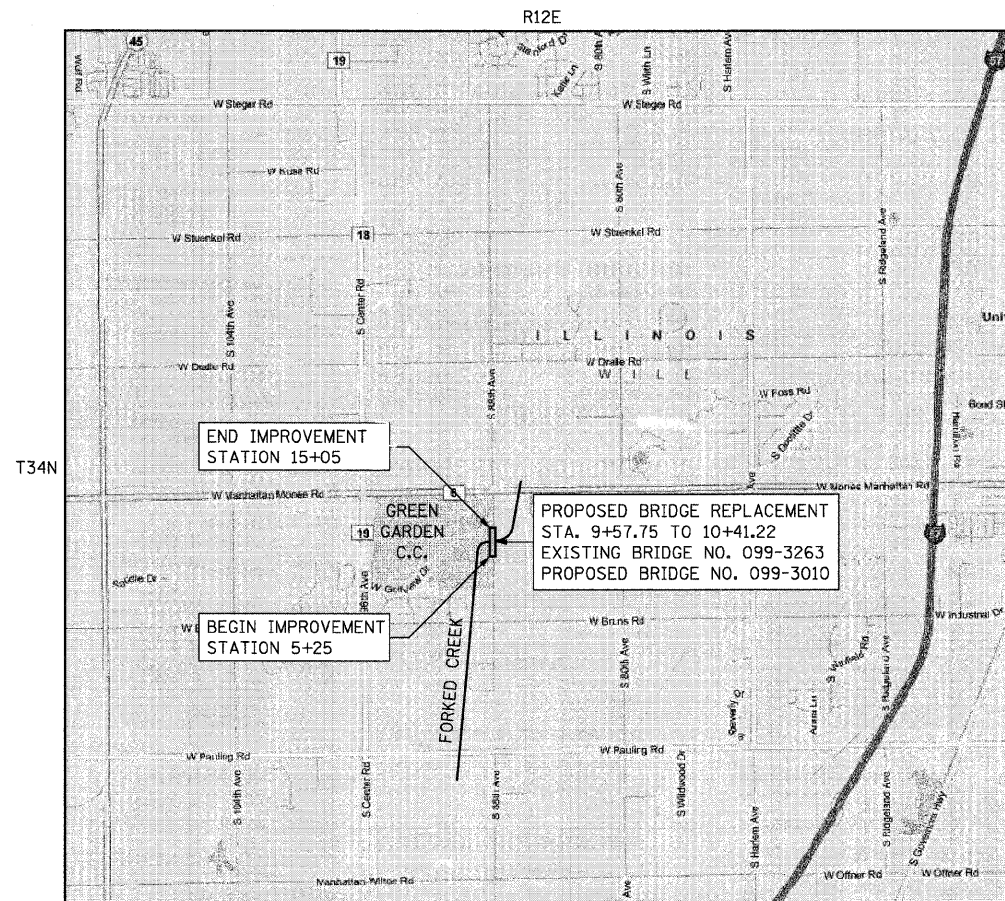


PROGRAM & OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL



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



LOCATION MAP
N.T.S.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED October 25 2010
Robert Massat
GREEN GARDEN TOWNSHIP, HIGHWAY COMMISSIONER

PASSED October 28 2010
Christophe
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW OCTOBER 29 2010
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 63156

GROSS LENGTH OF IMPROVEMENT = 980 FEET (0.2 MILES)
NET LENGTH OF IMPROVEMENT = 980 FEET (0.2 MILES)
(83.47 FEET BRIDGE)

INDEX OF SHEETS

NO.	SHEET TITLE
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS & GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6-7	SCHEDULE OF QUANTITIES
8	ALIGNMENT & TIES / EXISTING ROADWAY & REMOVALS
9	ROADWAY PLAN & PROFILE
10	DETOUR ROUTE & SIGNAGE
11	EROSION & SEDIMENT CONTROL PLAN
12-13	EROSION & SEDIMENT CONTROL DETAILS
14	LANDSCAPING PLAN
15	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
16	GENERAL PLAN & ELEVATION
17	BILL OF MATERIAL & GENERAL NOTES
18-19	DECK BEAM DETAILS
20-21	APPROACH SLAB DETAILS
22	RAILING ELEVATION & CONCRETE OVERLAY DETAILS
23	RAILING DETAILS
24	ABUTMENT DETAILS
25	SE MSE WALL PLAN & PROFILE
26	NE MSE WALL PLAN & PROFILE
27-28	MSE WALL DETAILS
29	METAL SHELL PILES
30	BAR SPLICER ASSEMBLY DETAILS
31-38	CROSS SECTIONS -- 88TH AVENUE
39-43	CROSS SECTIONS -- FORKED CREEK

STATE STANDARDS

NO.	TITLE
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
630001-09	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-06	TRAFFIC BARRIER TERMINAL, TYPE 6A
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT-OF-WAY MARKERS
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-02	TYPICAL PAVEMENT MARKINGS

DISTRICT ONE DETAILS

NO.	TITLE
TC 13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

- | NO. | NOTE |
|-----|---|
| 1. | ANY REFERENCE TO THE "STANDARD SPECIFICATIONS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS, ADOPTED JANUARY 1, 2007 AND THE LATEST EDITION OF THE IDOT SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS. |
| 2. | BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. FORTY-EIGHT (48) HOURS OF NOTIFICATION IS REQUIRED. |
| 3. | THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE ILLINOIS DEPARTMENT OF TRANSPORTATION, GREEN GARDEN TOWNSHIP AND THE WILL COUNTY DIVISION OF HIGHWAYS. |
| 4. | THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON TOWNSHIP PROPERTY WITHOUT WRITTEN PERMISSION FROM THE TOWNSHIP. |
| 5. | TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED. |
| 6. | THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT MIX ASPHALT (HMA) LIFTS. |
| 7. | BASIS OF DESIGN AND QUANTITY CALCULATIONS FOR HOT-MIX ASPHALT MIXTURES IS 112 LBS/SY/IN. |
| 8. | INSTALLATION, OPERATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL DETAILS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, IDOT STATE STANDARD DETAILS AND THE ILLINOIS URBAN MANUAL BY THE USDA NATURAL RESOURCE CONSERVATION SERVICE. |

COMMITMENTS

- | NO. | COMMITMENT | NO. | COMMITMENT |
|-----|--|-----|---|
| 1. | THE CONTRACTOR IS REQUIRED TO NOTIFY THE SHERIFF'S OFFICE AS TO THE START OF CONSTRUCTION, CHANGES TO THE CONSTRUCTION SCHEDULE OF CHANGES TO THE DETOUR.

SHERIFF PAUL J. KAUPAS
WILL COUNTY SHERIFF
14. W. JEFFERSON ST.
JOLIET, IL 60432
(815) 727-8895 | 3. | THE CONTRACTOR SHALL COMPLETE THE SOIL EROSION AND SEDIMENT CONTROL INFORMATION FORM AND RETURN IT TO THE U.S. ARMY CORPS OF ENGINEERS (USACE) -- CHICAGO REGIONAL OFFICE PRIOR TO STARTING CONSTRUCTION. |
| 2. | THE CONTRACTOR IS REQUIRED TO NOTIFY THE MONEE FIRE DEPARTMENT AS TO THE START OF CONSTRUCTION, CHANGES TO THE CONSTRUCTION SCHEDULE OF CHANGES TO THE DETOUR.

CHIEF CARL NIELAND
MONEE FIRE DEPARTMENT
25707 S. HARLEM AVE.
MONEE, IL 60449
(708) 235-0471 | 4. | THE CONTRACTOR SHALL COMPLETE AND RETURN THE FIELD INSPECTION CHECKLIST TO THE USACE -- CHICAGO REGIONAL OFFICE ON A WEEKLY BASIS DURING CONSTRUCTION. |

PAY ITEM NUMBER	PAY ITEM NAME	UNIT	TOTAL	RECONSTRUCTION, NO CAPACITY ADDED	BRIDGE REPLACEMENT, NO CAPACITY ADDED
				0004	0011
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	82	82	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	42	42	
20200100	EARTH EXCAVATION	CU YD	1547	1547	
20300100	CHANNEL EXCAVATION	CU YD	1011		1011
20400800	FURNISHED EXCAVATION	CU YD	747	747	
* 21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	583	583	
* 25000210	SEEDING, CLASS 2A	ACRE	0.6	0.6	
* 25000300	SEEDING, CLASS 3	ACRE	0.1	0.1	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	63	63	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	63	63	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	63	63	
* 25100115	MULCH, METHOD 2	ACRE	0.7	0.7	
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	70	70	
28000305	TEMPORARY DITCH CHECKS	FOOT	120	120	
28000400	PERIMETER EROSION BARRIER	FOOT	2261	2261	
28100107	STONE RIPRAP, CLASS A4	SQ YD	347		347
28200200	FILTER FABRIC	SQ YD	347		347
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	5748	5748	
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	994	994	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	191	191	
42001300	PROTECTIVE COAT	SQ YD	495		495
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	533	533	
44000100	PAVEMENT REMOVAL	SQ YD	1949	1949	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	305	305	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	789	789	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	20	20	
50200100	STRUCTURE EXCAVATION	CU YD	595		595
50300225	CONCRETE STRUCTURES	CU YD	50.2		50.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	307.5		307.5
50300260	BRIDGE DECK GROOVING	SQ YD	465		465
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	2542		2542
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	43510		43510
50800515	BAR SPLICERS	EACH	64		64
* 50901050	STEEL RAILING, TYPE SM	FOOT	661		661
51200956	FURNISHING METAL SHELL PILES 12" X 0.179"	FOOT	910		910

* SPECIALTY ITEM

FILE NAME =	USER NAME = *USER*	DESIGNED - PFR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)	SUMMARY OF QUANTITIES (SHEET 1 OF 2)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - PFR	REVISED -					N/A	03-07118-00-BR	WILL	43	3
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = *SCALE*	CHECKED - KPS	REVISED -		SCALE: N.T.S.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63156			
	PLOT DATE = 10-26-2010	DATE - 10/27/10	REVISED -									

PAY ITEM NUMBER	PAY ITEM NAME	UNIT	TOTAL	RECONSTRUCTION, NO CAPACITY ADDED		BRIDGE REPLACEMENT, NO CAPACITY ADDED	
				0004	0011	0004	0011
51202305	DRIVING PILES	FOOT	910			910	
51203200	TEST PILE METAL SHELLS	EACH	2			2	
51204650	PILE SHOES	EACH	16			16	
51500100	NAME PLATES	EACH	1			1	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	38			38	
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2			2	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	425		425		
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4		4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4		4		
* X 6640560	CHAIN LINK FENCE, 6' (SPECIAL)	FOOT	442		442		
X 6440300	CHAIN LINK FENCE REMOVAL	FOOT	455		455		
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1			1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12		12		
67100100	MOBILIZATION	L SUM	1		1		
XX006119	TRAFFIC CONTROL AND PROTECTION (DETOUR)	L SUM	1		1		
72000100	SIGN PANEL - TYPE 1	SQ FT	7		7		
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	31		31		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3356		3356		
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	564		564		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	16		16		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4		
* A2000620	TREE, ACER PLATANOIDES (NORWAY MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3		3		
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	49			49	
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	283			283	
XX004878	MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS	L SUM	1		1		
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	1916		1916		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1		
Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	2527			2527	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	93			93	
Z0076600	TRAINEES	hour	1000		1000		

* SPECIALTY ITEM

PAVEMENT REMOVAL TOTAL: 1949 SY

FROM STATION	WIDTH (FOOT)	TO STATION	WIDTH (FOOT)	AREA (SY)
5+25.00	22.90	7+00.15	23.85	455
7+00.15	23.85	8+99.34	22.50	513
8+99.34	22.50	9+82.21	16.13	178
10+17.54	17.03	12+06.93	24.09	
12+06.93	24.09	13+11.33	24.50	282
13+11.33	24.50	15+05.00	23.88	521

TREE REMOVAL (6 TO 15 UNITS DIAMETER) TOTAL: 82 UNITS

STATION	OFFSET	SIDE	DIAMETER (INCHES)	UNITS
10+26.93	21.62	LT	12	12
11+02.22	37.34	LT	12	12
11+30.03	37.77	LT	10	10
11+90.52	37.19	LT	12	12
12+20.23	37.3	LT	12	12
12+51.08	37.95	LT	12	12
12+81.82	37.78	LT	12	12

TREE REMOVAL (OVER 15 UNITS DIAMETER) TOTAL: 42 UNITS

STATION	OFFSET	SIDE	DIAMETER (INCHES)	UNITS
9+83.99	21.68	RT	42	42

PIPE CULVERT REMOVAL TOTAL: 20 FEET

FROM STATION	OFFSET	SIDE	TO STATION	OFFSET	SIDE	LENGTH (FEET)
10+75.53	23.37	LT	10+95.73	23.03	LT	20

CHAIN LINK FENCE REMOVAL TOTAL: 455 FEET

FROM STATION	OFFSET	SIDE	TO STATION	OFFSET	SIDE	LENGTH (FEET)
9+06.62	33.55	LT	9+74.69	33.54	LT	68
9+74.69	33.54	LT	9+83.41	33.66	LT	22
10+12.90	10.03	LT	10+03.81	33.54	LT	25
10+03.81	33.54	LT	13+43.64	33.64	LT	340

AGGREGATE SHOULDERS, TYPE B 6" TOTAL: 305 FEET

FROM STATION	SIDE	WIDTH (FOOT)	TO STATION	SIDE	LENGTH (FEET)
SW	7+17.21	7+37.92	3.00		3
	7+37.92	9+56.66	3.00		73
SE	6+51.31	6+71.31	3.00		3
	6+71.31	7+75.00	3.00		35
	7+75.00	7+78.00	0.00		1
NW	10+37.17	14+81.42	3.00		148
	14+81.42	15+01.42	0.00		3
NE	13+22.00	13+25.00	3.00		1
	13+25.00	14+28.75	3.00		35
	14+28.75	14+48.75	0.00		3

PERIMETER EROSION CONTROL BARRIER TOTAL: 2261 FEET

FROM STATION	OFFSET	SIDE	TO STATION	OFFSET	SIDE	LENGTH (FEET)
5+20.00	17.66	LT	5+20.00	32.00	LT	14
5+20.00	32.00	LT	9+02.75	32.55	LT	383
9+02.75	32.55	LT	9+36.39	35.00	LT	34
9+36.39	35.00	LT	9+73.18	74.00	LT	54
9+73.18	74.00	LT	9+79.84	74.00	LT	7
9+79.84	74.00	LT	9+86.31	13.31	LT	61
9+86.31	13.31	LT	9+96.16	32.00	RT	46
9+96.16	32.00	RT	5+20.00	32.00	RT	476
5+20.00	32.00	RT	5+20.00	13.39	RT	19
15+05.00	14.15	LT	15+05.00	32.00	LT	18
15+05.00	32.00	LT	13+50.00	32.00	LT	155
13+50.00	32.00	LT	13+00.00	36.00	LT	50
13+00.00	36.00	LT	11+99.00	36.00	LT	101
11+99.00	36.00	LT	11+99.00	44.00	LT	8
11+99.00	44.00	LT	10+51.65	44.00	LT	147
10+51.65	44.00	LT	9+99.68	74.00	LT	60
9+99.68	74.00	LT	9+88.42	74.00	LT	11
9+88.42	74.00	LT	10+10.37	11.88	RT	89
10+10.37	11.88	RT	10+11.17	32.00	RT	20
10+11.17	32.00	RT	15+05.00	32.00	RT	494
15+05.00	32.00	RT	15+05.00	17.90	RT	14

TEMPORARY EROSION CONTROL SEEDING TOTAL: 70 POUNDS

TYPE	AREA (ACRE)	DENSITY (LB/ACRE)	POUNDS
CLASS 2A SEEDING	0.6	100	60
CLASS 3 SEEDING	0.1	100	10

TEMPORARY DITCH CHECKS TOTAL: 120 FOOT

FROM STATION	SIDE	FOOT
6+00.00	LT	10
6+00.00	RT	10
8+00.00	LT	6
8+00.00	RT	13
9+50.00	LT	6
9+60.00	RT	13
10+30.00	LT	8
10+40.00	RT	12
12+00.00	LT	8
12+00.00	RT	12
14+00.00	LT	12
14+00.00	RT	10

HOT-MIX ASPHALT SHOULDERS 6" TOTAL: 789 FEET

FROM STATION	SIDE	WIDTH (FOOT)	TO STATION	SIDE	LENGTH (FEET)
SW	5+25.00	5+75.00	4.00		17
	5+75.00	9+57.36	4.00		170
SE	5+25.00	5+75.00	4.00		17
	5+75.00	9+62.30	4.00		172
NW	10+37.69	15+05.00	4.00		208
NE	10+42.64	15+05.00	4.00		205

EARTHWORK TABLE

FROM STATION	TO STATION	EARTH EXCAVATION (CU YD)	EXCAVATION USED IN EMBANKMENT* (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	TOPSOIL EXCAVATION & PLACEMENT (CU YD)
5+25.00	5+50.00	32.4	27.6	0.4	27.2	6.8
5+50.00	6+00.00	107.4	91.3	1.3	90.0	27.1
6+00.00	6+50.00	68.5	58.2	3.9	54.3	27.2
6+50.00	7+00.00	52.3	44.4	21.3	23.1	27.1
7+00.00	7+50.00	31.5	26.8	66.0	-39.2	26.6
7+50.00	8+00.00	44.7	38.0	99.0	-61.1	26.2
8+00.00	8+50.00	81.4	69.2	113.5	-44.3	26.6
8+50.00	9+00.00	79.9	67.9	150.9	-83.0	27.5
9+00.00	9+56.00	130.0	110.5	208.3	-97.8	42.3
9+56.00	9+64.00	21.0	17.8	20.3	-2.4	5.3
10+36.00	10+44.00	16.2	13.8	35.9	-22.1	4.2
10+44.00	11+00.00	169.5	144.1	299.4	-155.4	48.7
11+00.00	11+50.00	141.6	120.4	280.3	-159.9	46.0
11+50.00	12+00.00	126.0	107.1	252.5	-145.4	39.2
12+00.00	12+50.00	104.7	89.0	200.7	-111.8	35.0
12+50.00	13+00.00	88.7	75.4	142.0	-66.6	31.8
13+00.00	13+50.00	47.5	40.4	86.7	-46.3	32.0
13+50.00	14+00.00	28.0	23.8	47.3	-23.6	30.5
14+00.00	14+50.00	67.7	57.5	23.5	34.1	29.3
14+50.00	15+00.00	87.1	74.1	7.8	66.2	29.3
15+00.00	15+25.00	20.9	17.7	0.7	17.1	14.2
TOTALS		1547.0	1314.9	2062.0	-747.1	583.0

SHRINKAGE FACTOR = 15%

FURNISHED EXCAVATION (CU YD): 747.1

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 TOTAL: 191 TONS

FROM STATION	WIDTH (FOOT)	TO STATION	WIDTH (FOOT)	SURFACE AREA (SQ YD)	DEPTH (INCH)	TONS
5+25.00	24	8+29.48	24	812	2	91
11+70.52	24	15+05.00	24	892	2	100

DENSITY = 112 LBS/SY/IN

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TOTAL: 994 TONS

FROM STATION	TOP WIDTH (FOOT)	BOTTOM WIDTH (FOOT)	TO STATION	TOP WIDTH (FOOT)	BOTTOM WIDTH (FOOT)	AVG. SURF AREA (SQ YD)	DEPTH (INCH)	TONS
5+25.00	24	26	8+29.48	24	26	846	10	474
11+70.52	24	26	15+05.00	24	26	929	10	520

DENSITY = 112 LBS/SY/IN

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) TOTAL: 533 SY

FROM STATION	WIDTH (FOOT)	TO STATION	WIDTH (FOOT)	AREA (SY)
8+29.48	24.00	9+27.36	24.00	261
9+27.36	24.00	9+31.60	0.00	6
10+68.40	0.00	10+72.64	24.00	6
10+72.64	24.00	11+70.52	24.00	261

AGGREGATE SUBGRADE 12" TOTAL: 1916 SY

FROM STATION	WIDTH (FOOT)	TO STATION	WIDTH (FOOT)	AREA (SY)
5+25.00	27	8+29.48	27	913
11+70.52	27	15+05.00	27	1003

\\FS-004A\HW\VALU\T.D. TRANS. 07-22002-20745-008\1\CIVIL\CAD\01 DESIGN\IA TEND\SHEET\SC01A201.SHT
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FILE NAME =	USER NAME = #USER#	DESIGNED - PFR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)	SCHEDULE OF QUANTITIES (SHEET 1 OF 2)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - PFR	REVISED -			N/A	03-07118-00-BR	WILL	43	6	
PLOT SCALE = #SCALE#		CHECKED - KPS	REVISED -			CONTRACT NO. 63156					
PLOT DATE = 10-25-2010		DATE - 10/27/10	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



SEEDING, CLASS 2A TOTAL: 0.6 ACRES

ALIGN- MENT	FROM STATION	WIDTH (FEET)	TO STATION	WIDTH (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	AREA (SF)	AREA (ACRES)
88TH AVE	6+50.00	15.84	7+00.00	16.84	50.00	16.34	817	0.019
Left	7+00.00	16.84	7+50.00	14.00	50.00	15.42	771	0.018
	7+50.00	14.00	8+00.00	14.00	50.00	14.00	700	0.016
	8+00.00	14.00	8+50.00	14.00	50.00	14.00	700	0.016
	8+50.00	14.00	9+00.00	14.00	50.00	14.00	700	0.016
	9+00.00	14.00	9+56.00	38.22	56.00	26.11	1462	0.034
	10+36.00	35.20	10+44.00	30.56	8.00	32.88	263	0.006
	10+44.00	30.56	11+00.00	26.00	56.00	28.28	1584	0.036
	11+00.00	26.00	11+50.00	26.00	50.00	26.00	1300	0.030
	11+50.00	26.00	12+00.00	25.92	50.00	25.96	1298	0.030
	12+00.00	25.92	12+00.00	19.00	0.00	22.46	0	0.000
	12+00.00	19.00	12+50.00	19.00	50.00	19.00	950	0.022
	12+50.00	19.00	13+00.00	19.00	50.00	19.00	950	0.022
	13+00.00	19.00	13+50.00	14.00	50.00	16.50	825	0.019
	13+50.00	14.00	14+00.00	14.00	50.00	14.00	700	0.016
	14+00.00	14.00	14+50.00	14.94	50.00	14.47	724	0.017
	14+50.00	14.94	15+05.00	18.09	55.00	16.52	908	0.021
Right	6+50.00	18.16	7+00.00	14.16	50.00	16.16	808	0.019
	7+00.00	14.16	7+50.00	14.00	50.00	14.08	704	0.016
	7+50.00	14.00	8+00.00	14.00	50.00	14.00	700	0.016
	8+00.00	14.00	8+50.00	14.00	50.00	14.00	700	0.016
	8+50.00	14.00	9+00.00	14.00	50.00	14.00	700	0.016
	9+00.00	14.00	9+56.00	14.00	56.00	14.00	784	0.018
	9+56.00	14.00	9+64.00	14.00	8.00	14.00	112	0.003
	10+44.00	14.00	11+00.00	14.00	56.00	14.00	784	0.018
	11+00.00	14.00	11+50.00	14.00	50.00	14.00	700	0.016
	11+50.00	14.00	12+00.00	14.00	50.00	14.00	700	0.016
	12+00.00	14.00	12+50.00	14.00	50.00	14.00	700	0.016
	12+50.00	14.00	13+00.00	14.00	50.00	14.00	700	0.016
	13+00.00	14.00	13+50.00	14.00	50.00	14.00	700	0.016
	13+50.00	14.00	14+00.00	13.94	50.00	13.97	699	0.016
	14+00.00	13.94	14+50.00	16.06	50.00	15.00	750	0.017

SEEDING, CLASS 3 TOTAL: 0.1 ACRES

ALIGN- MENT	FROM STATION	WIDTH (FEET)	TO STATION	WIDTH (FEET)	LENGTH (FEET)	AVG. WIDTH (FEET)	AREA (SF)	AREA (ACRES)
88TH AVE	5+25.00	15.34	5+50.00	14.84	25.00	15.09	377	0.009
LEFT	5+50.00	14.84	6+00.00	14.84	50.00	14.84	742	0.017
	6+00.00	14.84	6+50.00	15.84	50.00	15.34	767	0.018
RIGHT	5+25.00	22.66	5+50.00	21.16	25.00	21.91	548	0.013
	5+50.00	21.16	6+00.00	19.16	50.00	20.16	1008	0.023
	6+00.00	19.16	6+50.00	18.16	50.00	18.66	933	0.021
	14+50.00	16.06	15+05.00	15.10	55.00	15.58	857	0.020

FERTILIZER NUTRIENTS

TYPE	CLASS 2A AREA (ACRE)	CLASS 3 AREA (ACRE)	TOTAL AREA (ACRE)	DENSITY (LB/ACRE)	POUNDS
NITROGEN	0.6	0.1	0.7	90	63
PHOSPHORUS	0.6	0.1	0.7	90	63
POTASSIUM	0.6	0.1	0.7	90	63

MULCH, METHOD 2 TOTAL: 0.7 ACRES

TYPE	AREA (ACRE)
CLASS 2A SEEDING	0.6
CLASS 3 SEEDING	0.1

TREE, ACER PLATANOIDES (NORWAY MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED TOTAL: 3 EACH

FROM STATION	OFFSET	SIDE	EACH
9+50.00	42	LT	1
11+00.00	40	RT	1
11+93.00	40	RT	1

CHAIN LINK FENCE, 6" (SPECIAL) TOTAL: 442 FEET

FROM STATION	SIDE	WIDTH (FOOT)	TO STATION	SIDE	LENGTH (FEET)
9+06.62	33.55	LT	9+36.00	36.00	29
9+36.00	36.00	LT	9+72.78	75.00	54
10+00.00	75.00	LT	10+51.96	45.00	60
10+51.96	45.00	LT	12+00.00	45.00	148
12+00.00	45.00	LT	12+00.00	38.00	7
12+00.00	38.00	LT	13+00.00	38.00	100
13+00.00	38.00	LT	13+43.64	33.64	44

THERMOPLASTIC PAVEMENT MARKING LINE - 4" TOTAL: 3356 FEET

FROM STATION	OFFSET	SIDE	TO STATION	OFFSET	SIDE	MULTI- PLIER	LENGTH (FEET)
WHITE	5+25.00	15.66	LT	7+08.03	12.00	1	183
LEFT	7+08.03	12.00	LT	9+27.36	12.00	1	219
EDGE	10+68.40	12.00	LT	15+05.00	12.00	1	437
DOUBLE	5+25.00	3.66	LT	7+08.03	0.00	2	366
YELLOW	7+08.03	0.00	-	9+29.48	0.00	2	443
CENTER	10+70.52	0.00	-	15+05.00	0.00	2	869
WHITE	5+25.00	8.34	RT	7+08.03	12.00	1	183
RIGHT	7+08.03	12.00	RT	9+31.60	12.00	1	224
EDGE	10+72.64	12.00	RT	15+05.00	12.00	1	432

EPOXY PAVEMENT MARKING LINE - 4" TOTAL: 564 FEET

FROM STATION	OFFSET	SIDE	TO STATION	OFFSET	SIDE	MULTI- PLIER	LENGTH (FEET)
WHITE	9+27.36	12.00	LT	10+68.40	12.00	1	141
DBL YLW	9+29.48	0.00	-	10+70.52	0.00	2	282
WHITE	9+31.60	12.00	RT	10+72.64	12.00	1	141

STEEL PLATE BEAM GUARD RAIL, TYPE A, 6' POSTS TOTAL: 425 FEET

QUADRANT	FROM STATION	TO STATION	LENGTH (FEET)
SW	7+97.92	8+97.92	100
SE	-	-	-
NW	10+96.42	14+21.42	325
NE	-	-	-

GUARDRAIL MARKERS TYPE A TOTAL: 16 EACH

FROM STATION	TO STATION	SIDE	LENGTH	EACH
7+62.58	9+56.66	LT	194.08	4
6+93.22	9+61.97	RT	268.75	4
10+37.69	13+06.80	LT	269.11	4
10+43.70	12+37.45	RT	193.75	4

NOTE: MINIMUM 4 MARKERS PER LENGTH

TRAFFIC BARRIER TERMINAL TYPE 6A TOTAL: 4 EA

QUADRANT	FROM STATION	TO STATION	EACH
SW	8+97.92	9+41.67	1
SE	7+31.25	7+75.00	1
NW	10+52.67	10+96.42	1
NE	13+25.00	13+68.75	1

TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT TOTAL: 4 EA

QUADRANT	FROM STATION	TO STATION	EACH
SW	7+47.92	7+97.92	1
SE	6+81.25	7+31.25	1
NW	14+21.42	14+71.42	1
NE	13+68.75	14+18.75	1

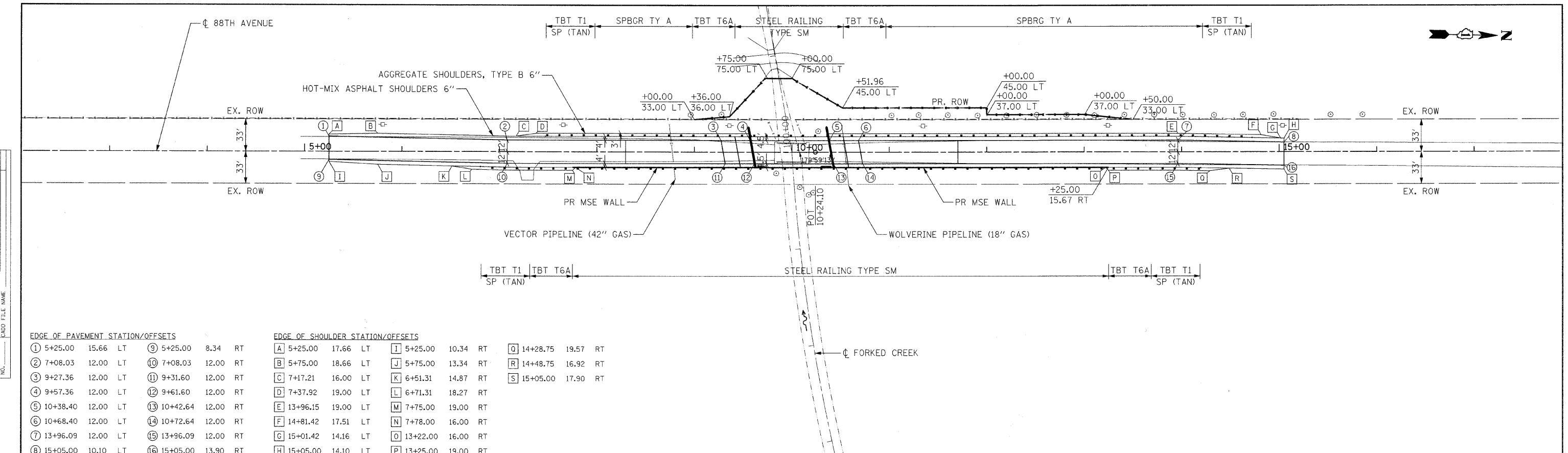
TERMINAL MARKER - DIRECT APPLIED TOTAL: 4 EACH

FROM STATION	SIDE	EACH
7+62.58	LT	1
6+93.50	RT	1
13+06.80	LT	1
12+37.45	RT	1

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 TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

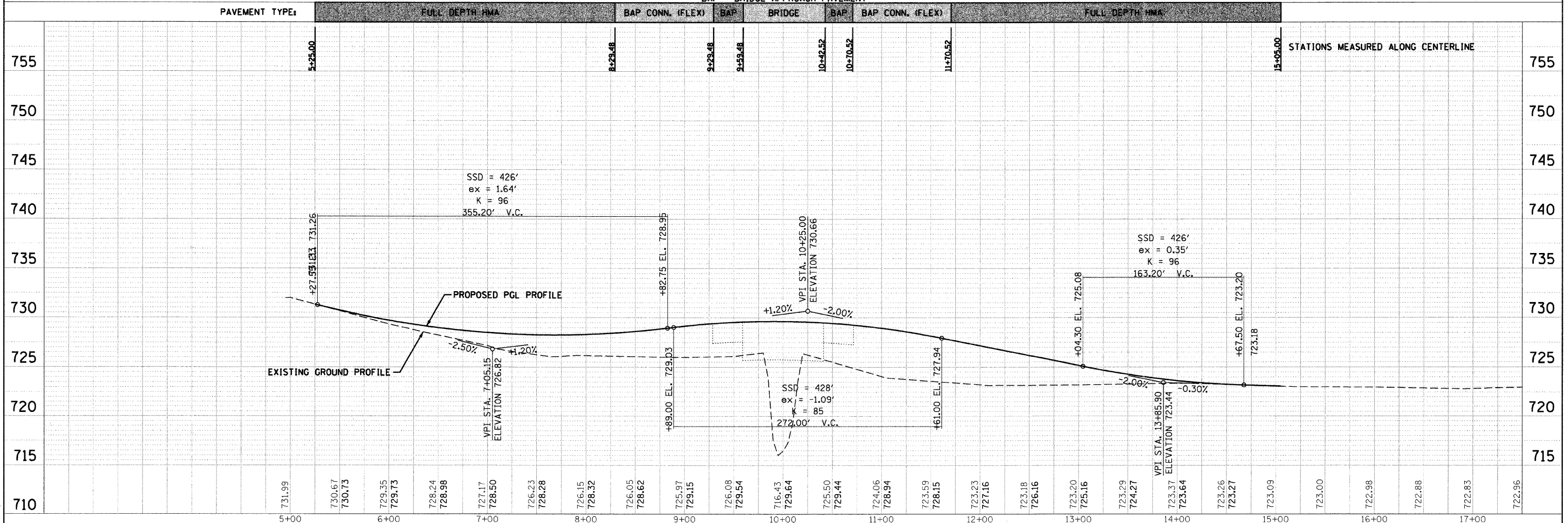
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BY	
PLAN	
SURVEYED	
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RT. OF WAY CHECKED	
NOTE BOOK NO.	
ROAD FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
GRADES CHECKED	
E.M. NOTED	
STRUCTURE NOTATIONS	
NOTE BOOK NO.	
ROAD FILE NAME	



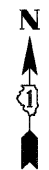
EDGE OF PAVEMENT STATION/OFFSETS				EDGE OF SHOULDER STATION/OFFSETS															
1	5+25.00	15.66	LT	9	5+25.00	8.34	RT	A	5+25.00	17.66	LT	I	5+25.00	10.34	RT	Q	14+28.75	19.57	RT
2	7+08.03	12.00	LT	10	7+08.03	12.00	RT	B	5+75.00	18.66	LT	J	5+75.00	13.34	RT	R	14+48.75	16.92	RT
3	9+27.36	12.00	LT	11	9+31.60	12.00	RT	C	7+17.21	16.00	LT	K	6+51.31	14.87	RT	S	15+05.00	17.90	RT
4	9+57.36	12.00	LT	12	9+61.60	12.00	RT	D	7+37.92	19.00	LT	L	6+71.31	18.27	RT				
5	10+38.40	12.00	LT	13	10+42.64	12.00	RT	E	13+96.15	19.00	LT	M	7+75.00	19.00	RT				
6	10+68.40	12.00	LT	14	10+72.64	12.00	RT	F	14+81.42	17.51	LT	N	7+78.00	16.00	RT				
7	13+96.09	12.00	LT	15	13+96.09	12.00	RT	G	15+01.42	14.16	LT	O	13+22.00	16.00	RT				
8	15+05.00	10.10	LT	16	15+05.00	13.90	RT	H	15+05.00	14.10	LT	P	13+25.00	19.00	RT				

BAP = BRIDGE APPROACH PAVEMENT



FILE NAME =	USER NAME = #USER#	DESIGNED - PFR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)	ROADWAY PLAN & PROFILE SCALE: HORIZ. 1"=50' VERT. 1"=5'	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLOT SCALE = #SCALE#	DRAWN - PFR	REVISED -			N/A	03-07118-00-BR	WILL	43	9	
	PLOT DATE = 10-25-2010	CHECKED - KPS	REVISED -			CONTRACT NO. 63156					
		DATE - 10/27/10	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS



SIGN LEGEND

R11-2 (48"x30")	M3-1-219 (21"x9")	M5-1R-2115 (21"x15")
R11-4 (60"x30")	M3-3-219 (21"x9")	M6-1L-2115 (21"x15")
M4-10(L) (48"x18")	(21"x18")	M6-1R-2115 (21"x15")
M4-10(R) (48"x18")	M6-3-2115 (21"x15")	CONSTRUCTION SIGN
M1-7-219 (21"x9")	M5-1L-2115 (21"x15")	TYPE III BARRICADE
W20-3(O)-48 (48"x48")	W20-3(O)-48 (48"x48")	W20-2(O)-48 (48"x48")

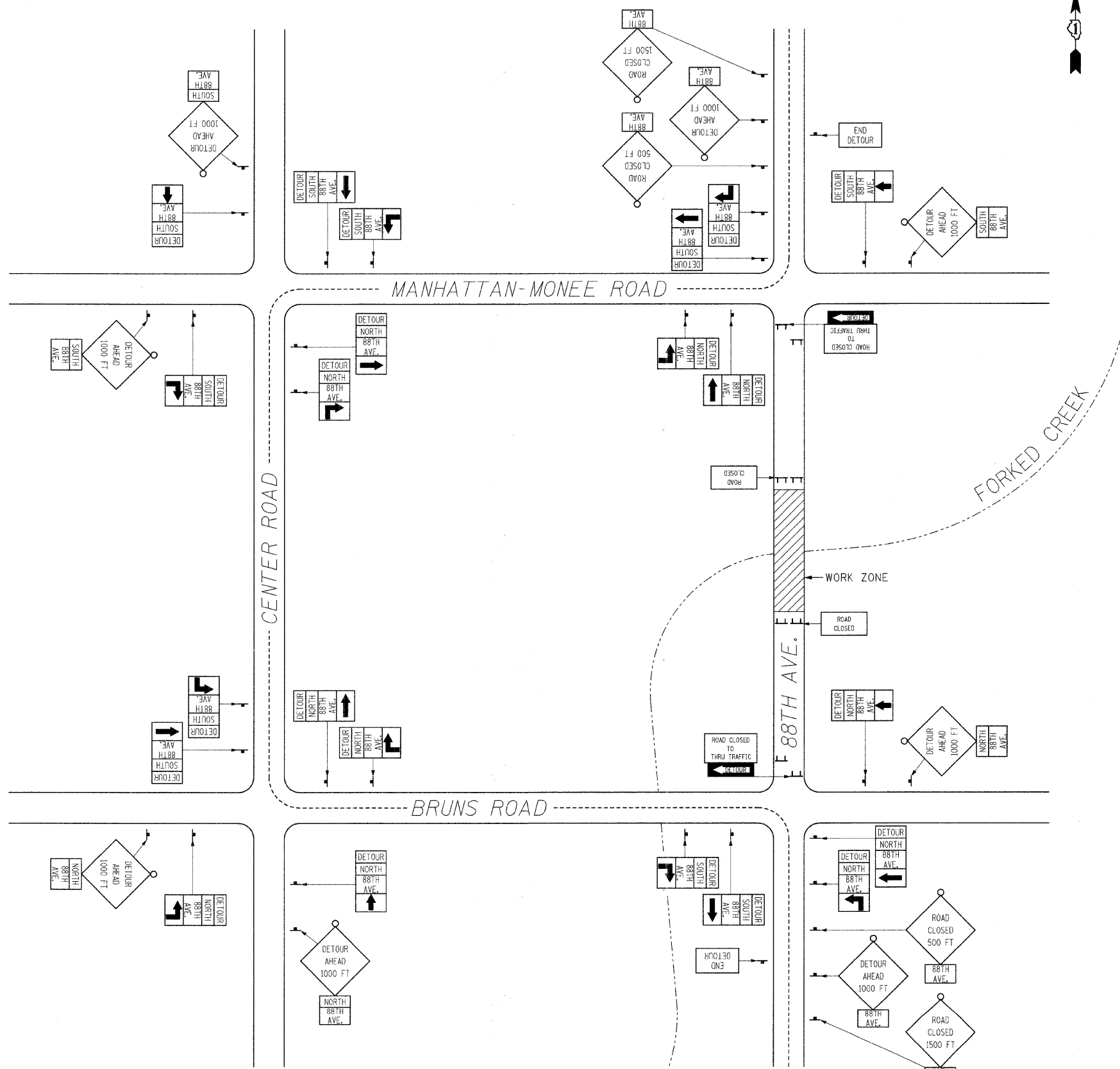
○ FLASHING BEACON PLACED ABOVE SIGN

DETOUR NOTES

- ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE COMMENCING CONSTRUCTION.
- FOR DISTANCES BETWEEN SIGNS, REFER TO IDOT DISTRICT ONE DETAIL TC-21.

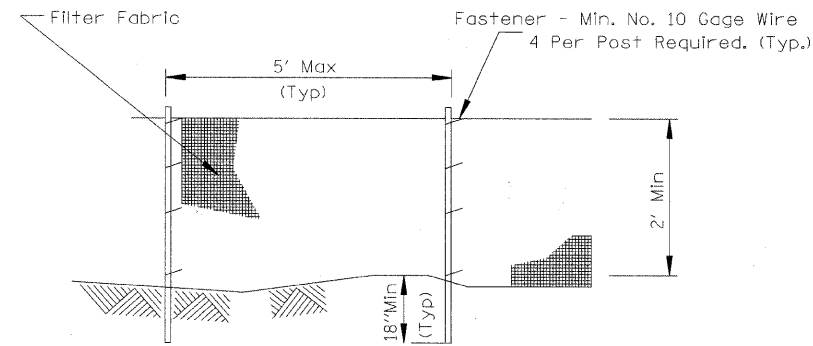
ROADWAY JURISDICTION

88TH AVENUE	GREEN GARDEN TOWNSHIP
BRUNS ROAD	GREEN GARDEN TOWNSHIP
CENTER ROAD	WILL COUNTY
MANHATTAN-MONEE ROAD	WILL COUNTY

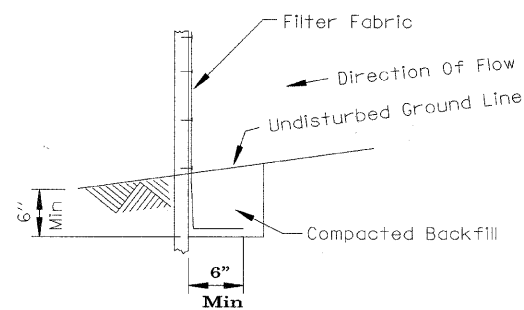


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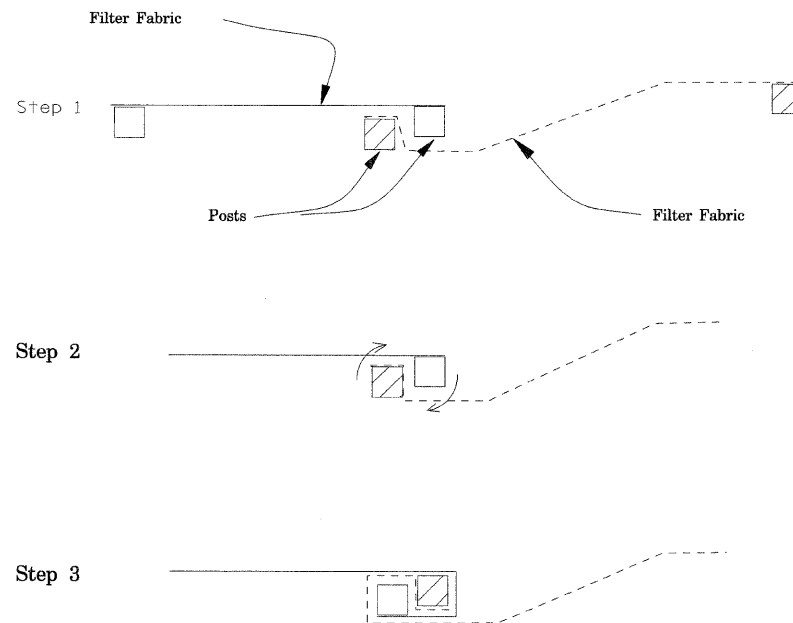
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#FILEL#		DRAWN - PFR	REVISED -			N/A	03-07118-00-BR	WILL	43	10	
PLOT SCALE = #SCALE#		CHECKED - KPS	REVISED -			CONTRACT NO. 63156					
PLOT DATE = 10-25-2010		DATE - 10/27/10	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					



ELEVATION



FABRIC ANCHOR DETAIL

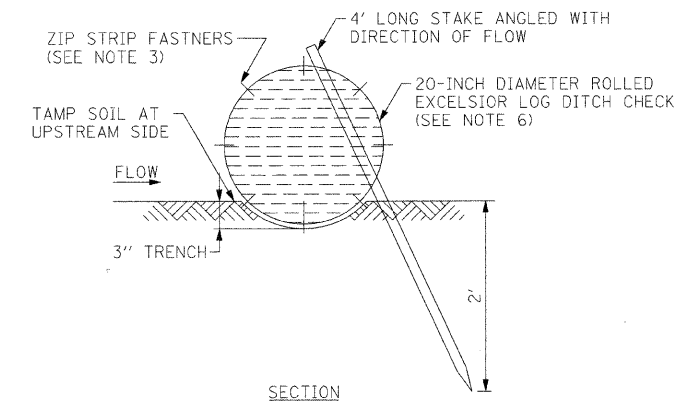


ATTACHING TWO SILT FENCES

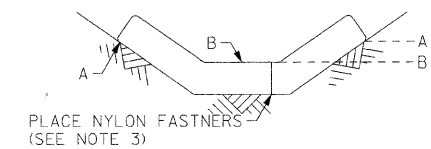
DETAIL NOTES:

1. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
4. ASSEMBLY NOTES:
 - A. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
 - B. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
 - C. DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.

PERIMETER EROSION BARRIER (SILT FILTER FENCE)



SECTION



PLACE NYLON FASTNERS (SEE NOTE 3)
POINT A MUST BE A MINIMUM 12" HIGHER THAN POINT B TO ENSURE WATER FLOWS OVER THE DITCH CHECK AND NOT AROUND THE ENDS.

ELEVATION

DETAIL NOTES:

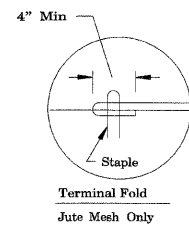
1. ROLLED EXCELSIOR LOG SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3" AND SOIL SHALL BE TAMPED AGAINST THE UPSTREAM SIDE TO ASSURE THAT STORM WATER IS FORCED THROUGH THE LOG, RATHER THAN UNDER IT.
2. STAKES SHALL BE 4' LONG, DRIVEN AT A SPACING OF 2' ON CENTER, 2' INTO THE GROUND. STAKES SHALL BE ENTWINED WITH THE MESH COVERING OF THE ROLL ON THE DOWNSTREAM SIDE AND ANGLED WITH THE DIRECTION OF FLOW. WOOD STAKES TO BE A MINIMUM OF 1" SQUARE. METAL STAKES SHALL BE A MINIMUM OF 1" DIAMETER.
3. WHEN MORE THAN ONE LOG IS REQUIRED TO SPAN THE DITCH, BUTT LOGS TIGHTLY TOGETHER END TO END AND FASTEN TOGETHER WITH A MINIMUM OF EIGHT EQUALLY SPACED ZIP STRIP NYLON FASTNERS.
4. ROLLED EXCELSIOR LOG DITCH CHECKS ARE SUPPLIED IN STANDARD 10' LENGTHS AND SHOULD NOT BE CUT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT SHALL BE REMOVED WHEN IT REACHES 50% OF ROLL HEIGHT.

TEMPORARY DITCH CHECK, ROLLED EXCELSIOR LOG

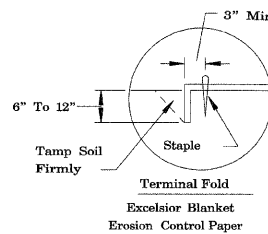
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FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - KPS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)	EROSION & SEDIMENT CONTROL DETAILS (1 OF 2)		F.A. RTE. N/A	SECTION 03-07118-00-BR	COUNTY WILL	TOTAL SHEETS 43	SHEET NO. 12	
PLOT SCALE = #SCALE#		DRAWN - PFR	REVISED -		SCALE: N.T.S.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 63156				
PLOT DATE = 10-25-2010		CHECKED - TKL	REVISED -									
		DATE - 10/27/10	REVISED -									

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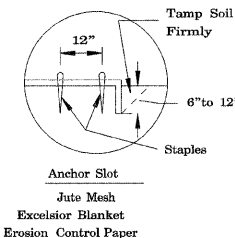


Terminal Fold
Jute Mesh Only



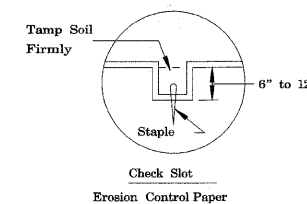
Terminal Fold
Excelsior Blanket
Erosion Control Paper

DETAIL 1



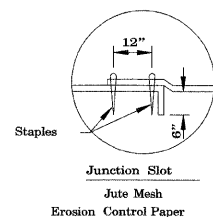
Anchor Slot
Jute Mesh
Excelsior Blanket
Erosion Control Paper

DETAIL 3

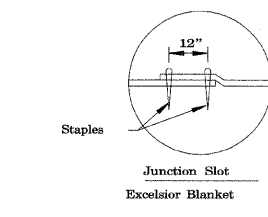


Check Slot
Erosion Control Paper

DETAIL 4

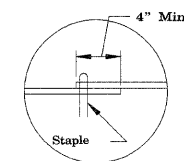


Junction Slot
Jute Mesh
Erosion Control Paper



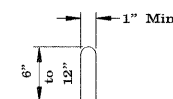
Junction Slot
Excelsior Blanket

DETAIL 2



Lap Joint
Erosion Control Paper
Excelsior Blanket Shall
Be Butted Together.

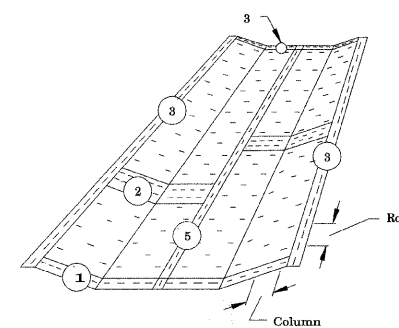
DETAIL 5



STAPLE DETAIL

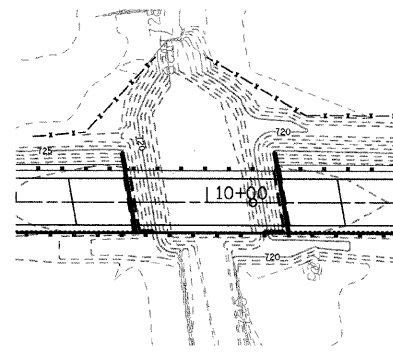
DETAIL NOTES:

- ON EROSION CONTROL PAPER, CHECK SLOTS, IN DITCH CHANNEL SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
- STAPLES ARE TO BE PLACED ALTERNATIVELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 8' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'x225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'x150' ROLL OF MATERIAL.
- EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE.
- ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.



EROSION CONTROL BLANKET

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED - KPS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)	EROSION & SEDIMENT CONTROL DETAILS (2 OF 2)	F.A. RTE. N/A	SECTION 03-07118-00-BR	COUNTY WILL	TOTAL SHEETS 43	SHEET NO. 13
	PLOT SCALE = \$SCALE\$	DRAWN - PFR	CHECKED - TKL			REVISED -	SCALE: N.T.S.	CONTRACT NO. 63156		
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = 10-25-2010	DATE - 10/27/10	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

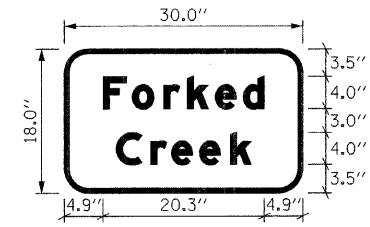


LEGEND
 EXISTING PROPOSED
 _____ 5' MAJOR CONTOUR
 - - - - - 1' MINOR CONTOUR

GRADING PLAN DETAIL
 AT THE CREEK

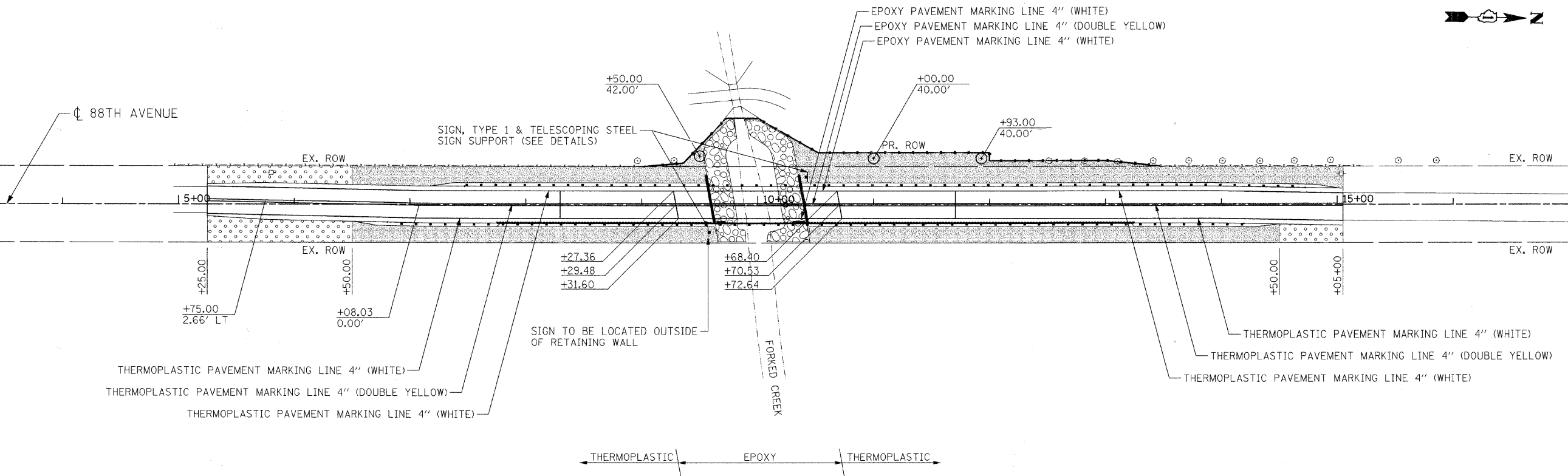
SIGN INFORMATION						
Mounting	TELESCOPING STEEL SIGN SUPPORT					
	ONE SUPPORT PER SIGN					
	SIDE	TOTAL LENGTH	SIGN HEIGHT	EOP TO SIGN	GROUND TO EOP	BURIED DEPTH
	LEFT	12.5'	1.5'	5'	1'	5'
	RIGHT	18.5'	1.5'	5'	7'	5'
Background	TYPE	REFLECTIVE				
	COLOR	GREEN				
Legend	TYPE	REFLECTIVE				
	COLOR	WHITE				
Border	TYPE	REFLECTIVE				
	COLOR	WHITE				
	RADIUS	3.0"				
	THICKNESS	0.5"				

NOTE: FINAL SIGN LOCATION TO BE APPROVED BY THE ENGINEER.



LETTER POSITIONS		LENGTH	SERIES/SIZE				
F	O	R	K	E	D	20.3	EM 2000 / 4"
4.9	8.5	12.5	15.5	19.0	22.5		
C	R	E	E	K		17.0	EM 2000 / 4"
6.5	10.9	13.5	17.0	20.9			

NOTE: ALL DIMENSIONS IN INCHES. LETTER POSITIONS MEASURED PANEL EDGE TO LOWER LEFT CORNER.



LEGEND:

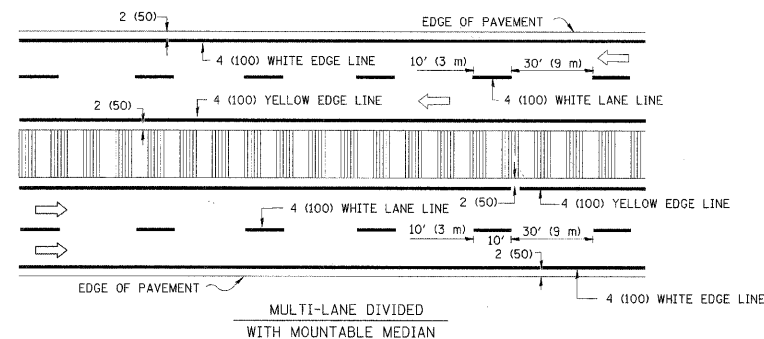
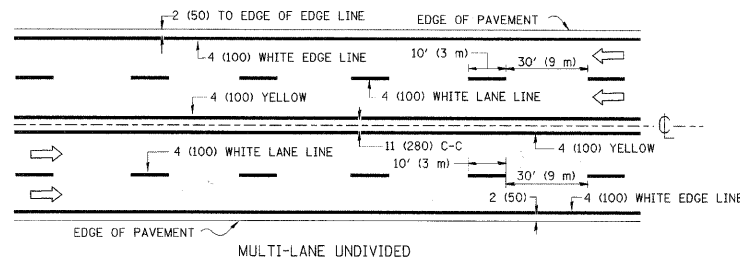
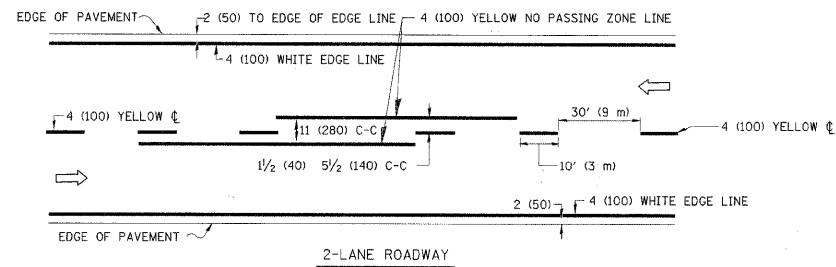
- SEEDING, CLASS 2A
- SEEDING, CLASS 3
- STONE RIP RAP
- TREE ACER PLATANOIDES (NORWAY MAPLE), 2-1/2" CALIPER, BALLED & BURLAPED

FILE NAME = #FILE# USER NAME = #USER# DESIGNED - PFR REVISED - DRAWN - PFR REVISED - CHECKED - KPS REVISED - DATE - 10/27/10 REVISED -

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - PFR	REVISED -
		DRAWN - PFR	REVISED -
		CHECKED - KPS	REVISED -
		DATE - 10/27/10	REVISED -

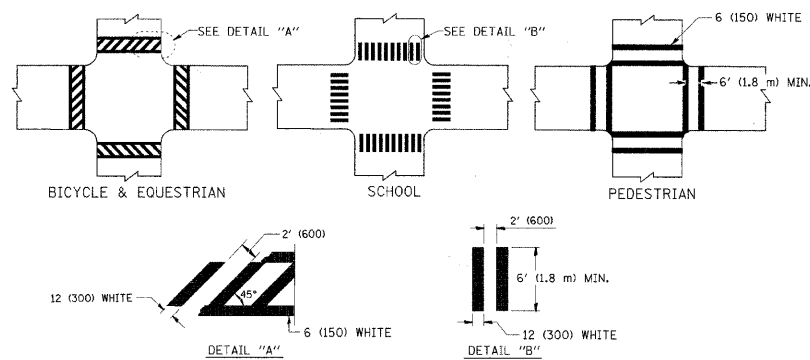
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 GREEN GARDEN TOWNSHIP
 88TH AVENUE (PEOTONE ROAD)

LANDSCAPING PLAN			F.A. RTE. N/A	SECTION 03-07118-00-BR	COUNTY WILL	TOTAL SHEETS 43	SHEET NO. 14
SCALE: 1"=50'	CONTRACT NO. 63156		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

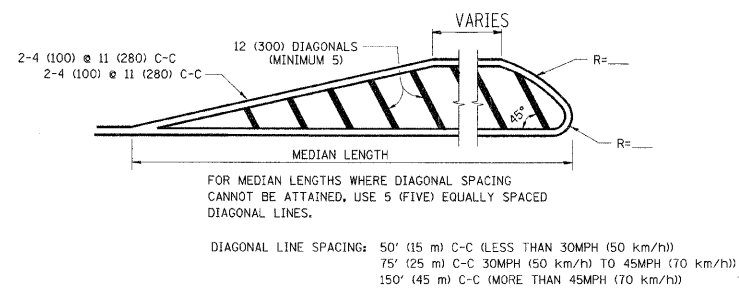
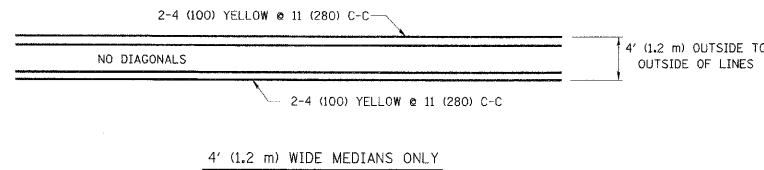


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

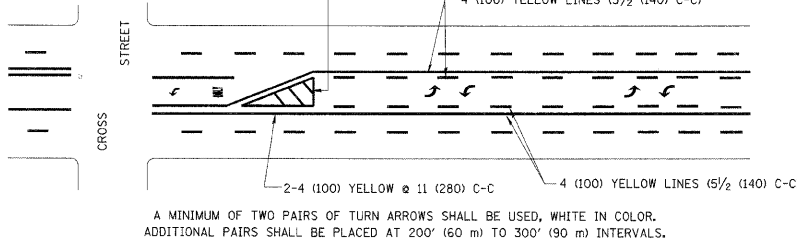
TYPICAL LANE AND EDGE LINE MARKING



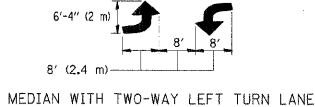
TYPICAL CROSSWALK MARKING



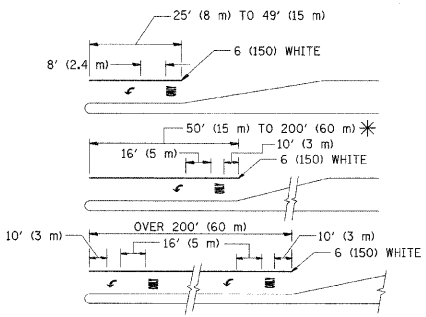
MEDIANS OVER 4' (1.2 m) WIDE



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.



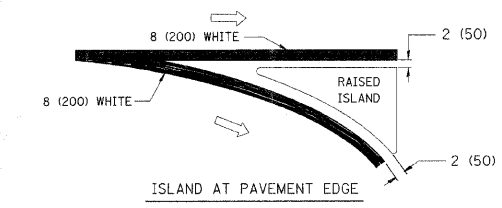
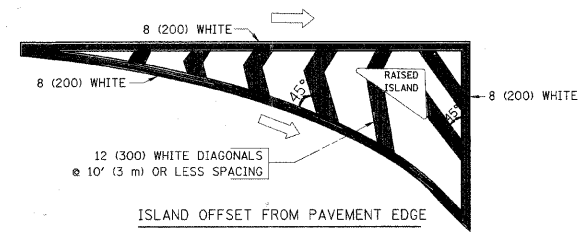
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²); ONLY AREA = 20.8 SQ. FT. (1.9 m²). 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



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 (8' (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.
GORE 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" 15 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 = drivakosgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
ca:\pwwork\pwwork\drivakosgn\d01089315\td	3.dgn	DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	03-07118-00-BR	WILL	43	15
TC-13			CONTRACT NO. 63156	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. The Contractor shall drive 2 test piles, as specified, in permanent locations as directed by the Engineer before ordering the remaining piles.
2. See Special Provisions for boring logs.
3. Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60. See Special Provisions.
4. Welded Wire Fabric shall conform to the requirements of AASHTO M-55.
5. Reinforcement bar bending dimensions are out to out.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. Do not scale dimensions for construction.
8. No construction joints except those shown in the plans will be allowed unless ordered by the Engineer.
9. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications (4th edition) with 2008 and 2009 Interims
 Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Adopted January 1, 2007

LOADING

Live Load: HL-93
 Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Bedrock Acceleration Coefficient (A) = 0.04
 Site Coefficient (S) = 1.0

INDEX OF SHEETS

16. General Plan & Elevation
17. Bill of Material & General Notes
18. Deck Beam Details I
19. Deck Beam Details II
20. Approach Slab Details I
21. Approach Slab Details II
22. Railing Elevation & Concrete Overlay Details
23. Railing Details
24. Abutment Details
25. SE MSE Wall - Plan & Elevation
26. NE MSE Wall - Plan & Elevation
27. MSE Wall Details - I
28. MSE Wall Details - II
29. Metal Shell Piles
30. Bar Splicer Assembly Details

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi (Substructure, Approach Slabs and Anchor Slabs)
 f'_c = 5,000 psi (Concrete Overlay)
 f_y = 60,000 psi (Reinf.)

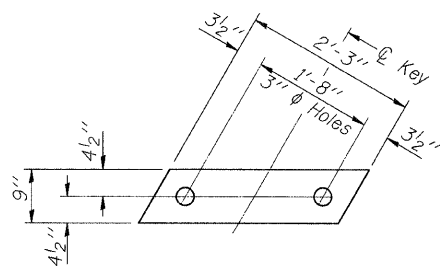
PRECAST PRESTRESSED UNITS

f'_c = 6,000 psi
 f'_{ci} = 5,000 psi
 f_{pu} = 270,000 psi (1/2" ϕ strands)
 f_{pbt} = 201,960 psi (1/2" ϕ strands)

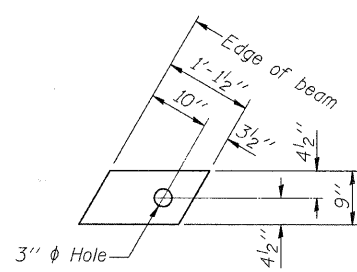
TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment, (Special)	Cu. Yd.	49
Stone Riprap, Class A4	Sq. Yd.	347
Filter Fabric	Sq. Yd.	347
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	595
Channel Excavation	Cu. Yd.	1,011
Concrete Wearing Surface, 5"	Sq. Yd.	283
Concrete Superstructures	Cu. Yd.	307.5
Concrete Structures	Cu. Yd.	50.2
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	2,542
Reinforcement Bars, Epoxy Coated	Pound	43,510
Bar Splicers	Each	64
Steel Railing, Type SM	Foot	661
Furnishing Metal Shell Piles 12" x 0.179"	Foot	910
Driving Piles	Foot	910
Test Pile Metal Shell	Each	2
Pile Shoes	Each	16
Geocomposite Wall Drain	Sq. Yd.	38
Pipe Underdrains for Structures, 4"	Foot	93
Concrete Headwalls for Pipe Drains	Each	2
Name Plates	Each	1
Permanent Survey Markers, Type 1	Each	1
Protective Coat	Sq. Yd.	495
Bridge Deck Grooving	Sq. Yd.	465
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2,527

FILE NAME = USER NAME = #USER#
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 DESIGNED - JFG
 DRAWN - JFG
 CHECKED - KPS
 DATE - 10/27/10
 REVISED -
 REVISED -
 REVISED -
 REVISED -
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 GREEN GARDEN TOWNSHIP
 88TH AVENUE (PEOTONE ROAD)
 BILL OF MATERIAL & GENERAL NOTES
 SCALE: N.T.S.
 F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 N/A 03-07118-00-BR WILL 43 17
 CONTRACT NO. 63156
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS



FABRIC BEARING PAD
(Interior)

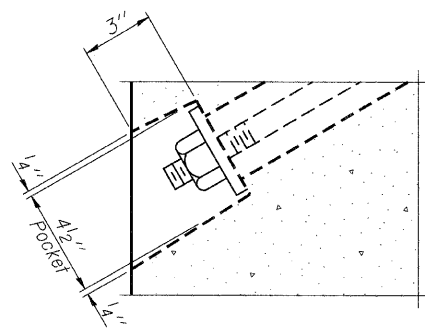


FABRIC BEARING PAD
(Exterior)

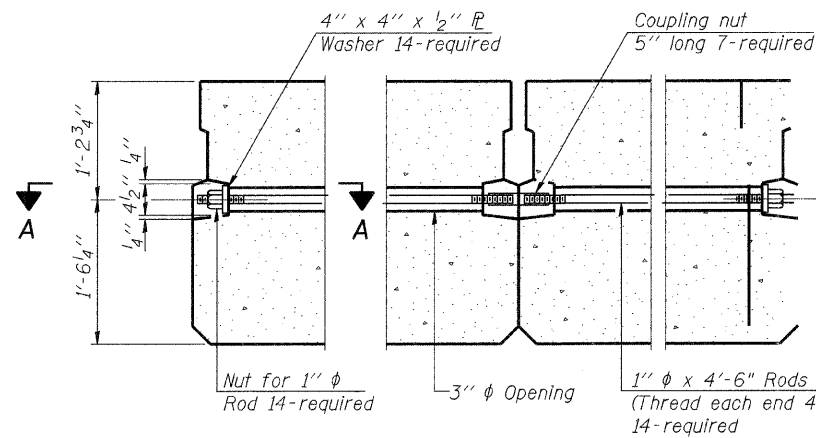
Notes:

All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.

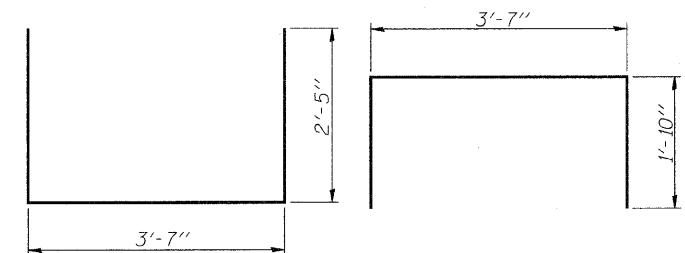
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SECTION A-A

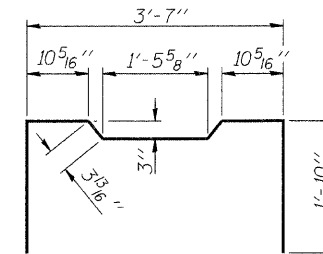


TYPICAL TRANSVERSE TIE ASSEMBLY

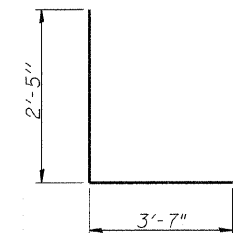


BAR S₁(E)

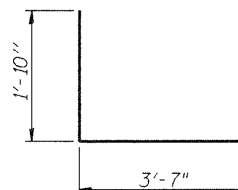
BAR S(E)



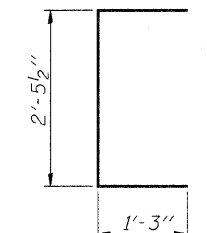
BAR S₂(E)



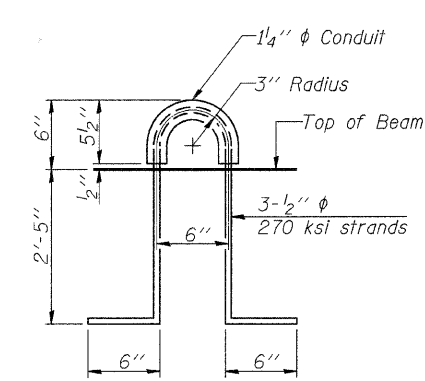
BAR S₃(E)



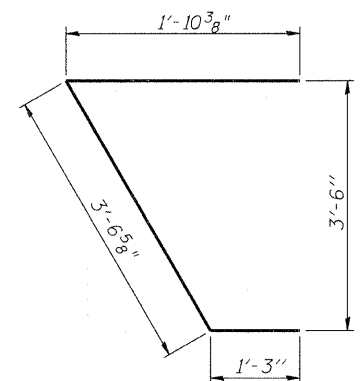
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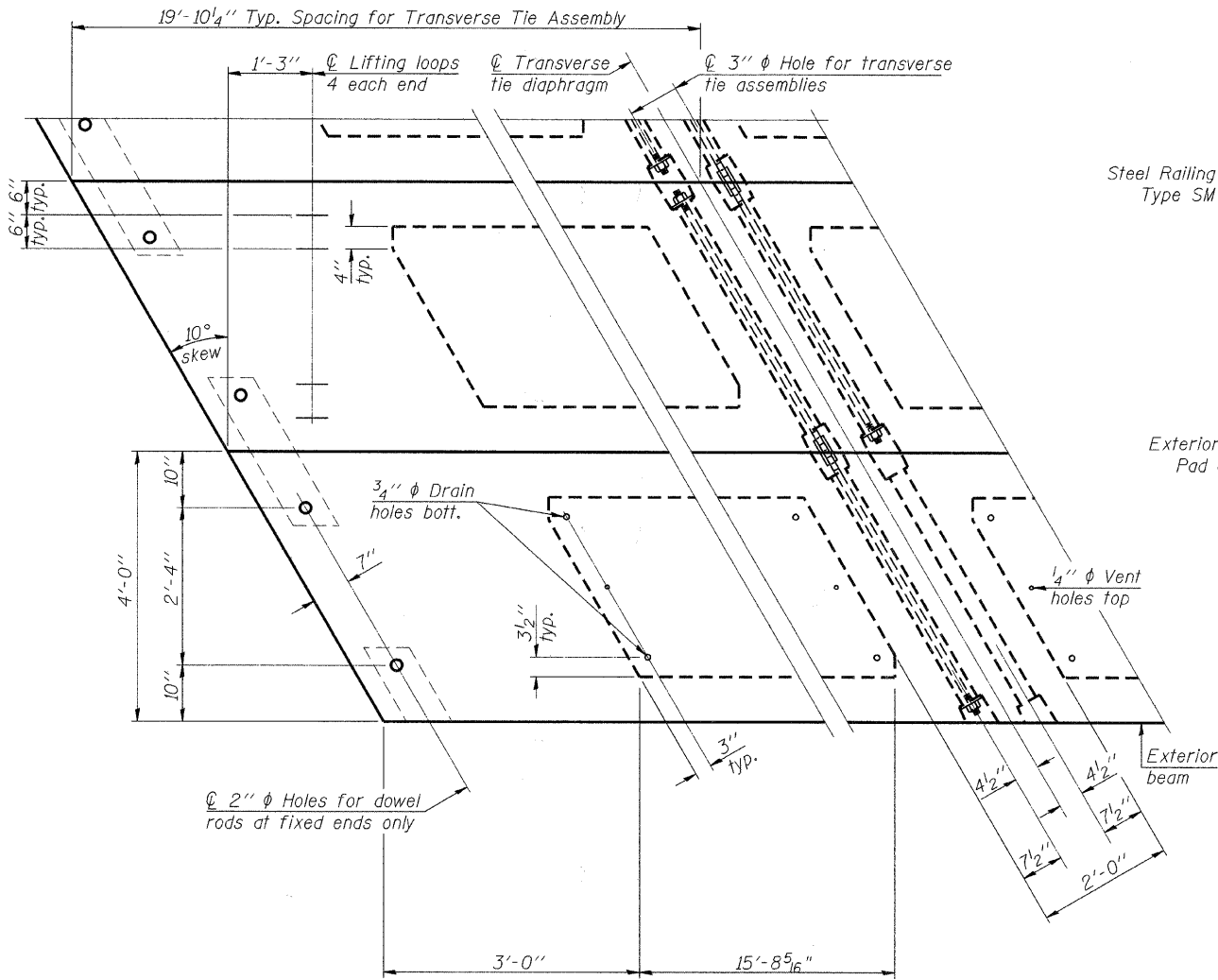
BAR U(E)



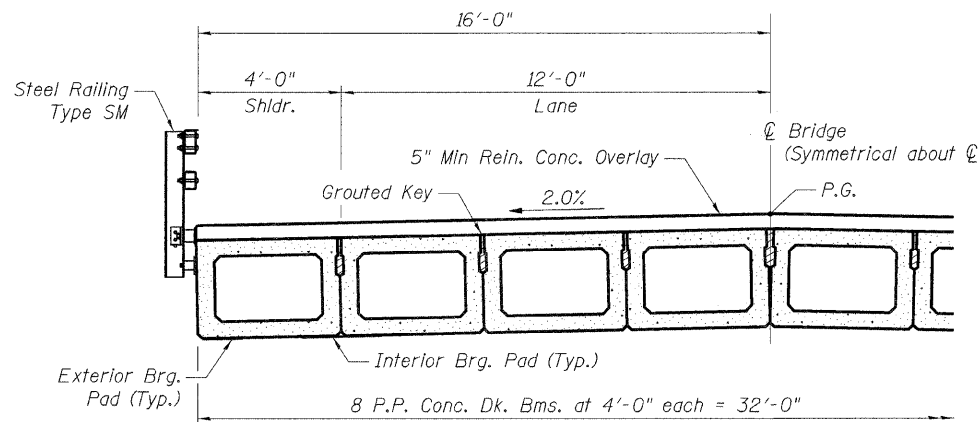
LIFTING LOOP DETAIL



BAR U₁(E)



PLAN VIEW



HALF CROSS SECTION

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	2,542
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Note: Connect beams in pairs with the transverse tie configuration shown.

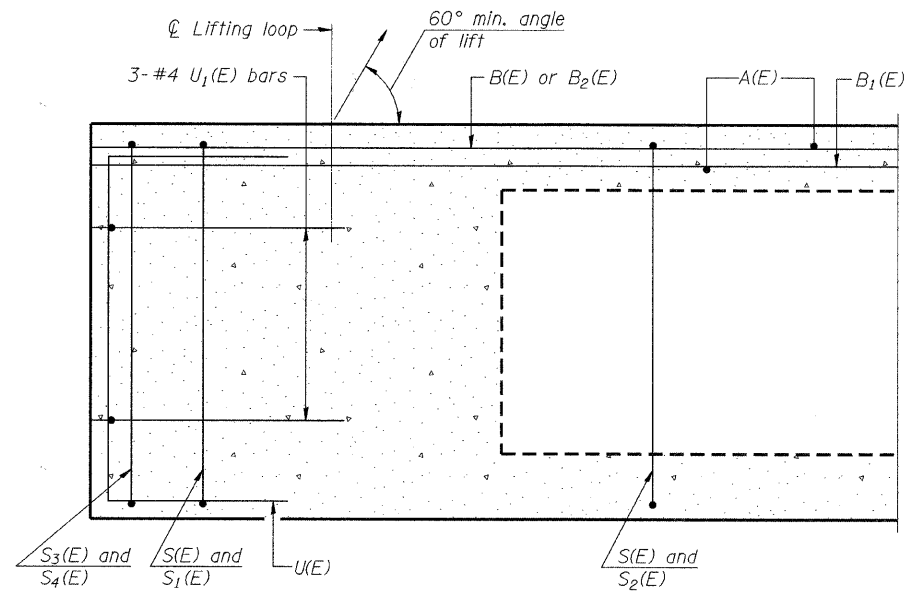
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 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

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		DRAWN - JFG	REVISED -
		CHECKED - KPS	REVISED -
		DATE - 10/27/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 GREEN GARDEN TOWNSHIP
 88TH AVENUE (PEOTONE ROAD)

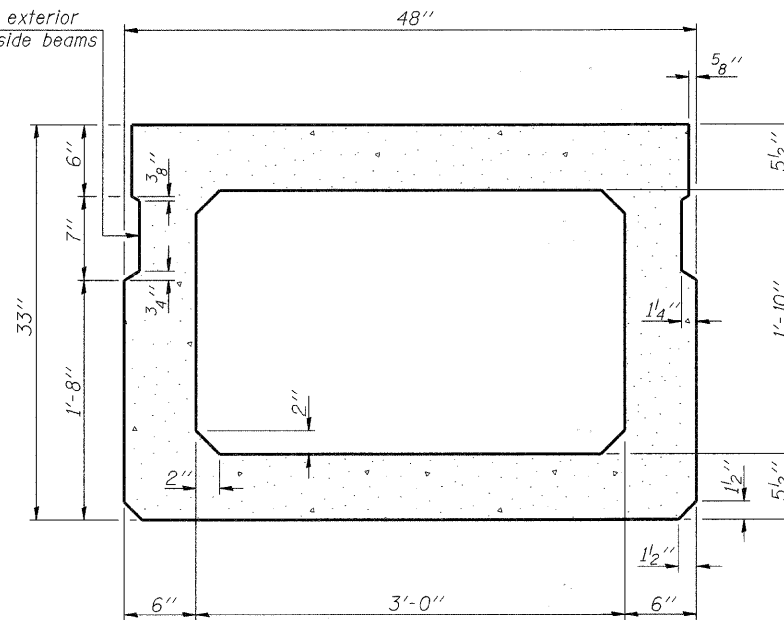
DECK BEAM DETAILS I	
SCALE: N.T.S.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 63156				

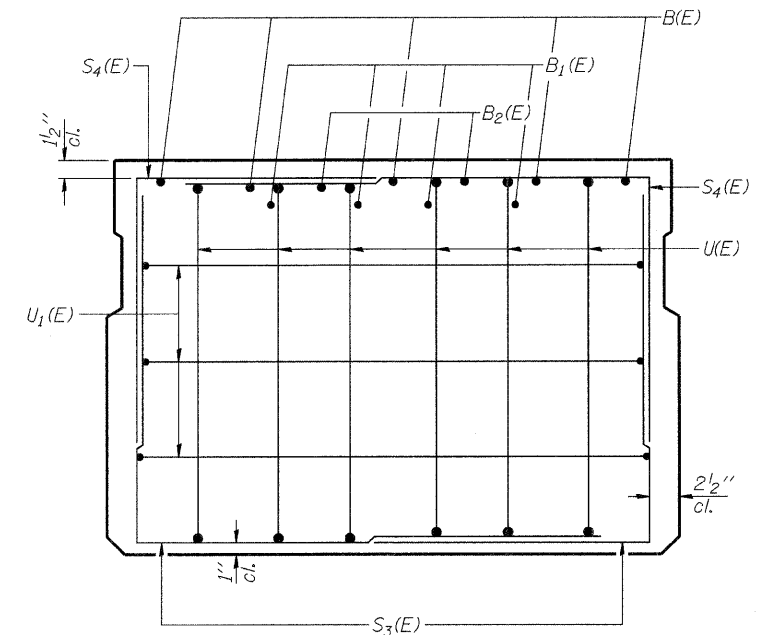


SECTION C-C

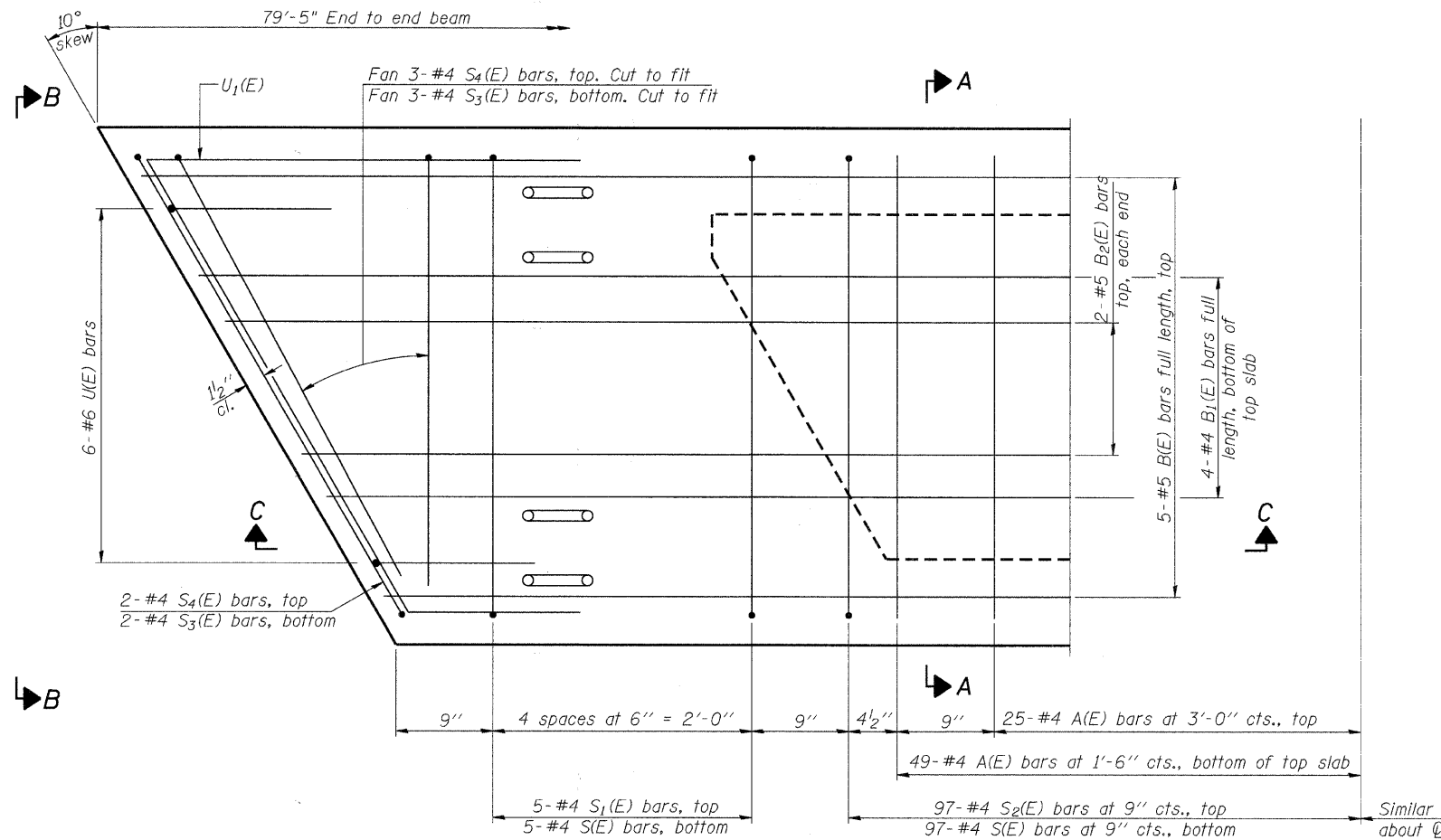
Omit key on exterior face of outside beams



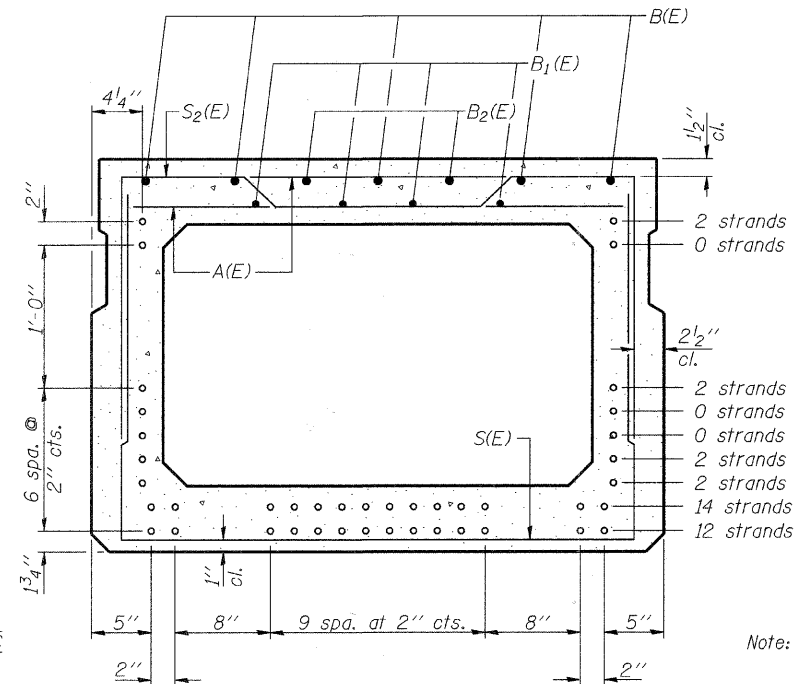
SECTION A-A
(Showing dimensions)



VIEW B-B



PLAN VIEW



SECTION A-A

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

**BAR LIST
ONE BEAM ONLY**

(For information only)

Bar	No.	Size	Length	Shape
A(E)	74	#4	3'-7"	—
B(E)	5	#5	79'-1"	—
B1(E)	4	#4	79'-1"	—
B2(E)	4	#5	10'-0"	—
S(E)	107	#4	8'-5"	—
S1(E)	10	#4	7'-3"	┌
S2(E)	97	#4	7'-6"	┌
S3(E)	8	#4	6'-0"	┌
S4(E)	8	#4	5'-5"	┌
U(E)	12	#6	5'-0"	┌
U1(E)	6	#4	6'-8"	┌

Note: See sheet 18 of 43 for additional details and Bill of Material. See sheet 22 of 43 for details of D(E) bars and Anchor Devices to be cast in exterior face of fascia beams.

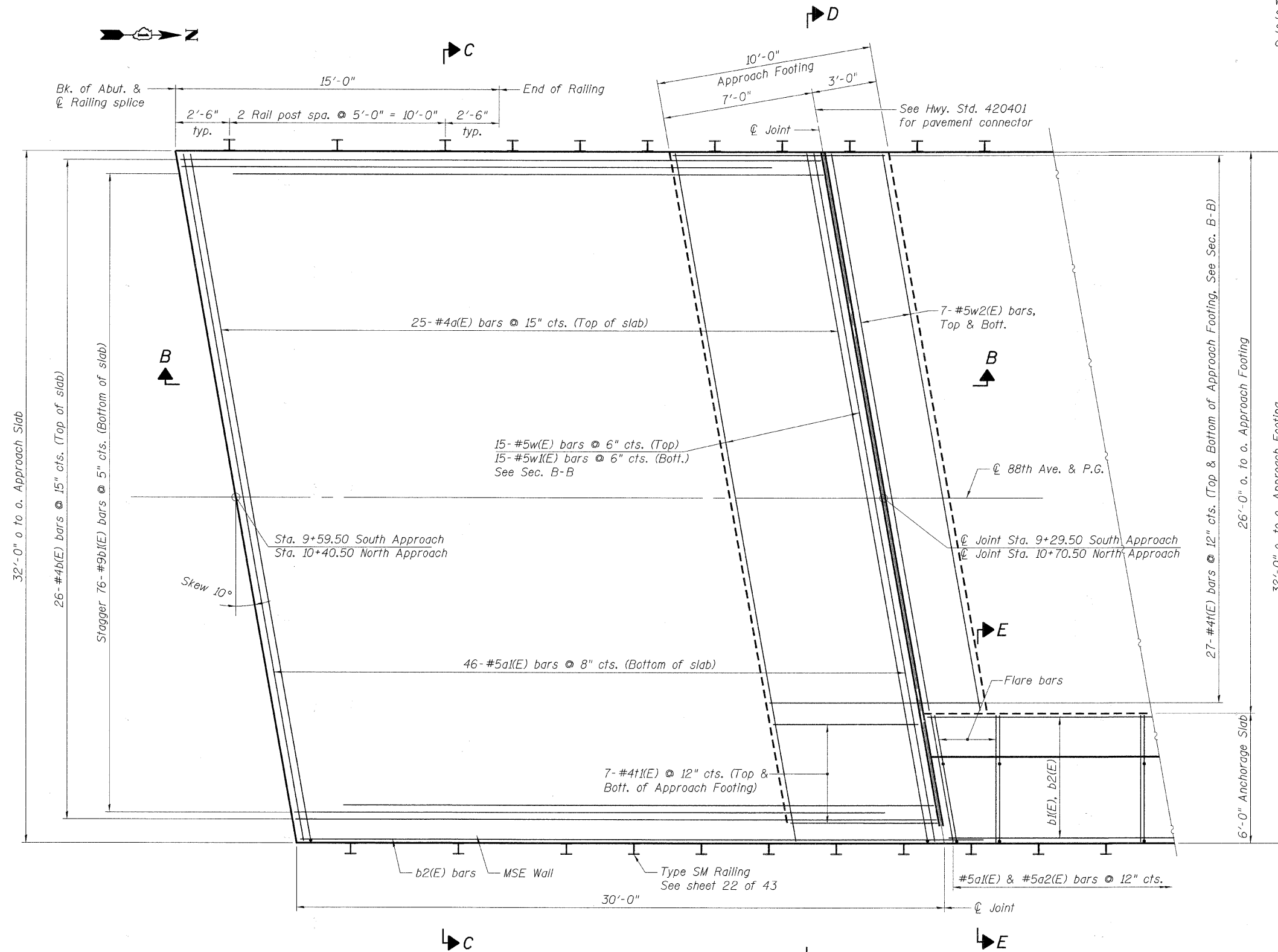
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

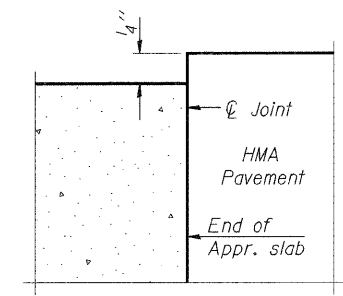
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 PLOT DATE = 10-25-2010

Work this sheet with sheets 25 thru 28.
 See sheet 21 of 43 for section B-B, C-C, D-D and E-E
 See sheet 23 of 43 for Railing and Railing Connection.
 a(E) and a1(E) bar spacings measured along \varnothing Rdwy.



* Tilt #9b1(E) bars as required to maintain clearance

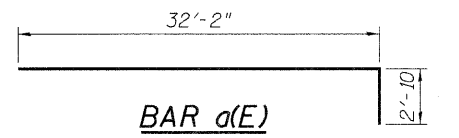
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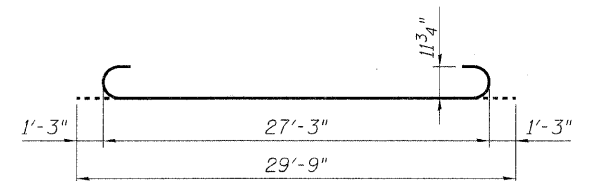
DETAIL A - FLEXIBLE PAVEMENT

**BILL OF MATERIAL
TWO APPROACHES**

Bar	No.	Size	Length	Shape
a(E)	50	#4	35'-0"	[L-shaped]
a1(E)	92	#5	32'-2"	[L-shaped]
b(E)	52	#4	29'-8"	[I-shaped]
b1(E)	152	#9	29'-9"	[I-shaped]
b2(E)	4	#4	32'-3"	[I-shaped]
f(E)	54	#4	9'-10"	[I-shaped]
f1(E)	28	#4	6'-8"	[I-shaped]
w(E)	30	#5	31'-4"	[I-shaped]
w1(E)	30	#5	32'-2"	[I-shaped]
w2(E)	28	#5	26'-1"	[I-shaped]
Concrete Superstructure		Cu. Yd.	94.6	
Concrete Structures		Cu. Yd.	19.2	
Reinforcement Bars, Epoxy Coated		Pound	23,900	
Protective Coat		Sq. Yd.	213	
Bridge Deck Grooving		Sq. Yd.	200	



BAR a(E)



BAR b1(E)

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 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

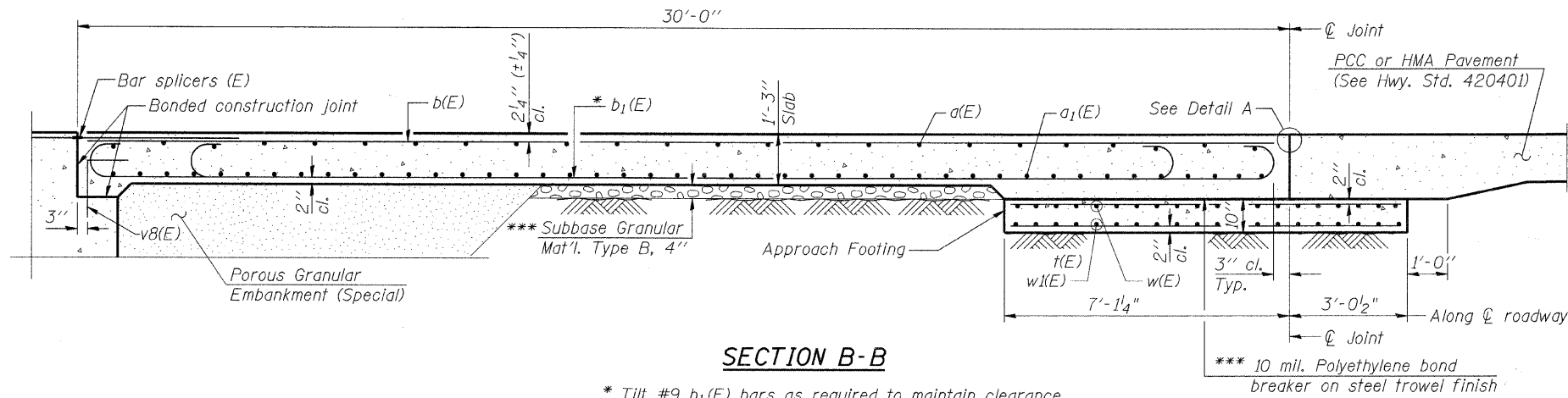
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	DATE - 10/27/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
 GREEN GARDEN TOWNSHIP
 88TH AVENUE (PEOTONE ROAD)

APPROACH SLAB DETAILS I
 SCALE: N.T.S.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	03-07118-00-BR	WILL	43	20
CONTRACT NO. 63156			ILLINOIS FED. AID PROJECT	



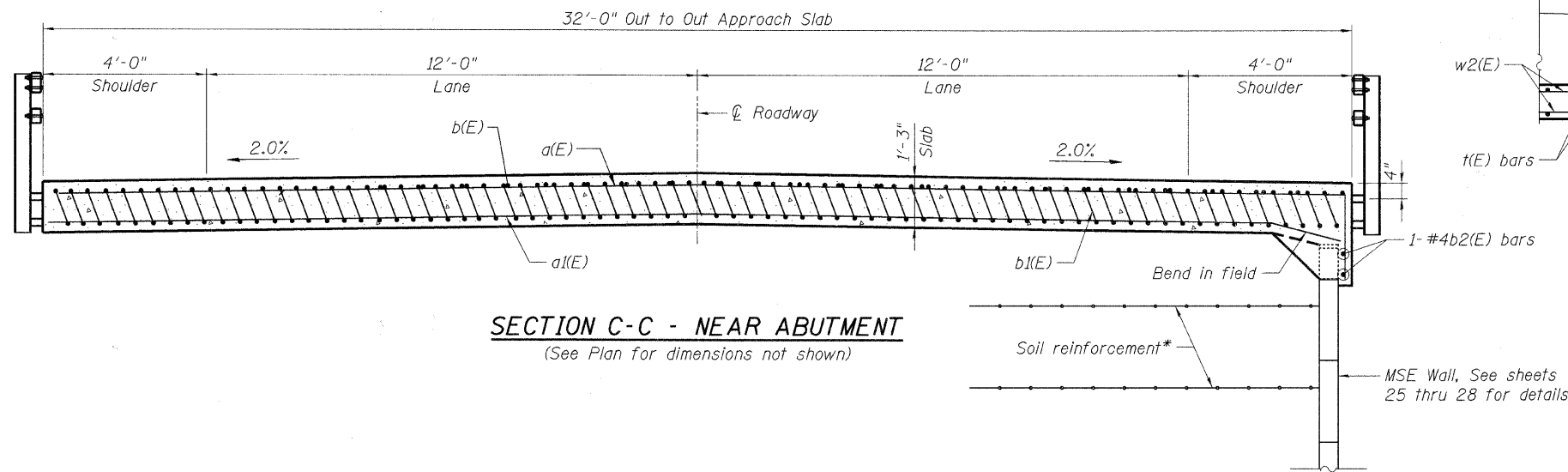
SECTION B-B

* Tilt #9 b₁(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.

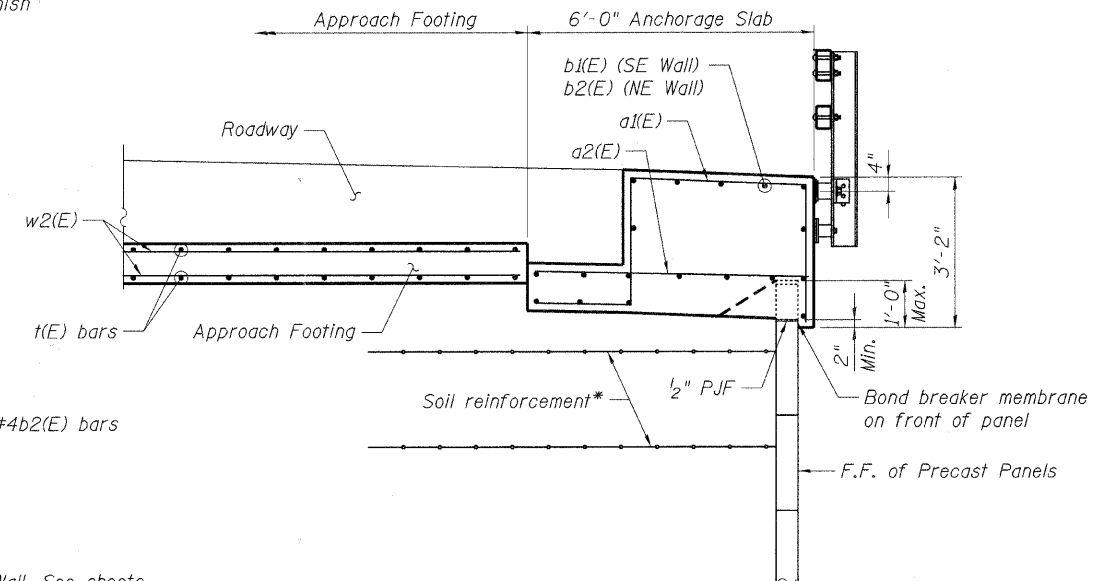
NOTES:

Work this sheet with sheets 25 thru 28.
 See sheet 20 of 43 for Detail A.
 Approach slab concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v8(E) bar details, see sheet 24 of 43.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 For Bar Splicer details, see sheet 30 of 43.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 24 of 43.
 For additional railing details see sheets 22 and 23 of 43.

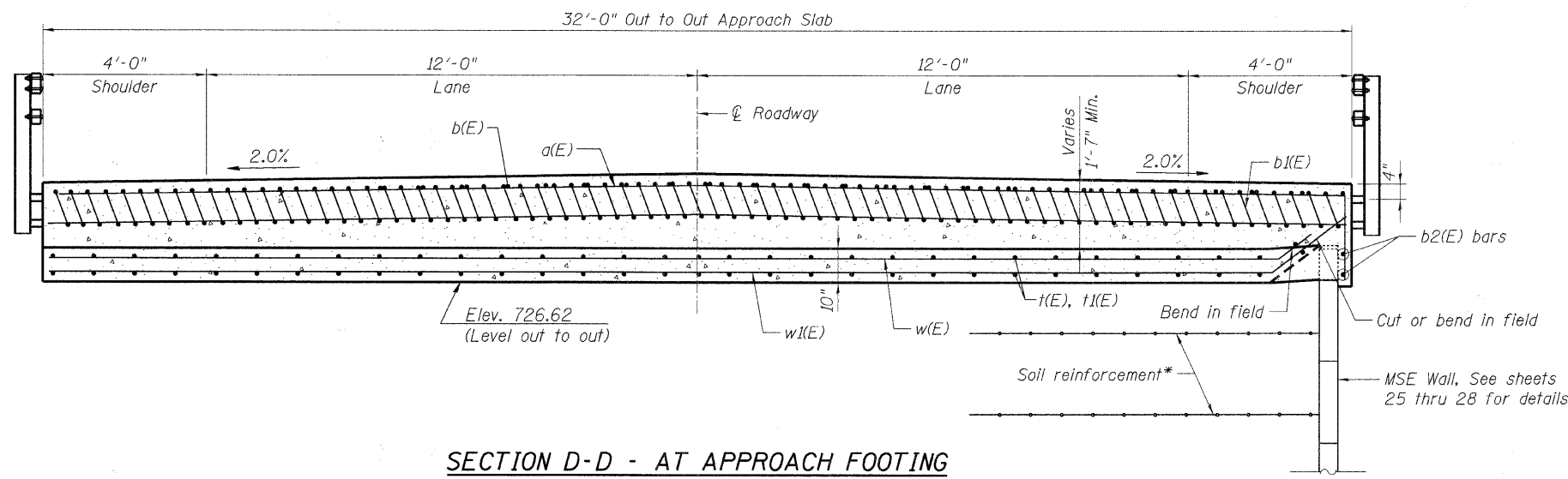


SECTION C-C - NEAR ABUTMENT

(See Plan for dimensions not shown)



SECTION E-E

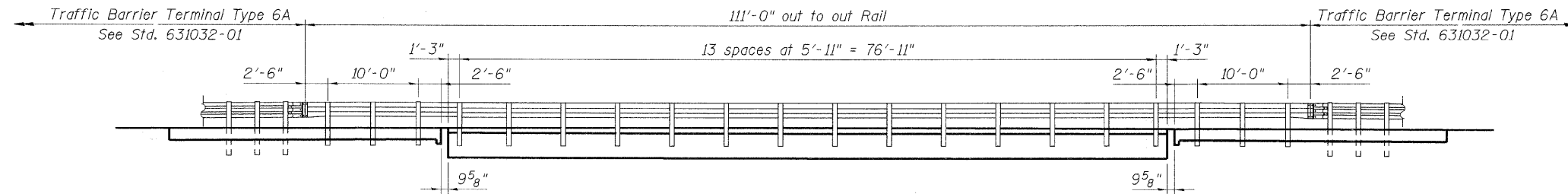


SECTION D-D - AT APPROACH FOOTING

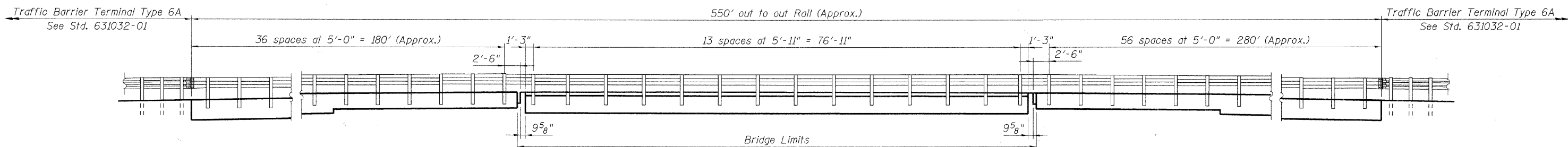
(See Plan for dimensions not shown)

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 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

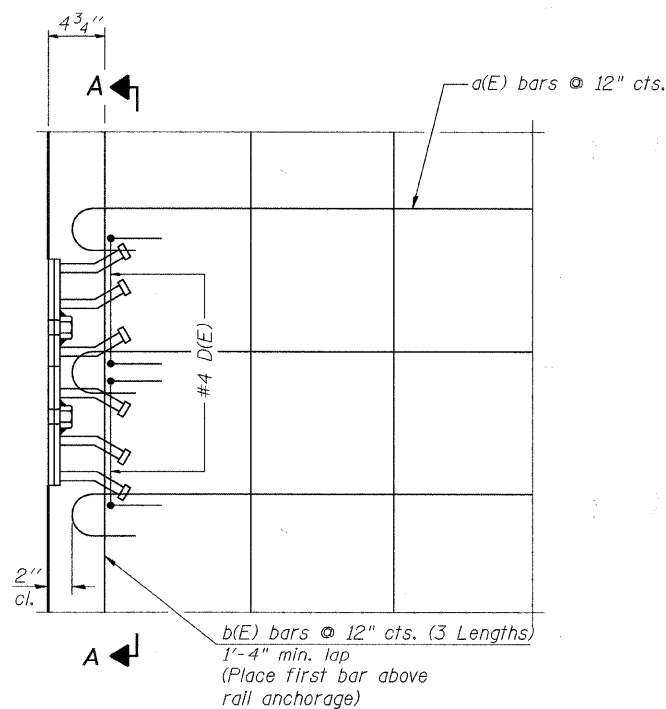
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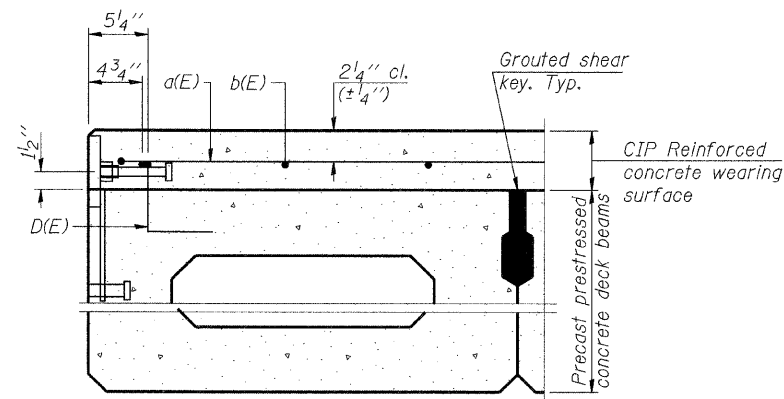
STEEL RAILING LAYOUT
(West Side - Looking East)



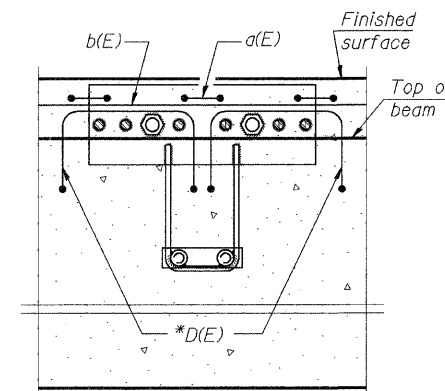
STEEL RAILING LAYOUT
(East Side - Looking West)



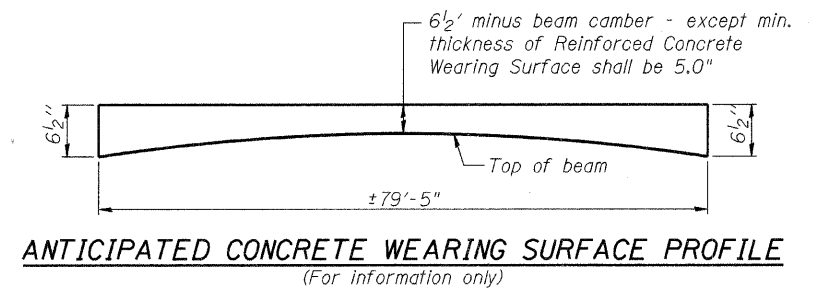
PLAN



SECTION THRU FASCIA BEAM



SECTION A-A

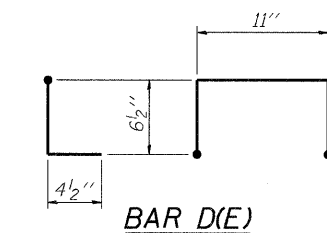


ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	80	#4	33'-0"	U
b(E)	99	#4	27'-6"	—
Reinforcement Bars, Epoxy Coated		Pound	3,590	
Concrete Wearing Surface, 5"		Sq. Yd.	283	
Steel Railing Type, SM		Foot	661	
Protective Coat		Sq. Yd.	282	
Bridge Deck Grooving		Sq. Yd.	265	

MINIMUM BAR LAP
#4 bar = 2'-0"



* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.

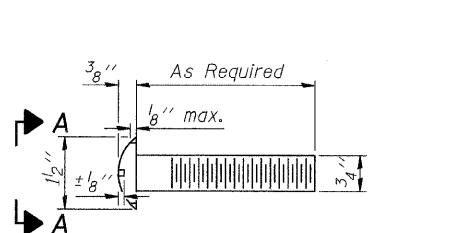
Notes:
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.

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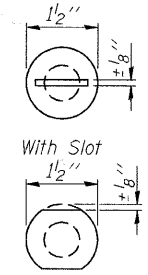
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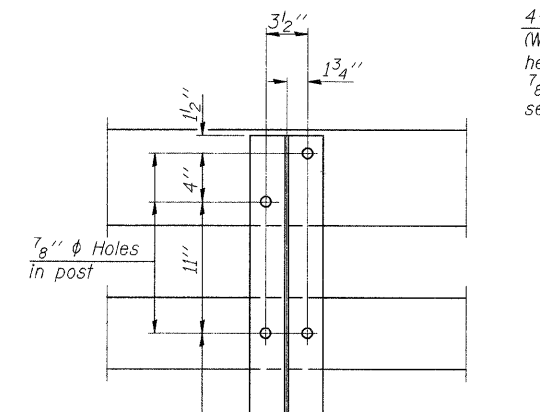


DETAIL OF 3/4" ϕ ROUND HEAD BOLT

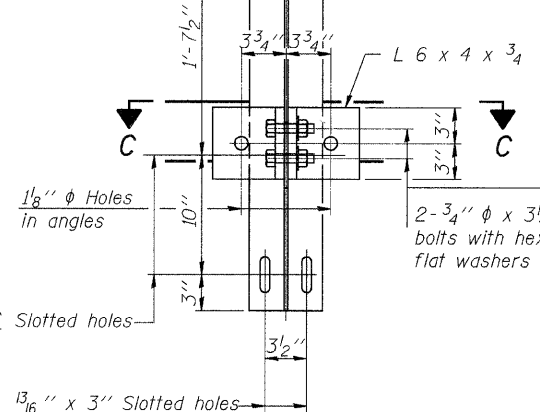


VIEW A-A
Without Slot or Recess

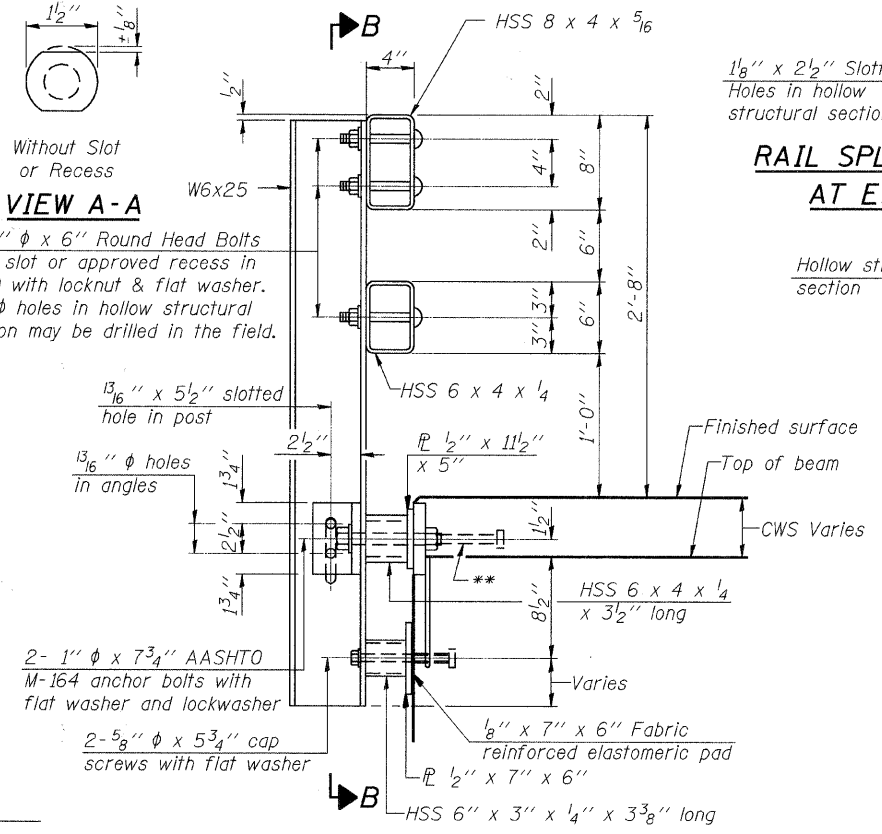
4- 3/4" ϕ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" ϕ holes in hollow structural section may be drilled in the field.



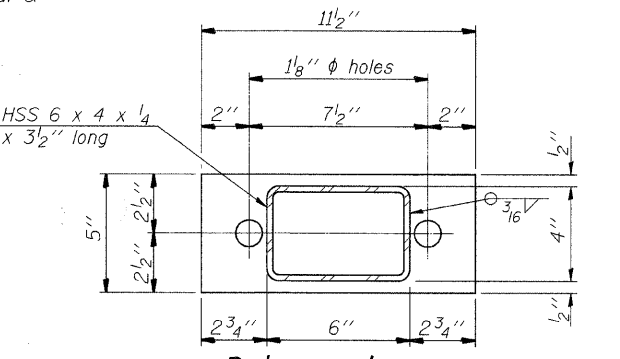
SECTION B-B



SECTION C-C

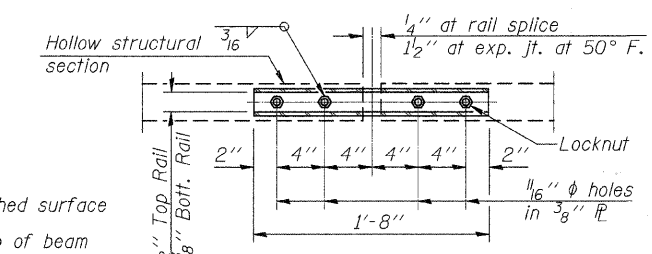


SECTION AT RAIL POST

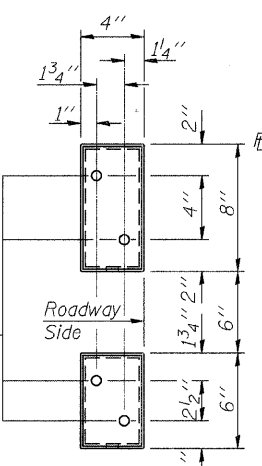


PLAN-BOTT. SPLICE P TYPICAL

RAIL SPLICE CONNECTION AT EXPANSION JT.



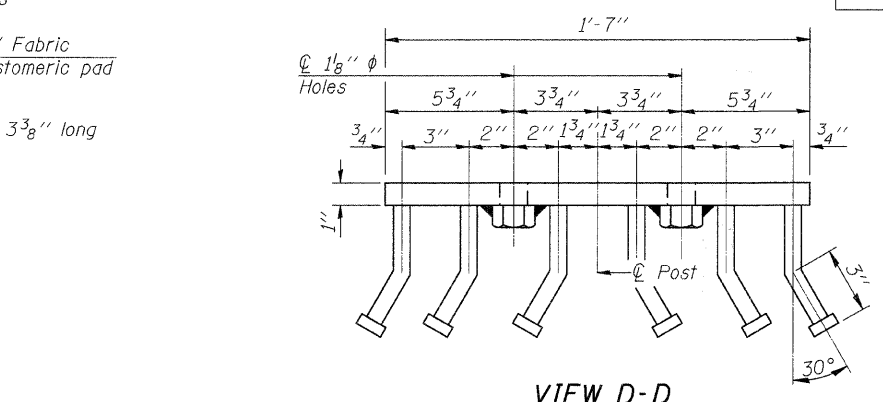
SECTION AT RAIL SPLICE



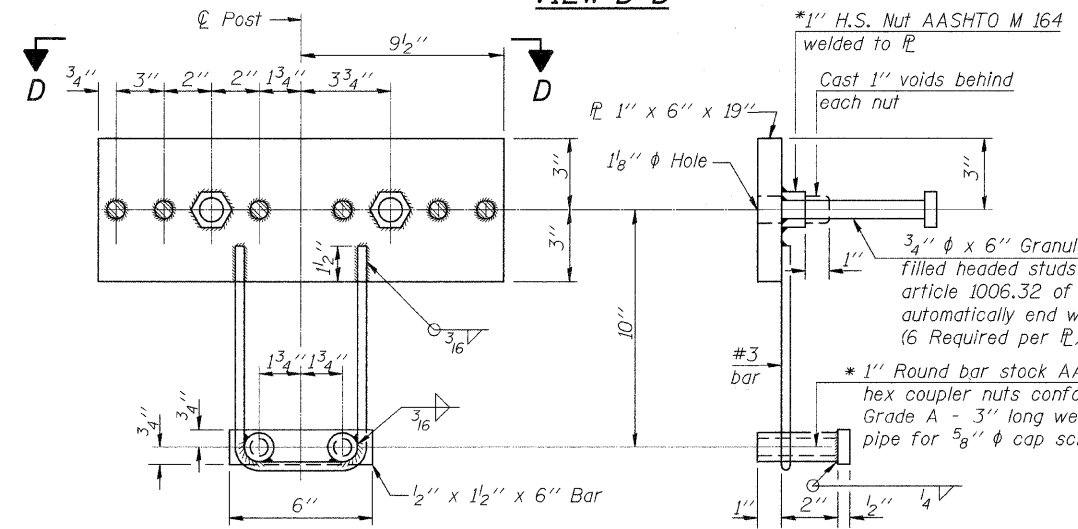
VIEW E-E

END OF RAIL DETAILS

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. See sheet 21 of 43 for dimension from top of approach slab and top of anchor slab to top studs of anchor device.



VIEW D-D



ANCHOR DEVICE

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

R-34CWS

11-1-09

(6'-3" Maximum Post Spacing) (5" minimum to 7 1/2" maximum CWS thickness)

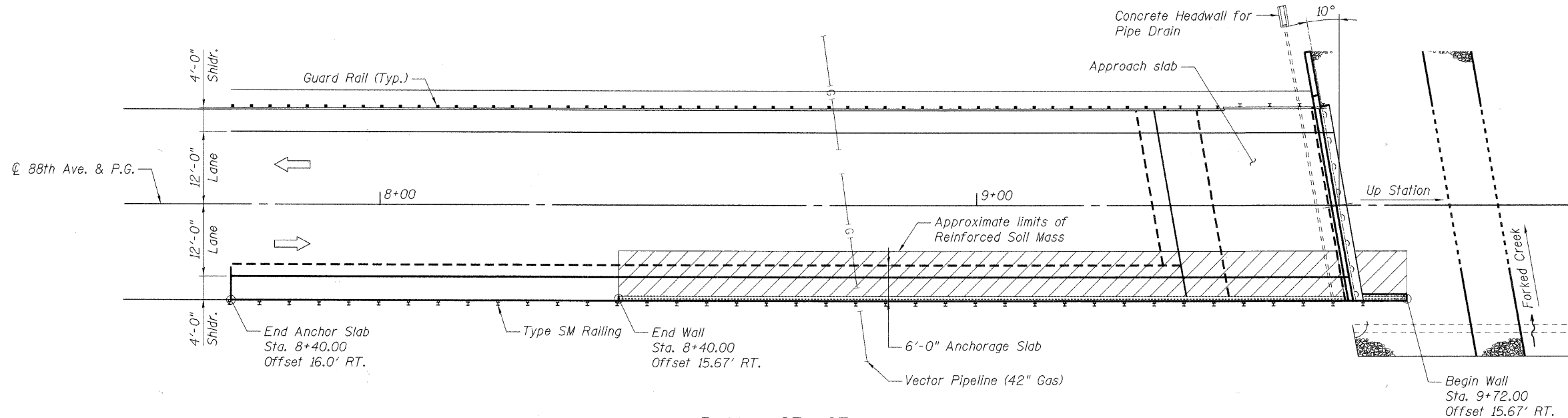
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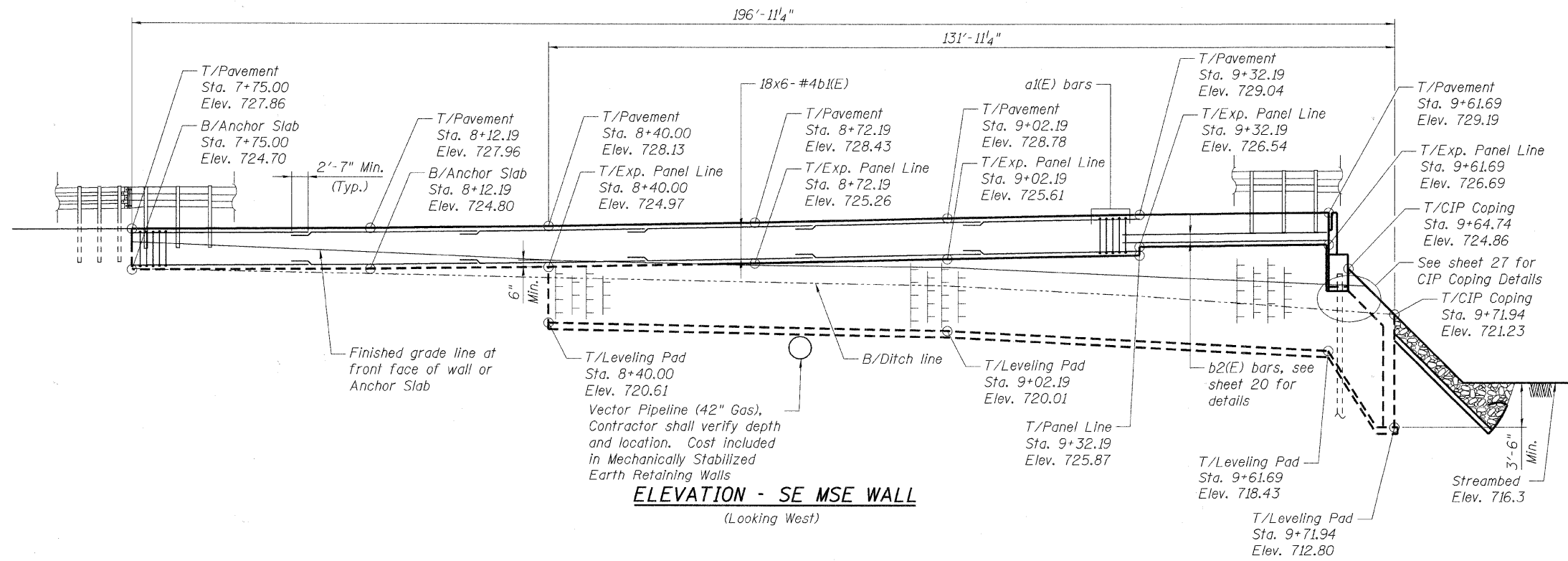
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DEPARTMENT OF TRANSPORTATION
GREEN GARDEN TOWNSHIP
88TH AVENUE (PEOTONE ROAD)

RAILING DETAILS				
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N/A	03-07118-00-BR	WILL	43	23
CONTRACT NO. 63156				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

SCALE: N.T.S.



PLAN - SE MSE WALL

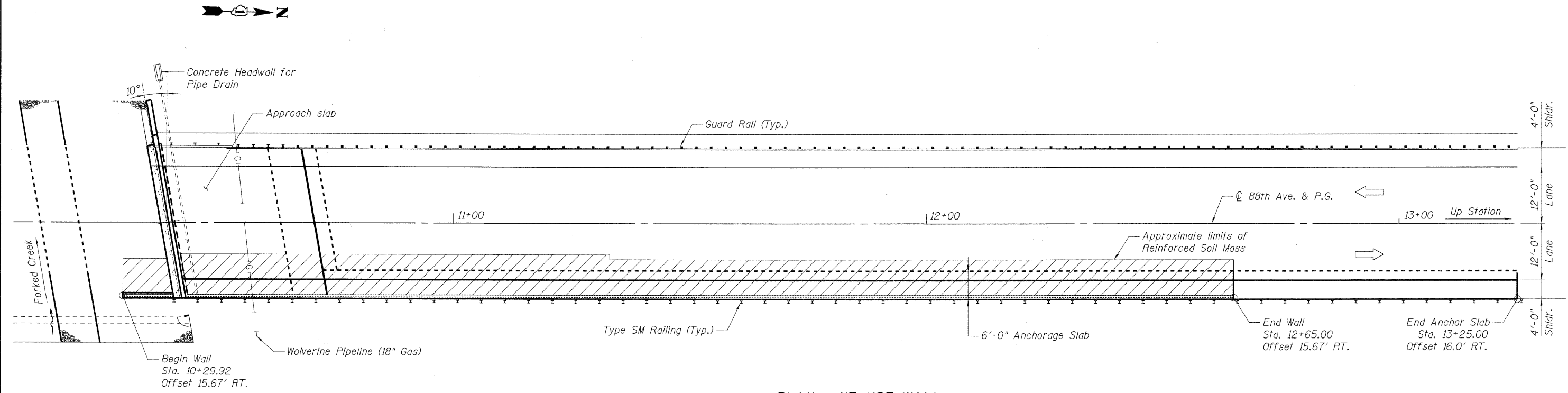


ELEVATION - SE MSE WALL
(Looking West)

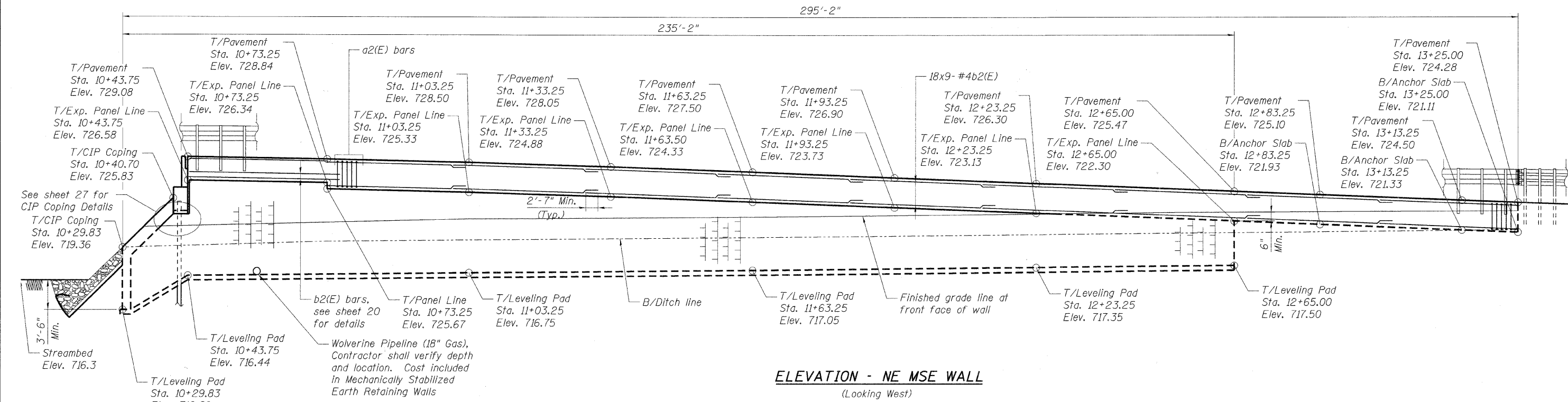
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PLAN - NE MSE WALL



ELEVATION - NE MSE WALL

(Looking West)

NOTE:

Work this sheet with sheets 20, 21, 23, 27 and 28.

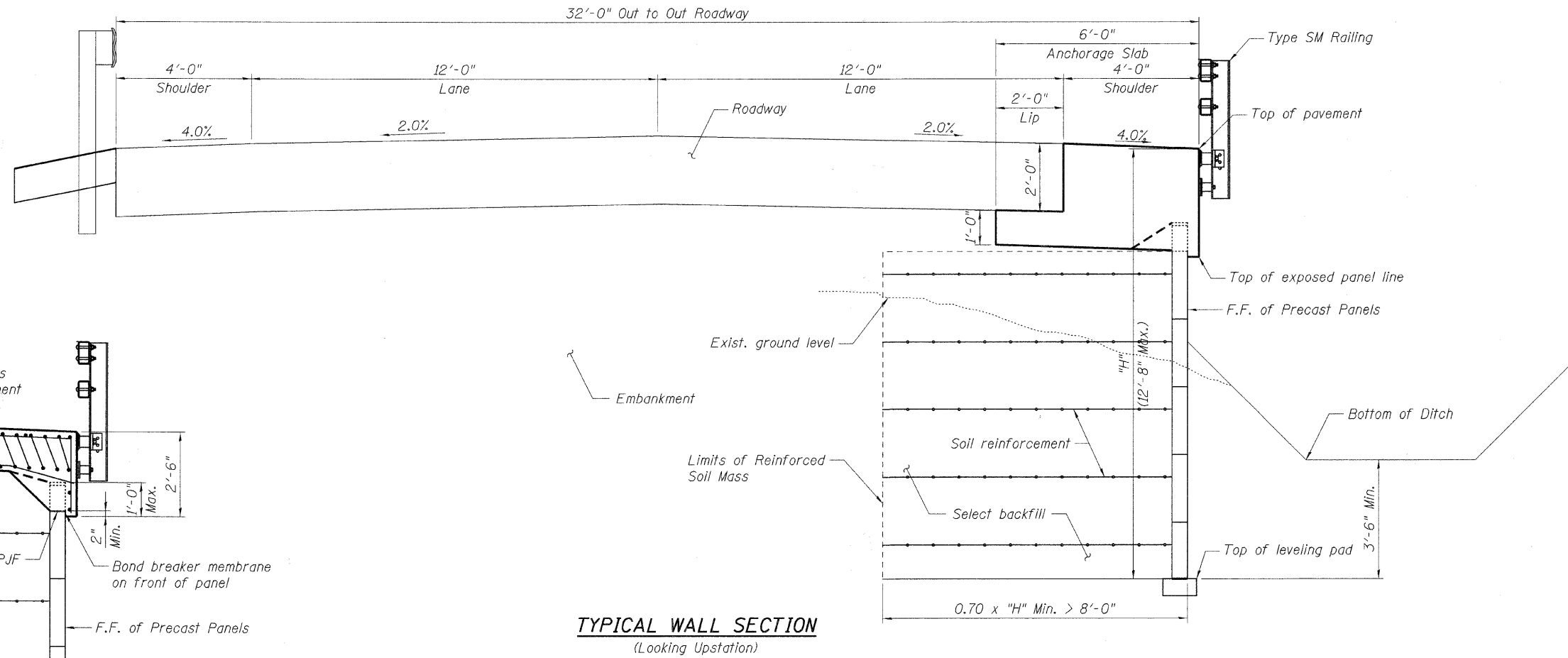
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 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

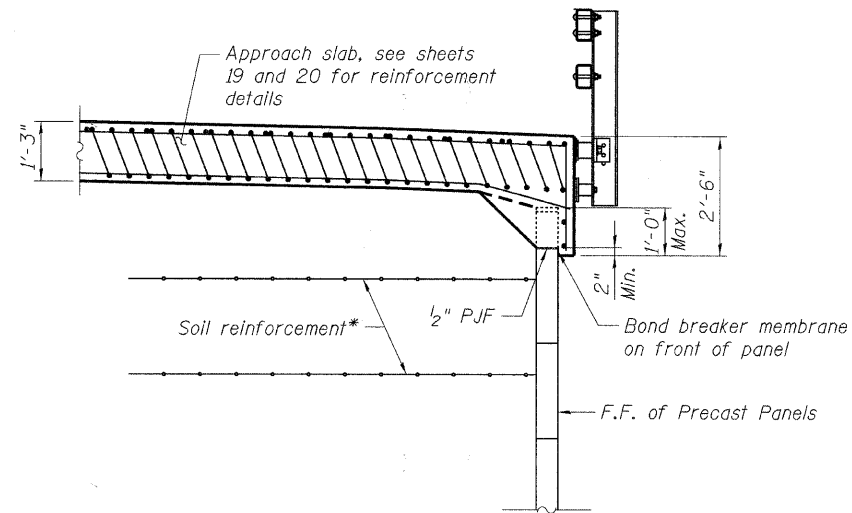
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 GREEN GARDEN TOWNSHIP
 88TH AVENUE (PEOTONE ROAD)

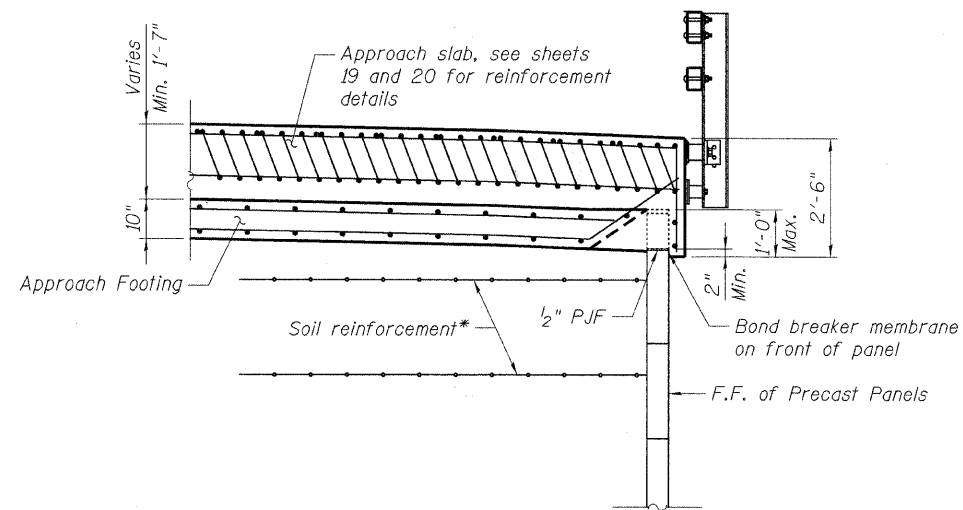
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		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



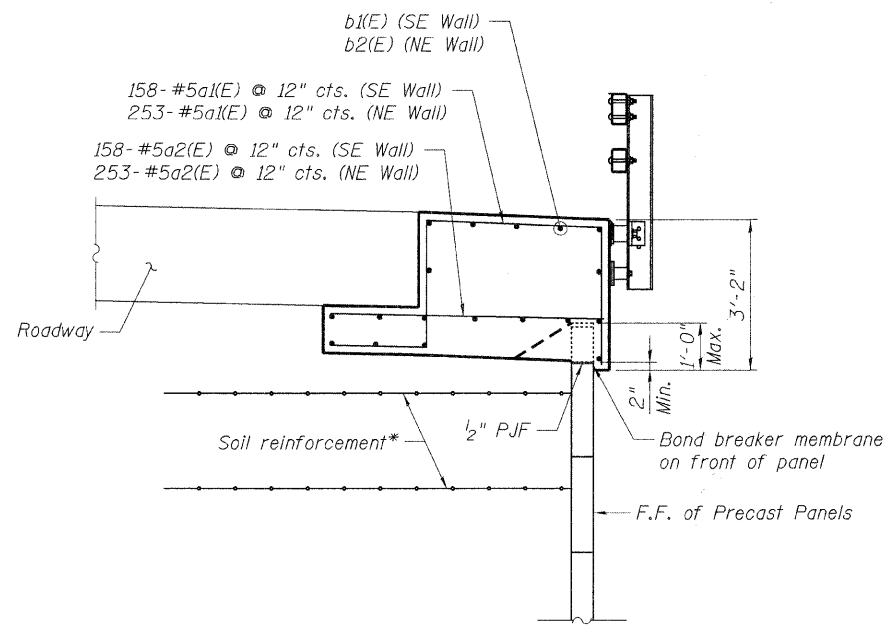
TYPICAL WALL SECTION
(Looking Upstation)



SECTION THRU APPROACH SLAB - NEAR ABUTMENT



SECTION THRU APPROACH SLAB - AT APPROACH FOOTING



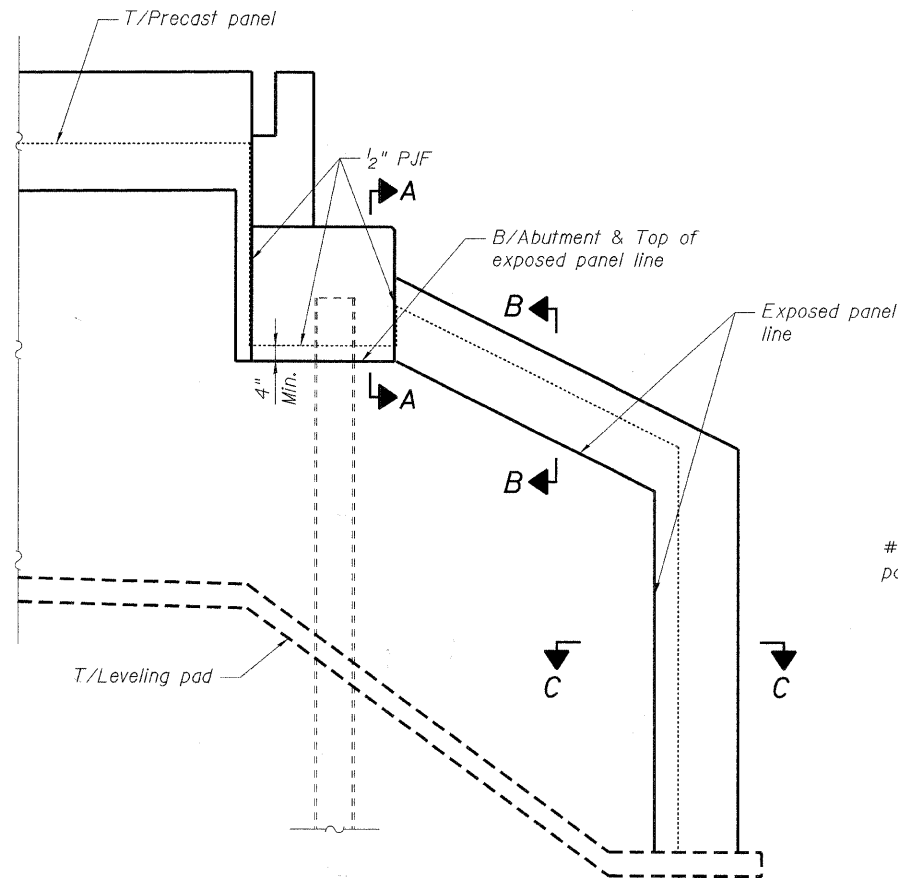
SECTION THRU ANCHORAGE SLAB - ROADWAY

* MSE wall supplier's internal design shall account for the anchorage slab's bearing pressure surcharge of 1.3 ksf and horizontal sliding force of 0.5 kips/ft. of wall.

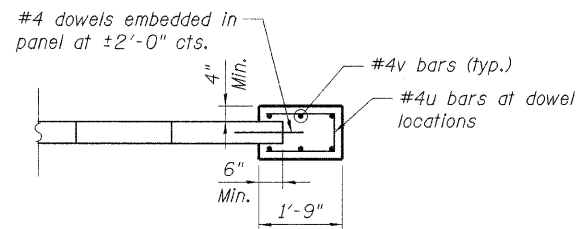
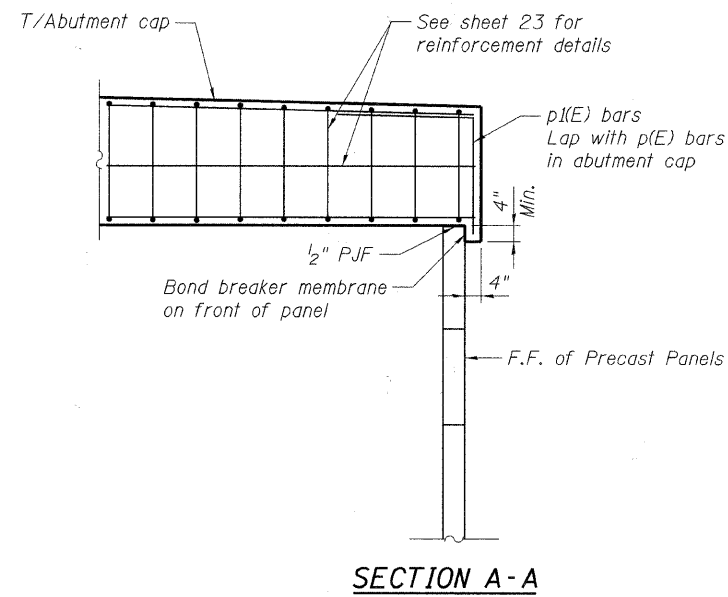
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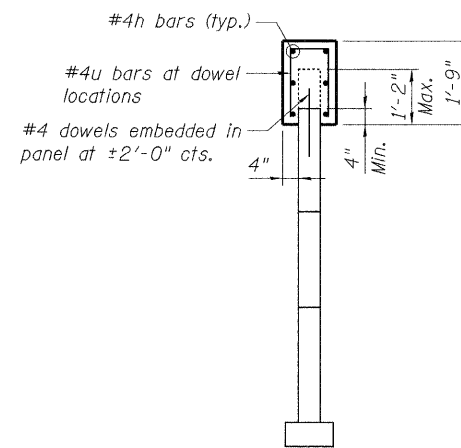


COPING DETAILS - NEAR ABUTMENT



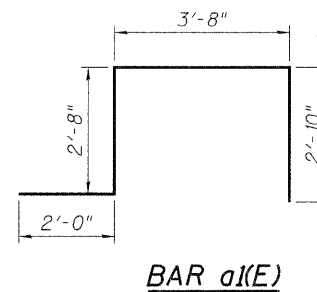
SECTION C-C

Cost of coping including reinforcement is included with MSE Retaining Wall.



SECTION B-B

Cost of coping including reinforcement is included with MSE Retaining Wall.



**MSE WALLS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	411	#5	11'-2"	┌┐
a2(E)	411	#5	5'-8"	▬
b1(E)	108	#4	28'-4"	▬
b2(E)	162	#4	30'-3"	▬
Item			Unit	Quantity
Structure Excavation			Cu. Yd.	539
Concrete Superstructures			Cu. Yd.	212.9
Reinforcement Bars, Epoxy Coated			Pound	12,540
MSE Retaining Wall			Sq. Ft.	2,527

NOTES:

Work this sheet with sheets 25, 26 & 27.
Anchorage slab concrete shall be paid for as Concrete Superstructure.
Anchorage slab reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.

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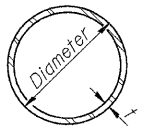
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
GREEN GARDEN TOWNSHIP
88TH AVENUE (PEOTONE ROAD)

MSE WALL DETAILS - II

SCALE: N.T.S.

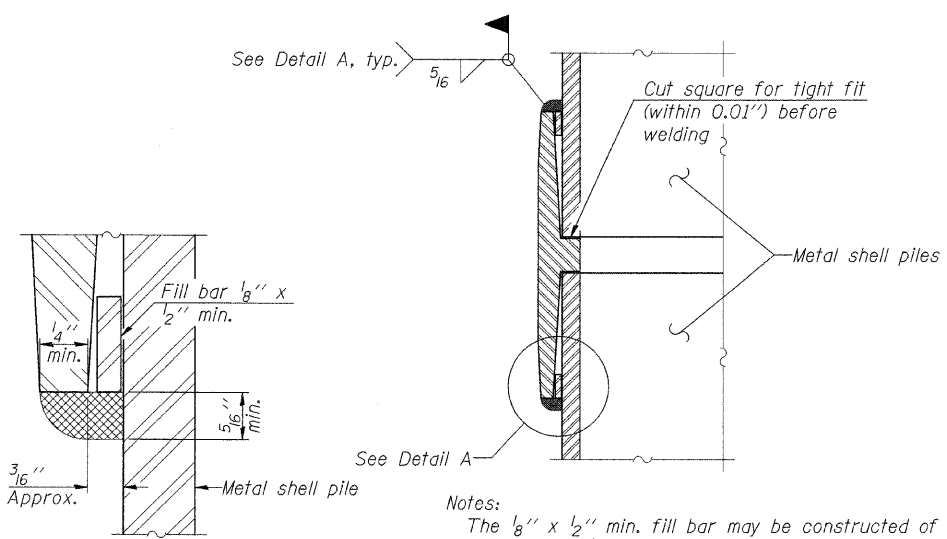
F.A. RTE. N/A	SECTION 03-07118-00-BR	COUNTY WILL	TOTAL SHEETS 43	SHEET NO. 28
CONTRACT NO. 63156				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				





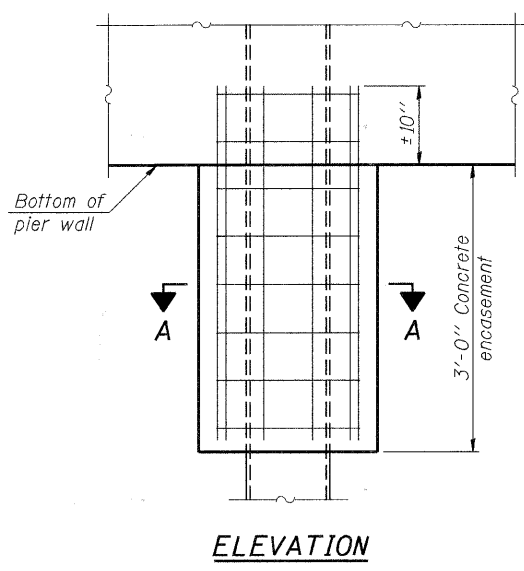
METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



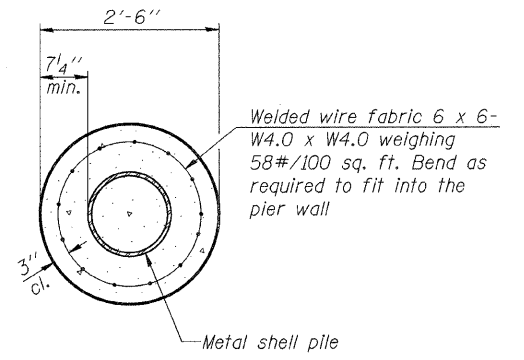
Notes:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them. Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



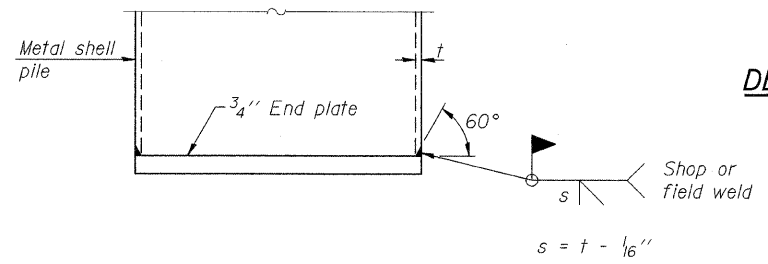
ELEVATION

CONCRETE ENCASEMENT AT PIERS



SECTION A-A

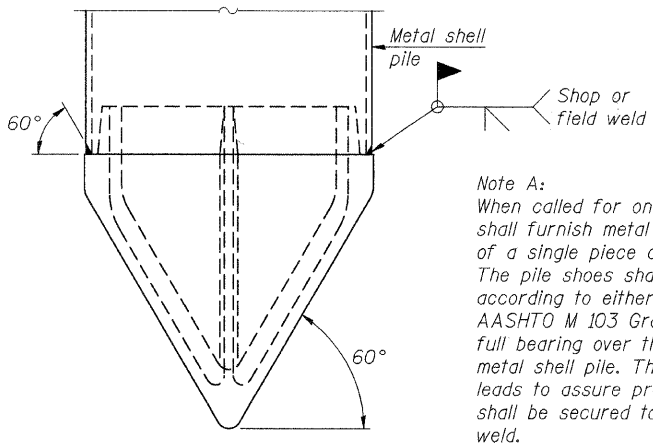
Note:
 Forms for encasement may be omitted when soil conditions permit.



END PLATE ATTACHMENT

BILL OF MATERIAL
 (Two Abutments)

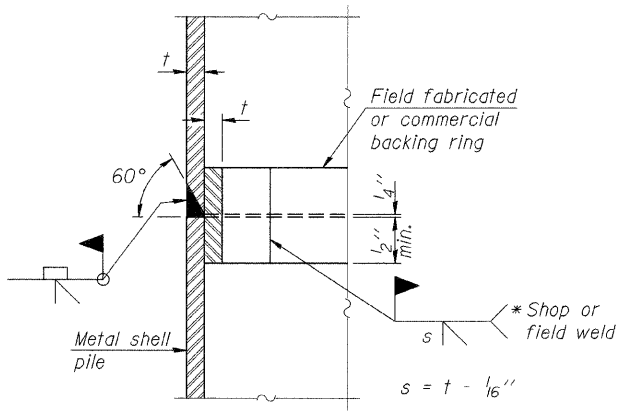
Item	Unit	Total
Furnishing Metal Shell Piles 12" x 0.179"	Lin. Ft.	910
Driving Piles	Lin. Ft.	910
Test Pile Metal Shell	Each	2
Pile Shoes	Each	14



METAL SHELL PILE SHOE ATTACHMENT

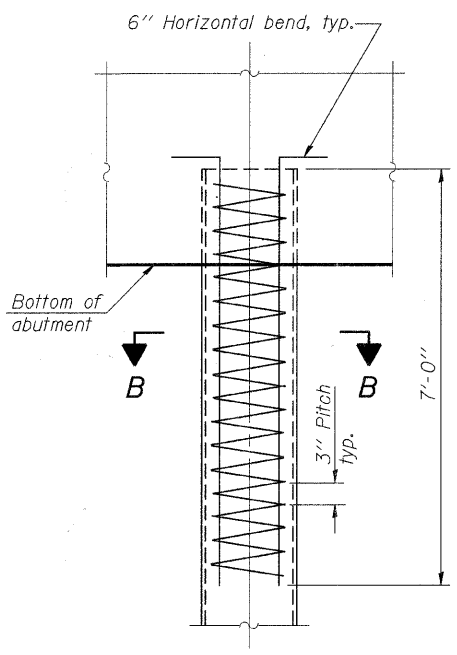
(See Note A)

Note A:
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.



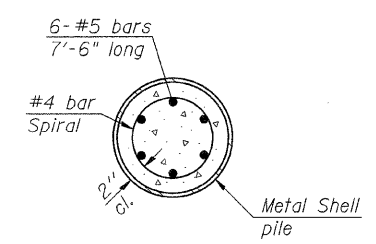
COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

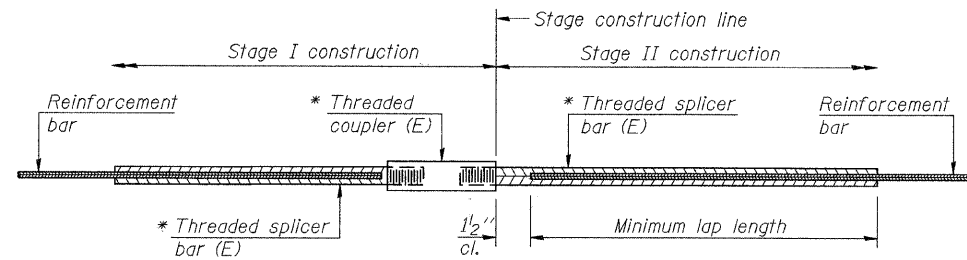
METAL SHELL REINFORCEMENT AT ABUTMENTS



SECTION B-B

Note:
 The metal shell piles shall be according to ASTM A 252 Grade 3.

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 TENG SHEET



STANDARD BAR SPLICER ASSEMBLY

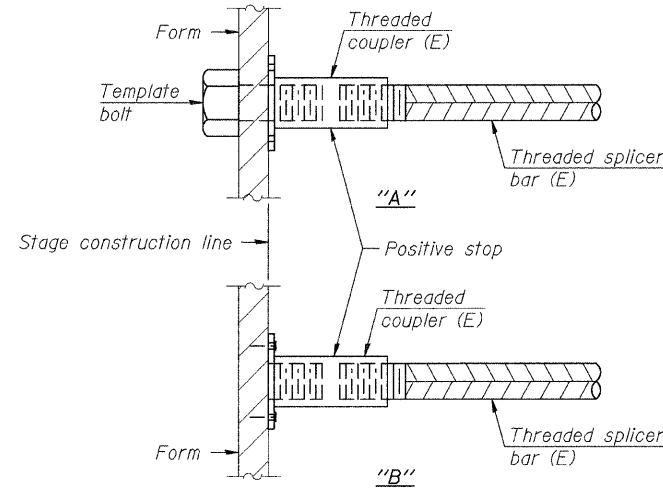
Bar size to be spliced	Minimum Lap Lengths			
	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

Table 1: Black bar, 0.8 Class C
 Table 2: Black bar, Top bar lap, 0.8 Class C
 Table 3: Epoxy bar, 0.8 Class C
 Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

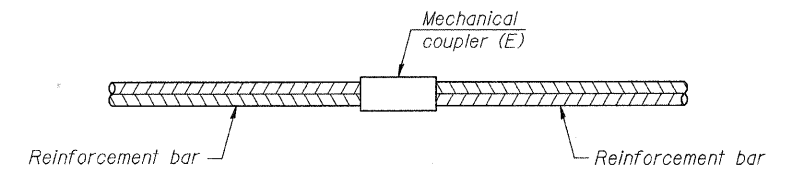
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

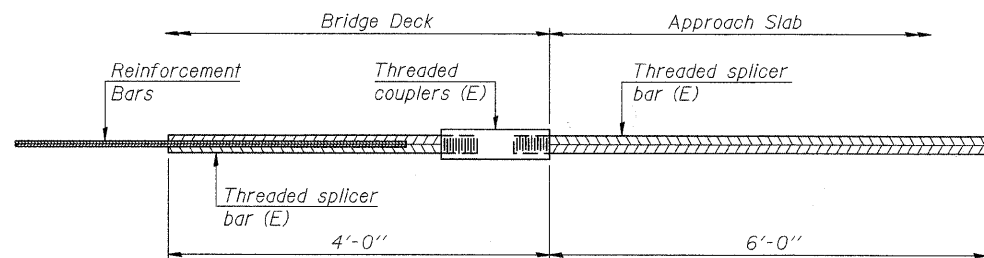


STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

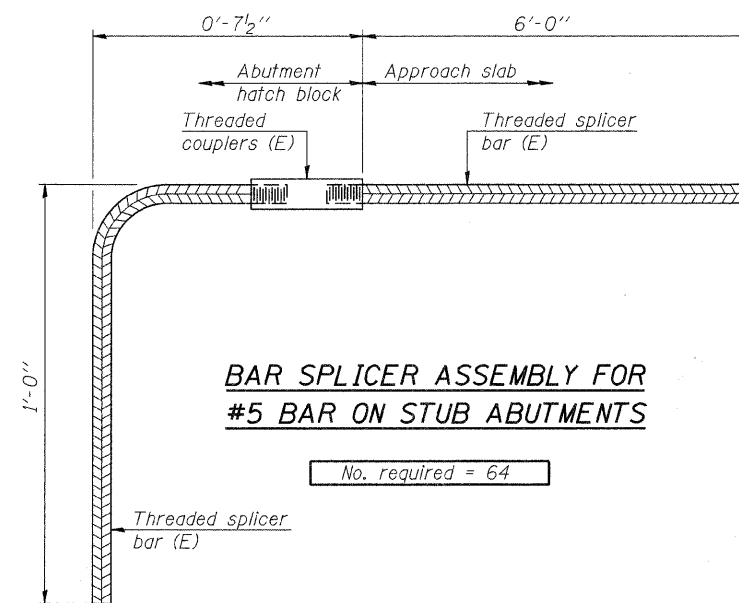
NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 64

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 TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 GREEN GARDEN TOWNSHIP
 88TH AVENUE (PEOTONE ROAD)

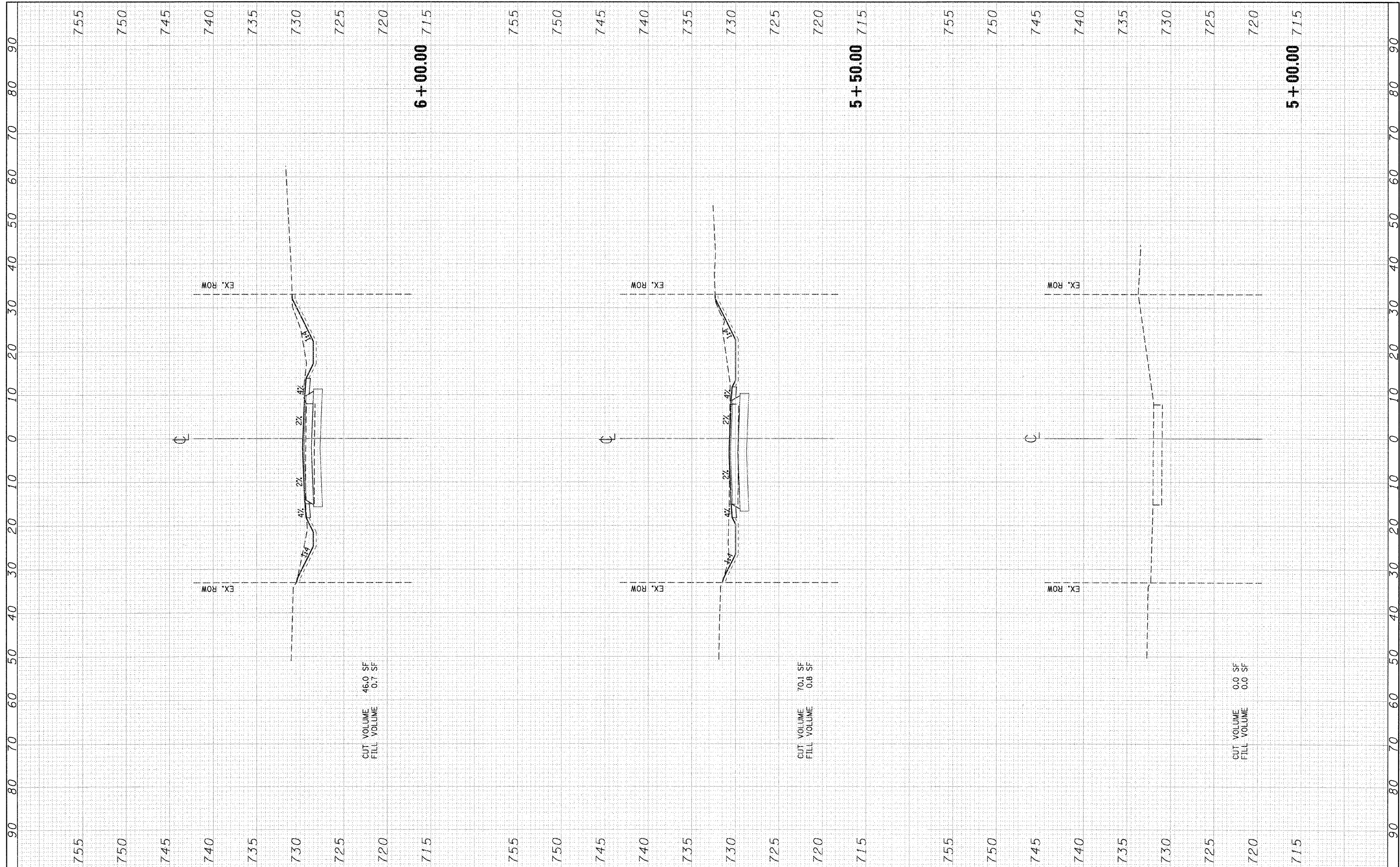
BAR SPLICER ASSEMBLY DETAILS

SCALE: N.T.S.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	03-07118-00-BR	WILL	43	30
CONTRACT NO. 63156				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

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NO.	TEMPLATE		
	AREAS		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
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CUT VOLUME 46.0 SF
FILL VOLUME 0.7 SF

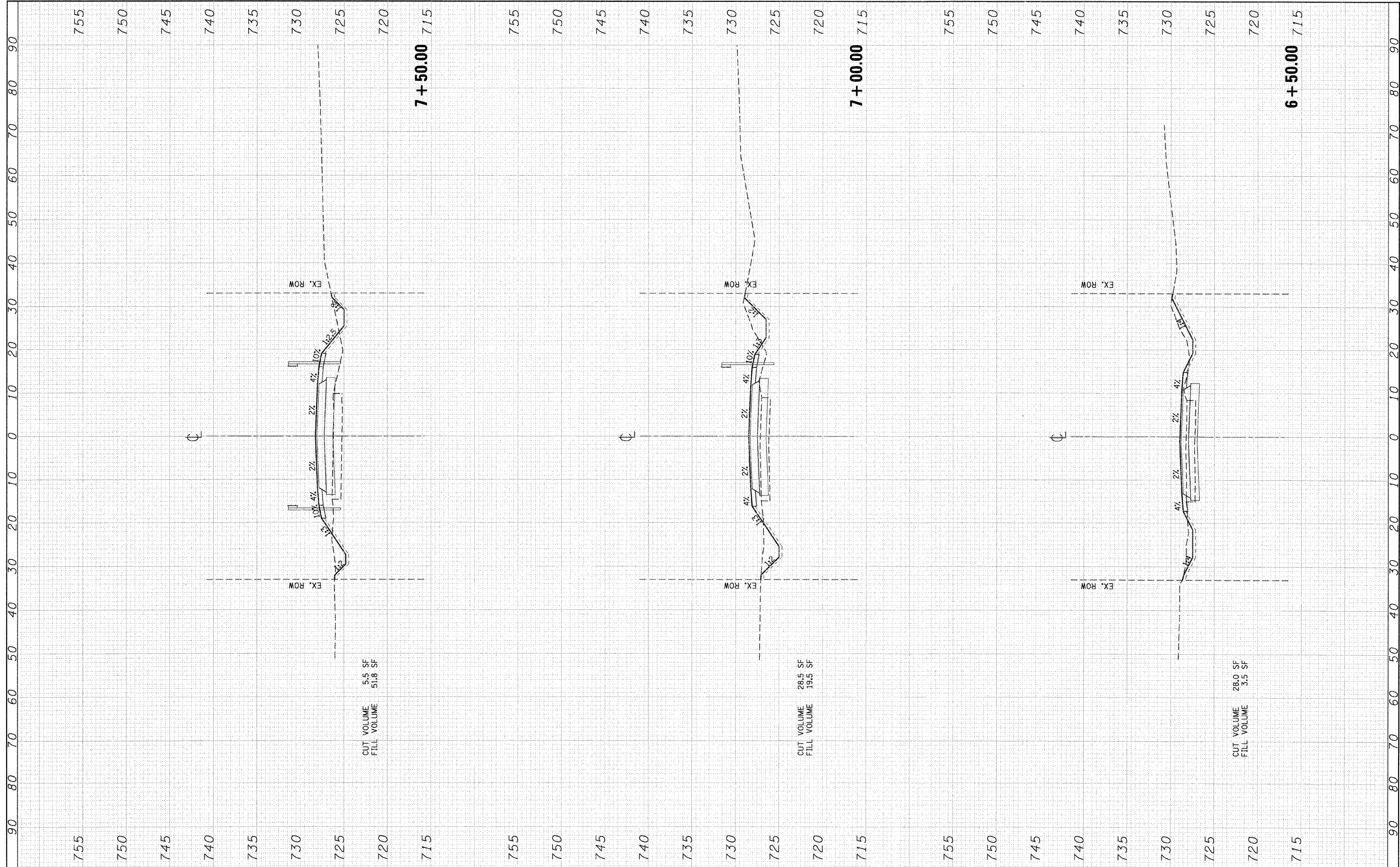
CUT VOLUME 70.1 SF
FILL VOLUME 0.8 SF

CUT VOLUME 0.0 SF
FILL VOLUME 0.0 SF

FILE NAME =	USER NAME = #USER#	DESIGNED - PFR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)	CROSS SECTIONS 88TH AVENUE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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FINAL SURVEY	SURVEYED	BY	DATE
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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CUT VOLUME 5.5 SF
FILL VOLUME 51.8 SF

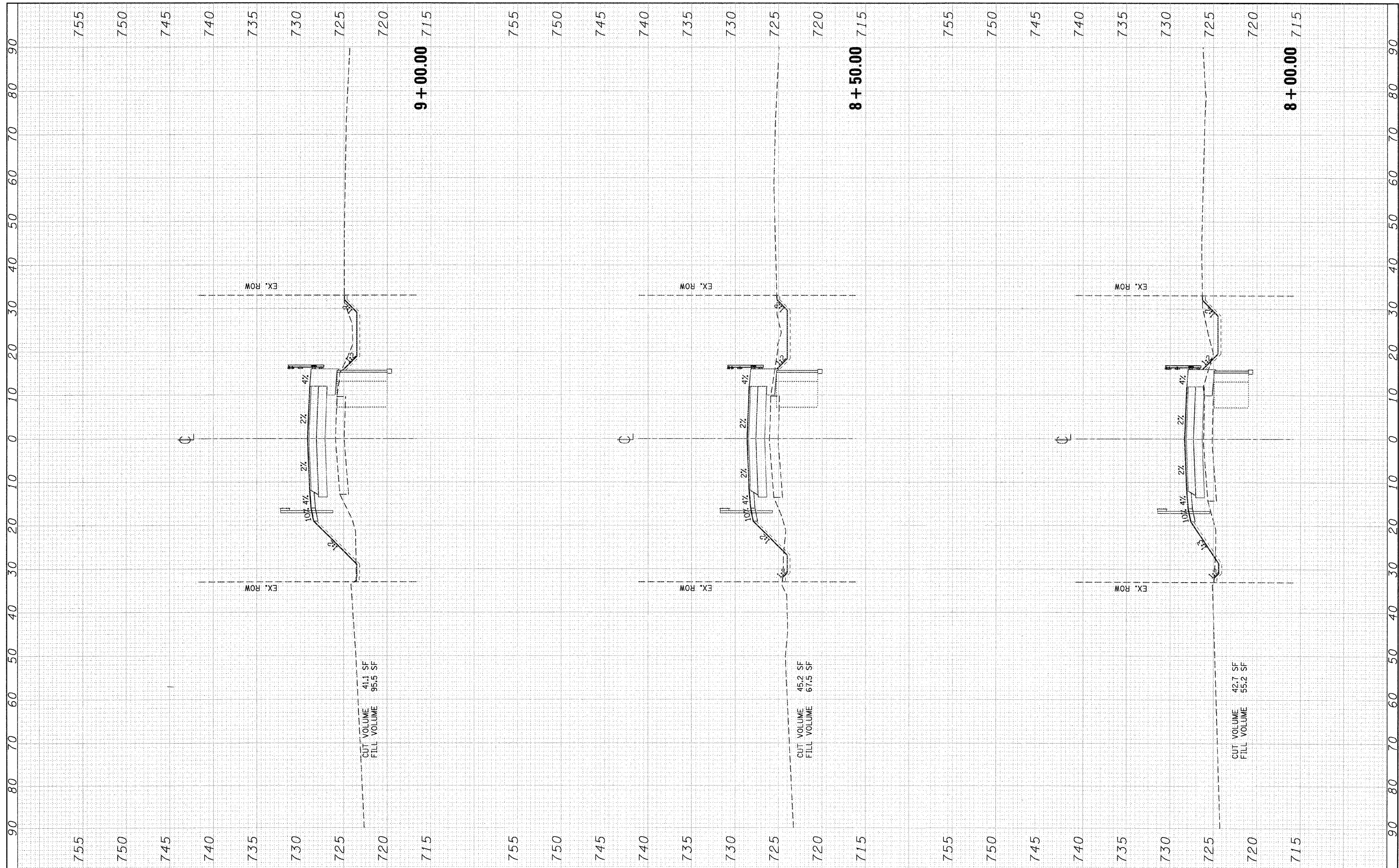
CUT VOLUME 28.5 SF
FILL VOLUME 19.5 SF

CUT VOLUME 28.0 SF
FILL VOLUME 3.5 SF

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CONTRACT NO. 63156													
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT													

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
GREEN GARDEN TOWNSHIP
88TH AVENUE (PEOTONE ROAD)

CROSS SECTIONS
88TH AVENUE

SCALE: 1"=10' VERT. 1"=5' 8+00.00 9+00.00

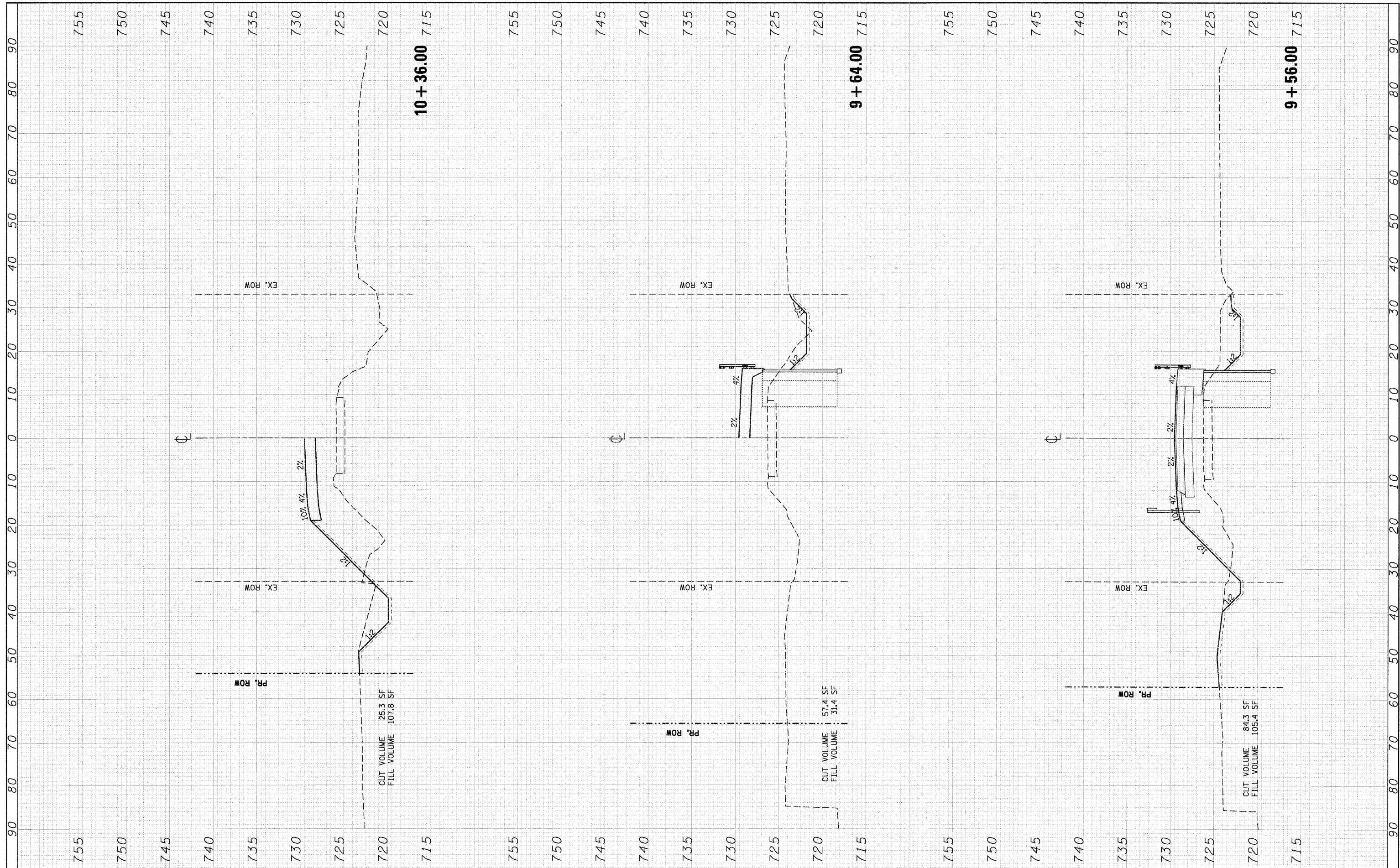
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N/A	03-07118-00-BR	WILL	43	33
CONTRACT NO. 63156				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TENGO & ASSOCIATES, INC.
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CHICAGO, ILLINOIS

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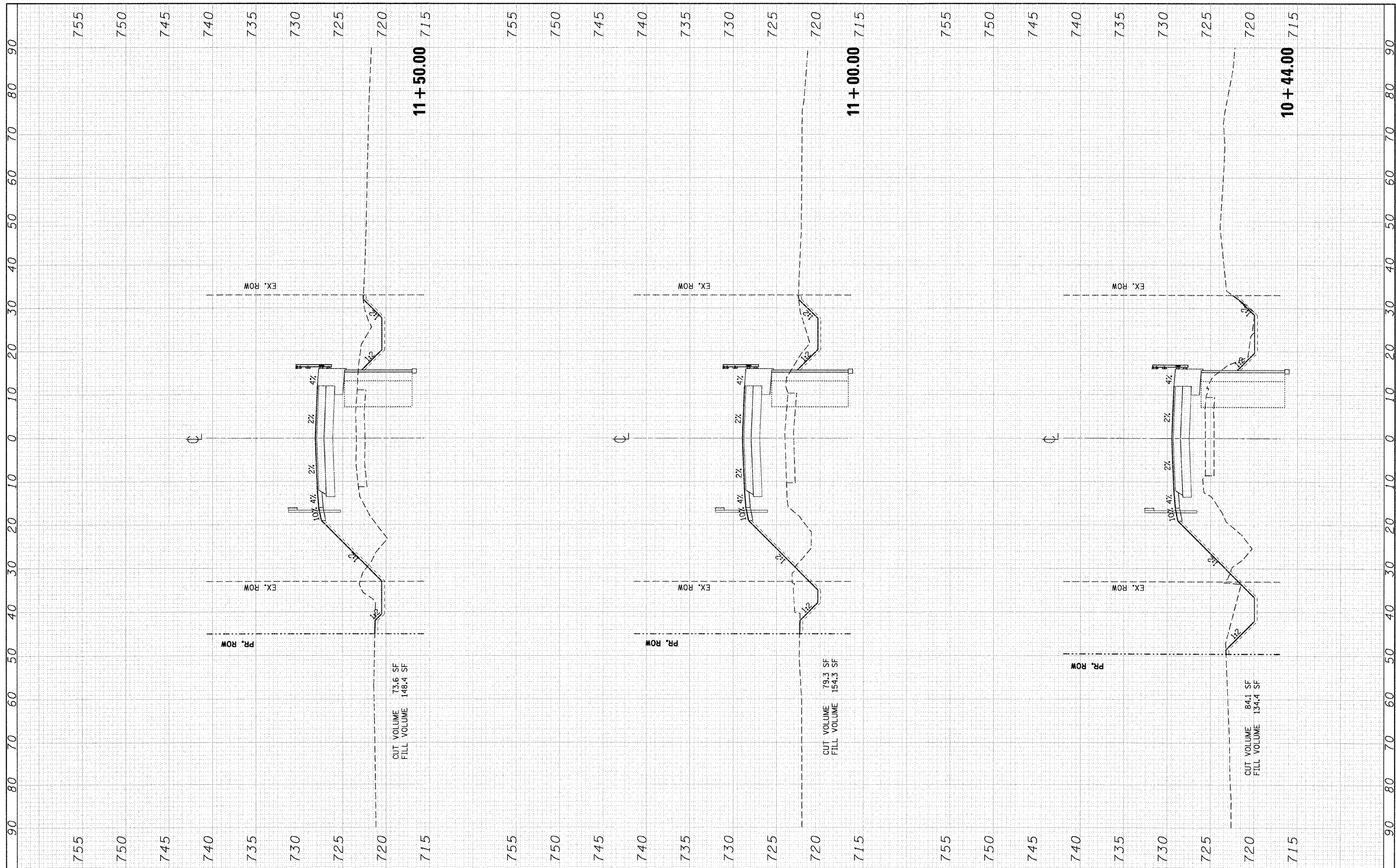
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NOTE BOOK NO.	PLOTTED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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	AREAS CHECKED		
	AREAS CHECKED		



CUT VOLUME 73.6 SF
FILL VOLUME 148.4 SF

CUT VOLUME 79.3 SF
FILL VOLUME 154.3 SF

CUT VOLUME 84.1 SF
FILL VOLUME 134.4 SF

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
GREEN GARDEN TOWNSHIP
88TH AVENUE (PEOTONE ROAD)

CROSS SECTIONS
88TH AVENUE

SCALE: 1"=10' VERT. 1"=5' 10+44.00 11+50.00

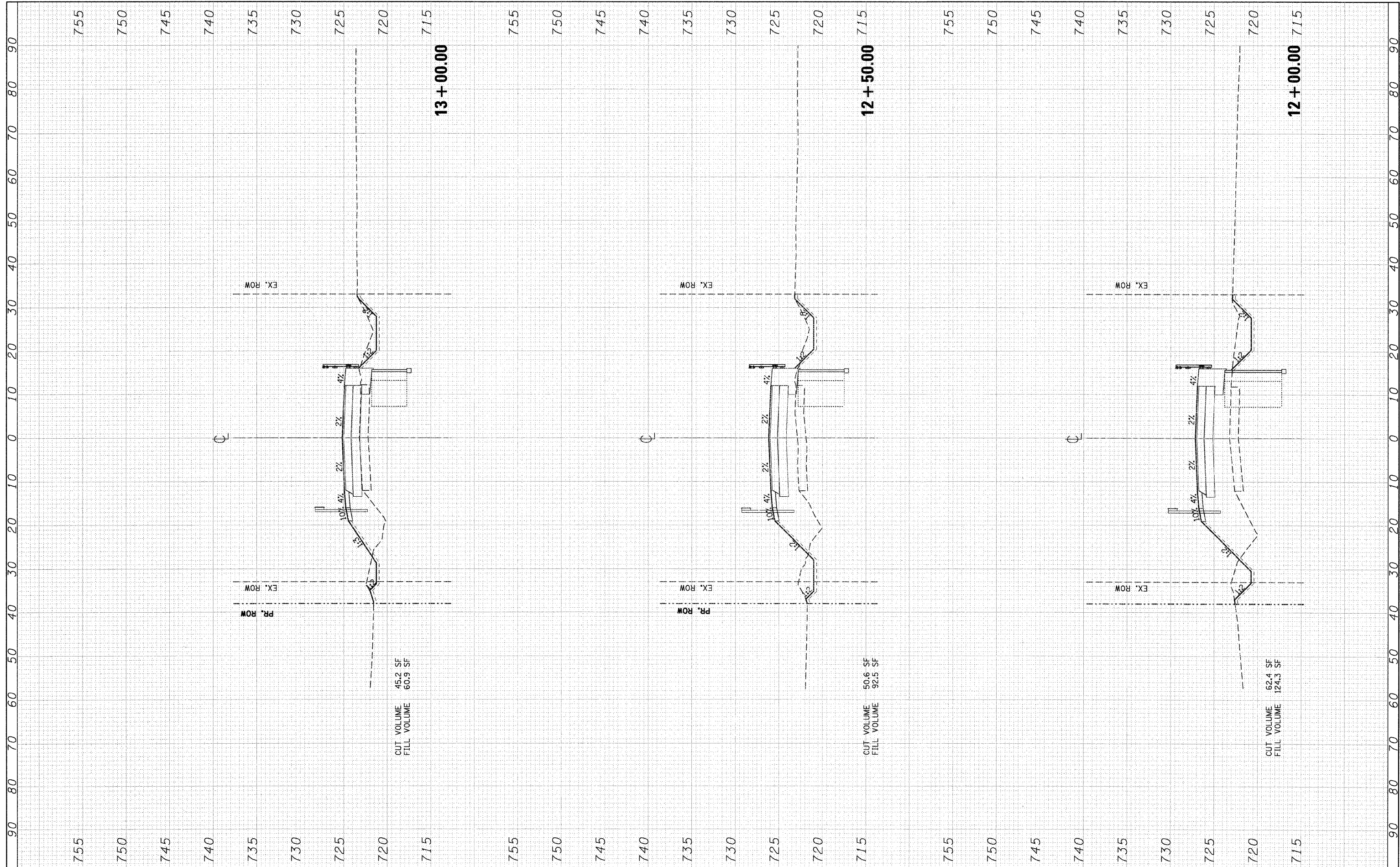
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N/A	03-07118-00-BR	WILL	43	35
CONTRACT NO. 63156				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TENG & ASSOCIATES, INC.
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CHICAGO, ILLINOIS

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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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CUT VOLUME 45.2 SF
FILL VOLUME 60.9 SF

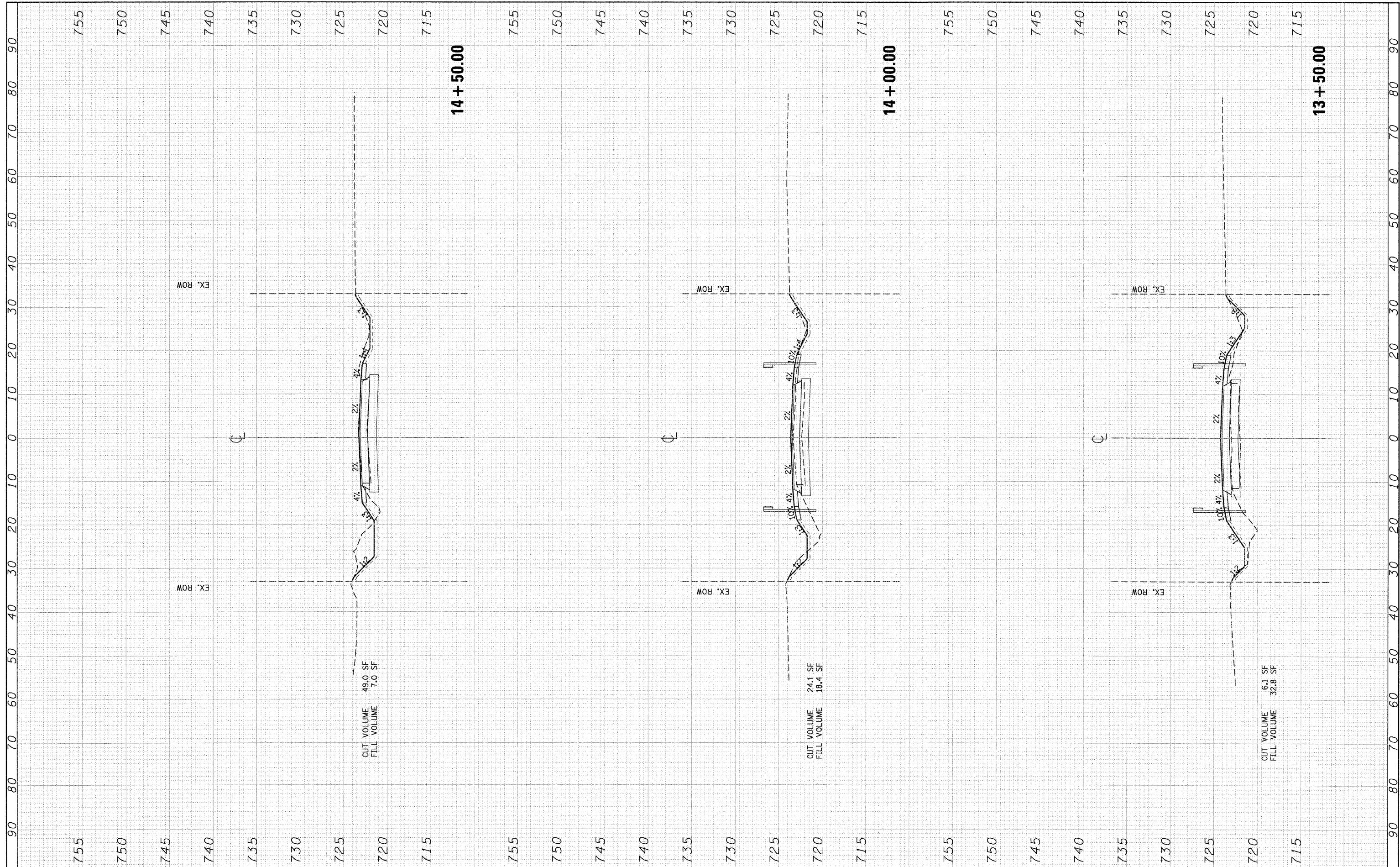
CUT VOLUME 50.6 SF
FILL VOLUME 92.5 SF

CUT VOLUME 62.4 SF
FILL VOLUME 124.3 SF

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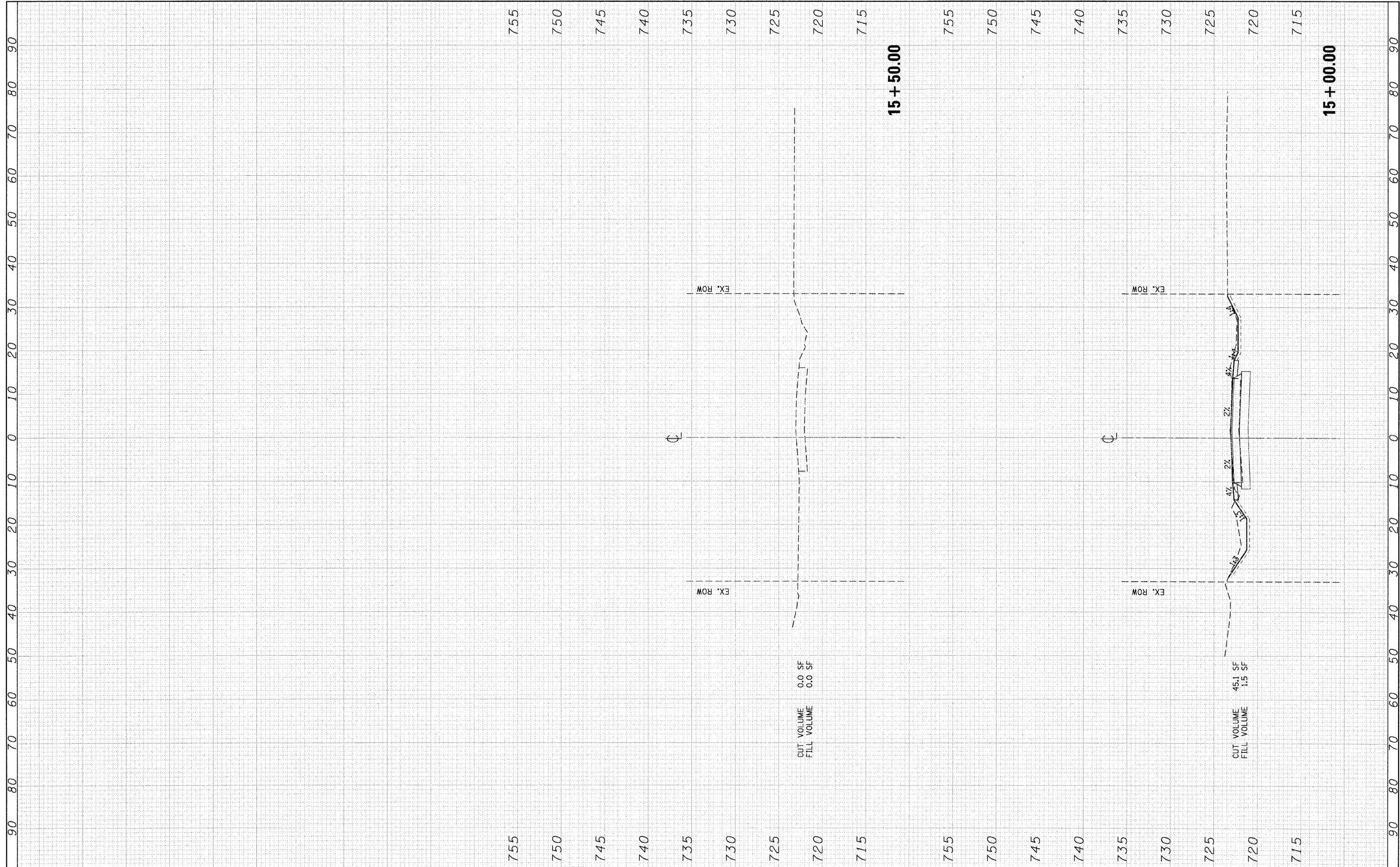
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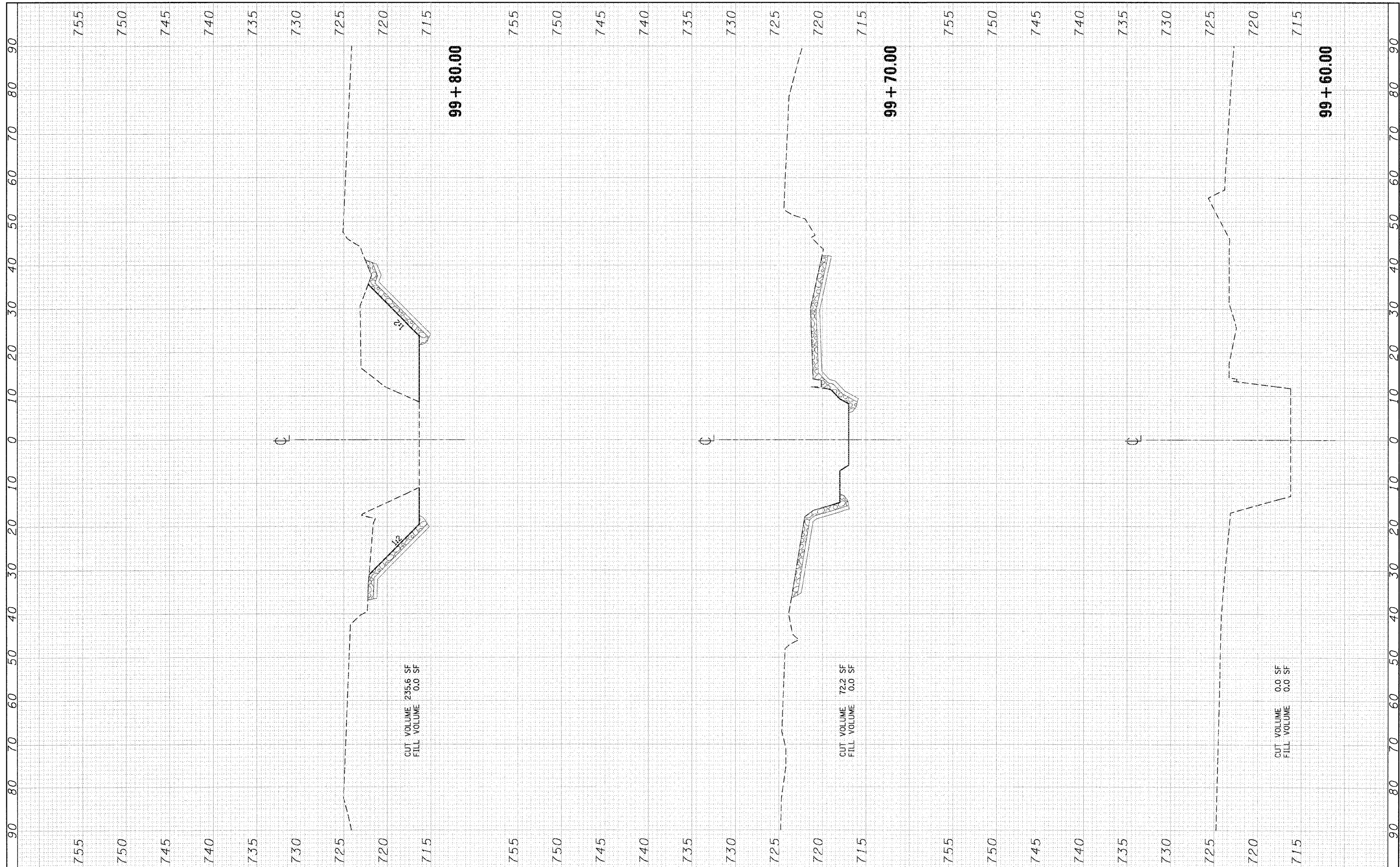
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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	AREAS CHECKED		

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



CUT VOLUME 235.6 SF
FILL VOLUME 0.0 SF

CUT VOLUME 72.2 SF
FILL VOLUME 0.0 SF

CUT VOLUME 0.0 SF
FILL VOLUME 0.0 SF

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
GREEN GARDEN TOWNSHIP
88TH AVENUE (PEOTONE ROAD)

CROSS SECTIONS
FORKED CREEK

SCALE: 1"=10' VERT. 1"=5' 99+60.00 99+80.00

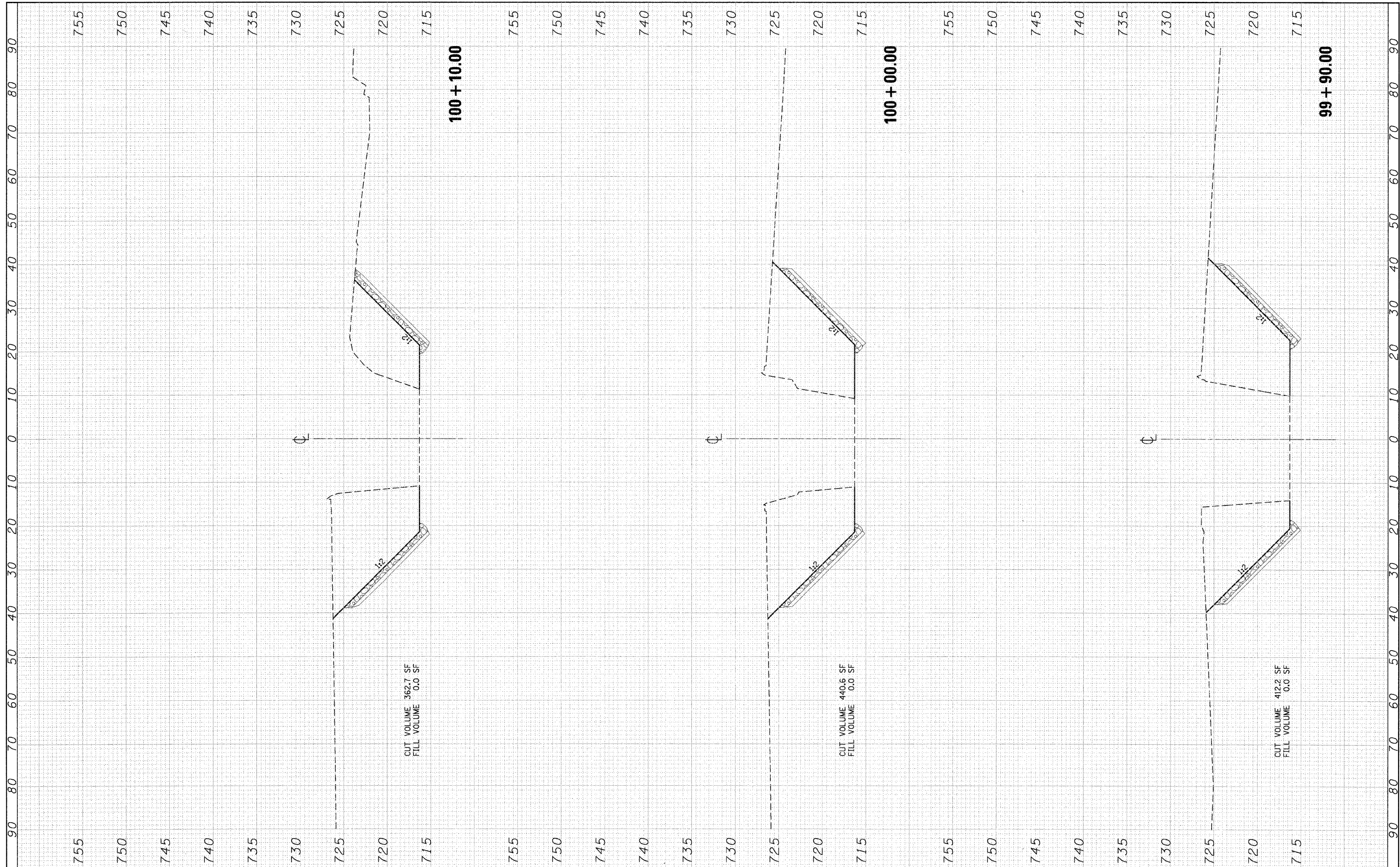
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N/A	03-07118-00-BR	WILL	43	39
CONTRACT NO. 63156				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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



CUT VOLUME 362.7 SF
FILL VOLUME 0.0 SF

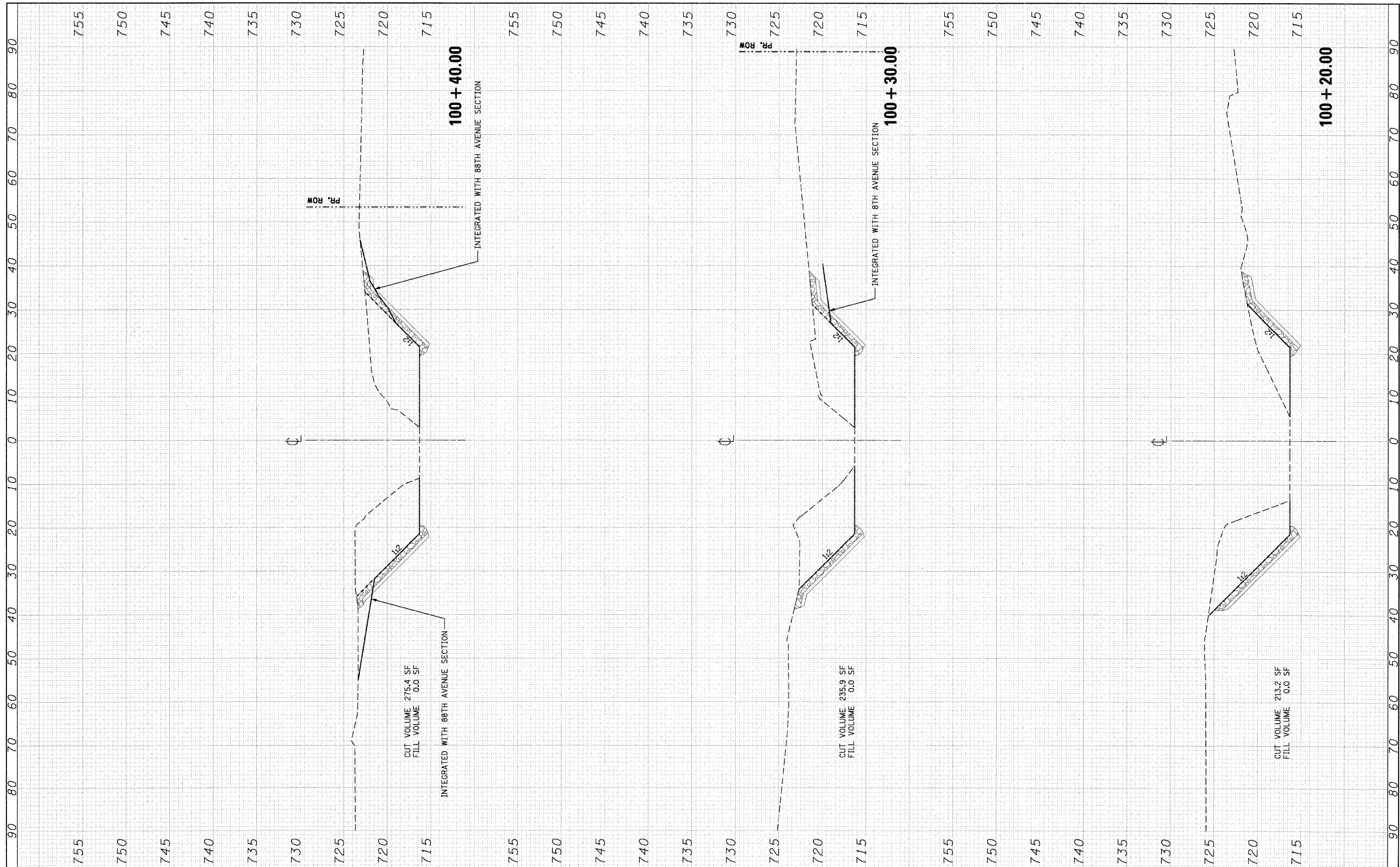
CUT VOLUME 440.6 SF
FILL VOLUME 0.0 SF

CUT VOLUME 412.2 SF
FILL VOLUME 0.0 SF

FILE NAME =	USER NAME = *USER*	DESIGNED - PFR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)	CROSS SECTIONS FORKED CREEK	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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FINAL SURVEY	SURVEYED	BY	DATE
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	AREAS CHECKED		
	AREAS CHECKED		

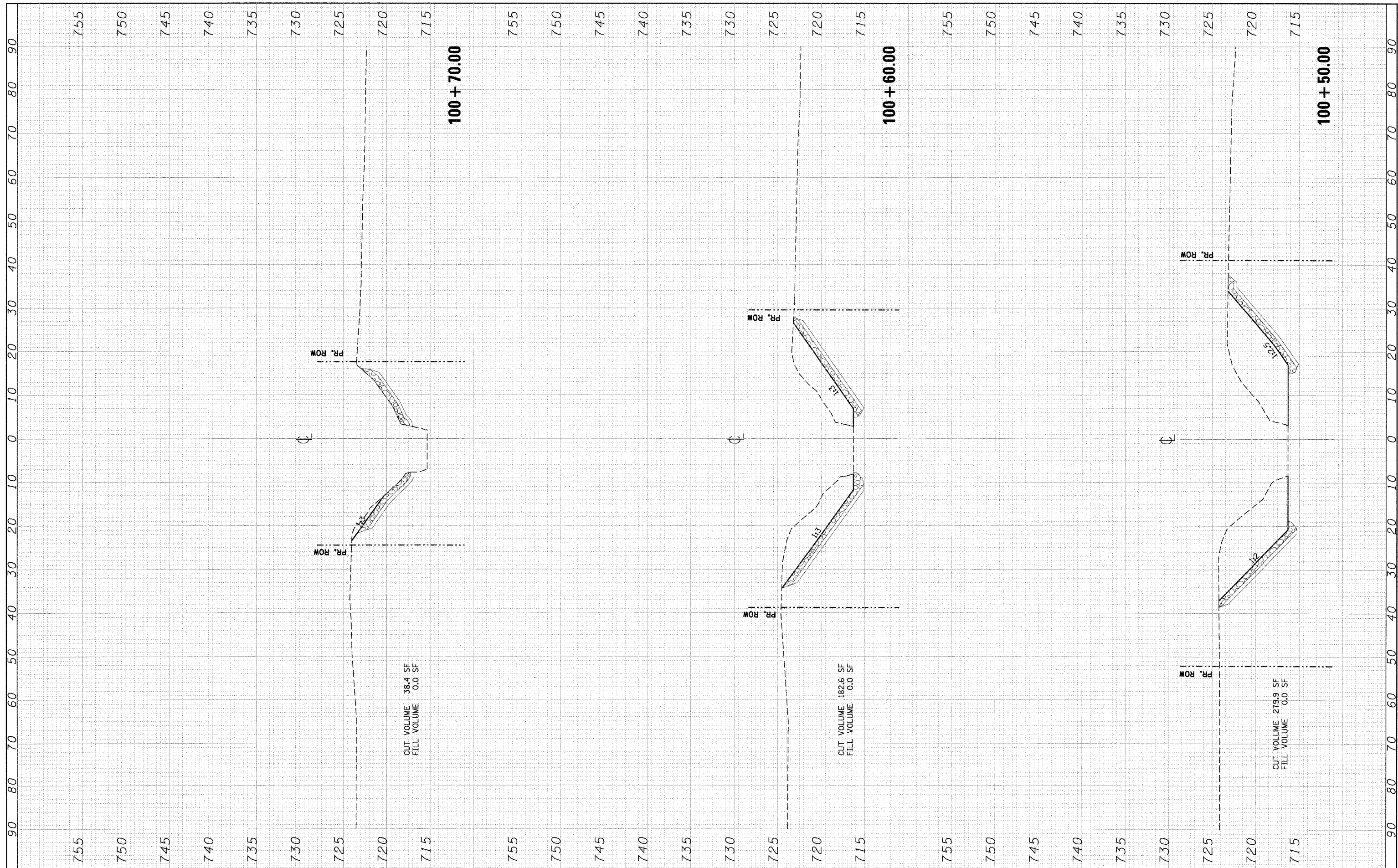
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		



FILE NAME =	USER NAME = *USER*	DESIGNED - PFR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)	CROSS SECTIONS FORKED CREEK	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL#	PLOT SCALE = *SCALE*	DRAWN - PFR	REVISED -			N/A	03-07118-00-BR	WILL	43	41	
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = 10-26-2010	CHECKED - KPS	REVISED -			CONTRACT NO. 63156					
		DATE - 10/27/10	REVISED -			SCALE: 1"=10'	VERT. 1"=5'	100+20.00	100+40.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

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

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



CUT VOLUME 38.4 SF
FILL VOLUME 0.0 SF

CUT VOLUME 182.6 SF
FILL VOLUME 0.0 SF

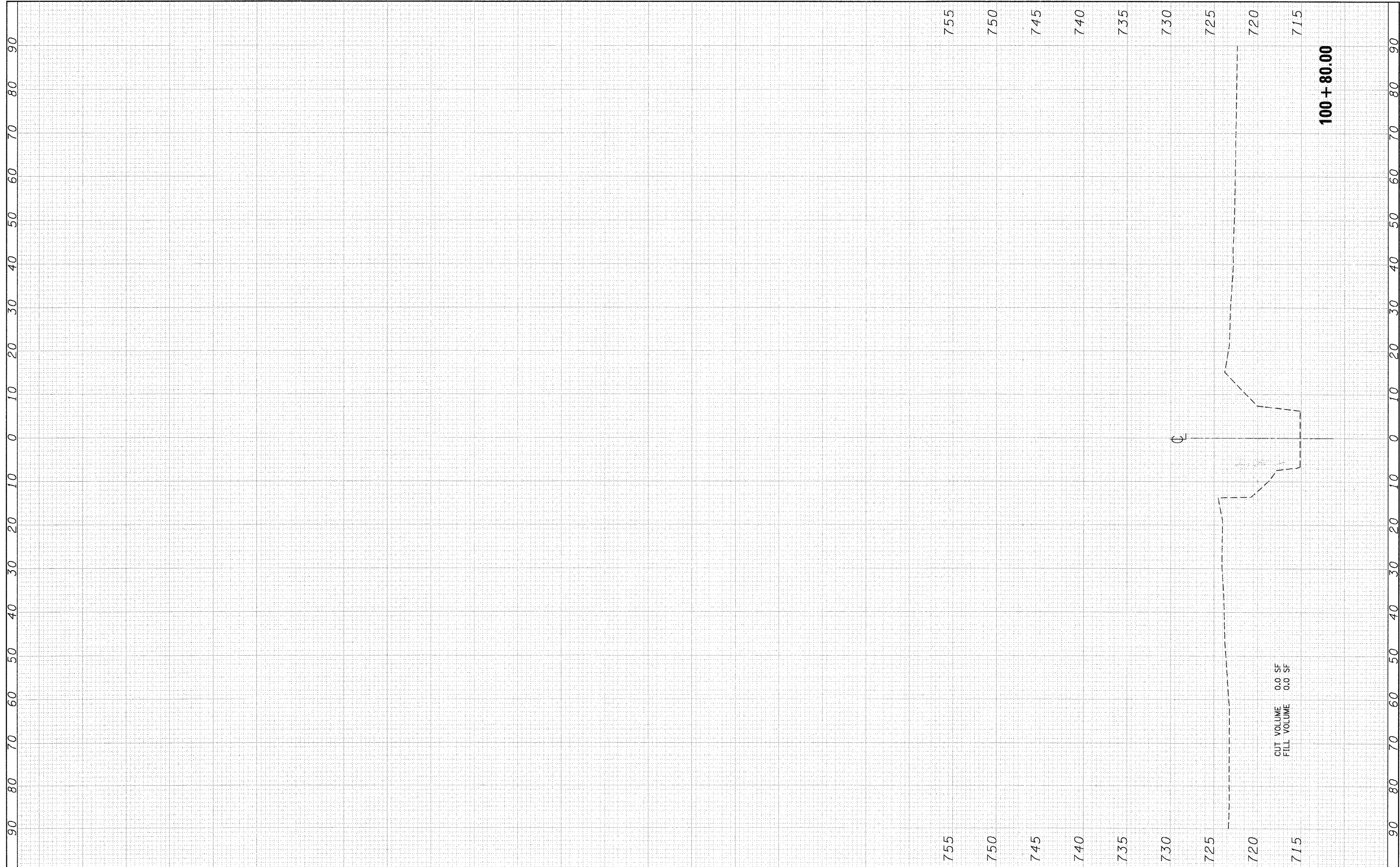
CUT VOLUME 279.9 SF
FILL VOLUME 0.0 SF

FILE NAME = *FILEL*	USER NAME = #USER#	DESIGNED - PFR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)	CROSS SECTIONS FORKED CREEK		F.A. RTE. N/A	SECTION 03-07118-00-BR	COUNTY WILL	TOTAL SHEETS 43	SHEET NO. 42	
	PLOT SCALE = *SCALE*	DRAWN - PFR	REVISED -		SCALE: 1"=10'	VERT. 1"=5'	100+50.00	100+70.00	CONTRACT NO. 63156			
	PLOT DATE = 10-26-2010	CHECKED - KPS	REVISED -						ILLINOIS FED. AID PROJECT			
		DATE - 10/27/10	REVISED -									



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

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



100 + 80.00

CUT VOLUME 0.0 SF
FILL VOLUME 0.0 SF

FILE NAME =	USER NAME = #USER#	DESIGNED - PFR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION GREEN GARDEN TOWNSHIP 88TH AVENUE (PEOTONE ROAD)	CROSS SECTIONS FORKED CREEK	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - PFR	REVISED -			N/A	03-07118-00-BR	WILL	43	43	
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = #SCALE#	CHECKED - KPS	REVISED -			CONTRACT NO. 63156					
	PLOT DATE = 10-26-2010	DATE - 10/27/10	REVISED -			SCALE: 1"=10'	VERT. 1"=5'	100+80.00	100+80.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	