

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00PV	MCHENRY	95	1
FED. ROAD DIST. NO 1		ILLINOIS	CONTRACT NO. 61D31	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS SEE SHEET NO. 2

TRAFFIC DATA


ADT: CHURCH STREET 2012 TRAFFIC 2040 TRAFFIC
 950 VPD 1,400 VPD

ROADWAY SPEED POSTED DESIGN SPEED
CHURCH STREET 20-25 MPH 30 MPH

DESIGN DESIGNATION

MUN 8500 (CHURCH STREET) - MAJOR COLLECTOR

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811



Know what's below.
Call before you dig.

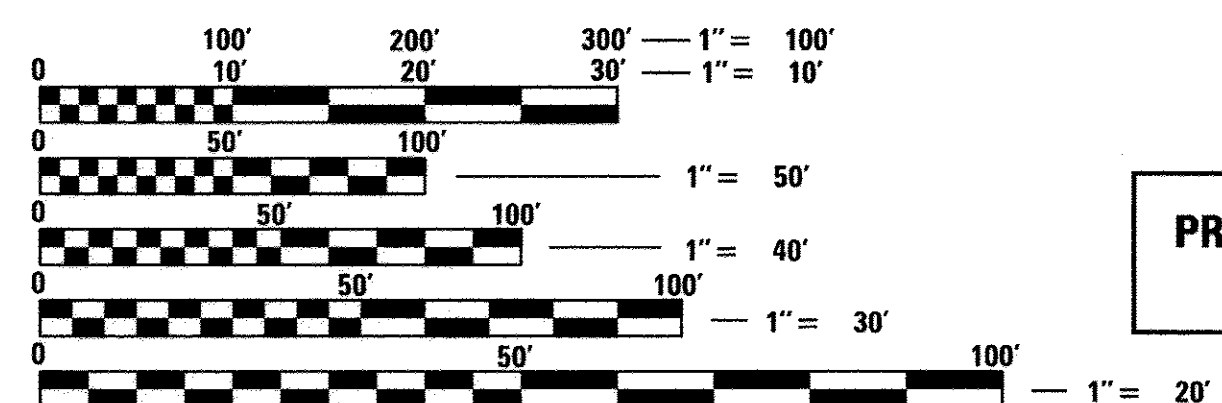
PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

MUN 8500 (CHURCH STREET)
FROM SPRING GROVE ROAD TO JOHNSBURG ROAD
RECONSTRUCTION, RESURFACING, DRAINAGE
AND INTERSECTION IMPROVEMENTS

SECTION: 15-00013-00-PV
PROJECT: TEM-4003(812)
VILLAGE OF JOHNSBURG
MCHENRY COUNTY
JOB: C-91-469-16



Sean G. Murphy
SEAN G. MURPHY, P.E.
EXPIRES: 11-30-17

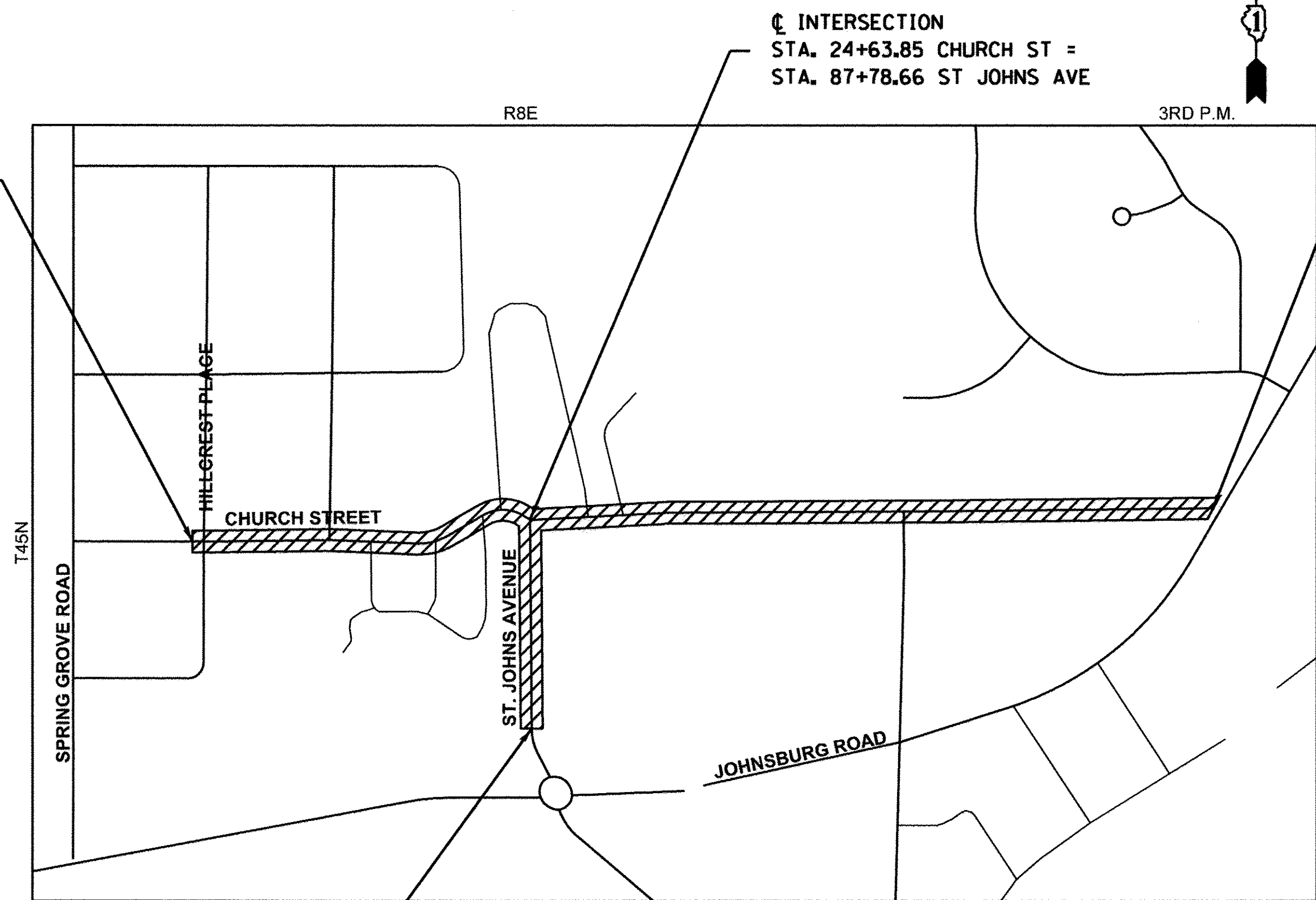


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

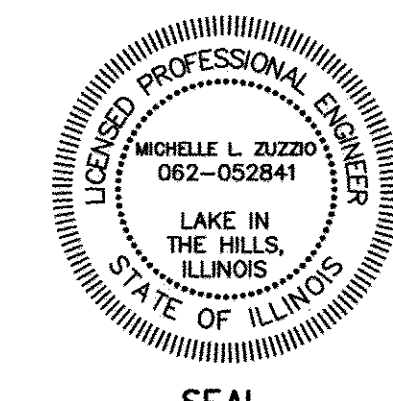


420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050
Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com
ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

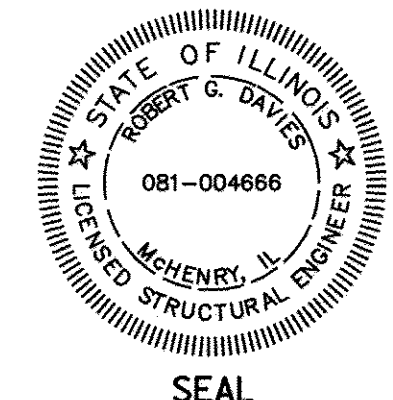
PROJECT ENGINEER: M. ZUZZIO
PROJECT MANAGER: A. CHAUDHRY
CONTRACT NO. 61D31



PROJECT LOCATION MAP
MCHENRY COUNTY, ILLINOIS
N.T.S.
NET AND GROSS LENGTH OF PROJECT = 3,943 FT. (0.747 MILES)



Michelle L. Zuzzio
MICHELLE L. ZUZZIO, P.E.
EXPIRES: 11-30-17



Robert G. Davies
ROBERT G. DAVIES, S.E., P.E.
EXPIRES: 11/30/2018
STRUCTURE SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 11-29 20 16

Christopher Holt
VILLAGE OF JOHNSBURG
VILLAGE ADMINISTRATOR

PASSED DECEMBER 22 2016
Christopher Holt
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW December 23 20 16
John F. ...
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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

DATE	
BY	
REVISIONS:	
REVISED	CHECKED
ALIGNMENT	CHECKED
NOTE BOOK	CHECKED
PLAN	CHECKED
NO.	

DATE	
BY	
REVISIONS:	
REVISED	CHECKED
GRADES	CHECKED
STRUCTURE	CHECKED
PROFILE	CHECKED
NOTE BOOK	CHECKED
NO.	

INDEX OF SHEETS

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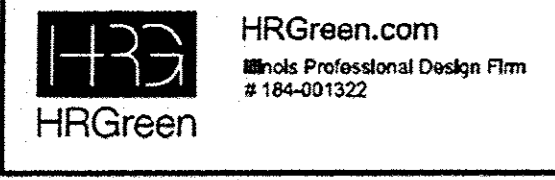
DISTRICT ONE DETAILS

STANDARD NO.	LIST OF DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15'(4.5m)
BD-02	DRIVEWAY DETAILS DISTANCE BETWEEN R.O.W. AND FACE OF CURB < 15'(4.5m)
BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-16	DROP MANHOLE DETAILS
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS, SHEET 7 OR 7
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-22	ARTERIAL ROAD INFORMATION SIGN

STATE STANDARDS

STANDARD NO.	LIST OF DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-02	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-02	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-02	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-03	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602006-04	CATCH BASIN TYPE B
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
602401-03	MANHOLE TYPE A
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604031-03	GRATE TYPE 7
604036-03	GRATE TYPE 8
604041-03	FRAME AND GRATE TYPE 9
604051-04	FRAME AND GRATE TYPE 11
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606101-05	TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
606201-03	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
606401-02	PAVED DITCH
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
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
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS

HRG PROJECT NO.: 8650350
 HRG PROJ CONTACT: 8650350-shr-gan-01.dgn
 FILE NUMBER: 15-0013-00-PV
 PEN TABLE: 10/18/2017



USER NAME = mzuz210	DESIGNED - MZ	REVISED -
PLOT SCALE = NTS	DRAWN - DMS	REVISED -
PLOT DATE = 1/18/2017	CHECKED -	REVISED -
	DATE - 1/18/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS & STATE STANDARDS
CHURCH STREET & ST. JOHN'S AVENUE**

SCALE: NTS	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.
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MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	2
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-400318121			CONTRACT NO. 61D31	

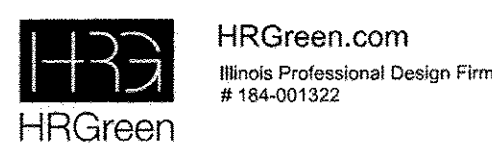
DATE	BY	SURVEYED	GRADES CHECKED	ALIGNMENT CHECKED	RT. OF WAY CHECKED
		PLAN	NOTE BOOK	NO.	

DATE	BY	SURVEYED	GRADES CHECKED	B.M. NOTED	STRUCTURE NOTATIONS CHECKED
		PROFILE	NOTE BOOK	NO.	

HRG PROJECT NO.: 06650350
 HRG PROJ. CONTACT: 06650350-h - m01.cgm
 FILE NAME: IL - df_b - j.cfg
 PLOT DRIVER: to label.bl
 PEN TABLE:

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	STU	STE	100% LOCAL
				ROADWAY 80% FEDERAL 20% LOCAL	STREETSCAPE 80% FEDERAL 20% LOCAL	
				CONSTRUCTION CODE		
				0004	0031	0004
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	104	26		78
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	238	48		190
+ 20101200	TREE ROOT PRUNING	EACH	3			3
+ 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	8		8	
20200100	EARTH EXCAVATION	CU YD	3,858	3,687	100	71
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,589	1,346	200	43
20800150	TRENCH BACKFILL	CU YD	1,693	928		765
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2,811	2,811		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	9,457	7,026	820	1,611
+ 25000210	SEEDING, CLASS 2A	ACRE	1.95	1.45	0.17	0.33
+ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	183	136	16	31
+ 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	183	136	16	31
+ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	183	136	16	31
+ 25100630	EROSION CONTROL BLANKET	SQ YD	9,457	7,026	820	1,611
+ 25200110	SODDING, SALT TOLERANT	SQ YD	535	401		134
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	197	146	17	34
28000400	PERIMETER EROSION BARRIER	FOOT	4,787	4,787		
28000510	INLET FILTERS	EACH	37	37		
28100105	STONE RIPRAP, CLASS A3	SQ YD	3	3		
* 30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	936	936		
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	6,917	6,860		57
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	5,355	269	5,086	
31101800	SUBBASE GRANULAR MATERIAL, TYPE B 10"	SQ YD	3			3
35101900	AGGREGATE BASE COURSE, TYPE B 7"	SQ YD	532	388		144
35501300	HOT-MIX ASPHALT BASE COURSE, 4"	SQ YD	917	374	225	318
35501301	HOT-MIX ASPHALT BASE COURSE, 4 1/4"	SQ YD	1,043		1,043	
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	2,423	2,345	78	
* 40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	22,806	21,649		1,157
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	13	10		3

* SPECIAL PROVISION + SPECIALTY ITEM



USER NAME = mzuz210	DESIGNED - MZ	REVISED -
PLOT SCALE = NTS	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	4
CONTRACT NO. 61D31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812	

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

PROFILE	REVISIONS	DATE
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		

HRG PROJECT NO.: 86650350
 HRG PROJ. CONTACT: 86650350 - h - m01.cdg
 FILE NAME: L - cr.d - / / c1g
 PLOT DRIVER: to.tbl
 PEN TABLE:

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	STU	STE	100% LOCAL
				ROADWAY 80% FEDERAL 20% LOCAL	STREETSCAPE 80% FEDERAL 20% LOCAL	
				CONSTRUCTION CODE		
				0004	0031	0004
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	780	158		622
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	72	60		12
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1,212	953	93	166
40701861	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"	SQ YD	5,833	5,799		34
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	238	77	100	61
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	33,506		33,506	
42400800	DETECTABLE WARNINGS	SQ FT	324		324	
44000100	PAVEMENT REMOVAL	SQ YD	8,069	7,879		190
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	6,681	6,681		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,936	939	614	383
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,985	779		1,206
44000600	SIDEWALK REMOVAL	SQ FT	12,205		12,205	
44004000	PAVED DITCH REMOVAL	FOOT	269	269		
44201713	CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	37	25		12
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	37	25		12
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	37	25		12
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	506	25		481
50102400	CONCRETE REMOVAL	CU YD	0.1	0.1		
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2		
50105220	PIPE CULVERT REMOVAL	FOOT	369	369		
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2		
54011003	PRECAST CONCRETE BOX CULVERTS 10' X 3'	FOOT	64	64		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1		
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	1	1		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	408	377		31
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	737	737		
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	177	177		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	828	502		326
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	645	645		
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	429	429		

* SPECIAL PROVISION + SPECIALTY ITEM



HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = muzzio	DESIGNED - MZ	REVISED -
PLLOT SCALE = NTS	CHECKED -	REVISED -
PLLOT DATE = 12/22/2016	DATE - 12/22/2016	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 CHURCH STREET & ST. JOHN'S AVENUE

SCALE: NTS SHEET NO. 2 OF 4 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	5
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812				

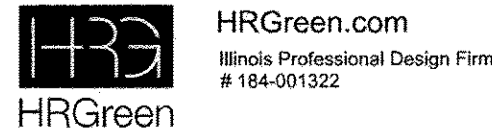
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NOTE BOOK	
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NOTE BOOK	
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DATE	
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DATE	
BY	
PROFILE	
NO.	
NOTE BOOK	
NO.	
DATE	
BY	

HRG PROJECT NO.: 86650350
 HRG PROJ. CONTACT: 86650350-h - m01cgn
 FILE NAME: L - df_b - 1 cfg
 PLOT DRIVER: to label_b1
 PEN TABLE:

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	STU	STE	100% LOCAL
				ROADWAY 80% FEDERAL 20% LOCAL	STREETSCAPE 80% FEDERAL 20% LOCAL	
				CONSTRUCTION CODE		
				0004	0031	0004
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	353	353		
550A0680	STORM SEWERS, CLASS A, TYPE 3 18"	FOOT	127	127		
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	254	254		
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	4	4		
60200905	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 9 FRAME AND GRATE	EACH	1	1		
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	12	10		2
60204805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2	2		
60206600	CATCH BASINS, TYPE B, TYPE 7 GRATE	EACH	3	3		
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2		
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6	5		1
60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2	2		
60236600	INLETS, TYPE A, TYPE 9 FRAME AND GRATE	EACH	1	1		
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	6	4		2
60240310	INLETS, TYPE B, TYPE 11 FRAME AND GRATE	EACH	1			1
60260700	INLETS TO BE ADJUSTED WITH NEW TYPE 5 FRAME, OPEN LID	EACH	1	1		
60500050	REMOVING CATCH BASINS	EACH	2	2		
60500060	REMOVING INLETS	EACH	2	1		1
60602500	CONCRETE GUTTER, TYPE A	FOOT	82	82		
60602800	CONCRETE GUTTER, TYPE B	FOOT	64			64
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	5,374	4,168		1,206
60617310	PAVED DITCH, TYPE B-22	FOOT	67	67		
+ 63200310	GUARDRAIL REMOVAL	FOOT	91	91		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9		
67100100	MOBILIZATION	LSUM	1	0.67	0.33	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	3		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3,372	3,372		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2,344	2,344		
+ 72000100	SIGN PANEL - TYPE 1	SQ FT	278	182	91	5
+ 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1			1
+ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	486	453		33

* SPECIAL PROVISION + SPECIALTY ITEM



USER NAME = mzuz210	DESIGNED - MZ	REVISED -
PLOT SCALE = NTS	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	6
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812				


DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
CHECKED	
PAID FILE NAME	
PLAN NO.	
NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS	
PROFILE	
NOTE BOOK NO.	

HRG PROJECT NO.: 06650350
 HRG PROJ. CONTACT: 06650350-h - m0a.dgn
 FILE NAME: IL - df_b - / crfg
 PLOT DRIVER: to lab01.d

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	STU	STE	100% LOCAL
				ROADWAY 80% FEDERAL 20% LOCAL	STREETSCAPE 80% FEDERAL 20% LOCAL	
				CONSTRUCTION CODE		
				0004	0031	0004
+ 7800100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	141	141		
+ 7800200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7,553	6,382		1,171
+ 7800400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,595	1,595		
+ 7800600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	218	218		
+ 7800650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	136	136		
+ 8040100	ELECTRIC SERVICE INSTALLATION	EACH	1		1	
* + 8040200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1		1	
+ 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,035		1,035	
+ 81028710	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3/4" DIA.	FOOT	8,033		8,033	
+ 81603080	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	8,033		8,033	
+ 81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0	FOOT	50		50	
+ 82500370	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP	EACH	1		1	
+ 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	399		399	
+ 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16	
+ A2000620	TREE, ACER PLATANOIDES (NORWAY MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
+ A2002879	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4		
+ A2004820	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
+ C2011136	SHRUB, SYRINGA X PERSICA (PERSIAN LILAC), 3' HEIGHT, BALLED AND BURLAPPED	EACH	3	2		1
* + X0326519	STEEL RAILING REMOVAL	FOOT	31	31		
* X0327902	MAILBOX REMOVE AND REPLACE	EACH	46	35		11
* + X0325714	FLASHING BEACON, POST MOUNTED, SOLAR POWERED INSTALLATION	EACH	4		4	
* + X0326654	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	57		57	
* + X0326696	SIGN AND POST	EACH	6	6		
* X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	14	6		8
* X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	4	4		
* X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1,570			1,570
* + X5090810	PEDESTRIAN RAIL (SPECIAL)	FOOT	73	73		
* X6020710	CATCH BASINS TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	EACH	9		9	
* + X6022312	DROP SANITARY MANHOLES, WITH TYPE 1 FRAME, CLOSED LID	EACH	2			2

* SPECIAL PROVISION
 + SPECIALTY ITEM

 HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = mzuz210 DESIGNED - MZ DRAWN - DMS PLOT SCALE = NTS PLOT DATE = 12/22/2016	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES CHURCH STREET & ST. JOHN'S AVENUE		MUN ST 8500	SECTION NO. 15-00013-00-PV	COUNTY MCHENRY	TOTAL SHEETS 95	SHEET NO. 7
	SCALE: NTS SHEET NO. 4 OF 4 SHEETS STA. TO STA.				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812		CONTRACT NO. 61031			

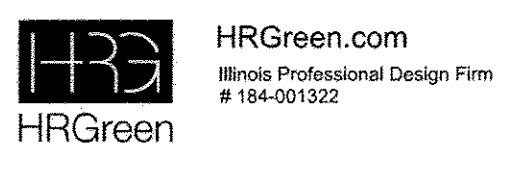
DATE _____ BY _____
 SURVEYED _____ CHECKED _____
 ALIGNMENT _____ CHECKED _____
 RT. OF WAY _____ CHECKED _____
 NO. _____ FILE NAME _____

DATE _____ BY _____
 SURVEYED _____ CHECKED _____
 GRADES _____ CHECKED _____
 B.M. NOTED _____
 STRUCTURE NOTATIONS CHECKED _____

HRG PROJECT NO.: 8650350
 HRG PROJ. CONTACT: 8650350-h - m01.cgm
 FILE NAME: 15-df-b-1.cwg
 PLOT DRIVER: to label.plt
 PEN TABLE:

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL	STU	STE	100% LOCAL
				ROADWAY 80% FEDERAL 20% LOCAL	STREETSCAPE 80% FEDERAL 20% LOCAL	
				CONSTRUCTION CODE		
* + X6022858	MANHOLES, TYPE A, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	11	0004	0031	0004 11
* X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	2	2		
* + X6640300	CHAIN LINK FENCE REMOVAL	FOOT	118	118		
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1		
* Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	326	326		
* Z0012450	CONCRETE STEPS	CU YD	9	9		
* Z0013798	CONSTRUCTION LAYOUT	LSUM	1	0.9	0.1	
* + Z0022810	FENCE REMOVAL (SPECIAL)	FOOT	135	135		
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	77	77		
* + Z0056900	SANITARY SEWER 8"	FOOT	2,301			2,301
* + XX009161	SANITARY SEWER SERVICE LONG	EACH	6			6
* + XX009162	SANITARY SEWER SERVICE SHORT	EACH	17			17
* XX008127	STAMPED ASPHALT	SQ YD	1,379		1,379	
+ D2003779	EVERGREEN, THUJA OCCIDENTALIS 'NIGRA', EASTERN ARBORVITAE (WHITE CEDAR), 7 FT HEIGHT, BALLED AND BURLAPPED	EACH	14	7		7

* SPECIAL PROVISION
 + SPECIALTY ITEM



USER NAME = m2uz210	DESIGNED - MZ	REVISED -
DRAWN - DMS	CHECKED -	REVISED -
PLOT SCALE = NTS	DATE - 12/22/16	REVISED -
PLOT DATE = 12/22/2016		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

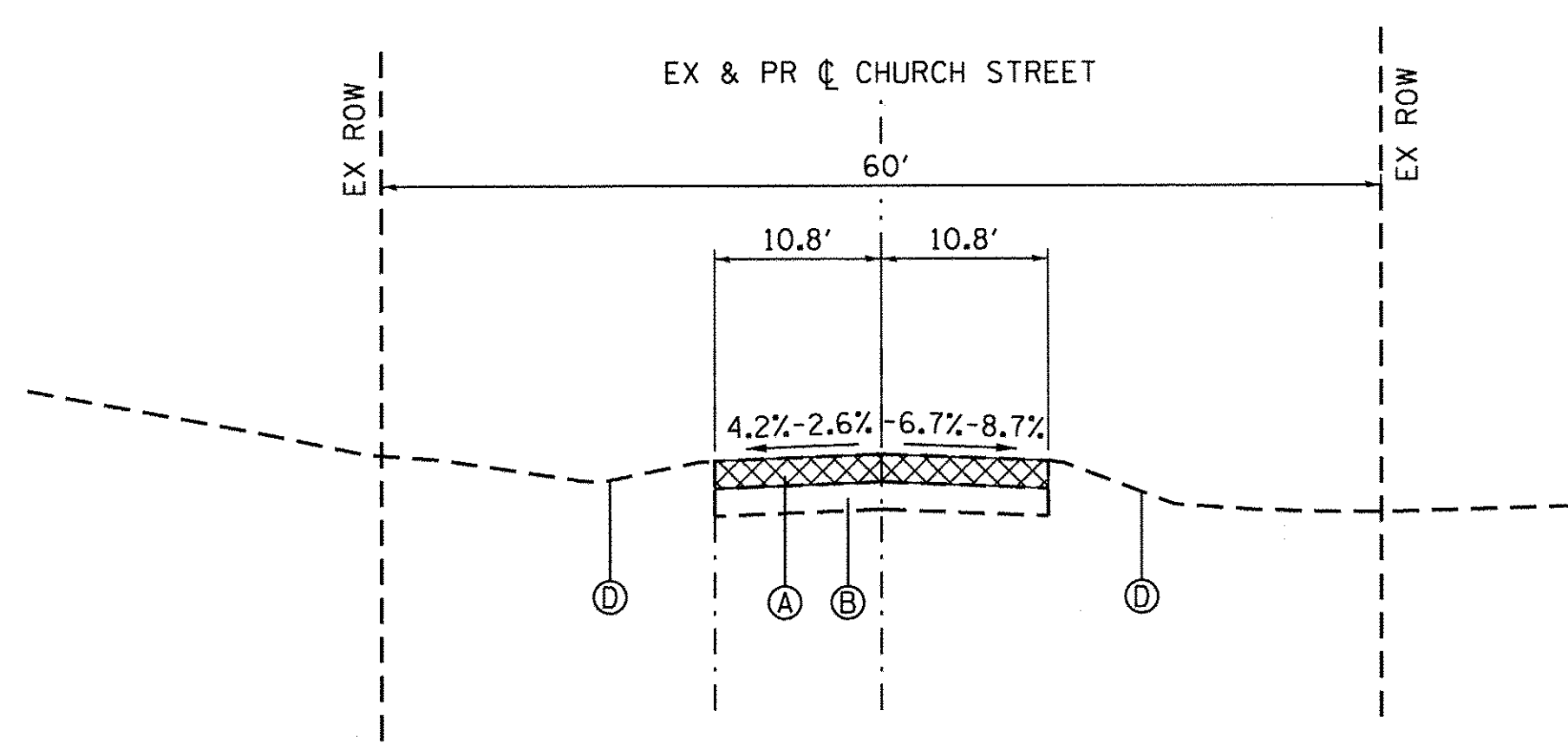
SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	8
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

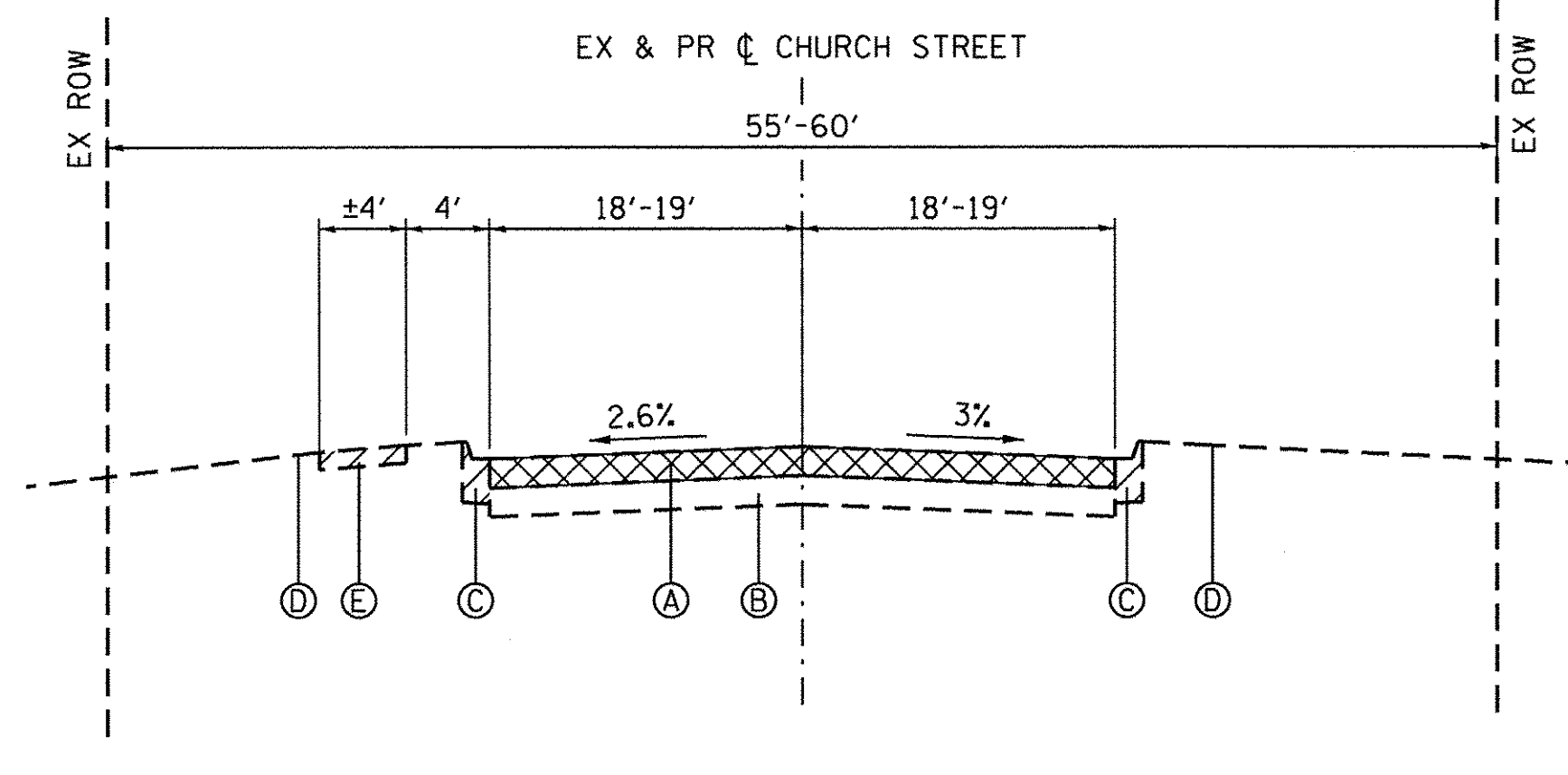
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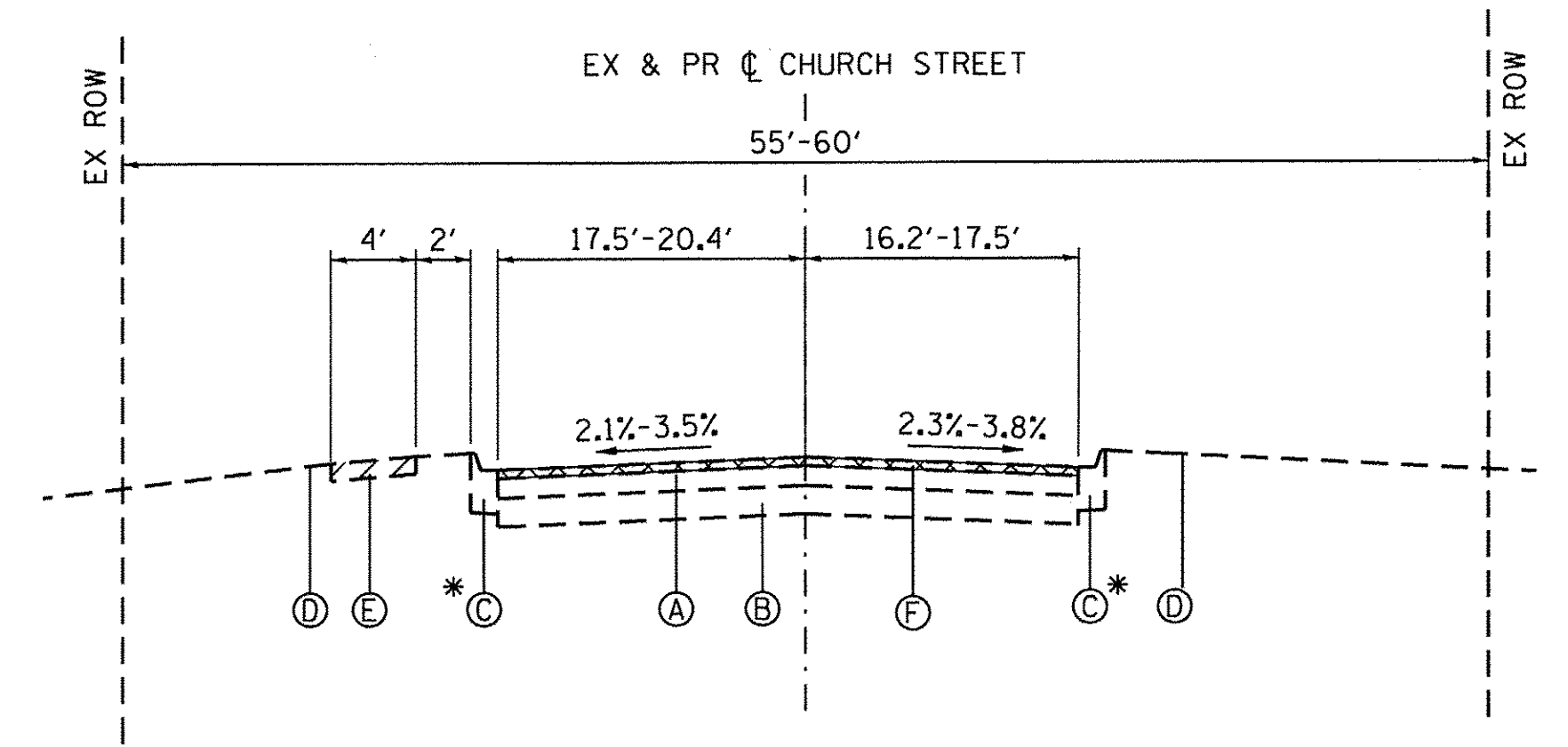
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 HRG PROJ CONTACT: 6660360-h - -01.dgn
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 PLOT DRIVER: to label . bl
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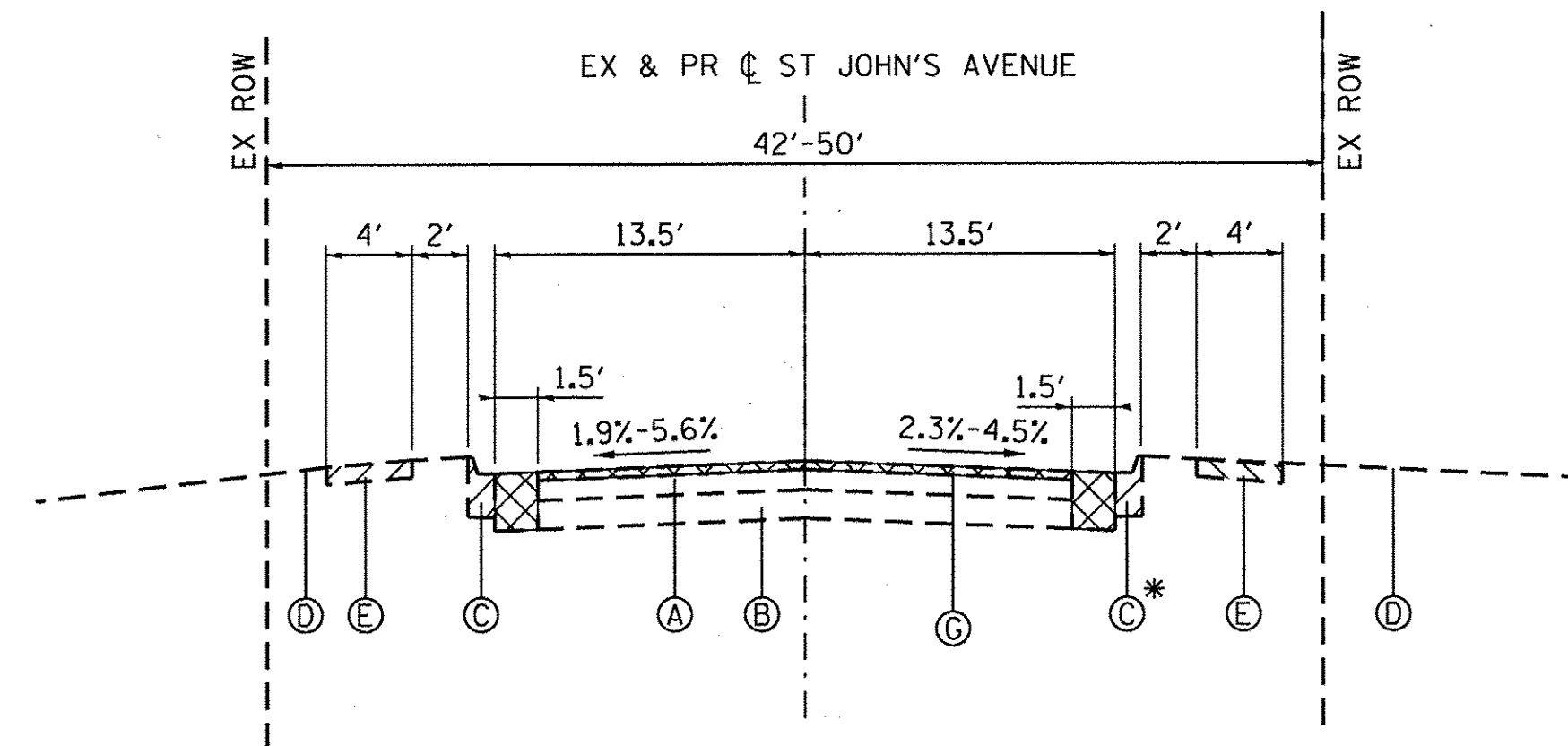
EXISTING TYPICAL SECTION
 STA. 13+44 TO STA. 26+53.3 LT/28+06.8 RT
 CHURCH STREET



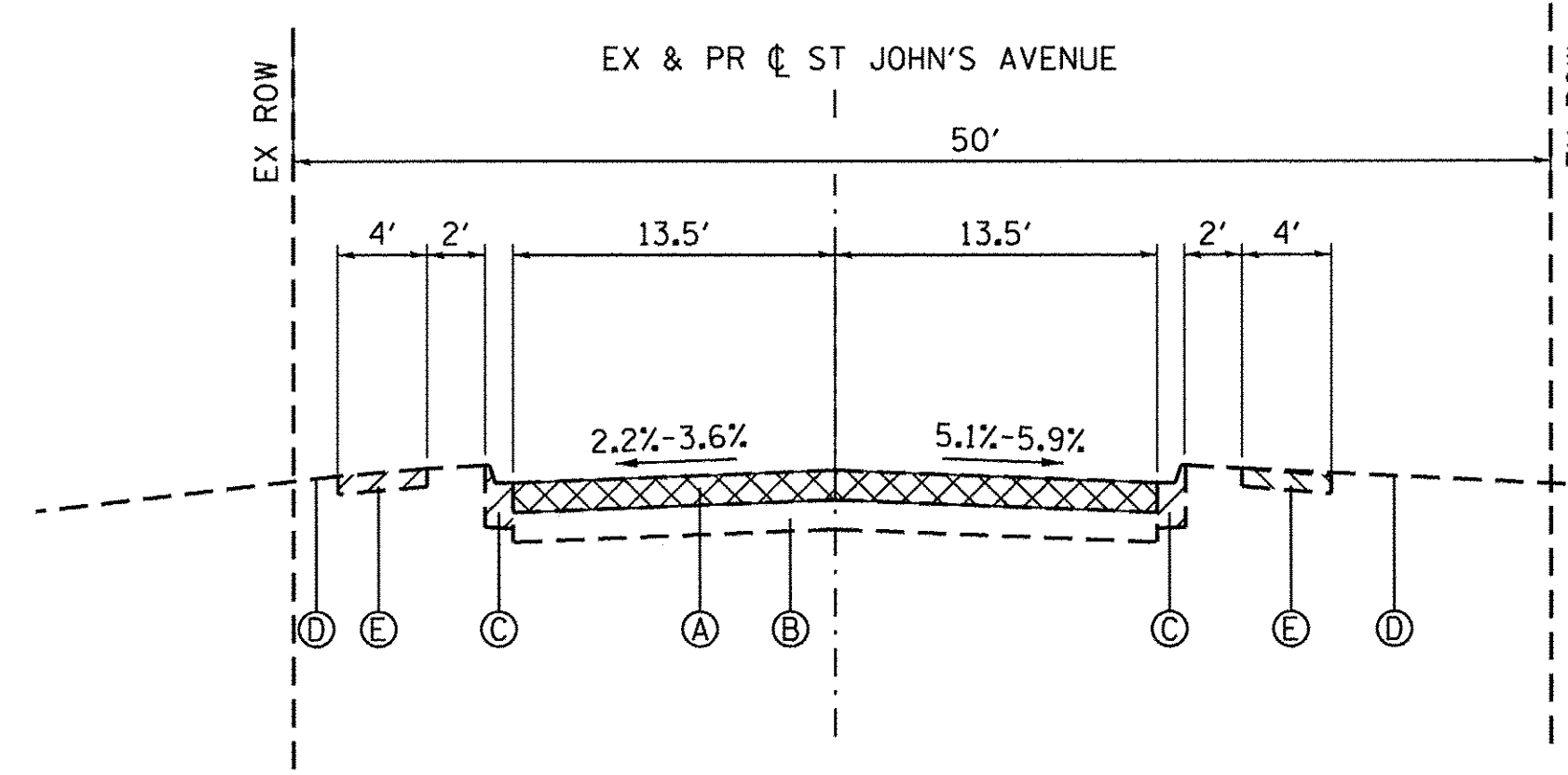
EXISTING TYPICAL SECTION
 STA. 26+53.3 LT/28+06.8 RT TO STA. 30+40
 CHURCH STREET



EXISTING TYPICAL SECTION
 STA. 30+40 TO STA. 46+30.2
 CHURCH STREET
 * SPOT REMOVAL & REPLACEMENT
 AS DIRECTED BY THE ENGINEER



EXISTING TYPICAL SECTION
 STA. 81+4.6 TO STA. 87+00
 ST. JOHN'S AVENUE
 *CURB + GUTTER REMOVAL
 STARTS AT STA 80+77.4 RT



EXISTING TYPICAL SECTION
 STA. 87+00 TO STA. 87+78
 ST JOHN'S AVENUE

EXISTING LEGEND

- INDICATES REMOVAL ITEM
- INDICATES PAVEMENT REMOVAL

EXISTING LEGEND

- (A) HOT-MIX ASPHALT PAVEMENT; 4" - 12"
- (B) AGGREGATE BASE COURSE; 3.5" - 12"
- (C) COMBINATION CONCRETE CURB & GUTTER
- (D) EXISTING GROUND
- (E) PORTLAND CEMENT CONCRETE SIDEWALK
- (F) HOT-MIX ASPHALT SURFACE REMOVAL - 2 1/4" REMOVAL
- (G) HOT-MIX ASPHALT SURFACE REMOVAL - VARIABLE DEPTH

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT: CHURCH STREET; ST JOHNS AVENUE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 1-3/4"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2 1/4"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19mm); 5"	4% @ 50 GYR.
PAVEMENT RESURFACING: CHURCH STREET; ST JOHNS AVENUE; PARKING STA 25+00 TO STA 26+50 RT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 1-3/4"	4% @ 50 GYR.
POLYMERIZED LEVELING BINDER (MM), IL-4.75; N50; 3/4"	3.5% @ 50 GYR.
PATCHING	
CLASS D PATCHES, (HMA BINDER, IL-19mm)	4% @ 70 GYR.
DRIVEWAYS; PARKING STA 26+50 TO STA 27+90 RT	
HMA SURFACE COURSE, MIX "D", N50; (IL 9.5mm); 2"	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19 mm); PE-4", CE-6"	4% @ 70 GYR.

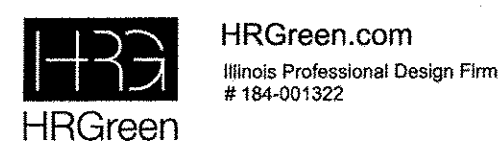
NOTES:

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/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 HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.



USER NAME = mzuzzi0	DESIGNED - MZ	REVISED -
PLOT SCALE = 1"=10'	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

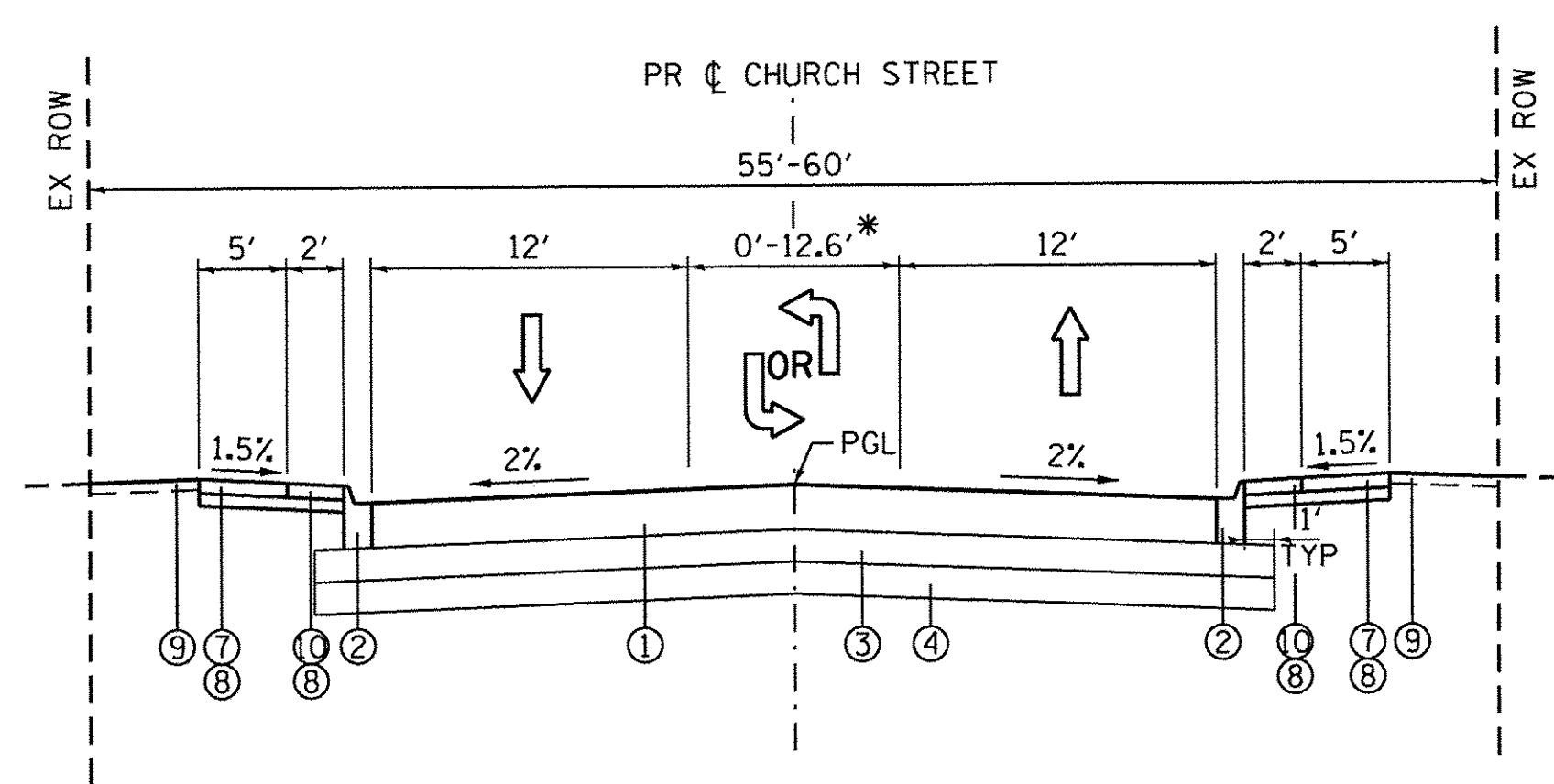
EXISTING TYPICAL SECTIONS		
CHURCH STREET & ST JOHN'S AVENUE		
SCALE: 1"=10'	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	9
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812				

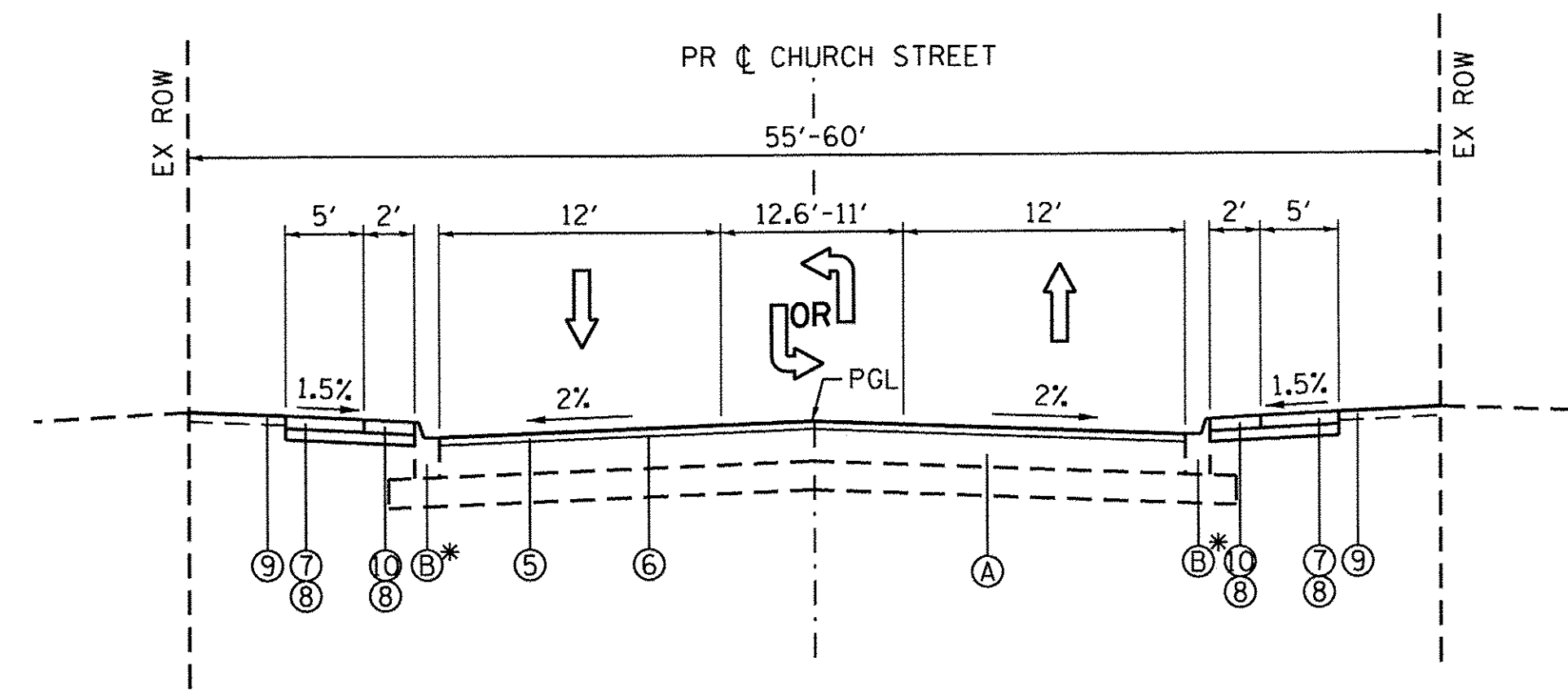
DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY CHECKED	
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ADD FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE NOTATION CHRD	

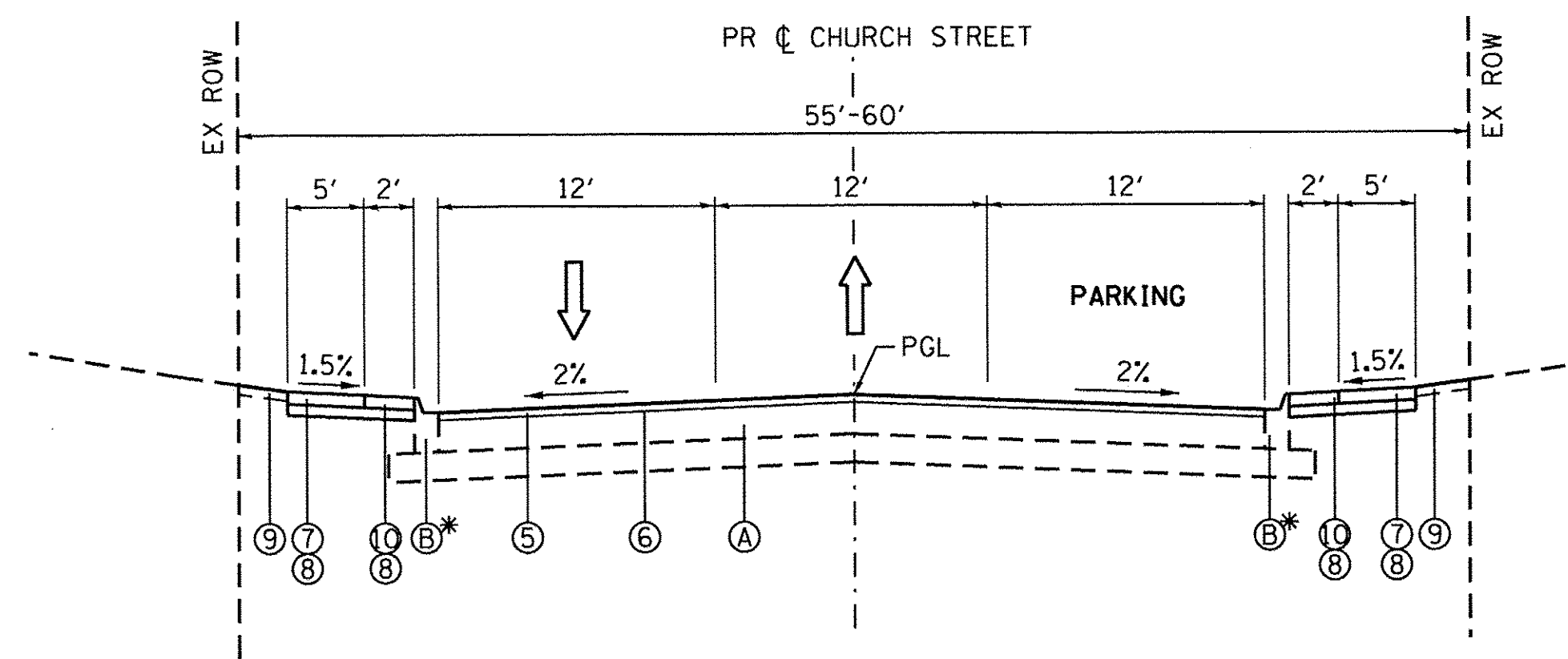
HRG PROJECT NO.: 8660350
 HRG PLOTT CONTACT: 8660350-1 -02.dgn
 FILE NAME: 15_cfl.b - 1.cfg
 PLOT DRIVER: to label.bl
 PEN TABLE:



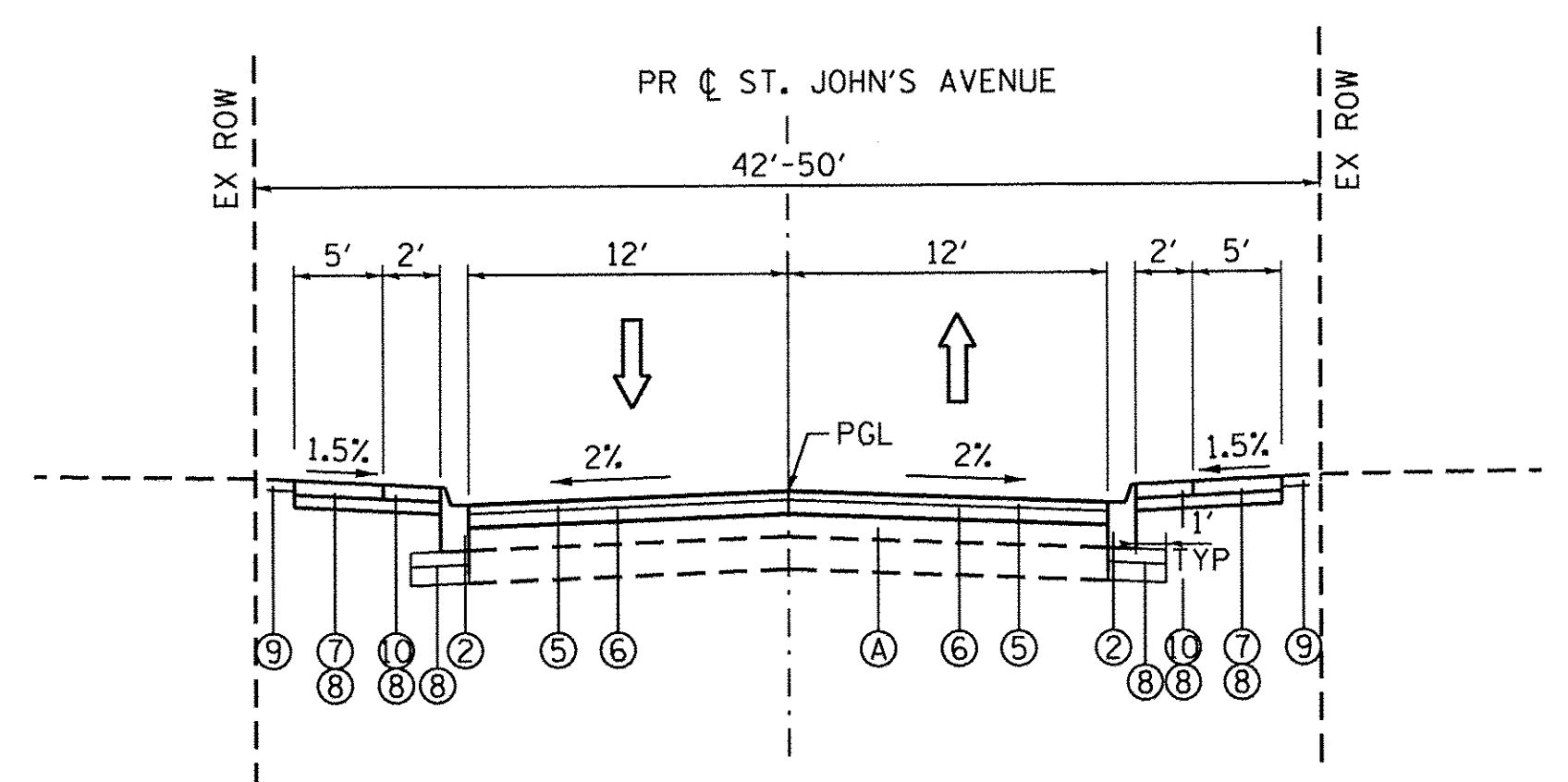
PROPOSED TYPICAL SECTION
 STA. 13+44 TO STA. 30+40
 CHURCH STREET
 * CENTER LANE STARTS AT STA. 26+82.13



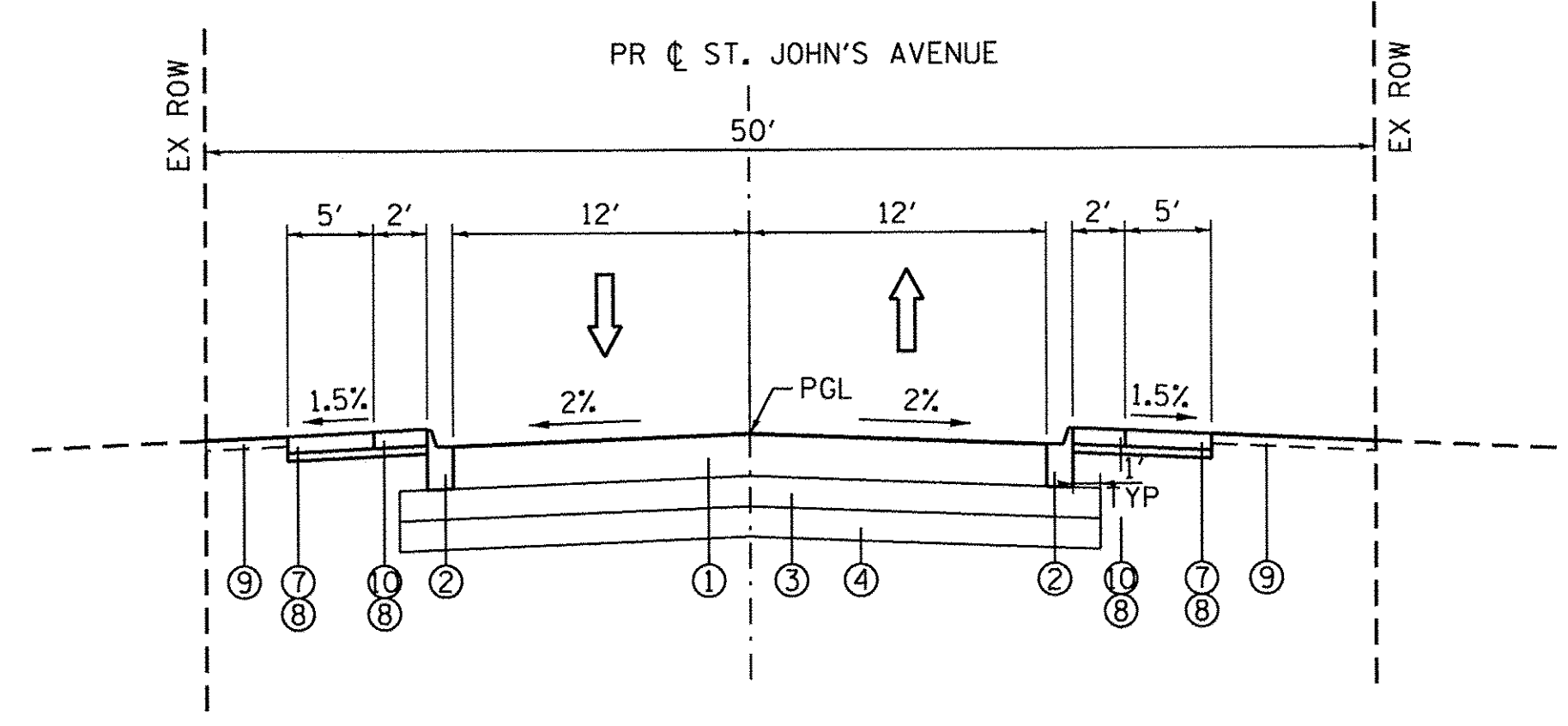
PROPOSED TYPICAL SECTION
 STA. 30+40 TO STA. 37+91.5
 STA. 44+93 TO STA. 46+30.12
 CHURCH STREET
 * SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER



PROPOSED TYPICAL SECTION
 STA. 37+91.5 TO STA. 44+93
 CHURCH STREET
 * SPOT REMOVAL + REPLACEMENT AS DIRECTED BY THE ENGINEER



PROPOSED TYPICAL SECTION
 STA. 81+14 TO STA. 87+00
 ST. JOHN'S AVENUE



PROPOSED TYPICAL SECTION
 STA. 87+00 TO STA. 87+78
 ST. JOHN'S AVENUE

EXISTING LEGEND

- (A) HOT-MIX ASPHALT PAVEMENT, 4" TO 12"
- (B) COMBINATION CONCRETE CURB & GUTTER
- (C) EXISTING GROUND
- (D) PORTLAND CEMENT CONCRETE SIDEWALK

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT PAVEMENT, (FULL DEPTH), 9"
- (2) COMBINATION CONCRETE CURB & GUTTER B-6.12
- (3) AGGREGATE SUBGRADE IMPROVEMENT, 12" (SQ YD)
- (4) AGGREGATE SUBGRADE IMPROVEMENT, (CU YD) (AS DIRECTED BY THE ENGINEER)
- (5) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 1 3/4"
- (6) POLYMERIZED LEVELING BINDER (mm), IL-4.75, N50; 3/4"
- (7) PORTLAND CEMENT CONCRETE SIDEWALK, 5" *
- (8) SUBBASE GRANULAR MATERIAL, TYPE B, 4" (CA-6 CRUSHED STONE OR GRAVEL)
- (9) TOPSOIL FURNISH AND PLACE, 4"; SEEDING, CLASS 2A
- (10) STAMPED ASPHALT

* NOTE: SIDEWALK SHALL BE AT A DEPTH OF 6" ACROSS ENTRANCES, INCLUDED IN THE UNIT BID PRICE OF PORTLAND CEMENT CONCRETE SIDEWALK, 5"



USER NAME = mzu210	DESIGNED - MZ	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=10'	CHECKED -	REVISED -
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS			
CHURCH STREET & ST. JOHN'S AVENUE			
SCALE: 1"=10'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	10
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

SCHEDULE OF QUANTITIES – EARTHWORK

PLAN	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	CHECKED	
	PT. OF WAY CHECKED	
	CADD FILE NAME	

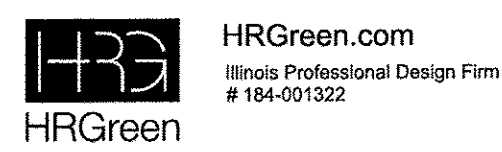
PROFILE	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	CHECKED	
	STRUCTURE NOTATIONS CHECKED	

PR-CHURCH	STAGE 1 (CU YD)				EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) WITH 15% SHRINKAGE	
	STATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EMBANKMENT		AGGREGATE SUBGRADE IMPROVEMENT
	13+50.00				0.0	
	13+70.00	20.8	41.9	10.4	0.0	25.2
	14+00.00	32.3	77.5	16.9	0.0	49.0
	14+20.25	5.1	73.7	4.7	0.0	57.9
	14+50.00	6.1	103.7	3.7	0.0	84.4
	15+00.00	24.8	108.6	9.1	0.0	83.2
	15+50.00	28.5	120.4	5.7	0.0	96.6
	16+00.00	29.4	120.1	6.5	0.0	95.6
	16+50.00	29.1	100.6	13.2	0.0	72.2
	16+87.52	10.1	64.3	12.6	0.0	42.0
	17+00.00	1.7	20.4	3.4	0.0	13.9
	17+50.00	17.4	96.1	8.7	0.0	73.0
	18+00.00	10.6	214.3	2.8	0.0	179.3
	18+17.34	0.0	171.9	0.0	0.0	146.0
	18+50.00	1.8	279.4	1.9	0.0	235.6
	19+00.00	5.8	107.6	14.5	0.0	76.9
	19+50.00	6.0	28.2	27.0	0.0	-3.0
	20+00.00	4.9	21.1	27.8	0.0	-9.8
	20+50.00	4.4	27.2	21.6	0.0	1.6
	20+84.90	7.6	36.5	9.0	0.0	21.9
	21+00.00	6.0	22.3	3.1	0.0	15.9
	21+24.91	7.4	52.3	10.5	0.0	34.0
	21+50.00	8.4	59.7	13.2	0.0	37.5
	22+00.00	25.1	111.9	20.6	0.0	74.5
	22+50.00	27.7	112.5	19.1	0.0	76.6
	22+91.53	13.2	66.4	17.9	0.0	38.6
	23+00.00	6.2	7.5	8.2	0.0	-1.8
	23+50.00	68.3	48.8	66.4	0.0	-24.9
	23+70.11	29.2	27.4	32.8	0.0	-9.5
	24+00.00	43.0	45.8	55.8	0.0	-16.9
	24+57.18	35.8	113.6	47.6	0.0	48.9
	25+00.00	0.0	81.0	17.0	0.0	51.8
	25+40.36	0.0	81.7	24.7	0.0	44.8

PR-CHURCH	STAGE 1 (CU YD)				EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) WITH 15% SHRINKAGE	
	STATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EMBANKMENT		AGGREGATE SUBGRADE IMPROVEMENT
	26+00.00	0.0	104.3	35.5	0.0	53.2
	26+50.00	0.0	39.0	36.4	0.0	-3.3
	27+00.00	0.0	42.1	37.8	0.0	-2.0
	27+31.76	0.0	63.9	16.5	0.0	37.8
	27+50.00	0.1	40.3	7.8	0.0	26.4
	27+86.41	20.4	217.4	17.5	0.0	167.4
	28+00.00	9.9	116.5	24.4	0.0	74.6
	28+06.17	1.3	28.6	20.1	0.0	4.2
	28+22.86	3.6	27.8	33.0	0.0	-9.4
	28+47.87	4.6	19.5	11.1	0.0	5.5
	29+00.00	6.6	58.1	8.9	0.0	40.5
	29+09.71	1.7	13.1	1.1	0.0	10.1
	29+50.00	7.2	59.0	3.0	0.0	47.2
	29+86.44	7.6	59.2	3.2	0.0	47.2
	30+00.00	1.8	23.6	0.8	0.0	19.3
	30+00 TO 46+00	200	100			85.0
	BLITSCH		35			29.8
	TOTALS:	581.6	3691.9	792.6	0.0	2210.7

20200100	EARTH EXCAVATION	3691.9
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	581.6
20400800	FURNISHED EXCAVATION	0.0
30300001	AGGREGATE SUBGRADE IMPROVEMENT	0.0

HRG PROJECT NO.: 8660350
 HRG PROJ. CONTACT: 8660350-7 - ch.dgn
 FILE NAME: IL - CRD - 1 CRG
 PLOTTED BY: PER TABLE



USER NAME = muzzio	DESIGNED - MZ	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
CHURCH STREET & ST. JOHN'S AVENUE	
SCALE: NTS	SHEET NO. 1 OF 2 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	11
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812				

SCHEDULE OF QUANTITIES – EARTHWORK

DRIVEWAY SCHEDULE

STATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EMBANKMENT	AGGREGATE SUBGRADE IMPROVEMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) WITH 15% SHRINKAGE
					STAGE 1
PR-JOHN		STAGE 1 (CU YD)			
81+50.65					0.0
82+00.00	3.8	6.9	2.7	0.0	3.1
82+50.00	5.9	4.5	3.7	0.0	0.2
83+00.00	5.7	6.6	3.1	0.0	2.4
83+48.70	5.1	5.7	3.2	0.0	1.7
83+89.63	3.3	3.9	2.5	0.0	0.8
84+00.00	0.5	1.3	0.5	0.0	0.6
84+47.37	1.2	7.5	1.8	0.0	4.6
85+00.00	3.0	7.9	2.8	0.0	3.9
85+16.92	1.4	2.2	1.1	0.0	0.7
85+51.67	1.9	5.9	1.6	0.0	3.4
86+00.00	4.9	7.7	2.6	0.0	3.9
86+26.28	2.6	6.0	1.3	0.0	3.8
86+49.71	3.9	4.9	2.1	0.0	2.1
TOTALS:	43.4	71.0	29.2	0.0	31.2
87+00.00	16.7	33.9	10.2	0.0	18.6
87+38.67	9.2	48.5	5.7	0.0	35.6
87+48.59	2.2	12.5	1.1	0.0	9.5
TOTALS:	28.0	94.9	17.0	0.0	63.6

HOT MIX ASPHALT DRIVEWAYS

PRIVATE ENTRANCE

ALIGNMENT	STA	OFF	LOCATION	HMA SURFACE, MIX "D", N50 TON	HMA BASE COURSE 4" SQ YD
PR-CHURCH	28+48.1	RT		4.8	41.9
PR-CHURCH	28+48.8	LT		1.8	15.3
PR-CHURCH	29+09.8	RT		1.1	9.4
PR-CHURCH	29+86.7	LT		0.5	4.3
PR-CHURCH	30+67.4	LT		1.0	8.4
PR-CHURCH	31+02.4	LT		0.7	6.1
PR-CHURCH	32+30.2	LT		1.7	15.0
PR-CHURCH	33+34.7	LT		0.8	7.3
PR-CHURCH	34+51.0	RT		0.3	2.9
PR-CHURCH	34+80.3	LT		0.6	5.3
PR-CHURCH	37+13.8	RT		2.0	17.6
PR-CHURCH	38+37.9	LT		0.6	5.6
PR-CHURCH	38+37.8	RT		1.8	15.4
PR-CHURCH	38+79.9	LT	APPROACH	0.6	4.9
PR-CHURCH	39+17.2	RT		2.0	17.1
PR-CHURCH	39+58.2	LT	APPROACH	0.6	5.2
PR-CHURCH	40+17.6	RT	APPROACH	5.1	44.0
PR-CHURCH	40+40.5	LT	APPROACH	0.7	5.8
PR-CHURCH	41+16.5	LT	APPROACH	0.6	5.5
PR-CHURCH	41+56.6	RT		2.0	17.5
PR-CHURCH	41+98.8	LT	APPROACH	0.7	6.1
PR-CHURCH	42+84.9	LT	APPROACH	0.7	6.3
PR-CHURCH	43+62.3	LT	APPROACH	0.6	5.0
PR-CHURCH	44+75.7	LT		2.0	17.2
PR-CHURCH	45+86.1	LT	APPROACH	0.7	6.3
PR-STJOHN	80+52	LT		32.9	295.7
PR-STJOHN	81+15.5	RT	APPROACH	0.5	4.7
PR-STJOHN	84+45.1	RT		0.1	0.6
PR-STJOHN	84+48.7	LT	APPROACH	0.4	3.3
PR-STJOHN	85+17.2	RT		0.6	5.6
PR-STJOHN	86+25.8	RT	APPROACH	0.5	4.0
PR-STJOHN	86+49.8	LT	APPROACH	0.5	4.1
PR-STJOHN	87+38.8	RT		1.9	16.9

PORTLAND CONCRETE DRIVEWAYS

ALIGNMENT	STA	OFF	LOCATION	PCC DRIVEWAY SQ YD
PR-CHURCH	16+87.1	LT		64.5
PR-CHURCH	29+96.9	RT		11.8
PR-CHURCH	35+75.4	RT		35.2
PR-CHURCH	37+13.8	RT		0.0
PR-CHURCH	37+93.4	RT		6.8
PR-CHURCH	38+79.9	LT		4.8
PR-CHURCH	39+58.2	LT		12.8
PR-CHURCH	40+40.5	LT		5.2
PR-CHURCH	41+16.5	LT		16.8
PR-CHURCH	41+98.8	LT		3.9
PR-CHURCH	42+84.9	LT		6.2
PR-CHURCH	43+62.3	LT		3.8
PR-CHURCH	45+86.1	LT		4.7
PR-JOHN	80+52.1	LT	APPROACH	25.3
PR-JOHN	81+15.5	RT		0.9
PR-JOHN	83+00.4	LT		11.5
PR-JOHN	83+48.7	RT		5.7
PR-JOHN	83+89.3	LT		6.2
PR-JOHN	84+45.1	RT	APPROACH	4.2
PR-JOHN	84+48.7	LT		0.5
PR-JOHN	85+50.4	LT		6.3

GRAVEL DRIVEWAYS

ALIGNMENT	STA	OFF	SUBBASE GRANULAR MATERIAL, TYPE B 10", SQ YD
PR-JOHNS	86+25.8	RT	0.4
PR-JOHNS	86+49.8	LT	1.9

20200100	EARTH EXCAVATION	165.9
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	71.4
20400800	FURNISHED EXCAVATION	0.0
30300001	AGGREGATE SUBGRADE IMPROVEMENT	0.0

HOT MIX ASPHALT DRIVEWAYS

COMMERCIAL ENTRANCES

ALIGNMENT	STA	OFF	HMA SURFACE, MIX "D", N50 TON	HMA BASE COURSE 6" SQ YD
PR-CHURCH	18+15.4	RT	8.6	74.5
PR-CHURCH	21+24.8	RT	20.1	175.2
PR-CHURCH	21+24.8	LT	11.9	103.8
PR-CHURCH	22+91	RT	47.2	410.5
PR-CHURCH	23+70.1	RT	18.9	164.4
PR-CHURCH	23+70.1	LT	16.8	146.0
PR-CHURCH	31+35.9	RT	0.7	5.8
PR-CHURCH	33+75.2	RT	1.1	9.5
PR-CHURCH	42+90.8	RT	3.5	30.8
PR-CHURCH	44+55.8	RT	3.6	31.5
PR-CHURCH	25+40.6	LT	57.5	499.8

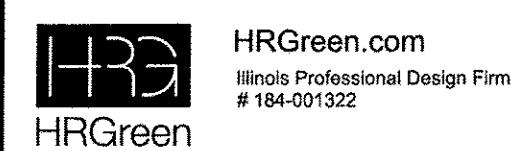
TOTAL EARTHWORK

CODE	DESCRIPTION	CROSS SECTION BASED		
		CHURCH ST	ST JOHNS AVE	TOTAL
20200100	EARTH EXCAVATION	3786.8	71.0	3,858
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	609.6	43.4	653
20400800	FURNISHED EXCAVATION	0.0	0.0	0
30300001	AGGREGATE SUBGRADE IMPROVEMENT	0.0	0.0	0

PLAN	DATE
SURVEYED	
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DESIGNED	
CHECKED	
BY	
NOTE BOOK NO.	
CADD FILE NAME	

PROFILE	DATE
SURVEYED	
PLANNED	
DESIGNED	
CHECKED	
BY	
NOTE BOOK NO.	
CADD FILE NAME	

HRG PROJECT NO: 8650350
 HRG PROJ CONTACT: 8650350-h - ch.dgn
 FILE NAME: 8650350-h - ch.dgn
 PLOT DRIVER: ll - of - b . j . of g
 PEN TABLE: la label . bi



USER NAME = mzuz210	DESIGNED - MZ	REVISED -
PLOT SCALE = NTS	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
 CHURCH STREET & ST. JOHN'S AVENUE

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	12
CONTRACT NO. 61031				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(012)				

SCALE: NTS SHEET NO. 2 OF 2 SHEETS STA. TO STA.

BENCHMARKS

BENCHMARK 1: RAILROAD SPIKE IN WEST FACE OF WOOD POWER POLE LOCATED AT THE SOUTHEAST CORNER OF SPRING GROVE ROAD AND CHURCH STREET. ELEVATION = 792.77 (NAVD 88)

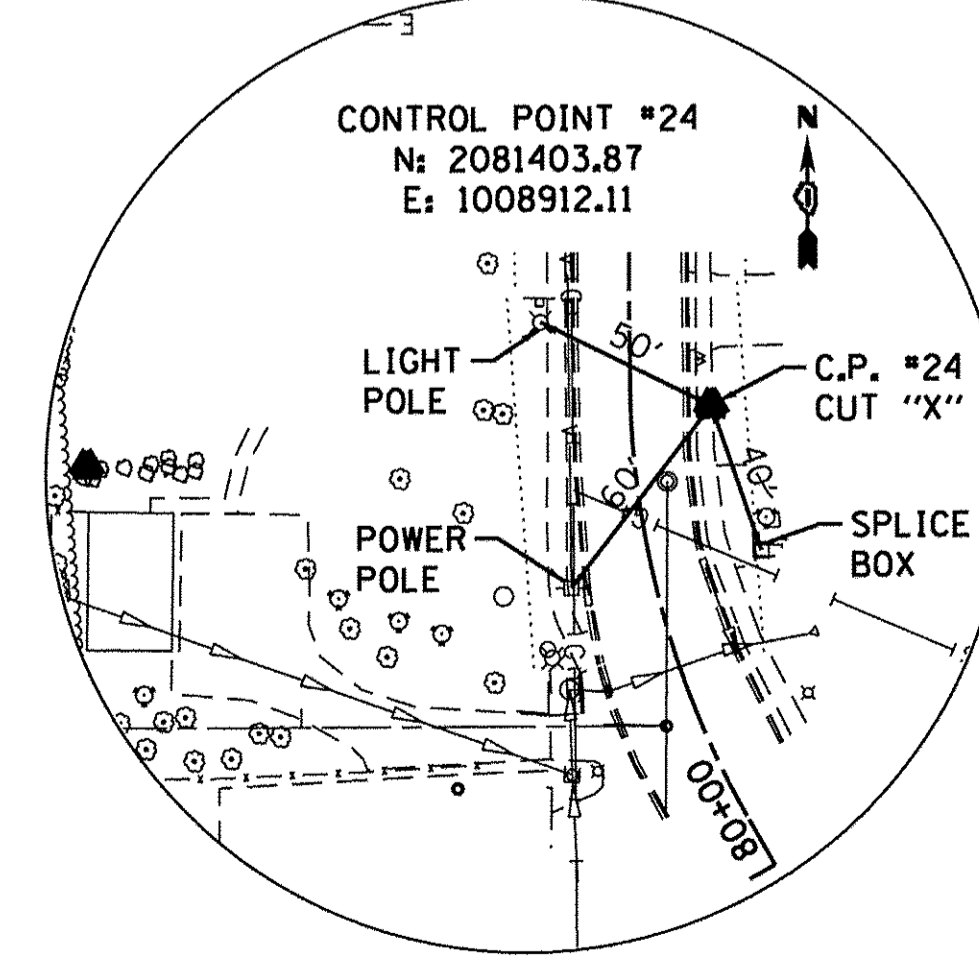
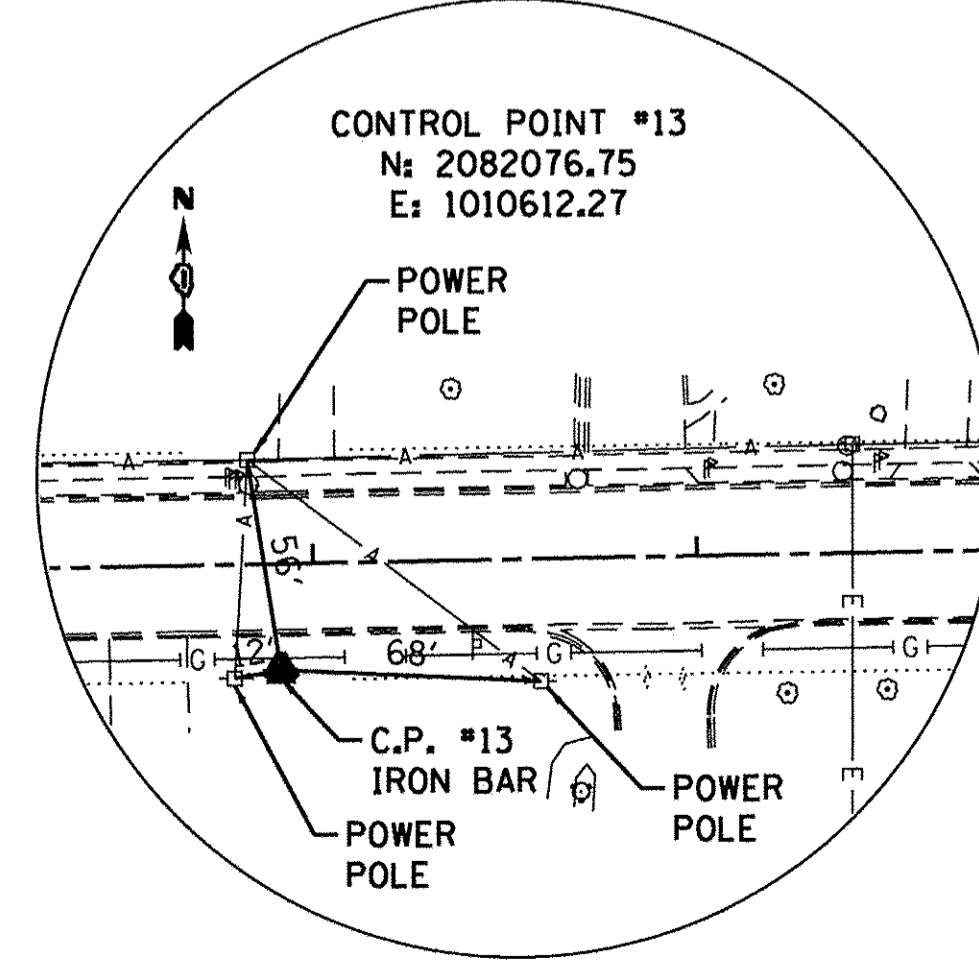
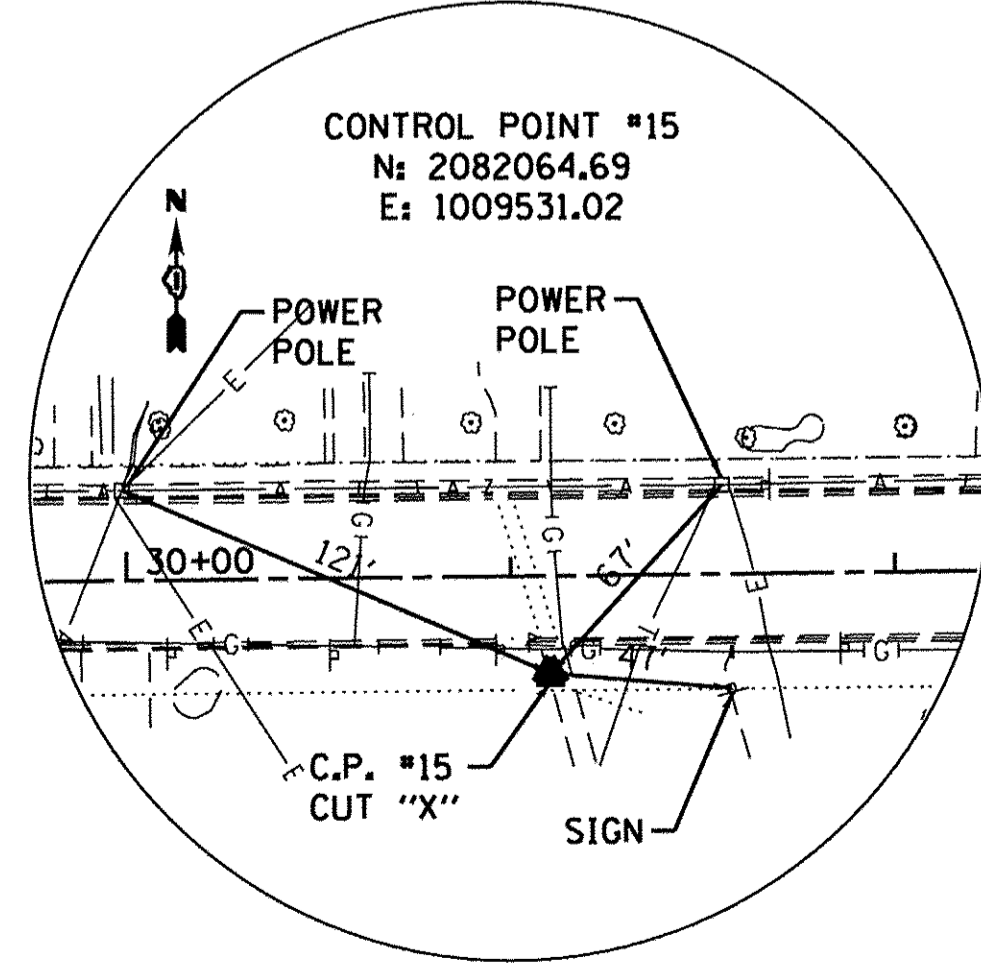
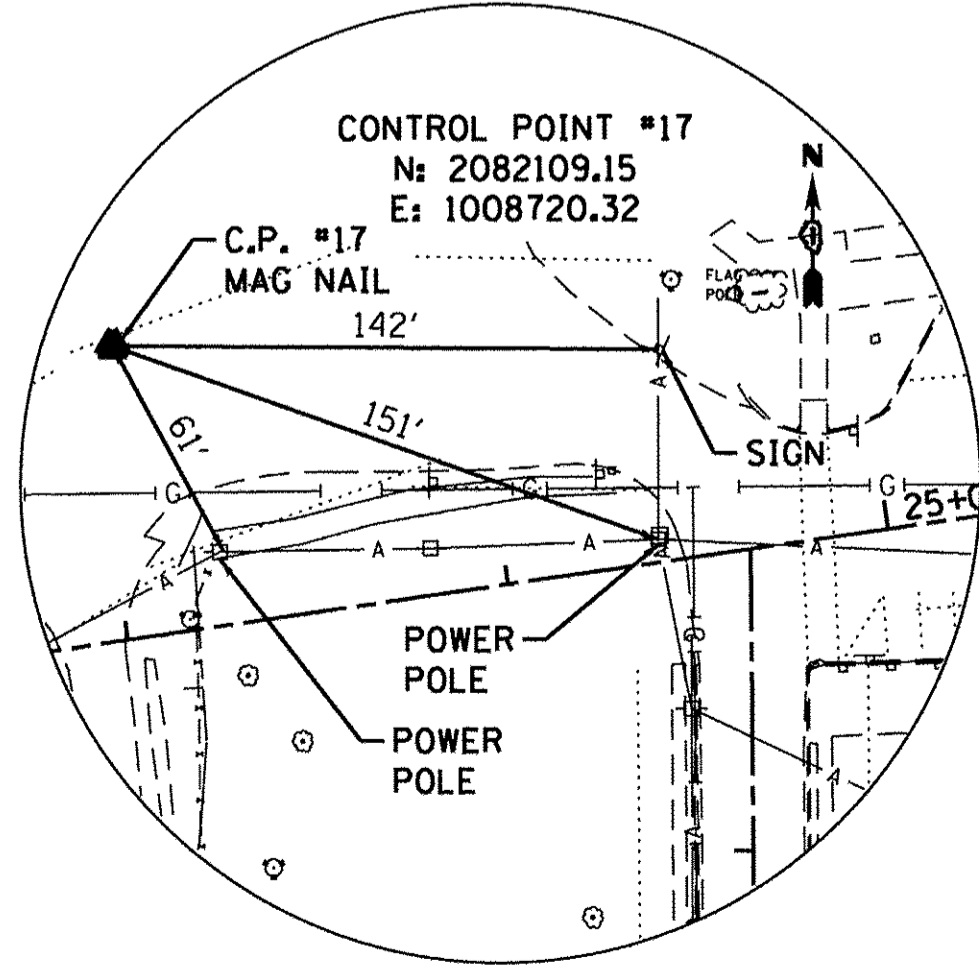
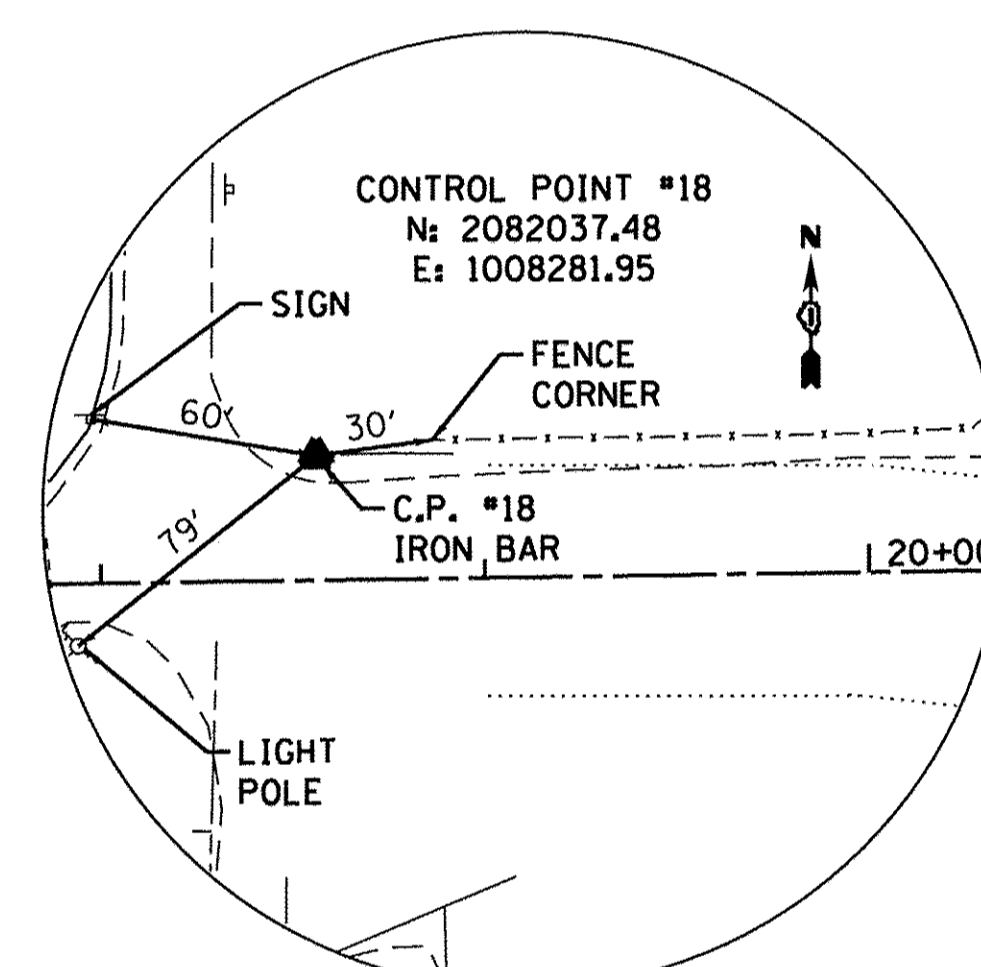
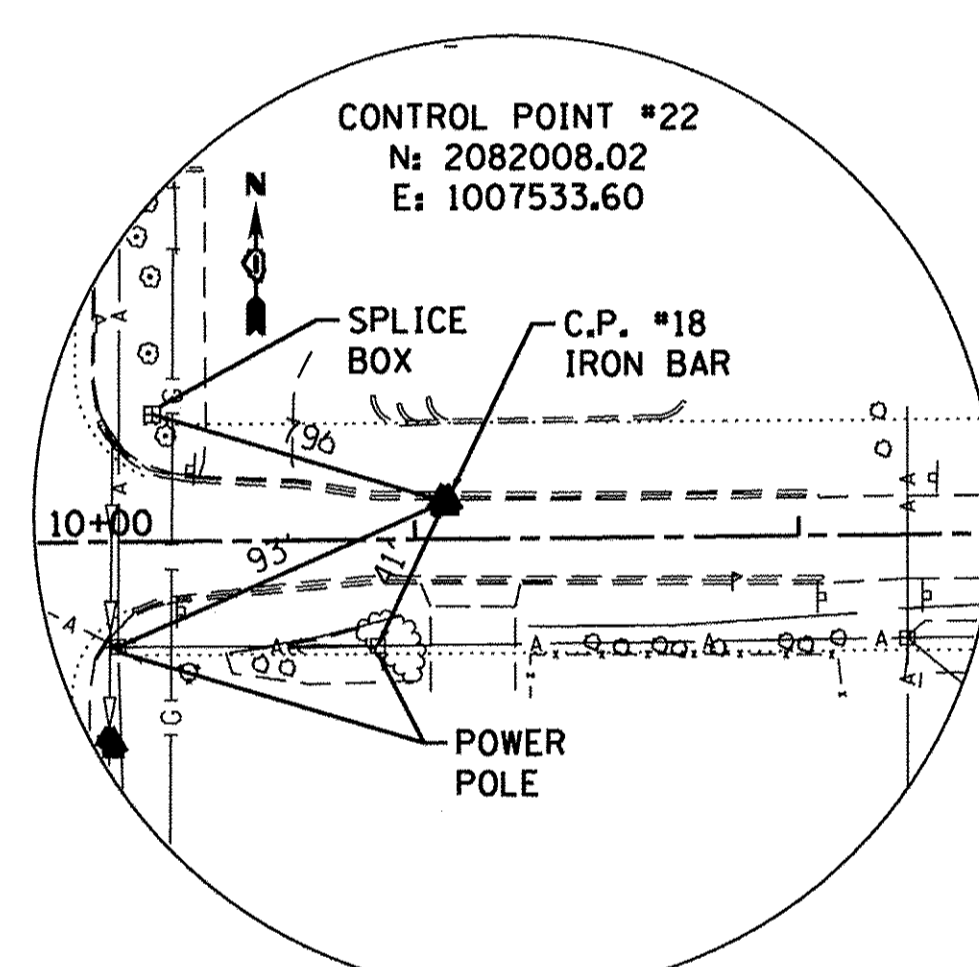
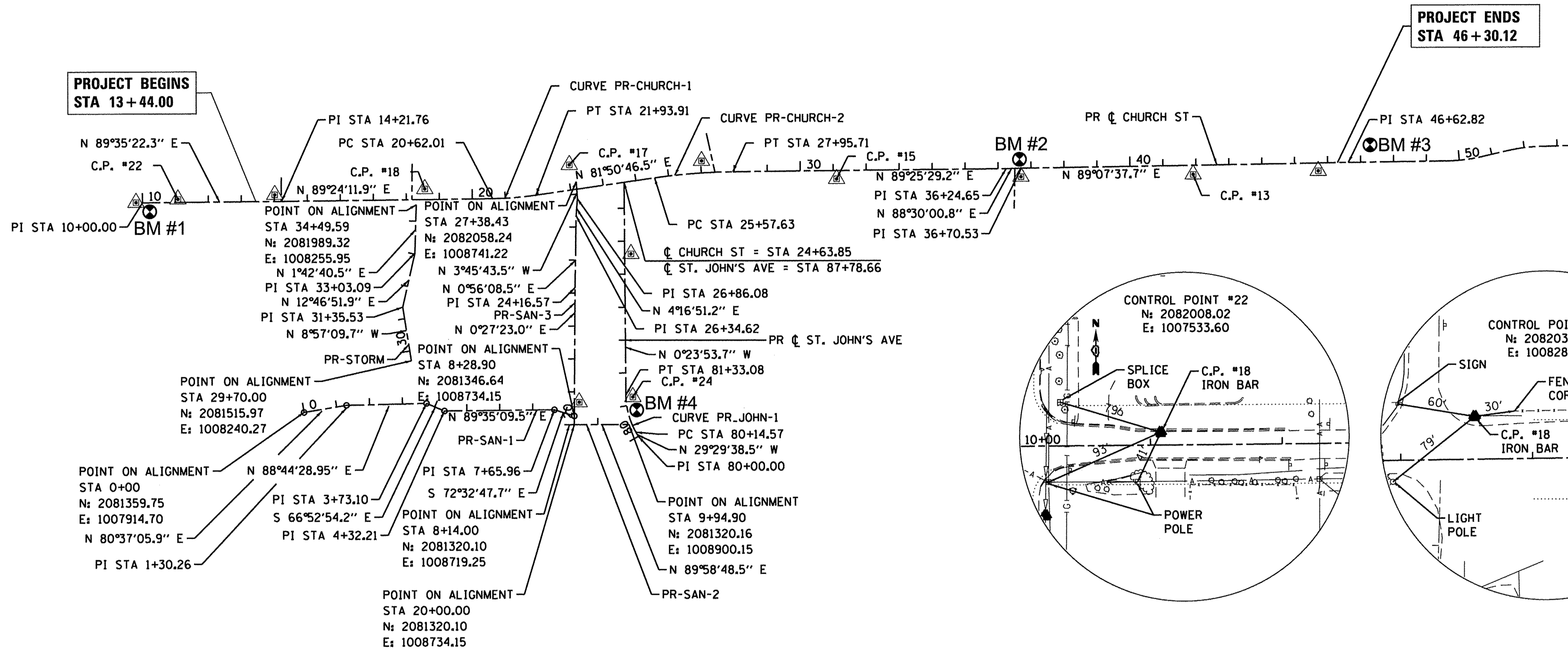
BENCHMARK 2: RAILROAD SPIKE IN WEST FACE OF WOOD POWER POLE LOCATED AT THE NORTHEAST CORNER OF FAIRVIEW AVENUE AND CHURCH STREET. ELEVATION = 757.71 (NAVD 88)

BENCHMARK 3: RAILROAD SPIKE IN WEST FACE OF WOOD POWER POLE LOCATED AT THE NORTHEAST CORNER OF JOHNSBURG ROAD AND CHURCH STREET. ELEVATION = 749.77 (NAVD 88)

PROP. CURVE PR-JOHN-1
 $\Delta = 29^\circ 05' 45''$ (RT)
 $D = 24^\circ 33' 00''$
 $R = 233.38'$
 $T = 60.57'$
 $L = 118.52'$
 $E = 7.73'$
 $e = NC$
 P.C. STA. = 80+14.57
 $N = 2081296.76$
 $E = 1008921.15$
 PI STA. = 80+75.13
 $N = 2081349.47$
 $E = 1008891.33$
 P.T. STA. = 81+33.08
 $N = 2081410.04$
 $E = 1008890.91$

PROP. CURVE PR-CHURCH-1
 $\Delta = 7^\circ 33' 25''$ (LT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 66.04'$
 $L = 131.90'$
 $E = 2.18'$
 $e = NC$
 P.C. STA. = 20+62.01
 $N = 2082007.26$
 $E = 1008487.79$
 PI STA. = 21+28.06
 $N = 2082007.94$
 $E = 1008553.83$
 P.T. STA. = 21+93.91
 $N = 2082017.31$
 $E = 1008619.20$

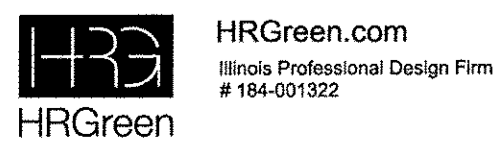
PROP. CURVE PR-CHURCH-2
 $\Delta = 7^\circ 34' 43''$ (RT)
 $D = 3^\circ 10' 59''$
 $R = 1,800.00'$
 $T = 119.22'$
 $L = 238.09'$
 $E = 3.94'$
 $e = NC$
 P.C. STA. = 25+57.63
 $N = 2082068.90$
 $E = 1008979.24$
 PI STA. = 26+76.84
 $N = 2082085.81$
 $E = 1009097.26$
 P.T. STA. = 27+95.71
 $N = 2082087.00$
 $E = 1009216.47$



DATE	
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NOTE BOOK	
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PAID FILE NAME	

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BY	
SURVEYED	
PLOTTED	
CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS	
PROFILE	
NOTE BOOK	
NO.	

HRG PROJECT NO.: 8650350
 HRG PROJ CONTACT: 8650350-h-atb.dgn
 FILE NAME: ll-ef-b-1.ctb
 PLOT DRIVER: to label.pl



USER NAME = mzu210	DESIGNED - MZ	REVISED -
PLLOT SCALE = 1"=200'	DRAWN - DMS	REVISED -
PLLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS
 CHURCH STREET & ST. JOHN'S AVENUE

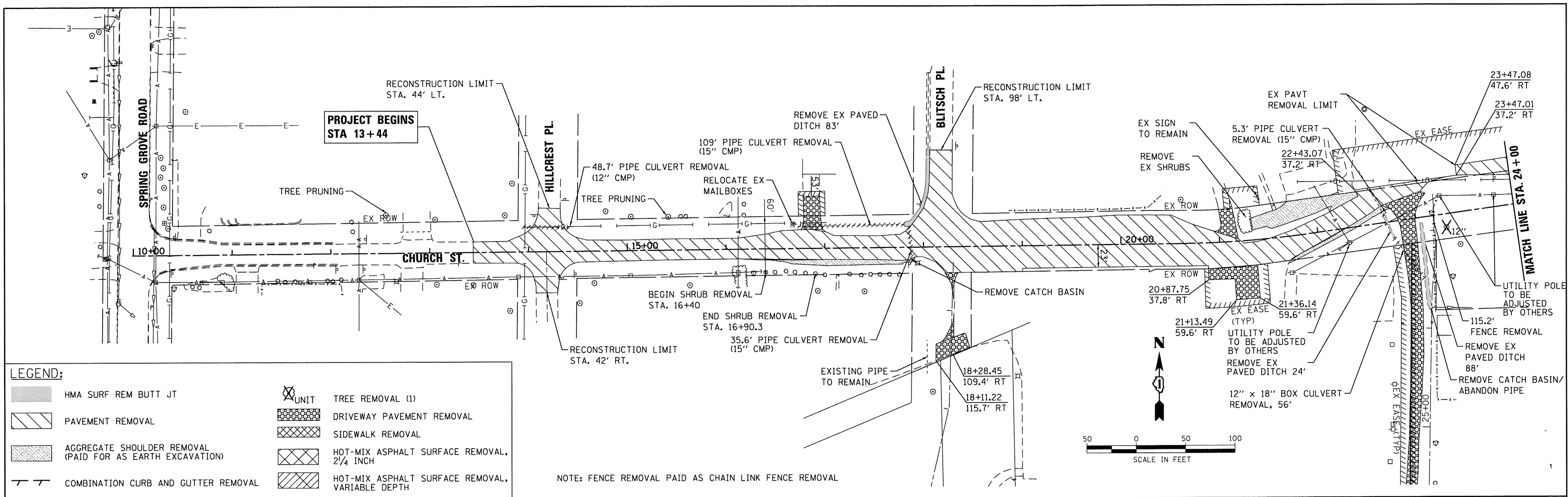
SCALE: 1"=200' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	13
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

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BLM. NOTED	
STRUCTURE NOTATIONS CHRD	
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PROFILE	

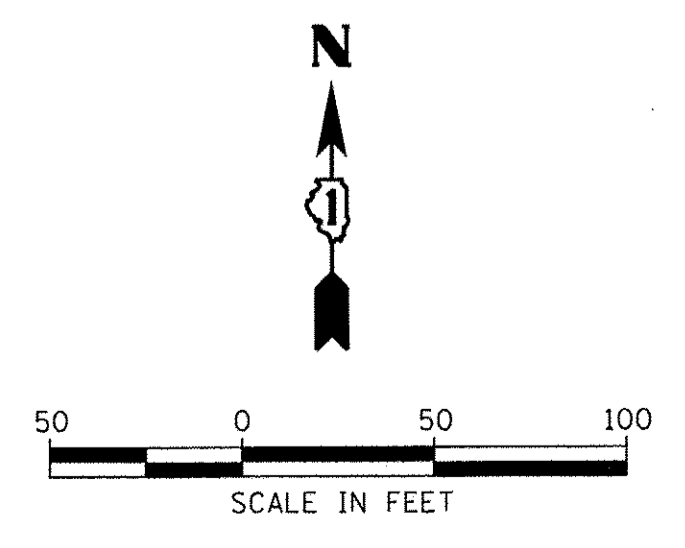
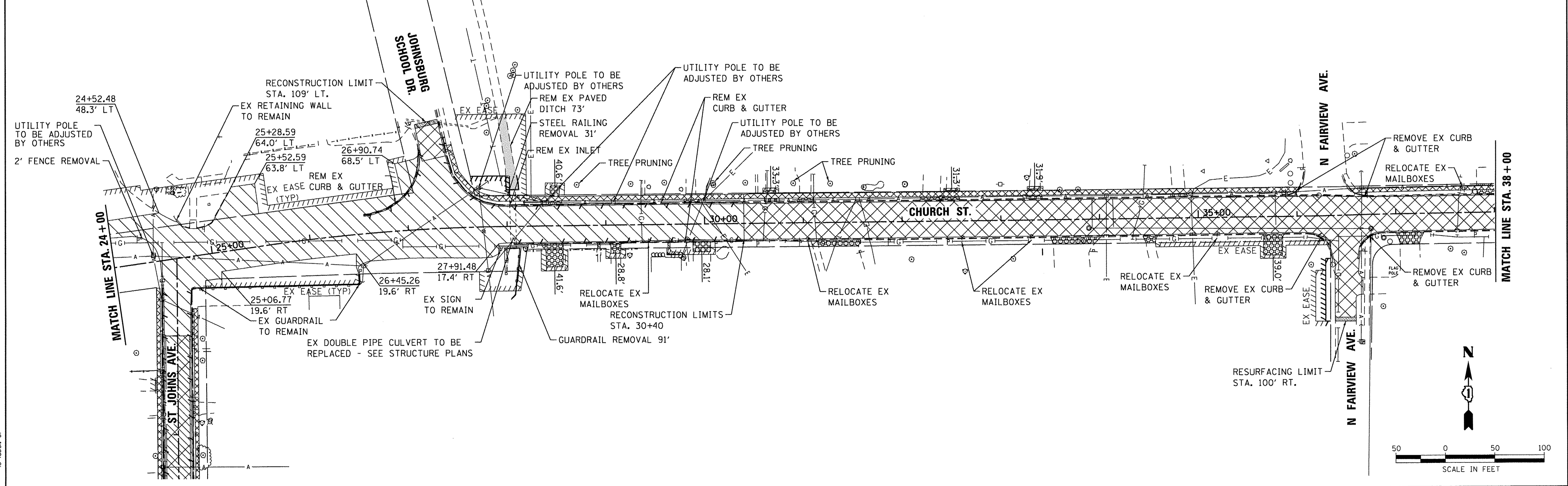
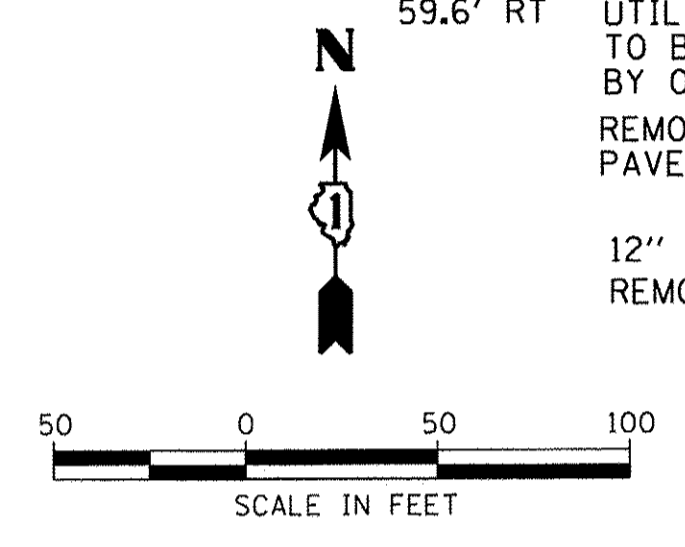
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 HRG PROJ CONTACT: 8650350 - h - em-0.dgn
 FILE NAME: ll_cfb . i cfb
 PLOT DRIVER: to label . b
 PEN TABLE:



LEGEND:

	HMA SURF REM BUTT JT		TREE REMOVAL (1)
	PAVEMENT REMOVAL		DRIVEWAY PAVEMENT REMOVAL
	AGGREGATE SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION)		SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4 INCH
			HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

NOTE: FENCE REMOVAL PAID AS CHAIN LINK FENCE REMOVAL



USER NAME = mzuz10	DESIGNED - MZ	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

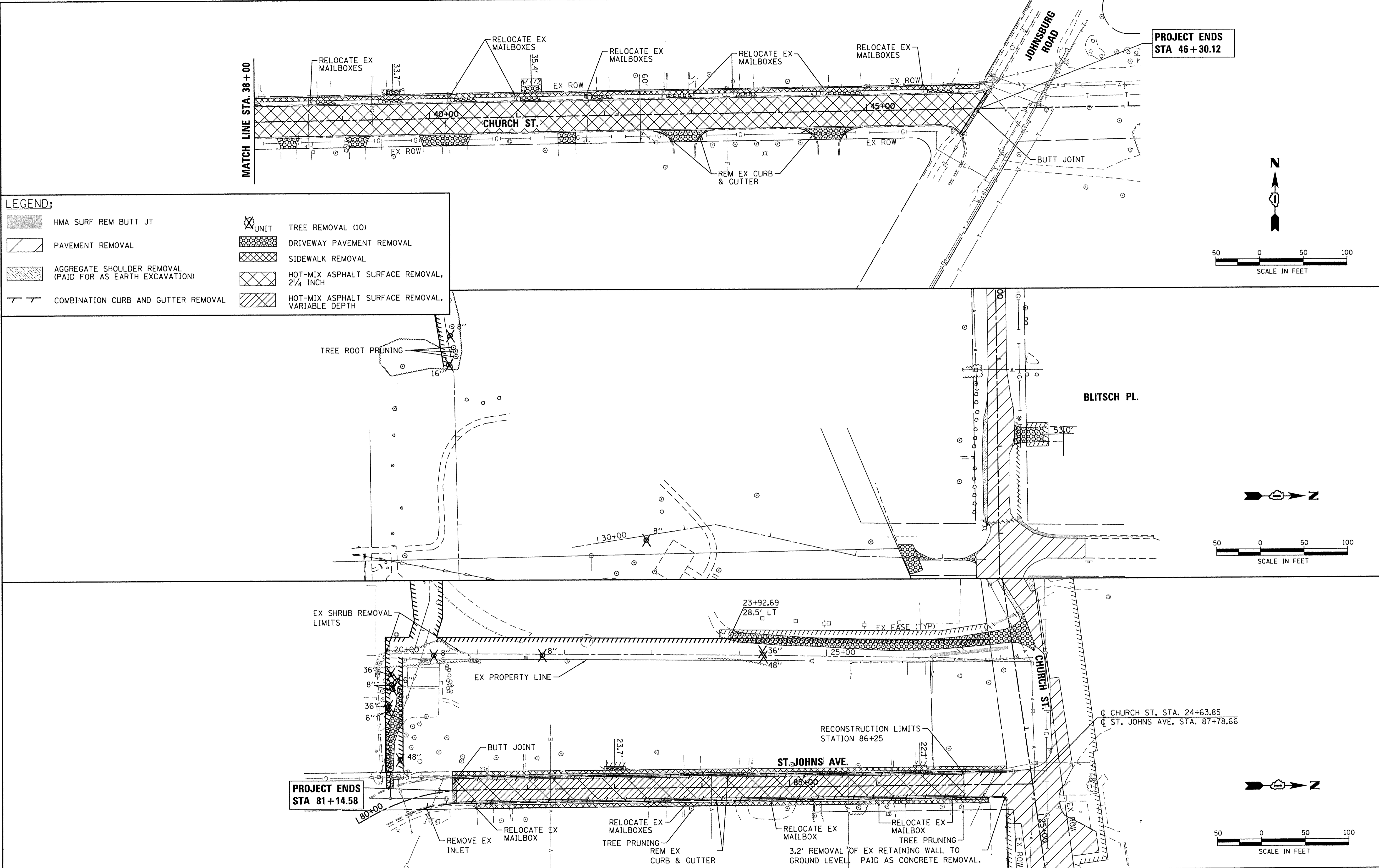
REMOVAL PLAN	
CHURCH STREET	
SCALE: 1"=50'	SHEET NO. 1 OF 2 SHEETS
STA.	TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	14
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(B12)				

DATE	
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ALIGNED	
CHECKED	
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PLAN	
NOTE BOOK	
NO.	
CADD FILE NAME	

DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
CHECKED	
NO.	
PROFILE	
NOTE BOOK	
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STRUCTURE NOTATIONS CHECKED	

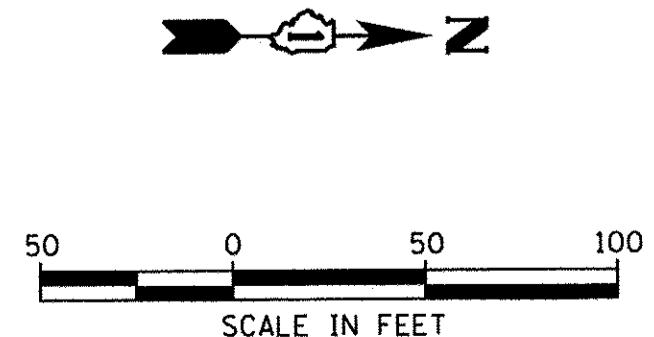
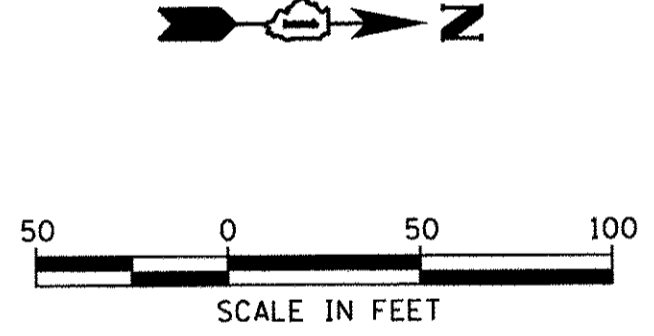
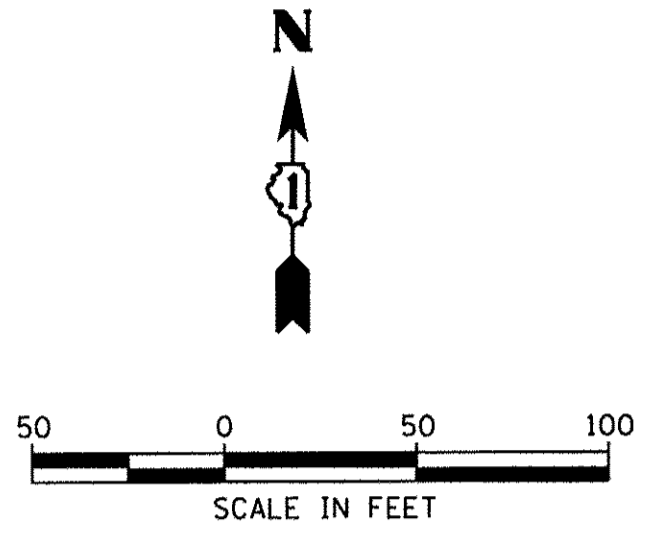
HRG PROJECT NO.: 8650350
 HRG PROJ CONTACT: 8650350-h - em-02.dgn
 FILE NAME: 15_dr_b_1.cwg
 PLOT DRIVER: l_label.plt



PROJECT ENDS
 STA 46+30.12

LEGEND:

	HMA SURF REM BUTT JT		TREE REMOVAL (10)
	PAVEMENT REMOVAL		DRIVEWAY PAVEMENT REMOVAL
	AGGREGATE SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION)		SIDEWALK REMOVAL
	COMBINATION CURB AND GUTTER REMOVAL		HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4 INCH
			HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH



PROJECT ENDS
 STA 81+14.58

CHURCH ST. STA. 24+63.85
 ST. JOHNS AVE. STA. 87+78.66



USER NAME = mzuzzio	DESIGNED - MZ	REVISED -
PLOT SCALE = 1"=50'	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

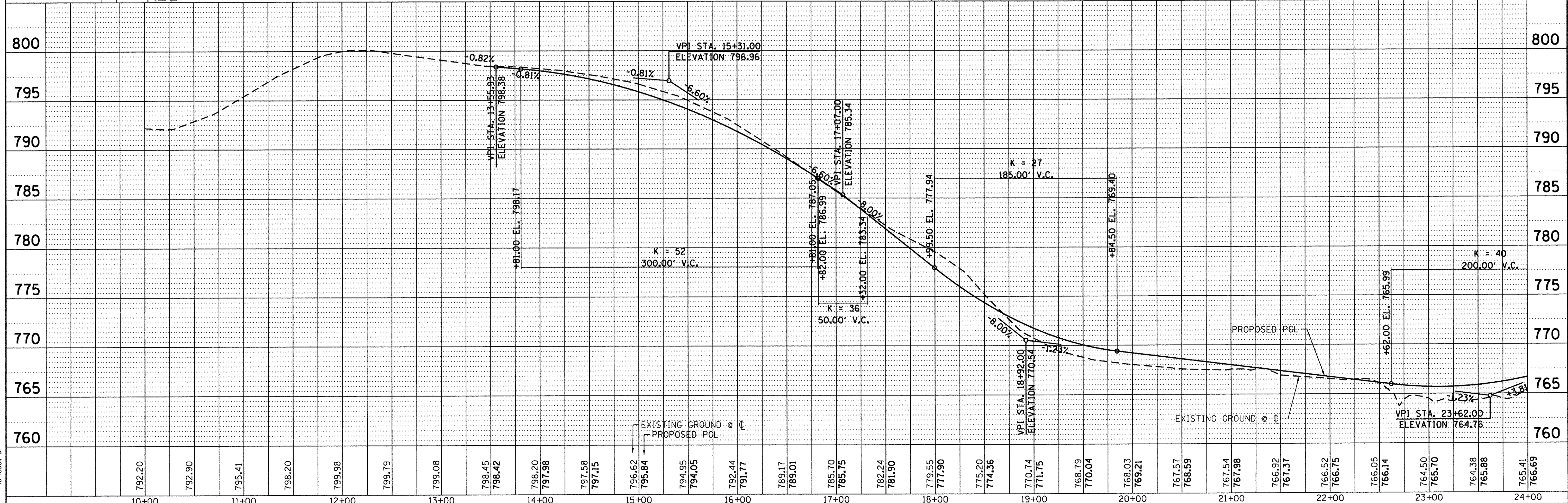
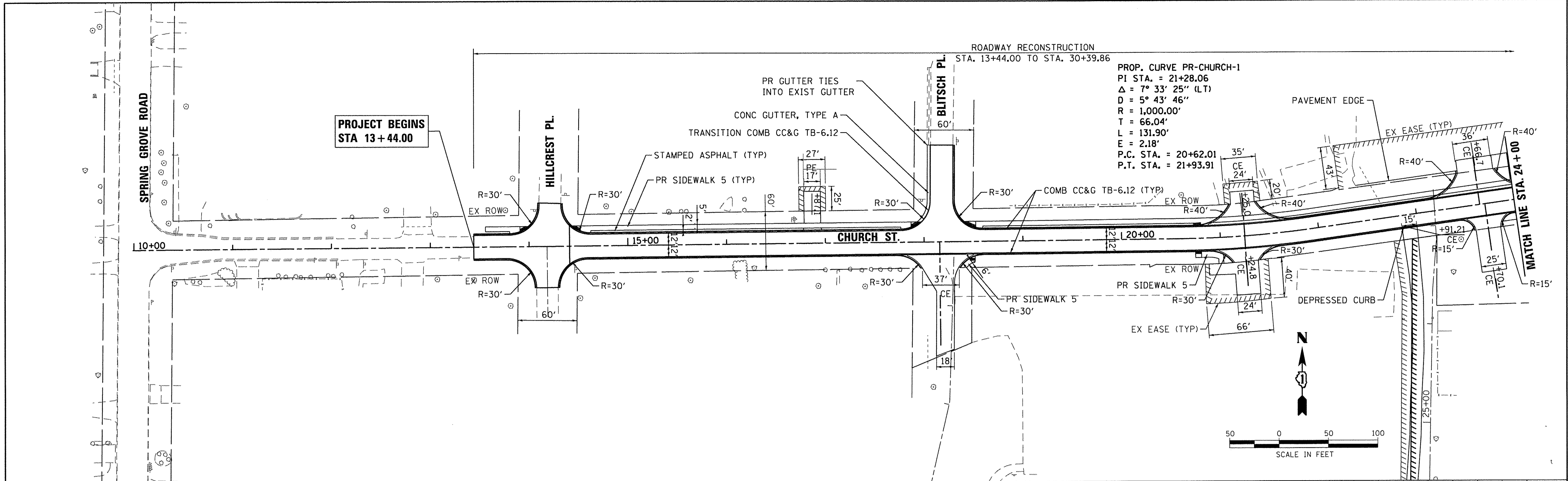
REMOVAL PLAN	
CHURCH STREET & ST. JOHN'S AVENUE	
SCALE: 1"=50'	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	15
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

DATE	
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PLAN	
SURVEYED	
ALIGNED	
RT. OF WAY CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
PAID FILE NAME	

DATE	
BY	
PROFILE	
PLOTTED	
NOTE BOOK	
NO. _____	
STRUCTURE NOTATIONS CHRD	

HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350-h - in f-0.dgn
 FILE NAME: ll_cfb_1.dwg
 PLOT DRIVER: PEN TABLE: la_label.plt



10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00	21+00	22+00	23+00	24+00																																				
792.20	792.90	795.41	798.20	799.98	799.79	799.08	798.45	798.42	798.20	797.98	797.58	797.15	796.62	795.84	794.95	794.05	792.44	791.77	789.17	789.01	785.70	785.75	782.24	781.90	779.55	777.90	775.20	774.36	770.74	771.75	768.79	770.04	768.03	769.21	767.57	768.59	767.54	767.98	766.92	767.37	766.52	766.75	766.05	766.14	764.50	765.70	764.38	765.88	765.41	766.69

HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = mzuz210	DESIGNED - MZ	REVISED -
DRAWN - DMS	REVISED -	REVISED -
CHECKED -	REVISED -	REVISED -
DATE - 12/22/16	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
CHURCH STREET

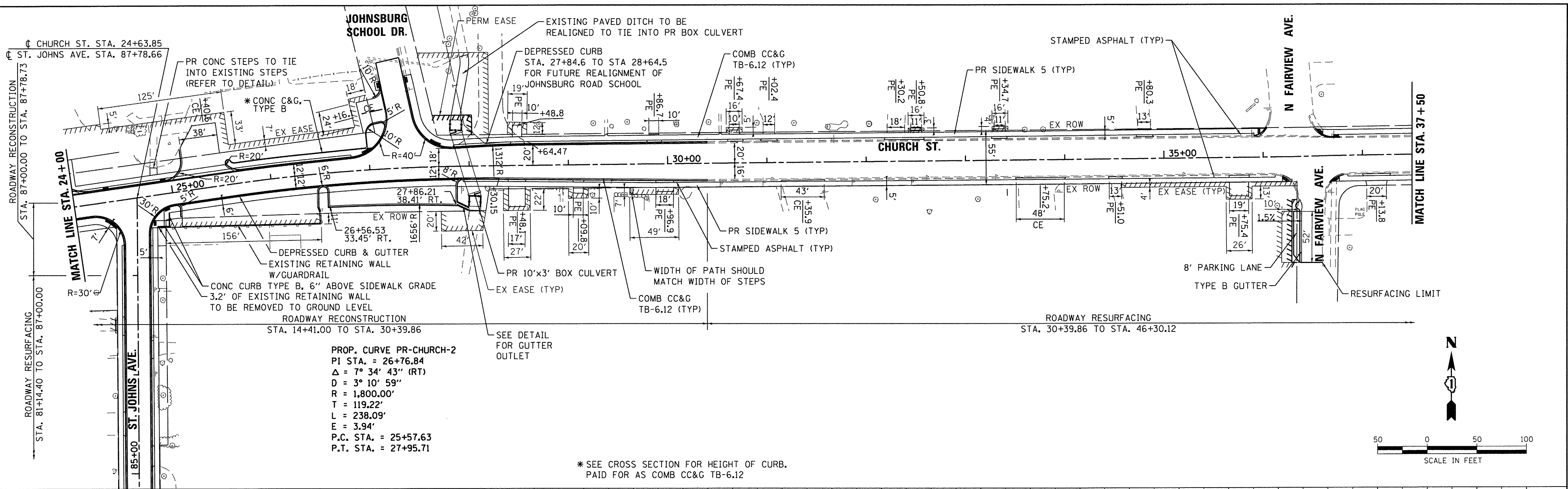
SCALE: 1"=50' SHEET NO. 1 OF 4 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	16
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY	
CHECKED	
NO. _____	
ADD FILE NAME	

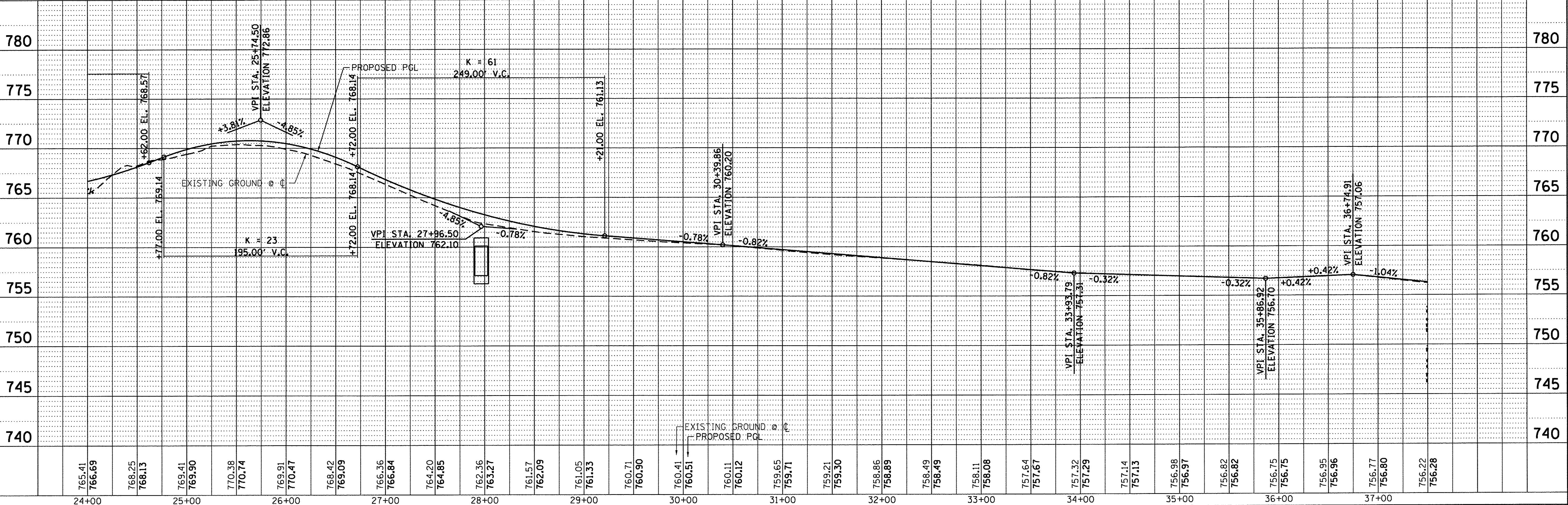
DATE	
BY	
PROFILE	
PLOTTED	
CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS CHKD	
NO. _____	

HRG PROJECT NO.: 8650350
 HRG PROJ. CONTACT: 8650350-h - m f-02.dgn
 FILE NAME: h - dz.b . i cfw
 PLOT DRIVERS: la_label.plt
 PEN TABLE:



PROP. CURVE PR-CHURCH-2
 PI STA. = 26+76.84
 $\Delta = 7^\circ 34' 43''$ (RT)
 $D = 3^\circ 10' 59''$
 $R = 1,800.00'$
 $T = 119.22'$
 $L = 238.09'$
 $E = 3.94'$
 P.C. STA. = 25+57.63
 P.T. STA. = 27+95.71

* SEE CROSS SECTION FOR HEIGHT OF CURB.
 PAID FOR AS COMB CC&G TB-6.12



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 Illinois Professional Design Firm
 # 184-001322

USER NAME = muzzio	DESIGNED - MZ	REVISED -
PLOT SCALE = 1"=50'	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
 CHURCH STREET**

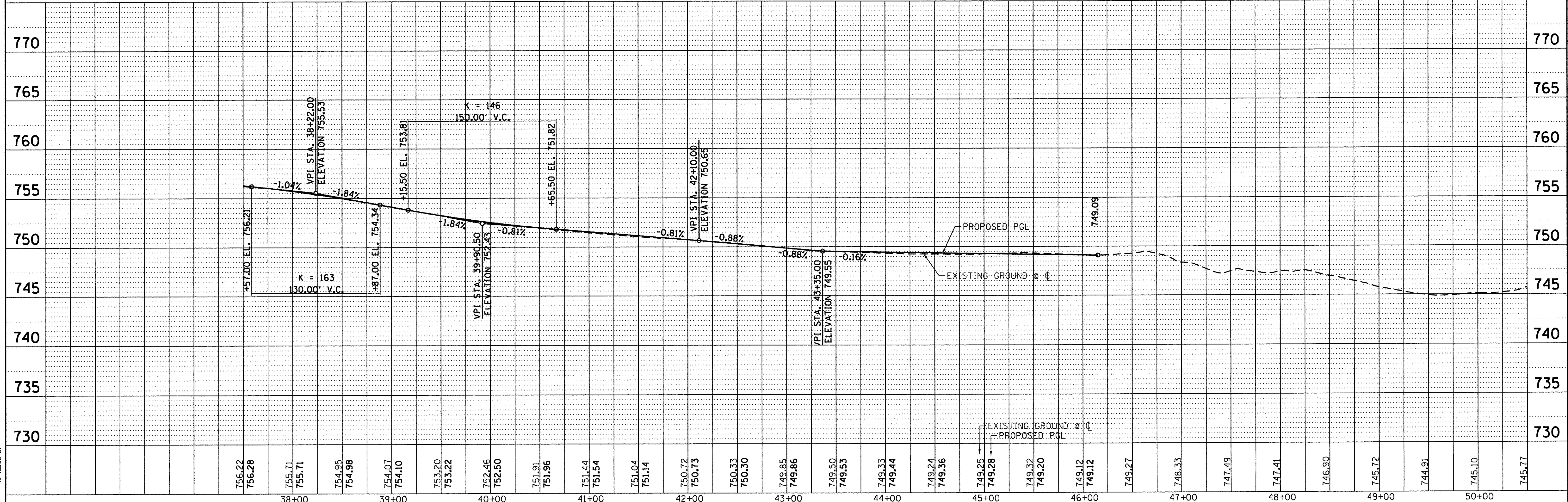
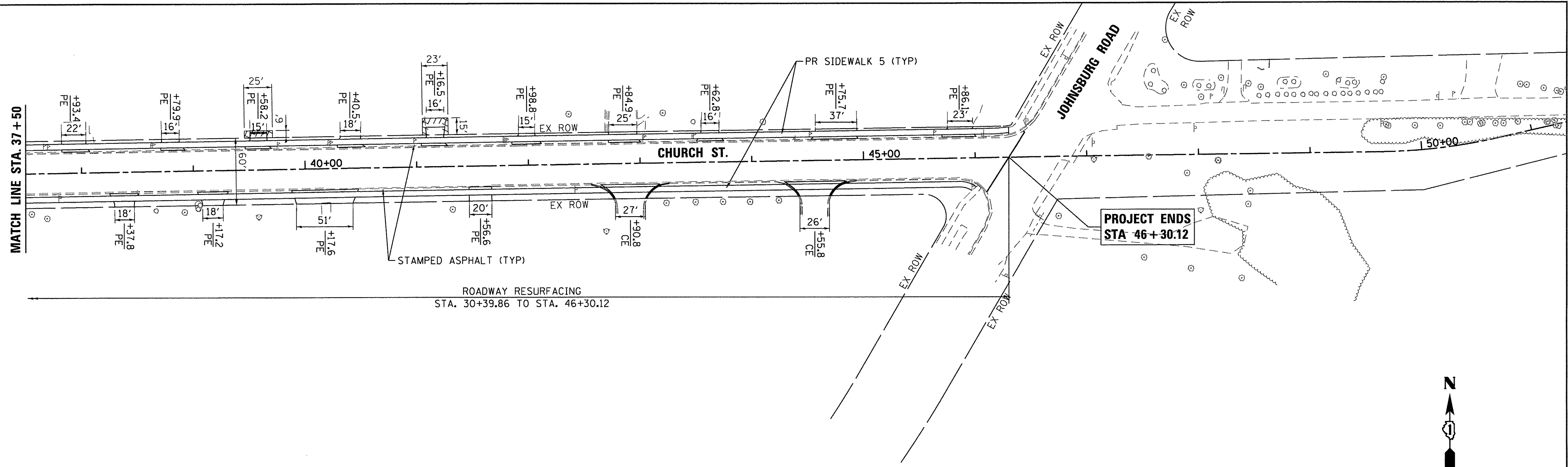
SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	17
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(B)2				

PLAN	NO.	BY	DATE
SURVEYED	ALIGNED	CHECKED	BY
NOTE BOOK	NO.	PAID FILE NAME	

PROFILE	NO.	BY	DATE
SURVEYED	ALIGNED	CHECKED	BY
NOTE BOOK	NO.	PAID FILE NAME	

HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350-h-in-f-03.dgn
 FILE NAME: il_cfb_1.dwg
 PLOT DRIVER: to label.plt
 PEN TABLE:



756.22	756.28	755.71	755.71	754.95	754.98	754.07	754.10	753.20	753.22	752.46	752.50	751.91	751.96	751.44	751.54	751.04	751.14	750.72	750.73	750.33	750.30	749.85	749.86	749.50	749.53	749.33	749.44	749.24	749.36	749.25	749.28	749.32	749.20	749.12	749.12	749.27	748.33	747.49	747.41	746.90	745.72	744.91	745.10	745.77
38+00		39+00		40+00		41+00		42+00		43+00		44+00		45+00		46+00		47+00		48+00		49+00		50+00																				

HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = mzuzzio	DESIGNED - MZ	REVISED -
DRAWN - DMS	REVISED -	REVISED -
CHECKED -	REVISED -	REVISED -
DATE - 12/22/16	REVISED -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
 CHURCH STREET**

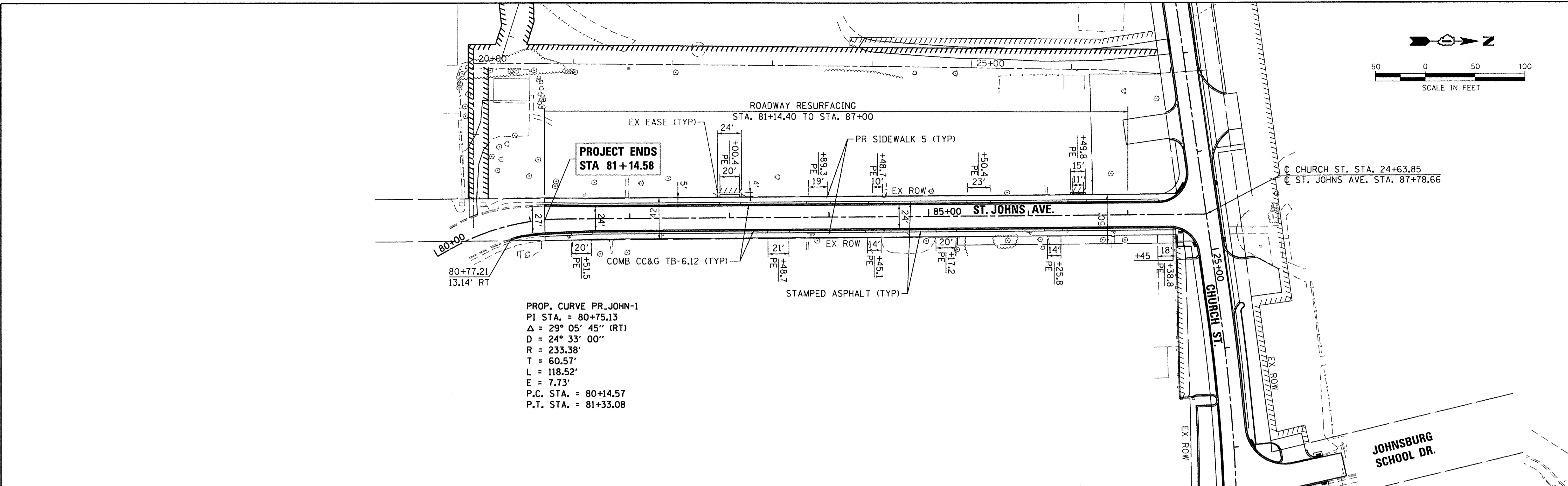
SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	18
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

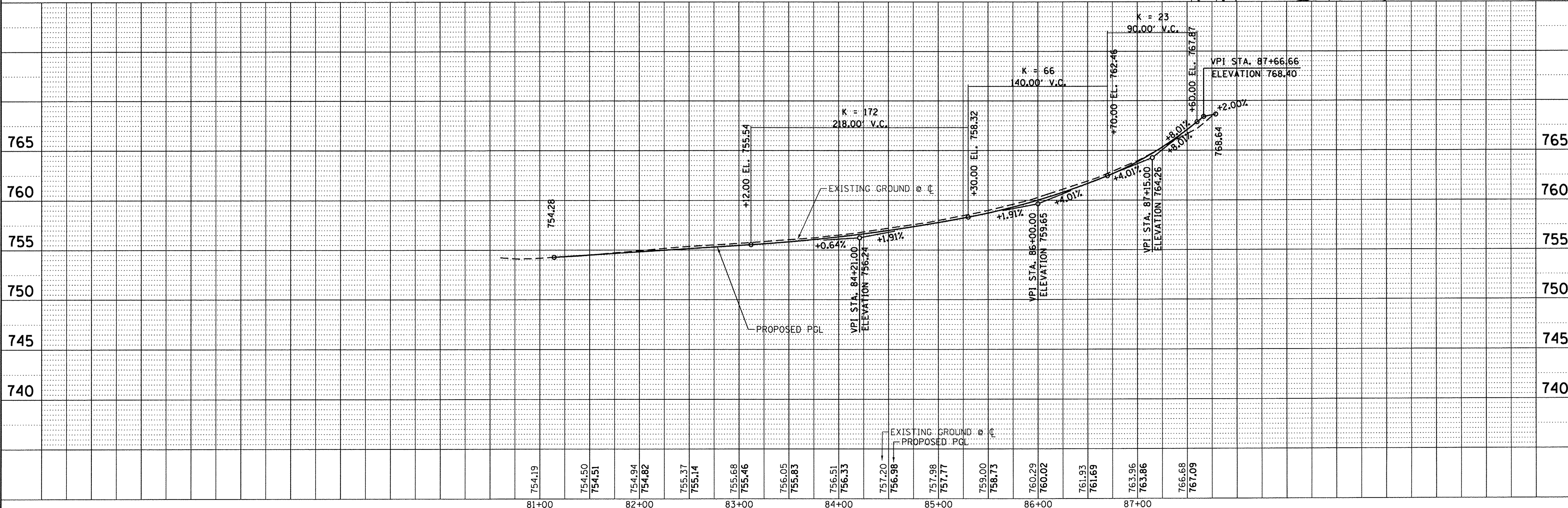
DATE	
BY	
PLAN	
NO. _____	
NOTE BOOK	
NO. _____	
CHECKED	
BY	
DATE	
DATE	
BY	
DATE	
BY	
DATE	

DATE	
BY	
PROFILE	
NO. _____	
NOTE BOOK	
NO. _____	
CHECKED	
BY	
DATE	
DATE	
BY	
DATE	
BY	
DATE	

HRG PROJECT NO.: 8650350
 HRG PROJ. CONTACT: 8650350-h.m.f-04.dgn
 FILE NAME: h.m.f.d.f.cfg
 PLOT DRIVER: to label.plt
 PEN TABLE:



PROP. CURVE PR_JOHN-1
 PI STA. = 80+75.13
 $\Delta = 29^\circ 05' 45''$ (RT)
 $D = 24^\circ 33' 00''$
 $R = 233.38'$
 $T = 60.57'$
 $L = 118.52'$
 $E = 7.73'$
 P.C. STA. = 80+14.57
 P.T. STA. = 81+33.08

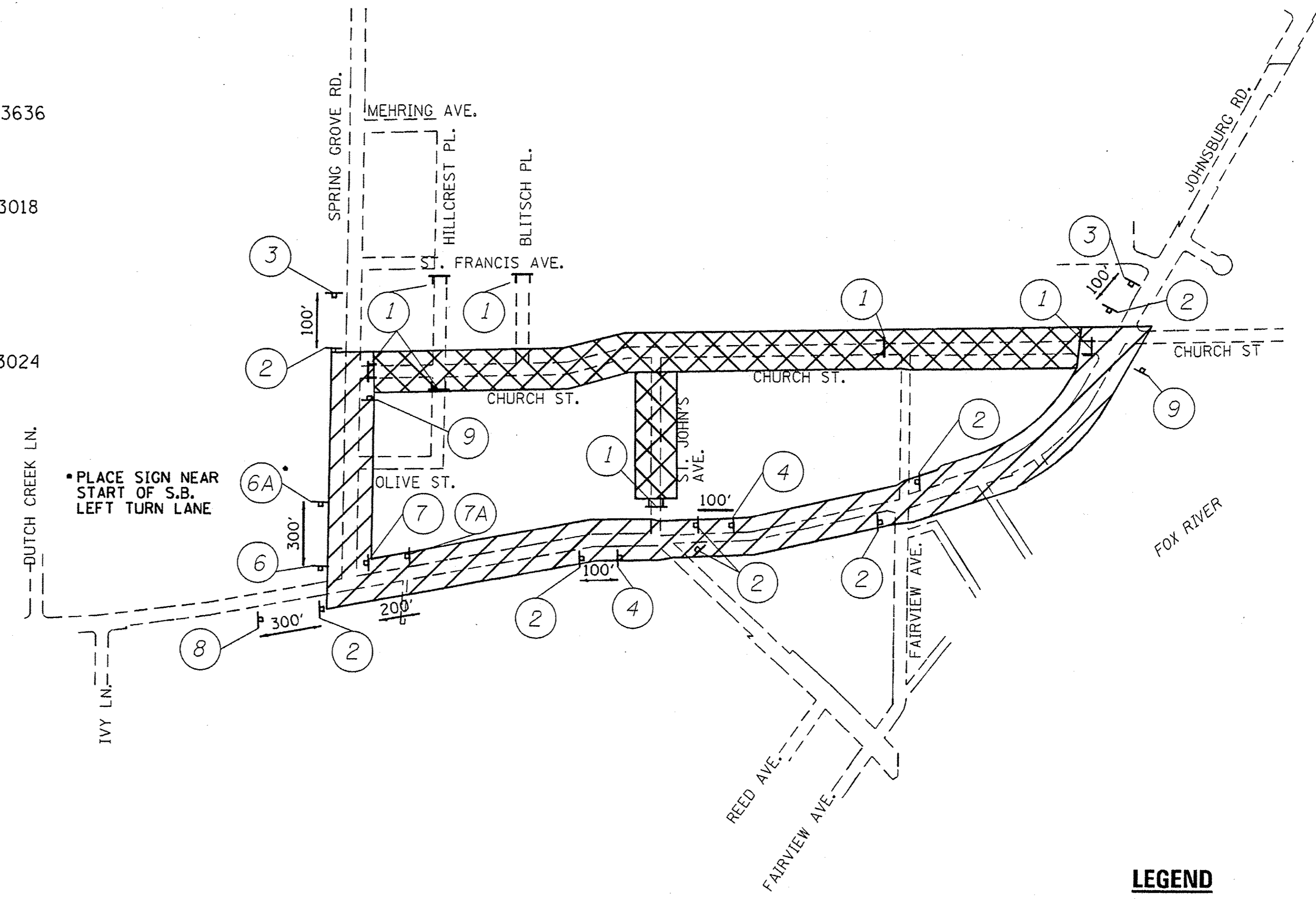
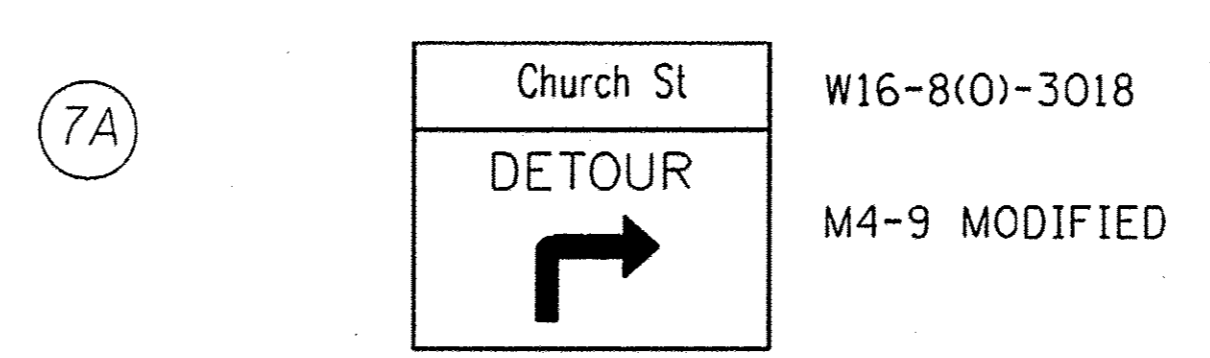
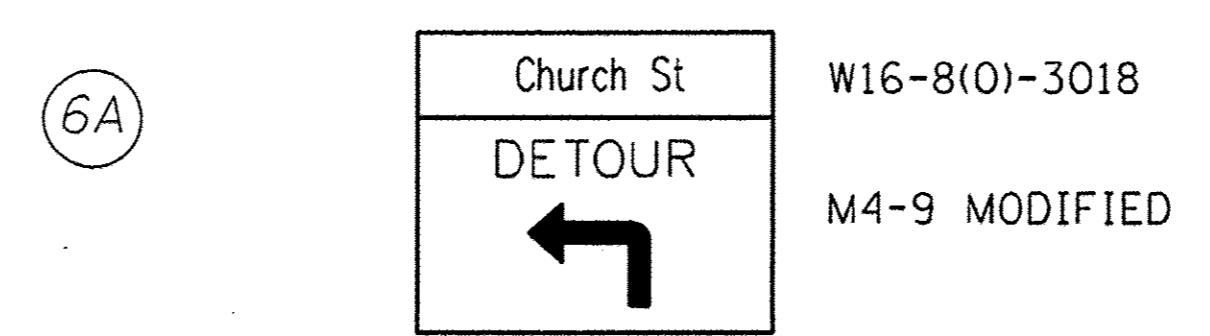
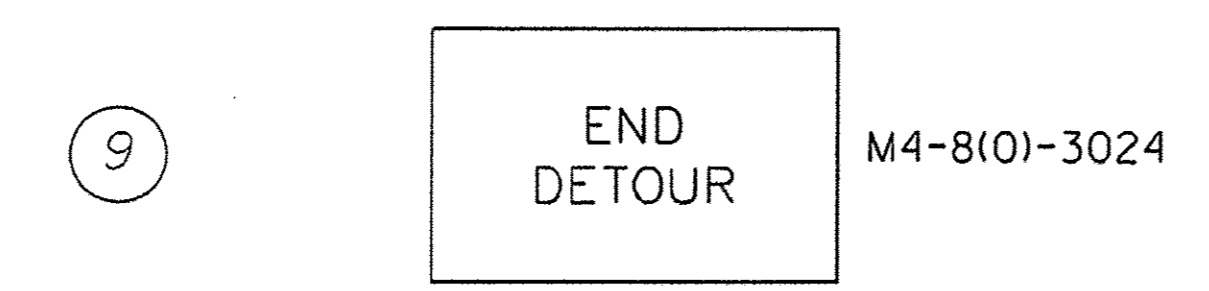
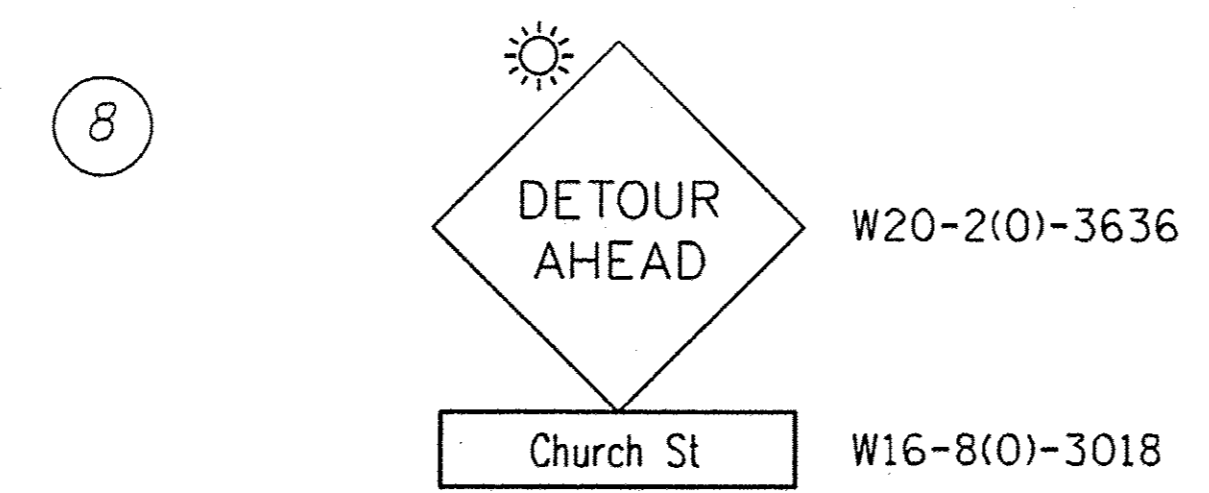
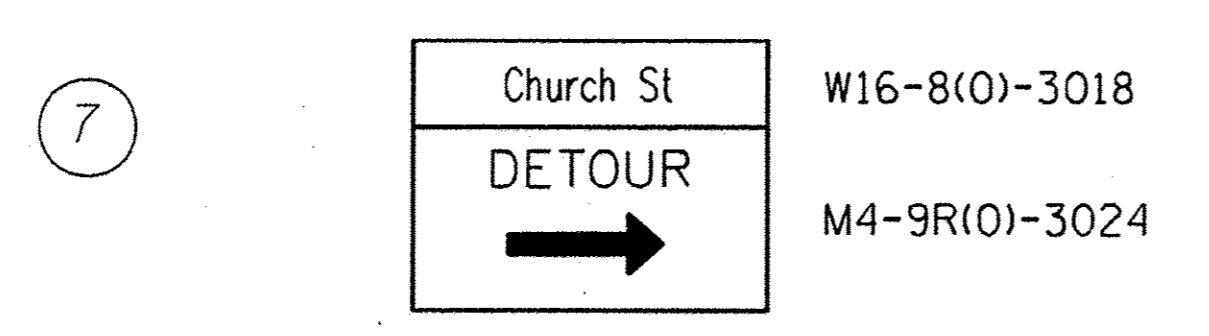
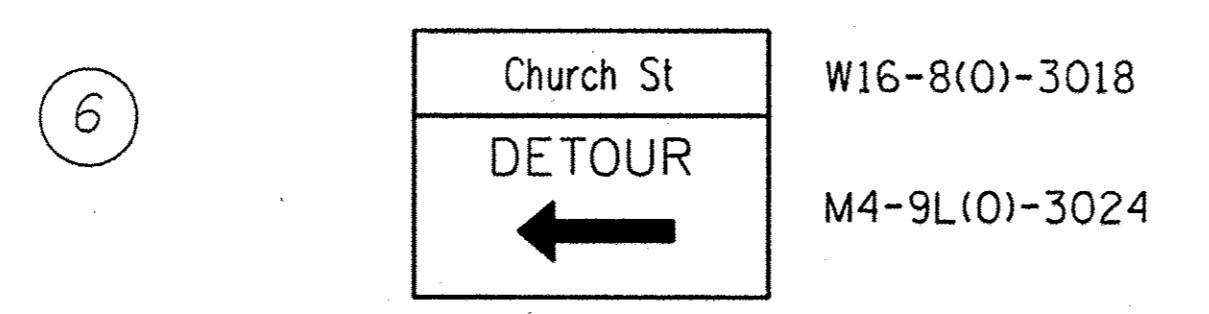
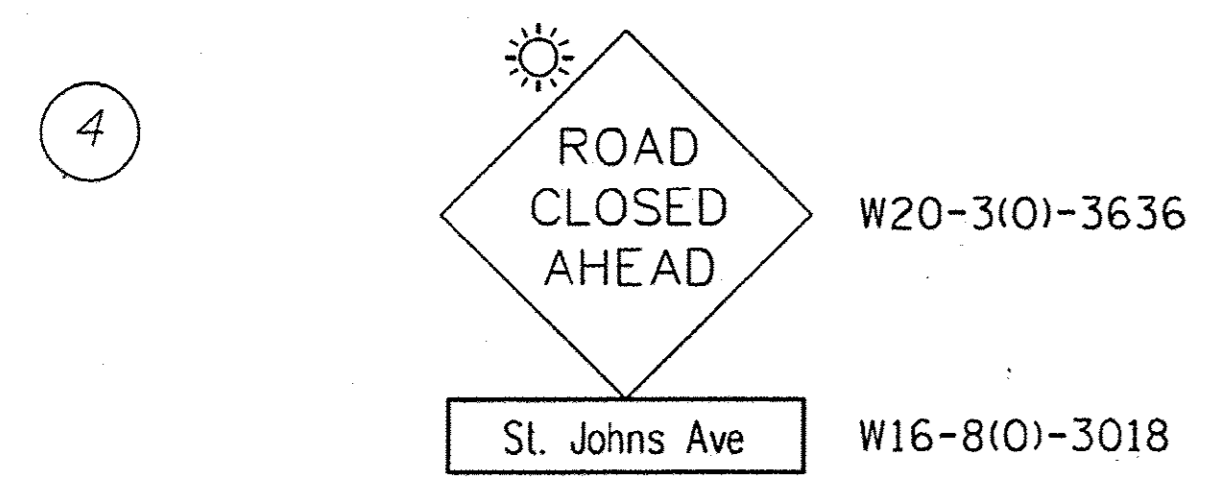
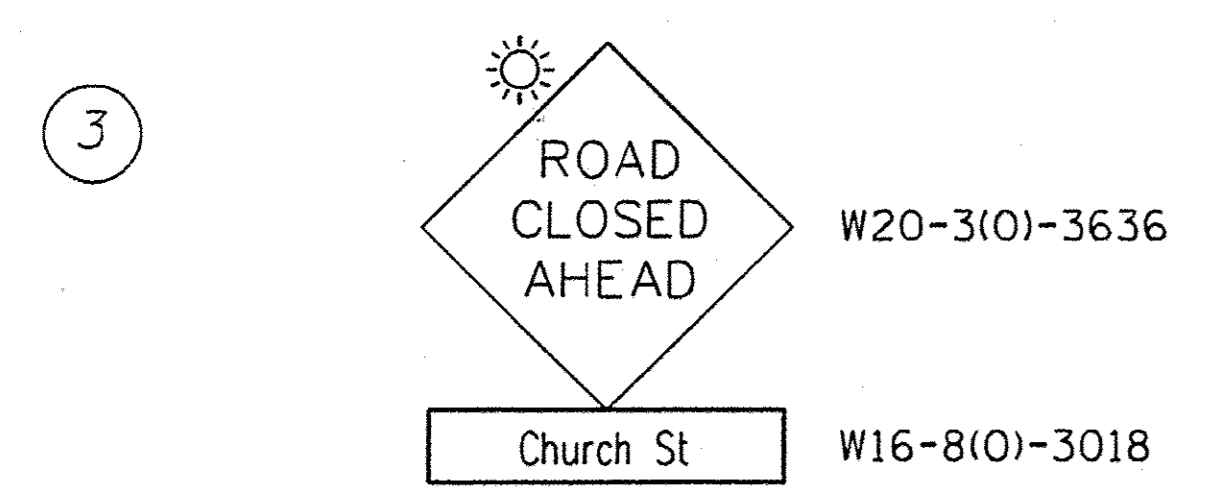
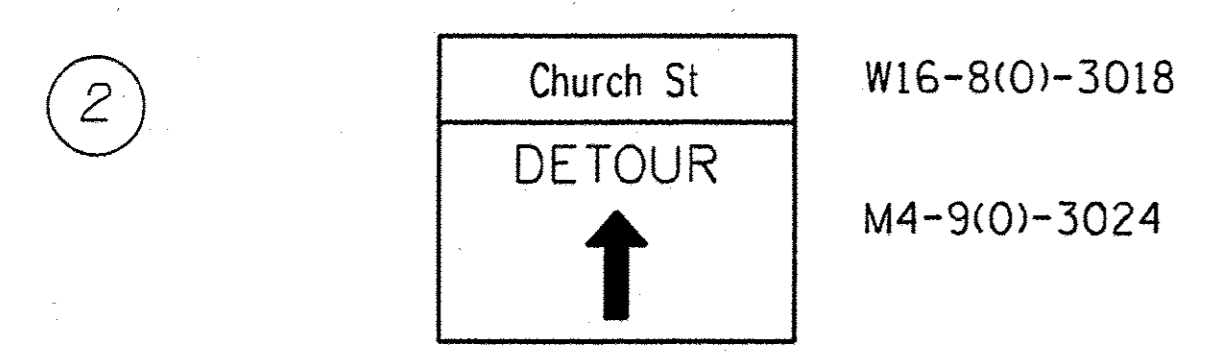
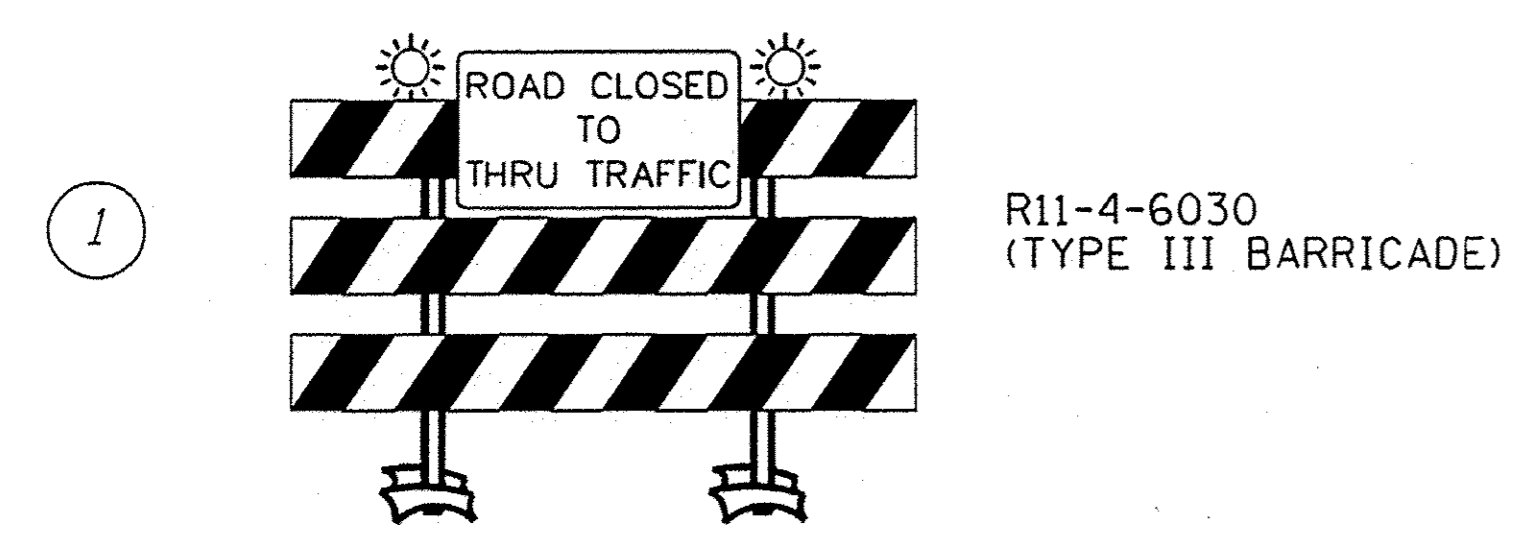


HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = mzuzzio	DESIGNED - MZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE ST JOHNS AVENUE	SCALE: 1"=50'	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.	MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1"=50'	CHECKED -	REVISED -	8500						15-00013-00-PV	MCHENRY	95	19	
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -	CONTRACT NO. 61D31										

PLAN	DATE
NO.	
BY	
DATE	
SURVEYED	
ALIGNED	
CHECKED	
PT. OF WAY CHECKED	
ROAD FILE NAME	

PROFILE	DATE
NO.	
BY	
DATE	
SURVEYED	
GRADES CHECKED	
E.M. NOTED	
STRUCTURE NOTED	
THIS GRID	

HRG PROJECT NO.: 86150230
 HRG PROJ. CONTACT: 86150230-ent-de-our-007
 FILE NAME: il_per_bwp1rctg
 PLOT DRIVER: pldr100.tbl



NOTE: DURING CONSTRUCTION THE CONTRACTOR WILL ENSURE THERE ARE NO DROP OFFS OR THE DROP OFFS ARE PROTECTED FROM TRAFFIC.

ACCESS FOR LOCAL TRAFFIC AND TO ST. JOHNS CHURCH AND SCHOOL MUST BE MAINTAINED DURING CONSTRUCTION.

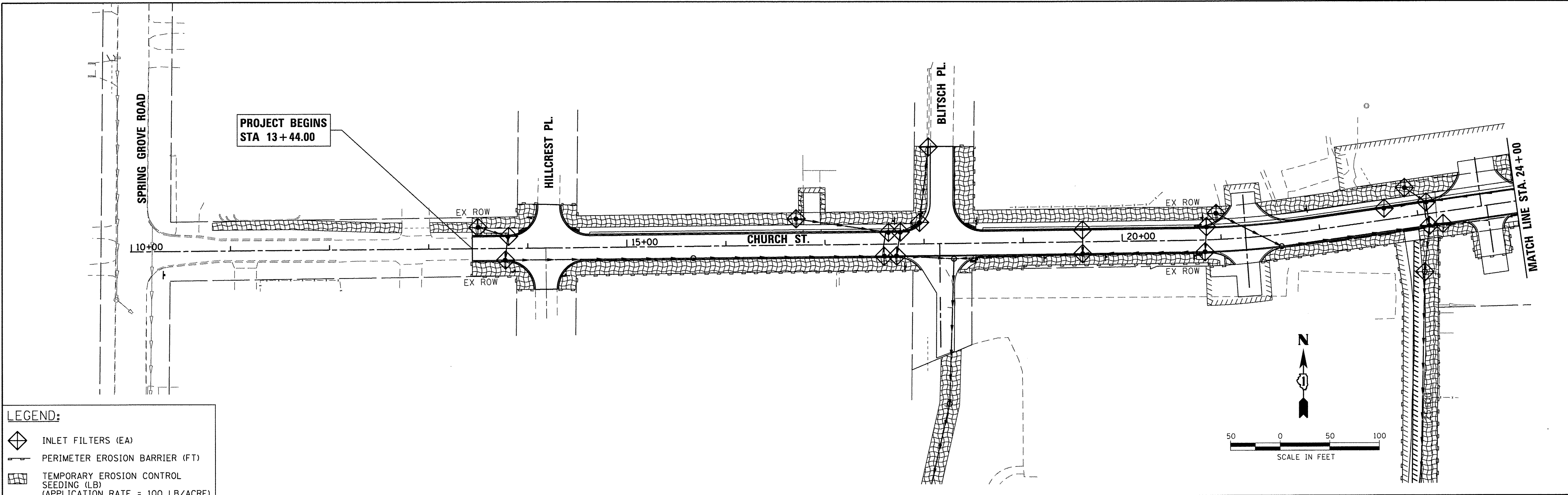
LEGEND

	WORK ZONE
	DETOUR ROUTE
4	DETOUR GUIDE SIGN
1	BARRICADE, TYPE III PLACE PER HIGHWAY STANDARD 701901

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTED		
	FILED		
	NO. _____		

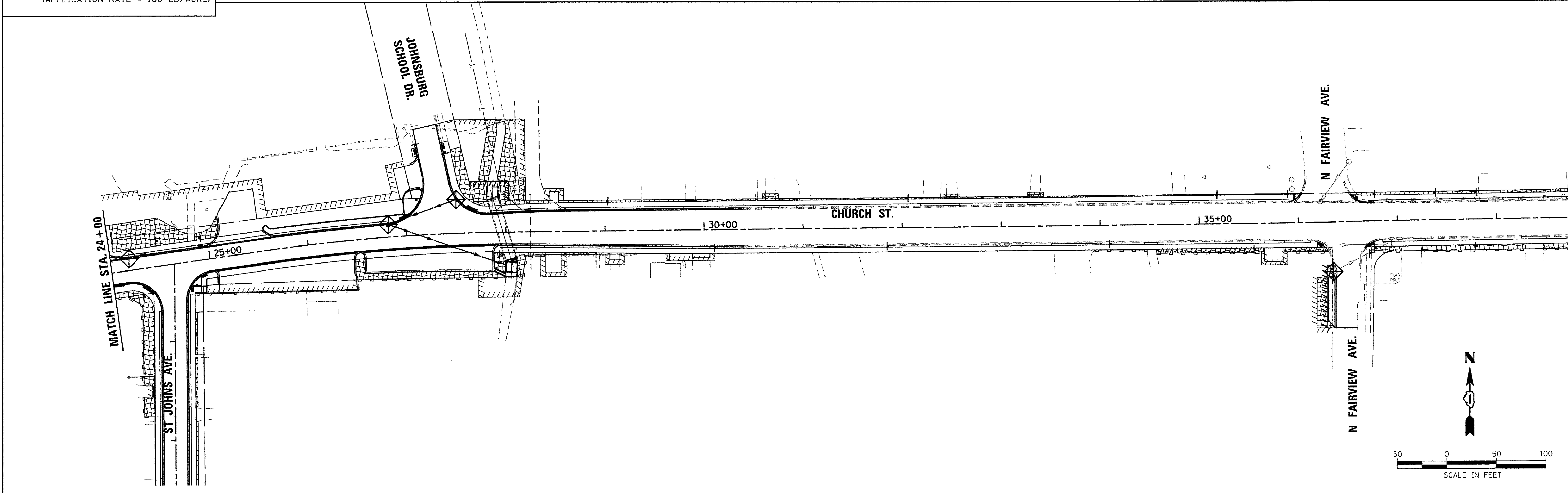
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTED		
	FILED		
	NO. _____		

HRG PROJECT NO.: 8660350
 HRG CONTACT: 8660350
 FILE NAME: h - 8660350 - 01.dgn
 PLOT DRIVER: ll_crf_b - 1.crf
 PEN TABLE: to_label.bl



LEGEND:

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB) (APPLICATION RATE = 100 LB/ACRE)

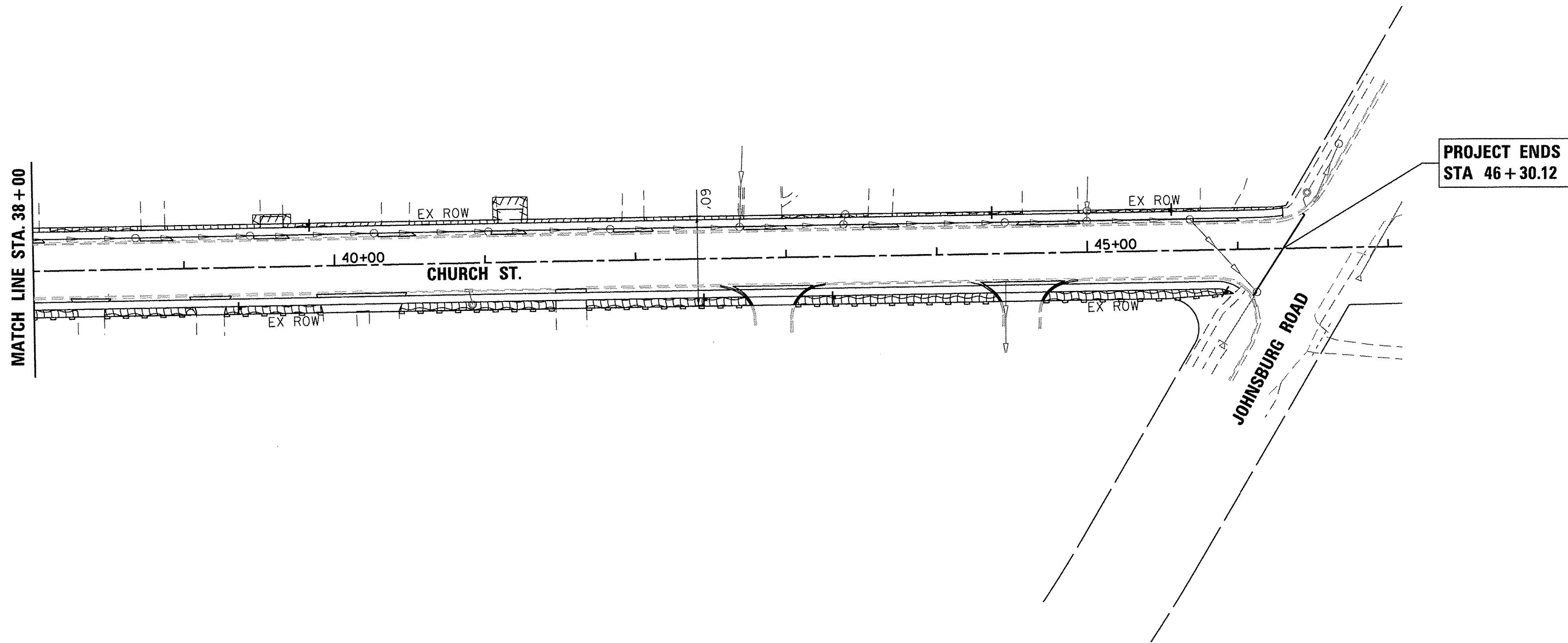


HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = mzuzzio	DESIGNED - MZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN CHURCH STREET		MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1"=50'	DRAWN - DMS	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	8500	15-00013-00-PV	MCHENRY
	PLOT DATE = 12/22/2016	CHECKED -	REVISED -				CONTRACT NO. 61031				
		DATE - 12/22/16	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812				

PLAN	SURVEYED	DATE
	PLANNED	
	NOTED	
	BY	
	NO. OF WAY CHECKED	
	PAID FILE NAME	

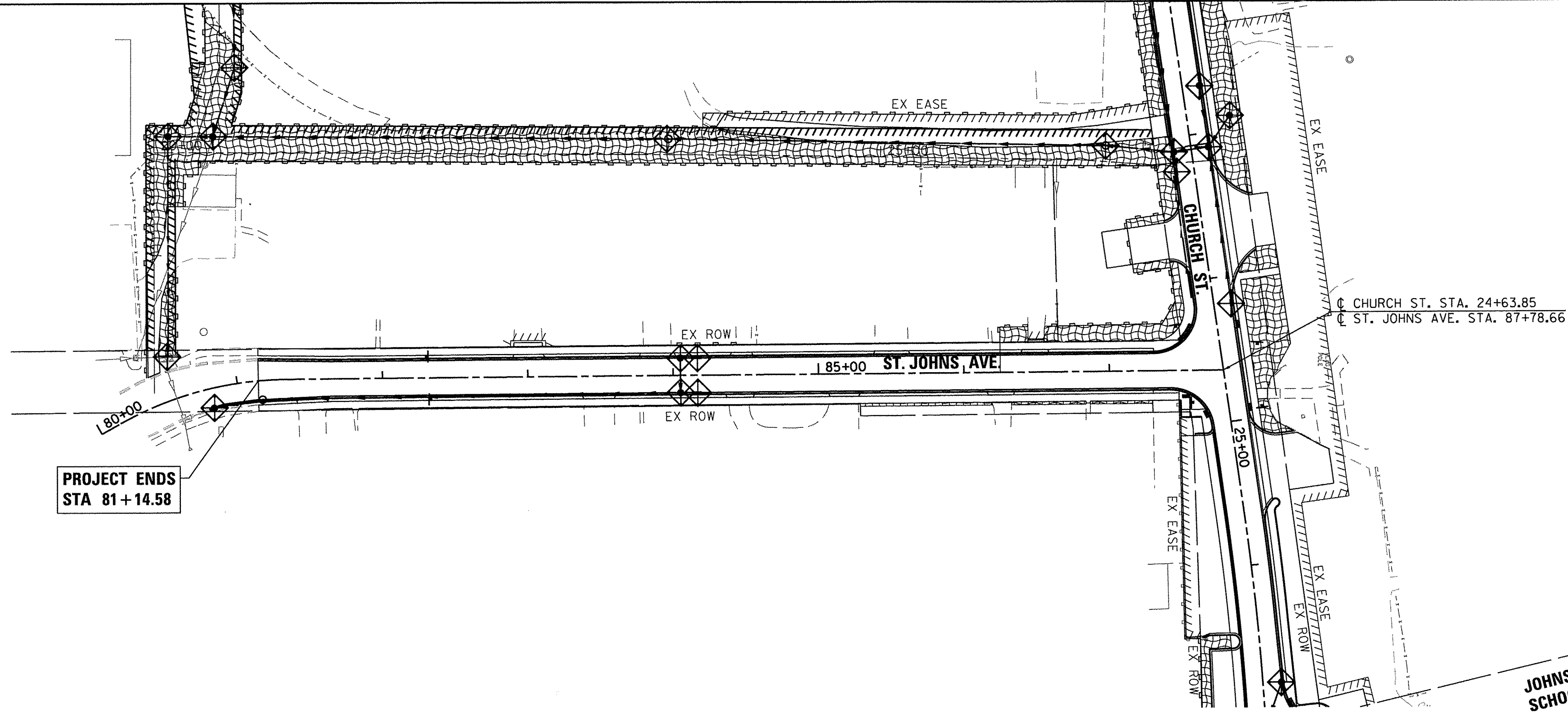
PROFILE	SURVEYED	DATE
	PLANNED	
	NOTED	
	BY	
	NO. OF WAY CHECKED	
	PAID FILE NAME	

HRG PROJECT NO.: 8650350
 HRG PROJECT CONTACT: 8650350-1-19-0-02.dgn
 FILE NAME: 8650350-1-19-0-02.dgn
 PLOT DRIVER: hr_green.plt
 PEN TABLE: to_label.plt



LEGEND:

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB) (APPLICATION RATE = 100 LB/ACRE)



USER NAME = mzuzio	DESIGNED - MZ	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=50'	CHECKED -	REVISED -
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN	
CHURCH STREET & ST. JOHN'S AVENUE	
SCALE: 1"=50'	SHEET NO. 2 OF 3 SHEETS
STA.	TO STA.

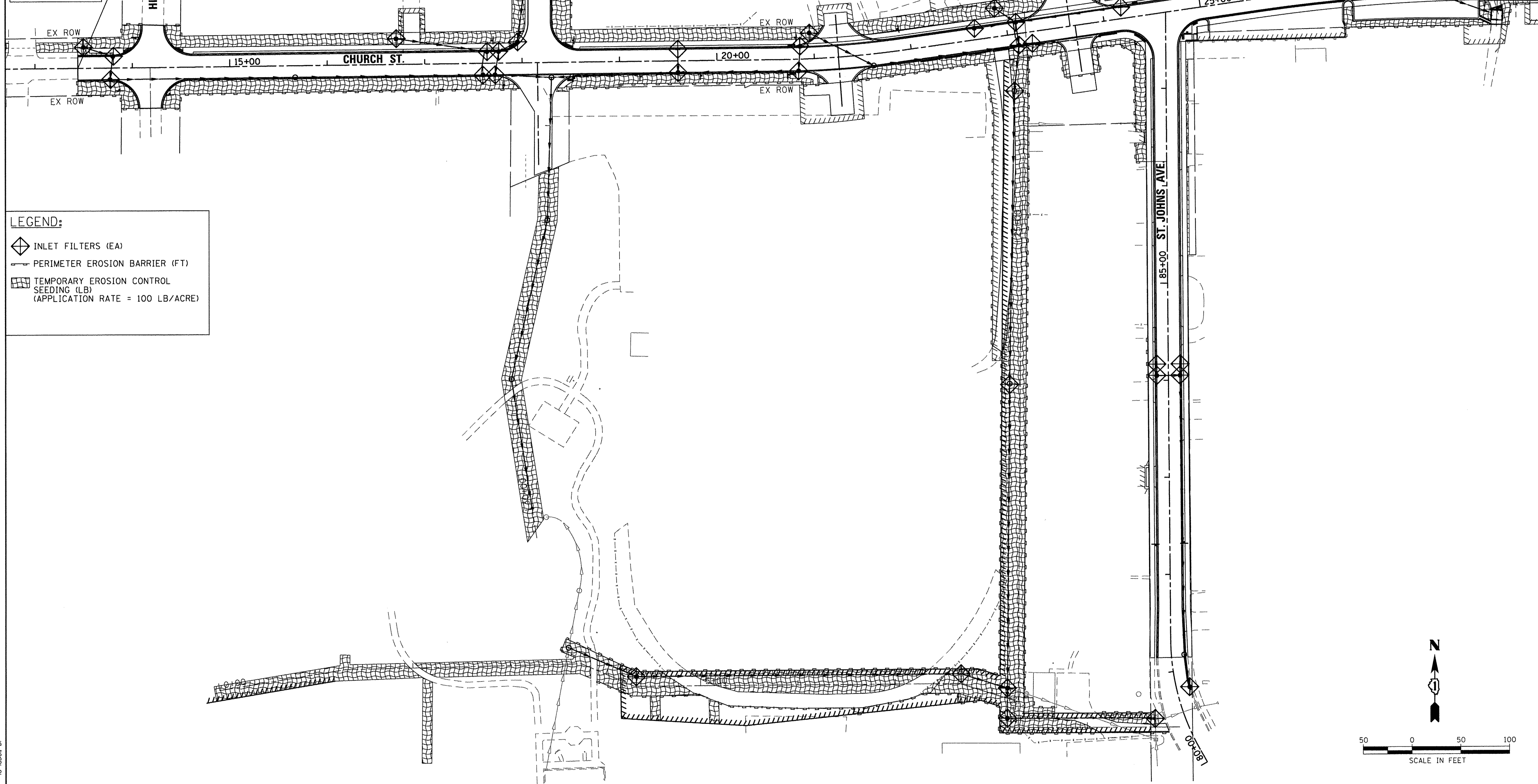
MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	22
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

PLAN	SURVEYED	DATE
	ALIGNED	
	NOTED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	BY	
	NO.	

HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350-h-a-o-02.dgn
 FILE NAME: 8660350-h-a-o-02.dgn
 PLOT DRIVER: l_crf.b .l cfr
 PEN TABLE: la label, bl

PROJECT BEGINS
 STA 13+44.00



LEGEND:

- ◆ INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- ▨ TEMPORARY EROSION CONTROL SEEDING (LB) (APPLICATION RATE = 100 LB/ACRE)

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 Illinois Professional Design Firm
 #184-001922

USER NAME =	mzu2210
DESIGNED -	MZ
DRAWN -	DMS
CHECKED -	
DATE -	12/22/16

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
 RESCUE SQUAD PARK/TIGER'S FIELD**

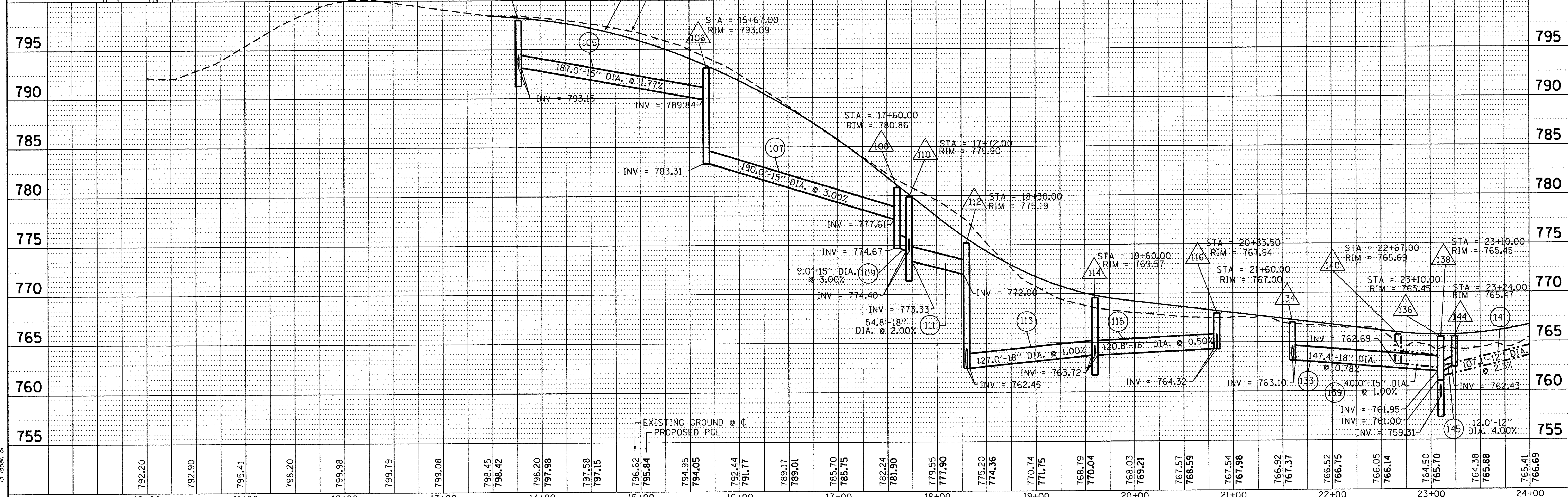
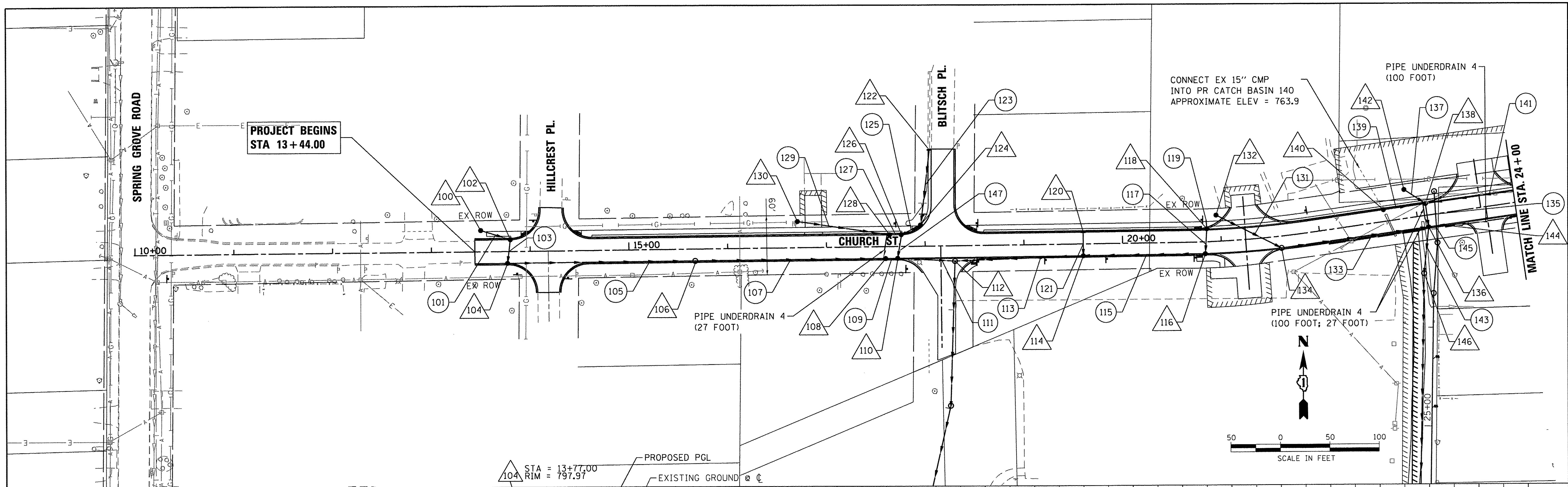
SCALE: 1"=50' SHEET NO. 3 OF 3 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	23
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

PLAN	SURVEYED	DATE
	NOTED	
	BY	
	NO.	
	BY	
	NO.	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	NOTED	
	BY	
	NO.	
	BY	
	NO.	
	BY	
	NO.	

HRG PROJECT NO.: 8660350
 FILE NAME: 8660350_P-01.dwg
 PLOT DRIVER: hr_gplot.plt
 PEN TABLE: io_label.plt



10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00	21+00	22+00	23+00	24+00																																				
792.20	792.90	795.41	798.20	799.98	799.79	799.08	798.45	798.42	798.20	797.98	797.58	797.15	796.62	795.84	794.95	794.05	792.44	791.77	789.17	789.01	785.70	785.75	782.24	781.90	779.55	777.90	775.20	774.36	770.74	771.75	768.79	770.04	768.03	769.21	767.57	768.59	767.54	767.98	766.92	767.37	766.52	766.75	766.05	766.14	764.50	765.70	764.38	765.88	765.41	766.69



HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = mzuz10
 DESIGNED - MZ
 DRAWN - DMS
 CHECKED -
 DATE - 12/22/16

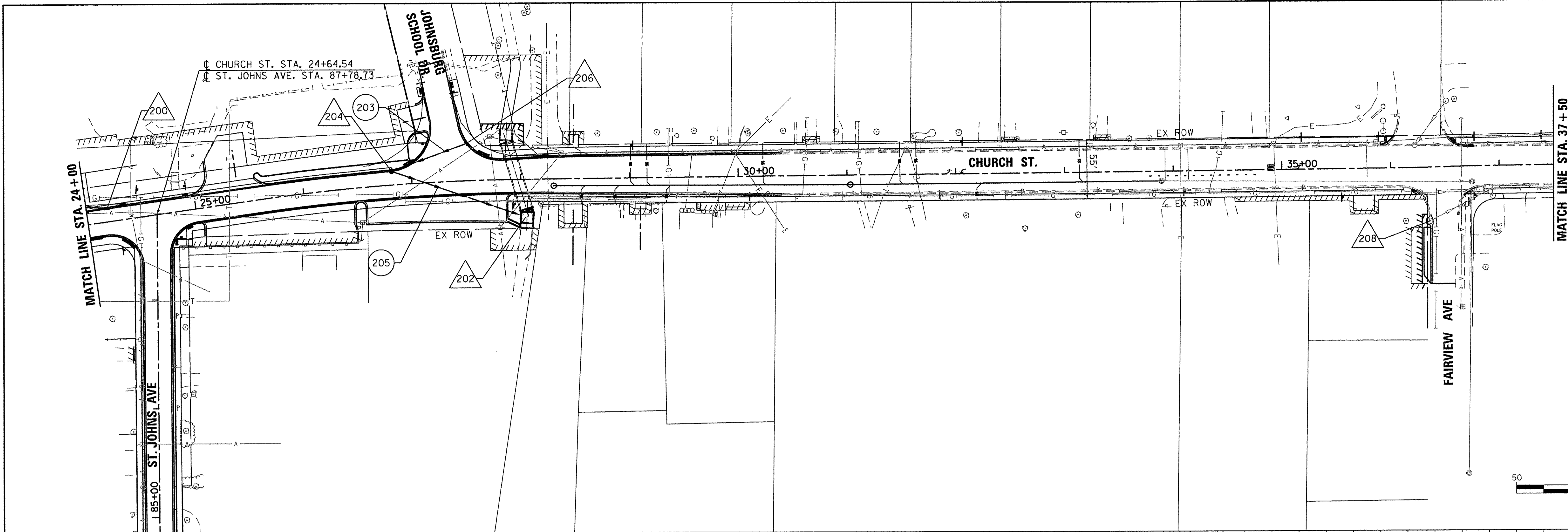
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

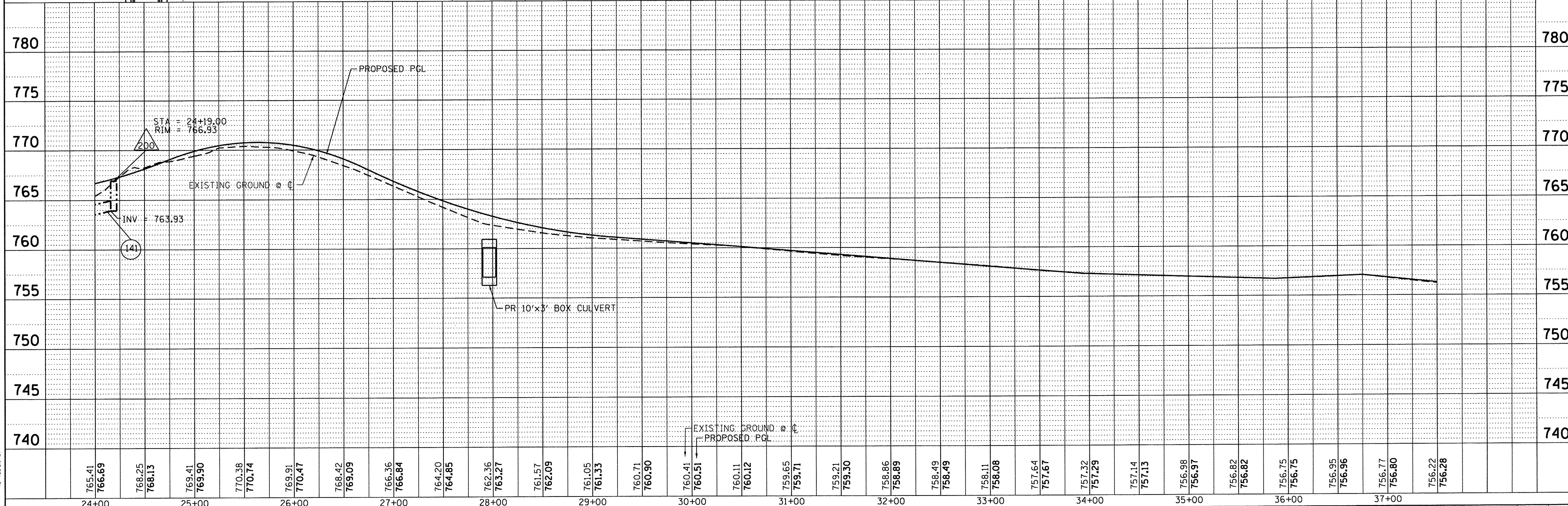
DRAINAGE AND UTILITY PLAN & PROFILE
 CHURCH STREET
 SCALE: 1"=50'
 SHEET NO. 1 OF 11 SHEETS
 STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	24
FED. ROAD DIST. NO. 1 ILLINOIS				CONTRACT NO. 61D31
FED. AID PROJECT				M-4003(812)

DATE	
BY	
PLAN	
NO. _____	
NOTE BOOK	
NO. _____	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY CHECKED	
PAID FILE NAME	



DATE	
BY	
PROFILE	
NO. _____	
NOTE BOOK	
NO. _____	
SURVEYED	
PLOTTED	
CHECKED	
BLK. NOTED	
STRUCTURE NOTATIONS CHECKED	



HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350-h-a-01m-02.dgn
 FILE NAME: 8660350-h-a-01m-02.dgn
 PLOT DRIVER: ilc_rfb_l_1.ctb
 PEN TABLE: la_label.tbl

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Illinois Professional Design Firm
#184-001322
HRGreen

USER NAME = mzu210	DESIGNED - MZ	REVISIED -
	DRAWN - DMS	REVISIED -
PLOT SCALE = 1"=50'	CHECKED -	REVISIED -
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

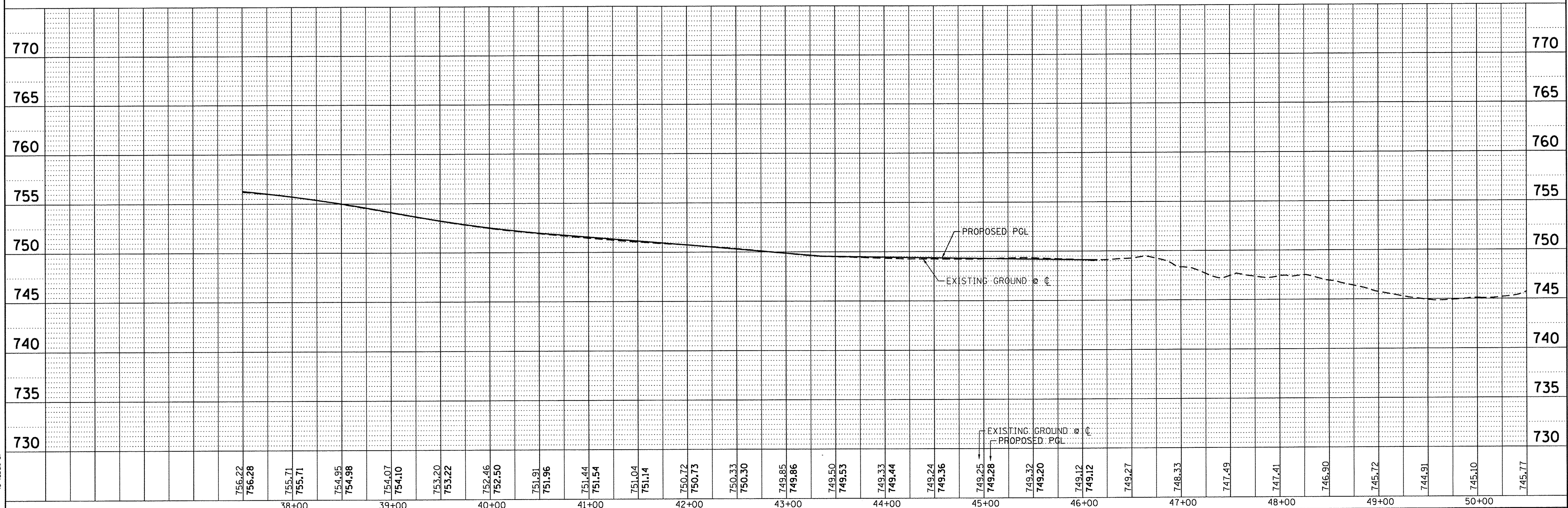
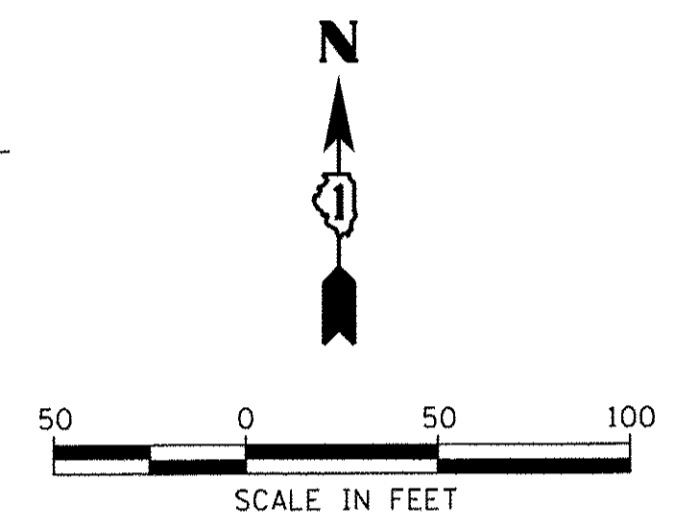
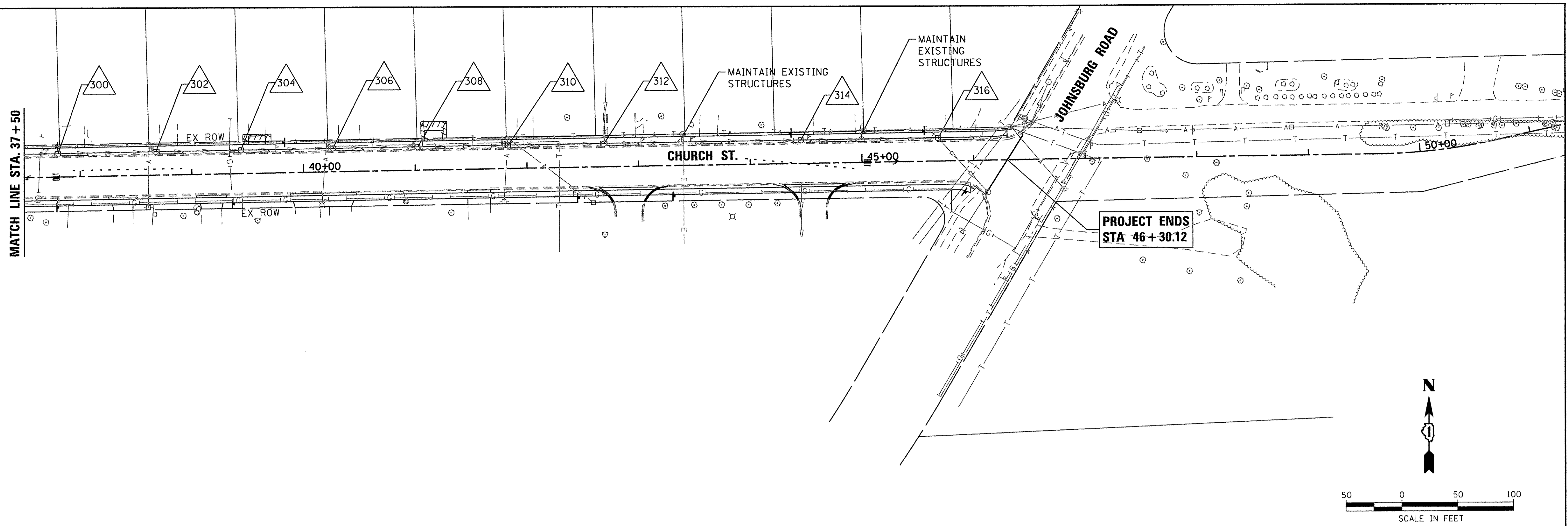
DRAINAGE AND UTILITY PLAN & PROFILE
CHURCH STREET

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	25
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-40031812	

PLAN	SURVEYED	BY	DATE
	NOTE BOOK NO.		
PROFILE	DESIGNED	BY	DATE
	CHECKED		
ALIGNED RT. OF WAY CHECKED PADD FILE NAME			

PROFILE	SURVEYED	BY	DATE
	NOTE BOOK NO.		
CHECKED B.M. NOTED STRUCTURE NOTATIONS OK'D			

HRC PROJECT NO.: 8650350
 HRC PROJ. CONTACT: 8650350-h-d a/m-03.dgn
 FILE NAME: ll_of_b_1_of_g
 PLOT DRIVER: to label, b1
 PEN TABLE:

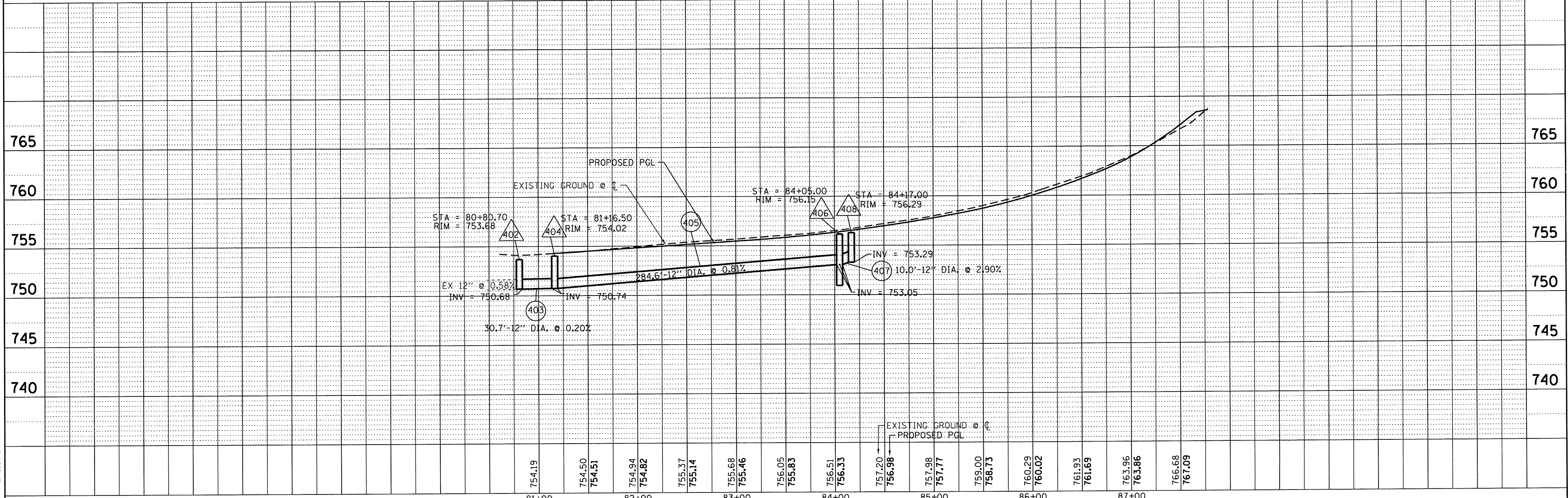
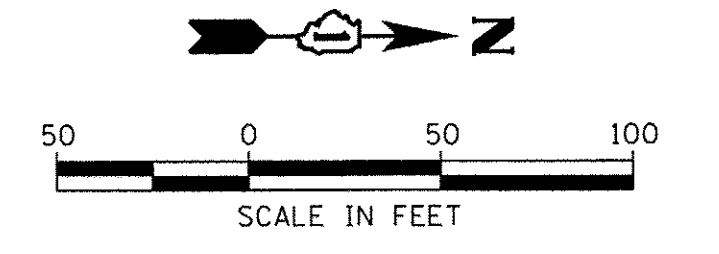
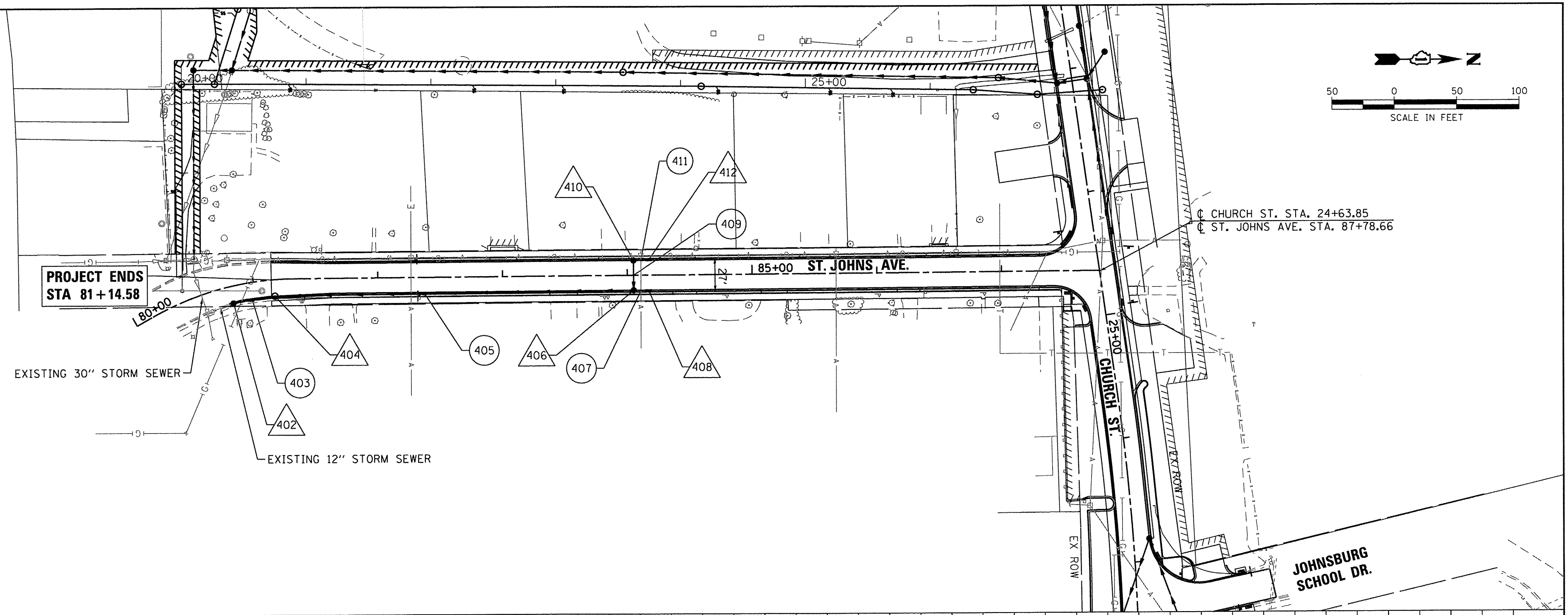


HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = m2uz21o DESIGNED - MZ DRAWN - DMS CHECKED - DATE - 12/22/16	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN & PROFILE CHURCH STREET		MUN ST 8500 SECTION NO. 15-00013-00-PV COUNTY MCHENRY TOTAL SHEETS 95 SHEET NO. 26	CONTRACT NO. 61031 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812
	PLOT SCALE = 1"=50' PLOT DATE = 12/22/2016	SCALE: 1"=50' SHEET NO. 3 OF 11 SHEETS STA. _____ TO STA. _____					

PLAN	BY	DATE
SURVEYED		
ALIGNED		
CHECKED		
NO. OF		
FILE		
NAME		

PROFILE	BY	DATE
SURVEYED		
GRADES		
CHECKED		
NO. OF		
NOTATIONS		
CHRD		

HRG PROJECT NO.: 8660350
 HRG PROJ. CONTACT: 8660350-h-d ah-04.dgn
 FILE NAME: l. off.b . i cfg
 PLOT DRIVER: la label. bl
 PEN TABLE:

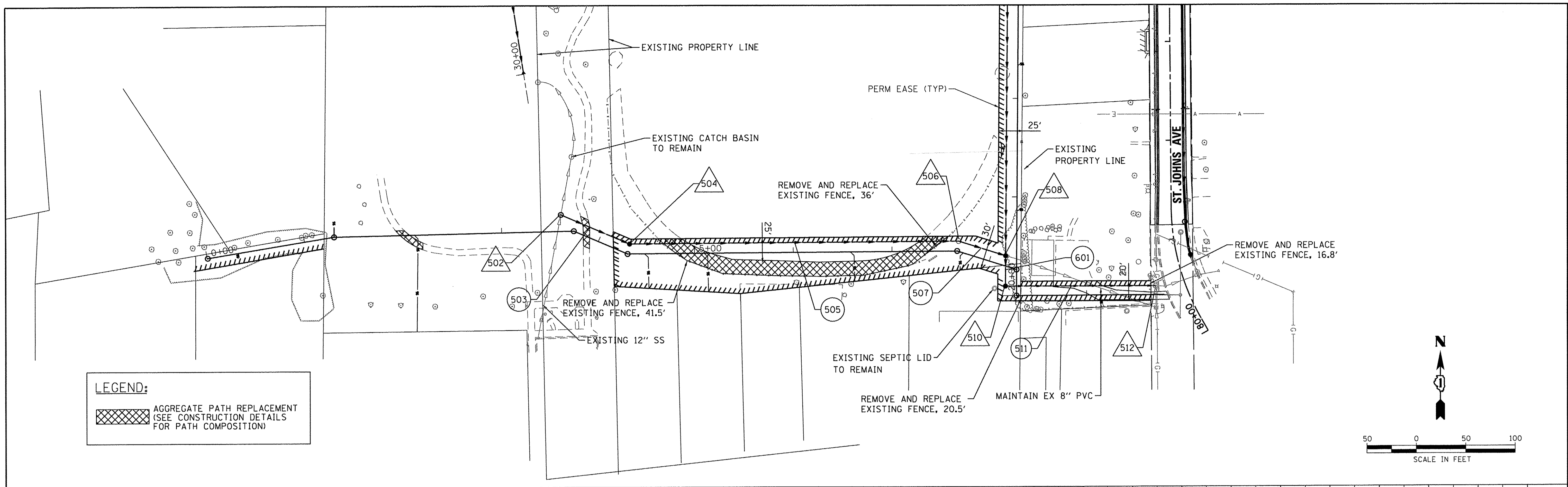


HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = mzuz210	DESIGNED - MZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN & PROFILE ST JOHNS AVENUE			MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1"=50'	DATE = 12/22/16	DRAWN - DMS	REVISED -		SCALE: 1"=50'	SHEET NO. 4 OF 11 SHEETS	STA. TO STA.	8500	15-00013-00-PV	MCHENRY	95	27
PLOT DATE = 12/22/2016	DATE = 12/22/16	CHECKED -	REVISED -					CONTRACT NO. 61D31				
		DATE = 12/22/16	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

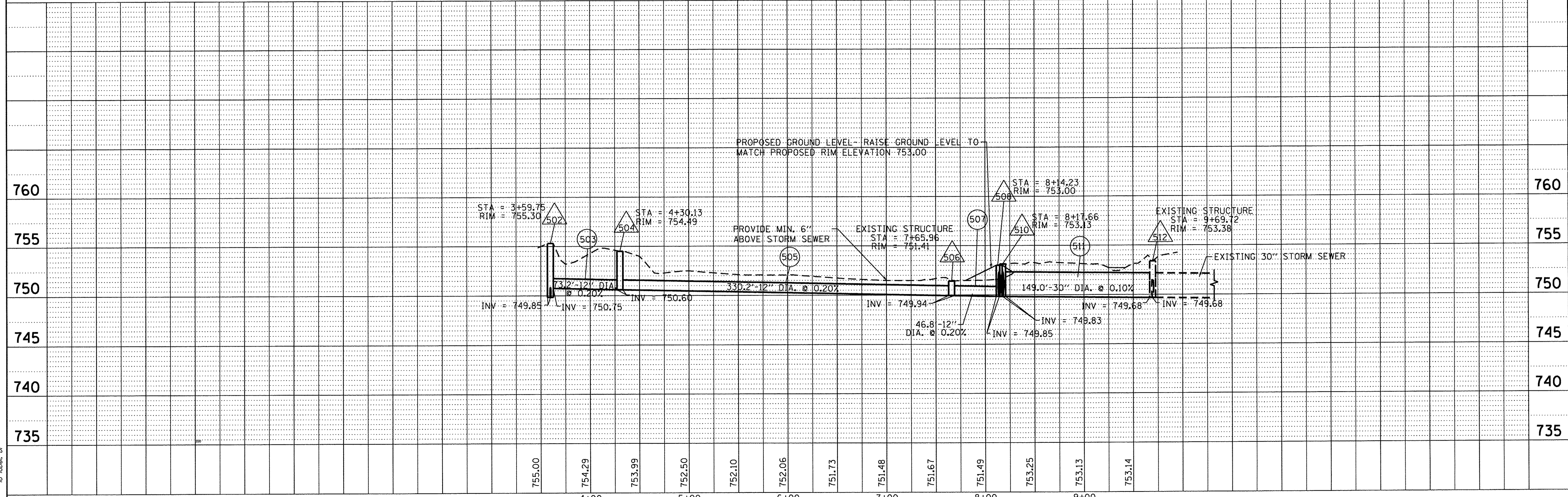
DATE	
BY	
PLAN	
SURVEYED PLOWED PLANNED NOTED	
NOTE BOOK NO.	
PAID FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED PLOWED PLANNED NOTED	
NOTE BOOK NO.	
STRUCTURE NOTATIONS CHRD	

HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350 - n - d a/n-05.dgn
 FILE NAME: ll_e/1.b - 1.dwg
 PLOT DRIVER: la_label.plt
 PEN TABLE:



LEGEND:
 [Hatched Box] AGGREGATE PATH REPLACEMENT
 (SEE CONSTRUCTION DETAILS
 FOR PATH COMPOSITION)

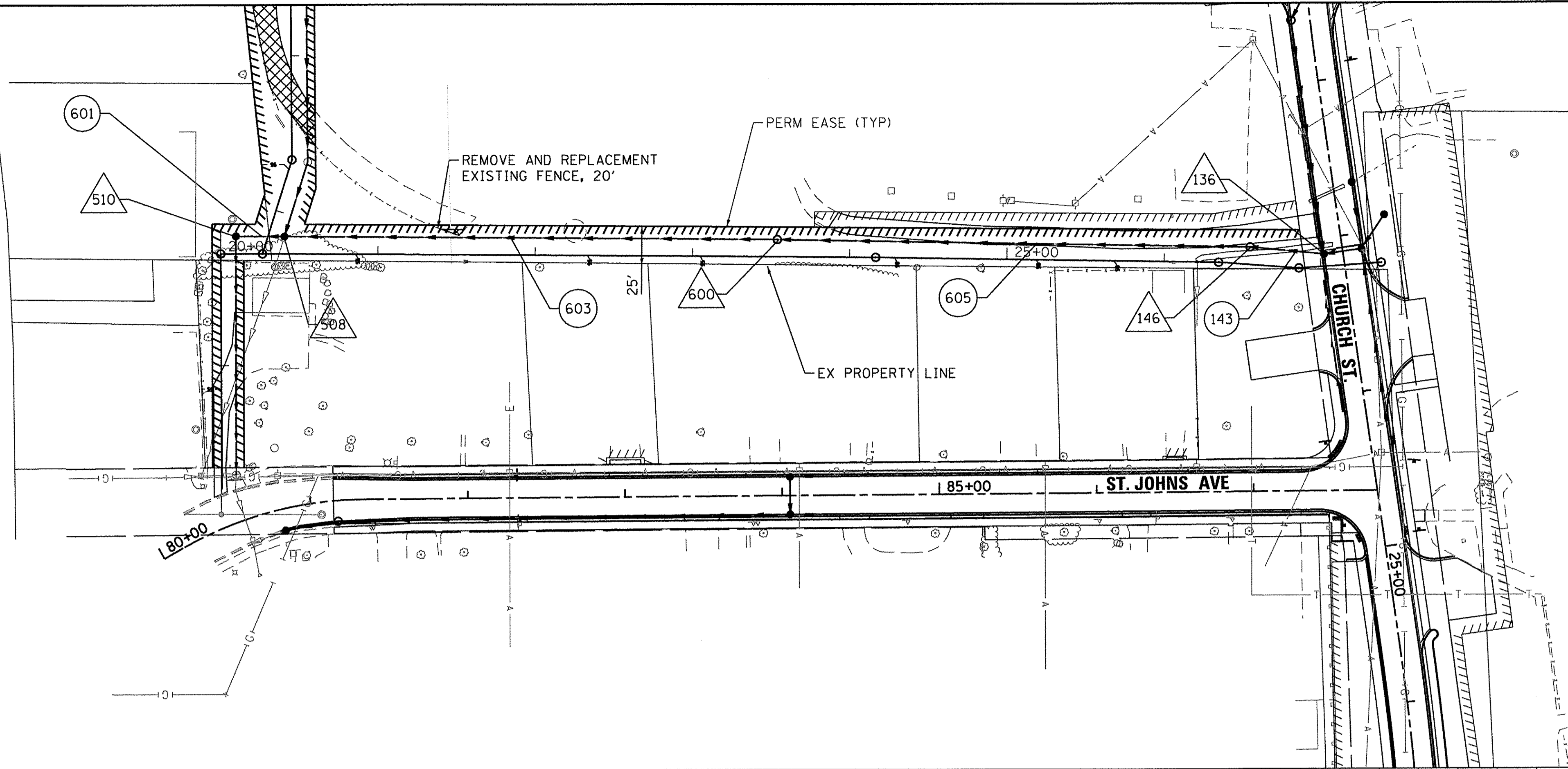


HRGreen # 184-001322	USER NAME = mzu210	DESIGNED - MZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN & PROFILE TIGER'S FIELD	SCALE: 1"=50'	SHEET NO. 5 OF 11 SHEETS	STA. TO STA.	MUN ST 8500	SECTION NO. 15-00013-00-PV	COUNTY MCHENRY	TOTAL SHEETS 95	SHEET NO. 28
	PLOT SCALE = 1"=50'	CHECKED -	REVISED -						CONTRACT NO. 61D31				
	PLOT DATE = 12/22/2016	DATE - 12/22/2016	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(B12)				

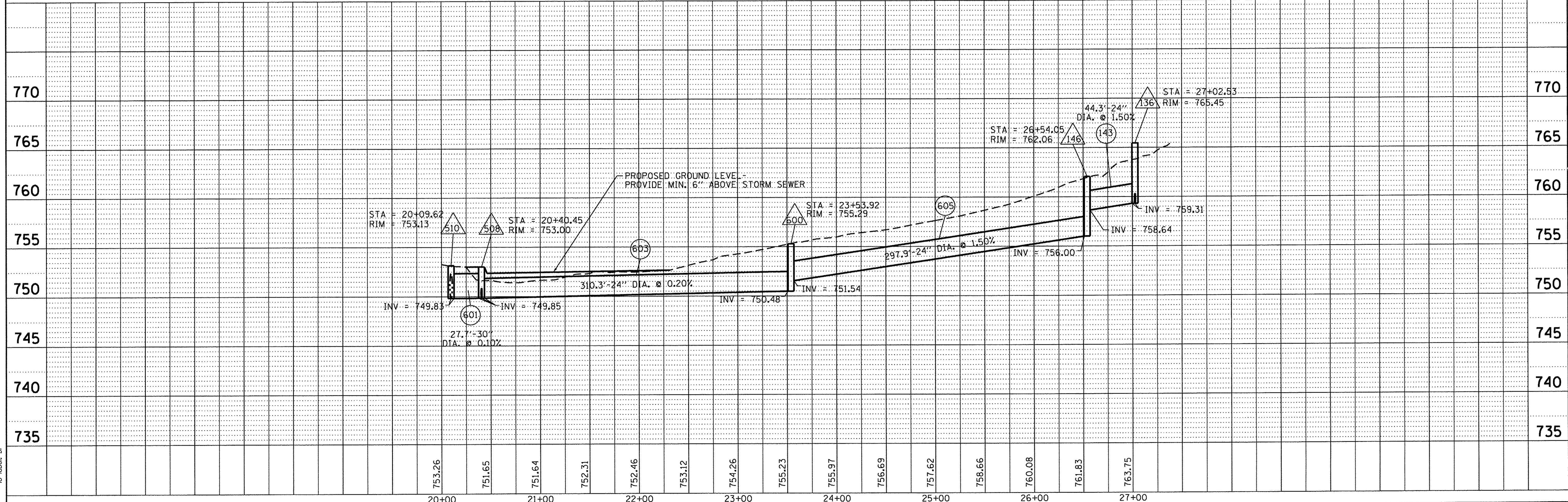
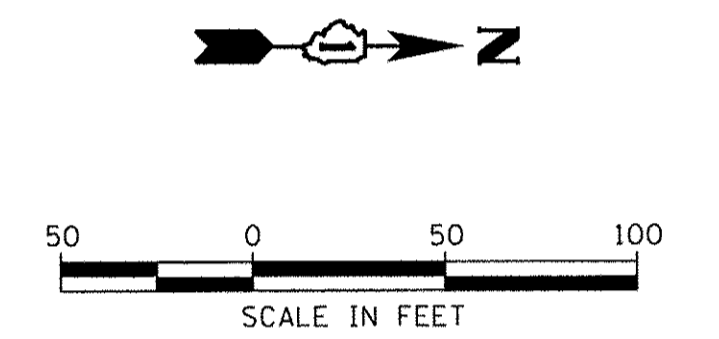
DATE	
BY	
SURVEYED	
ALIGNED	
NOTED	
PLANNED	
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
NO. _____	PAID FILE NAME

DATE	
BY	
SURVEYED	
ALIGNED	
NOTED	
PLANNED	
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
NO. _____	STRUCTURE NOTATION CHFD

HRG PROJECT NO.: 8650350
 HRG PROJ CONTACT: 8650350-h-a-01-06.dgn
 FILE NAME: 15-00013-00-PV-01.dwg
 PLOT DRIVER: plot_driver.plt
 PEN TABLE: to_label.tbl



LEGEND:
 AGGREGATE PATH REPLACEMENT
 (SEE CONSTRUCTION DETAILS FOR PATH COMPOSITION)

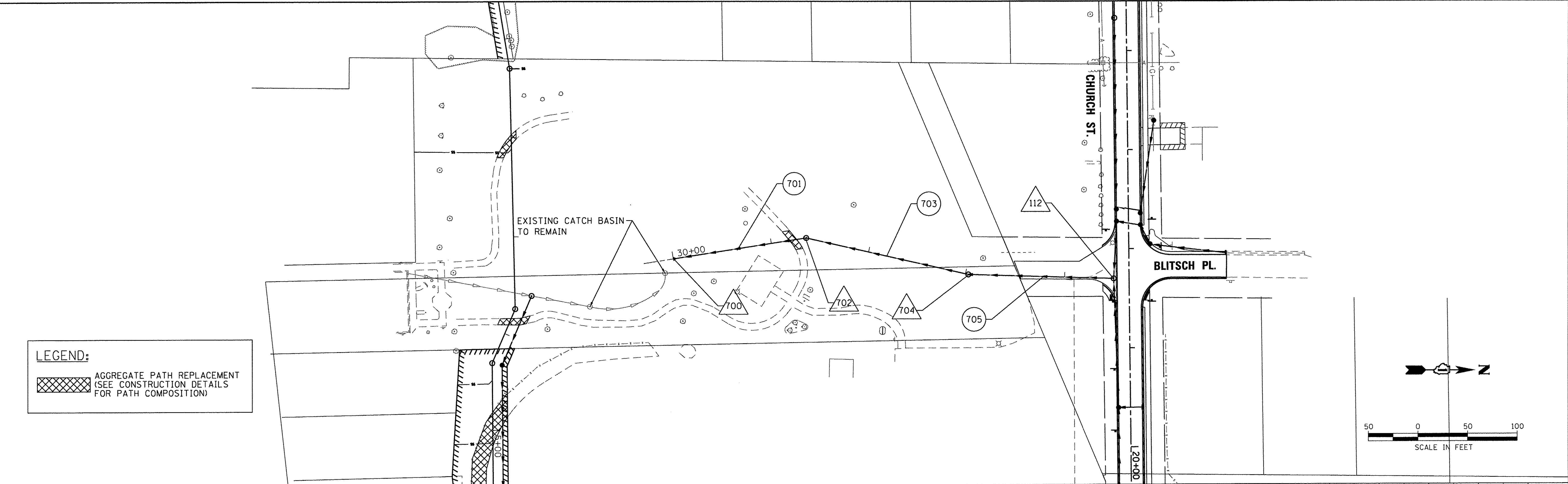


HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = mzuz21o	DESIGNED - MZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN & PROFILE TIGER'S FIELD		MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
	PLLOT SCALE = 1"=50'	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET NO. 6 OF 11 SHEETS	STA. TO STA.	8500	15-00013-00-PV	MCHENRY	95
	PLLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121		CONTRACT NO. 61D31		

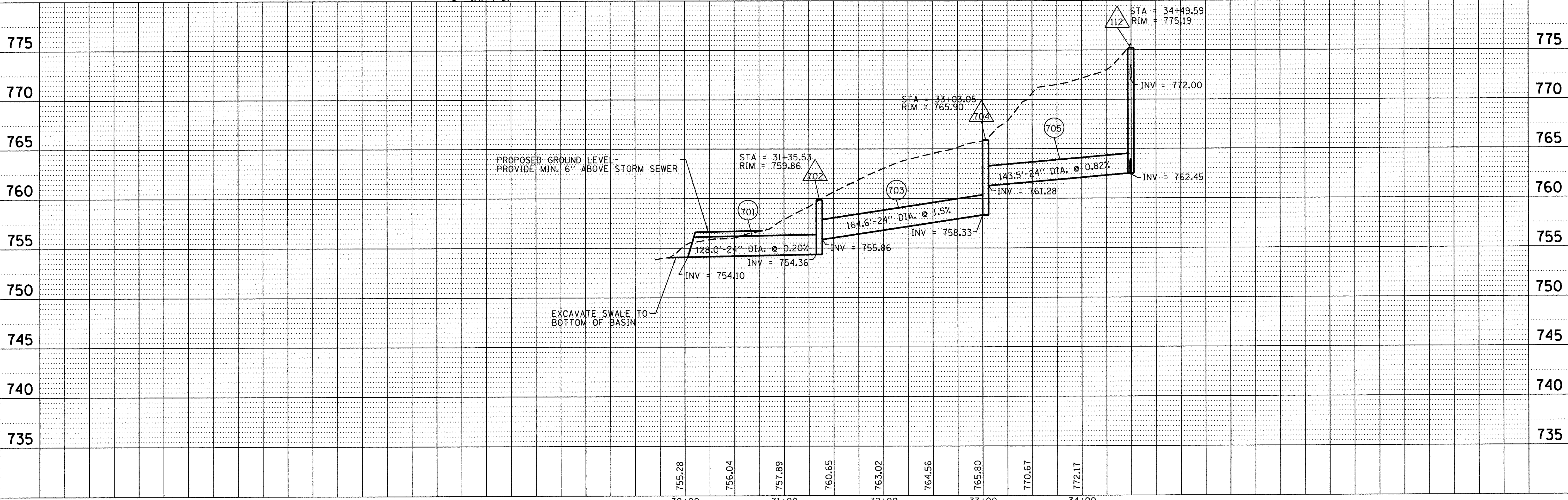
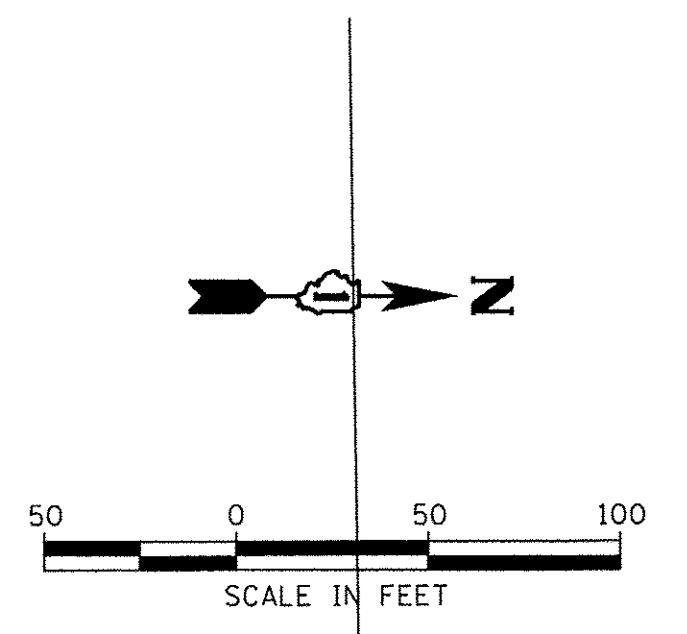
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	PLOTTED		
	NOTE BOOK		
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	NO.		
	NO.		
	NO.		
	NO.		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	NO.		
	NO.		
	NO.		
	NO.		
	NO.		

URS PROJECT NO.: 8660350
 URS FILE NAME: 8660350-15-0013-00-PV.dgn
 URS PLOT DRIVER: il_crf_b - i_crfg
 URS PLOT TABLE: to_label.bl



LEGEND:
 AGGREGATE PATH REPLACEMENT
 (SEE CONSTRUCTION DETAILS FOR PATH COMPOSITION)



HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = mzuzio	DESIGNED - MZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN & PROFILE RESCUE SQUAD PARK		MUN ST 8500	SECTION NO. 15-00013-00-PV	COUNTY MCHENRY	TOTAL SHEETS 95	SHEET NO. 30
	PLOT SCALE = 1"=50'	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET NO. 7 OF 11 SHEETS	STA. TO STA.	CONTRACT NO. 61D31			
PLOT DATE = 12/22/2016	DATE = 12/22/16	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(B12)					

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET (FT)	STRUCTURE TYPE	FRAME & GRATE	RIM ELEVATION	STORM SEWER INVERTS								PIPE UNDERDRAIN INVERTS			
						NORTH	NORTHWEST	WEST	SOUTHWEST	SOUTH	SOUTHEAST	EAST	NORTHEAST	NORTH	WEST	EAST	SOUTH
CHURCH STREET																	
100	13+50	21.7' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 8	797.75				793.25								
102	13+80	12.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	797.94		793.19			793.19							
104	13+77	12.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	797.97	793.15						793.15					
106	15+67	12.0' RT	MANHOLES, TYPE A, 4'- DIAMETER	TYPE 11	793.09			789.84				783.31					
108	17+60	12.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	780.86			777.61				774.67	778.61				
110	17+72	12.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	779.90	774.40		774.40				773.33					
112	18+30	15.6' RT	MANHOLES, TYPE A, 4'- DIAMETER;	TYPE 1, CL	775.19			772.00		762.45		762.45					
114	19+60	12.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	769.57	763.72		763.72				763.72					
116	20+83.5	12.0' RT	MANHOLES, TYPE A, 4'- DIAMETER	TYPE 11	767.94	764.32		764.32									
118	20+85.8	13.3' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	767.89	764.39				764.39							
120	19+60	12.0' LT	INLETS, TYPE A	TYPE 11	769.57					764.11							
122	18+05.2	97.8' LT	INLETS, TYPE A	TYPE 9	783.78				776.05								
124	17+95.8	21.6' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 9	777.80				774.55				774.55				
126	17+76	12.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	779.58			776.97		774.51			774.51				
128	17+64	12.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	780.54		776.97					774.51		778.29			
130	16+72	26.6' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 8	786.9					780.9							
132	20+95	26.7' LT	CATCH BASINS, TYPE B	TYPE 7	766.95					763.47							
134	21+60	12.0' RT	MANHOLES, TYPE A, 4'- DIAMETER	TYPE 1, CL	767.00		763.10					763.10					
136	23+10	12.0' RT	CATCH BASINS, TYPE A, 5'-DIAMETER	TYPE 11	765.45	760.79		761.95		759.31		761.95	763.2	763.20			
138	23+10	12.0' LT	CATCH BASINS, TYPE A, 5'-DIAMETER	TYPE 11	765.45		761.00	762.29		761.00		761.47			763.20		
140	22+67	12.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	765.69							762.69					
142	22+90.54	29.4' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 8	764.69					761.69							
144	23+24	12.0' RT	INLETS, TYPE A	TYPE 11	765.47			762.43							763.22		
146	22+98.7	57.9' RT	MANHOLES, TYPE A, 4'- DIAMETER	TYPE 1, OL	762.06	758.64				756.00							
200	24+19	12.0' LT	INLETS, TYPE A	TYPE 11	766.93			763.93									
202	28+00.14	33.4' RT	PIPE OUTLETS IN RETAINING WALL				757.90										
204	26+82	12.7' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	767.41					759.14		761.15					
206	27+51	34.4' LT	INLETS, TYPE A	TYPE 11	764.80				761.30								
208	36+34.5	50.0' RT	INLET TO BE ADJUSTED WITH NEW TYPE 5 FRAME, OPEN LID	TYPE 5, OL	755.53												
300	37+80.66	21.1' LT	CATCH BASIN TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	NEENAH R-3333-A													
302	38+68	21.1' LT	CATCH BASIN TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	NEENAH R-3333-A													
304	39+44	21.1' LT	CATCH BASIN TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	NEENAH R-3333-A													
306	40+26.55	21.2' LT	CATCH BASIN TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	NEENAH R-3333-A													
308	41+02.54	20.8' LT	CATCH BASIN TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	NEENAH R-3333-A													
310	41+83.52	20.9' LT	CATCH BASIN TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	NEENAH R-3333-A													
312	42+69.34	20.8' LT	CATCH BASIN TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	NEENAH R-3333-A													
314	44+45.54	20.9' LT	CATCH BASIN TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	NEENAH R-3333-A													
316	45+68.57	20.6' LT	CATCH BASIN TO BE ADJUSTED WITH SPECIAL FRAME AND GRATE	NEENAH R-3333-A													

DATE	BY	SURVEYED	ALIGNED	CHECKED
PLAN	NOTE BOOK NO.	RT. OF WAY CHECKED	PAID FILE NAME	

DATE	BY	SURVEYED	NOTED	CHECKED
PROFILE	NOTE BOOK NO.	STRUCTURE NOTATIONS	CHRD	

HRG PROJECT NO: 8660350
 HRG PROJ CONTACT: 8660350-h -d am- chad- .dgn
 FILE NAME: 8660350-h -d am- chad- .dgn
 PLOT DRIVER: ll_ cfb . / cfb
 PEN TABLE: to label. b1



USER NAME = mzuzzio	DESIGNED - MZ	REVISED -
PLOT SCALE = NTS	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE STRUCTURE SCHEDULE
CHURCH STREET & ST. JOHN'S AVENUE**

SCALE: NTS SHEET NO. 8 OF 11 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	31
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET (FT)	STRUCTURE TYPE	FRAME & GRATE	RIM ELEVATION	STORM SEWER INVERTS								PIPE UNDERDRAIN INVERTS			
						NORTH	NORTHWEST	WEST	SOUTHWEST	SOUTH	SOUTHEAST	EAST	NORTHEAST	NORTH	WEST	EAST	SOUTH
ST JOHN'S AVENUE																	
402	80+80.7	13.7' RT	INLETS, TYPE B	TYPE 11	753.68	750.68								EX-12"-750.68			
404	81+16.5	13.2' RT	MANHOLES, TYPE A, 4'- DIAMETER	TYPE 1, CL	754.02	750.74								750.74			
406	84+05	12.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	756.15	753.05			753.05					753.05			
408	84+17	12.0' RT	INLETS, TYPE A	TYPE 11	756.29									753.29			
410	84+05	12.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 11	756.15	753.15								753.15			
412	84+17	12.0' LT	INLETS, TYPE A	TYPE 11	756.29									753.20			
OFF SITE																	
502	3+60.29	16.8' LT	MANHOLES, TYPE A, 4'- DIAMETER	TYPE 1, CL	755.30				EX-749.81					750.75		EX-749.81	
504	4+30.13	10.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER	TYPE 8	754.49			750.60						750.60			
506	7+65.96	10.1' LT	EXISTING STRUCTURE	EX-TYPE1,OL	751.41				749.94					749.94			
508	8+14.23	10.1' LT	CATCH BASINS, TYPE B	TYPE 7	753.00	749.85								749.85		749.85	
510	8+17.66	9.6' LT	CATCH BASINS, TYPE B	TYPE 7	753.13	749.83								749.83			
512	9+69.72	9.6' LT	EXISTING CATCH BASIN, TYPE B	EX-TYPE 7	EX-753.38				749.68					EX-24"-749.68		EX-30"-749.68	
600	23+53.92	10.9' LT	MANHOLES, TYPE A, 4'- DIAMETER	TYPE 1, OL	755.29	751.54								750.48			
700	30+00	0.0' RT	PRC FLARED END SECTION, 24"													754.10	
702	31+35.53	0.0' RT	MANHOLES, TYPE A, 4'- DIAMETER	TYPE 1, CL	759.86									754.36		755.86	
704	33+03.05	0.0' RT	MANHOLES, TYPE A, 4'- DIAMETER	TYPE 1, CL	765.90	761.28								758.33			

DATE	
BY	
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NOTE BOOK NO.	
CHECKED	
ALIGNMENT	
PLANNING	
DRAWN	
CHECKED	
FILE NAME	

DATE	
BY	
REVISIONS	
PROFILE	
NOTE BOOK NO.	
CHECKED	
STRUCTURE	
NOTES	
PLANNING	
DRAWN	
CHECKED	
FILE NAME	

HRG PROJECT NO.: 86160350
 HRG PROJ CONTACT: 86160350-h-d a/m- ched- .dgn
 FILE NAME: 15_dr.dwg
 PLOT DRIVER: lplplotter
 PEN TABLE: to label.bl

 HRGreen.com <small>Illinois Professional Design Firm #184-001322</small>	USER NAME = mzuzzio	DESIGNED - MZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE STRUCTURE SCHEDULE CHURCH STREET & ST. JOHN'S AVENUE	MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = NTS	DRAWN - DMS	REVISED -			8500	15-00013-00-PV	MCHENRY	95	32
	PLOT DATE = 12/22/2016	CHECKED -	REVISED -			CONTRACT NO. 61D31				
					SCALE: NTS	SHEET NO. 9 OF 11 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812

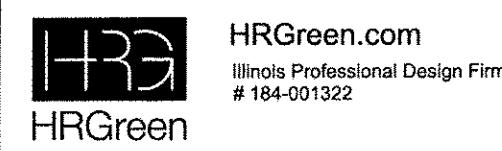
DRAINAGE PIPE SCHEDULE

PIPE NO.	FROM STRUCT.	TO STRUCT.	CLASS	TYPE	SIZE, DIA. (IN)	LENGTH (FT)	SLOPE (%)	TBF (CY)
CHURCH STREET								
101	100	102	A	TYPE 2	12	29.5	0.20%	10.1
103	102	104	A	TYPE 2	15	22.2	0.20%	5.3
105	104	106	A	TYPE 2	15	187.0	1.77%	145.7
107	106	108	A	TYPE 2	15	190.0	3.00%	239.3
109	108	110	A	TYPE 2	15	9.0	3.00%	6.8
111	110	112	A	TYPE 2	18	54.8	2.00%	14.1
113	112	114	A	TYPE 3	18	127.0	1.00%	197.9
115	114	116	A	TYPE 2	18	120.8	0.50%	82.7
117	118	116	A	TYPE 2	18	22.4	0.31%	6.3
119		118	A	TYPE 2	18	10.0	0.50%	4.1
121	120	114	A	TYPE 2	12	21.0	1.85%	17.4
123	122	124	A	TYPE 2	15	74.8	2.00%	48.1
125	124	126	A	TYPE 2	15	18.8	0.20%	13.4
127	128	126	A	TYPE 2	15	9.2	3.00%	6.9
129	130	128	A	TYPE 2	15	91.2	4.00%	108.6
131	132	134	A	TYPE 2	18	73.5	0.50%	13.3
133	134	136	A	TYPE 2	18	147.4	0.78%	52.8
135	138	136	A	TYPE 2	15	21.0	1.00%	7.9
137	138	137	A	TYPE 2	12	23.7	0.50%	10.6
139	140	138	A	TYPE 2	12	40.0	1.00%	13.7
141	200	138	A	TYPE 2	12	107.1	2.30%	36.6
143	146	136	A	TYPE 2	24	44.3	1.50%	0.0
145	144	136	A	TYPE 2	12	12.0	4.00%	4.4
147	126	110	A	TYPE 2	15	21.3	0.50%	15.2
203	206	204	A	TYPE 2	12	71.1	0.21%	10.9
205	204	202	A	TYPE 2	12	124.2	1.00%	27.9
ST JOHNS AVENUE								
403	404	402	A	TYPE 1	12	30.7	0.20%	4.1
405	406	404	A	TYPE 2	12	284.6	0.81%	49.9
407	408	406	A	TYPE 2	12	10.0	2.90%	2.6
409	410	408	A	TYPE 2	12	21.0	0.50%	5.4
411	412	410	A	TYPE 2	12	10.0	0.50%	2.6

PLAN	DATE
SURVEYED	BY
PLOTTED	
ALIGNMENT CHECKED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
FILE NAME	

PROFILE	DATE
SURVEYED	BY
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
FILE NAME	

HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350- h-d am- ched- / e .dgn
 FILE NAME: /c. of.c.d. /1 c1g
 PLOT DRIVER: /o robot.dl
 PEN TABLE



USER NAME = muzzio	DESIGNED - MZ	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PIPE SCHEDULE
 CHURCH STREET & ST. JOHN'S AVENUE**

SCALE: NTS SHEET NO. 10 OF 11 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	33
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

DRAINAGE PIPE SCHEDULE

PIPE NO.	FROM STRUCT.	TO STRUCT.	CLASS	TYPE	SIZE, DIA. (IN)	LENGTH (FT)	SLOPE (%)	TBF (CY)
OFF SITE								
503	502	504	A	TYPE 2	12	72.6	0.20%	0.0
505	504	506	A	TYPE 1	12	330.2	0.20%	0.0
507	506	508	A	TYPE 1	12	46.8	0.20%	0.0
511	510	400	A	TYPE 1	30	149.0	0.10%	10.3
601	510	508	A	TYPE 1	30	27.7	0.10%	0.0
603	508	600	A	TYPE 1	24	310.3	0.20%	0.0
605	600	146	A	TYPE 1	24	297.9	1.85%	84.3
701	700	702	A	TYPE 1	24	128.0	0.20%	0.0
703	702	704	A	TYPE 2	24	164.6	0.37%	0.0
705	704	112	A	TYPE 2	24	143.5	0.82%	188.8

PLAN	DATE
SURVEYED _____ ALIGNED _____ PT. OF WAY CHECKED _____ CADD FILE NAME _____	
NOTE BOOK NO. _____	

PROFILE	DATE
SURVEYED _____ PLOTTED _____ BY _____	
NOTE BOOK NO. _____	

HRC PROJECT NO.: 8650350
 HRC PROJ. CONTACT: 8650350-h-a-ain-ched-1-e-dgn
 FILE NAME: il.-cf.b.-1-cfg
 PLOT DRIVER: to-label, bi
 PEN TABLE:



HRGreen.com
 Illinois Professional Design Firm
 # 184-001322

USER NAME = mzuz210	DESIGNED - MZ	REVISED -
DRAWN - DMS	CHECKED -	REVISED -
PLOT SCALE = NTS	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PIPE SCHEDULE
CHURCH STREET & ST. JOHN'S AVENUE

SCALE: NTS SHEET NO. 11 OF 11 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	34
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D31	

M-4003(812)

DATE	
BY	
PLAN	SURVEYED
	NOTED
	PLOTTED
	CHECKED
	ART. OF WAY
	CHECKED
	PAID FILE NAME
	NO.

TERMINATE WITH BELL AND PIPE PLUG, PLUG SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF SANITARY SEWER

NOTE:
FIELD VERIFY EXISTING SEPTIC SYSTEM INVERTS, DISTANCE, AND SLOPE TO VERIFY PROPOSED SANITARY SEWER DEPTH IS APPROPRIATE TO SERVE THE EXISTING HOMES. ADJUST SANITARY SEWER AND SERVICE INVERTS AS NEEDED.

ACTUAL LOCATION OF SANITARY SERVICE SHALL BE COORDINATED BY CONTRACTOR/ENGINEER WITH PROPERTY OWNER PRIOR TO CONSTRUCTION.

REMOVE & REPLACE EXISTING FENCE PAID FOR AS REMOVE FENCE (SPECIAL)

REMOVE AND REPLACE EXISTING FENCE, 36'

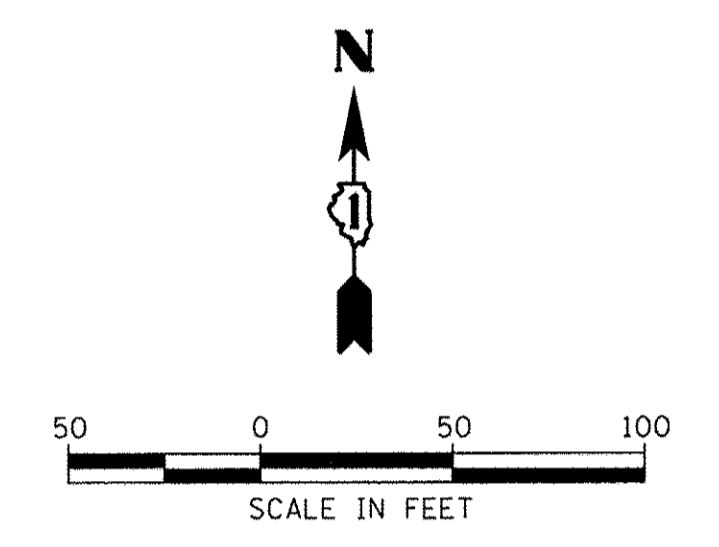
EXISTING SEPTIC LID TO REMAIN

REMOVE AND REPLACE EXISTING FENCE, 41.5'

REMOVE AND REPLACE EXISTING FENCE, 20.5'

MAINTAIN EX 8" PVC

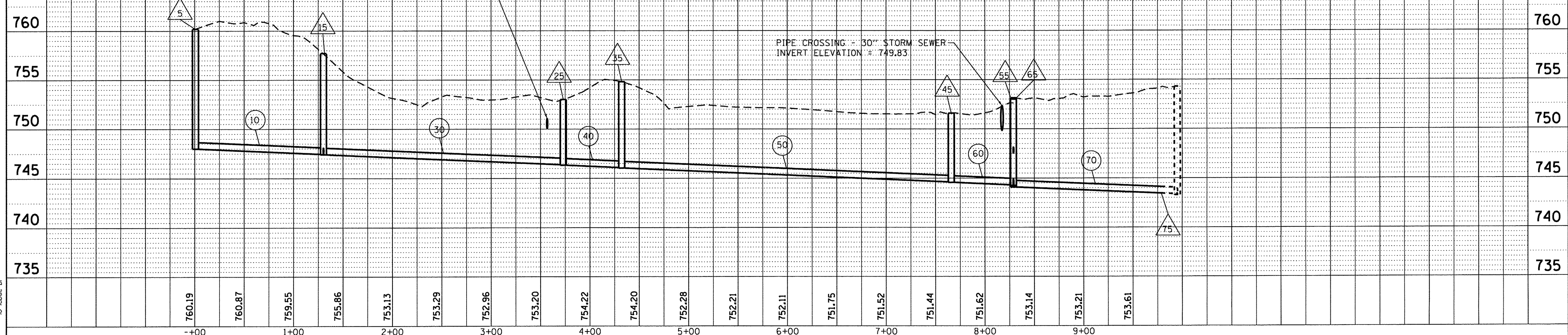
EXISTING INVERT ELEVATION REQUIRES FIELD VERIFICATION



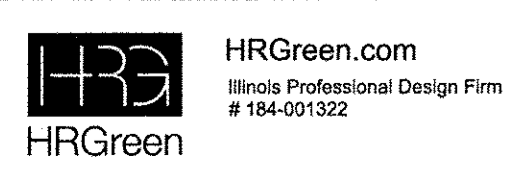
DATE	
BY	
PROFILE	SURVEYED
	NOTED
	PLOTTED
	CHECKED
	STRUCTURE NOTATIONS CHRD
	NO.

PIPE CROSSING - 12" STORM SEWER
INVERT ELEVATION = 750.07

PIPE CROSSING - 30" STORM SEWER
INVERT ELEVATION = 749.83



HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350 - h - am-01.dgn
 FILE NAME: 15_071.b - i c.f.g
 PLOT DRIVER: to label.bl



USER NAME = m2uz21o	DESIGNED - MZ	REVISED -
PLOT SCALE = 1"=50'	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SANITARY SEWER PLAN & PROFILE
TIGER'S FIELD

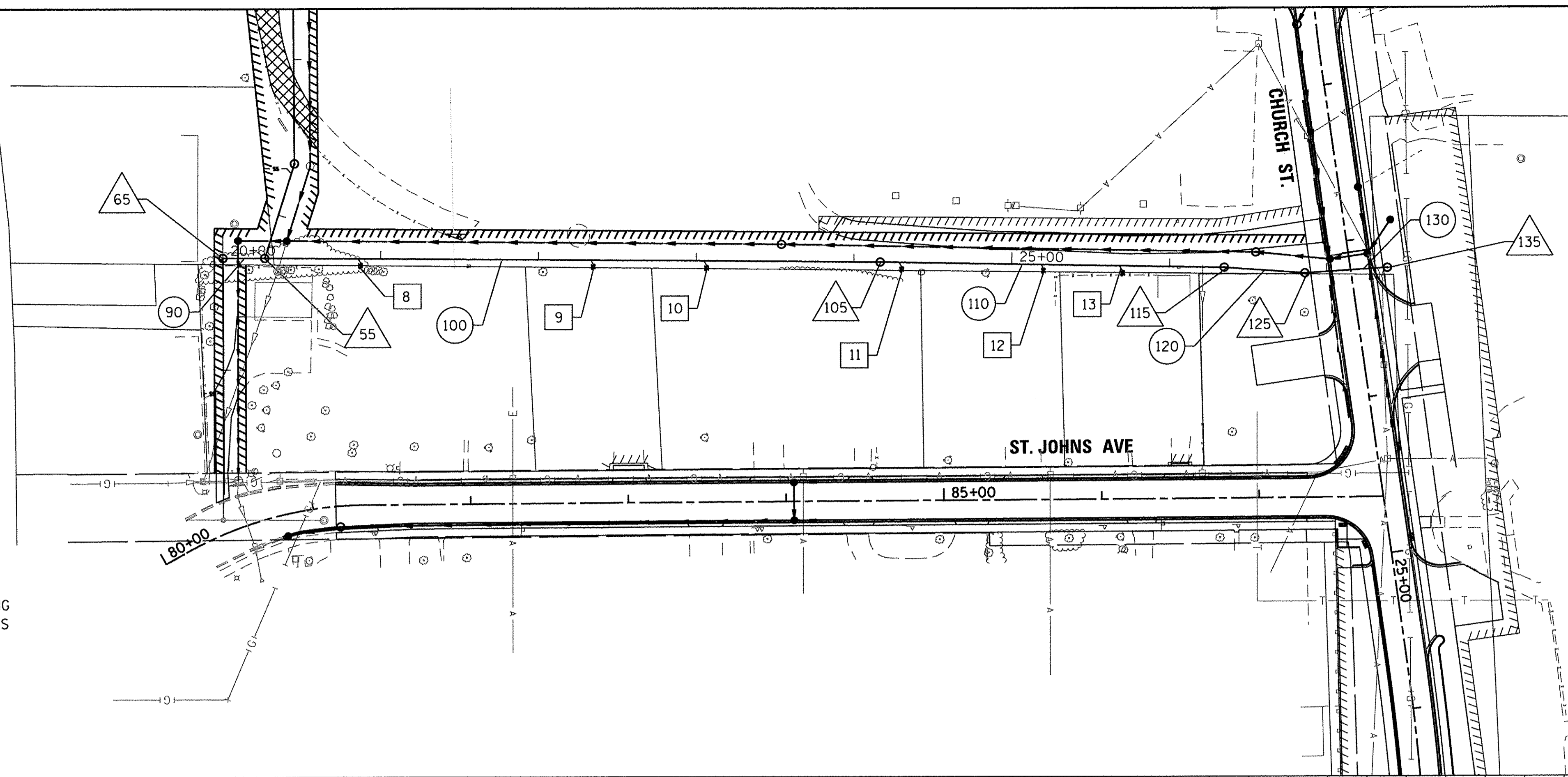
SCALE: 1"=50' SHEET NO. 1 OF 7 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	35
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

BY	DATE
SURVEYED	
PLOTTED	
CHECKED	
ART. OF WAY CHECKED	
PAID FILE NAME	
PLAN	
NOTE BOOK	
NO.	

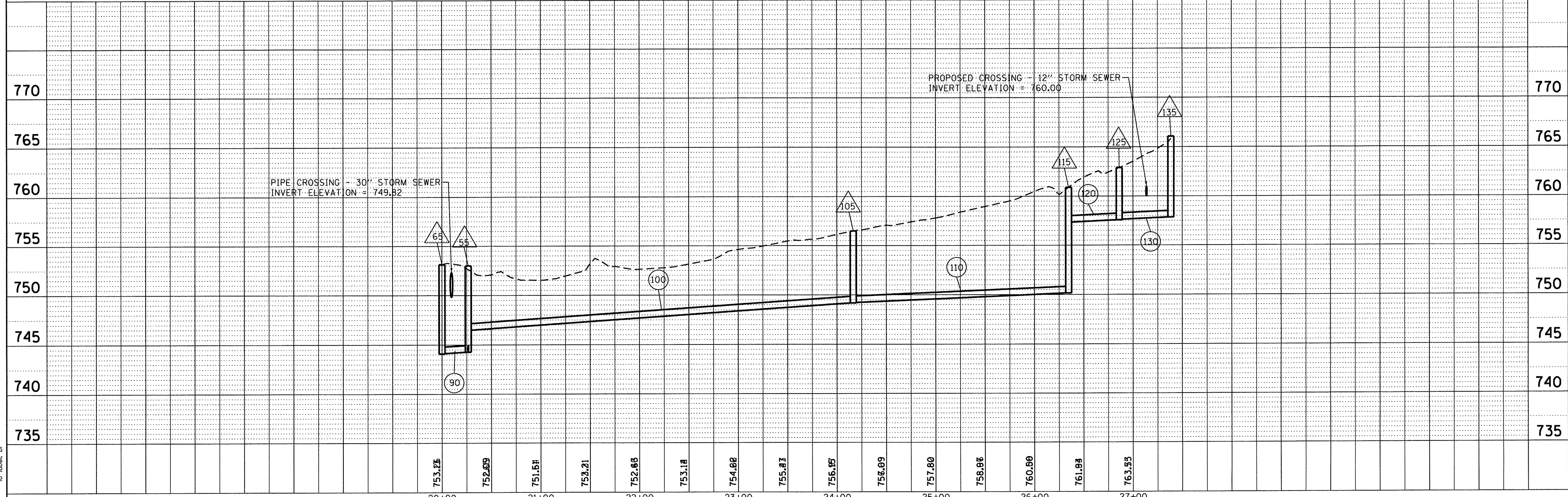
BY	DATE
SURVEYED	
PLOTTED	
CHECKED	
STRUCTURE NOTATION CIRCD	
PROFILE	
NOTE BOOK	
NO.	

HRG PROJECT NO.: 8660360
 HRG PLOTT CONTACT: 8660360-h - 01-02.dgn
 FILE NAME: 8660360-h - 01-02.dgn
 PLOT DRIVER: il_crl_b . i cfg
 PEN TABLE: to_label.tbl



NOTE:
 FIELD VERIFY EXISTING SEPTIC SYSTEM INVERTS,
 DISTANCE, AND SLOPE TO VERIFY PROPOSED SANITARY
 SEWER DEPTH IS APPROPRIATE TO SERVE THE EXISTING
 HOMES. ADJUST SANITARY SEWER AND SERVICE INVERTS
 AS NEEDED.

ACTUAL LOCATION OF SANITARY SERVICE
 SHALL BE COORDINATED BY CONTRACTOR/ENGINEER
 WITH PROPERTY OWNER PRIOR TO CONSTRUCTION.

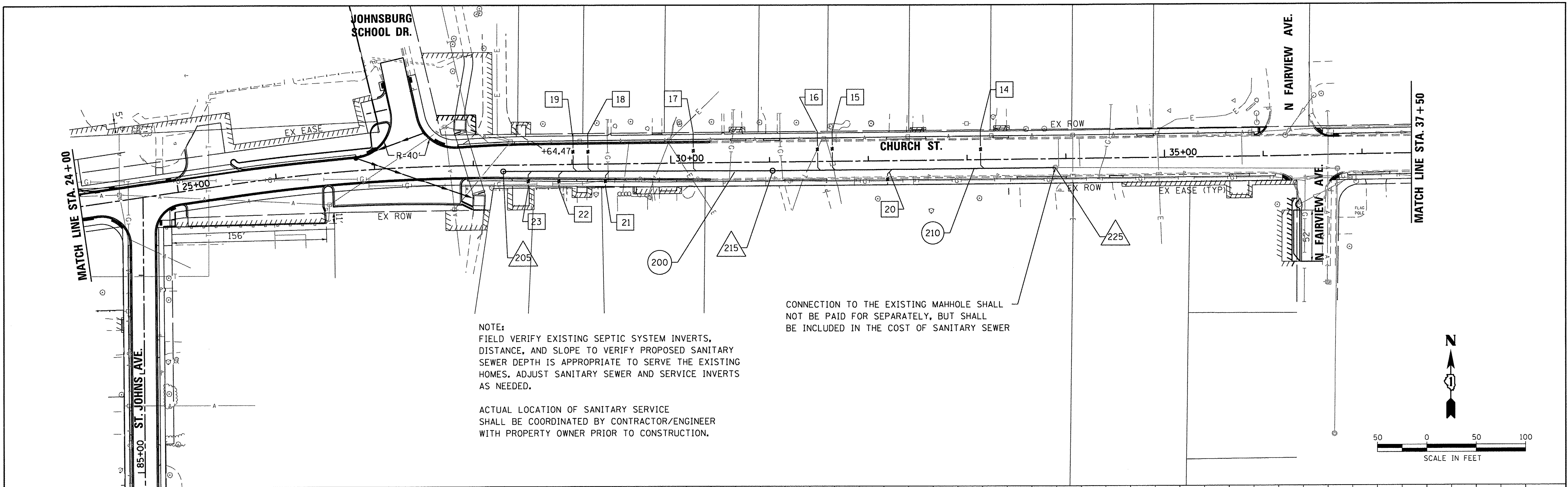


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PLOT SCALE = 1"=50'	DRAWN - DMS	REVISED -		SCALE: 1"=50'	SHEET NO. 2 OF 7 SHEETS	STA.	8500	15-00013-00-PV	MCHENRY	95	36
PLOT DATE = 12/22/2016	CHECKED -	REVISED -				TO STA.	CONTRACT NO. 61D31				
	DATE - 12/22/16	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

PLAN	DATE
SURVEYED	
ALIGNED	
RT. OF WAY CHECKED	
ADD FILE NAME	
NO.	

PROFILE	DATE
SURVEYED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS CHKD	
NO.	

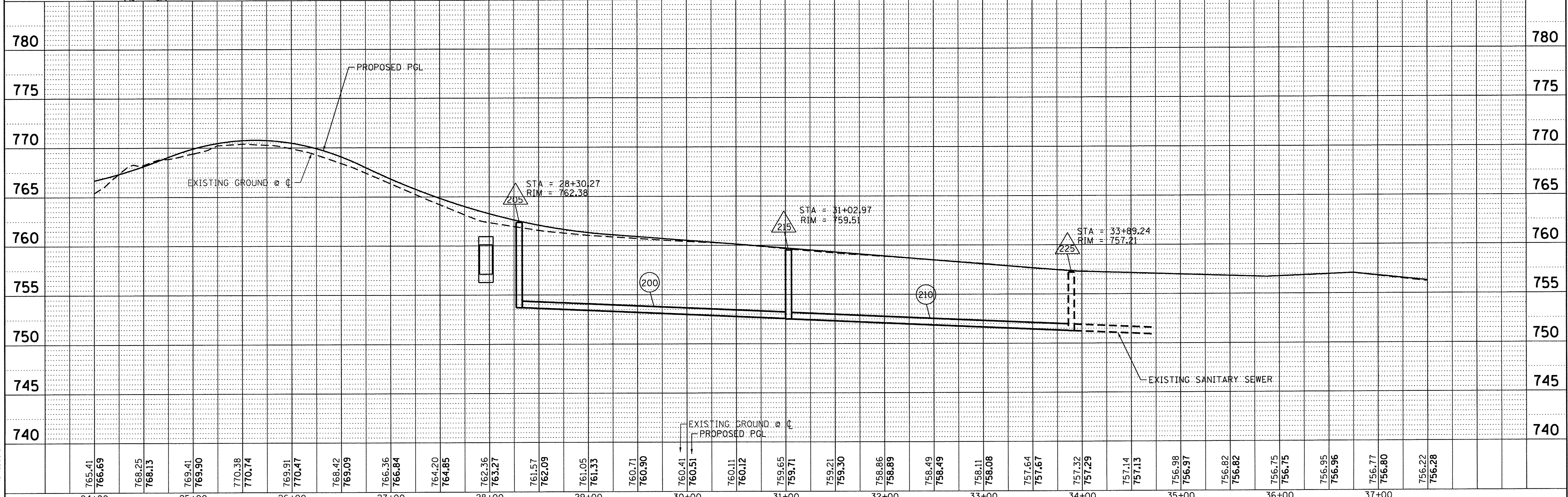
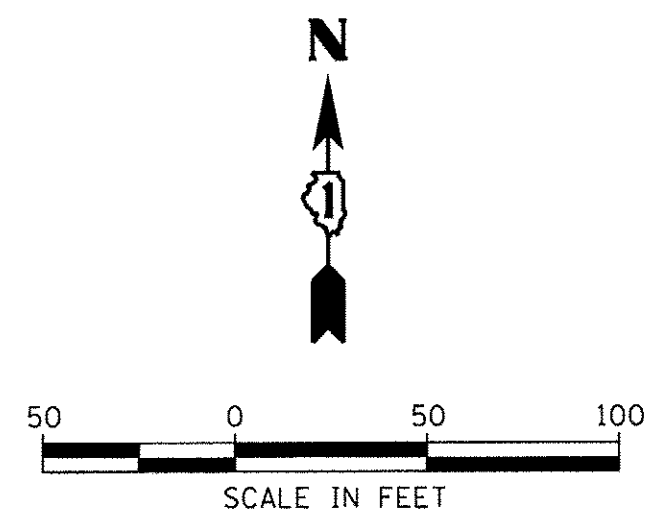
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 HRG PROJ. CONTACT: 8650350-h - 01-03.dgn
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 PLOT DRIVER: ilabel.pl
 PEN TABLE:



NOTE:
 FIELD VERIFY EXISTING SEPTIC SYSTEM INVERTS, DISTANCE, AND SLOPE TO VERIFY PROPOSED SANITARY SEWER DEPTH IS APPROPRIATE TO SERVE THE EXISTING HOMES. ADJUST SANITARY SEWER AND SERVICE INVERTS AS NEEDED.

ACTUAL LOCATION OF SANITARY SERVICE SHALL BE COORDINATED BY CONTRACTOR/ENGINEER WITH PROPERTY OWNER PRIOR TO CONSTRUCTION.

CONNECTION TO THE EXISTING MAHOLE SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF SANITARY SEWER



765.41	766.69	768.25	768.13	769.41	769.90	770.38	770.74	769.91	770.47	768.42	769.09	766.36	766.84	764.20	764.85	762.36	763.27	761.57	762.09	761.05	761.33	760.71	760.90	760.41	760.51	760.11	760.12	759.65	759.71	759.21	759.30	758.86	758.89	758.49	758.49	758.11	758.08	757.64	757.67	757.32	757.29	757.14	757.13	756.98	756.97	756.82	756.82	756.75	756.75	756.95	756.96	756.77	756.80	756.22	756.28
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USER NAME = muzzio	DESIGNED - MZ	REVISED -
PLOT SCALE = 1"=50'	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

DESIGNED - MZ	REVISED -
DRAWN - DMS	REVISED -
CHECKED -	REVISED -
DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SANITARY SEWER PLAN & PROFILE
 CHURCH STREET**

SCALE: 1"=50' SHEET NO. 3 OF 7 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	37
CONTRACT NO. 61031				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812				

SANITARY PIPE SCHEDULE

PIPE NO.	FROM STRUCT.	TO STRUCT.	TYPE	SIZE, DIA. (IN)	LENGTH (FT)	SLOPE (%)	TBF (CY)
PR-SAN-1							
10	5	15	SANITARY SEWER	8	127	0.42%	0.0
20	15		SANITARY SEWER	8	10'-STUB	0.42%	0.0
30	15	25	SANITARY SEWER	8	243	0.42%	0.0
40	25	35	SANITARY SEWER	8	59	0.42%	0.1
50	35	45	SANITARY SEWER	8	334	0.42%	0.2
60	45	55	SANITARY SEWER	8	63	0.42%	0.3
PR-SAN-2							
70	45	55	SANITARY SEWER	8	151	0.42%	121.8
80	55	65	EXT SANITARY SEWER	8	15	0.42%	0.0
PR-SAN-3							
90	35	45	SANITARY SEWER	8	27	0.42%	0.0
100	35	105	SANITARY SEWER	8	390	0.69%	0.0
110	105	115	SANITARY SEWER	8	218	0.42%	0.0
120	115	125	SANITARY SEWER	8	52	0.42%	0.0
130	125	135	SANITARY SEWER	8	52	0.42%	25.4
PR-CHURCH							
200	205	215	SANITARY SEWER	8	273	0.42%	238.4
210	215	225	SANITARY SEWER	8	287	0.42%	191.8

SANITARY STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET (FT)	STRUCTURE TYPE	FRAME & GRATE	RIM ELEVATION	SANITARY SEWER INVERTS					
						NORTH	NORTHWEST	WEST	SOUTHWEST	SOUTH	SOUTHEAST
PR-SAN-1 (WEST TO EAST)											
5	0+00.69	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	760.19						748.00
15	1+30.26	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	757.69	474.46		747.46			747.41
25	3+73.10	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	753.00			746.39		746.34	
35	4+32.21	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	754.82		746.09				746.04
45	7+65.96	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	751.59			744.63		744.58	
55	8+28.9	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER - DROP	TYPE 1, CL	753.00	746.50	744.31			744.26	
PR-SAN-2 (WEST TO EAST)											
65	8+28.9	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	753.13	744.14					744.09
75	9+78.59	0.5' RT	EXISTING STUB END					743.32			
85	9+94.9	0.0' RT	EXISTING MANHOLES, TYPE A, SANITARY, 4'-DIAMETER TO REMAIN	EX	754.30	EX-743.39		EX-743.39		EX-743.29	
PR-SAN-3 (SOUTH TO NORTH)											
105	24+16.57	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	756.48	749.19				749.14	
115	26+34.62	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER - DROP	TYPE 1, CL	760.91	757.36				750.11	
125	26+86.08	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	762.90	757.63				757.58	
135	27+38.43	0.0' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	766.08					757.85	
PR-CHURCH											
205	28+30.27	6.3' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	762.38						753.70
215	31+02.97	8.9' RT	MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER	TYPE 1, CL	759.51			752.55			752.50
225	33+89.24	9.0' RT	EXISTING MAHNOLES, TYPE A, SANITARY, 4'-DIAMETER TO REMAIN	EX	EX 757.21			EX 751.29			EX 751.26

PLAN	SURVEYED	DATE
NOTE BOOK NO.	ALIGNED	
	PLANNED	
	CONTRACT CHECKED	
	BY	
	DATE	
	PAID FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	CHECKED	
	BY	
	DATE	
	STRUCTURE NOTATION CHRD	

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PLOT SCALE = NTS	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SANITARY STRUCTURE & PIPE SCHEDULE
CHURCH STREET & ST. JOHN'S AVENUE**

SCALE: NTS SHEET NO. 4 OF 7 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	38
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(B12)				

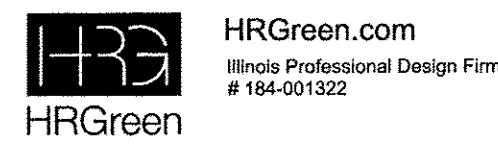
SANITARY SERVICE PIPE SCHEDULE

SERVICE NO.	BETWEEN STRUCT.	AND STRUCT.	TYPE	SIZE, DIA. (IN)	LENGTH (FT)	SLOPE (%)	TBF (CY)
PR-SAN-1							
1	5	15	SANITARY SEWER SERVICE SHORT	4	5	1.00%	
2	15	25	SANITARY SEWER SERVICE SHORT	4	98	1.00%	
3	35	45	SANITARY SEWER SERVICE SHORT	4	35	1.00%	
4	35	45	SANITARY SEWER SERVICE SHORT	4	39	1.00%	
5	35	45	SANITARY SEWER SERVICE SHORT	4	30	1.00%	
6	45	55	SANITARY SEWER SERVICE SHORT	4	19	1.00%	
PR-SAN-2							
7	65	75	SANITARY SEWER SERVICE SHORT	4	13	1.00%	
PR-SAN-3							
8	55	105	SANITARY SEWER SERVICE SHORT	4	6	1.00%	
9	55	105	SANITARY SEWER SERVICE SHORT	4	6	1.00%	
10	55	105	SANITARY SEWER SERVICE SHORT	4	6	1.00%	
11	105	115	SANITARY SEWER SERVICE SHORT	4	6	1.00%	
12	105	115	SANITARY SEWER SERVICE SHORT	4	5	1.00%	
13	105	115	SANITARY SEWER SERVICE SHORT	4	5	1.00%	
PR-CHURCH							
14	215	225	SANITARY SEWER SERVICE LONG	4	40	1.00%	12.0
15	215	225	SANITARY SEWER SERVICE LONG	4	41	1.00%	13.8
16	215	225	SANITARY SEWER SERVICE LONG	4	41	1.00%	13.8
17	205	215	SANITARY SEWER SERVICE LONG	4	40	1.00%	14.2
18	205	215	SANITARY SEWER SERVICE LONG	4	39	1.00%	23.8
19	205	215	SANITARY SEWER SERVICE LONG	4	39	1.00%	23.8
20	215	225	SANITARY SEWER SERVICE SHORT	4	15	1.00%	4.8
21	205	215	SANITARY SEWER SERVICE SHORT	4	16	1.00%	9.8
22	205	215	SANITARY SEWER SERVICE SHORT	4	17	1.00%	10.4
23	205	215	SANITARY SEWER SERVICE SHORT	4	17	1.00%	10.4

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

DATE	BY	DATE	BY
PROFILE	DATE	BY	DATE
NOTE BOOK NO.			
SURVEYED _____ GRADES CHECKED _____ B.M. NOTED _____ STRUCTURE NOTATIONS CRD _____			

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 PEN TABLE: to label. bl



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	DRAWN - DMS	REVISED -
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PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SANITARY STRUCTURE & PIPE SCHEDULE
CHURCH STREET & ST. JOHN'S AVENUE

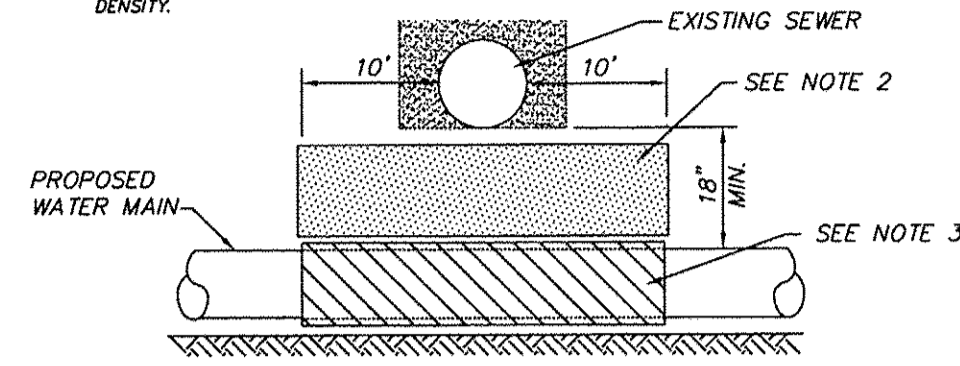
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MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	39
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812				

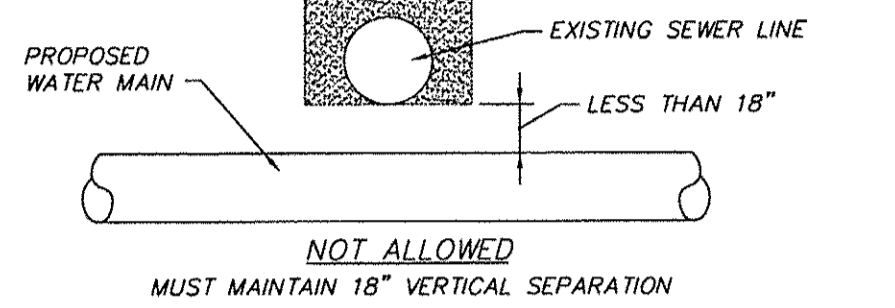
DATE	
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PLAN	
SURVEYED	
PLOTTED	
CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NO.	

PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM SEPARATION.

- NOTES:
1. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 10 FEET ON EITHER SIDE OF SEWER LINE.
 2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
 3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.
 4. CLASS IV MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DENSITY.

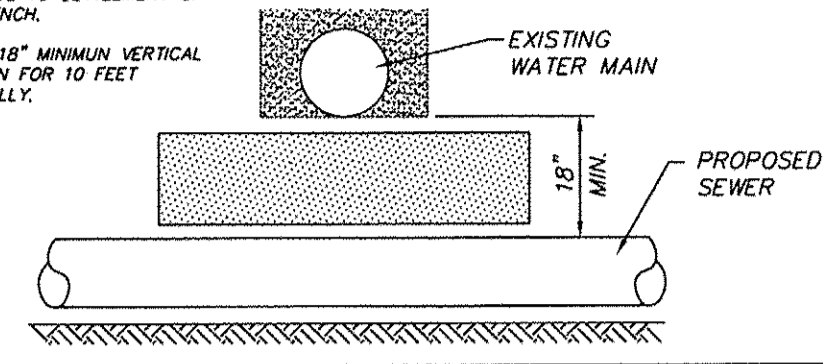


PROPOSED WATER MAIN BELOW EXISTING SEWER LINE WITH LESS THAN 18" MINIMUM SEPARATION.



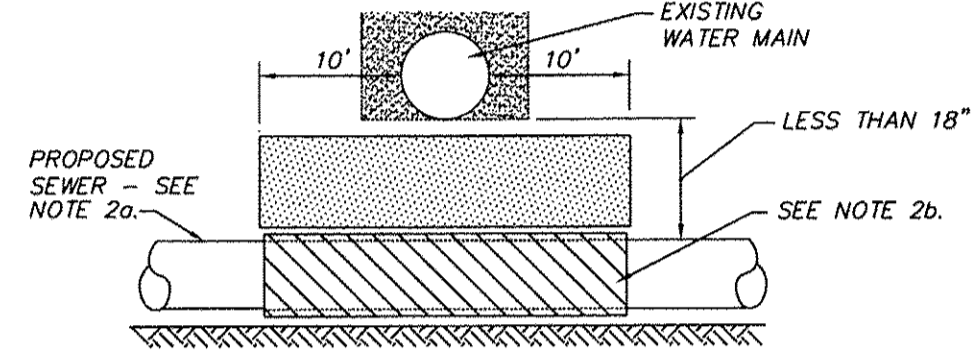
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH 18" MINIMUM SEPARATION.

- NOTES:
1. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.
 2. MAINTAIN 18" MINIMUM VERTICAL SEPARATION FOR 10 FEET HORIZONTALLY.



PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH LESS THAN 18" SEPARATION.

- NOTES:
1. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 10 FEET ON EITHER SIDE OF WATER MAIN.
 20. CONSTRUCT 10 FEET OF PROPOSED SEWER WITH WATER MAIN QUALITY PIPE AND PRESSURE TEST, OR:
 - 2b. USE 10 FEET OF CASING FOR PROPOSED SEWER AND SEAL ENDS OF CASING.
 3. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN.
 4. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.
 5. CLASS IV MATERIAL TO BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DENSITY.



▲ TAKEN FROM THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS - SEE PAGES 156 - 159

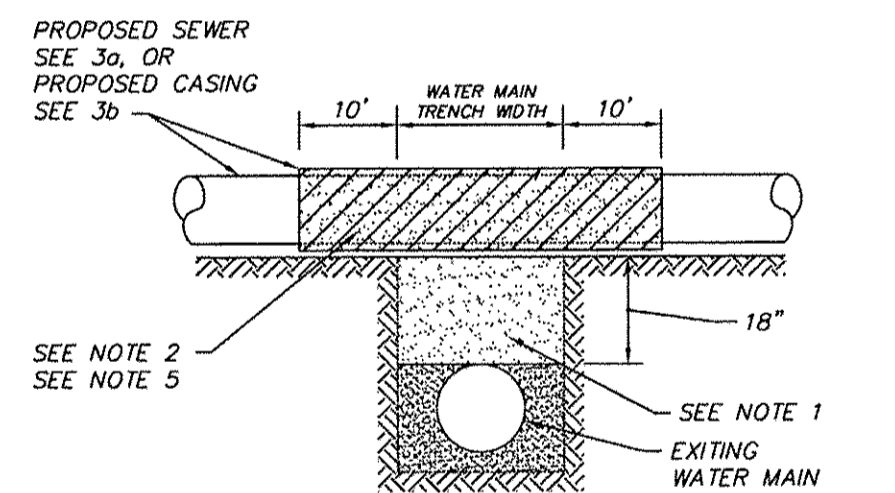
WATER AND SEWER SEPARATION REQUIREMENTS DETAIL

Village of Johnsburg	NO.	REVISIONS	BY	DATE
PUBLIC WORKS DEPARTMENT				
APPENDIX C ENCLOSURE 2.7				

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
STRUCTURE NOTATIONS CHKD	
NO.	

EXISTING WATER MAIN BELOW PROPOSED SEWER LINE WITH LESS THAN 18" SEPERATION.

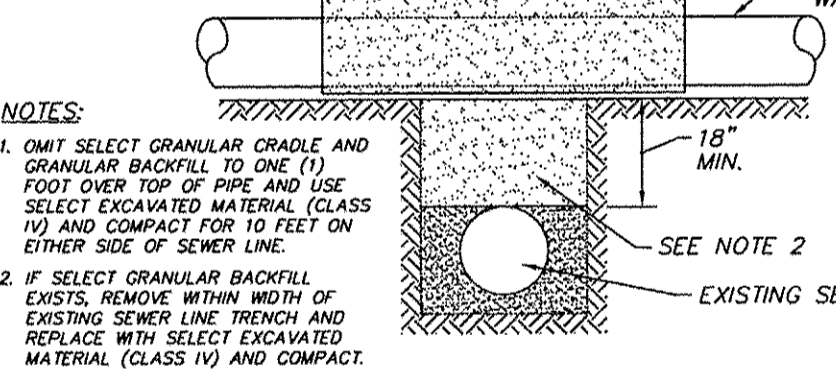
NOTE: CLASS IV MATERIAL TO BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DENSITY.



- NOTES:
1. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
 2. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 10 FEET ON EITHER SIDE OF WATER MAIN.
 3. a. CONSTRUCT 10 FEET OF PROPOSED SEWER WITH WATER MAIN QUALITY PIPE AND PRESSURE TEST, OR:
b. USE 10 FEET OF CASING FOR PROPOSED SEWER AND SEAL ENDS OF CASING.
 4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN.
 5. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH 18" MINIMUM SEPARATION.

NOTE: CLASS IV MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DENSITY.



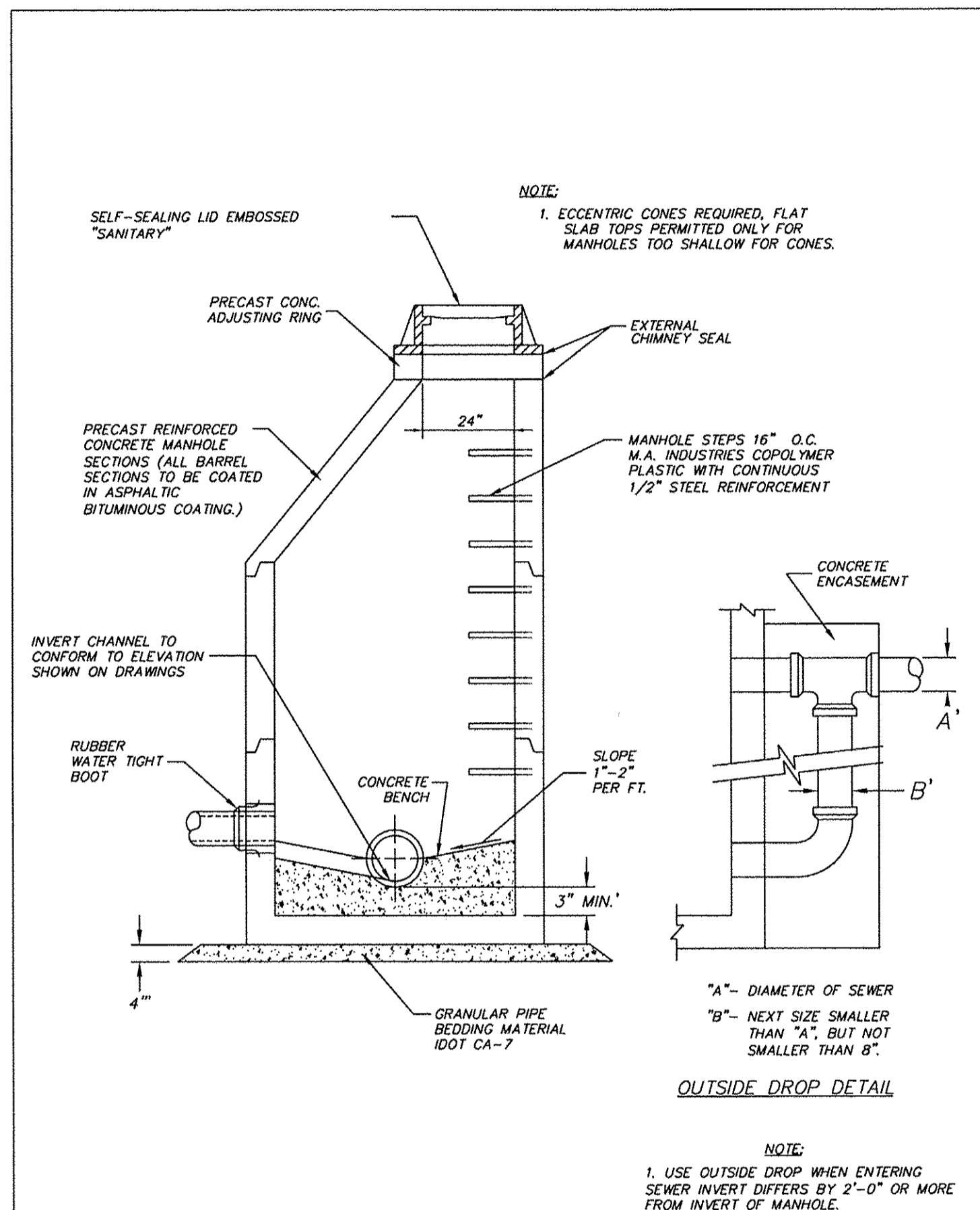
PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" SEPARATION.

- NOTES:
1. OMIT SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 10 FEET ON EITHER SIDE OF SEWER LINE.
 2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
 3. USE A CASING FOR PROPOSED WATER MAIN AND SEAL ENDS OF CASING.
 4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATER MAIN AND SEWER.

▲ TAKEN FROM THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS - SEE PAGES 156 - 159.

WATER AND SEWER SEPARATION REQUIREMENTS DETAIL

Village of Johnsburg	NO.	REVISIONS	BY	DATE
PUBLIC WORKS DEPARTMENT				
APPENDIX C ENCLOSURE 2.8				

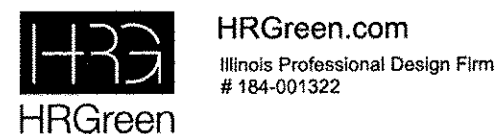


Village of Johnsburg	NO.	REVISIONS	BY	DATE
PUBLIC WORKS DEPARTMENT	1		MGJ	10/17/05
APPENDIX C ENCLOSURE 4.1				
SANITARY MANHOLE DETAIL				

4.1 Sanitary Manhole Detail – Additional Notes:

1. Use outside drop when entering sewer invert differs by 2'-0" or more from invert of manhole.
2. Comply with ASTM C478.
3. Ballast: Increase thickness of precast concrete sections or add concrete to base section, as required to prevent flotation. Precast manhole supplier must verify the buoyancy conditions have been met during shop drawing submission phase.
4. Base Section: 6-inch minimum thickness for floor slab and 4-inch minimum thickness for walls and base riser section, floor slab shall be precast with first riser section.
5. Grade Rings: Include a maximum of three reinforced-concrete rings, of 8 inches maximum total height, that match 24-inch diameter frame and cover.
6. A flexible boot, in accordance with ASTM C 923, resilient, or size required, for each pipe connecting into base section.
7. Steps: Non corrosive plastic coated cast iron manhole steps. The steps shall be cast into the riser sections on 16-inch centers, and the steps shall not be installed over pipes. The step design shall be such to prevent lateral slippage off step
8. The exterior surface of each manhole shall be coated with approved coal tar epoxy meeting Federal Specification DOD-P-23236 or COE formula C-200. Two (2) 8 mil DFT of coal tar epoxy required.
9. All sanitary manholes shall have matching frames and heavy duty, self sealing closed lids; East Jordan Iron Works Frame 1050 in paved areas, and East Jordan Iron Works Frame 1020 in non-paved areas. The word "Sanitary" shall be cast in the lids.
10. Each joint shall have an external sealing device with gear tensioning ratchets, and shall be Mac-Wrap manufactured by Mar Mac Construction Products Inc. or equal and satisfying ASTM C877.
11. Each joint shall also be sealed with one row of a butyl rubber gasket, ADCO WT-64 butyl rubber sealant or equal, and conform to ASTM C443.
12. External Chimney Seals are required to be installed once the cover is set, use external chimney seal manufactured by Cretex Specialty Products or equal.
13. Support units on a level bed of IDOT CA-7 aggregate and compacted to same density as adjacent undisturbed earth.
14. Lifting holes shall be sealed with non-shrink grout.
15. Perform Negative Air Pressure (Vacuum) Tests as specified in ASTM C1244-93 on each sanitary manhole and air release/vacuum valve assembly. Correct deficiencies and retest as specified above to demonstrate compliance.
16. Prior to Completion, Clean internal surfaces of manholes, including sump. Remove foreign material.

HRG PROJECT NO.: 86600350
 FILE NAME: 86600350- h - en-06 -01.dgn
 PLOT DRIVER: pldr.ctb
 PEN TABLE: to labal.plt



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PLOT SCALE = NTS	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: NTS		SHEET NO. 6 OF 7 SHEETS		STA. TO STA.		MUN ST 8500		SECTION NO. 15-00013-00-PV		COUNTY MCHENRY		TOTAL SHEETS 95	SHEET NO. 40
SANITARY DETAILS												CONTRACT NO. 61D31	
CHURCH STREET & ST. JOHN'S AVENUE												FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(8)2	

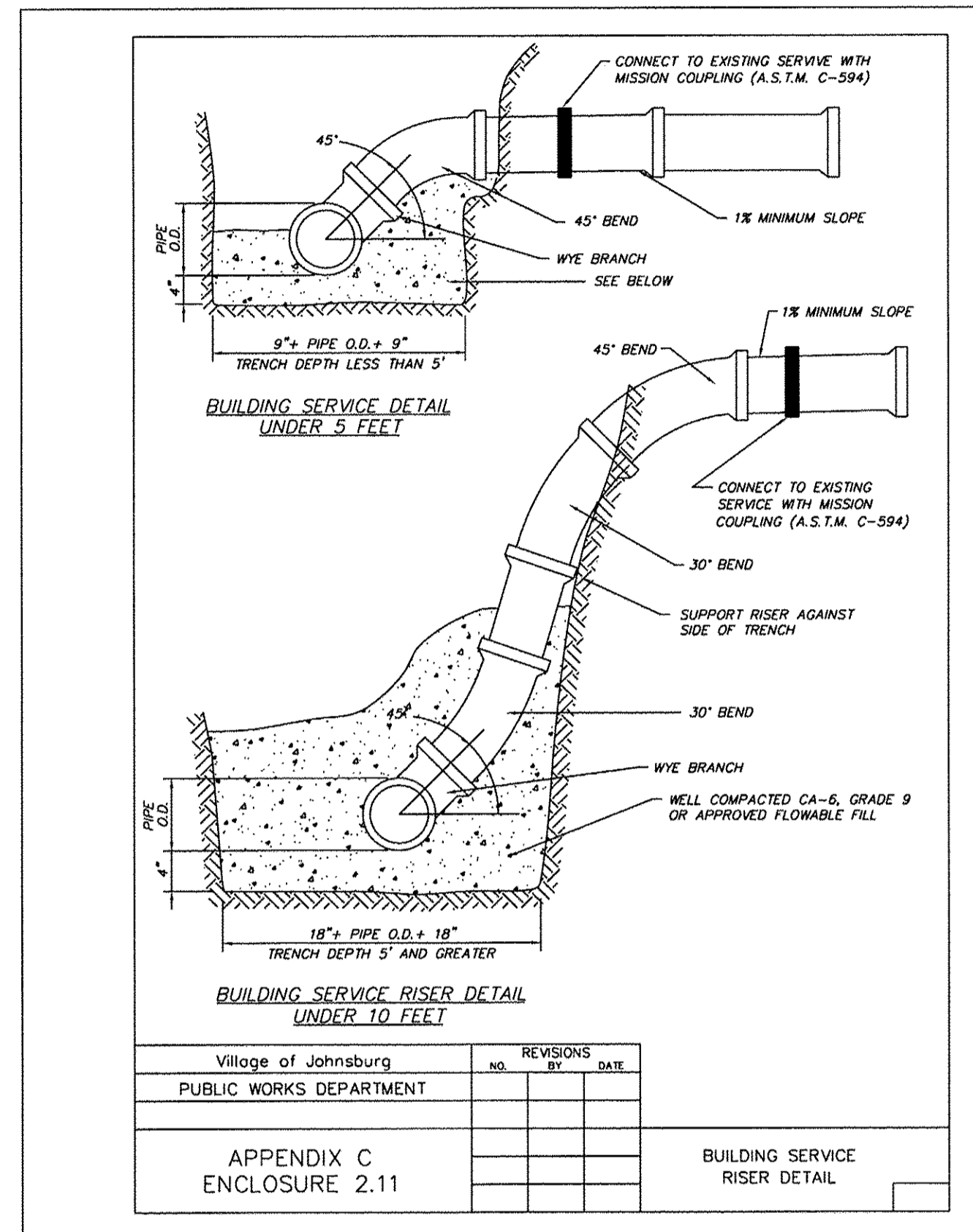
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DATE	BY

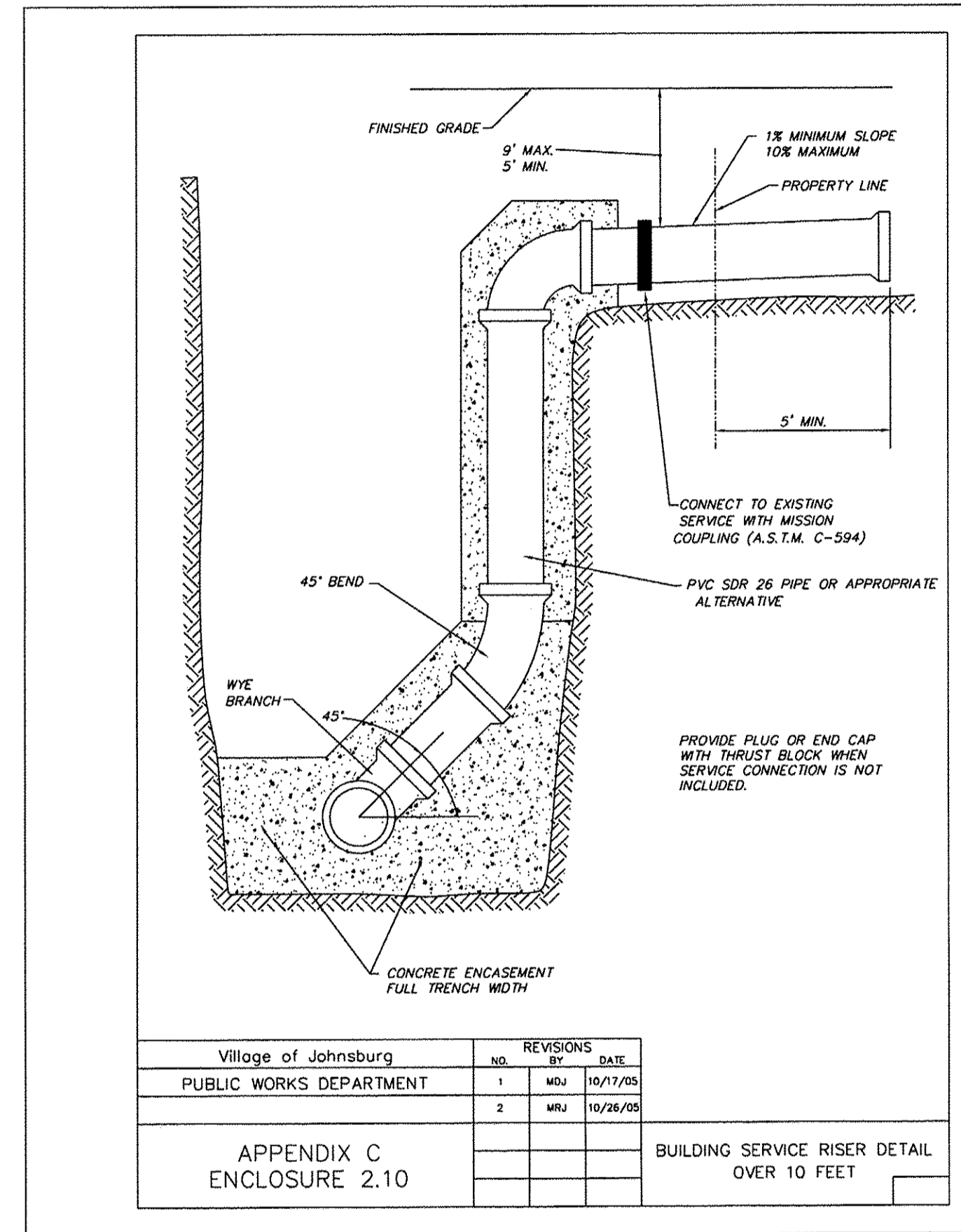
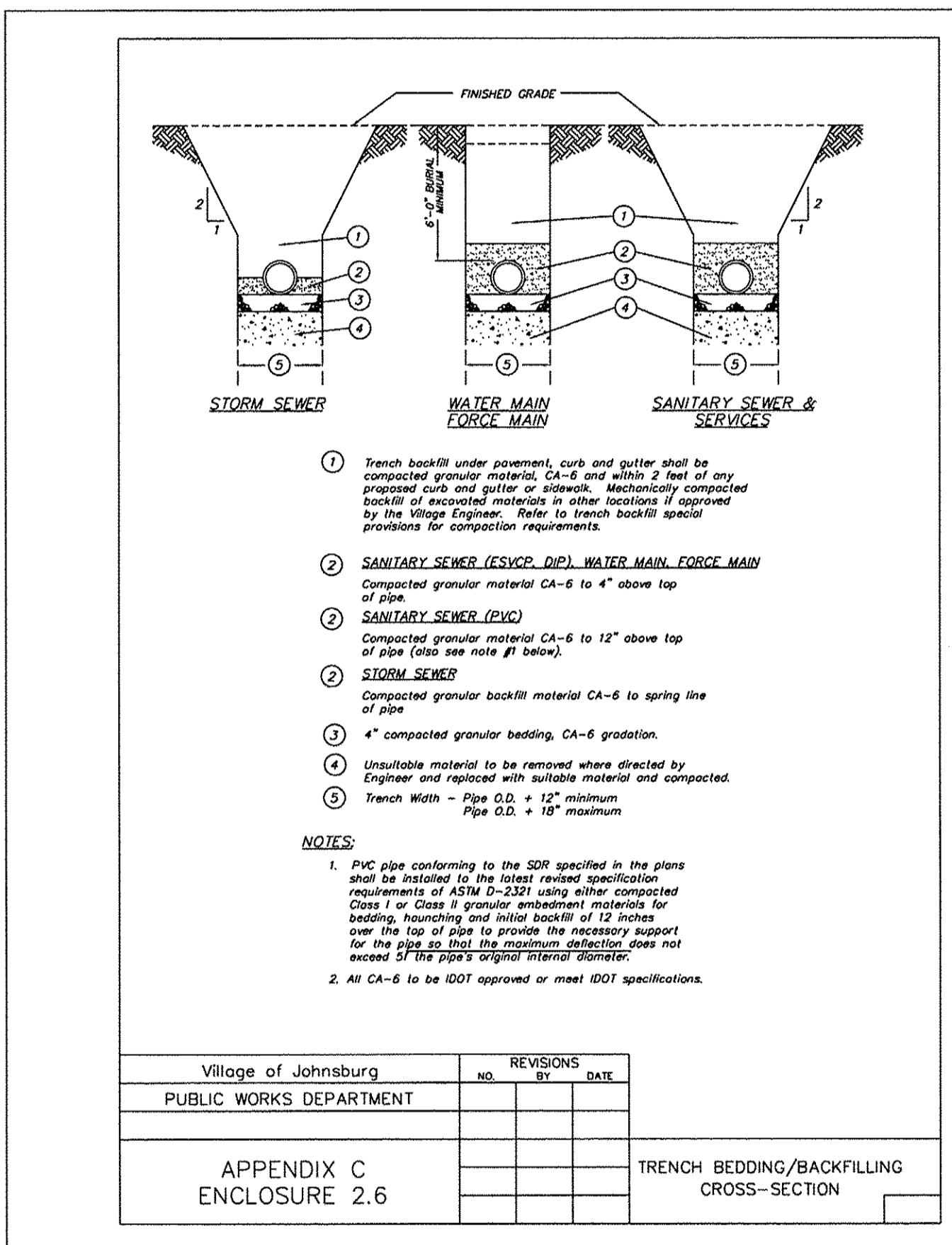
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NOTE BOOK					
NO.					

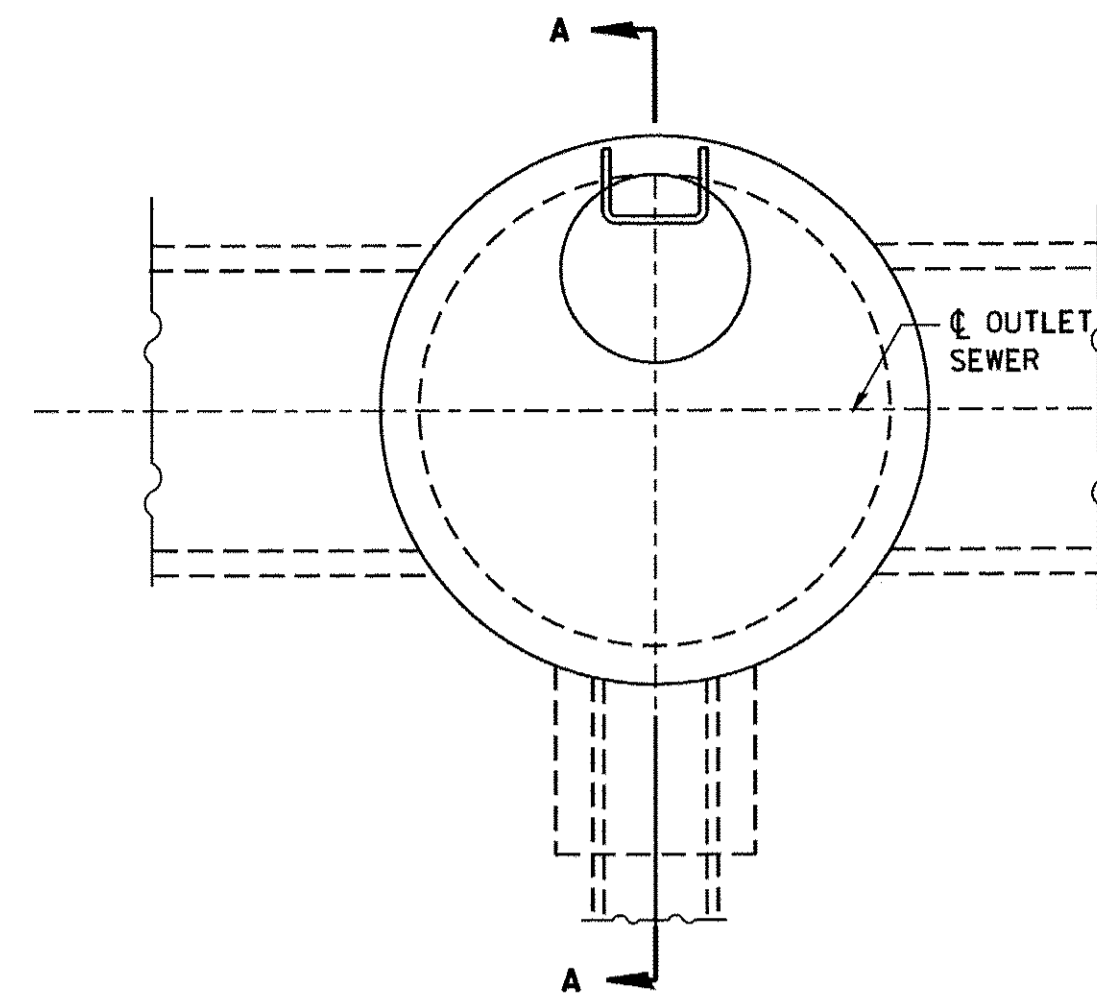
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 HRC PROJ CONTACT: 8650350-h - 07-08 - 02.dgn
 FILE NAME: ll_cfb . l cfb
 PLOT DRIVER: to label . b1
 PEN TABLE:



2.10 and 2.11 Building Service Detail – Additional Notes:

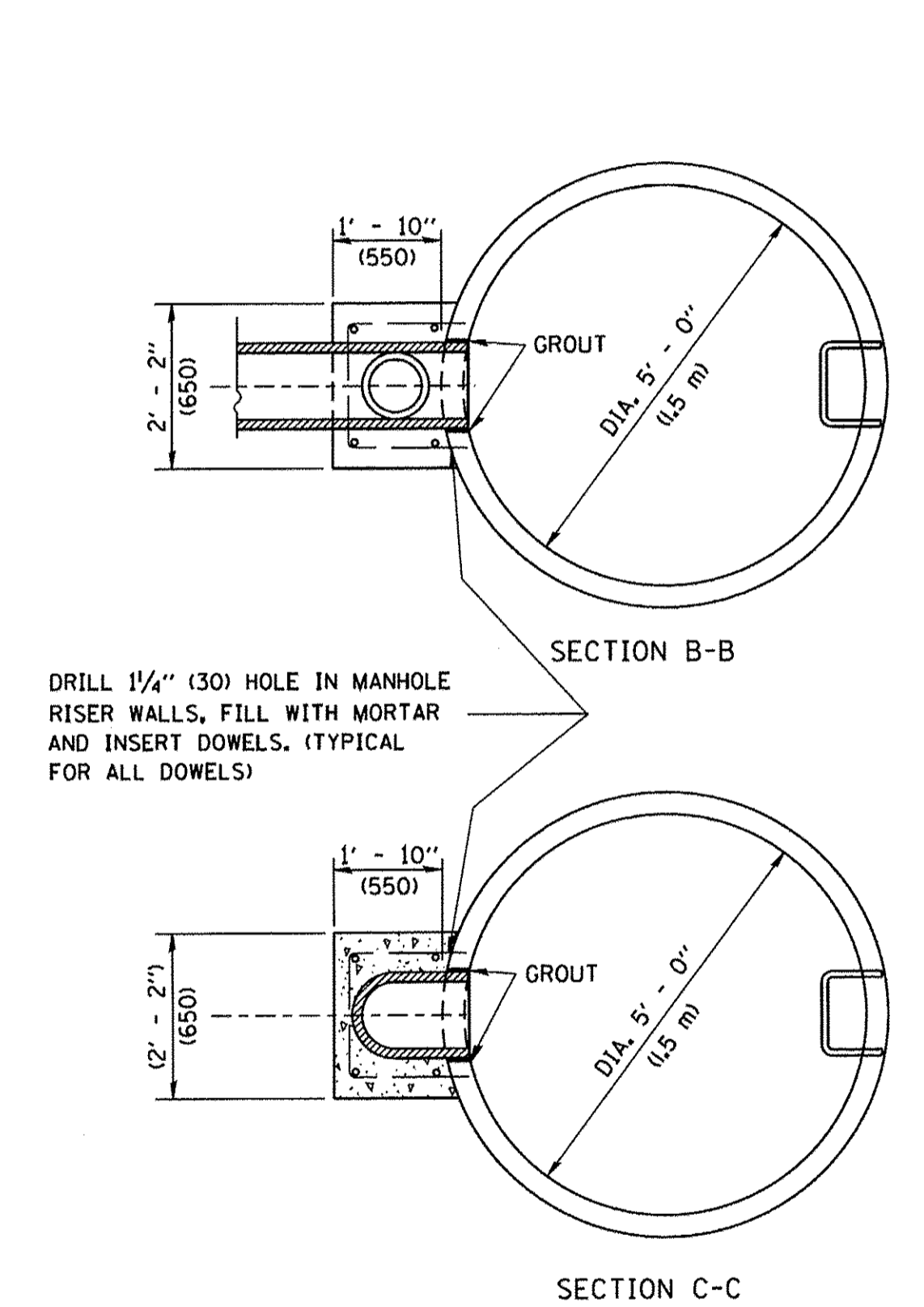
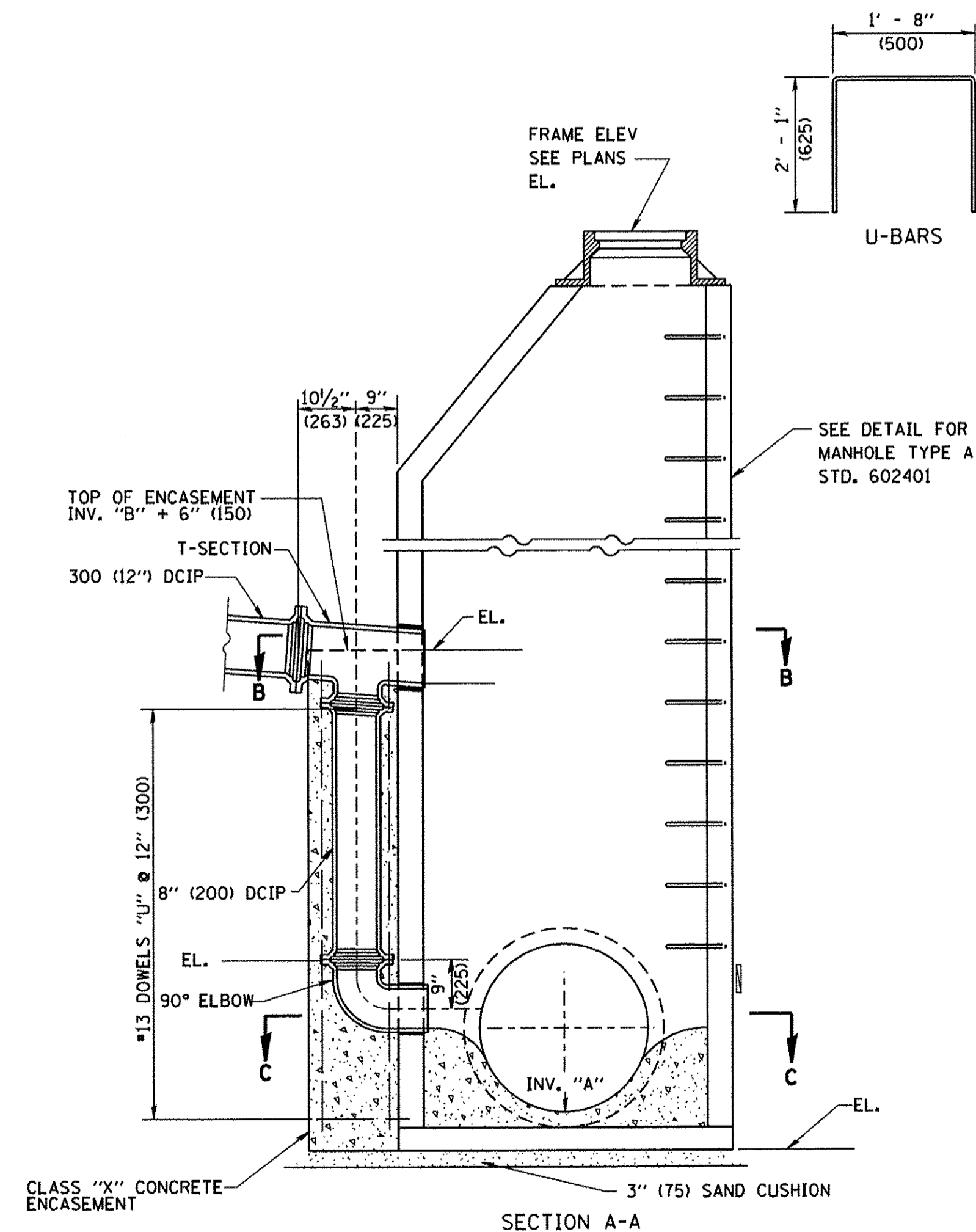
- Minimum 4 inches Diameter SDR 26 PVC Service Lines shall be provided per Plans with a maximum of 9 feet of cover at the property line.
- The services shall be of adequate depth at the property line to gravity drain the lowest point in the building. Where necessary, riser pipes shall be installed to prevent service line from being installed deeper than necessary.
- All services shall be marked with a green topped wood 4" x 4" x 8' stake, securely buried with 30 inches exposed, installed by the Contractor.
- Locations of service wyes shall be noted by the Contractor and submitted to the Engineer for the purpose of Record Drawings.
- Each service shall be capped with a plug of the same material as the pipe. The plug shall be secured to withstand the test pressures.





PLAN
FOR LOCATION SEE DRAINAGE PLANS

ENCASEMENT DETAILS			
DROP M.H. LOCATION STA., OFFSET			
INV. "A"			
INLET PIPE			
INV. "B"			
INV. "C"			
A			
B			
"V" BAR LENGTH			
NO. OF "U" BARS			
REINF. BARS			
CLASS "SI" CONC. CUBIC METER (CU. YD.)			



- TYPE A1-1 MANHOLE WITH 1 DROP AND DEPTH UP TO 10' (3 m)
 TYPE A1-2 " " " 1 " " " FROM 10' TO 15' (3 m TO 1.5 m)
 TYPE A1-3 " " " 1 " " " FROM 15' TO 20' (1.5 m TO 6 m)
 TYPE A1-4 " " " 1 " " " OVER 20' (6 m)
- TYPE A2-1 MANHOLE WITH 2 DROPS AND DEPTH UP TO 10' (3 m)
 TYPE A2-2 " " " 2 " " " FROM 10' TO 15' (3 m TO 1.5 m)
 TYPE A2-3 " " " 2 " " " FROM 15' TO 20' (1.5 m TO 6 m)
 TYPE A2-4 " " " 2 " " " OVER 20' (6 m)

DRILL 1/4" (30) HOLE IN MANHOLE RISER WALLS, FILL WITH MORTAR AND INSERT DOWELS. (TYPICAL FOR ALL DOWELS)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

COMPANY NAME: #PROJECT_CONTACT#
 PROJECT CONTACT: #CLIENT#
 CLIENT: 12/22/2016 8:52:06 AM
 DATE PLOTTED: 86150350-sh1-de1-BD16.dgn
 FILE NAME: IL.pdf, bwp1ctfg
 PLOT DRIVER: plotlabel.tbl
 PEN TABLE:

FILE NAME =	USER NAME = gaglionob	DESIGNED -	REVISED -
W:\diststd\22x34\bd16.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - 10-18-02	REVISED -

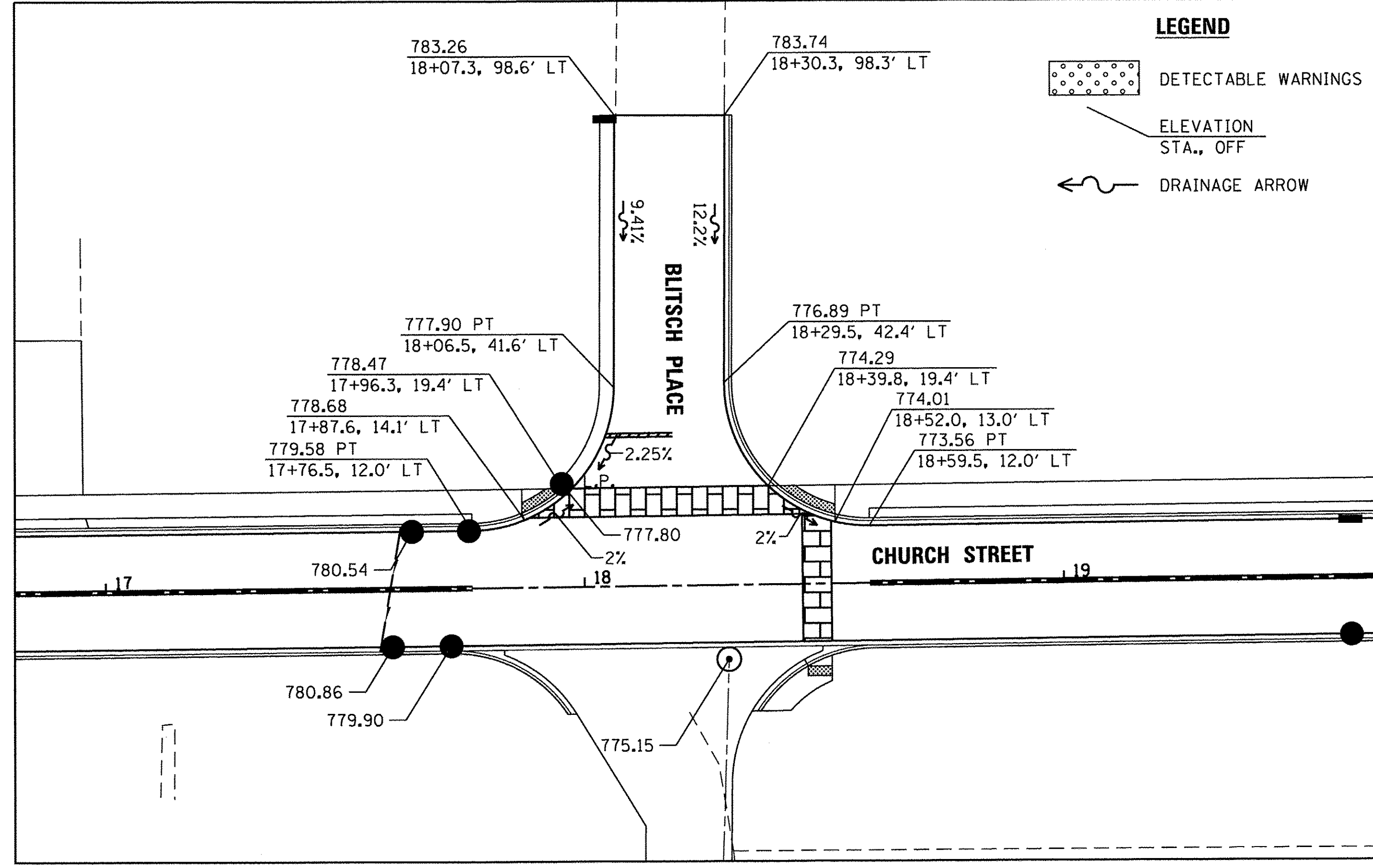
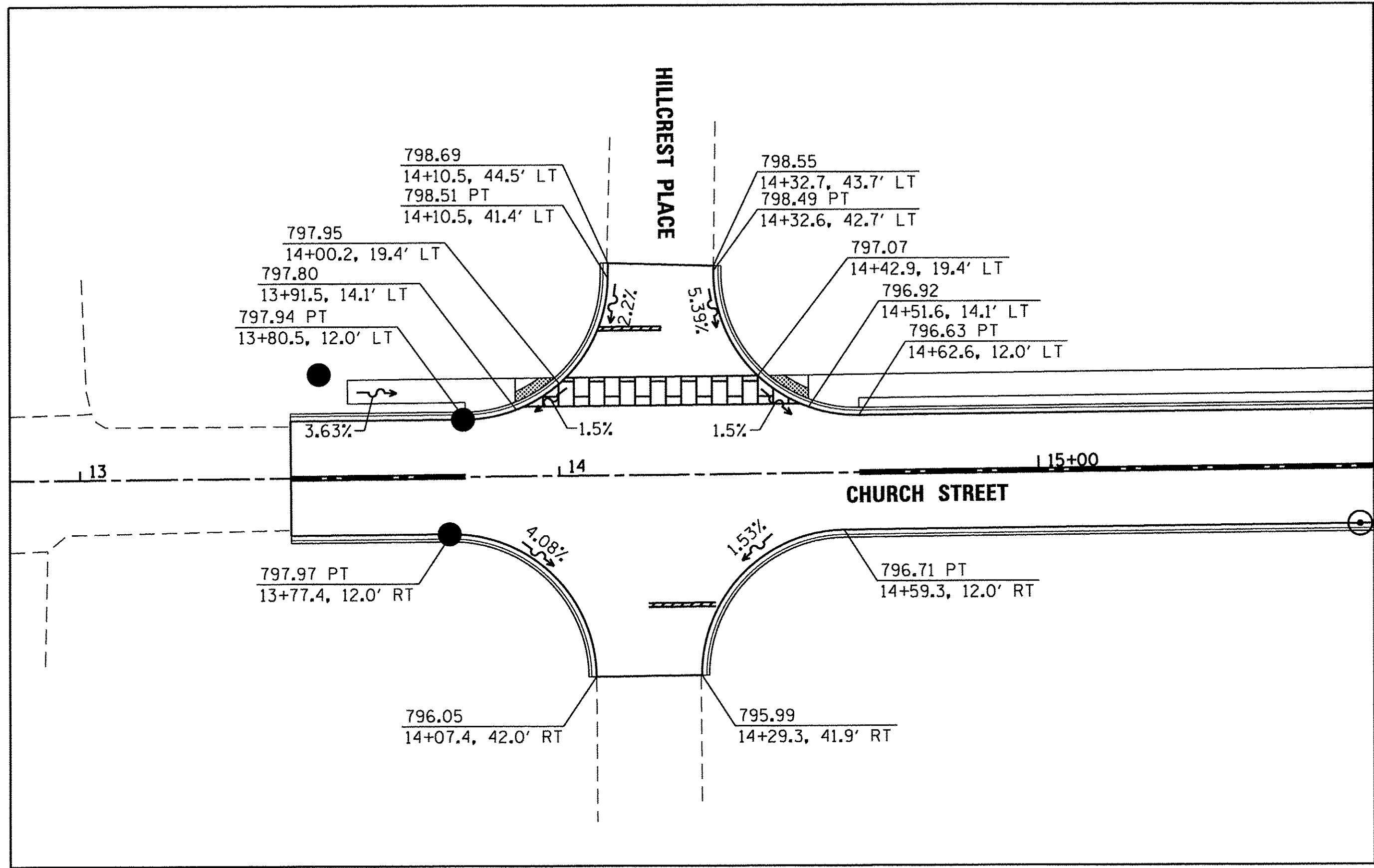
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DROP MANHOLE DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	42
BD600-05 (BD-16)		CONTRACT NO. 61D31		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

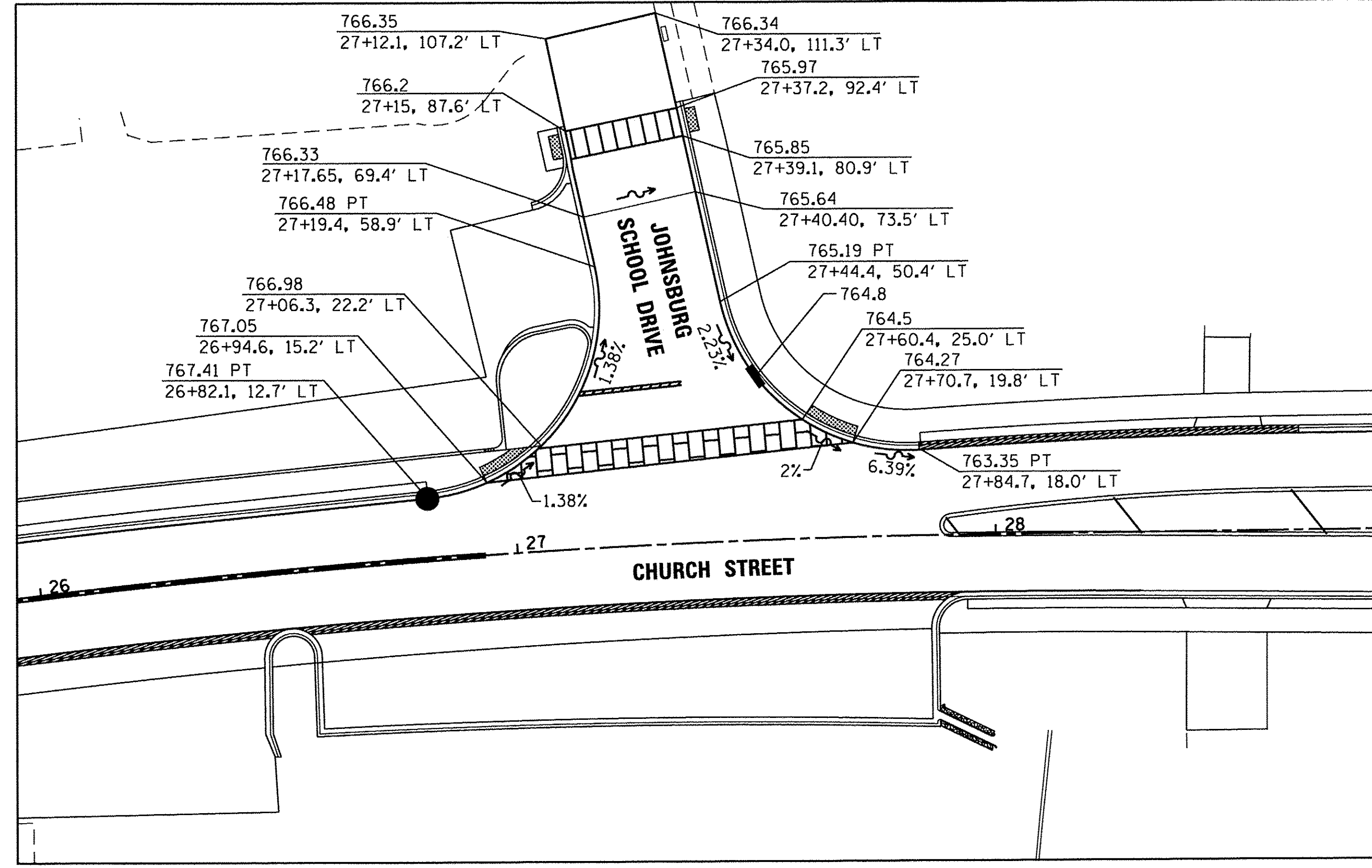
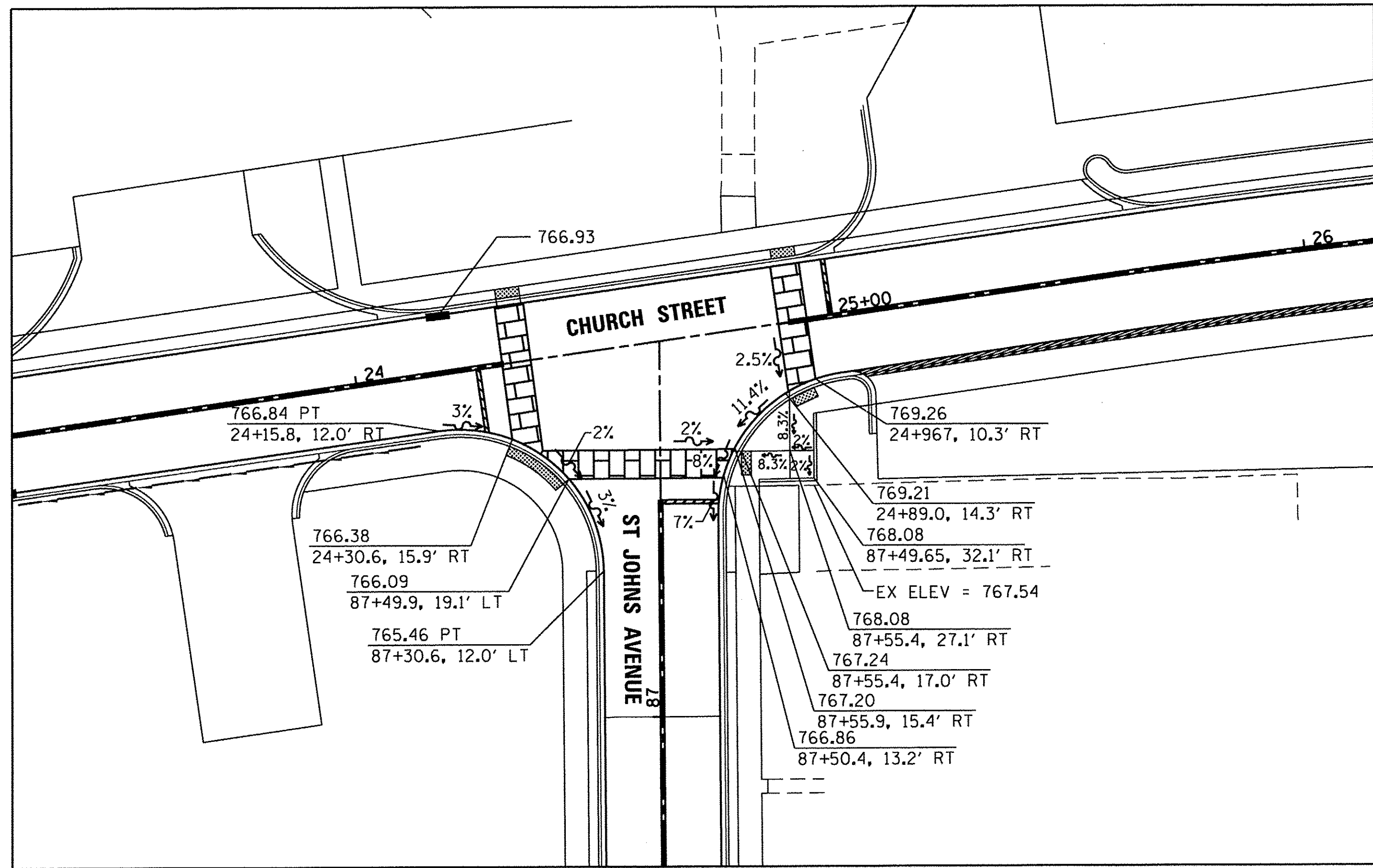
PLAN	DATE
SURVEYED	
PLANNED	
DESIGNED	
CHECKED	
BY	
NO.	



LEGEND

	DETECTABLE WARNINGS
	ELEVATION STA., OFF
	DRAINAGE ARROW

PROFILE	DATE
SURVEYED	
PLANNED	
DESIGNED	
CHECKED	
BY	
NO.	



HRG PROJECT NO.: 8650350
 HRG CONTACT: 8650350-h-1g-01.dgn
 FILE NAME: 15-0013-00-PV
 PLOT DRIVER: lrc_07.b - l cfg
 PEN TABLE: lo tabel. bi



USER NAME = mzu210	DESIGNED - MZ	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 1"=20'	CHECKED -	REVISED -
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

INTERSECTION GRADING PLAN

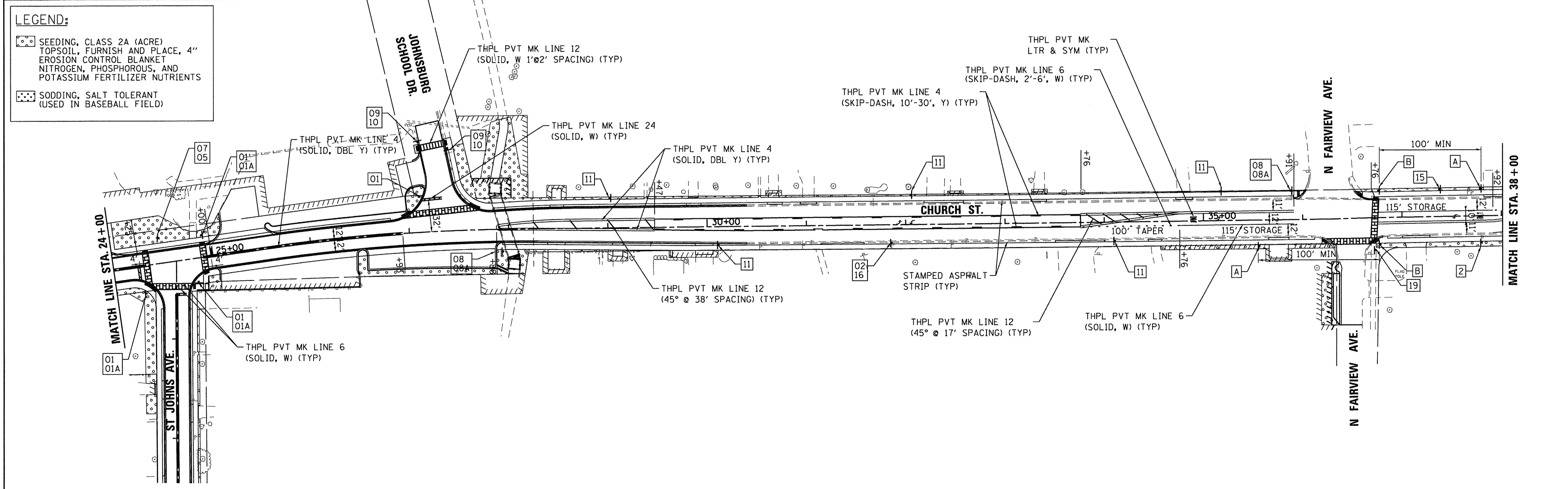
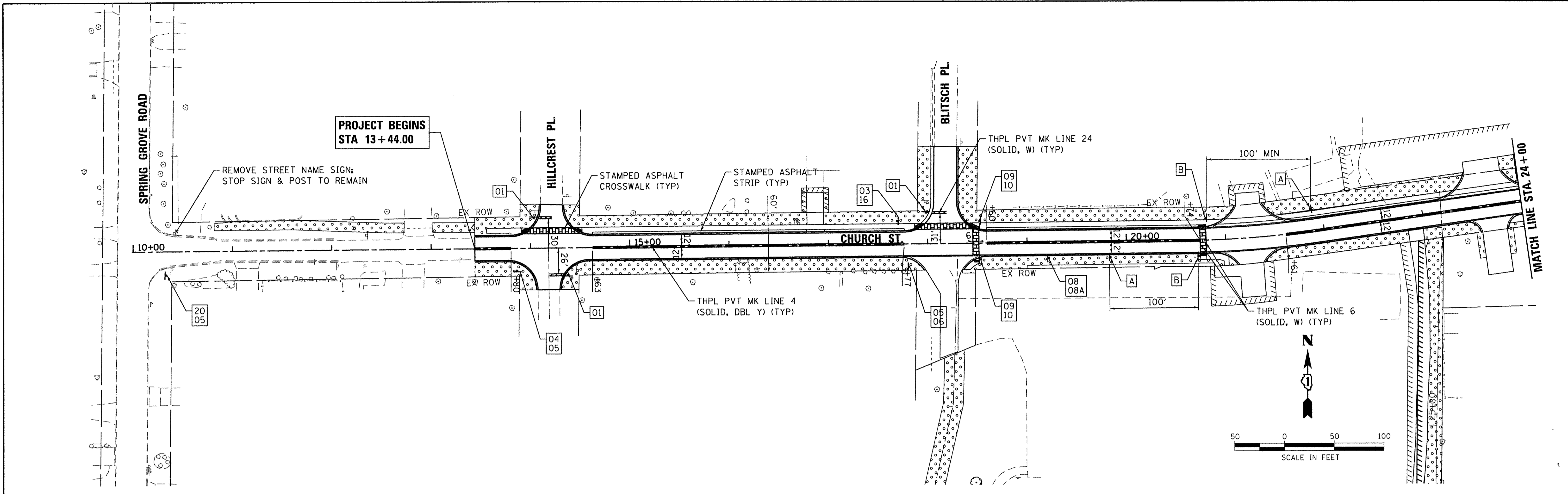
SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-0013-00-PV	MCHENRY	95	43
				CONTRACT NO. 61D31
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

PLAN	NO.
SURVEYED	DATE
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
PODD FILE NAME	

PROFILE	NO.
SURVEYED	DATE
GRADES CHECKED	
BLM. NOTED	
STRUCTURE NOTATIONS OK'D	

HRC PROJECT NO.: 8650350
 HRC PROJ. CONTACT: 8650350-h - mk-01.dgn
 FILE NAME: ll_crf-b_1.crfg
 PLOT DRIVER: to_label.bl
 PEN TABLE:



LEGEND:

- SEEDING, CLASS 2A (ACRE)
TOPSOIL, FURNISH AND PLACE, 4"
EROSION CONTROL BLANKET
NITROGEN, PHOSPHOROUS, AND
POTASSIUM FERTILIZER NUTRIENTS
- SODDING, SALT TOLERANT
(USED IN BASEBALL FIELD)

HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME =	mzuzzio
DESIGNED -	MZ
DRAWN -	DMS
CHECKED -	
DATE -	12/22/16
PLOT SCALE =	1"=50'
PLOT DATE =	12/22/2016

REVISED -	
REVISED -	
REVISED -	
REVISED -	



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN
CHURCH STREET

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	44
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

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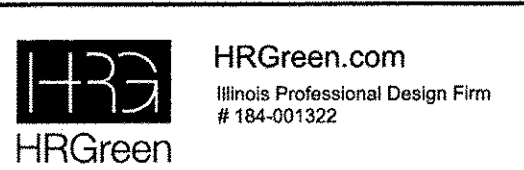
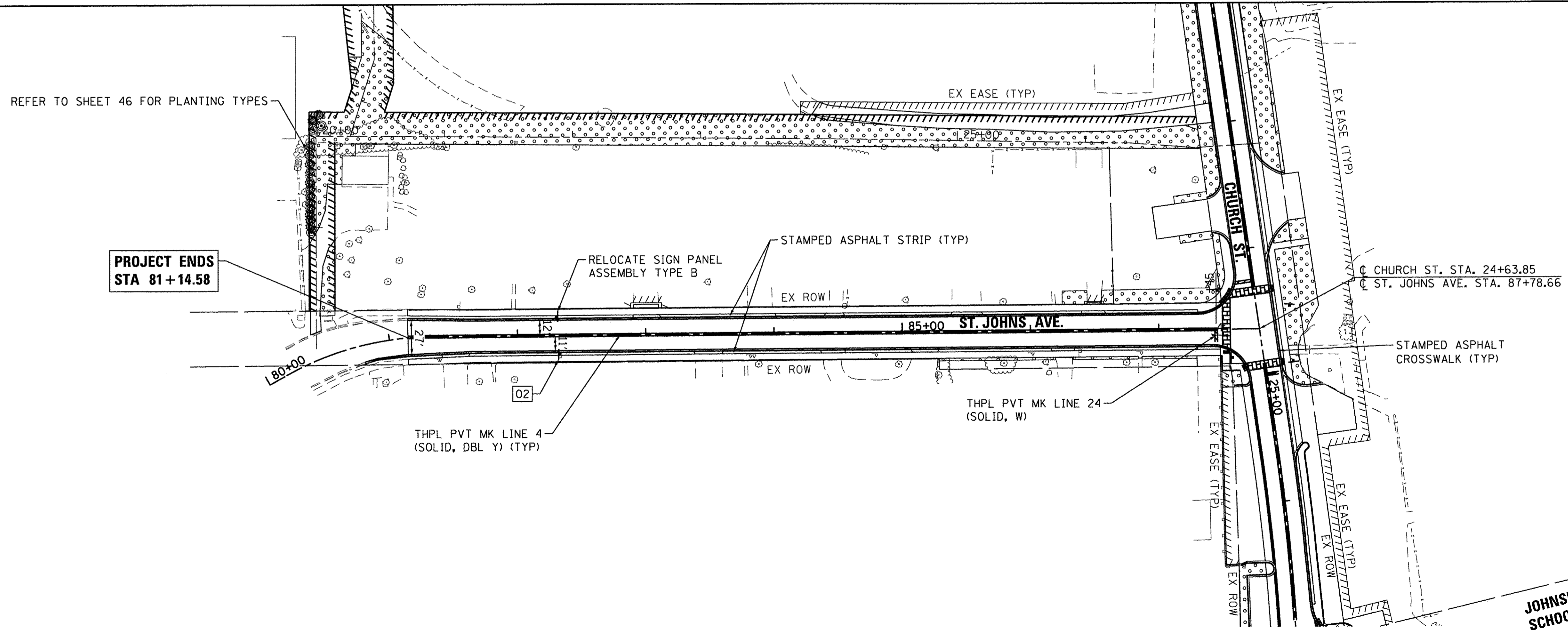
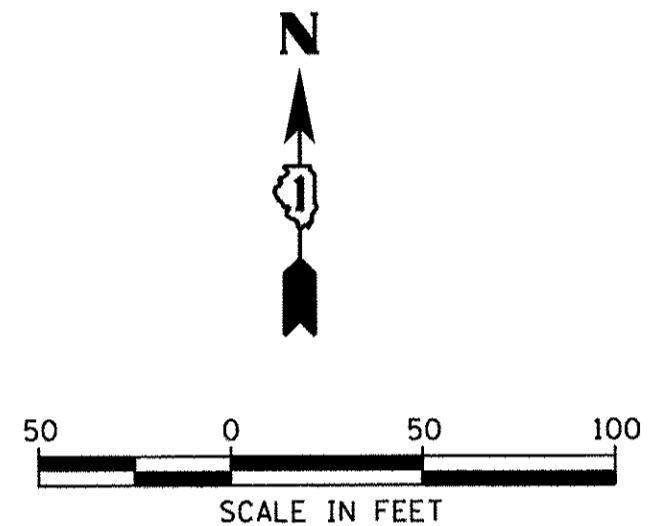
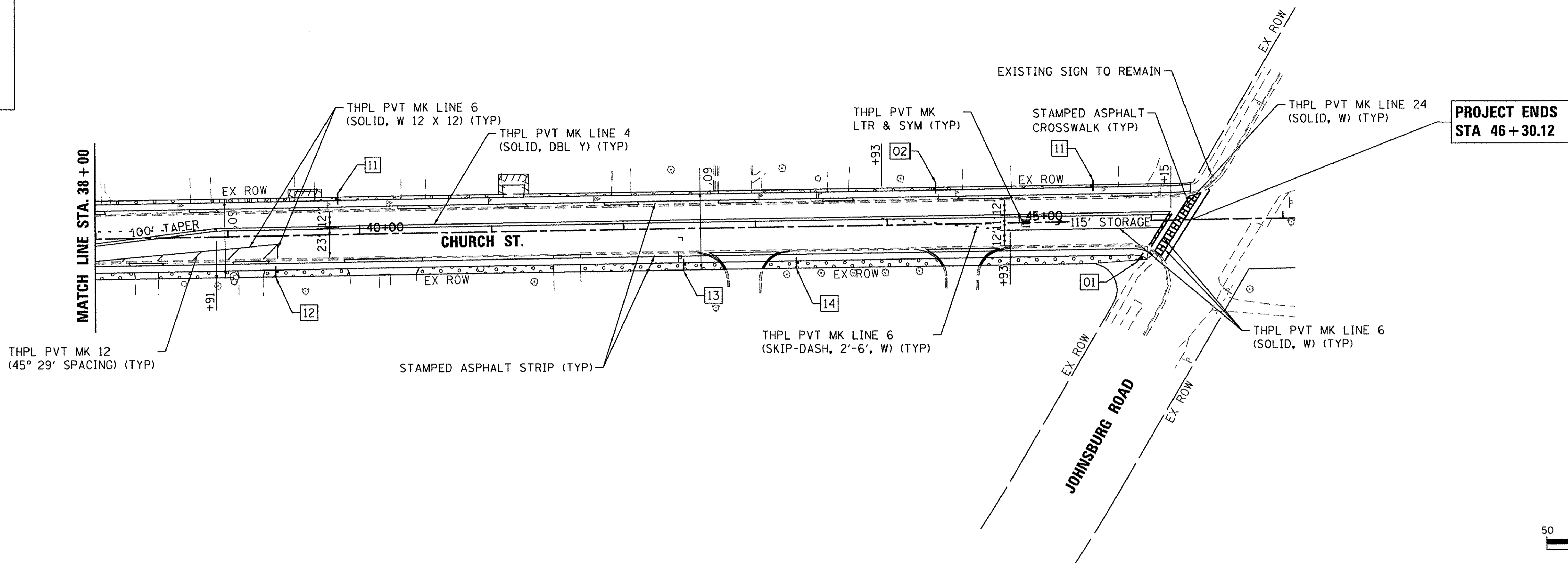
LEGEND:

-  SEEDING, CLASS 2A (ACRE)
TOPSOIL, FURNISH AND PLACE, 4"
EROSION CONTROL BLANKET
NITROGEN, PHOSPHOROUS, AND
POTASSIUM FERTILIZER NUTRIENTS
-  SODDING, SALT TOLERANT
(USED IN BASEBALL FIELD)

DATE	
BY	
REVISIONS	
PLANNED	
NOTED	
ALIGNED	
CHECKED	
FILE NAME	
NO.	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
REVISIONS	
PLANNED	
NOTED	
ALIGNED	
CHECKED	
FILE NAME	
NO.	
PROFILE	
NOTE BOOK	
NO.	

HRC PROJECT NO: 8650350
 HRC PROJ CONTACT: 8650350-h - mk-02-001
 FILE NAME: ll_ of b .1 of g
 PLOT DRIVER: to label, bi
 PEN TABLE:



USER NAME =	mzuzzio
DESIGNED -	MZ
DRAWN -	DMS
CHECKED -	
PLOT SCALE =	1"=50'
PLOT DATE =	12/22/2016
DATE -	12/22/16

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN
 CHURCH STREET & ST. JOHN'S AVENUE**

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	45
				CONTRACT NO. 61D31
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

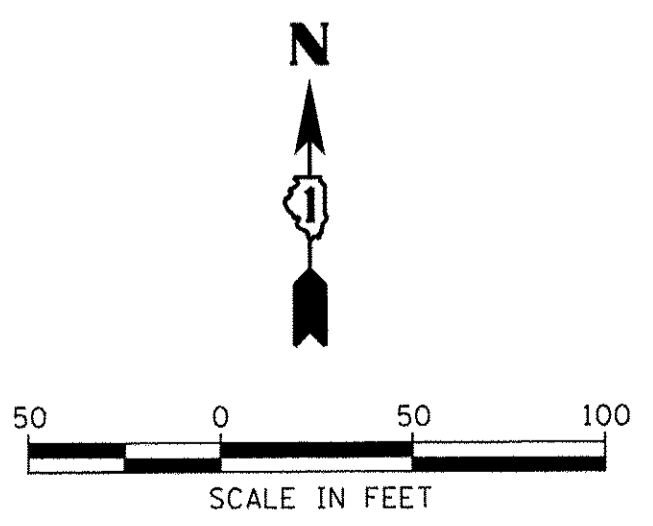
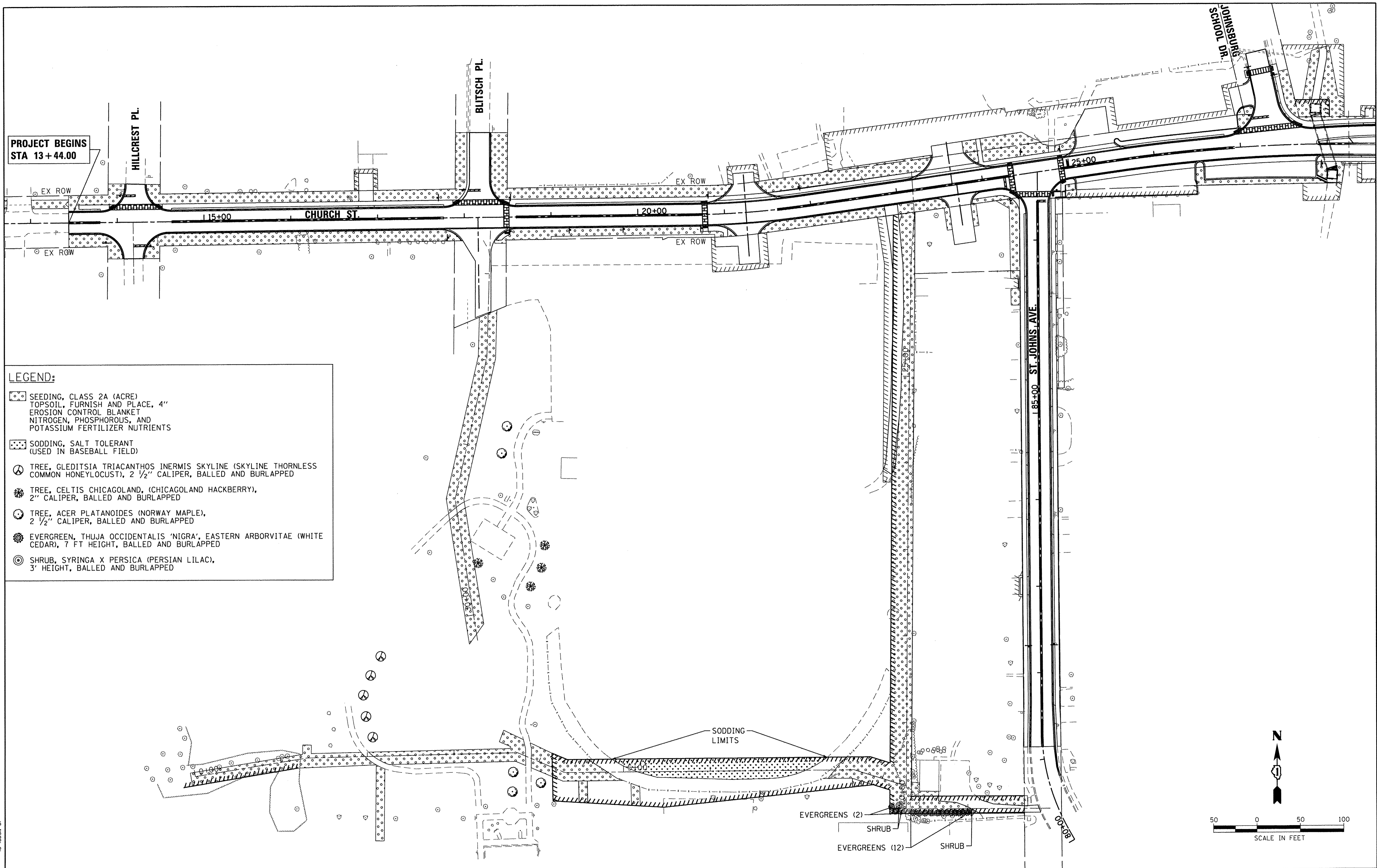
DATE	
BY	
SURVEYED	
ALIGNED	
RT. OF WAY CHECKED	
PAID FILE NAME	
PLAN NO.	
NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
SCOTTED	
B.M. NOTED	
STRUCTURE NOTATIONS CHKD	
PROFILE NO.	
NOTE BOOK NO.	

HRG PROJECT NO.: 8650350
 HRG PROJ CONTACT: 8650350 - h - mk-04.00n
 FILE NAME: IL_cfl_b .1 ctf
 PLOT DRIVER: to label .bl
 PEN TABLE:

PROJECT BEGINS
 STA 13+44.00

- LEGEND:**
- SEEDING, CLASS 2A (ACRE)
 TOPSOIL, FURNISH AND PLACE, 4"
 EROSION CONTROL BLANKET
 NITROGEN, PHOSPHOROUS, AND
 POTASSIUM FERTILIZER NUTRIENTS
 - SODDING, SALT TOLERANT
 (USED IN BASEBALL FIELD)
 - TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS
 COMMON HONEYLOCUST), 2 1/2" CALIPER, BALLED AND BURLAPPED
 - TREE, CELTIS CHICAGOLAND, (CHICAGOLAND HACKBERRY),
 2" CALIPER, BALLED AND BURLAPPED
 - TREE, ACER PLATANOIDES (NORWAY MAPLE),
 2 1/2" CALIPER, BALLED AND BURLAPPED
 - EVERGREEN, THUJA OCCIDENTALIS 'NIGRA', EASTERN ARBORVITAE (WHITE
 CEDAR), 7 FT HEIGHT, BALLED AND BURLAPPED
 - SHRUB, SYRINGA X PERSICA (PERSIAN LILAC),
 3' HEIGHT, BALLED AND BURLAPPED



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 Illinois Professional Design Firm
 #184-001322

USER NAME = mzu2210	DESIGNED - MZ	REVISED -
PLOT SCALE = 1"=50'	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

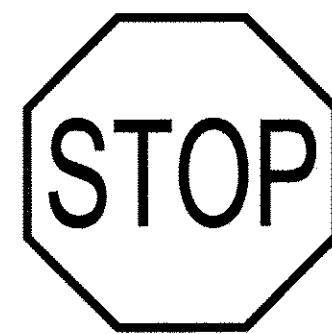
PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN
RESCUE PARK/TIGER'S FIELD
 SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	46
				CONTRACT NO. 61D31
FED. ROAD DIST. NO. 1 ILLINOIS				FED. AID PROJECT M-40031812

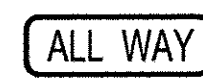
DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
NOTED	
STRUCTURE	
NOTATIONS	
CHRD	

DATE	
BY	
PROFILE	
SURVEYED	
ALIGNED	
NOTED	
STRUCTURE	
NOTATIONS	
CHRD	

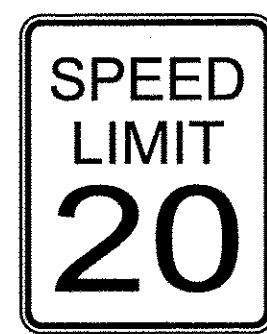
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 PLOT DRIVER: to label . bl
 PEN TABLE:



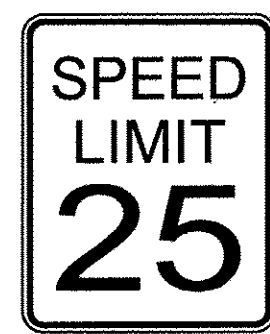
01
R1-1
30" X 30"



01A
R1-3P
18" X 6"



02
R2-1
24" X 30"



03
R2-1
24" X 30"



04
SPECIAL
42" X 13"



05
SPECIAL
42" X 13"



06
SPECIAL
42" X 13"



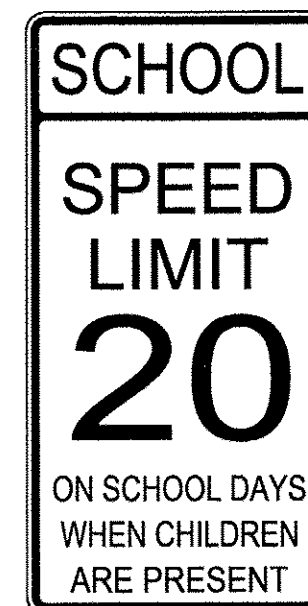
07
SPECIAL
42" X 13"



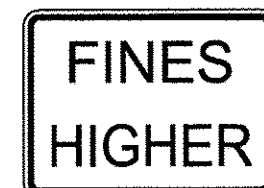
19
SPECIAL
42" X 13"



20
SPECIAL
42" X 13"



08
S4-1100
24" X 48"



08A
R2-6P
24" X 18"



09
W11-2
30" X 30"



10
W16-7 (L OR R)
24" X 12"



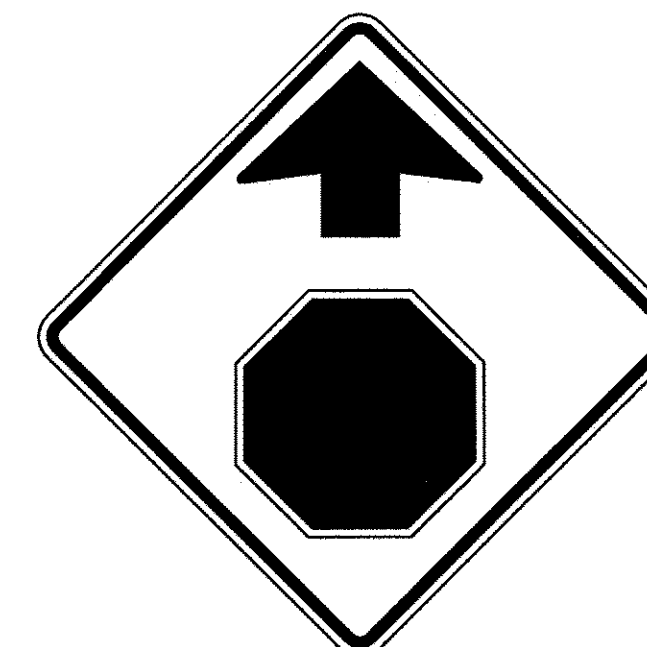
11
R7-1
12" X 18"



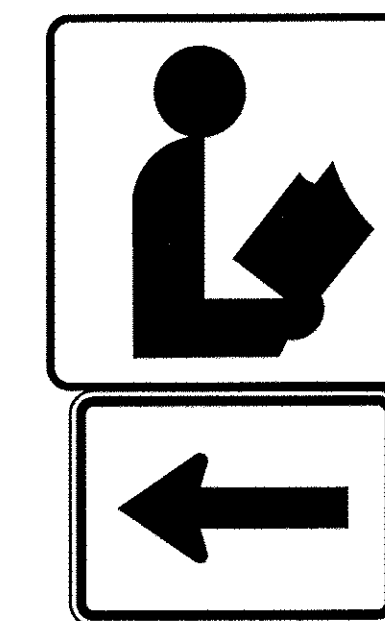
12
R7-1R
12" X 18"



13
R7-1L
12" X 18"

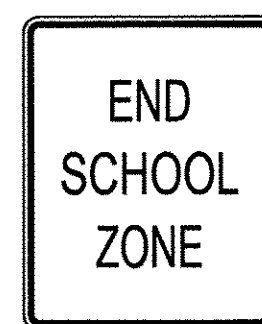


14
W3-1
30" X 30"



I-8
24" X 24"

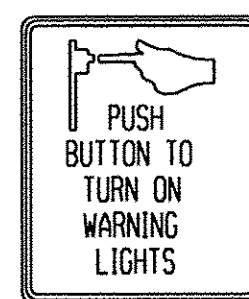
M6-1(GR)
24" X 15"



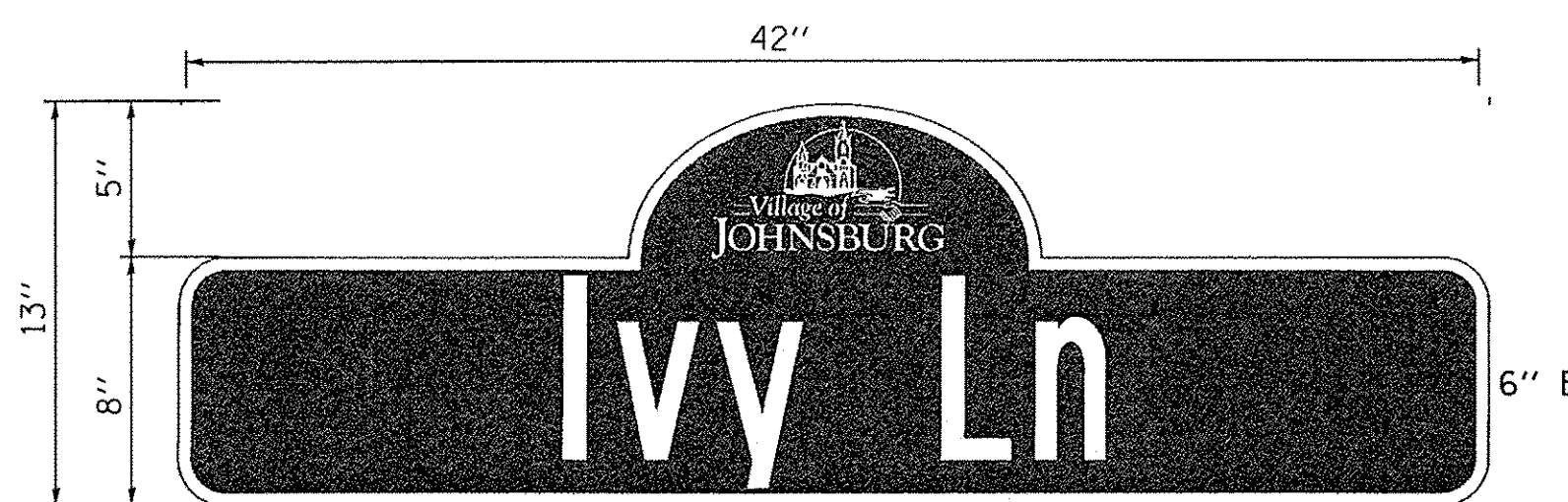
16
S5-2
24" X 30"



17
W16-9P
24" X 12"

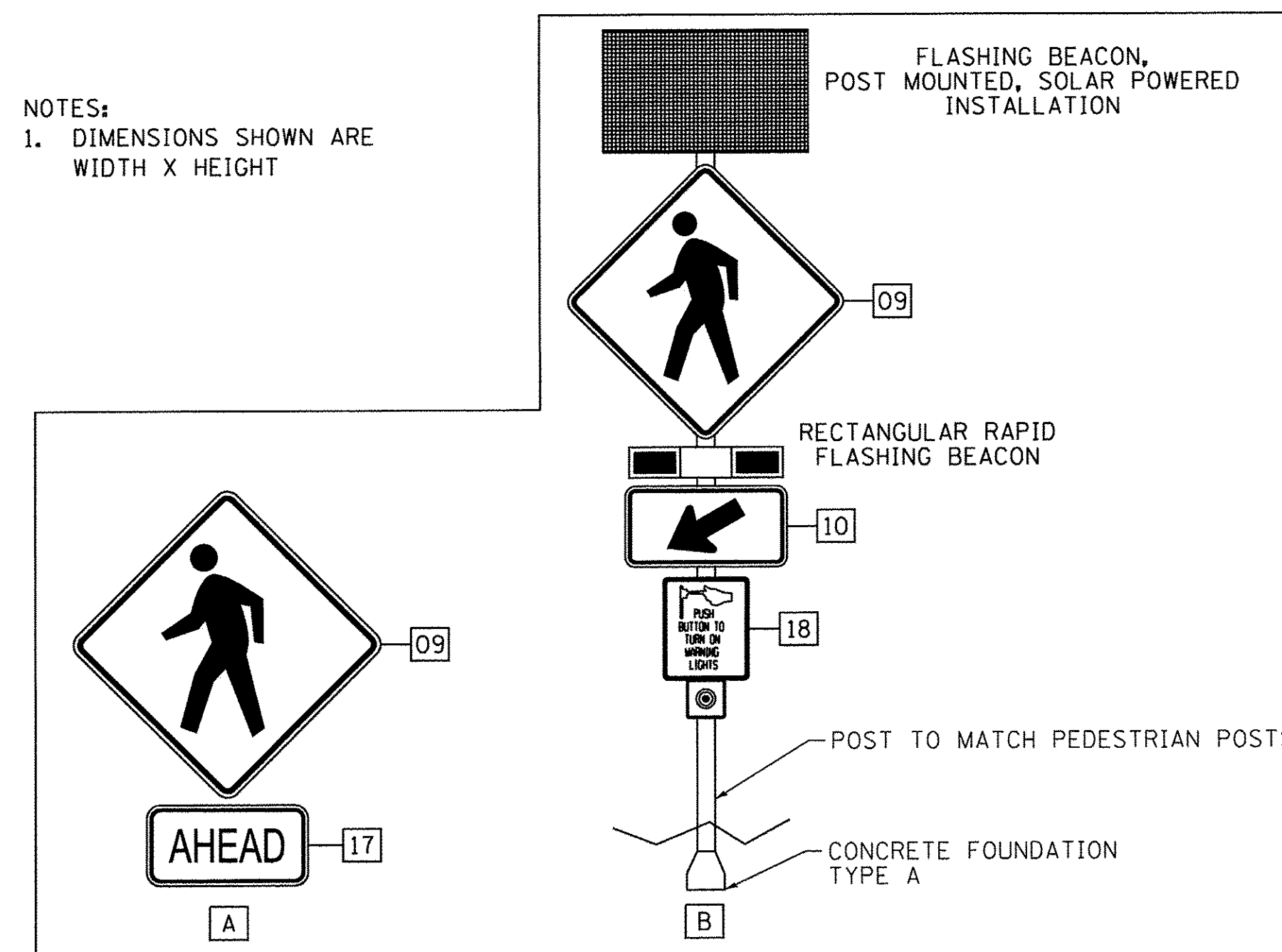


18
R10-25
9" X 12"



POST WILL BE DECORATIVE WITH LATTICE UNDER THE SIGN.
 POST WILL BE 4"x4" BLACK POWDER COATED. COORDINATE WITH THE VILLAGE OF JOHNSBURG FOR DETAILS.

NOTES:
1. DIMENSIONS SHOWN ARE WIDTH X HEIGHT



SIGN INSTALLATION DETAIL



USER NAME =	mzuz210
DESIGNED -	MZ
DRAWN -	DMS
CHECKED -	
DATE -	12/22/16
PLOT SCALE =	NTS
PLOT DATE =	12/22/2016

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN
SIGN LEGEND

SCALE: NTS SHEET NO. 4 OF 4 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	47
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(B12)				

DESIGN SPECIFICATIONS
2015 AASHTO LRFD Bridge
Design Specifications

DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

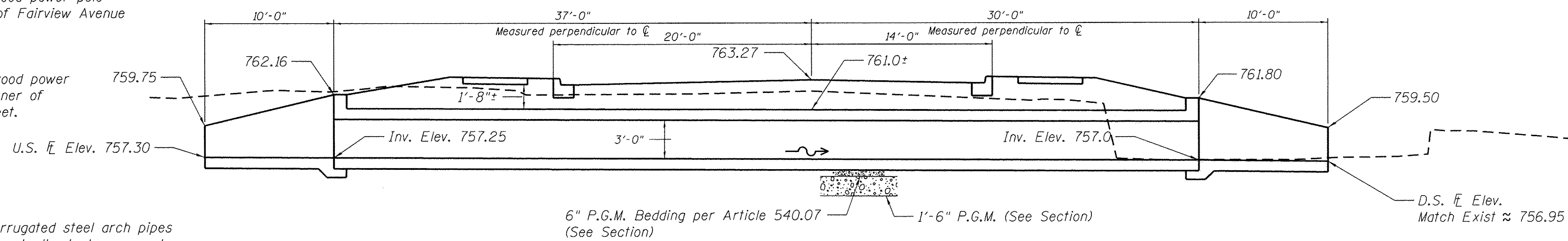
PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi

LOADING HL-93

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

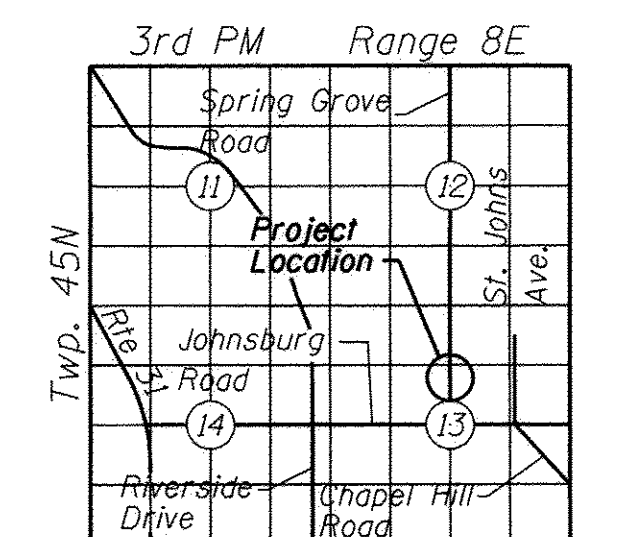
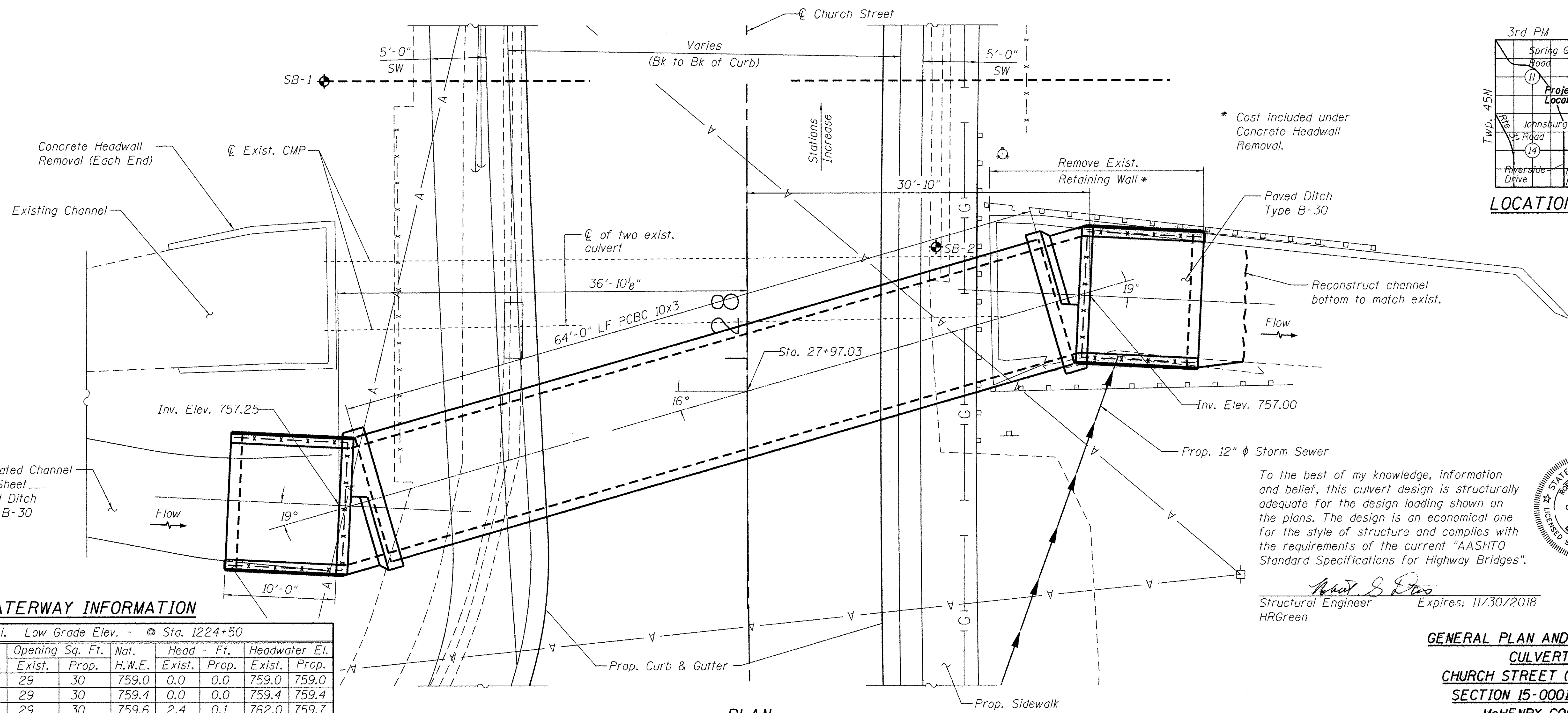
- Benchmark:**
- Railroad spike in west face of wood power pole located at the southeast corner of Spring Grove Road and Church Street.
Elevation = 792.77 NAVD88.
 - Railroad spike in west face of wood power pole located at the northeast corner of Fairview Avenue and Church Street.
Elevation = 757.71 NAVD88.
 - Railroad spike in west face of wood power pole located at the northeast corner of Johnsburg Road and Church Street.
Elevation = 749.77 NAVD88.



LONGITUDINAL SECTION

Existing Structure: Two 58"x36" corrugated steel arch pipes with concrete headwalls, to be removed.

Proposed Structure: The Proposed 10x3 Concrete Box Culvert will be constructed during a full closure of Church Street.



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 0.41 sq. mi. Low Grade Elev. = @ Sta. 1224+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
	10	70	29	30	759.0	0.0	0.0	759.0	759.0	759.0
Design	50	158	29	30	759.4	0.0	0.0	759.4	759.4	759.4
Base	100	218	29	30	759.6	2.4	0.1	762.0	759.7	759.7
Max. Calc.	500	348	29	30	760.0	2.6	2.5	762.6	762.5	762.5

To the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO Standard Specifications for Highway Bridges".

Robert G. Davies
Structural Engineer
HRGreen
Expires: 11/30/2018



GENERAL PLAN AND ELEVATION
CULVERT
CHURCH STREET (FAU 8500)
SECTION 15-00013-00-PV
MCHENRY COUNTY
STATION 27+98.33

HRG PROJECT NO.: 8650350
HRG PROJ. CONTACT: 8650350_STR_Gee.dgn
FILE NAME: IL_pdr_dwp1c19g
PLOT DRIVER: IL_pdr_dwp1c19g
PEN TABLE: plottbl.tbl



USER NAME = whood	DESIGNED - RGD	REVISD -
PLOT SCALE =	CHECKED - RGD	REVISD -
PLOT DATE = 12/22/2016	DRAWN - WJH	REVISD -
	CHECKED - 12/22/16	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
CHURCH STREET

F.A.U. RTE. 8500	SECTION 15-00013-00-PV	COUNTY MCHENRY	TOTAL SHEETS 95	SHEET NO. 48
				CONTRACT NO. 61D31
ILLINOIS FED. AID PROJECT				

SHEET NO. 1 OF 7 SHEETS

GENERAL NOTES

- Precast concrete culverts, 10x3 shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of ASTM 1577-14.

The minimum precast concrete strength shall be 5,000 psi.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

Fill varies from 1'-0" to 2'-4"
- BOX CULVERT END SECTIONS shall be paid for as noted in Article 540.08, and The Contract Unit Price for BOX CULVERT END SECTIONS shall include all porous granular bedding material, cast in place wingwalls, headwalls, and aprons, cast in place portions between cells, reinforcement, excavation, backfill, and preformed joint filler.

The Contract Unit Price for Precast Concrete Box Culverts shall include excavation as noted in Article 502.13 and Porous Granular Backfill as noted in Article 540.06.

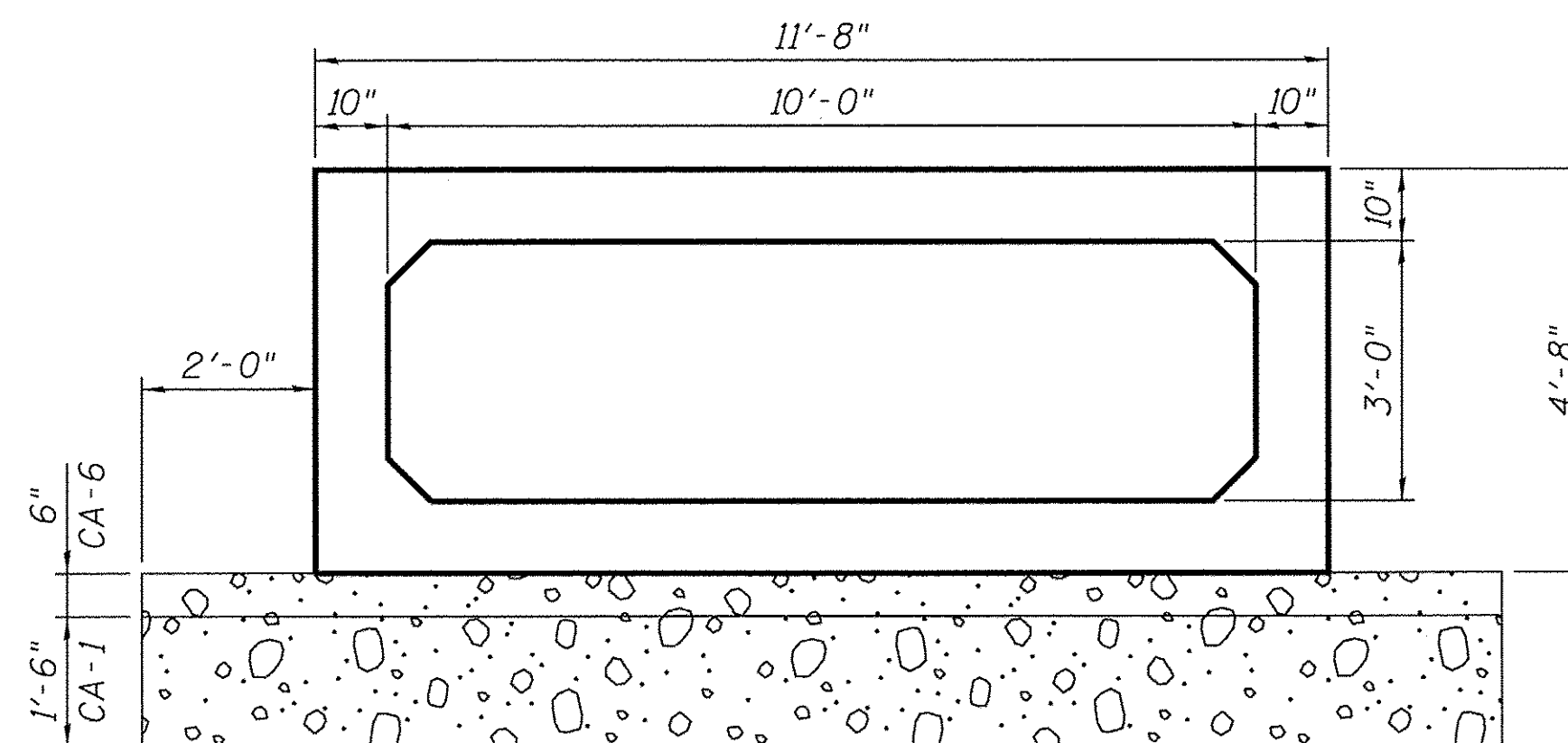
See Section thru Precast Barrel.
- Reinforcement bars shall conform to the requirements of ASTM A 760 Gr 60. See Special Provisions.
- Contractor shall maintain streamflow in accordance with the Standard Specifications Article 502. Maintaining stream flow shall be included in the unit price for Precast Concrete Box Culverts, 10x3.
- Reinforcement bars designated (E) shall be epoxy coated
- Diversion and Construction activities shall not be permitted to cause water levels upstream to rise more than 2'-0" above the streambed, or above elevation = 759.25.
- Cover for cast in place concrete from the face of Concrete to Reinforcement bars shall be 3" from surfaces formed against earth and 2" for all other surfaces unless otherwise shown.
- All exposed surfaces of the Box Culvert End Section shall be finished with a Rubbed Finish according to Article 503.15 (b).
- Storm sewer penetrations must be coordinated with Drainage and Utility plans and adjusted, if necessary.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Pedestrian Rail (Special)	Foot	59
Box Culvert End Sections	Each	2
Precast Concrete Box Culvert, 10' x 3'	Foot	64
Concrete Headwall Removal	Each	2
Pipe Culvert Removal	L.F.	114

INDEX OF SHEETS

- General Plan and Elevation
- General Notes and Total Bill of Materials
- Culvert End Section Layout
- Culvert End Section Reinforcement
- Culvert End Section Details
- Culvert End Section - Railing Details
- Soil Boring Logs



Porous Granular furnished and installed under pay item "Precast Concrete Box Culverts" (Section 540 of The Standard Specifications)

U.S. Elev. 754.4
D.S. Elev. 754.2

SECTION THRU PRECAST BARREL

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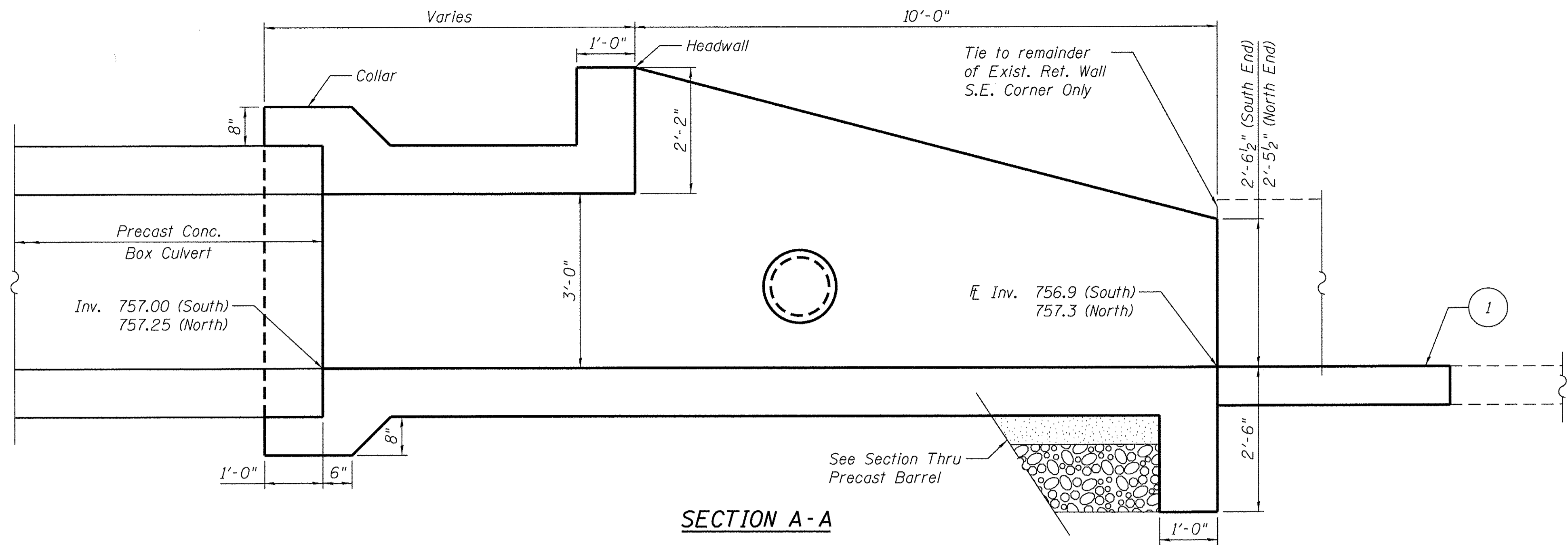
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

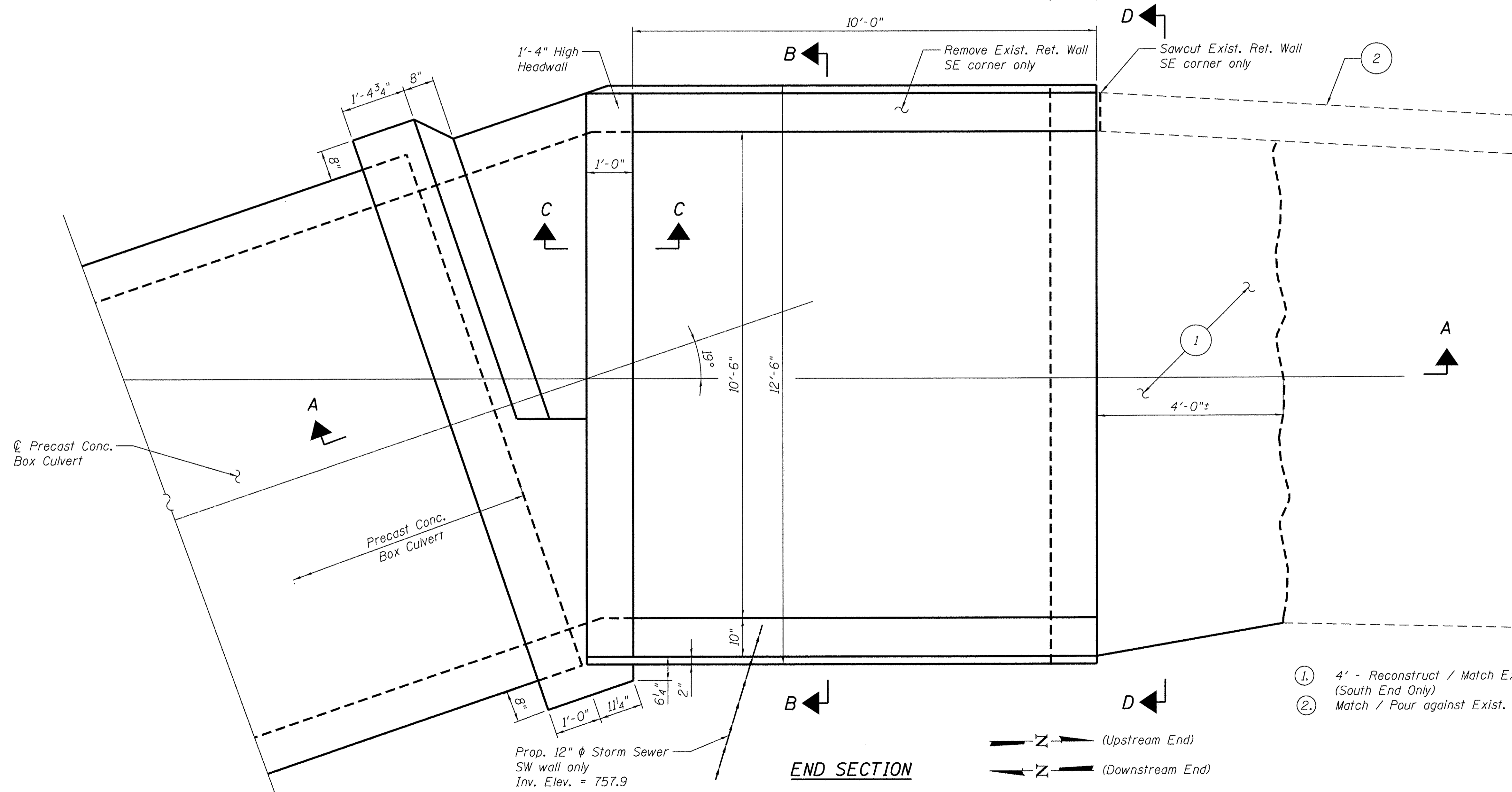
**GENERAL NOTES AND TOTAL BILL OF MATERIALS
CHURCH STREET**

SHEET NO. 2 OF 7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	49
CONTRACT NO. 61031				
ILLINOIS FED. AID PROJECT				

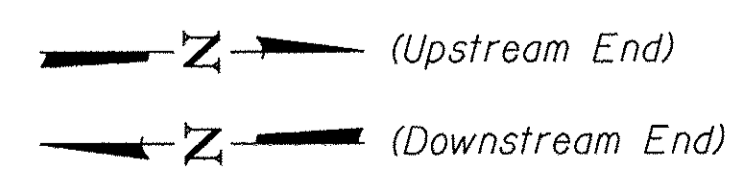


SECTION A-A



END SECTION

- ① 4' - Reconstruct / Match Exist. Concrete Channel (South End Only)
- ② Match / Pour against Exist. Ref. Wall



HRC PROJECT NO.: 8650350
 HRC PROJ. CONTACT: 8650350_STR_CulvertDetail.dgn
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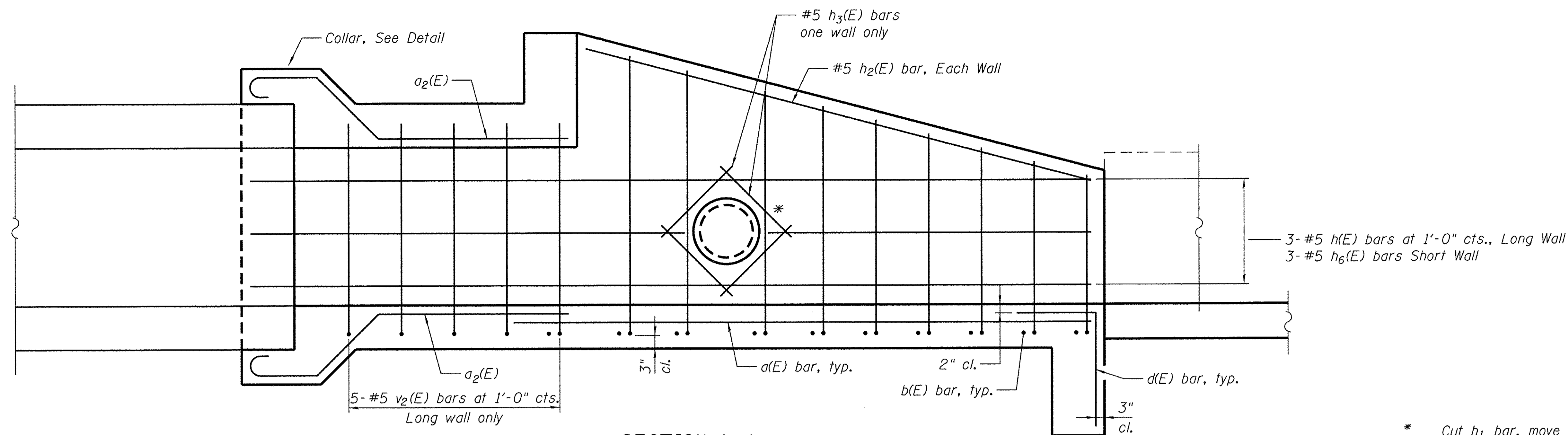
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PLOT SCALE =	DRAWN - WJH	REVISED -
PLOT DATE = 12/22/2016	CHECKED - 12/22/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT END SECTION LAYOUT
CHURCH STREET

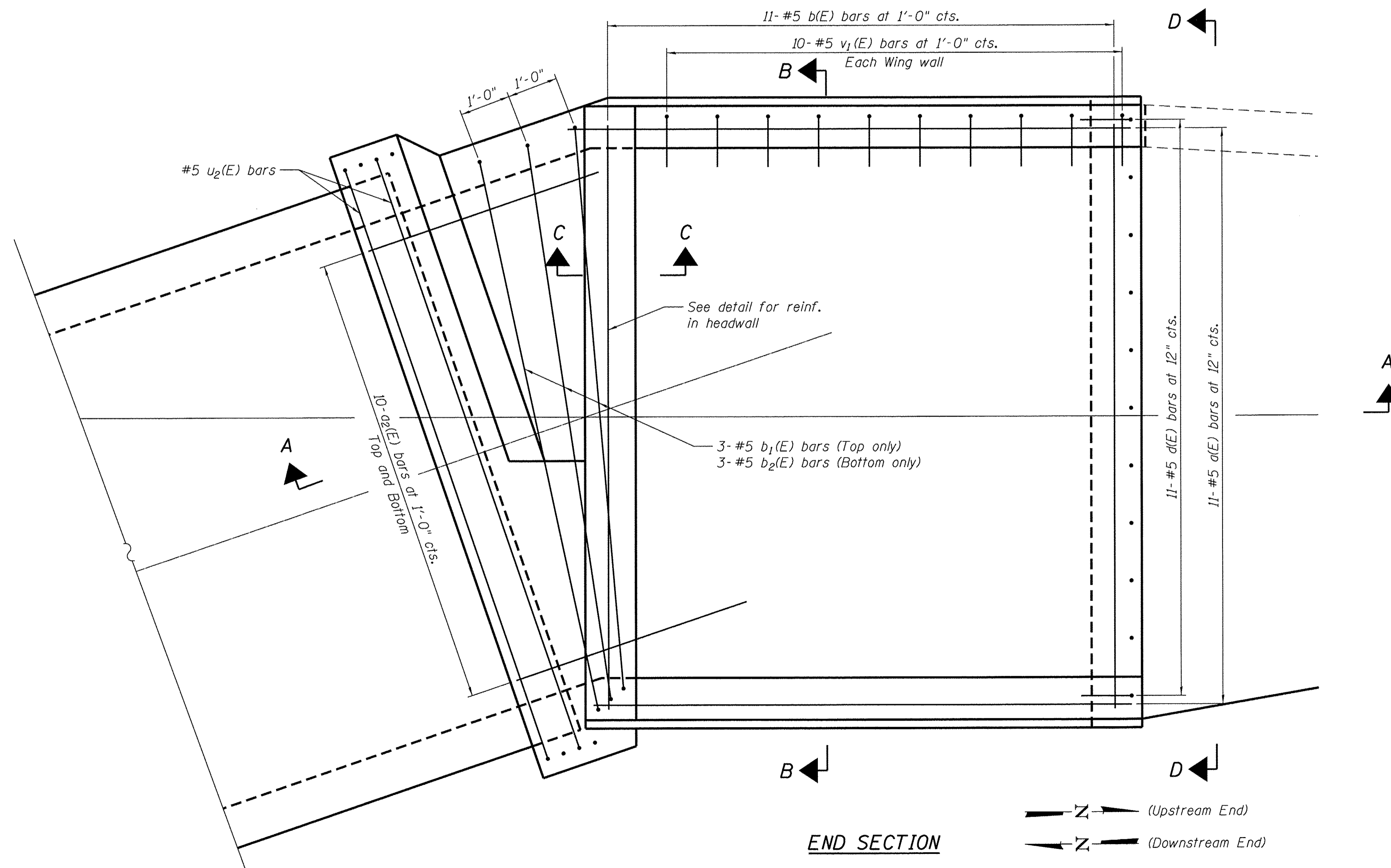
SHEET NO. 3 OF 7 SHEETS

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CONTRACT NO. 41831				
ILLINOIS FED. AID PROJECT				

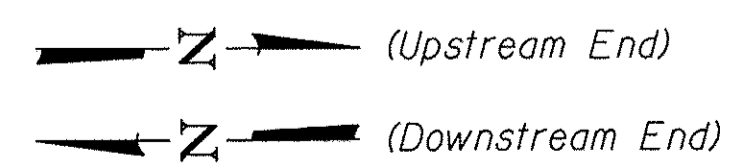


SECTION A-A

* Cut h_1 bar, move v_1 bar to clear 12" RCP SW wing wall only. Include 4-#4 h_3 bars SW wing wall only.



END SECTION



HRG PROJECT NO.: 8650350
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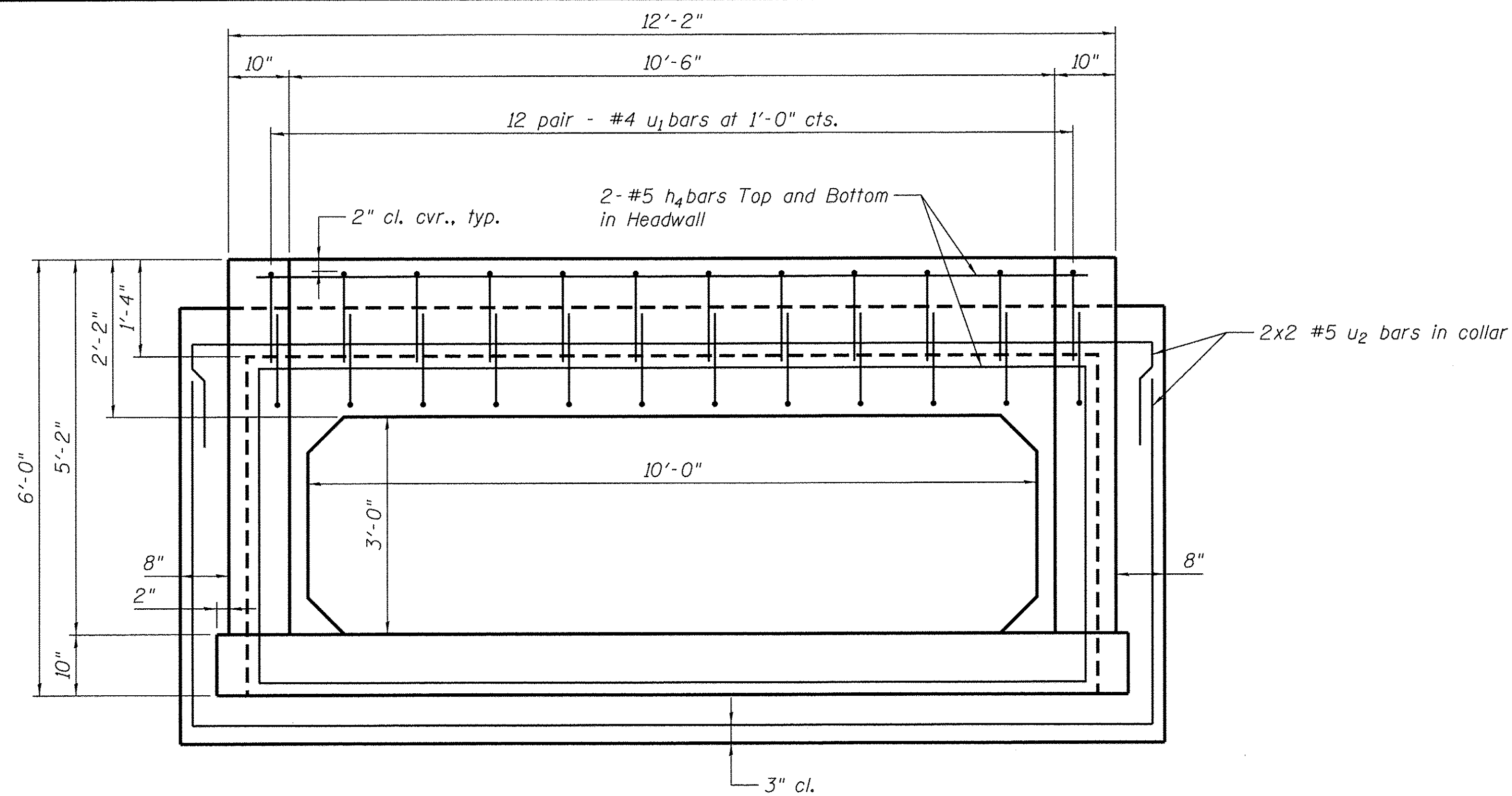
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PLOT DATE = 12/22/2016	CHECKED - 12/22/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

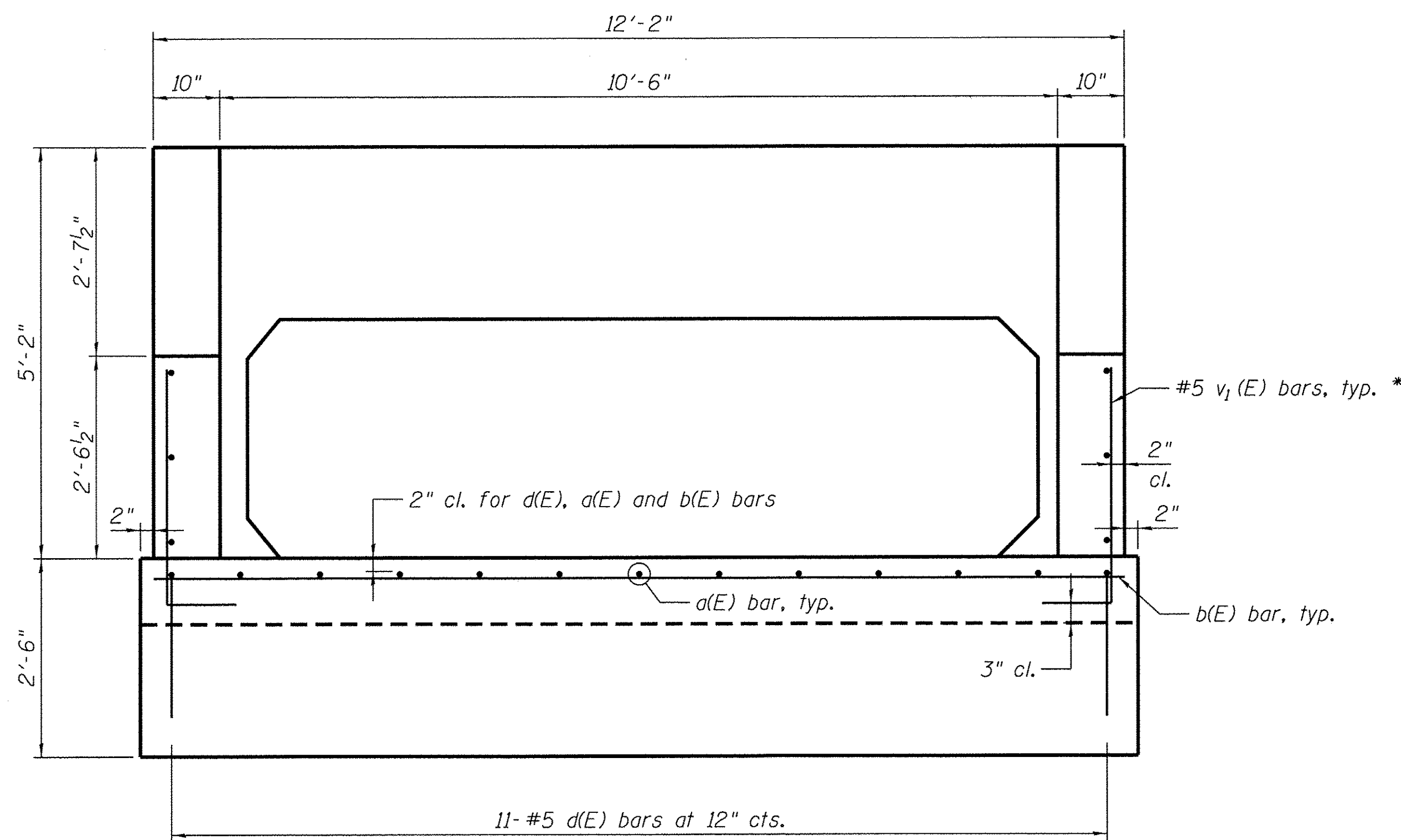
CULVERT END SECTION REINFORCEMENT
CHURCH STREET

SHEET NO. 4 OF 7 SHEETS

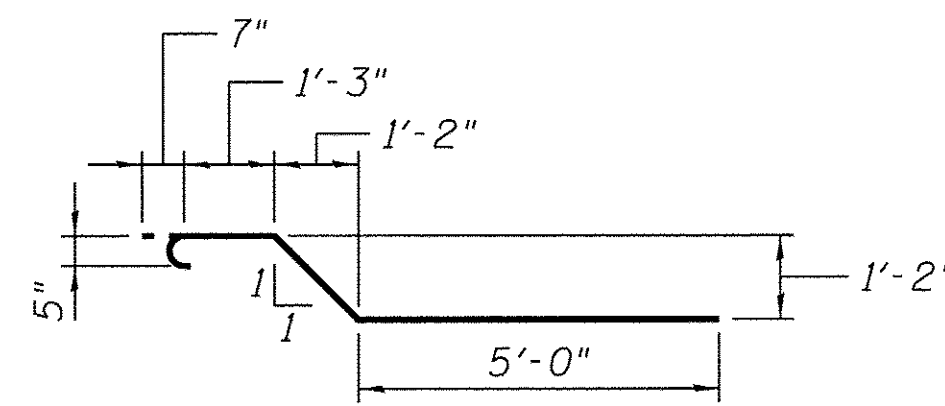
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CONTRACT NO. 61831				
ILLINOIS FED. AID PROJECT				



SECTION B-B

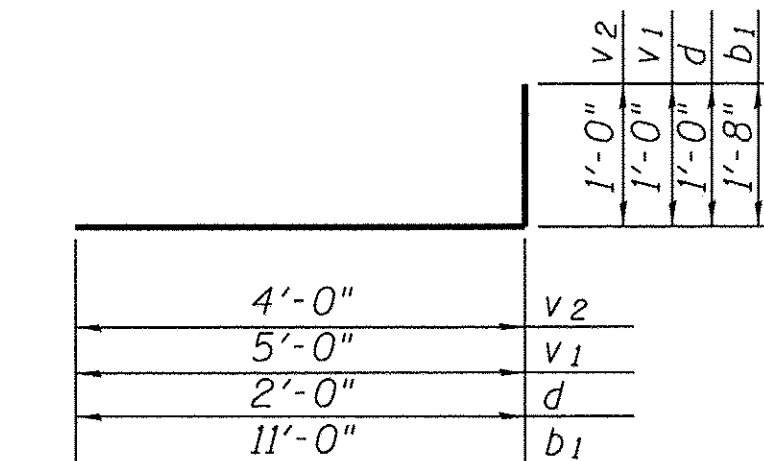


SECTION D-D



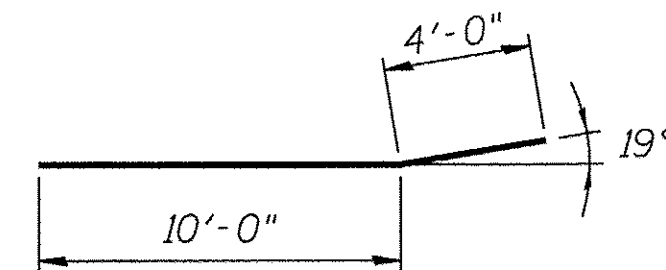
BAR a₂(E)

* Trim 5'-0" end to fit (top only)

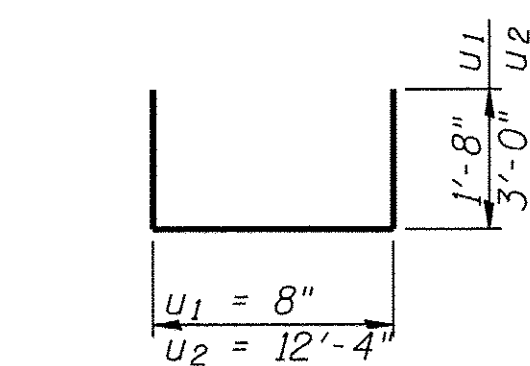


BAR b₁(E), d(E), v₁(E), v₂(E)

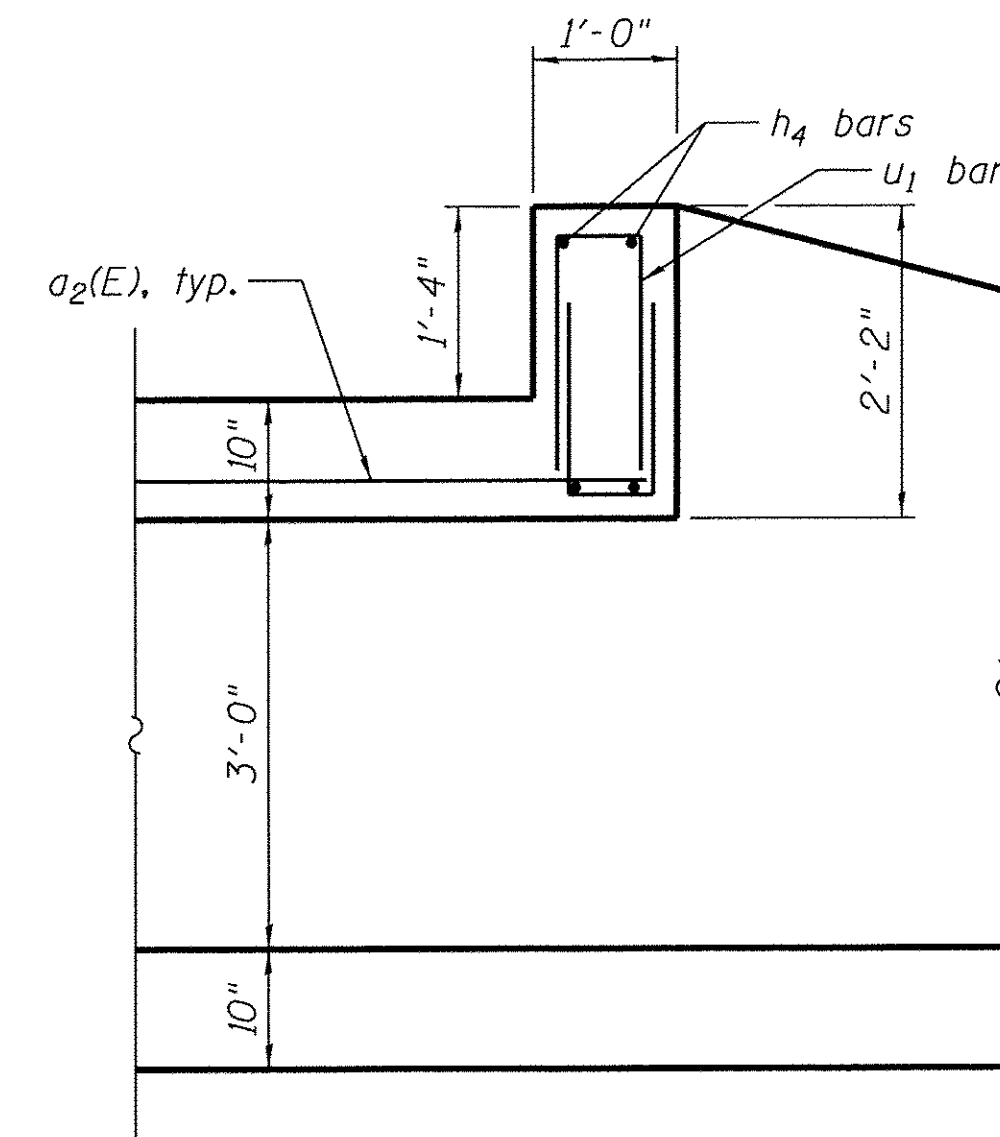
* Trim v₁(E) bars to fit



BAR h₁(E)



BAR u₁(E) & u₂(E)



SECTION C-C

BILL OF BARS

Two Box Culvert End Sections

Bar	No.	Size	Length	Shape
a (E)	22	#5	11'- 0"	—
a ₂ (E)	40	#5	8'- 6"	⌋
b (E)	22	#5	12'- 2"	—
b ₁ (E)	6	#5	12'- 8"	⌋
b ₂ (E)	6	#5	11'- 0"	—
d (E)	22	#5	3'- 0"	⌋
h (E)	0	#5	0"	—
h ₁ (E)	6	#5	14'- 0"	⌋
h ₂ (E)	4	#5	10'- 6"	—
h ₃ (E)	4	#5	4'- 0"	—
h ₄ (E)	8	#5	12'- 6"	—
h ₅ (E)	0	#5	0"	—
h ₆ (E)	6	#4	10'- 6"	—
u ₁ (E)	48	#4	3'- 0"	⌋
u ₂ (E)	8	#5	18'- 4"	⌋
v ₁ (E)	40	#5	6'- 0"	⌋
v ₂ (E)	10	#5	5'- 0"	⌋
Reinforcement Bars, Epoxy Coated			Pound	1,950
Concrete Structures			CY	18.5

Quantities for information only.
Included under Box Culvert End Sections. Not paid for separately.

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	CHECKED - 12/22/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT END SECTION DETAILS
CHURCH STREET**

SHEET NO. 5 OF 7 SHEETS

F.A.U. RTE. 8500	SECTION 15-00013-00-PV	COUNTY MCHENRY	TOTAL SHEETS 95	SHEET NO. 52
				CONTRACT NO. 61031
ILLINOIS FED. AID PROJECT				

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Pedestrian Rail (Special).

Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.

If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.

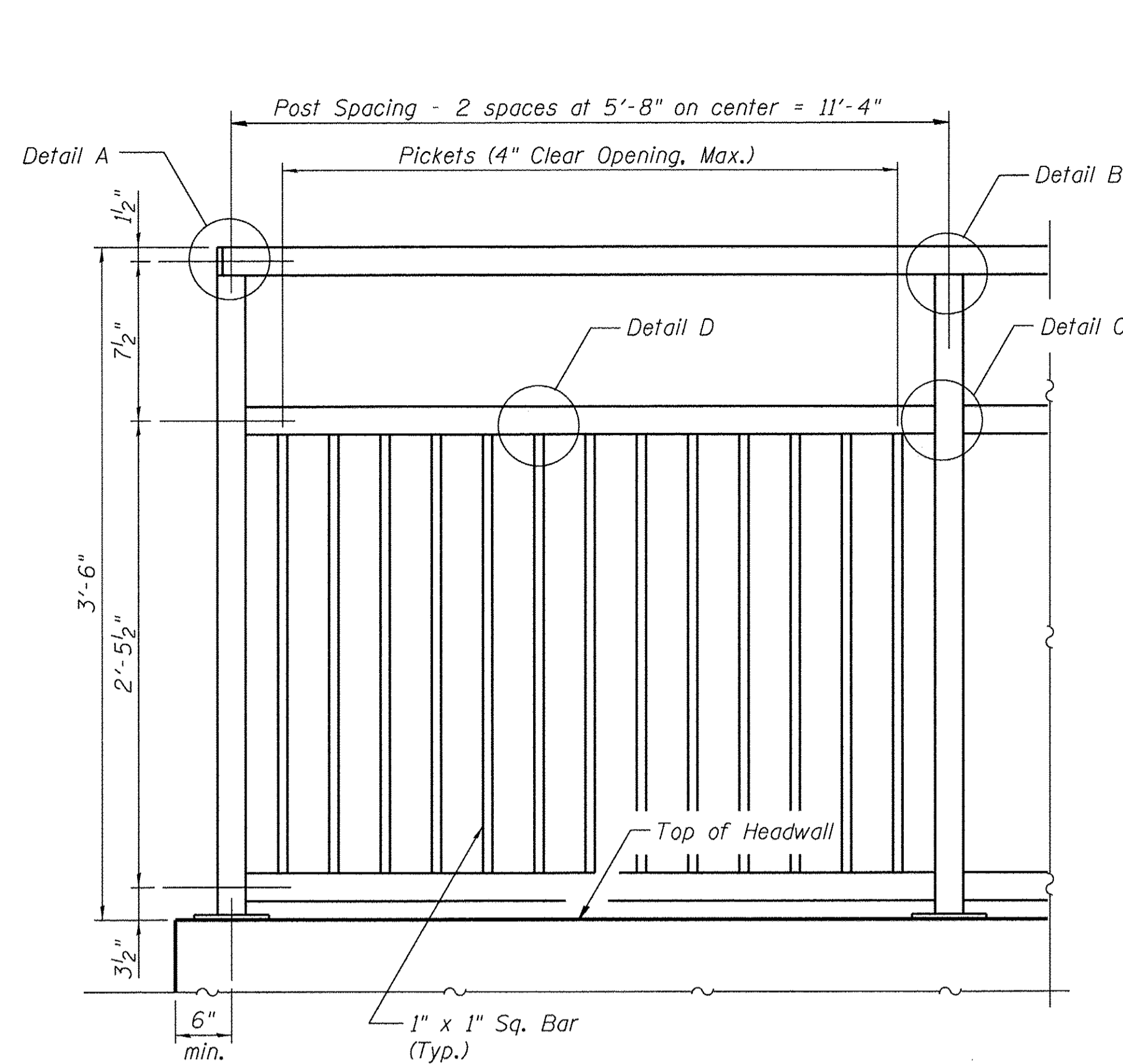
Space reinforcement to miss anchor rods.

All post, railing, pickets, and anchor devices shall be powder coated black. The powder coating system to be used shall be approved by the engineer prior to the coating process.

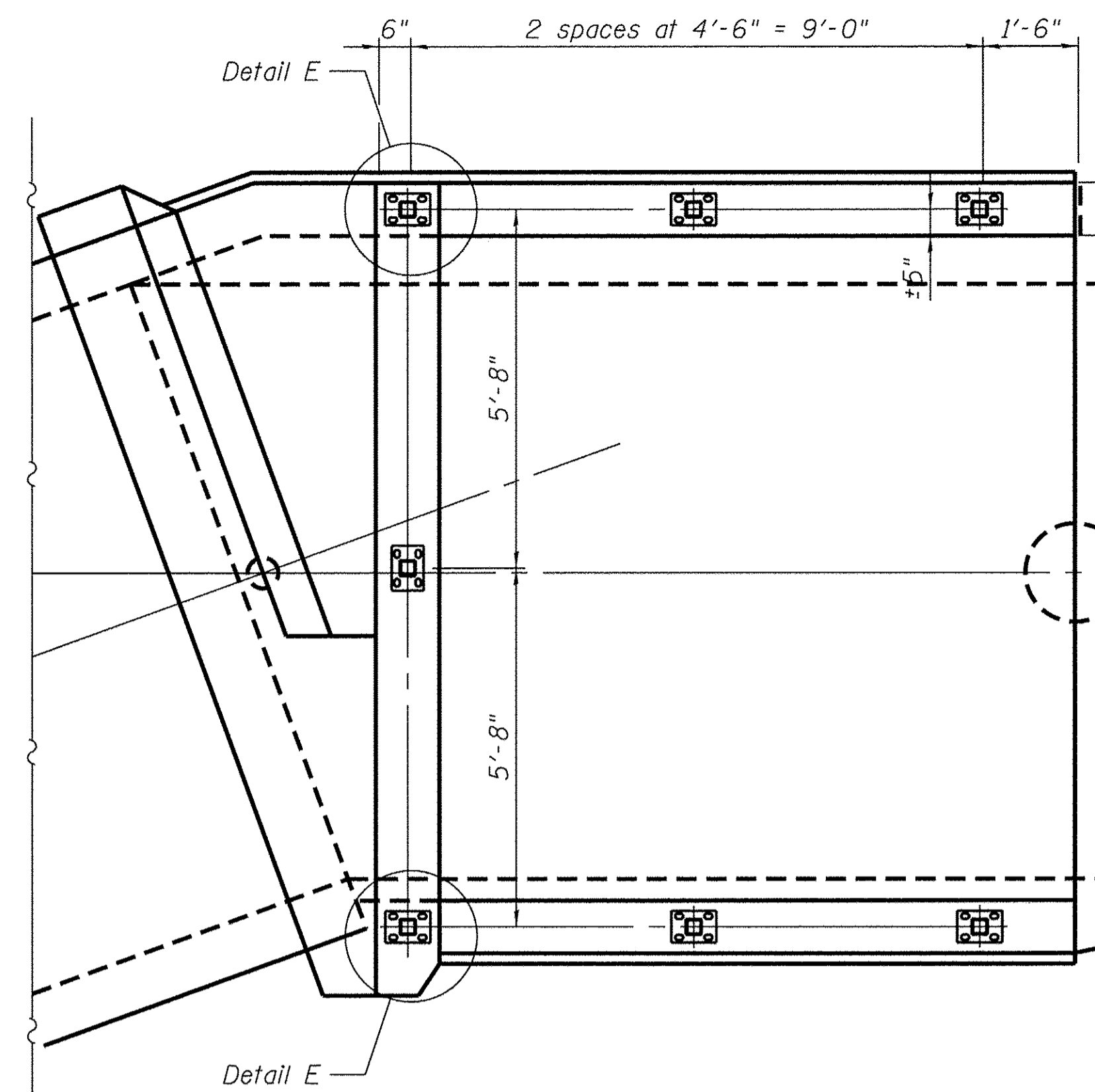
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting $\frac{5}{8}$ " ϕ anchor rods. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

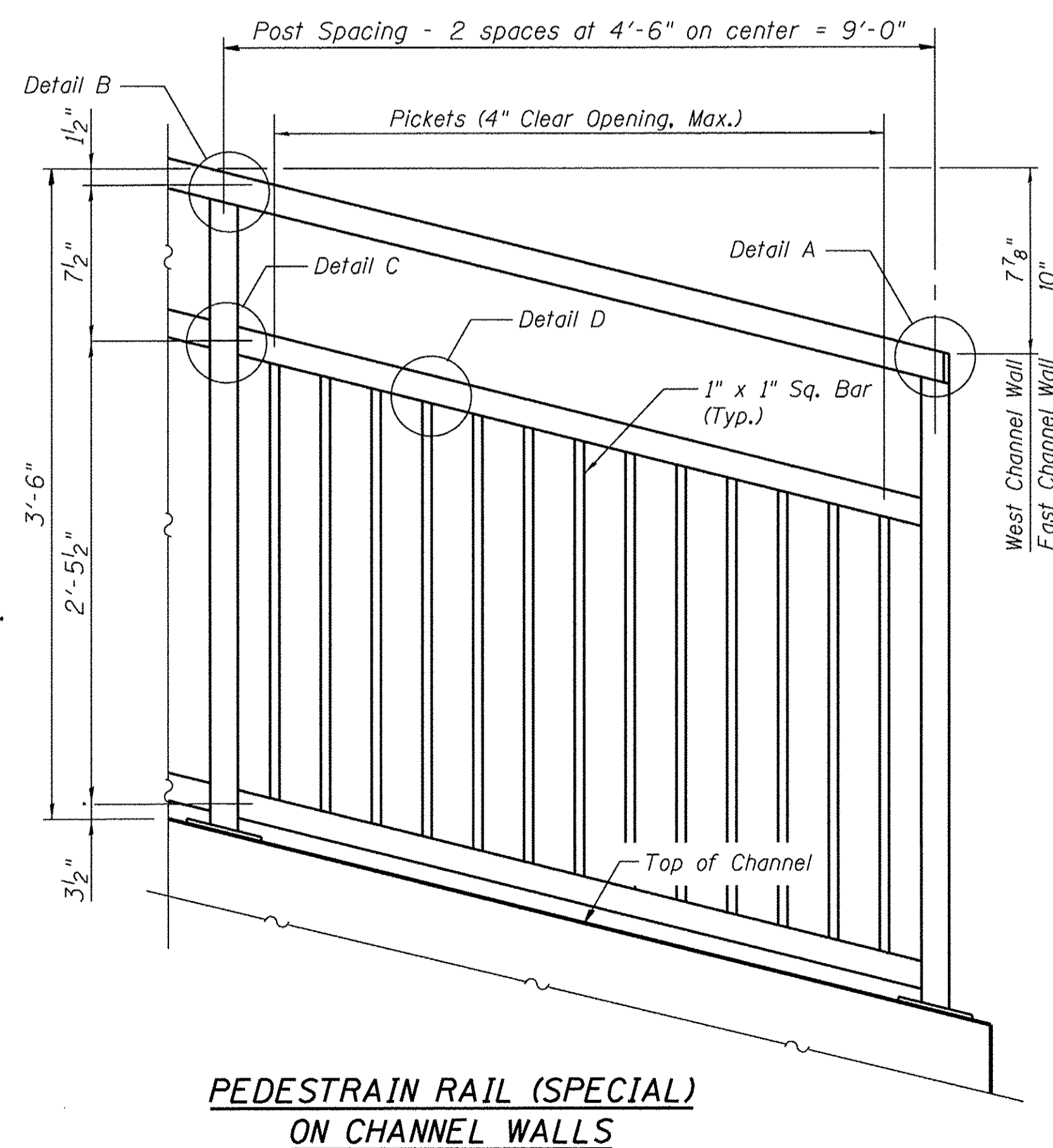
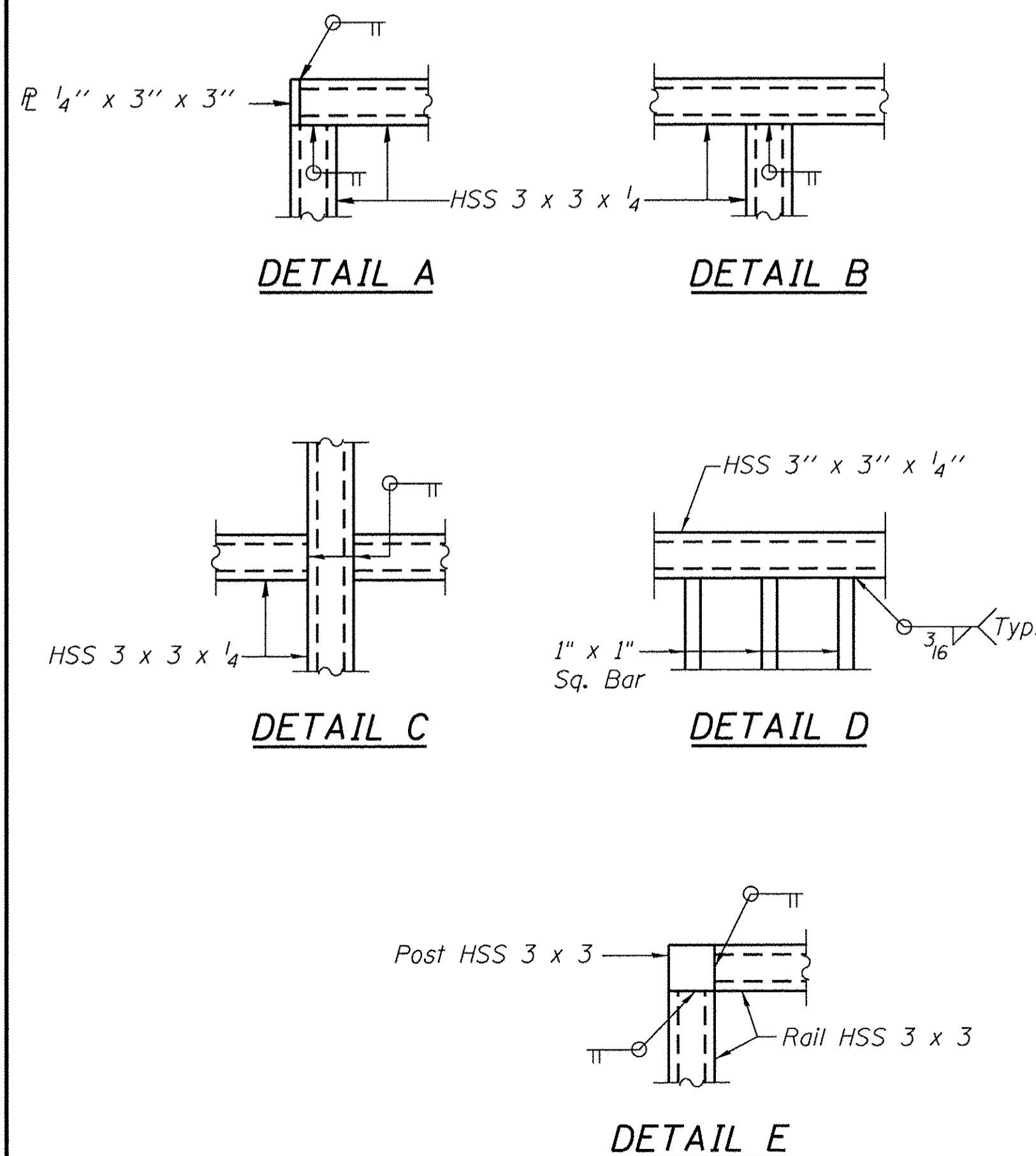
Item	Unit	Quantity
Pedestrian Rail (Special)	Foot	86



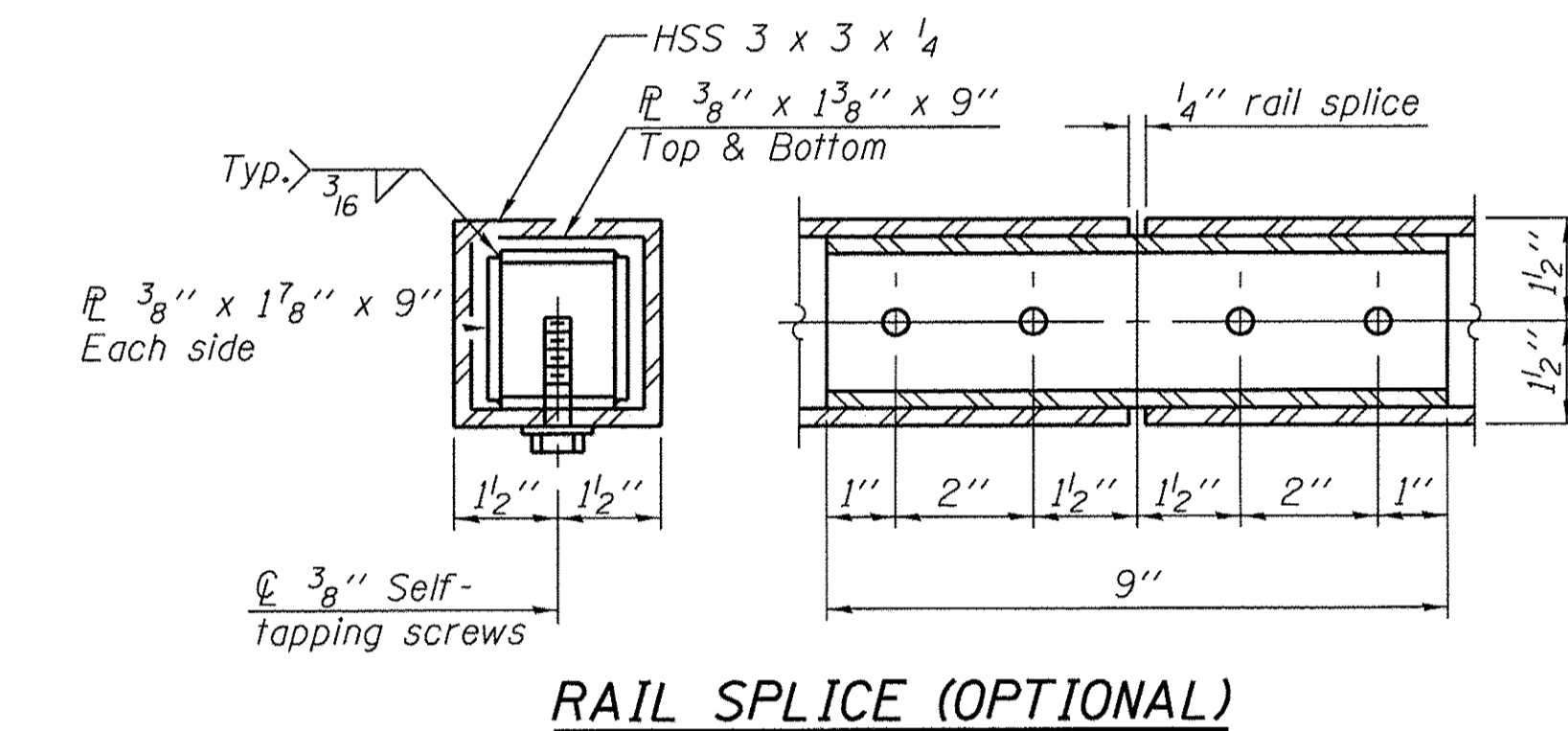
PEDESTRIAN RAIL (SPECIAL)



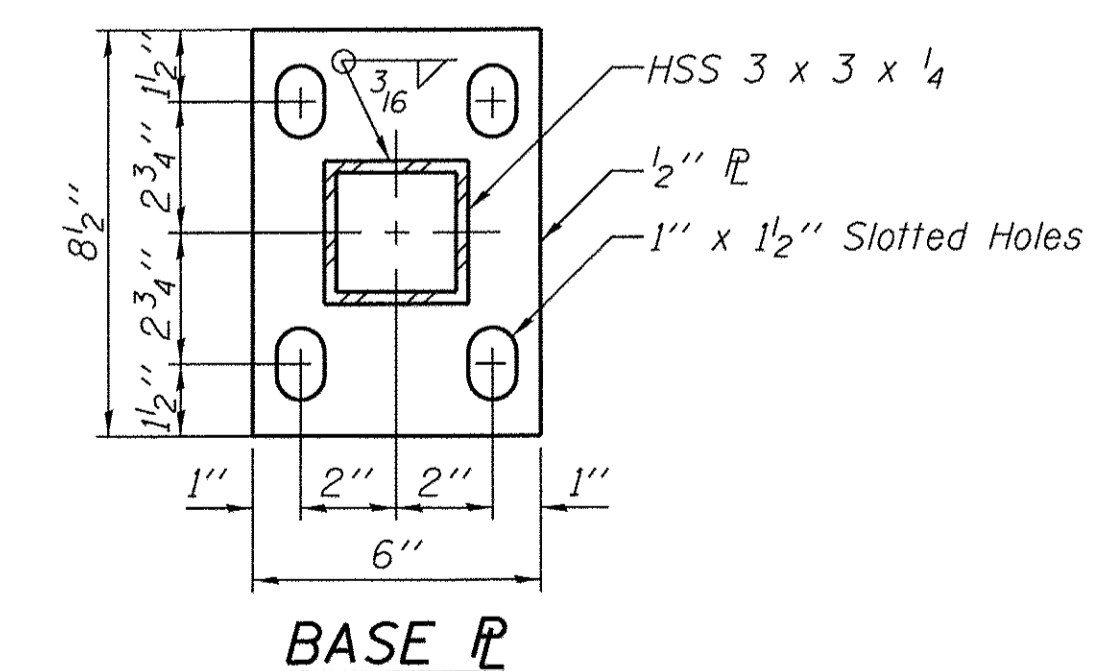
RAILING POST / BASE PLAN



PEDESTRIAN RAIL (SPECIAL) ON CHANNEL WALLS



RAIL SPLICE (OPTIONAL)



BASE PLAN

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT END SECTION - RAILING DETAILS
CHURCH STREET

SHEET NO. 6 OF 7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	53
CONTRACT NO. 6131				
ILLINOIS FED. AID PROJECT				

MSET PROJECT NO.: 15632		LOG OF BORING NO. SB-1		Page 1 of 1					
PROJECT: Church Street			SITE LOCATION: Johnsburg, Illinois						
BORING LOCATION: Station 28+25, 38'L			CLIENT: HR Green						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%		Dry Unit Weight, pcf
0		TOPSOIL - Dark Brown CLAY, A-6 (2")	762.0						
		FILL - Dark Brown and Black Clay LOAM, little Gravel, A-6, very stiff	761.8	SS	1	11	16		3.25 (Qp)
		Brown to Brown and Grey Clay LOAM, trace Gravel, A-6, stiff	759.5	SS	2	6	20	102	1.32
5		Brown and Grey Silt LOAM, A-4, moist, slightly dense	756.5	SS	3	7	24		
		Brown and Grey Sandy Clay LOAM, A-2-6, moist to wet, medium dense	754.0	SS	4	10	21		
				SS	5	20	21		
		Grey Silt LOAM, A-4, wet, medium dense	748.5	SS	6	12	22		
		Grey Sandy LOAM with intermittent SAND and GRAVEL seams, A-2-4, wet, slightly dense	744.0	SS	7	4	10		
				SS	8	5	10		
25		End of Boring at 25'	737.0						

WATER LEVEL OBSERVATIONS, ft.
 DURING DRILLING: 6.0'
 IMMEDIATELY AFTER DRILLING: Moist at
 DELAYED READING AFTER: bottom



BORING STARTED: 12/16/15
 BORING COMPLETED: 12/16/15
 LOGGED BY: GPF
 BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 568 Plate Drive Unit 6, East Dundee, IL 60118 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 15632		LOG OF BORING NO. SB-2		Page 1 of 1					
PROJECT: Church Street			SITE LOCATION: Johnsburg, Illinois						
BORING LOCATION: Station 28+10, 17'R			CLIENT: HR Green						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%		Dry Unit Weight, pcf
0		Bituminous Concrete (2")	762.5						
		FILL - Dark Brown and Black Clay LOAM, little Gravel, A-6, moist, firm	762.3	SS	1	2	14	114	0.74
		Black CLAY, A-7-6, stiff	759.0	SS	2	6	24	92	1.03
5		Brown Clay LOAM, trace Gravel, A-6, very stiff	757.0	SS	3	9	21	100	2.06
		Brown SAND (f-m), A-3	755.0						
		Brown and Grey Silt LOAM, A-4, slightly dense	754.0	SS	4	7	19	107	
		intermittent SAND seams, wet		SS	5	7	23		
		Brown fine SAND, A-3, wet	749.5	SS	6	7	26		
		Brown Sandy LOAM with intermittent SAND and GRAVEL seams, trace Gravel, A-2-4, wet, medium dense to slightly dense	744.0	SS	7	16	17		
				SS	8	7	12		
25		End of Boring at 25'	737.5						

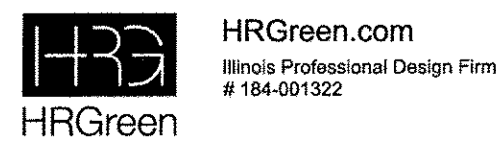
WATER LEVEL OBSERVATIONS, ft.
 DURING DRILLING: 11.0'
 IMMEDIATELY AFTER DRILLING: 12.4'
 DELAYED READING AFTER:



BORING STARTED: 12/16/15
 BORING COMPLETED: 12/16/15
 LOGGED BY: GPF
 BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 568 Plate Drive Unit 6, East Dundee, IL 60118 (847) 844-1895 f(847) 844-3875

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	CHECKED - 12/22/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
 CHURCH STREET

SHEET NO. 7 OF 7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	54
CONTRACT NO. 61031				
ILLINOIS FED. AID PROJECT				






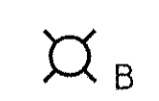
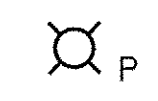
GENERAL NOTES

1. THIS PROJECT INCLUDES THE INSTALLATION OF A NEW ORNAMENTAL LIGHTING SYSTEM ALONG CHURCH ST. FROM SPRING GROVE RD. TO JOHNSBURG RD. AND ALSO ALONG ST. JOHNS AVE. THE PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE VILLAGE OF JOHNSBURG.
2. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK. THE FIELD CONTACT PERSON IS MICHAEL PERRON AT (815) 477-5204. THE ACCOUNT NUMBER IS 1884060030.
3. THE QUANTITIES OF RACEWAY WHEREVER INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
4. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
5. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF JOHNSBURG AND McHENRY COUNTY TO LOCATE AND MARK ALL VILLAGE AND COUNTY OWNED UNDERGROUND UTILITIES.
6. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING DIGGING WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION ACTIVITIES.
7. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
8. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
9. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
10. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
11. GROUND RODS SHALL BE INSTALLED AT EACH LIGHTING UNIT PER SHEET LT-7.

BILL OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1071
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3/4" DIA.	FOOT	7622
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	7622
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0	FOOT	50
LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP	EACH	1
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	513
ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	57

LEGEND

-  UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 4 GROUND (XLP-TYPE USE) 1 1/4" DIA. POLYTHYLENE
-  ELECTRIC CABLE IN CONDUIT 3-1/C #1/0 (XLP- TYPE USE)
-  UTILITY SERVICE CONNECTION, POLE MOUNTED.
-  LIGHTING CONTROLLER, 120/240V 1Ø, 3 WIRE, 200A, BASE MOUNTED
-  UNDERGROUND RIGID GALVANIZED STEEL CONDUIT (TO BE INSTALLED UNDER PAVEMENT)
-  ORNAMENTAL LIGHT UNIT WITH BANNER, 18'-7" MH, 2 FT MA, 100W METAL HALIDE LUMINAIRE WITH RECEPTACLES
-  ORNAMENTAL LIGHT UNIT WITH PLANTER, 18'-7" MH, 2 FT MA, 100W METAL HALIDE LUMINAIRE WITH RECEPTACLES

DATE	BY	SURVEYED	ALIGNED	CHECKED
		PLAN	NOTE BOOK	NO.

DATE	BY	SURVEYED	GRADES	CHECKED
		PROFILE	NOTE BOOK	NO.

HRG PROJECT NO.: #PROJECTNO#
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 FILE NAME: #FILES#
 PLOT DRIVER: #PLT_DRV#
 PEN TABLE: #PEN_TABLE#

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 5413 Walnut Avenue, Ste 2
 Downers Grove, IL 60515

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

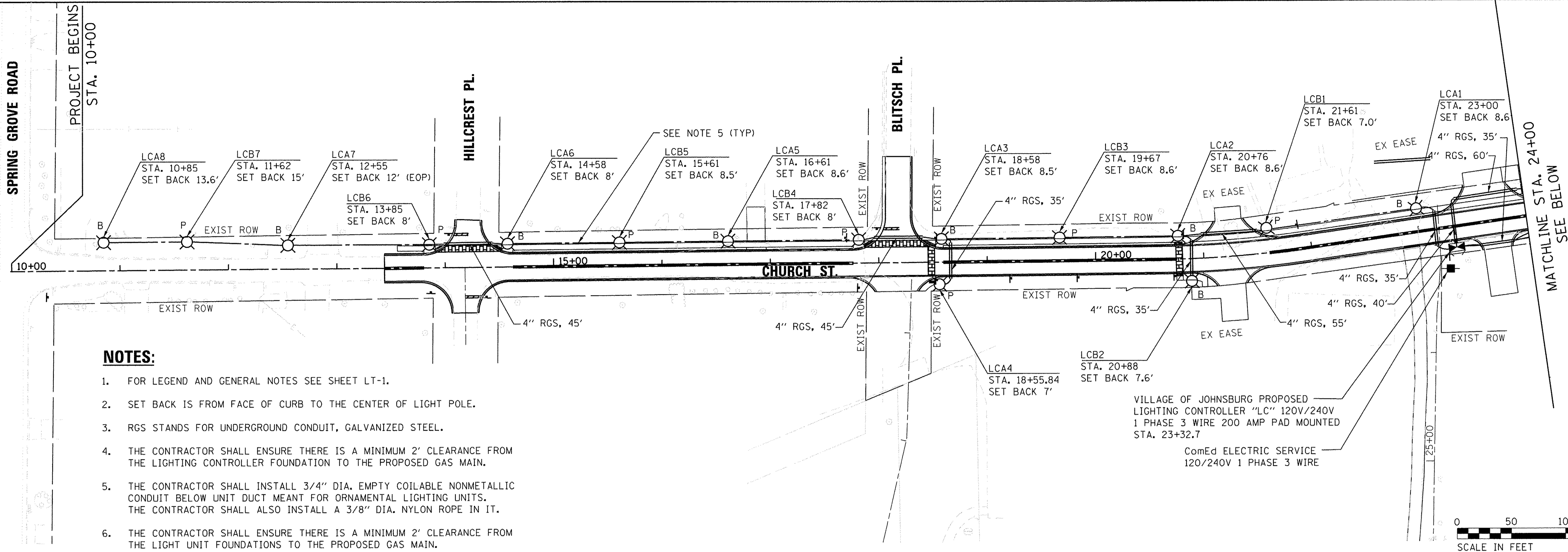
**GENERAL NOTES, LEGEND AND BILL OF MATERIALS
 CHURCH STREET AND ST. JOHNS AVE.**

SCALE: #SCALE# SHEET #SHEET# OF #SHEETS# STA. #START# TO STA. #END#

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	IS-00013-00-PV	McHENRY	95	55
CONTRACT NO. 61D31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)	

LT-1

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	DATE	
	NO. OF WAY CHECKED	
	PAID FILE NAME	
	NO.	

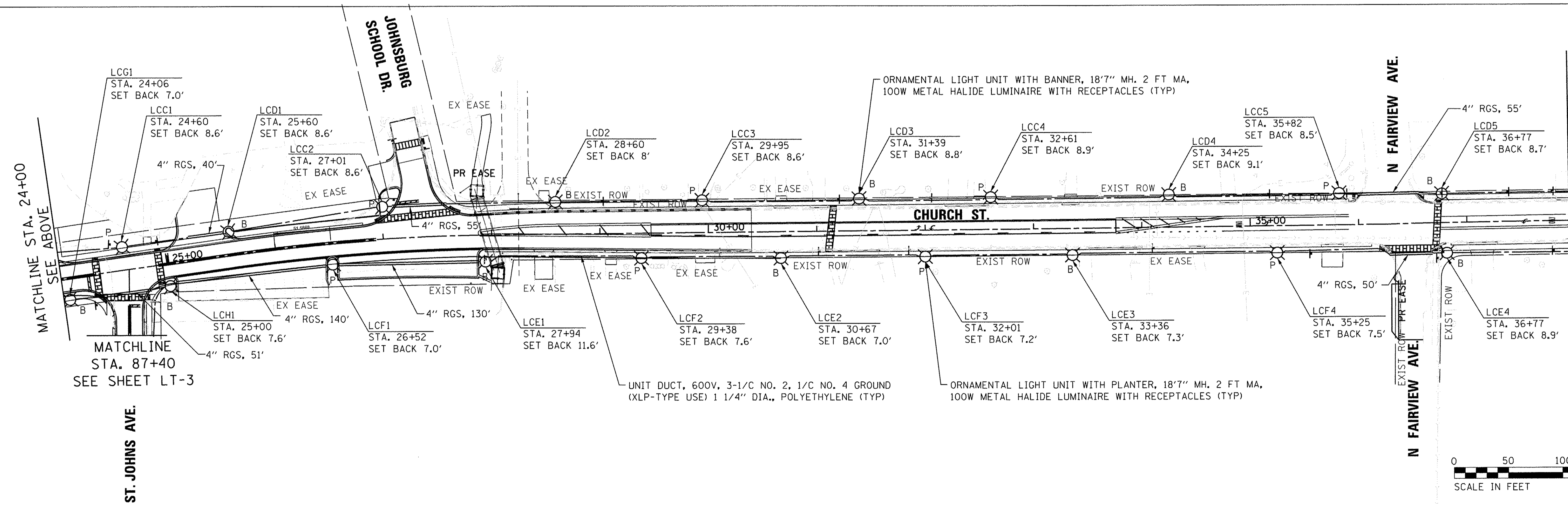


NOTES:

- FOR LEGEND AND GENERAL NOTES SEE SHEET LT-1.
- SET BACK IS FROM FACE OF CURB TO THE CENTER OF LIGHT POLE.
- RGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
- THE CONTRACTOR SHALL ENSURE THERE IS A MINIMUM 2' CLEARANCE FROM THE LIGHTING CONTROLLER FOUNDATION TO THE PROPOSED GAS MAIN.
- THE CONTRACTOR SHALL INSTALL 3/4" DIA. EMPTY COILABLE NONMETALLIC CONDUIT BELOW UNIT DUCT MEANT FOR ORNAMENTAL LIGHTING UNITS. THE CONTRACTOR SHALL ALSO INSTALL A 3/8" DIA. NYLON ROPE IN IT.
- THE CONTRACTOR SHALL ENSURE THERE IS A MINIMUM 2' CLEARANCE FROM THE LIGHT UNIT FOUNDATIONS TO THE PROPOSED GAS MAIN.

VILLAGE OF JOHNSBURG PROPOSED LIGHTING CONTROLLER "LC" 120V/240V 1 PHASE 3 WIRE 200 AMP PAD MOUNTED STA. 23+32.7
ComEd ELECTRIC SERVICE 120/240V 1 PHASE 3 WIRE

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	DATE	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	



UNIT DUCT, 600V, 3-1/2" NO. 2, 1/2" NO. 4 GROUND (XLP-TYPE USE) 1 1/4" DIA., POLYETHYLENE (TYP)

ORNAMENTAL LIGHT UNIT WITH PLANTER, 18"7" MH. 2 FT MA, 100W METAL HALIDE LUMINAIRE WITH RECEPTACLES (TYP)

AMES Engineering, Inc.
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Downers Grove, IL 60515

USER NAME = #USER#	DESIGNED - BL	REVISED - \$REV1DATE\$
PLOT SCALE = \$SCALE\$	DRAWN - RV/MD	REVISED - \$REV2DATE\$
PLOT DATE = \$DATE\$	CHECKED - MB	REVISED - \$REV3DATE\$
	DATE - 12-05-16	REVISED - \$REV4DATE\$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
CHURCH STREET AND ST. JOHNS AVE.

SCALE: \$SCALE\$ SHEET NO. \$TECH3\$ SHEETS STA. \$TITLE4\$ TO STA. \$TITLE5\$

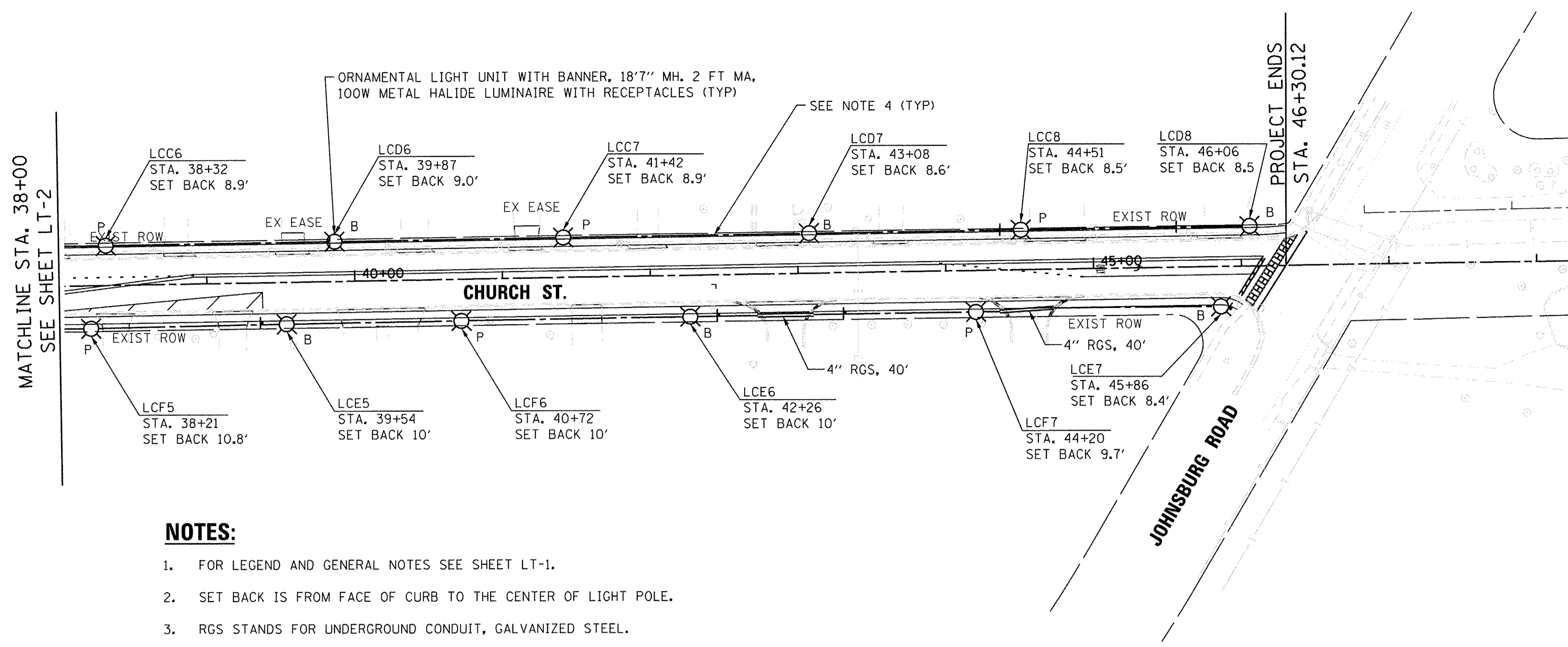
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8500	15-00013-00-PV	MCHEMRY	95	56
				CONTRACT NO. 61D31
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

HRG PROJECT NO.: #PROJECT#
HRG PROJ CONTACT: #RCP#
FILE NAME: #FILES#
PLOT DRIVER: #PLT.DRV#
PEN TABLE: #PEN.TABLE#

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO.	

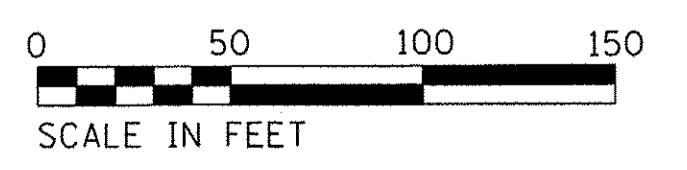
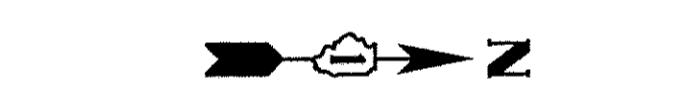
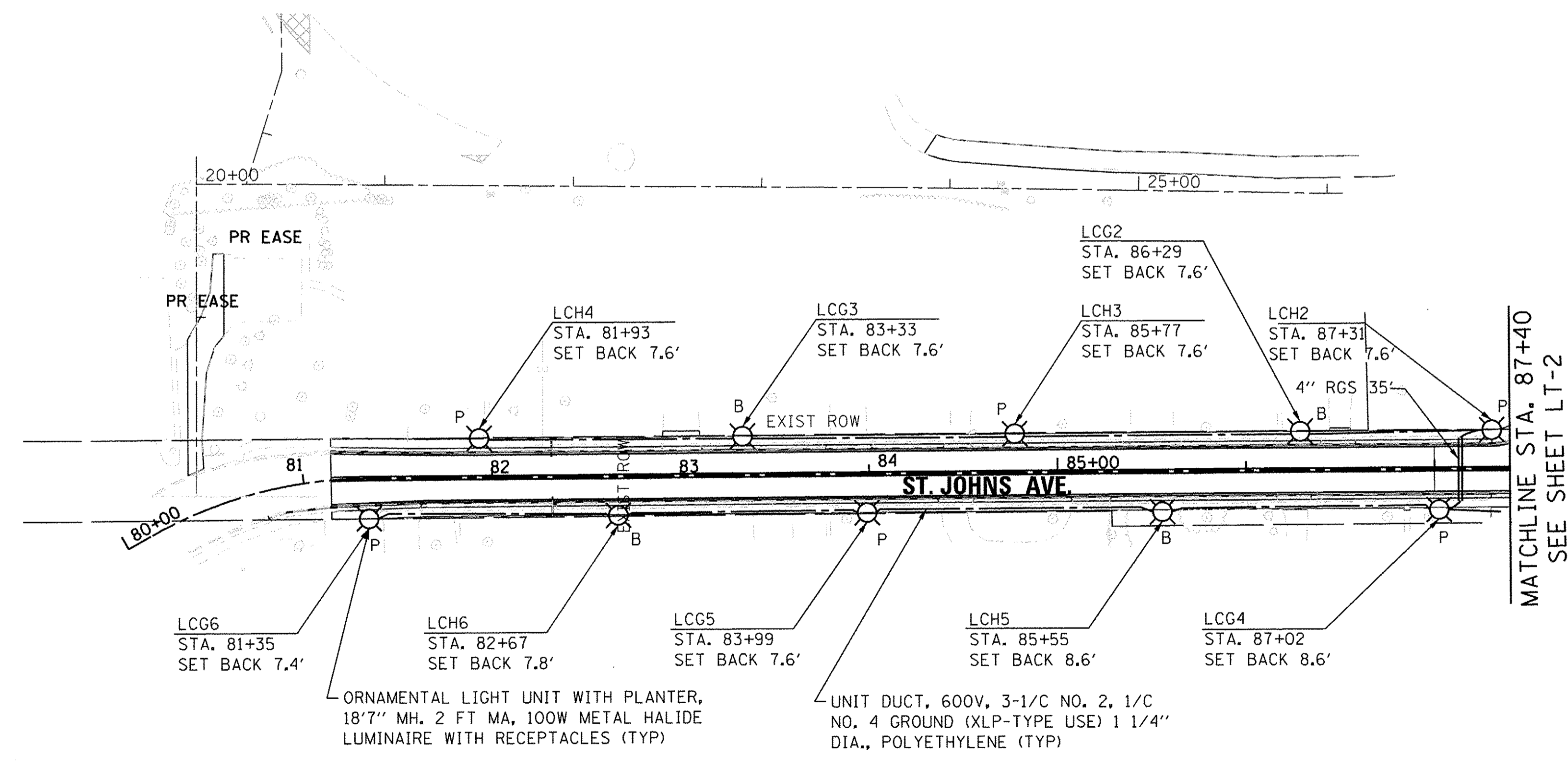
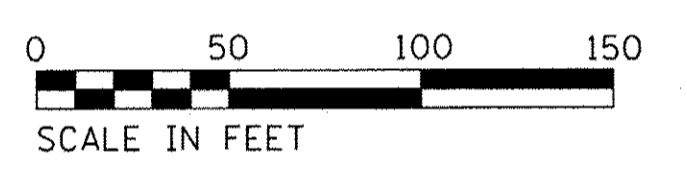
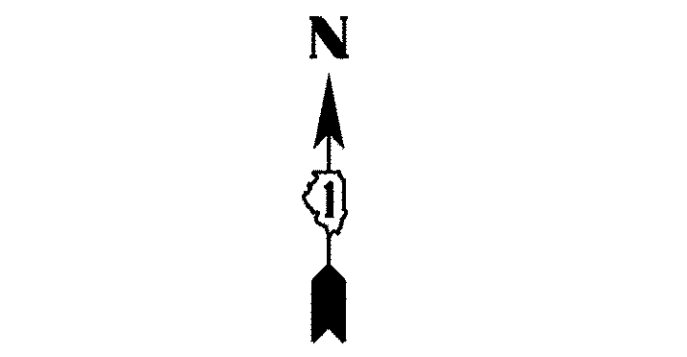
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	PLOTTED	
	NOTED	
	BY	
	NO.	

HRG PROJECT NO.: #PROJECT#
 HRG PROJ CONTACT: #HRG#
 PLOT DRAWER: #PLOT#
 PLOT DATE: #DATE#
 PER TABLE: #TABLE#



NOTES:

- FOR LEGEND AND GENERAL NOTES SEE SHEET LT-1.
- SET BACK IS FROM FACE OF CURB TO THE CENTER OF LIGHT POLE.
- RGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
- THE CONTRACTOR SHALL INSTALL 3/4" DIA. EMPTY COILABLE NONMETALLIC CONDUIT BELOW UNIT DUCT MEANT FOR ORNAMENTAL LIGHTING UNITS. THE CONTRACTOR SHALL ALSO INSTALL 3/8" NYLON ROPE IN IT.
- THE CONTRACTOR SHALL ENSURE THERE IS A MINIMUM 2' CLEARANCE FROM THE LIGHT UNIT FOUNDATIONS TO THE PROPOSED GAS MAIN.



LT-3

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USER NAME = #USER#	DESIGNED - BL	REVISED - #REV1DATE#
PLOT SCALE = #SCALE#	DRAWN - RV/MD	REVISED - #REV2DATE#
PLOT DATE = #DATE#	CHECKED - MB	REVISED - #REV3DATE#
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

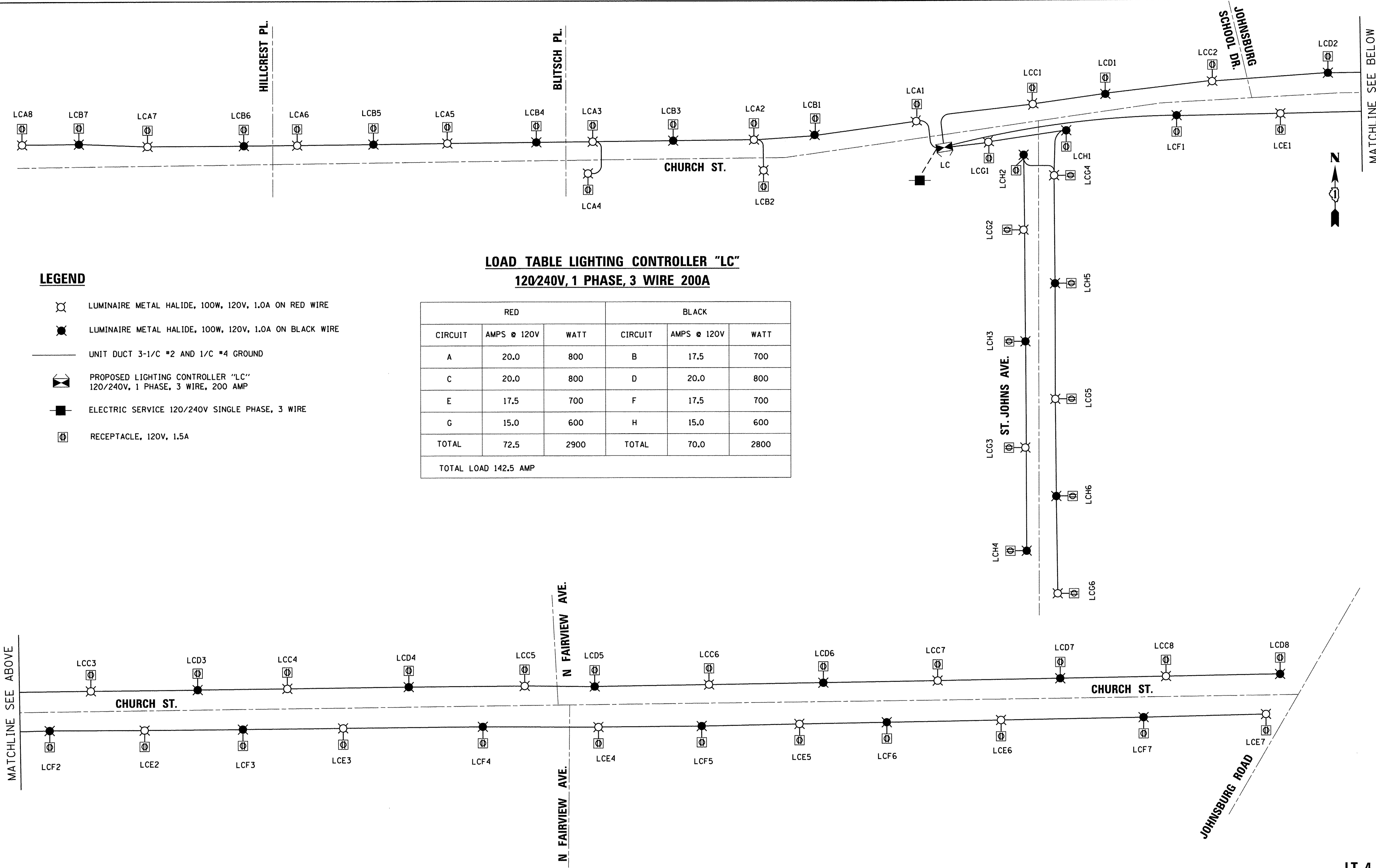
PROPOSED LIGHTING PLAN	
CHURCH STREET AND ST. JOHNS AVE.	
SCALE: #SCALE#	SHEET NO. #TECH# OF #TECH# SHEETS
STA. #TITLE4#	TO STA. #TITLE5#

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	McHENRY	95	57
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
FILED	
NO.	

DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
FILED	
NO.	

PROJECT NO.: #PROJECTNO#
 HRC PROJ CONTACT: #HRC#
 FILE NAME: #FILES#
 PLOT DRIVER: #PLT.DRV#
 PEN TABLE: #PEN.TABLE#



LEGEND

- LUMINAIRE METAL HALIDE, 100W, 120V, 1.0A ON RED WIRE
- LUMINAIRE METAL HALIDE, 100W, 120V, 1.0A ON BLACK WIRE
- UNIT DUCT 3-1/C #2 AND 1/C #4 GROUND
- PROPOSED LIGHTING CONTROLLER "LC"
120/240V, 1 PHASE, 3 WIRE, 200 AMP
- ELECTRIC SERVICE 120/240V SINGLE PHASE, 3 WIRE
- RECEPTACLE, 120V, 1.5A

LOAD TABLE LIGHTING CONTROLLER "LC"
120/240V, 1 PHASE, 3 WIRE 200A

RED			BLACK		
CIRCUIT	AMPS @ 120V	WATT	CIRCUIT	AMPS @ 120V	WATT
A	20.0	800	B	17.5	700
C	20.0	800	D	20.0	800
E	17.5	700	F	17.5	700
G	15.0	600	H	15.0	600
TOTAL	72.5	2900	TOTAL	70.0	2800
TOTAL LOAD 142.5 AMP					

LT-4

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 5413 Walnut Avenue, Ste 2
 Downers Grove, IL 60515

USER NAME = #USER#	DESIGNED - BL	REVISED - \$REV1DATE\$
PLOT SCALE = #SCALE#	DRAWN - RV/MD	REVISED - \$REV2DATE\$
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

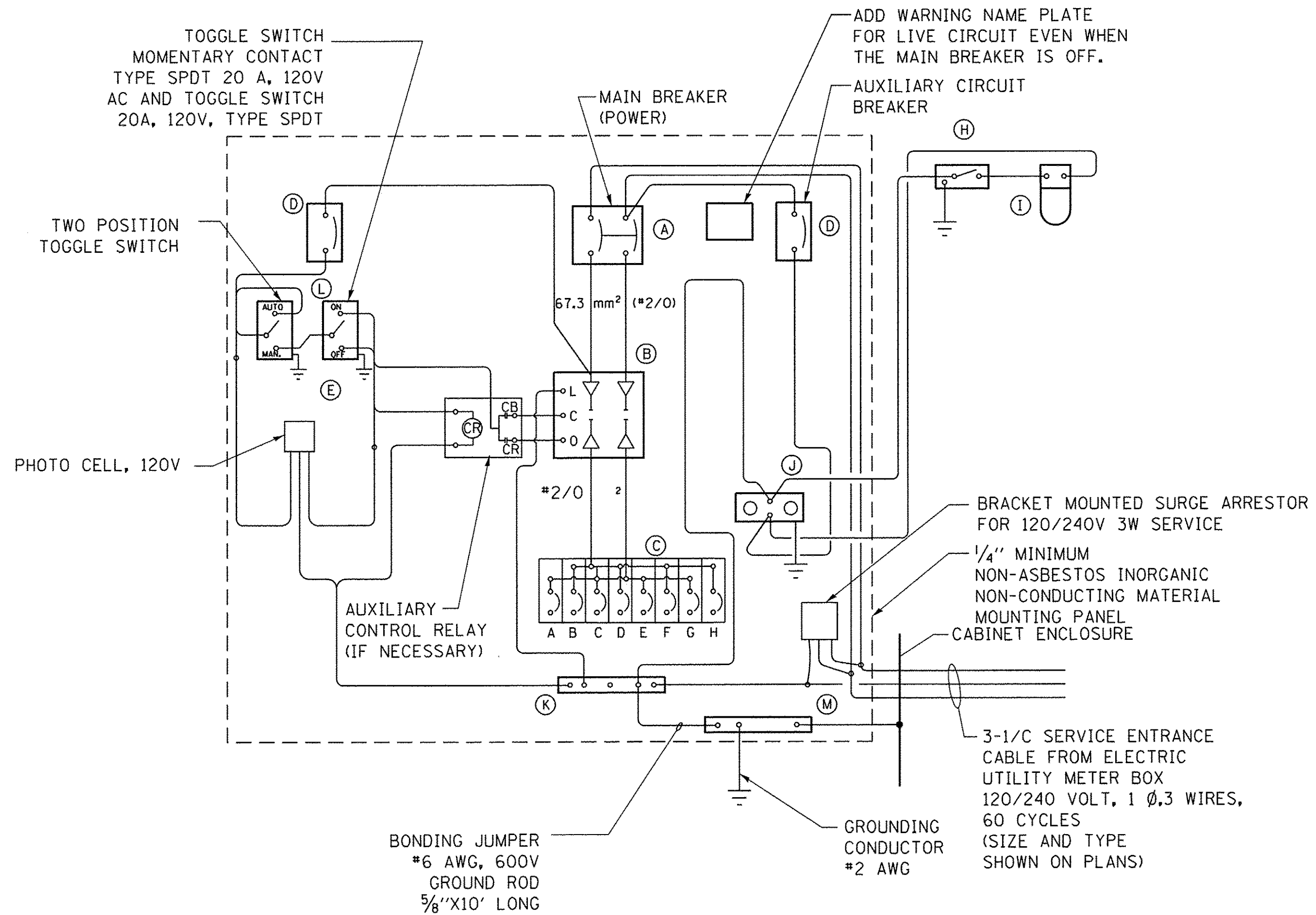
SINGLE LINE WIRING DIAGRAM
CHURCH STREET AND ST. JOHNS AVE.

SCALE: \$SCALE\$ SHEET NO. \$TECH2\$ OF \$TECH3\$ SHEETS STA. \$TITLE4\$ TO STA. \$TITLE5\$

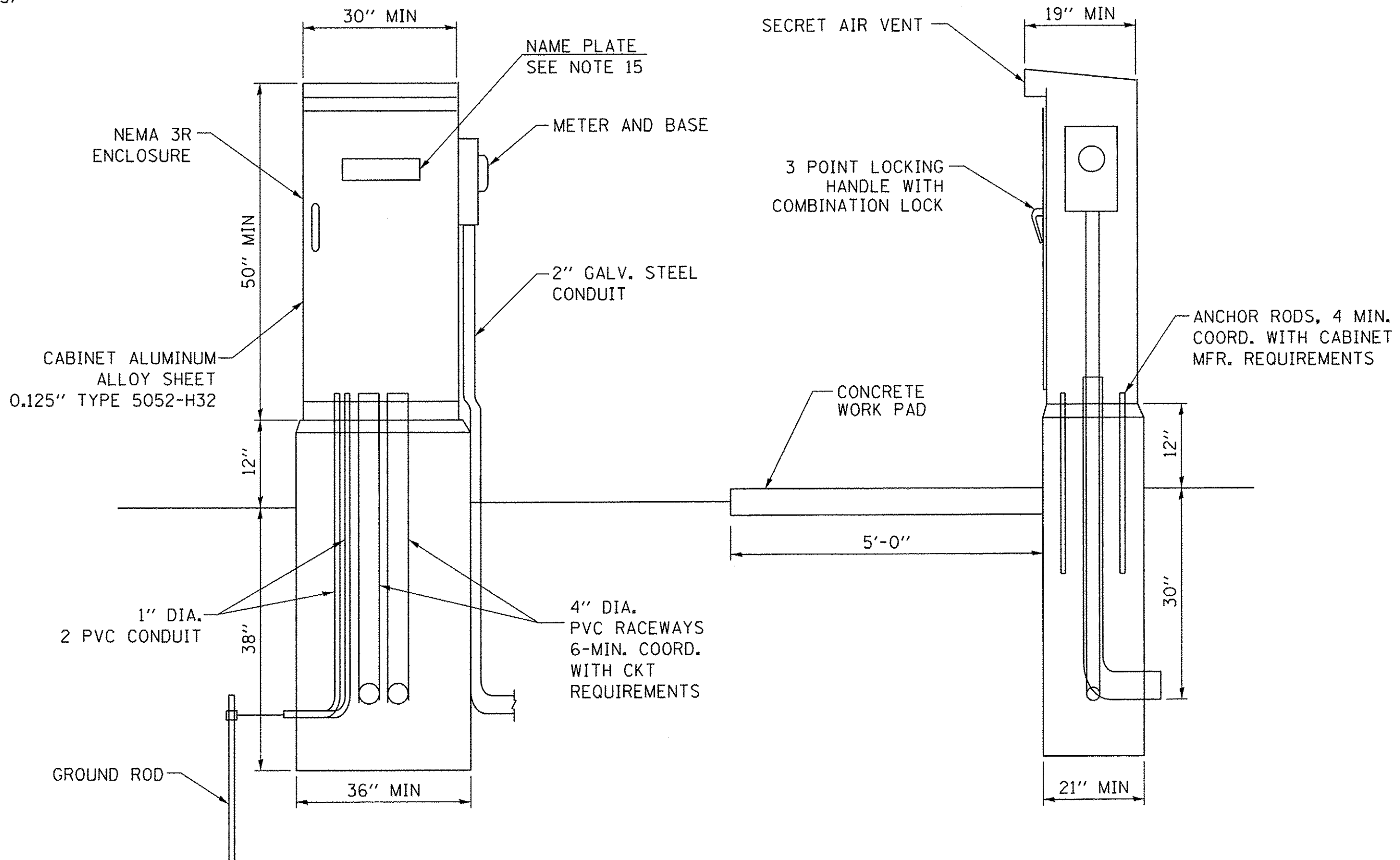
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8500	1S-00013-00-PV	MCHENRY	95	58
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QTY.	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 200AMP. FRAME, 200AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 240 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 200 AMP., 600 VOLTS CONTROL CIRCUITS 240 VOLT, ASCO 920.
C	10	CIRCUIT BREAKERS, 1 POLE, 277V., 100AMP. FRAME 50AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-14,000 AMP. AT 120 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100AMP. FRAME, 15AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-14,000 AMP. AT 120 V.
E	1	PHOTOCCELL, 120V
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER NEUTRAL BUS 6.35 mm (1/4") X 25.4 mm (1") X 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS.
L	1	TOGGLE SWITCHES MOUNTED IN 101.6 mm (4") X 101.6 mm (4") BOX.
M	1	COPPER GROUND BUS 6.35 mm (1/4") X 25.4 (1") 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS.
N	1	SURGE ARRESTOR



WIRING DIAGRAM



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 6,35 mm (1/4") DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 304.8 mm (12") X 406.4 mm (16") STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "VILLAGE OF JOHNSBURG LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- SERVICE DISCONNECT SHOULD HAVE UL LABEL AND THE EQUIPMENT SHOULD BE SUITABLE FOR SERVICE ENTRANCE EQUIPMENT.

DATE	BY

DATE	BY

PROJECT NO.: #PROJECT#
 HRG PROJ CONTACT: #HRGPM#
 FILE NAME: #FILES#
 PLOT DRIVER: #PLT.DRV#
 PEN TABLE: #PEN.TABLE#

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 5413 Walnut Avenue, Ste 2
 Downers Grove, IL 60515

USER NAME = #USER#	DESIGNED - BL	REVISED - #REV1DATE#
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LIGHTING CONTROLLER	
SCALE: #SCALE#	SHEET #JTECH3# SHEETS
STA. #TITLE4#	TO STA. #TITLE5#

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	IS-00013-00-PV	MCHENRY	95	59
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812				

LT-5

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE, AS APPLICABLE.

UTILITY GROUND CONNECTION, (AS APPLICABLE), BY UTILITY

UTILITY GROUND, AS APPLICABLE, (BY UTILITY)

APPROXIMATELY 10'-6" (3.2 m)

APPROX. 6" (150 mm)

GRADE

EXOTHERMIC WELD CONNECTION

UTILITY GROUNDING ELECTRODE (AS APPLICABLE), BY UTILITY

CUSTOMER SERVICE RISER GROUND ELECTRODE 5/8" X 10' (15.875 mm X 3.048 m) COPPERCLAD GROUND ROD (IN UNDISTURBED SOIL) SEE NOTE 5.

GROUND ROD SHALL BE INSTALLED NOT LESS THAN 24" (609 mm) FROM POLE UNLESS APPROVED BY THE ENGINEER

GROUNDING ELECTRODE CONDUCTOR, BARE COPPER, #1/0 AWG. MINIMUM

THREADED TRANSITION COUPLING, AS APPLICABLE (SEE NOTE 6)

PVC COATED RIGID CONDUIT ELBOW 24" (609.6 mm) RADIUS (MIN.) SEE NOTE 3.

30" MIN - 36" MAX (762.0 mm MIN. - 914.0 mm MAX.) TO TOP OF CONDUIT

EXTENSION TO SERVICE EQUIPMENT

HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY (SEE NOTE 6)

PVC-COATED RIGID CONDUIT NIPPLE OR CONDUIT EXTENSION, LENGTH AS REQUIRED

RIGID GALVANIZED THREADED COUPLING.

HEAVY DUTY GROUND CLAMP, UNIVERSAL U-CLAMP TYPE, BY O.Z. GEDNEY, T&B

RIGID STEEL CONDUIT RISER (CONTINUOUS 10' (3 m) LENGTH).

ATTACHED WITH LAG SCREWS. (TYPICAL)

2-HOLE STRAP FOR RIGID CONDUIT, ZINC PLATED STEEL O.Z. GEDNEY TYPE TH-1800

LOCKING COLLAR (SEE DETAIL)

SEALING BUSHING, SIZE AND CONDUCTOR CONFIGURATION TO MATCH SERVICE. OZ GEDNEY TYPE CSBG COMPLETE WITH

NON-METALLIC "U" GUARD. FURNISH FOR INSTALLATION BY ELECTRIC UTILITY. LENGTH AS REQUIRED

PROVIDE ADEQUATE SLACK FOR DRIP LOOP AND CONNECTION BY THE UTILITY

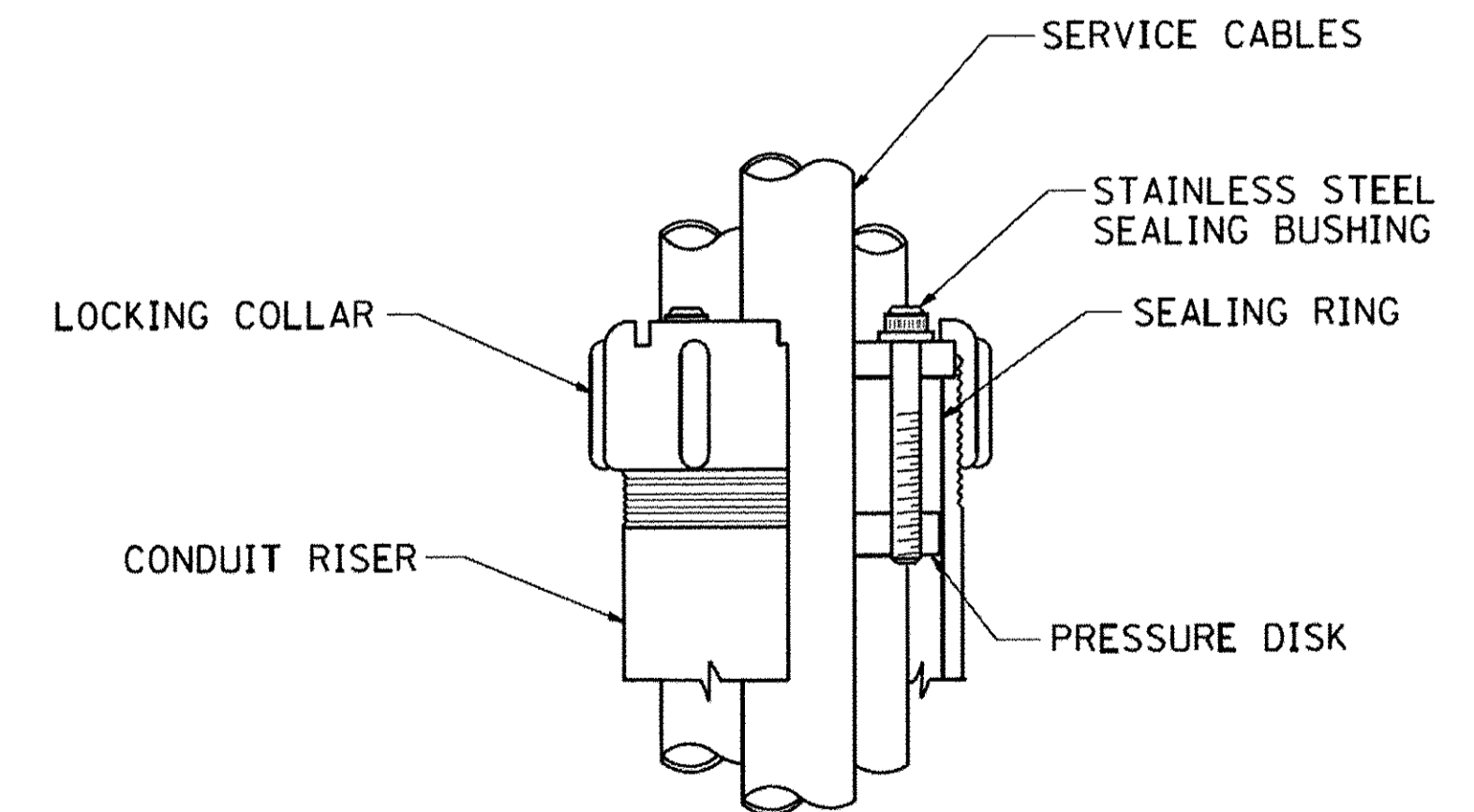
UTILITY POLE, PRIMARY CUT-OUTS TRANSFORMER(S) (AS APPLICABLE) BY THE ELECTRIC UTILITY. THE CONTRACTOR SHALL COORDINATE AS REQUIRED.

APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

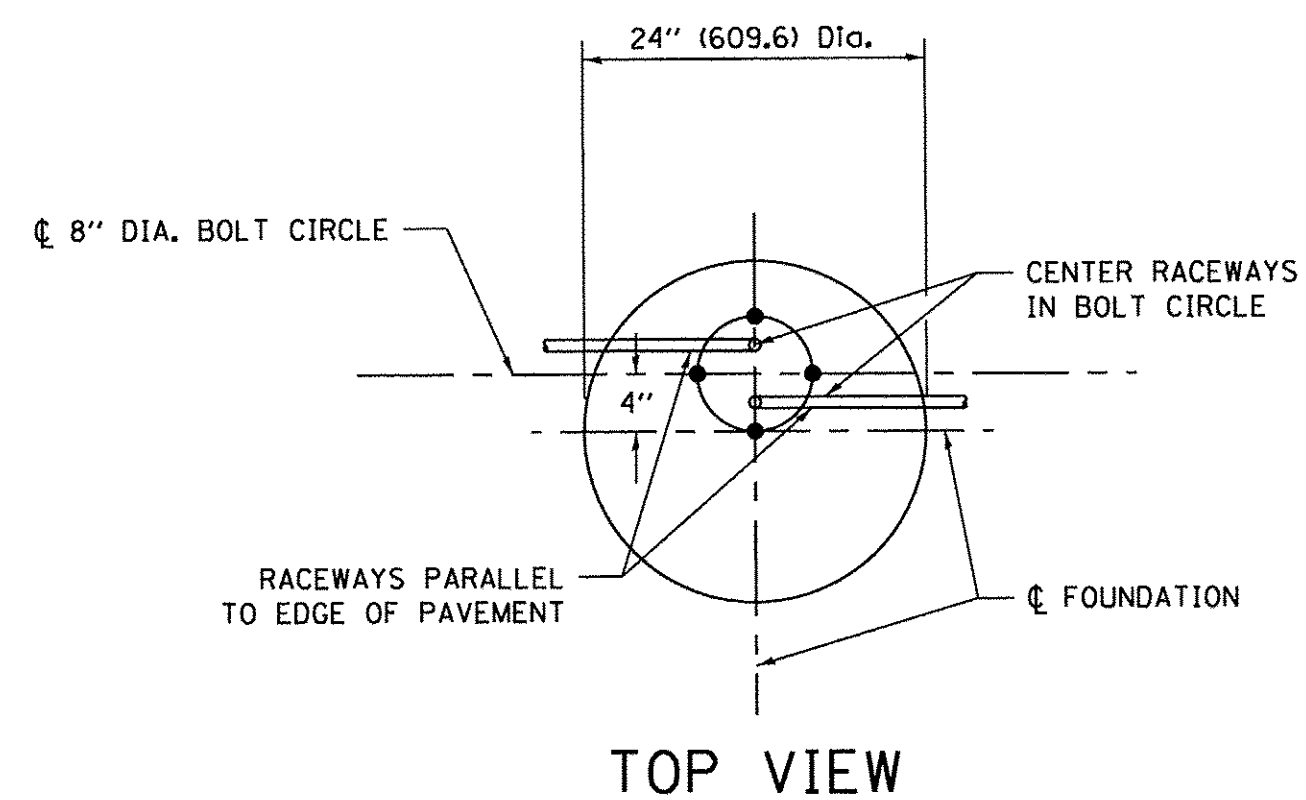


SEALING BUSHING DETAIL

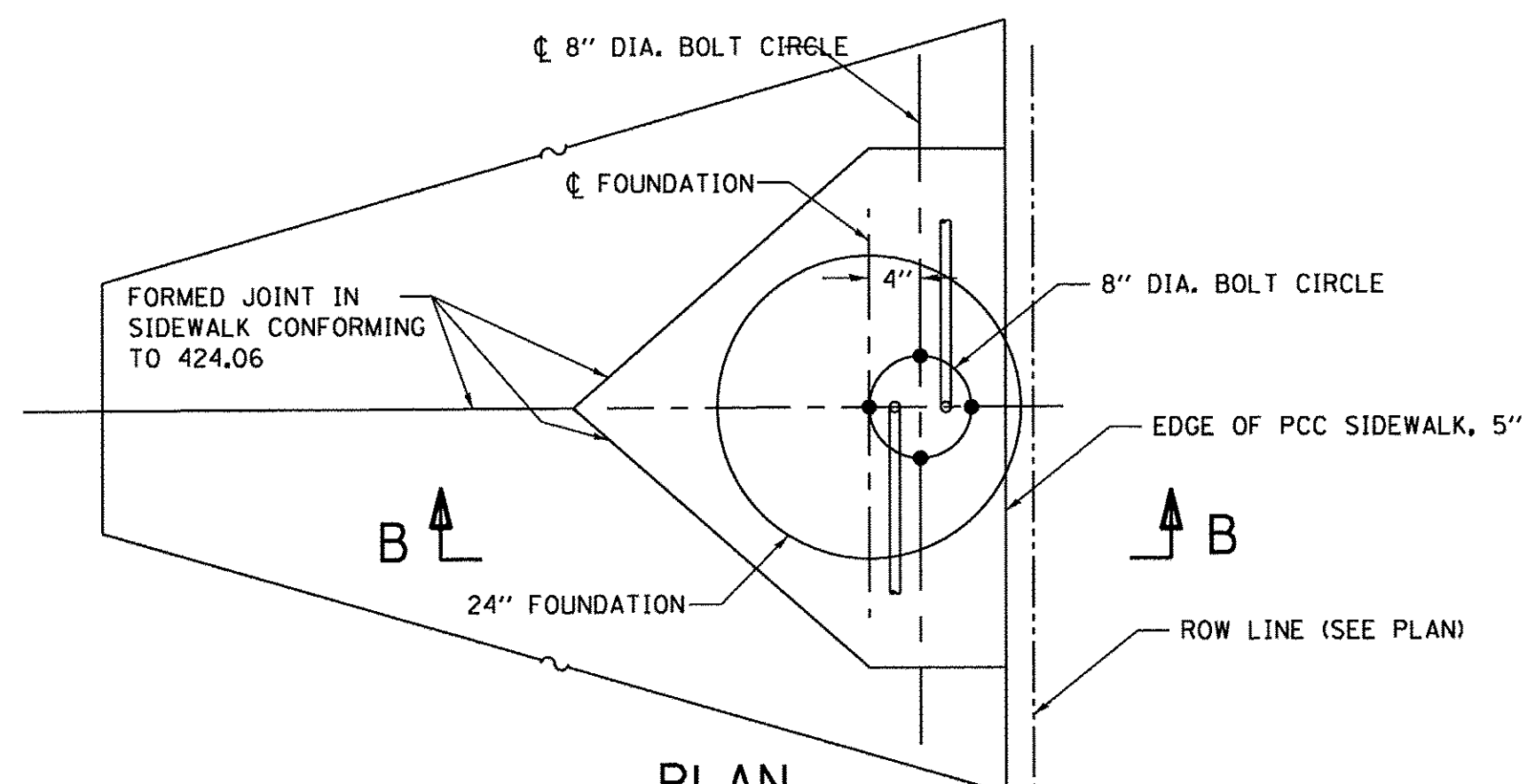
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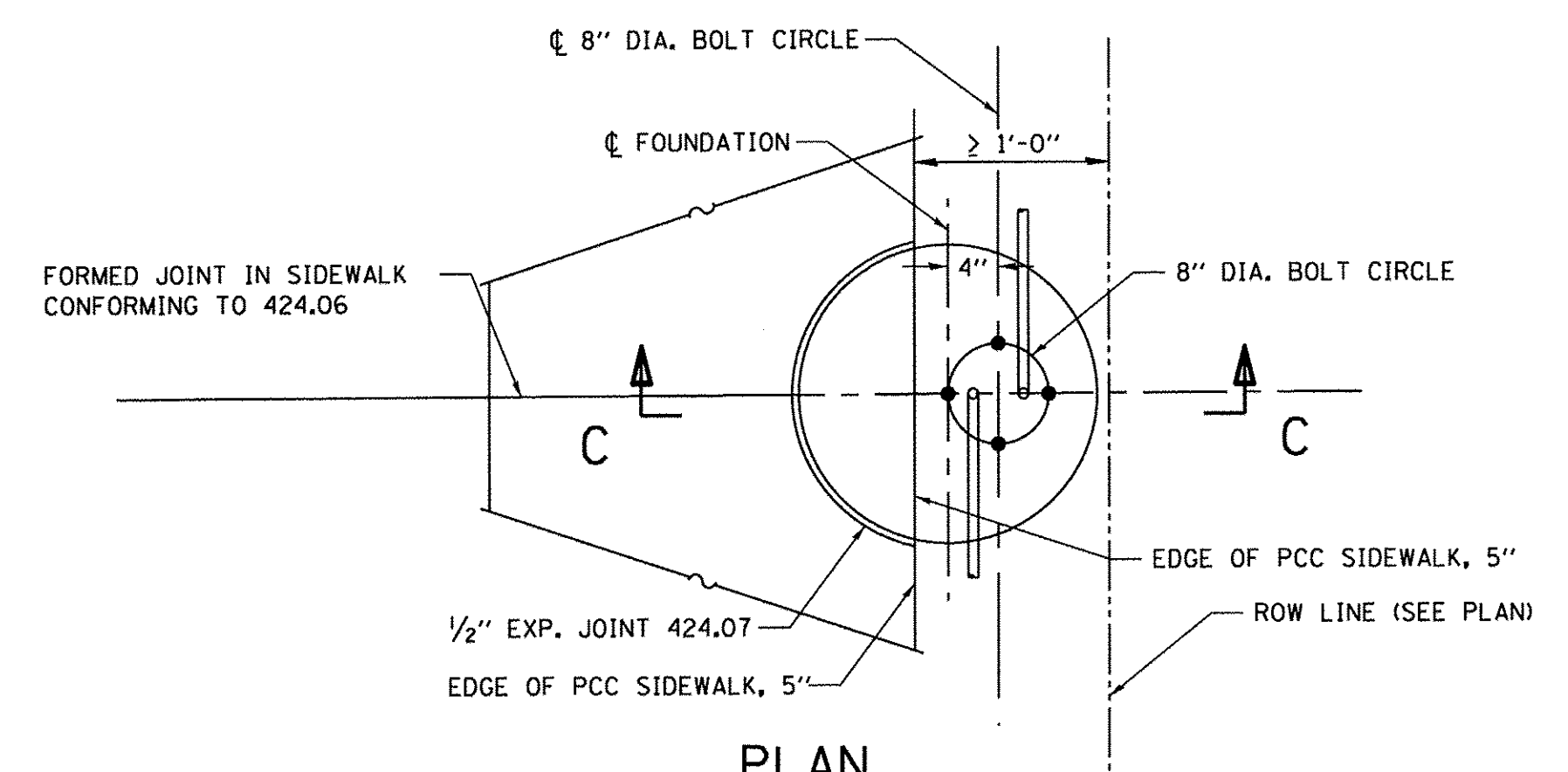
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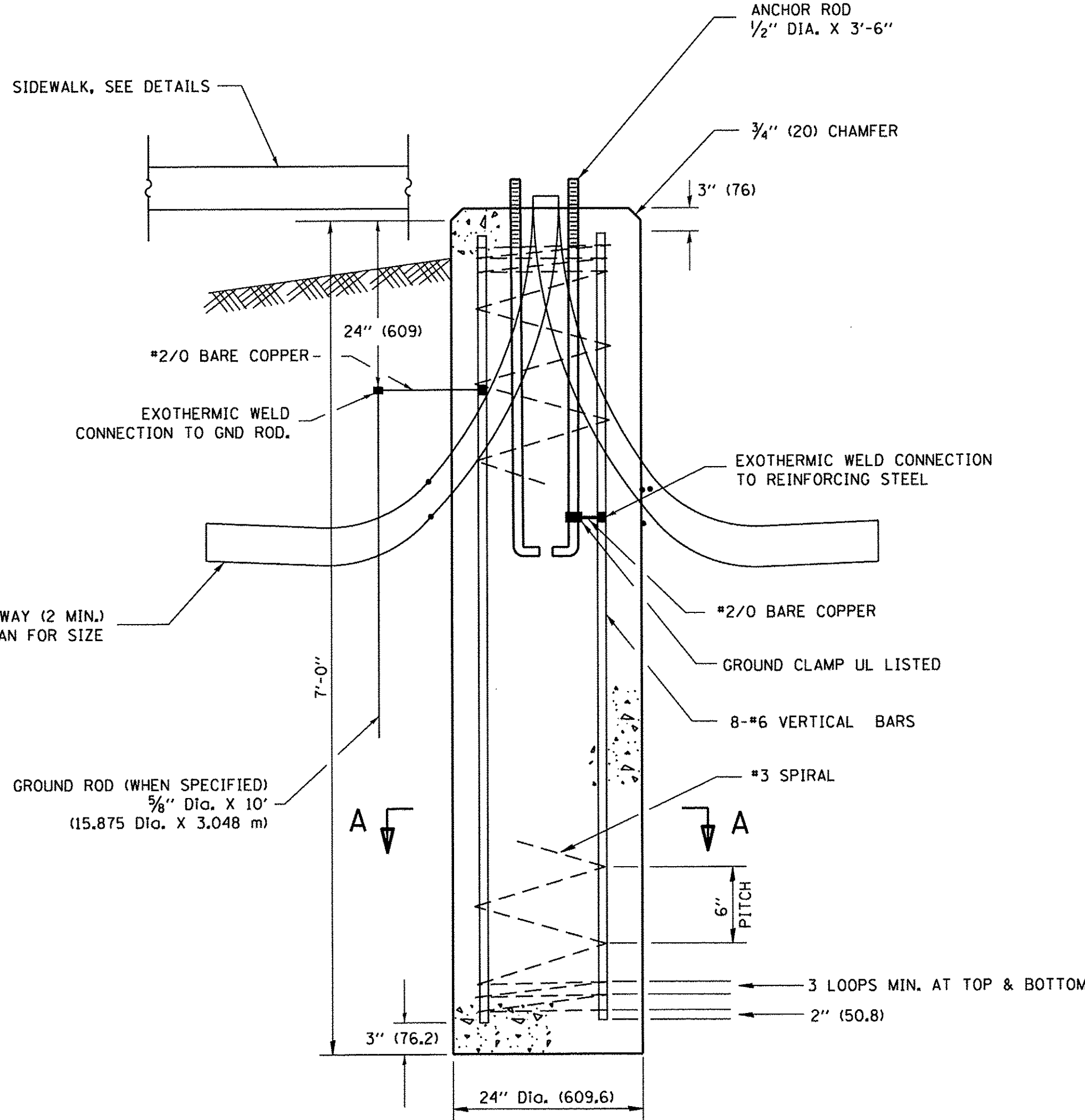
TOP VIEW



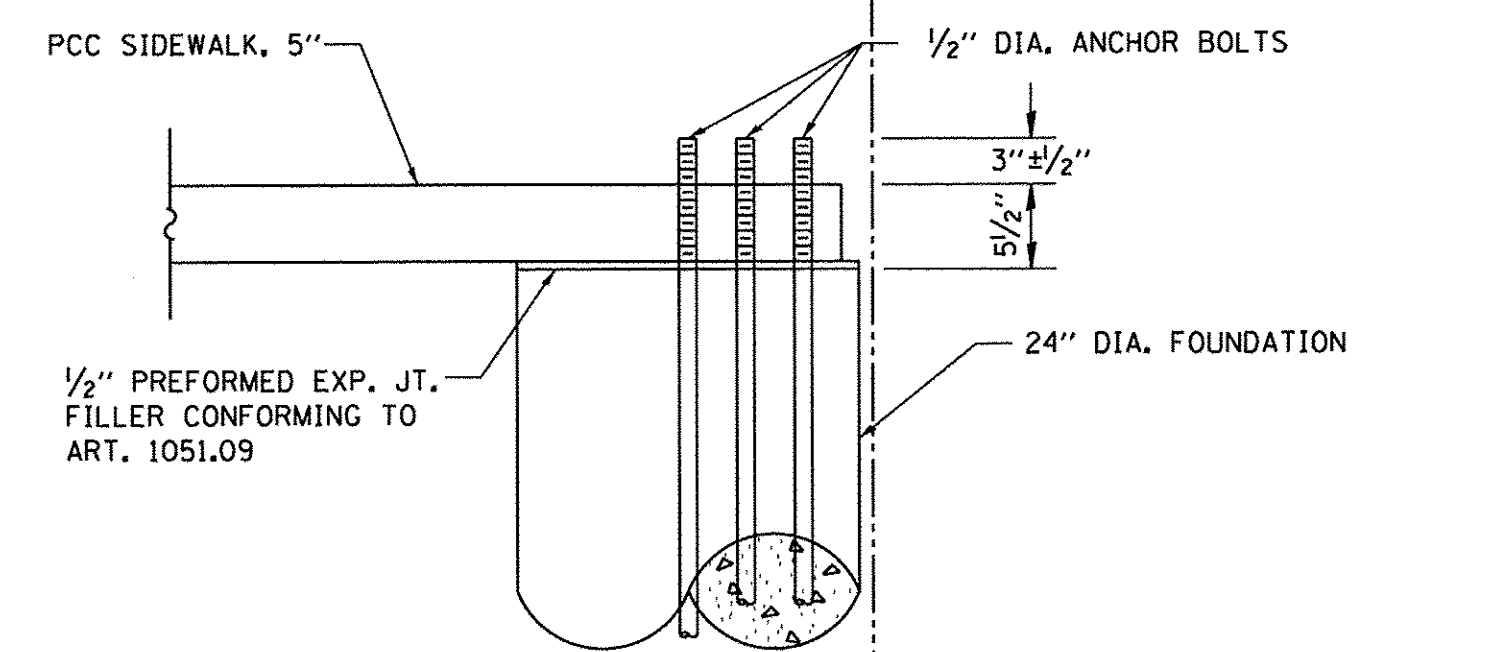
PLAN CASE 1



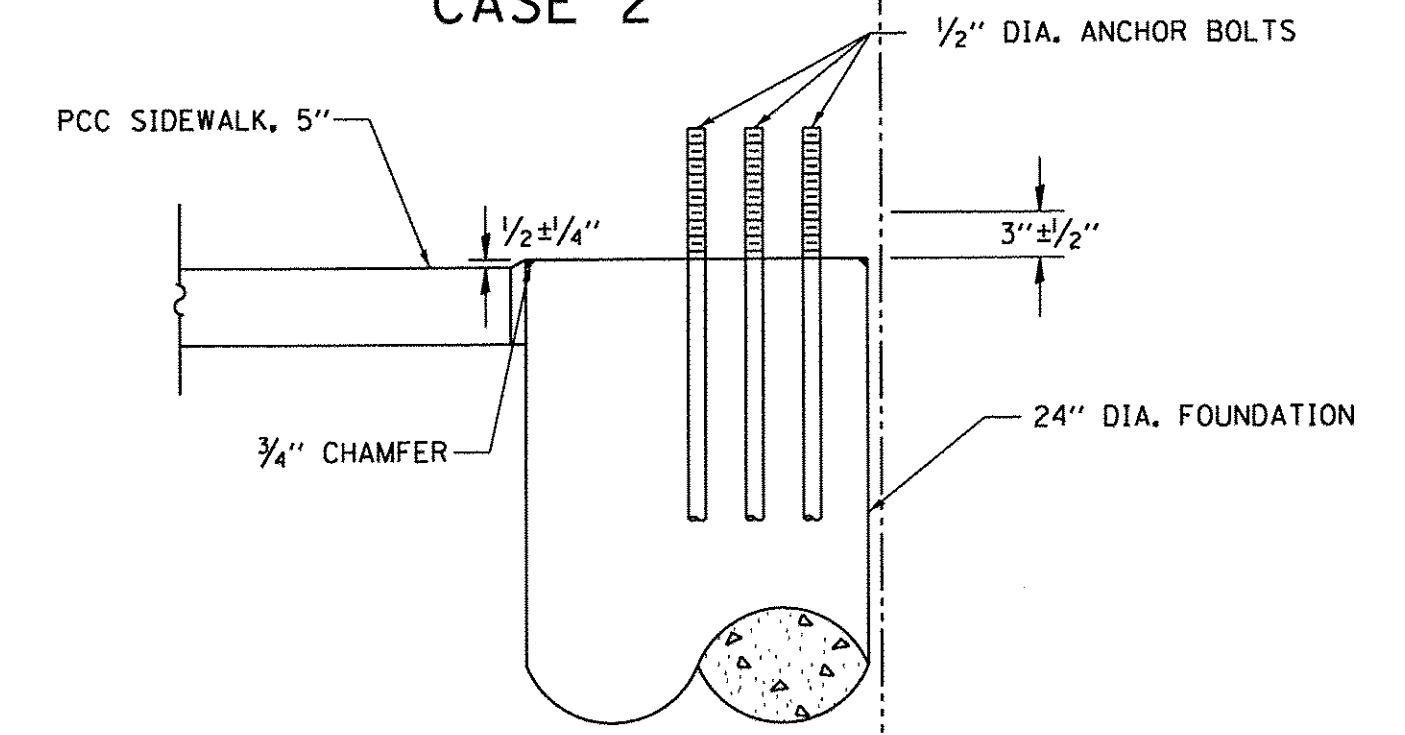
PLAN CASE 2



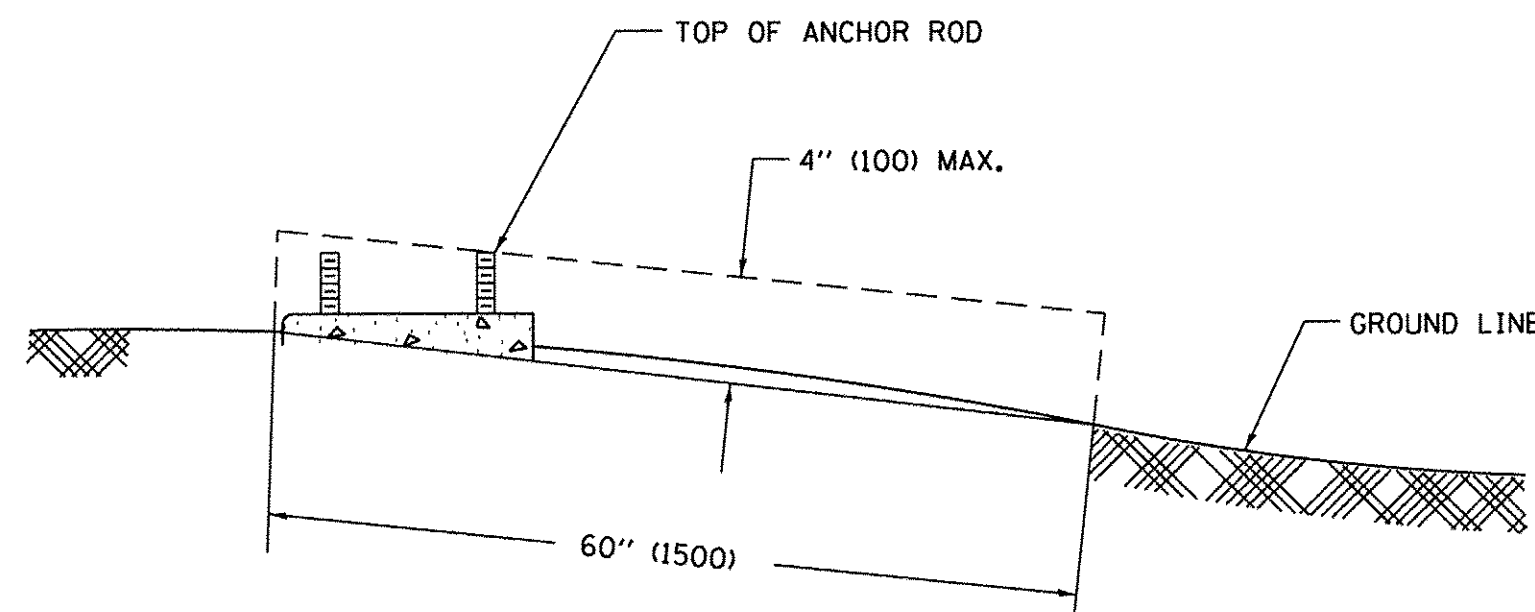
FOUNDATION DETAIL



SECTION B-B



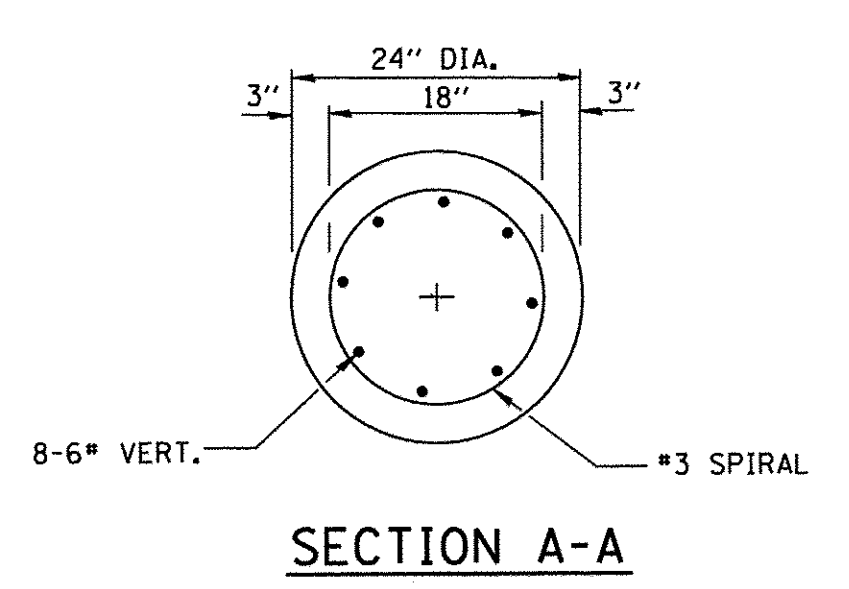
SECTION C-C



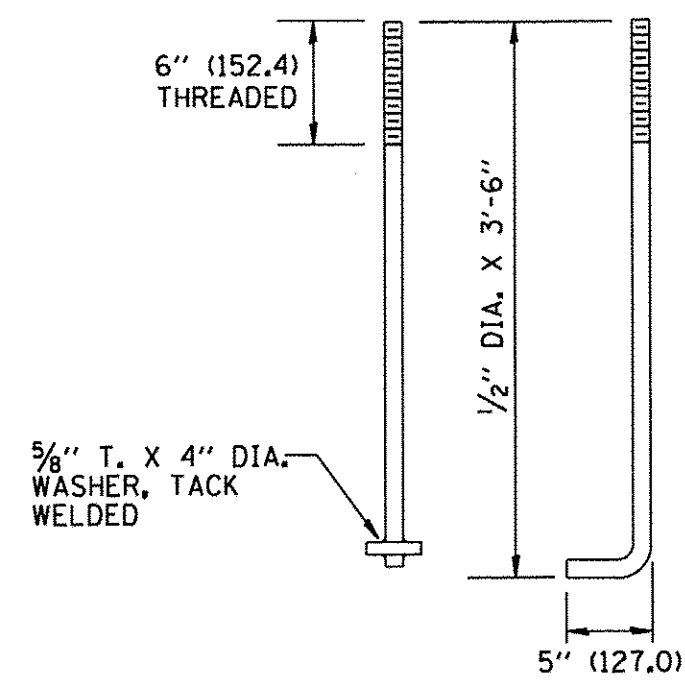
FOUNDATION EXTENSION DETAIL

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE CONTRACTOR SHALL COORDINATE ANCHOR BOLT SIZE AND LAYOUT WITH LIGHT POLE SUPPLIER. ANY CONFLICTS IDENTIFIED SHALL BE BROUGHT TO ENGINEER'S ATTENTION BEFORE ORDERING ANCHOR BOLTS.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS S1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



SECTION A-A



ANCHOR BOLT DETAIL

LIGHT POLE FOUNDATION DEPTH TABLE
 30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Ou = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Ou = 0.75 TON/SQ.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Ou = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND φ = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND φ = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND φ = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

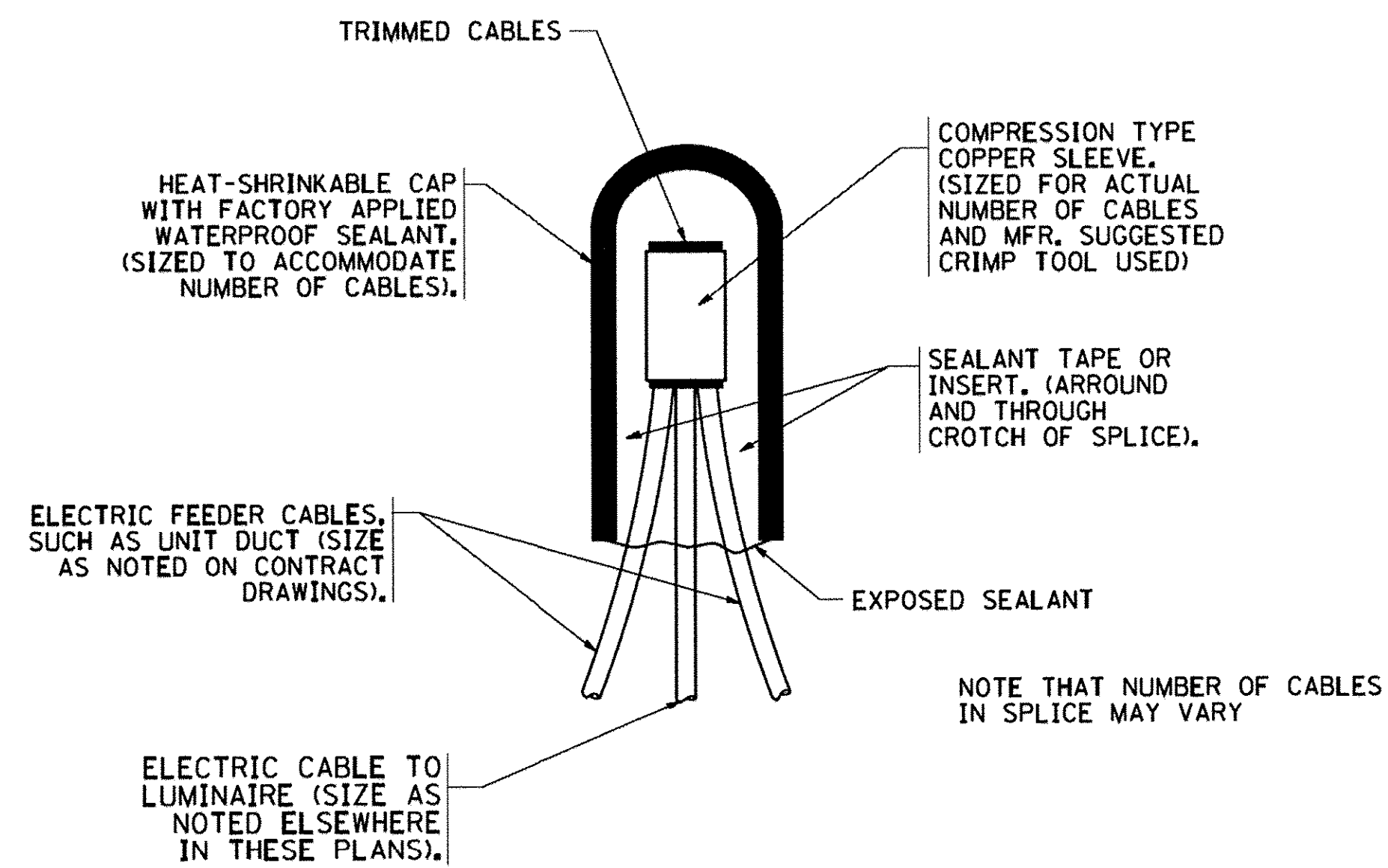
SCALE: NTS SHEET NO. 10 OF 10 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	61
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

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 # 184-001322

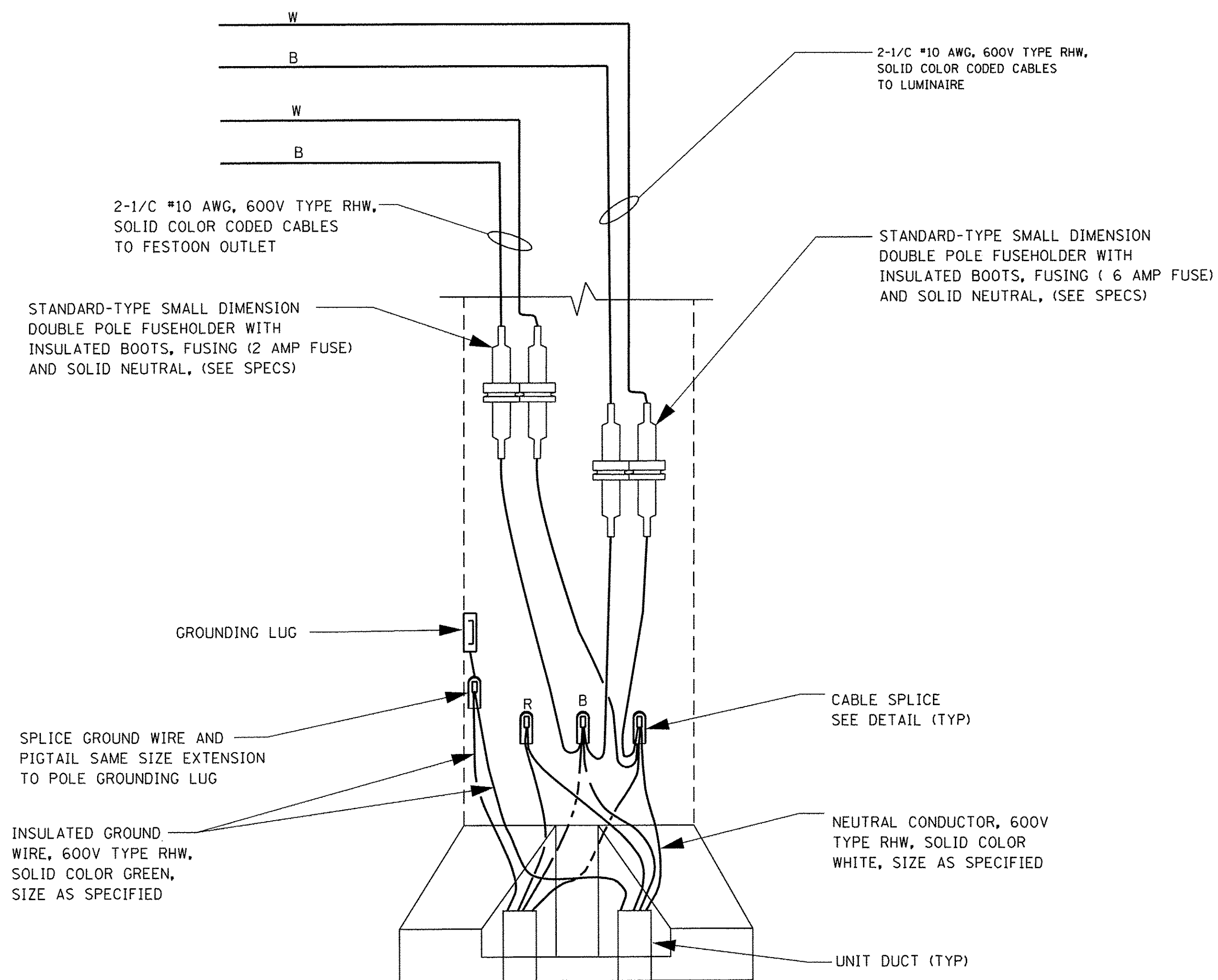
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LT-7

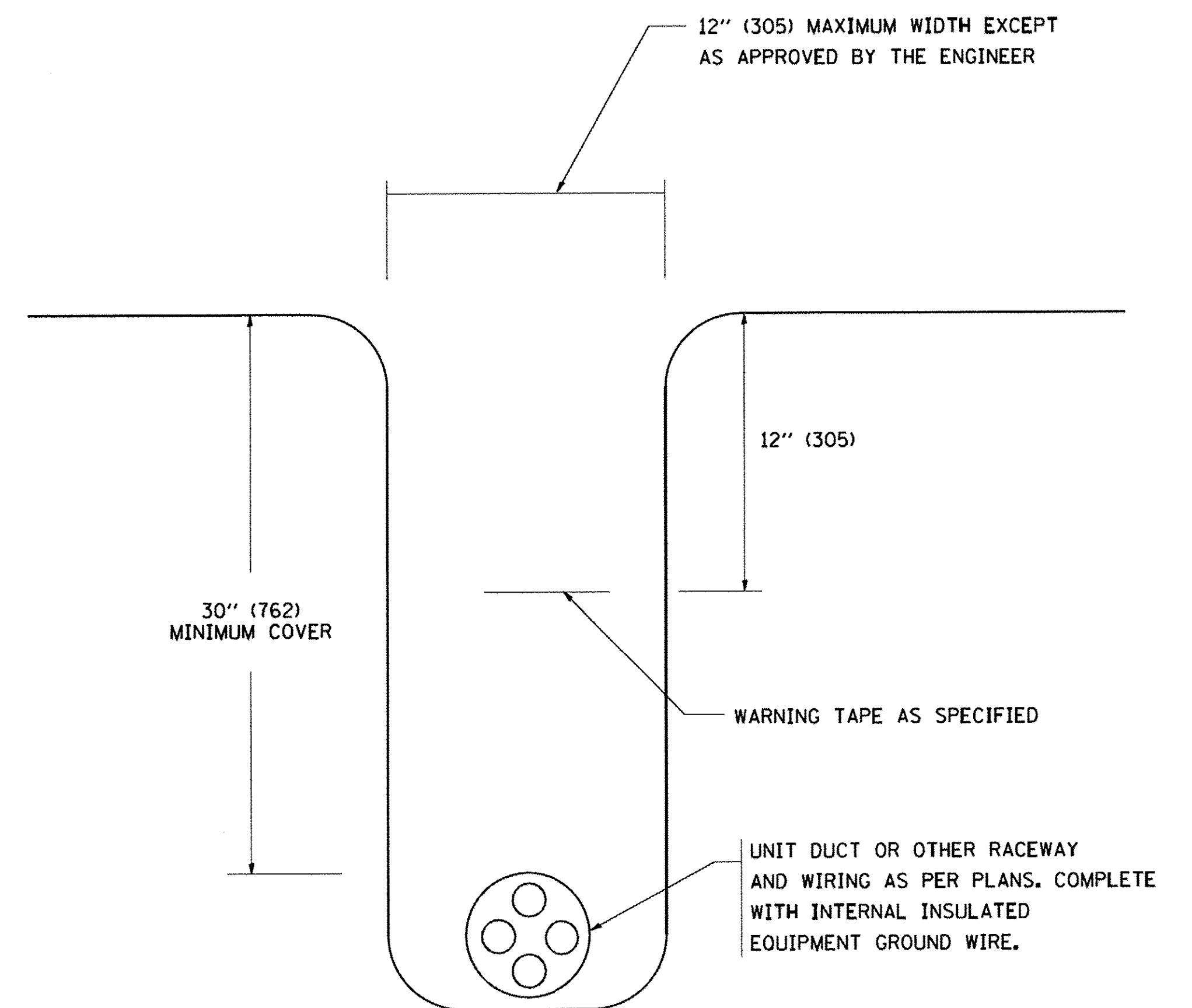


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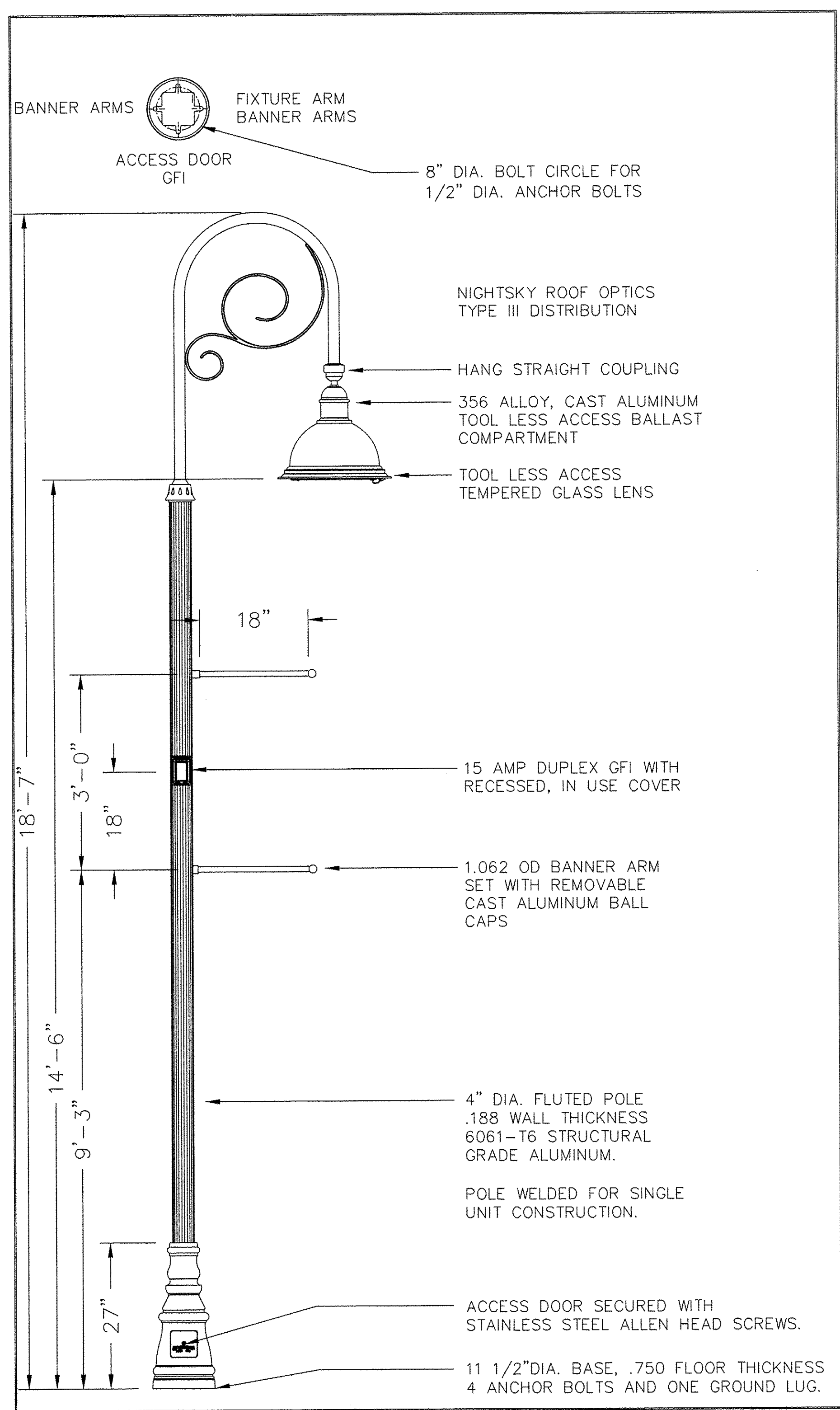


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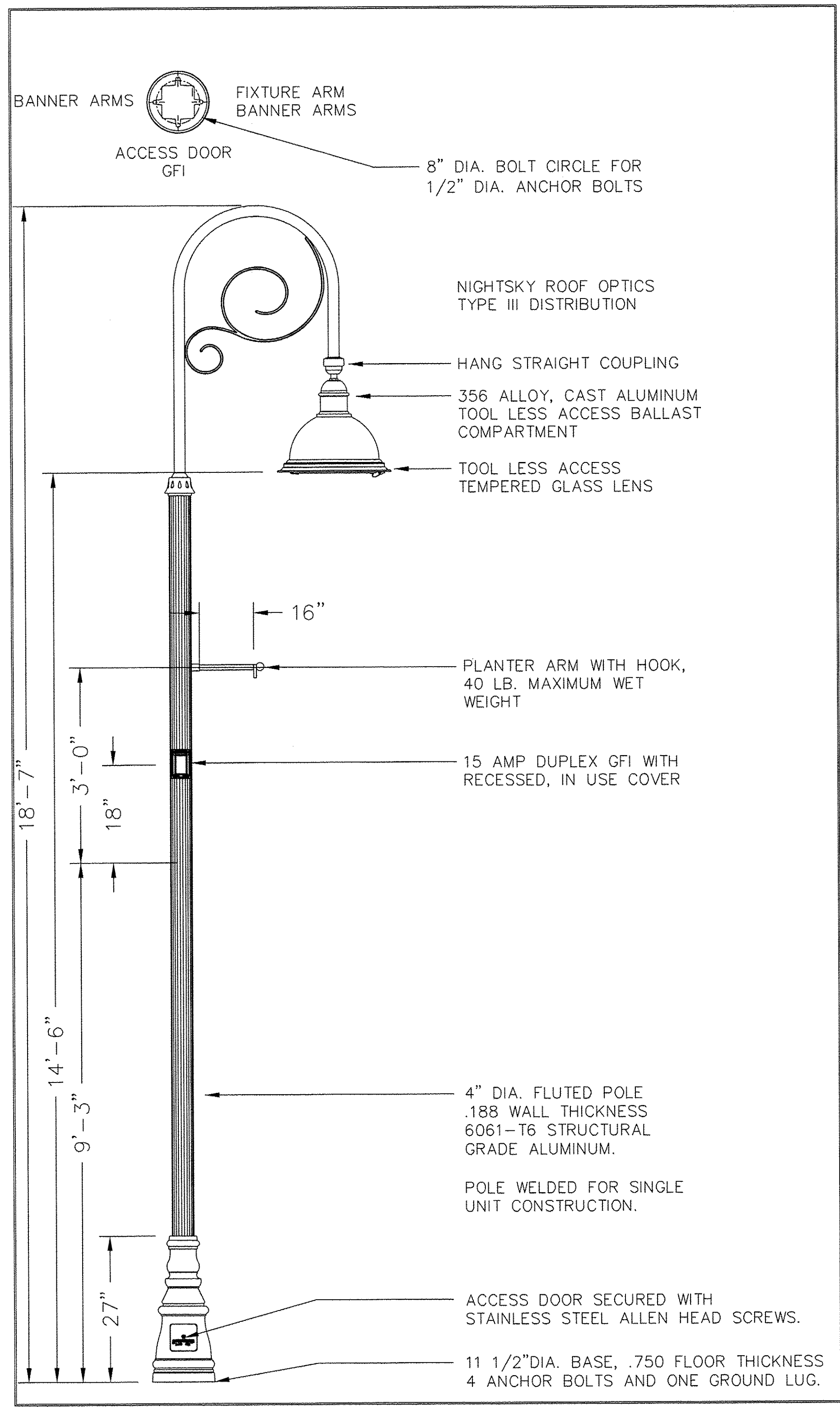
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ORNAMENTAL LIGHT UNIT WITH BANNER



ORNAMENTAL LIGHT UNIT WITH PLANTER

ORNAMENTAL LIGHT UNIT, COMPLETE DETAIL

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 PROJ. CONTACT:
 FILE NAME:
 PLOT DRIVER:
 PEN TABLE:

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 5413 Walnut Avenue, Ste 2
 Downers Grove, IL 60515

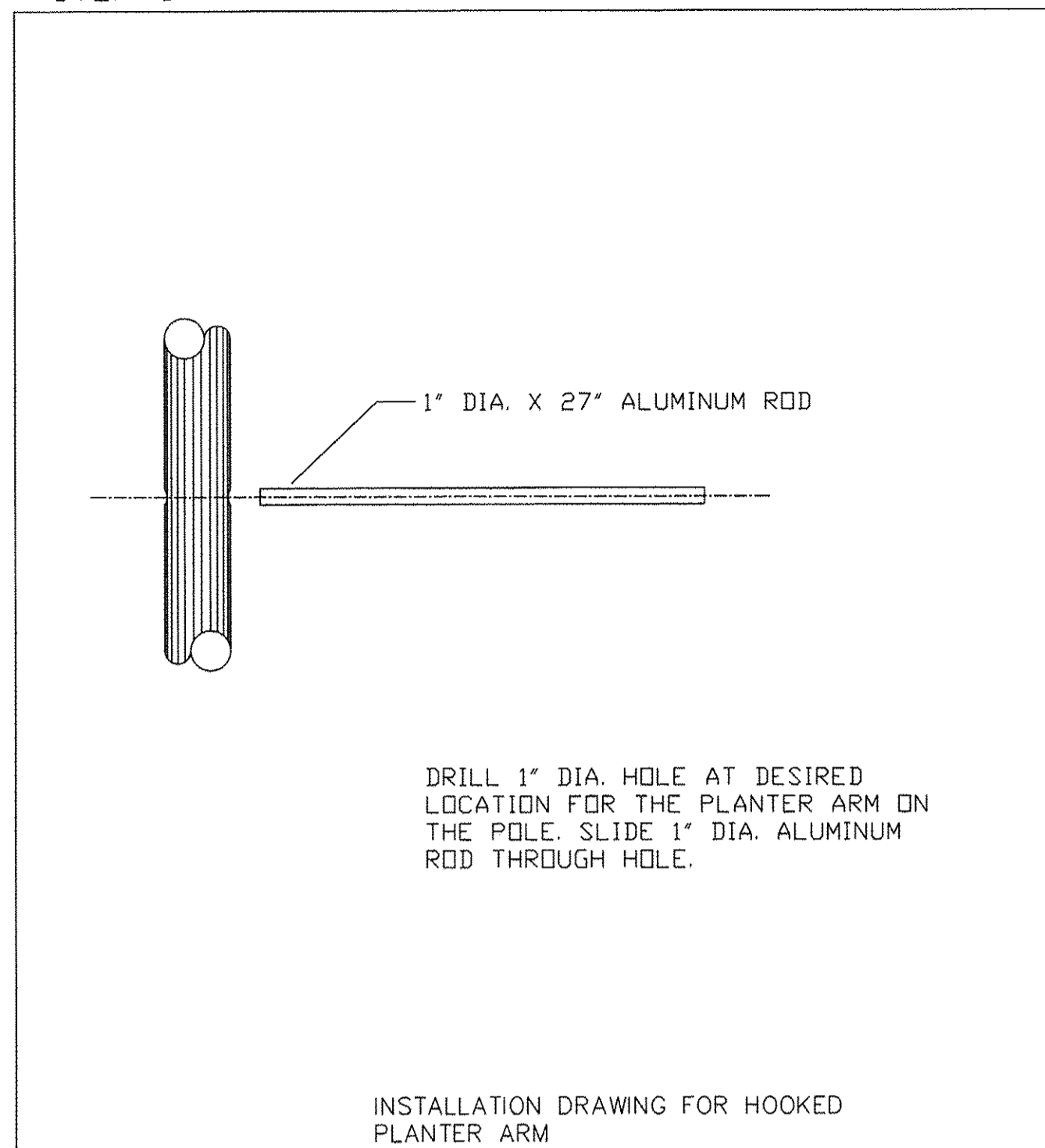
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

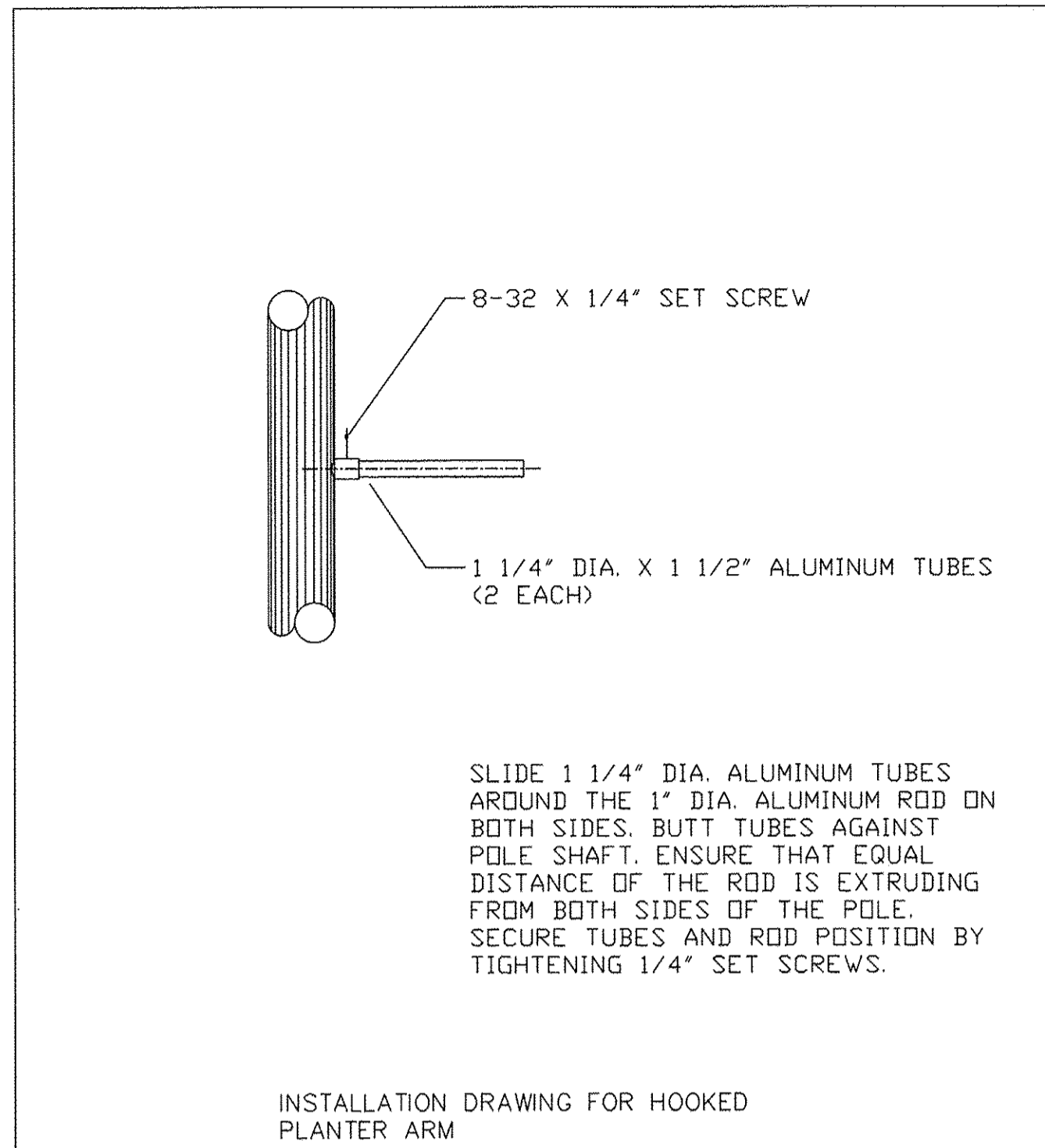
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CONTRACT NO. 61031				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

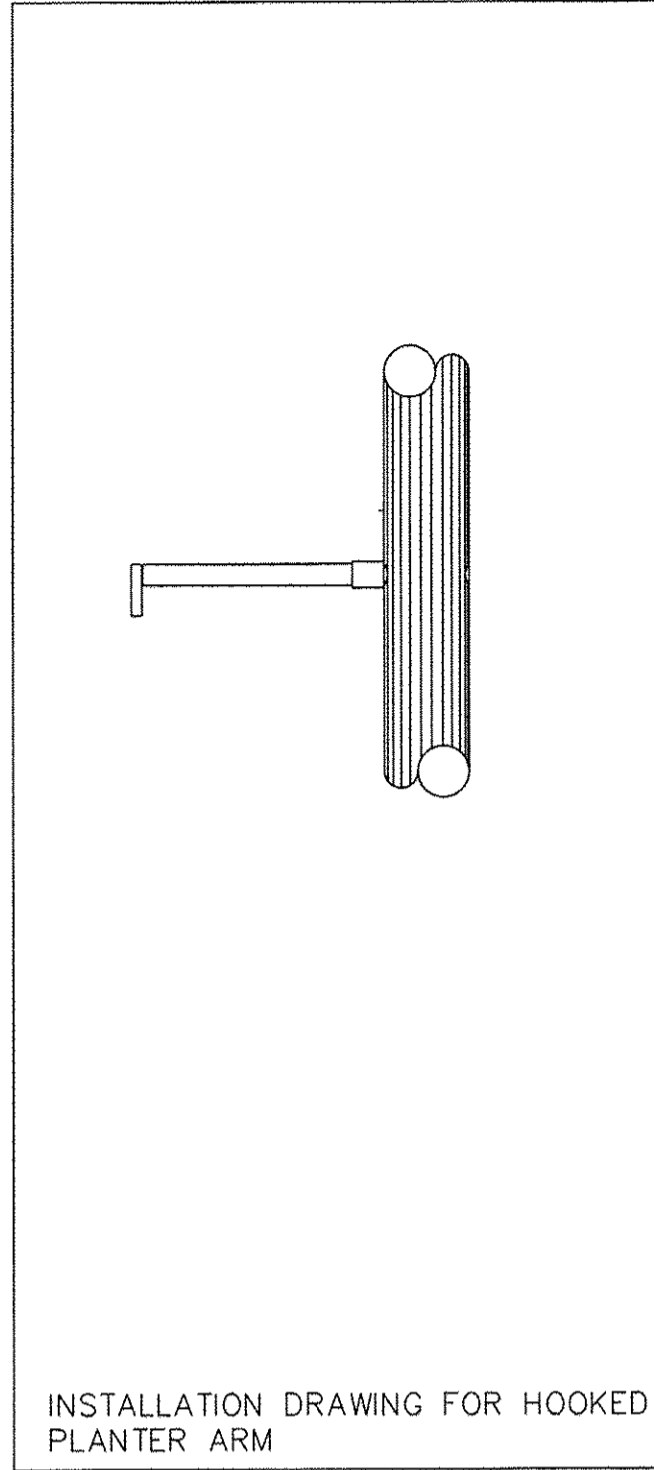
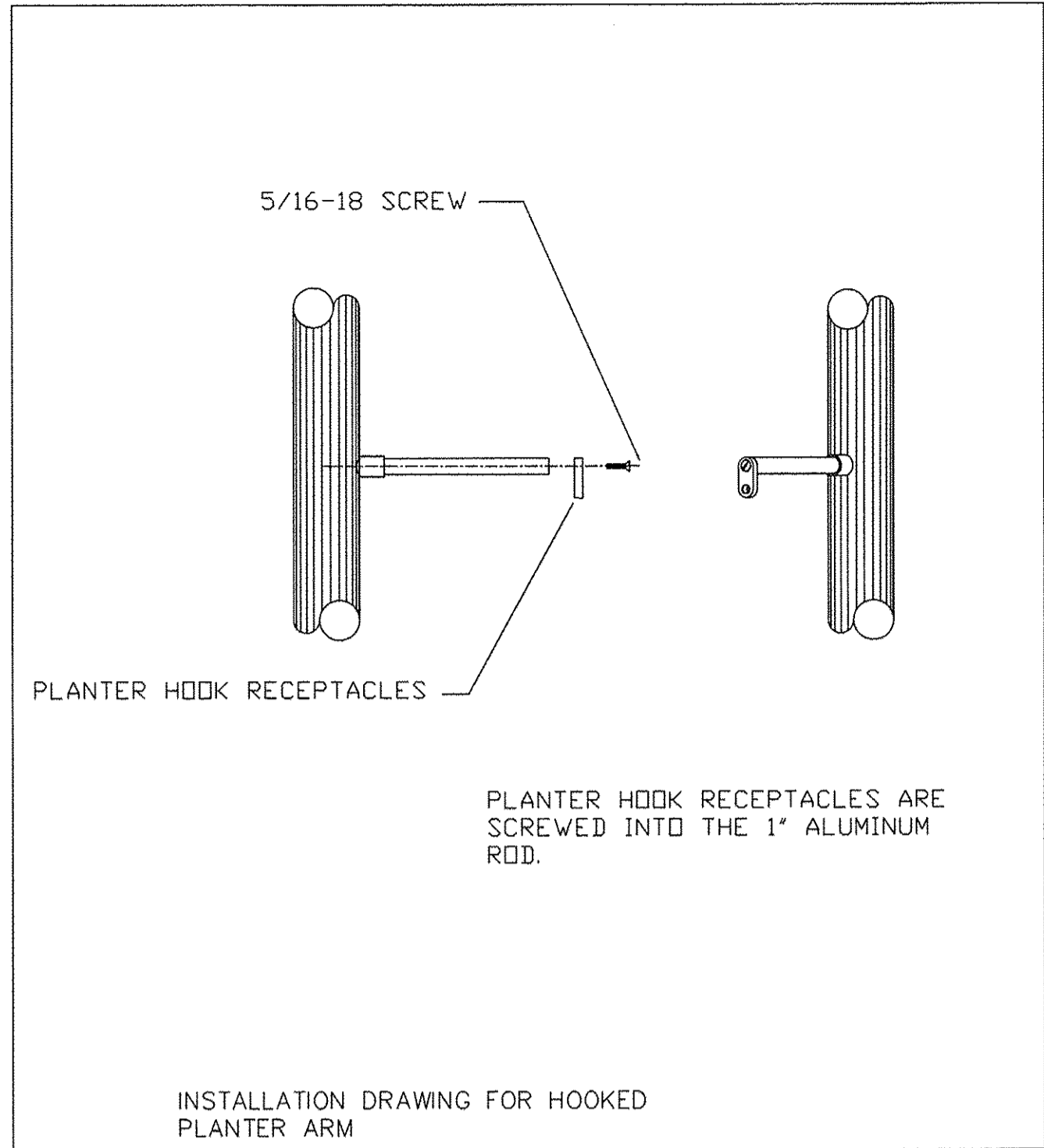
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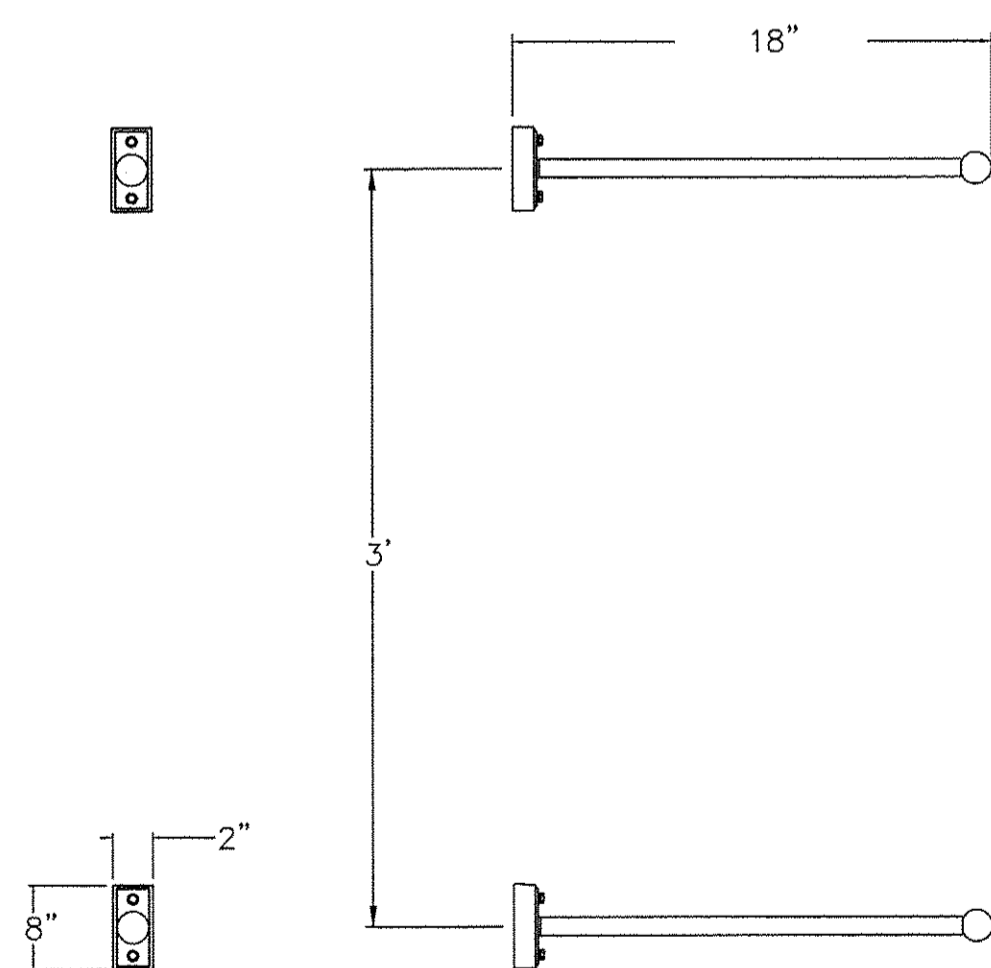
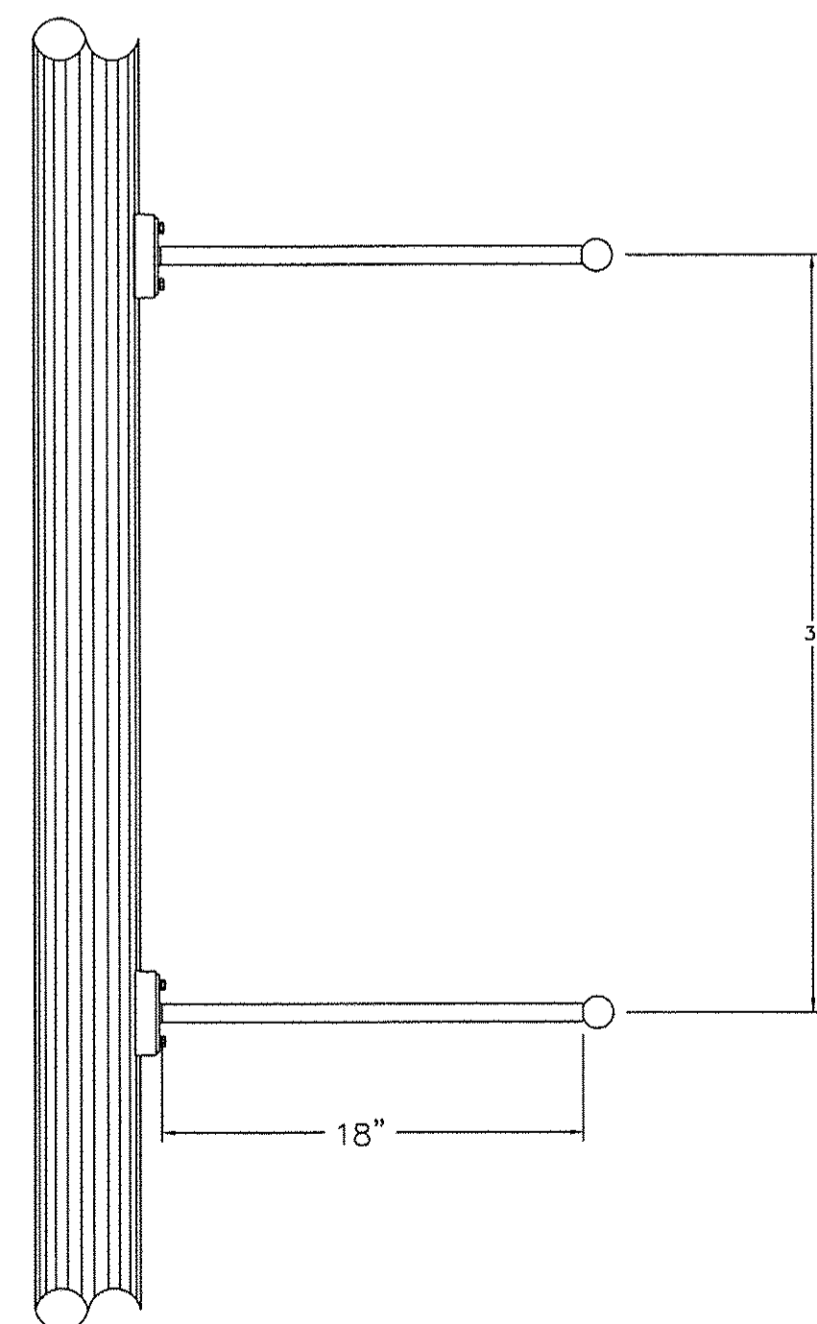
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STEP: 3



PLANTER ARM INSTALLATION



THE (2) 7/8" DIA. BANNER ARMS ARE 37" APART FROM THE TOP OF THE UPPER ARM TO THE BOTTOM OF THE LOWER ARM

SET FOR 18" X 36" BANNERS OR ADVISE

TO FIELD INSTALL TO FLAT SURFACE

BANNER ARM INSTALLATION

NOTES:

- BANNER AND PLANTER ARMS SHALL MEET AASHTO DESIGN CRITERIA (LOADING AND CALCULATION REQUIREMENTS) 90 MPH-3 SEC WIND SPEEDS.

DATE	
BY	
SURVEYED	
ALIGNMENT CHECKED	
PT. OF WAY CHECKED	
ROAD FILE NAME	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
GRADES CHECKED	
IRAM. NOTED	
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PROFILE	
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 PEN TABLE: \$PENLTABLE\$

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 5413 Walnut Avenue, Ste 2
 Downers Grove, IL 60515

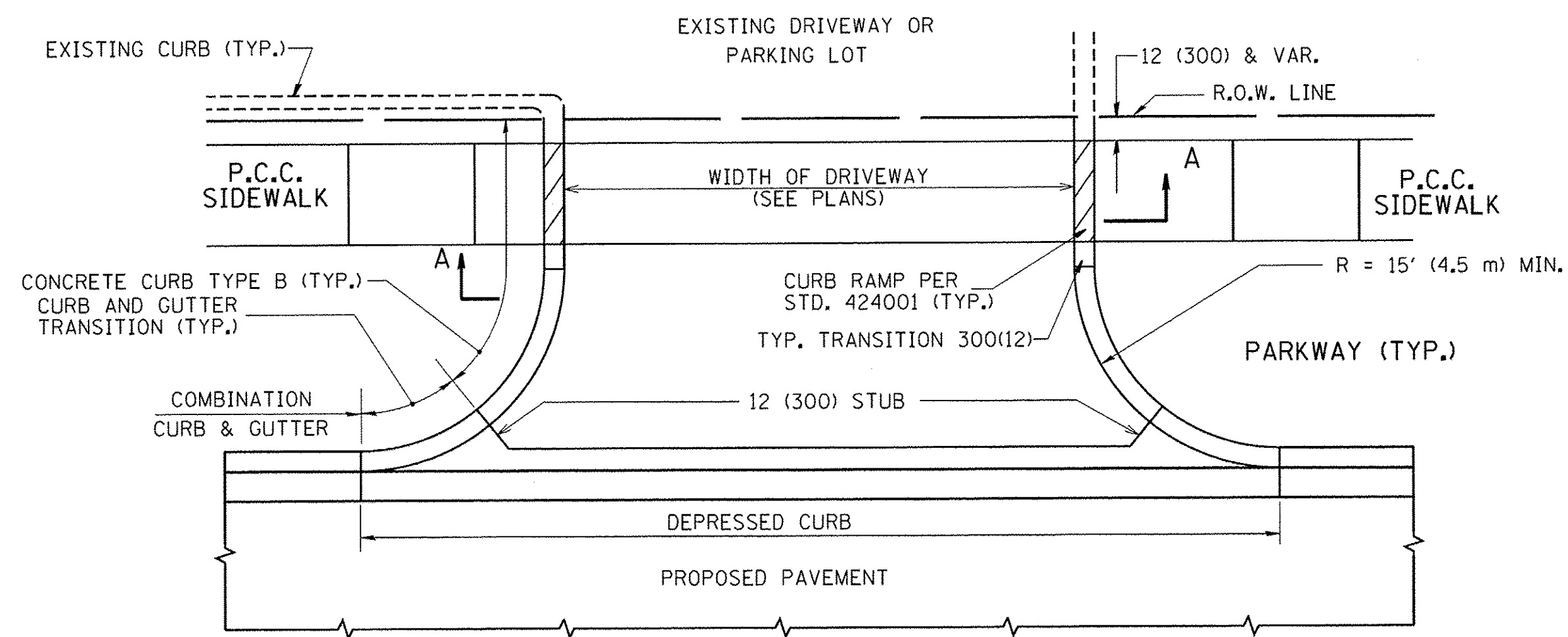
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

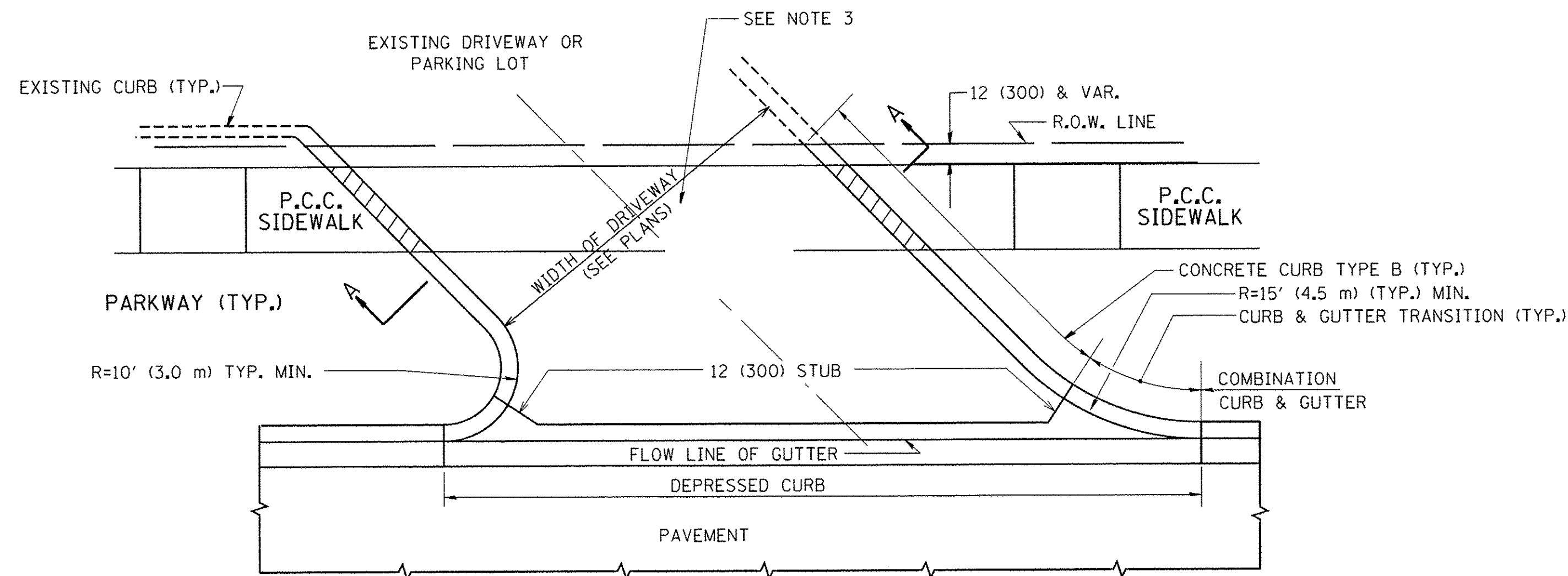
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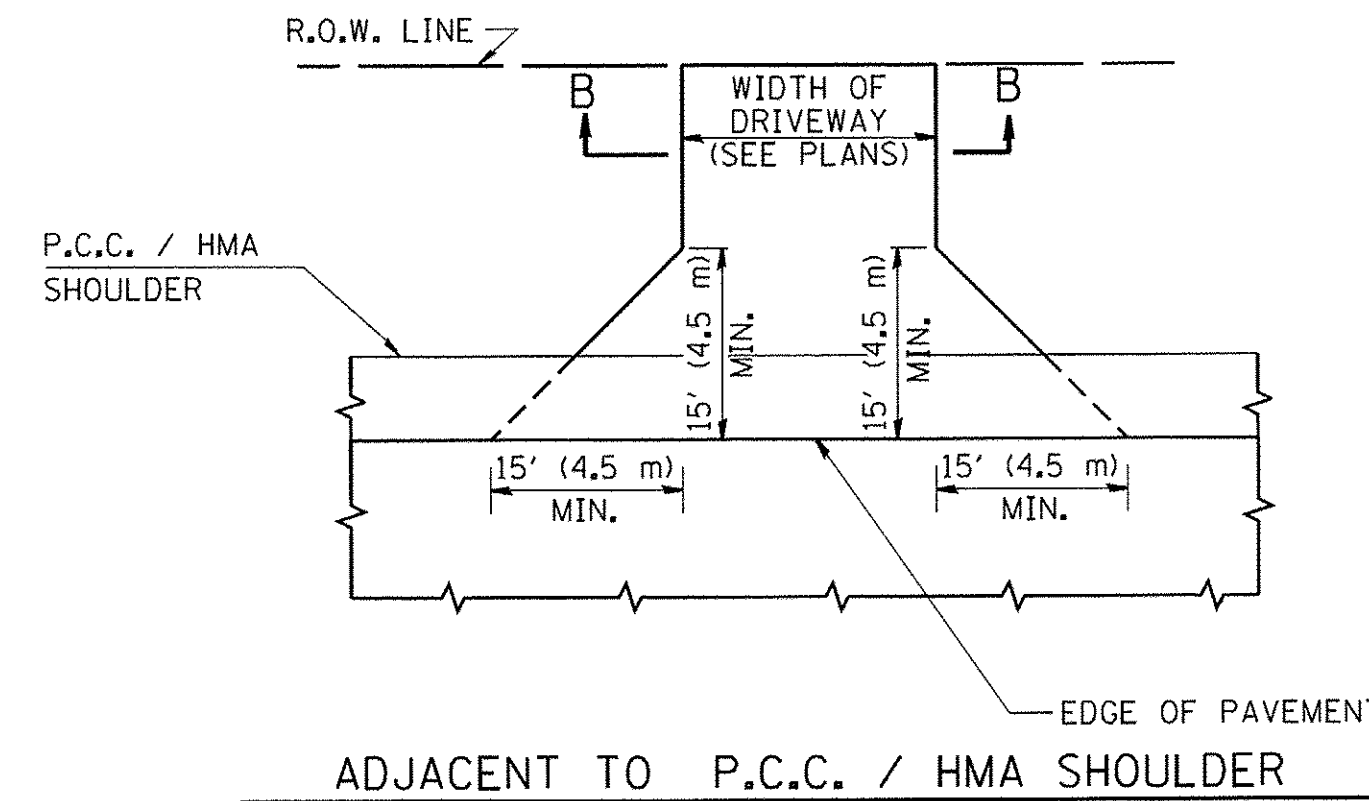
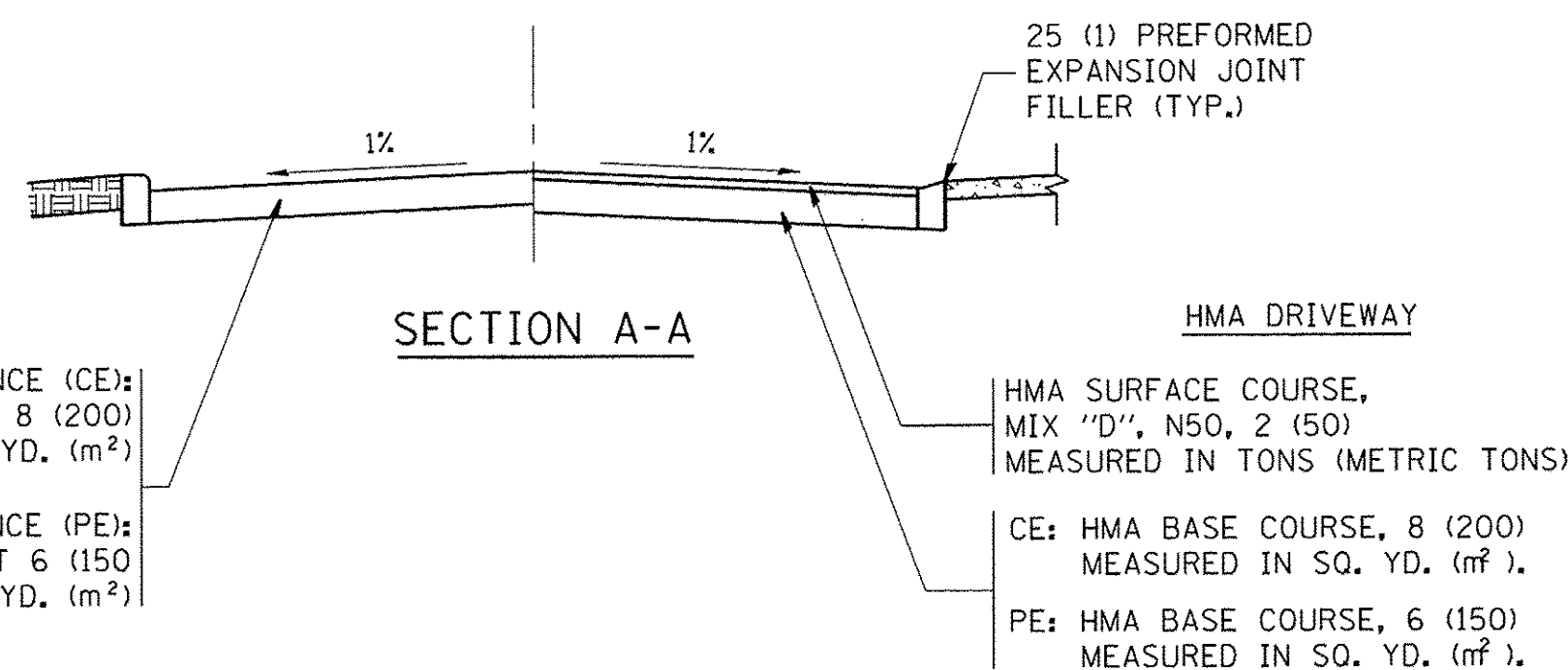
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				



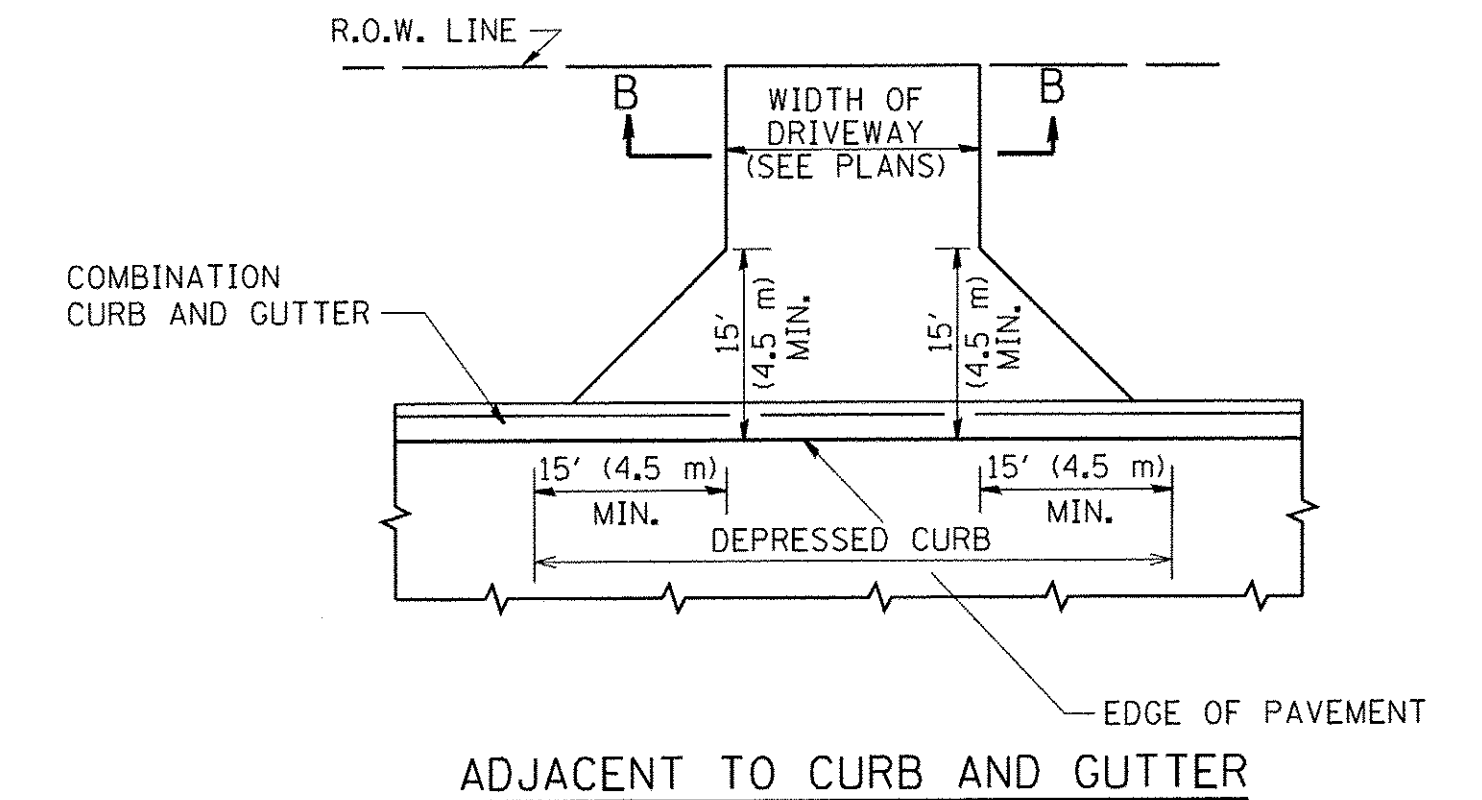
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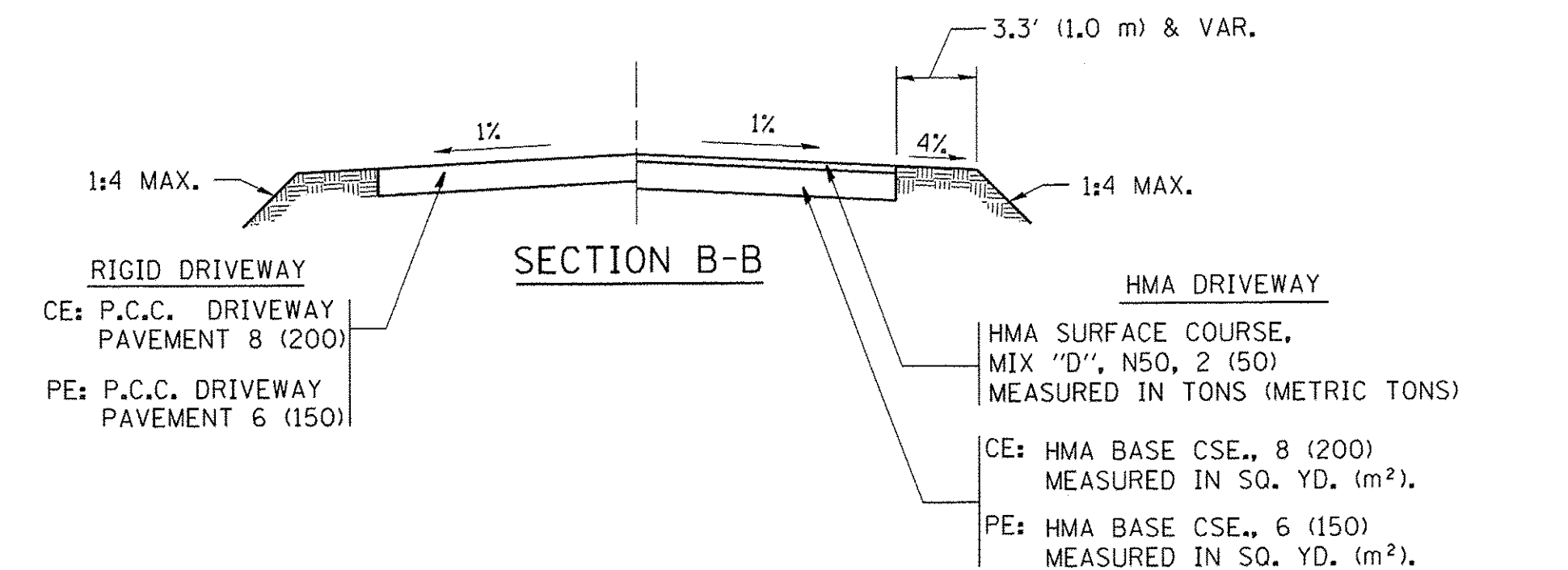
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

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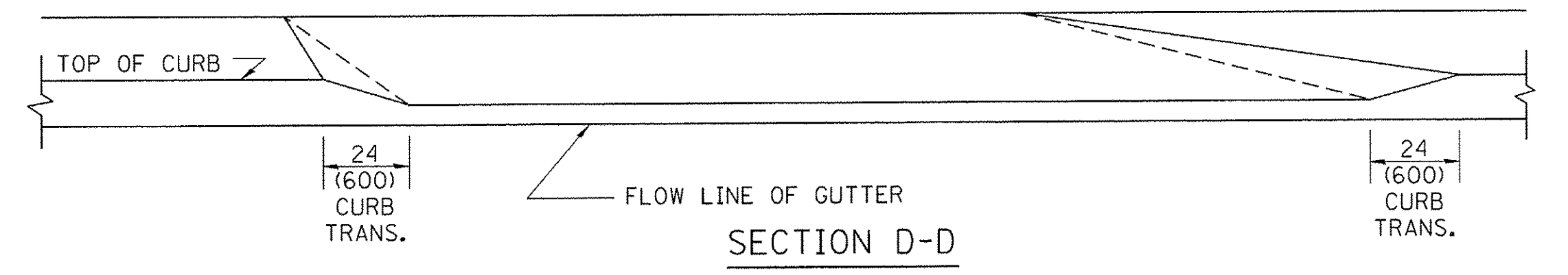
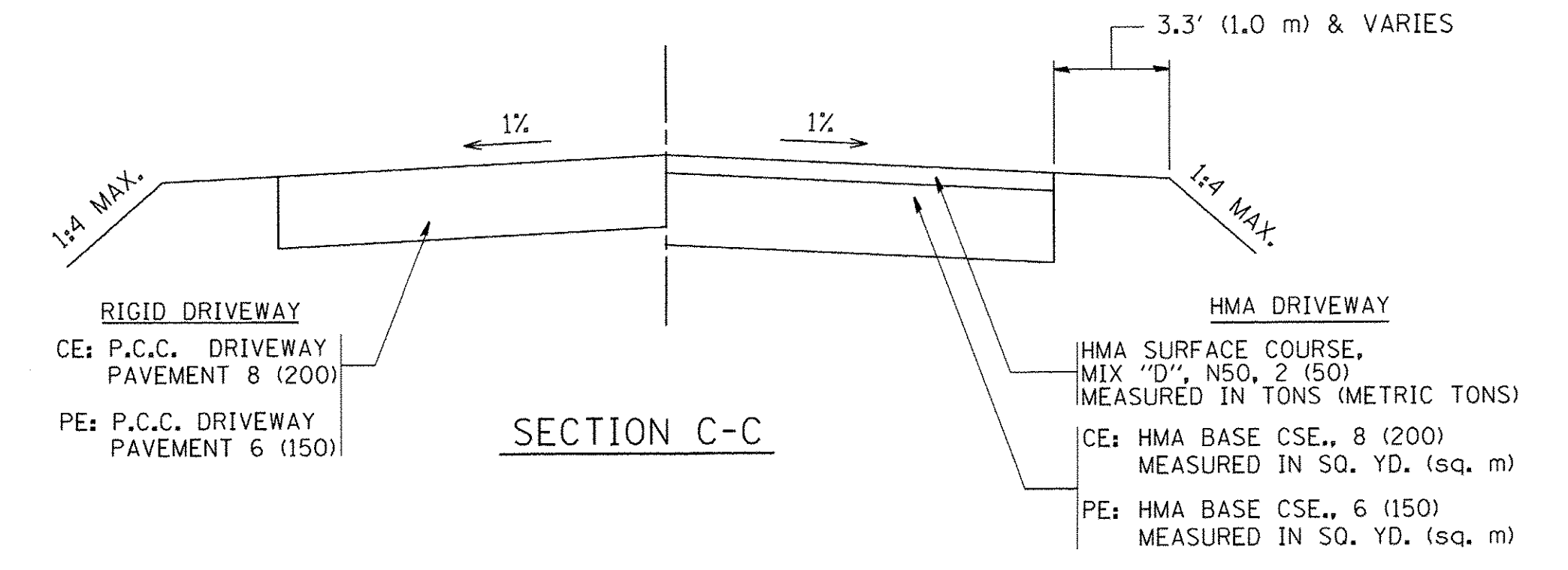
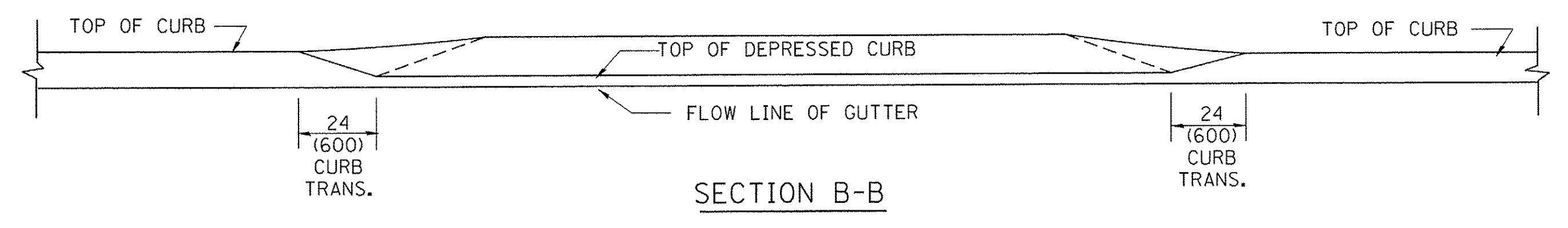
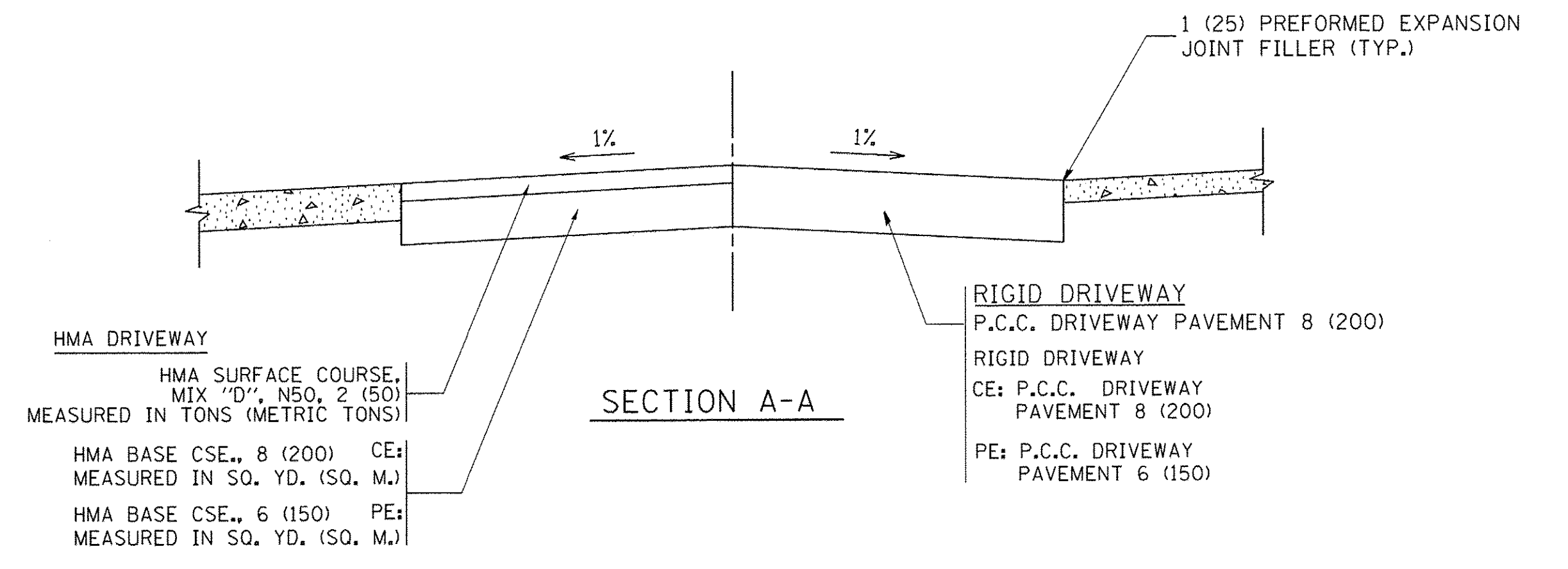
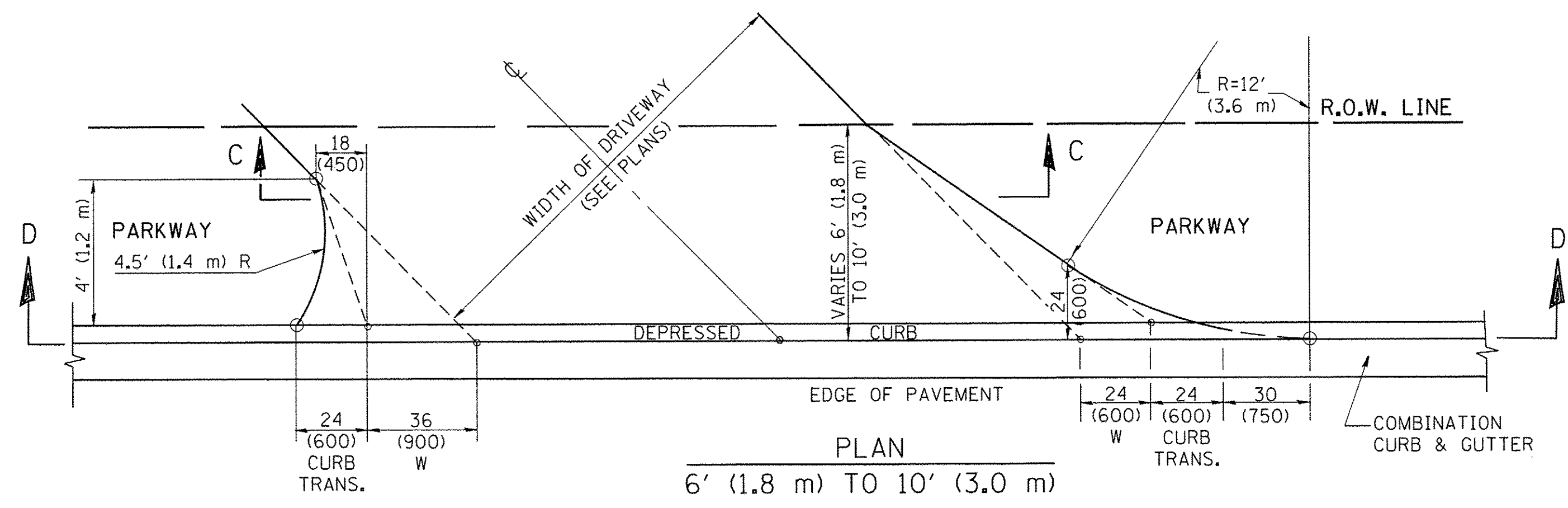
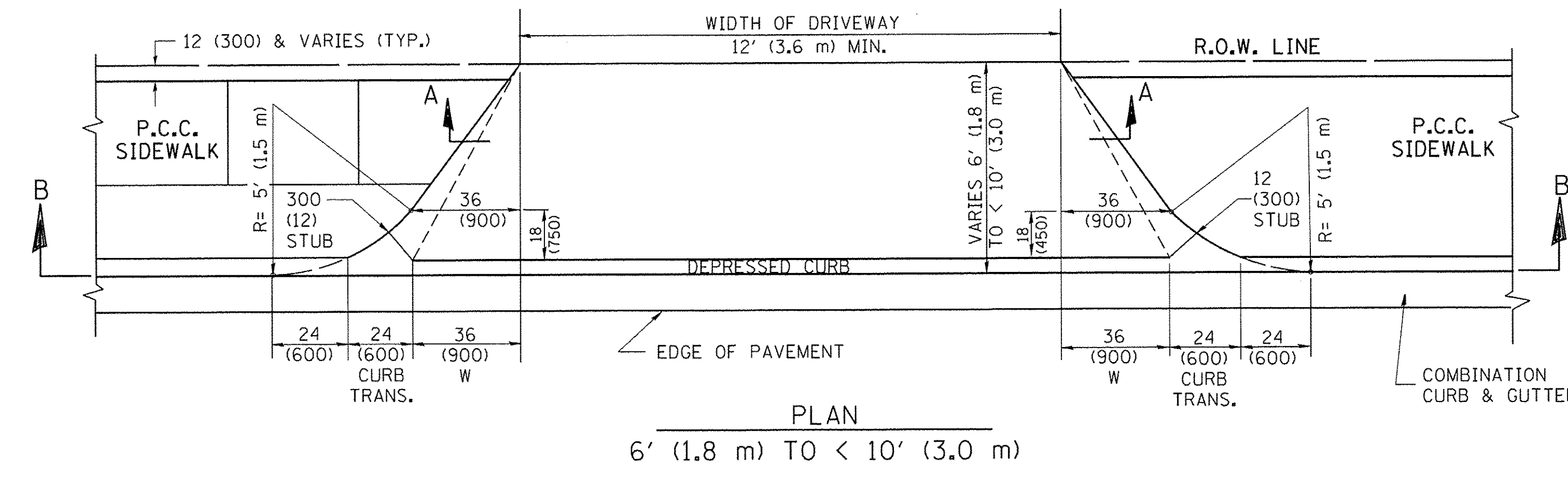
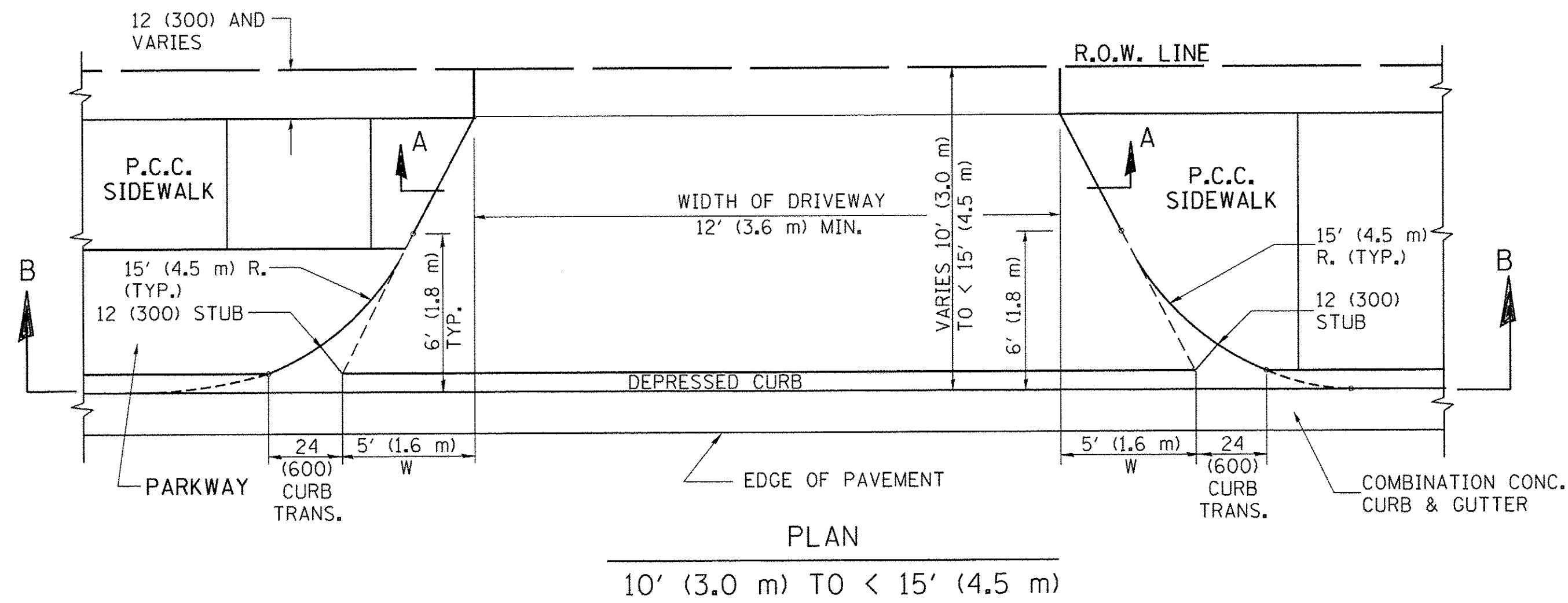
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	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
 AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	65
BD0156-07 (BD-01)			CONTRACT NO. 61D31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812				



GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

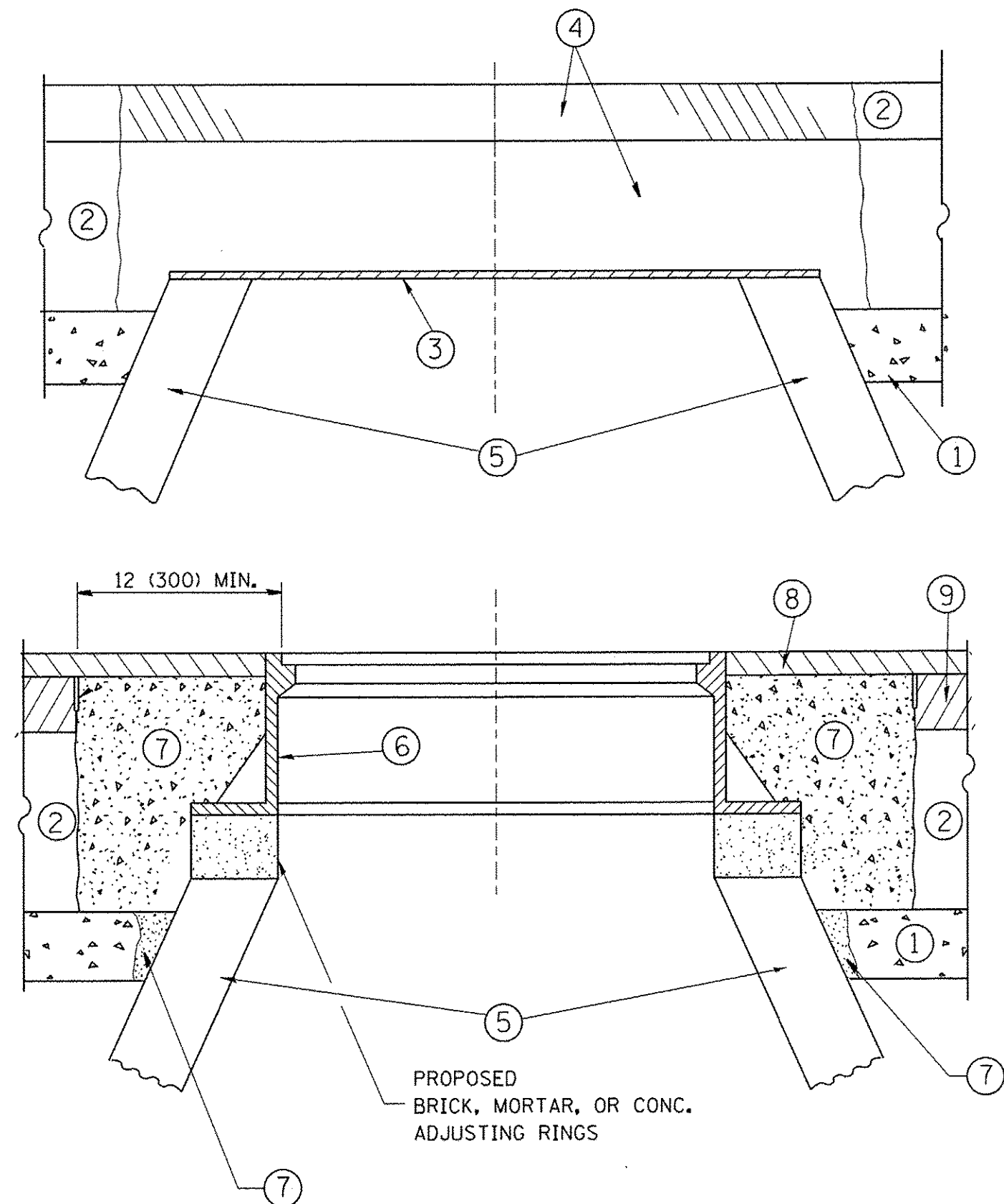
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS	
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD400-02 (BD-02)			CONTRACT NO. 61D31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

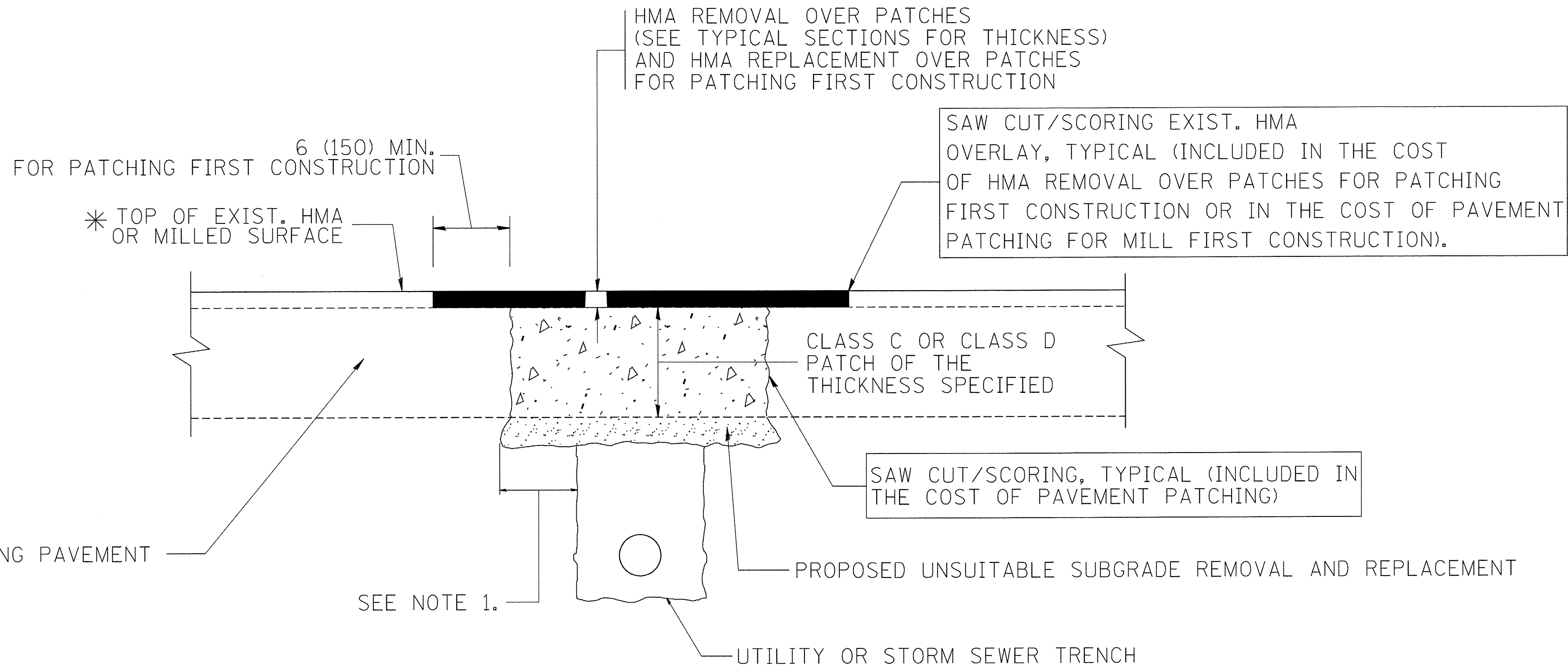
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		DATE = 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	67
BD600-03 (BD-8)		CONTRACT NO.	61D31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* 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.

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR
 HMA SURFACED PAVEMENT**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD400-04 (BD-22)			CONTRACT NO. 61D31	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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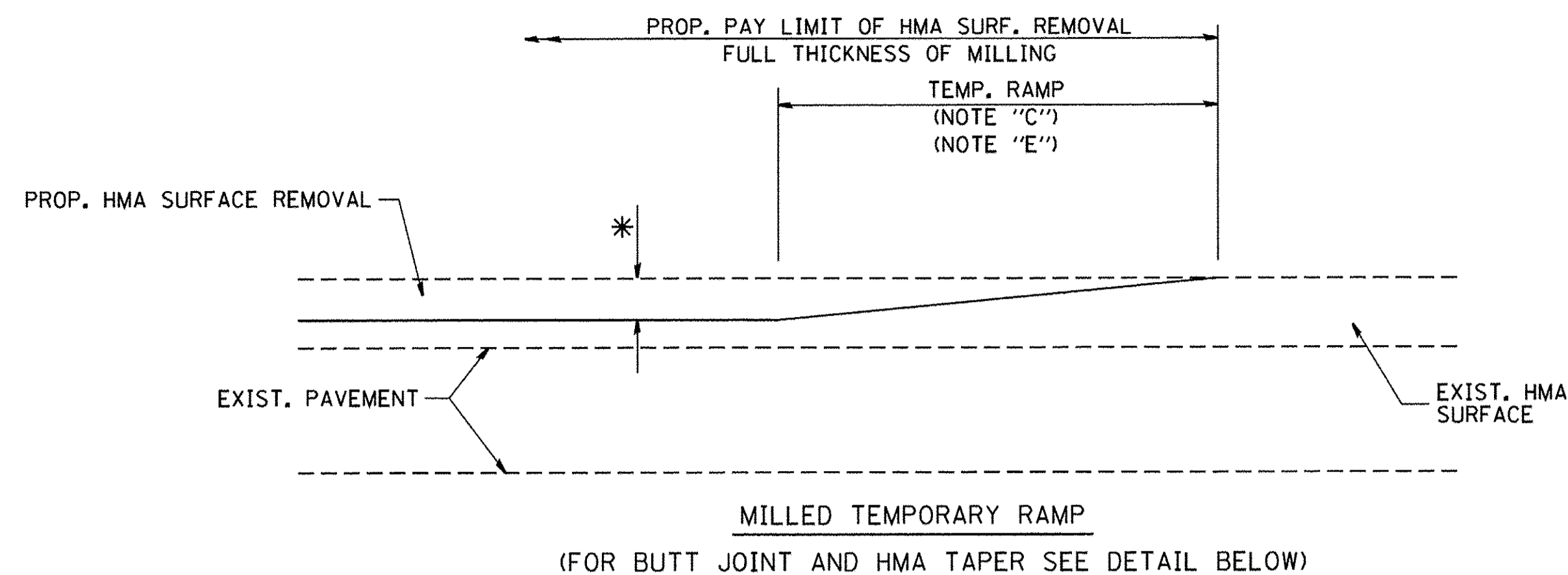
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

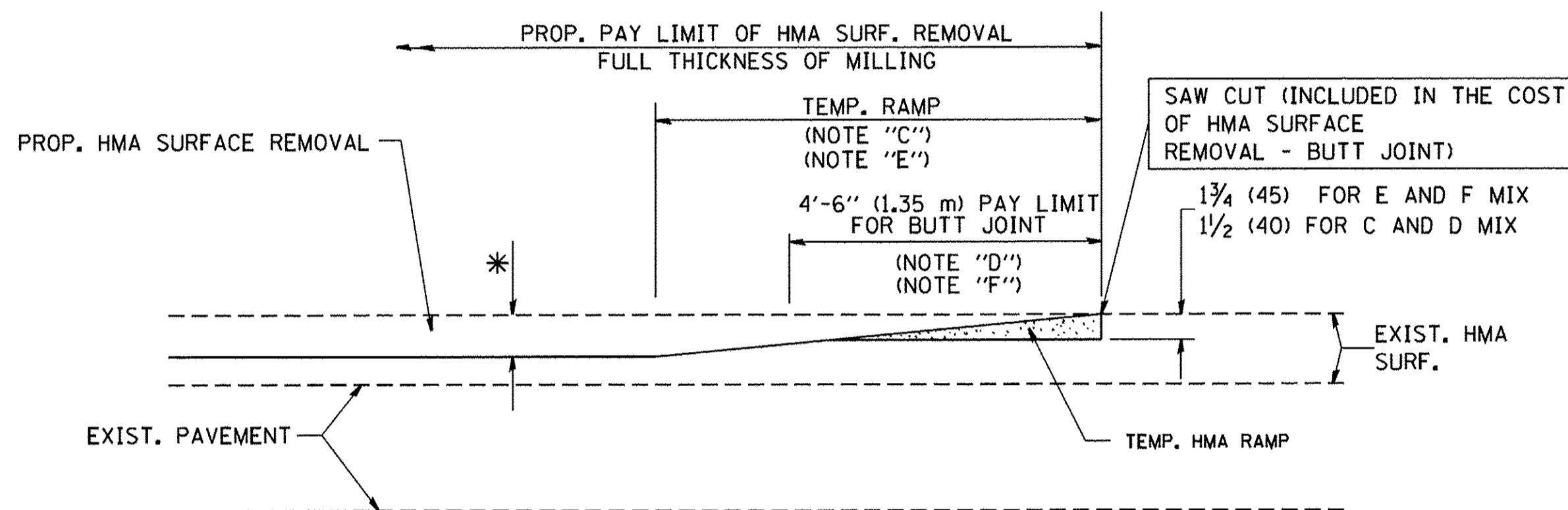
CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT

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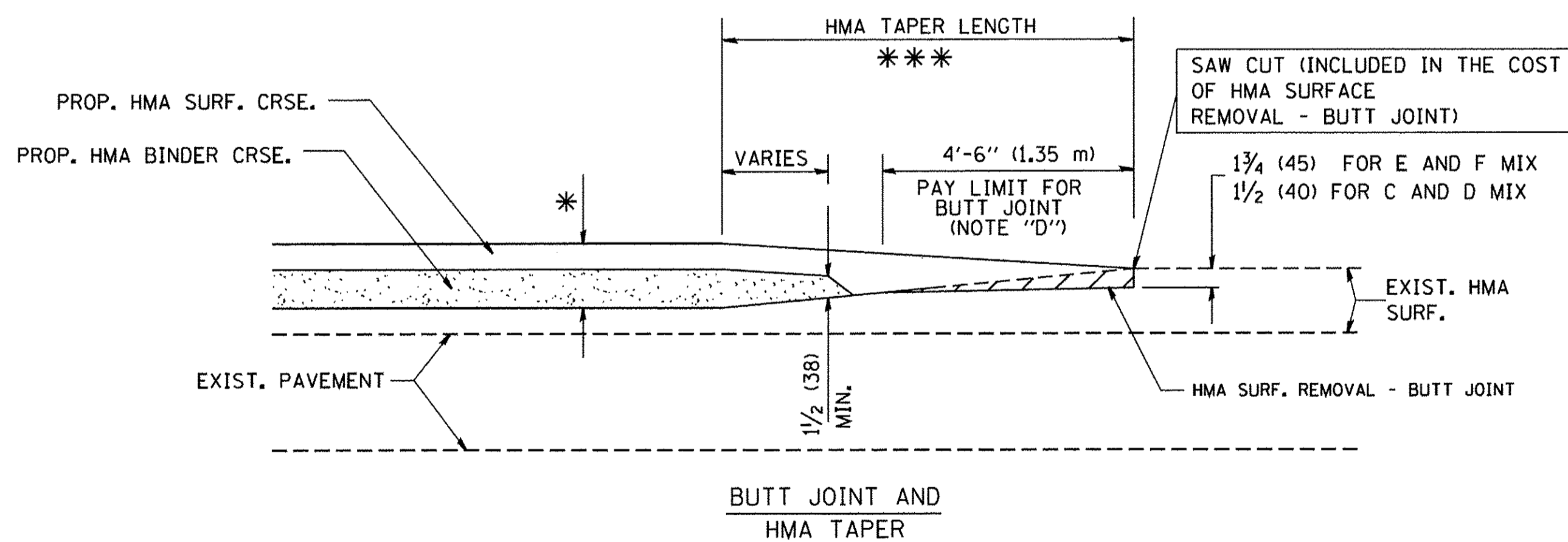
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



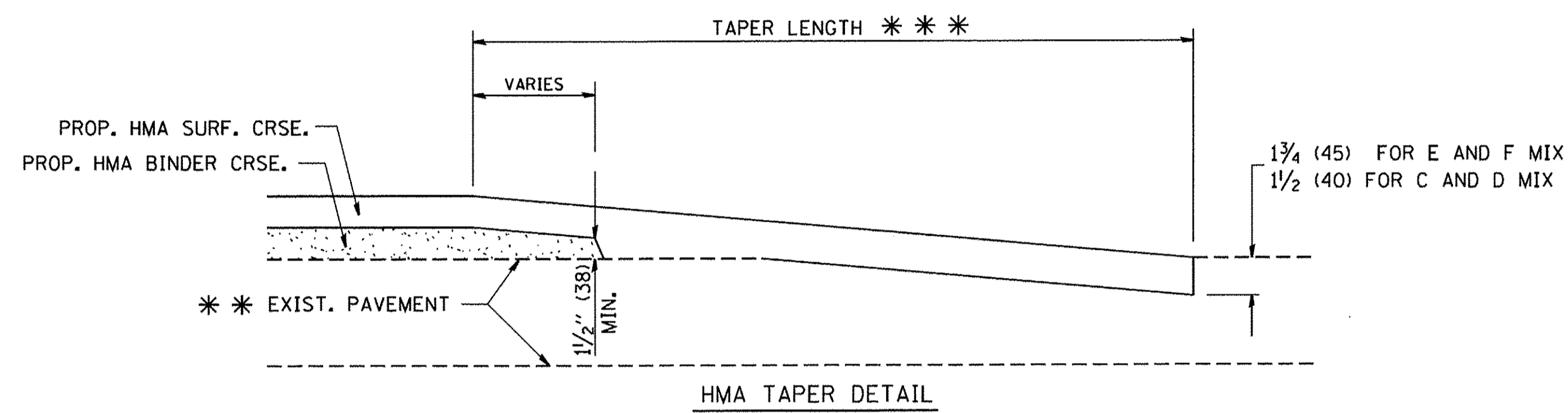
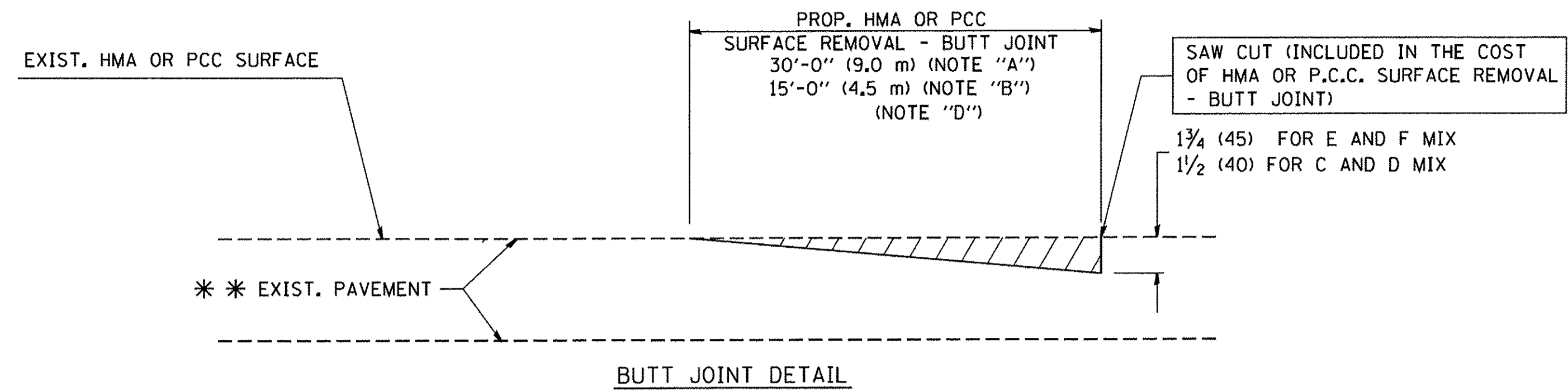
OPTION 1



**OPTION 2
TYPICAL TEMPORARY RAMP**



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



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.

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**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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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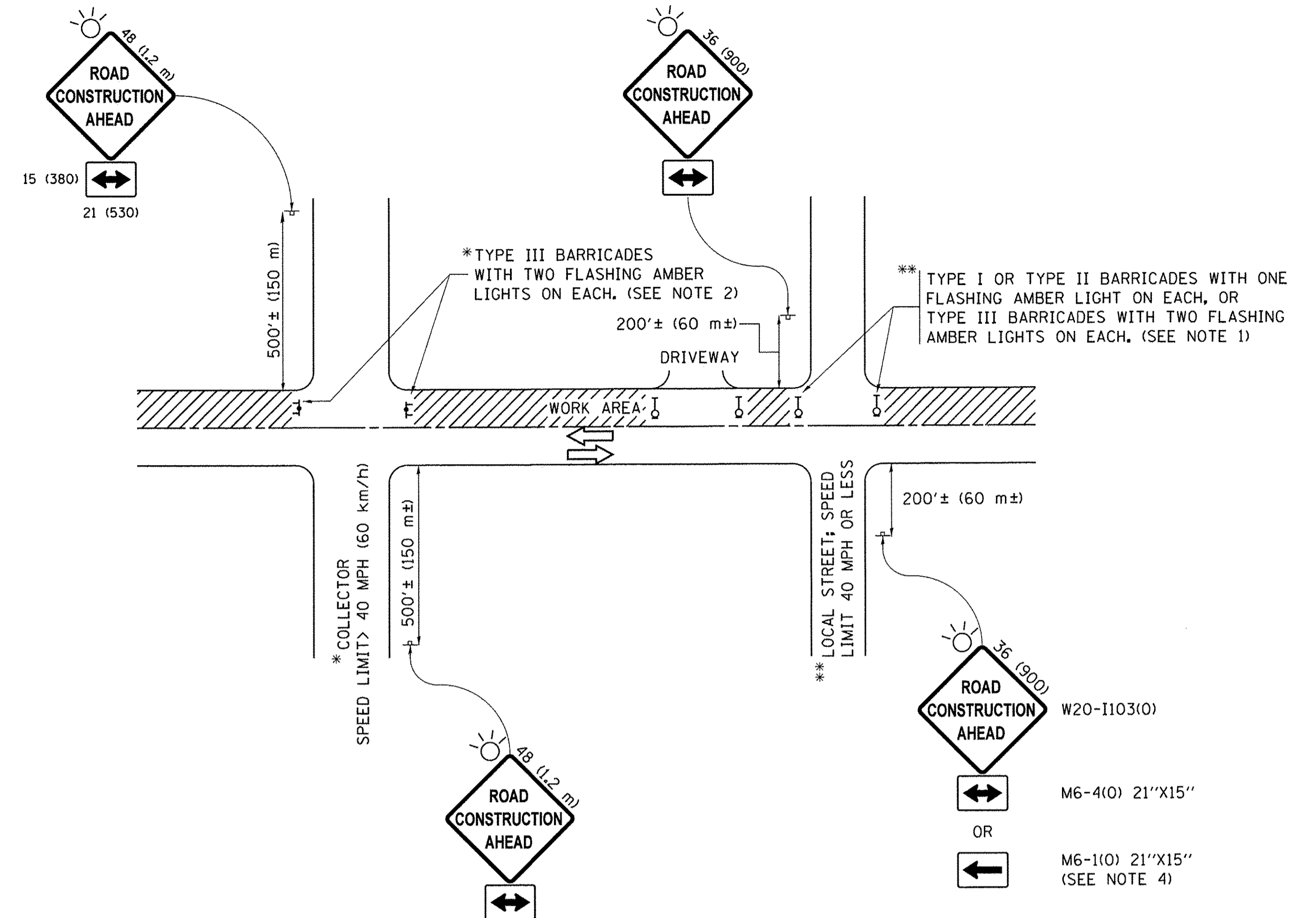
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
 SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

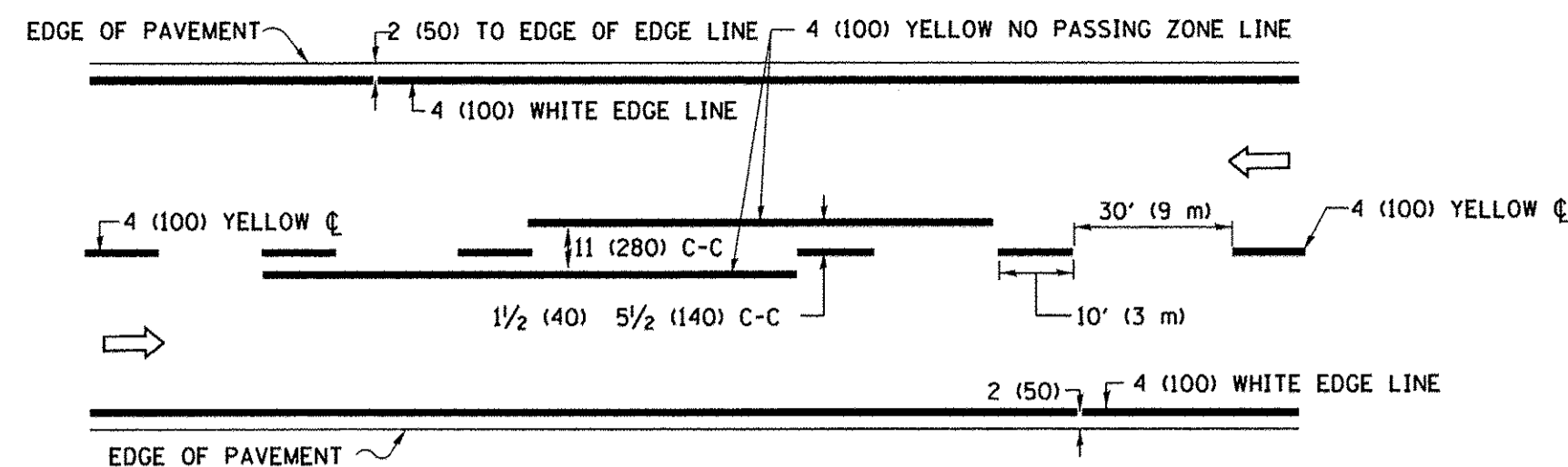
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ILLINOIS FED. AID PROJECT				



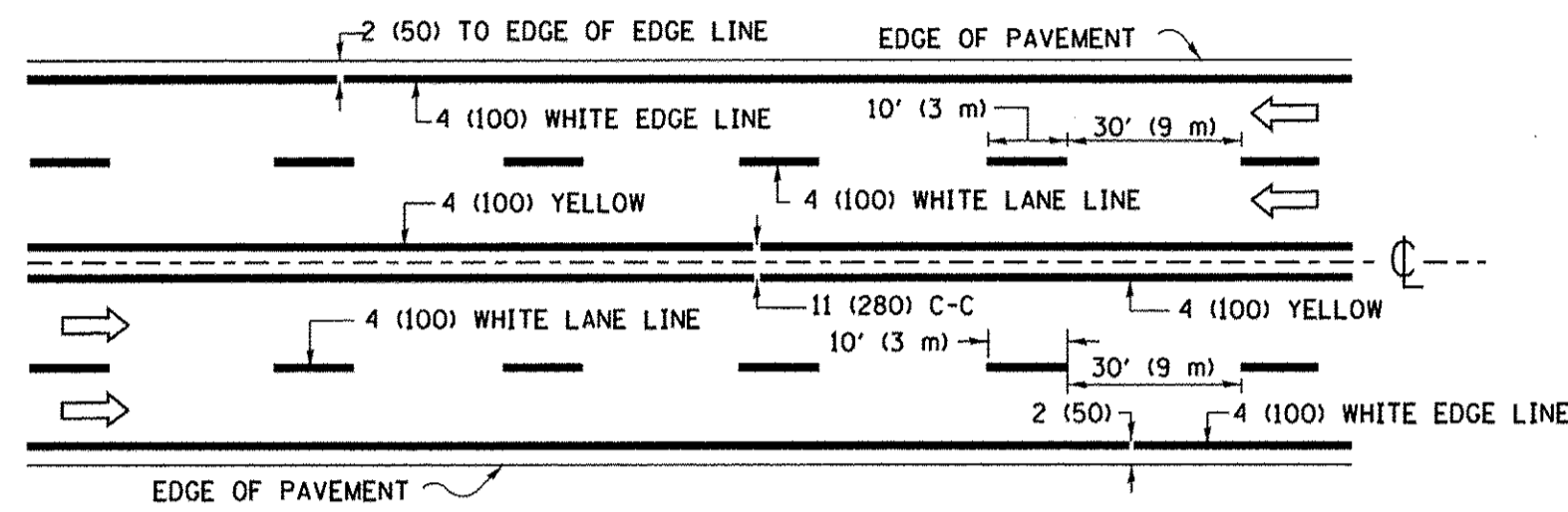
NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

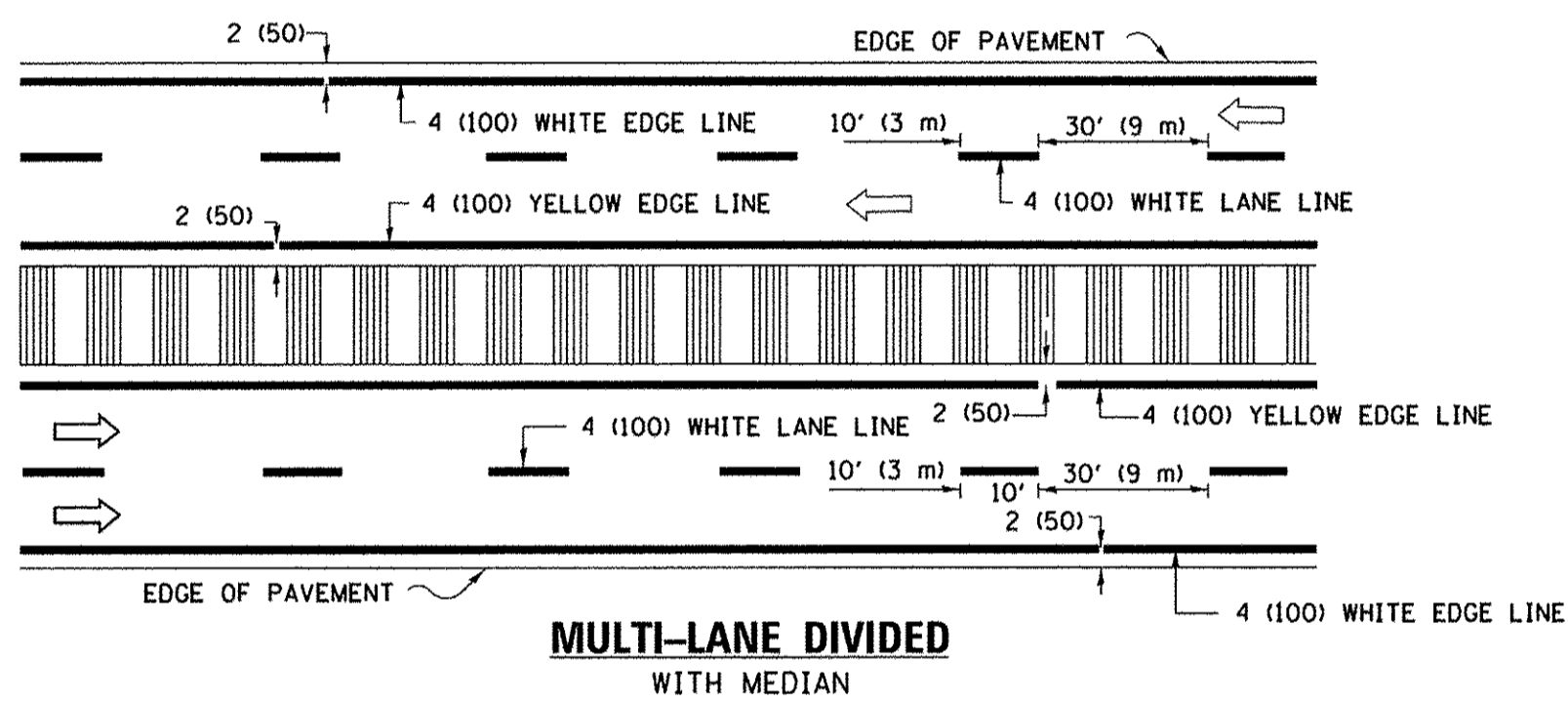
All dimensions are in inches (millimeters) unless otherwise shown.



2-LANE ROADWAY

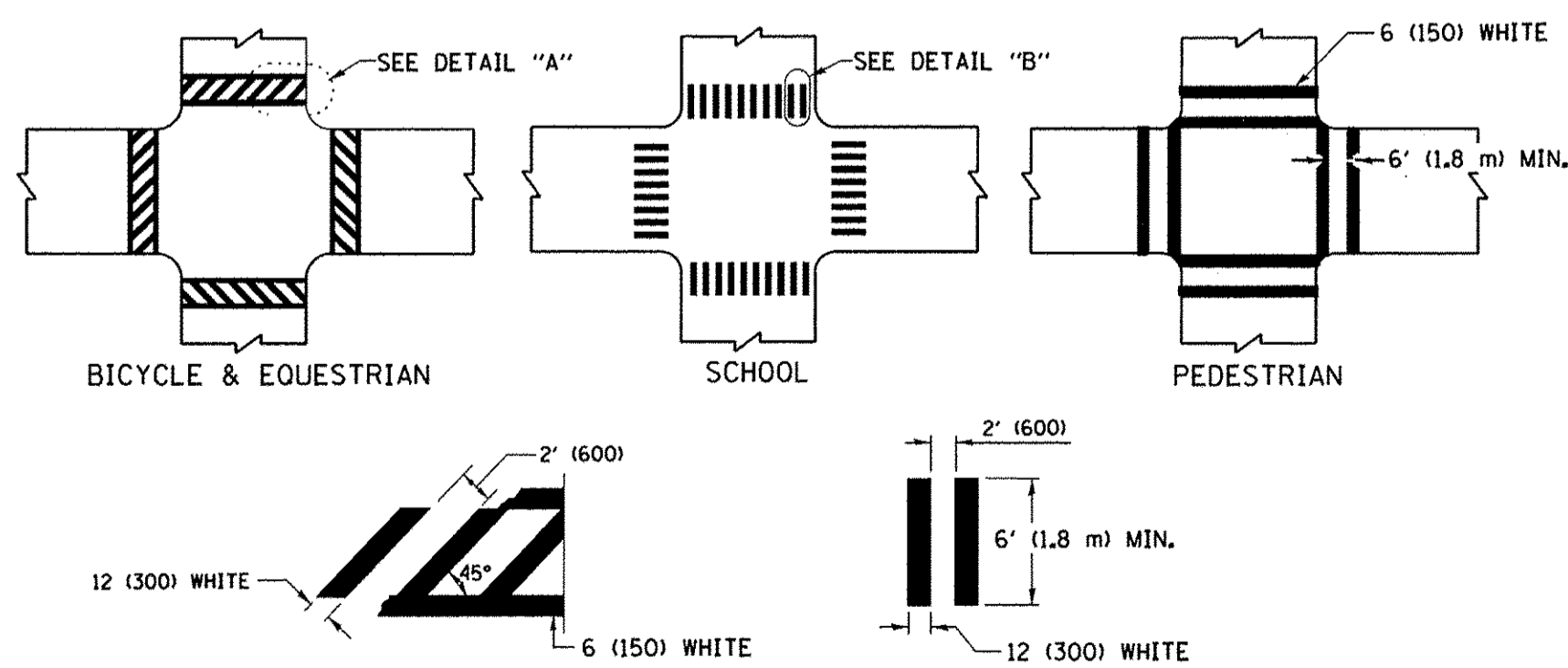


MULTI-LANE UNDIVIDED



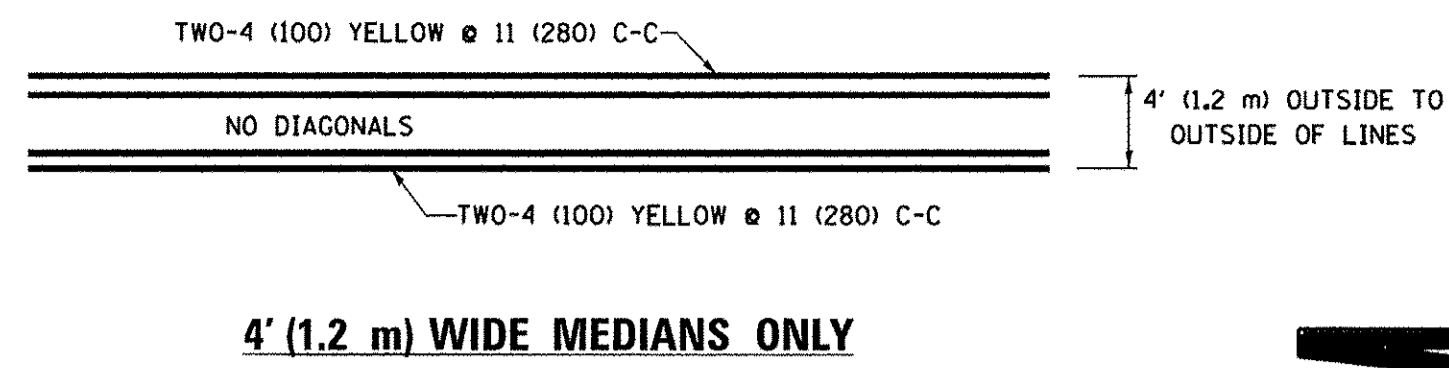
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

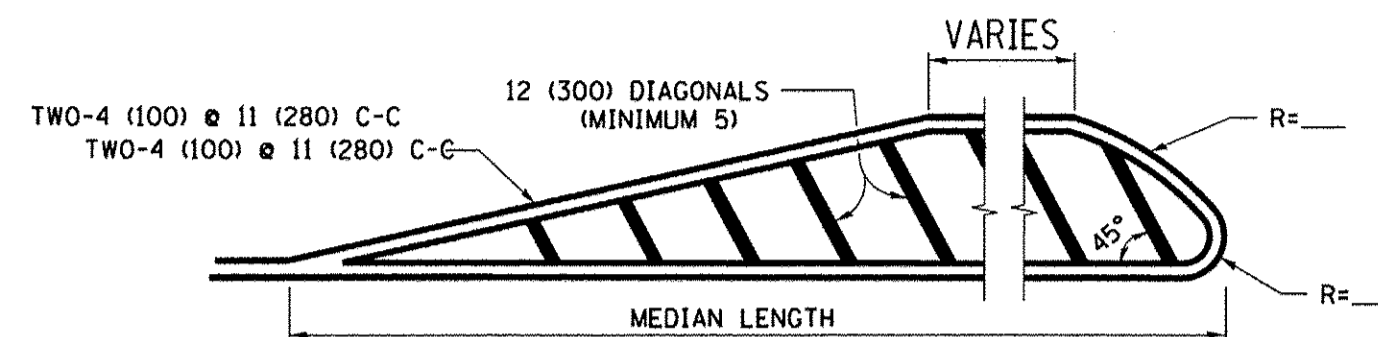


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

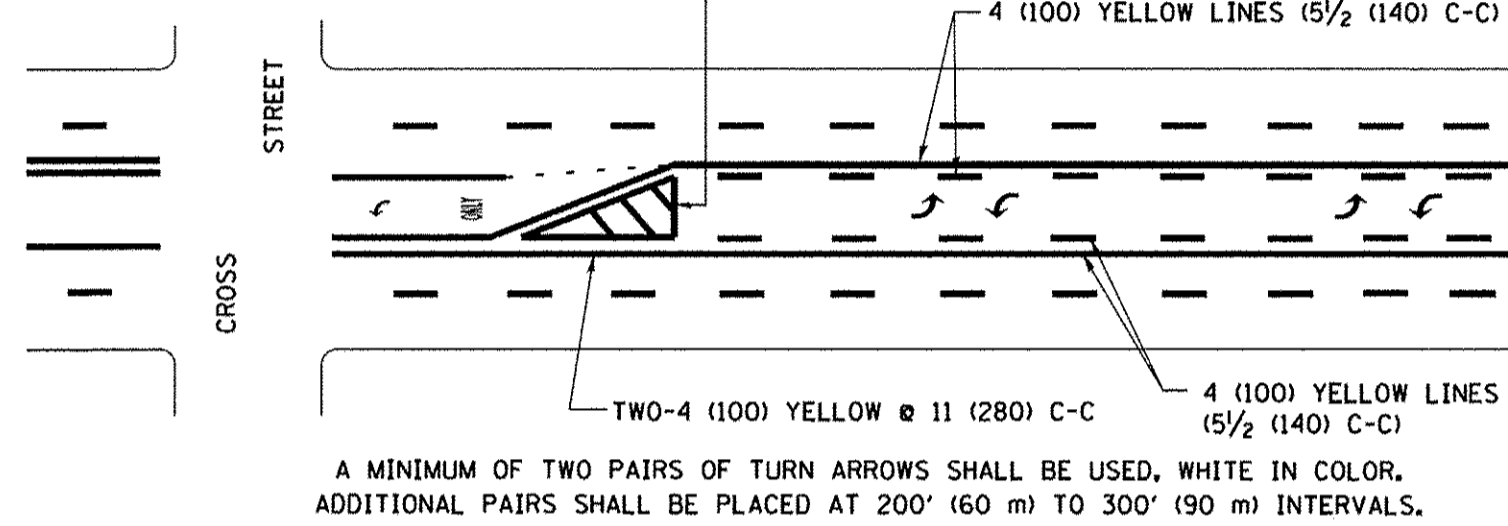


4' (1.2 m) WIDE MEDIANS ONLY

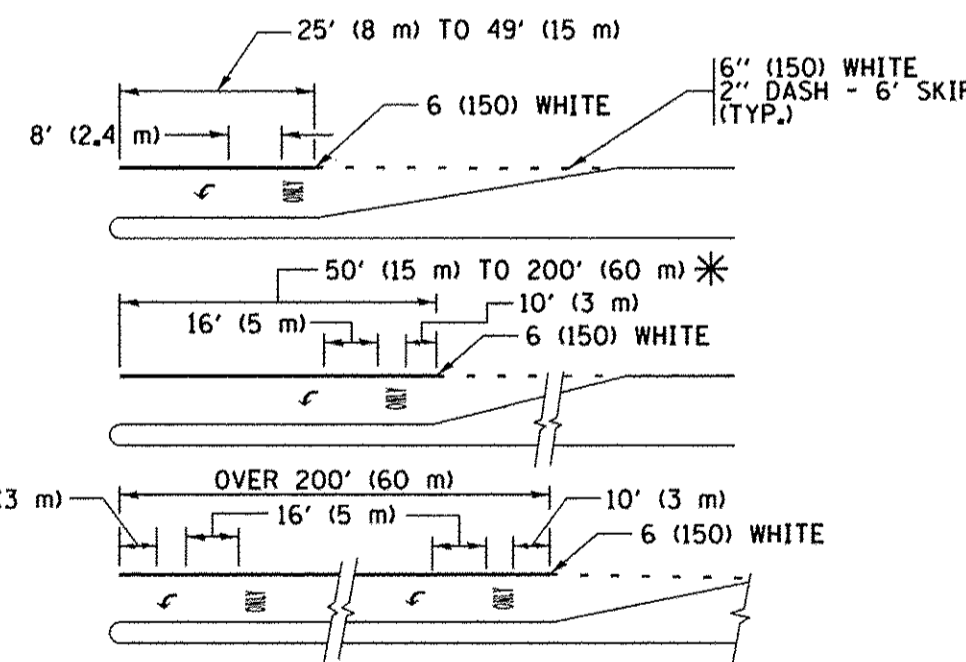


MEDIANS OVER 4' (1.2 m) WIDE

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))



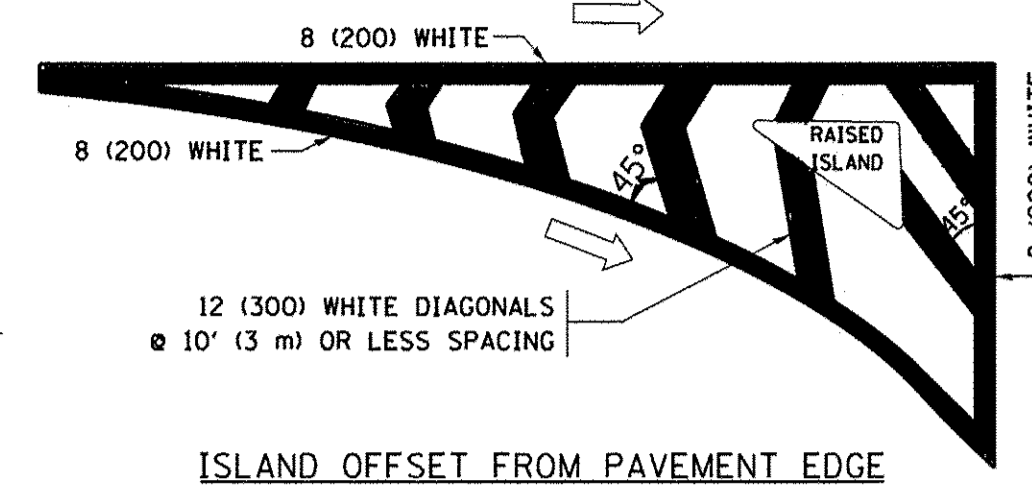
MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING



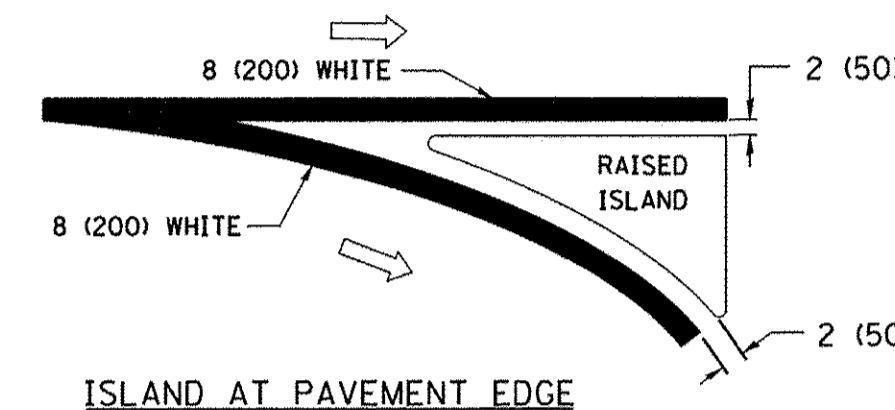
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

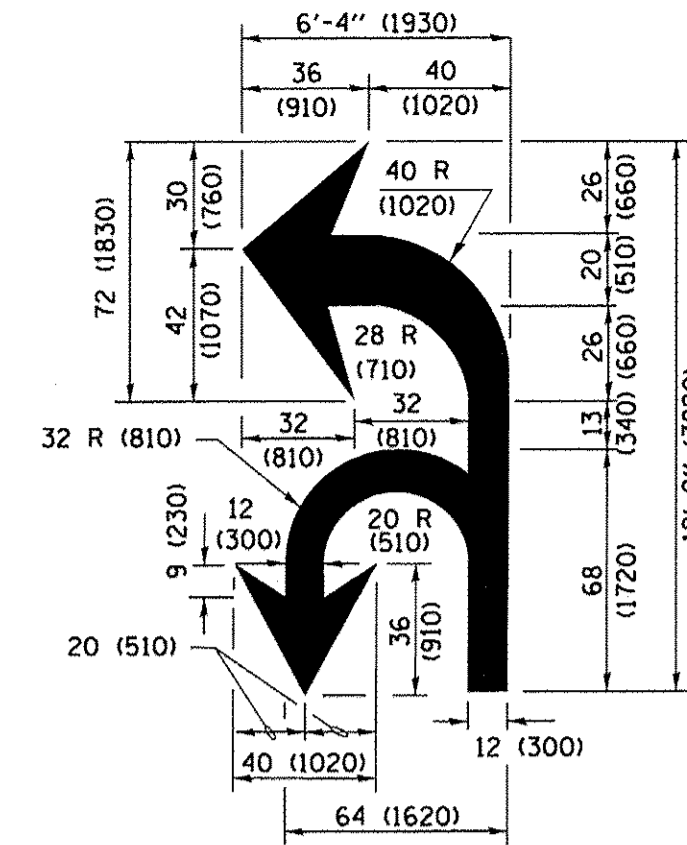


ISLAND OFFSET FROM PAVEMENT EDGE

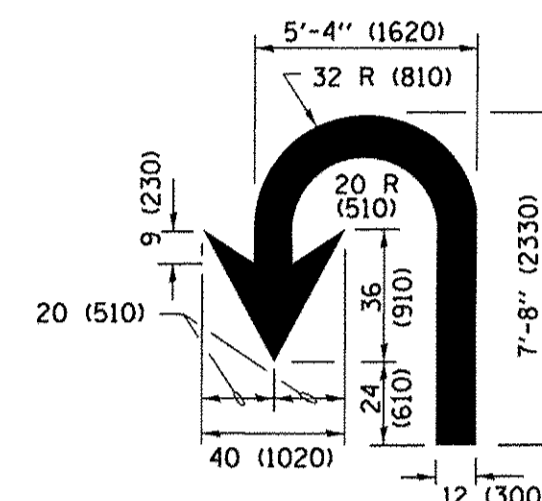


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

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 MEDIANS IN YELLOW
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 & 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 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 (REQUIRED FOR SHOULDERS ≥ 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.

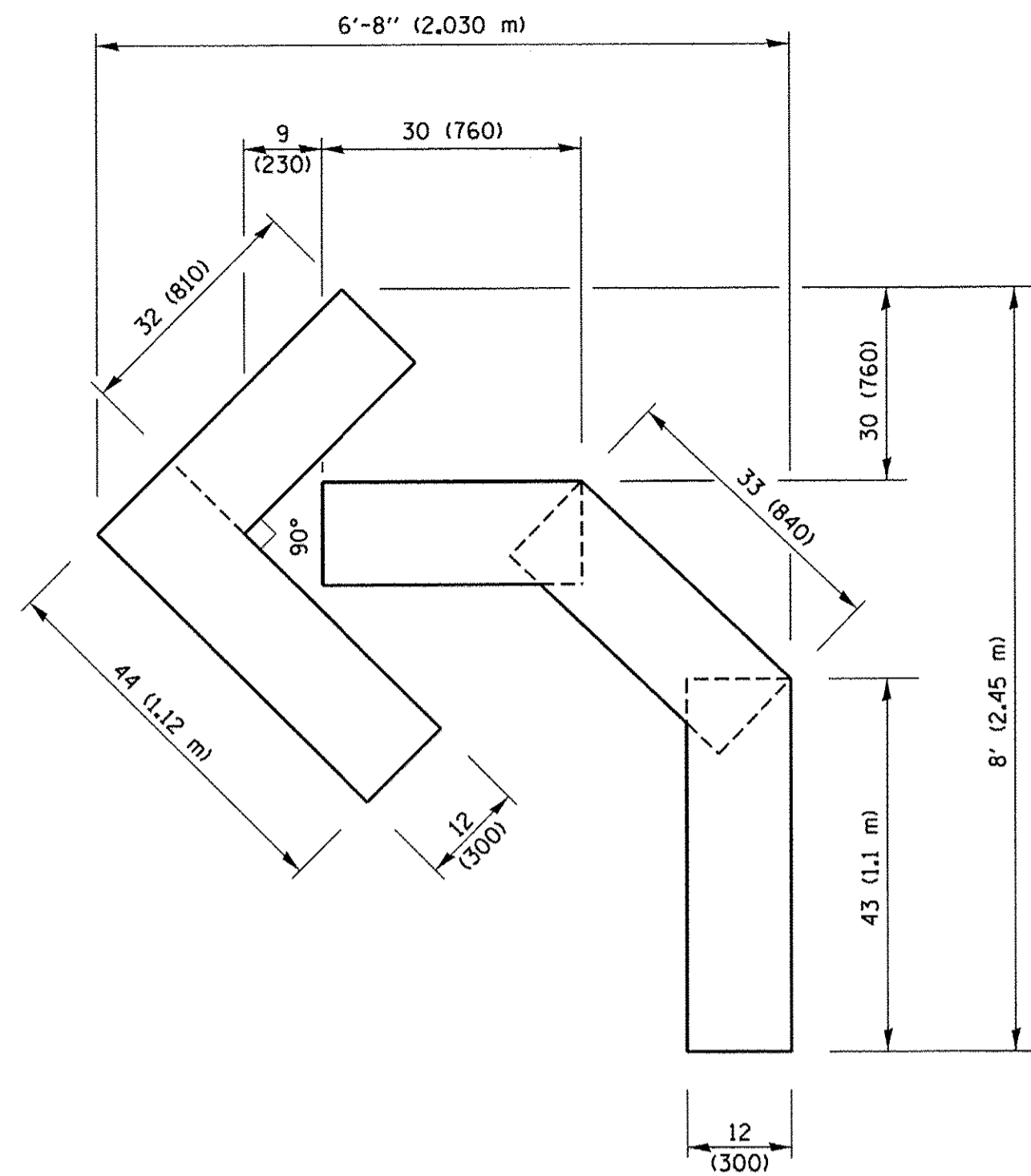
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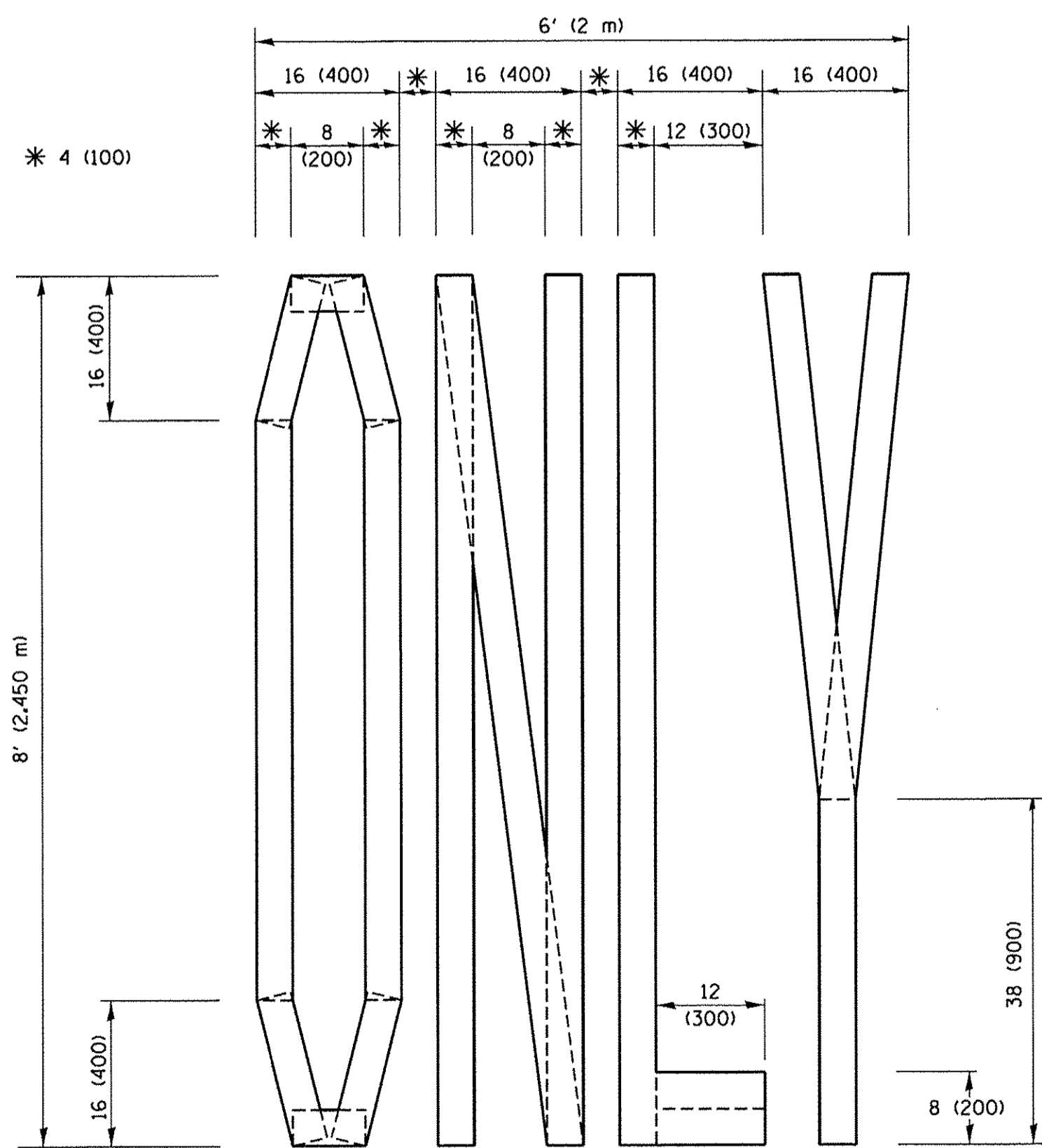
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.
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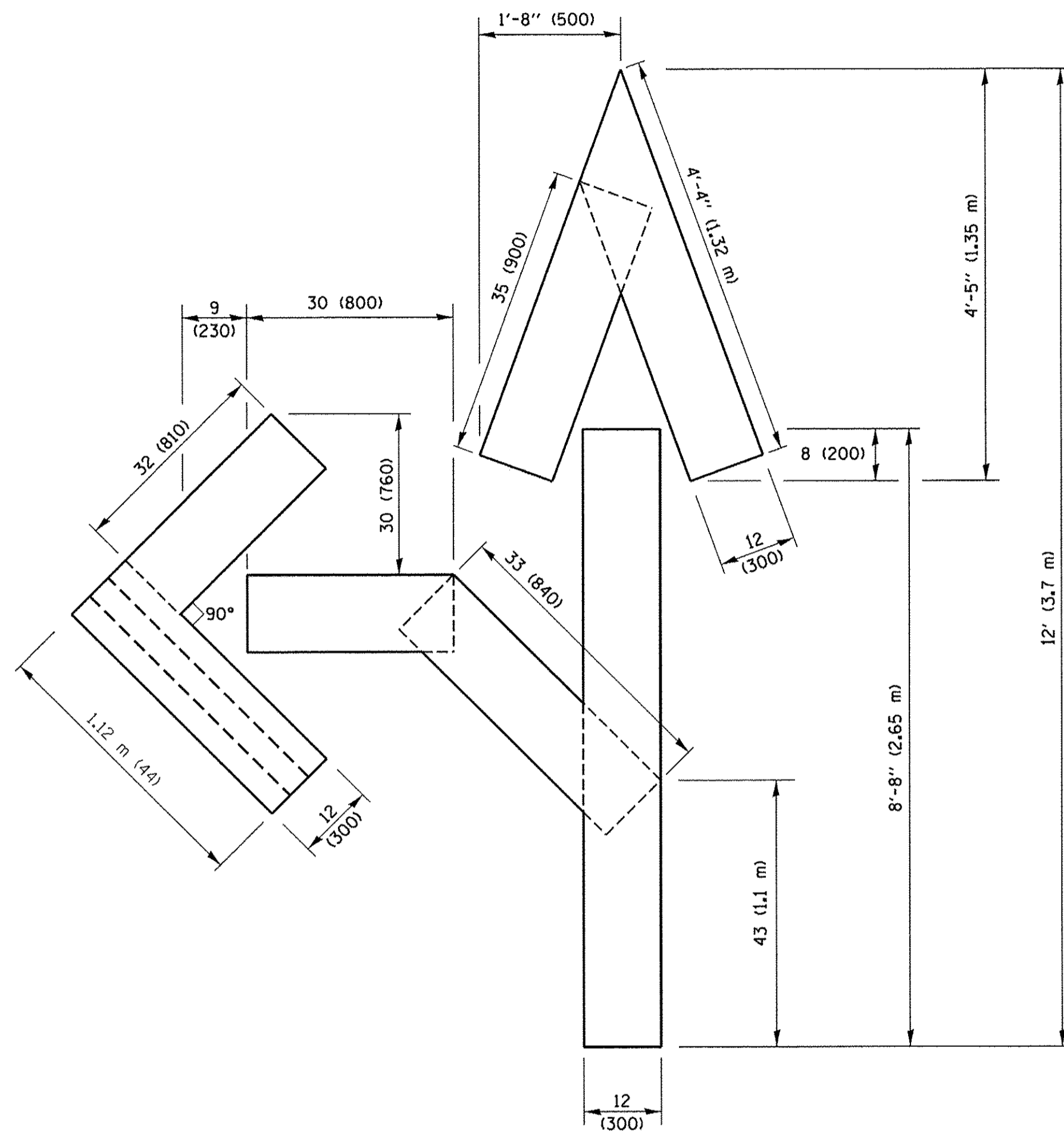
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DISTRICT ONE TYPICAL PAVEMENT MARKINGS			CONTRACT NO. 61D31	
ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)



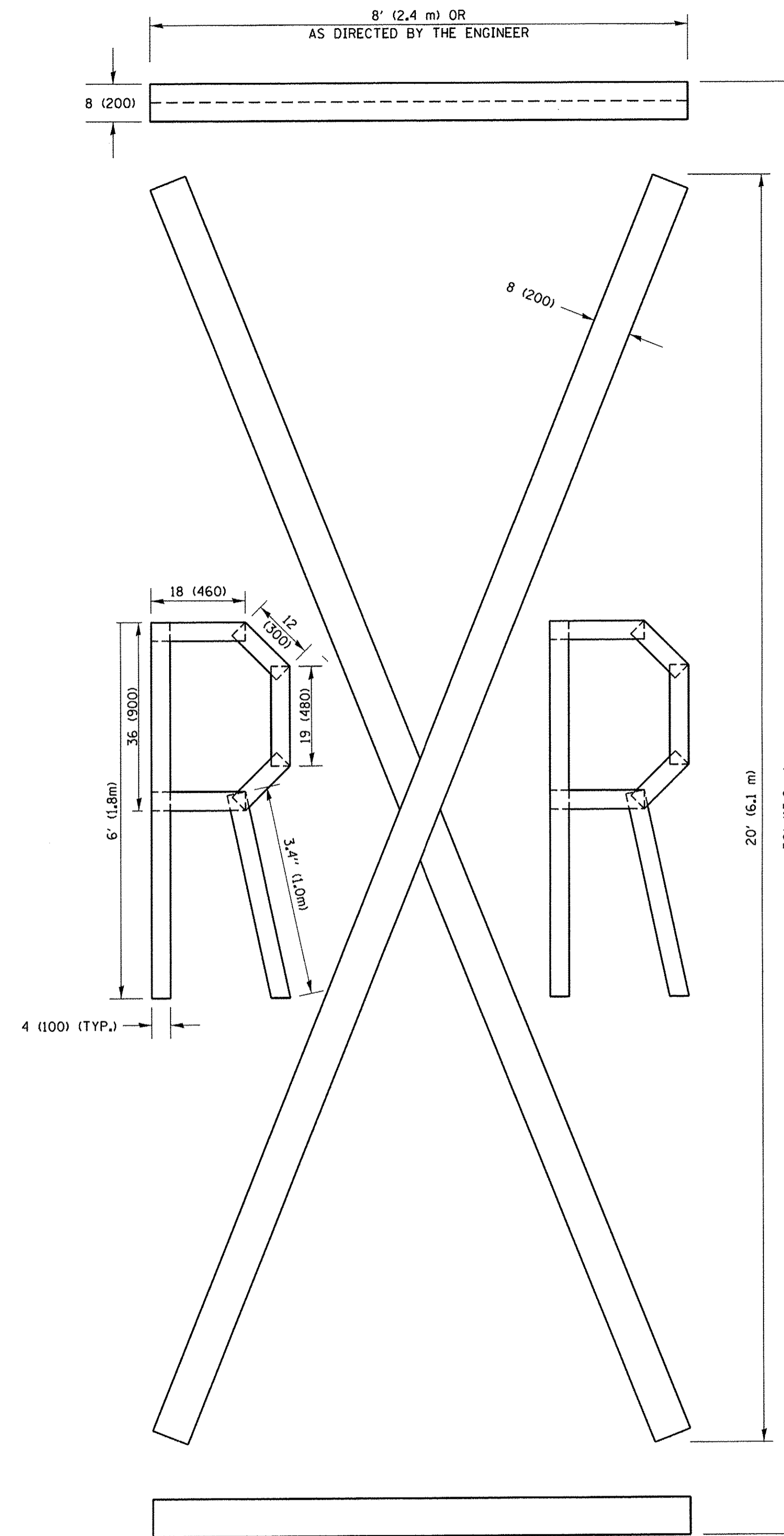
QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

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

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 CLIENT: \$CLIENT\$
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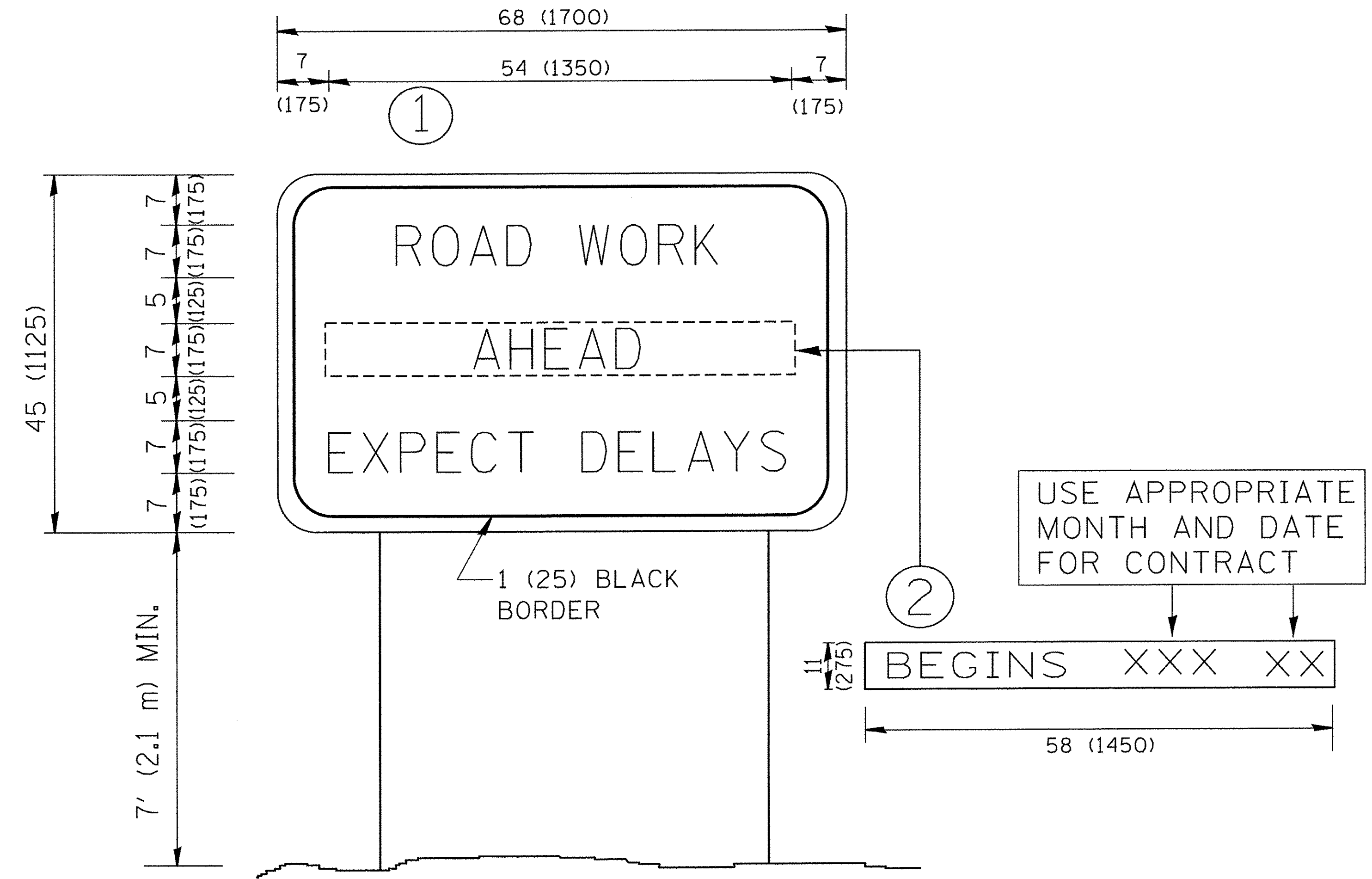
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PLOT DATE = 9/15/2016		DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	73
TC-16			CONTRACT NO. 61D31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

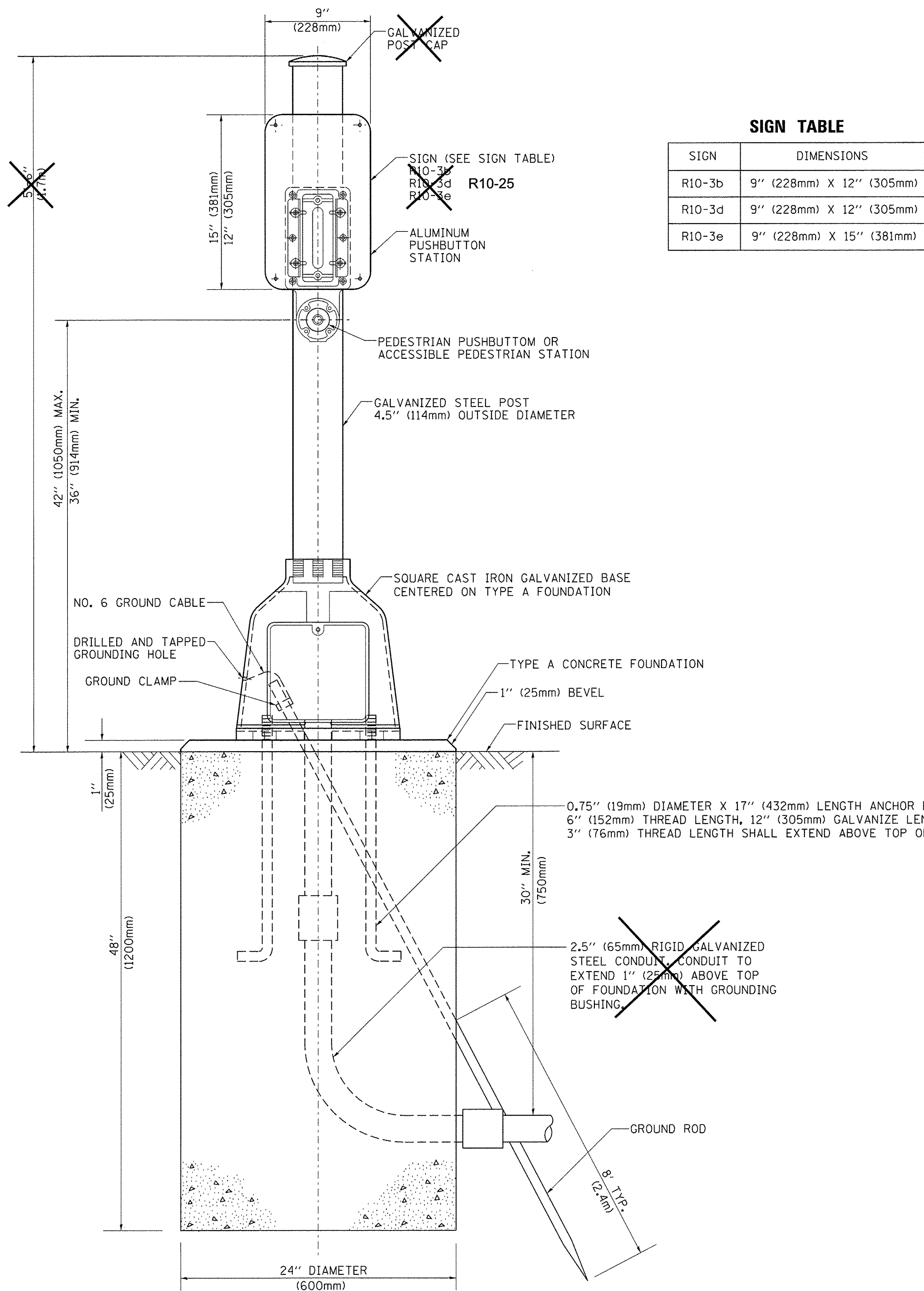
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FILE NAME =	USER NAME = goglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97
W:\dststd\22x34\cc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

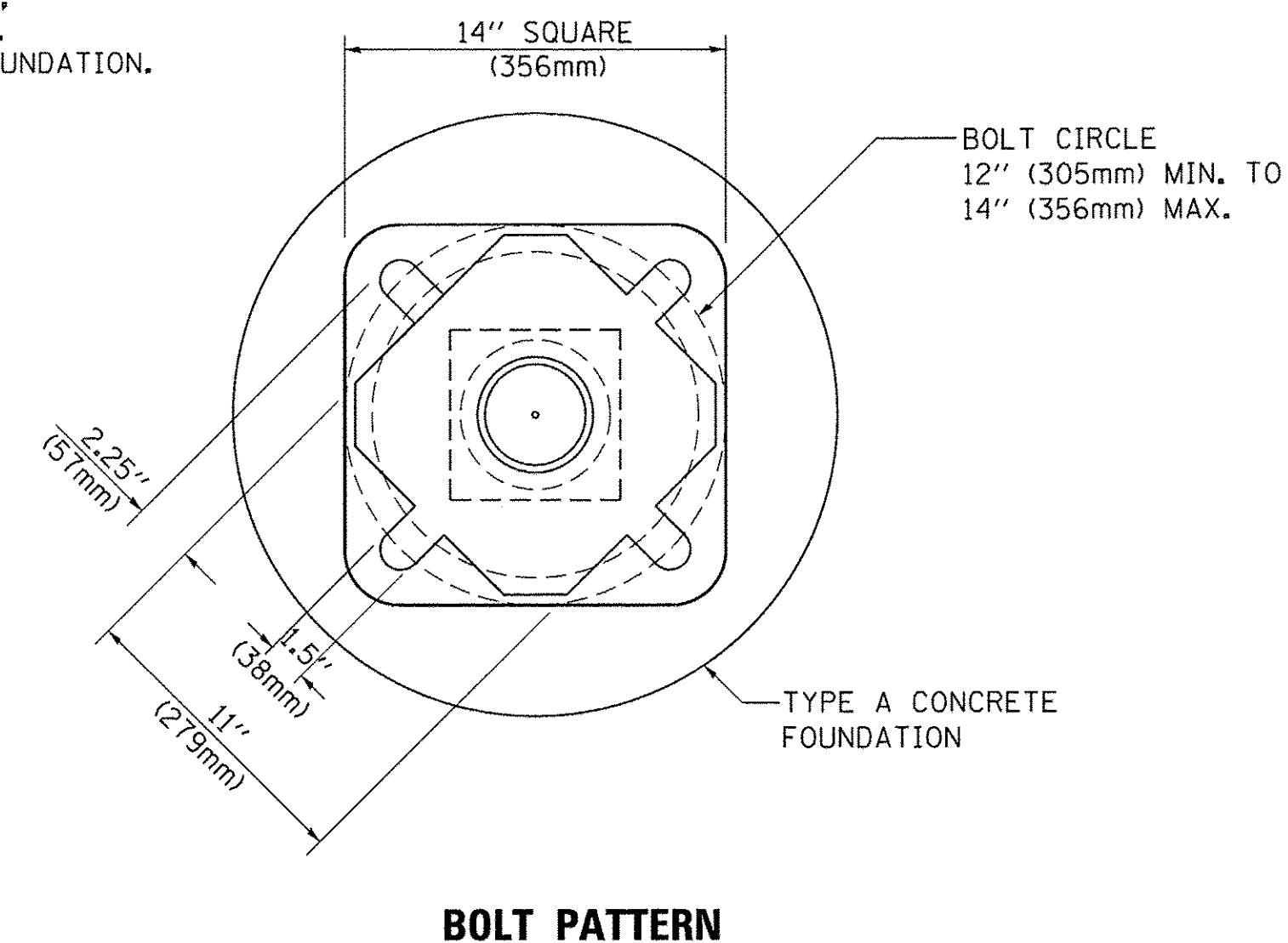
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	74
TC-22		CONTRACT NO.	61D31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)

DETAIL USED FOR CONCRETE FOUNDATION AND PEDESTRIAN PUSH BUTTON WHICH IS USED FOR FLASHING BEACON, POST MOUNTED, SOLAR POWERED INSTALLATION.



PEDESTRIAN PUSH BUTTON POST, TYPE A

COMPANY NAME: \$COMPANY_NAME\$
 PROJECT CONTACT: \$PROJECT_CONTACT\$
 CLIENT: \$CLIENT\$
 DATE PLOTTED: 12/22/2016 9:04:11 AM
 FILE NAME: 86150350-shr-det-T505p.dgn
 PLOT DRIVER: il_pwf_bwpctcrg
 PEN TABLE: pio.tbl

FILE NAME = c:\pw_work\pwwidot\footemj\d2108315\ts05.dgn	USER NAME = footemj	DESIGNED - DAC	REVISED - DAC 1-1-14
		DRAWN - GND	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

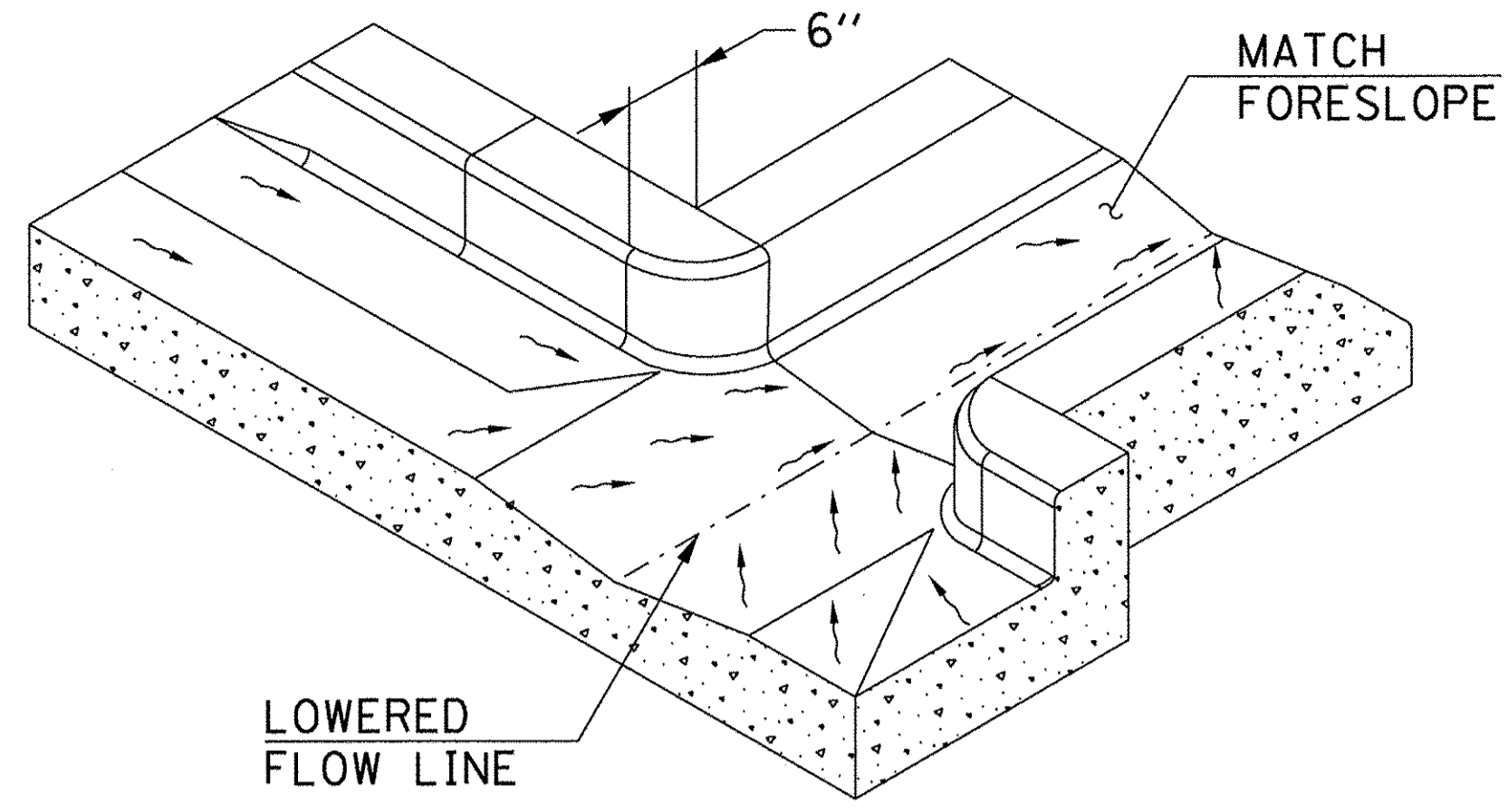
SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	75
TS-05			CONTRACT NO. 61D31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

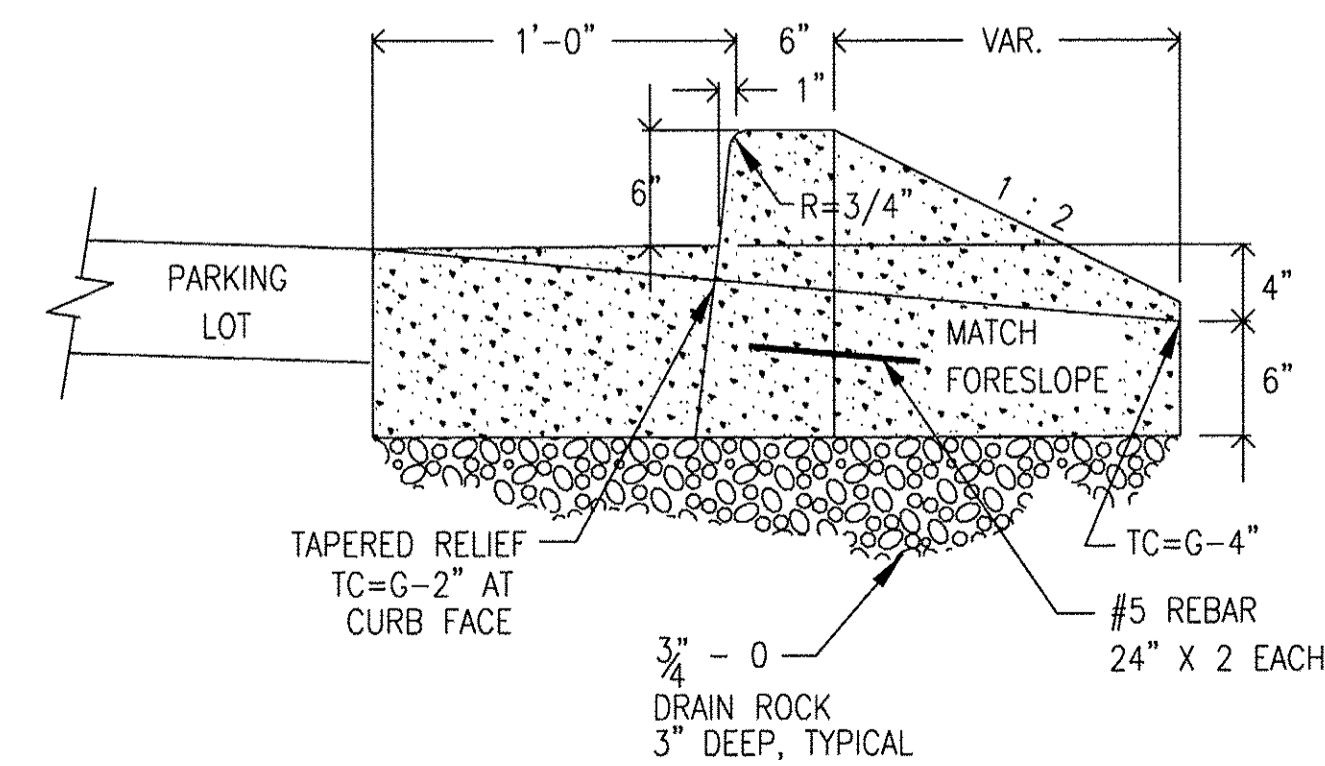
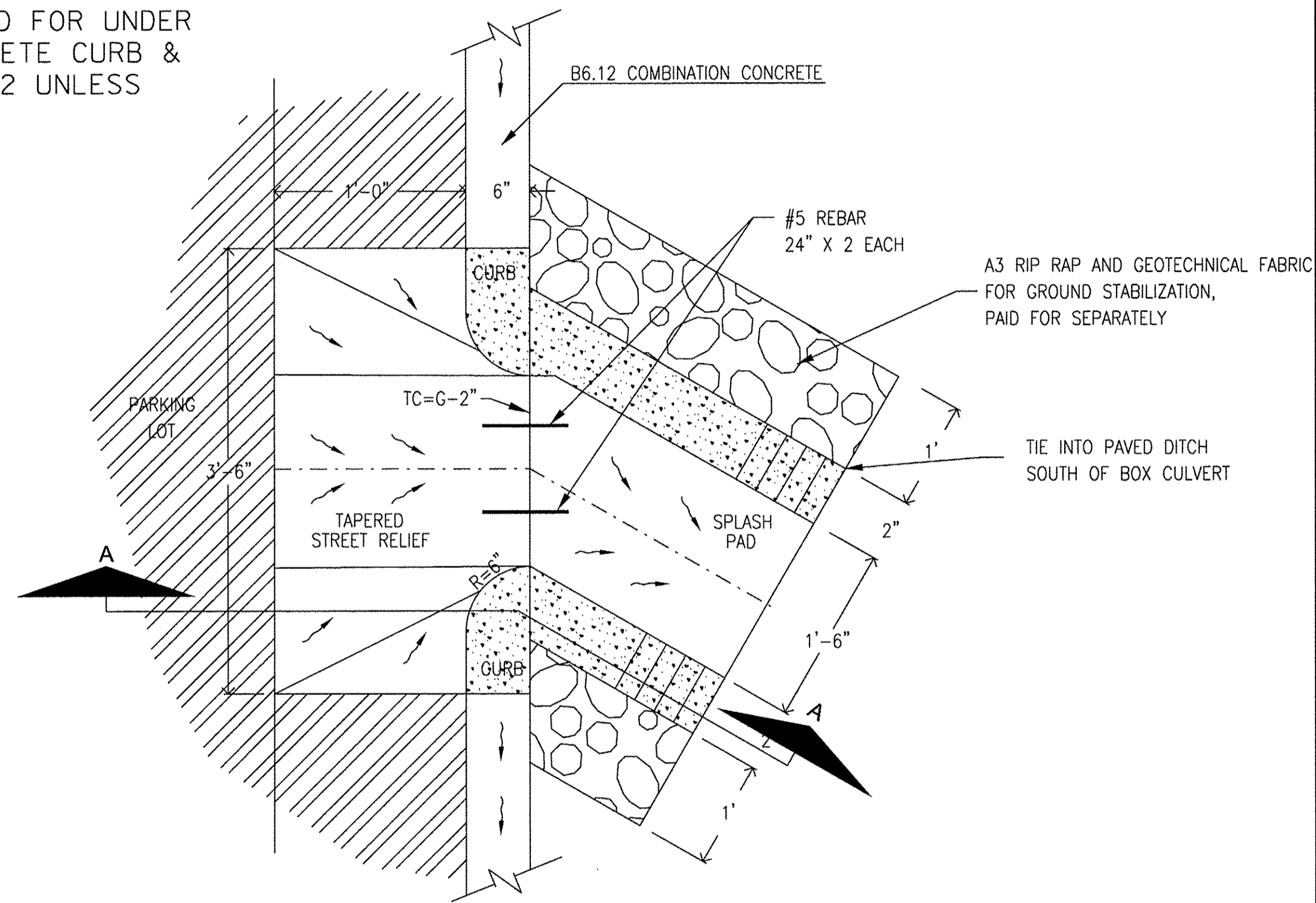
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

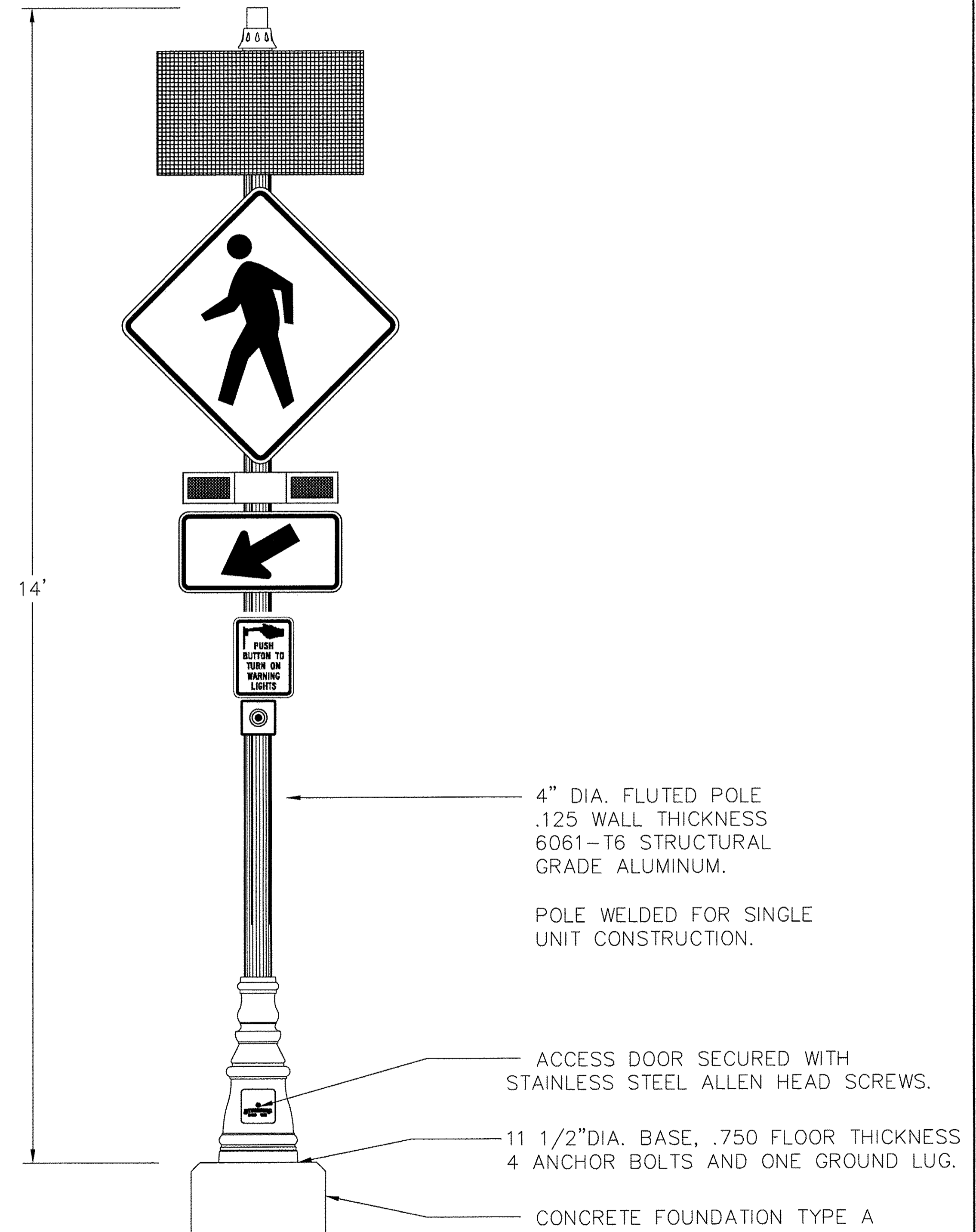
IHS PROJECT NO.: 8650350
 IHS PROJECT CONTACT: 8650350-h-cfg-01.dgn
 FILE NAME: ll_01.dwg
 PLOT DRIVER: ll_01.dwg
 PEN TABLE: to label, bi



* ALL MATERIALS PAID FOR UNDER COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 UNLESS OTHERWISE NOTED.



GUTTER OUTLET



USER NAME =	mzuzzio	DESIGNED -	MZ	REVISED -	
		DRAWN -	DMS	REVISED -	
PLOT SCALE =	NTS	CHECKED -		REVISED -	
PLOT DATE =	12/22/2016	DATE -	12/22/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

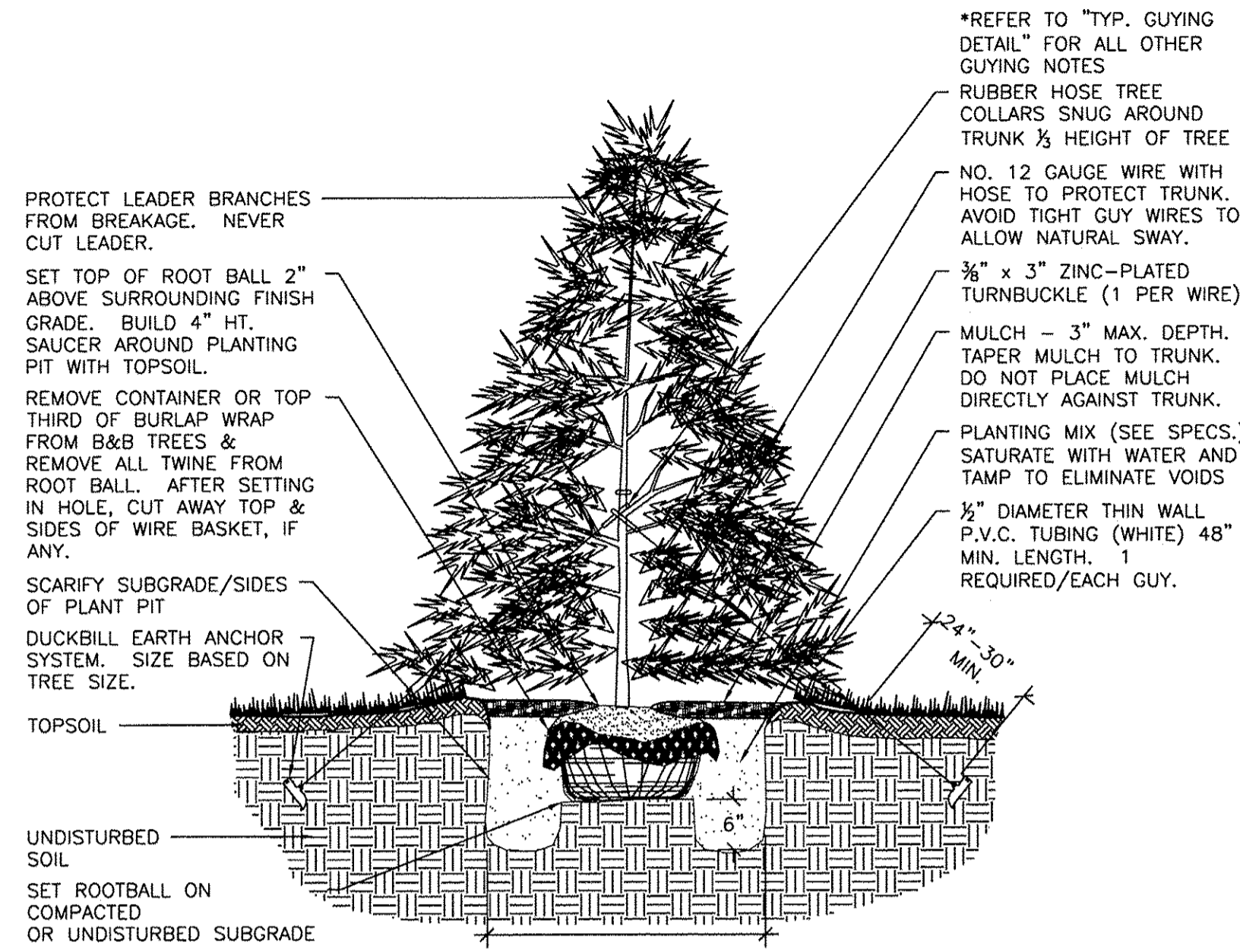
CONSTRUCTION DETAILS

SCALE: NTS	SHEET NO. 13 OF 15 SHEETS	STA. _____ TO STA. _____	MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
			8500	15-00013-00-PV	MCHENRY	95	76
							CONTRACT NO. 61031
							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)

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

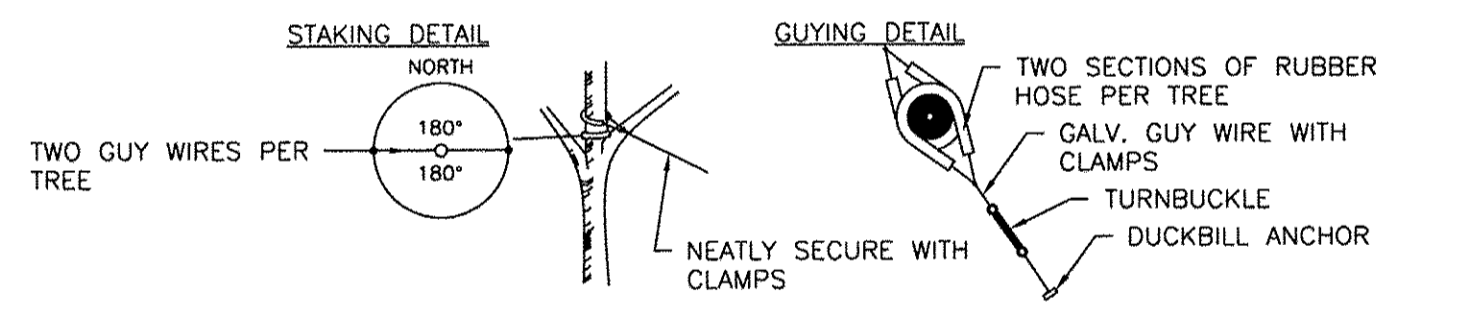
PROFILE	SURVEYED	DATE
NOTE BOOK	CHECKED	BY
NO.	STRUCTURE NOTATION'S CHFD	

HRG PROJECT NO.: 8650350
 HRG PROJ CONTACT: 8650350-n -de -02.dgn
 FILE NAME: IL_cfl_b . / cflg
 PLOT DRIVER: la label, bl
 PEN TABLE:



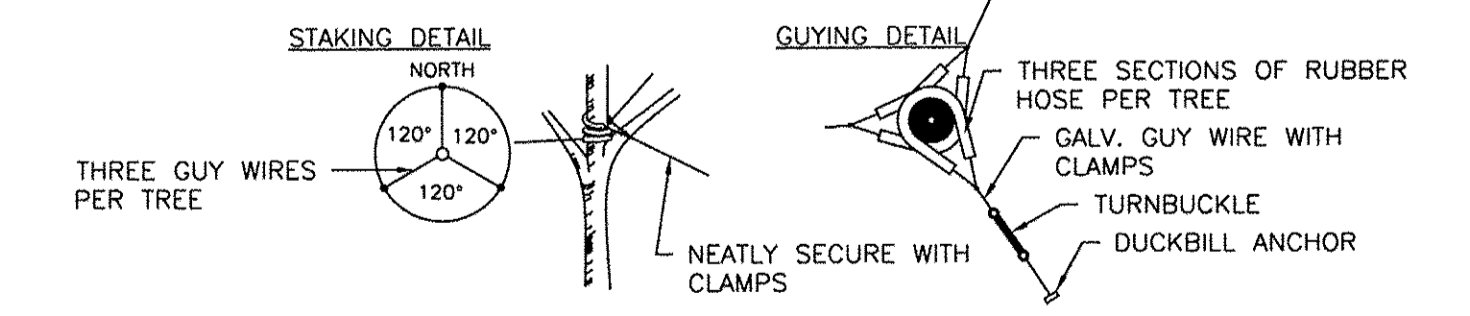
2 TYP. EVERGREEN TREE PLANTING DETAIL
 SCALE: NTS

- GUYING STANDARDS**
- TWO (2) MODEL 68 DUCKBILL ANCHORS (HOLDING CAPACITY 1100# PER ANCHOR IN NORMAL SOIL.
 - 13' OF 1/8" 7x7 GALVANIZED STEEL CABLE WITH TURNBUCKLE ATTACHED MID-CABLE.
 - 1/2" DIAMETER THIN WALL P.V.C. TUBING (WHITE) 48" MINIMUM LENGTH. ONE (1) REQUIRED/EACH GUY.
 - TWO (2) TURNBUCKLES, EYE AND EYE TYPE, 3/8" THREAD DIAMETER WITH 3" TAKE-UP
 - FOUR (4) 1/4" CABLE CLAMPS, ZINC PLATED (DR-2 STEEL DRIVE ROD 2' LONG WITH 1/4" ROUND DRIVING TIP NEEDED TO INSTALL ANCHORS. ONE ROD, NOT INCLUDED IN KIT, DRIVES HUNDREDS OF ANCHORS)
 - TWO (2) RUBBER HOSE TREE COLLARS, 21" LONG, EA

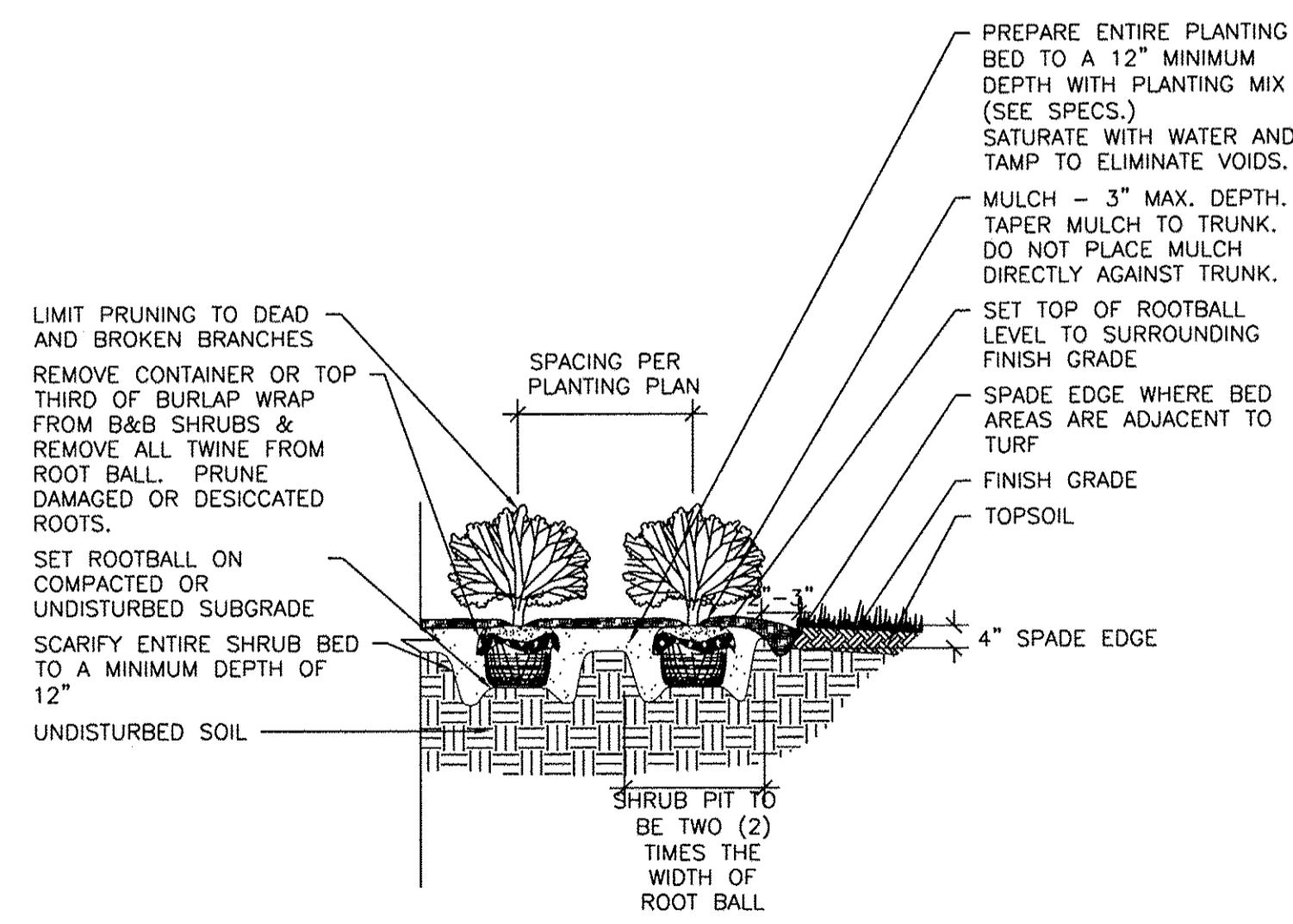


*APPLIES TO SINGLE TRUNK DECIDUOUS TREES 3" CAL. AND LESS & EVERGREEN TREES 8' HT. AND LESS

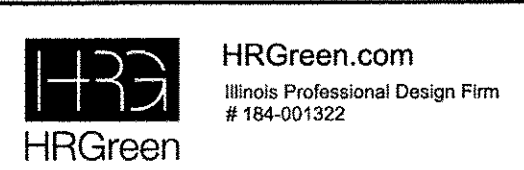
- GUYING STANDARDS**
- THREE (3) MODEL 68 DUCKBILL ANCHORS (HOLDING CAPACITY 1100# PER ANCHOR IN NORMAL SOIL.
 - 13' OF 1/8" 7x7 GALVANIZED STEEL CABLE WITH TURNBUCKLE ATTACHED MID-CABLE.
 - 1/2" DIAMETER THIN WALL P.V.C. TUBING (WHITE) 48" MINIMUM LENGTH. ONE (1) REQUIRED/EACH GUY.
 - THREE (3) TURNBUCKLES, EYE AND EYE TYPE, 3/8" THREAD DIAMETER WITH 3" TAKE-UP
 - SIX (6) 1/4" CABLE CLAMPS, ZINC PLATED (DR-2 STEEL DRIVE ROD 2' LONG WITH 1/4" ROUND DRIVING TIP NEEDED TO INSTALL ANCHORS. ONE ROD, NOT INCLUDED IN KIT, DRIVES HUNDREDS OF ANCHORS)
 - THREE (3) RUBBER HOSE TREE COLLARS, 21" LONG, EA



4 TYP. GUYING DETAIL
 SCALE: NTS



3 TYP. SHRUB PLANTING DETAIL
 SCALE: NTS



USER NAME = mzuz21o	DESIGNED - MZ	REVISED -
PLOT SCALE = NTS	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

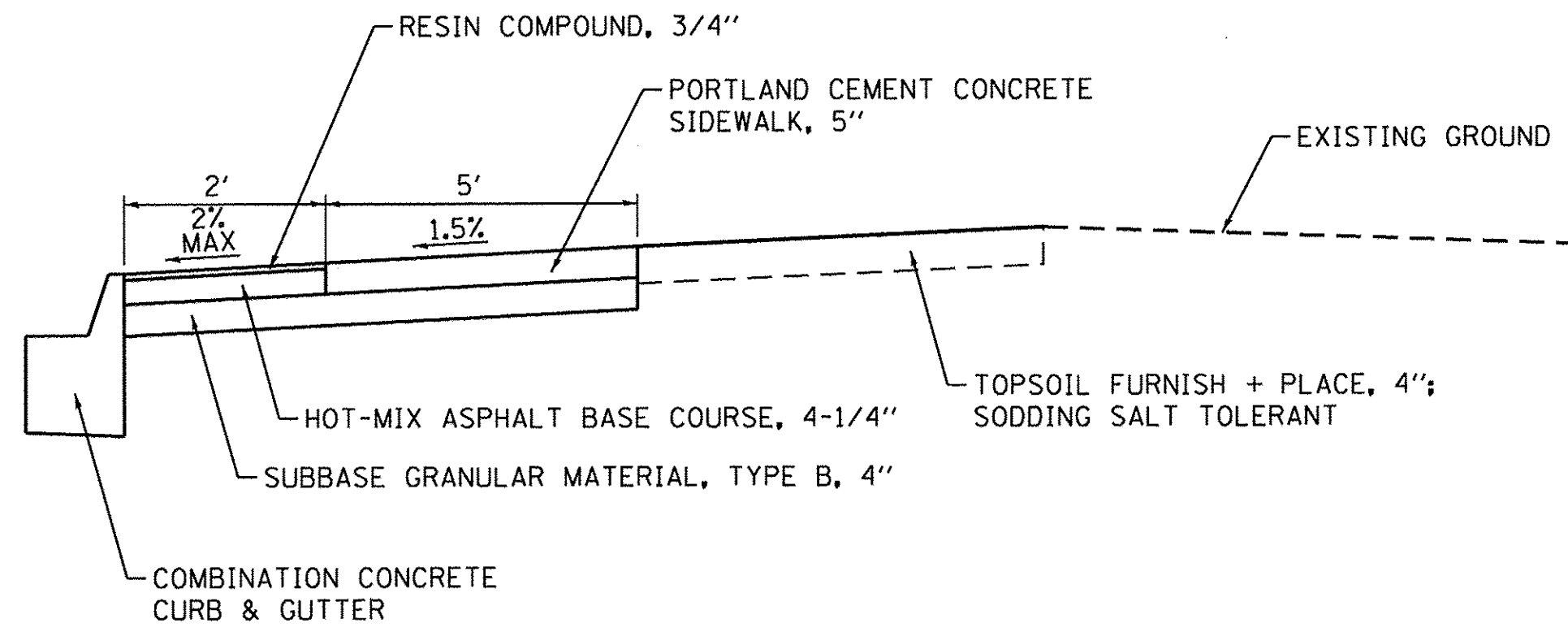
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

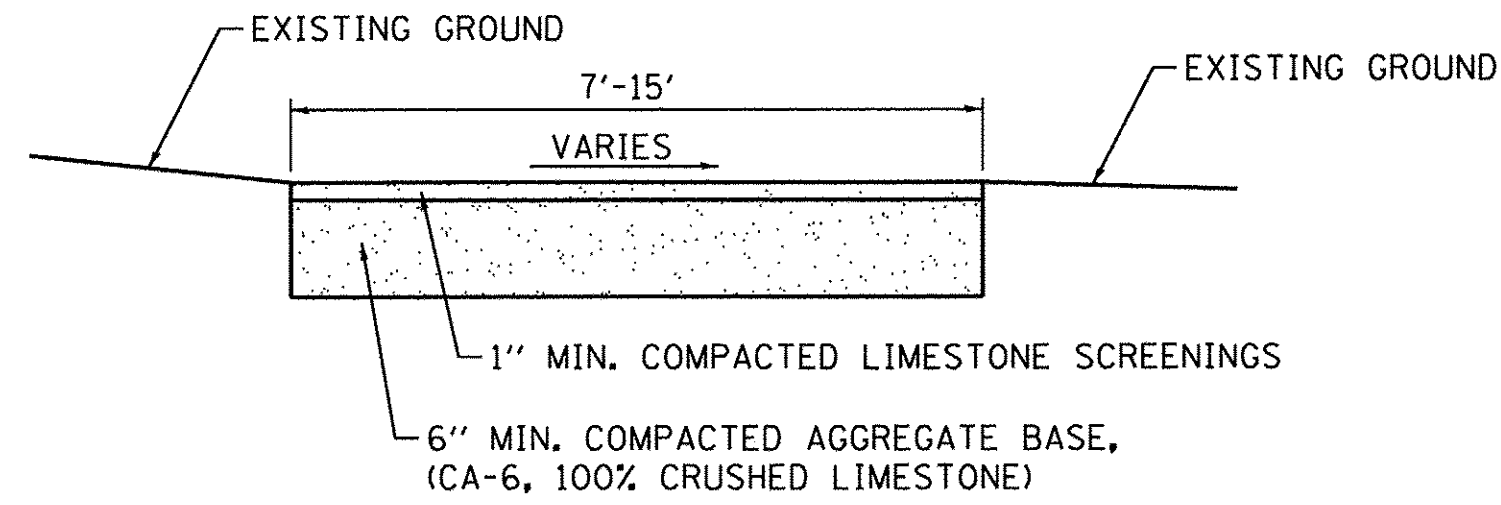
SCALE: NTS SHEET NO. 14 OF 15 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	77
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812				

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO. OF WAY CHECKED	
CADD FILE NAME	
PLAN	
NOTE BOOK	
NO.	

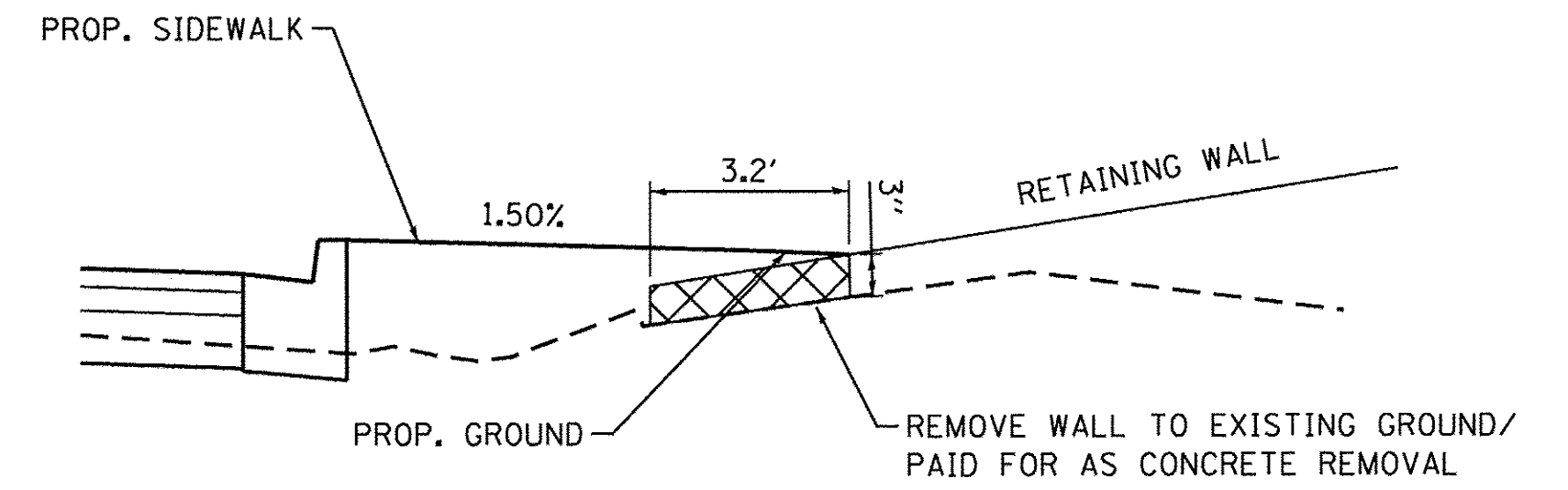


THERMOPLASTIC STAMPED ASPHALT



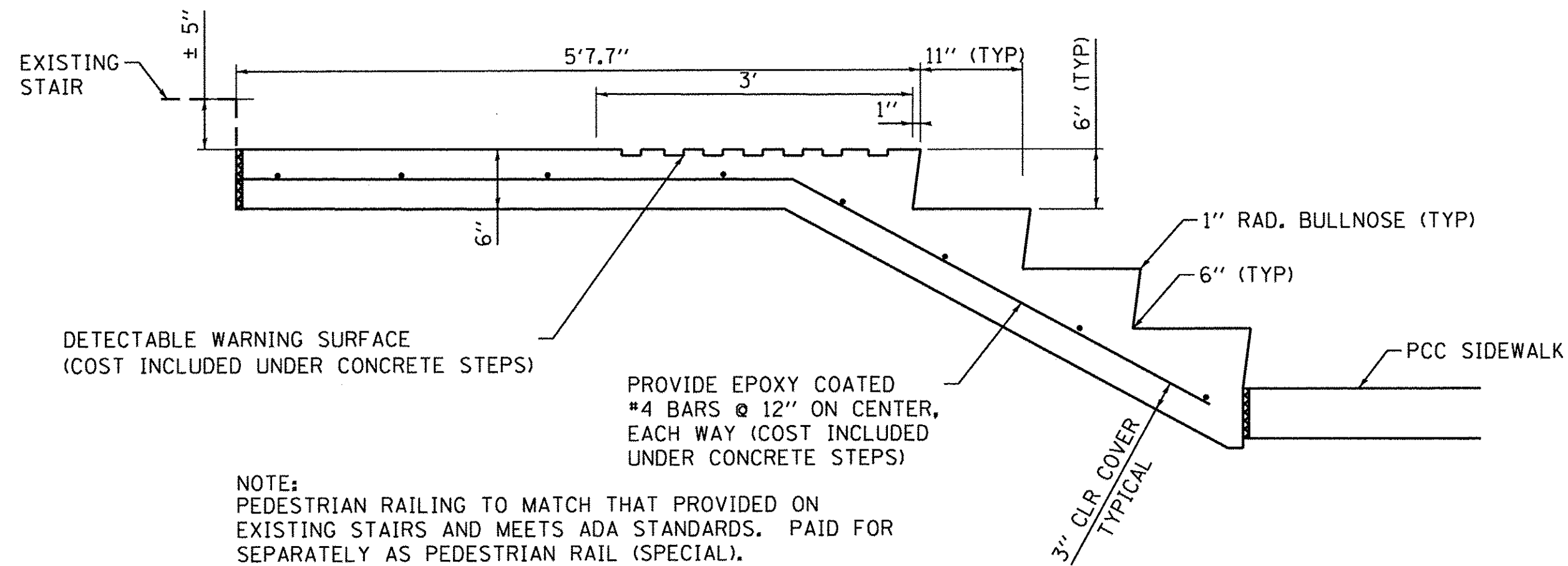
NOTE: PAID FOR AS "AGGREGATE BASE COURSE, TYPE B 7" "

AGGREGATE PATH DETAIL



CONCRETE REMOVAL FOR RETAINING WALL AT STATION 87+48.59

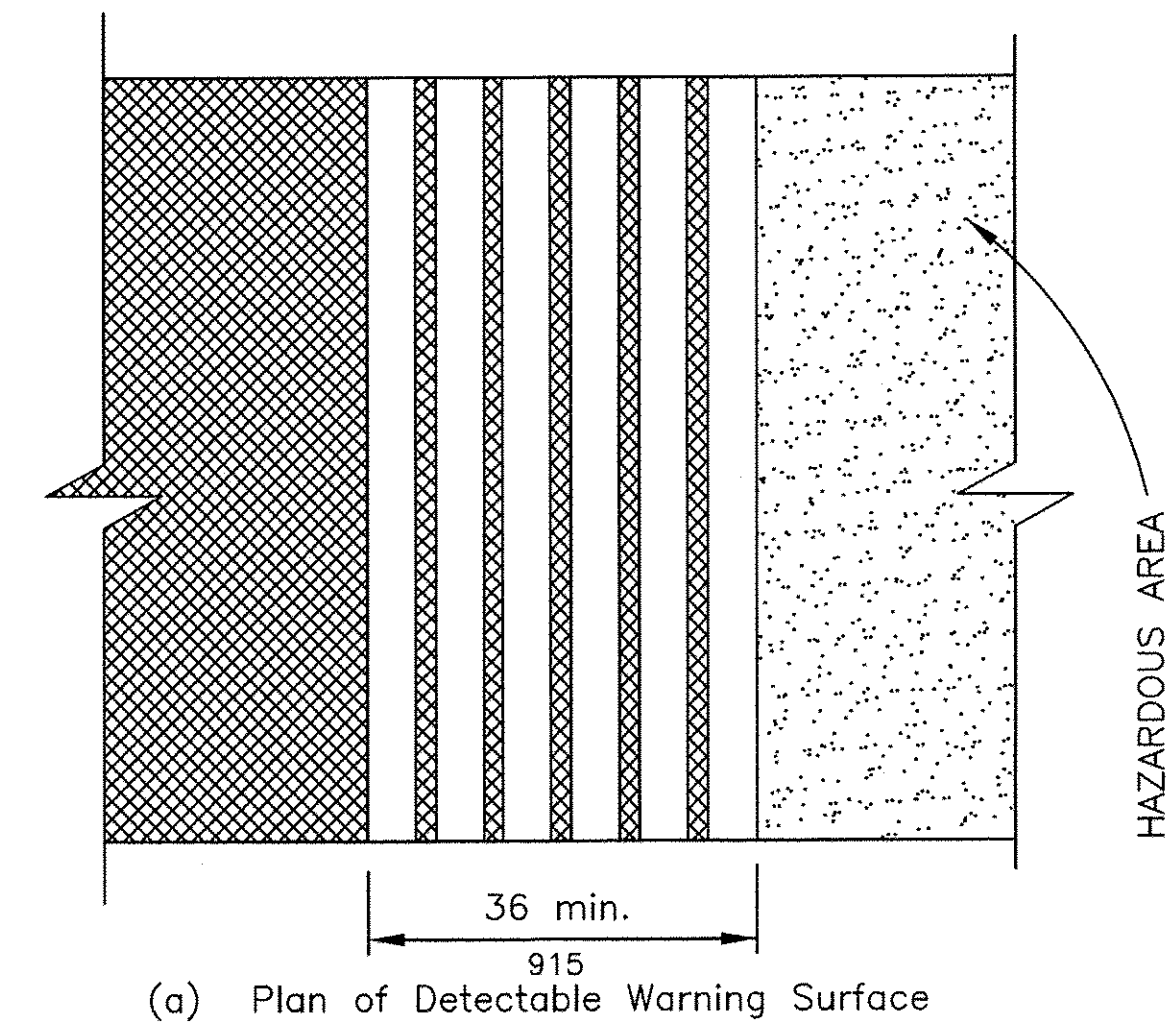
DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO. OF WAY CHECKED	
STRUCTURE NOTATIONS CHVD	
PROFILE	
NOTE BOOK	
NO.	



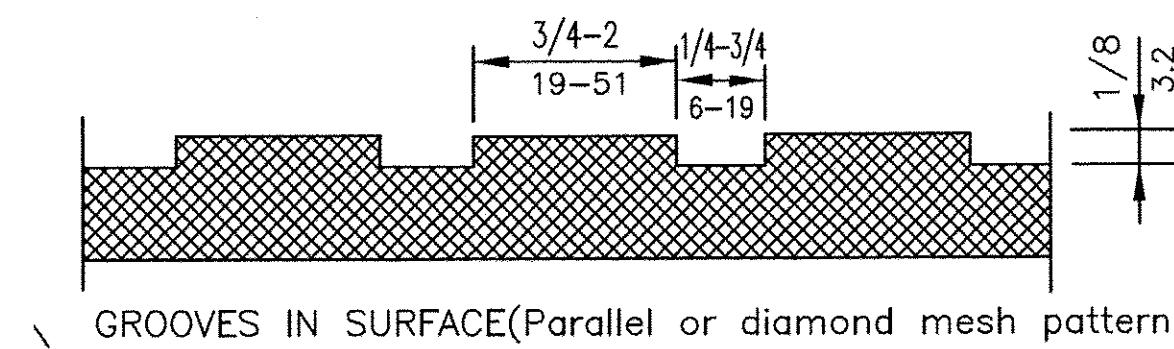
NOTE:
PEDESTRIAN RAILING TO MATCH THAT PROVIDED ON EXISTING STAIRS AND MEETS ADA STANDARDS. PAID FOR SEPARATELY AS PEDESTRIAN RAIL (SPECIAL).

CONCRETE STEPS

STAIRS AT ST. JOHN'S BAPTIST CHURCH
STA. 24+83



(a) Plan of Detectable Warning Surface



GROOVES IN SURFACE (Parallel or diamond mesh pattern)

IPC PROJECT NO: 8650350
 HRC PROJ CONTACT: 8650350-h-cd -12.dgn
 FILE NAME: ll_crf_b - 1.crf
 PLOT DRIVER: to label, bi
 PEN TABLE:



USER NAME = mzu210	DESIGNED - MZ	REVISED -
PLOT SCALE = NTS	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

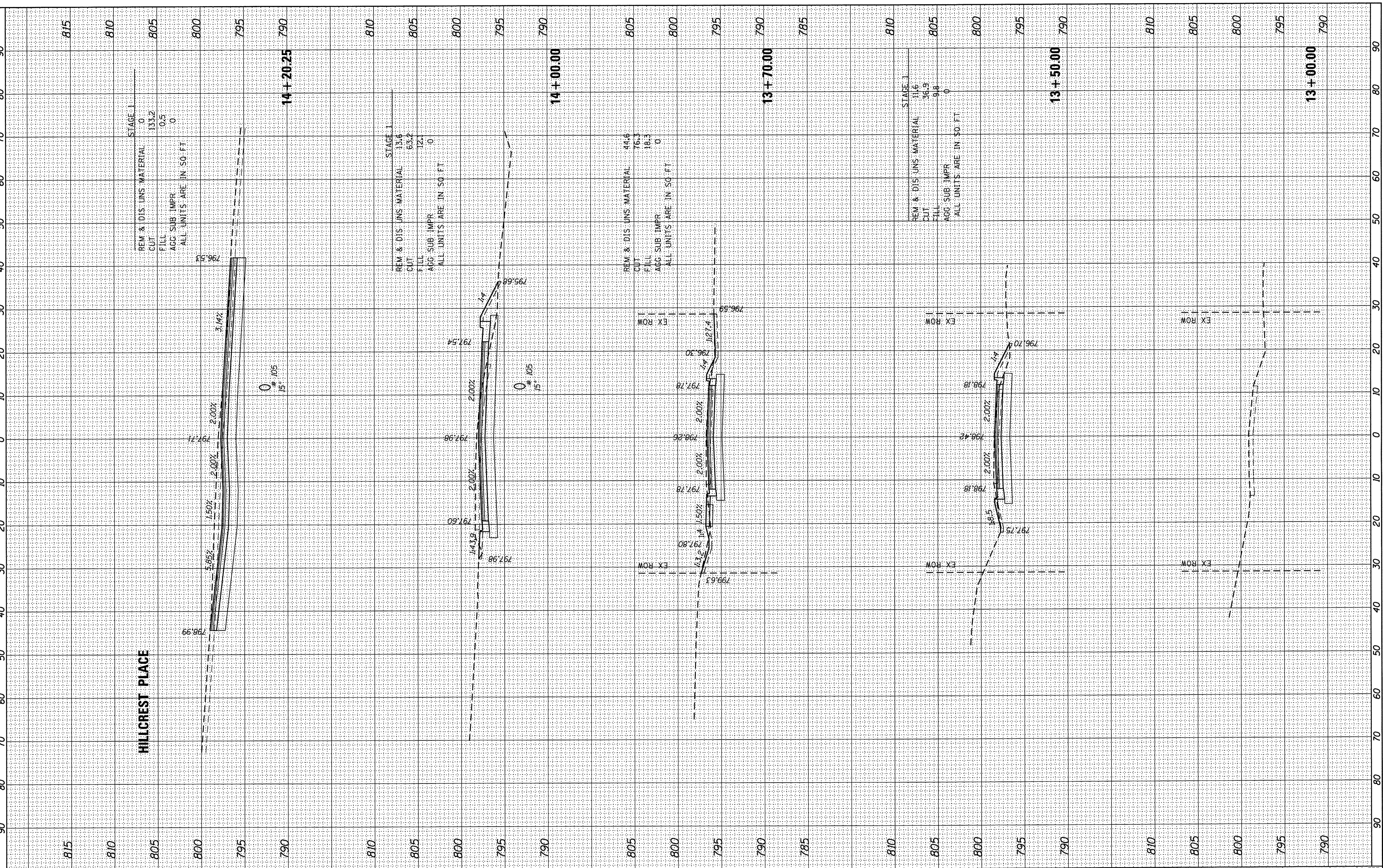
SCALE: NTS SHEET NO. 15 OF 15 SHEETS STA. TO STA.

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	78
				CONTRACT NO. 61D31
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(B12)				

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		
NO.		

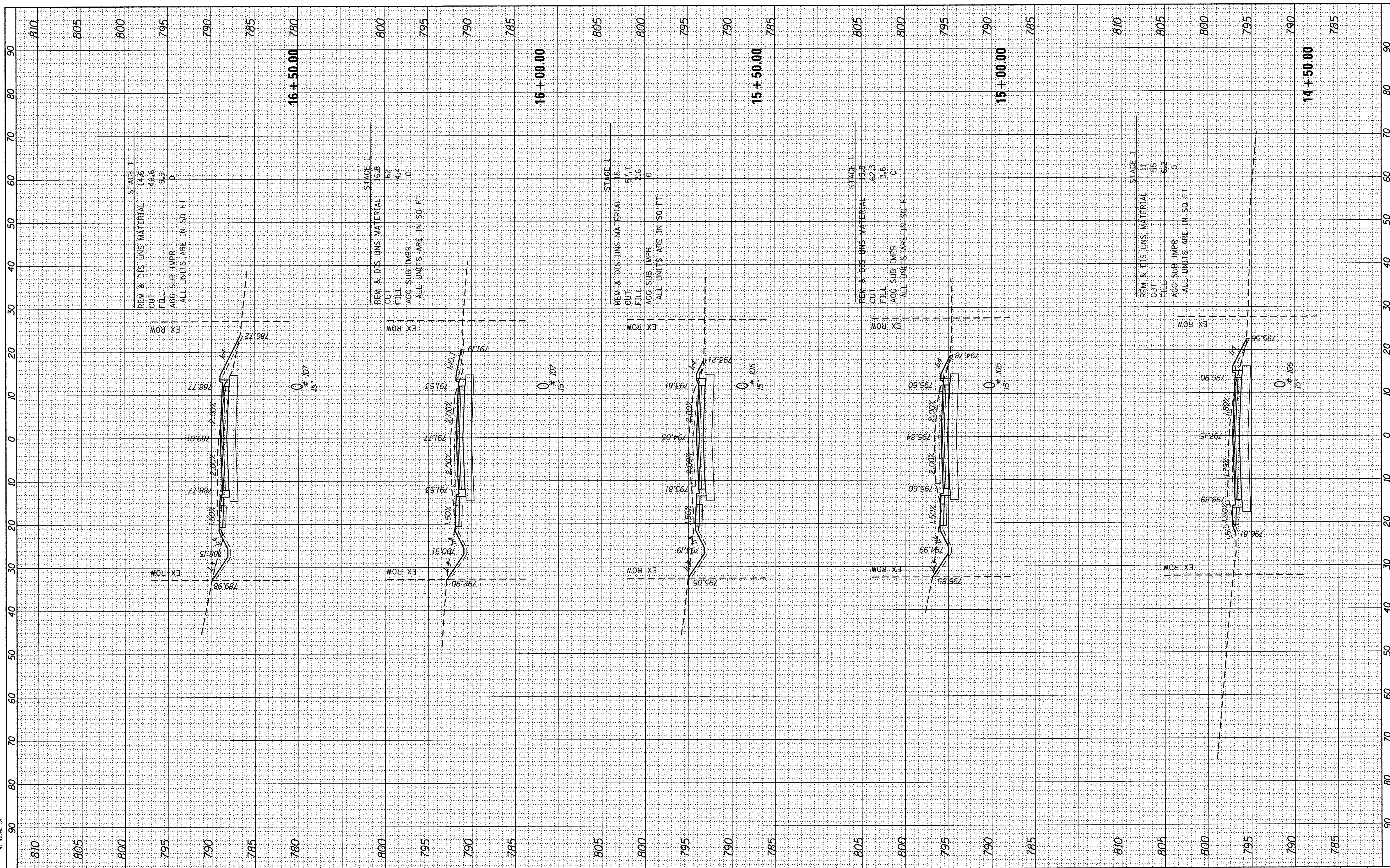
HRG PROJECT NO.: 8660250
 HRG PROJ. CONTACT: 8660250-h AS-Ch
 FILE NAME: L_crf_b_1.crfg
 PLOT DRIVER: to label.pl



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

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

HRG PROJECT NO.: 8660360
 HRG CONTACT: 8660360-h-v5-c1 ch-001
 FILE NAME: 15-00013-00-PV
 PLOT DRIVER: l:\dtp\l1cfd
 PEN TABLE: l:\tbl\bl



STAGE 14
 REM & DIS UNS MATERIAL 14.6
 CUT 46.6
 FILL 9.9
 AGG SUB IMPR 0
 ALL UNITS ARE IN SQ FT

STAGE 15
 REM & DIS UNS MATERIAL 16.8
 CUT 62
 FILL 4.4
 AGG SUB IMPR 0
 ALL UNITS ARE IN SQ FT

STAGE 15
 REM & DIS UNS MATERIAL 15.8
 CUT 67.7
 FILL 2.6
 AGG SUB IMPR 0
 ALL UNITS ARE IN SQ FT

STAGE 15
 REM & DIS UNS MATERIAL 15.8
 CUT 62.3
 FILL 5.6
 AGG SUB IMPR 0
 ALL UNITS ARE IN SQ FT

STAGE 11
 REM & DIS UNS MATERIAL 11
 CUT 55
 FILL 6.2
 AGG SUB IMPR 0
 ALL UNITS ARE IN SQ FT

HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = mzuizio
 PLOT SCALE = 10H:10V
 PLOT DATE = 12/22/2016

DESIGNED - MZ
 DRAWN - DMS
 CHECKED -
 DATE - 12/22/16

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 CHURCH STREET

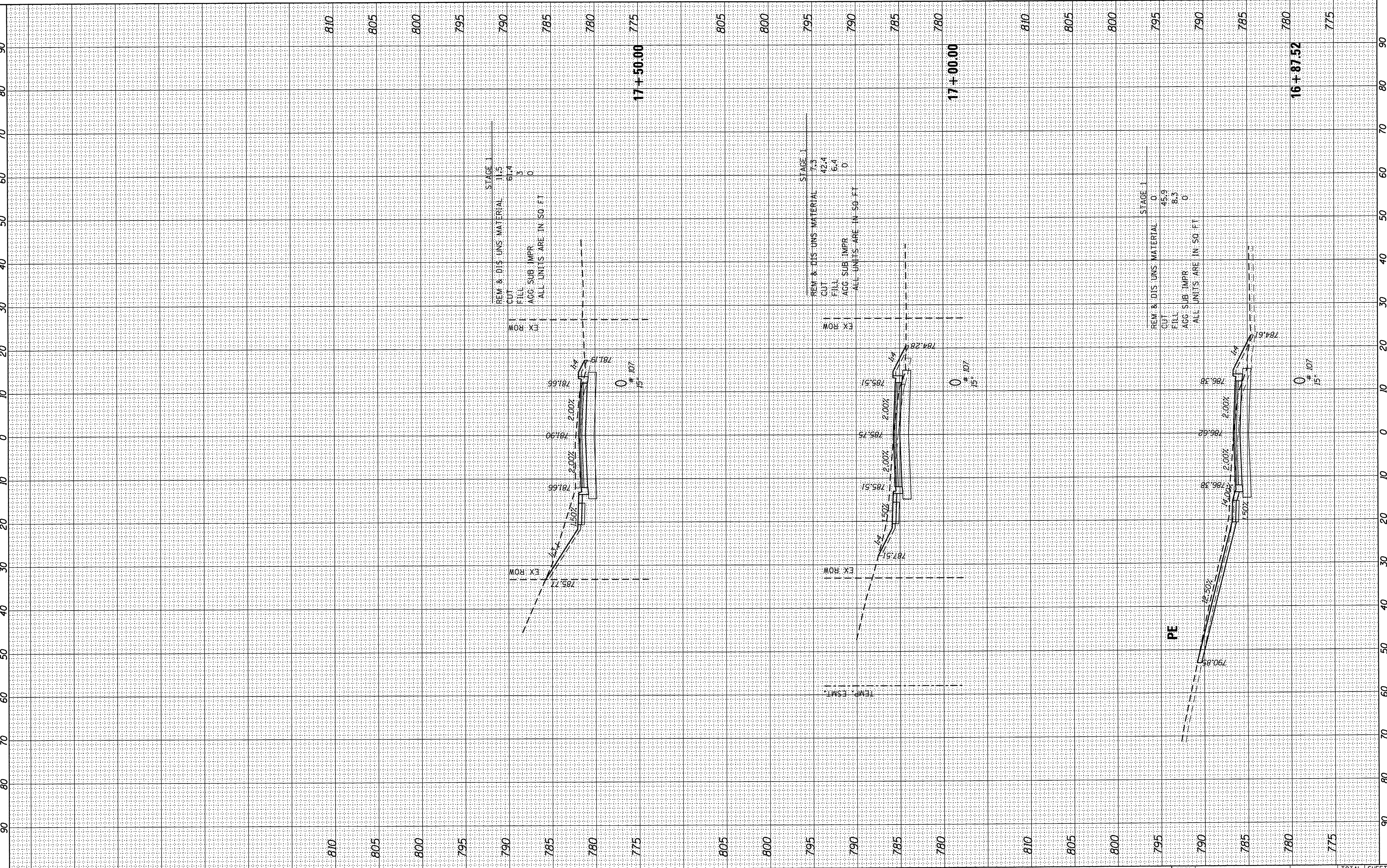
SCALE: 10H:10V SHEET NO. 2 OF 17 SHEETS STA. 14+50.00 TO STA. 16+50.00

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	80
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61D31	
FED. AID PROJECT			M-4003(812)	

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

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

HRG PROJECT NO.: 8660360
 HRG PROJ CONTACT: 8660360-n-ks-ch chg
 FILE NAME: 16_crb.lcf
 PLOT DRIVER: lo_label.plt
 PEN TABLE:



STAGE 1
 REM & DIS UNS MATERIAL 11.5
 CUT 61.4
 FILL 3
 AGG SUB IMPR 0
 ALL UNITS ARE IN SQ. FT.

STAGE 1
 REM & DIS UNS MATERIAL 7.3
 CUT 42.4
 FILL 6.4
 AGG SUB IMPR 0
 ALL UNITS ARE IN SQ. FT.

STAGE 1
 REM & DIS UNS MATERIAL 0
 CUT 45.9
 FILL 8.5
 AGG SUB IMPR 0
 ALL UNITS ARE IN SQ. FT.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 CHURCH STREET

USER NAME = mzu2210	DESIGNED - MZ	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 10'H=10'	CHECKED -	REVISED -
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -

SCALE: 10H=10V SHEET NO. 3 OF 17 SHEETS STA. 16+87.52 TO STA. 17+50.00

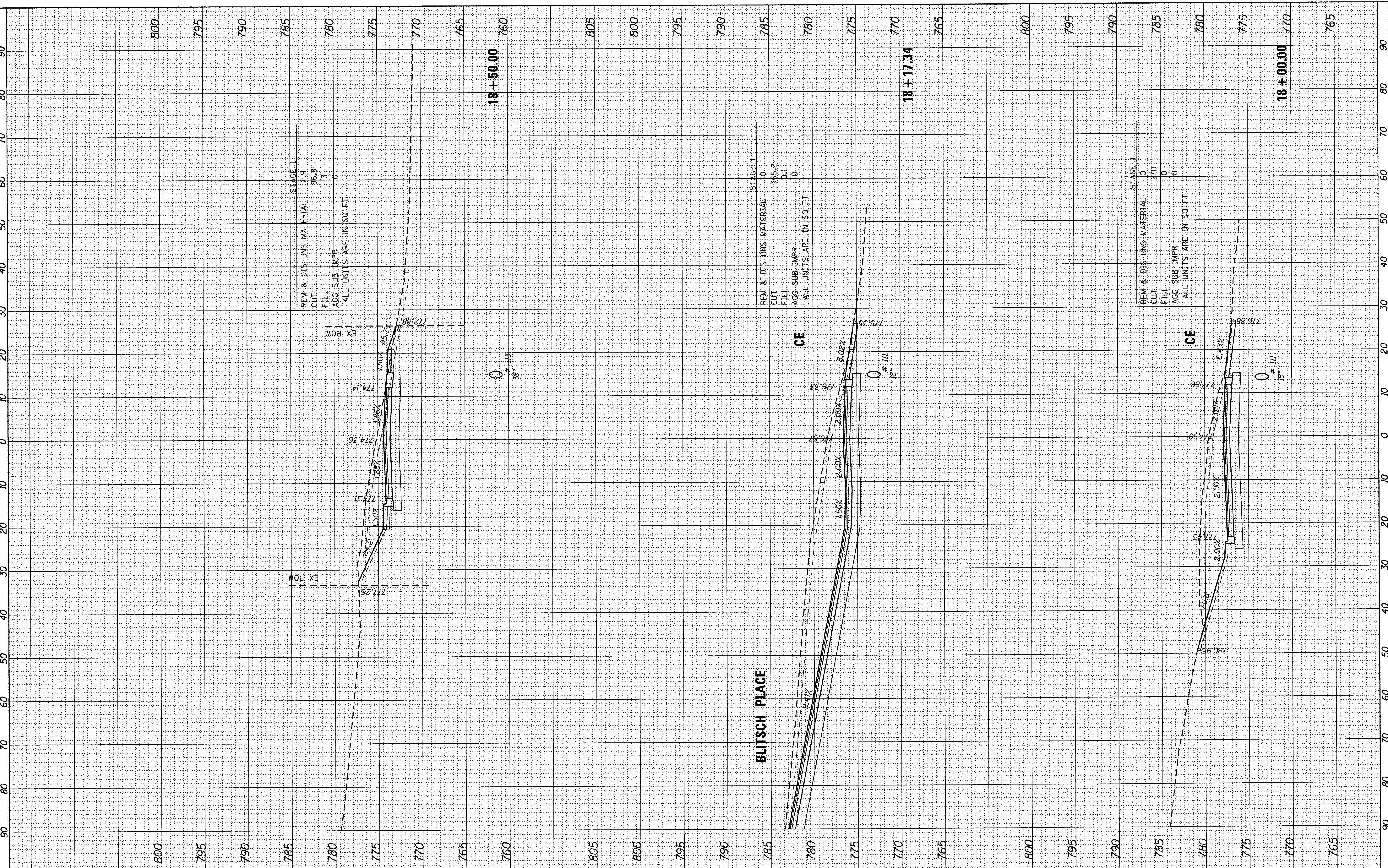
MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	81
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				



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

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

HRG PROJECT NO.: 8660360
 HRG PROJ CONTACT: 8660360-h *S-Cr chg
 FILE NAME: 18_cr_b_1.cfd
 PLOT DRIVER: jo_label.plt
 PEN TABLE:



HRGreen
 HRGreen.com
 Illinois Professional Design Firm
 # 184-001522

USER NAME = m2uzzio	DESIGNED - MZ	REVISED -
PLOT SCALE = 10'H=10'	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

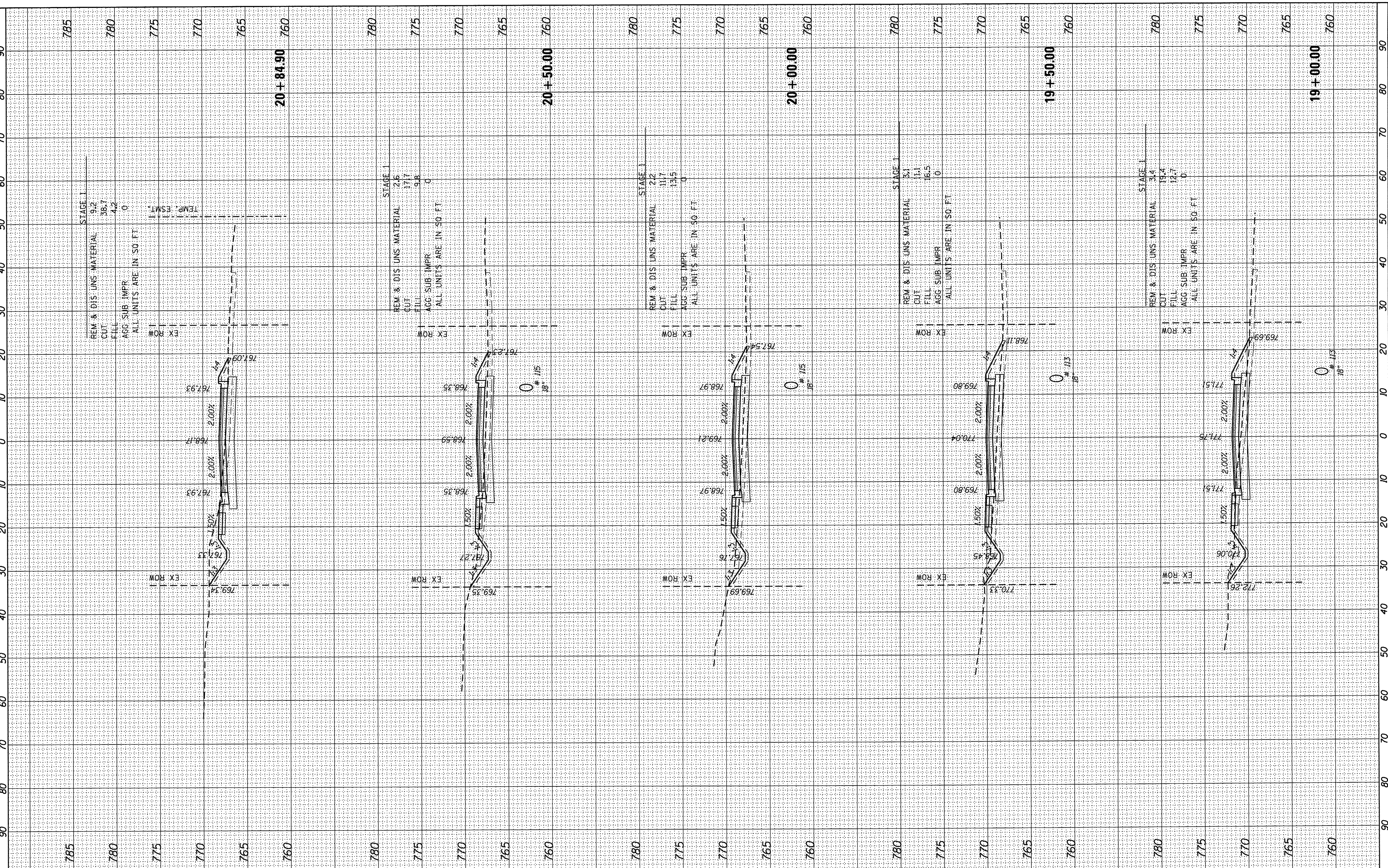
CROSS SECTIONS	
CHURCH STREET	
SCALE: 10H=10V	SHEET NO. 4 OF 17 SHEETS
STA. 18+00.00 TO STA. 18+50.00	

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	82
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

FINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350-h *S-Ch
 FILE NAME: L_072.B .1 cfb
 PLOT DRIVER: to label.pl
 PEN TABLE:

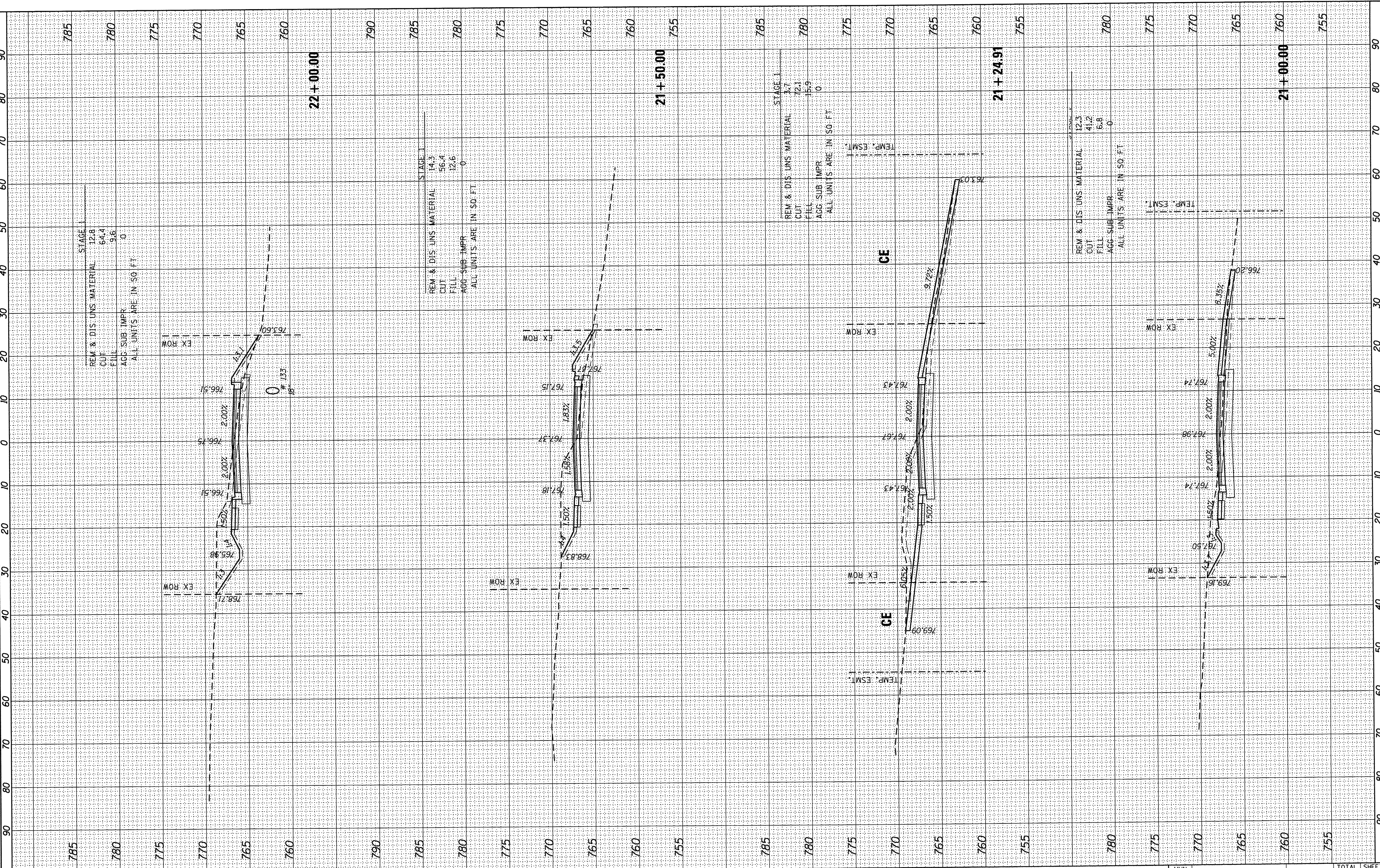


HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = muzzio DESIGNED - MZ DRAWN - DMS PLOT SCALE = 10H:10V PLOT DATE = 12/22/2016	REVISIONS REVISIONS - REVISIONS - REVISIONS - REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CHURCH STREET		MUN ST 8500 SECTION NO. 15-00013-00-PV COUNTY MCHENRY CONTRACT NO. 61D31	TOTAL SHEETS 95 SHEET NO. 83
	SCALE: 10H:10V SHEET NO. 5 OF 17 SHEETS STA. 19+00.00 TO STA. 20+84.90			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(812)			

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

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

HRG PROJECT NO.: 8650350
 HRG PROJ CONTACT: 8650350 - J. -XS-CH
 FILE NAME: IL_07.D - J. 079
 PLOT DRIVER: to: 00861.D
 PLOT TABLE:

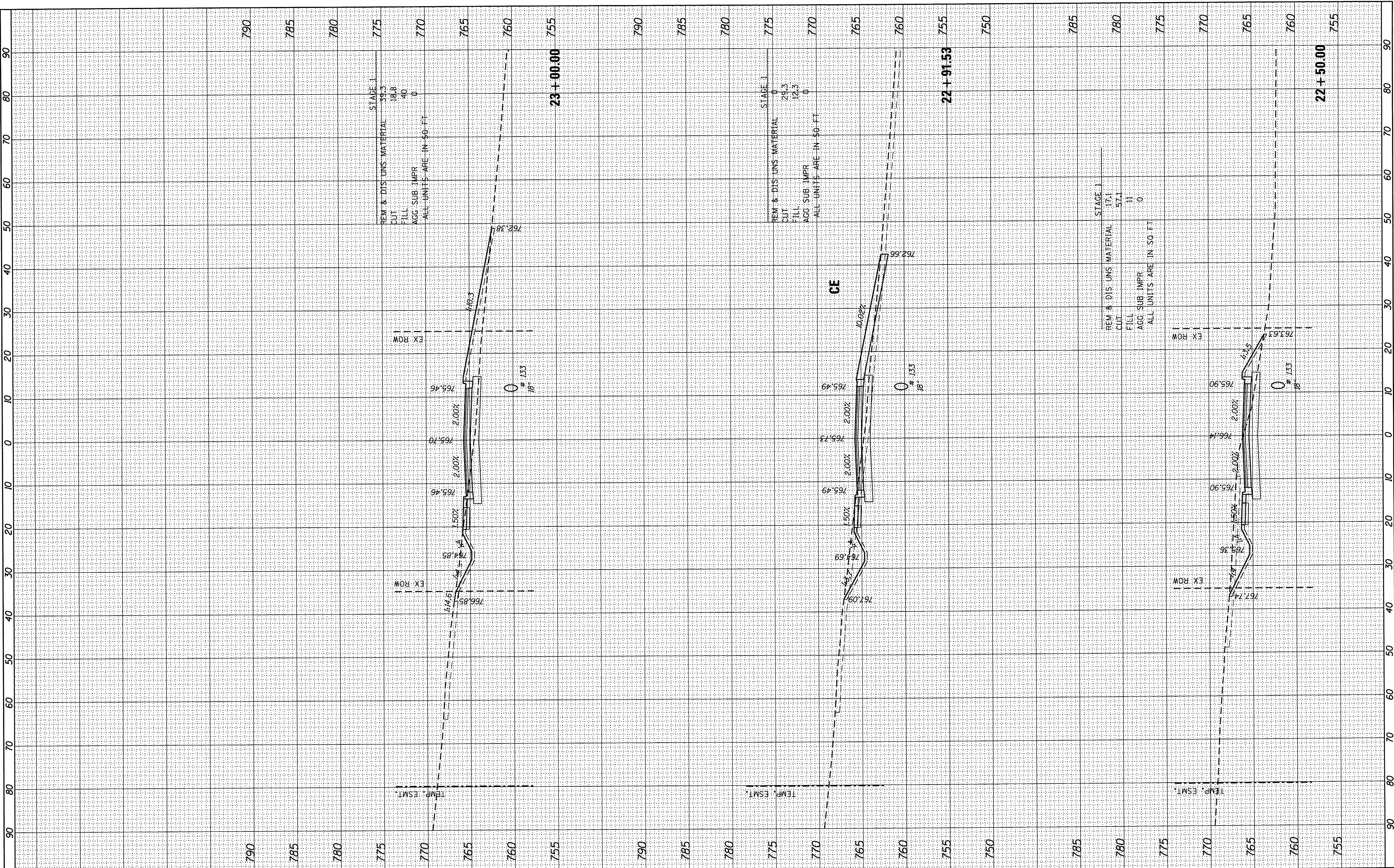


HRGreen.com Illinois Professional Design Firm # 184-001322	USER NAME = mzuzz10 PLOT SCALE = 10H:10V PLOT DATE = 12/22/2016	DESIGNED - MZ DRAWN - DMS CHECKED - DATE - 12/22/16	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CHURCH STREET	SCALE: 10H:10V	SHEET NO. 6 OF 17 SHEETS	STA. 21+00.00 TO STA. 22+00.00	MUN ST 8500 SECTION NO. 15-00013-00-PV COUNTY MCHENRY CONTRACT NO.61D31	TOTAL SHEETS 95 SHEET NO. 84	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	TEMPLATE		
	AREAS CHECKED		

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

HRG PROJECT NO: 8660250
 HRG PROJ CONTACT: 8660250-n xs-ch
 FILE NAME: L_of_b_i_ofg
 PLOT DRIVER: to_label.bl
 PEN TABLE:

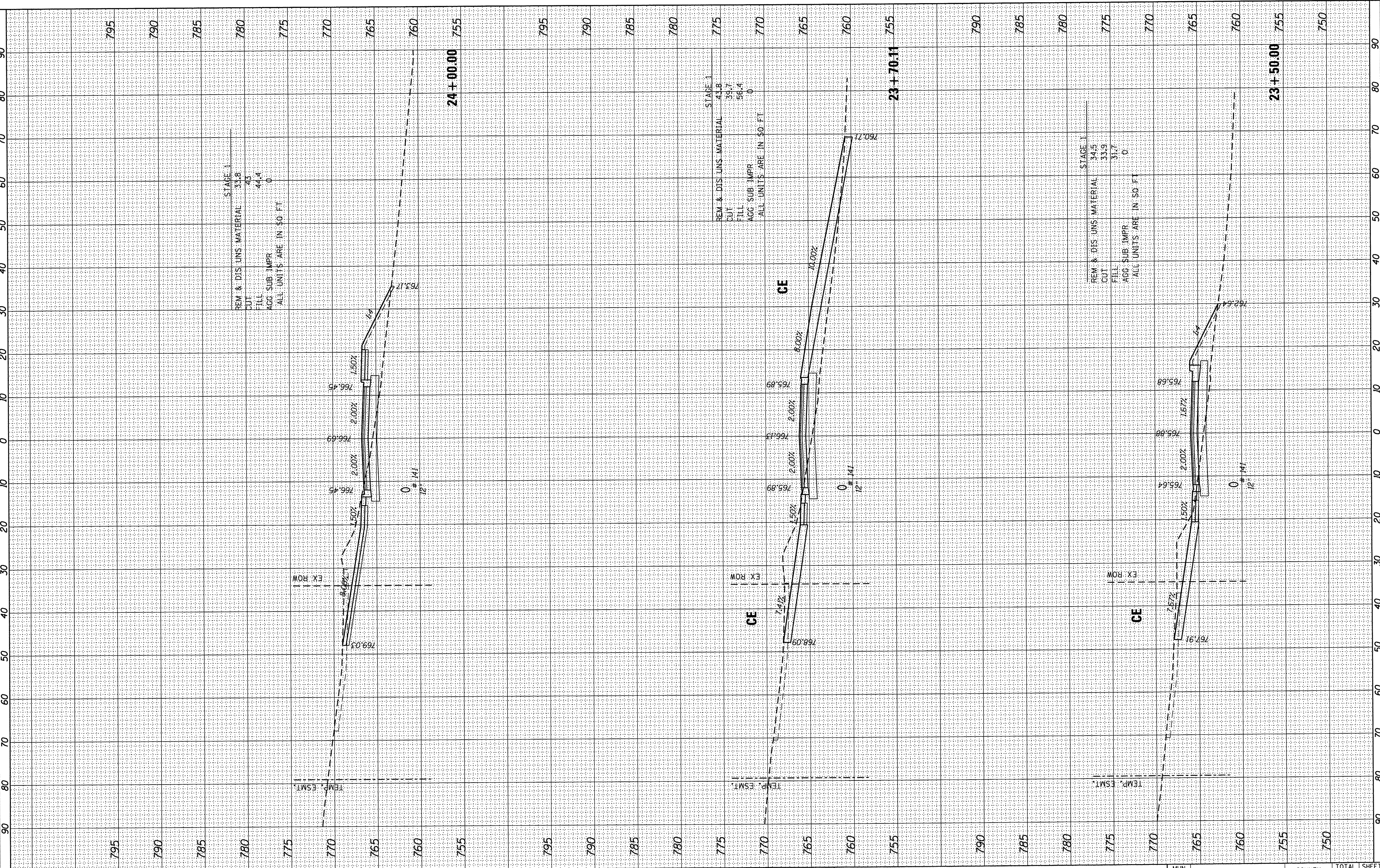


HRGreen.com Illinois Professional Design Firm # 194-011322	USER NAME = mzuz210 PLOT SCALE = 10ft=10V PLOT DATE = 12/22/2016	DESIGNED - MZ DRAWN - DMS CHECKED - DATE - 12/22/16	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CHURCH STREET	SCALE: 10ft=10V SHEET NO. 7 OF 17 SHEETS STA. 22+50.00 TO STA. 23+00.00	MUN ST 8500 SECTION NO. 15-00013-00-PV COUNTY MCHENRY FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(812)	TOTAL SHEETS 95 SHEET NO. 85 CONTRACT NO. 61D31
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FINAL SURVEY	SURVEYED	BY	DATE
PLOTTED	PLOTTED		
NOTE BOOK	NOTE BOOK		
TEMPLATE	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		
NO.	NO.		

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

HRG PROJECT NO.: 8650380
 HRG PROJ CONTACT: 8650380 - JVS-Ch
 PLOT DRIVER: hr, cf, b, cf, g
 PEN TABLE: io, label, bl



STAGE 1

REM. & DIS. UNS. MATERIAL	33.8
CUT	43
FILL	44.4
AGG. SUB. IMPR.	0
ALL UNITS ARE IN SQ. FT.	

STAGE 1

REM. & DIS. UNS. MATERIAL	41.8
CUT	39.7
FILL	56.4
AGG. SUB. IMPR.	0
ALL UNITS ARE IN SQ. FT.	

STAGE 1

REM. & DIS. UNS. MATERIAL	34.5
CUT	33.9
FILL	31.7
AGG. SUB. IMPR.	0
ALL UNITS ARE IN SQ. FT.	

USER NAME	= muzzio
DESIGNED	- MZ
DRAWN	- DMS
CHECKED	-
DATE	- 12/22/16
REVISIONS	-
REVISIONS	-
REVISIONS	-
REVISIONS	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 CHURCH STREET**

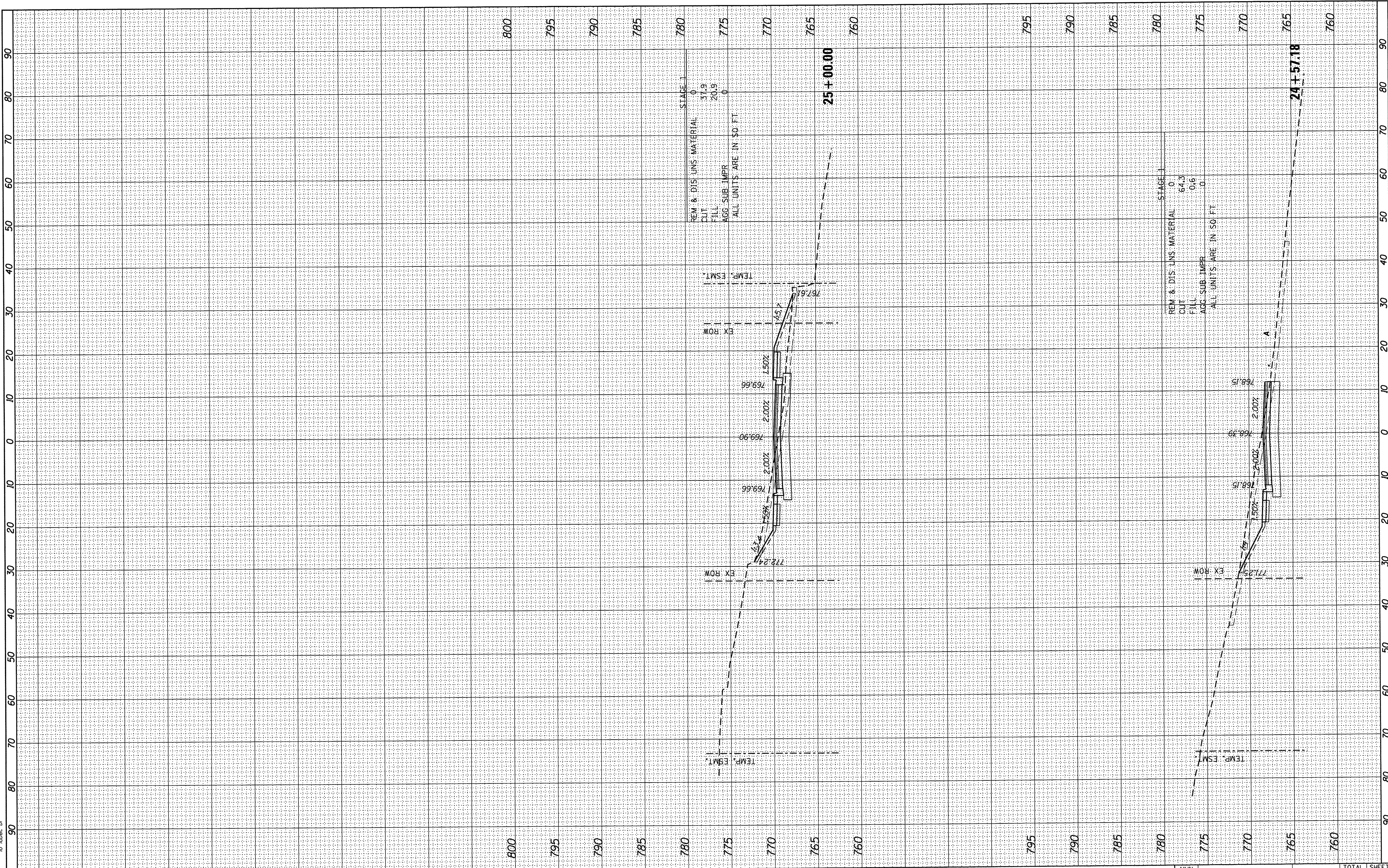
SCALE: 10H:10V SHEET NO. 8 OF 17 SHEETS STA. 23+50.00 TO STA. 24+00.00

MUN. ST.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	86
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-40038121				
CONTRACT NO. 61D31				

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

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

HRG PROJECT NO.: 8650350
 HRG CONTACT: 8650350 - h - 2S-Ch - chg
 PLOT DRIVER: ll_efs_b - l_cfg
 PEN TABLE: la_label_bi



HRGreen
 Illinois Professional Design Firm
 #184-001922

USER NAME = muzzio	DESIGNED - MZ	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 10H:10V	CHECKED -	REVISED -
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

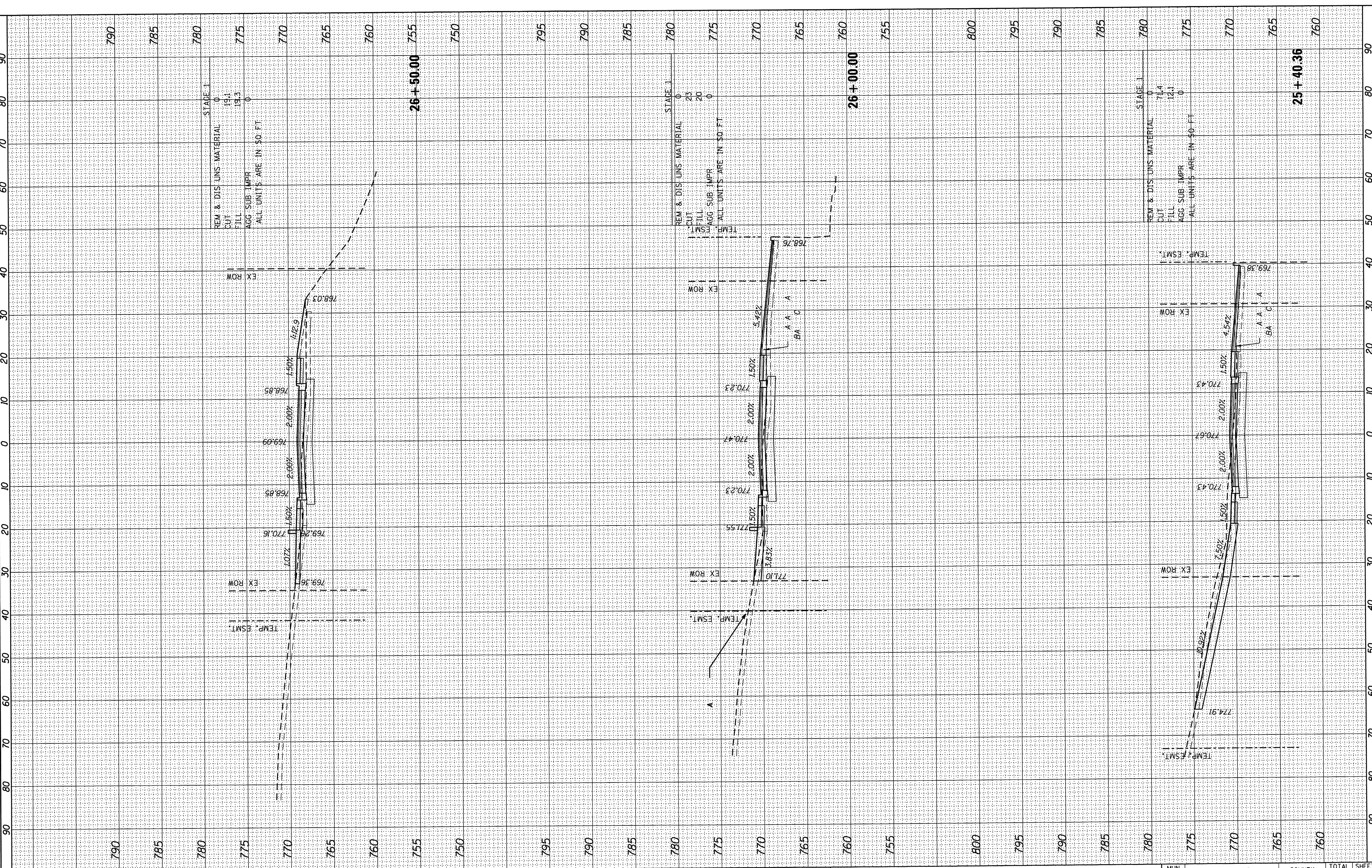
**CROSS SECTIONS
 CHURCH STREET**
 SCALE: 10H:10V SHEET NO. 9 OF 17 SHEETS STA. 24+57.18 TO STA. 25+00.00

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	87
CONTRACT NO.61D31				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-40031812)				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	

HRG PROJECT NO: 8650350
 HRG PROJ CONTACT: 8650350-1 -VS-ch
 FILE NAME: IL_CPLD_1.cvg
 PLOT DRIVER: To Paper.plt
 PER TABLE



STAGE 1

REM. & DIS. LINS. MATERIAL	0
CUT	19.1
FILL	19.3
AGG. SUB. IMPR.	0

ALL UNITS ARE IN SQ. FT.

STAGE 1

REM. & DIS. LINS. MATERIAL	0
CUT	23
FILL	20
AGG. SUB. IMPR.	0

ALL UNITS ARE IN SQ. FT.

STAGE 1

REM. & DIS. LINS. MATERIAL	0
CUT	11.4
FILL	12.1
AGG. SUB. IMPR.	0

ALL UNITS ARE IN SQ. FT.

USER NAME	= mzuzz10
DESIGNED	- MZ
DRAWN	- DMS
CHECKED	-
DATE	- 12/22/16

REVISIONS	-
REVISIONS	-
REVISIONS	-
REVISIONS	-
REVISIONS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CHURCH STREET

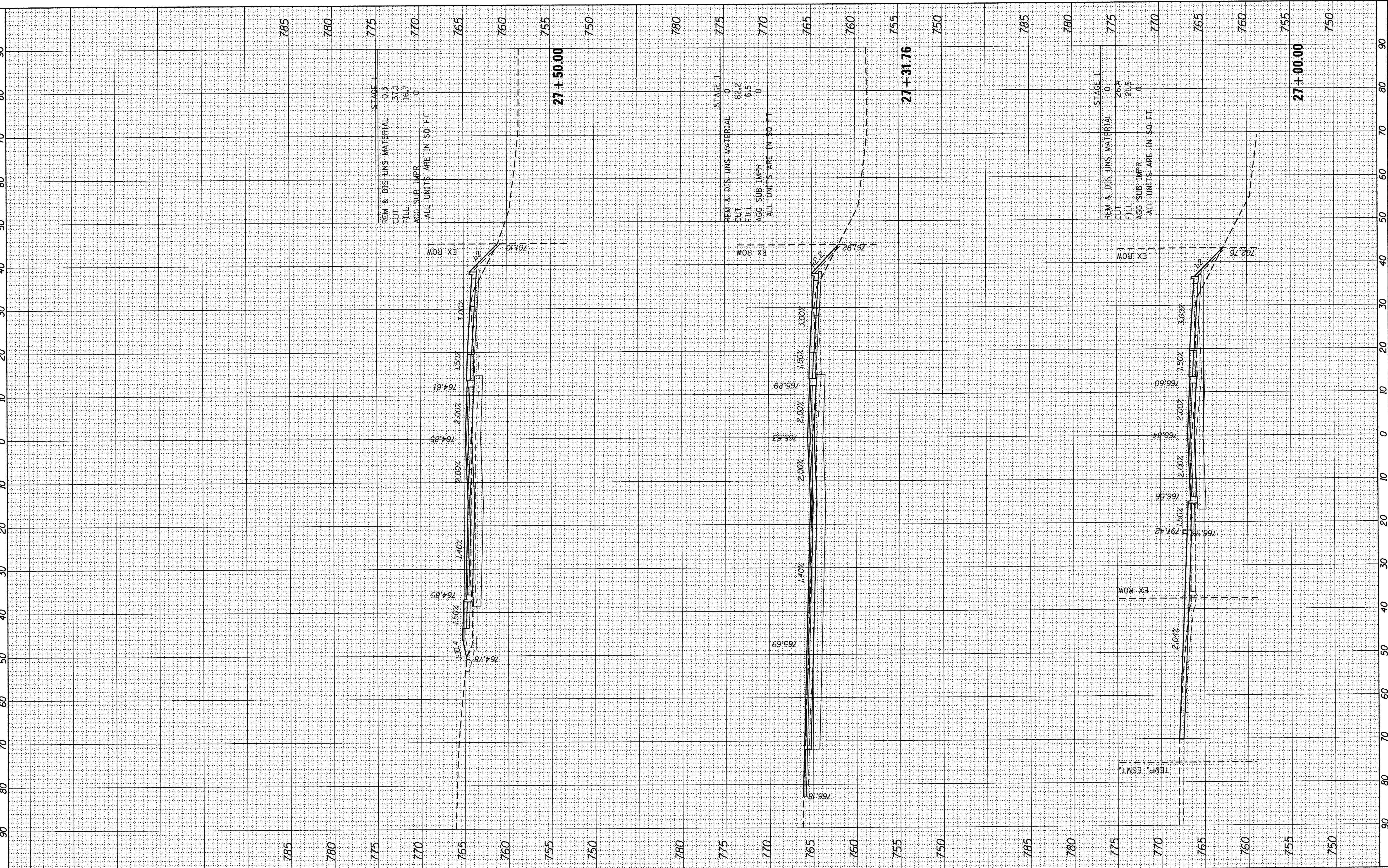
SCALE: 10H:10V SHEET NO. 10 OF 17 SHEETS STA. 25+40.36 TO STA. 26+50.00

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	88
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61D31	
			M-4003(812)	

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

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

HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350-h AS-Ch ch-007
 FILE NAME: 8660350-h AS-Ch ch-007
 PLOT DRIVER: l-07-b-1-efg
 PEN TABLE: lo label.bl



STAGE 1
 REM & DIS UNS MATERIAL 0.3
 CUT 31.1
 FILL 16.7
 AGG SUB IMPR 0
 ALL UNITS ARE IN \$0. FT

STAGE 1
 REM & DIS UNS MATERIAL 0
 CUT 84.2
 FILL 6.5
 AGG SUB IMPR 0
 ALL UNITS ARE IN \$0. FT

STAGE 1
 REM & DIS UNS MATERIAL 0
 CUT 26.4
 FILL 21.5
 AGG SUB IMPR 0
 ALL UNITS ARE IN \$0. FT

USER NAME =	m2uz210
DESIGNED -	MZ
DRAWN -	DMS
CHECKED -	
DATE -	12/22/16

REVISD -	
REVISD -	
REVISD -	
REVISD -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 CHURCH STREET**

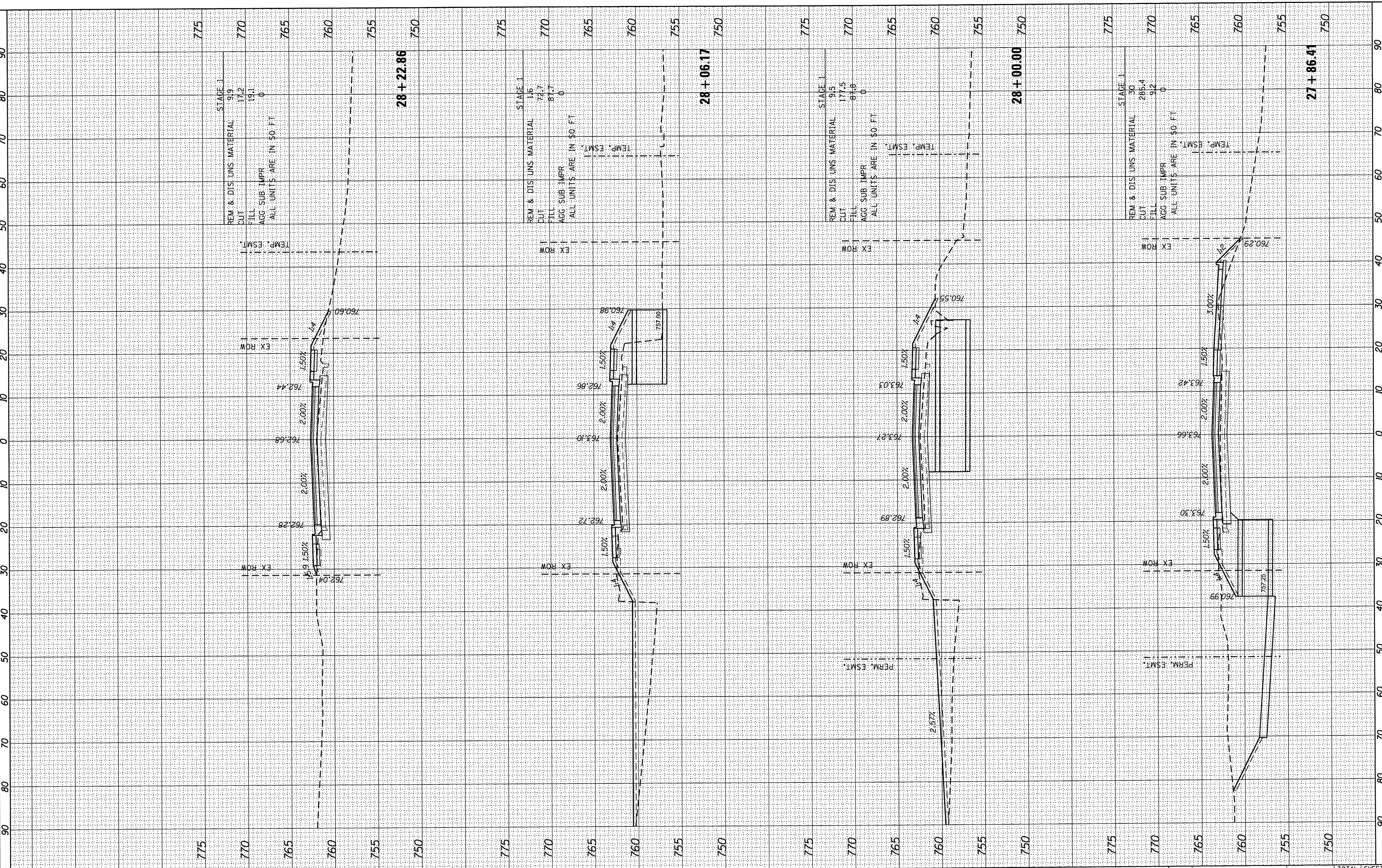
SCALE: 10H:10V SHEET NO. 11 OF 17 SHEETS STA. 27+00.00 TO STA. 27+50.00

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	89
CONTRACT NO. 61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				

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

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

HRG PROJECT NO.: 8650350
 HRG PROJ. CONTACT: 8650350-1-35-Ch
 PLOT DRIVER: lfcf, b, i, c, f, g
 PEN TABLE: to label, bl

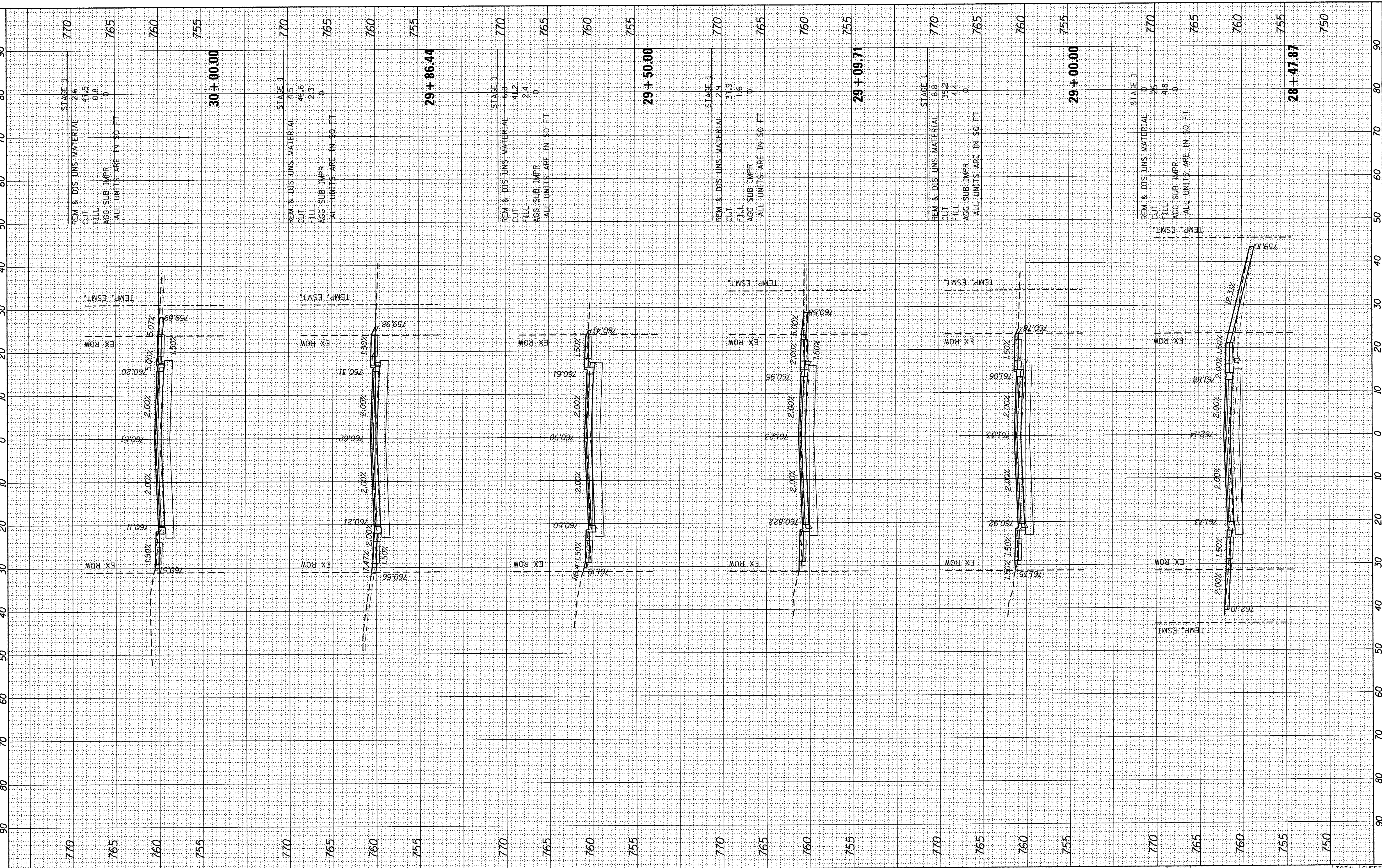


HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = muzzio PLOT SCALE = 10H:10V PLOT DATE = 12/22/2016	DESIGNED - MZ DRAWN - DMS CHECKED - DATE - 12/22/16	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CHURCH STREET		SCALE: 10H:10V SHEET NO. 12 OF 17 SHEETS STA. 27+86.41 TO STA. 28+22.86	MUN ST 8500 SECTION NO. 15-00013-00-PV COUNTY MCHENRY FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812	TOTAL SHEETS 95 SHEET NO. 90	CONTRACT NO.61D31
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BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350 - P - XS-C7
 FILE NAME: 8660350 - P - XS-C7
 PLOT DRIVER: l:\of.b.\j\c7g
 PEN TABLE: l\label.bl

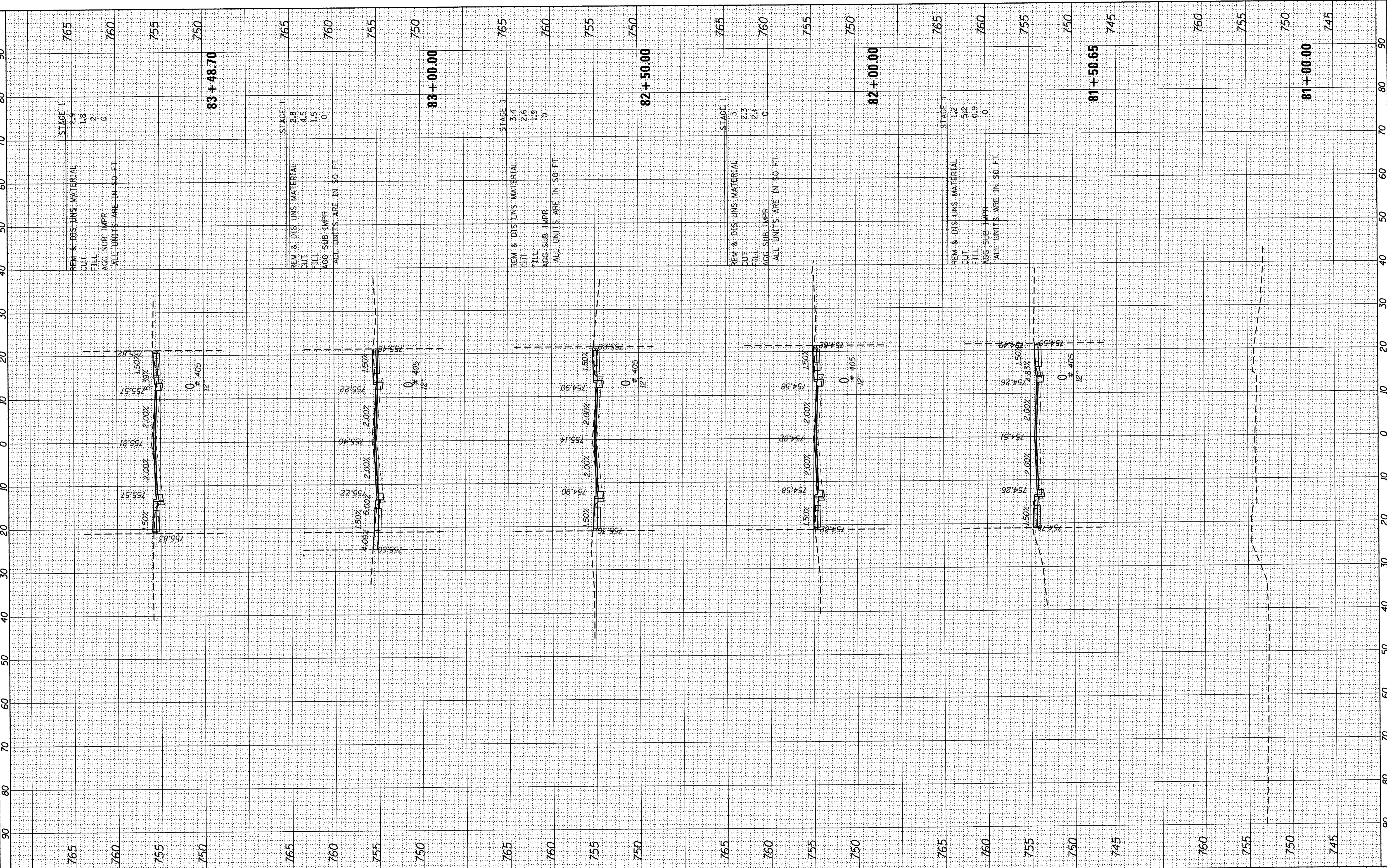


USER NAME = mzu2210 PLOT SCALE = 10H:10V PLOT DATE = 12/22/2016	DESIGNED - MZ DRAWN - DMS CHECKED - DATE - 12/22/16	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CHURCH STREET	SCALE: 10H:10V SHEET NO. 13 OF 17 SHEETS STA. 28+47.87 TO STA. 30+00.00	MUN ST 8500 SECTION NO. 15-00013-00-PV COUNTY MCHENRY FED. ROAD DIST. NO. 1 ILLINOIS CONTRACT NO. 61D31	TOTAL SHEETS 95 SHEET NO. 91 FED. AID PROJECT M-400318121
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FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

HRG PROJECT NO.: 8650350
 HRG PROJ CONTACT: #660350 - JVS-S John.doherty@hrgreen.com
 PLOT DRIVER: JVS
 PEN TABLE: 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92

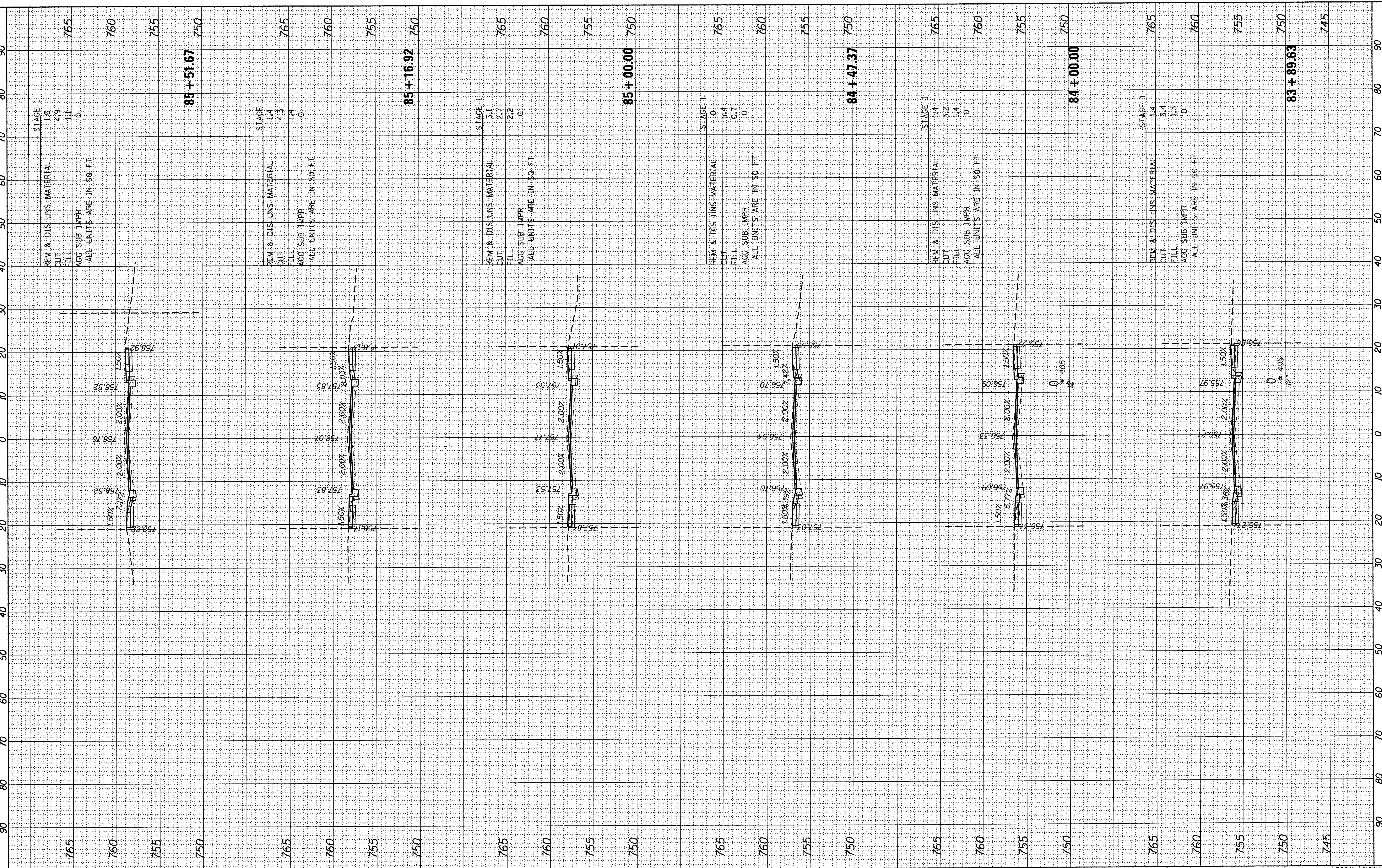


HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = muzzio DESIGNED - MZ DRAWN - DMS CHECKED - DATE - 12/22/16	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS ST JOHNS AVENUE		SCALE: 10H:10V	SHEET NO. 14 OF 17 SHEETS	STA. 81+00.00 TO STA. 83+48.70	MUN ST 8500	SECTION NO. 15-00013-00-PV	COUNTY MCHENRY	TOTAL SHEETS 95	SHEET NO. 92
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-40031812		CONTRACT NO. 61D31					

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		

HRG PROJECT NO.: 8660350
 HRG PROJ CONTACT: 8660350-h AS-S John-04
 FILE NAME: IL_dr_b_1.cfg
 PLOT DRIVER: to_label.pl
 PEN TABLE:



USER NAME = mzu210	DESIGNED - MZ	REVISED -
PLOT SCALE = 10H:10V	DRAWN - DMS	REVISED -
PLOT DATE = 12/22/2016	CHECKED -	REVISED -
	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
ST JOHNS AVENUE**

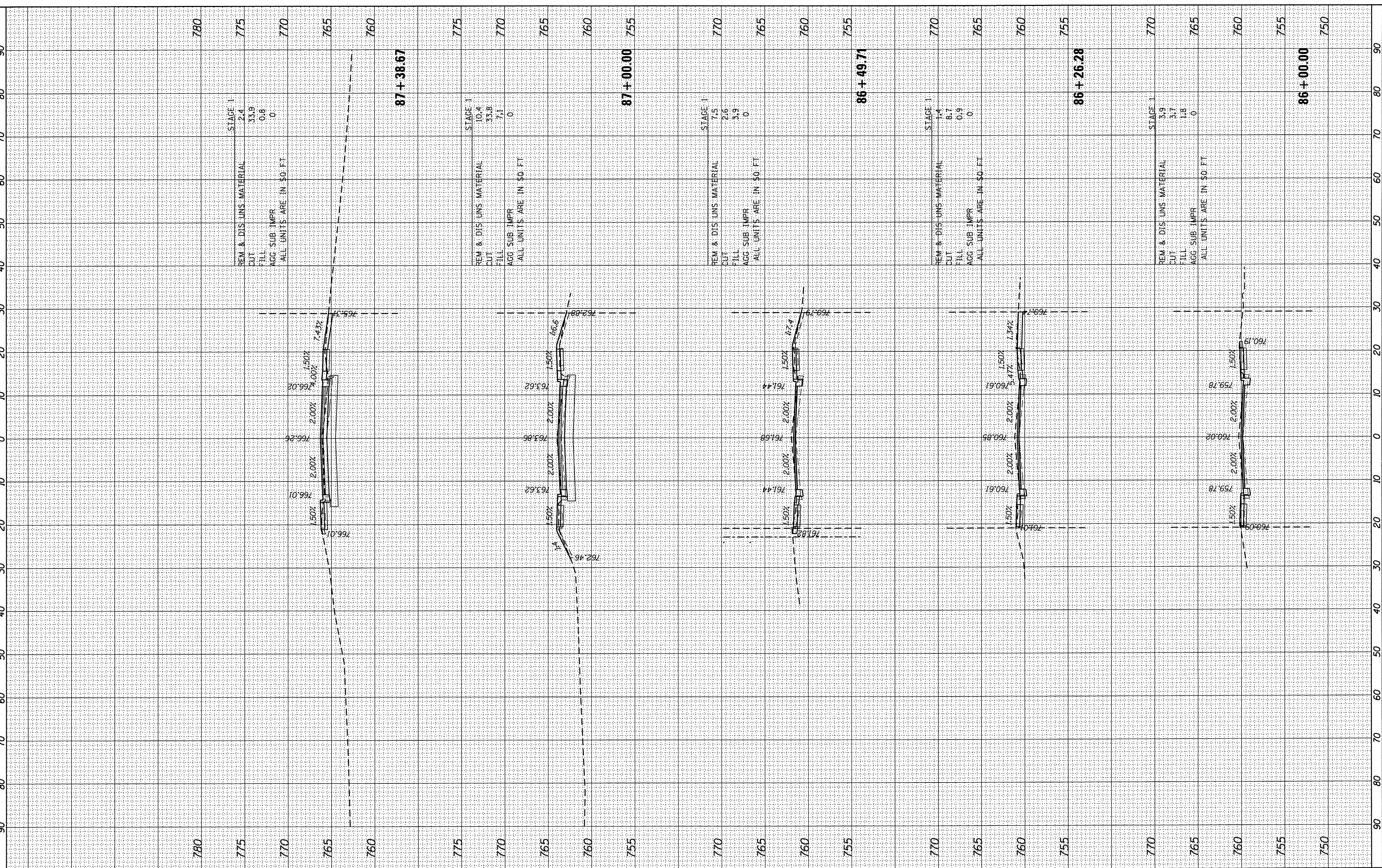
SCALE: 10H:10V SHEET NO. 15 OF 17 SHEETS STA. 83+89.63 TO STA. 85+51.67

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	93
CONTRACT NO.61D31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(812)				

FINAL SURVEY	BY	DATE
NO. _____		
NOTE BOOK		
NO. _____		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NO. _____		
NOTE BOOK		
NO. _____		
AREAS CHECKED		

HRG PROJECT NO.: 8650350
 HRG PROJ. CONTACT: 8650350-h xs-s John-dp
 FILE NAME: L_crt.dwg
 PLOT DRIVER: to label.plt



STAGE 1
 REM. & DIS. UNS. MATERIAL 2.4
 CUT 33.9
 FILL 0.8
 AGG. SUB. IMPR. 0
 ALL UNITS ARE IN SQ. FT.

STAGE 1
 REM. & DIS. UNS. MATERIAL 10.4
 CUT 33.8
 FILL 7.1
 AGG. SUB. IMPR. 0
 ALL UNITS ARE IN SQ. FT.

STAGE 1
 REM. & DIS. UNS. MATERIAL 7.5
 CUT 2.6
 FILL 3.9
 AGG. SUB. IMPR. 0
 ALL UNITS ARE IN SQ. FT.

STAGE 1
 REM. & DIS. UNS. MATERIAL 1.4
 CUT 8.7
 FILL 0.9
 AGG. SUB. IMPR. 0
 ALL UNITS ARE IN SQ. FT.

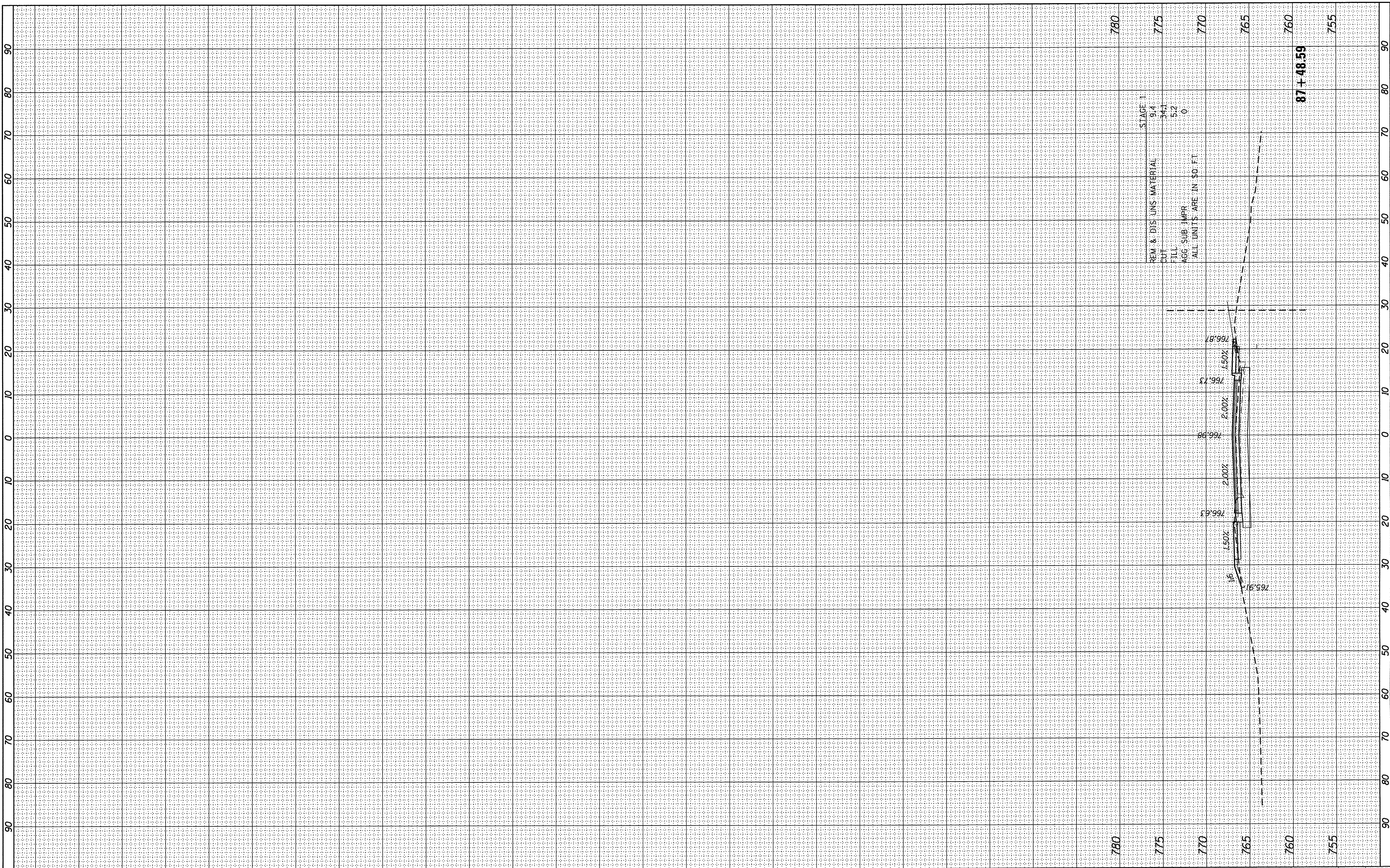
STAGE 1
 REM. & DIS. UNS. MATERIAL 3.9
 CUT 3.7
 FILL 1.8
 AGG. SUB. IMPR. 0
 ALL UNITS ARE IN SQ. FT.

	USER NAME = muzzio DESIGNED - MZ DRAWN - DMS CHECKED - DATE - 12/22/16	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS ST. JOHNS AVENUE	SCALE: 10H:10V	SHEET NO. 16 OF 17 SHEETS	STA. 86+00.00 TO STA. 87+38.67	MUN. ST. 8500	SECTION NO. 15-00013-00-PV	COUNTY MCHENRY	TOTAL SHEETS 95	SHEET NO. 94
		PLOT SCALE = 10H:10V PLOT DATE = 12/22/2016			CONTRACT NO. 61D31	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121						

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
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AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TABLET		
AREAS		
AREAS CHECKED		
NO.		

HRG PROJECT NO.: 8650350
 HRG PROJ. CONTACT: 8650350-h-xe-s.johnson
 FILE NAME: L_d.f.d. / c.f.g
 PLOT DRIVER: to label, bl



HRGreen.com
 Illinois Professional Design Firm
 # 184-001322

USER NAME = muzzzio	DESIGNED - MZ	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 10H:10V	CHECKED -	REVISED -
PLOT DATE = 12/22/2016	DATE - 12/22/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS ST JOHNS AVENUE	
SCALE: 10H:10V	SHEET NO. 17 OF 17 SHEETS
STA. 87+48.59 TO STA. 87+48.59	

MUN ST	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
8500	15-00013-00-PV	MCHENRY	95	95
CONTRACT NO. 61031				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-400318121				