

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	1
ILLINOIS		CONTRACT 61B33		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

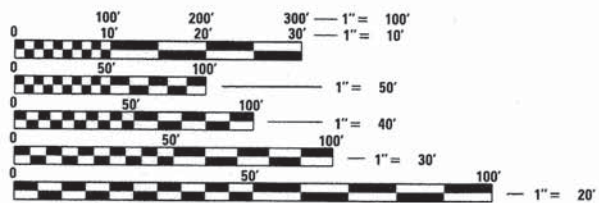
# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

MUN84 (STATION BOULEVARD EXTENSION)  
MERIDIAN LAKE DRIVE TO IL ROUTE 59  
COMMUTER PARKING LOT MODIFICATIONS  
SECTION NO. 13-00300-00-PK  
PROJECT NO. CMM-4003 (287)  
CITY OF AURORA  
DUPAGE COUNTY  
C-91-232-14

FOR INDEX OF SHEETS, SEE SHEET 2


**MERIDIAN LAKE DRIVE**

DESIGN DESIGNATION = OFF SYSTEM  
TRAFFIC VOLUME = 3,500 ADT (2014)  
POSTED SPEED = 30 MPH



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

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



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

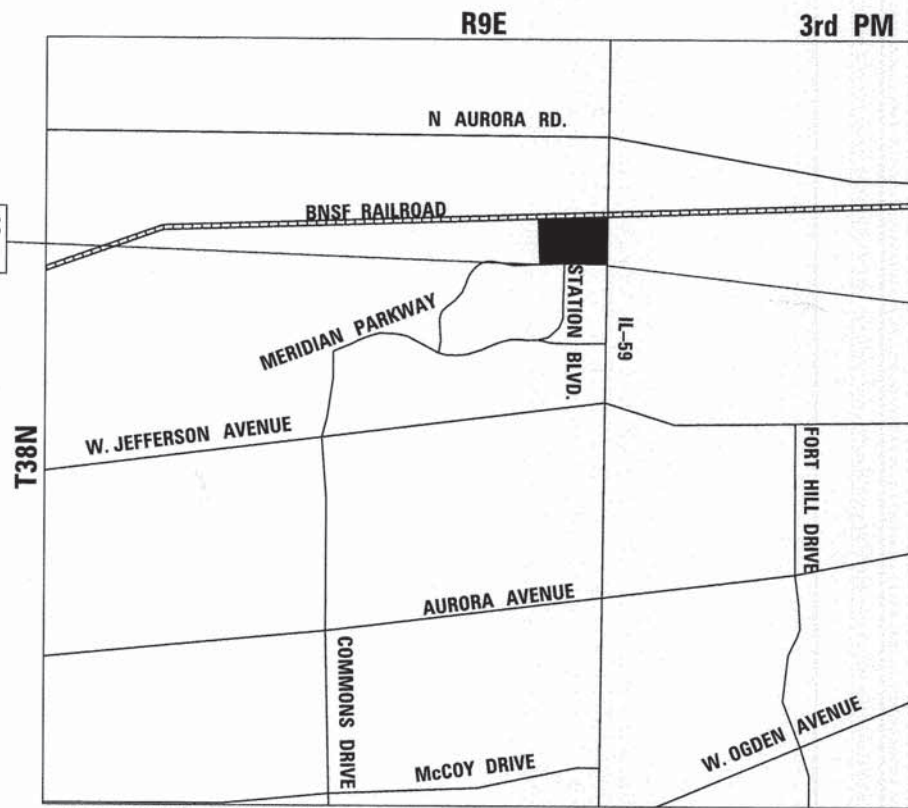
*Visio, Vertere, Virtute... "The Vision to Transform with Excellence"*



MICHAEL J. REHTORIK, P.E.  
EXPIRES: 11-30-15  
SHEETS: 1-87 & 95-101



CHRISTOPHER J. BURKE, S.E.  
EXPIRES: 11-30-16  
SHEETS: 88-94



NAPERVILLE TOWNSHIP LOCATION MAP  
(NOT TO SCALE)

GROSS LENGTH = 2,112.00 FT. (0.40 MILE)  
NET LENGTH = 2,112.00 FT. (0.40 MILE)



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED March 3, 2015  
*Kenneth Scholtz*  
CITY OF AURORA, DIRECTOR OF PUBLIC WORKS

PASSED MARCH 5, 2015  
*C. J. Holtz*  
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW MARCH 5, 2015  
*John F. ...*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

**GENERAL NOTES:**

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012 (REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2015.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, DUPAGE COUNTY AND THE CITY OF AURORA FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR WILL NOT BE PERMITTED TO SET UP A YARD OR FIELD OFFICE ON STATE OR CITY PROPERTY WITHOUT PRIOR WRITTEN PERMISSION OF THE ENGINEER.
- PRIOR TO NEW WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND TO VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITY LINES AND STRUCTURES THAT MAY BE IMPACTED BY THE PROPOSED WORK PRIOR TO ORDERING MATERIAL OR BEGINNING CONSTRUCTION. ANY DISCREPANCIES FROM THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES AFFECTED BY THE WORK.
- PAVEMENT AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND, IF DAMAGED, SHALL BE REPLACED PROMPTLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND IN CONFORMANCE WITH IDOT STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES ETC., SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATION, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THEREOF.
- ALL DIMENSIONS, INCLUDING RADII, ARE GIVEN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- FULL-DEPTH OR RESURFACING SAW CUTS SHALL BE USED TO REMOVE EXISTING PAVING AND APPURTENANCES FROM MATERIAL TO REMAIN IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS. THE COST OF THE SAW CUT SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
- ALL AREAS OF PLANNED SUBGRADE TREATMENT SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION BY A QUALIFIED SOILS INSPECTOR. ALL POTENTIALLY UNSTABLE/ UNSUITABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL (SSM). ANY AGGREGATE SUBGRADE IMPROVEMENTS (CY) AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION QUANTITIES NOT USED DURING CONSTRUCTION SHOULD BE DELETED FROM THE CONTRACT.
- THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONARY AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN AND PROTECT EXISTING UTILITIES, SEWERS, MAINS AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR SHALL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES, SEWERS AND MAINS WHICH WILL REMAIN IN SERVICE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND UTILITY COMPANY IF IT IS DETERMINED THAT TEMPORARY BRACING OR SUPPORT OF THE UTILITIES IS REQUIRED. THE PROTECTION AND/OR TEMPORARY BRACING OR SUPPORT OF UTILITIES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE BNSF RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE BNSF RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.

**DRAINAGE AND UTILITIES GENERAL NOTES:**

- EXISTING MANHOLE / CATCH BASIN RIMS SHALL BE ADJUSTED AS NOTED.
- ALL SEWER AND WATERMAIN CROSSINGS SHALL MEET WITH THE APPLICABLE LOCAL AND STATE GUIDELINES AS DESCRIBED IN THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- THE CONTRACTOR SHALL COORDINATE THE PROPOSED STORM SEWER CONSTRUCTION WITH ALL OTHER UTILITY ADJUSTMENTS AND INSTALLATIONS AS APPROVED BY THE ENGINEER.
- UNDERGROUND UTILITIES AND DRAINAGE SYSTEMS SHOWN ON THE PLANS ARE BASED ON AVAILABLE SURVEYS AND AS-BUILT INFORMATION. THE LOCATION OF UNDERGROUND FACILITIES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO VERIFY ALL UTILITY LOCATION AND DEPTHS.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN ALL SURFACE DRAINAGE WITHIN THE PROJECT LIMITS. ALL STORM FLOW MUST BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE DIRECTED BY ENGINEER.
- ANY EXISTING DRAINAGE FACILITIES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE. THIS WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE ENGINEER.
- ALL STORM SEWERS ARE RCP UNLESS OTHERWISE NOTED.
- OFFSETS AND TOP OF FRAME OR LID ELEVATIONS FOR STRUCTURES LOCATED IN THE GUTTER ARE GIVEN AT THE EDGE OF PAVEMENT.
- THE COST OF MAKING STORM SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER OR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE STORM SEWER BEING CONNECTED.
- THE EXISTING STORM SEWER TO REMAIN SHALL BE INSPECTED BY THE CONTRACTOR BEFORE CONSTRUCTION STARTS. ANY EXISTING ACCUMULATED MATERIAL SHALL BE DOCUMENTED BY THE CONTRACTOR. ANY UNDOCUMENTED ACCUMULATION OF MATERIAL FOUND IN THE STRUCTURES OR PIPES AFTER CONSTRUCTION IS COMPLETED SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING TRENCH EXCAVATIONS AS WELL AS SHORING TRENCH WALLS DURING UTILITY AND STORM SEWER OPERATIONS. THE COST OF COMPLIANCE WITH THE ABOVE, SHALL BE INCLUDED IN THE COST OF THE UTILITY BEING INSTALLED.
- TOP OF FRAME ("RIM") ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF EACH STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED, AS PART OF THE STRUCTURE COST.

**LIST OF ILLINOIS HIGHWAY STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-02	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-03	DEPRESSED CORNER FOR SIDEWALKS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN, TYPE C
602301-04	INLET, TYPE A
602401-03	MANHOLE, TYPE A
604001-04	FRAME AND LIDS, TYPE 1
604051-04	FRAME AND GRATE, TYPE 11
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
664001-02	CHAIN LINK FENCE
701006-05	OFF-ROAD OPERATIONS, 2L, 2W 15' TO 24' FROM PAVEMENT EDGE
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24' FROM EDGE OF PAVEMENT
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
701502-06	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES

**LIST OF DISTRICT ONE STANDARDS**

BD-36	FIRE HYDRANT TO BE MOVED
BE-301	LIGHT POLE FOUNDATION, CONCRETE, 40' TO 47 1/2' M.H., 15" BOLT CIRCLE
BE-702	MISCELLANEOUS DETAILS, SHEET A - CABLE SPLICE, POLE WIRING, TRENCH DETAIL
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN

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FILE NAME =	USER NAME = j_haly	DESIGNED - HS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, GENERAL NOTES, AND HIGHWAY STANDARDS</b>	MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
E:\2005\050806\050806.AUR_PHI1\Drawings\	050806.AUR_PHI1-sht02-gerno	DRAWN - HS	REVISED -			0084	13-00300-00-PK	DUPAGE	101	2	
82-GN	PLOT SCALE = 1"	CHECKED - JH	REVISED -			SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.					
	PLOT DATE = 3/25/2015	DATE - 02-02-15	REVISED -			ILLINOIS FED. AID PROJECT CONTRACT NO. 61B33					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 004	ROADWAY 0% FEDERAL 100% LOCAL 0043
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1,053	1,053	
Δ 20101700	SUPPLEMENTAL WATERING	UNIT	100	100	
20200100	EARTH EXCAVATION	CU YD	7,000	7,000	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	5,102	5,102	
20800150	TRENCH BACKFILL	CU YD	1,208	1,208	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	3,729	3,729	
Δ 25000110	SEEDING, CLASS 1A	ACRE	1.85	1.85	
Δ 25000312	SEEDING, CLASS 4A	ACRE	0.63	0.63	
Δ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	167	167	
Δ 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	167	167	
Δ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	167	167	
Δ 25100115	MULCH, METHOD 2	ACRE	1.85	1.85	
Δ 25100630	EROSION CONTROL BLANKET	SQ YD	11,600	11,600	
28000400	PERIMETER EROSION BARRIER	FOOT	3,715	3,715	
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
28000510	INLET FILTERS	EACH	104	104	
28100105	STONE RIPRAP, CLASS A3	SQ YD	60	60	
28100107	STONE RIPRAP, CLASS A4	SQ YD	66	66	
28200200	FILTER FABRIC	SQ YD	126	126	
30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SQ YD	24,800	24,800	
35101500	AGGREGATE BASE COURSE, TYPE B	CU YD	1,500	1,500	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	3,700	3,700	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	45,196	45,196	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	8,438	8,438	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	7,384	7,384	
42000301	PORTLAND CEMENT CONCRETE JOINTED PAVEMENT 8"	SQ YD	2,704	2,704	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	29,847	29,847	
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	833	833	
44000100	PAVEMENT REMOVAL	SQ YD	14,423	14,423	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	47,286	47,286	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	13,879	13,879	
44000600	SIDEWALK REMOVAL	SQ FT	20,853	20,853	
50105220	PIPE CULVERT REMOVAL	FOOT	61	61	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	
54011206	PRECAST CONCRETE BOX CULVERT 12'X6'	FOOT	258	258	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	7	7	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1	

\* SPECIAL PROVISION  
A SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 004	ROADWAY 0% FEDERAL 100% LOCAL 0043
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2	
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	247	247	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	575	575	
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	137	137	
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	150	150	
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	14	14	
542C0211	PIPE CULVERTS, CLASS C, TYPE 1 6"	FOOT	6	6	
542C0217	PIPE CULVERTS, CLASS C, TYPE 1 12"	FOOT	234	234	
55100200	STORM SEWER REMOVAL 6"	FOOT	77	77	
55100300	STORM SEWER REMOVAL 8"	FOOT	36	36	
55100500	STORM SEWER REMOVAL 12"	FOOT	636	636	
55100900	STORM SEWER REMOVAL 18"	FOOT	153	153	
55101200	STORM SEWER REMOVAL 24"	FOOT	117	117	
Δ 56100005	DUCTILE IRON WATER MAIN TEE, 6" X 6"	EACH	1		1
Δ 56101144	DUCTILE IRON WATER MAIN REDUCER, 6" X 2"	EACH	1		1
* Δ 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	725		725
* Δ 56104600	WATER VALVES 2"	EACH	1		1
* Δ 56104900	WATER VALVES 6"	EACH	1		1
Δ 56109418	DUCTILE IRON WATER MAIN FITTINGS 6" 45.00 DEGREE BEND	EACH	2		2
Δ 56200700	WATER SERVICE LINE 2"	FOOT	121		121
* Δ 56400100	FIRE HYDRANTS TO BE MOVED	EACH	1		1
* Δ 56500800	DOMESTIC WATER SERVICE BOXES	EACH	1		1
60100080	FRENCH DRAINS	CU YD	17	17	
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SQ YD	205	205	
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE I FRAME, OPEN LID	EACH	1	1	
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE II FRAME AND GRATE	EACH	2	2	
60206905	CATCH BASINS, TYPE C, TYPE I FRAME, OPEN LID	EACH	3	3	
60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE I FRAME, OPEN LID	EACH	4	4	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE I FRAME, CLOSED LID	EACH	2	2	
60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE II FRAME AND GRATE	EACH	4	4	
60224445	MANHOLES, TYPE A, 7'-DIAMETER, TYPE I FRAME, OPEN LID	EACH	1	1	
60234200	INLETS, TYPE A, TYPE I FRAME, OPEN LID	EACH	4	4	
60236800	INLETS, TYPE A, TYPE II FRAME AND GRATE	EACH	9	9	
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE I FRAME, CLOSED LID	EACH	1	1	
60404800	FRAMES AND GRATES, TYPE II	EACH	1	1	
60406000	FRAMES AND LIDS, TYPE I, OPEN LID	EACH	34	34	

\* SPECIAL PROVISION  
A SPECIALTY ITEMS

FILE NAME = E:\2005\05086\05086.AUR\_PHI\Drawings\M...  
 USER NAME = #USER#  
 DESIGNER - EIH  
 DRAWN - EIH  
 CHECKED - JH  
 PLOT SCALE = #SCALE#  
 PLOT DATE = 3/3/2015

DESIGNED - EIH  
 REVISIONS -  
 REVISIONS -  
 REVISIONS -  
 REVISIONS -  
 DATE - 02-02-15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	3
CONTRACT NO. 61B33				

ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 004	ROADWAY 0% FEDERAL 100% LOCAL 0043
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	24	24	
60500040	REMOVING MANHOLES	EACH	4	4	
60500050	REMOVING CATCH BASINS	EACH	11	11	
60500060	REMOVING INLETS	EACH	16	16	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	14,179	14,179	
Δ 63200310	GUARDRAIL REMOVAL	FOOT	95	95	
Δ 66400105	CHAIN LINK FENCE, 4'	FOOT	60	60	
Δ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	500	500	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3,798	3,798	
72000100	SIGN PANEL - TYPE 1	SO FT	157	157	
72000200	SIGN PANEL - TYPE 2	SO FT	24	24	
72300100	INSTALL EXISTING SIGN PANEL	SO FT	78	78	
72900100	METAL POST - TYPE A	FOOT	815	815	
72900200	METAL POST - TYPE B	FOOT	56	56	
Δ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	435	435	
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	66,967	66,967	
Δ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,569	1,569	
Δ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	921	921	
Δ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	272	272	
78300100	PAVEMENT MARKING REMOVAL	SO FT	947	947	
Δ 80400100	ELECTRIC SERVICE INSTALLATION	EACH	3	3	
*Δ 80400200	ELECTRIC UTILITY SERVICING CONNECTION	LSUM	1	1	
Δ 80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1	1	
Δ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	492	492	
Δ 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	185	185	
Δ 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	456	456	
Δ 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	890	890	
Δ 81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	4,242	17	4,225
Δ 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1,931	37	1,894
Δ 81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	1,611	485	1,126
Δ 81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	201		201
Δ 81400100	HANDHOLE	EACH	9	9	
Δ 81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	6		6
Δ 81400740	DOUBLE HANDHOLE, COMPOSITE CONCRETE	EACH	1		1

\* SPECIAL PROVISION  
Δ SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 004	ROADWAY 0% FEDERAL 100% LOCAL 0043
Δ 81500120	GULFBOX JUNCTION, COMPOSITE CONCRETE	EACH	3	3	
Δ 81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1,343	1,343	
Δ 81603063	UNIT DUCT, 600V, 4-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2,237	2,237	
Δ 81603065	UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1,226	1,226	
Δ 81603072	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1,180	1,180	
Δ 81603100	UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2,562	2,562	
Δ 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	375	375	
Δ 81702170	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	111	111	
Δ 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	68	68	
Δ 83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	76	76	
Δ 84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	29	29	
Δ 84200804	REMOVAL OF POLE FOUNDATION	EACH	29	29	
*Δ 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
Δ 85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	20	20	
Δ 87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	30,369	3,739	26,630
Δ 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	11,305	3,861	7444
Δ 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,870	3,870	
Δ 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,402	3,402	
Δ 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,663	4,663	
Δ 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,595	1,595	
Δ 87301305	ELECTRIC CABLE IN CONDUIT LEAD-IN, NO 14, 1-PAIR	FOOT	395	395	
Δ 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	484	484	
Δ 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,574	1,574	
Δ 87500600	TRAFFIC SIGNAL POST, 10 FT.	EACH	7	7	
Δ 87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	9	9	
Δ 87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	4	4	
Δ 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	64	64	
Δ 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4	
Δ 87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	24	24	
Δ 87900200	DRILL EXISTING HANDHOLE	EACH	6	6	
Δ 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6	6	
Δ 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9	9	
Δ 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4	4	
Δ 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4	4	
Δ 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	12	12	
Δ 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10	10	
Δ 88500100	INDUCTIVE LOOP DETECTOR	EACH	1	1	

\* SPECIAL PROVISION  
Δ SPECIALTY ITEMS

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 PLOT DATE = 3/3/2015

DESIGNED - EIH  
 DRAWN - EIH  
 CHECKED - JH  
 DATE - 02-02-15

REVISED -  
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	4
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 004	ROADWAY 0% FEDERAL 100% LOCAL 0043
Δ 88600100	DETECTOR LOOP, TYPE I	FOOT	243	243	
Δ 88700200	LIGHT DETECTOR	EACH	2	2	
Δ 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1	1	
Δ 88800100	PEDESTRIAN PUSH-BUTTON	EACH	12	12	
Δ 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	23,205	23,205	
* Δ 89502380	REMOVE EXISTING HANDHOLE	EACH	1	1	
Δ A2000320	TREE, ACER MIYABEI MORTON (STATE STREET MIYABE MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	14	14	
Δ A2008020	TREE, TILIA CORDATA (LITTLE LEAF LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	26	26	
Δ B2004520	TREE, MALUS RED JEWEL (RED JEWEL CRAB APPLE), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	17	17	
Δ B2006220	TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	8	8	
Δ D2002772	EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	36	36	
* Δ K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	24	24	
* Δ X0322283	VIDEO SURVEILLANCE SYSTEM COMPLETE	EACH	1		1
* X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	10	10	
* X0322936	REMOVE EXISTING FLARED END SECTION	EACH	4	4	
* X0323569	STEEL POST REMOVAL	EACH	101	101	
* Δ X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	364	364	
* Δ X0326266	ETHERNET SWITCH	EACH	1	1	
* Δ X0326784	MAINTAIN EXISTING LIGHTING CONTROLLER	EACH	1	1	
* Δ X0326885	VIDEO DETECTION SYSTEM	EACH	1	1	
* X0327146	RELOCATE BIKE RACK	EACH	6	6	
* Δ X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4	4	
* X0327726	MEMBRANE WATERPROOFING FOR CULVERTS	SO YD	440	440	
* X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	300	300	
* Δ X5640150	FIRE HYDRANT ASSEMBLY COMPLETE	EACH	1		1
* X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	58	58	
* X6040205	FRAMES AND LIDS, SPECIAL	EACH	12	12	
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1	1	
* Δ X8211125	LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL	EACH	8	8	
* Δ X8300001	LIGHT POLE, SPECIAL	EACH	6	6	
* Δ X8360210	LIGHT POLE FOUNDATION, 24" DIAMETER, SPECIAL	FOOT	399	399	
* Δ X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1	
* Δ X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1	
* Δ X8730320	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 20 3/C, TWISTED, SHIELDED	FOOT	145	145	
* Δ X8770127	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	1	1	
* Δ X8770135	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH	2	2	
* Δ X8770142	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT. (SPECIAL)	EACH	1	1	

\* SPECIAL PROVISION  
Δ SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODES	
				ROADWAY 80% FEDERAL 20% LOCAL 004	ROADWAY 0% FEDERAL 100% LOCAL 0043
* Δ X8950090	RELOCATE EXISTING LIGHTING CONTROLLER	EACH	2	2	
* Δ X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	1	1	
* Δ X8950425	REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT	L SUM	1		1
* Δ XX003584	VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT	FOOT	145	145	
* Δ XX006144	SEEDING, MESIC PRAIRIE	ACRE	0.80	0.80	
* Δ XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1	1	
* Δ XX007765	WETLAND MITIGATION PLANT / SEEDING MIX	ACRE	0.39	0.39	
* XX008686	BIKE SHELTER	EACH	1	1	
* Z0004002	BOLLARDS	EACH	36	36	
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	64	64	
* Δ Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6	6	
* Δ Z0033046	RE-OPTIMIZED TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1	1	
* Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
* Δ Z0044298	PRESSURE CONNECTION TO EXISTING WATER MAIN	EACH	1		1
* Z0062456	TEMPORARY PAVEMENT	SO YD	363	363	
* Δ K0013000	PERENIAL PLANTS, PRAIRIE TYPE, 2" DIAMETER BY 4" PLUG	UNIT	165	165	
* Δ K0013030	PERENIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" PLUG	UNIT	14.25	14.25	
* Δ K1003679	MULCH	CU YD	195	195	
* Δ A2001980	TREE, ACER TRUNCATUM (NORWEGIAN SUNSET MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	49	49	
* Δ XX009020	LUMINAIRE, LED, TYPE 3, SPECIAL	EACH	2	2	
* Δ XX009021	LUMINAIRE, LED, TYPE 4, SPECIAL	EACH	22	22	
* Δ XX009022	LUMINAIRE, LED, TYPE 5, SPECIAL	EACH	66	66	
* Δ XX009023	LIGHT POLE, ALUMINUM, 20 FT., SPECIAL	EACH	2	2	
* Δ XX009024	LIGHT POLE, ALUMINUM, 39 FT., SPECIAL	EACH	33	33	
# Z0076600	TRAINEES	Hour	1,000		
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	1,000		

\* SPECIAL PROVISION #0042  
Δ SPECIALTY ITEM

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CHECKED - JH  
DATE - 02-02-15

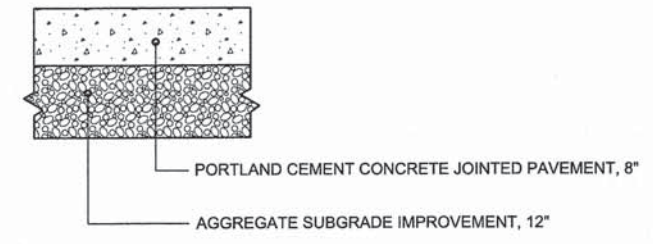
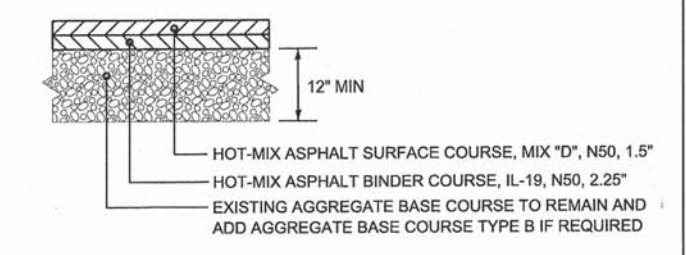
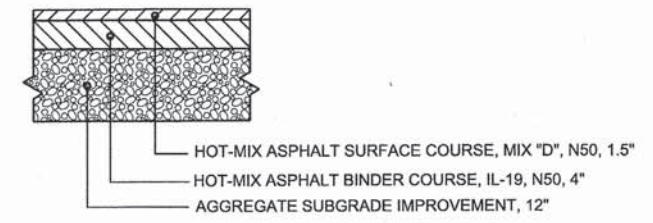
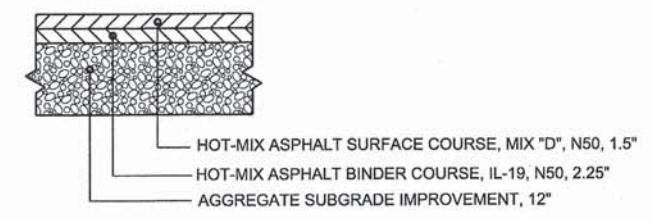
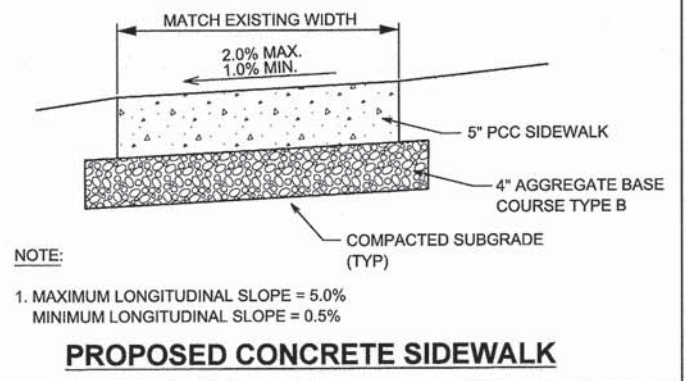
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	5
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

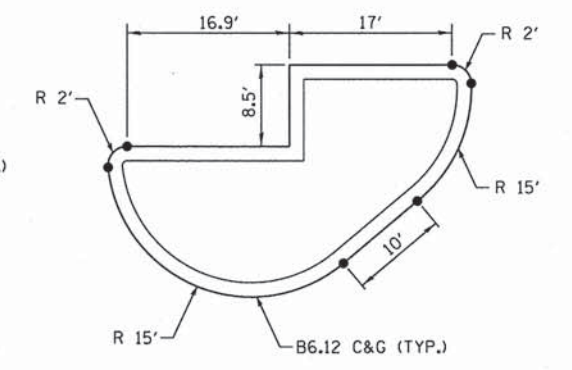
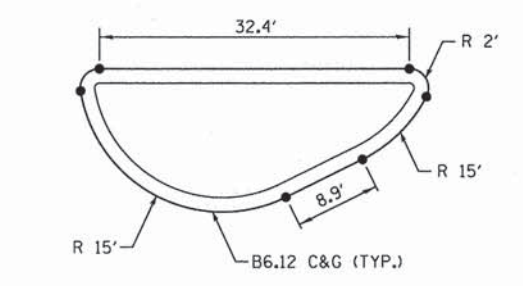
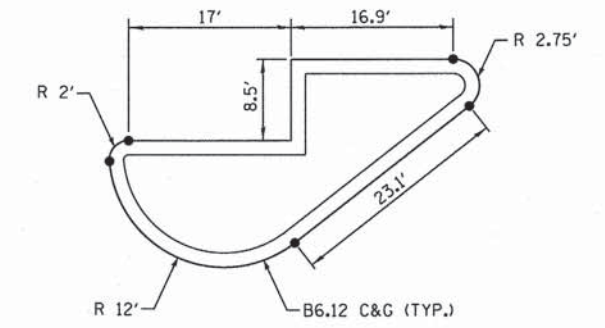
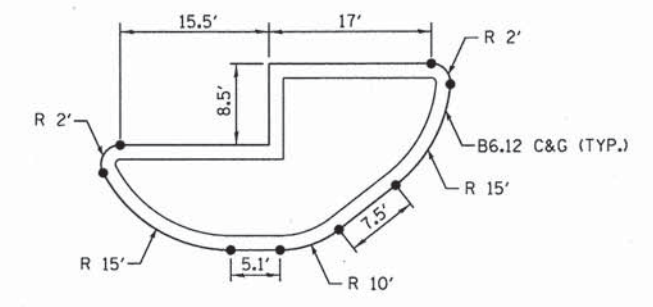
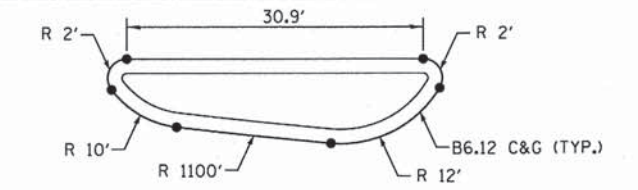
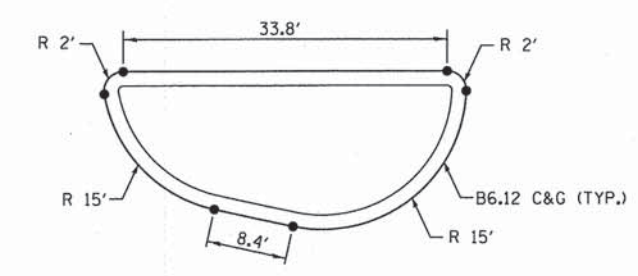
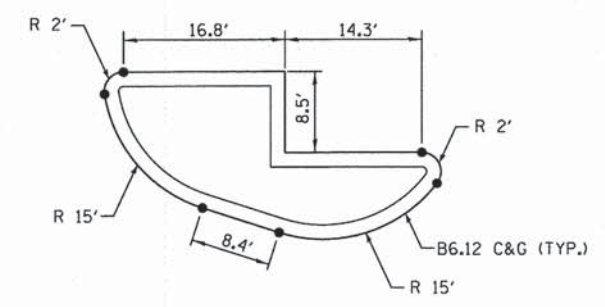
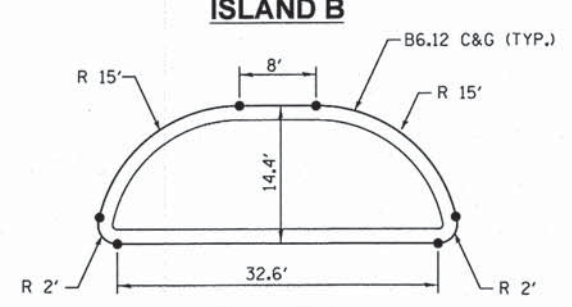
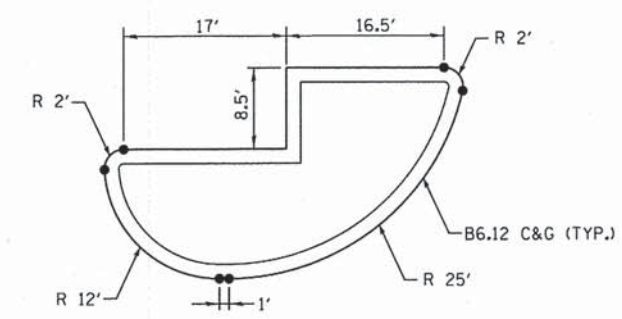
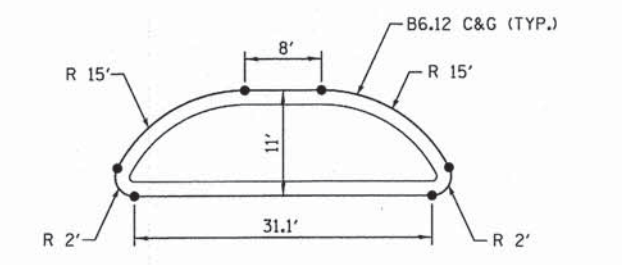


**PAVEMENT TYPICAL SECTIONS**

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ Ndes
<b>PAVEMENT RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"	4% @ 50 Gyr.
<b>FULL-DEPTH PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"	4% @ 50 Gyr.
<b>MAIN ENTRANCE DRIVEWAYS</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, HMA BINDER IL-19.0, N50; 4"	4% @ 50 Gyr.

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
- THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS.



**ISLAND DETAILS**

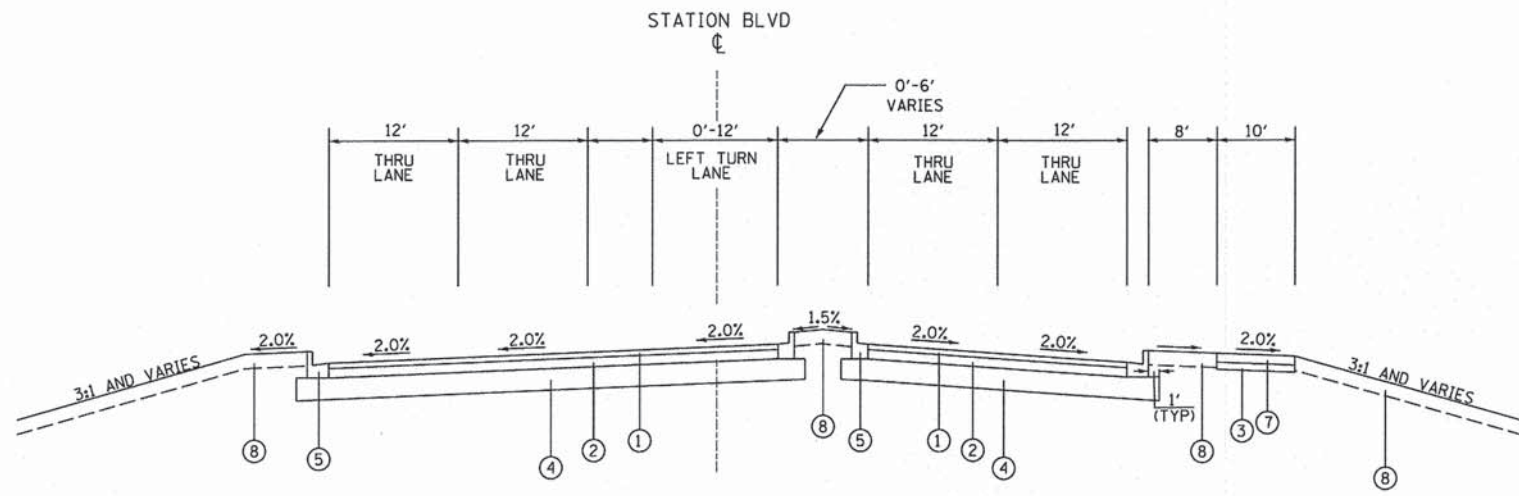


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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

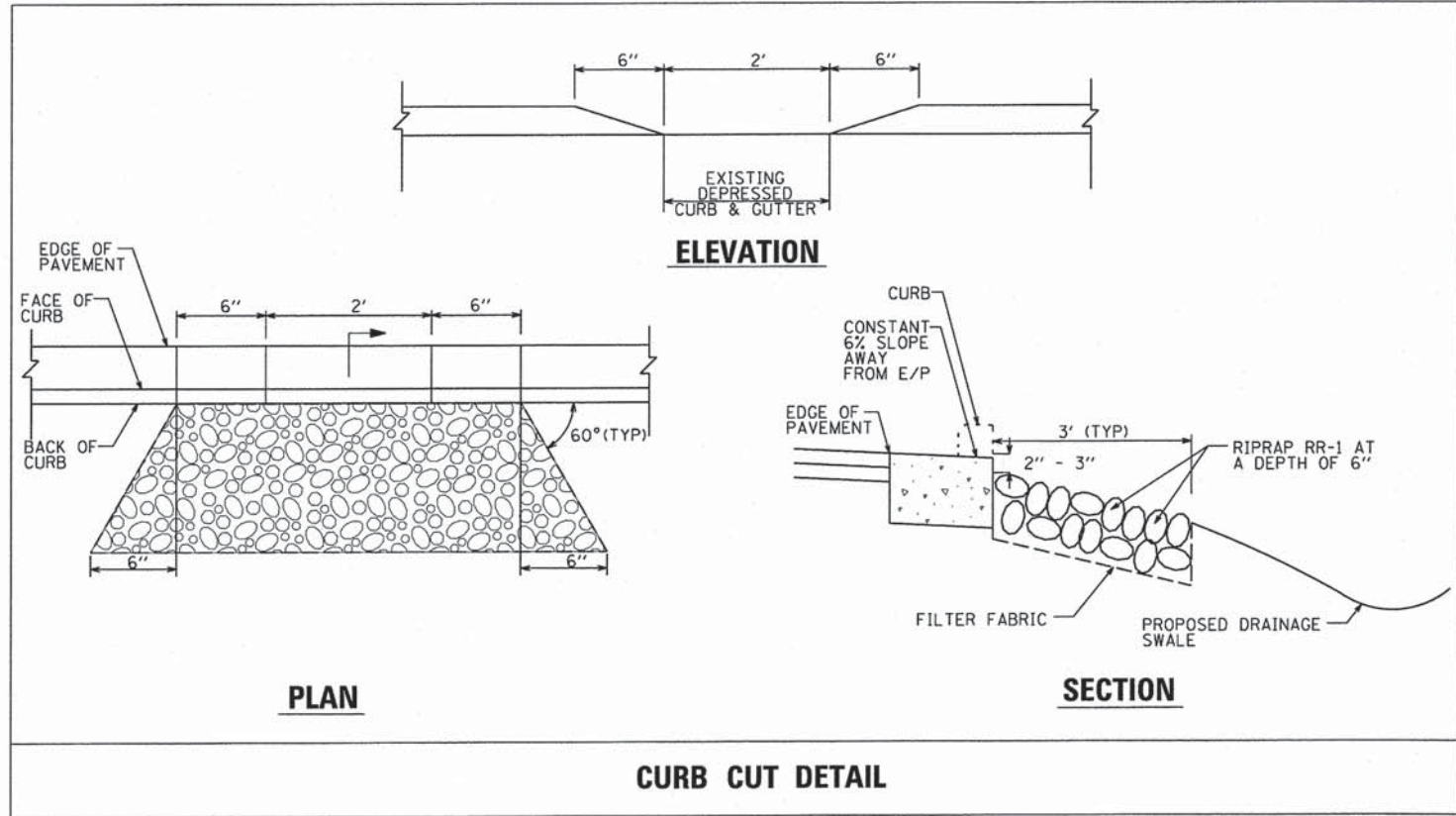
PAVEMENT TYPICAL SECTIONS AND ISLAND DETAILS	
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS STA. TO STA.

MUN 0084	SECTION 13-00300-00-PK	COUNTY DUPAGE	TOTAL SHEETS 101	SHEET NO. 6
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

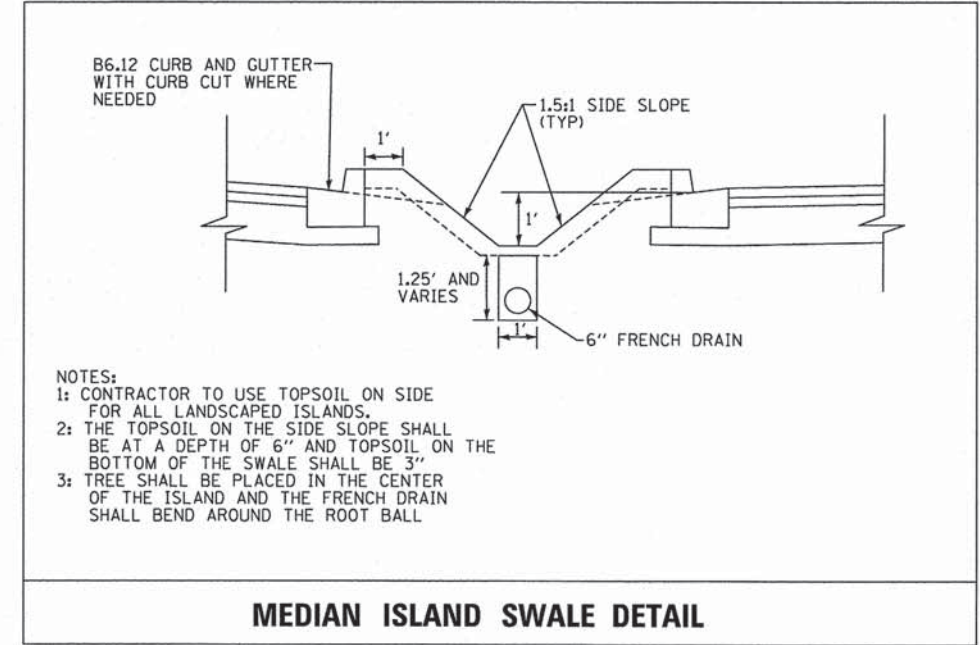


- PROPOSED LEGEND**
- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"
  - ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"
  - ③ AGGREGATE BASE COURSE, TYPE B, 4"
  - ④ AGGREGATE SUBGRADE IMPROVEMENT, 12"
  - ⑤ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
  - ⑦ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
  - ⑧ TOPSOIL FURNISH AND PLACE (SEE LANDSCAPE PLANS FOR DEPTHS AND PLANT MATERIAL)

**PROPOSED TYPICAL SECTION  
STA 30+20.75 TO STA 33+00.00 STATION BOULEVARD**



**CURB CUT DETAIL**



- NOTES:**
- 1: CONTRACTOR TO USE TOPSOIL ON SIDE FOR ALL LANDSCAPED ISLANDS.
  - 2: THE TOPSOIL ON THE SIDE SLOPE SHALL BE AT A DEPTH OF 6" AND TOPSOIL ON THE BOTTOM OF THE SWALE SHALL BE 3"
  - 3: TREE SHALL BE PLACED IN THE CENTER OF THE ISLAND AND THE FRENCH DRAIN SHALL BEND AROUND THE ROOT BALL

**MEDIAN ISLAND SWALE DETAIL**



USER NAME = #USER#	DESIGNED - HS	REVISED -
PLOT SCALE = #SCALE#	DRAWN - HS	REVISED -
PLOT DATE = 3/3/2015	CHECKED - JH	REVISED -
	DATE - 03-04-15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED TYPICAL SECTION AND MEDIAN ISLAND AND CURB CUT DETAILS</b>			
MUN	SECTION	COUNTY	TOTAL SHEETS
0084	13-00300-00-PK	DUPAGE	101
			SHEET NO.
			7
CONTRACT NO. 61B33			
ILLINOIS FED. AID PROJECT			

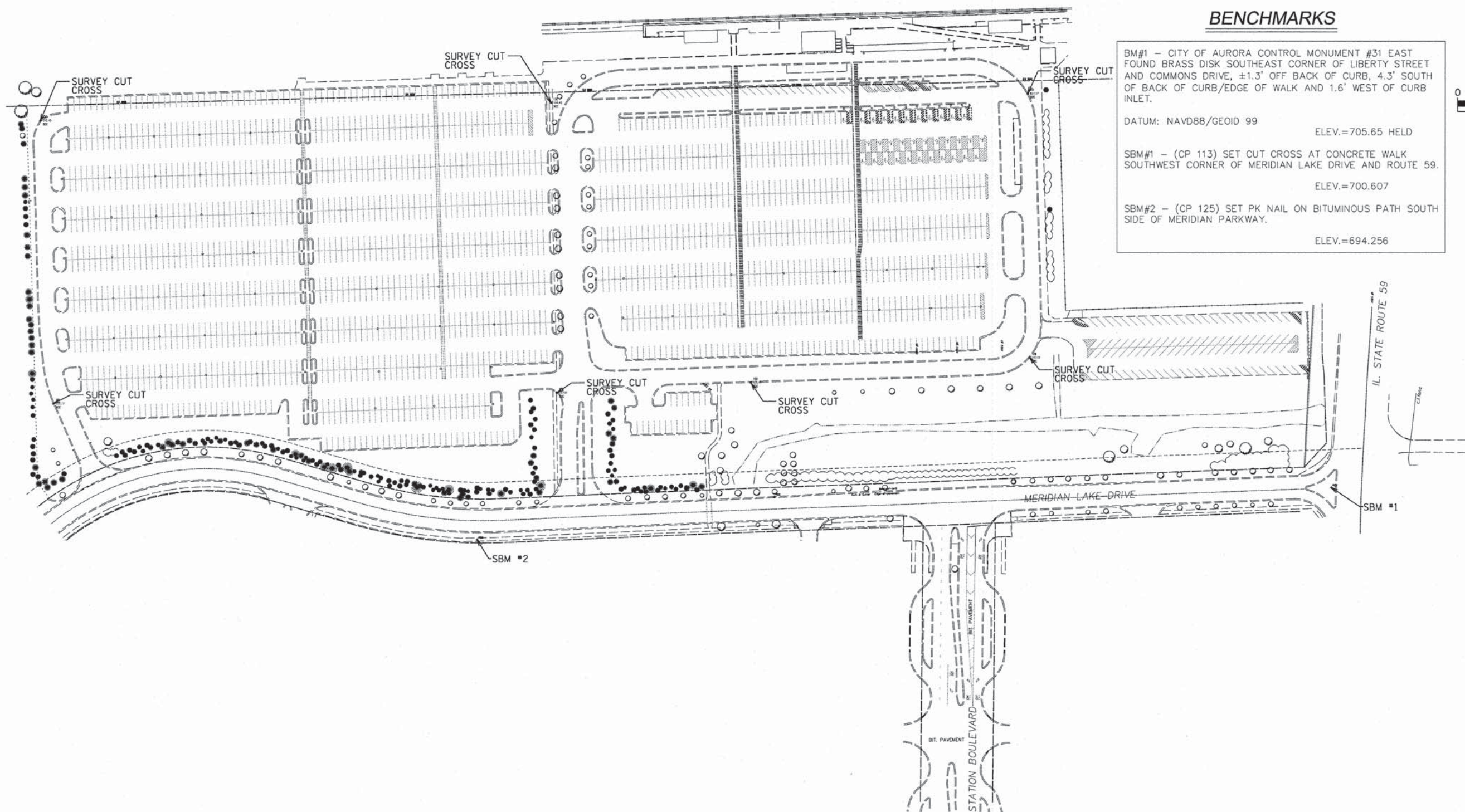
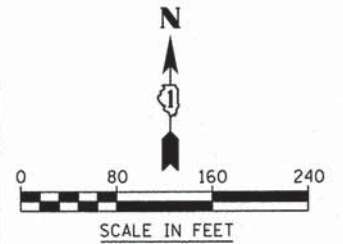
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

### BENCHMARKS

BM#1 - CITY OF AURORA CONTROL MONUMENT #31 EAST FOUND BRASS DISK SOUTHEAST CORNER OF LIBERTY STREET AND COMMONS DRIVE, ±1.3' OFF BACK OF CURB, 4.3' SOUTH OF BACK OF CURB/EDGE OF WALK AND 1.6' WEST OF CURB INLET.  
 DATUM: NAVD88/GEOID 99 ELEV.=705.65 HELD

SBM#1 - (CP 113) SET CUT CROSS AT CONCRETE WALK SOUTHWEST CORNER OF MERIDIAN LAKE DRIVE AND ROUTE 59.  
 ELEV.=700.607

SBM#2 - (CP 125) SET PK NAIL ON BITUMINOUS PATH SOUTH SIDE OF MERIDIAN PARKWAY.  
 ELEV.=694.256



V3 Companies  
 7325 Janes Avenue  
 Woodridge, IL 60517  
 630.724.9200 phone  
 630.724.9202 fax  
 www.v3co.com

USER NAME = #USER#	DESIGNED - HS	REVISED -
PLOT SCALE = #SCALE#	DRAWN - HS	REVISED -
PLOT DATE = 3/3/2015	CHECKED - JH	REVISED -
	DATE - 03-04-15	REVISED -

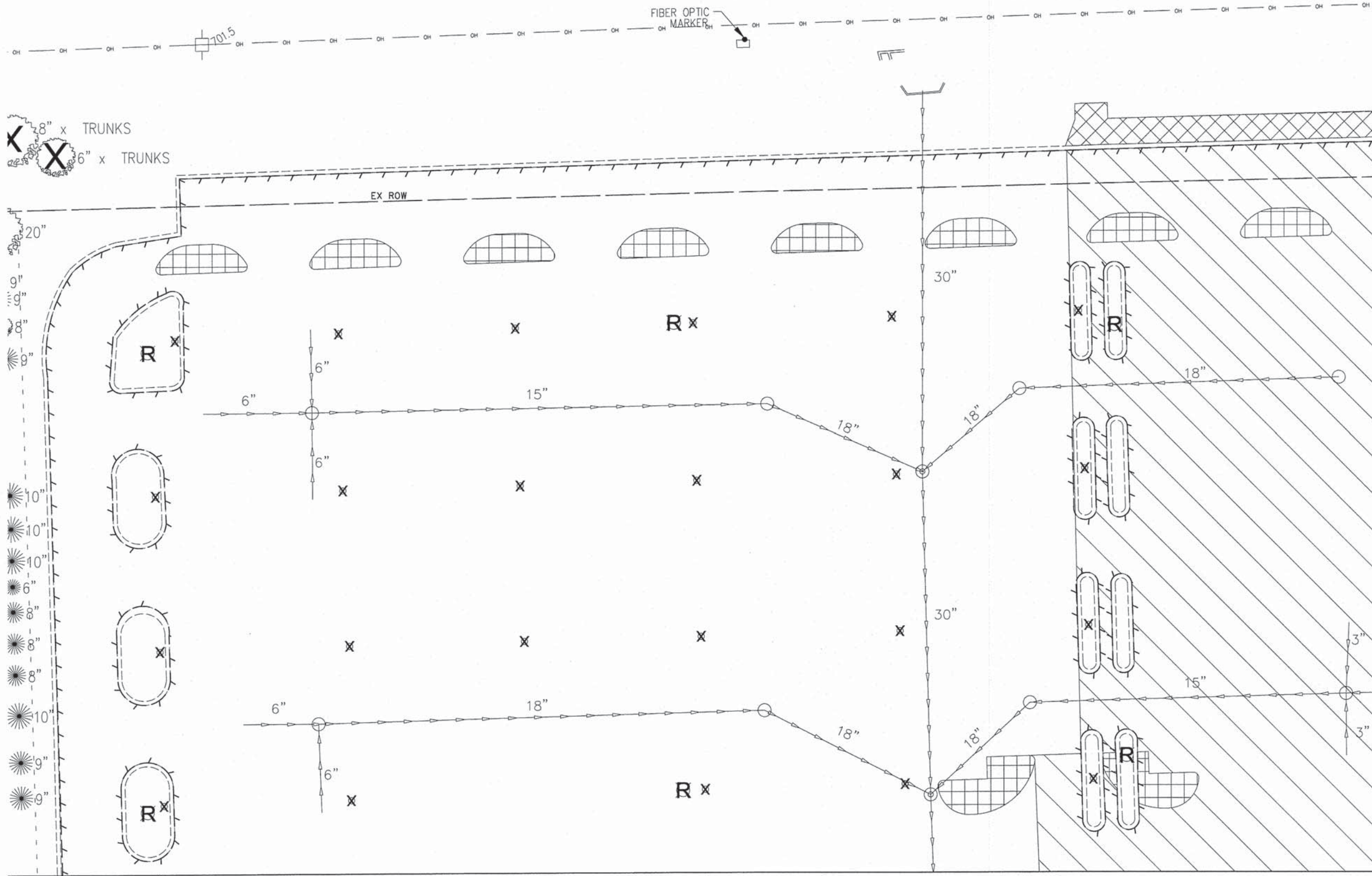
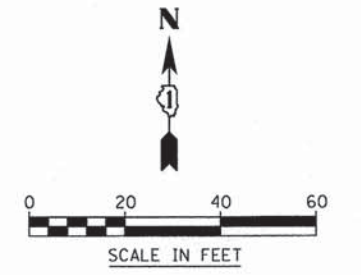
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: 1"=80'    SHEET 1 OF 1 SHEETS    STA.    TO STA.

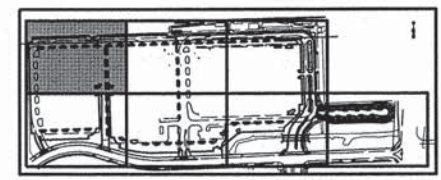
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	8
ILLINOIS FED. AID PROJECT				





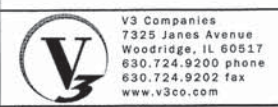
MATCH LINE SEE SHEET 10

- LEGEND**
- STORM SEWER PIPE REMOVAL
  - CURB & GUTTER REMOVAL
  - R** REMOVAL OF LIGHTING UNIT
  - RS OR RS** STORM SEWER STRUCTURE REMOVAL
  - TREE REMOVAL
  - x** STEEL POST REMOVAL
  - HMA SURFACE REMOVAL  
AGGREGATE SUBBASE TO REMAIN
  - FULL DEPTH PAVEMENT REMOVAL
  - FULL DEPTH PAVEMENT REMOVAL FOR HEAVY DUTY PAVEMENT
  - SIDEWALK REMOVAL



KEY MAP

MATCH LINE SEE SHEET 12



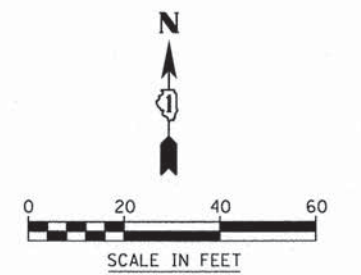
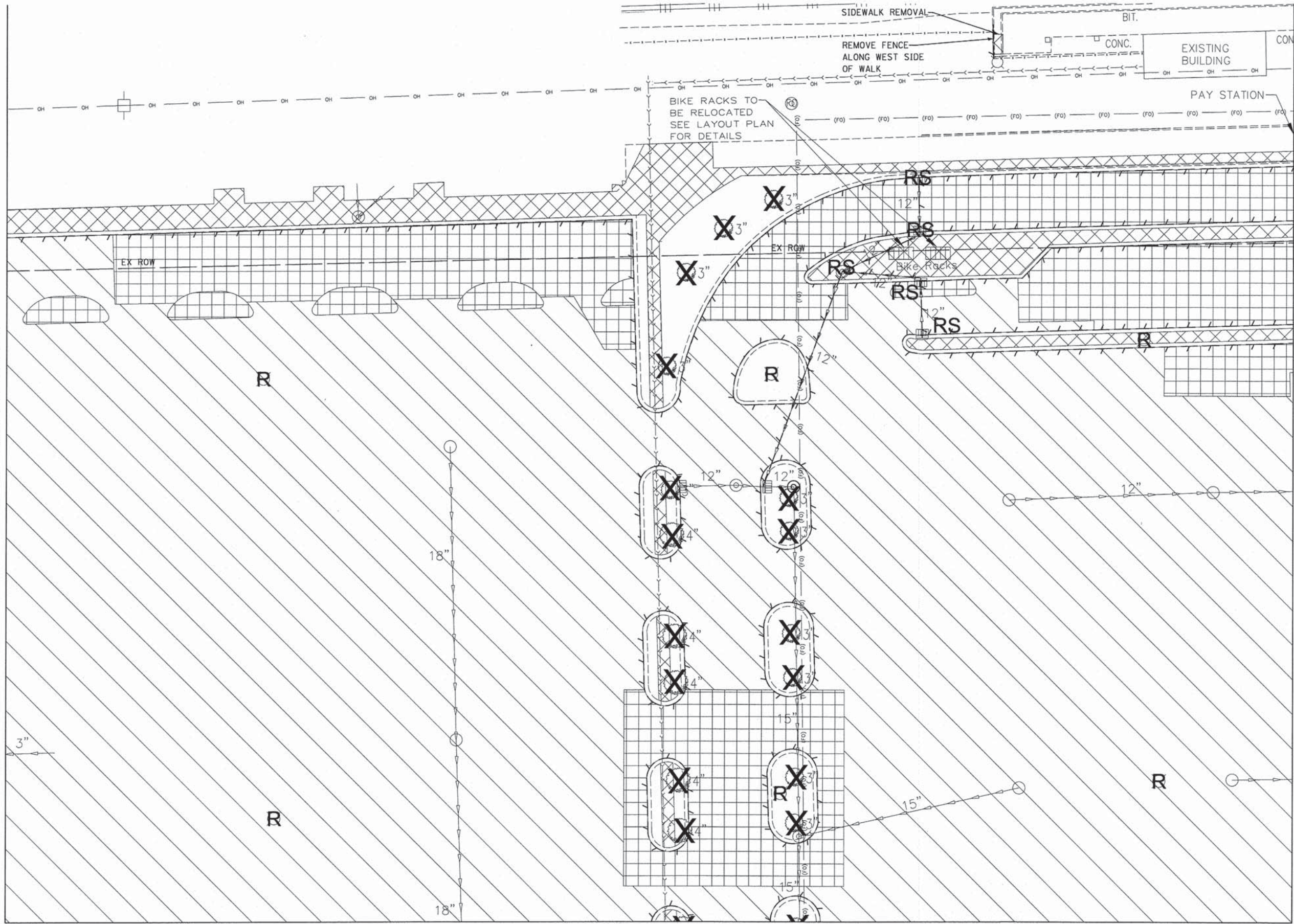
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PLOT SCALE = #SCALE#	DRAWN - OB	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN**

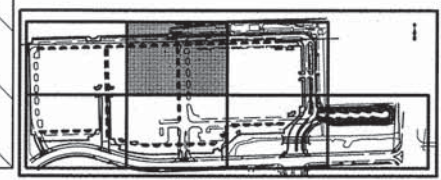
SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	9
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



MATCH LINE SEE SHEET 11

- LEGEND
- STORM SEWER PIPE REMOVAL
  - CURB & GUTTER REMOVAL
  - REMOVAL OF LIGHTING UNIT
  - STORM SEWER STRUCTURE REMOVAL
  - TREE REMOVAL
  - STEEL POST REMOVAL
  - HMA SURFACE REMOVAL  
AGGREGATE SUBBASE TO REMAIN
  - FULL DEPTH PAVEMENT REMOVAL
  - FULL DEPTH PAVEMENT REMOVAL FOR HEAVY DUTY PAVEMENT
  - SIDEWALK REMOVAL



KEY MAP

MATCH LINE SEE SHEET 9

MATCH LINE SEE SHEET 13



USER NAME = #USER#  
 PLOT SCALE = #SCALE#  
 PLOT DATE = 3/3/2015

DESIGNED - JH  
 DRAWN - OB  
 CHECKED - MJR  
 DATE - 03-04-15

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

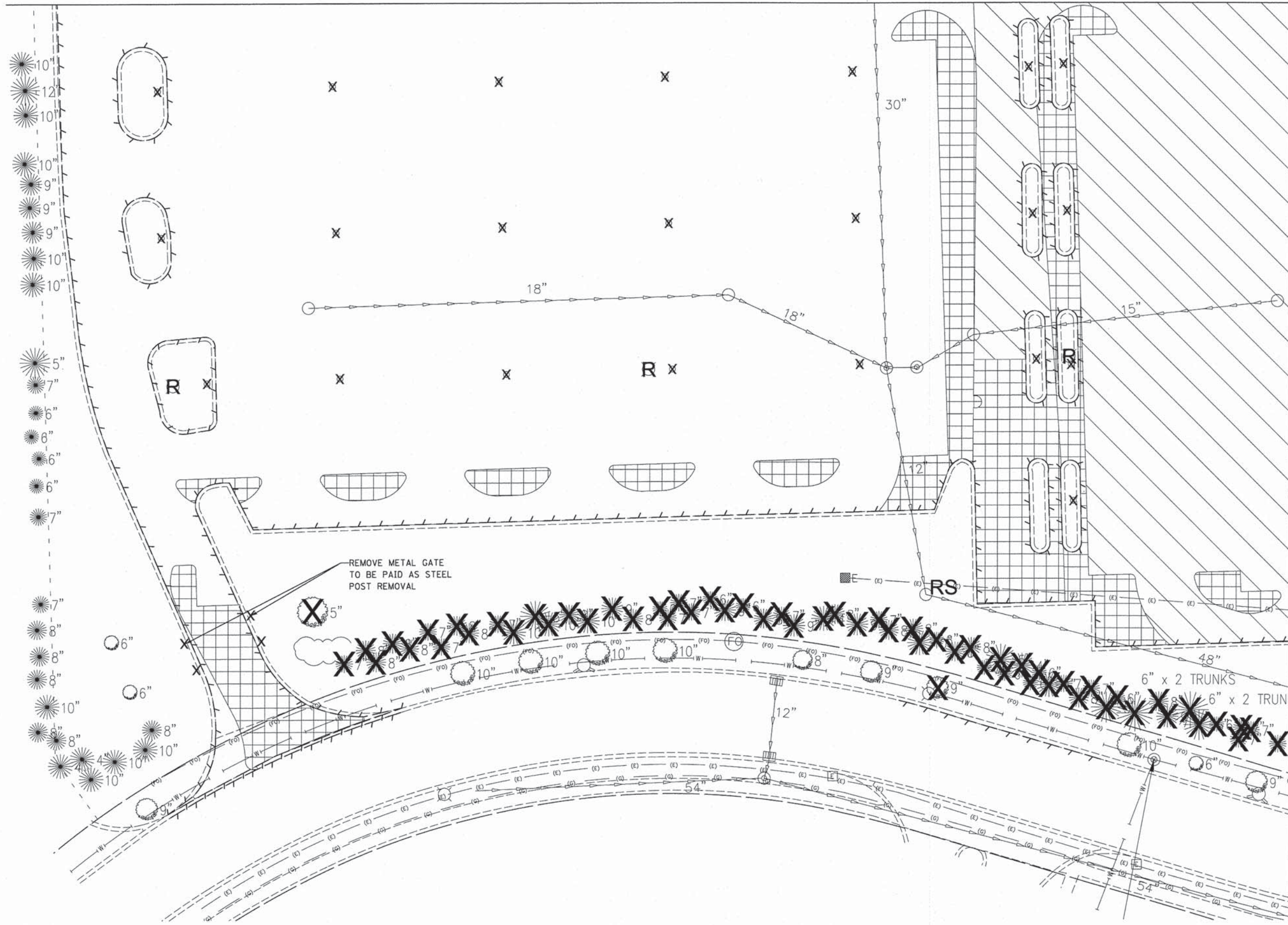
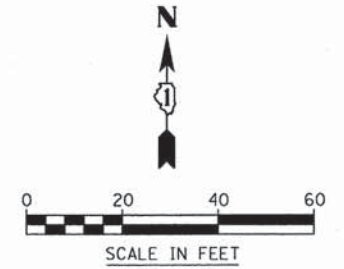
REMOVAL PLAN

SCALE: 1"=20' SHEET 2 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	10
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				

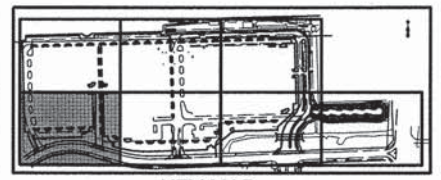


MATCH LINE SEE SHEET 9



MATCH LINE SEE SHEET 13

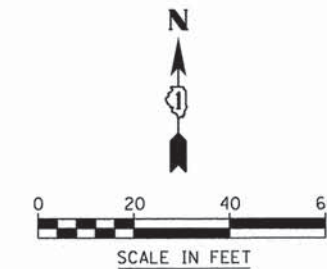
- LEGEND
- STORM SEWER PIPE REMOVAL
  - CURB & GUTTER REMOVAL
  - REMOVAL OF LIGHTING UNIT
  - STORM SEWER STRUCTURE REMOVAL
  - TREE REMOVAL
  - STEEL POST REMOVAL
  - HMA SURFACE REMOVAL  
AGGREGATE SUBBASE TO REMAIN
  - FULL DEPTH PAVEMENT REMOVAL
  - FULL DEPTH PAVEMENT REMOVAL FOR HEAVY DUTY PAVEMENT
  - SIDEWALK REMOVAL



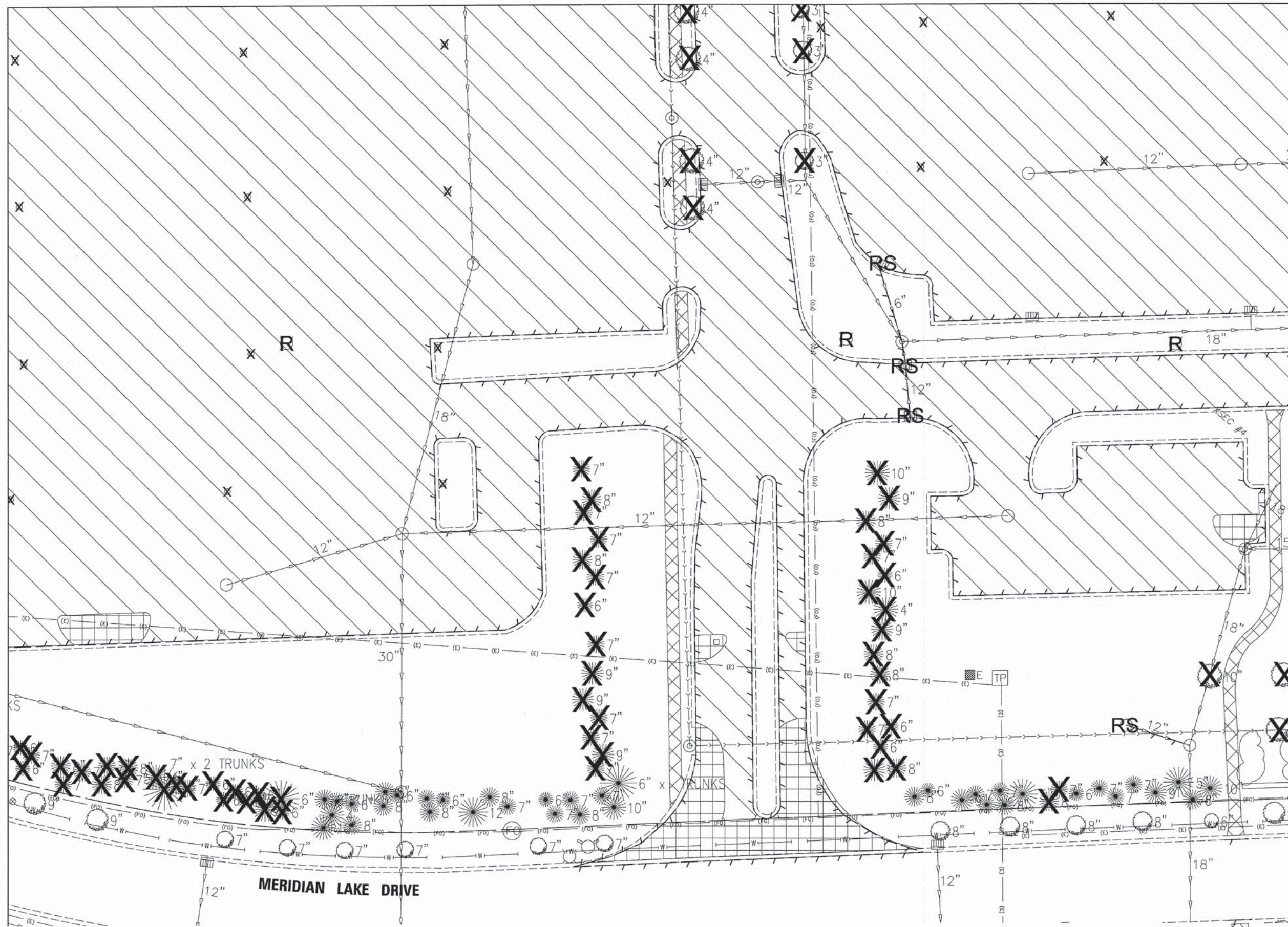
KEY MAP

	V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	USER NAME = #USER# PLOT SCALE = #SCALE# PLOT DATE = 3/3/2015	DESIGNED - JH DRAWN - OB CHECKED - MJR DATE - 03-04-15	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.	MUN 0084 SECTION 13-00300-00-PK COUNTY DUPAGE TOTAL SHEETS 101 SHEET NO. 12 CONTRACT NO. 61B33 ILLINOIS FED. AID PROJECT
	REMOVE METAL GATE TO BE PAID AS STEEL POST REMOVAL						
	6" x 2 TRUNKS 6" x 2 TRUNKS						

MATCH LINE SEE SHEET 10



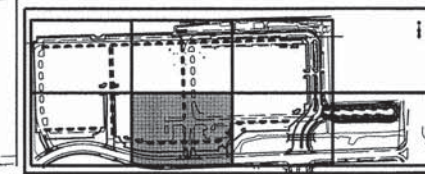
MATCH LINE SEE SHEET 12



MATCH LINE SEE SHEET 14

LEGEND

- STORM SEWER PIPE REMOVAL
- CURB & GUTTER REMOVAL
- REMOVAL OF LIGHTING UNIT
- STORM SEWER STRUCTURE REMOVAL
- TREE REMOVAL
- STEEL POST REMOVAL
- HMA SURFACE REMOVAL  
AGGREGATE SUBBASE TO REMAIN
- FULL DEPTH PAVEMENT REMOVAL
- FULL DEPTH PAVEMENT REMOVAL FOR HEAVY DUTY PAVEMENT
- SIDEWALK REMOVAL



KEY MAP



V3 Companies  
7325 Jones Avenue  
Woodridge, IL 60517  
830.724.9200 phone  
830.724.9202 fax  
www.v3co.com

USER NAME = #USER#  
DESIGNED - JH  
DRAWN - OB  
CHECKED - MJR  
DATE - 03-04-15

REVISED -  
REVISED -  
REVISED -  
REVISED -

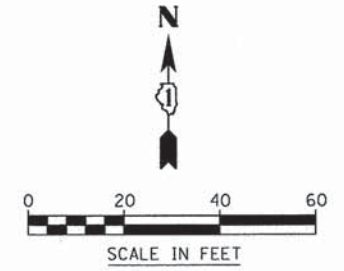
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

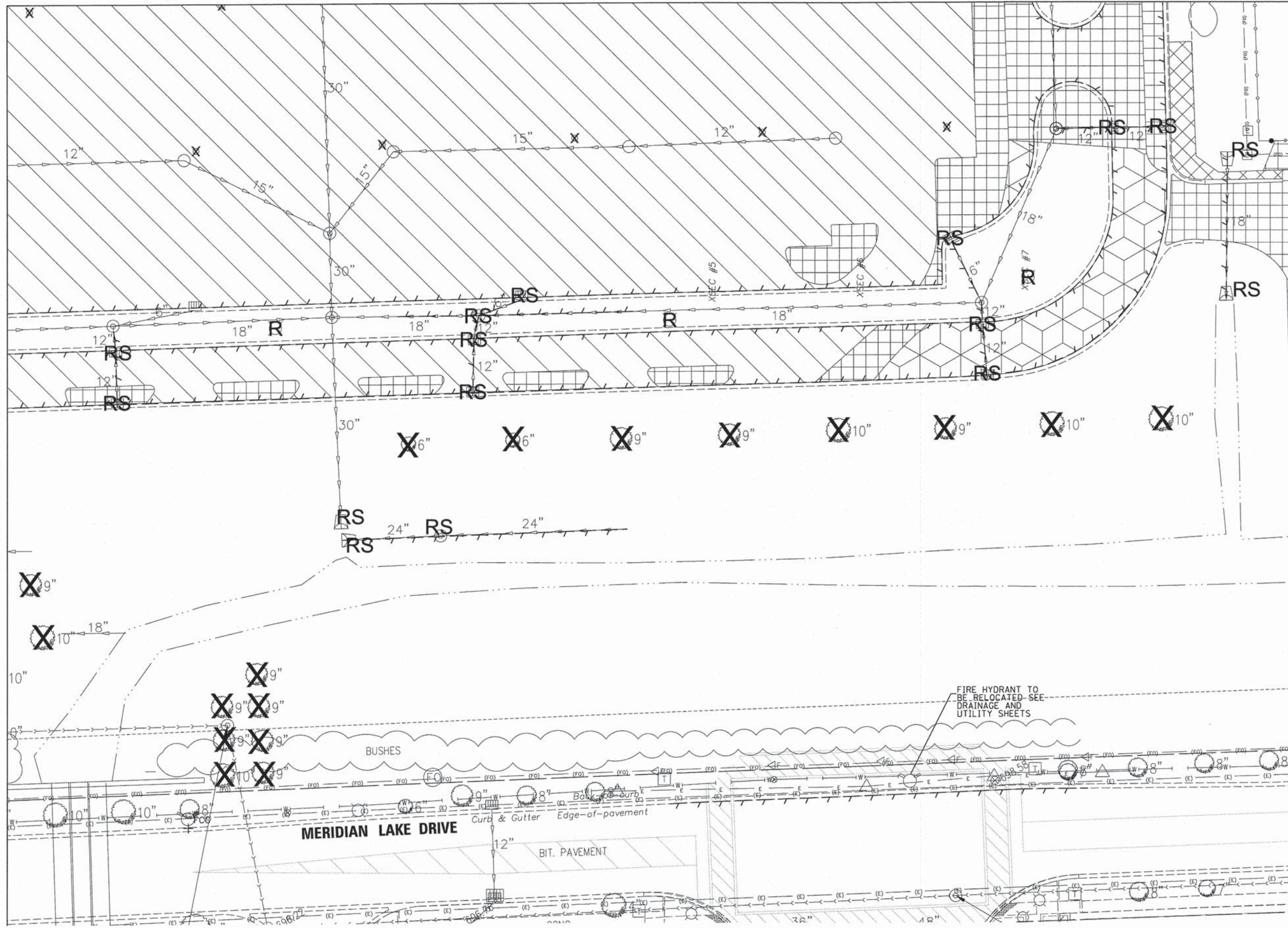
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	13
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 11

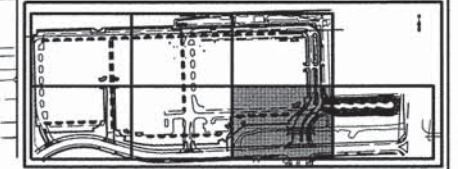


MATCH LINE SEE SHEET 13

MATCH LINE SEE SHEET 15



- LEGEND**
- STORM SEWER PIPE REMOVAL
  - CURB & GUTTER REMOVAL
  - REMOVAL OF LIGHTING UNIT
  - STORM SEWER STRUCTURE REMOVAL
  - TREE REMOVAL
  - STEEL POST REMOVAL
  - HMA SURFACE REMOVAL  
AGGREGATE SUBBASE TO REMAIN
  - FULL DEPTH PAVEMENT REMOVAL
  - FULL DEPTH PAVEMENT REMOVAL FOR HEAVY DUTY PAVEMENT
  - SIDEWALK REMOVAL



KEY MAP



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

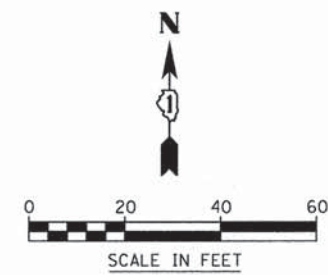
USER NAME = #USER#  
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DRAWN - OB  
CHECKED - MJR  
DATE - 03-04-15

REVISED -  
REVISED -  
REVISED -  
REVISED -

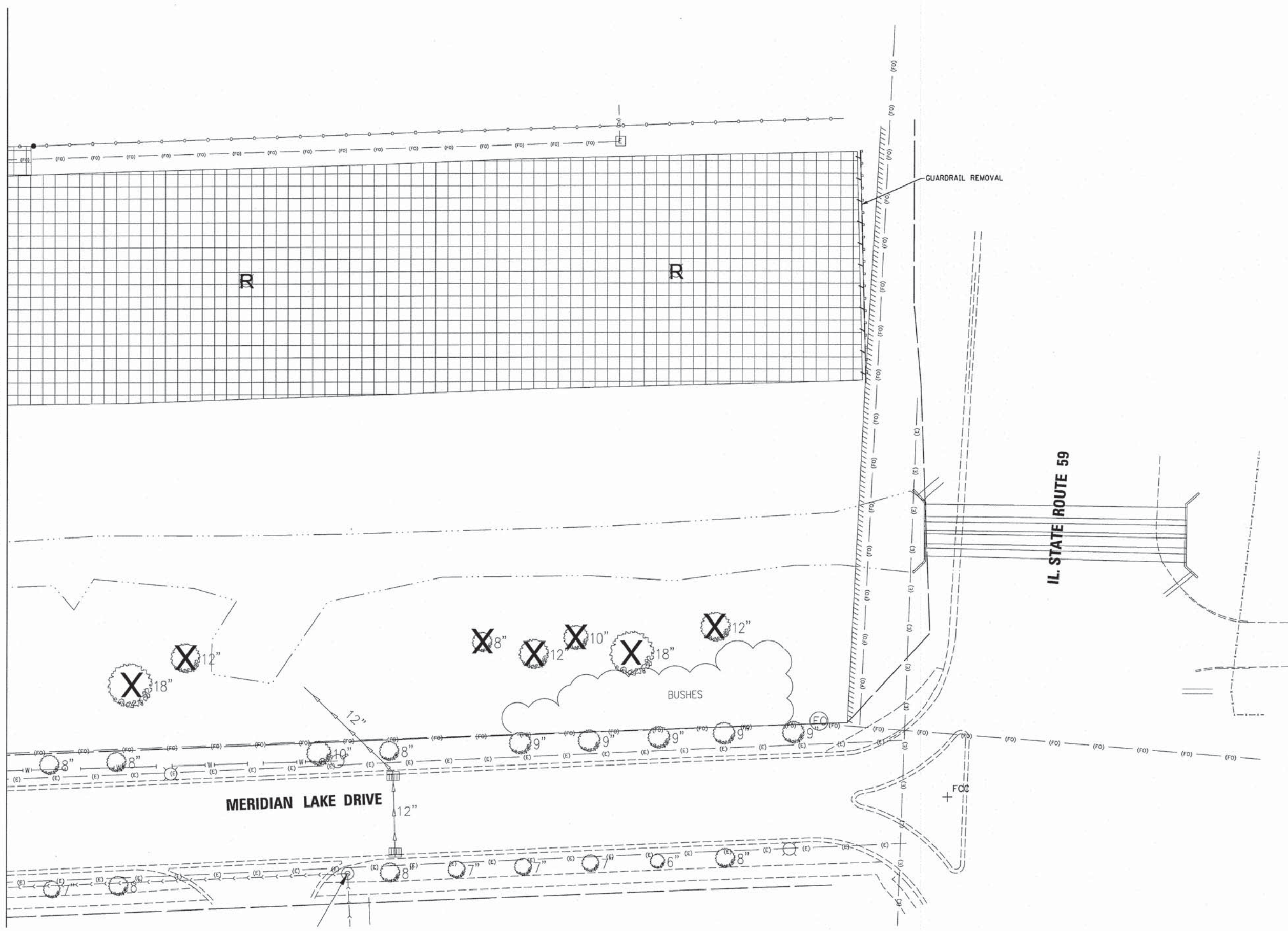
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION


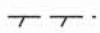





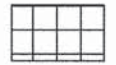


REMOVAL PLAN  
SCALE: 1"=20'  
SHEET 6 OF 7 SHEETS STA. TO STA.

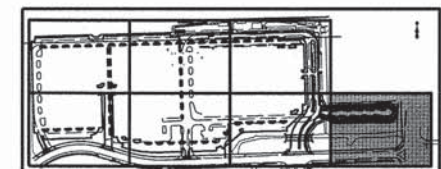
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	14
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



MATCH LINE SEE SHEET 14



- LEGEND**
-  STORM SEWER PIPE REMOVAL
  -  CURB & GUTTER REMOVAL
  -  REMOVAL OF LIGHTING UNITS
  -  STORM SEWER STRUCTURE REMOVAL
  -  TREE REMOVAL
  -  STEEL POST REMOVAL
  -  HMA SURFACE REMOVAL  
AGGREGATE SUBBASE TO REMAIN
  -  FULL DEPTH PAVEMENT REMOVAL
  -  FULL DEPTH PAVEMENT REMOVAL FOR HEAVY DUTY PAVEMENT
  -  SIDEWALK REMOVAL



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7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - OB	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -




**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**REMOVAL PLAN**





SCALE: 1"=20' SHEET 7 OF 7 SHEETS STA. TO STA.

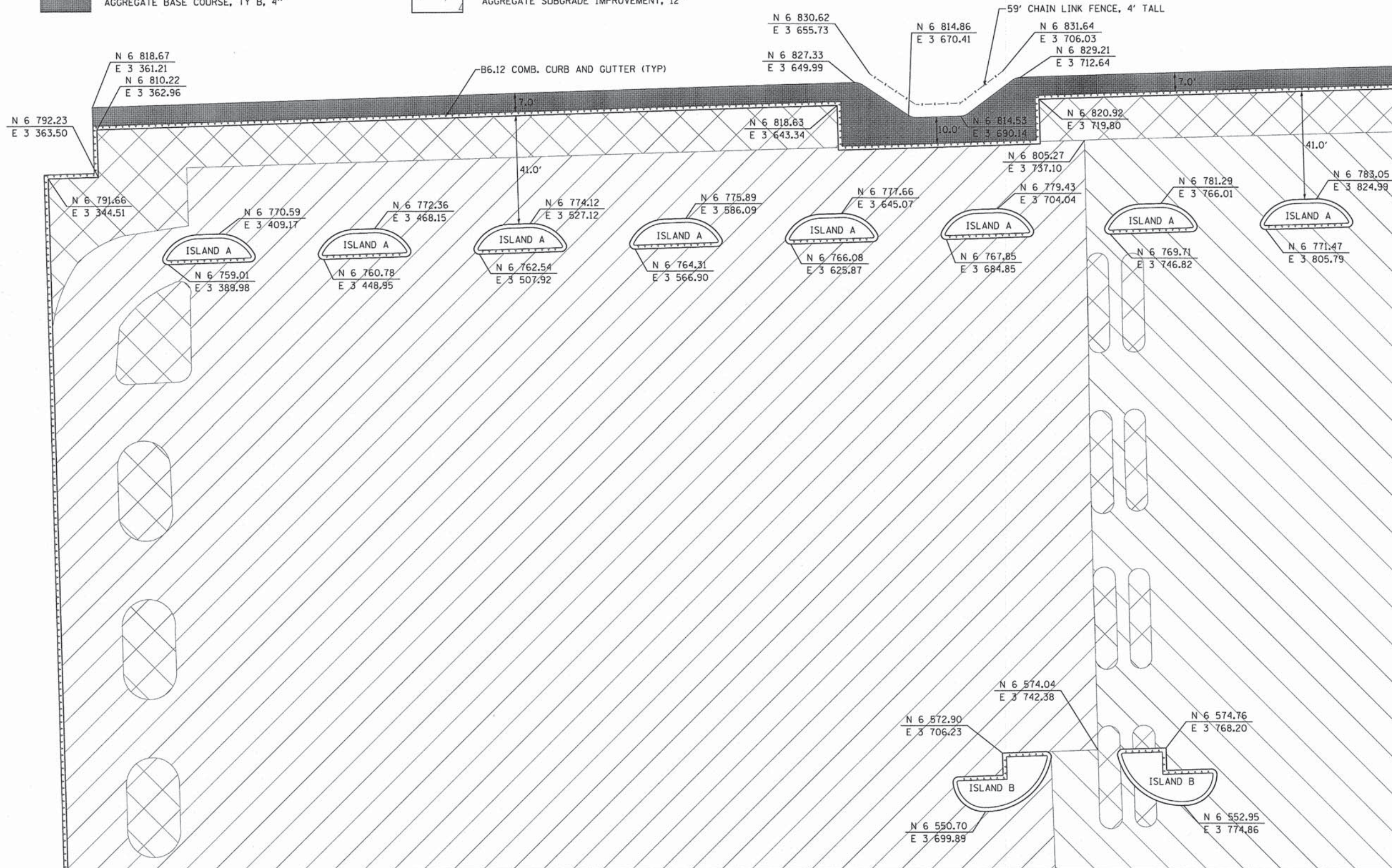
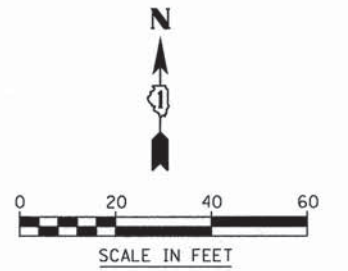
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	15
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" EXISTING ASPHALT TO REMAIN
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD AGGREGATE BASE COURSE TYPE B IF NEEDED
-  PORTLAND CEMENT CONCRETE SIDEWALK, 5" AGGREGATE BASE COURSE, TY B, 4"

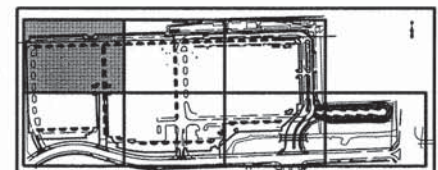
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" AGGREGATE SUBGRADE IMPROVEMENT, 12"
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" AGGREGATE SUBGRADE IMPROVEMENT, 12"
-  PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8" AGGREGATE SUBGRADE IMPROVEMENT, 12"

-  CURB CUT WITH RIP-RAP EROSION CONTROL SEE CURB CUT DETAIL FOR MORE INFORMATION
-  TRANSVERSE EXPANSION JOINT
-  LONGITUDINAL CONSTRUCTION JOINT
-  REVERSE PITCH CURB



MATCH LINE SEE SHEET 17

MATCH LINE SEE SHEET 19



USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - HS	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LAYOUT PLAN

SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.







MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			DUPAGE	CONTRACT NO. 61B33






ILLINOIS FED. AID PROJECT

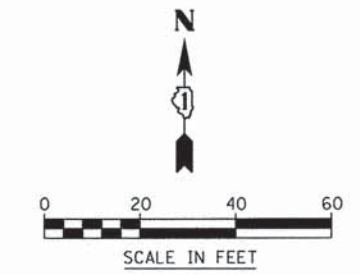
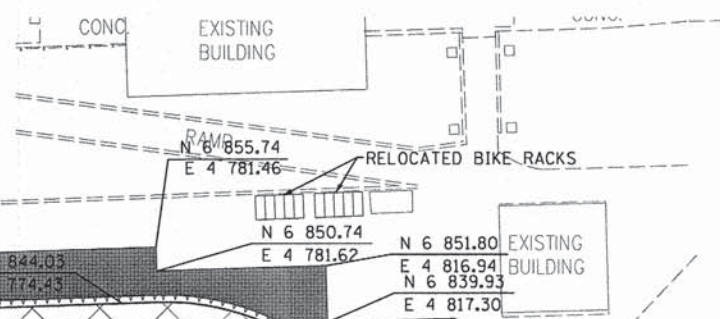




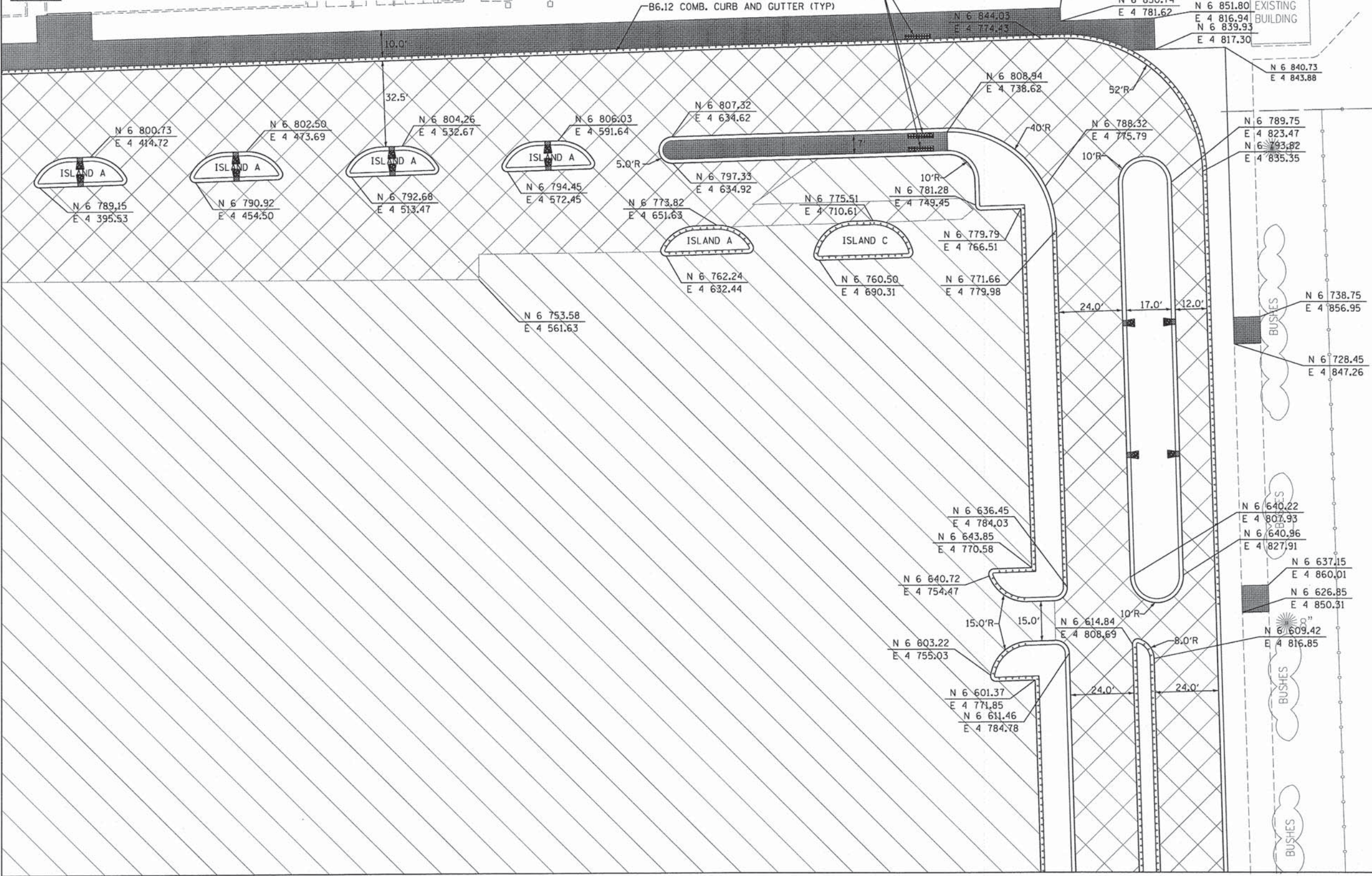
LEGEND

-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" EXISTING ASPHALT TO REMAIN
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD AGGREGATE BASE COURSE TYPE B IF NEEDED
-  PORTLAND CEMENT CONCRETE SIDEWALK, 5" AGGREGATE BASE COURSE, TY B, 4"
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" AGGREGATE SUBGRADE IMPROVEMENT, 12"
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" AGGREGATE SUBGRADE IMPROVEMENT, 12"
-  PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8" AGGREGATE SUBGRADE IMPROVEMENT, 12"

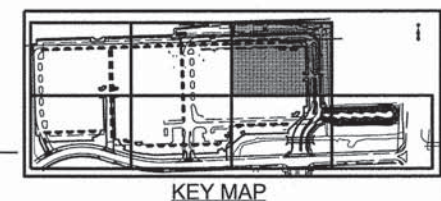
-  CURB CUT WITH RIP-RAP EROSION CONTROL SEE CURB CUT DETAIL FOR MORE INFORMATION
-  TRANSVERSE EXPANSION JOINT
-  LONGITUDINAL CONSTRUCTION JOINT
-  REVERSE PITCH CURB
-  DETECTABLE WARNING STRIP WITH 6" CURB TRANSITIONS (TYP)



MATCH LINE SEE SHEET 17



MATCH LINE SEE SHEET 21



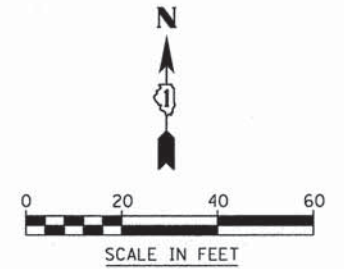
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PLOT SCALE = #SCALE#	DRAWN - HS	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

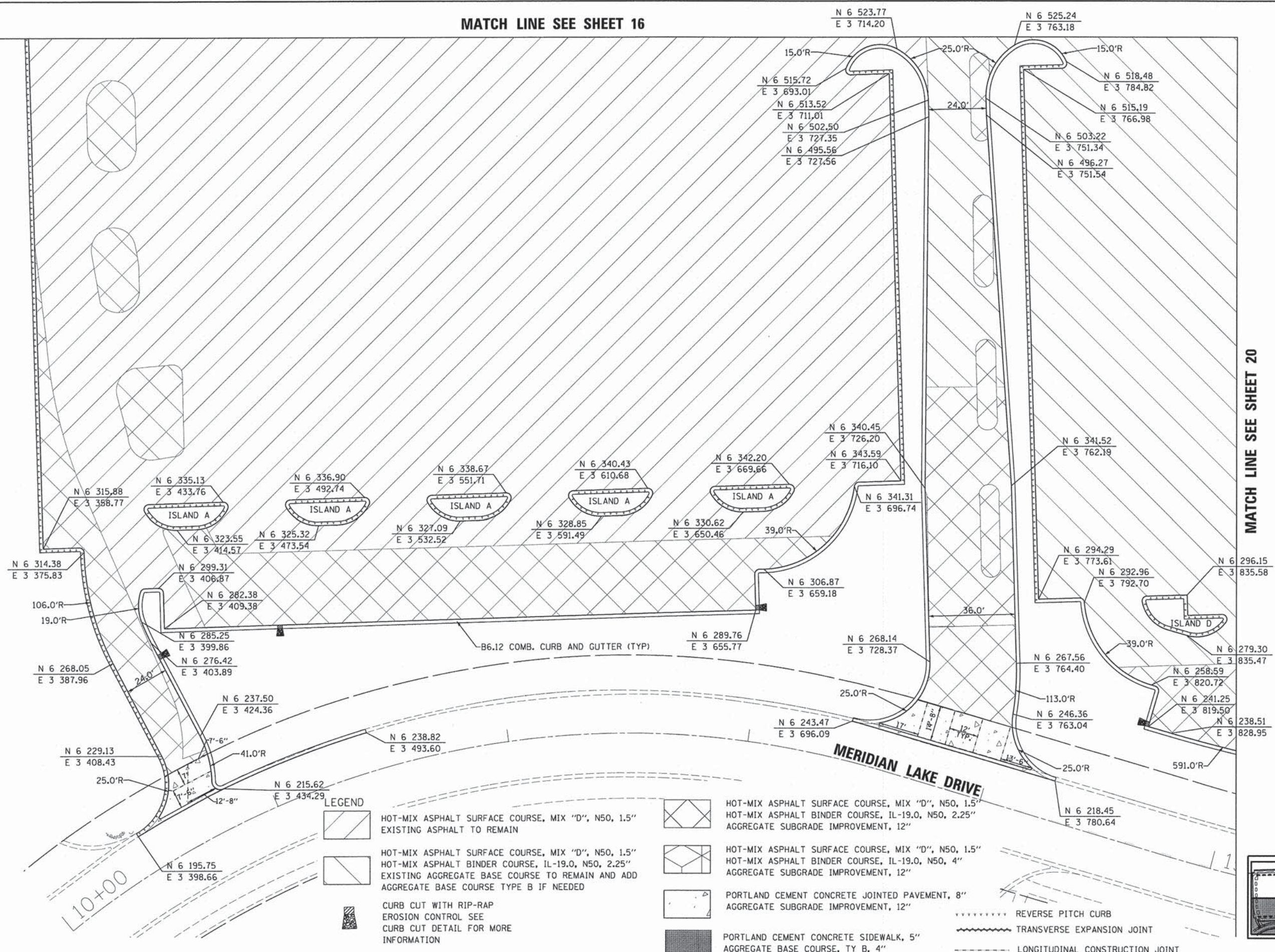
<b>LAYOUT PLAN</b>	
SCALE: 1"=20'	SHEET 3 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	18
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 16

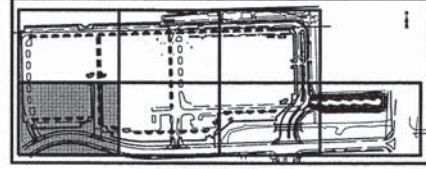


MATCH LINE SEE SHEET 20



**LEGEND**

- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" EXISTING ASPHALT TO REMAIN
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- CURB CUT WITH RIP-RAP EROSION CONTROL SEE CURB CUT DETAIL FOR MORE INFORMATION
- PORTLAND CEMENT CONCRETE SIDEWALK, 5" AGGREGATE BASE COURSE, TY B, 4"
- REVERSE PITCH CURB
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL CONSTRUCTION JOINT



KEY MAP



V3 Companies  
7325 Jones Avenue  
Woodridge, IL 60517  
830.724.9200 phone  
830.724.9202 fax  
www.v3co.com

USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - HS	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

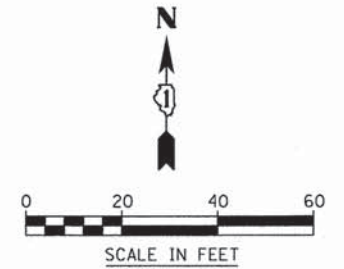
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LAYOUT PLAN

SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	19
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

MATCH LINE SEE SHEET 17

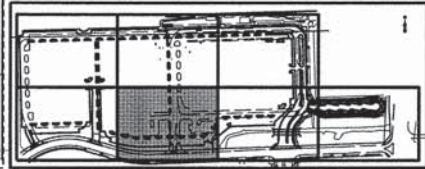
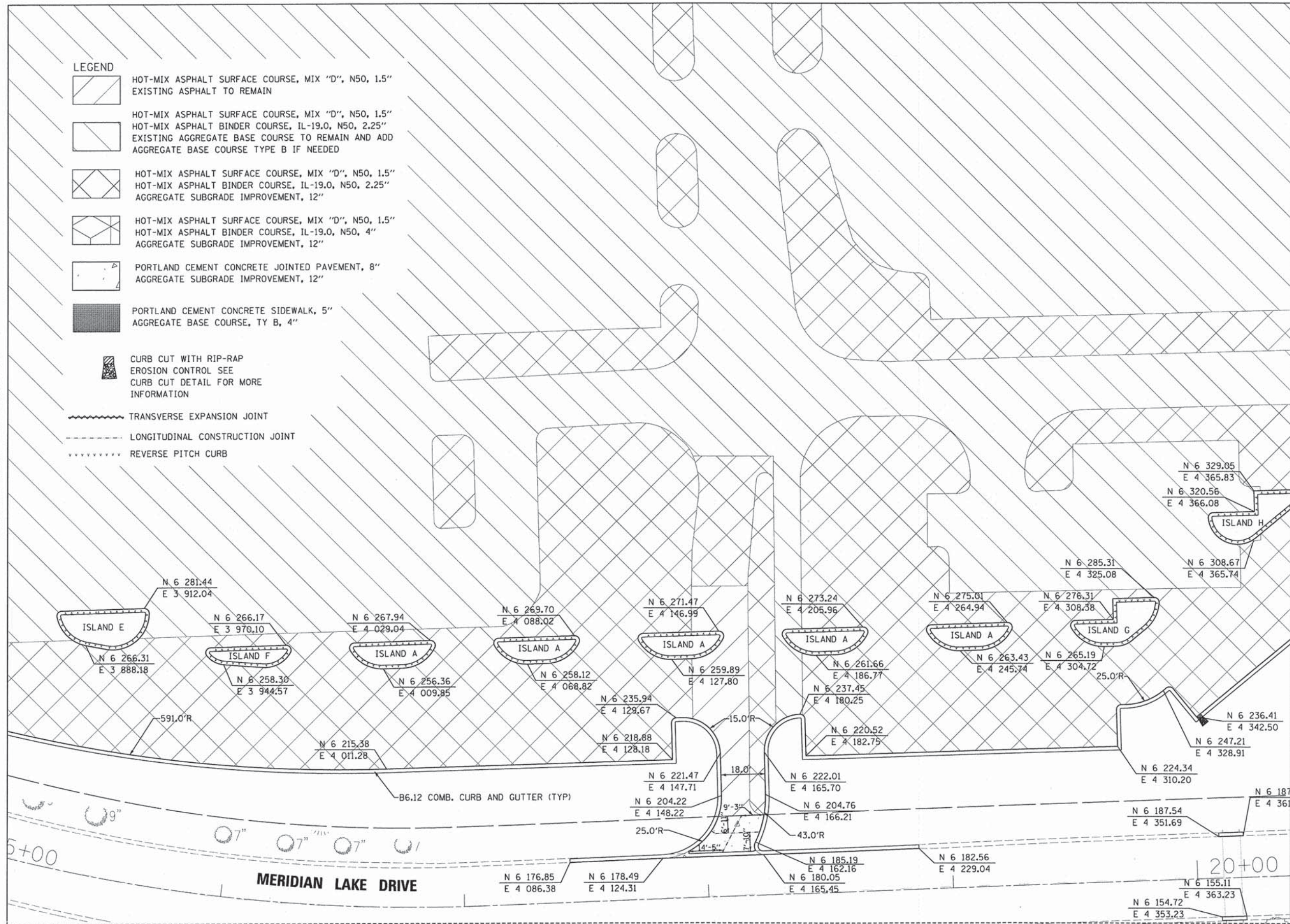


LEGEND

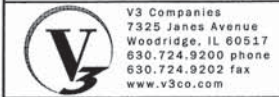
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"  
EXISTING ASPHALT TO REMAIN
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"  
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"  
EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD  
AGGREGATE BASE COURSE TYPE B IF NEEDED
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"  
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"  
AGGREGATE SUBGRADE IMPROVEMENT, 12"
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5"  
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"  
AGGREGATE SUBGRADE IMPROVEMENT, 12"
- PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8"  
AGGREGATE SUBGRADE IMPROVEMENT, 12"
- PORTLAND CEMENT CONCRETE SIDEWALK, 5"  
AGGREGATE BASE COURSE, TY B, 4"
- CURB CUT WITH RIP-RAP  
EROSION CONTROL SEE  
CURB CUT DETAIL FOR MORE  
INFORMATION
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL CONSTRUCTION JOINT
- REVERSE PITCH CURB

MATCH LINE SEE SHEET 19

MATCH LINE SEE SHEET 21



KEY MAP



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - HS	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

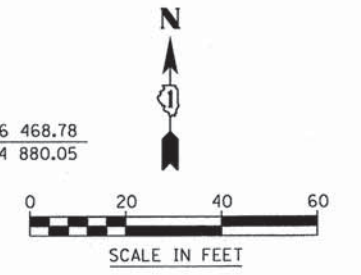
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LAYOUT PLAN**

SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

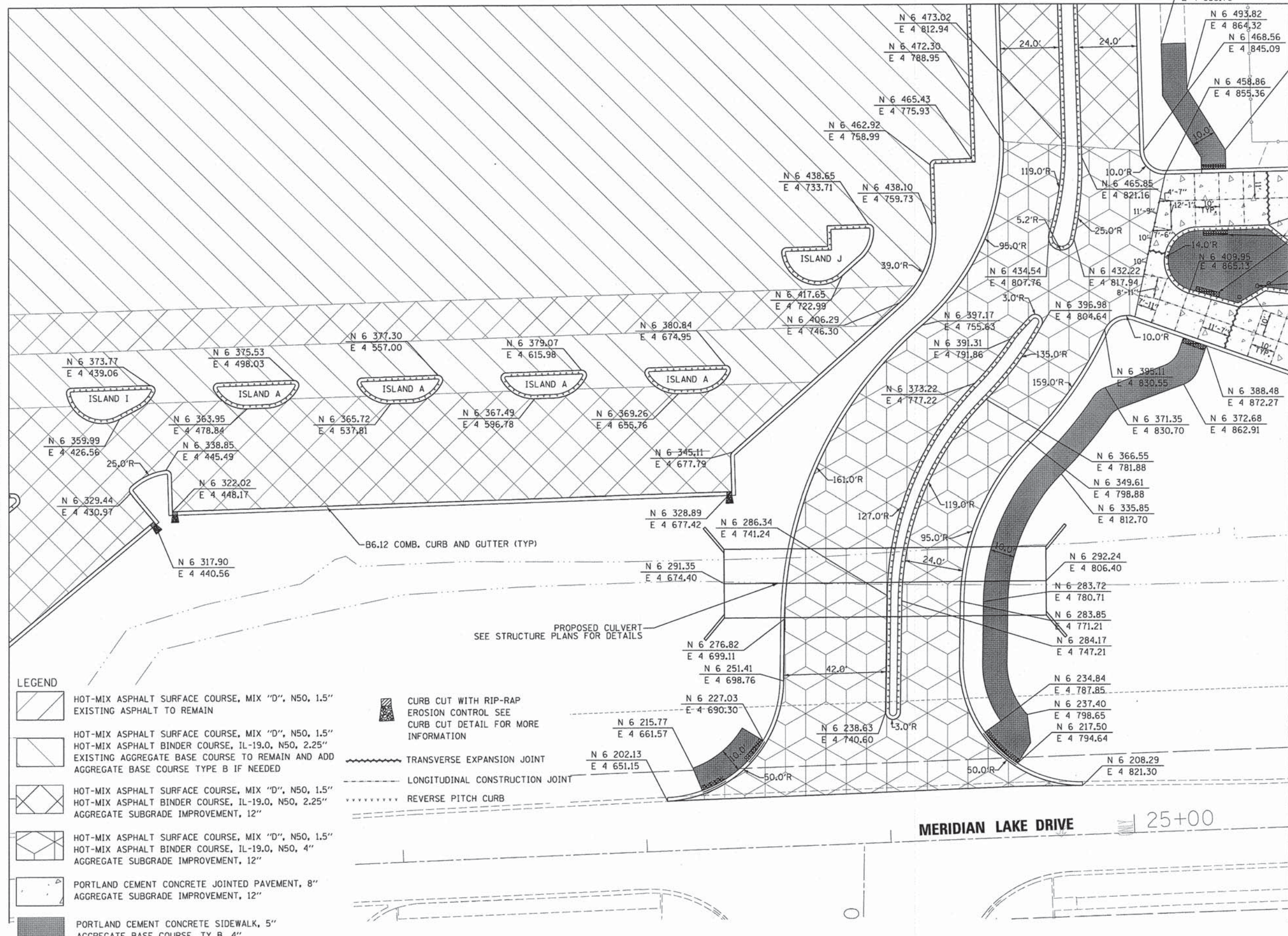
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	20
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 18



MATCH LINE SEE SHEET 20

MATCH LINE SEE SHEET 22



DETECTABLE WARNING STRIP WITH 6' CURB TRANSITION (TYP)  
 BOLLARD (TYP) SEE NEXT LAYOUT SHEET FOR INSTALL DETAIL

**LEGEND**

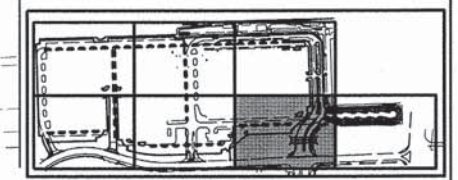
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" EXISTING ASPHALT TO REMAIN
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" EXISTING AGGREGATE BASE COURSE TO REMAIN AND ADD AGGREGATE BASE COURSE TYPE B IF NEEDED
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- PORTLAND CEMENT CONCRETE JOINTED PAVEMENT, 8" AGGREGATE SUBGRADE IMPROVEMENT, 12"
- PORTLAND CEMENT CONCRETE SIDEWALK, 5" AGGREGATE BASE COURSE, TY B, 4"
- CURB CUT WITH RIP-RAP EROSION CONTROL SEE CURB CUT DETAIL FOR MORE INFORMATION
- TRANSVERSE EXPANSION JOINT
- LONGITUDINAL CONSTRUCTION JOINT
- REVERSE PITCH CURB

PROPOSED CULVERT  
 SEE STRUCTURE PLANS FOR DETAILS

B6.12 COMB. CURB AND GUTTER (TYP)

**MERIDIAN LAKE DRIVE**

25+00



KEY MAP



USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - HS	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

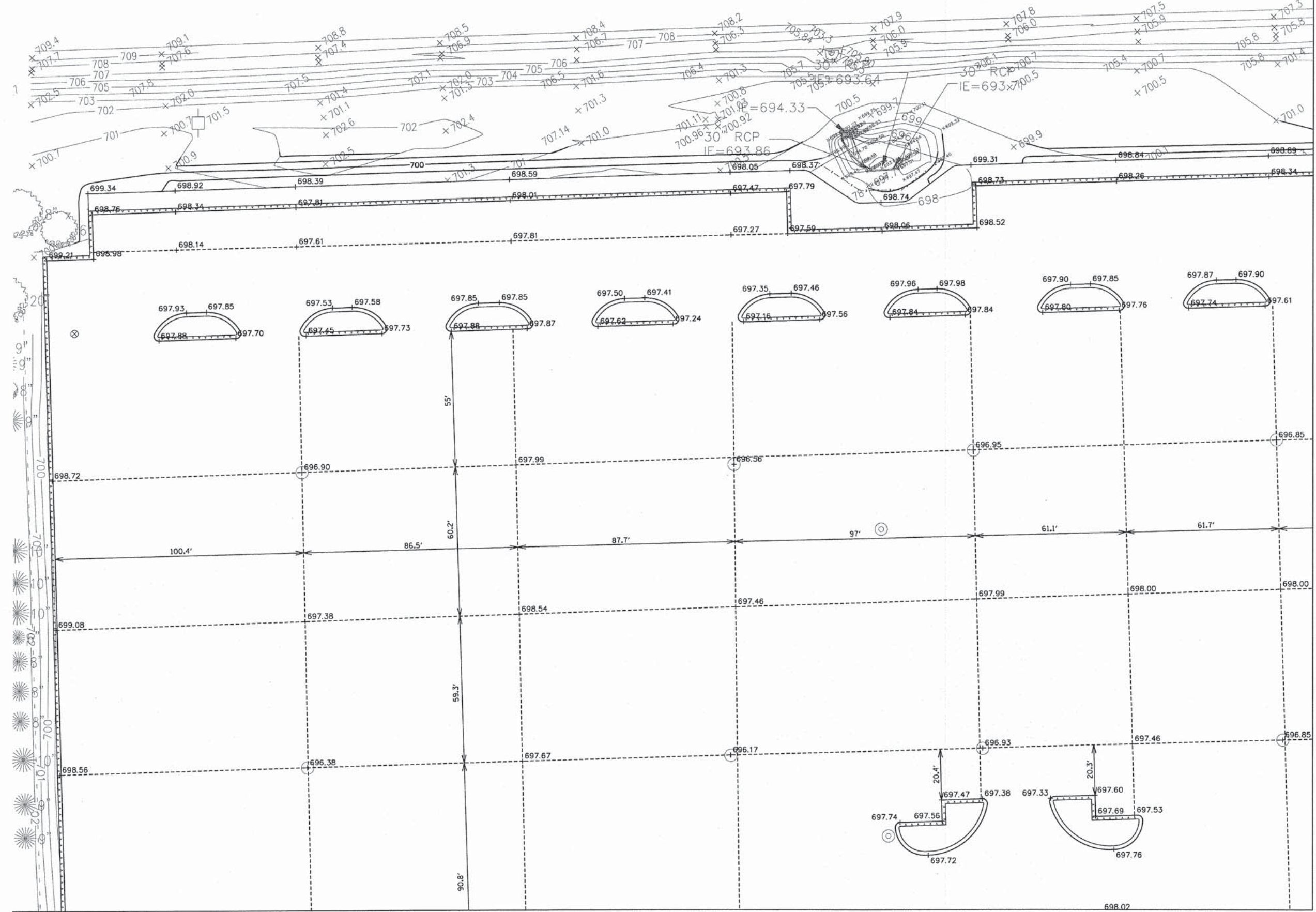
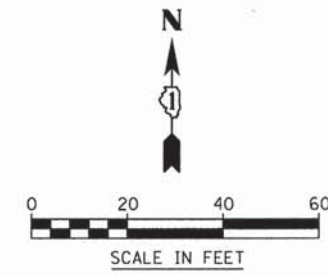
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LAYOUT PLAN**

SCALE: 1"=20' SHEET 6 OF 7 SHEETS STA. TO STA.

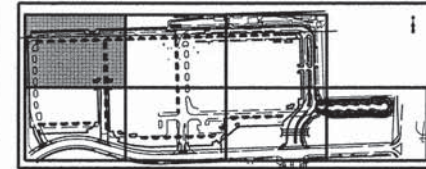
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	21
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	





MATCH LINE SEE SHEET 24

MATCH LINE SEE SHEET 26



KEY MAP



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 PLOT SCALE = #SCALE#  
 PLOT DATE = 3/3/2015

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 DRAWN - HS  
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 DATE - 03-04-15

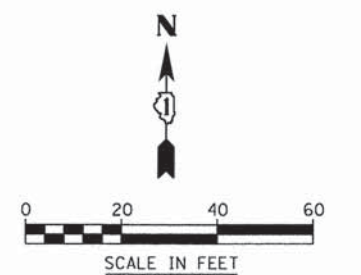
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.

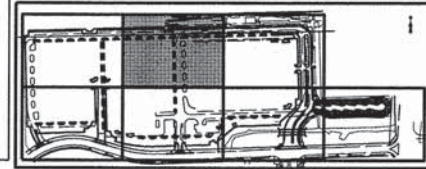
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	23
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



MATCH LINE SEE SHEET 23

MATCH LINE SEE SHEET 25

MATCH LINE SEE SHEET 27



KEY MAP



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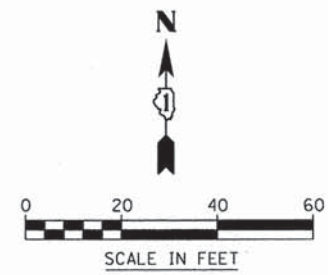
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GRADING PLAN

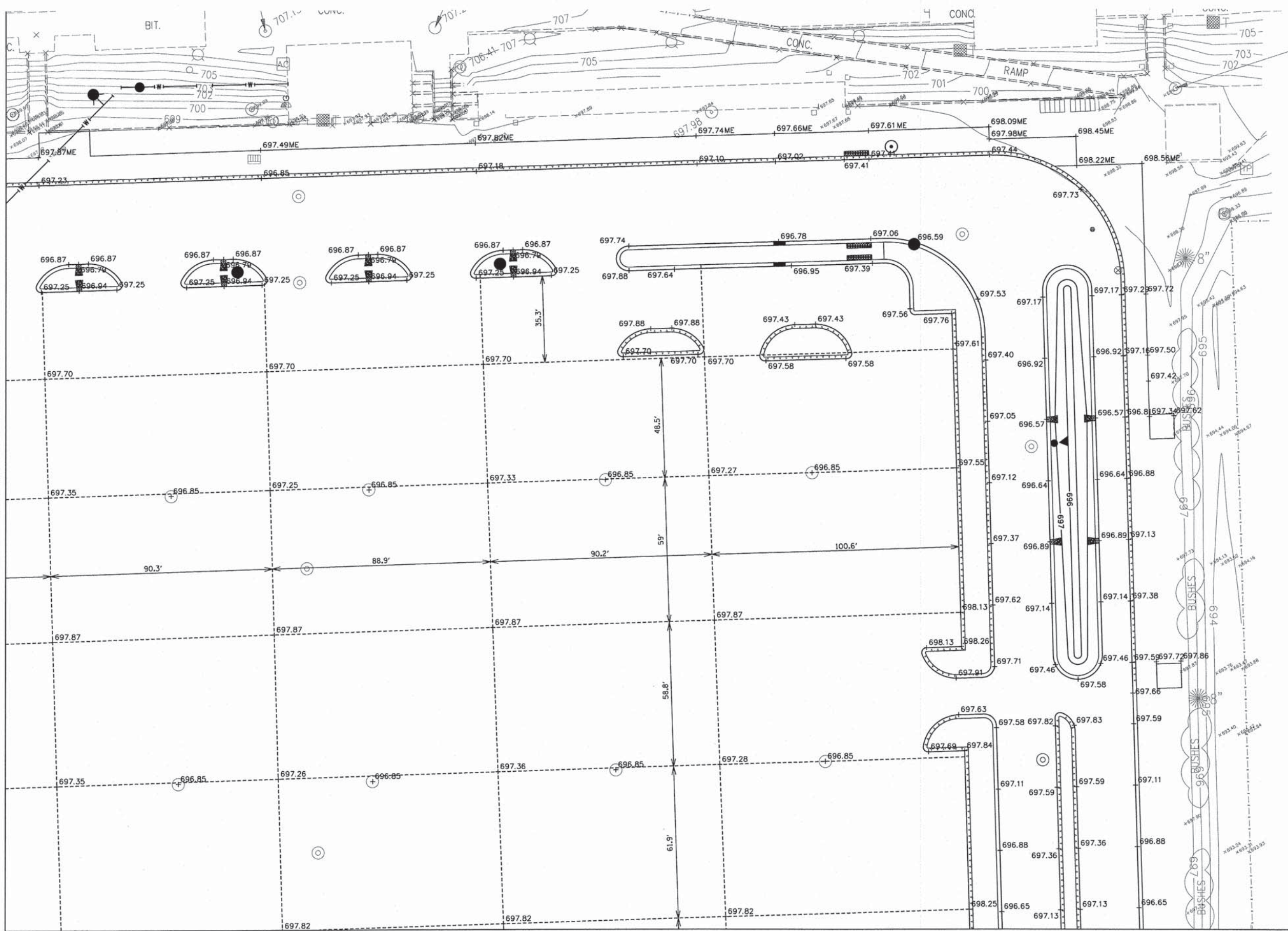
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MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

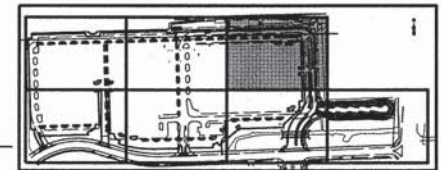




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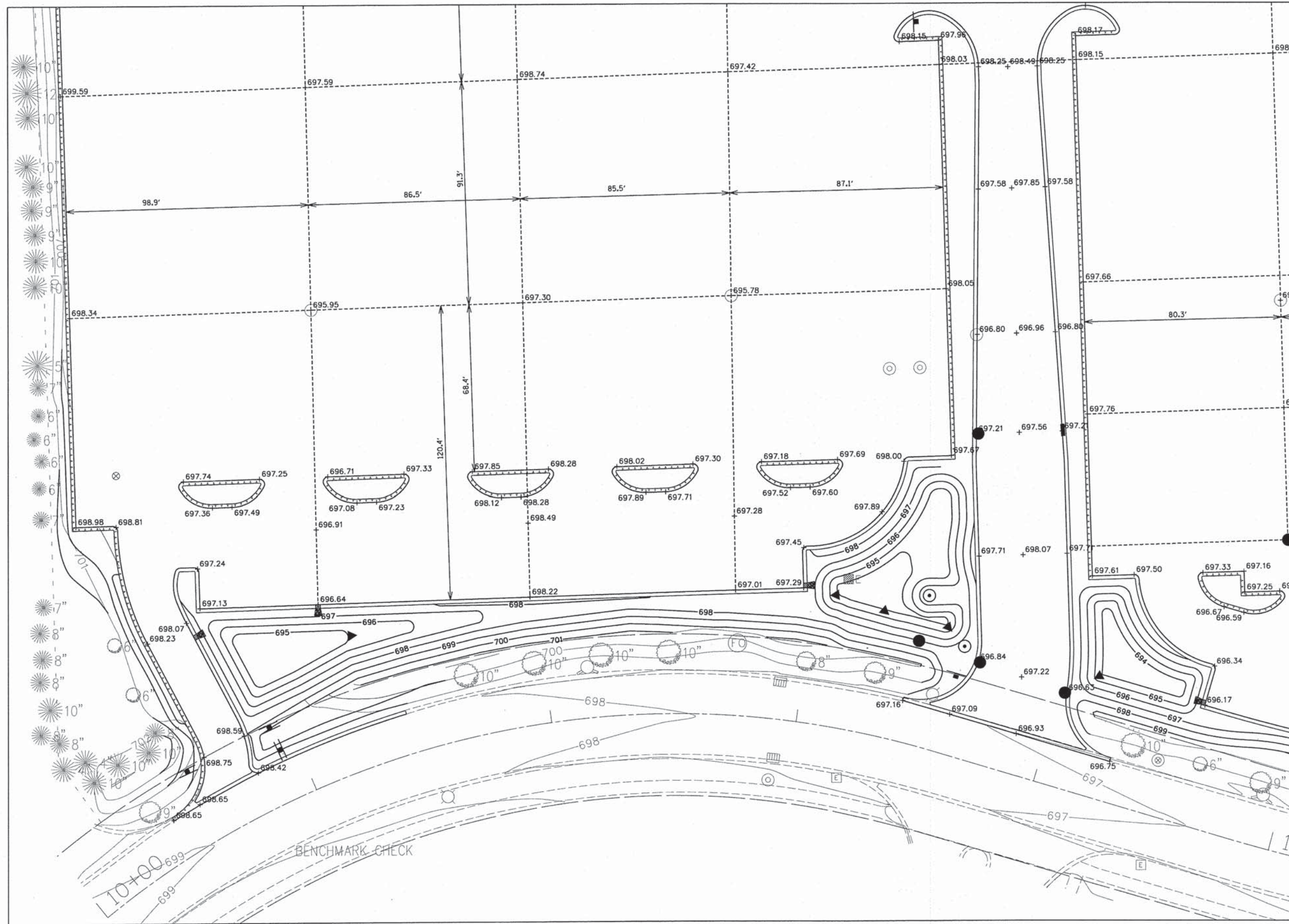
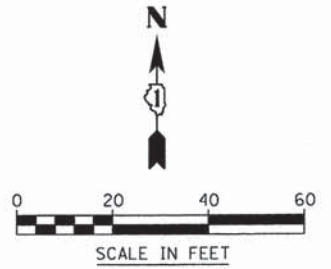
MATCH LINE SEE SHEET 28



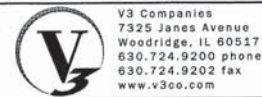
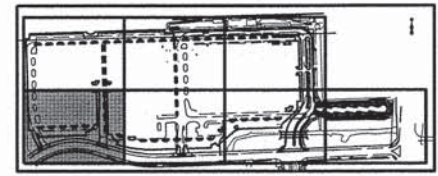
KEY MAP

	V3 Companies 7325 Janes Avenue Woodridge, IL 60517 830.724.9200 phone 830.724.9202 fax www.v3co.com	USER NAME = #USER# DESIGNED - JH DRAWN - HS CHECKED - MJR DATE - 03-04-15	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>GRADING PLAN</b>		MUN 0084 SECTION 13-00300-00-PK COUNTY DU PAGE TOTAL SHEETS 101 SHEET NO. 25
	PLOT SCALE = #SCALE# PLOT DATE = 3/3/2015	DATE - 03-04-15			SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT		

MATCH LINE SEE SHEET 23



MATCH LINE SEE SHEET 27



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CHECKED - MJR  
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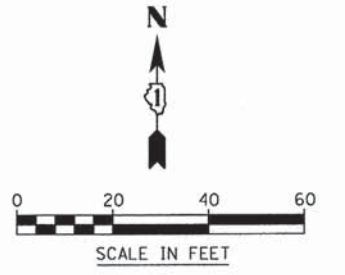
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.

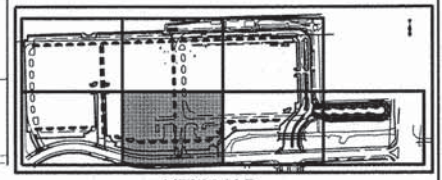
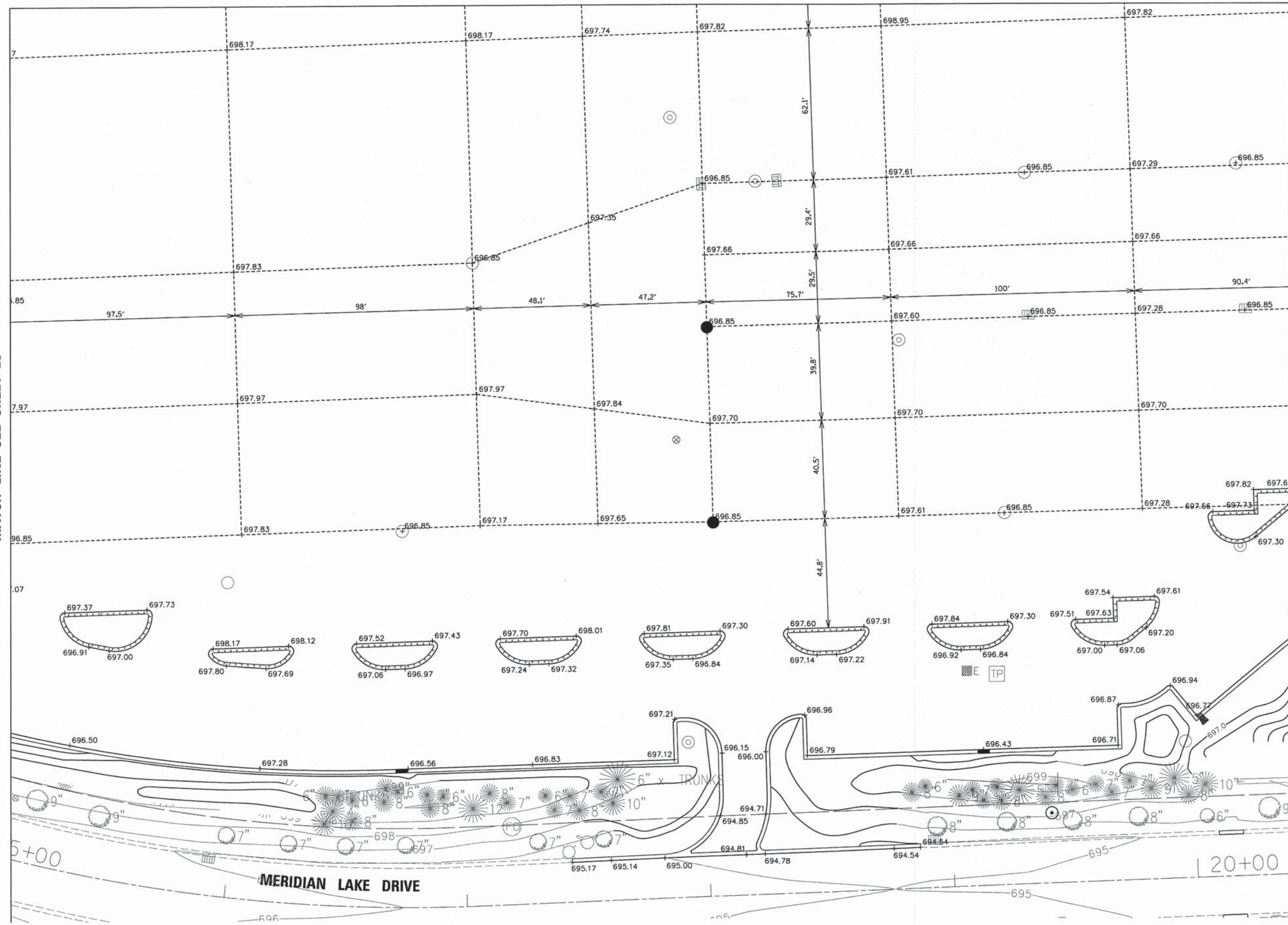
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	26
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 24



MATCH LINE SEE SHEET 25

MATCH LINE SEE SHEET 28



KEY MAP



USER NAME = #USER#  
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 PLOT DATE = 3/3/2015

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 DRAWN - HS  
 CHECKED - MJR  
 DATE - 03-04-15

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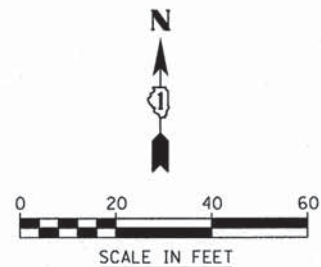
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

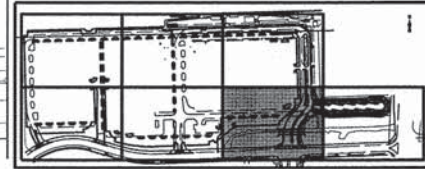
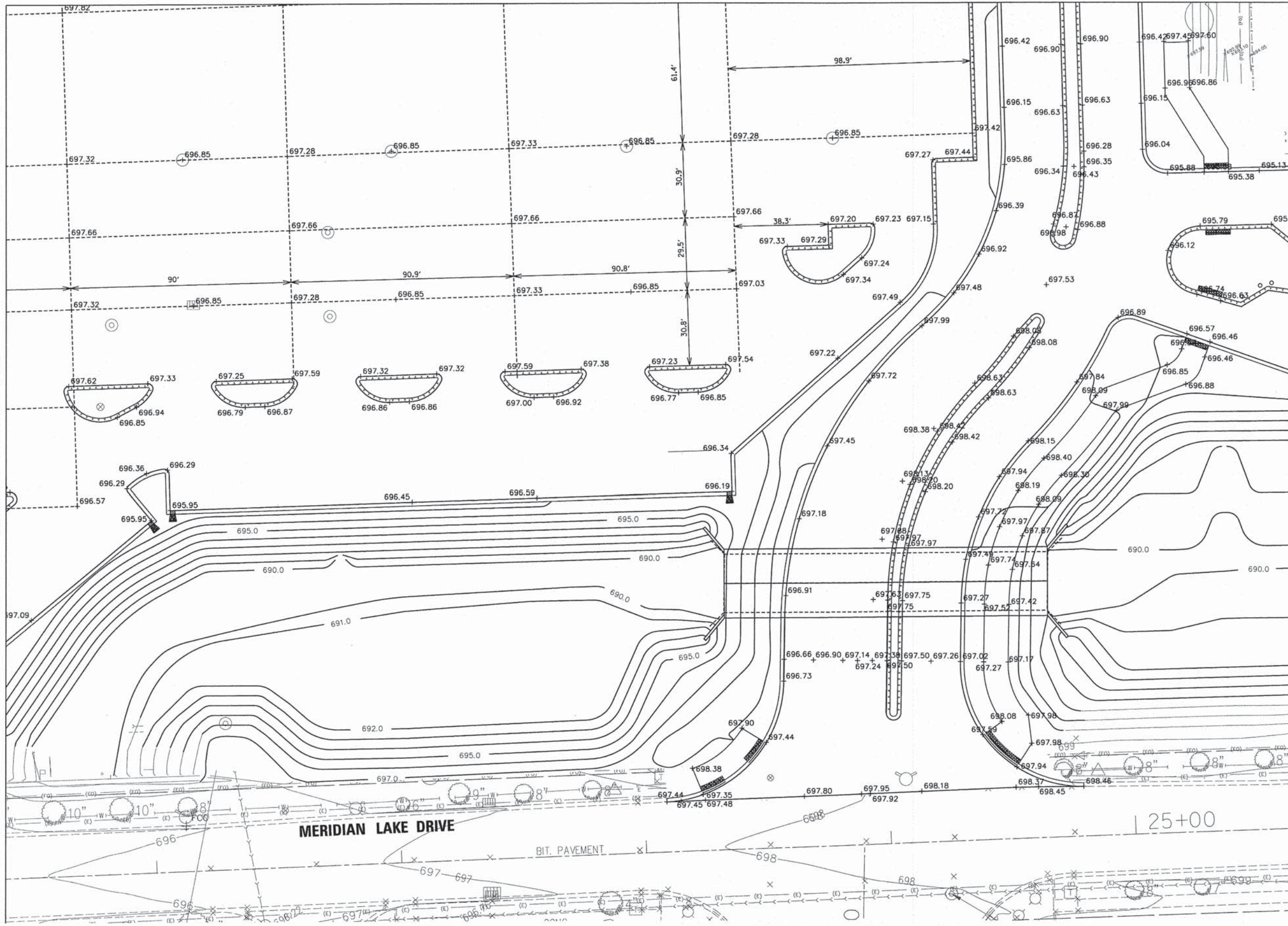
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0084	13-00300-00-PK		101	27
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 25

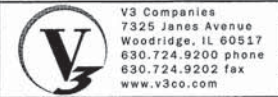


MATCH LINE SEE SHEET 27

MATCH LINE SEE SHEET 29



KEY MAP



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DRAWN - HS  
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DATE - 03-04-15

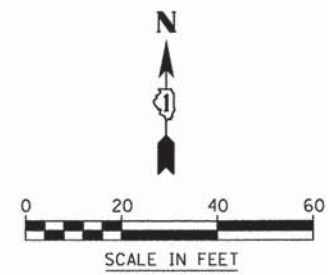
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

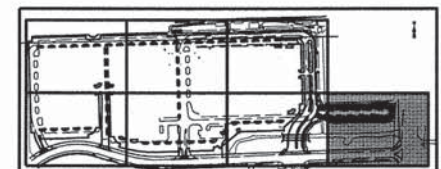
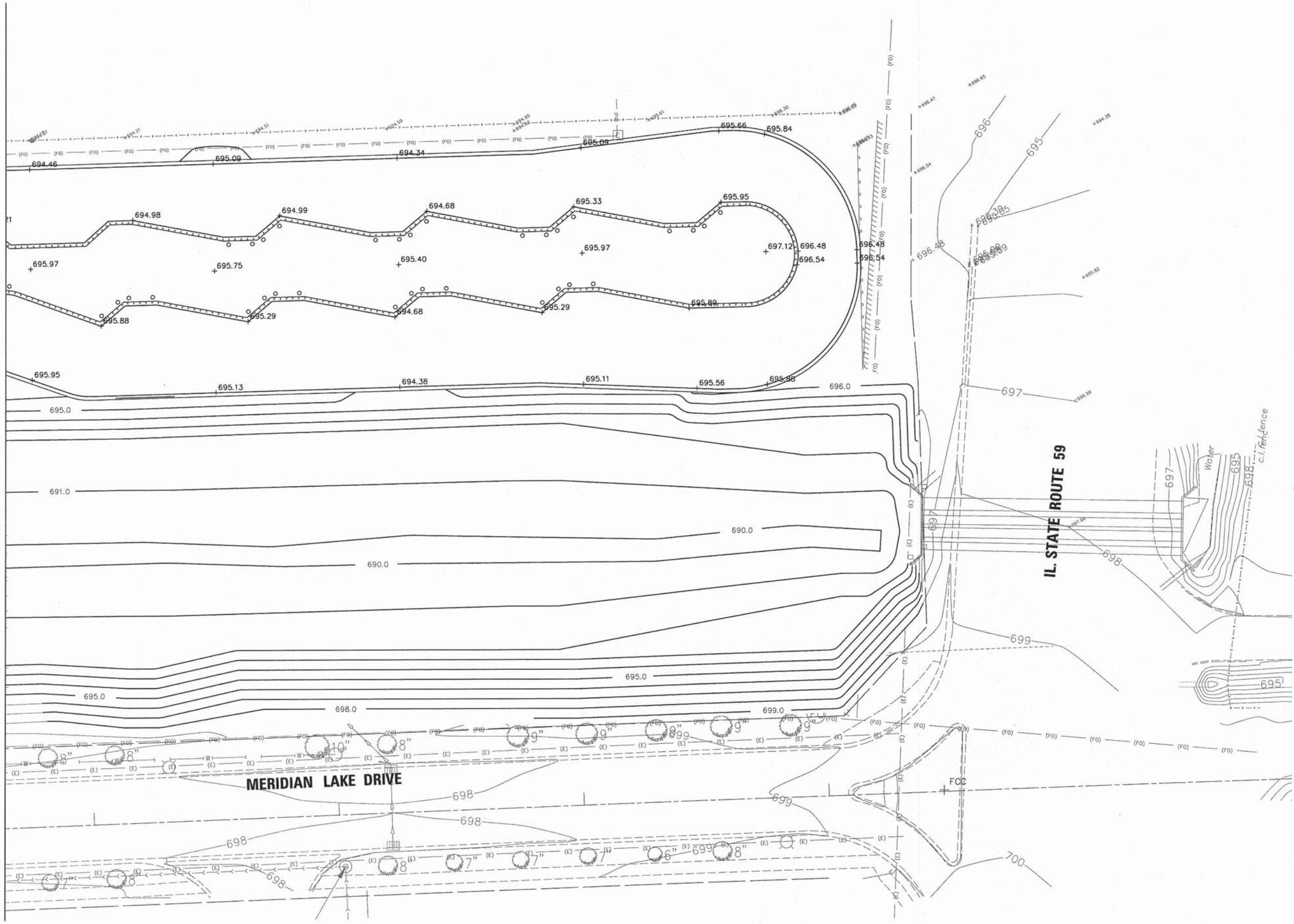
GRADING PLAN

SCALE: 1"=20' SHEET 6 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	28
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				



MATCH LINE SEE SHEET 28



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	DATE - 03-04-15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN**

SCALE: 1"=20'    SHEET 7 OF 7 SHEETS    STA.    TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	29
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

## MAINTENANCE OF TRAFFIC GENERAL NOTES

1. TYPE I OR II BARRICADES AND VERTICAL PANELS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AND SHALL BE PLACED AT A MAXIMUM OF 50 FOOT INTERVALS ALONG THE PROPOSED WORK ZONE, 25 FOOT INTERVALS IN TAPER SECTIONS, AND 10 FOOT INTERVALS AROUND RADII AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BARRICADES WITH LEG EXTENSIONS SHALL BE USED WHERE NEEDED TO PROVIDE A MINIMUM DISTANCE OF 36" BETWEEN THE PAVEMENT AND TOP OF BARRICADE. BARRICADE IN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AND SIDE ROADS DURING CONSTRUCTION OPERATIONS. A QUANTITY OF "TEMPORARY PAVEMENT" HAS BEEN INCLUDED IN THE CONTRACT FOR THIS PURPOSE.
3. ADVANCE SIGNS PER HIGHWAY STANDARDS 701006-05, 701501-06, AND 701701-09 SHALL BE MAINTAINED THROUGH ALL STAGES OF CONSTRUCTION.
4. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY CHANGE IN STAGING AT LEAST TWO (2) WORKING DAYS IN ADVANCE.
5. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS "PAVEMENT MARKING REMOVAL" PER SQUARE FOOT.
6. REMOVAL OF TEMPORARY PAVEMENT MARKINGS WHERE REQUIRED SHALL BE PAID FOR AS "WORK ZONE PAVEMENT MARKING REMOVAL".
7. ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES AND SHALL BE CONSIDERED AS PART OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".
8. THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE ROADWAY DURING ALL STAGES OF CONSTRUCTION. THE MOT PLANS PROVIDE ADDITIONAL DIRECTION TO RETROFIT OR INSTALL ADDITIONAL STORM SEWER EQUIPMENT TO DRAIN THE TEMPORARY PAVEMENT AND WORK AREA.
9. TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901-02 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT. BARRICADES ARE TO BE INCIDENTAL TO "TRAFFIC CONTROL PROTECTION (SPECIAL)". ALL TYPE III BARRICADES SHALL HAVE TWO (2) FLASHING AMBER LIGHTS.
10. TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED ON ALL SURFACES OUTSIDE OF THE RESURFACING LIMITS AND ON FINISHED PAVEMENT. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING TAPE, TYPE III OF THE SIZE SPECIFIED.
11. A QUANTITY FOR "CHANGEABLE MESSAGE SIGN" HAS BEEN INCLUDED FOR USE WHEN DIRECTED BY THE ENGINEER.
12. FLAGGERS MUST BE CERTIFIED AND CARRY THEIR CERTIFICATION CARD ON THEM WHEN WORKING. PROPER STOP/SLOW PADDLES MUST BE UTILIZED AND ALL REQUIRED SAFETY GARMENTS MUST BE WORN ON THE JOB SITE. "FLAGGER" WARNING SIGNS MUST BE IN PLACE WHENEVER FLAGGERS ARE PRESENT. THESE SIGNS MUST BE COVERED OR REMOVED WHEN NOT APPLICABLE.
13. "CAUTION" TAPE OR RIBBON IS NOT TO BE USED BETWEEN BARRICADES.
14. HOT-MIX ASPHALT PAVEMENT NECESSARY DURING MAINTENANCE OF TRAFFIC CONSTRUCTION OPERATIONS IS TO BE MIX "D", N50 AND IS TO BE PAID FOR AS TEMPORARY PAVEMENT.
15. TYPE I OR TYPE II BARRICADES WITH TWO-WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIALS OR EQUIPMENT WITHIN THE RIGHT-OF-WAY (NUMBER AND SPACING DEPENDS ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE ENGINEER OR LOCAL LAW ENFORCEMENT AGENCIES.
16. TYPE I, II, AND / OR III BARRICADES WITH TWO-WAY FLASHING LIGHTS WILL BE REQUIRED TO GUIDE TRAFFIC AWAY FROM PAVEMENT AREAS CLOSED FOR CONSTRUCTION.
17. THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, WARNING LIGHTS, AND SIGNS WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
18. WHEN REQUIRED, TRAFFIC SIGNS SHALL BE RELOCATED FROM EACH STAGE OF CONSTRUCTION AS PART OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
19. CONTRACTOR TO INSTALL CHANNELIZED BARRIERS OR TEMPORARY FENCE TO DIRECT PEDESTRIANS THROUGH THE CONSTRUCTION AREAS WHERE TEMP SIDEWALK HAS BEEN INSTALLED. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR TEMPORARY SIDEWALK. THE USE OF THE FENCE OR BARRIERS ARE UP TO THE ENGINEERS DISCRETION.

## MAINTENANCE OF TRAFFIC SEQUENCE OF CONSTRUCTION

### STAGE 1

THIS STAGE WILL CONSIST OF CLOSING THE EASTERN MOST OVER FLOW PARKING LOT AND EASTERN ACCESS DRIVE TO CONSTRUCT THE NEW MAIN ENTRANCE DRIVE AND BUS DROP-OFF AREA. CONTRACTOR TO PROVIDE TEMPORARY ACCESS TO EXISTING PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL THE DRAINAGE, CURB & GUTTERS, LIGHTING, SIGNAL EQUIPMENT, CULVERT, ROADWAY PAVEMENT AND THE THREE MOST EASTERN PARKING STALLS WITH FINAL HMA SURFACE AND STRIPED.

### STAGE 2

THIS STAGE WILL CONSIST OF CLOSING THE AREA FOR THE THREE PROPOSED EASTERN MOST PARKING BAYS TO CONSTRUCT THE NEW PAVEMENT AND REWORK THE DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE TEMPORARY ACCESS TO EXISTING PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL NEW DRAINAGE AND REVISE THE OLD DRAINAGE, CURB & GUTTERS, LIGHTING AND PAVE THE FINAL HMA SURFACE COURSE AND STRIPE THE LOT. THE NEW SIDEWALK AND PARKING LOT PAVEMENT ON THE NORTHWEST SIDE OF THE LOT WILL ALSO BE CONSTRUCTED TO PROVIDE ACCESS TO PEDESTRIANS IN LATER STAGES OF CONSTRUCTION.

### STAGE 3

THIS STAGE WILL CONSIST OF CLOSING THE AREA FOR THE PROPOSED FOUR PARKING BAYS IN THE MIDDLE TO CONSTRUCT THE NEW PAVEMENT AND REWORK THE DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE TEMPORARY ACCESS TO EXISTING AND PROPOSED PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL NEW DRAINAGE AND REVISE THE OLD DRAINAGE, CURB & GUTTERS, LIGHTING AND PAVE THE FINAL HMA SURFACE COURSE AND STRIPE THE LOT. THE CONTRACTOR WILL ALSO CONSTRUCT A TEMPORARY ACCESS POINT ON THE SOUTHWEST CORNER TO PROVIDE BETTER FLOW OF TRAFFIC IN LATER STAGES.

### STAGE 4

THIS STAGE WILL CONSIST OF CLOSING THE AREA FOR THE PROPOSED THREE PARKING BAYS IN THE MIDDLE TO CONSTRUCT THE NEW PAVEMENT AND REWORK THE DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE TEMPORARY ACCESS TO EXISTING AND PROPOSED PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL NEW DRAINAGE AND REVISE THE OLD DRAINAGE, CURB & GUTTERS, LIGHTING AND PAVE THE FINAL HMA SURFACE COURSE AND STRIPE THE LOT.

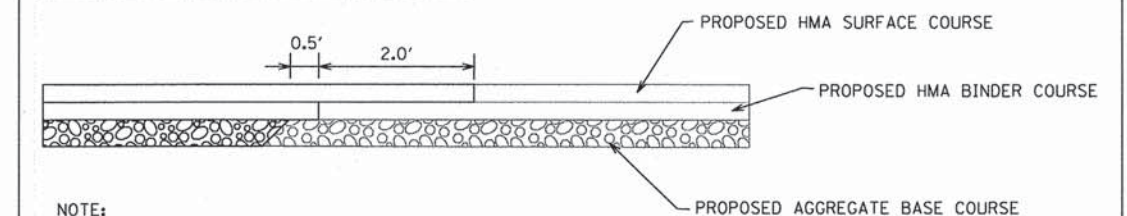
### STAGE 5

THIS STAGE WILL CONSIST OF CLOSING THE AREA FOR THE PROPOSED FIVE PARKING BAYS TO THE WEST TO CONSTRUCT THE NEW PAVEMENT AND REWORK THE DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE ACCESS TO EXISTING AND PROPOSED PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL NEW DRAINAGE AND REVISE THE OLD DRAINAGE, CURB & GUTTERS, LIGHTING AND PAVE THE FINAL HMA SURFACE COURSE AND STRIPE THE LOT.

### STAGE 6

THIS STAGE WILL CONSIST OF CLOSING THE AREA FOR THE PROPOSED FIVE PARKING BAYS TO THE WEST TO REWORK THE EXISTING PAVEMENT AND REWORK THE DRAINAGE SYSTEM. CONTRACTOR TO PROVIDE ACCESS TO THE PROPOSED PARKING LOT AREAS AS SHOWN ON THE PLANS. CONTRACTOR TO INSTALL ALL NEW DRAINAGE AND REVISE THE OLD DRAINAGE, CURB & GUTTERS, LIGHTING AND PAVE THE FINAL HMA SURFACE COURSE AND STRIPE THE LOT.

DETAIL FOR PAVEMENT TIE IN BETWEEN STAGES



NOTE:  
GRAY SCALED LINEWORK IS THE PREVIOUS STAGE  
THE DARK LINEWORK IS THE NEXT STAGE TO BE CONSTRUCTED



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PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
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	DATE - 03-04-15	REVISED -

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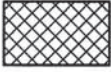
SUGGESTED STAGE OF CONSTRUCTION AND TRAFFIC CONTROL  
GENERAL NOTES

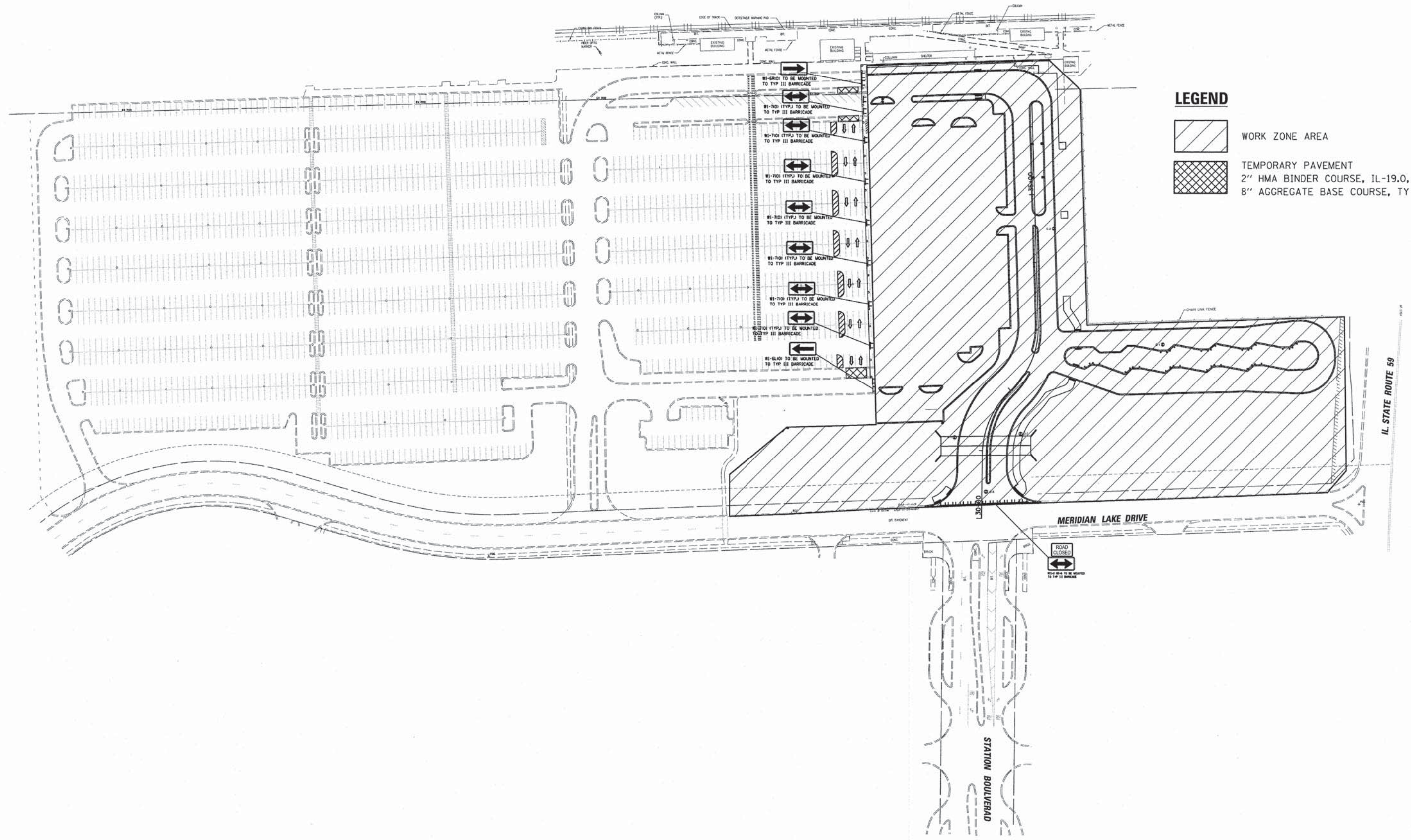
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MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	30
				CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  WORK ZONE AREA
-  TEMPORARY PAVEMENT  
2" HMA BINDER COURSE, IL-19.0, N50  
8" AGGREGATE BASE COURSE, TY B



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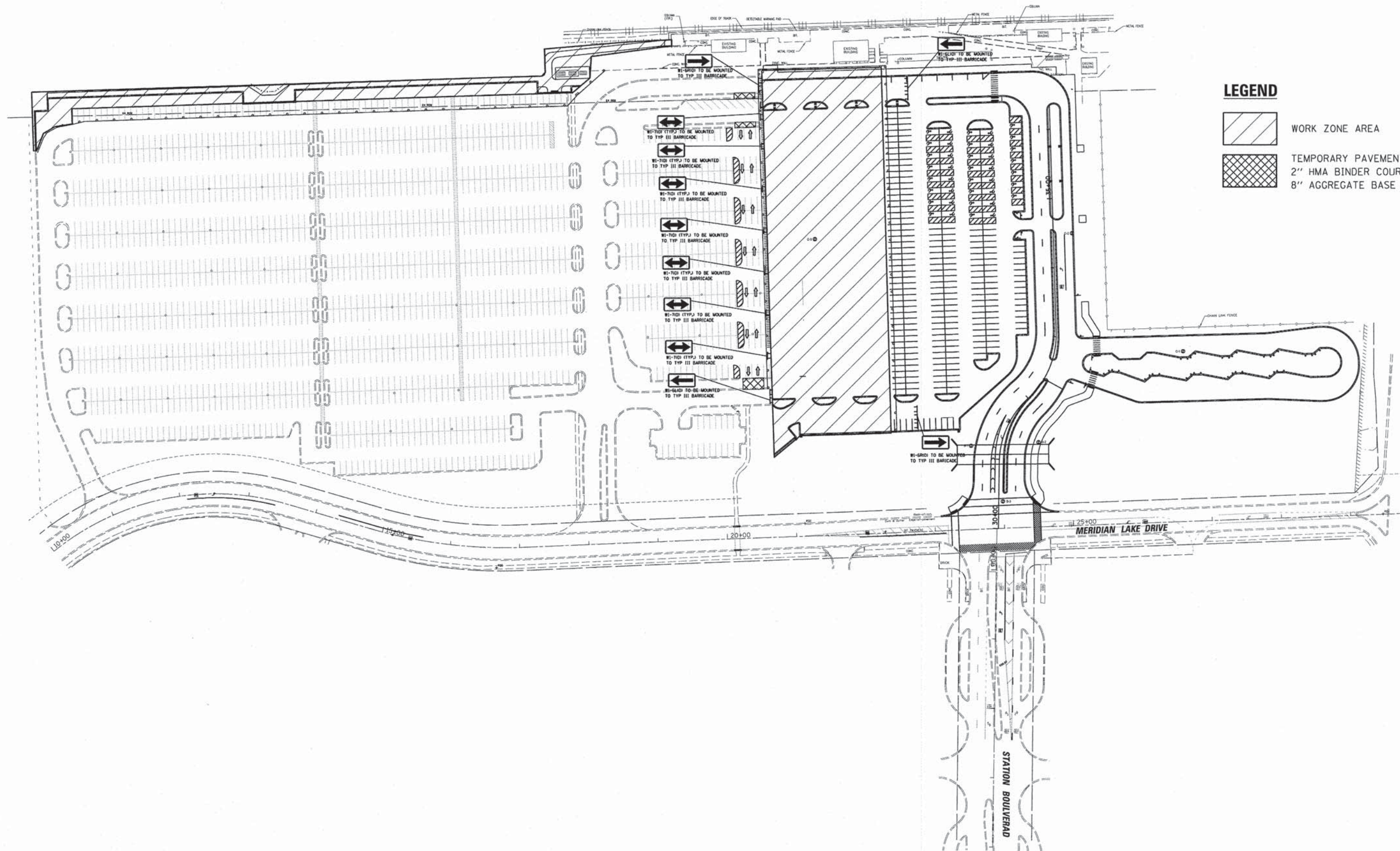
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**


**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 1**


SCALE: N.T.S. SHEET 2 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B33	



**LEGEND**

 WORK ZONE AREA

 TEMPORARY PAVEMENT  
2" HMA BINDER COURSE, IL-19.0, N50  
8" AGGREGATE BASE COURSE, TY B

IL STATE ROUTE 59



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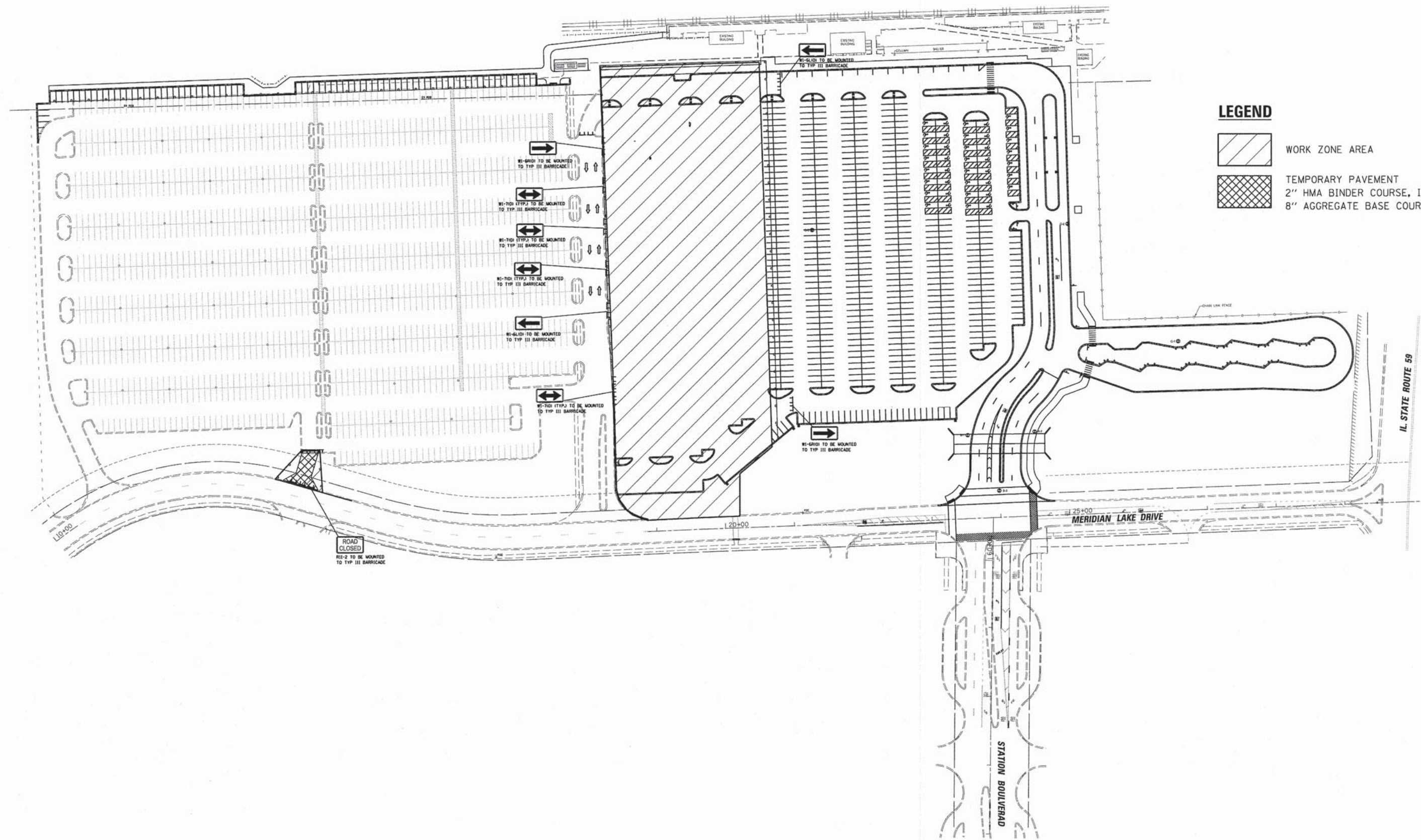
**STATE OF ILLINOIS  
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**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 2**

SCALE: N.T.S. SHEET 3 OF 7 SHEETS STA. TO STA.

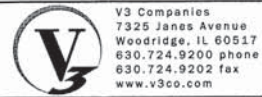
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0084	13-00300-00-PK	DUPAGE	101	32
			CONTRACT NO. 61B33	
[ILLINOIS] FED. AID PROJECT				





**LEGEND**

- WORK ZONE AREA
- TEMPORARY PAVEMENT  
2" HMA BINDER COURSE, IL-19.0, N50  
8" AGGREGATE BASE COURSE, TY B



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#  
DESIGNED - JH  
DRAWN - JH  
CHECKED - MJR  
DATE - 03-04-15

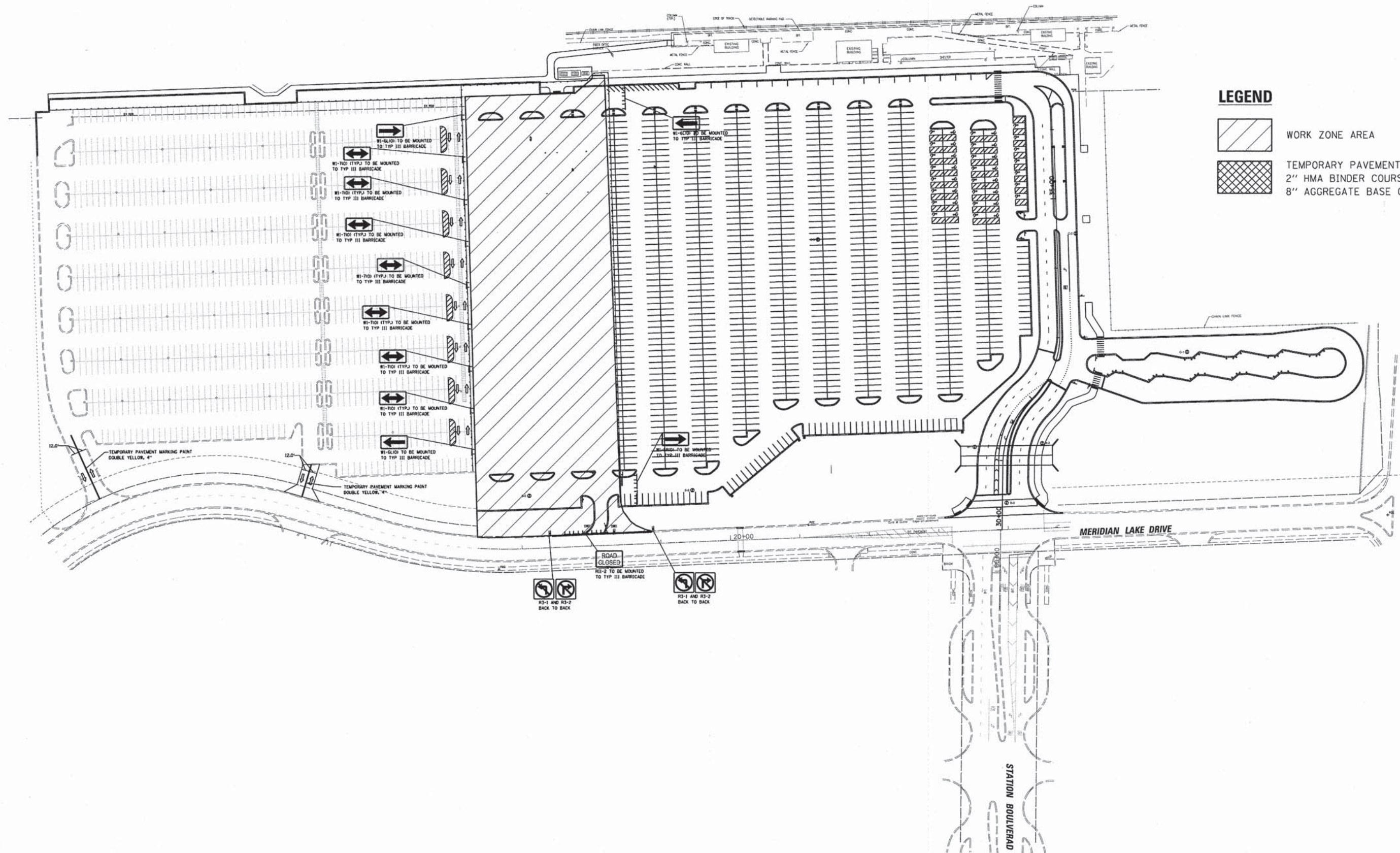
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 3**

SCALE: N.T.S. SHEET 4 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	33
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- WORK ZONE AREA
- TEMPORARY PAVEMENT  
2" HMA BINDER COURSE, IL-19.0, N50  
8" AGGREGATE BASE COURSE, TY B



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Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

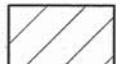

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 4**

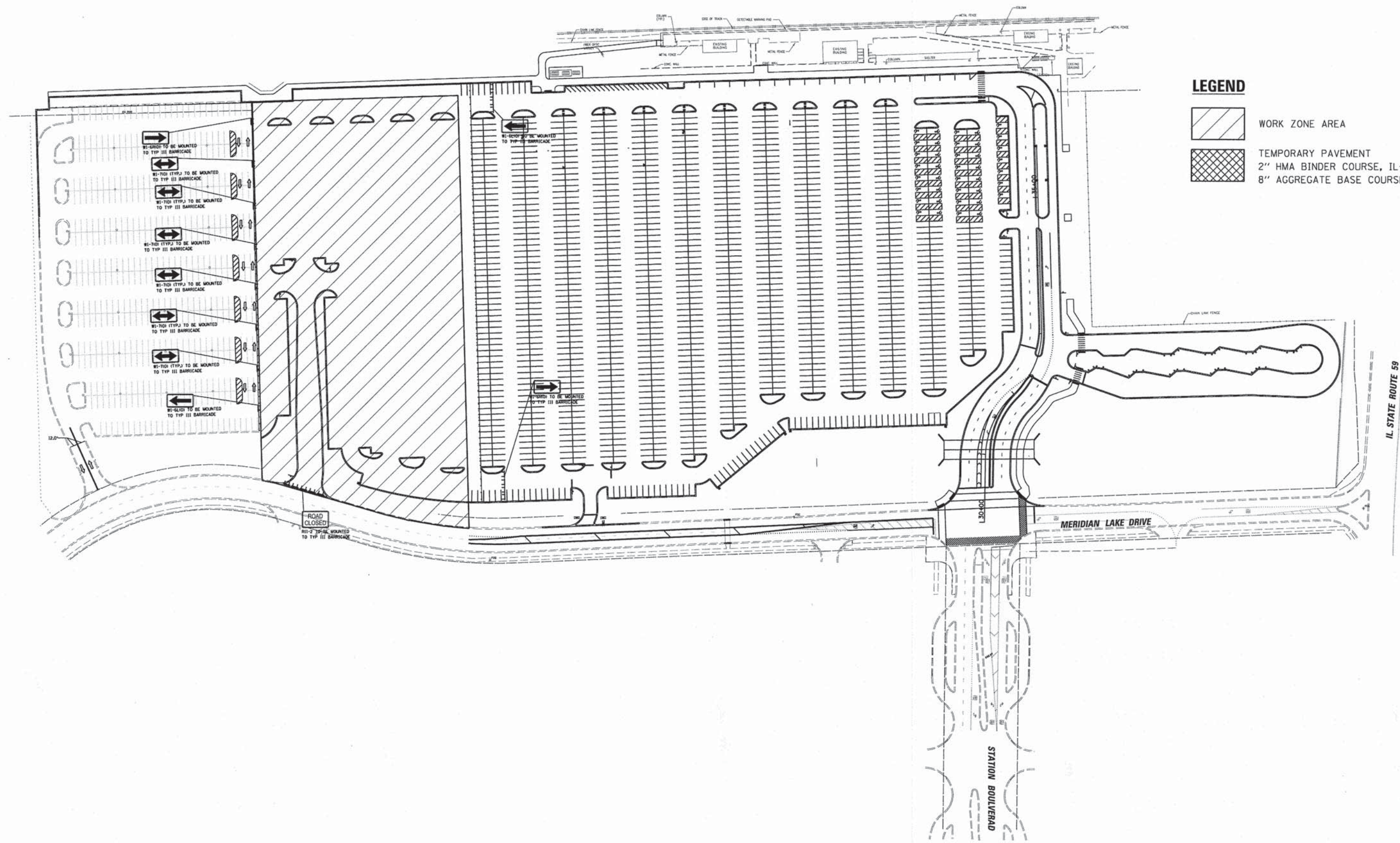
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MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	34
				CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  WORK ZONE AREA
-  TEMPORARY PAVEMENT  
2" HMA BINDER COURSE, IL-19.0, N50  
8" AGGREGATE BASE COURSE, TY B



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 5**

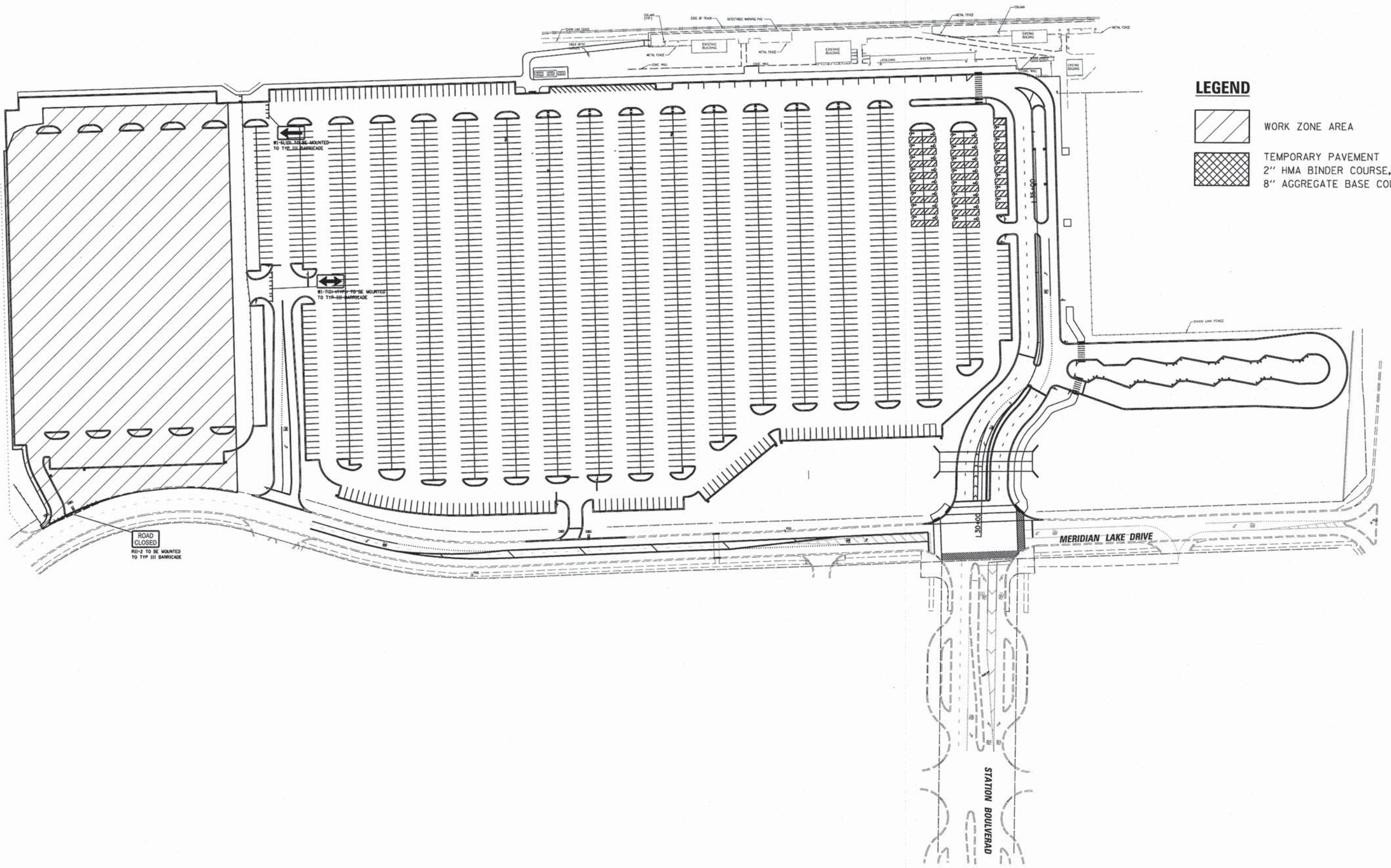
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MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61B33				
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**LEGEND**

-  WORK ZONE AREA
-  TEMPORARY PAVEMENT  
2" HMA BINDER COURSE, IL-19.0, N50  
8" AGGREGATE BASE COURSE, TY B



**V3** Companies  
7325 Jones Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#  
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PLOT DATE = 3/3/2015

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DATE - 03-04-15

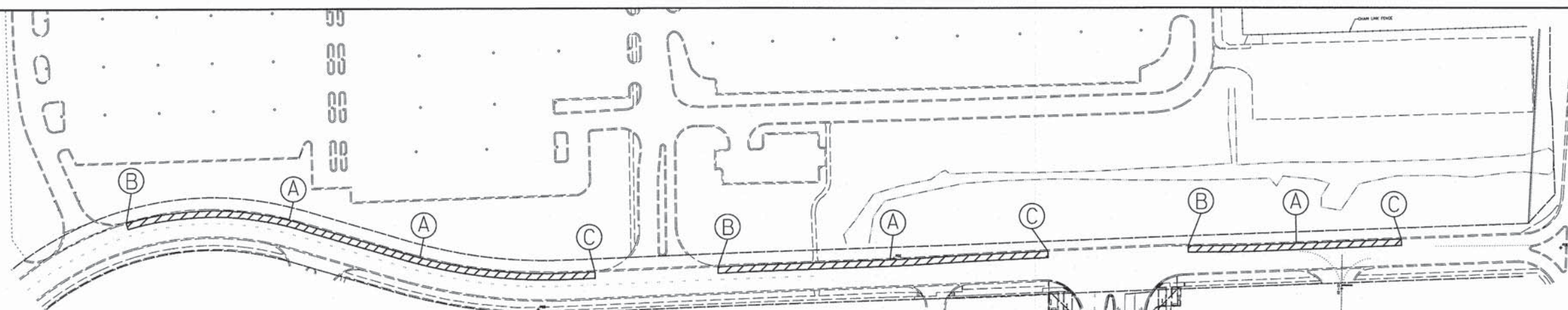
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**STATE OF ILLINOIS  
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**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 6**

SCALE: N.T.S. SHEET 7 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				



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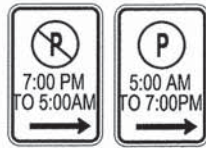
 DESIGNATED AREAS FOR ON STREET PARKING

NOTES:

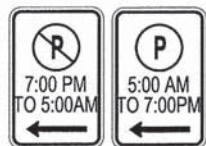
1. CONTRACTOR TO COORDINATE WITH THE ENGINEER AND THE CITY OF AURORA TO PLACE ALL STREET PARKING SIGNS. ANY CONFLICTING SIGNS SHALL BE COVERED IN A MANNER TO NOT DO DAMAGE TO THE EXISTING SIGN. ALL SIGNS SHALL BE PLACED A MAXIMUM OF 250 FT FROM EACH OTHER.
2. IF THE LOCATION WHERE A SIGN IS TO BE INSTALLED IS PAVEMENT OR SIDEWALK, THE CONTRACTOR SHALL PROVIDE A TEMPORARY SIGN SUPPORT THAT WILL NOT DAMAGE THE EXISTING PAVEMENT OR SIDEWALK.



R7-23 (12X18)  
R7-2 (12X18)



R7-23 (12X18)  
R7-2 (12X18)



R7-23 (12X18)  
R7-2 (12X18)

(A)

(B)

(C)

TY III BARRICADE TO CLOSE OFF DRIVEWAY

TY III BARRICADE TO CLOSE OFF DRIVEWAY

TY III BARRICADE TO CLOSE OFF DRIVEWAY

FILE NAME =	USER NAME = jholly	DESIGNED -	REVISED -
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	PLOT DATE = 3/3/2015	DATE = 03-04-15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY OFF SITE PARKING MAP

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	37
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

**STORM WATER POLLUTION PREVENTION PLAN NOTES**  
 This plan has been prepared to comply with the NPDES permit number ILR10, issued by the Illinois Environmental Protection Agency (IEPA) for stormwater discharges from construction site activities.

The permittee must comply with all conditions of the General Permit. Any non-compliance constitutes a violation of the IEPA act and the Clean Water Act and can be grounds for enforcement action, permit revocation, modification, re-issuance, termination, or denial of a permit renewal.

**1. Site Description**

- a. The construction activity consists of parking lot reconstruction and storm sewer modifications.
- b. The intended sequence of major activities which disturb soils for major portions of the site is: demolition, clearing and grubbing, topsoil stripping, storm sewer installation, utility construction, grading, pavement construction, fine grading, lighting installation, placement of topsoil and establishment of permanent vegetation.
- c. The total area of the site is approximately 26.5 acres and all 26.5 acres are expected to be disturbed by excavation, storm sewer installation, grading, or other activities.
- d. The runoff coefficient of the site after construction activities are completed is estimated to be 0.80. The soil types that are prevalent on the site are Drummer silty clay loam, Vama silt loam, Graymont silt loam, and Chenoa silty clay loam. The project consists of predominantly type B/D soils according to the Soil Survey of DuPage County.
- e. This plan indicates drainage patterns and approximate slopes anticipated before and after major grading activities, areas of soil disturbance, the location of major structural and nonstructural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water.
- f. The ultimate receiving water is the Waubensee Creek. The project area contains wetlands and waterways subject to US Army Corps of Engineers (ACOE) jurisdiction and wetlands regulated by the Kane County Stormwater Ordinance.

**2. Controls**

**a. Erosion and Sediment Controls**

**(i) Stabilization Practices**

- \* Prior to earthwork, silt fence and inlet filter baskets shall be installed as indicated on the plan.
- \* Upon construction of the storm sewer system and final installation of the inlet grates, inlet sediment filters shall be installed.
- \* Depending on the timing between storm sewer installation and the grading associated with the parking lot modification, temporary seeding of all disturbed areas may be necessary.
- \* Similarly, depending on the timing between grading activities and concrete gutter and curb installation, a second temporary seeding of all disturbed areas may be necessary.
- \* Similarly, depending on the timing between concrete gutter and curb installation and final grading and topsoil re-spread, a third temporary seeding of all disturbed areas may be necessary.
- \* Ultimately, all disturbed areas of the site shall be brought to final grade, re-spread with topsoil and established with permanent vegetation and covered with temporary erosion control blanket.
- \* All adjacent streets must be kept clear of debris, inspected daily and cleaned when necessary.
- \* Erosion control blanket and/or straw mulch with netting (depending on slope, length, and flow rates) shall be installed on all slopes in critical areas (wetland/buffer impacts, berms, etc.) immediately upon final grading.
- \* Stockpiles are not anticipated as part of this project. If necessary during construction, stockpiles of soil and other building materials to remain in place more than three (3) days shall be furnished with erosion and sediment control measures (i.e. perimeter silt fence). Stockpiles, not being actively worked and to remain in place for 14 days or more shall receive temporary seeding.
- \* These controls shall be actively maintained until final stabilization of those portions of the site upward of the perimeter control.

Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization of disturbed areas must be initiated within 1 working day of permanent or temporary cessation of earth disturbing activities and shall be completed as soon as possible but not later than 14 days from the initiation of stabilization work in an area. Exceptions to these time frames are specified as provided in paragraphs (A) and (B) below:

- (A) Where the initiation of stabilization measures is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.
- (B) On areas where construction activity has temporarily ceased and will resume after 14 days, a temporary stabilization method can be used. Temporary stabilization techniques and materials shall be described in the SWPPP.

**(ii) Structural Practices**

- \* Disturbed areas of the site shall be temporarily stabilized and/or graded to drain towards sediment control measures.

**b. Storm Water Management**

- (i) Where velocities dictate, rip rap is to be placed at discharge locations to provide a non-erosive transition of flow from the structure to the water course.

**c. Other Controls.**

- (i) **Waste Disposal.** No solid materials, including building materials, shall be discharged to Waters of the State, except as authorized by a Section 404 permit.
- (ii) The Contractor is responsible for compliance with applicable State and/or local waste disposal and sanitary sewer or septic system regulations.

**d. Approved State or Local Plans.** Except where modified on this plan, all work proposed hereon shall be in accordance with the City of Aurora and DuPage County Ordinances and the requirements contained in Illinois Environmental Protection Agency's Illinois Urban Manual, latest edition. In the event of conflicting specifications with regard to site work issues designed by the engineer, the more stringent requirement shall govern.

**3. Maintenance.** The Contractor shall maintain the sediment and erosion control measures identified on this plan until the site is stabilized. Items in need of repair shall be addressed as soon as practicable. Maintenance items include inlet filters, silt fence, erosion control blanket, and temporary and/or permanent vegetation throughout the site. Furthermore, any soil that is transported off-site by equipment or vehicles onto the roadway shall be removed daily, or as requested by the local agency.

**4. Inspections.** Qualified personnel (provided by the permittee) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall. Qualified personnel means a person knowledgeable in the principles and practice of erosion and sediment controls, such as a licensed professional engineer or other knowledgeable person who possesses the skills to assess conditions at the construction site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the construction activities.

**a.** Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to determine whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

**b.** Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with paragraph 1 (Site Description) of these notes and pollution prevention measures identified in the plan in accordance with paragraph 2 (Controls) of these notes shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within 7 calendar days following the inspection.

**c.** A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph b above shall be made and retained as part of the storm water pollution prevention plan for at least three years from the date that the permit coverage expires or is terminated. The report shall be signed by the Permittee.

**d.** The permittee shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) report for any violation of the storm water pollution prevention plan observed during an inspection conducted, including those not required by the Plan. Submission shall be on forms provided by the Agency and include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance.

**e.** All reports of noncompliance shall be signed by the Permittee.

**f.** Reports of noncompliance shall be mailed to the Agency at the following address:

Illinois Environmental Protection Agency  
 Division of Water Pollution Control  
 Compliance Assurance Section  
 1021 North Grand Avenue East  
 Post Office Box 19276  
 Springfield, Illinois 62794-9276

**5. Non-Storm Water Discharges.** The following sources of non-stormwater may be combined with stormwater discharges associated with the industrial activity addressed in this plan.

- \* Fire fighting activities
- \* Water main/ hydrant flushing
- \* Watering for dust control
- \* Irrigation drainage for vegetative growth
- \* Wash water where detergents are not used.
- \* Uncontaminated ground water

Non-fire fighting discharges from water mains and pumps shall not be permitted to flow directly onto the soil without energy dissipaters sufficient to reduce velocities to a non-erosive rate. All site de-watering, including pump discharge shall pass through sediment control devices prior to leaving the site.

**6. Retention of Records**

- a. The permittee shall retain copies of storm water pollution prevention plans and all reports and notices required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, for a period of at least three years from the date that the permit coverage expires or is terminated. This period may be extended by request of the Agency at any time.
- b. The permittee shall retain a copy of the storm water pollution prevention plan required by this permit at the construction site from the date of project initiation to the date of final stabilization.

**7. Notice of Termination.** Upon Final stabilization of the site the permittee shall submit a completed Notice of Termination in accordance with NPDES Permit No. ILR10.

**8. Certification Statement.** The following statement shall be signed prior to any work authorized by NPDES Permit No. ILR10 is performed at the site. The undersigned is responsible for implementation of all measures identified on this plan.

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2009

By \_\_\_\_\_ Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_

**Kane - DuPage Soil & Water Conservation District Notes**

- a) Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed according to minimum standards and specifications in the Illinois Urban Manual latest edition.
- b) The Kane-DuPage Soil and Water Conservation District (KDSWCD) must be notified one week prior to the pre-construction conference, one week prior to the commencement of land disturbing activities, and one week prior to the final inspection.
- c) A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.
- d) Prior to commencing land-disturbing activities in areas other than indicated on these plans (including but not limited to, additional phases of development and off-site borrow or waste areas) a supplementary erosion control plan shall be submitted to the owner for review by the KDSWCD.
- e) The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the KDSWCD.
- f) During dewatering operations, water will be pumped into sediment basins or silt traps. Dewatering directly into streams, wetlands, field tiles, or stormwater structures is prohibited.
- g) It is the responsibility of the landowner and/or general contractor to inform any sub-contractor(s) who may perform work on this project, of the requirements in implementing and maintaining these erosion control plans and the National Pollutant Discharge Elimination System (NPDES) permit requirements set forth by the Illinois EPA.

**Soil Stabilization Chart for Erosion Control**

Activity	Rate (lb.) PLS/Acre	Rate (lb.) PLS/1000 Sq. Ft.	Site Suitability			Seeding Period		
			Droughty	Well Drained	Wet	Spring	Summer	Dormant
<b>Temporary Practices</b>								
Mulching	3900	90				All Year		
<b>Temporary Seeding</b>								
Cereal (annual Ryegrass)	90	2.5	X	X	X	Early Spring - Sept 30		
Oats	90	2.5	X	X	X	Early Spring - July 1		
<b>Permanent Practices</b>								
Sodding	-	-				Early Spring - Nov 30		
<b>Permanent Seeding</b>								
Smooth Bromegrass	24	0.55	X	X	X	Early Spring - June 1	Aug 1 - Sept 1	Nov 1 - Mar 15
Tall Fescue	12	0.3		X	X	Early Spring - June 1	Aug 1 - Sept 1	Nov 1 - Mar 15
Redtop	2.5	0.06	X	X	X	Early Spring - June 1	Aug 1 - Sept 1	Nov 1 - Mar 15
Creeping Red Fescue	15	0.34	X	X	X	Early Spring - June 1	Aug 1 - Sept 1	Nov 1 - Mar 15
Switchgrass	8	0.2	X	X	X	Early Spring - June 15		Nov 1 - Mar 15

**Notes:**

See Illinois Urban Manual Practice Standards for specifications for all of the listed activities including but not limited to:

- Mulching - Code 875
- Temporary Seeding - Code 965
- Sodding - Code 925
- Permanent Vegetation - Code 880
- Erosion Control Blanket - Code 830



V3 Companies  
 7325 Janes Avenue  
 Woodridge, IL 60517  
 830.724.9200 phone  
 830.724.9202 fax  
 www.v3co.com

USER NAME = #USER#  
 DESIGNED - HEV  
 DRAWN - HS  
 CHECKED - MJR  
 DATE - 03-04-15

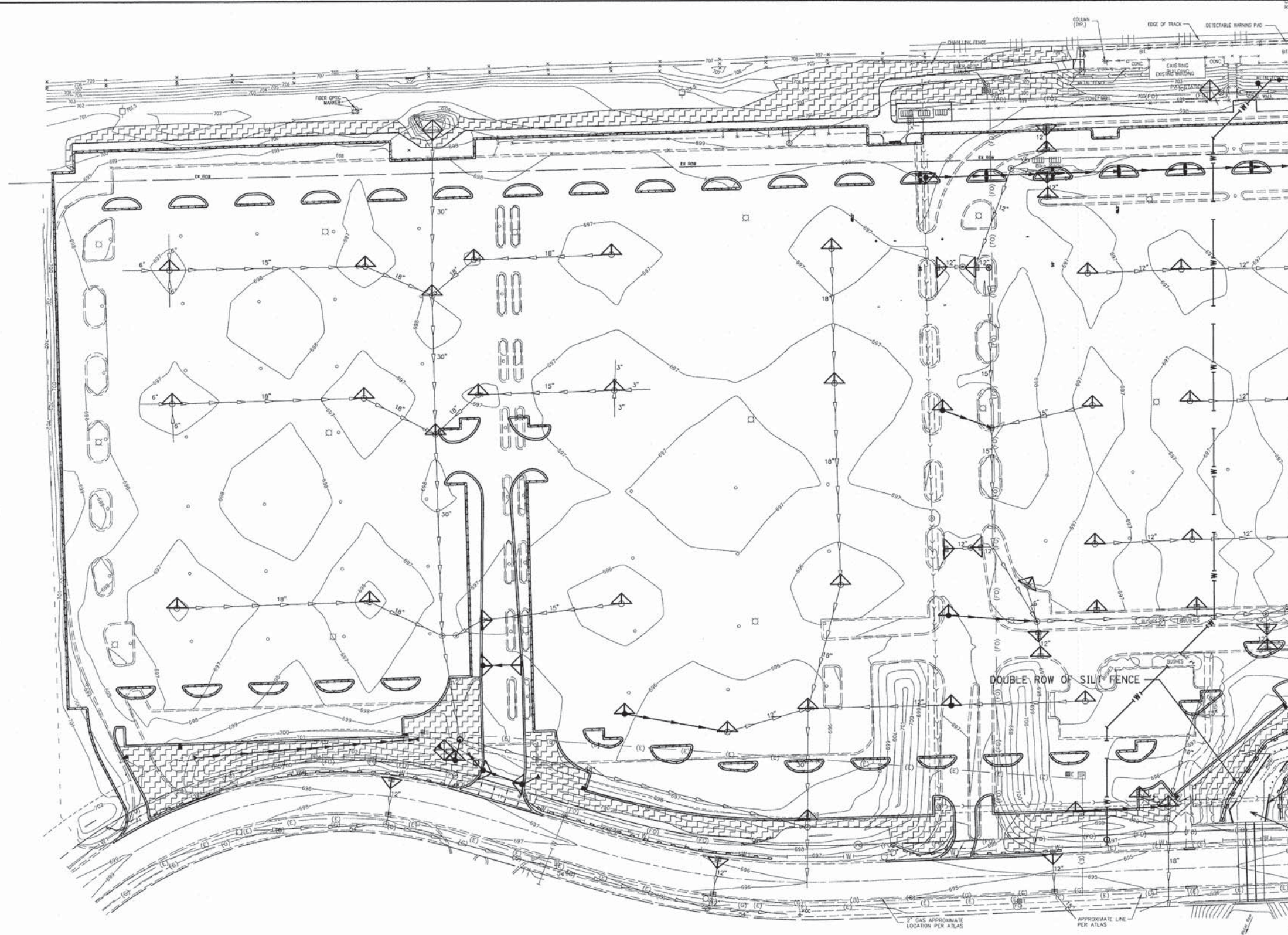
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL NOTES**

SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
00B4	13-00300-00-PK	DUPAGE	101	38
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



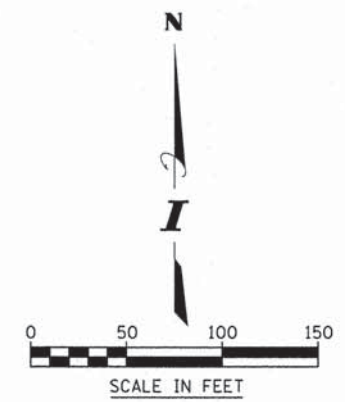
MATCHLINE SEE SHEET 40

**LEGEND**

- INLET FILTERS
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING WITH TEMPORARY EROSION CONTROL BLANKET

EXISTING WETLAND BOUNDARY

SEDIMENT BASIN SHALL BE PLACED UPSTREAM OF CULVERTS



V3 Companies  
7325 James Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#  
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
**EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1"=50'    SHEET 2 OF 4 SHEETS    STA.    TO STA.

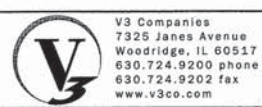
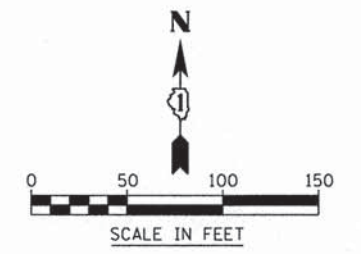
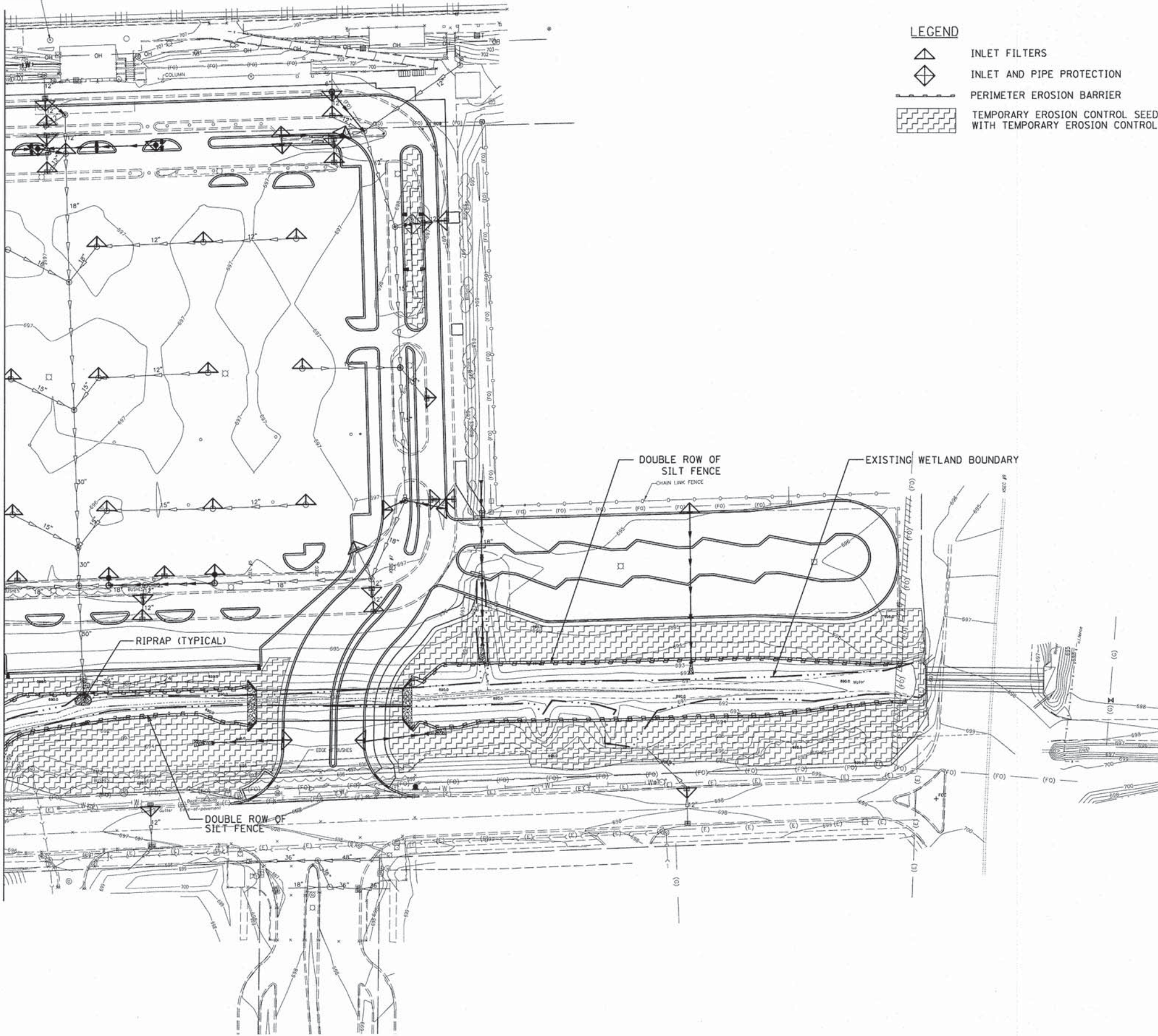
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	39
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

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**LEGEND**

-  INLET FILTERS
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING WITH TEMPORARY EROSION CONTROL BLANKET

MATCHLINE SEE SHEET 39



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7325 Janes Avenue  
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630.724.9200 phone  
630.724.9202 fax  
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USER NAME = #USER#  
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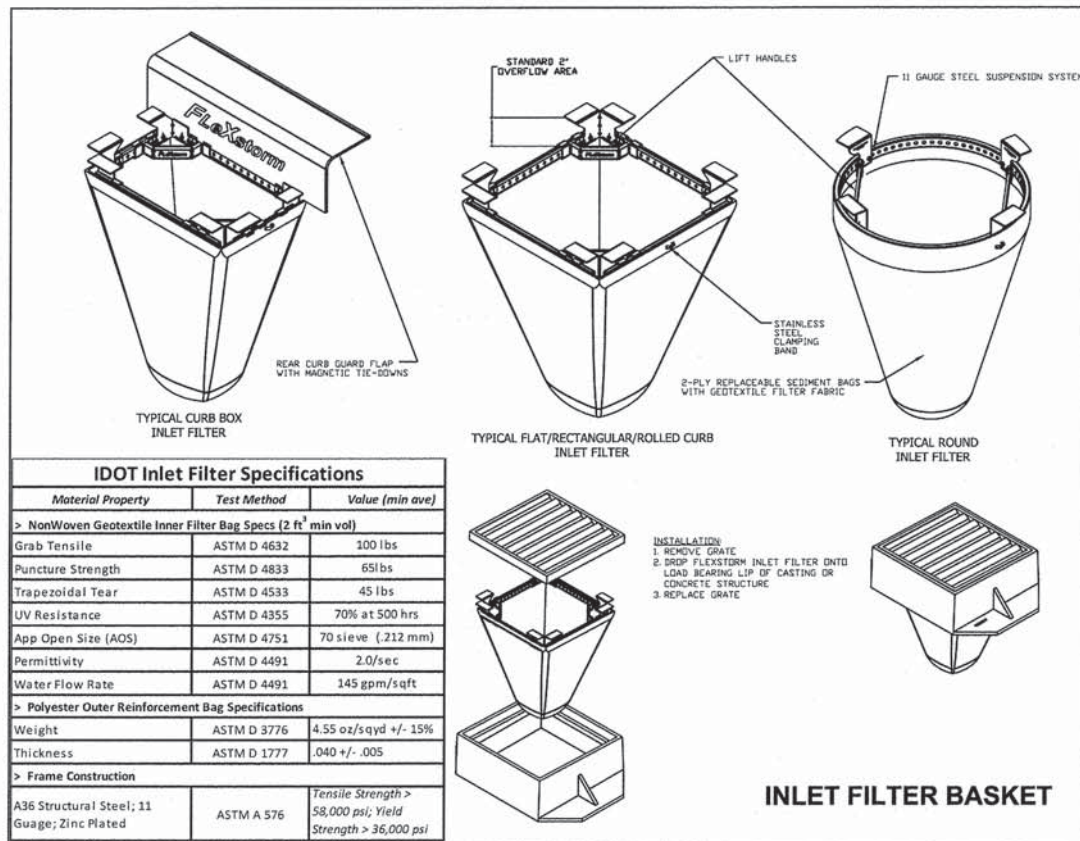
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1"=50' SHEET 3 OF 4 SHEETS STA. TO STA.

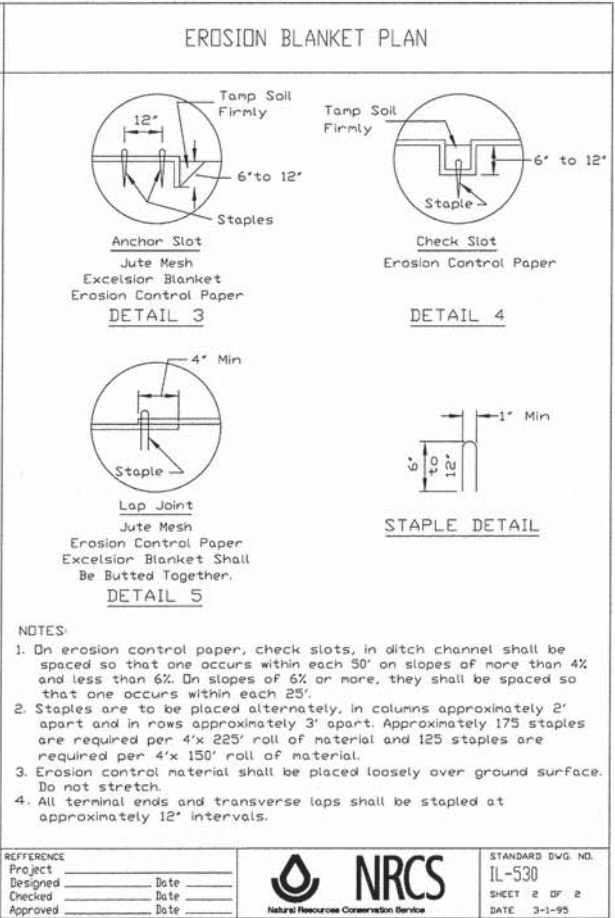
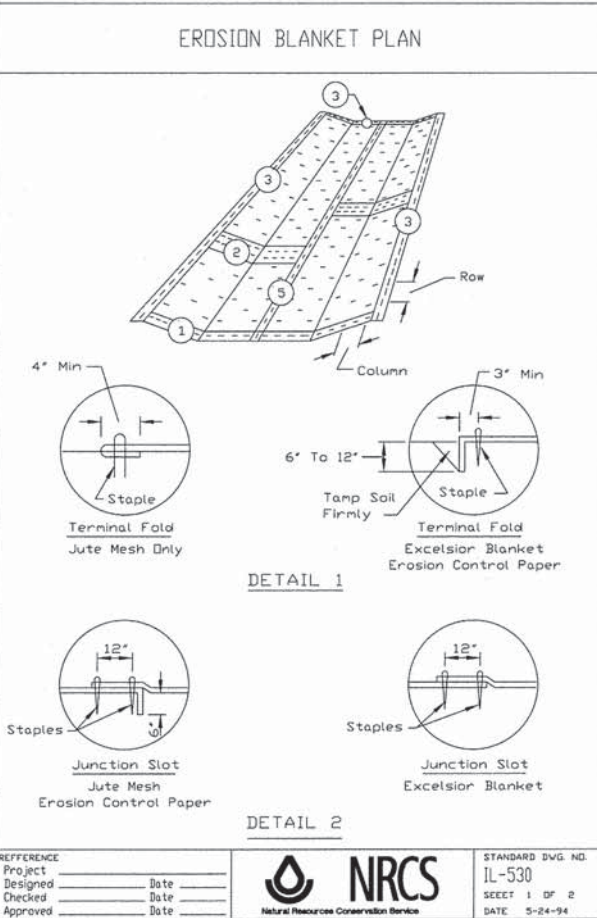
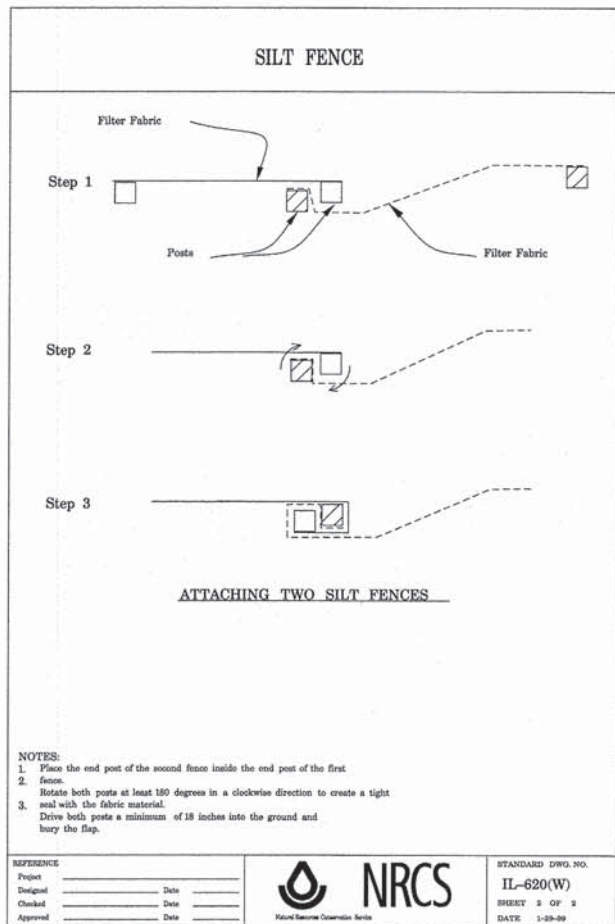
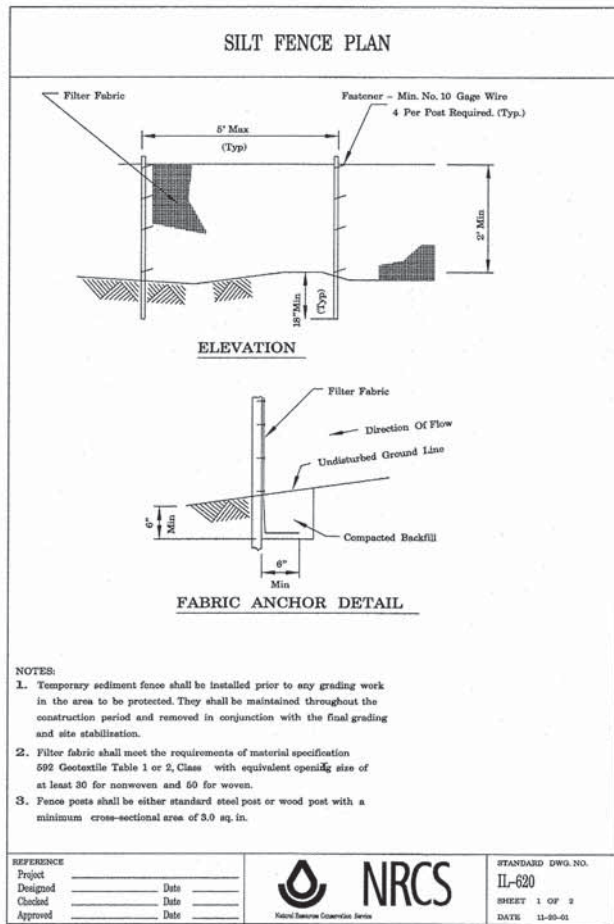
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	40
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	





**IDOT Inlet Filter Specifications**

Material Property	Test Method	Value (min ave)
<b>&gt; NonWoven Geotextile Inner Filter Bag Specs (2 ft<sup>2</sup> min vol)</b>		
Grab Tensile	ASTM D 4632	100 lbs
Puncture Strength	ASTM D 4833	65 lbs
Trapezoidal Tear	ASTM D 4533	45 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs
App Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)
Permittivity	ASTM D 4491	2.0/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft
<b>&gt; Polyester Outer Reinforcement Bag Specifications</b>		
Weight	ASTM D 3776	4.55 oz/sqyd +/- 15%
Thickness	ASTM D 1777	.040 +/- .005
<b>&gt; Frame Construction</b>		
A36 Structural Steel; 11 Gauge; Zinc Plated	ASTM A 576	Tensile Strength > 58,000 psi; Yield Strength > 36,000 psi



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

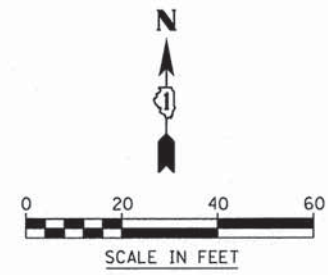
USER NAME = #USER#  
DESIGNED - HEV  
DRAWN - HS  
CHECKED - MJR  
DATE - 03-04-15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL DETAILS  
SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	41

CONTRACT NO. 61B33  
ILLINOIS FED. AID PROJECT



30" RCP  
IE=693.64

30" RCP  
IE=693.71

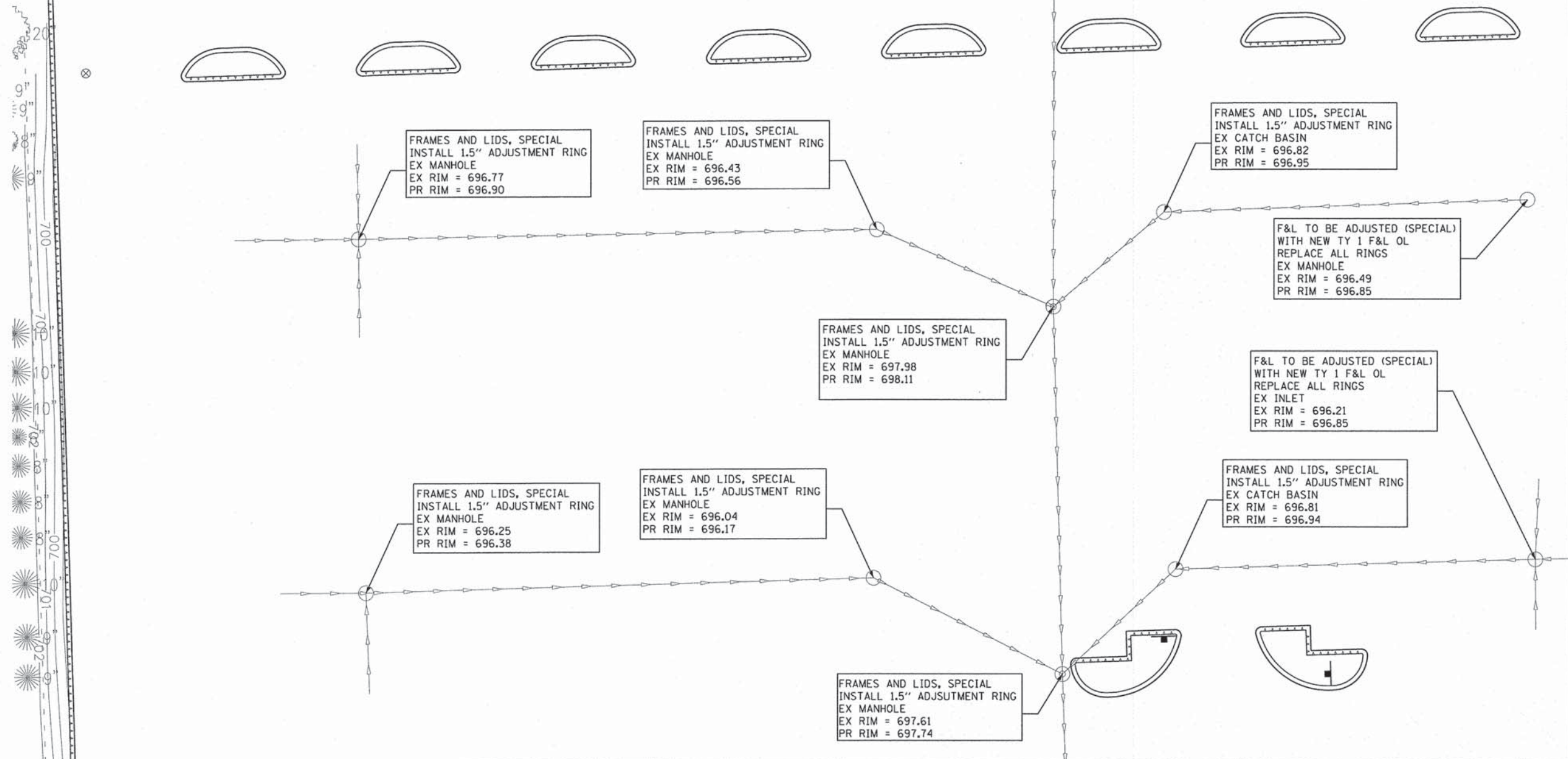
IE=694.33

30" RCP  
IE=693.86

699

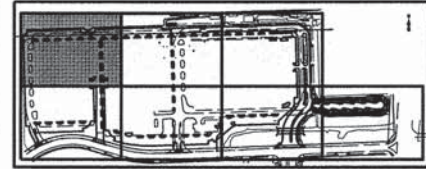
696

698



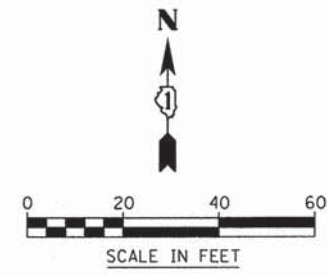
MATCH LINE SEE SHEET 43

MATCH LINE SEE SHEET 45



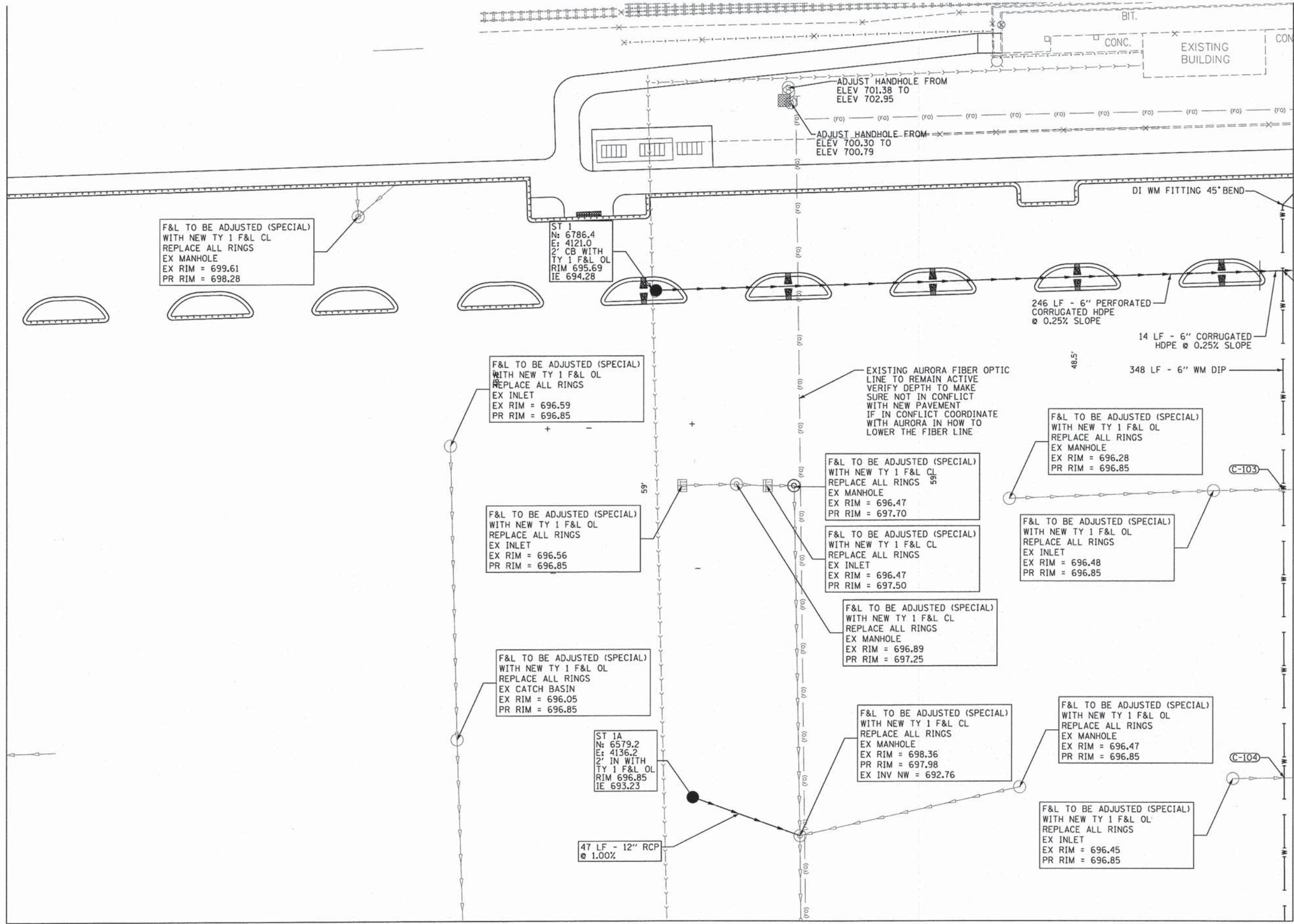
KEY MAP

<p>V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com</p>	USER NAME = #USER#	DESIGNED - JH	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>DRAINAGE AND UTILITY PLAN</b></p>		MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	CHECKED - MJR	REVISED -				0084	13-00300-00-PK	DUPAGE	101	42
PLOT DATE = 3/3/2015	DATE - 03-04-15	REVISED -	REVISED -	SCALE: 1"=20'		SHEET 1 OF 7 SHEETS	STA.	TO STA.	CONTRACT NO. 61B33		
ILLINOIS FED. AID PROJECT											

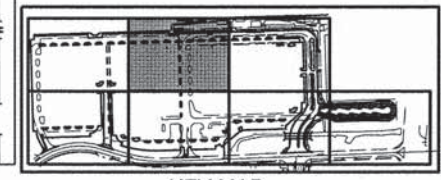


MATCH LINE SEE SHEET 42

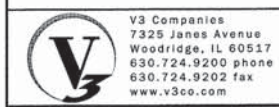
MATCH LINE SEE SHEET 44



- NOTE: SEE CITY OF AURORA WATER MAIN LOWERING DETAIL (EXH III-C-8).
- WATERMAIN CROSSINGS**
- (C-102) PR SS B/P: 693.46  
PR WM T/P: 691.61
  - (C-103) EX SS B/P: 692.98 (ASSUMED)  
• PR WM T/P: 691.48 (VERIFY)
  - (C-104) EX SS B/P: 692.97  
• PR WM T/P: 691.47



MATCH LINE SEE SHEET 46



USER NAME = #USER#  
 PLOT SCALE = #SCALE#  
 PLOT DATE = 3/3/2015

DESIGNED - JH  
 DRAWN - EIH  
 CHECKED - MJR  
 DATE - 03-04-15

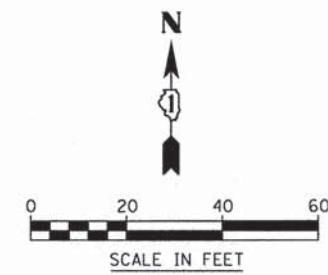
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

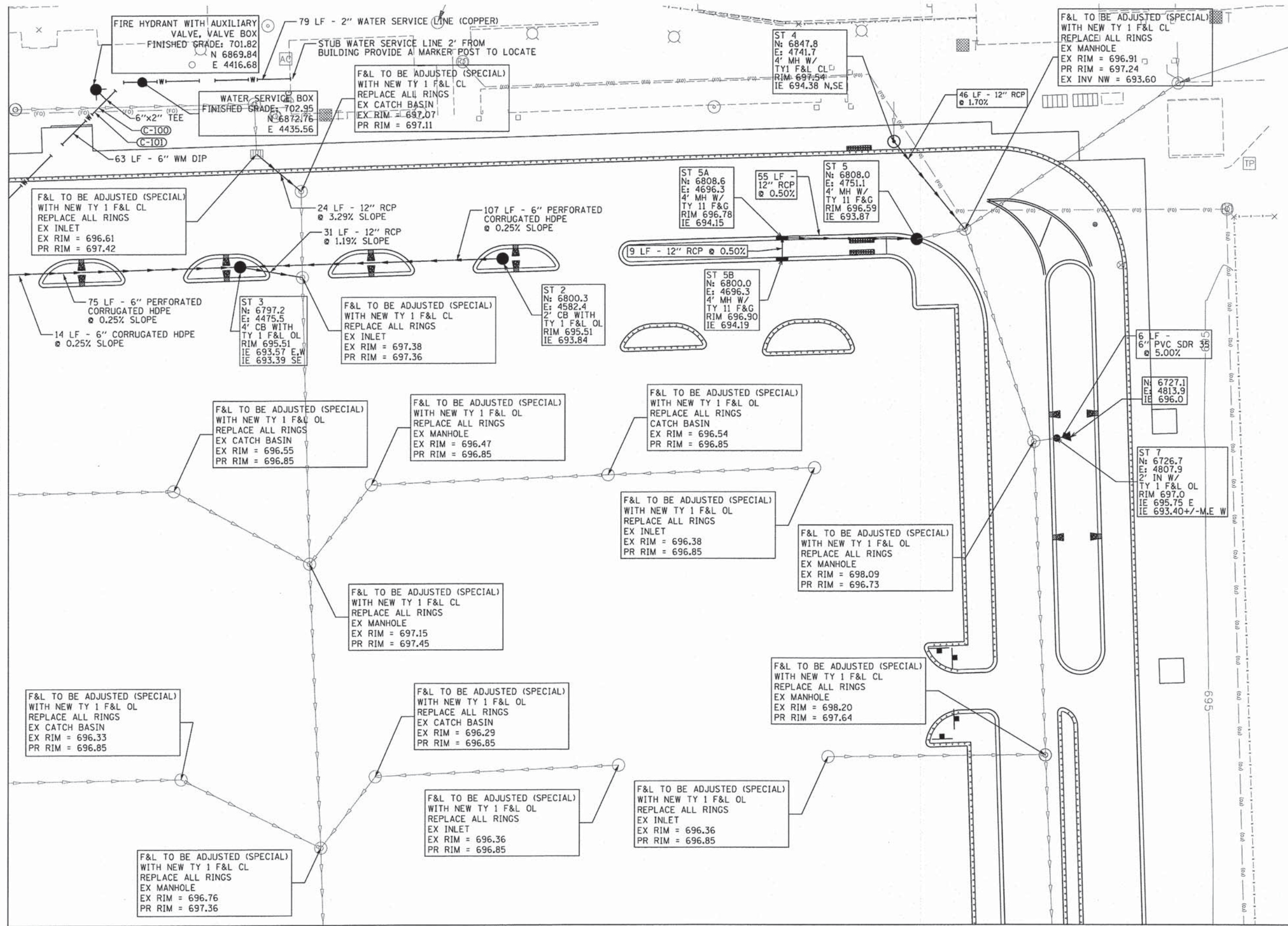
**DRAINAGE AND UTILITY PLAN**

SCALE: 1"=20'    SHEET 2 OF 7 SHEETS    STA.    TO STA.

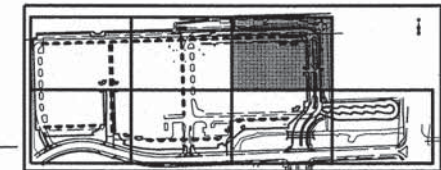
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	43
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



MATCH LINE SEE SHEET 43



- NOTE: SEE CITY OF AURORA WATER MAIN LOWERING DETAIL (EXH III-C-8).
- WATERMAIN CROSSINGS
- (C-100) EX SS B/P: 694.96  
• PR WM T/P: 693.46
- (C-101) EX FIBER: 696.50  
PR WM T/P: 693.50



KEY MAP

MATCH LINE SEE SHEET 47



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#  
DESIGNED - JH  
DRAWN - EIH  
CHECKED - MJR  
DATE - 03-04-15

REVISED -  
REVISED -  
REVISED -  
REVISED -

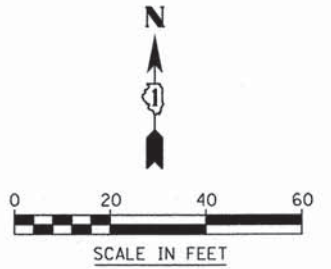
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK		101	44
			DUPAGE	CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 42



FRAMES AND LIDS, SPECIAL  
INSTALL 1.5" ADJUSTMENT RING  
EX MANHOLE  
EX RIM = 695.82  
PR RIM = 695.95

FRAMES AND LIDS, SPECIAL  
INSTALL 1.5" ADJUSTMENT RING  
EX MANHOLE  
EX RIM = 695.06  
PR RIM = 695.19

F&L TO BE ADJUSTED (SPECIAL)  
WITH NEW TY 11 F&G  
REPLACE ALL RINGS  
EX MANHOLE  
EX RIM = 696.29  
PR RIM = 696.80  
EX INV N = 691.71

41 LF - 12" RCP  
@ 1.00%

F&L TO BE ADJUSTED (SPECIAL)  
WITH NEW TY 1 F&L OL  
REPLACE ALL RINGS  
EX MANHOLE  
EX RIM = 696.56  
PR RIM = 696.85

FRAMES AND LIDS, SPECIAL  
INSTALL 1.5" ADJUSTMENT RING  
EX MANHOLE  
EX RIM = 697.30  
PR RIM = 697.99

FRAMES AND LIDS, SPECIAL  
INSTALL 1.5" ADJUSTMENT RING  
EX MANHOLE  
EX RIM = 697.51  
PR RIM = 697.83

ST 9  
N: 6352.4  
E: 3726.3  
4' MH W/  
TY 11 F&G  
RIM 697.21  
IE 692.12

ST 10  
N: 6353.5  
E: 3761.4  
2' IN W/  
TY 11 F&G  
RIM 697.21  
IE 692.47

ST 11  
N: 6308.9  
E: 3854.0  
2' IN W/  
TY 1 F&L OL  
RIM 696.85  
IE 692.00

ST 25  
N: 6286.5  
E: 3707.1  
7' MH W/  
TY 1 F&L  
RIM 696.9  
IE 690.72

35 LF - 12" RCP  
@ 1.00%

198 LF - 12" HDPE  
@ 0.00%

19 LF - 12" RCP  
@ 1.00%

LIGHT CONTROLLER  
TO BE RELOCATED  
SEE LIGHTING PLANS  
FOR LOCATION

FES 1  
N: 6270.9  
E: 3469.8  
12" HDPE FES  
IE 695.0

FES 3  
N: 6274.4  
E: 3714.0  
12" RCP FES  
IE 694.0

FES 2  
N: 6287.0  
E: 3660.3  
12" HDPE FES  
IE 695.0

9 LF - 12" RCP  
@ 0.00%

FES 4  
N: 6253.8  
E: 3777.5  
12" RCP FES  
IE 694.0

FES 2A  
N: 6281.1  
E: 3687.8  
12" HDPE FES  
W/ 4-6"  
RESTRICTOR  
PIPE  
IE 694.0

20 LF - 12" RCP  
@ 1.00%

ST 8  
N: 6267.9  
E: 3702.8  
4' CB W/  
TY 1 F&L OL  
RIM 696.85  
IE 690.91 N  
IE 693.80 NW

16 LF - 12" RCP  
@ 0.00%

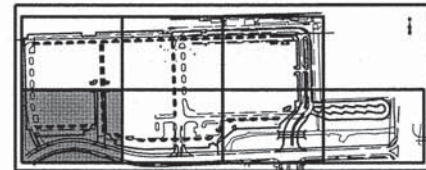
ST 8A  
N: 6265.6  
E: 3721.4  
4' CB W/  
TY 11 F&G  
WITH DUCKBILL  
BACKFLOW PREVENTER  
ON SE INVERT  
RIM 697.2  
IE 694.0

ST 8C  
N: 6246.4  
E: 3763.0  
4' CB W/  
TY 11 F&G  
RIM 696.63  
IE 694.0

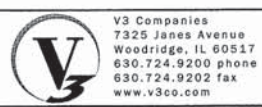
ST 8B  
N: 6259.1  
E: 3727.0  
4' CB W/  
TY 11 F&G  
RIM 696.84  
IE 694.0

38 LF - 12" RCP  
@ 0.00%

#2803  
STORM INLET



MATCH LINE SEE SHEET 46



USER NAME = #USER#  
PLOT SCALE = #SCALE#  
PLOT DATE = 3/3/2015

DESIGNED - JH  
DRAWN - EIH  
CHECKED - MJR  
DATE - 03-04-15

REVISED -  
REVISED -  
REVISED -  
REVISED -

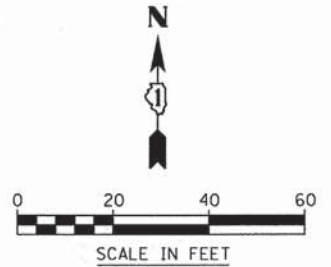
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.

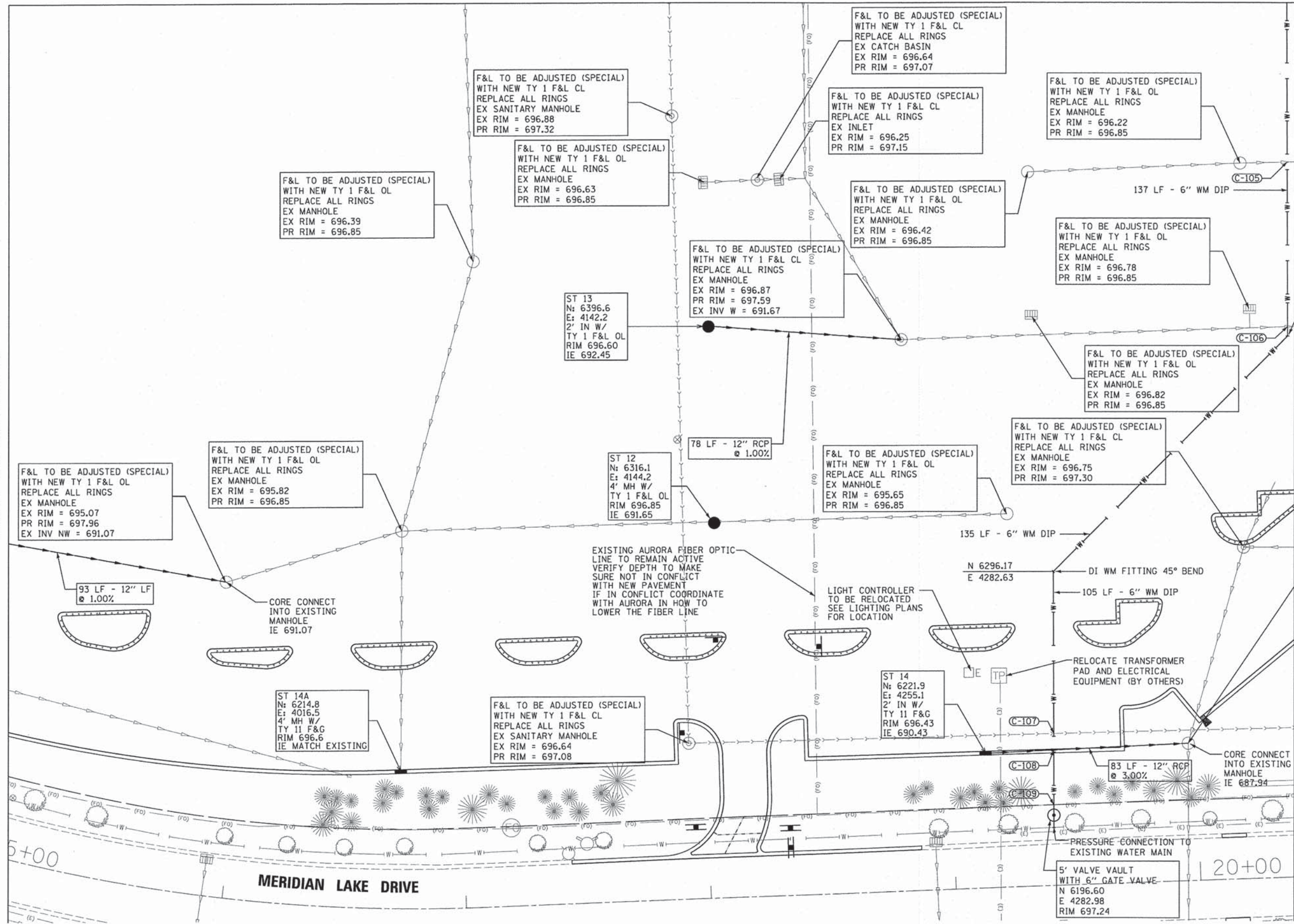
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	45
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 43



MATCH LINE SEE SHEET 45

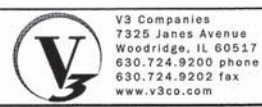
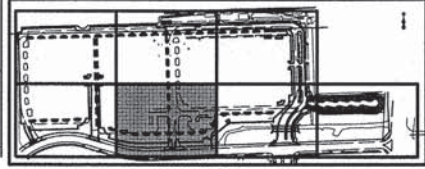
MATCH LINE SEE SHEET 47



F&L TO BE ADJUSTED (SPECIAL)  
REPLACE ALL RINGS  
EX MANHOLE  
EX RIM = 694.39  
PR RIM = 698.13  
EX INV W = 687.94

NOTE: SEE CITY OF AURORA WATER MAIN LOWERING DETAIL (EXH III-C-8).

- WATERMAIN CROSSINGS
- C-105 EX SS B/P: 691.95  
PR WM T/P: 690.45
  - C-106 EX SS B/P: 691.20  
PR WM T/P: 689.70
  - C-107 PR WM T/P: 691.13  
EX SAN T/P: 688.07
  - C-108 PR WM T/P: 696.57  
PR SS T/P: 690.76
  - C-109 EX FIBER: 695.50  
PR WM T/P: 692.50



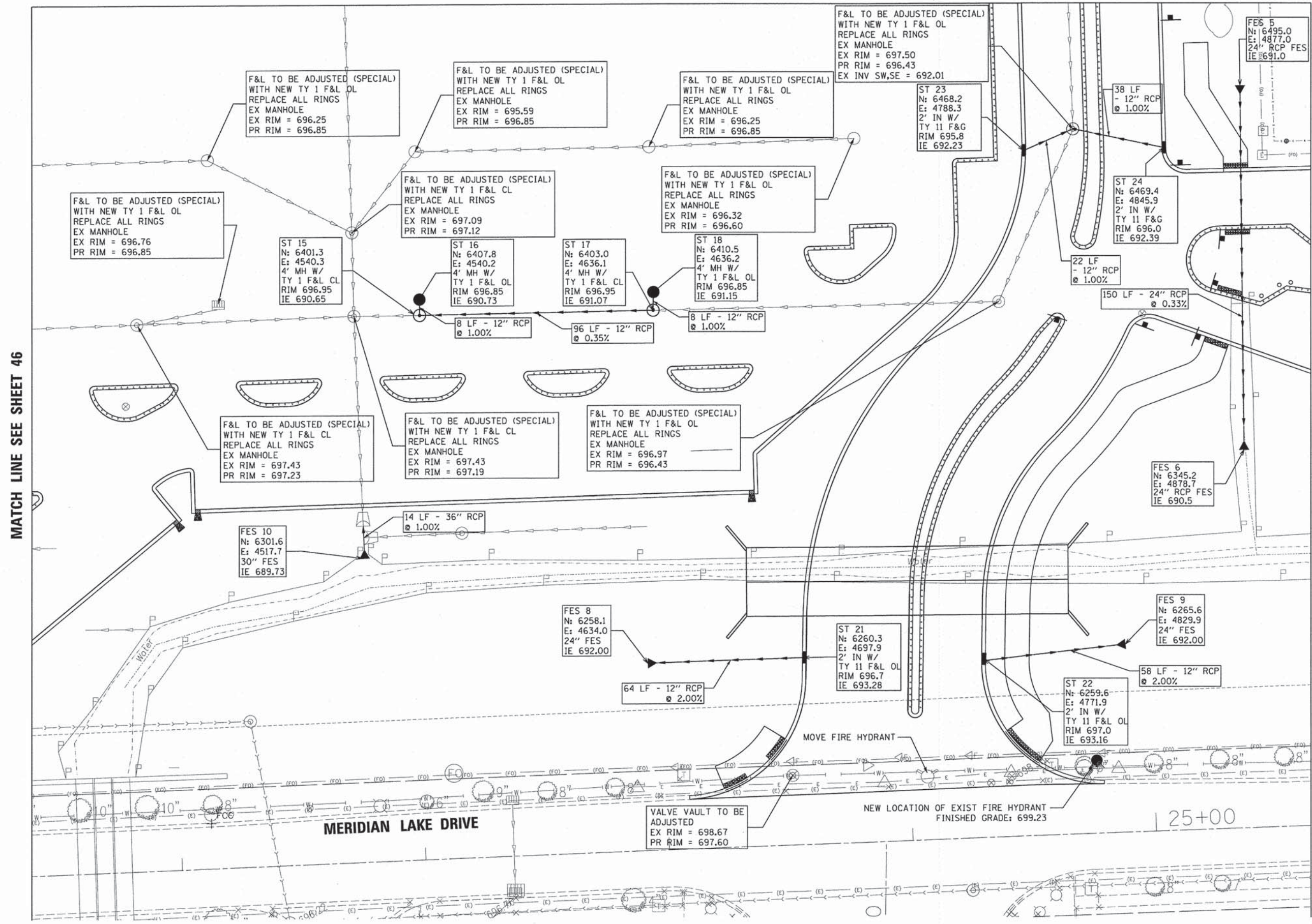
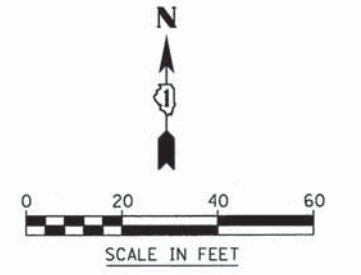
USER NAME = #USER#	DESIGNED - JH	REVISED -
DESIGNED - JH	DRAWN - EIH	REVISED -
FLDT SCALE = #SCALE#	CHECKED - MJR	REVISED -
FLDT DATE = 3/3/2015	DATE - 03-04-15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN  
SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	46
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

MATCH LINE SEE SHEET 44

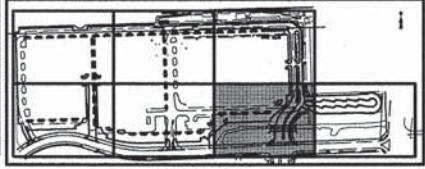


MATCH LINE SEE SHEET 46

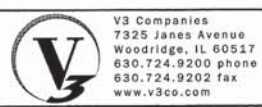
MATCH LINE SEE SHEET 48

**MERIDIAN LAKE DRIVE**

25+00



KEY MAP



USER NAME = #USER#  
 PLOT SCALE = #SCALE#  
 PLOT DATE = 3/3/2015

DESIGNED - JH  
 DRAWN - EIH  
 CHECKED - MJR  
 DATE - 03-04-15

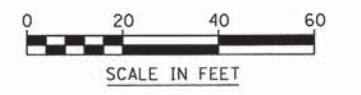
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN**

SCALE: 1"=20' SHEET 6 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	47
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



MATCH LINE SEE SHEET 47

ST 20  
N: 6465.5  
E: 5065.9  
2' IN W/  
TY 11 F&G  
RIM 694.34  
IE 690.50

VALVE VAULT TO BE  
ADJUSTED  
EX RIM = 695.26  
PR RIM = 695.69

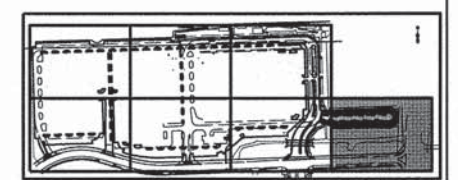
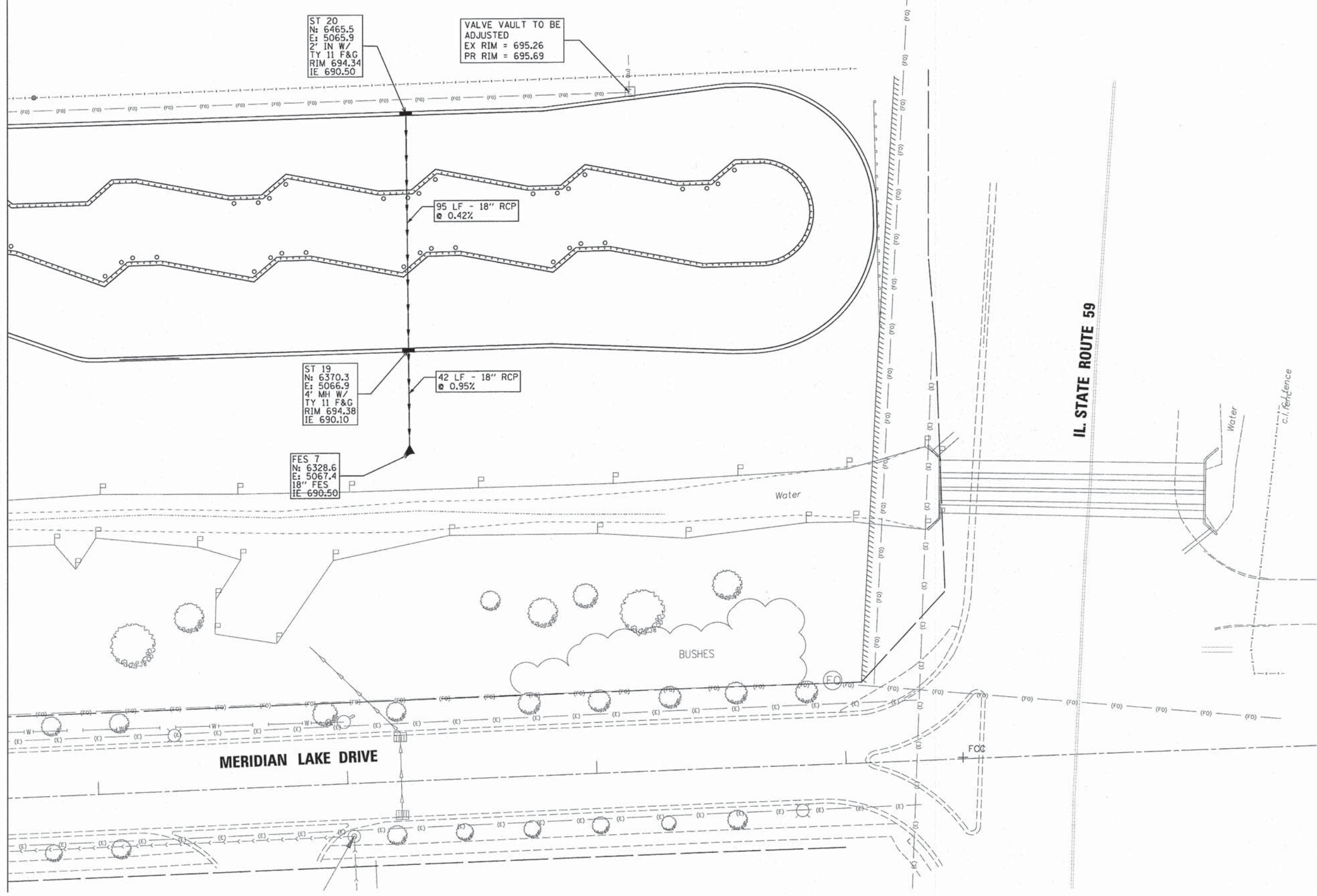
95 LF - 18" RCP  
@ 0.42%

ST 19  
N: 6370.3  
E: 5066.9  
4' MH W/  
TY 11 F&G  
RIM 694.38  
IE 690.10

42 LF - 18" RCP  
@ 0.95%

FES 7  
N: 6328.6  
E: 5067.4  
18" FES  
IE 690.50

IL. STATE ROUTE 59



KEY MAP



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = jholly  
DESIGNED - JH  
DRAWN - EIH  
CHECKED - MJR  
DATE - 03-04-15

REVISED -  
REVISED -  
REVISED -  
REVISED -

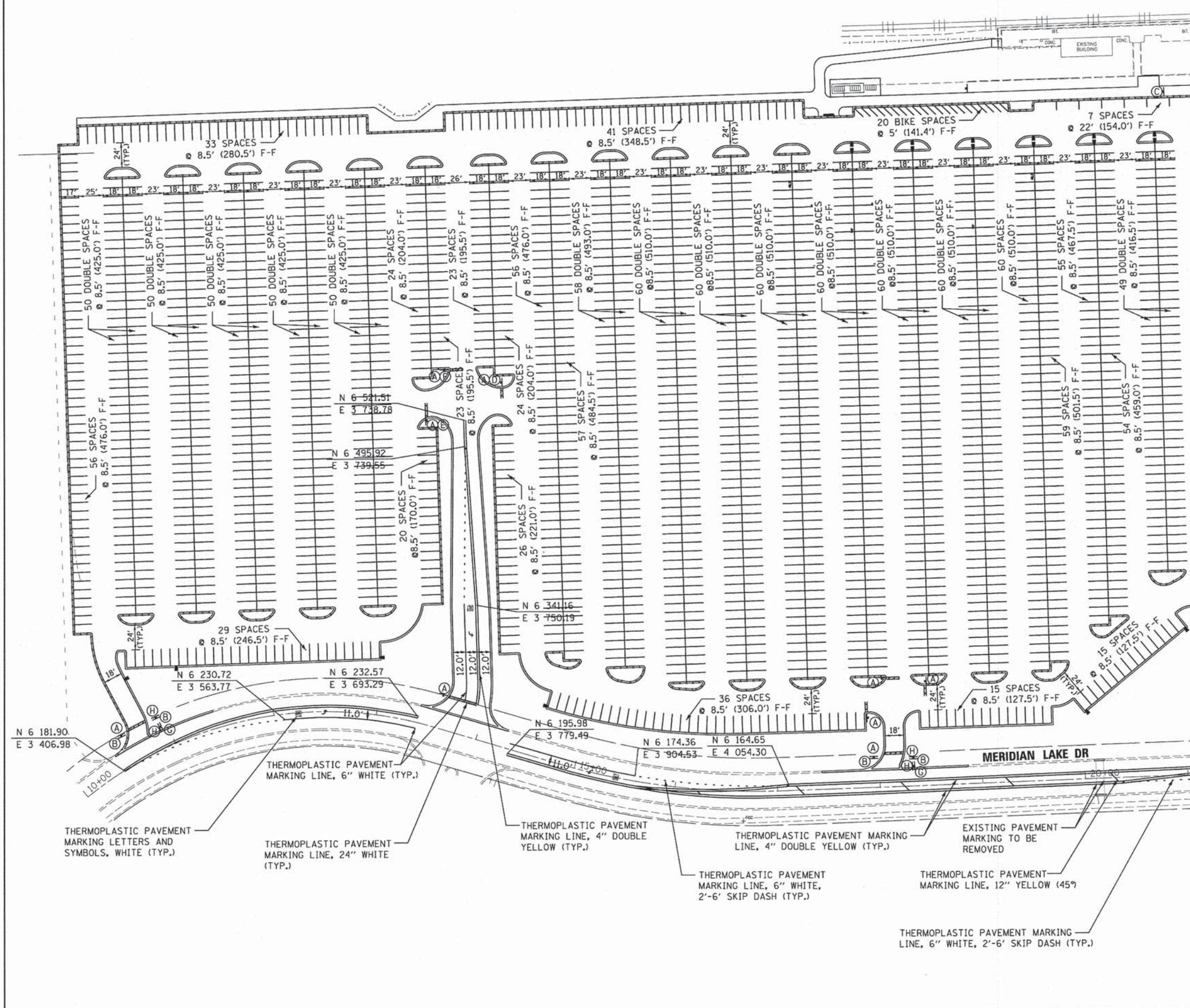
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1"=20' SHEET 7 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	48
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

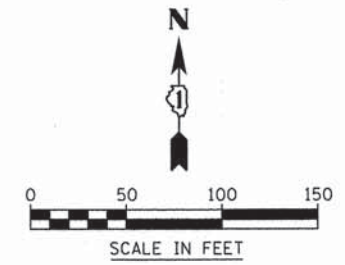




MATCHLINE SEE SHEET 50

- (A) STOP  
R1-1  
36"X36"
- (B) DO NOT ENTER  
R5-1  
36"X36"
- (C) KISS & RIDE AREA  
R9-302
- (D) TRAFFIC FROM LEFT DOES NOT STOP  
W4-4QP  
24"X12"
- (E) TRAFFIC FROM RIGHT DOES NOT STOP  
W4-4QP  
24"X12"
- (F) ONCOMING TRAFFIC DOES NOT STOP  
W4-4BP  
24"X12"
- (G) R3-1  
36"X36"
- (H) R3-2  
36"X36"
- (I) R3-1  
36"X36"  
EXCEPT BUSES  
CUSTOM  
24"X16"
- (J) AUTHORIZED VEHICLES ONLY  
R5-11  
30"X24"

NOTE:  
1. ALL PARKING LOT STRIPING SHALL BE 4" THERMOPLASTIC YELLOW UNLESS OTHERWISE NOTED.



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#  
DESIGNED - DE  
DRAWN - OB  
CHECKED - MJR  
DATE - 03-04-15

REVISED -  
REVISED -  
REVISED -  
REVISED -

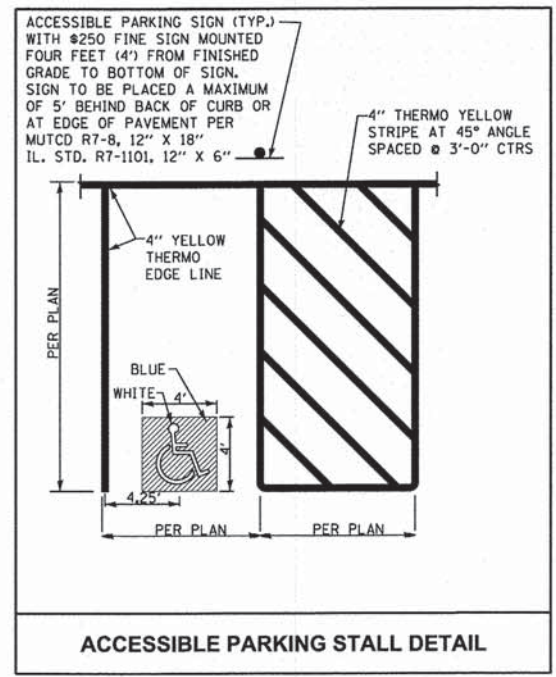
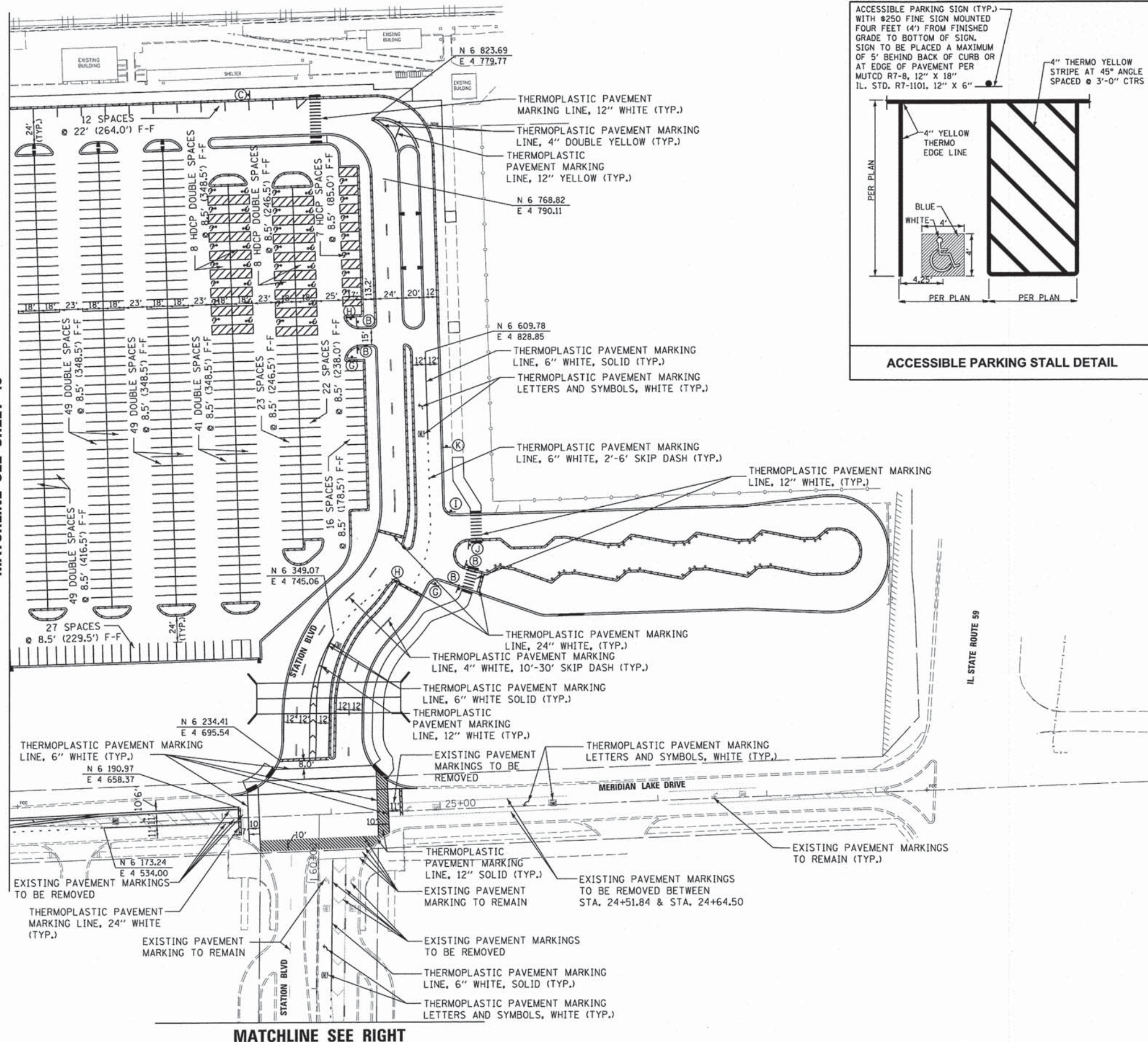
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	49
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

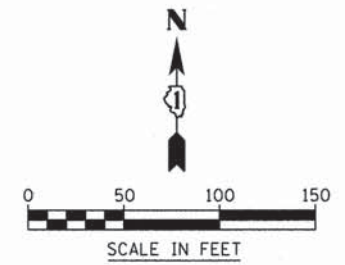
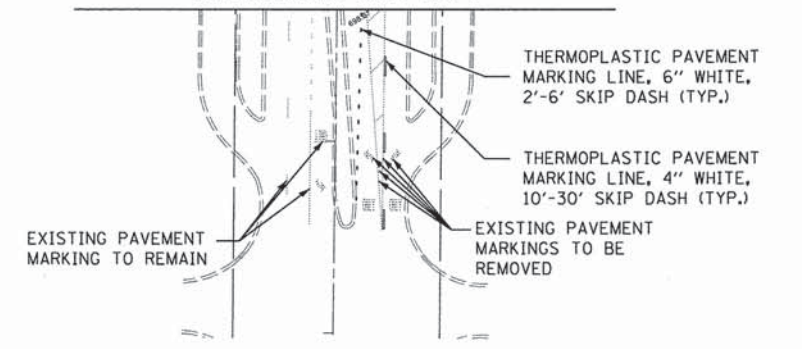
MATCHLINE SEE SHEET 49



- RESERVED PARKING  
\$ 250 FINE  
N-11
- STOP  
R1-1  
36"X36"
- DO NOT ENTER  
R5-1  
36"X36"
- 1 HOUR PARKING  
R7-23A
- TRAFFIC FROM LEFT DOES NOT STOP  
W4-4aP  
24"X12"
- TRAFFIC FROM RIGHT DOES NOT STOP  
W4-4aP  
24"X12"
- ONCOMING TRAFFIC DOES NOT STOP  
W4-4bP  
24"X12"
- NO RIGHT TURN  
R3-1  
36"X36"
- NO LEFT TURN  
R3-2  
36"X36"
- EXCEPT BUSES  
R3-1  
36"X36"
- CUSTOM  
24"X16"
- AUTHORIZED VEHICLES ONLY  
R5-11  
30"X24"
- ONLY ONLY  
R3-8  
36"X36"

NOTE:  
1. ALL PARKING LOT STRIPING SHALL BE 4" THERMOPLASTIC YELLOW UNLESS OTHERWISE NOTED.

MATCHLINE SEE LEFT



MATCHLINE SEE RIGHT



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
830.724.9200 phone  
830.724.9202 fax  
www.v3co.com

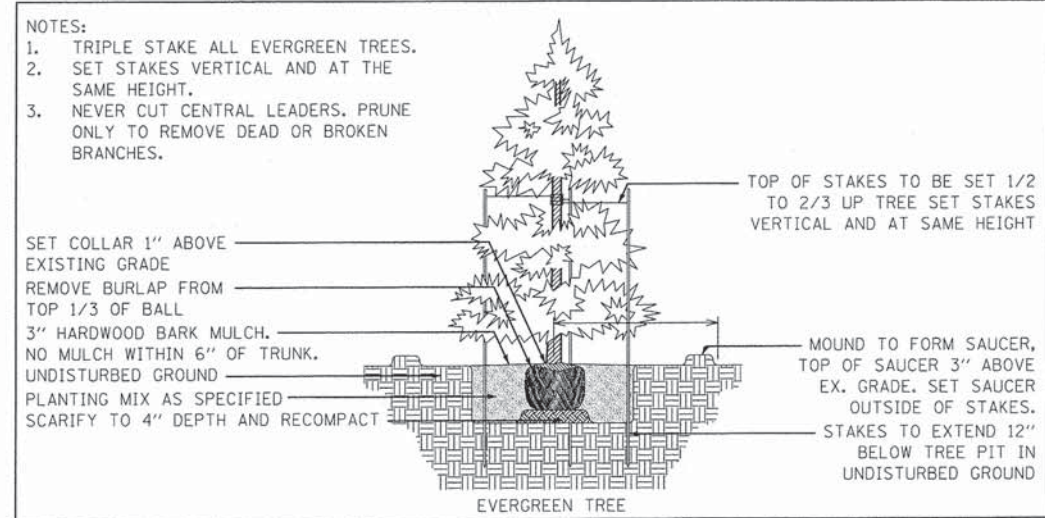
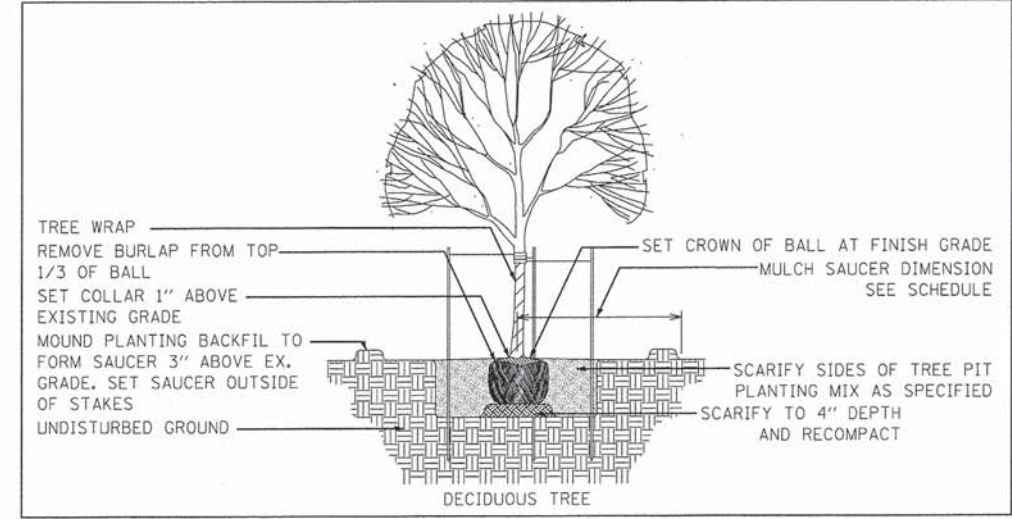
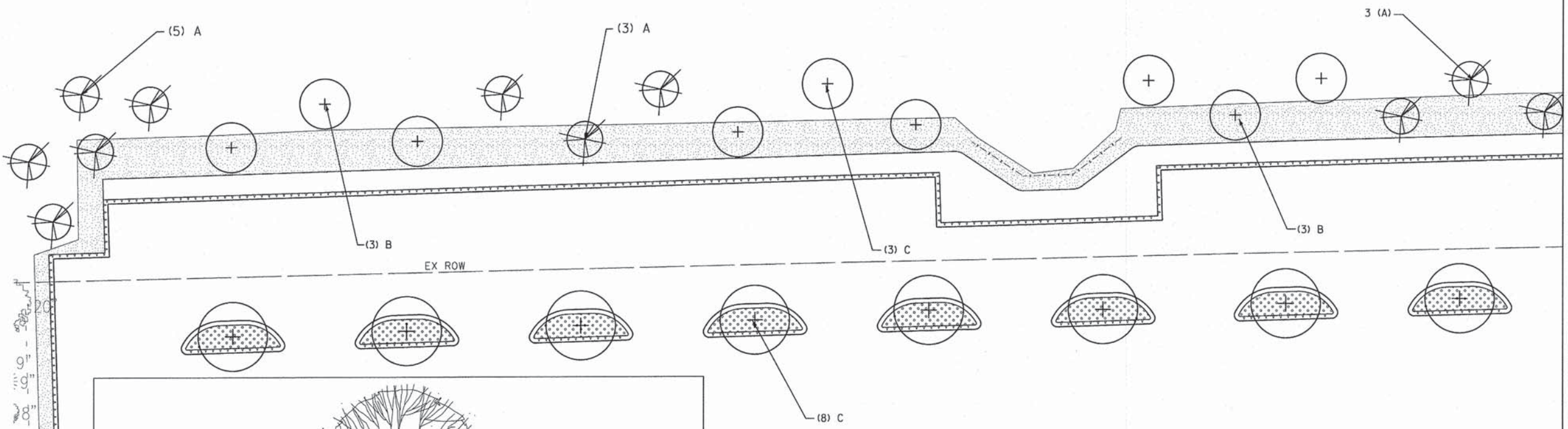
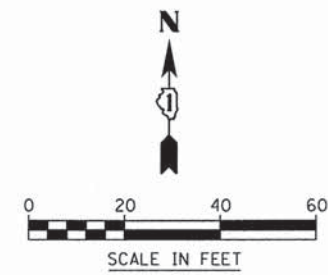
USER NAME = #USER#	DESIGNED - DE	REVISED -
PLOT SCALE = #SCALE#	DRAWN - OB	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	50
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



- NOTES:
1. TRIPLE STAKE ALL EVERGREEN TREES.
  2. SET STAKES VERTICAL AND AT THE SAME HEIGHT.
  3. NEVER CUT CENTRAL LEADERS. PRUNE ONLY TO REMOVE DEAD OR BROKEN BRANCHES.

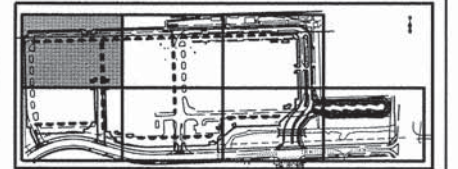
MATCH LINE SEE SHEET 52

NOTES:  
ALL TREES SHOWN TO BE PLANTED SHALL HAVE 36" OF MULCH AROUND THE TREE 3" THICK

LEGEND

- A EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED
- B TREE, ACER MIYABEI MORTON (STATE STREET MIYABEI MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED
- C TREE, ARCE TRUNCATUM (NORWEGIAN SUNSET MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED
- D TREE, MALUS RED JEWEL (RED JEWEL CRAB APPLE), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED
- E TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED
- F TREE, TILIA CORDATA (LITTLE LEAF LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED

- SEED CLASS, 1A TOPSOIL FURNISH AND PLACE, 6"
- PRAIRIE DROPSEED PLUGS 12" O.C. TOPSOIL FURNISH AND PLACE, 6"
- SEED CLASS, 4A TOPSOIL FURNISH AND PLACE, 6"
- SEEDING, MESIC PRAIRIE SEE SEED MIX LIST FOR MORE INFO. TOPSOIL FURNISH AND PLACE, 6"
- WETLAND MITIGATION PLANT/ SEEDING MIX SEE SEED MIX LIST FOR MORE INFO. TOPSOIL FURNISH AND PLACE, 6"
- EMERGENT MARSH PLANTING PLUGS SEE PLUG LIST FOR MORE INFO. TOPSOIL FURNISH AND PLACE, 6"



MATCH LINE SEE SHEET 54



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

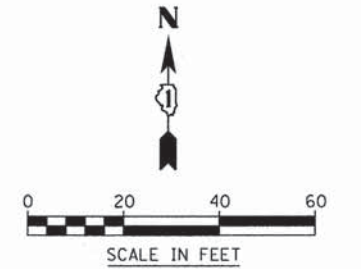
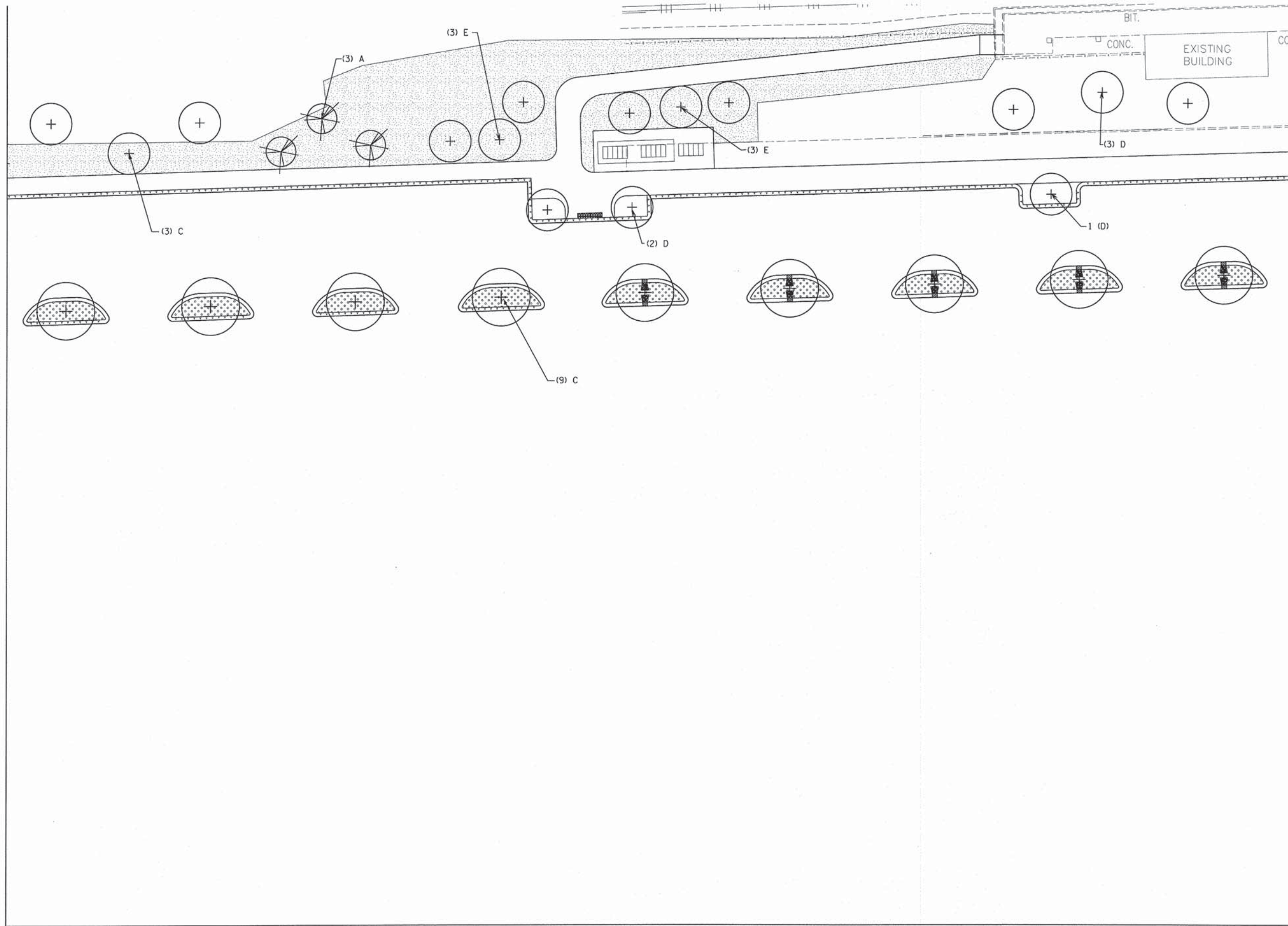
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1"=20' SHEET 1 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	51
			DUPAGE	CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				

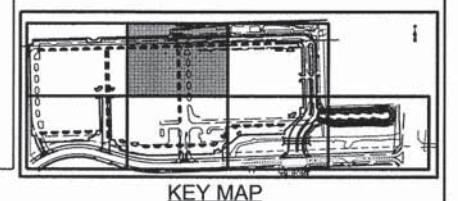
MATCH LINE SEE SHEET 51



NOTES:  
ALL TREES SHOWN TO BE PLANTED SHALL HAVE 36" OF MULCH AROUND THE TREE 3" THICK

- LEGEND
- A EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED
  - B TREE, ACER MIYABEI MORTON (STATE STREET MIYABE MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED
  - C TREE, ARCE TRUNCATUM (NORWEGIAN SUNSET MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED
  - D TREE, MALUS RED JEWEL (RED JEWEL CRAB APPLE), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED
  - E TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED
  - F TREE, TILIA CORDATA (LITTLE LEAF LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED

- SEED CLASS, 1A TOPSOIL FURNISH AND PLACE, 6"
- PRAIRIE DROPSEED PLUGS 12" O.C. TOPSOIL FURNISH AND PLACE, 6"
- SEED CLASS, 4A TOPSOIL FURNISH AND PLACE, 6"
- SEEDING, MESC PRAIRIE SEE SEED MIX LIST FOR MORE INFO TOPSOIL FURNISH AND PLACE, 6"
- WETLAND MITIGATION PLANT/ SEEDING MIX SEE SEED MIX LIST FOR MORE INFO TOPSOIL FURNISH AND PLACE, 6"
- EMERGENT MARSH PLANTING PLUGS SEE PLUG LIST FOR MORE INFO TOPSOIL FURNISH AND PLACE, 6"



MATCH LINE SEE SHEET 55



USER NAME = #USER#  
PLOT SCALE = #SCALE#  
PLOT DATE = 3/3/2015

DESIGNED - JH  
DRAWN - JH  
CHECKED - MJR  
DATE - 03-04-15

REVISED -  
REVISED -  
REVISED -  
REVISED -

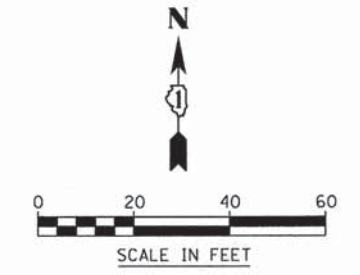
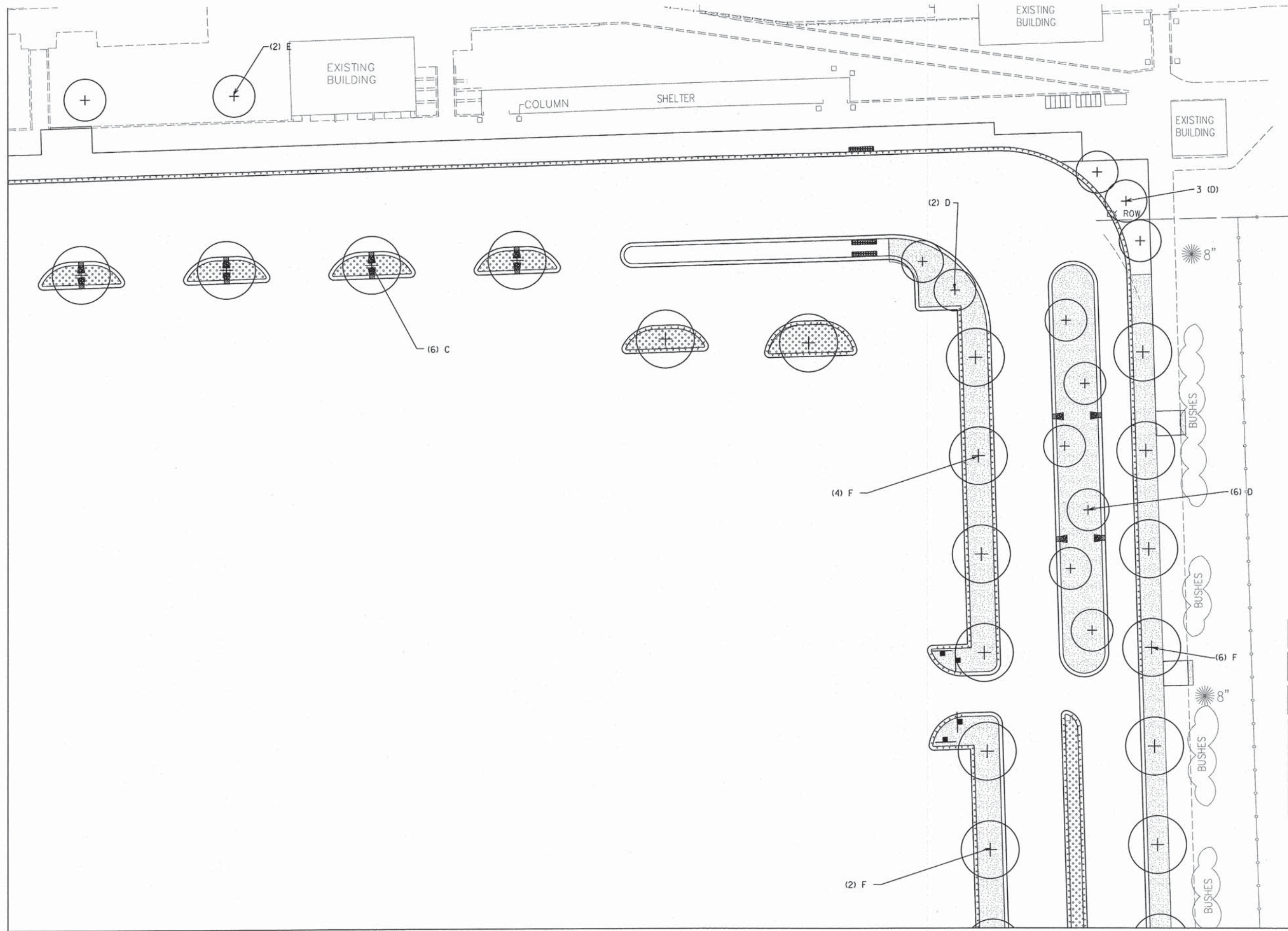
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1"=20' SHEET 2 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	52
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 52

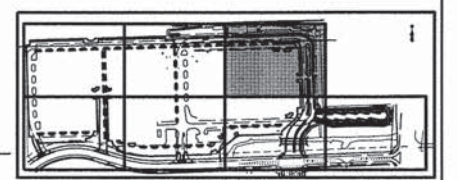


NOTES:  
ALL TREES SHOWN TO BE PLANTED SHALL HAVE 36" OF MULCH AROUND THE TREE 3" THICK

LEGEND

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- D TREE, MALUS RED JEWEL (RED JEWEL CRAB APPLE), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED
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- F TREE, TILIA CORDATA (LITTLE LEAF LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED

- SEED CLASS, 1A TOPSOIL FURNISH AND PLACE, 6"
- PRAIRIE DROPSEED PLUGS 12" O.C. TOPSOIL FURNISH AND PLACE, 6"
- SEED CLASS, 4A TOPSOIL FURNISH AND PLACE, 6"
- SEEDING, MESIC PRAIRIE SEE SEED MIX LIST FOR MORE INFO TOPSOIL FURNISH AND PLACE, 6"
- WETLAND MITIGATION PLANT/ SEEDING MIX SEE SEED MIX LIST FOR MORE INFO TOPSOIL FURNISH AND PLACE, 6"
- EMERGENT MARSH PLANTING PLUGS SEE PLUG LIST FOR MORE INFO TOPSOIL FURNISH AND PLACE, 6"



MATCH LINE SEE SHEET 56



USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

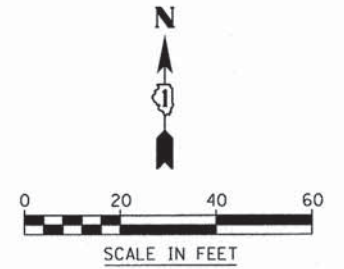
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1"=20' SHEET 3 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	53
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

MATCH LINE SEE SHEET 51

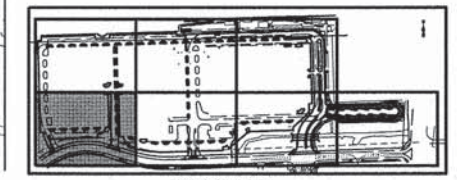


NOTES:  
ALL TREES SHOWN TO BE PLANTED SHALL HAVE 36" OF MULCH AROUND THE TREE 3" THICK

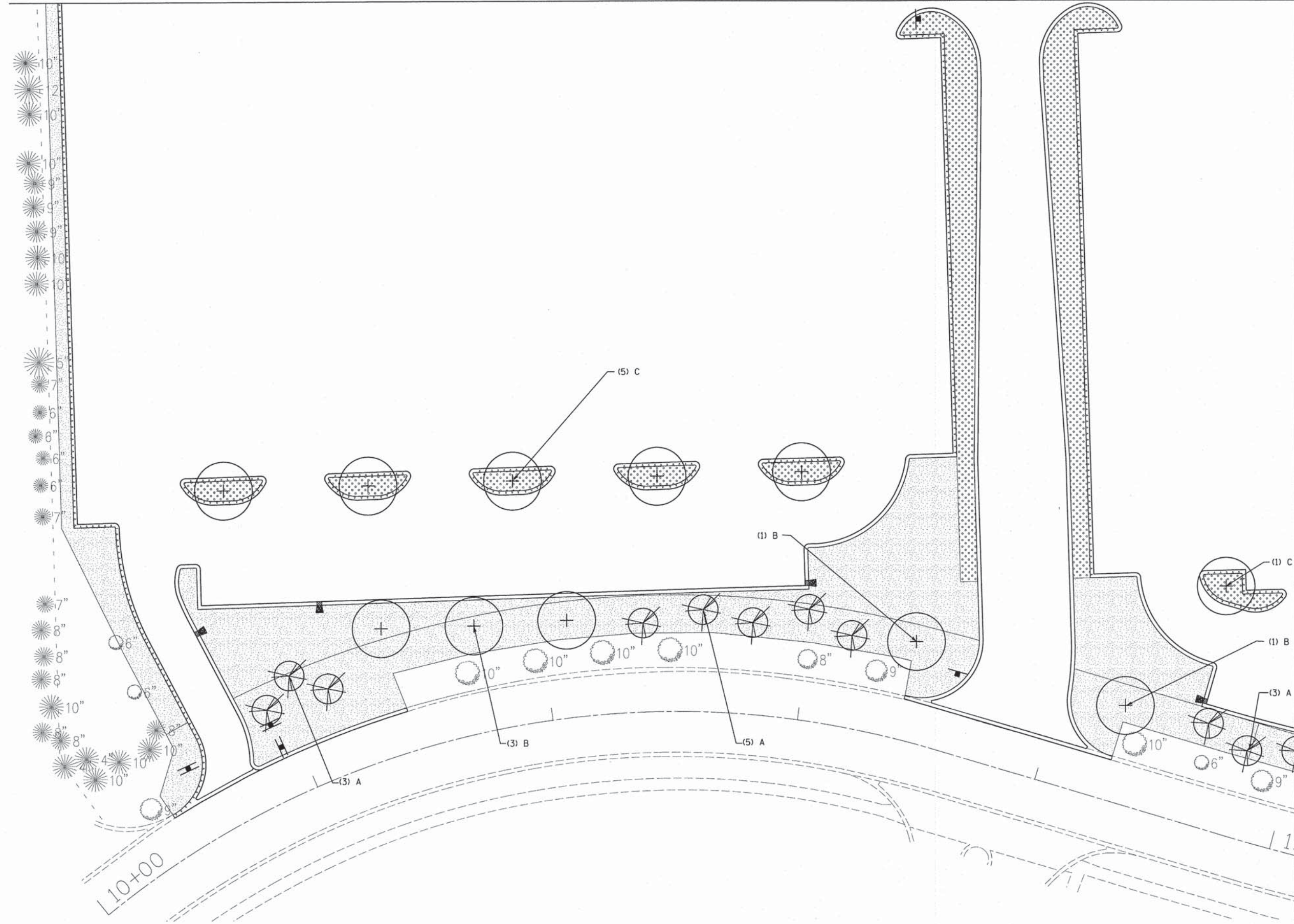
MATCH LINE SEE SHEET 55

- LEGEND**
- A EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED
  - B TREE, ACER MIYABEI MORTON (STATE STREET MIYABE MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED
  - C TREE, ARCE TRUNCATUM (NORWEGIAN SUNSET MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED
  - D TREE, MALUS RED JEWEL (RED JEWEL CRAB APPLE), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED
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  - F TREE, TILIA CORDATA (LITTLE LEAF LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED

- SEED CLASS, 1A  
TOPSOIL FURNISH AND PLACE, 6"
- PRAIRIE DROPSEED PLUGS 12" O.C.  
TOPSOIL FURNISH AND PLACE, 6"
- SEED CLASS, 4A  
TOPSOIL FURNISH AND PLACE, 6"
- SEEDING, MESIC PRAIRIE SEE SEED MIX LIST FOR MORE INFO  
TOPSOIL FURNISH AND PLACE, 6"
- WETLAND MITIGATION PLANT/SEEDING MIX SEE SEED MIX LIST FOR MORE INFO  
TOPSOIL FURNISH AND PLACE, 6"
- EMERGENT MARSH PLANTING PLUGS SEE PLUG LIST FOR MORE INFO  
TOPSOIL FURNISH AND PLACE, 6"



KEY MAP



USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

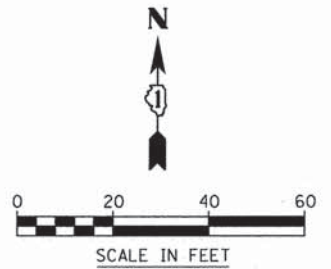
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN**

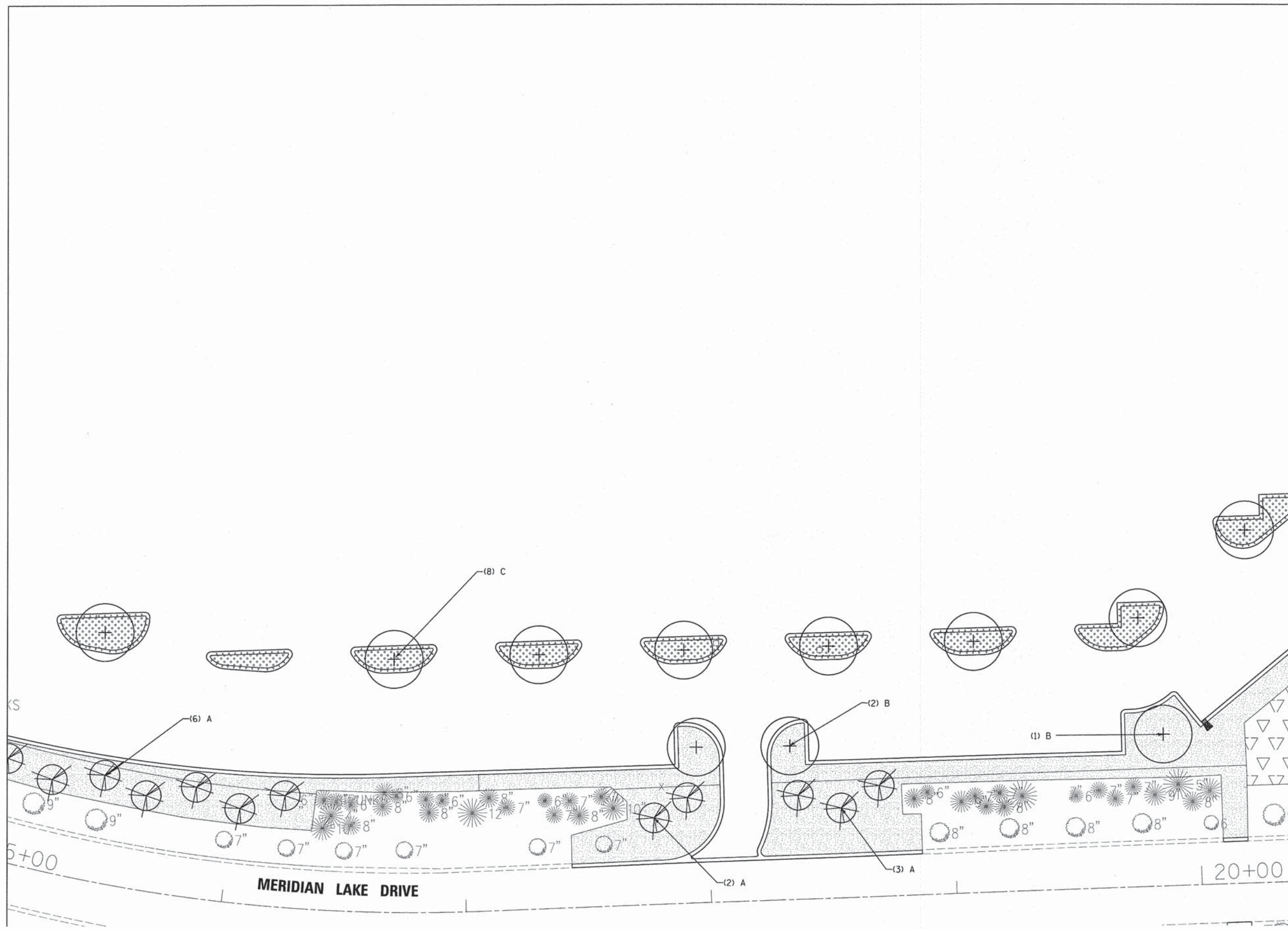
SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	54
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 52



MATCH LINE SEE SHEET 54

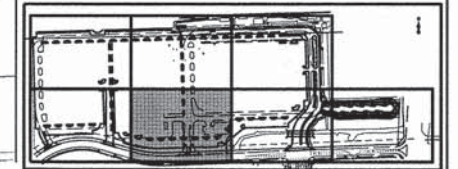


MATCH LINE SEE SHEET 56

NOTES:  
ALL TREES SHOWN TO BE PLANTED SHALL HAVE 36" OF MULCH AROUND THE TREE 3" THICK

- LEGEND
- A EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED
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  - C TREE, ARCE TRUNCATUM (NORWEGIAN SUNSET MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED
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- SEED CLASS, 1A  
TOPSOIL FURNISH AND PLACE, 6"
- PRAIRIE DROPSEED PLUGS 12" O.C.  
TOPSOIL FURNISH AND PLACE, 6"
- SEED CLASS, 4A  
TOPSOIL FURNISH AND PLACE, 6"
- SEEDING, MESIC PRAIRIE SEE SEED MIX LIST FOR MORE INFO  
TOPSOIL FURNISH AND PLACE, 6"
- WETLAND MITIGATION PLANT/SEEDING MIX SEE SEED MIX LIST FOR MORE INFO  
TOPSOIL FURNISH AND PLACE, 6"
- EMERGENT MARSH PLANTING PLUGS SEE PLUG LIST FOR MORE INFO  
TOPSOIL FURNISH AND PLACE, 6"



KEY MAP



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#	DESIGNED - JH	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JH	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

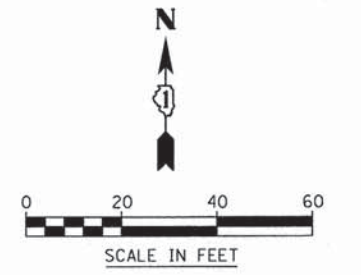
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

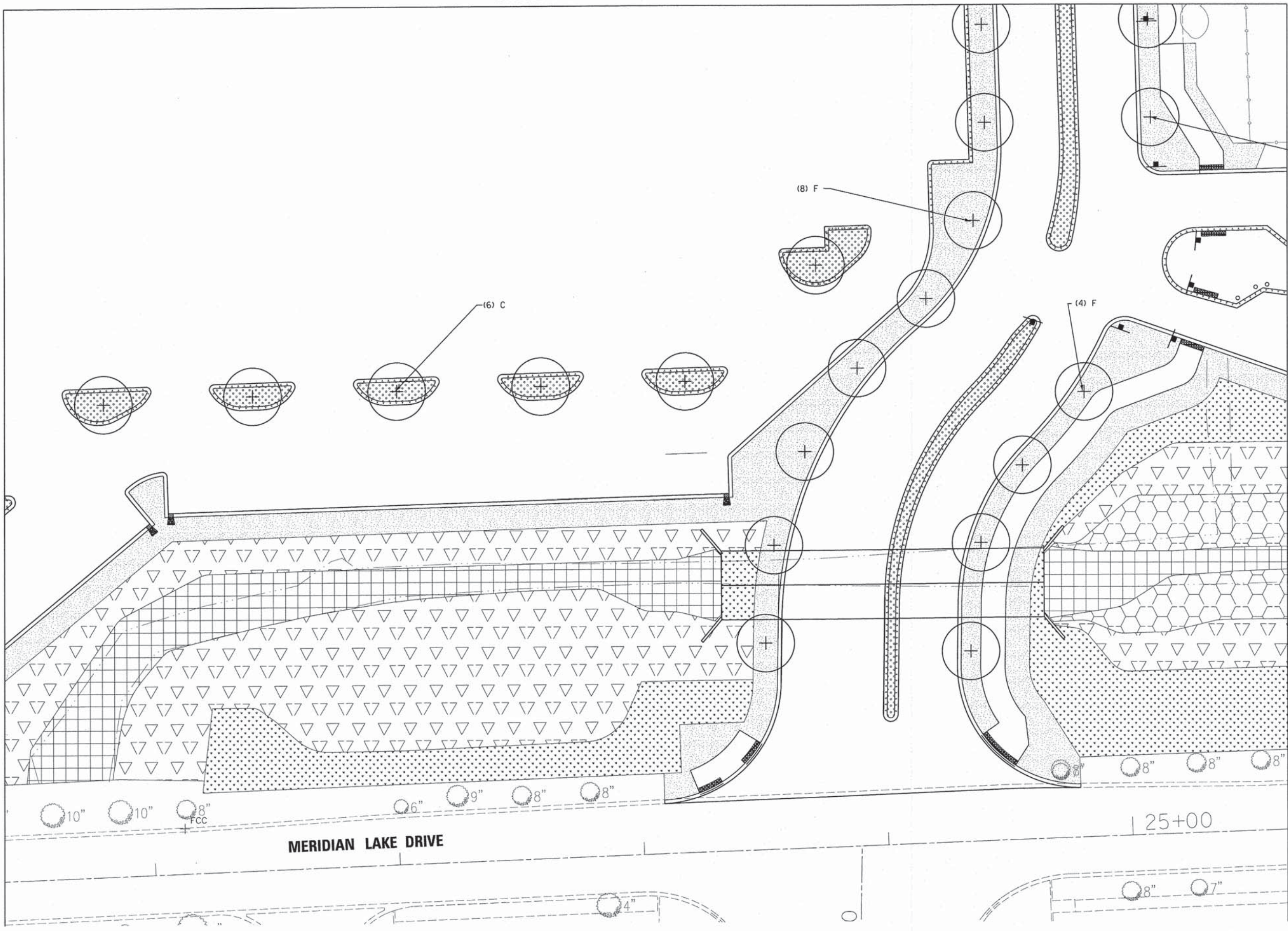
SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	55
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCH LINE SEE SHEET 53



MATCH LINE SEE SHEET 55

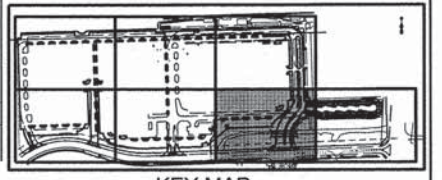


MATCH LINE SEE SHEET 57

NOTES:  
ALL TREES SHOWN TO BE PLANTED SHALL HAVE 36" OF MULCH AROUND THE TREE 3" THICK

- LEGEND
- A EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED
  - B TREE, ACER MIYABEI MORTON (STATE STREET MIYABEI MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED
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  - D TREE, MALUS RED JEWEL (RED JEWEL CRAB APPLE), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED
  - E TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED
  - F TREE, TILIA CORDATA (LITTLE LEAF LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED

- SEED CLASS, 1A  
TOPSOIL FURNISH AND PLACE, 6"
- PRAIRIE DROPSEED PLUGS 12" O.C.  
TOPSOIL FURNISH AND PLACE, 6"
- SEED CLASS, 4A  
TOPSOIL FURNISH AND PLACE, 6"
- SEEDING, MESIC PRAIRIE SEE  
SEED MIX LIST FOR MORE INFO  
TOPSOIL FURNISH AND PLACE, 6"
- WETLAND MITIGATION PLANT/  
SEEDING MIX SEE SEED MIX LIST  
FOR MORE INFO  
TOPSOIL FURNISH AND PLACE, 6"
- EMERGENT MARSH PLANTING  
PLUGS SEE PLUG LIST  
FOR MORE INFO  
TOPSOIL FURNISH AND PLACE, 6"



KEY MAP

V3 Companies  
7325 Janes Avenue  
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630.724.9200 phone  
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www.v3co.com

USER NAME = #USER#  
DESIGNED - JH  
DRAWN - JH  
CHECKED - MJR  
DATE - 03-04-15

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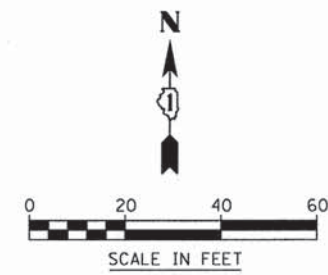
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

SCALE: 1"=20' SHEET 6 OF 7 SHEETS STA. TO STA.

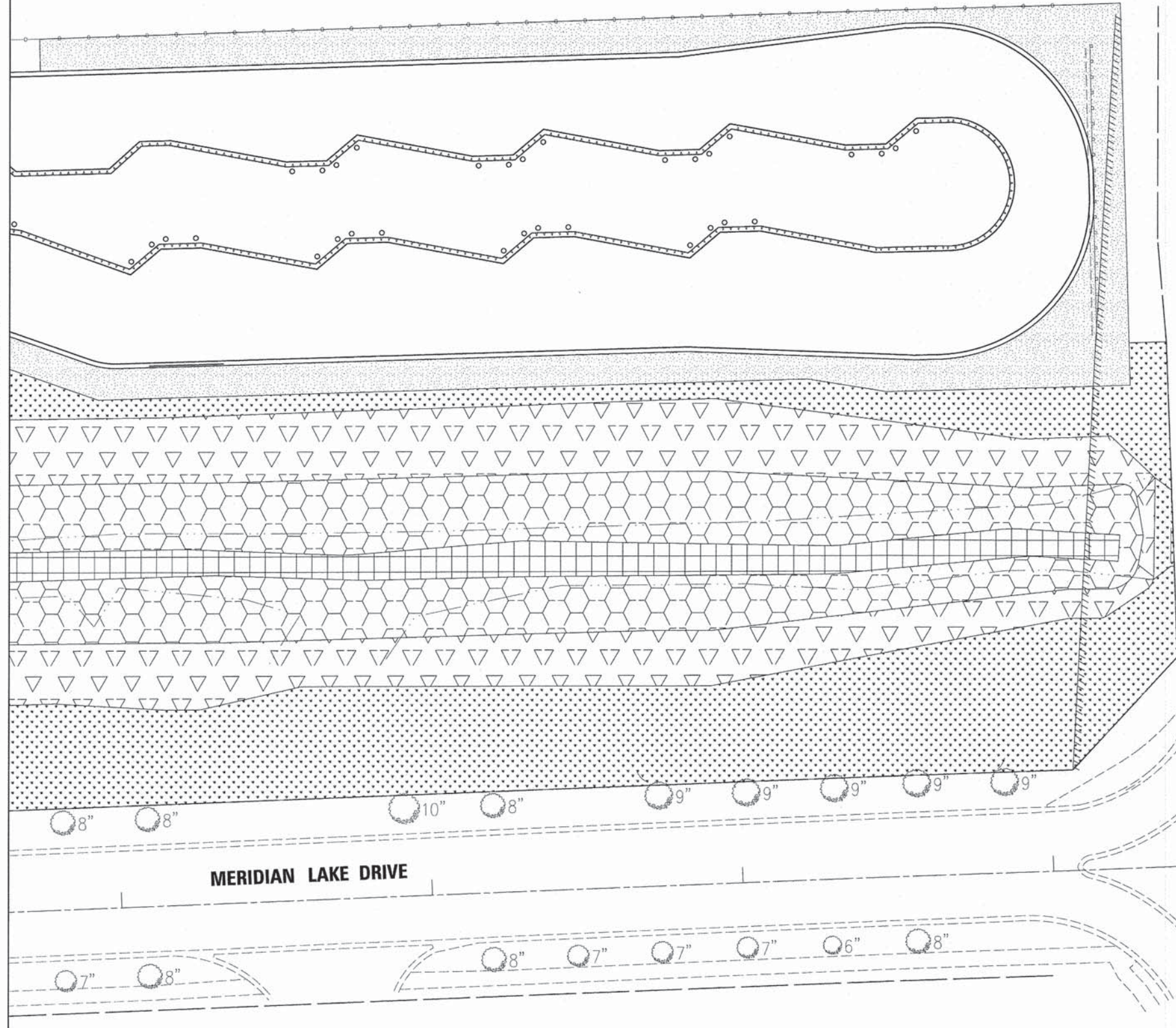
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	56
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				





MATCH LINE SEE SHEET 56

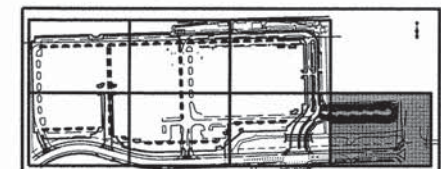
IL. STATE ROUTE 59



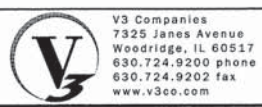
**NOTES:**  
 ALL TREES SHOWN TO BE PLANTED SHALL HAVE 36" OF MULCH AROUND THE TREE 3" THICK

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KEY MAP



USER NAME = #USER#  
 PLOT SCALE = #SCALE#  
 PLOT DATE = 3/3/2015

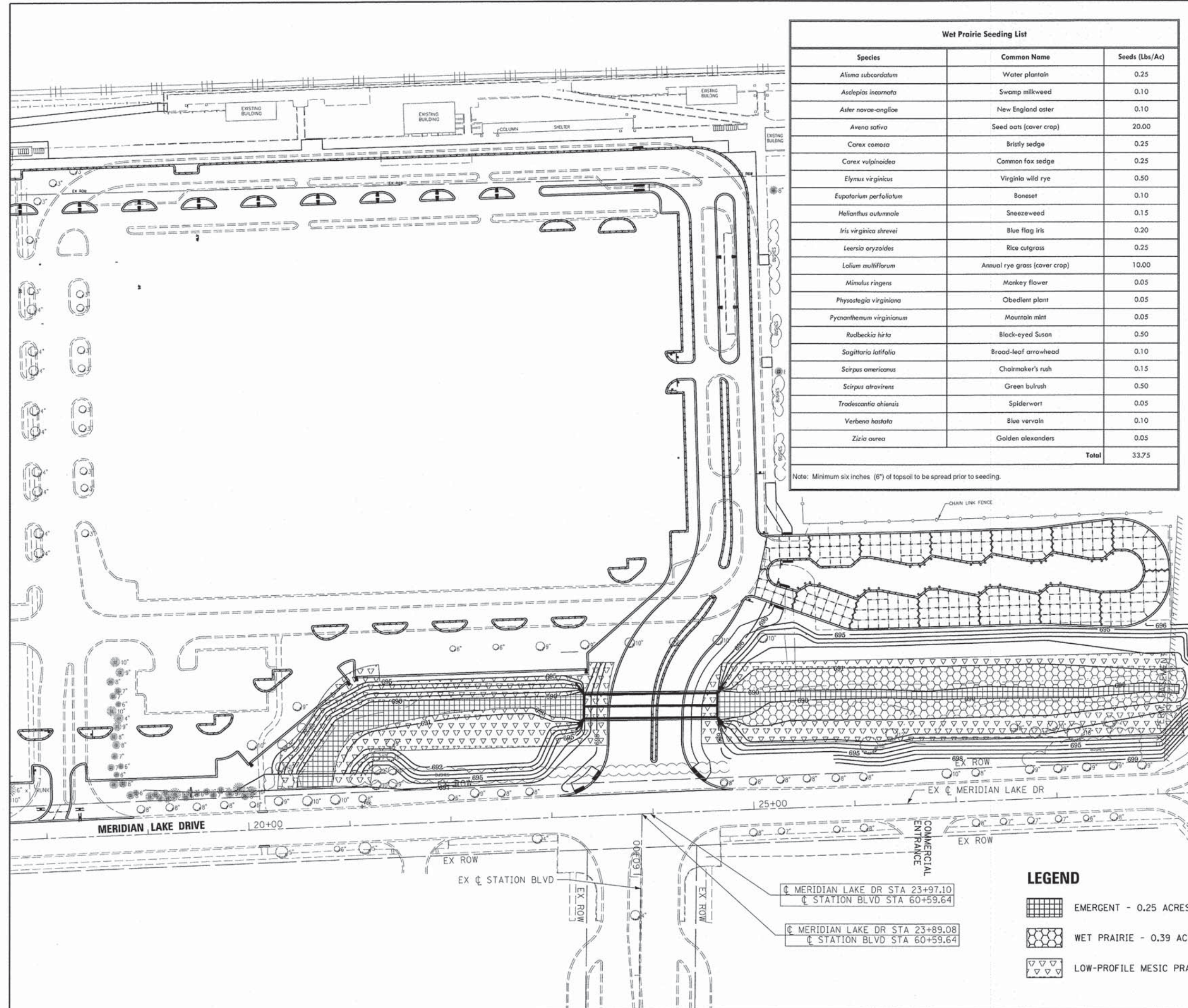
DESIGNED - JH  
 DRAWN - JH  
 CHECKED - MJR  
 DATE - 03-04-15

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN  
 SCALE: 1"=20' SHEET 7 OF 7 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	57
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				



Wet Prairie Seeding List		
Species	Common Name	Seeds (Lbs/Ac)
<i>Alisma subcordatum</i>	Water plantain	0.25
<i>Asclepias incarnata</i>	Swamp milkweed	0.10
<i>Aster novae-angliae</i>	New England aster	0.10
<i>Avena sativa</i>	Seed oats (cover crop)	20.00
<i>Carex comosa</i>	Bristly sedge	0.25
<i>Carex vulpinoidea</i>	Common fox sedge	0.25
<i>Elymus virginicus</i>	Virginia wild rye	0.50
<i>Eupatorium perfoliatum</i>	Boneset	0.10
<i>Helianthus autumnale</i>	Sneezeweed	0.15
<i>Iris virginica shrevei</i>	Blue flag iris	0.20
<i>Leersia oryzoides</i>	Rice cutgrass	0.25
<i>Lolium multiflorum</i>	Annual rye grass (cover crop)	10.00
<i>Mimulus ringens</i>	Monkey flower	0.05
<i>Physostegia virginiana</i>	Obedient plant	0.05
<i>Pycnanthemum virginianum</i>	Mountain mint	0.05
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.50
<i>Sagittaria latifolia</i>	Brood-leaf arrowhead	0.10
<i>Scirpus americanus</i>	Chairmaker's rush	0.15
<i>Scirpus atrovirens</i>	Green bulrush	0.50
<i>Tradescantia ahimensis</i>	Spiderwort	0.05
<i>Verbena hastata</i>	Blue vervain	0.10
<i>Zizia aurea</i>	Golden alexanders	0.05
<b>Total</b>		<b>33.75</b>

Note: Minimum six inches (6") of topsoil to be spread prior to seeding.

Low-Profile Mesic Prairie Seeding List		
Species	Common Name	Seeds (Lbs/Ac)
<i>Allium cernuum</i>	Nodding wild onion	0.05
<i>Andropogon scoparius</i>	Little bluestem	5.00
<i>Asclepias tuberosa</i>	Butterfly weed	0.05
<i>Aster azureus</i>	Sky blue aster	0.05
<i>Aster plarimicoides</i>	White aster	0.10
<i>Avena sativa</i>	Seed oats (cover crop)	40.00
<i>Bouteloua curtipendula</i>	Side-oats grama	2.00
<i>Coreopsis palmata</i>	Prairie coreopsis	0.05
<i>Echinacea purpurea</i>	Purple coneflower	0.25
<i>Elymus canadensis</i>	Canada wild rye	2.00
<i>Eryngium yuccifolium</i>	Rattlesnake master	0.10
<i>Liatris pycnostachya</i>	Prairie blazing star	0.05
<i>Lolium multiflorum</i>	Annual rye (cover crop)	10.00
<i>Monarda fistulosa</i>	Wild bergamot	0.05
<i>Panicum virgatum</i>	Prairie switchgrass	1.00
<i>Petalostemum purpureum</i>	Purple prairie clover	0.25
<i>Phleum pratense</i>	Timothy (cover crop)	2.00
<i>Ratibida pinnata</i>	Yellow coneflower	0.50
<i>Rudbeckia hirta</i>	Black-eyed Susan	0.50
<i>Solidago rigida</i>	Stiff goldenrod	0.50
<i>Tradescantia ahimensis</i>	Common spiderwort	0.05
<i>Verbena stricta</i>	Hoary vervain	0.20
<b>Total</b>		<b>64.75</b>

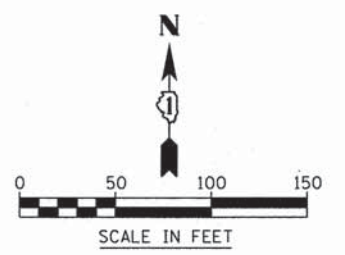
Notes:  
 1. Minimum six inches (6") of topsoil to be spread on slopes prior to prairie seeding.  
 2. Prairie seeding zone to be covered with erosion blankets within 48 hours after seeding.

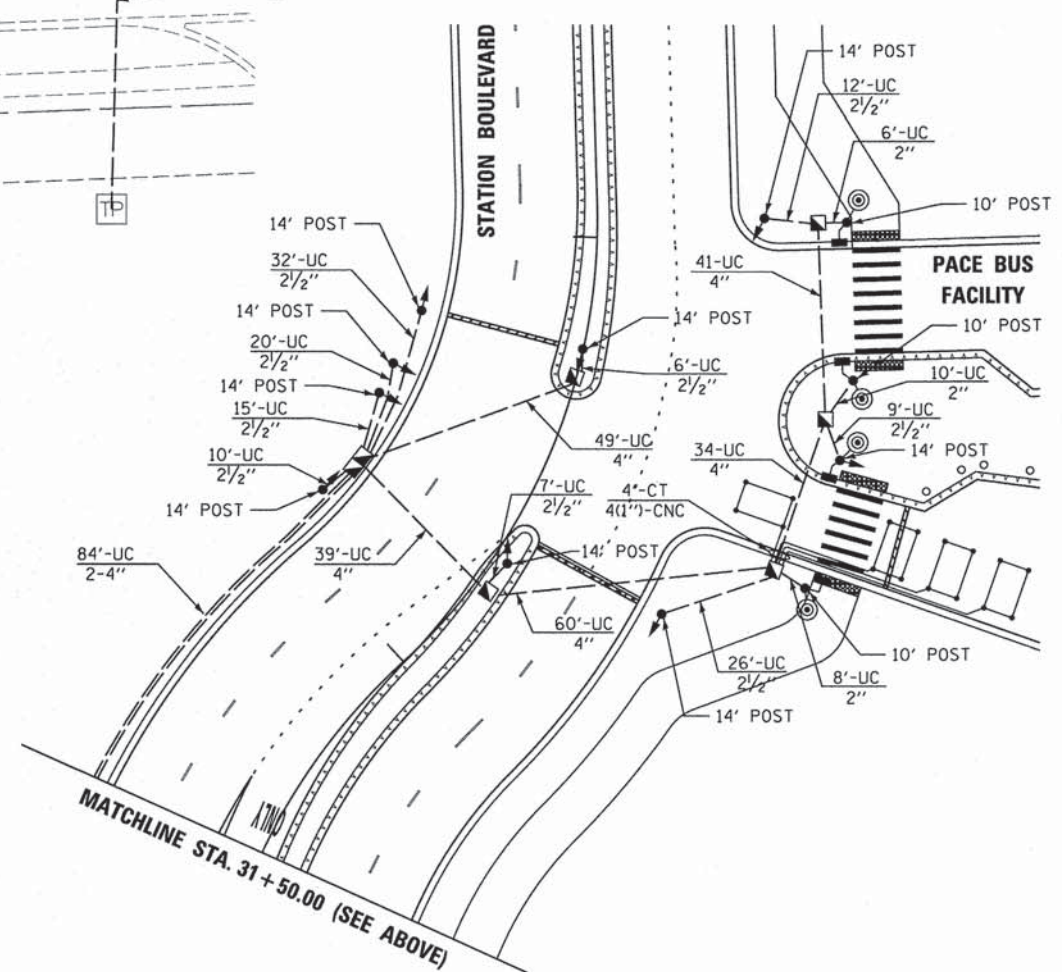
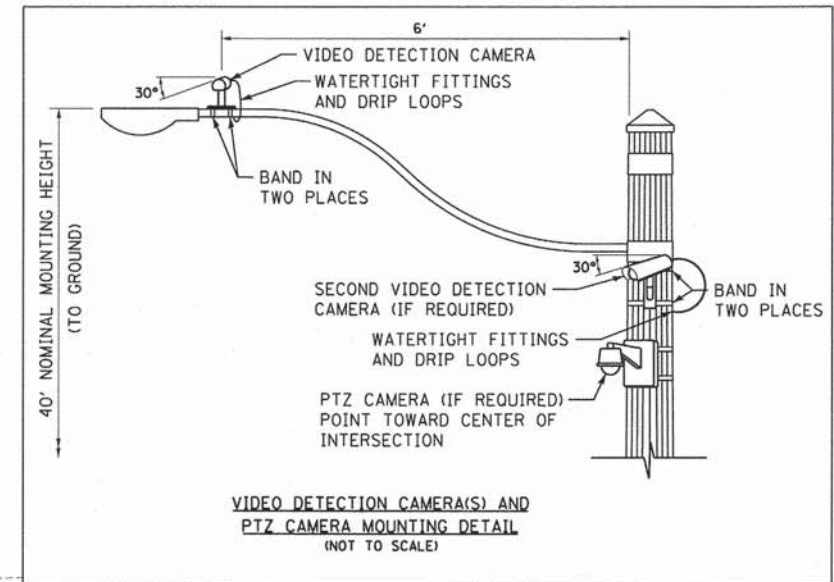
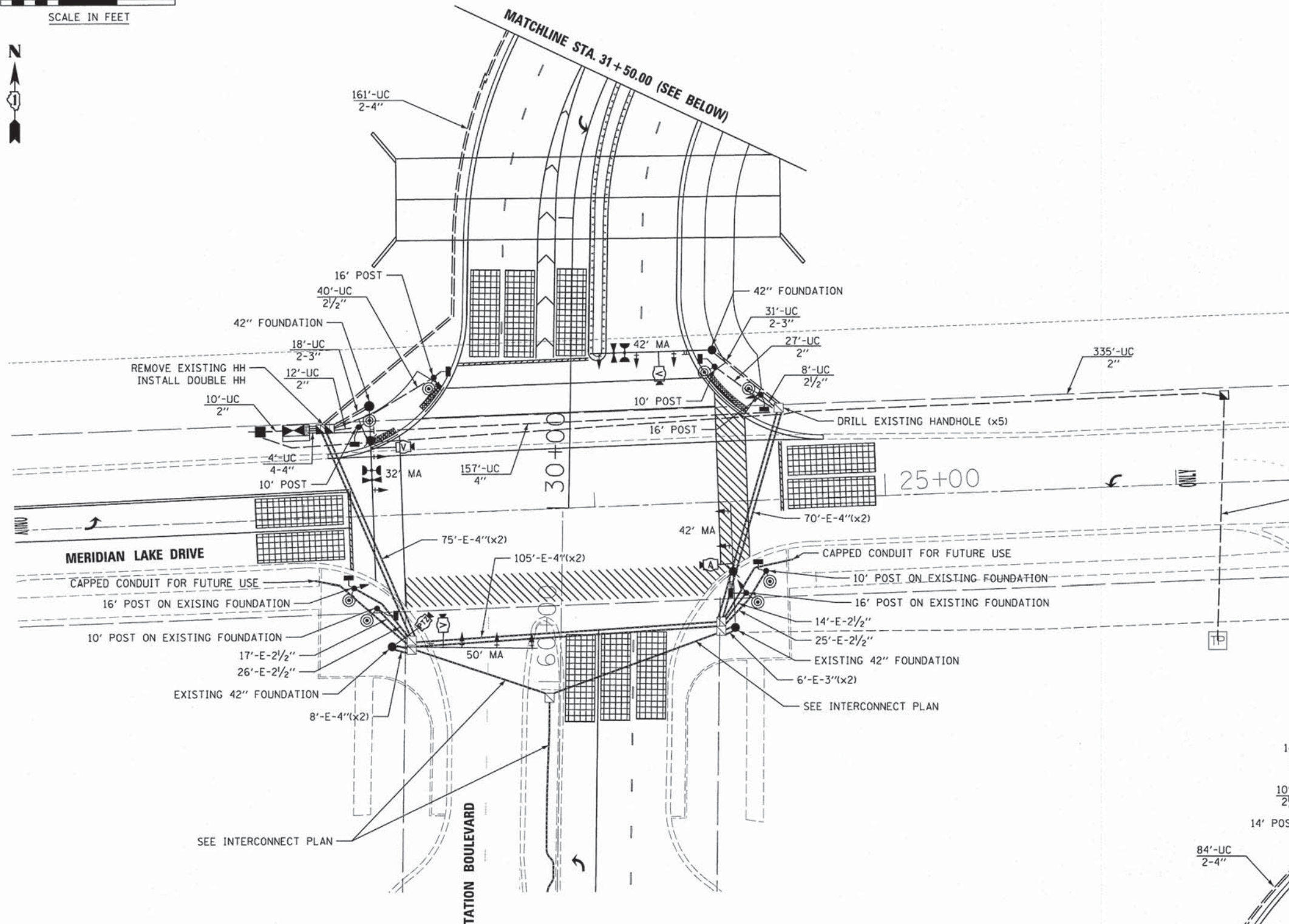
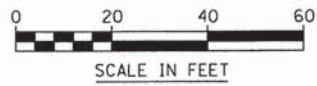
Emergent Marsh Planting List		
Species	Common Name	Plants/Acre
<i>Acorus calamus</i>	Sweet flag	150
<i>Iris virginica shrevei</i>	Blue flag iris	200
<i>Pantederia cordata</i>	Pickersweed	75
<i>Sagittaria latifolia</i>	Arrowhead	200
<i>Scirpus acutus</i>	Hardstem bulrush	300
<i>Scirpus validus creber</i>	Softstem bulrush	300
<i>Sparganium eurycarpum</i>	Bur reed	200
<b>Total</b>		<b>1425</b>

Note: Minimum six inches (6") of topsoil to be spread prior to planting.

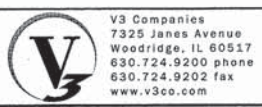
**LEGEND**

- EMERGENT - 0.25 ACRES
- WET PRAIRIE - 0.39 ACRES
- LOW-PROFILE MESIC PRAIRIE - 0.80 ACRES





- NOTES:
1. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH EXISTING ADJACENT SYSTEMS.
  2. EMERGENCY VEHICLE PREEMPTION EQUIPMENT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.



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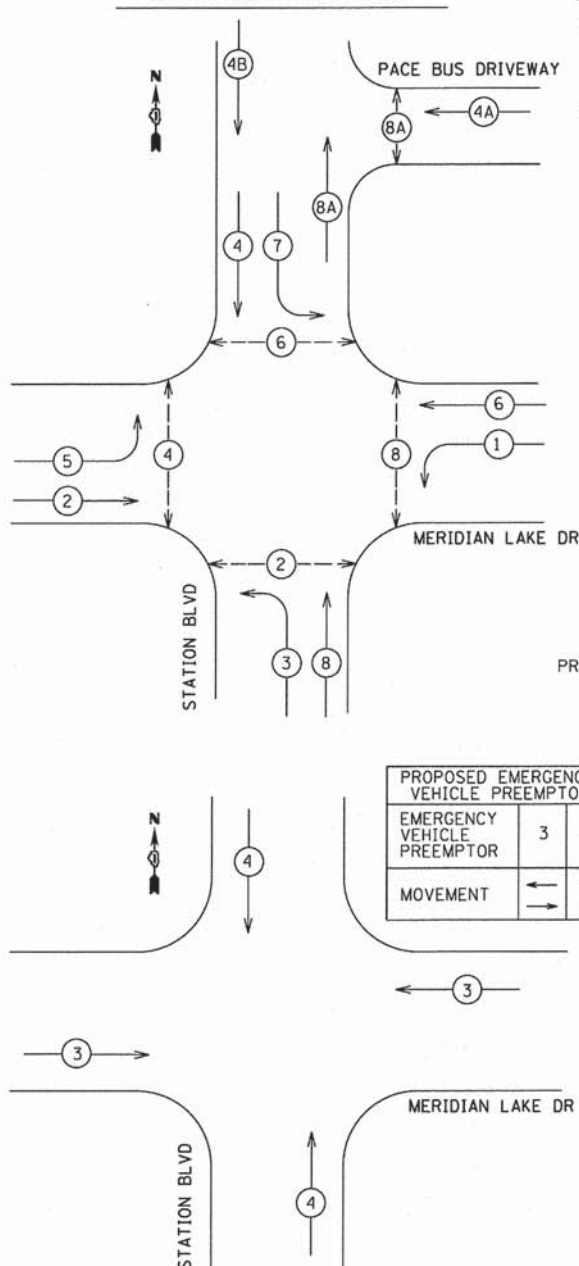
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN

SCALE: 1"=20' SHEET 1 OF 5 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	59
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

**CONTROLLER SEQUENCE**



**NOTES**

- EMERGENCY VEHICLE PREEMPTION EQUIPMENT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.
- THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH EXISTING ADJACENT SYSTEMS.

**LEGEND**

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	← → ↑ ↓

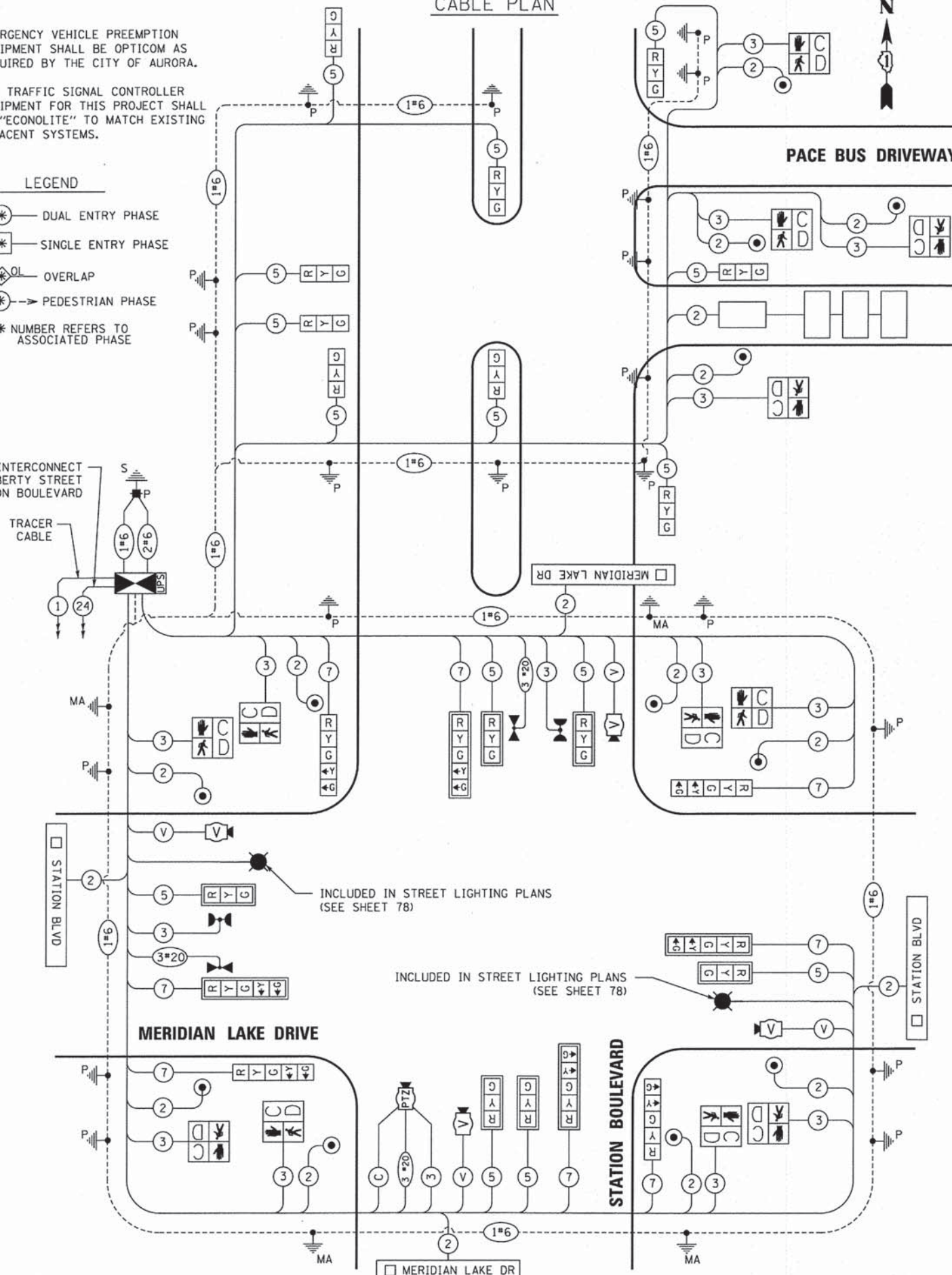
**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	% OPERATION	
SIGNAL (RED)	23		17	50%	195.50
(YELLOW)	23		25	25%	143.75
(GREEN)	23		15	25%	86.25
ARROW	16		12	10%	19.20
PED. SIGNAL	12		25	100%	300.00
CONTROLLER	1		100	100%	100.00
VIDEO DETECTION	1		150	100%	150.00
BATTERY BACKUP	1		25	100%	25.00
VIDEO SYSTEM	1		100	100%	100.00
ILL. SNS	4		64	50%	128.00
<b>TOTAL =</b>					<b>1247.70</b>

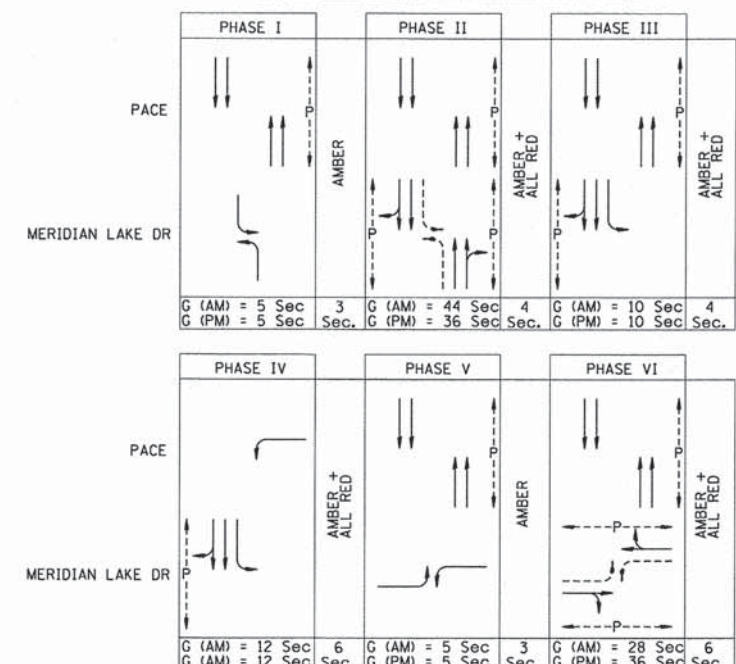
ENERGY COSTS TO: CITY OF AURORA  
44 EAST DOWNER PLACE  
AURORA, ILLINOIS 60507

ENERGY SUPPLY CONTACT: LANE SIBLEY  
PHONE: (630) 723-2397  
COMPANY: COMED

**CABLE PLAN**

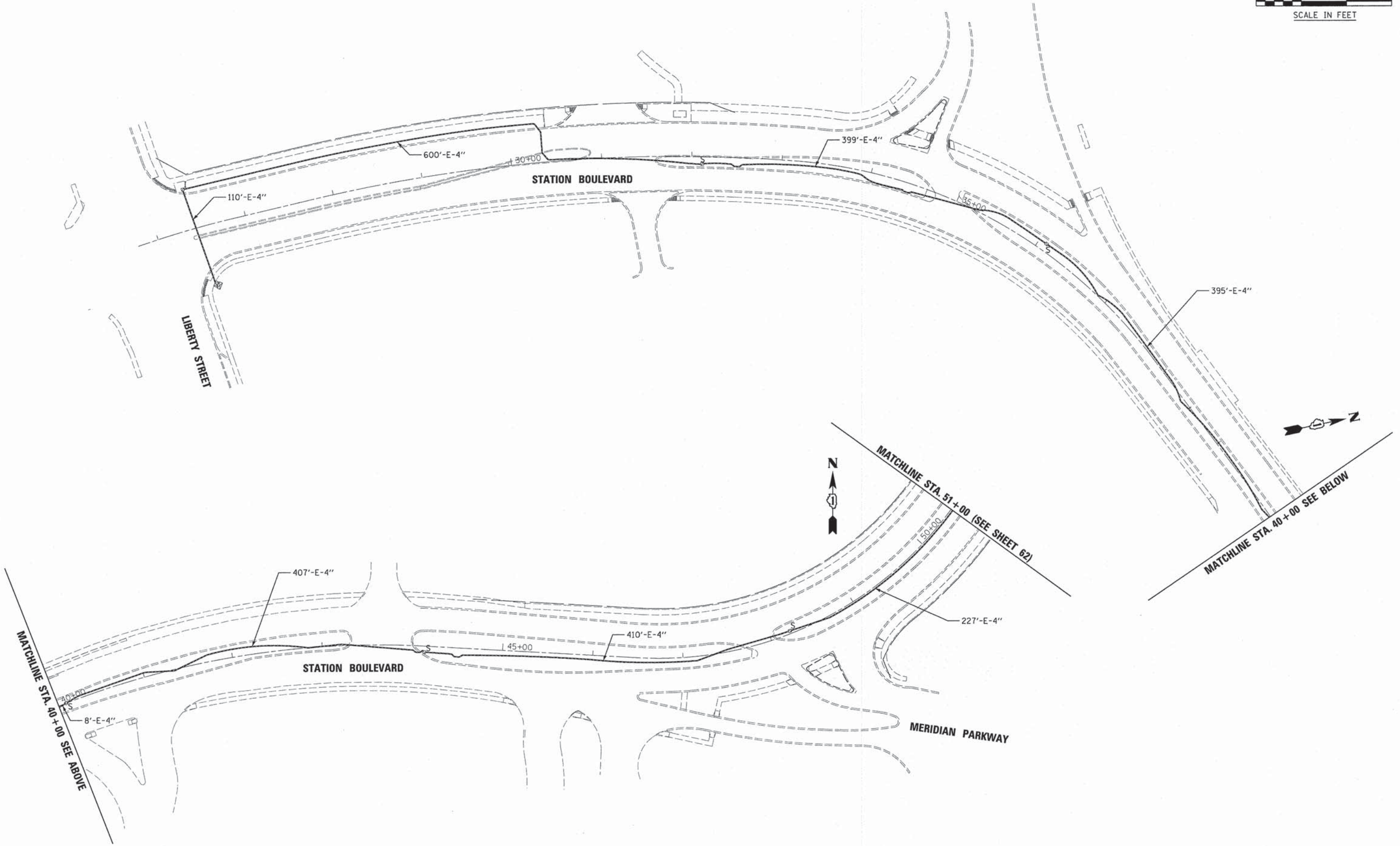


**SEQUENCE OF OPERATIONS**



**SCHEDULE OF QUANTITIES**

CODE NUMBER	ITEM	UNIT	TOTAL
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	492
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	185
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	94
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	890
81400100	HANDHOLE	EACH	5
81400300	DOUBLE HANDHOLE	EACH	2
85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	20
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,870
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,402
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,663
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,595
87301305	ELECTRIC CABLE IN CONDUIT LEAD-IN, NO 14, 1-PAIR	FOOT	395
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	484
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,574
87500600	TRAFFIC SIGNAL POST, 10 FT.	EACH	7
87501000	TRAFFIC SIGNAL POST, 14 FT.	EACH	9
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	4
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	64
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	24
87900200	DRILL EXISTING HANDHOLE	EACH	6
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	12
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
88500100	INDUCTIVE LOOP DETECTOR	EACH	1
88600100	DETECTOR LOOP, TYPE I	FOOT	243
88700200	LIGHT DETECTOR	EACH	2
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	12
89502380	REMOVE EXISTING HANDHOLE	EACH	1
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	364
X0326266	ETHERNET SWITCH	EACH	1
X0326885	VIDEO DETECTION SYSTEM	EACH	1
X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
X8730320	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 20 3/C, TWISTED, SHIELDED	FOOT	145
X8770127	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	1
X8770135	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH	2
X8770142	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT. (SPECIAL)	EACH	1
XX003584	VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT	FOOT	145
XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1



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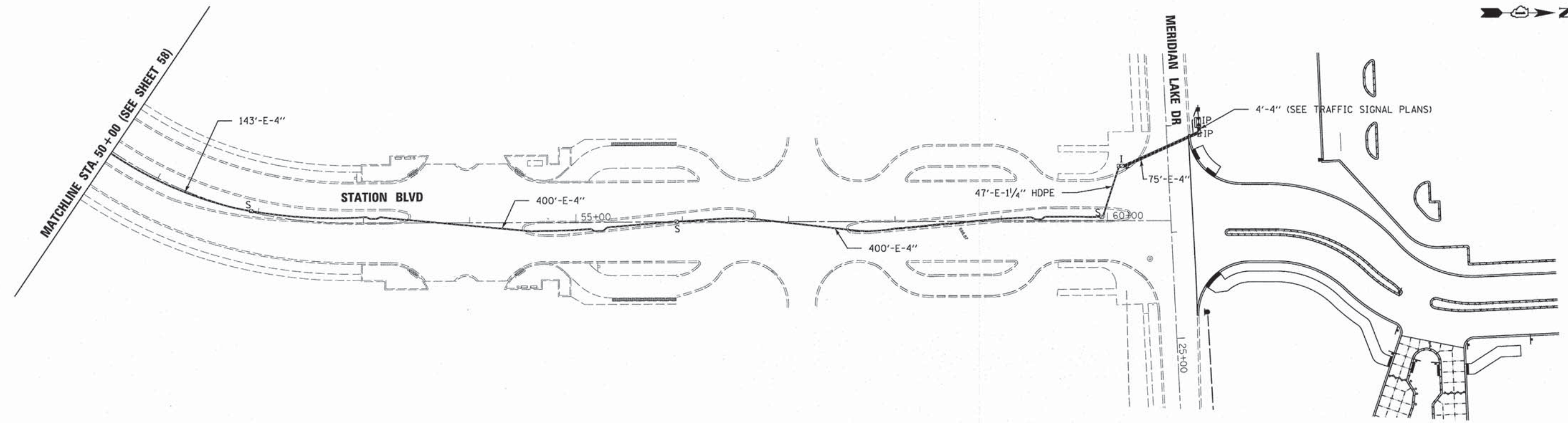
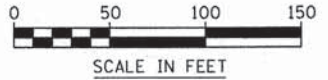
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN  
STATION BOULEVARD FROM LIBERTY STREET TO MERIDIAN LAKE DRIVE**  
SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	61
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				



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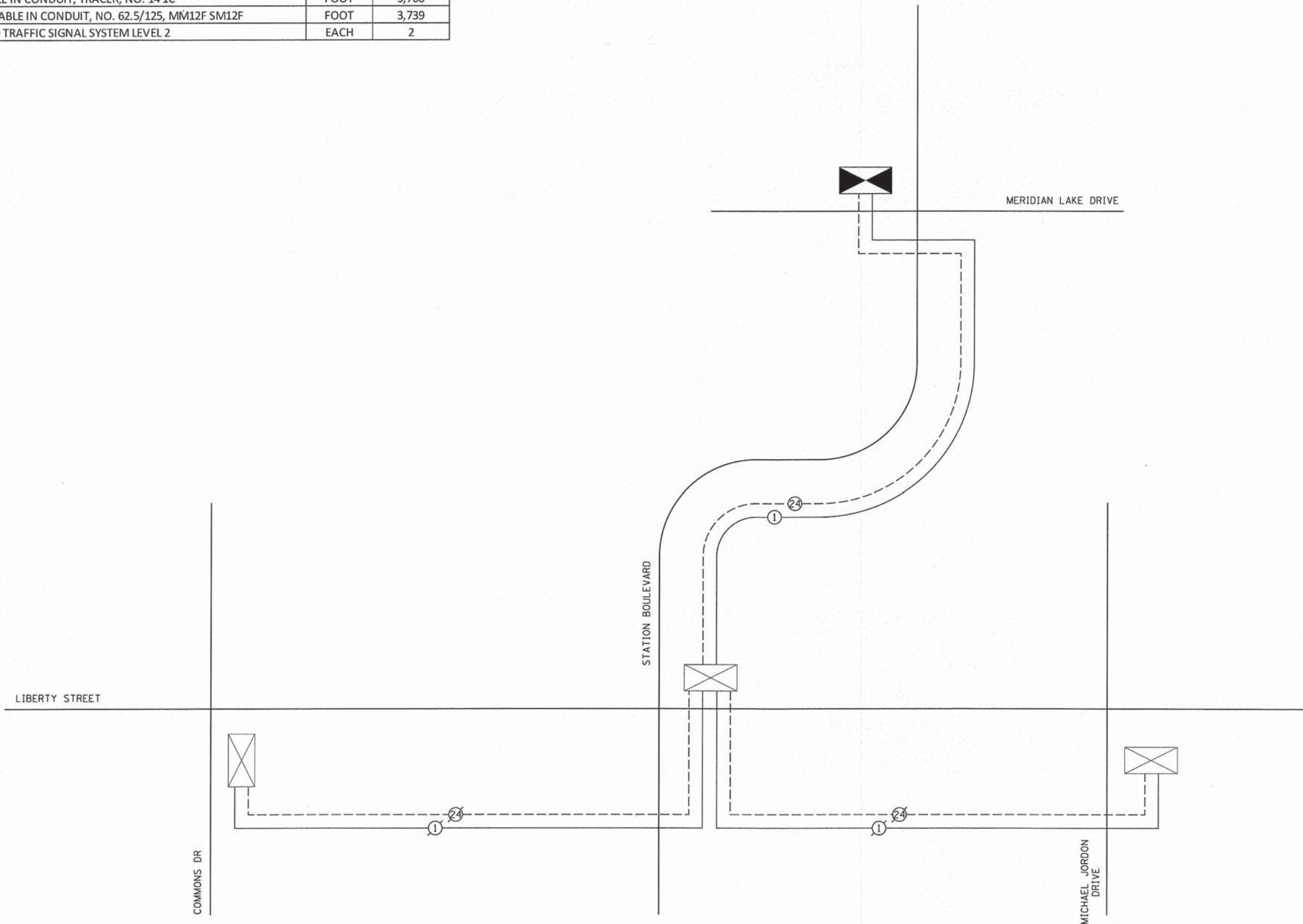
**INTERCONNECT PLAN  
STATION BOULEVARD FROM LIBERTY STREET TO MERIDIAN LAKE DRIVE**

SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	62
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

CODE NUMBER	ITEM	UNIT	QTY
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,760
87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3,739
Z0033046	RE-OPTIMIZED TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2



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		DATE - 03-04-15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC  
STATION BOULEVARD

SCALE: N.T.S. SHEET 5 OF 5 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	63
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 61B33

# TRAFFIC SIGNAL LEGEND

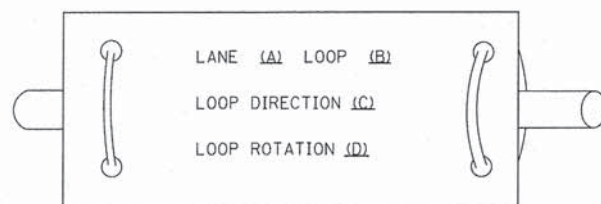
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED												
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C. UNLESS NOTED OTHERWISE															
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE															
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA															
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED															
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F															
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F															
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F															
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F															
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE															
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED															
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED															
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED															
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR															
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE DETECTOR															
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR															
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR															
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">EXISTING</th> <th style="width: 50%;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>				EXISTING	PROPOSED										
EXISTING	PROPOSED																						
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED																			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID																			
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT																			
DETECTOR LOOP, TYPE I				RADIO REPEATER																			
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																			
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																			
VIDEO DETECTION CAMERA																							
VIDEO DETECTION ZONE																							
PAN, TILT, ZOOM CAMERA																							
WIRELESS DETECTOR SENSOR																							
WIRELESS ACCESS POINT																							



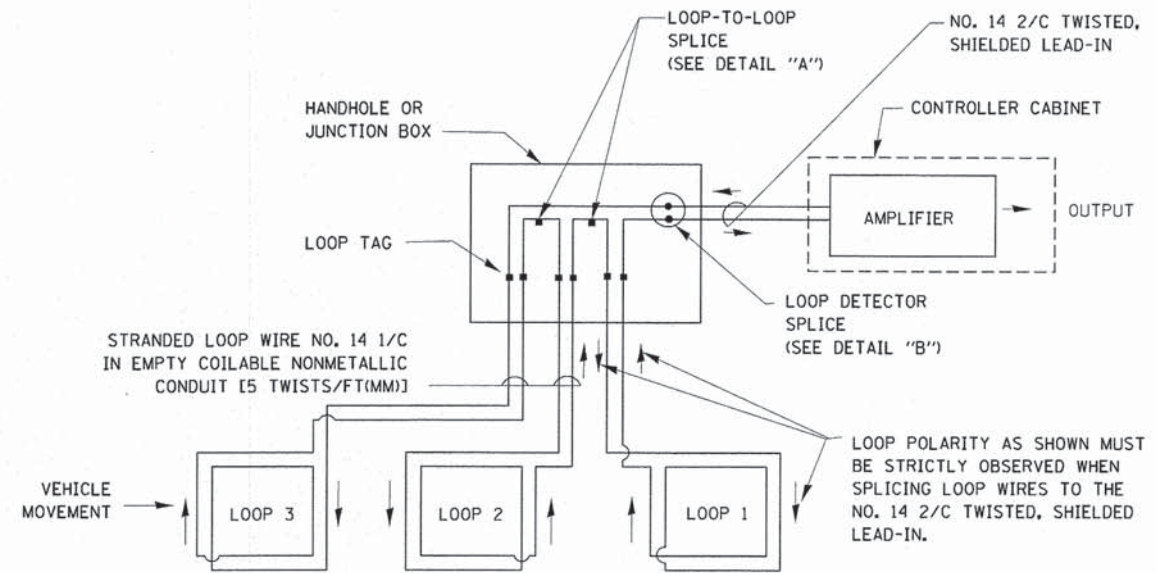
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

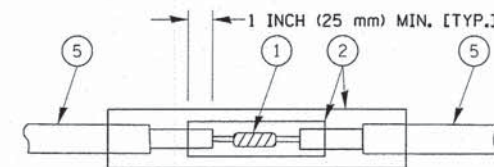


- A. LANE #1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

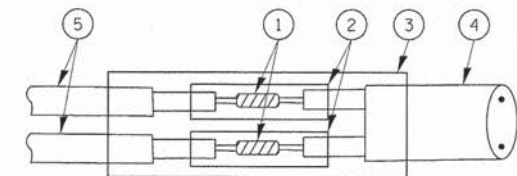


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

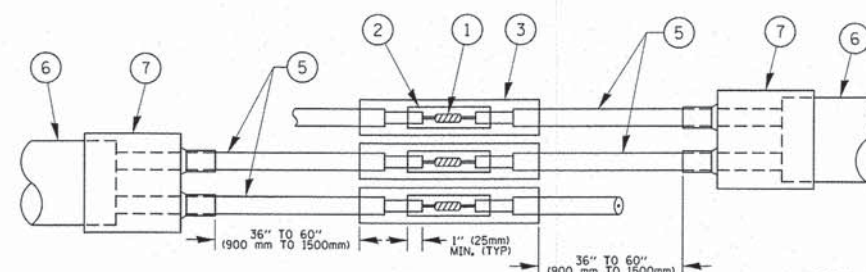


DETAIL "A"  
LOOP-TO-LOOP SPLICE

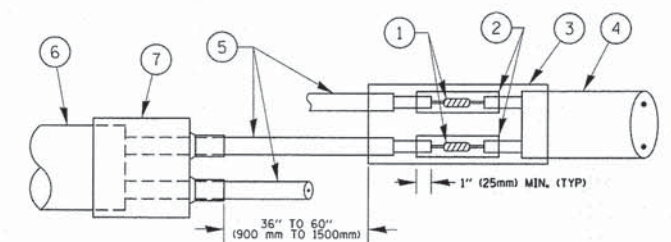


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



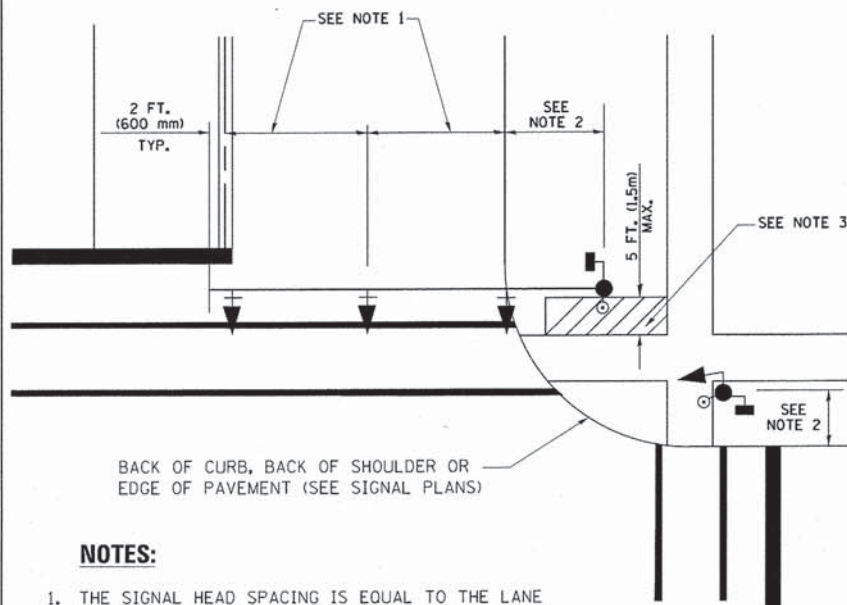
DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PREFORMED LOOP**

**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

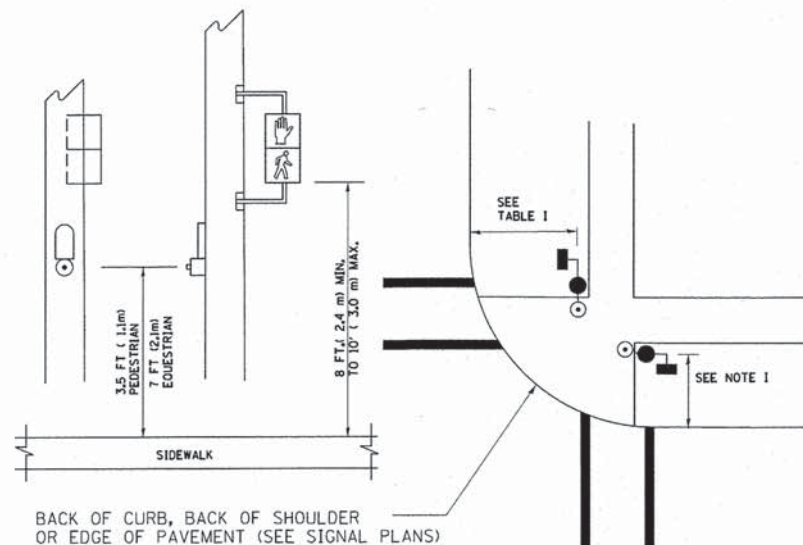
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**  
**MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR**  
**FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN**  
**WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

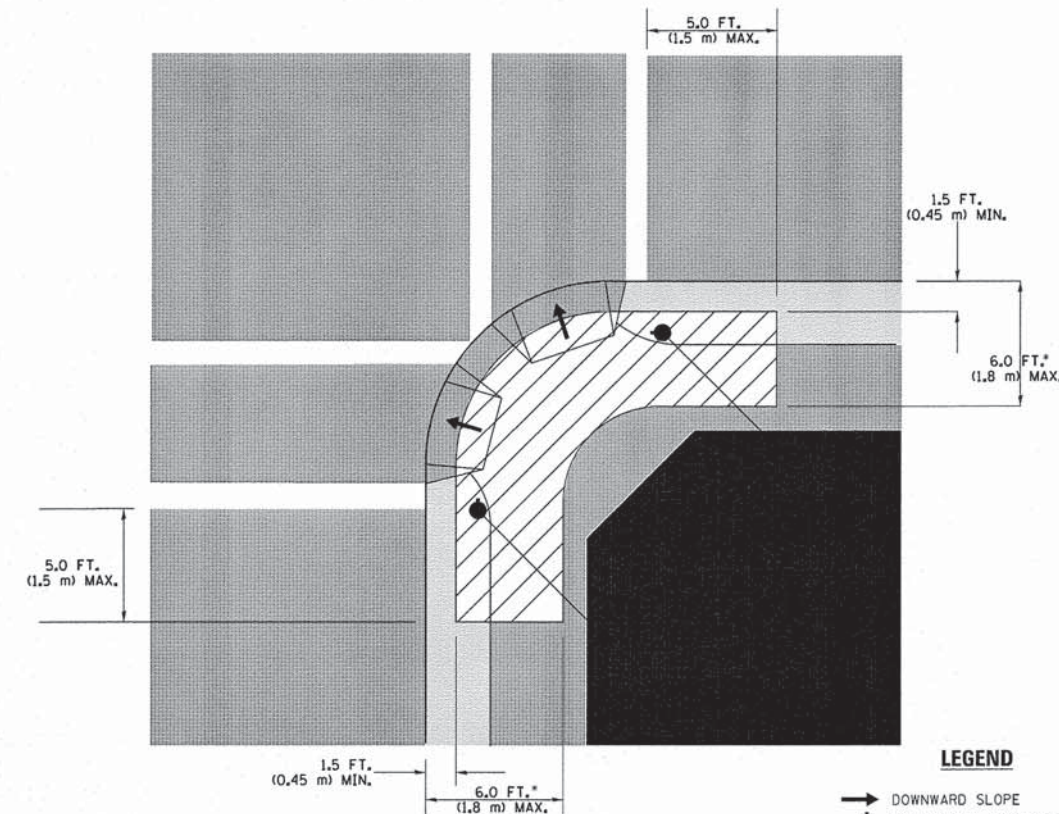
**PEDESTRIAN SIGNAL POST**  
**AND**  
**PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

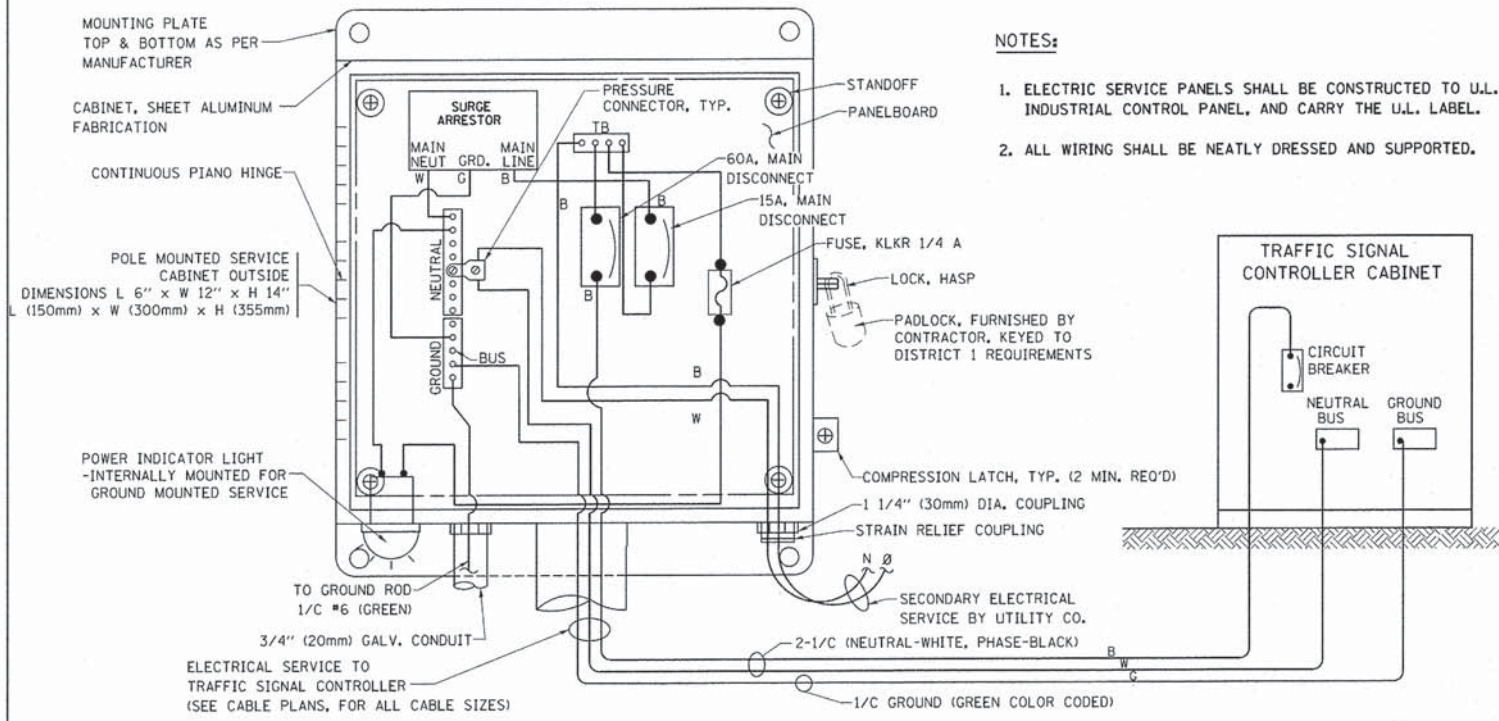
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

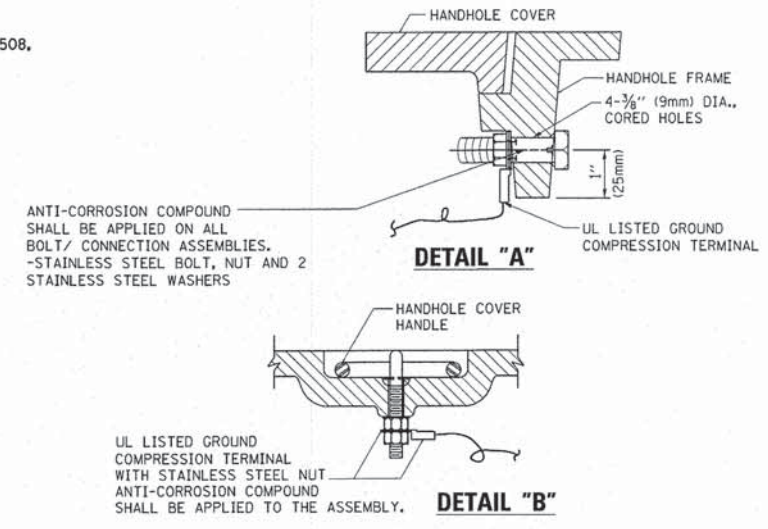
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

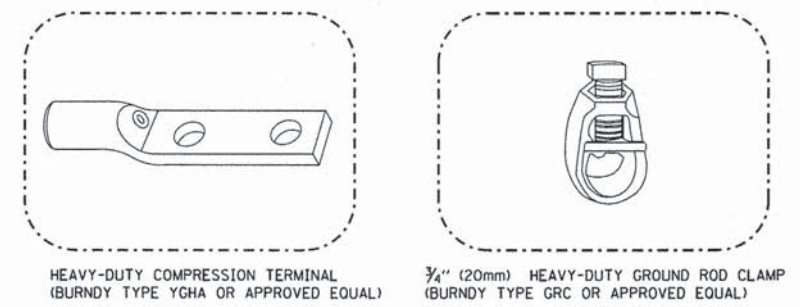
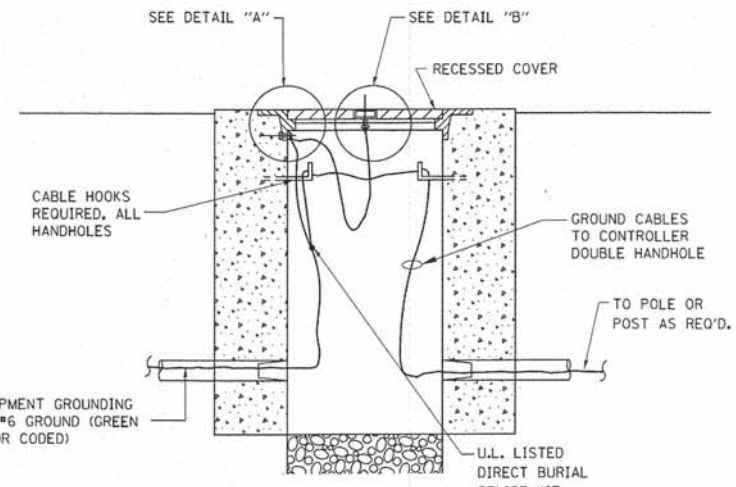
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.



**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**

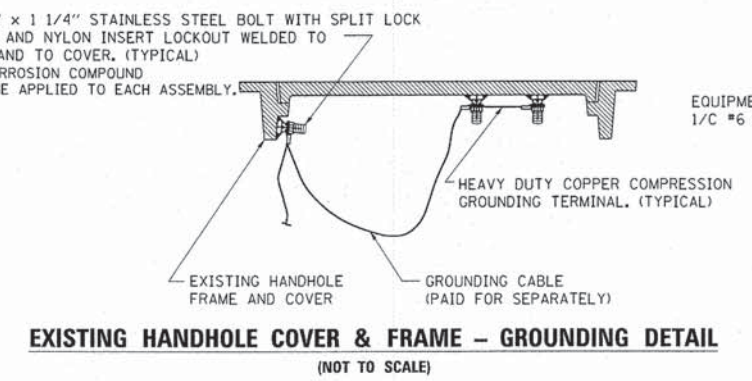


- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
  2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
  3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
  4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

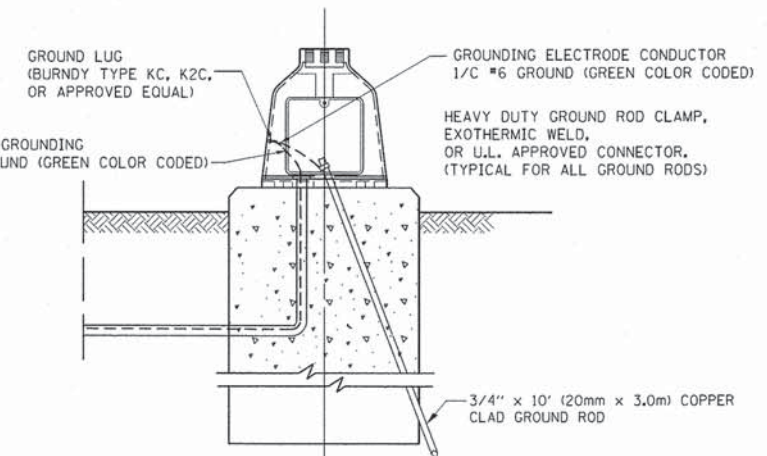


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

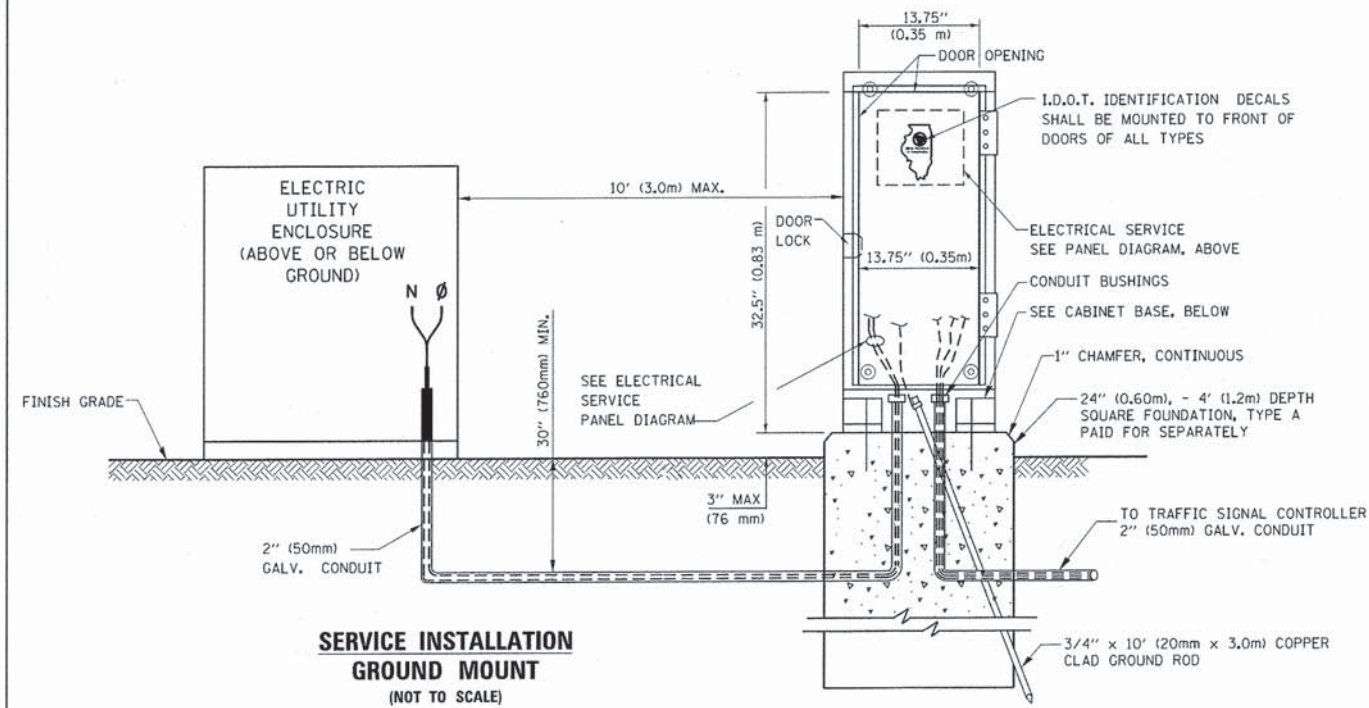
**HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**



**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**

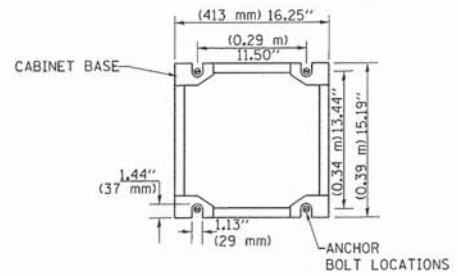


**MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)**



**SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)**

**CABINET - BASE BOLT PATTERN (NOT TO SCALE)**



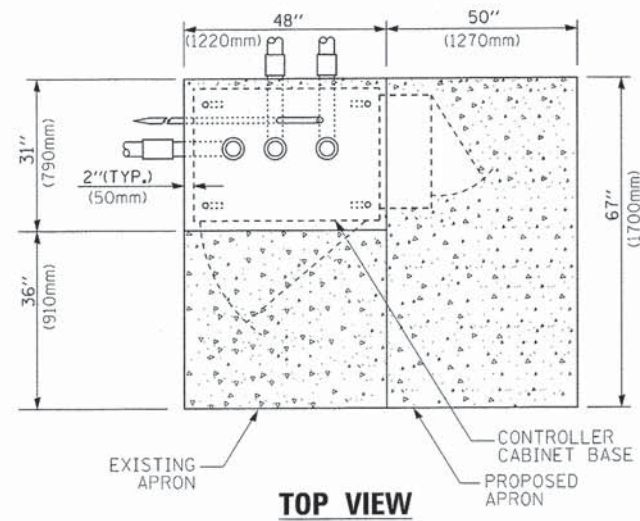
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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

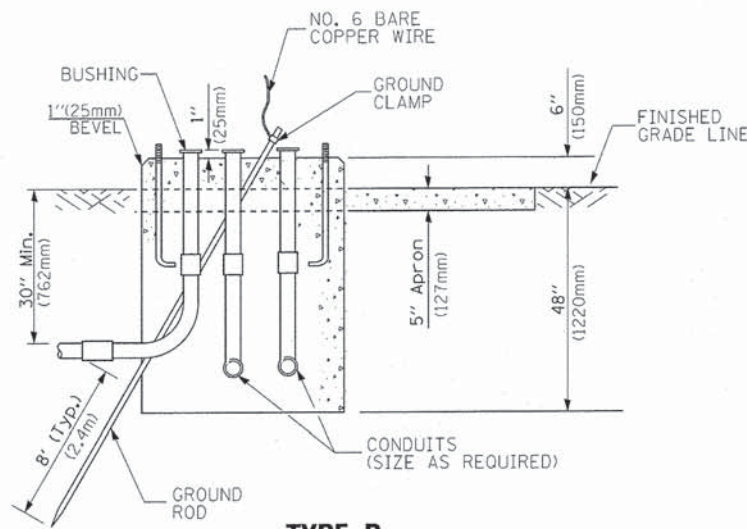
**DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.

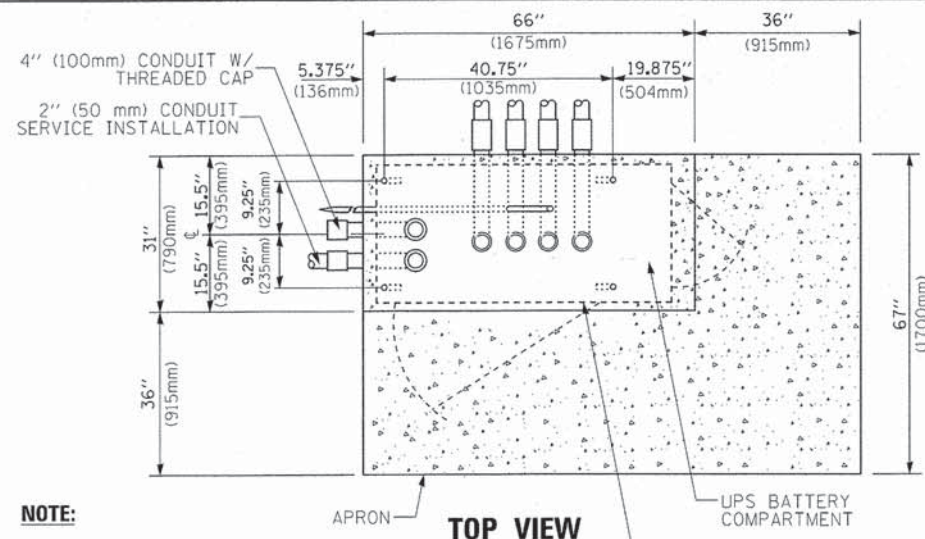
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-05		101	67
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61833	



**TOP VIEW**

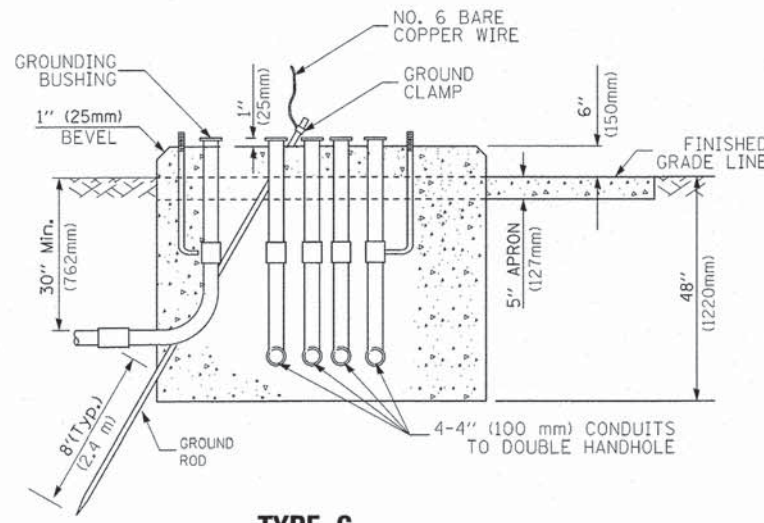


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

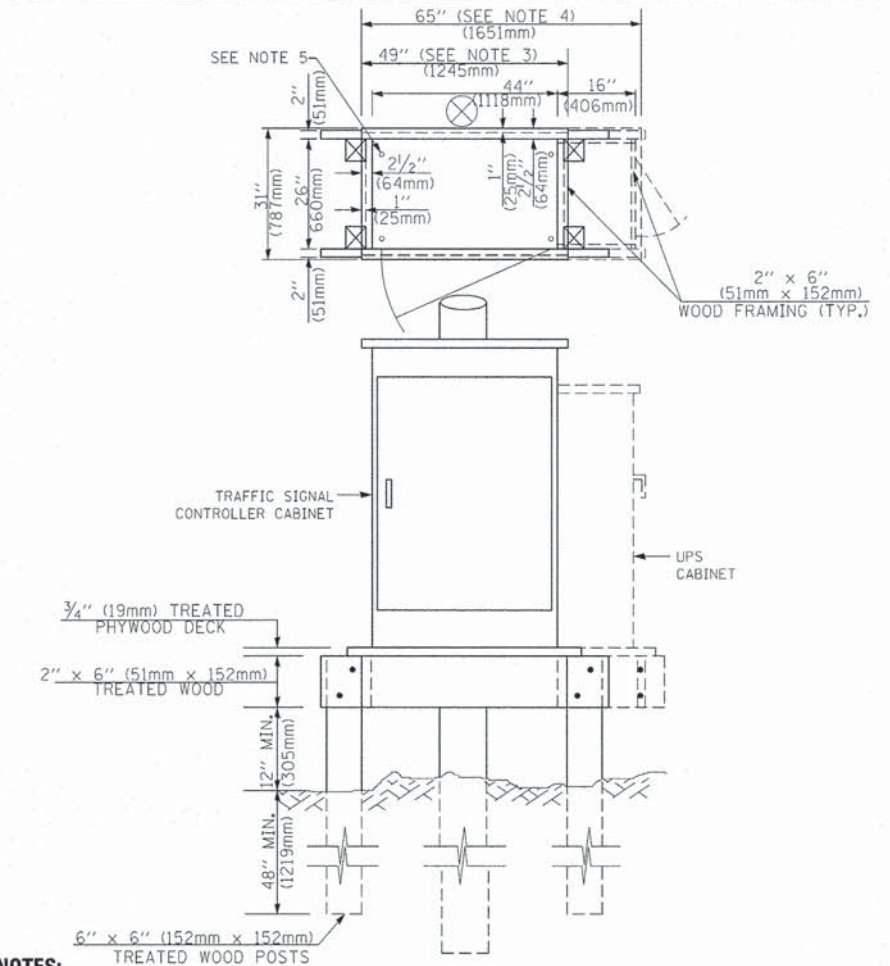


**TOP VIEW**

**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

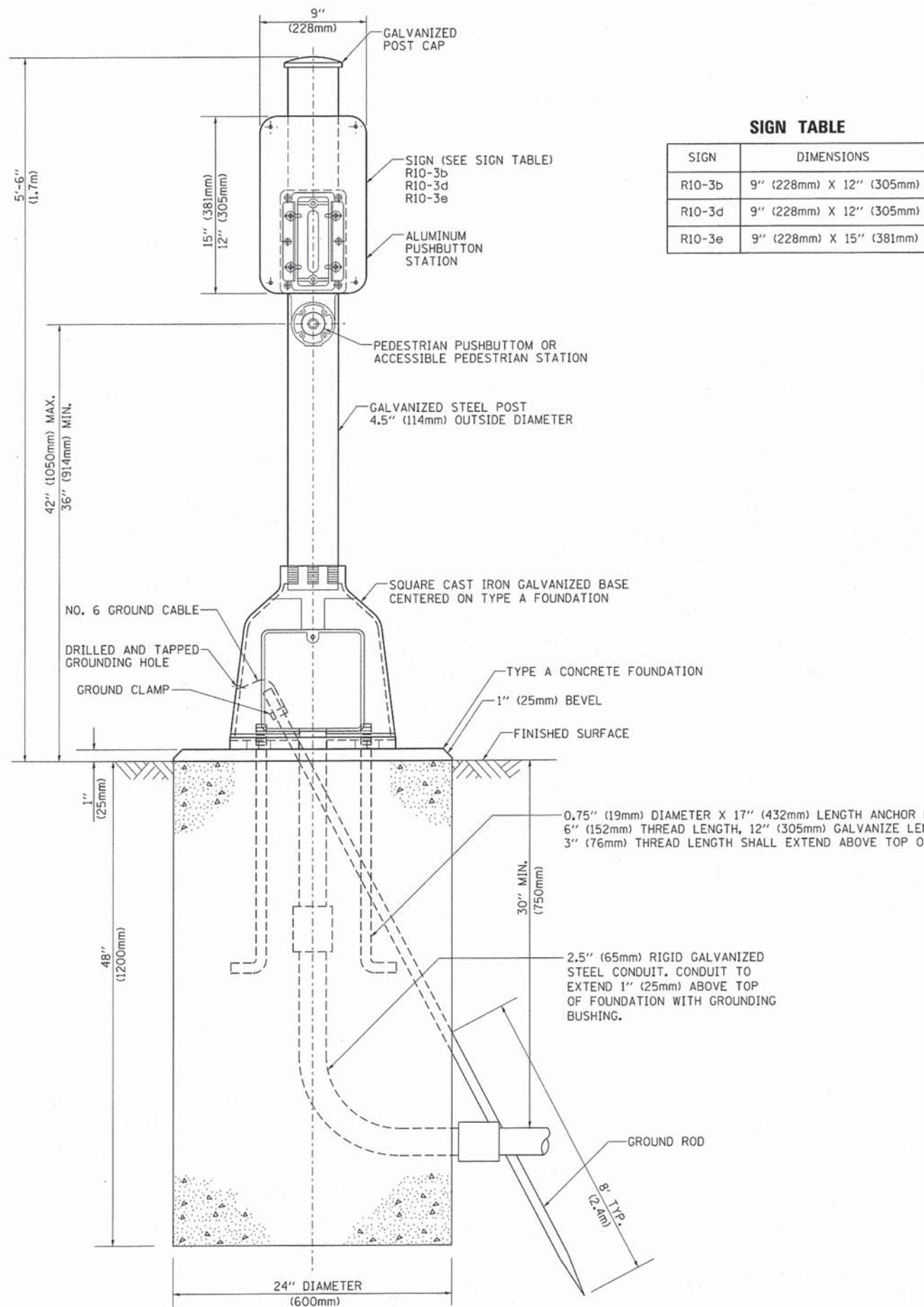
MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

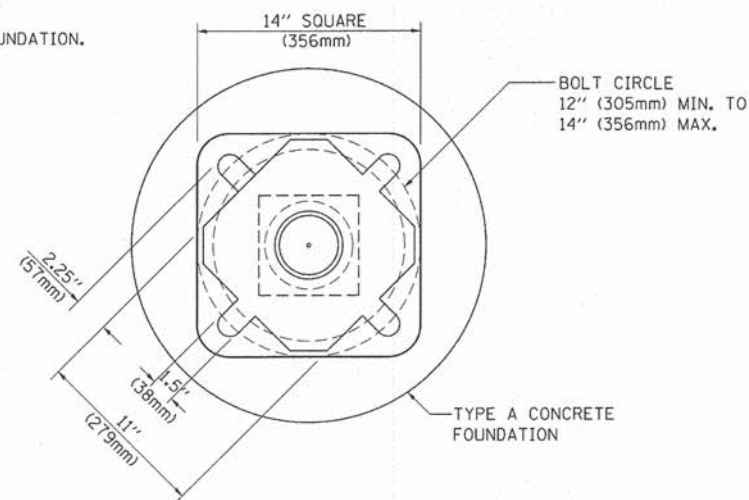
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**





**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)



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

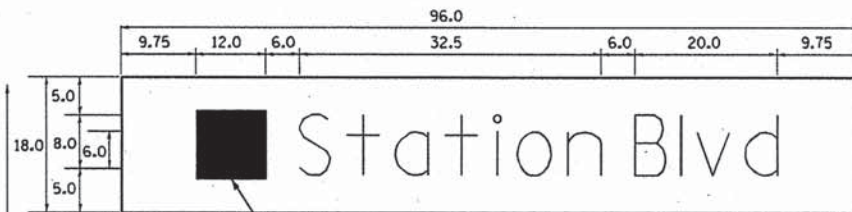
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.

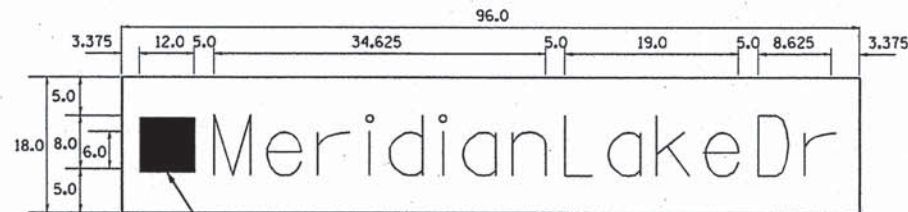
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	70
TS-05			CONTRACT NO. 61833	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PANEL SIGN DESIGN INTERNALLY ILLUMINATED



CITY LOGO DECAL TO BE OBTAINED FROM THE CITY OF AURORA

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.00	LED ILL.	-	2



CITY LOGO DECAL TO BE OBTAINED FROM THE CITY OF AURORA

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	12.00	LED ILL.	-	2

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THERE IS SPACE AVAILABLE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

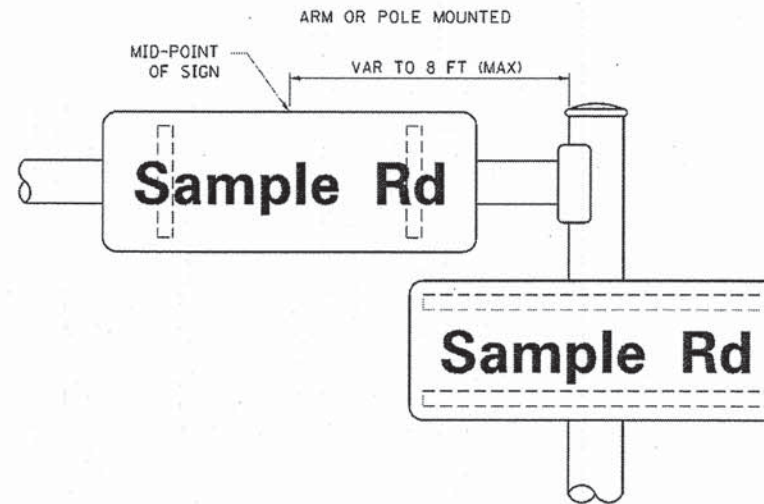
- J.O. HERBERT COMPANY, INC  
MIDLOTHIAN, VA
- WESTERN REMAC, INC.  
WOODRIDGE, IL

PARTS LISTING:

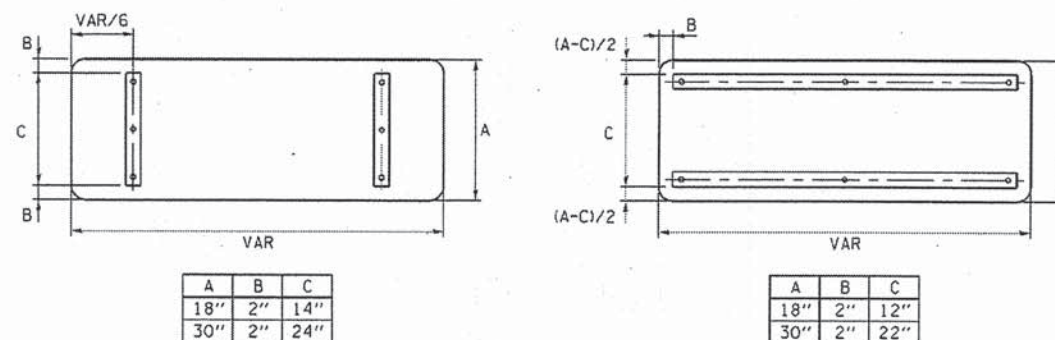
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- BRACKETS SELF TAPPING WITH NEOPRENE WASHER
- CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING PART #HPN034 (UNIVERSAL)

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



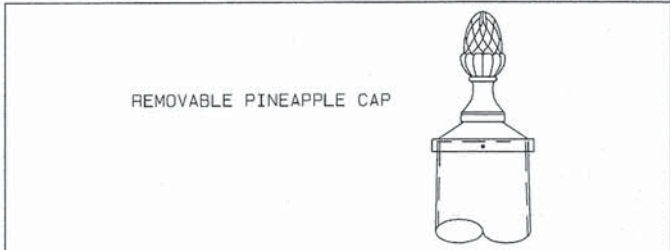
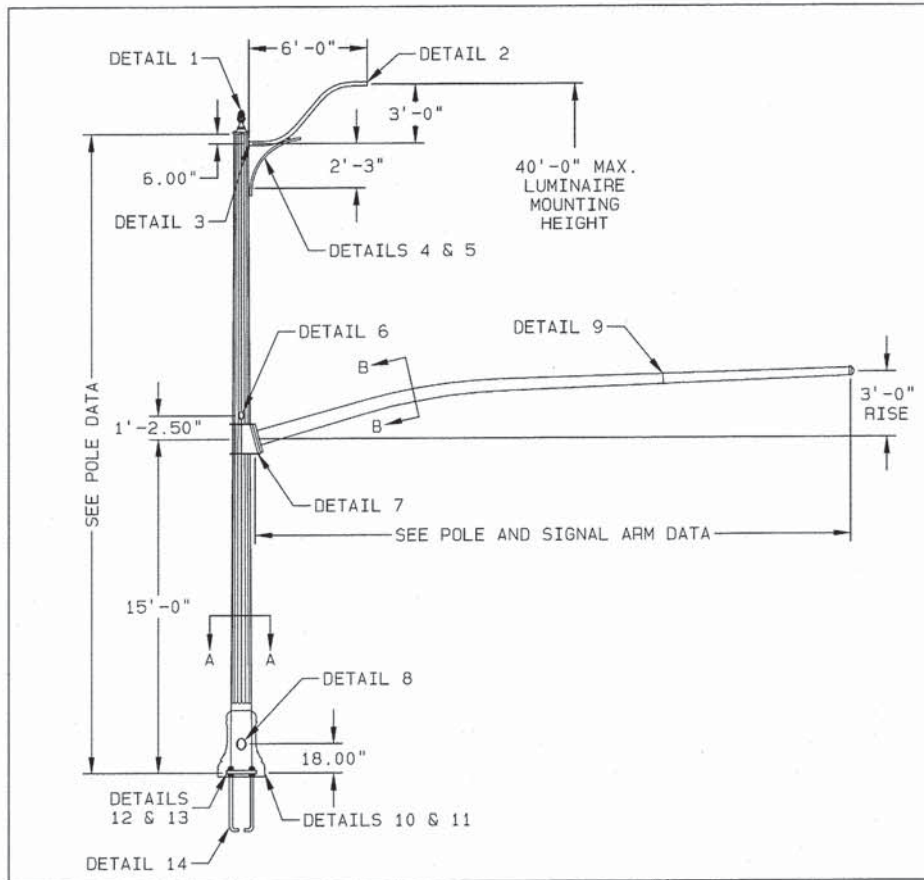
SUPPORTING CHANNELS



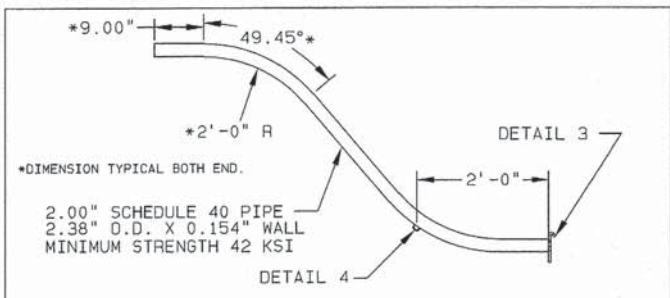
STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240



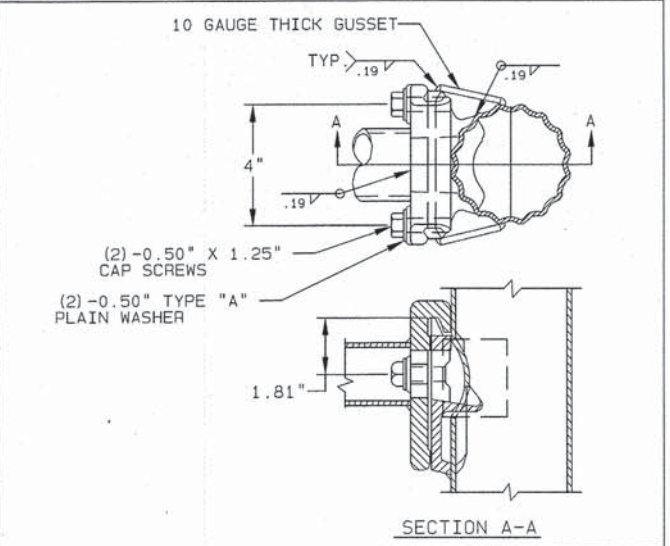
DETAIL 1 | PINEAPPLE CAP ASSEMBLY



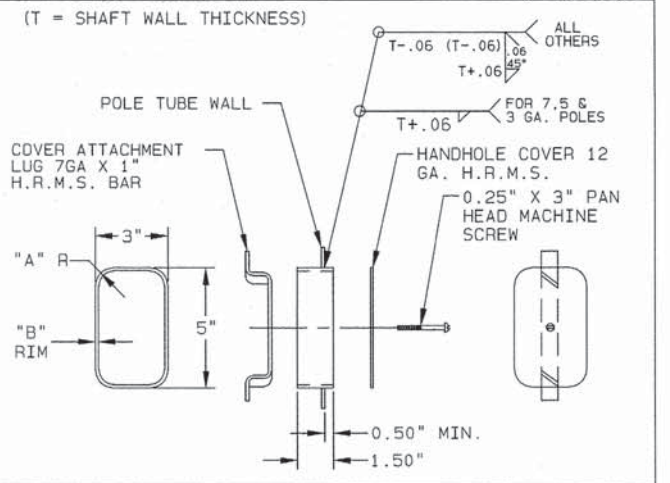
DETAIL 2 | 6'-0" LUMINAIRE ARM

BASE COAT: HOT DIP GALVANIZE TO ASTM A123  
 PRIME COAT: NEW HIGH BUILD EPOXY POWDER  
 FINISH COAT: PENTABOND POWDER  
 COLOR: AURORA BLACK  
 VALMONT SPEC: F-573A (5 YEAR WARRANTY SPEC.)

FINISH NOTE

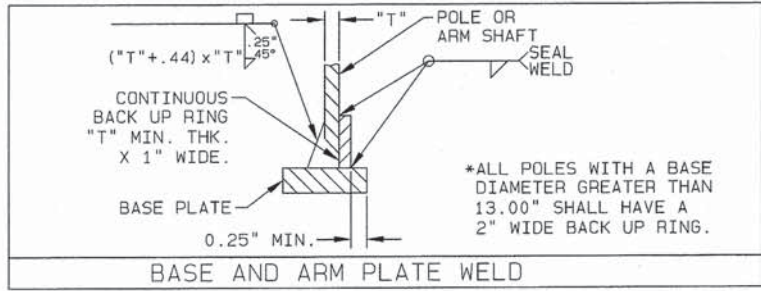


DETAIL 3 | LUMINAIRE ARM ATTACHMENT

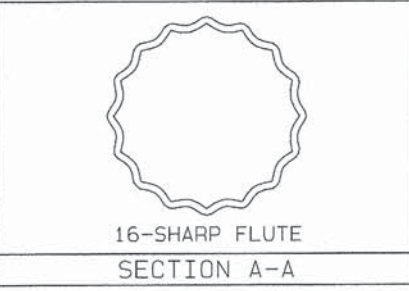


DETAIL 6 | HANDHOLE

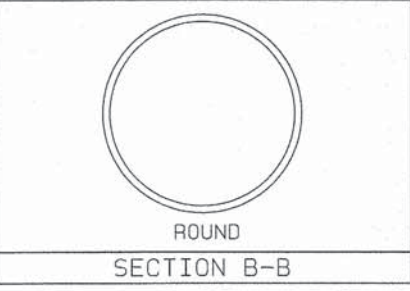
POLE GA.	"A"	"B"
7, 5 & 3	1.00"	0.179"
ALL OTHERS	0.50"	0.375"



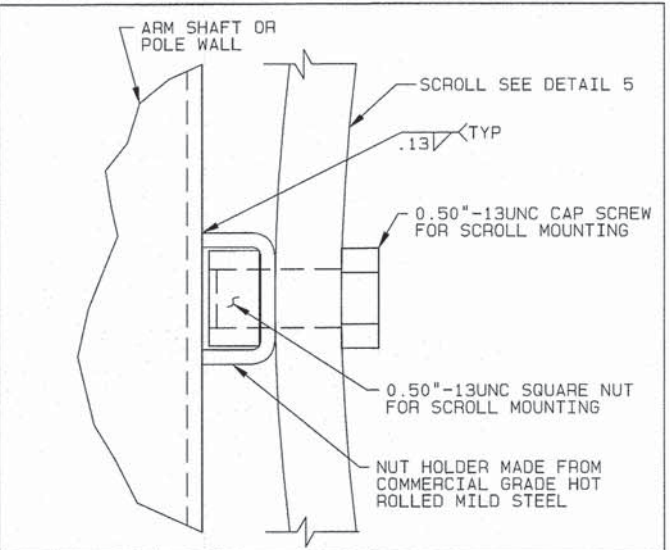
BASE AND ARM PLATE WELD



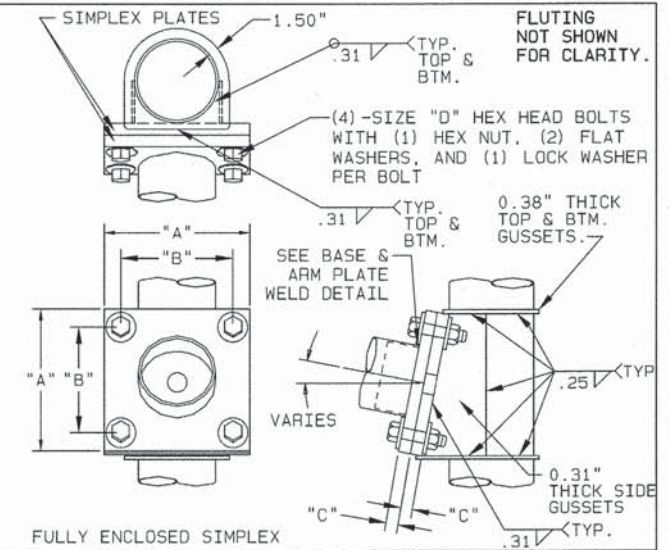
SECTION A-A



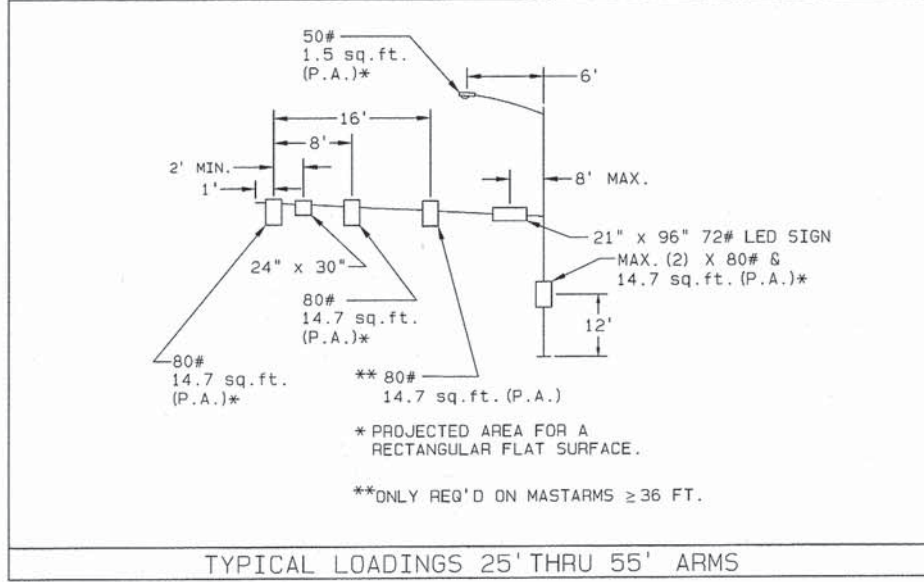
SECTION B-B



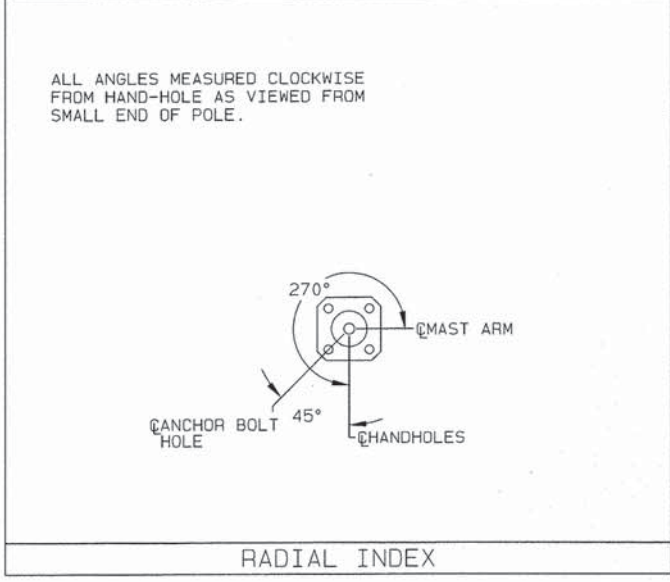
DETAIL 4 | SCROLL ATTACHMENT



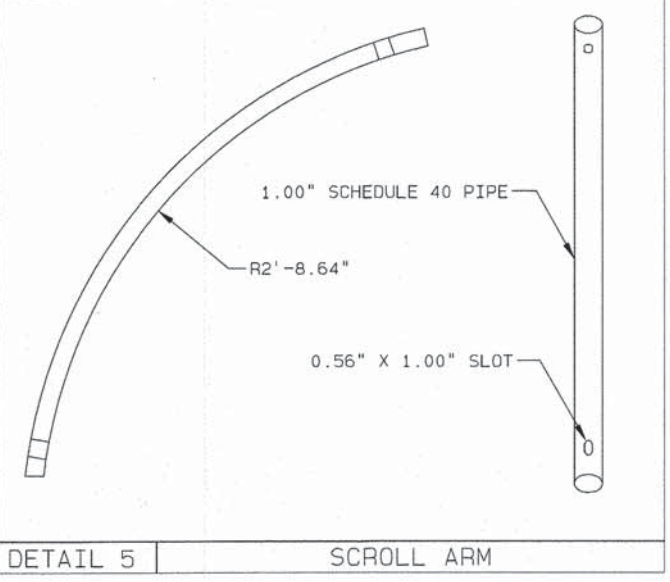
DETAIL 7 | SINGLE SIGNAL ARM ATTACHMENT



TYPICAL LOADINGS 25' THRU 55' ARMS



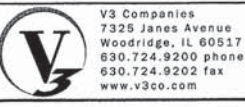
RADIAL INDEX



DETAIL 5 | SCROLL ARM

SIGNAL ARM ATTACHMENT DATA

ARM SPAN (FT)	"A" (IN)	"B" (IN)	"C" (IN)	"D"
20-25	16.63	13.38	1.25	1.25" X 4.75"
26-30	17.88	13.88	1.50	1.25" X 4.75"
31-35	17.88	13.88	1.50	1.25" X 4.75"
36-40	19.75	16.50	2.00	1.25" X 5.75"
41-45	19.75	16.50	2.00	1.25" X 5.75"
46-50	19.75	16.50	2.00	1.25" X 5.75"
51-55	21.25	17.50	2.00	1.50" X 6.00"



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 DRAWN - CAS  
 CHECKED - MJR  
 DATE - 03-04-15

REVISD -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

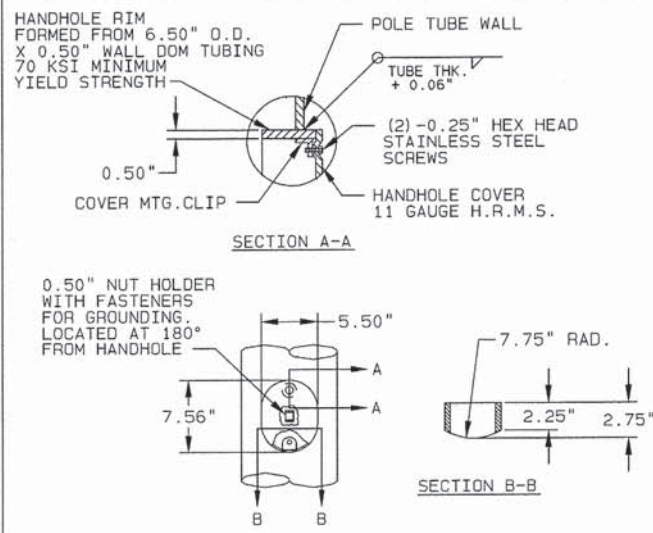
TRAFFIC SIGNAL MAST ARM AND POLE DETAILS

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

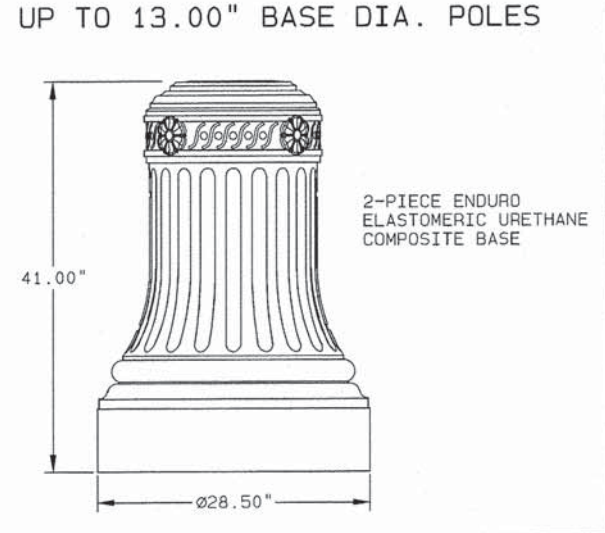
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	72

CONTRACT NO. 61B33  
 ILLINOIS FED. AID PROJECT

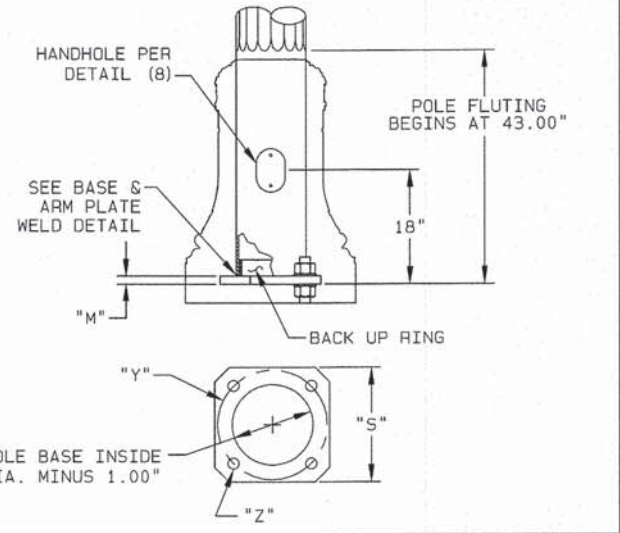




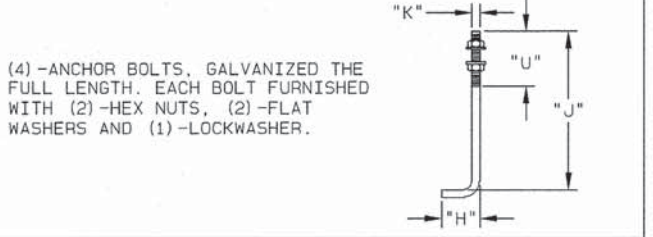
DETAIL 8 SEMI-FLUSH HANDHOLE



DETAIL 10 HN29EC DECORATIVE BASE



DETAIL 12 HN29EC POLE BASE

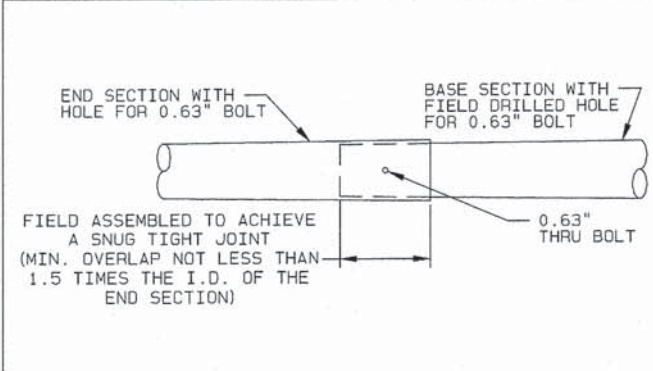


DETAIL 14 ANCHOR BOLT

- NOTES:
- POLE AND ARM SHAFTS 13.00" AND SMALLER-CONFORMS TO ASTM DESIGNATION: A595 GR. A WITH 55,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT. POLE AND ARM SHAFTS LARGER THAN 13.00"-CONFORMS TO ASTM DESIGNATION: M-223 A572 GR. 65 WITH A 65,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT.
  - BASE PLATE AND SIMPLEX PLATES-CONFORM TO AASHTO M-223 GR. 50 (ASTM: A572 GR. 50).
  - ANCHOR BOLTS-ALL STRUCTURES: ASTM F1554 GR. 105 105,000 P.S.I. MINIMUM YIELD STRENGTH. (AASHTO M314)
  - TRAFFIC SIGNAL ARM END CAP SECURED IN PLACE WITH 3 STAINLESS STEEL SET SCREWS. (TRAFFIC SIGNAL ARM END CAP PROVIDED WITH (2) ADDITIONAL STAINLESS STEEL HEX BOLTS).
  - ALL NON-STAINLESS THREADED FASTENERS TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).
  - SIMPLEX CONNECTING BOLTS-ASTM DESIGNATION: A325 (M164) GALVANIZED TO ASTM DESIGNATION: A153 LUBRICATE THREADS IN FIELD IF NECESSARY BEFORE INSTALLATION.
  - ALL VEHICULAR AND/OR PEDESTRIAN SIGNAL LIGHTS AND NECESSARY HARDWARE FOR ATTACHMENT TO BE FIELD LOCATED AND FURNISHED BY OTHERS.
  - POLES AND ARMS TO BE GALVANIZED TO ASTM DESIGNATION: A123 (AASHTO M111). ACCESSORIES TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).
  - ACCESS HOLES IN ARMS AT SIGNALS TO BE FIELD DRILLED BY CONTRACTOR-LOCATED AS SHOWN IN PLANS.
  - LUMINAIRE ARM SHAFT CONFORMS TO 2" SCHEDULE 40 PIPE W/ 36,000 PSI MIN. YIELD STRENGTH.
  - SHAFT GAUGE OR THICKNESS ARE AS FOLLOWS: 11 GA.= 0.1196", 7 GA.= 0.1793", 5 GA.= 0.2092", 3 GA.=0.2391", AND 2" SCHED.40 PIPE = 0.154".

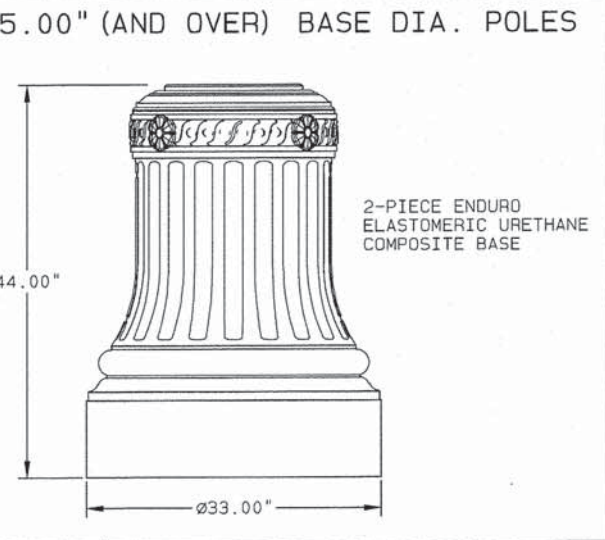
LOADING AND ALLOWABLE STRESS CRITERIA: 1994 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".

STATE OF ILLINOIS  
GENERAL NOTES

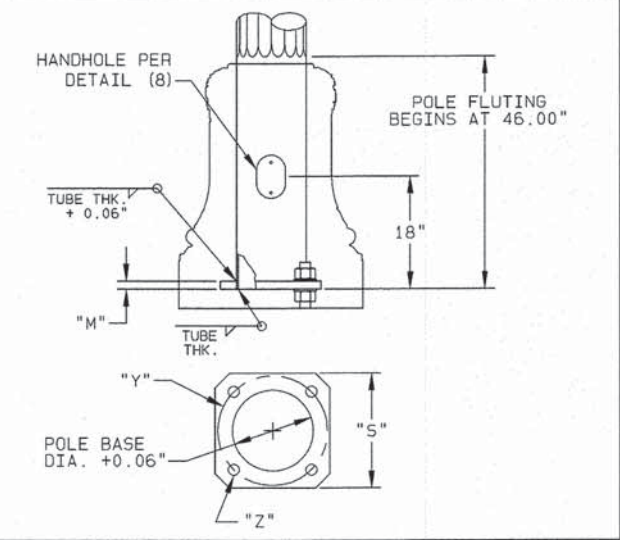


ARM SECTION DATA				
SPAN (FT)	BASE SECTION		END SECTION	
	LENGTH (FT)	GAUGE/THK	LENGTH (FT)	GAUGE/THK
51-55	50.00	5	VARIES	7

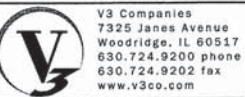
DETAIL 9 SIGNAL ARM SLIP JOINT



DETAIL 11 HN33EC DECORATIVE BASE



DETAIL 13 HN33EC POLE BASE



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REVISED -

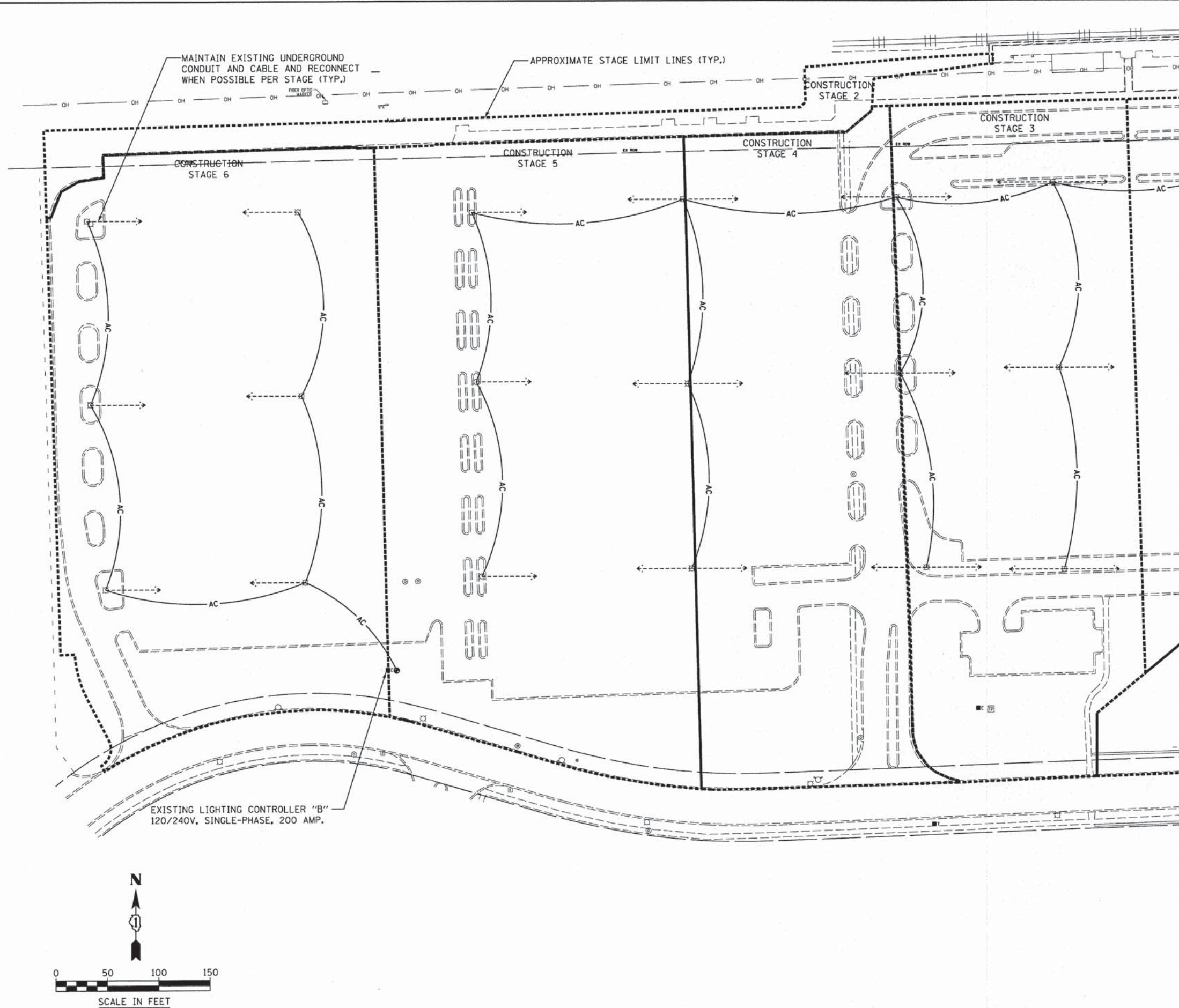
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MAST ARM AND POLE DETAILS

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	73
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B33	

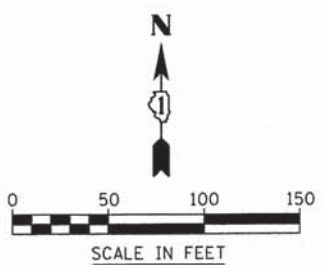




- ELECTRICAL SYMBOLS LEGEND**
- ☒ EXISTING LIGHT POLE TO BE REMOVED PER THE PARKING LOT CONSTRUCTION STAGING.
  - AC — AERIAL CABLE, 3-1/2 NO. 4 AND 1-1/2 NO. 4 WITH MESSENGER WIRE (SEE NOTE 5 BELOW)
  - ⊕ TEMPORARY WOOD POLE (SEE NOTE 5 BELOW)
  - ⊞ EXISTING LIGHTING CONTROLLER AND FOUNDATION

- NOTES**
1. BRANCH CIRCUIT WIRING FOR THE EXISTING EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED TO THE NEAREST LIGHTING EQUIPMENT TO REMAIN. REMOVE EXISTING WIRE.
  2. ALL EXISTING EQUIPMENT TO BE REMOVED AND SALVAGED SHALL BE RETURNED TO THE CITY OF AURORA AS DIRECTED BY THE ENGINEER.
  3. WHERE THE CONTINUITY OF CIRCUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE AND RECONNECT SUCH CIRCUITS OR CONDUITS. THE CONTINUITY OF THE CIRCUIT OR CONDUITS WILL BE INCIDENTAL TO "MODIFY EXISTING CONTROLLER" AND "CABINET AND MAINTAIN EXISTING LIGHTING CONTROLLER".
  4. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS AND WIRES OF THE SAME TYPE AND SIZE REQUIRED TO MAINTAIN THE CONTINUITY OF THE CIRCUIT TO EXISTING LIGHT POLES TO REMAIN WHICH MAY BE AFFECTED BY THE DEMOLITION. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER.
  5. EXACT NUMBER AND SIZE OF WIRE REQUIRED TO BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS. THE COST OF ANY ADDITIONAL WIRE OR MATERIALS REQUIRED TO MAINTAIN EXISTING LIGHTING SHALL BE INCIDENTAL TO "MAINTENANCE OF LIGHTING SYSTEM".
  6. EXISTING POLE MOUNTED CAMERAS AND AERIAL CABLE SHALL BE MAINTAINED TO THE EXTENT POSSIBLE WITHIN ACTIVE PARKING AREAS. THE COST OF MAINTAINING EXISTING POLE MOUNTED CAMERAS AND AERIAL CABLE SHALL BE INCIDENTAL TO "REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT".

MATCHLINE SEE SHEET 76



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USER NAME = #USER#	DESIGNED - JWB	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JWB	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

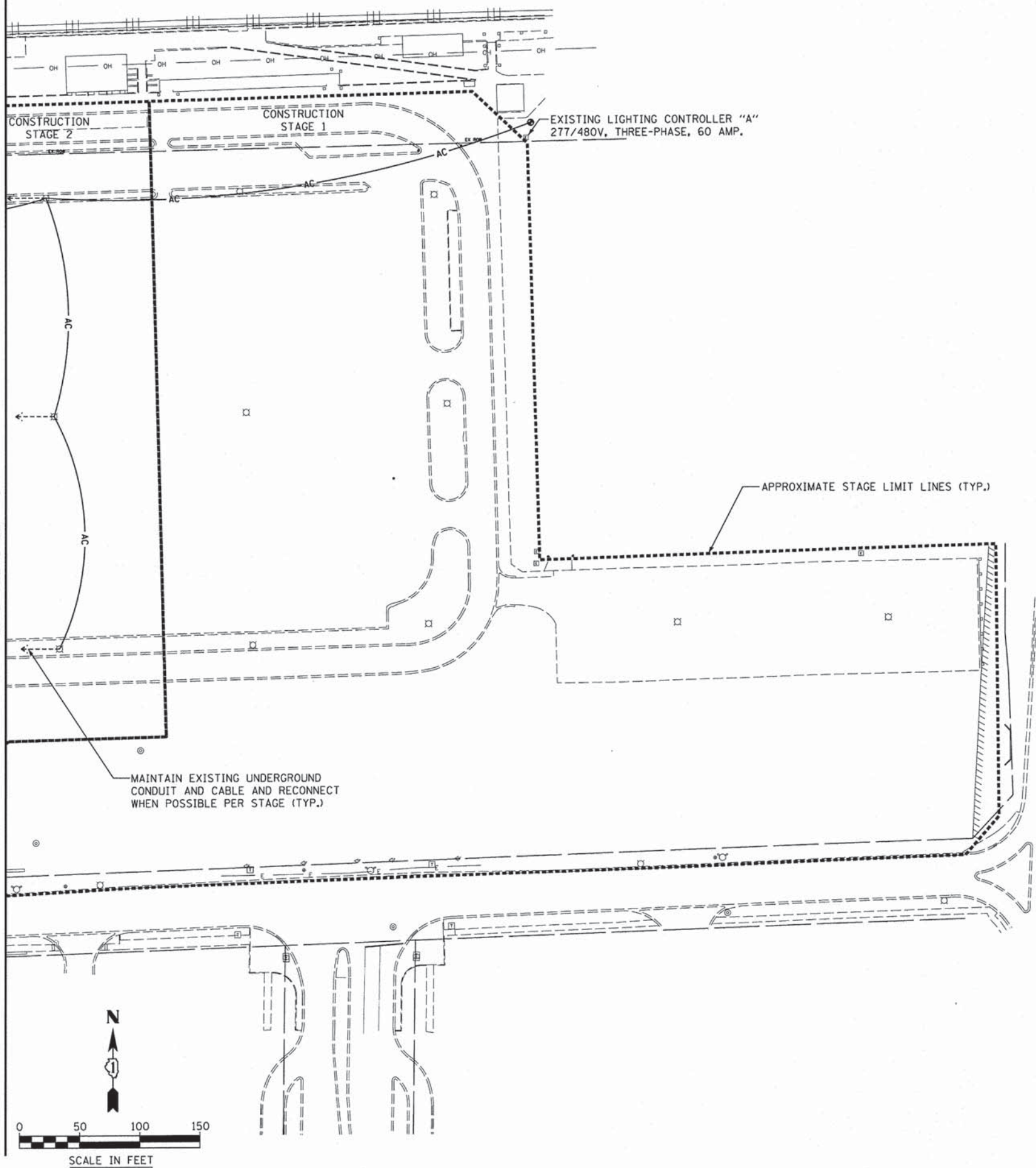
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING PLAN**

SCALE: 1"=50'    SHEET 1 OF 2 SHEETS    STA.    TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	75
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

MATCHLINE SEE SHEET 75



**ELECTRICAL SYMBOLS LEGEND**

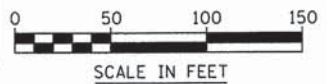
- ☐ EXISTING LIGHT POLE TO BE REMOVED PER THE PARKING LOT CONSTRUCTION STAGING.
- AC— AERIAL CABLE, 3-1/C NO. 4 AND 1-1/C NO. 4 WITH MESSENGER WIRE (SEE NOTE 5 BELOW)
- ⊙ TEMPORARY WOOD POLE (SEE NOTE 5 BELOW)
- ⊞ EXISTING LIGHTING CONTROLLER AND FOUNDATION

**NOTES**

1. BRANCH CIRCUIT WIRING FOR THE EXISTING EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED TO THE NEAREST LIGHTING EQUIPMENT TO REMAIN. REMOVE EXISTING WIRE.
2. ALL EXISTING EQUIPMENT TO BE REMOVED AND SALVAGED SHALL BE RETURNED TO THE CITY OF AURORA AS DIRECTED BY THE ENGINEER.
3. WHERE THE CONTINUITY OF CIRCUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE AND RECONNECT SUCH CIRCUITS OR CONDUITS. THE CONTINUITY OF THE CIRCUIT OR CONDUITS WILL BE INCIDENTAL TO "MODIFY EXISTING CONTROLLER" AND "CABINET AND MAINTAIN EXISTING LIGHTING CONTROLLER".
4. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS AND WIRES OF THE SAME TYPE AND SIZE REQUIRED TO MAINTAIN THE CONTINUITY OF THE CIRCUIT TO EXISTING LIGHT POLES TO REMAIN WHICH MAY BE AFFECTED BY THE DEMOLITION. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER.
5. EXACT NUMBER AND SIZE OF WIRE REQUIRED TO BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS. THE COST OF ANY ADDITIONAL WIRE OR MATERIALS REQUIRED TO MAINTAIN EXISTING LIGHTING SHALL BE INCIDENTAL TO "MAINTENANCE OF LIGHTING SYSTEM".
6. EXISTING POLE MOUNTED CAMERAS AND AERIAL CABLE SHALL BE MAINTAINED TO THE EXTENT POSSIBLE WITHIN ACTIVE PARKING AREAS. THE COST OF MAINTAINING EXISTING POLE MOUNTED CAMERAS AND AERIAL CABLE SHALL BE INCIDENTAL TO "REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT".

MAINTAIN EXISTING UNDERGROUND CONDUIT AND CABLE AND RECONNECT WHEN POSSIBLE PER STAGE (TYP.)

APPROXIMATE STAGE LIMIT LINES (TYP.)



USER NAME = #USER#	DESIGNED - JWB	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JWB	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

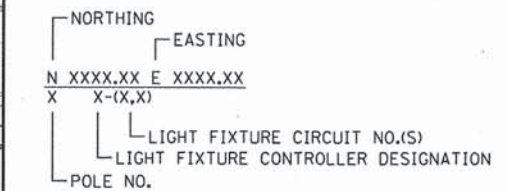
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	76
				CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				

**LIGHT POLE AND CIRCUIT DESIGNATION IDENTIFICATION**



**ELECTRICAL SYMBOLS LEGEND**

- PROPOSED PARKING LIGHTING UNIT, 39'-0" ALUM. POLE (42'-0" M.H.)  
3 - LED LUMINAIRE AT 120 DEGREES, TYPE V, MULTI-VOLT  
(SEE SHEET 80 FOR LIGHT POLE DETAILS)
- PROPOSED PARKING LIGHTING UNIT, 39'-0" ALUM. POLE (42'-0" M.H.)  
2 - LED LUMINAIRE AT 90 DEGREES, TYPE IV, MULTI-VOLT  
(SEE SHEET 80 FOR LIGHT POLE DETAILS)
- PROPOSED PARKING LIGHTING UNIT, 20'-0" ALUM. POLE (23'-0" M.H.)  
1 - LED LUMINAIRE, TYPE III, MULTI-VOLT  
(SEE SHEET 80 FOR LIGHT POLE DETAILS)
- PROPOSED STREET LIGHTING UNIT, DECORATIVE POLE & M.A. (40'-0" M.H.)  
1 - LED LUMINAIRE, TYPE III, MULTI-VOLT  
(SEE SHEETS 81 TO 84 FOR LIGHT POLE DETAILS)
- PROPOSED STREET LIGHTING UNIT, COMBO MAST ARM DECORATIVE POLE  
1 - LED LUMINAIRE, TYPE III, MULTI-VOLT  
(SEE SHEETS TRAFFIC SIGNAL PLANS FOR DETAILS)
- PROPOSED CAMERA  
(SEE SECURITY CAMERA AND COMM. LAYOUT PLAN FOR DETAILS)
- PROPOSED ELECTRICAL HANDHOLE
- PROPOSED ELECTRICAL JUNCTION BOX
- PROPOSED CONDUIT AND WIRE (SEE TABLE BELOW)
- PROPOSED WIRE IN EXISTING CONDUIT (SEE TABLE BELOW)
- PROPOSED RIGID GALVANIZED STEEL CONDUIT SLEEVE, 3" DIA.

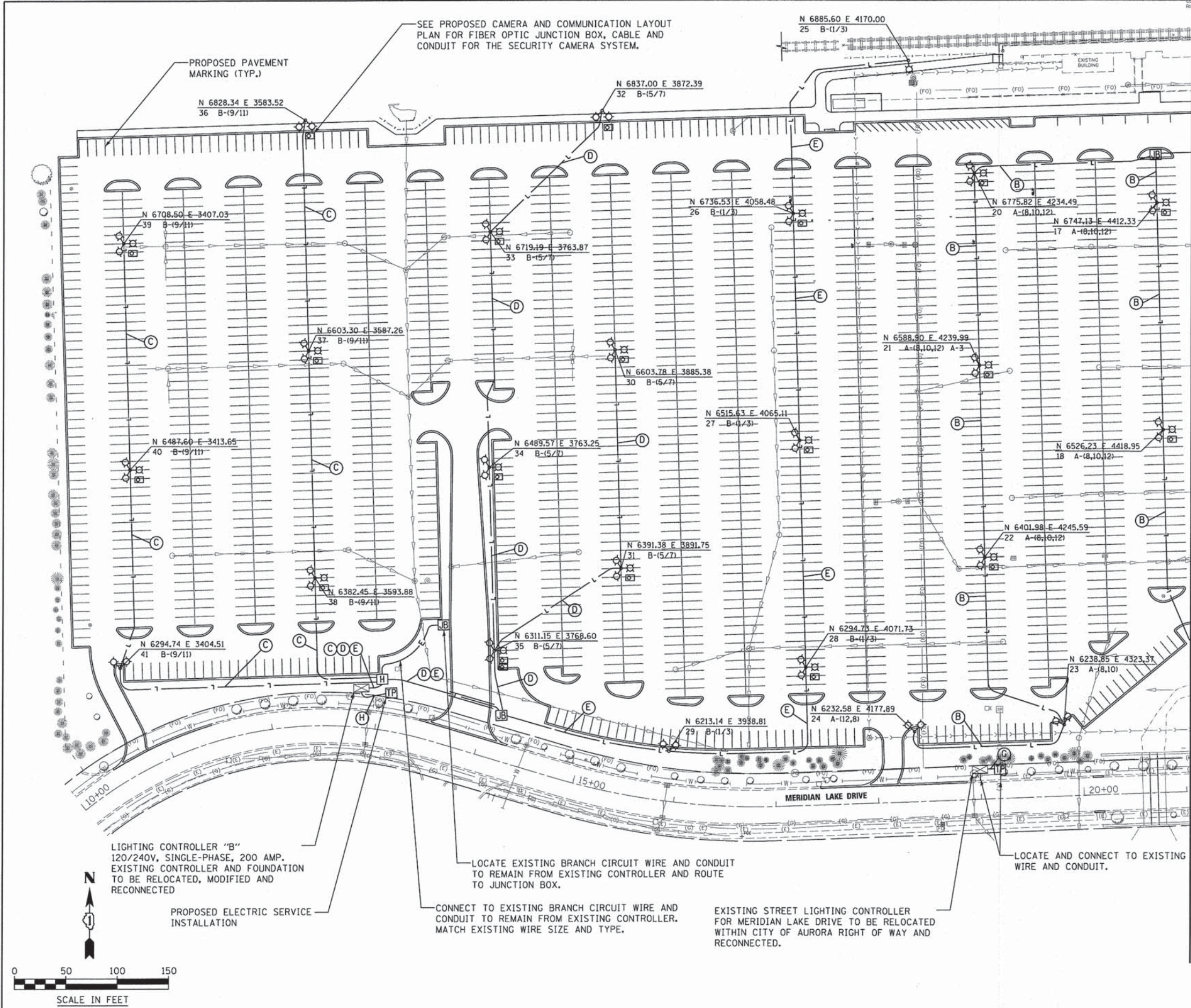
**CONDUIT AND WIRE TABLE**

- (A) UNIT DUCT, 4-1/C #10 & 1/C #10 GND WIRE, 600 VOLT (XLP-TYPE USE), 1" DIA POLYETHYLENE
- (B) UNIT DUCT, 4-1/C #6 & 1/C #6 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (C) UNIT DUCT, 2-1/C #6 & 1/C #6 GND WIRE, 600 VOLT (XLP-TYPE USE), 1" DIA POLYETHYLENE
- (D) UNIT DUCT, 2-1/C #4 & 1/C #4 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (E) UNIT DUCT, 2-1/C #2 & 1/C #2 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (F) 4-1/C #10 & 1/C #10 GND WIRE, 600 VOLT (XLP-TYPE USE) IN EXISTING CONDUIT
- (G) 4-1/C #4 WIRE FOR SERVICE, 600 VOLT (XLP-TYPE USE) IN 1 1/4" DIA U.G. CONDUIT, PVC
- (H) 3-1/C 2/0 WIRE FOR SERVICE, 600 VOLT (XLP-TYPE USE) IN 2" DIA U.G. CONDUIT, PVC
- (I) 3" DIA U.G. CONDUIT, PVC (NO WIRE, WITH PULL ROPE)

**NOTES**

1. SEE SHEET 79 FOR LIGHTING AND ELECTRICAL GENERAL NOTES AND LIGHTING REMOVAL GENERAL NOTES.
2. LIGHT POLES PROPOSED IN PAVEMENT SHALL BE CENTERED ON PAVEMENT MARKING FOR PARKING SPACES.

MATCHLINE SEE SHEET 78



SEE PROPOSED CAMERA AND COMMUNICATION LAYOUT PLAN FOR FIBER OPTIC JUNCTION BOX, CABLE AND CONDUIT FOR THE SECURITY CAMERA SYSTEM.

PROPOSED PAVEMENT MARKING (TYP.)

N 6828.34 E 3583.52  
36 B-(9/11)

N 6837.00 E 3872.39  
32 B-(5/7)

N 6885.60 E 4170.00  
25 B-(1/3)

N 6708.50 E 3407.03  
39 B-(9/11)

N 6719.19 E 3763.87  
33 B-(5/7)

N 6736.53 E 4058.48  
26 B-(1/3)

N 6775.82 E 4234.49  
20 A-(8,10,12)

N 6747.13 E 4412.33  
17 A-(8,10,12)

N 6603.30 E 3587.26  
37 B-(9/11)

N 6603.78 E 3885.38  
30 B-(5/7)

N 6588.90 E 4239.99  
21 A-(8,10,12) A-3

N 6515.63 E 4065.11  
27 B-(1/3)

N 6526.23 E 4418.95  
18 A-(8,10,12)

N 6487.60 E 3413.65  
40 B-(9/11)

N 6489.57 E 3763.25  
34 B-(5/7)

N 6391.38 E 3891.75  
31 B-(5/7)

N 6401.98 E 4245.59  
22 A-(8,10,12)

N 6382.45 E 3593.88  
38 B-(9/11)

N 6311.15 E 3768.60  
35 B-(5/7)

N 6294.75 E 4071.73  
28 B-(1/3)

N 6238.85 E 4323.37  
23 A-(8,10)

N 6294.74 E 3404.51  
41 B-(9/11)

N 6213.14 E 3938.81  
29 B-(1/3)

N 6232.58 E 4177.89  
24 A-(12,8)

LIGHTING CONTROLLER "B"  
120/240V, SINGLE-PHASE, 200 AMP.  
EXISTING CONTROLLER AND FOUNDATION  
TO BE RELOCATED, MODIFIED AND  
RECONNECTED

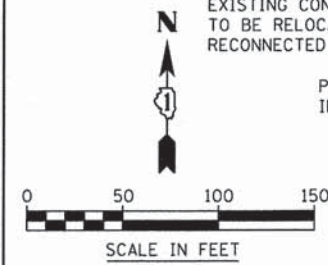
PROPOSED ELECTRIC SERVICE  
INSTALLATION

LOCATE EXISTING BRANCH CIRCUIT WIRE AND CONDUIT  
TO REMAIN FROM EXISTING CONTROLLER AND ROUTE  
TO JUNCTION BOX.

CONNECT TO EXISTING BRANCH CIRCUIT WIRE AND  
CONDUIT TO REMAIN FROM EXISTING CONTROLLER.  
MATCH EXISTING WIRE SIZE AND TYPE.

EXISTING STREET LIGHTING CONTROLLER  
FOR MERIDIAN LAKE DRIVE TO BE RELOCATED  
WITHIN CITY OF AURORA RIGHT OF WAY AND  
RECONNECTED.

LOCATE AND CONNECT TO EXISTING  
WIRE AND CONDUIT.



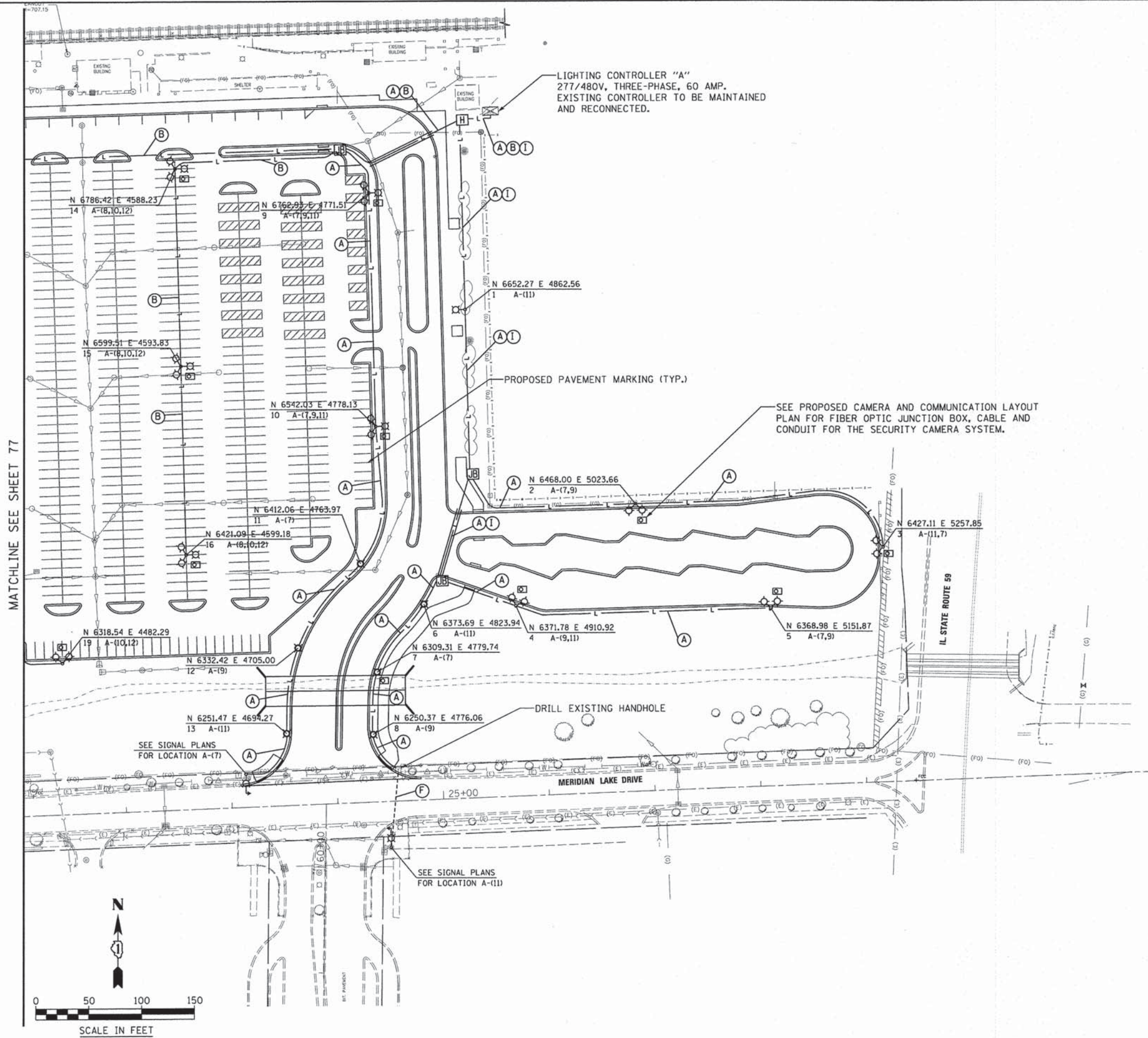
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PLOT SCALE = #SCALE#	DRAWN - JWB	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN

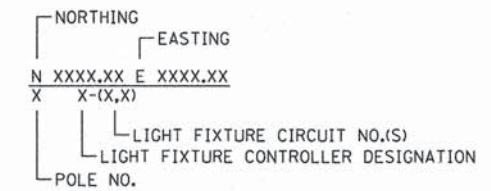
SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	77
				CONTRACT NO. 61B33
ILLINOIS FED. AID PROJECT				



MATCHLINE SEE SHEET 77

**LIGHT POLE AND CIRCUIT DESIGNATION IDENTIFICATION**



**ELECTRICAL SYMBOLS LEGEND**

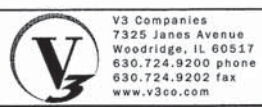
- PROPOSED PARKING LIGHTING UNIT, 39'-0" ALUM. POLE (42'-0"M.H.)  
3 - LED LUMINAIRE AT 120 DEGREES, TYPE V, MULTI-VOLT  
(SEE SHEET 80 FOR LIGHT POLE DETAILS)
- PROPOSED PARKING LIGHTING UNIT, 39'-0" ALUM. POLE (42'-0"M.H.)  
2 - LED LUMINAIRE AT 90 DEGREES, TYPE IV, MULTI-VOLT  
(SEE SHEET 80 FOR LIGHT POLE DETAILS)
- PROPOSED PARKING LIGHTING UNIT, 20'-0" ALUM. POLE (23'-0"M.H.)  
1 - LED LUMINAIRE, TYPE III, MULTI-VOLT  
(SEE SHEET 80 FOR LIGHT POLE DETAILS)
- PROPOSED STREET LIGHTING UNIT, DECORATIVE POLE&M.A. (40'-0"M.H.)  
1 - LED LUMINAIRE, TYPE III, MULTI-VOLT  
(SEE SHEETS 81 TO 84 FOR LIGHT POLE DETAILS)
- PROPOSED STREET LIGHTING UNIT, COMBO MAST ARM DECORATIVE POLE  
1 - LED LUMINAIRE, TYPE III, MULTI-VOLT  
(SEE SHEETS TRAFFIC SIGNAL PLANS FOR DETAILS)
- PROPOSED CAMERA  
(SEE SECURITY CAMERA AND COMM. LAYOUT PLAN FOR DETAILS)
- PROPOSED ELECTRICAL HANDHOLE
- PROPOSED ELECTRICAL JUNCTION BOX
- PROPOSED CONDUIT AND WIRE (SEE TABLE BELOW)
- PROPOSED WIRE IN EXISTING CONDUIT (SEE TABLE BELOW)
- PROPOSED RIGID GALVANIZED STEEL CONDUIT SLEEVE, 3" DIA.

**CONDUIT AND WIRE TABLE**

- (A) UNIT DUCT, 4-1/C #10 & 1/C #10 GND WIRE, 600 VOLT (XLP-TYPE USE), 1" DIA POLYETHYLENE
- (B) UNIT DUCT, 4-1/C #6 & 1/C #6 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (C) UNIT DUCT, 2-1/C #6 & 1/C #6 GND WIRE, 600 VOLT (XLP-TYPE USE), 1" DIA POLYETHYLENE
- (D) UNIT DUCT, 2-1/C #4 & 1/C #4 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (E) UNIT DUCT, 2-1/C #2 & 1/C #2 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (F) 4-1/C #10 & 1/C #10 GND WIRE, 600 VOLT (XLP-TYPE USE) IN EXISTING CONDUIT
- (G) 4-1/C #4 WIRE FOR SERVICE, 600 VOLT (XLP-TYPE USE) IN 1 1/4" DIA U.G. CONDUIT, PVC
- (H) 3-1/C 2/0 WIRE FOR SERVICE, 600 VOLT (XLP-TYPE USE) IN 2" DIA U.G. CONDUIT, PVC
- (I) 3" DIA U.G. CONDUIT, PVC (NO WIRE, WITH PULL ROPE)

**NOTES**

1. SEE SHEET 79 FOR LIGHTING AND ELECTRICAL GENERAL NOTES AND LIGHTING REMOVAL GENERAL NOTES.
2. LIGHT POLES PROPOSED IN PAVEMENT SHALL BE CENTERED ON PAVEMENT MARKING FOR PARKING SPACES.



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Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
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USER NAME = #USER#  
DESIGNED - JWB  
DRAWN - JWB  
CHECKED - MJR  
DATE - 03-04-15

REVISIED -  
REVISIED -  
REVISIED -  
REVISIED -

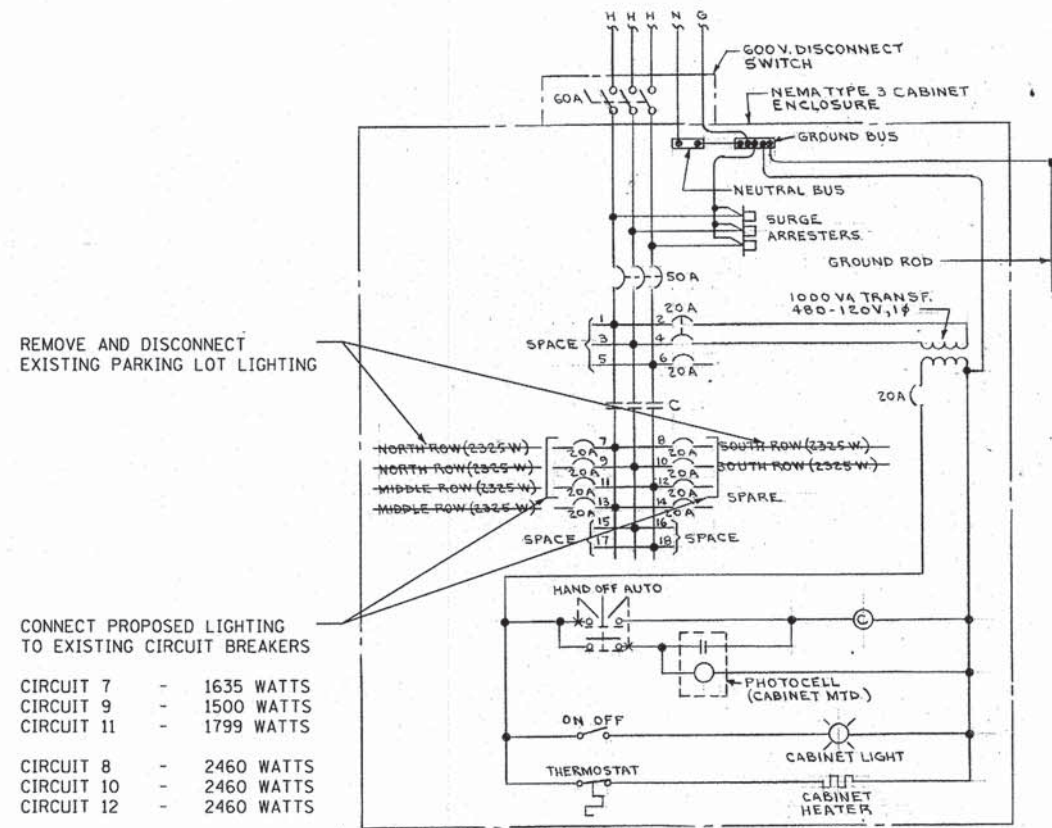
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN**  
SCALE: 1"=50'  
SHEET 2 OF 2 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	78
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

**LIGHTING AND ELECTRICAL GENERAL NOTES**

1. LOCATION OF LIGHTING CONDUIT, DUCT HANDHOLES AND APPURTENANCES ARE SHOWN DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD MUST MEET THE APPROVAL OF THE ENGINEER.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION BY THE ENGINEER. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGURING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED BY THE ENGINEER PRIOR TO STARTING WORK.
3. PRIOR TO INSTALLATION OF THE NEW UNIT DUCT, CONDUITS, JUNCTION BOXES, LIGHT STANDARD FOUNDATION AND APPURTENANCES, THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING CONDUITS, CABLE AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123 OR 811) TO AID IN THIS TASK.
4. NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
5. ALL ELECTRICAL SYSTEMS, EQUIPMENT AND APPURTENANCES SHALL BE PROPERLY GROUNDED IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE.
6. GROUNDING OF POLE AND CONTROLLER INCLUDING GROUND ROD, CONDUCTOR AND LUGS INCLUDING EXOTHERMIC WELD TO GROUND ROD SHALL BE INCIDENTAL TO THE COST OF THE PAY ITEM FOR WHICH IT IS INSTALLED.
7. THE NEW ELECTRICAL INSTALLATION AND MATERIALS MUST MEET REQUIREMENTS OF STANDARDS BY THE FOLLOWING ORGANIZATIONS:
  - ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT)
  - NATIONAL ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)
  - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IES)
  - AMERICAN ASSOCIATION OF TRANSPORTATION OFFICIALS (AATO)
  - U.S. DEPARTMENT OF TRANSPORTATION (USDOT)
  - UNDERWRITERS LABORATORIES (UL)
  - AMERICAN STANDARD INSTITUTE (ASI)
  - INSULATED POWER AND CABLE ENGINEERS ASSOCIATION (IPCEA)
  - NATIONAL ELECTRICAL SAFETY CODE (NEC)
  - NATIONAL ELECTRICAL CODE 2011
  - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
  - AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING (ANSI/IESNA RP-8)
8. ALL SPlicing MUST BE IN POLE BASES OR JUNCTION BOXES WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS.
9. PARALLEL ELECTRICAL CONDUIT RUNS SHALL BE PLACED IN A COMMON TRENCH WHERE POSSIBLE.
10. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH ELECTRICAL HANDHOLE THEY PASS THROUGH AS WELL AS EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT. BOXES SHALL BE EQUIPPED FOR THE GROUNDING WIRE TERMINATIONS WITHOUT DEGRADATION OF BOX RATING.
11. ELECTRICAL SERVICE SHALL BE 277/480 VOLT THREE-PHASE OR 120/240 VOLT SINGLE-PHASE AS NOTED IN THE PLANS.
12. INSTALL CABLE IN CONTINUOUS UN-CUT LENGTHS BETWEEN HANDHOLES, JUNCTION BOXES AND LIGHT POLES.
13. ALL UNIT DUCT RUNS SHALL INCLUDE A TRACER WIRE FOR LOCATING. THE COST OF THE TRACE WIRE SHALL BE INCIDENTAL TO THE COST OF THE UNIT DUCT.
14. HANDHOLE COVER ON LIGHT POLES SHALL HAVE STEEL/STAINLESS SCREWS. NO NYLON SCREWS ALLOWED.



**LIGHTING CONTROLLER "A" PANEL WIRING DIAGRAM**  
 277/480V, THREE-PHASE, 4-WIRE  
 EXISTING LAYOUT TO BE MAINTAINED

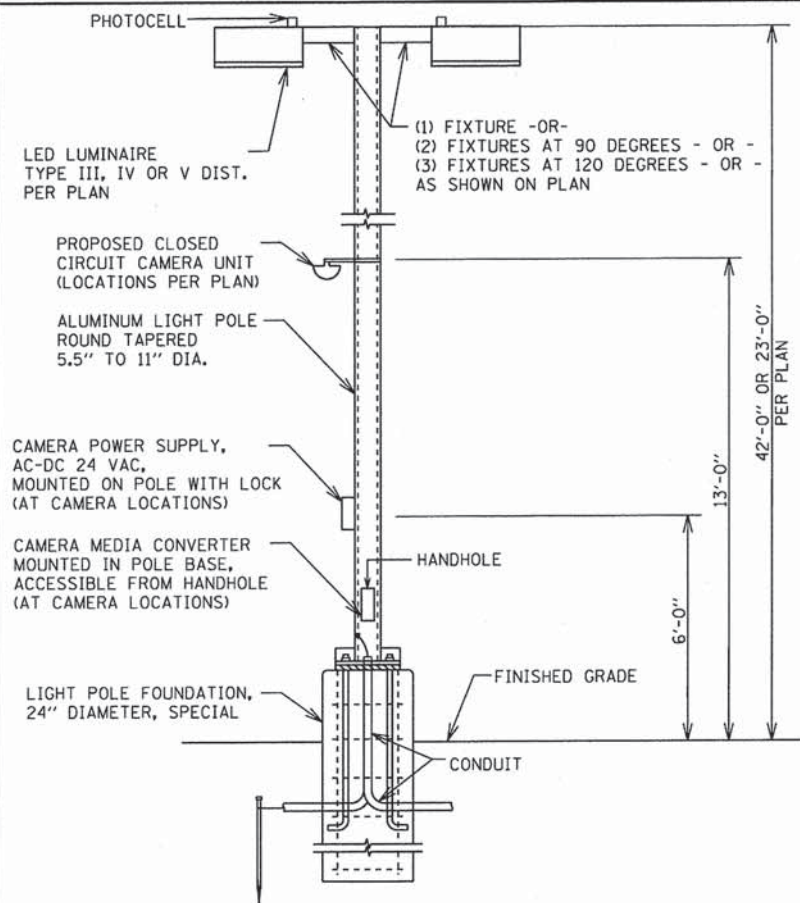
CIRCUIT	CIRCUIT BREAKER	DESCRIPTION	PHASE		DESCRIPTION	CIRCUIT BREAKER	CIRCUIT				
			A	B							
(B) 1	30 A	PARKING LOT LIGHTS	1,435	200*	LIGHT CONTROL	20 A	2				
3				1,435				300*	TICKET BOOTH LIGHT	20 A	4
5				2,091				600*	HEATER	20 A	6
(B) 7	30 A	PARKING LOT LIGHTS			WELL	20 A	8				
9				1,968	200*	UNKNOWN	20 A	10			
11					1,968				1,000*	12	
13	20 A	TICKET MACHINE	500*	200*	UNKNOWN	20 A	14				
15	20 A	TICKET MACHINE		500*			1,000*	16			
17	20 A	UNKNOWN	1,000*					SPACE	18		
19	SPACE					SPACE	20				
(A) 21	150 A	MAIN									
23		MAIN									
			8,194	9,294							

TOTAL CONNECT LOAD: 17,488 VOLT-AMPS  
 TOTAL CONNECT LOAD: 73 AMPS  
 \* ESTIMATED LOADS

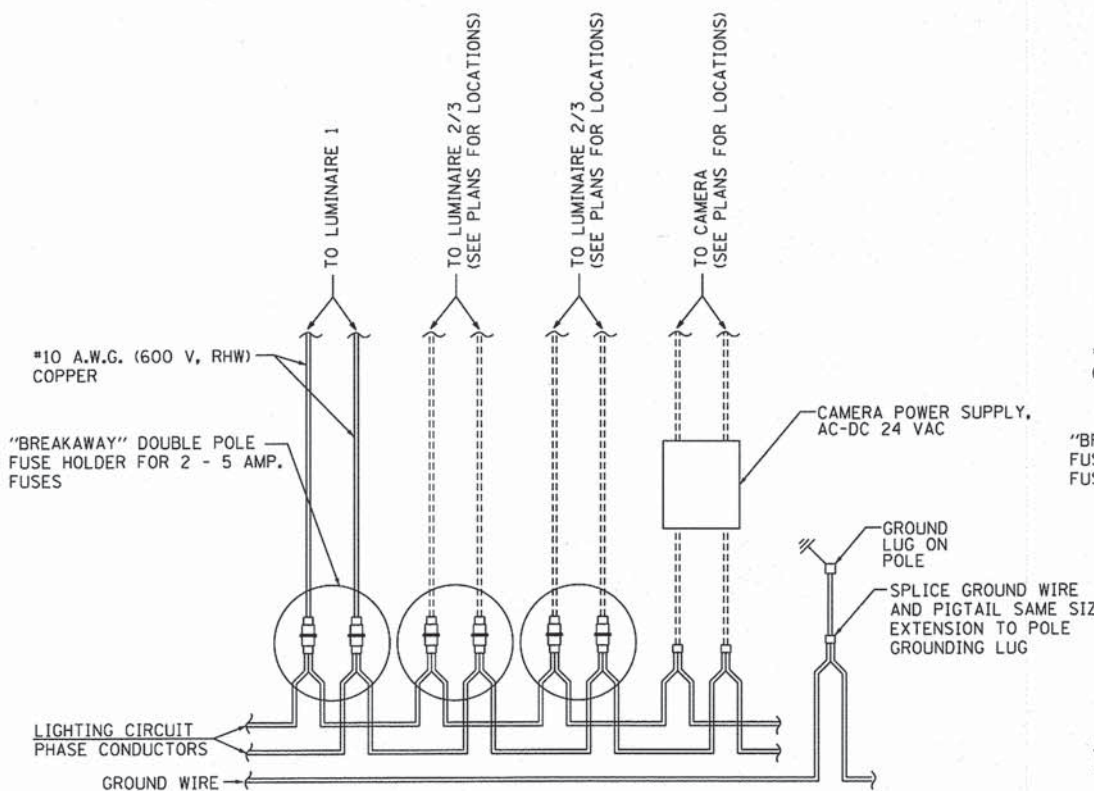
**PANEL EQUIPMENT MODIFICATIONS BILL OF MATERIALS**

ITEM	QUANTITY	DESCRIPTION
(A)	1	MAIN CIRCUIT BREAKER, 2-POLE, 600 VOLT, 150 AMP., NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-20,000 AMP AT 240 VOLT.
(B)	3	CIRCUIT BREAKER, 2-POLE, 30 AMP AT 240V.
(C)	3	1/C #2/0 WIRE (XLP-TYPE USE) 600 VOLT

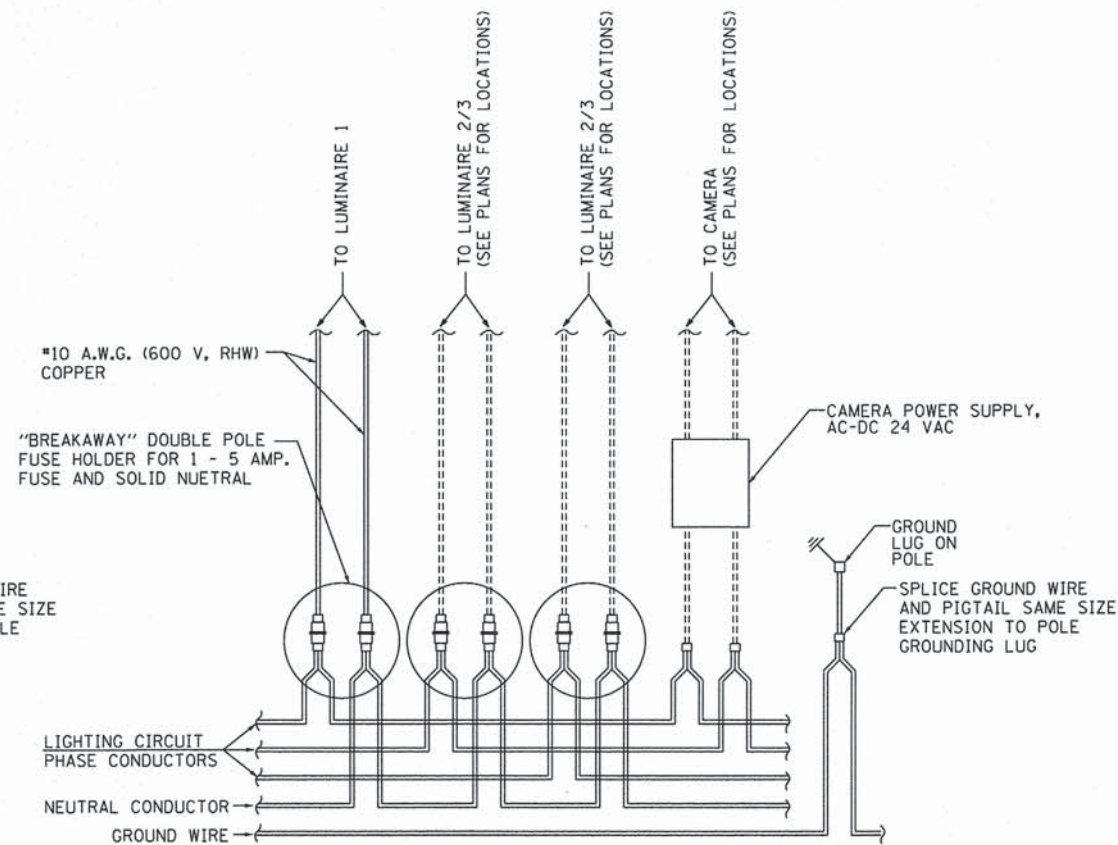
**LIGHTING CONTROLLER "B" PANEL SUMMARY**  
 120/240V, SINGLE-PHASE, 3-WIRE  
 EXISTING LAYOUT TO BE MODIFIED



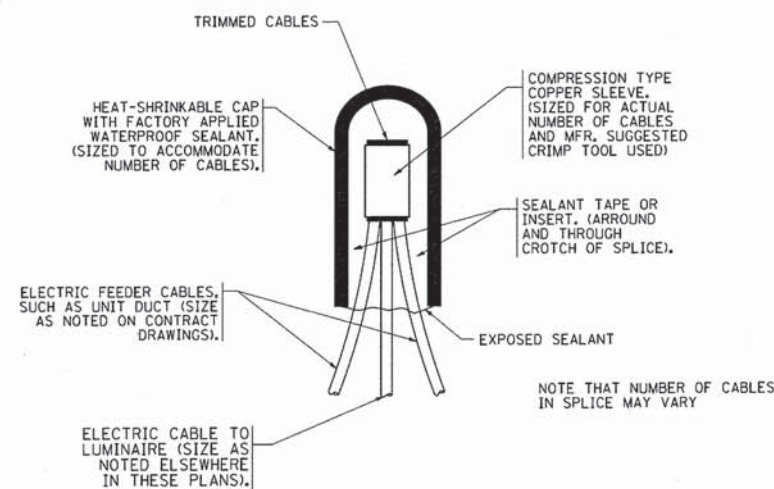
**PARKING LIGHTING UNIT DETAIL**



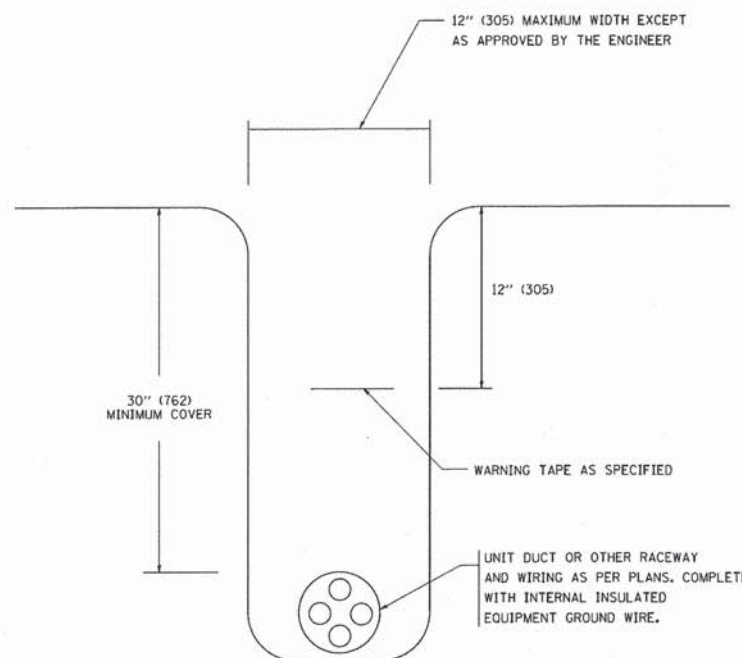
**TYPICAL LIGHT POLE ELECTRICAL WIRING DETAIL  
(120/240V, SINGLE-PHASE LIGHTING SERVICE)**



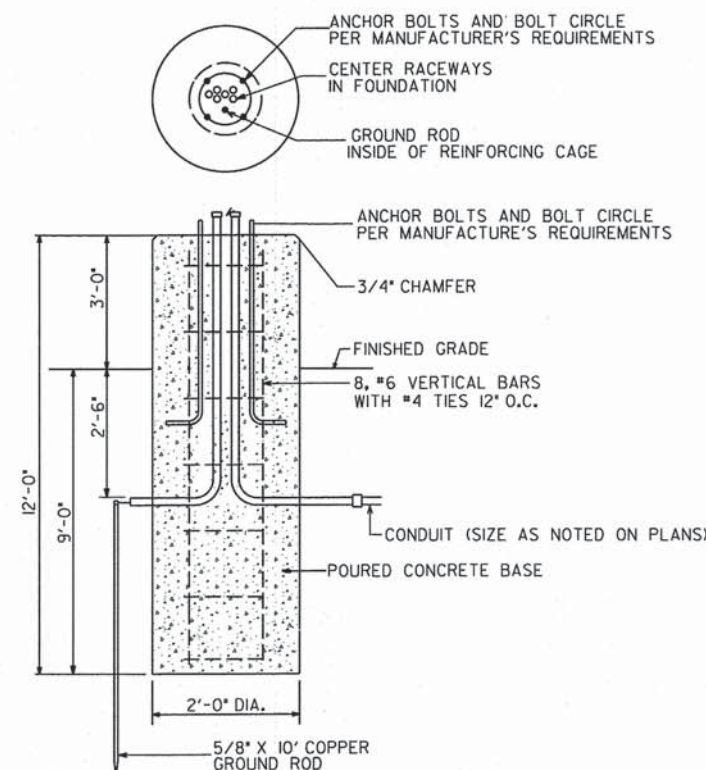
**TYPICAL LIGHT POLE ELECTRICAL WIRING DETAIL  
(277/480V, THREE-PHASE LIGHTING SERVICE)**



**TYPICAL SPLICE DETAIL**



**TYPICAL WIRING IN TRENCH DETAIL**



**LIGHT POLE FOUNDATION, 24\"/>**

**FOUNDATION NOTES:**

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4\"/>



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USER NAME = #USER#  
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DRAWN - JWB  
CHECKED - MJR  
PLOT SCALE = #SCALE#  
PLOT DATE = 3/3/2015

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**STATE OF ILLINOIS  
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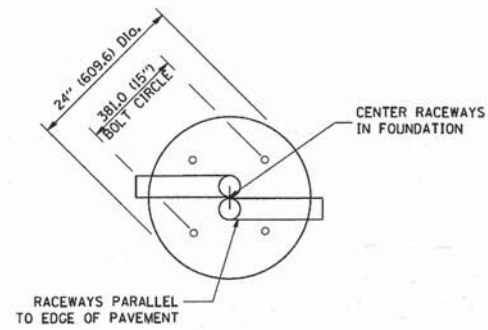
**LIGHTING AND ELECTRICAL DETAILS**  
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	80
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

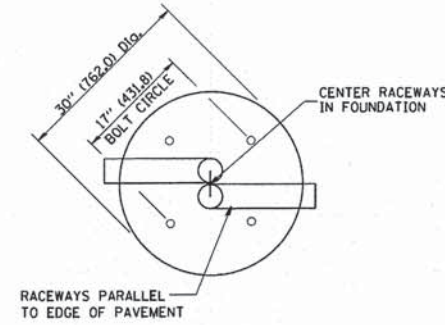


**LIGHT POLE FOUNDATION DEPTH TABLE**  
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O <sub>u</sub> = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY O <sub>u</sub> = 0.75 TON/SO. FT.	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY O <sub>u</sub> = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



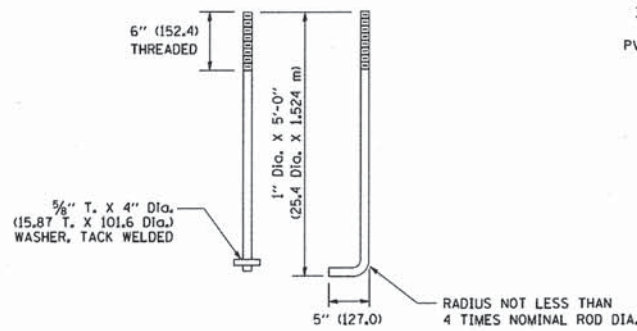
**TOP VIEW**



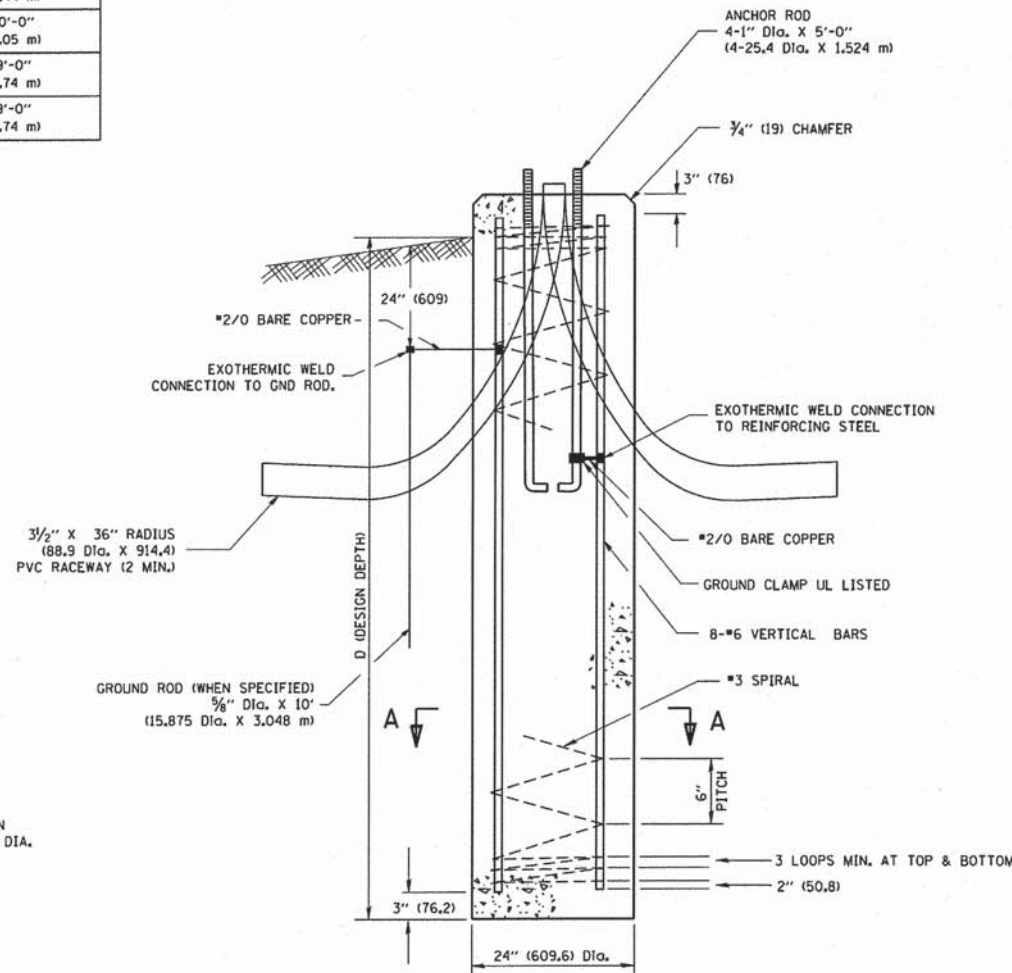
**TOP VIEW**

**NOTES**

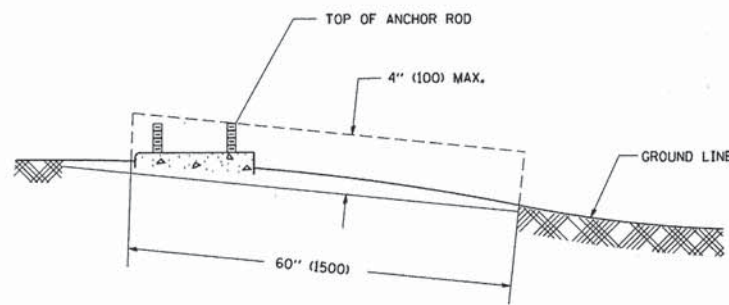
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 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 UMG 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.



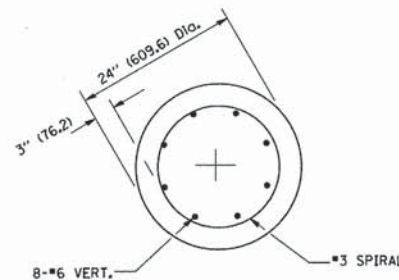
**ANCHOR ROD DETAIL**



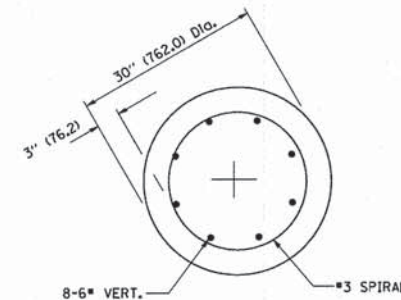
**FOUNDATION DETAIL**



**FOUNDATION EXTENSION DETAIL**



**SECTION A-A**



**SECTION A-A**

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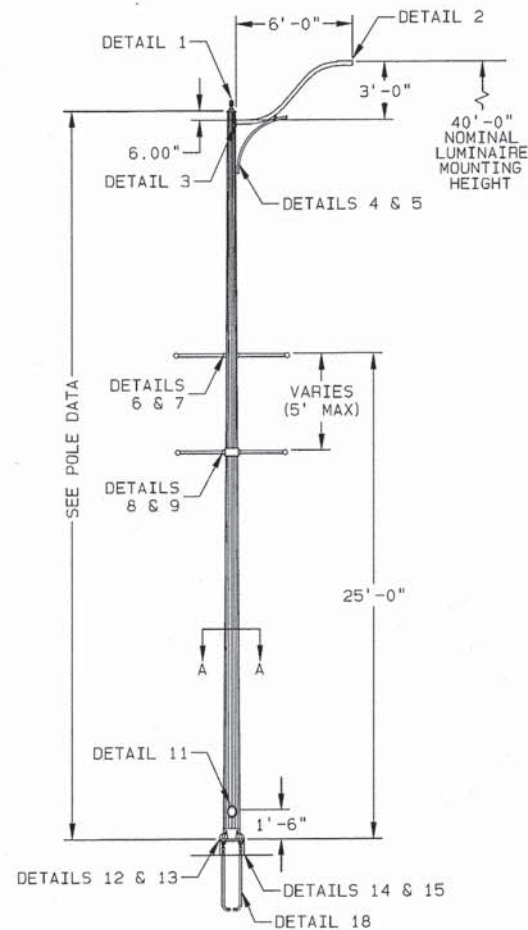
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REVISED -  
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REVISED -

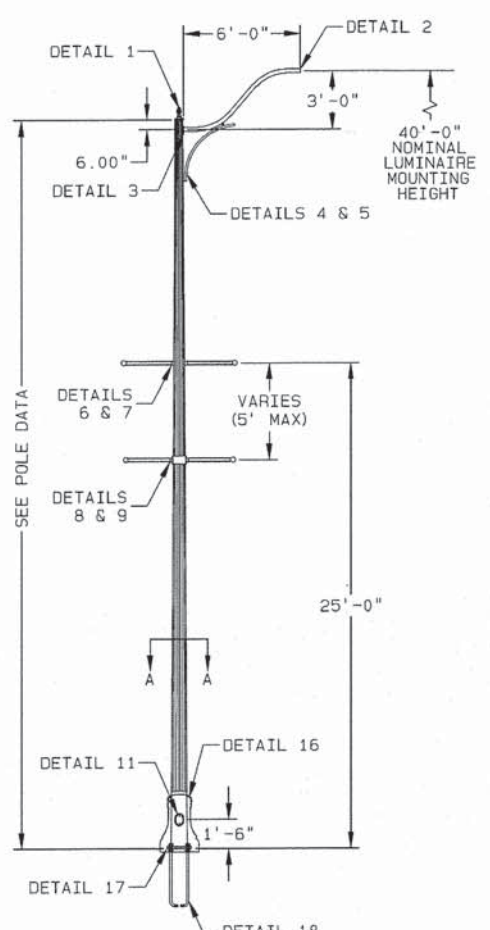
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LIGHT POLE FOUNDATION**  
**40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE**  
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

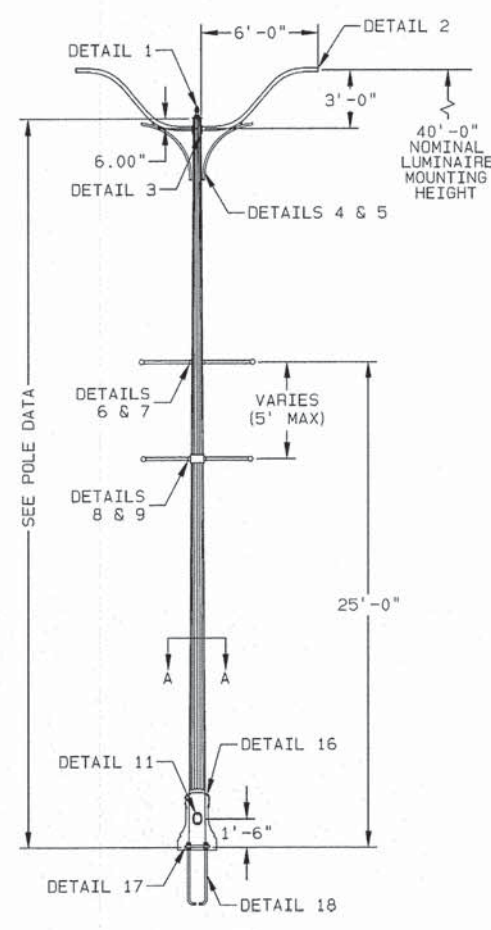
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-301		101	81
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61833	



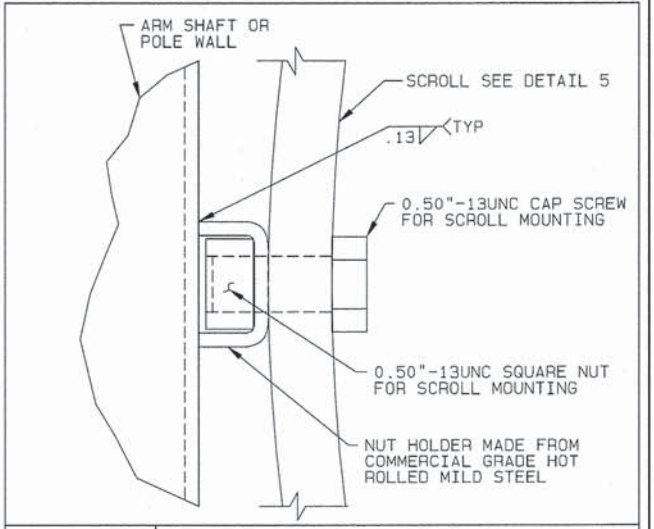
FL805-40S6STBA-BC/SK-A1-AB



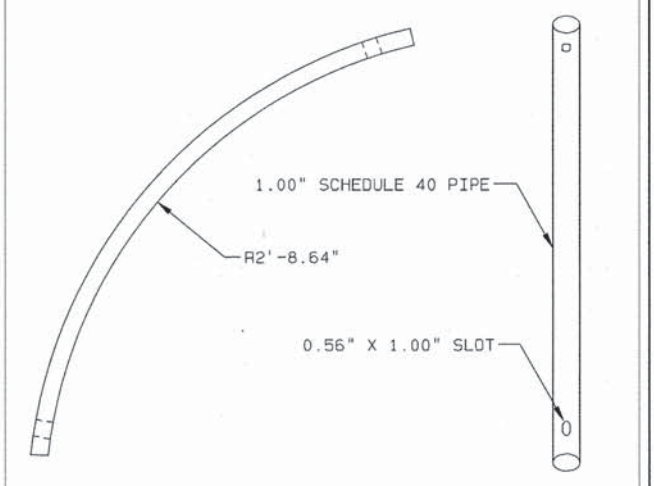
FL805-40S6STBA-HN24EC-C1-AB



FL805-40T6STBA-HN24EC-D1-AB



DETAIL 4 | SCROLL ATTACHMENT



DETAIL 5 | SCROLL ARM

**FINISH DATA**

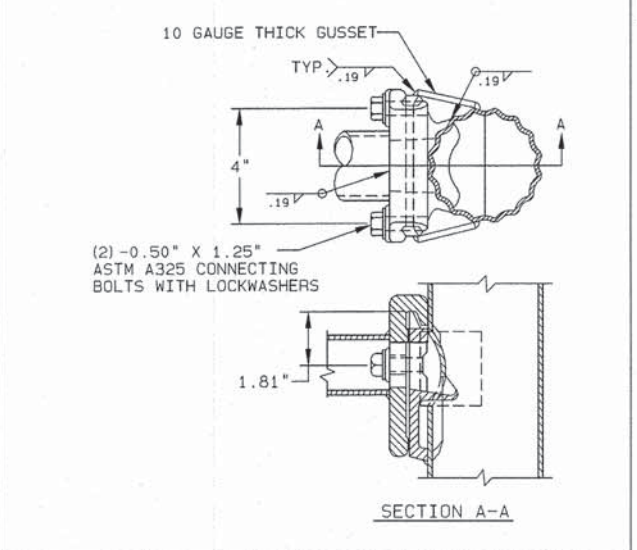
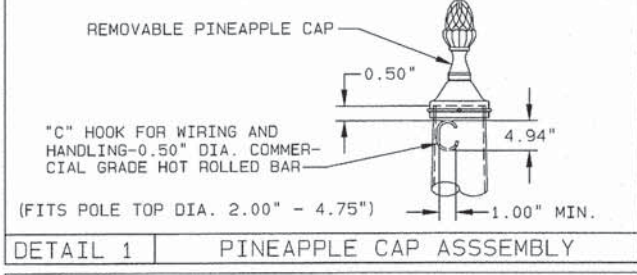
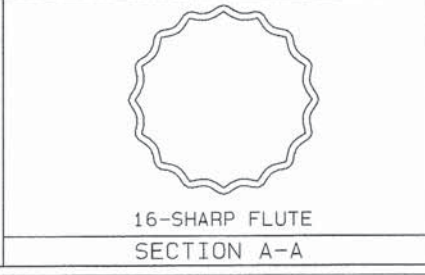
BASE COAT: HOT DIPPED GALVANIZE TO ASTM: A123

PRIME COAT: NEW HIGH BUILD EPOXY POWDER

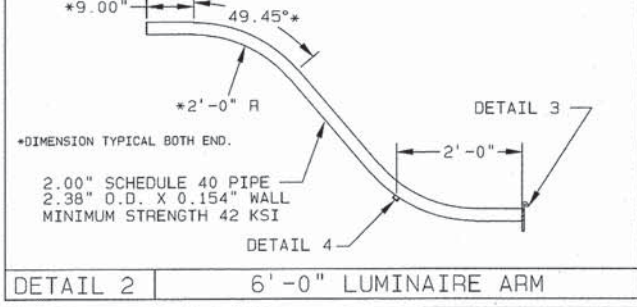
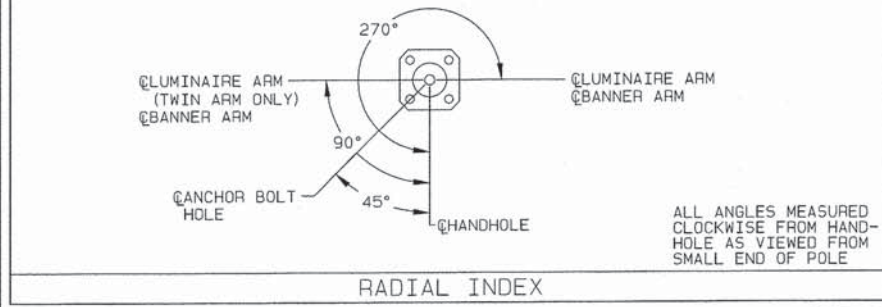
FINISH COAT: TGIC OR SUPER DURABLE POLYESTER POWDER

COLOR: AURORA BLACK

VALMONT SPEC: F-573A (5 YEAR WARRANTY SPEC.)



- NOTES:**
1. ANTI SEIZE FOR HANDHOLE COVER SCREWS PROVIDED BY CONTRACTOR DURING INSTALLATION.
  2. ALL ORIENTATIONS MUST BE VERIFIED PRIOR TO RELEASE FOR PRODUCTION.
  3. OPTIONAL BANNER ARM PLUGS WITH WELDED FLAT PLATE CAN BE PROVIDED (DETAIL 19).
  4. OPTIONAL BLANK BACK HALF CLAMP CAN BE PROVIDED IF A SINGLE BANNER ARM IS USED (DETAIL 20).



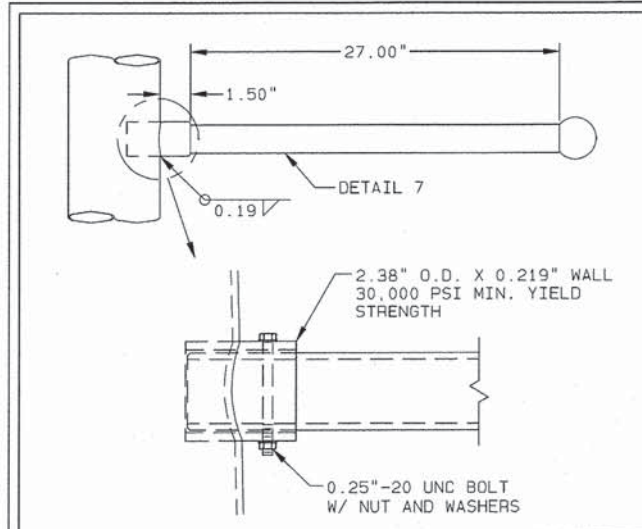
TITLE CITY OF AURORA LIGHTING STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.

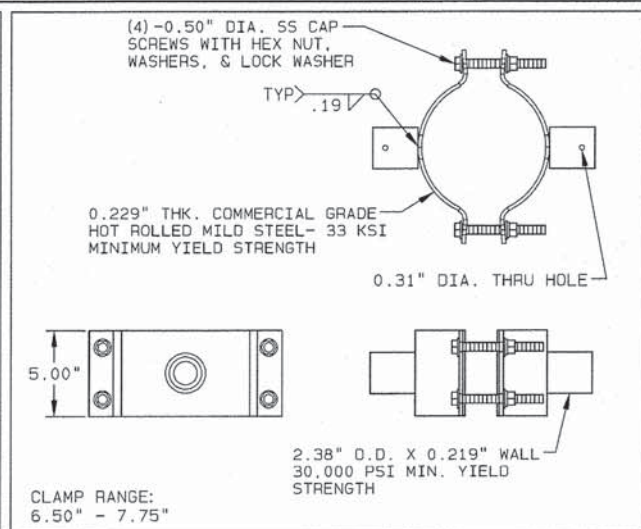
valmont

Valley, NE 68064 (402) 359-2201

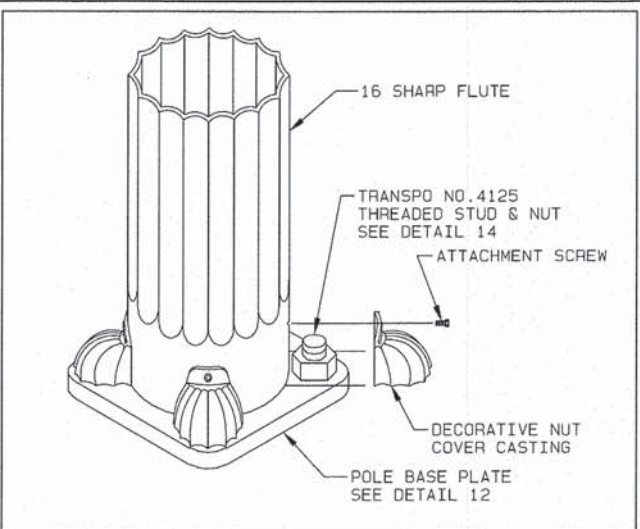
PAGE NUMBER: 4 OF 6  
DRAWING NUMBER: DB00873  
REV: E



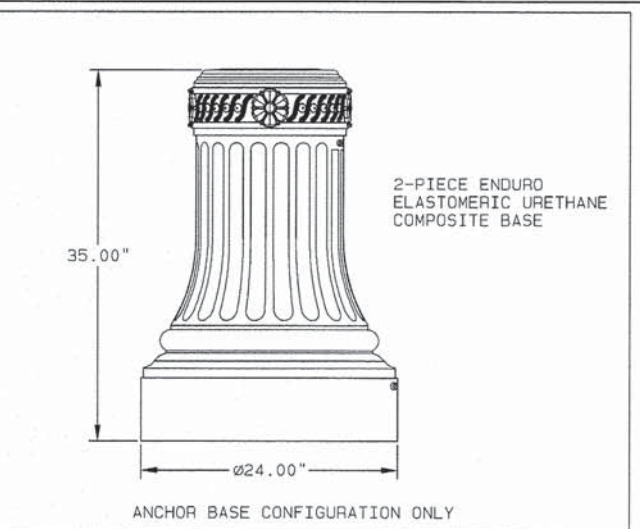
DETAIL 6 BANNER ARM ATTACHMENT



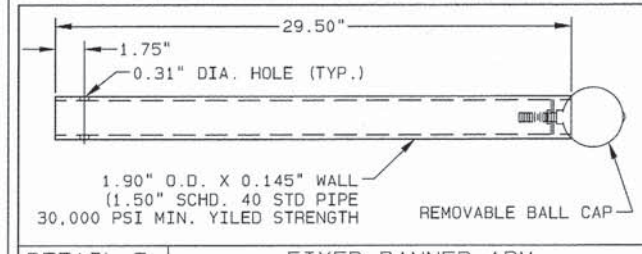
DETAIL 10 BANNER ARM ATTACHMENT-CLAMP



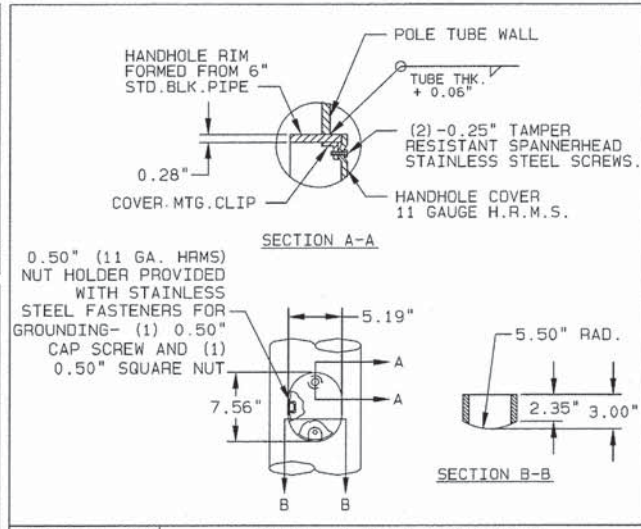
DETAIL 13 DECORATIVE NUT COVER DETAIL



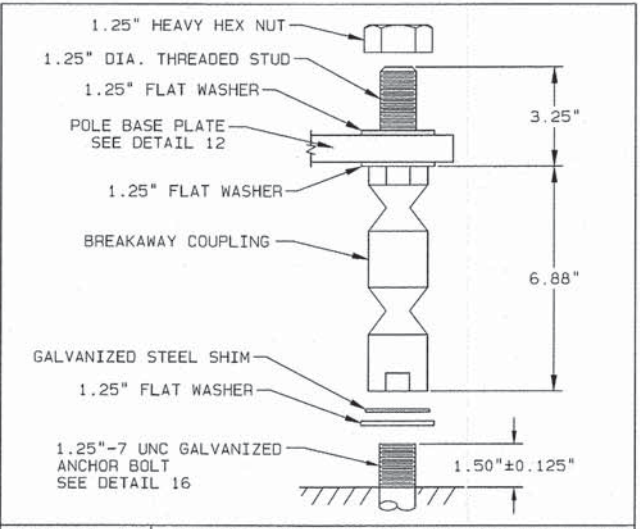
DETAIL 16 HN24EC DECORATIVE BASE



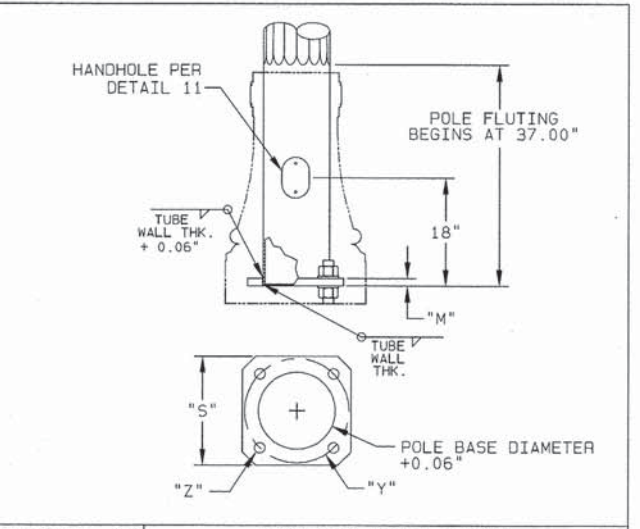
DETAIL 7 FIXED BANNER ARM



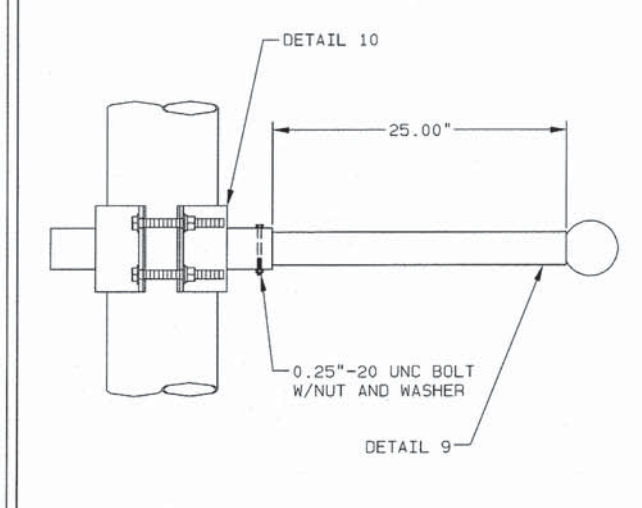
DETAIL 11 SEMI-FLUSH HANDHOLE



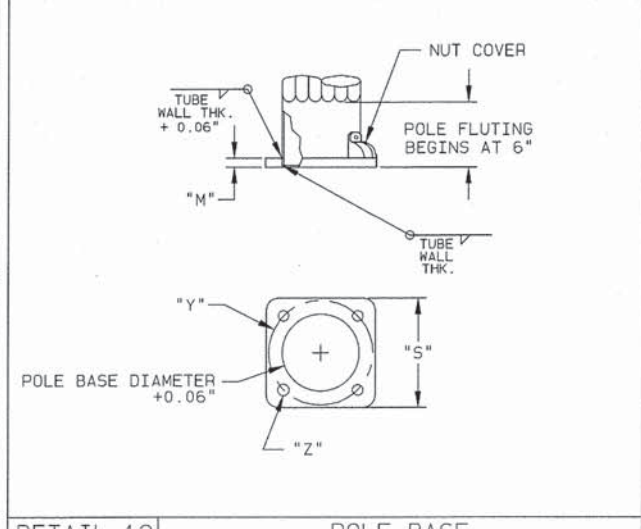
DETAIL 14 TRANSPO NO. 4125 BREAKAWAY COUPLING



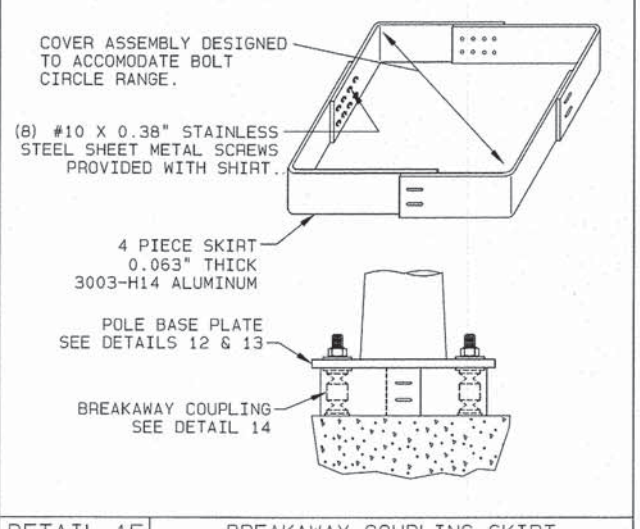
DETAIL 17 HN24EC POLE BASE



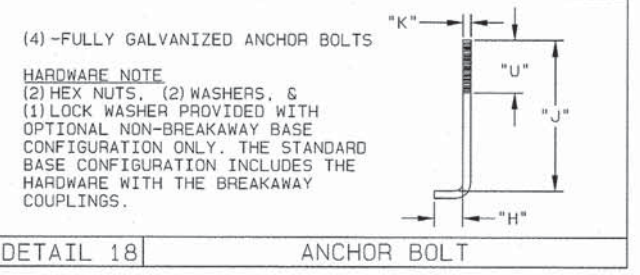
DETAIL 8 CLAMP ON BANNER ARM



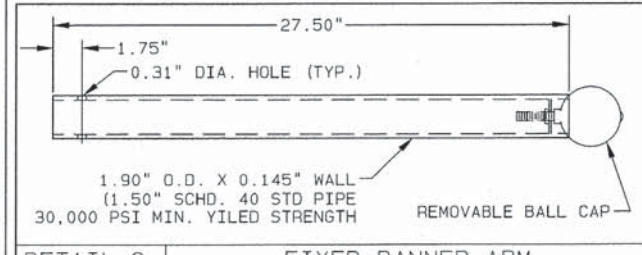
DETAIL 12 POLE BASE



DETAIL 15 BREAKAWAY COUPLING SKIRT



DETAIL 18 ANCHOR BOLT



DETAIL 9 FIXED BANNER ARM

TITLE CITY OF AURORA LIGHTING STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.



PAGE NUMBER: 5 OF 6  
DRAWING NUMBER: DB00873  
REV: E



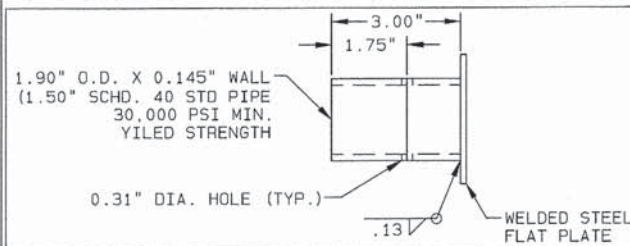
V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#  
DESIGNED - JWB  
DRAWN - JWB  
CHECKED - MJR  
DATE - 03-04-15  
REVISED -  
REVISED -  
REVISED -  
REVISED -

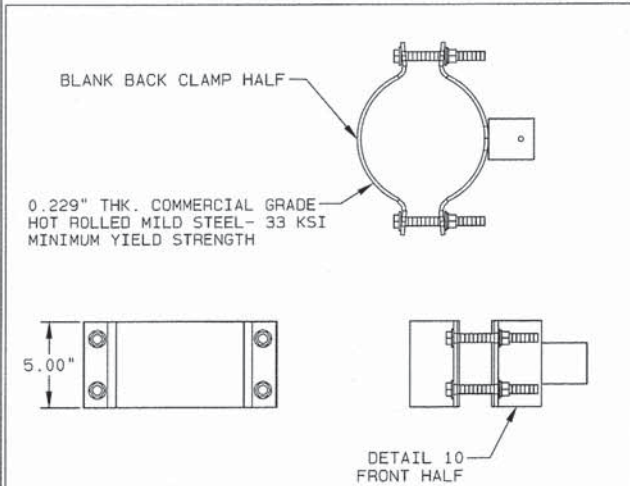
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 59 METRA STATION  
STREET LIGHT POLE AND LUMINAIRE ARM DETAIL  
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK		101	83
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



DETAIL 19 | OPTIONAL BANNER ARM PLUG



DETAIL 20 | OPTIONAL-BANNER ARM BLANK CLAMP

- NOTES:
1. POLE CONFORMS TO ASTM DESIGNATION: A595 GR. A WITH 55,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT.
  2. BASE PLATE CONFORMS TO AASHTO M-270 (ASTM: A709 GR.50).
  3. ANCHOR BOLTS-ALL STRUCTURES: ASTM F1554 GR.55 55,000 P.S.I. MINIMUM YIELD STRENGTH. (AASHTO M314)
  4. CAST POLE TOP CAP-SECURED IN PLACE WITH 3 STAINLESS STEEL SET SCREWS.
  5. ALL NON-STAINLESS THREADED FASTENERS TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).
  6. LUMINAIRE ARM SHAFT CONFORMS TO 2" SCHED. 40 PIPE WITH 36,000 P.S.I. MINIMUM YIELD STRENGTH.
  7. LUMINAIRE ATTACHMENT CONFORMS TO ASTM A27 GR. 65-35.
  8. SHAFT GAUGE OR THICKNESS ARE AS FOLLOWS: 7 GA. = 0.1793".

LOADING AND ALLOWABLE STRESS CRITERIA: 1994 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".

STATE OF ILLINOIS

GENERAL NOTES

POLE AND LUMINAIRE ARM DATA

ITEM	QTY.	POLE TUBE				POLE BASE				ANCHOR BOLT				LUMINAIRE ARM TUBE	
		BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)	PIPE OUTSIDE DIA. (IN)	WALL THICKNESS (IN)
FL805-4056STBA-BC/SK-A1AB		10.00	4.75	37.50	7	15.00	15.00	1.25	1.38 X 1.94	1.25	42.00	6.00	6.00	2.38	0.154
FL805-4056STBA-HN24EC-C1-AB		10.00	4.75	37.50	7	15.00	15.00	1.25	1.38 X 1.94	1.25	42.00	6.00	6.00	2.38	0.154
FL805-40T6STBA-HN24EC-D1-AB		10.00	4.75	37.50	7	15.00	15.00	1.25	1.38 X 1.94	1.25	42.00	6.00	6.00	2.38	0.154

TITLE CITY OF AURORA LIGHTING STRUCTURES

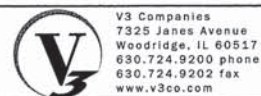
VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.



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PAGE NUMBER: 6 OF 6 DRAWING NUMBER REV

DB00873 E



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#  
PLOT SCALE = #SCALE#  
PLOT DATE = 3/3/2015

DESIGNED - JWB  
DRAWN - JWB  
CHECKED - MJR  
DATE - 03-04-15

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 59 METRA STATION  
STREET LIGHT POLE AND LUMINAIRE ARM DETAIL

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	84
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B33	

**CIRCUIT DESIGNATION IDENTIFICATION**

NUMBER OF FIBER CABLE IN CONDUIT  
NO. 62.5/125, MM12F SM12F

XX  
XX"  
UNIT DUCT SIZE

**CAMERA SYSTEM SYMBOLS LEGEND**

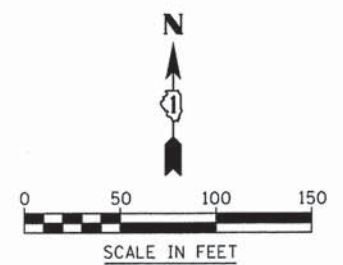
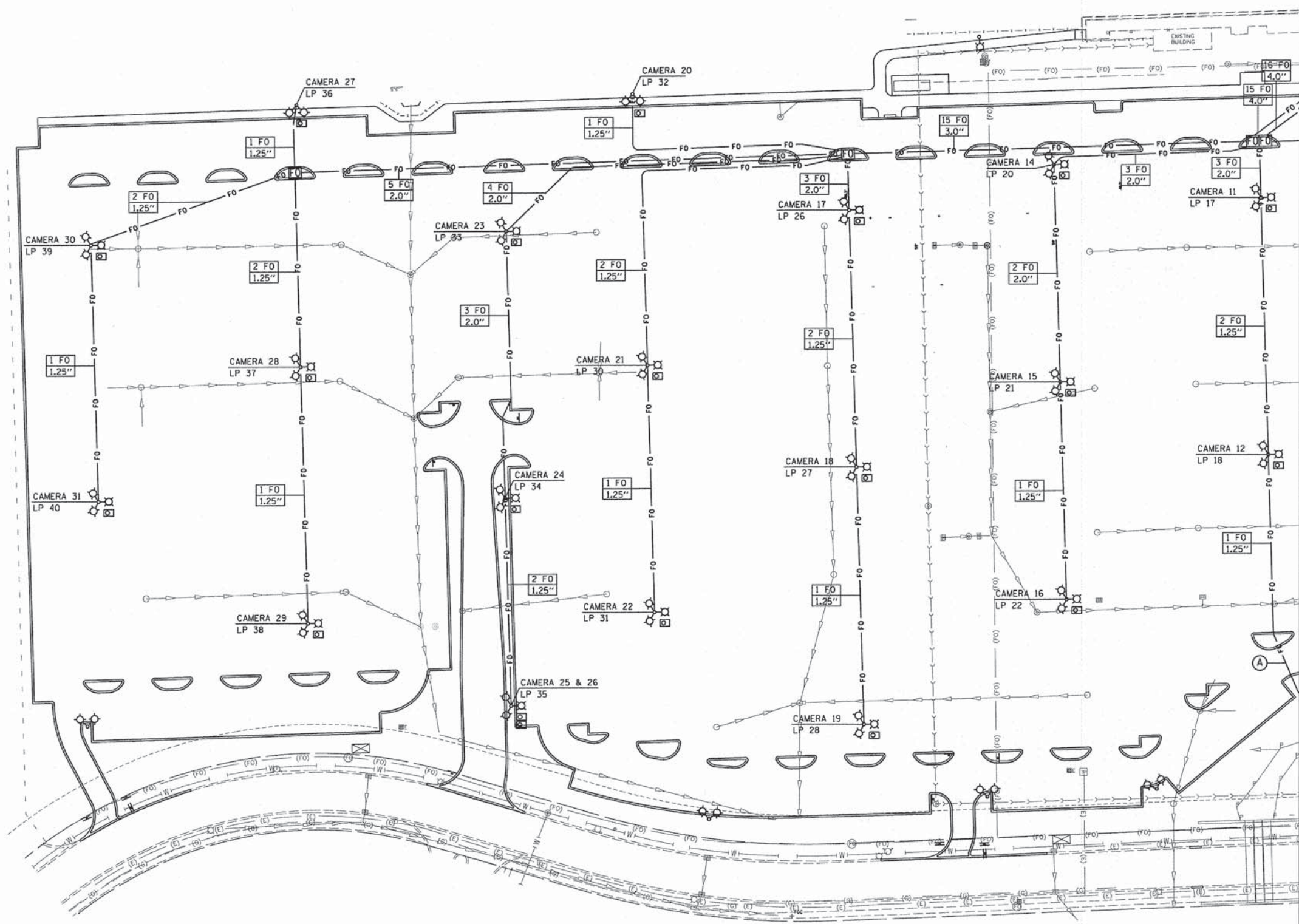
- PROPOSED PARKING LOT LIGHTING
- PROPOSED CIRCUIT CAMERA UNIT, 13'-0" MOUNTING HEIGHT
- PROPOSED 24"x 36" COMMUNICATION JUNCTION BOX
- PROPOSED CONDUIT AND FIBER

**NOTES**

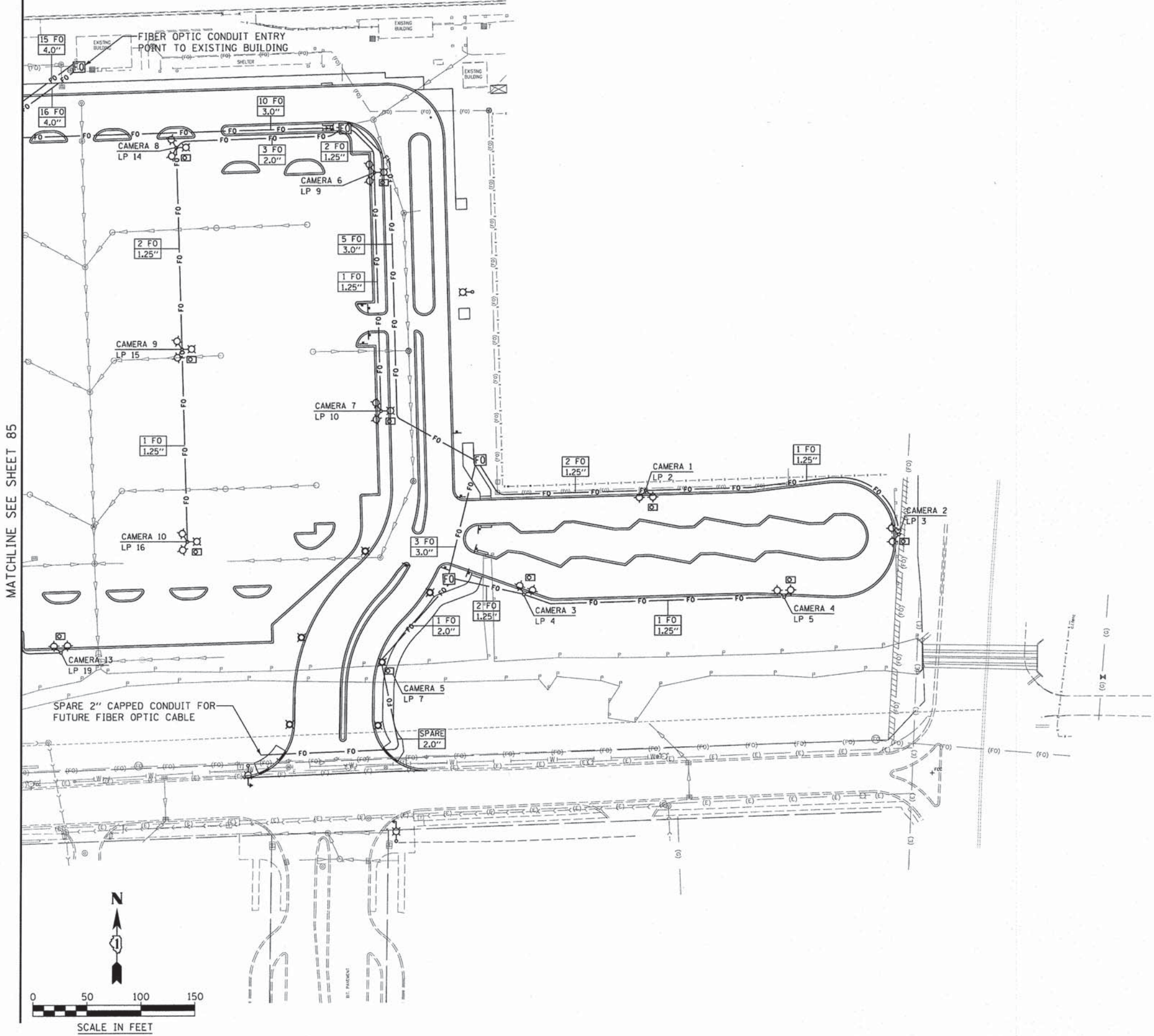
1. SEE LIGHTING AND ELECTRICAL PLANS FOR EXACT POLE LOCATIONS.
2. CAMERA SYSTEM CONDUITS SHALL BE RUN IN COMMON TRENCH WITH SITE LIGHTING AND ELECTRICAL CONDUITS WHEN POSSIBLE.
3. CONTRACTOR TO VERIFY THAT PROPOSED CONDUIT SIZES ARE ADEQUATE FOR FIBER OPTIC CABLE UTILIZED AND UPSIZE IF REQUIRED. THE COST OF ANY MODIFICATIONS TO CONDUIT SIZE SHALL BE INCLUDED IN THE COST OF FIBER OPTIC CABLE AND CONDUIT.
4. ALL FIBER OPTIC CONDUIT TO HAVE NO. 14 IC TRACER WIRE.

MATCHLINE SEE SHEET 86

Commuter Parking Lot Camera Schedule			
Camera	Description	Home Run ID	Cable
1	Bus Drop Off	A	S PR FO
2	Bus Drop Off	B	S PR FO
3	Bus Drop Off	C	S PR FO
4	Bus Drop Off	D	S PR FO
5	East Lot	E	S PR FO
6	East Lot	F	S PR FO
7	East Lot	G	S PR FO
8	East Lot	H	S PR FO
9	East Lot	I	S PR FO
10	East Lot	J	S PR FO
11	East Lot	K	S PR FO
12	East Lot	L	S PR FO
13	Middle Lot	M	S PR FO
14	Middle Lot	N	S PR FO
15	Middle Lot	O	S PR FO
16	Middle Lot	P	S PR FO
17	Middle Lot	Q	S PR FO
18	Middle Lot	R	S PR FO
19	Middle Lot	S	S PR FO
20	Middle Lot	T	S PR FO
21	Middle Lot	U	S PR FO
22	Middle Lot	V	S PR FO
23	West Lot	W	S PR FO
24	West Lot	X	S PR FO
25	West Lot	Y	S PR FO
26	West Lot	Z	S PR FO
27	West Lot	AA	S PR FO
28	West Lot	BB	S PR FO
29	West Lot	CC	S PR FO
30	West Lot	DD	S PR FO
31	West Lot	EE	S PR FO



MATCHLINE SEE SHEET 85



**CIRCUIT DESIGNATION IDENTIFICATION**

NUMBER OF FIBER CABLE IN CONDUIT  
 NO. 62.5/125, MM12F SM12F  
 XX  
 XX"  
 UNIT DUCT SIZE

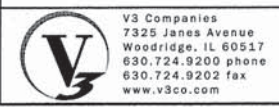
**CAMERA SYSTEM SYMBOLS LEGEND**

- PROPOSED PARKING LOT LIGHTING
- PROPOSED CIRCUIT CAMERA UNIT, 13'-0" MOUNTING HEIGHT
- PROPOSED 24"x 36" COMMUNICATION JUNCTION BOX
- PROPOSED CONDUIT AND FIBER

**NOTES**

1. SEE LIGHTING AND ELECTRICAL PLANS FOR EXACT POLE LOCATIONS.
2. CAMERA SYSTEM CONDUITS SHALL BE RUN IN COMMON TRENCH WITH SITE LIGHTING AND ELECTRICAL CONDUITS WHEN POSSIBLE.
3. CONTRACTOR TO VERIFY THAT PROPOSED CONDUIT SIZES ARE ADEQUATE FOR FIBER OPTIC CABLE UTILIZED AND UPSIZE IF REQUIRED. THE COST OF ANY MODIFICATIONS TO CONDUIT SIZE SHALL BE INCLUDED IN THE COST OF FIBER OPTIC CABLE AND CONDUIT.
4. ALL FIBER OPTIC CONDUIT TO HAVE NO. 14 IC TRACER WIRE.

Commuter Parking Lot Camera Schedule			
Camera	Description	Home Run ID	Cable
1	Bus Drop Off	A	S PR FO
2	Bus Drop Off	B	S PR FO
3	Bus Drop Off	C	S PR FO
4	Bus Drop Off	D	S PR FO
5	East Lot	E	S PR FO
6	East Lot	F	S PR FO
7	East Lot	G	S PR FO
8	East Lot	H	S PR FO
9	East Lot	I	S PR FO
10	East Lot	J	S PR FO
11	East Lot	K	S PR FO
12	East Lot	L	S PR FO
13	Middle Lot	M	S PR FO
14	Middle Lot	N	S PR FO
15	Middle Lot	O	S PR FO
16	Middle Lot	P	S PR FO
17	Middle Lot	Q	S PR FO
18	Middle Lot	R	S PR FO
19	Middle Lot	S	S PR FO
20	Middle Lot	T	S PR FO
21	Middle Lot	U	S PR FO
22	Middle Lot	V	S PR FO
23	West Lot	W	S PR FO
24	West Lot	X	S PR FO
25	West Lot	Y	S PR FO
26	West Lot	Z	S PR FO
27	West Lot	AA	S PR FO
28	West Lot	BB	S PR FO
29	West Lot	CC	S PR FO
30	West Lot	DD	S PR FO
31	West Lot	EE	S PR FO



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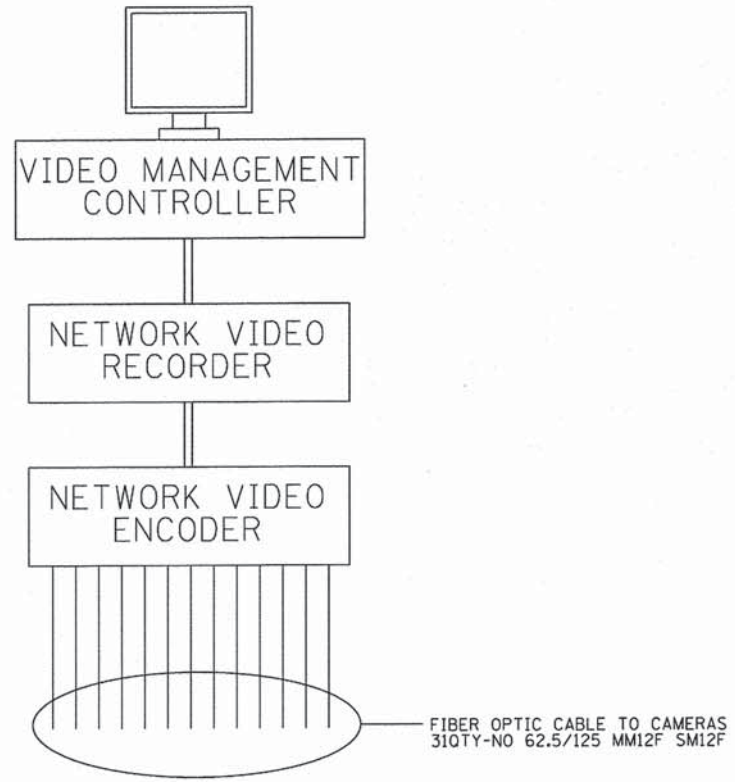
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

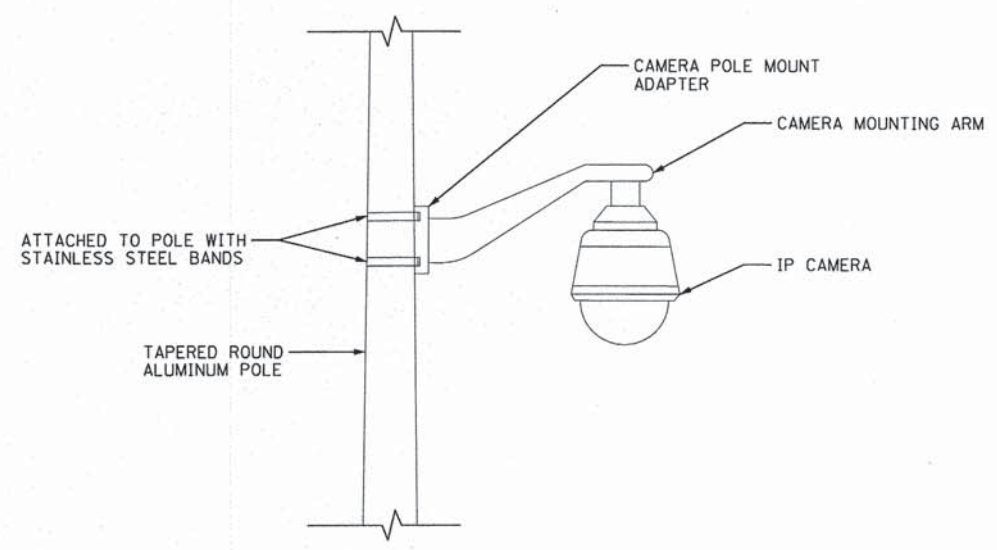
**SECURITY CAMERA AND COMMUNICATION LAYOUT**

SCALE: 1"=50'    SHEET 2 OF 2 SHEETS    STA.    TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	86
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				



**VIDEO SURVEILLANCE SYSTEM CONTROL DETAIL**



**CAMERA MOUNTING ARM DETAIL**



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830.724.9202 fax  
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USER NAME = #USER#	DESIGNED - JWB	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JWB	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SECURITY CAMERA AND COMMUNICATION DETAILS**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	87
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	





BM#1 - City of Aurora Control Monument #31 East  
 Found Brass Disk Southeast corner of Liberty Street and Commons Drive,  
 \*1.3' off back of curb, 4.3' South of back of curb/edge of walk and 1.6' West of curb inlet.  
 DATUM: NAVD88/GEOD 99 Elev.=705.65 held  
 SBM#1 - (CP 113) Set Cut Cross at concrete walk Southwest corner of Meridian Lake Drive and Route 59. Elev.=700.607  
 SBM#2 - (CP 125) Set PK Nail on bituminous path south side of Meridian Parkway. Elev.=694.256

**CULVERT CONSTRUCTION SEQUENCE**

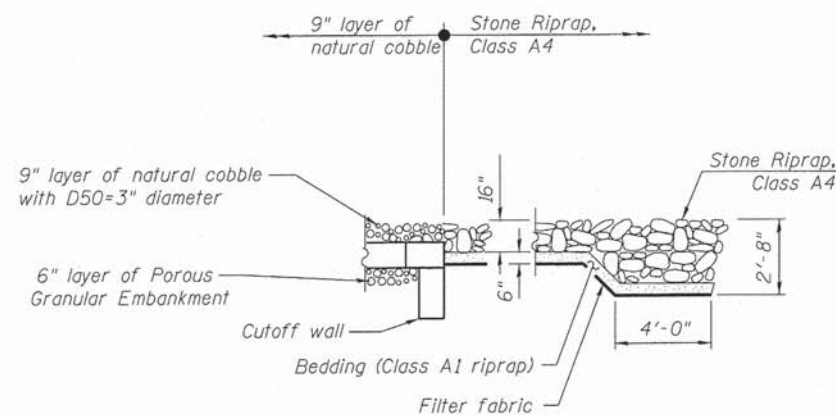
1. Build cutoff wall.
2. Prepare bed.
3. Place precast box culvert sections.
4. Form and place concrete for portion of end sections to be cast onto precast box sections.
5. Drill soldier piles (May be completed prior to box placement).
6. Install timber lagging.
7. Place and compact backfill behind wall to top of timber lagging.
8. Place geocomposite wall drain.
9. Install shear stud connectors.
10. Place rebar and form wall face.
11. Cast concrete wingwall.
12. Remove temp. soldier pile and remaining timber outside wall limits.
13. Place remainder of backfill to proposed ground surface elevations on both sides of wall. (Backfill front of wall as much as possible before backfilling is completed.)
14. Install riprap.

**WATERWAY INFORMATION**

Drainage Area = 1.097 sq. mi. Proposed Overtopping Elev. = 698.00 @ Sta. 30+75

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	142.0	0.00	88.3	692.08	0.00	0.04	692.08	692.12
Design	50	232.0	0.00	144.0	695.08	0.00	0.00	695.08	695.08
Base	100	270.0	0.00	144.0	696.50	0.00	0.00	696.50	696.50
Scour Design Check	-	-	-	-	-	-	-	-	-
Overtopping Existing	-	-	-	-	-	-	-	-	-
Overtopping Proposed	-	-	-	-	-	-	-	-	-
Max. Calc.	500	432.0	0.00	144.0	698.75	0.00	0.00	698.75	698.75

10-Year Velocity through Proposed Bridge = 1.40 ft./sec.



**SECTION A-A**

(See Plan on Sheet 1 of 7 for Section cuts)

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	Upstream	Downstream
	685.35	684.95

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition  
 ASTM C1577

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 36,000$  psi (AASHTO M270, Grade 36)

**PRECAST UNITS**

$f'_c = 5,000$  psi  
 $f_y = 65,000$  psi (Welded wire fabric)

**LOADING HL-93**

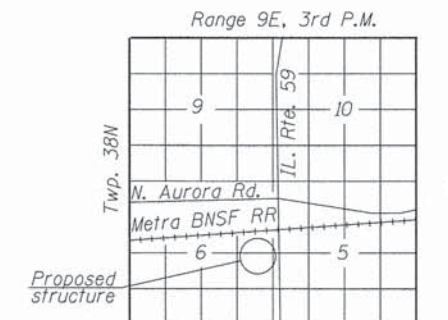
Allow 50#/sq. ft. for future wearing surface.

**INDEX OF SHEETS**

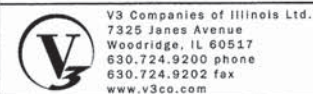
- 1 - General Plan & Elevation
- 2 - Index of Sheets, Bill of Material, and Waterway Information Table
- 3-5 - Box Culvert End Section Details
- 6 - Bar Splicer Assembly Details and Waterproofing Limits
- 7 - Soil Boring Logs

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Precast Concrete Box Culverts 12' x 6'	Foot	258.0
Box Culvert End Sections, Culvert No. 1	Each	2
Membrane Waterproofing for Culverts	Sq. yd.	440.3
Stone Riprap, Class A4	Sq. yd.	61.8
Filter Fabric	Sq. yd.	61.8



**LOCATION SKETCH**



USER NAME =	DESIGNED - CJB	REVISED -
	CHECKED - WJV	REVISED -
PLOT SCALE =	DRAWN - CJB	REVISED -
PLOT DATE =	CHECKED - WJV	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND TOTAL BILL OF MATERIAL

SHEET NO. 2 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	89
CONTRACT NO. 61B33				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
The design fill height for this structure is maximum 2.67 feet and minimum 1.93 feet at edge of roadway. The precast concrete box culvert sections shall conform to the requirements of ASTM C1577.

Areas of the precast box culvert in contact with cast-in-place concrete shall be sand blasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b) of the Standard Specifications.

In order to minimize excessive deflection and/or stresses in the soldier piles, compaction equipment used within 4 feet of the back face of the timber lagging shall be limited to lightweight mechanical tampers, rollers, or vibratory systems.

Build top of headwalls parallel to the grade lines.  
All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.

End Sections will be paid for at the contract unit price each for BOX CULVERT END SECTIONS, CULVERT NO. 1 as outlined in Section 540 of the Standard Specifications.

The box culvert end section shall be built in the field and a precast option is not allowed. Class SI concrete shall be used for the concrete cast in the field for the cutoff walls, portions of the end sections being cast onto the end of the precast box sections, and the concrete facing for the walls.

Concrete, rebar, and welded wire fabric quantities and lengths calculated for the end sections may vary based upon the precast box culverts supplied.

The ends of the precast box sections adjacent to the end sections shall be formed without the tongue and groove shapes specified in Article 8.1 of ASTM C1577.

The longitudinal reinforcement of the welded wire fabric extending from the precast boxes into the end sections shall have a minimum area of 0.20 in<sup>2</sup>/ft. Substitution of reinforcement bars for welded wire fabric is not allowed.

The joints between precast box sections shall be sealed and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place, and protected during the backfilling process.

Due to low fill, provide Membrane Waterproofing for Culverts over the top of the culvert. See Special Provisions.

Note:  
See sheet 4 of 7 for Sections B-B thru E-E.  
See sheet 5 of 7 for Section F-F.

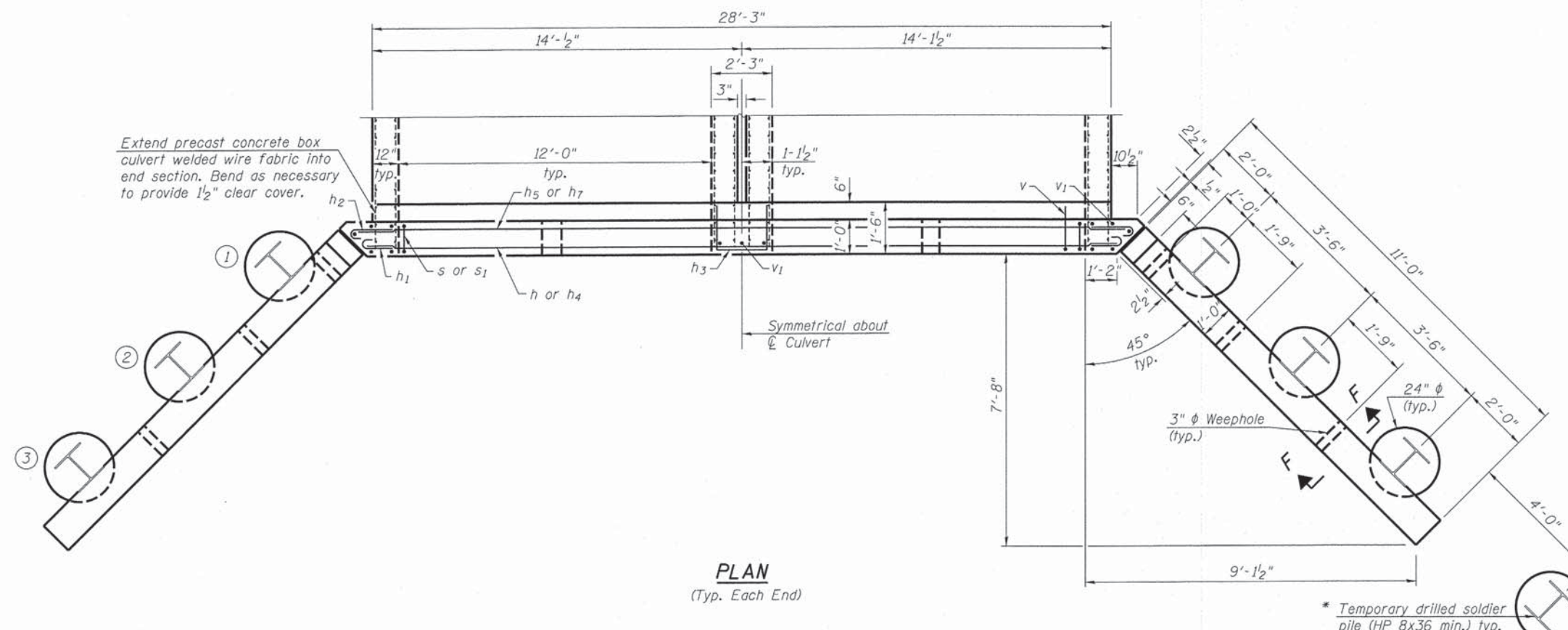
**BILL OF MATERIAL**

Item	Unit	Total
Box Culvert End Sections, Culvert No. 1	Each	2

\* Temporary drilled soldier pile (HP 8x36 min.)

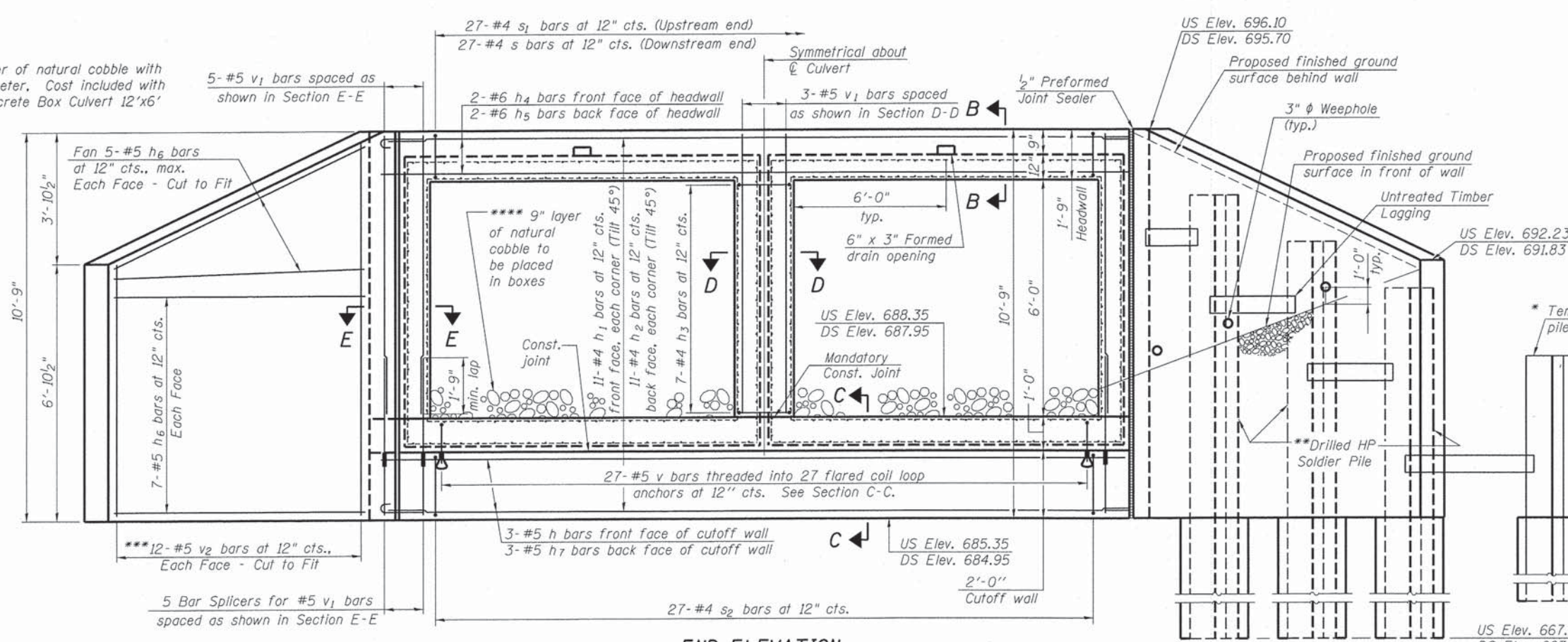
\* The temporary soldier pile is required to facilitate backfilling of the wall prior to casting the concrete face. The temporary soldier pile shall be in accordance with the Special Provisions for Drilled Soldier Pile Retaining Wall except the material for the temporary soldier pile may be new or used. After the concrete face has been allowed to cure, the temporary soldier pile shall be removed 2 ft. below streambed along with adjacent timber lagging. Cost included with Box Culvert End Section.

\*\* See Table A on sheet 5 of 7 for HP Soldier Pile details.



**PLAN**  
(Typ. Each End)

\* Temporary drilled soldier pile (HP 8x36 min.) typ.



**END ELEVATION**

\*\*\*\* 9" layer of natural cobble with D50=3" diameter. Cost included with Precast Concrete Box Culvert 12'x6'

5-#5 v1 bars spaced as shown in Section E-E

Fan 5-#5 h6 bars at 12" cts., max. Each Face - Cut to Fit

7-#5 h6 bars at 12" cts. Each Face

\*\*\* 12-#5 v2 bars at 12" cts., Each Face - Cut to Fit

5 Bar Splicers for #5 v1 bars spaced as shown in Section E-E

\*\*\* See Field Cutting Diagram on sheet 3 of 6.



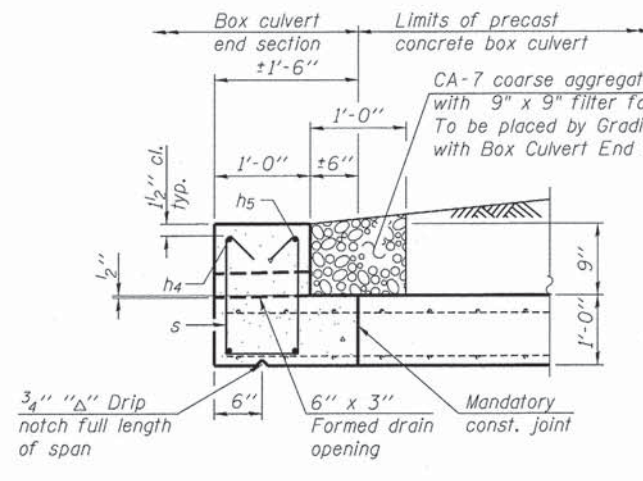
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PLOT SCALE =	CHECKED - WJV	REVISIONS
PLOT DATE =	DRAWN - CJB	REVISIONS
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

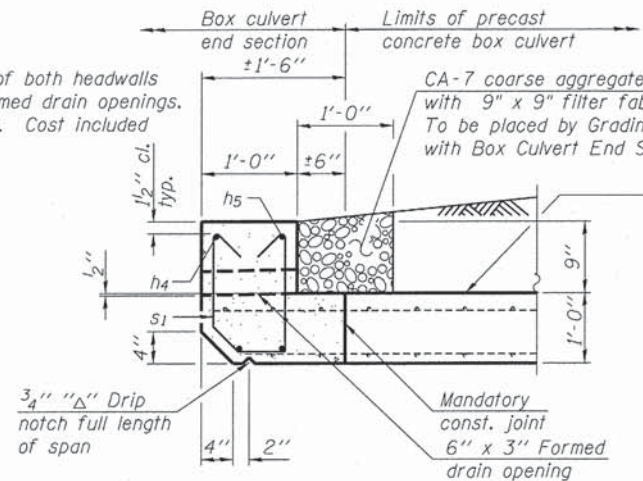
BOX CULVERT END SECTION DETAILS  
STRUCTURE NO. 050-2055

SHEET NO. 3 OF 7 SHEETS

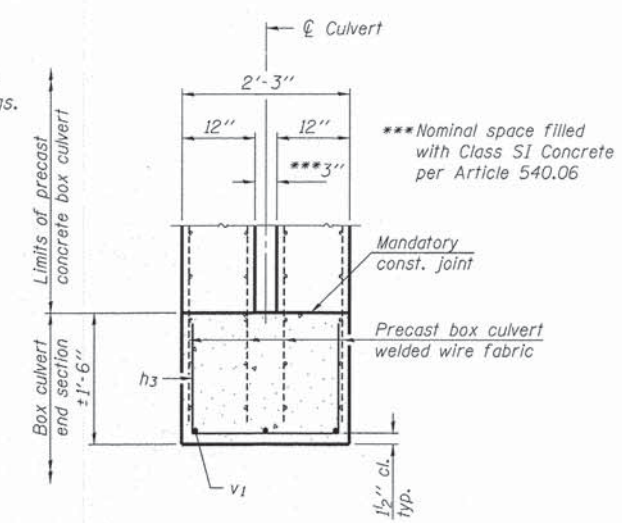
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0084	13-00300-00-PK	DUPAGE	101	90
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



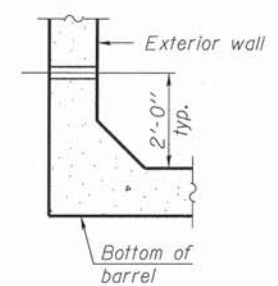
**SECTION B-B**  
(Downstream Section)



**SECTION B-B**  
(Upstream Section)

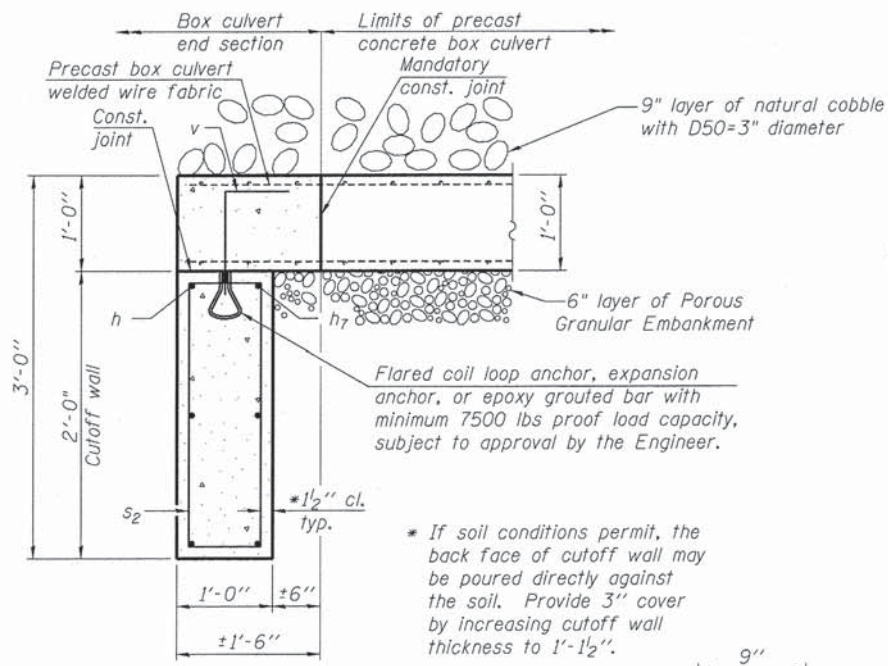


**SECTION D-D**  
(Typ. Both Ends)

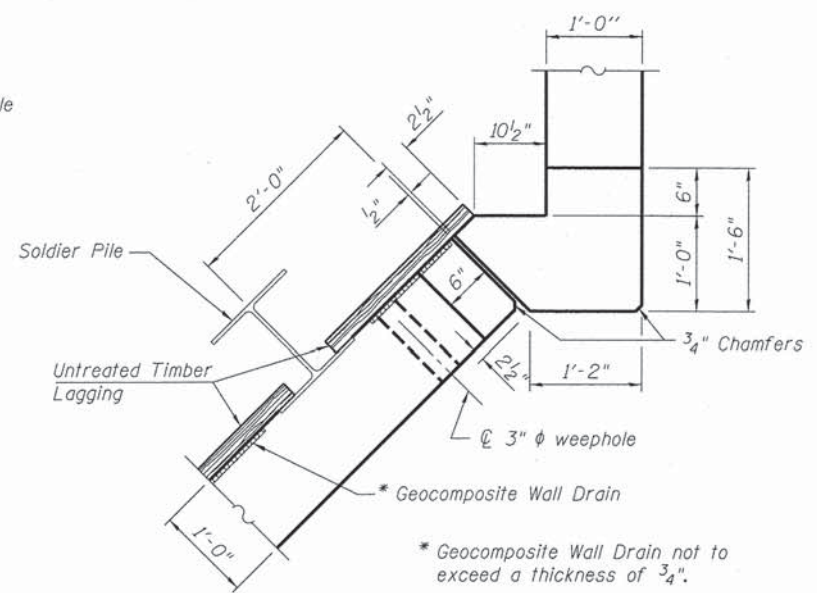


**DRAIN DETAIL**

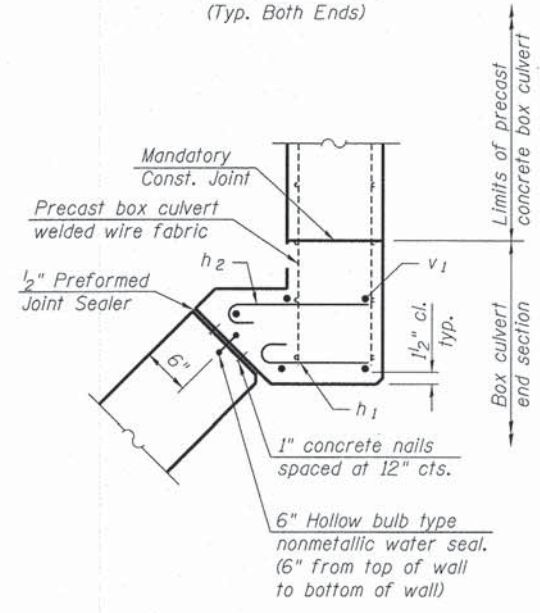
Provide 3"  $\phi$  drain holes in exterior walls at  $\pm 8'$  cts. See Article 503.11 of the Standard Specifications.



**SECTION C-C**



**SECTION E-E**  
(Showing dimensions, wall drain, and weephole)

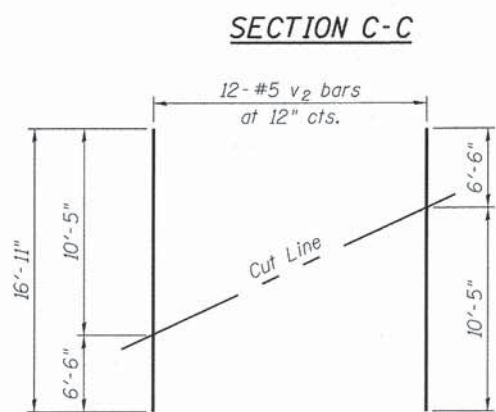


**SECTION E-E**  
(Showing reinforcement and seal)

**ONE END SECTION BILL OF MATERIAL**

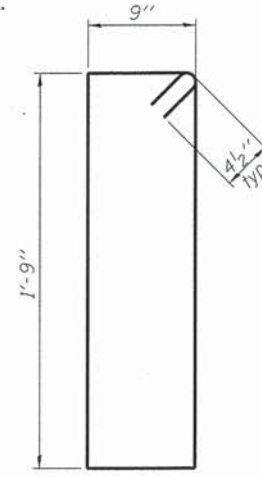
(For information only)

Bar	No.	Size	Length	Shape
h	3	#5	28'-1"	—
h <sub>1</sub>	22	#4	1'-8"	U
h <sub>2</sub>	22	#4	2'-0"	U
h <sub>3</sub>	7	#4	4'-6"	U
h <sub>4</sub>	2	#6	28'-3"	—
h <sub>5</sub>	2	#6	29'-8"	—
h <sub>6</sub>	48	#5	10'-8"	—
h <sub>7</sub>	3	#5	29'-8"	—
s	27	#4	4'-6"	U
s <sub>1</sub>	27	#4	4'-4"	U
s <sub>2</sub>	27	#4	5'-9"	U
v	27	#5	1'-9"	—
v <sub>1</sub>	13	#5	7'-6"	—
v <sub>2</sub>	24	#5	16'-11"	—
Concrete Structures			Cu. Yd.	7.2
Stud Shear Connectors			Each	48
Reinforcement Bars			Pound	1,720
Bar Splicers			Each	10
Furnishing Soldier Piles (HP Section)			Foot	169
Drilling and Setting Soldier Piles (in soil)			Cu. Ft.	367
Untreated Timber Lagging			Sq. Ft.	152
Concrete Box Culverts			Cu. Yd.	7.5
Geocomposite Wall Drain			Sq. Yd.	3

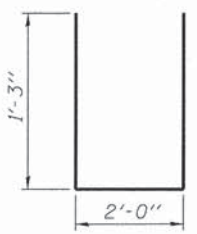


**FIELD CUTTING DIAGRAM**

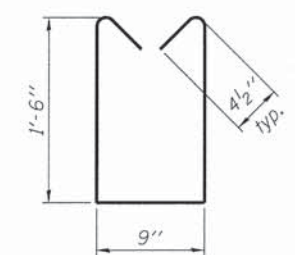
Order v<sub>2</sub> bars full length. Cut to fit and use remainder of bar in opposite face.



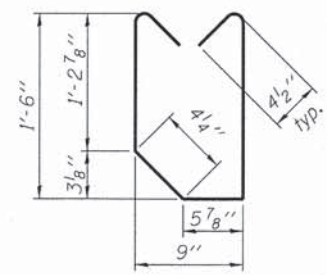
**BAR s<sub>2</sub>**



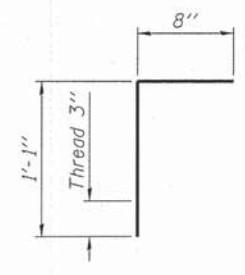
**BAR h<sub>3</sub>**



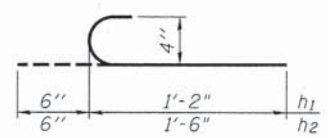
**BAR s**



**BAR s<sub>1</sub>**



**BAR v**



**BARS h<sub>1</sub> and h<sub>2</sub>**

\*\* Only s or s<sub>1</sub> bars are required for each end section.  
The above pay items will not be measured for payment but shall be included in the contract unit price each for Box Culvert End Sections of the culvert number specified.



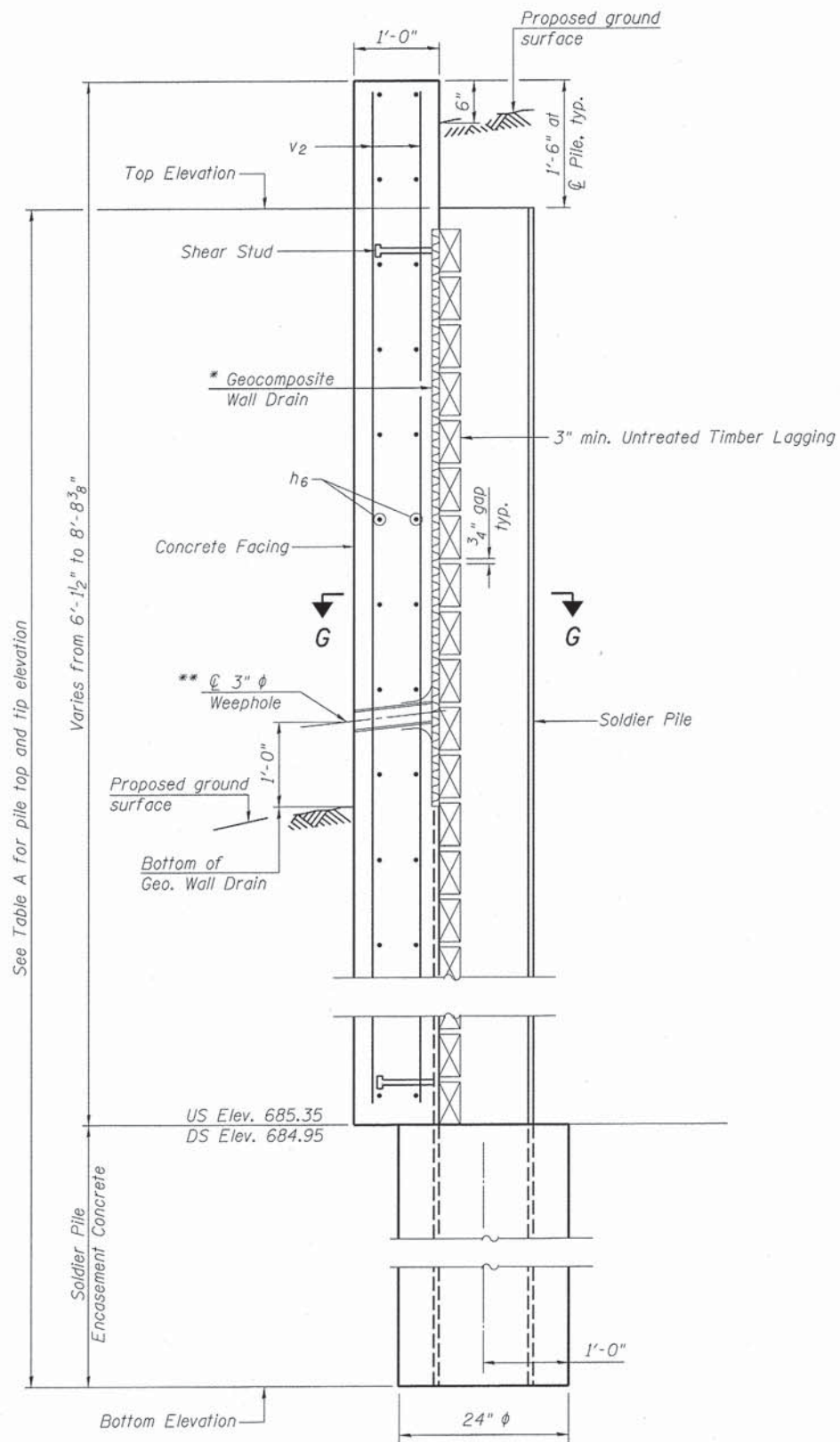
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

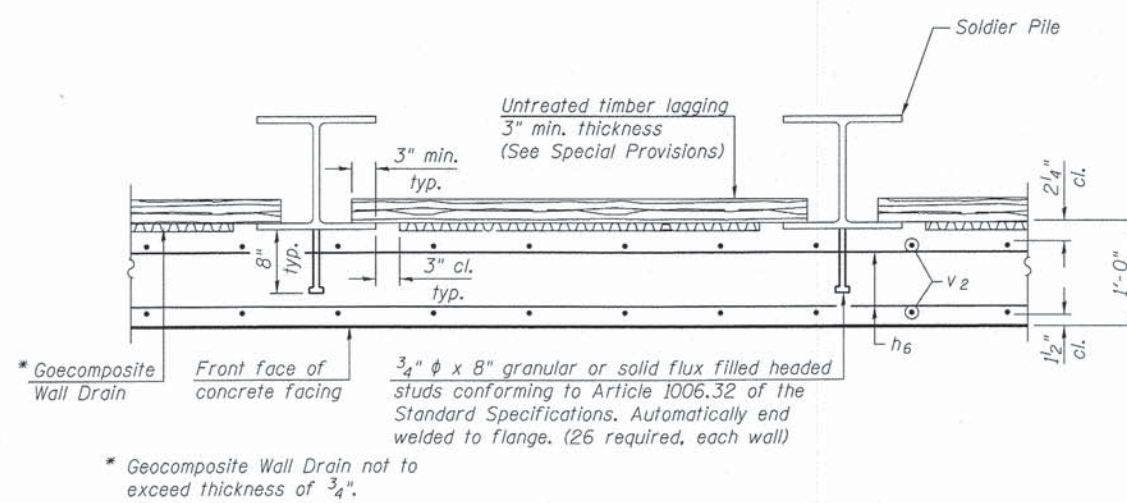
BOX CULVERT END SECTION DETAILS

SHEET NO. 4 OF 7 SHEETS

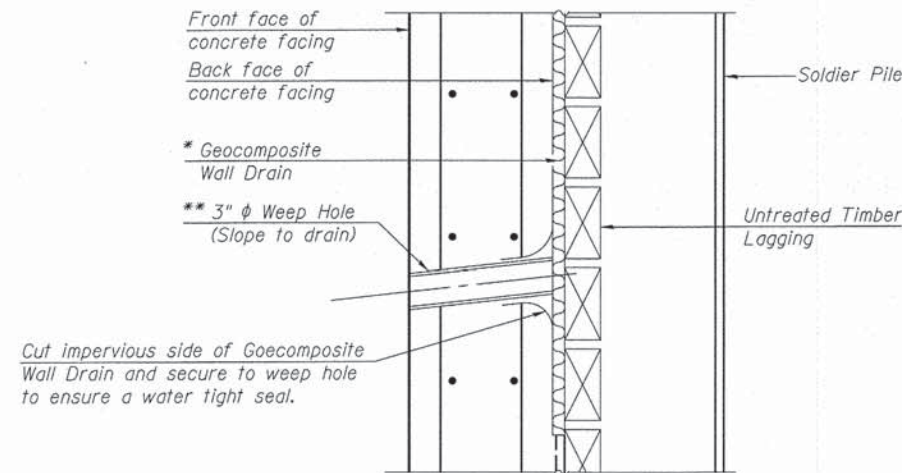
F.A.P. RTE. 0084	SECTION 13-00300-00-PK	COUNTY	TOTAL SHEETS 101	SHEET NO. 91
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	



**SECTION F-F**



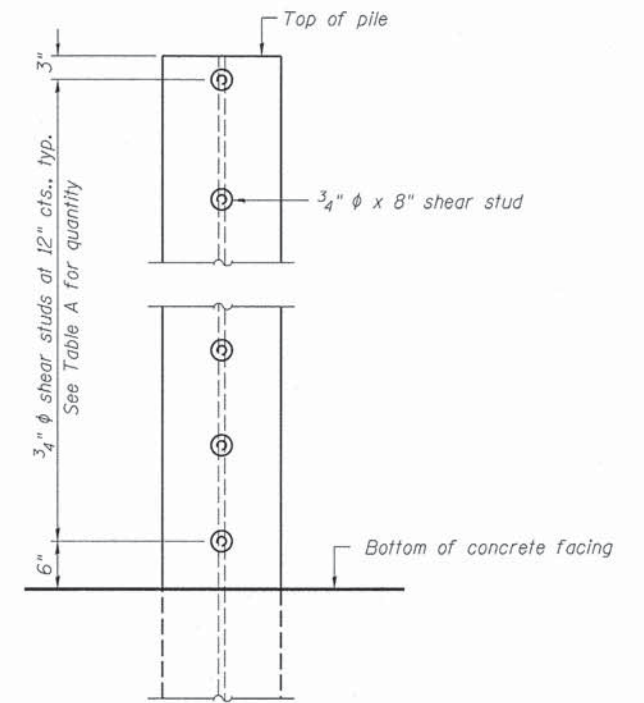
**SECTION G-G**



**WEEP HOLE DRAIN DETAIL**

\*\* Cost of the weep hole drain and the connection to the geocomposite wall drain are included with Box Culvert End Sections.

Note:  
The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.



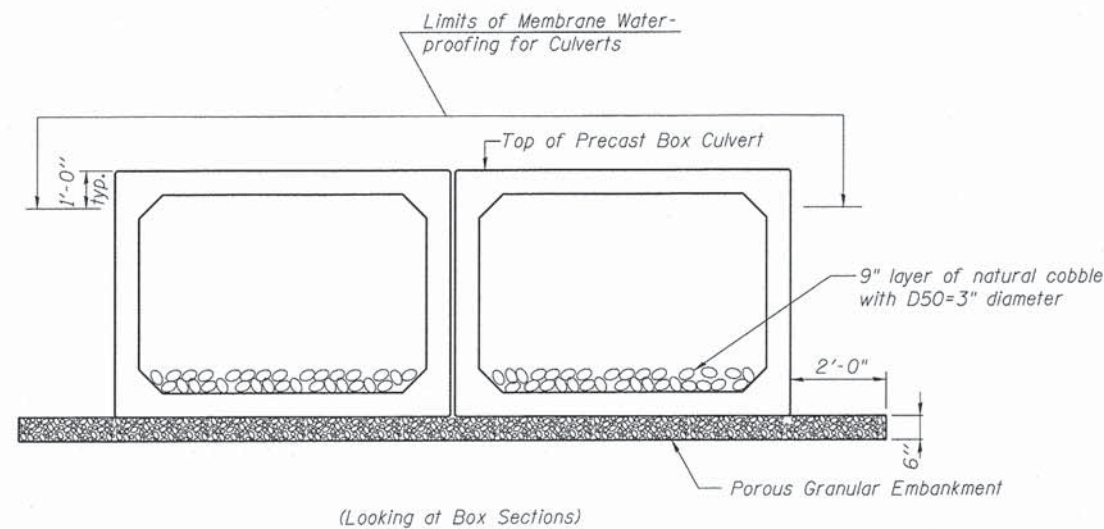
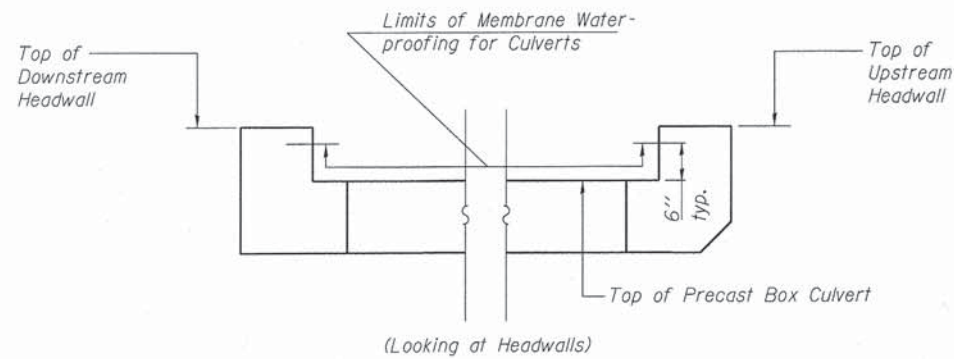
**SHEAR STUD DETAIL**  
(Elevation of Pile Shown)

**TABLE A**  
(Upstream)

Soldier Pile	Pile Size	Top Elevation (ft.)	Bottom Elevation (ft.)	Total Height (ft.)	Number of Shear Studs
1	HP 14 x 89	694.05	667.7	26.35	9
2	HP 14 x 89	692.76	667.7	25.06	8
3	HP 14 x 89	691.47	667.7	23.77	7
4	HP 8x36 (min.)	689.26	679.9	9.36	

**TABLE A**  
(Downstream)

Soldier Pile	Pile Size	Top Elevation (ft.)	Bottom Elevation (ft.)	Total Height (ft.)	Number of Shear Studs
1	HP 14 x 89	693.65	667.3	26.35	9
2	HP 14 x 89	692.36	667.3	25.06	8
3	HP 14 x 89	691.07	667.3	23.77	7
4	HP 8x36 (min.)	688.86	679.9	9.36	



**LIMITS OF MEMBRANE WATER-PROOFING FOR CULVERTS AND POROUS GRANULAR EMBANKMENT UNDER BOXES**

Note: Membrane Waterproofing for Culverts shall cover top of the top slab, top one foot of side walls, and 6 inches up inside face of the headwalls.

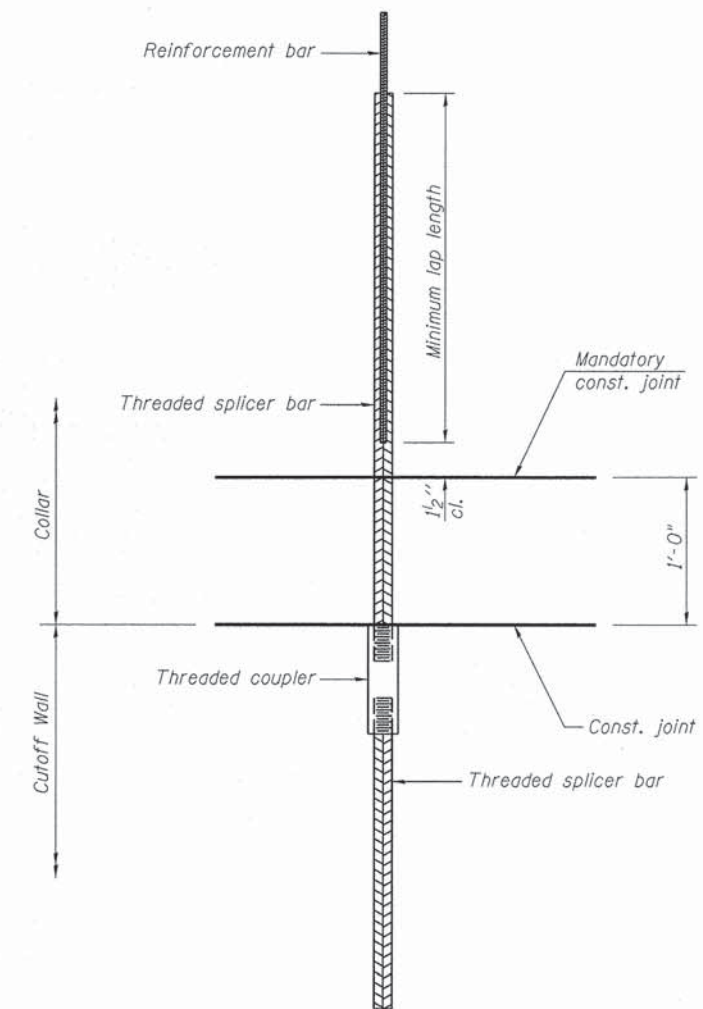
Note: Porous Granular Embankment under the boxes shall be included in the cost of Precast Concrete Box Culvert 12' x 6'

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.



**BAR SPLICER ASSEMBLY FOR BOX CULVERT END SECTION**

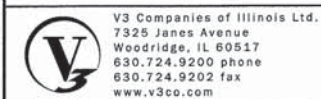
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

Location	Bar size	No. assemblies required	Table for minimum lap length
* Cutoff Wall	5	10	1

\* For one end section



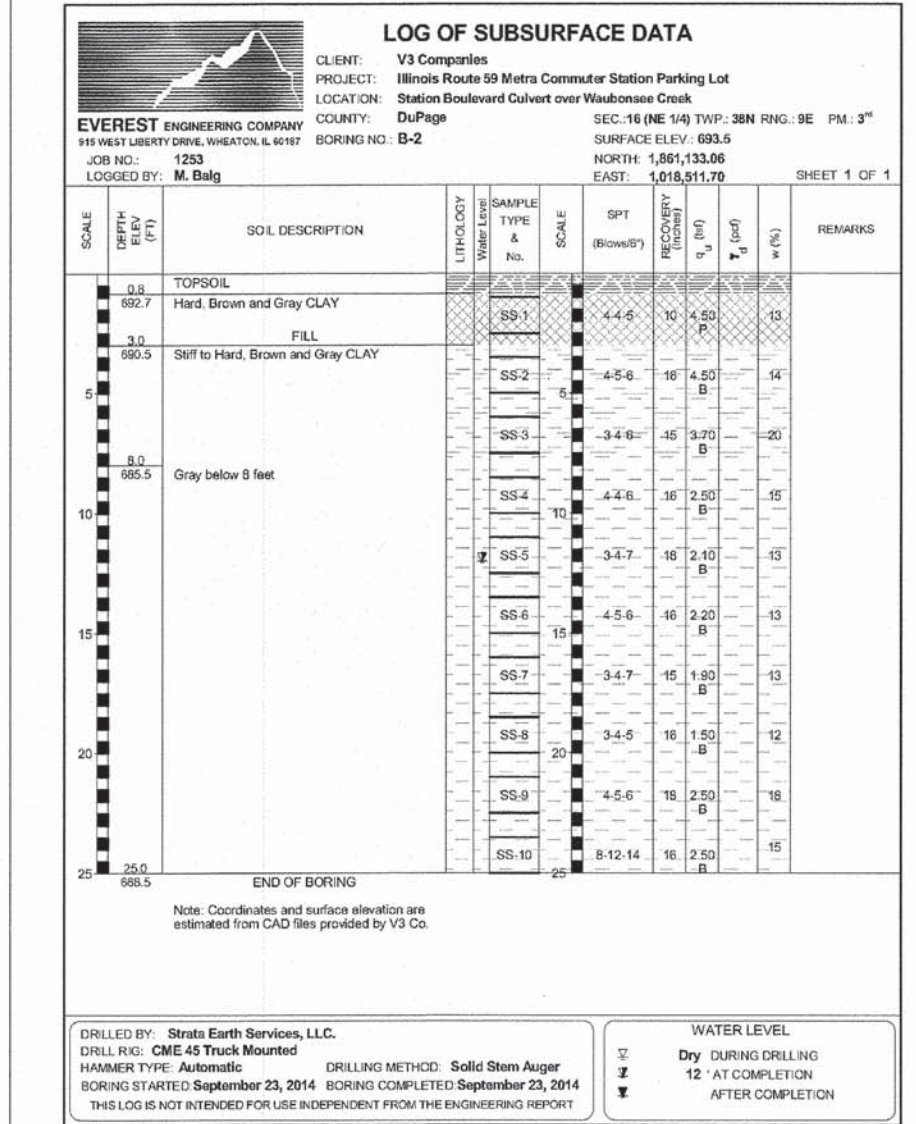
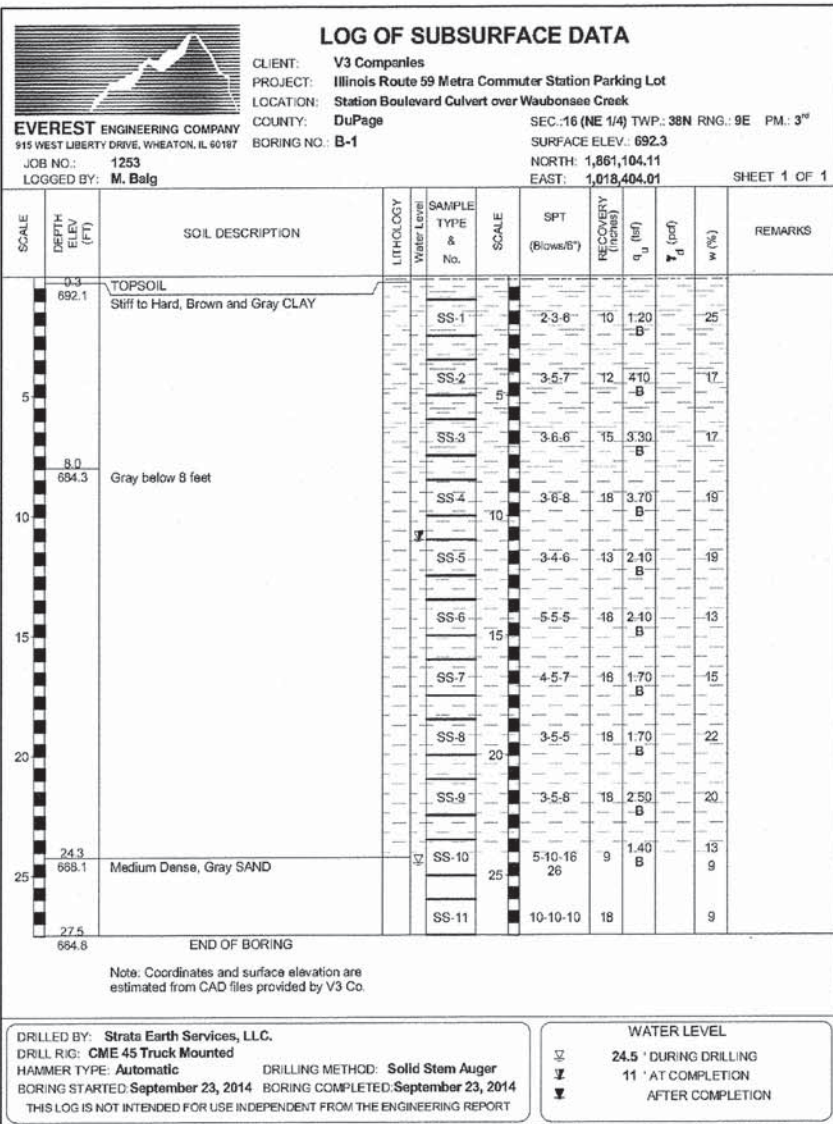
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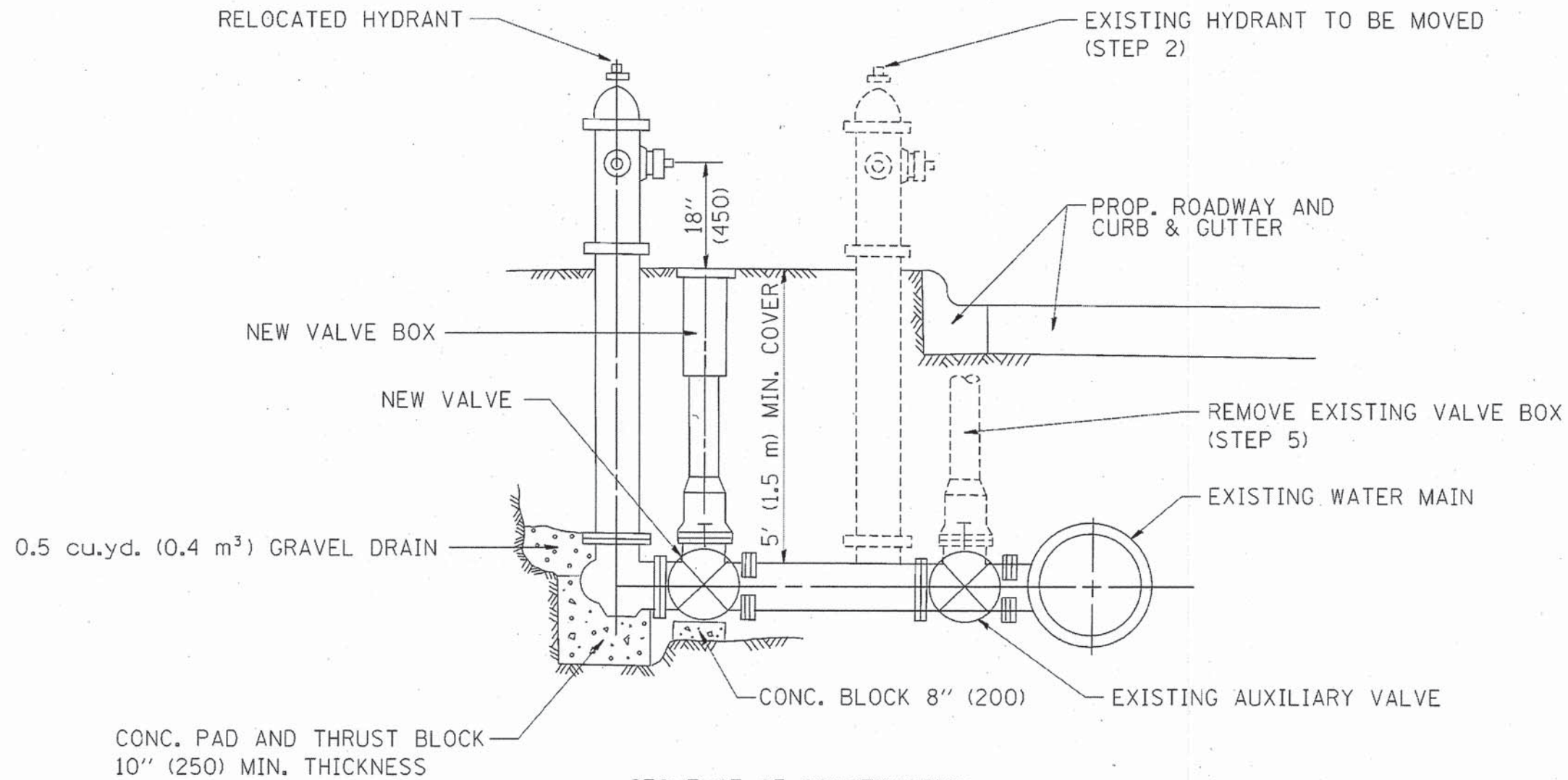
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BOX CULVERT END SECTION DETAILS AND WATERPROOFING LIMITS

SHEET NO. 6 OF 7 SHEETS

F.A.P. RTE. 0084	SECTION 13-00300-00-PK	COUNTY	TOTAL SHEETS 101	SHEET NO. 93
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	





SEQUENCE OF CONSTRUCTION:

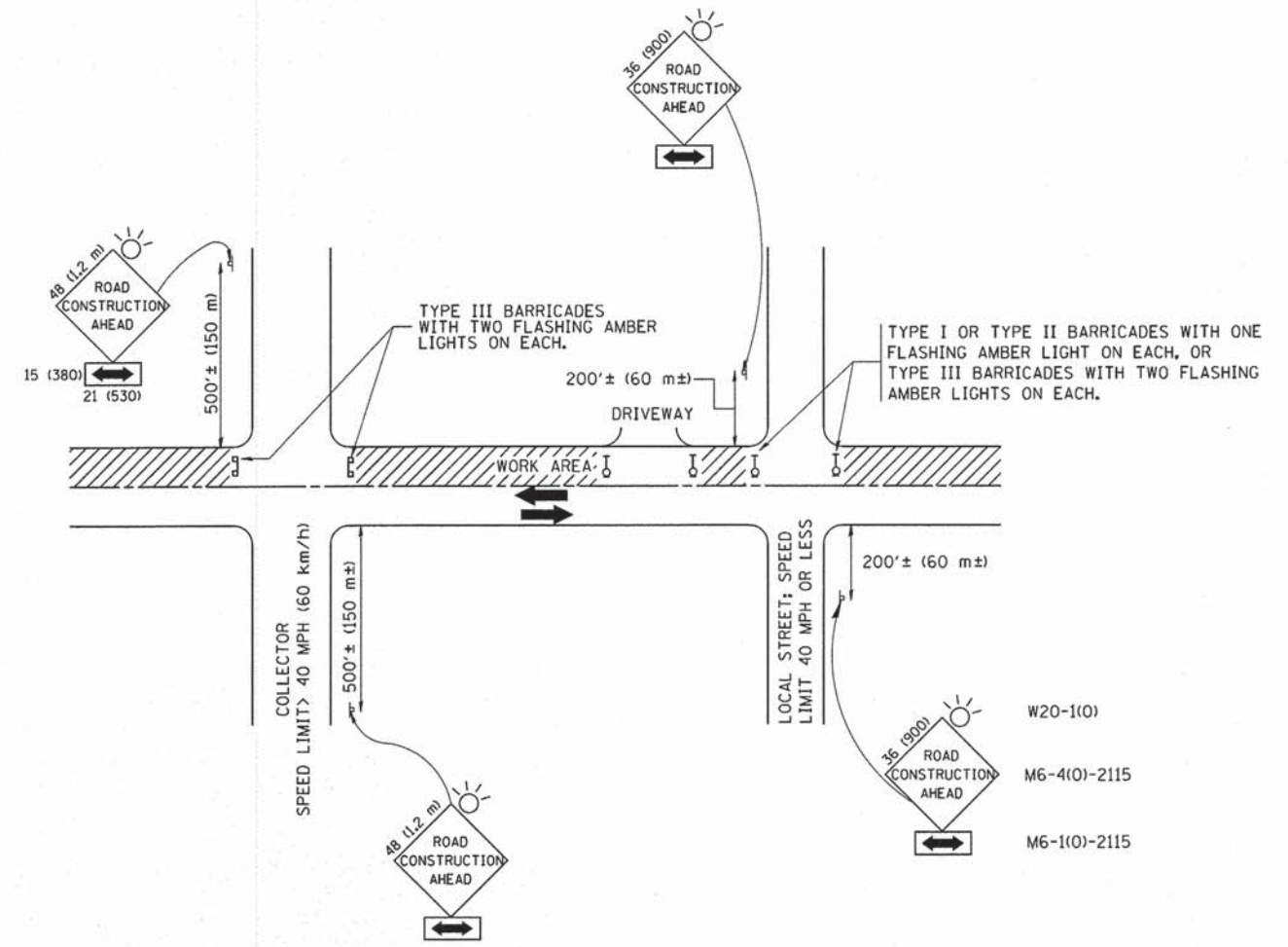
1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

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

FIRE HYDRANT TO BE MOVED

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

FILE NAME = H:\dist\std\22x34\bd35.dgn	USER NAME = gajlanskt	DESIGNED - DRAWN -	REVISED - REVISED - REVISED - REVISED -	R. SHAH 09-09-94 R. SHAH 10-25-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>FIRE HYDRANT TO BE MOVED</b>				
PLOT SCALE = 1/4" = 1'-0"	CHECKED - DATE -	REVISIONS	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS			STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
							BD-36		CONTRACT NO. 61833		101 95
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT											



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

NOTES:

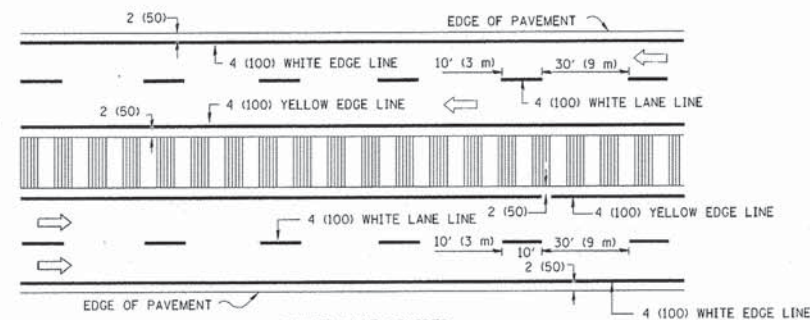
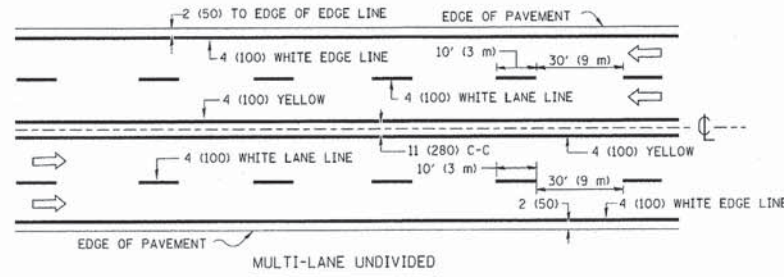
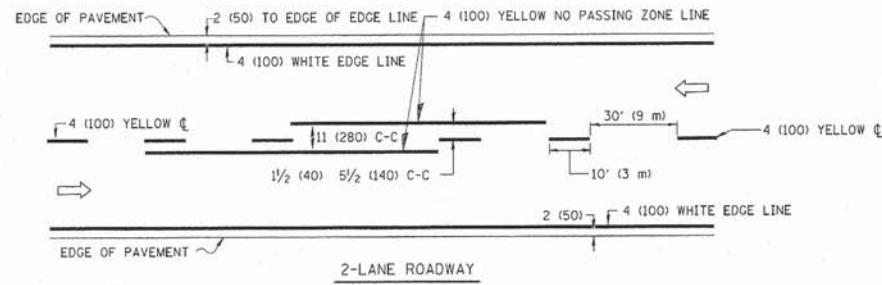
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) 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.
  2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) 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.
    - b) 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.
  3. 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).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

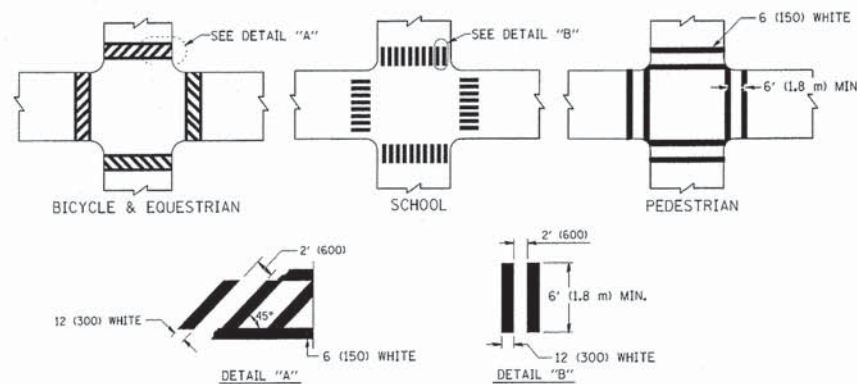
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											CONTRACT NO. 61833	
											FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



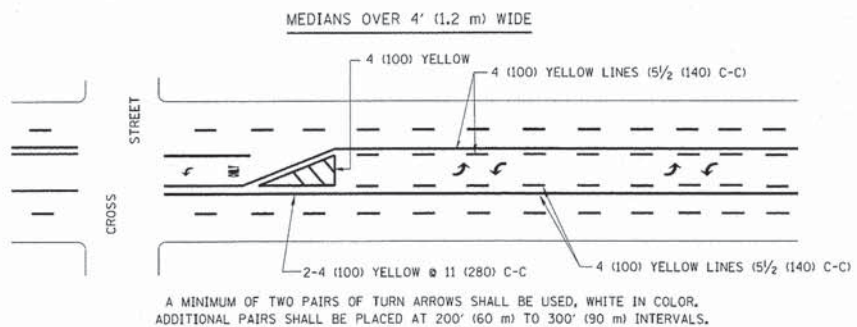
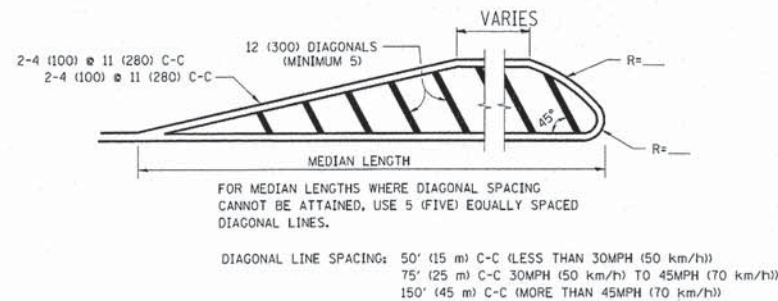
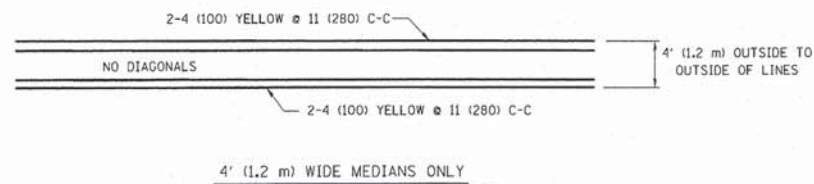


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

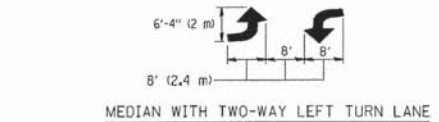
TYPICAL LANE AND EDGE LINE MARKING



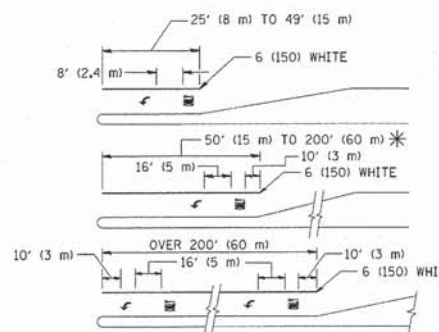
TYPICAL CROSSWALK MARKING



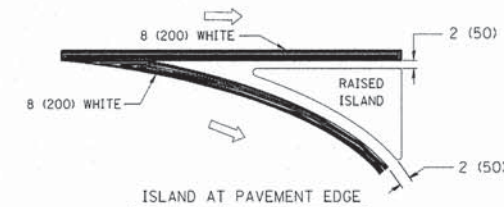
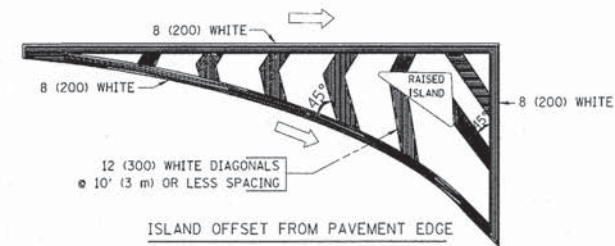
TYPICAL PAINTED MEDIAN MARKING



TYPICAL LEFT (OR RIGHT) TURN LANE



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

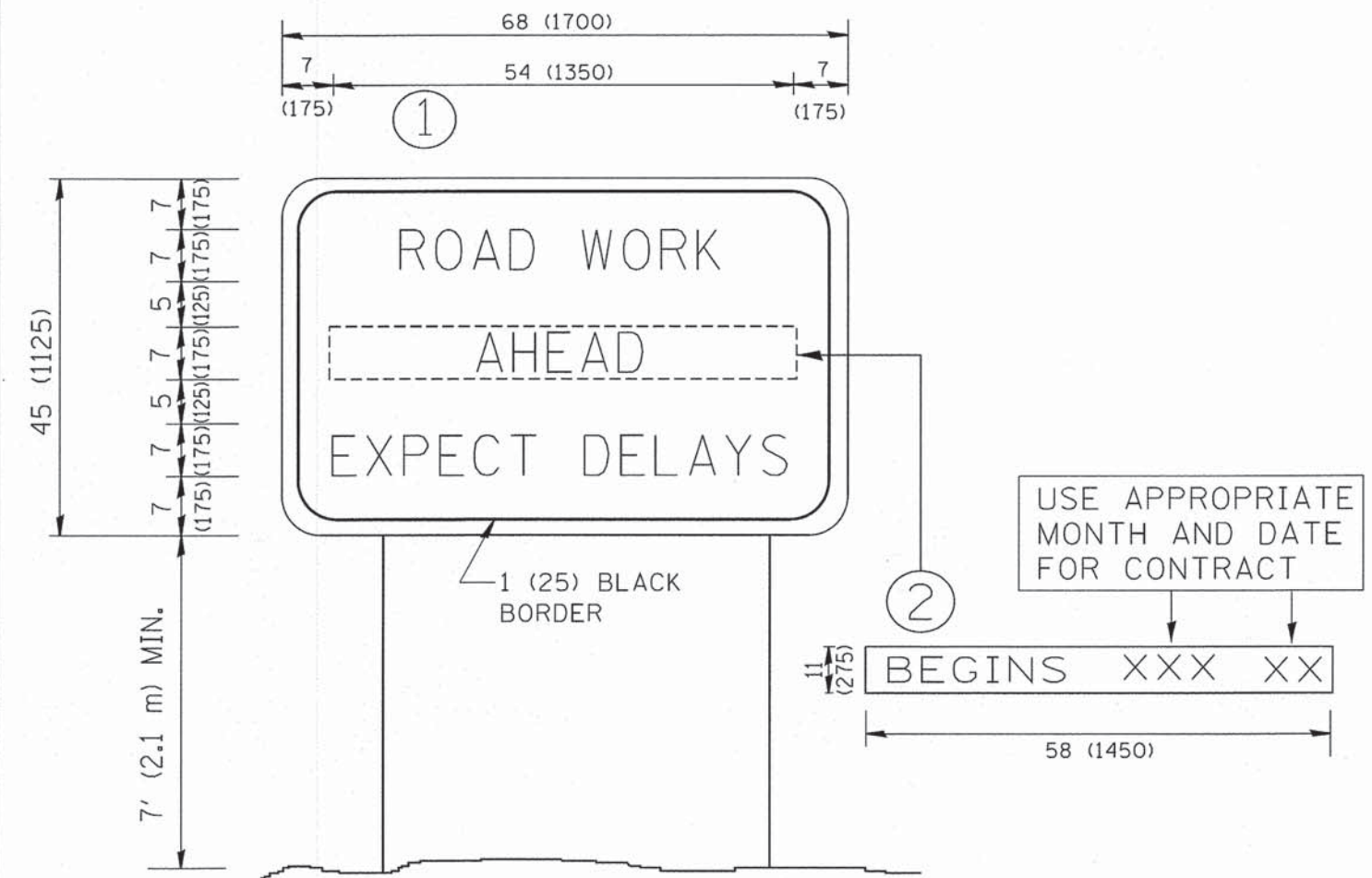
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13		101	97
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 61833	



**NOTES:**

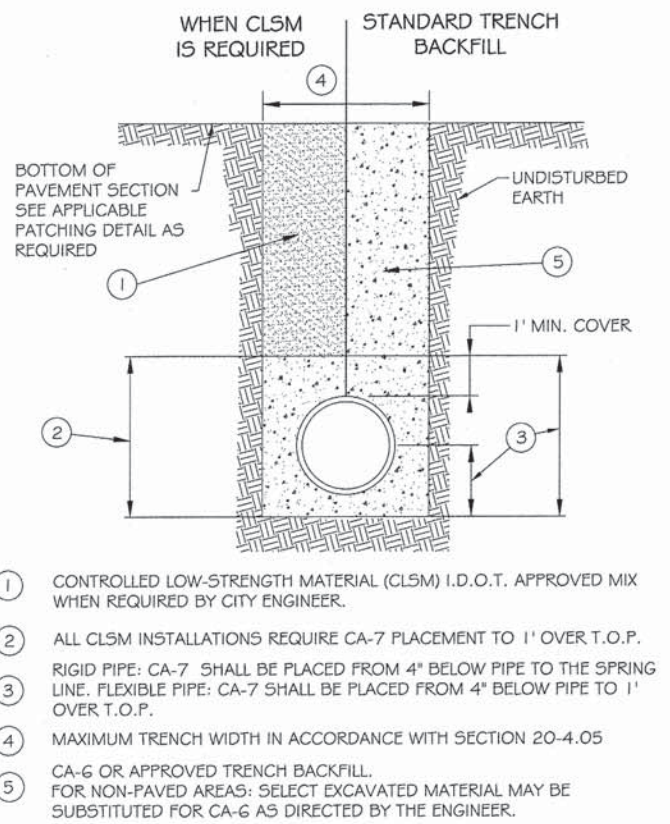
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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.

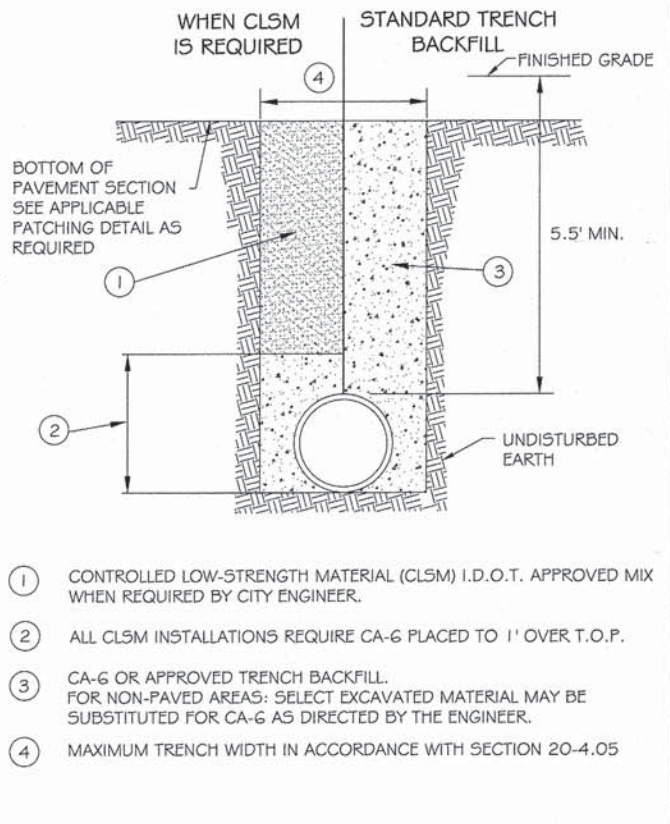
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		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

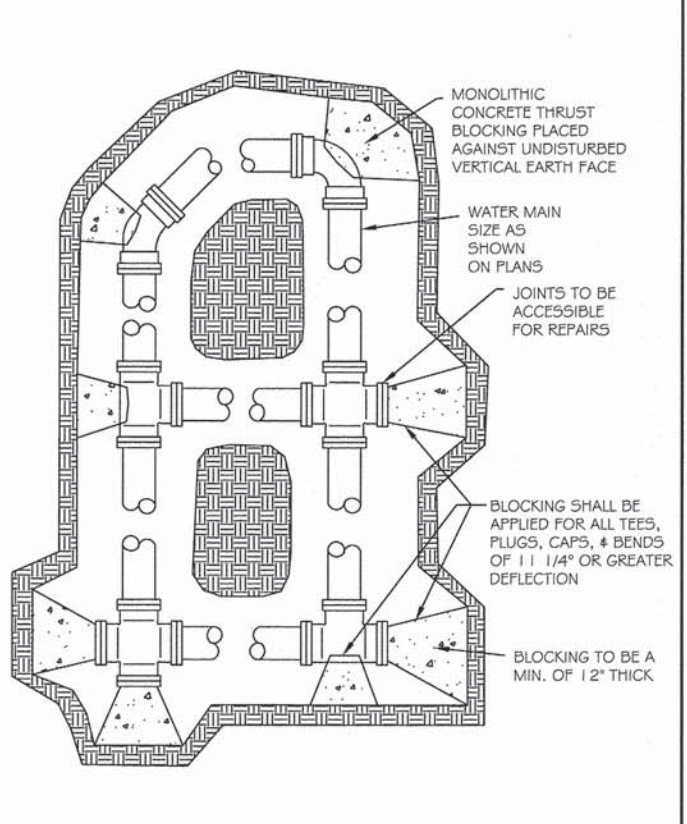
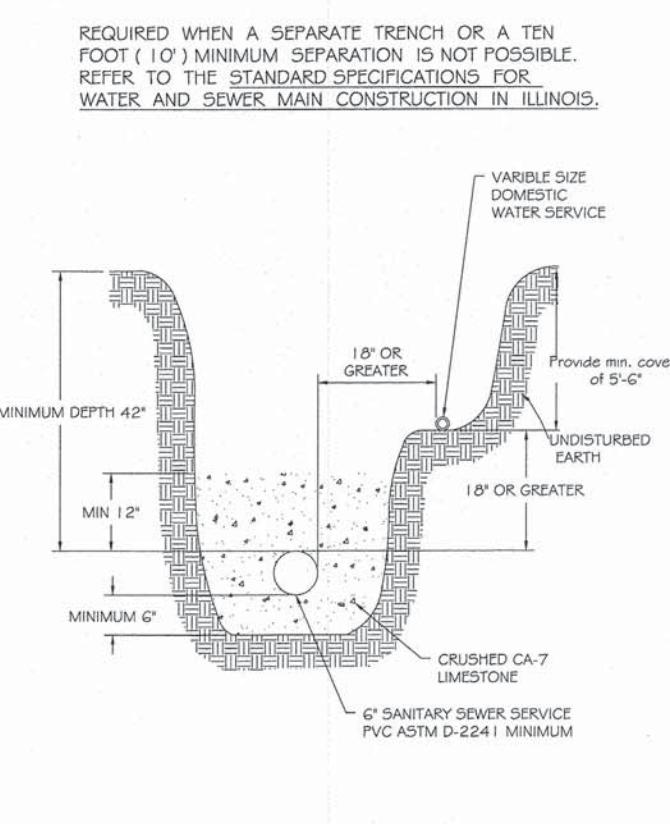
<b>ARTERIAL ROAD INFORMATION SIGN</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22	101	98
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						CONTRACT NO. 61823



- ① CONTROLLED LOW-STRENGTH MATERIAL (CLSM) I.D.O.T. APPROVED MIX WHEN REQUIRED BY CITY ENGINEER.
- ② ALL CLSM INSTALLATIONS REQUIRE CA-7 PLACEMENT TO 1' OVER T.O.P. RIGID PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO THE SPRING LINE. FLEXIBLE PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO 1' OVER T.O.P.
- ③ MAXIMUM TRENCH WIDTH IN ACCORDANCE WITH SECTION 20-4.05
- ④ CA-6 OR APPROVED TRENCH BACKFILL.
- ⑤ FOR NON-PAVED AREAS: SELECT EXCAVATED MATERIAL MAY BE SUBSTITUTED FOR CA-6 AS DIRECTED BY THE ENGINEER.



- ① CONTROLLED LOW-STRENGTH MATERIAL (CLSM) I.D.O.T. APPROVED MIX WHEN REQUIRED BY CITY ENGINEER.
- ② ALL CLSM INSTALLATIONS REQUIRE CA-6 PLACED TO 1' OVER T.O.P.
- ③ CA-6 OR APPROVED TRENCH BACKFILL. FOR NON-PAVED AREAS: SELECT EXCAVATED MATERIAL MAY BE SUBSTITUTED FOR CA-6 AS DIRECTED BY THE ENGINEER.
- ④ MAXIMUM TRENCH WIDTH IN ACCORDANCE WITH SECTION 20-4.05



REVISIONS	DATE	BY	DESCRIPTION
1	01-24-13	DG	

SEWER TRENCH DETAIL PAVED & UNPAVED  
 SCALE: NOT TO SCALE  
 CHECKED: LA  
 DRAWN: DG  
 DATE: 1/04  
 DRAWING NUMBER: EXHIBIT III-A-1

REVISIONS	DATE	BY	DESCRIPTION
1	01-25-13	DG	

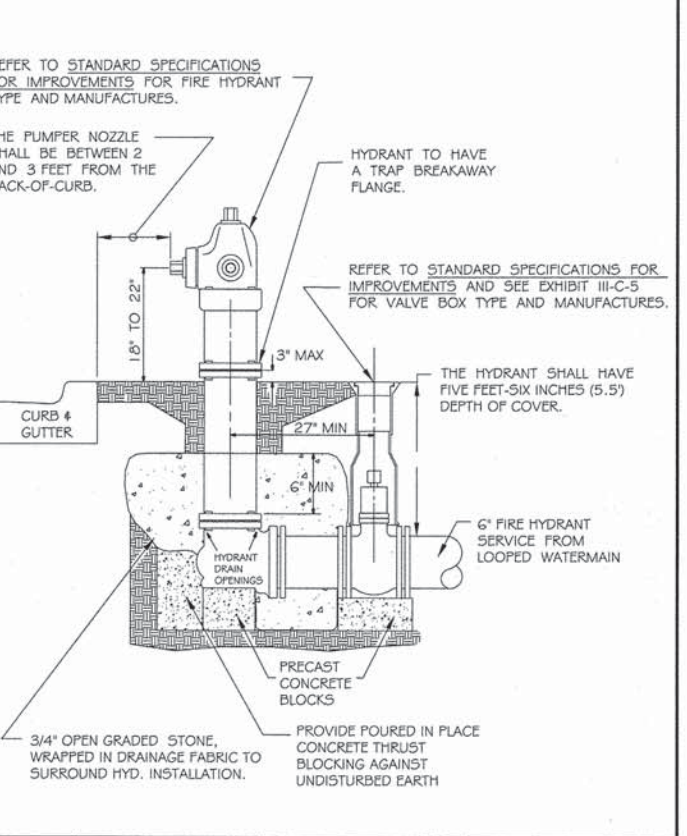
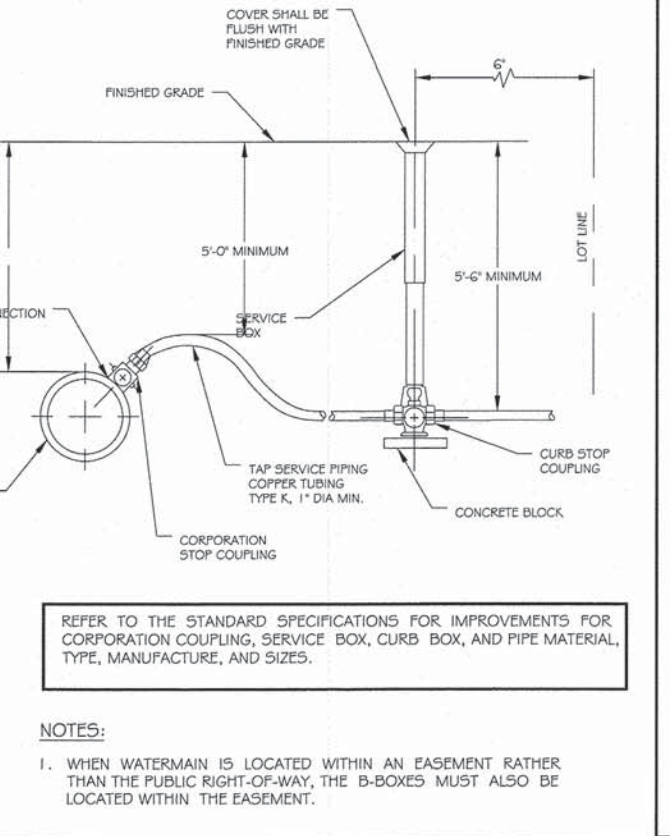
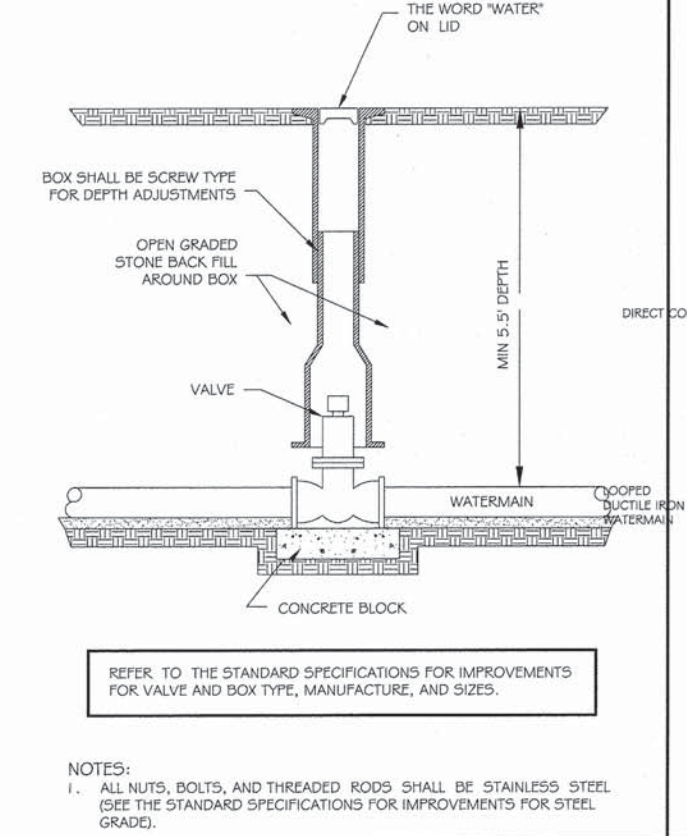
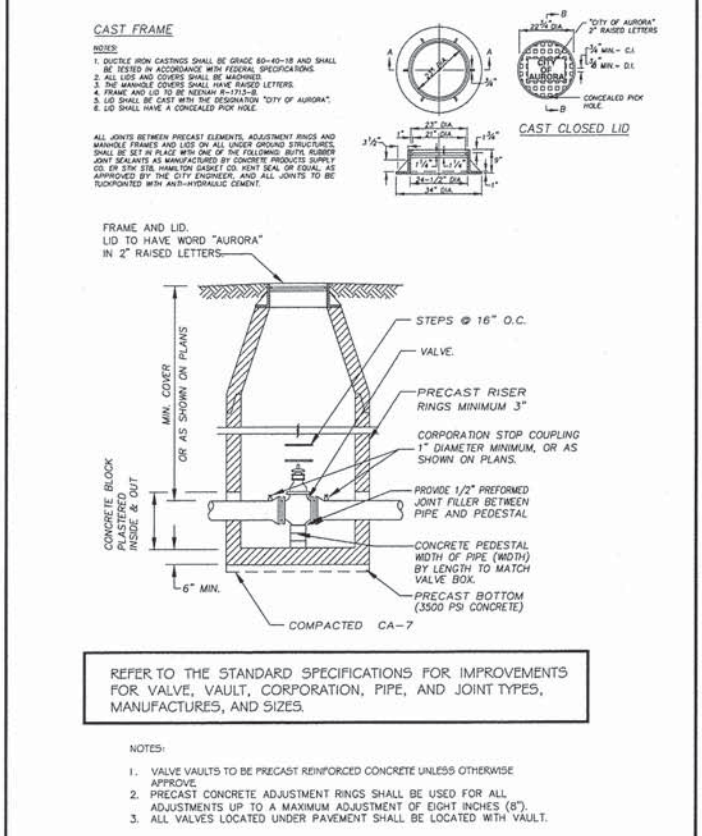
WATERMAIN TRENCH DETAIL PAVED & UNPAVED  
 SCALE: NOT TO SCALE  
 CHECKED: SA  
 DRAWN: DG  
 DATE: 1/04  
 DRAWING NUMBER: EXHIBIT III-C-1

REVISIONS	DATE	BY	DESCRIPTION
1	01/20/11	jhs	

SANITARY AND WATER SERVICE SEPARATION  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWN: NM  
 DATE: 1/04  
 DRAWING NUMBER: EXHIBIT III-C-2

REVISIONS	DATE	BY	DESCRIPTION
1	01/20/11	jhs	

THRUST BLOCKING  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWN: NM  
 DATE: 1/04  
 DRAWING NUMBER: EXHIBIT III-C-3



REVISIONS	DATE	BY	DESCRIPTION
1	12/2010	ST	
2	01/2011	jhs	
3	11/2014	JJ	

VALVE IN VAULT  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWN: NM  
 DATE: 1/04  
 DRAWING NUMBER: EXHIBIT III-C-4

REVISIONS	DATE	BY	DESCRIPTION
1	01/2011	jhs	

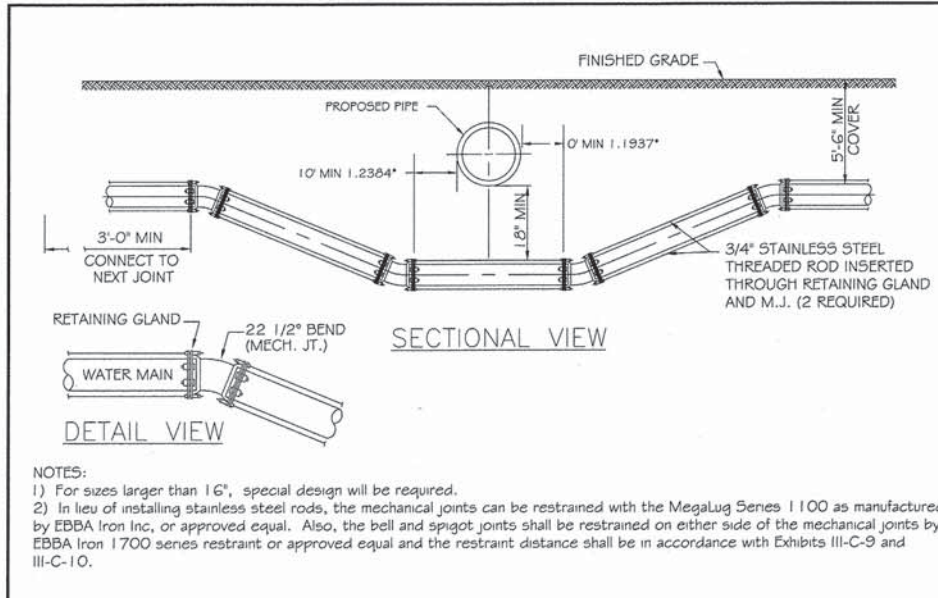
TYPICAL VALVE & BOX  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWN: NM  
 DATE: 1/04  
 DRAWING NUMBER: EXHIBIT III-C-5

REVISIONS	DATE	BY	DESCRIPTION
1	06-21-08	JEM	
2	01/2011	jhs	

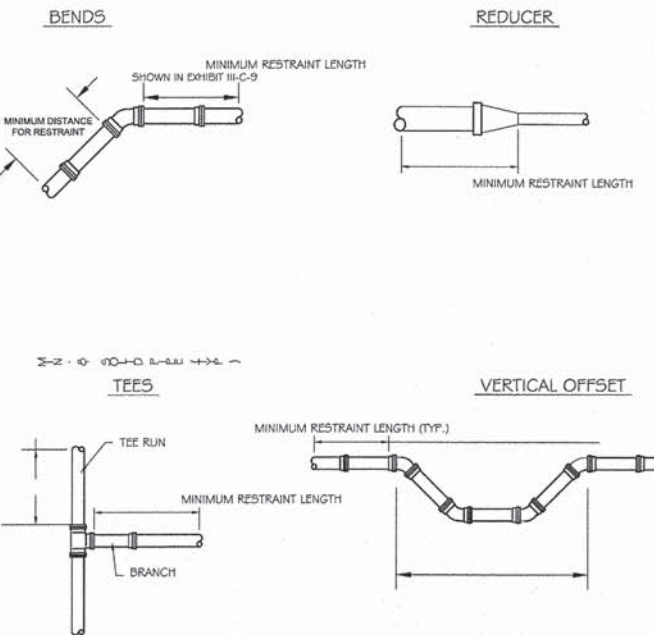
TYPICAL WATER SERVICE TAP AND BOX  
 SCALE: NTS  
 CHECKED: DF  
 DRAWN: NM  
 DATE: 06/02  
 DRAWING NUMBER: EXHIBIT III-C-6

REVISIONS	DATE	BY	DESCRIPTION
1	8/02	NM, redrawn	
2	1/04	SAZ, redrawn	
3	01/2011	jhs, Revisions	

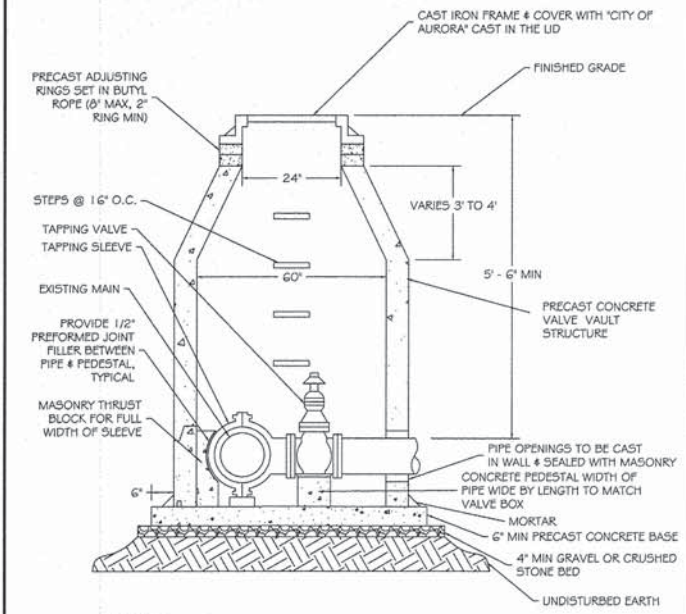
HYDRANT INSTALLATION  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWN: NM / SAZ  
 DATE: 8/02  
 DRAWING NUMBER: EXHIBIT III-C-7



NOTES:  
 1) For sizes larger than 16", special design will be required.  
 2) In lieu of installing stainless steel rods, the mechanical joints can be restrained with the Megalug Series 1100 as manufactured by EBBA Iron Inc. or approved equal. Also, the bell and spigot joints shall be restrained on either side of the mechanical joints by EBBA Iron 1700 series restraint or approved equal and the restraint distance shall be in accordance with Exhibits III-C-9 and III-C-10.



NOTES:  
 1) THE EXACT LENGTHS FOR RESTRAINT ARE SHOWN IN EXHIBIT III-C-9

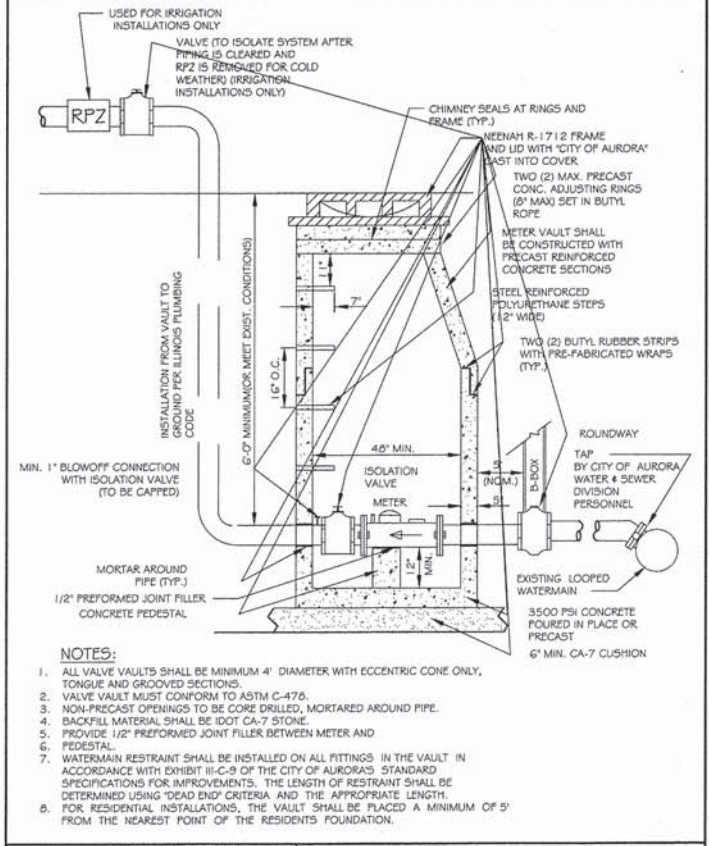


NOTES:  
 1. VALVE VAULT BARREL SECTION SHALL CONFORM TO ASTM C-478.  
 2. REFER TO THE STANDARD SPECIFICATIONS FOR IMPROVEMENTS FOR VALVE, SLEEVE, AND STEPS TYPE AND MANUFACTURERS.  
 3. REFER TO EXHIBITS III-A-1 AND III-C-1, TRENCH BACKFILL DETAILS, FOR BACKFILL AROUND VALVE VAULT STRUCTURE.

REVISIONS		WATER MAIN LOWERING DETAIL	
DATE:	BY:	SCALE:	CHECKED:
		NOT TO SCALE	DF
DATE:	1/04	DRAWN:	SAZ
AURORA ENGINEERING		EXHIBIT III-C-8	

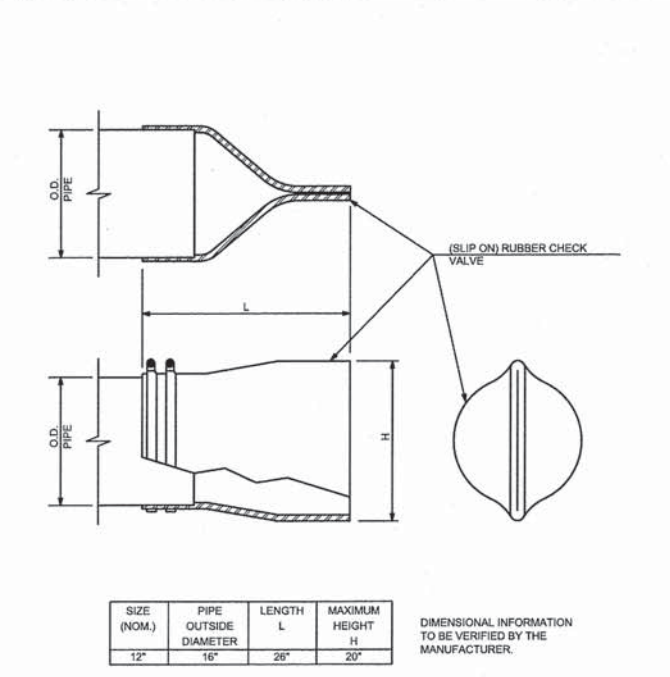
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DATE:	BY:	SCALE:	CHECKED:
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DATE:	1/04	DRAWN:	NM
AURORA ENGINEERING		EXHIBIT III-C-10	

REVISIONS		PRESSURE CONNECTION	
DATE:	BY:	SCALE:	CHECKED:
01/2011	MS	NOT TO SCALE	DF
DATE:	1/05	DRAWN:	
AURORA ENGINEERING		EXHIBIT III-C-11	



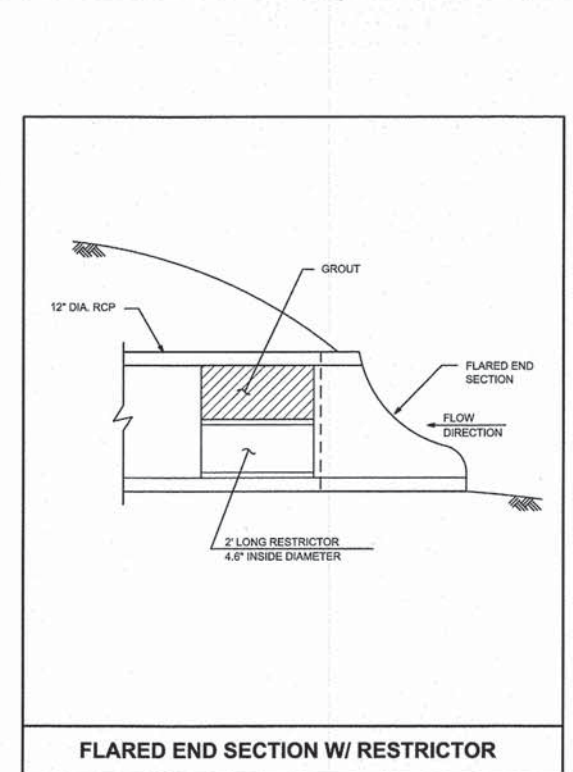
NOTES:  
 1. ALL VALVE VAULTS SHALL BE MINIMUM 4' DIAMETER WITH ECCENTRIC CONE ONLY, TONGUE AND GROOVED SECTIONS.  
 2. VALVE VAULT MUST CONFORM TO ASTM C-478.  
 3. NON-PRECAST OPENINGS TO BE CORE DRILLED, MORTARED AROUND PIPE.  
 4. BACKFILL MATERIAL SHALL BE DOT CA-7 STONE.  
 5. PROVIDE 1/2\"/>

REVISIONS		METER VAULT DETAIL	
DATE:	BY:	SCALE:	CHECKED:
01-25-11	JLM	NTS	DF
DATE:	01/08	DRAWN:	JLM
AURORA ENGINEERING		EXHIBIT III-C-12	

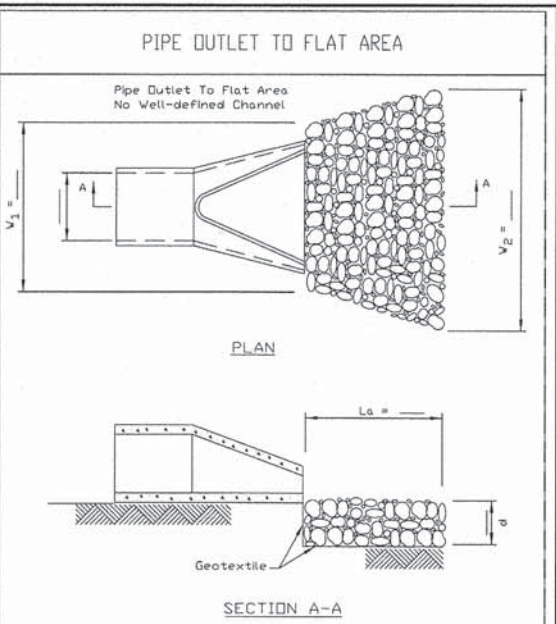


MANUFACTURERS AND PRODUCTS:  
 TIDEFLEX - SERIES TF-2 SLIP ON  
 CLA-VAL - SERIES D80 DUCKBILL SLIP-OVER STYLE CHECK VALVE  
 J&S VALVES - HEDFLEX DUCKBILL CHECK VALVE - SERIES 9800

REVISIONS		DUCKBILL CHECK VALVE DETAIL (RUBBER SLIP ON TYPE)	
DATE:	BY:	SCALE:	CHECKED:
DATE:	03/04-15	DRAWN:	
AURORA ENGINEERING		EXHIBIT III-C-12	



FLARED END SECTION W/ RESTRICTOR



NOTES:  
 1. The filter fabric shall meet the requirements in material specifications 592 GEOTEXTILE Table 1 or 2, class I, II or III.  
 2. The rock riprap shall meet the IDOT requirements for the following gradation: RR \_\_\_\_\_, Quality \_\_\_\_\_.  
 3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

REFERENCE Project	Date	DESIGNED	Date	CHECKED	Date	APPROVED	Date

STANDARD SVLG. NO.	IL-610
SHEET 1 OF 1	DATE 9-15-93

LOCATION	DIAM.	GRADATION	L <sub>o</sub>	W2 (FT)	d
FES 7	18"	RR3	10'	5	15"
FES 6, 8, 9	24"	RR3	16'	6	15"
FES 10	36"	RR4	20'	9	20"

V3 Companies  
 7325 Janes Avenue  
 Woodridge, IL 60517  
 630.724.9200 phone  
 630.724.9202 fax  
 www.v3co.com

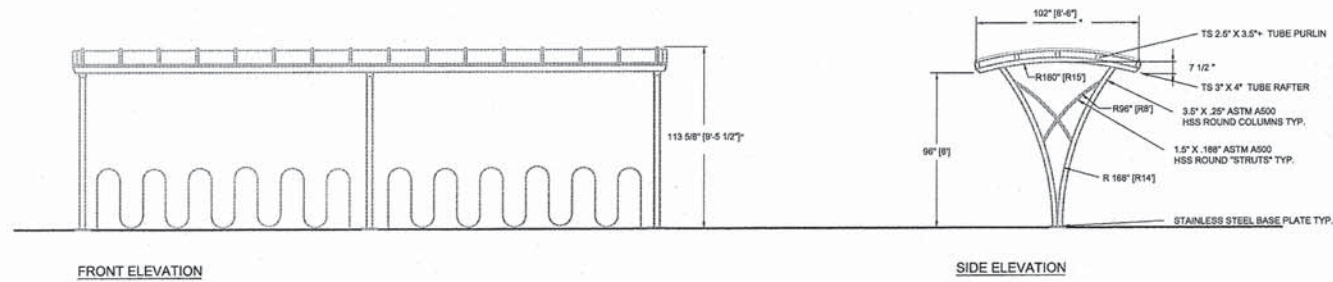
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PLOT SCALE = #SCALE#	DRAWN - CAS	REVISED -
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	DATE - 03-04-15	REVISED -

DESIGNED - CAS	REVISED -
DRAWN - CAS	REVISED -
CHECKED - MJR	REVISED -
DATE - 03-04-15	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

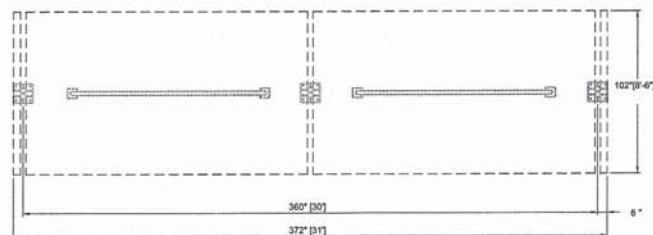
ILLINOIS ROUTE 59 METRA STATION	
AURORA DETAILS	
SCALE:	SHEET 2 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	100
CONTRACT NO. 61B33			ILLINOIS FED. AID PROJECT	

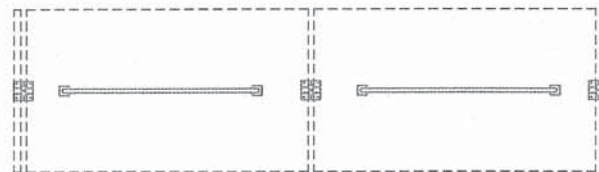


FRONT ELEVATION

SIDE ELEVATION



PLAN VIEW  
36' RACK SPACING



PLAN VIEW  
30' RACK SPACING

NOTES:

- \*FRAMEWORK TO BE WELDED AND MECHANICALLY FASTENED STEEL
- \*ALL FASTENERS TO BE STAINLESS STEEL
- \*ROOF GLAZING TO BE: 8MM POLYCARBONATE STRUCTURED SHEET, BATTEN SYSTEM, IN ALUMINUM TRIM. TINT: TRANSLUCENT
- \*STEEL FINISHING:
  - \*MEDIA BLAST PREP
  - \*NEMEC TNEC ZINC 90-87 PRIMER
  - \*NEMEC SERIES N69 HI-BUILD EPOXOLINE 2-PART EPOXY MIDCOAT;
  - \*NEMEC SERIES 73 ENDURA-SHIELD TOPCOAT.
  - \*ALUMINUM TRIM TO HAVE SAME TOP TWO COATS.
  - \*COLOR BLACK
- \*ALL DIMENSIONS TO BE FIELD VERIFIED
- \*DESIGN IS PRELIMINARY, AND CONCEPTUAL, AND SUBJECT TO CHANGE BASED ON FINAL ENGINEERING PHASE AND CUSTOMER APPROVAL.



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = #USER#	DESIGNED - CAS	REVISED -
PLOT SCALE = #SCALE#	DRAWN - CAS	REVISED -
PLOT DATE = 3/3/2015	CHECKED - MJR	REVISED -
	DATE - 03-04-15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 59 METRA STATION  
AURORA DETAILS

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0084	13-00300-00-PK	DUPAGE	101	101
			CONTRACT NO. 61B33	
ILLINOIS FED. AID PROJECT				