

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 63622		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

FAP 374 (ILLINOIS ROUTE 21 – MILWAUKEE AVENUE)
NEVA AVENUE TO MONROE STREET

STREETSCAPE IMPROVEMENTS
SECTION NO.: 10-00111-00-LS
PROJECT NO.: TCSP-TE-00D1(827)
VILLAGE OF NILES
COOK COUNTY
C-91-550-10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

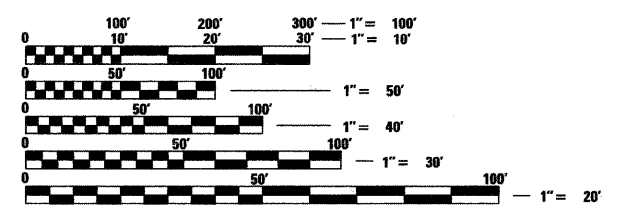
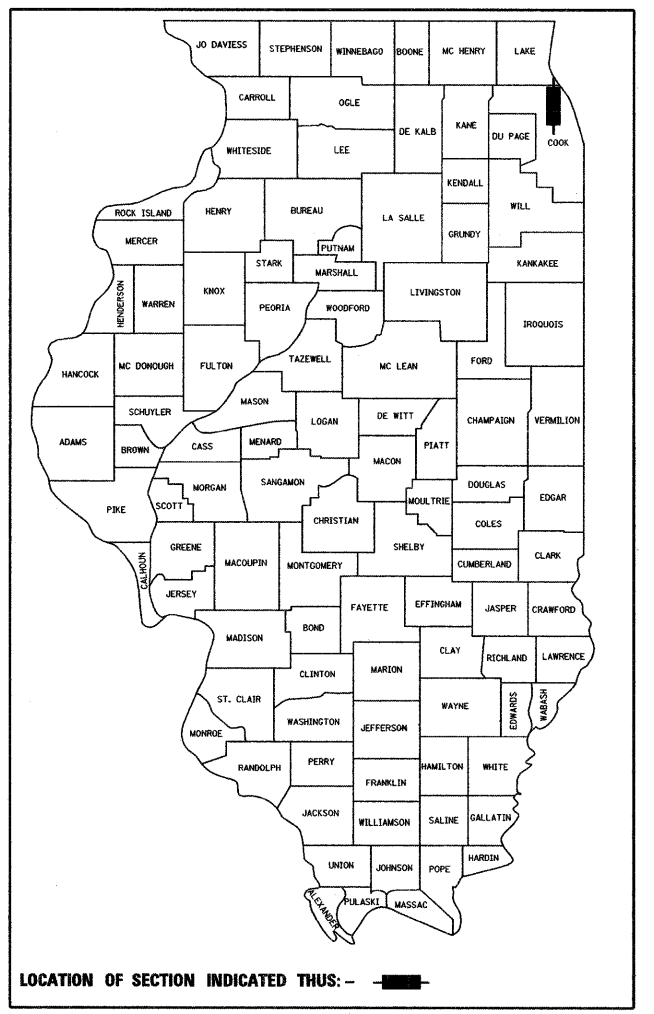
ADT: MILWAUKEE AVE.. 36,400 VPD (2007) 38,000 VPD (2030)

POSTED SPEED

35 MPH (EXISTING)
35 MPH (PROPOSED)

DESIGN SPEED

40 MPH (PROPOSED)



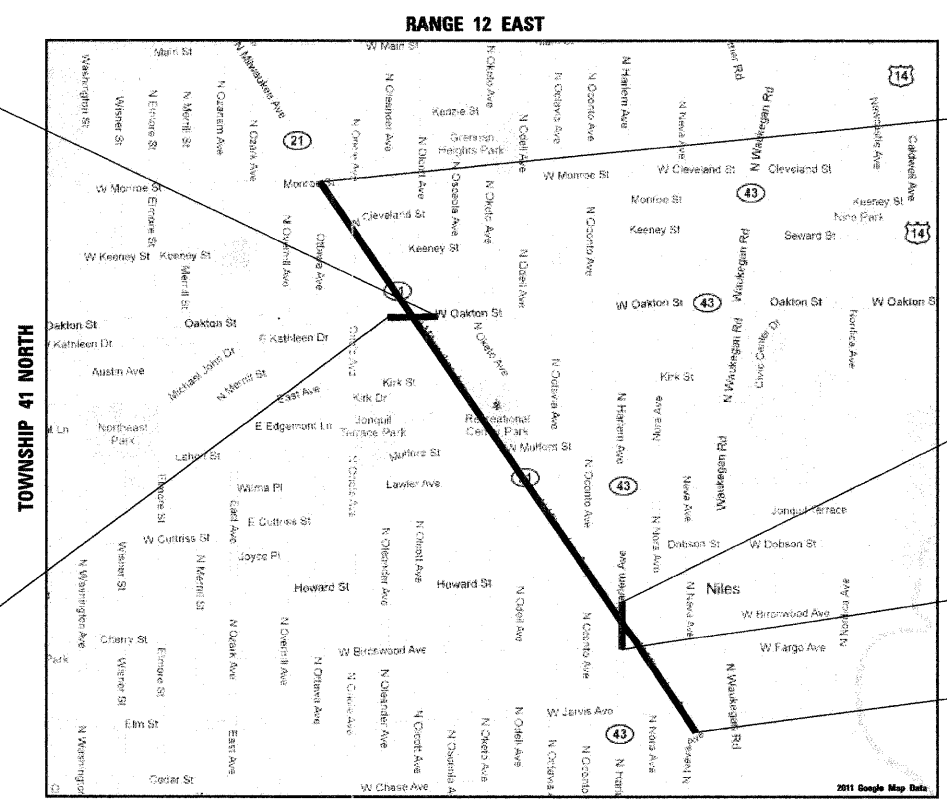
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

Know what's below.
Call before you dig.

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

PROJECT ENDS
OAKTON STREET
STA. 506 + 00.00



PROJECT ENDS
MILWAUKEE AVENUE
STA. 231 + 65.00

PROJECT ENDS
HARLEM AVENUE
STA. 98 + 00.00

PROJECT BEGINS
HARLEM AVENUE
STA. 92 + 65.00

PROJECT BEGINS
MILWAUKEE AVENUE
STA. 166 + 75.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 7-20 2011
[Signature]
VILLAGE OF NILES

PASSED July 20 2011
[Signature]
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW JULY 21 2011
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL

[Signature]
M. AKRAM CHAUDHRY, P.E.
EXPIRES: 11-30-11

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

PROJECT ENGINEER: CHRISTOPHER HARTKE, P.E.
PROJECT MANAGER: AKRAM CHAUDHRY, P.E.

CONTRACT NO. 63622

PROJECT LENGTH
NET LENGTH OF PROJECT = 7,537 FT (1.43 MI)
GROSS LENGTH OF PROJECT = 7,537 FT (1.43 MI)

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

COMPANY NAME: #COMPANY-NAME
PROJECT CONTACT: #PROJECT-CONTACT
CLIENT: #CLIENT
DATE PLOTTED: 7/20/2011 9:07:16 AM
FILE NAME: 86000095-cvr-09n
PLOT DRIVER: McHenry-060-plotter-AS-15.plt
PEN TABLE: STANDARD-TRANS.tbl

INDEX OF SHEETS

1	COVER SHEET
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LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
424001-05	CURB RAMPS FOR SIDEWALK
606001-04	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS OPERATIONS
701601-07	LANE CLOSURE, URBAN, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-05	LANE CLOSURE, URBAN, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-07	LANE CLOSURE, URBAN, MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-04	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-08	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

LIST OF DISTRICT DETAILS

STANDARD NO.	DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5m)
BD-02	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB <= 15' (4.5m)
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
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
TS-07	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

GENERAL NOTES

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2007.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT (800) 892-0123 AND THE VILLAGE OF NILES AT (847) 588-7926 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- AT LOCATIONS WHERE PROPOSED SIDEWALK IS TO BE PLACED ADJACENT TO EXISTING CONCRETE PAVEMENT, THE LIMIT OF REMOVAL SHALL BE SAW CUT TO PRODUCE A SMOOTH EDGE FOR AN EXPANSION JOINT AND PROPOSED CONCRETE TO BE PLACED ADJACENT TO. AT LOCATIONS WHERE PROPOSED SIDEWALK IS TO BE PLACED ADJACENT TO EXISTING HMA DRIVEWAYS OR PARKING LOTS, THE LIMIT OF REMOVAL SHALL BE EXTENDED 1 FOOT BEYOND THE PROPOSED SIDEWALK TO ALLOW FOR FORMS TO BE USED IN THE SIDEWALK CONSTRUCTION.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ON THE USGS DATUM.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE ENGINEER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.

12. SAW CUTTING OF PAVEMENTS, SIDEWALK, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAWCUTTING SHALL BE CONSIDERED INCLUDED IN THE ITEM REMOVED.

13. DRIVEWAY OFFSETS ARE TO BE CONSTRUCTED TO WITHIN ONE (1) FOOT OF THE R.O.W. OR UNLESS OTHERWISE NOTED.

14. ALL DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION DRIVEWAY DETAILS INCLUDED IN DETAIL SHEETS.

15. REMOVAL OF EXISTING COMBINATION CURB AND GUTTER, REGARDLESS OF CURB AND GUTTER TYPE, SHALL BE PAID FOR AS "COMBINATION CURB AND GUTTER REMOVAL".

16. THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.

17. USE OF NO. 20 (#6) EPOXY COATED TIE BARS CONFORMING TO ARTICLE 1006.10 (b) (2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL CONSTRUCTION JOINTS AS SHOWN ON STATE STANDARD 420001-01 WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF PAVEMENT ITEMS BEING CONSTRUCTED.

18. THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.10 GAL/SQ-YD.

19. SIDEWALK PLACED ADJACENT TO BRICK PAVER ACCENT STRIP SHALL INCLUDE A 3" WIDE SMOOTH TROWEL SURFACE, 3/16" DEEP ON THE ADJACENT EDGE. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. SEE BRICK PAVER ACCENT STRIP DETAIL FOR ADDITIONAL INFORMATION.

20. PROPOSED TREES SHALL BE SPACED AT APPROXIMATELY 45 FEET APART AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

UTILITIES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

2. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

4. ALL UTILITY COMPANIES AND THE VILLAGE OF NILES SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.

5. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.

6. ANY LOOSE MATERIAL DEPOSITED IN THE FLOWLINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

7. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN AN OPERATING CONDITION, TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS.

8. ANY ITEMS DAMAGED DURING REMOVAL OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. THE COST OF SALVAGING EXISTING FRAMES, GRATES, LIDS, OR BOXES AND/OR STOCKPILING THEM ON THE JOB SITE FOR DELIVERY TO THE STATE OR VILLAGE MAINTENANCE YARD SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

9. THE CONTRACTOR SHALL TAKE PRECAUTION EXCAVATING AND REMOVING MATERIALS IN THE VICINITY OF TRAFFIC SIGNAL EQUIPMENT AND CONDUIT. ANY DAMAGED ITEMS WILL BE REPLACED AT NO ADDITIONAL COST BY THE CONTRACTOR.

SIGNING AND STRIPING

1. ALL EXISTING SIGNS LOCATED ON UTILITY/LIGHT POLES TO REMAIN THAT DO NOT CONFLICT WITH THE IMPROVEMENTS SHALL REMAIN IN PLACE UNLESS DIRECTED BY THE ENGINEER.

2. SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.

3. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

4. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT (847) 715-8419 AT LEAST TWO (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.

5. PROPOSED PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT ONE TYPICAL PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.

COMPANY NAME: HRGreen
 PROJECT CONTACT: #PROJECT CONTACT
 CLIENT: #CLIENT
 DATE PLOTTED: 7/28/2011
 PLOT NAME: 86100065-gm-01.dgn
 PLOT DRIVER: pdfplot
 PLOT TABLE: standard-trans.tbl



USER NAME = Charke	DESIGNED - CMH	REVISED -
	DRAWN - CMH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - JLP	REVISED -
PLOT DATE = 7/28/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LIST OF STATE STANDARDS AND GENERAL NOTES
ILLINOIS ROUTE 21 (MILWAUKEE AVENUE)**

SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 2
			FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

CONTRACT NO. 63622

SUMMARY OF QUANTITIES

SPECIALTY	ITEM NUMBER	ITEMS	UNIT	QUANTITY	TCSP		ITEP	
					0021	0031	0021	0031
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	174				
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	224				224
	20101100	TREE TRUNK PROTECTION	EACH	3				3
+	20101200	TREE ROOT PRUNING	EACH	3				3
+	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	3				3
+	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	6710				6710
+	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	125				125
+	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	125				125
+	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	125				125
+	25200110	SODDING, SALT TOLERANT	SQ YD	6710				6710
+	25200200	SUPPLEMENTAL WATERING	UNIT	340				340
+	28000510	INLET FILTERS	EACH	20				20
	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	7265				7265
	31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	8307				8307
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	142				142
	42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	1470				1470
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	42130				42130
	42400800	DETECTABLE WARNINGS	SQ FT	690				690
	44000100	PAVEMENT REMOVAL	SQ YD	860				860
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1880				1880
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	540				540
	44000600	SIDEWALK REMOVAL	SQ FT	50435				50435
	44003100	MEDIAN REMOVAL	SQ FT	118				118
	44201329	CLASS C PATCHES, TYPE II, 8 INCH	SQ YD	105				105
	44201335	CLASS C PATCHES, TYPE IV, 8 INCH	SQ YD	160				160
	44201692	CLASS D PATCHES, TYPE II, 4 INCH	SQ YD	105				105
	44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	160				160
	56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	2				2
	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	4				4
	60603505	CONCRETE CURB (SPECIAL)	FOOT	1900				1900
	60600605	CONCRETE CURB, TYPE B	FOOT	670				670
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	417				417
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	118				118
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6				6
	67100100	MOBILIZATION	L SUM	1				1
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1				1
	70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1				1
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1				1
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	18				18
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	470				470
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	470				470
	72000200	SIGN PANEL - TYPE 2	SQ FT	32.5				32.5
+	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	65				65
+	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2115				2115
+	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	470				470

SPECIALTY	ITEM NUMBER	ITEMS	UNIT	QUANTITY	TCSP		ITEP	
					0021	0031	0021	0031
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	1750				1750
	80400100	ELECTRIC SERVICE INSTALLATION	EACH	2				2
	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1				1
	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1				1
	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	286				286
	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	51				51
	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	61				61
	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	22				22
	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	100				100
	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	560				560
	81400100	HANDHOLE	EACH	2				2
	81400200	HEAVY-DUTY HANDHOLE	EACH	4				4
	81400300	DOUBLE HANDHOLE	EACH	2				2
	81603050	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	3745				3745
	81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	336				336
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	474				474
	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	9				9
	82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	2				2
	83007500	LIGHT POLE, ALUMINUM, 35 FT. M.H., 12 FT. MAST ARM	EACH	9				9
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	288				288
	84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	2				2
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2				2
	85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	4				4
	85100600	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	4				4
	85102275	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1				1
	86200120	UNINTERRUPTIBLE POWER SUPPLY	EACH	1				1
	87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	578.5				578.5
	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	552.5				552.5
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2592				2592
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1610				1610
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2191.5				2191.5
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	783				783
	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	674.5				674.5
	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1726.5				1726.5
	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2				2
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2				2
	87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1				1
	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1				1
	87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1				1
	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1				1
	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16				16
	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4				4

+ SPECIALTY ITEM
 □ CONSTRUCTION TYPE CODE 0042

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm
 CLIENT: #184-001322
 FILE NAME: 86100065-sum-01.dgn
 PLOT DRIVER: standard-trans.tbl
 PEN TABLE:



USER NAME = Chertke
 PLOT SCALE = N.T.S.
 PLOT DATE = 7/28/2011

DESIGNED - CMH
 DRAWN - CMH
 CHECKED - JLP
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES MILWAUKEE AVENUE STREETScape PROJECT

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 3
FED. ROAD DIST. NO. ILLINOIS		CONTRACT NO. 63622		

SUMMARY OF QUANTITIES

SPECIALTY	ITEM NUMBER	ITEMS	UNIT	QUANTITY	TCSP		ITEP	
					0021	0031	0021	0031
	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10	10			
	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	33	33			
	87900200	DRILL EXISTING HANDHOLE	EACH	3	3			
	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8	8			
	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	2			
	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1			
	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2	2			
	88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1	1			
	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	8			
	88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	10	10			
	88600100	DETECTOR LOOP, TYPE I	FOOT	1194	1194			
	88700200	LIGHT DETECTOR	EACH	2	2			
	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8	8			
	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1			
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6803.5	6803.5			
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1			
	89502380	REMOVE EXISTING HANDHOLE	EACH	7	7			
	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	1			
	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9	9			
+	A2004824	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST), 3" CALIPER, BALLED AND BURLAPPED	EACH	38			38	
+	B2005524	TREE, PYRUS CALLERYANA ARISTOCRAT (ARISTOCRAT CALLERY PEAR), 3" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	42			42	
+	X0300635	PLANTER	EACH	5			5	
	X0325425	REMOVE AND RESET POWER POLE	EACH	2			2	
	X0350810	BOLLARD REMOVAL	EACH	1			1	
+	X0945500	PAINT EXISTING POLE COMPLETE	EACH	72			72	
	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	217			217	
	X8140115	HANDHOLE TO BE ADJUSTED	EACH	3	3			
	X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	48			48	
	X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	18			18	
	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	124.5	124.5			
+	XX000959	TRASH RECEPTACLE	EACH	5			5	
	XX005283	BRICK PAVER CROSSWALK	SQ FT	840			840	
	XX007824	BRICK PAVER ACCENT STRIP	SQ FT	12407			12407	
	XX007924	Banners	EACH	288	288			

SPECIALTY	ITEM NUMBER	ITEMS	UNIT	QUANTITY	TCSP		ITEP	
					0021	0031	0021	0031
+	Z0003850	BENCHES	EACH	5			5	
	Z0004538	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"	SQ YD	707			707	
	Z000456	COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT	FOOT	4761	4761			
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1			1	
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51			51	
	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6			6	
	Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1	1			
	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1			
□	Z0076600	TRAINEES	HOURL	500	250	250		
+	XX001249	ORNAMENTAL FENCE	FOOT	1315			1315	

+ SPECIALTY ITEM
 □ CONSTRUCTION TYPE CODE 0042

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm
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 DRAWN - CMH
 CHECKED - JLP
 DATE -

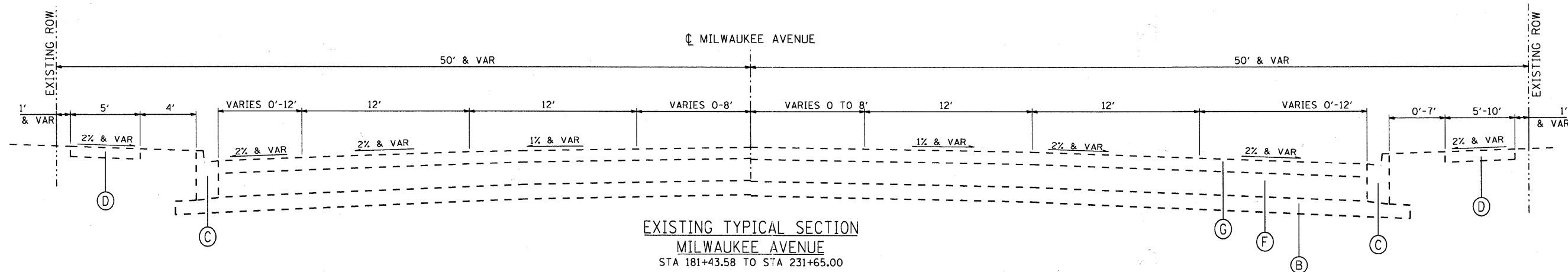
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 REVISED -
 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES MILWAUKEE AVENUE STREETScape PROJECT

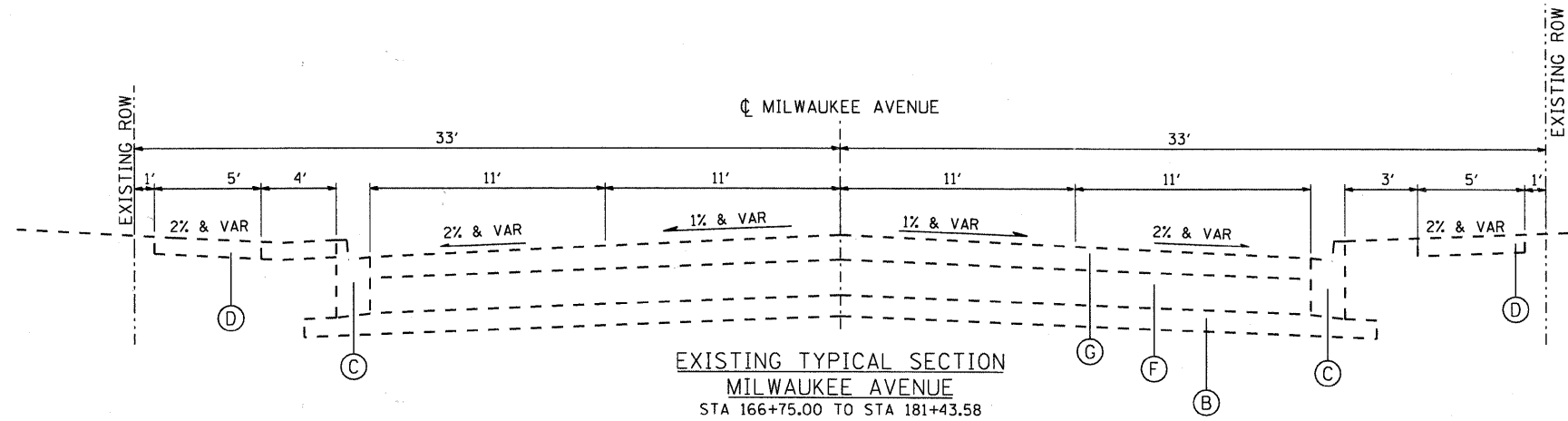
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	4
CONTRACT NO. 63622			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	



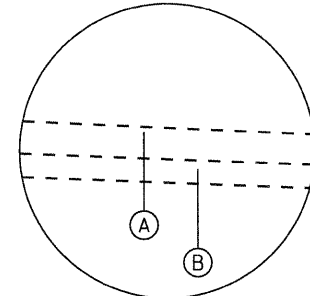
EXISTING TYPICAL SECTION
MILWAUKEE AVENUE
STA 181+43.58 TO STA 231+65.00

CONCRETE PAVEMENT FROM STA 181+43.58 TO STA 190+82.78
SEE DETAIL "A"



EXISTING TYPICAL SECTION
MILWAUKEE AVENUE
STA 166+75.00 TO STA 181+43.58

CONCRETE PAVEMENT FROM STA 176+15.78 TO STA 181+43.58
SEE DETAIL "A"



DETAIL "A"
CONCRETE PAVEMENT
STA 176+15.78 TO STA 190+82.78

EXISTING LEGEND

- (A) PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- (B) SUB-BASE GRANULAR MATERIAL
- (C) COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (MOD) (VARIABLE HEIGHT)
- (D) PORTLAND CEMENT CONCRETE SIDEWALK
- (E) CONCRETE MEDIAN (VARIABLE HEIGHT)
- (F) PORTLAND CEMENT CONCRETE BASE COURSE, 6" TO 8"
- (G) ASPHALT OVERLAYS, VARIES 3" TO 6"

COMPANY NAME: HRGreen.com
PROJECT CONTACT: #PROJECT CONTACT 1
DATE PLOTTED: 7/20/2011 4:24:11 PM
FILE NAME: 86100065-1yp-01.dgn
PLOT DRIVER: pdfplot
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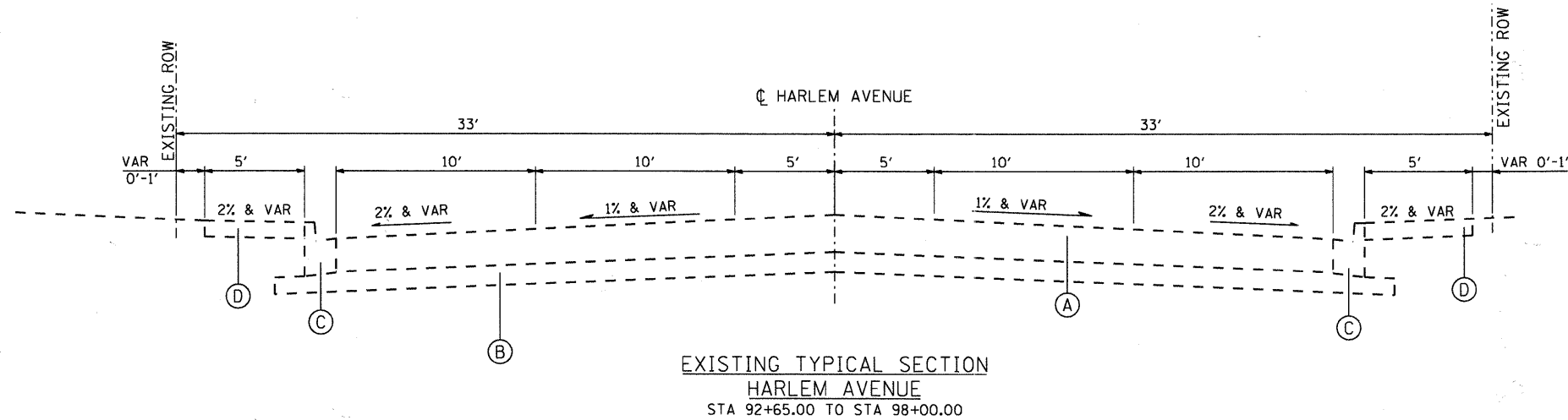


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PLOT SCALE = N.T.S.	DRAWN - CMH	REVISED -
PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

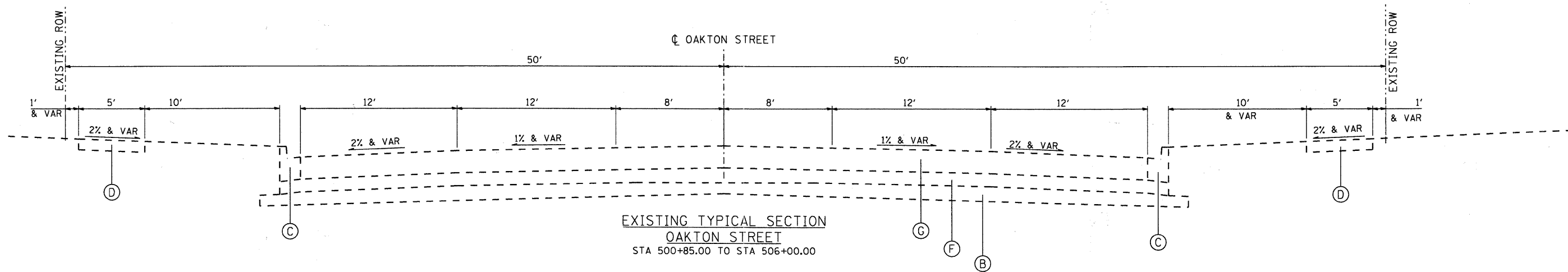
EXISTING TYPICAL SECTIONS MILWAUKEE AVENUE STREETScape PROJECT	
SCALE: N.T.S.	SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 5
FED. ROAD DIST. NO. [ILLINOIS]		FED. AID PROJECT CONTRACT NO. 63622		



EXISTING LEGEND

- (A) PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- (B) SUB-BASE GRANULAR MATERIAL
- (C) COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (MOD) (VARIABLE HEIGHT)
- (D) PORTLAND CEMENT CONCRETE SIDEWALK
- (E) CONCRETE MEDIAN (VARIABLE HEIGHT)
- (F) PORTLAND CEMENT CONCRETE BASE COURSE, 6" TO 8"
- (G) ASPHALT OVERLAYS, VARIES 3" TO 6"



COMPANY NAME: HRGreen.com
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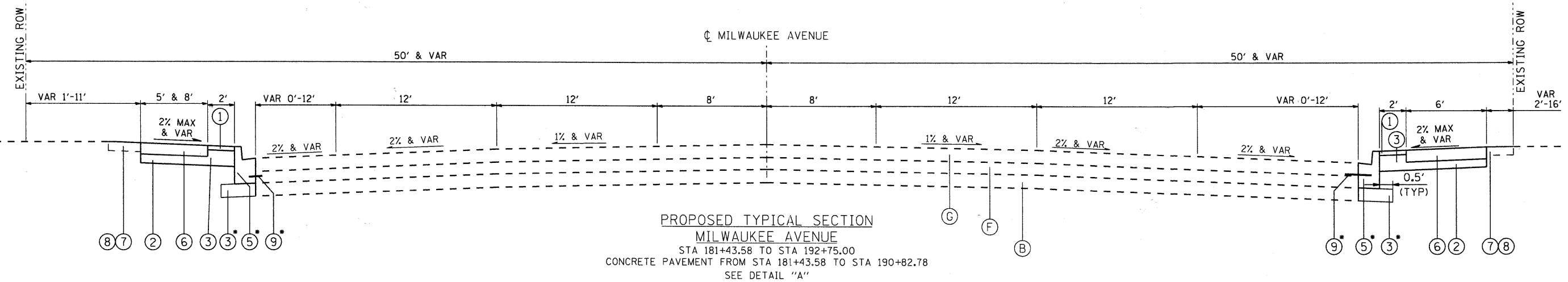
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PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
 MILWAUKEE AVENUE STREETScape PROJECT**

SCALE: N.T.S. SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	6
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63622	



**PROPOSED TYPICAL SECTION
MILWAUKEE AVENUE**

STA 181+43.58 TO STA 192+75.00
CONCRETE PAVEMENT FROM STA 181+43.58 TO STA 190+82.78
SEE DETAIL "A"

• SPOT CURB AND GUTTER REPLACEMENT. SEE PLANS FOR LOCATIONS

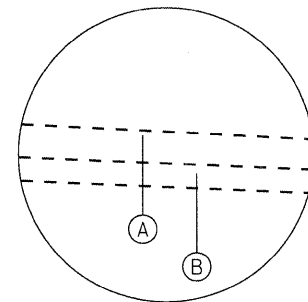
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS
PATCHING	
CLASS D PATCHES (HMA BINDER, IL-19mm)	4% @ 70 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR.
DRIVEWAYS	
HMA SURFACE COURSE, MIX "C", N 50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HMA BASE COURSE (HMA BINDER IL-19mm); PE -6", CE -8"	4% @ 50 GYR.

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS
112 LBS/SQ YD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR
NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY
DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



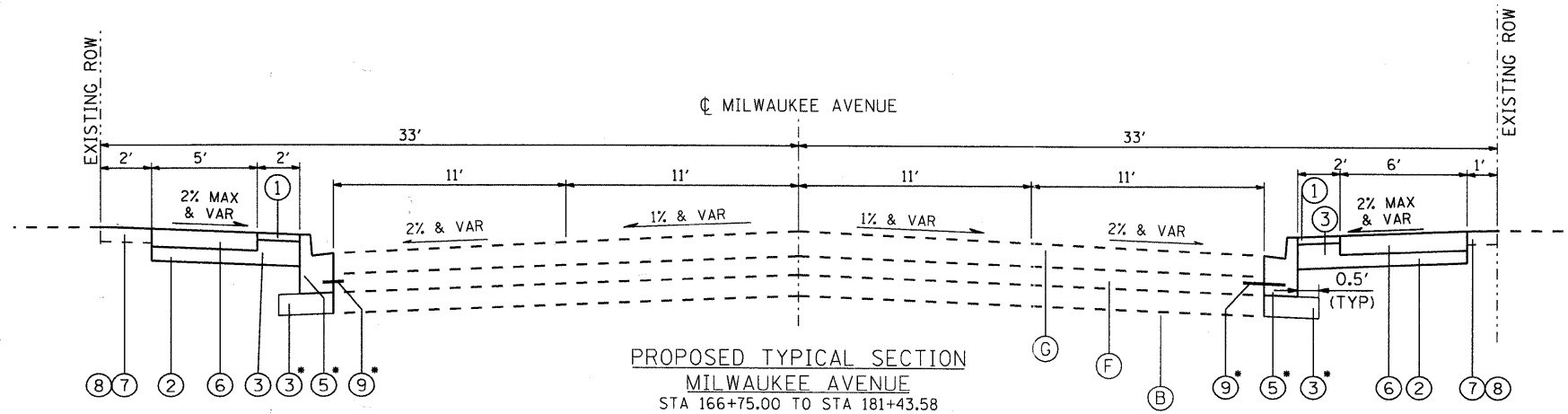
DETAIL "A"
CONCRETE PAVEMENT
STA 176+15.78 TO STA 190+82.78

PROPOSED LEGEND

- ① BRICK PAVER ACCENT STRIP (SEE LANDSCAPE PLANS FOR DETAILS)
- ② SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- ③ SUBBASE GRANULAR MATERIAL, TYPE B, 6"
- ④ NOT USED
- ⑤ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 OR COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SEE PLANS FOR LOCATIONS)
- ⑥ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑦ TOPSOIL FURNISH AND PLACE, 4"
- ⑧ SODDING
- ⑨ TIE BAR PER STATE STANDARDS (INCLUDED IN THE COST OF PAVEMENT ITEM BEING CONSTRUCTED)
- ⑩ CONCRETE PAVER BED, 4" (PAID FOR AS CONCRETE CURB (SPECIAL), (SEE LANDSCAPE PLANS FOR DETAILS)

EXISTING LEGEND

- (A) PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- (B) SUB-BASE GRANULAR MATERIAL
- (C) COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (MOD) (VARIABLE HEIGHT)
- (D) PORTLAND CEMENT CONCRETE SIDEWALK
- (E) CONCRETE MEDIAN (VARIABLE HEIGHT)
- (F) PORTLAND CEMENT CONCRETE BASE COURSE, 6" TO 8"
- (G) ASPHALT OVERLAYS, VARIES 3" TO 6"



**PROPOSED TYPICAL SECTION
MILWAUKEE AVENUE**

STA 166+75.00 TO STA 181+43.58

CONCRETE PAVEMENT FROM STA 176+15.78 TO STA 181+43.58
SEE DETAIL "A"

• SPOT CURB AND GUTTER REPLACEMENT. SEE PLANS FOR LOCATIONS

NOTE:
SEE BRICK PAVER ACCENT STRIP FOR DETAILS. WHEN PLACED
ADJACENT TO TOPSOIL AND SODDING, THE BRICK PAVER ACCENT
STRIP SHALL BE SUPPORTED BY A CONCRETE BASE. PAID FOR AS
CONCRETE CURB (SPECIAL).

COMPANY NAME: HRGreen.com
PROJECT CONTACT: #PROJECT CONTACT
CLIENT: #CLIENT
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PLOT DRIVER: pdfLait
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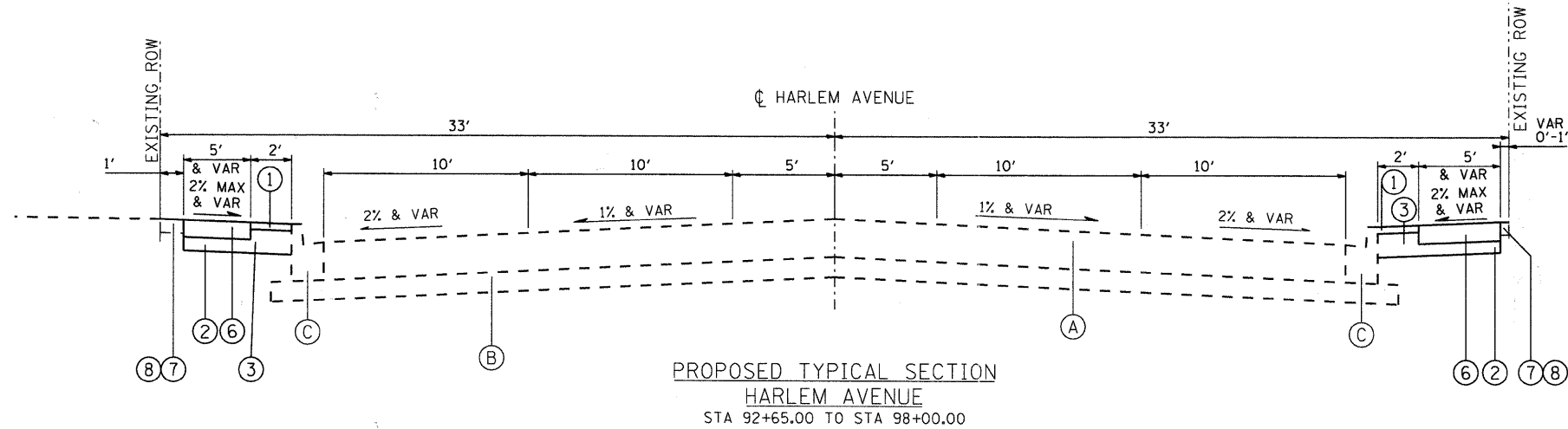
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PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
MILWAUKEE AVENUE STREETScape PROJECT**

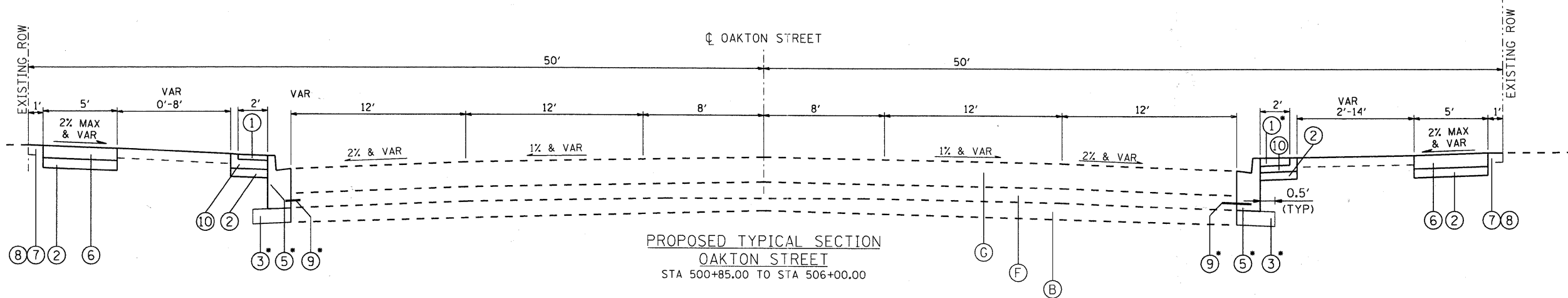
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63622	



PROPOSED LEGEND

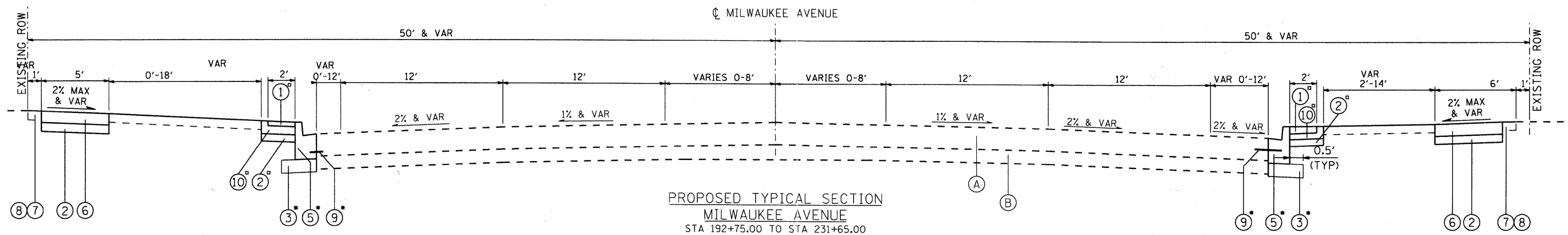
- ① BRICK PAVER ACCENT STRIP (SEE LANDSCAPE PLANS FOR DETAILS)
- ② SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- ③ SUBBASE GRANULAR MATERIAL, TYPE B, 6"
- ④ NOT USED
- ⑤ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 OR COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SEE PLANS FOR LOCATIONS)
- ⑥ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑦ TOPSOIL FURNISH AND PLACE, 4"
- ⑧ SODDING
- ⑨ TIE BAR PER STATE STANDARDS (INCLUDED IN THE COST OF PAVEMENT ITEM BEING CONSTRUCTED)
- ⑩ CONCRETE PAVER BED, 4" (PAID FOR AS CONCRETE CURB (SPECIAL), (SEE LANDSCAPE PLANS FOR DETAILS))



EXISTING LEGEND

- Ⓐ PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- Ⓑ SUB-BASE GRANULAR MATERIAL
- Ⓒ COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (MOD) (VARIABLE HEIGHT)
- Ⓓ PORTLAND CEMENT CONCRETE SIDEWALK
- Ⓔ CONCRETE MEDIAN (VARIABLE HEIGHT)
- Ⓕ PORTLAND CEMENT CONCRETE BASE COURSE, 6" TO 8"
- Ⓖ ASPHALT OVERLAYS, VARIES 3" TO 6"

NOTE:
SEE BRICK PAVER ACCENT STRIP FOR DETAILS. WHEN PLACED ADJACENT TO TOPSOIL AND SODDING, THE BRICK PAVER ACCENT STRIP SHALL BE SUPPORTED BY A CONCRETE BASE. PAID FOR AS CONCRETE CURB (SPECIAL).



*SPOT CURB AND GUTTER REPLACEMENT. SEE PLANS FOR LOCATIONS.
*NO BRICK PAVER ACCENT STRIP FROM 192+75.00 TO STA 213+16.00

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT_CONTACT1
 CLIENT: #CLIENT1
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 DRAWN - CMH
 CHECKED - JLP
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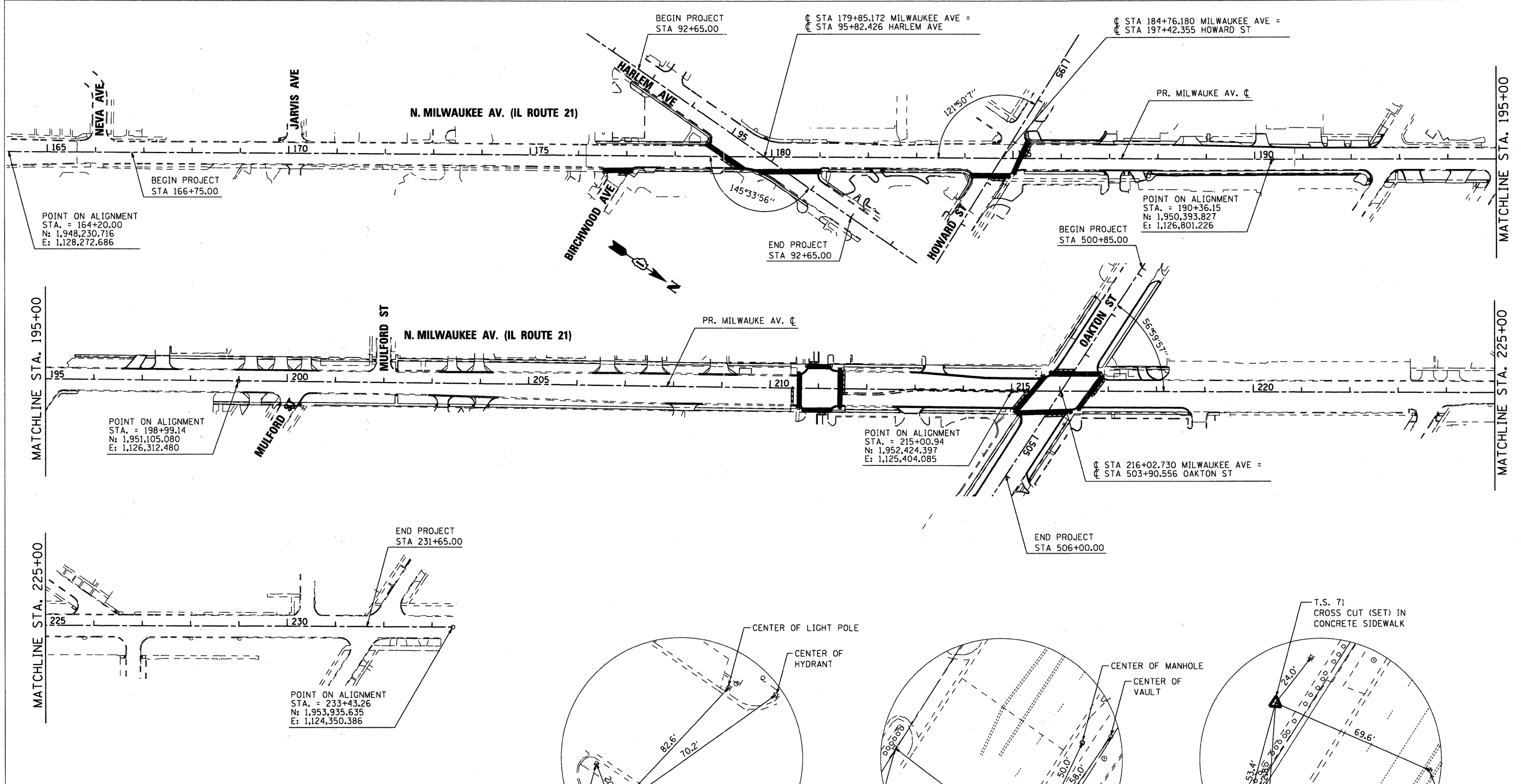
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
MILWAUKEE AVENUE STREETSCAPE PROJECT**

SCALE: N.T.S. SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	8
		CONTRACT NO. 63622		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



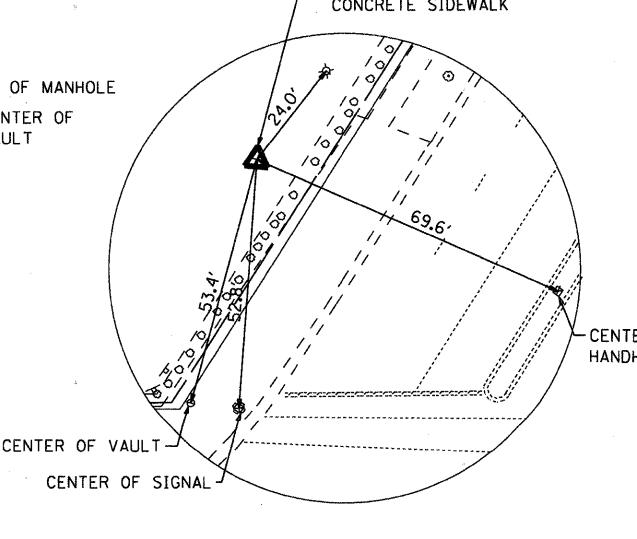
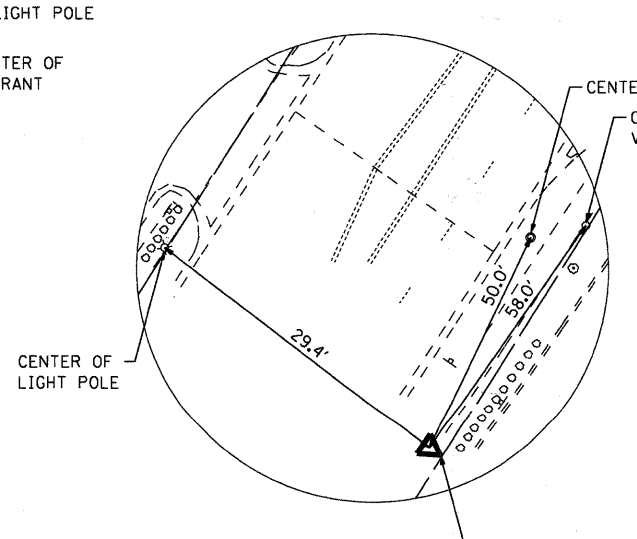
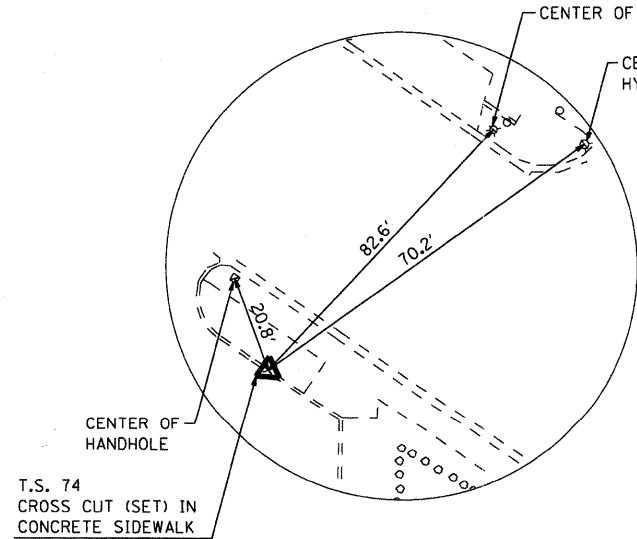
MATCHLINE STA. 195+00

MATCHLINE STA. 195+00

MATCHLINE STA. 225+00

MATCHLINE STA. 225+00

- BENCHMARKS**
- BM #1: VILLAGE OF NILES MONUMENT NO. 1 - SURVEY MONUMENT LOCATED APPROXIMATELY 137 FEET EAST/NORTHEAST OF THE CENTERLINE OF MILWAUKEE AVENUE AND 17 FEET NORTH/NORTHWEST OF THE CENTERLINE OF EBINGER STREET. ELEVATION = 619.93
 - BM #2: CUT CROSS IN CONCRETE SIDEWALK APPROXIMATELY 24 FEET EAST/NORTHEAST OF THE CENTERLINE OF MILWAUKEE AVENUE AND 51 FEET NORTH OF THE CENTERLINE OF WEST ALBIAN AVENUE. ELEVATION = 622.53
 - BM #3: CUT CROSS IN CONCRETE SIDEWALK APPROXIMATELY 27 FEET EAST/NORTHEAST OF THE CENTERLINE OF MILWAUKEE AVENUE AND 52 FEET SOUTH OF THE CENTERLINE OF BIRCHWOOD AVENUE. ELEVATION = 641.62



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 CLIENT: ILLINOIS
 DATE PLOTTED: 7/20/2011 4:25:14 PM
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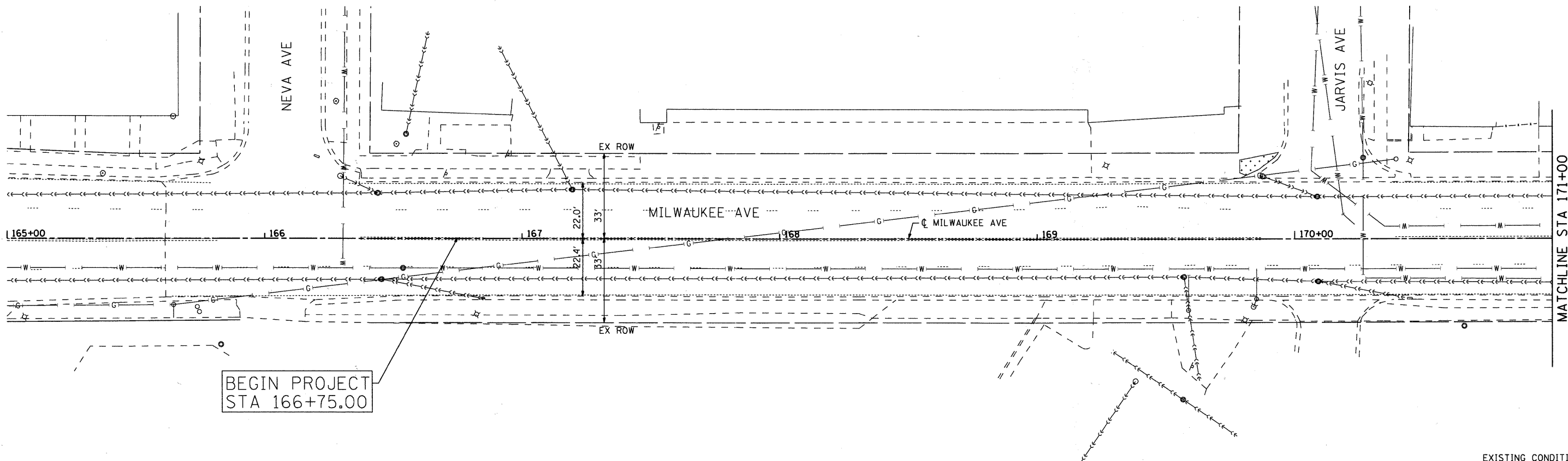
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PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIE & BENCHMARKS MILWAUKEE AVENUE
 MILWAUKEE AVENUE STREETSCAPE PROJECT**

SCALE: 1" = 100' SHEET NO. 1 OF SHEETS STA. TO STA.

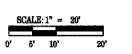
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	9
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63622	



EXISTING CONDITION

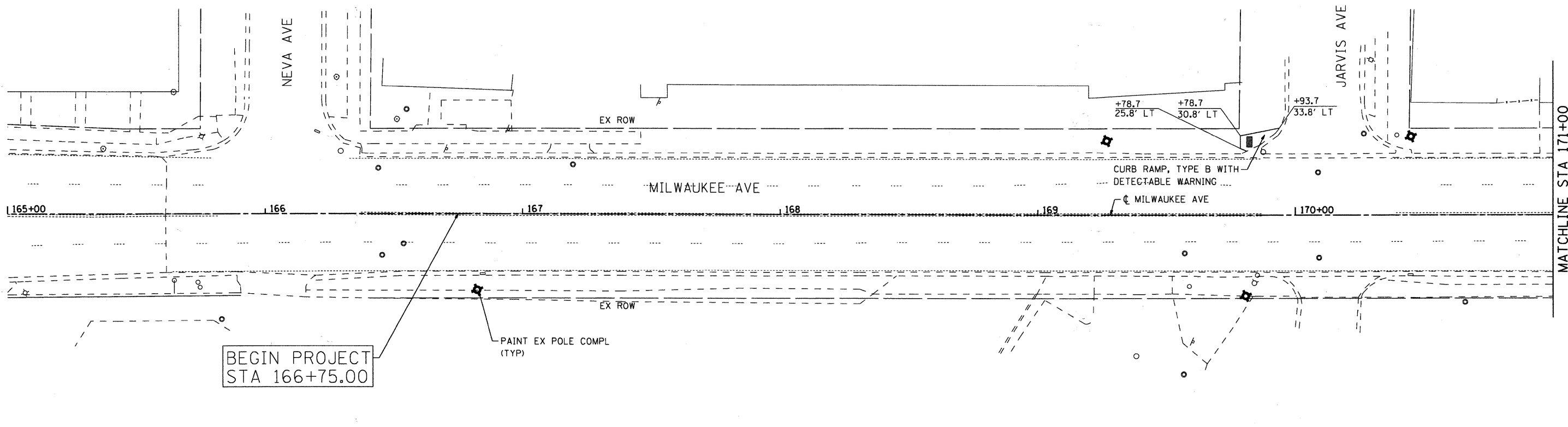


LEGEND:



- COMB CONC CURB & GUTTER REM AND REPL
- TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

- NOTES:**
1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
 2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
 3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



PROPOSED CONDITION

COMPANY NAME: HRGreen
 PROJECT CONTACT: #PROJECT/CONTACT/7
 DATE PLOTTED: 7/20/2011 4:25:58 PM
 FILE NAME: 8600065-2p-01.dgn
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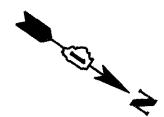
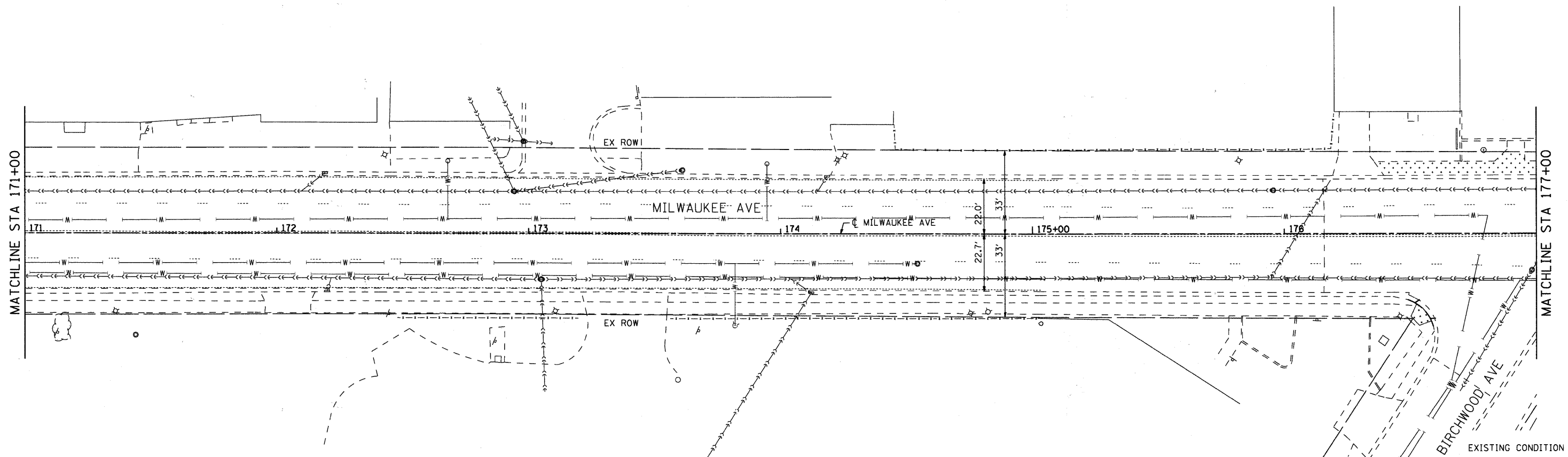


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PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
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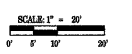
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MILWAUKEE AVENUE STREETSCAPE AND LANDSCAPE PLAN		
SCALE: 1"=20'	SHEET NO. 1 OF 14 SHEETS	STA. TO STA.

F.A.P. RTE. 374	SECTION 10-00111-00-L5	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 10
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 63622		

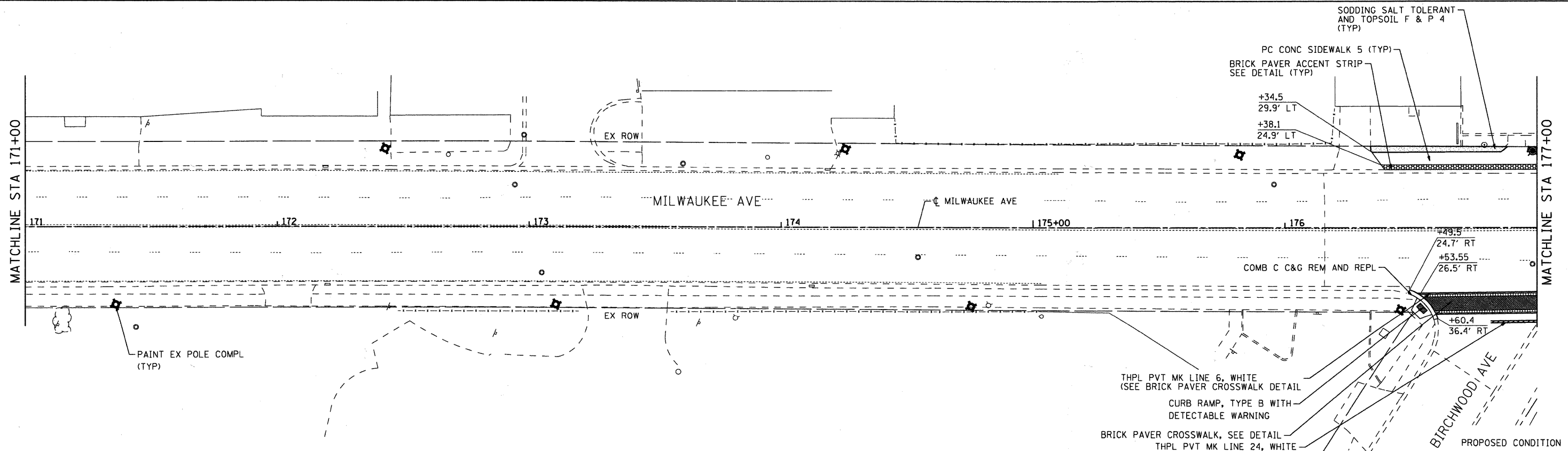


LEGEND:



- COMB CONC CURB & GUTTER REM AND REPL
- ⊗ 12 TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- ☆ EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- ADJ FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMAS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

- NOTES:**
- ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
 - PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
 - ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT CONTACT 1
 CLIENT: #CLIENT 1
 FILE NAME: 8620005-2p-02.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: standard-tran.tbl



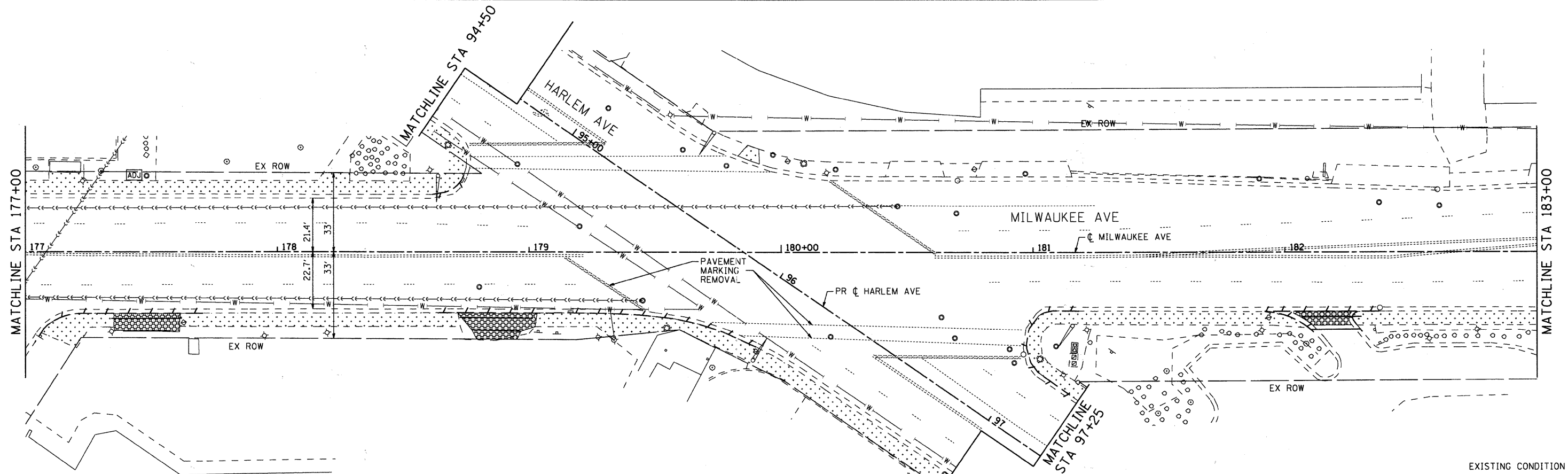
USER NAME = Char-ke	DESIGNED - CMH	REVISED -
PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
PLOT DATE = 7/28/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

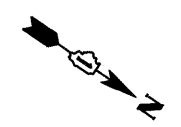
**MILWAUKEE AVENUE
STREETSCAPE AND LANDSCAPE PLAN**

SCALE: 1"=20' SHEET NO. 2 OF 14 SHEETS STA. TO STA.

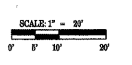
F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 11
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
		CONTRACT NO. 63622		



EXISTING CONDITION

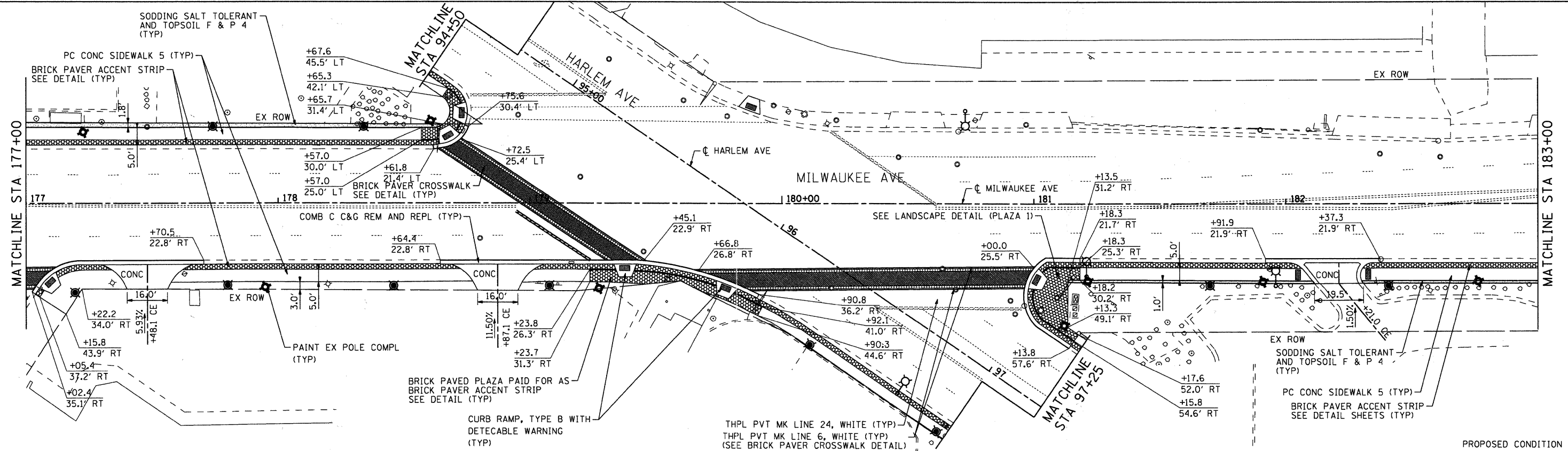


LEGEND:



- COMB CONC CURB & GUTTER REM AND REPL
- TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMAS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

- NOTES:**
1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
 2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
 3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



PROPOSED CONDITION

COMPANY NAME: HRGreen
 PROJECT CONTACT: #PROJECT CONTACT
 CLIENT: #CLIENT
 DATE PLOTTED: 7/20/2011 4:33:33 PM
 FILE NAME: 89100065-0-03.dgn
 PLOT NUMBER: 3
 PLOT TABLE: standard-trans.tbl



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 PLOT SCALE = 1"=20'
 PLOT DATE = 7/20/2011

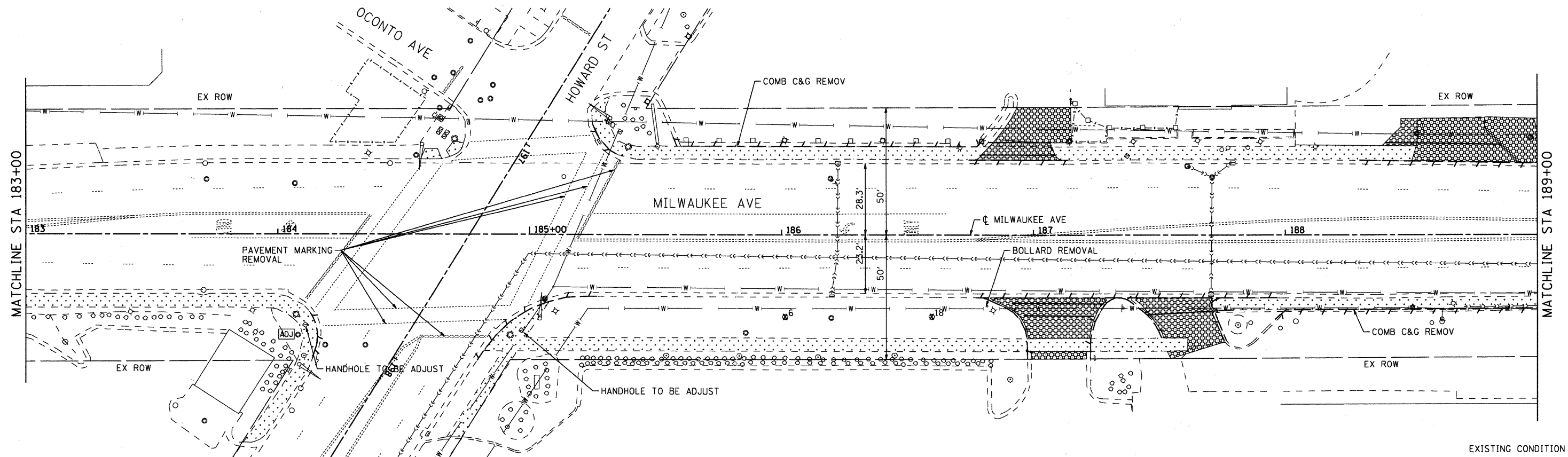
DESIGNED - CMH	REVISED -
DRAWN - CMH	REVISED -
CHECKED - JLP	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MILWAUKEE AVENUE
 STREETScape AND LANDSCAPE PLAN**

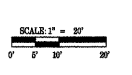
SCALE: 1"=20' SHEET NO. 3 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	12
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63622	



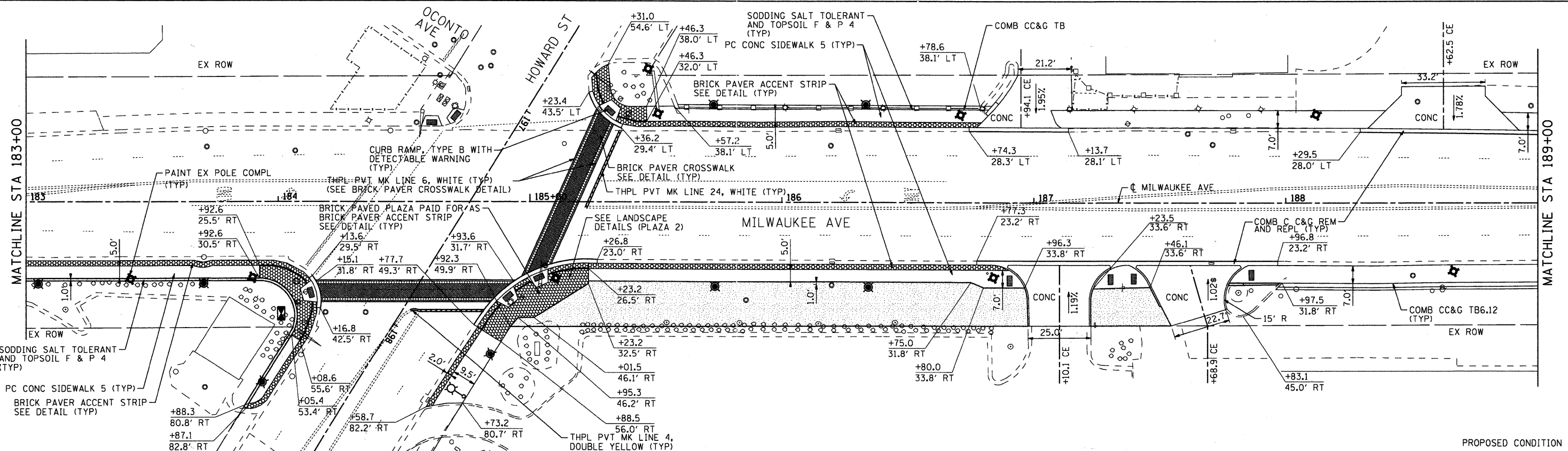
EXISTING CONDITION

LEGEND:



- COMB CONC CURB & GUTTER REM AND REPL
- TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

- NOTES:**
1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
 2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
 3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



PROPOSED CONDITION

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT CONTACT
 CLIENT: #CLIENT
 DATE PLOTTED: 7/20/2011 4:15:55 PM
 FILE NUMBER: 860086-SP-0409n
 PEN TABLE: standard-trans.tbl



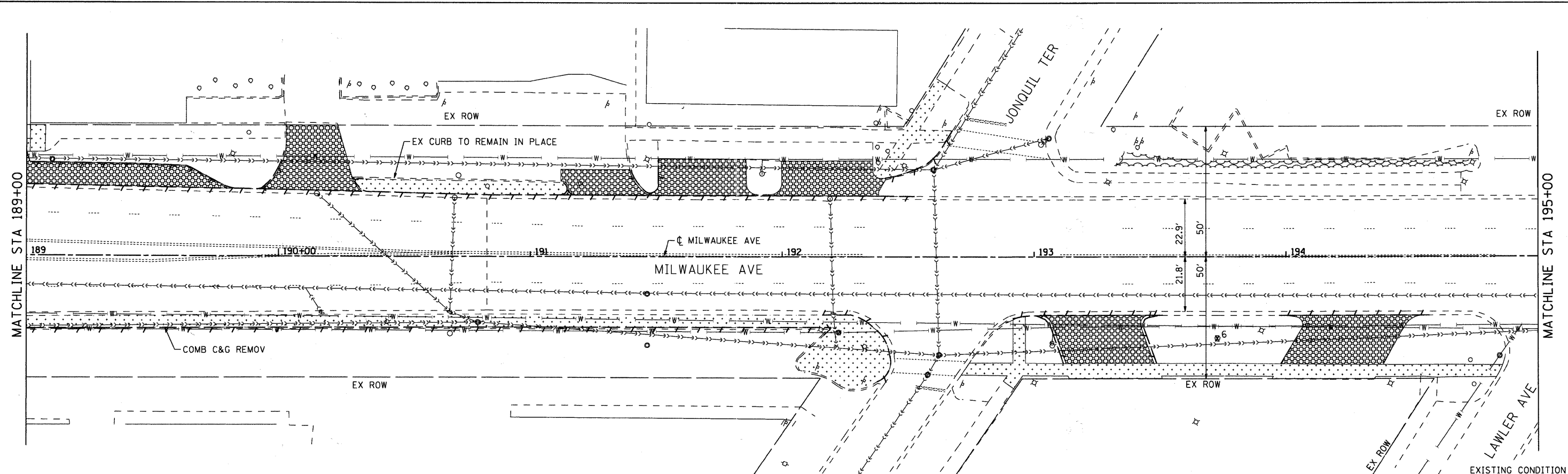
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PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MILWAUKEE AVENUE
STREETSCAPE AND LANDSCAPE PLAN**

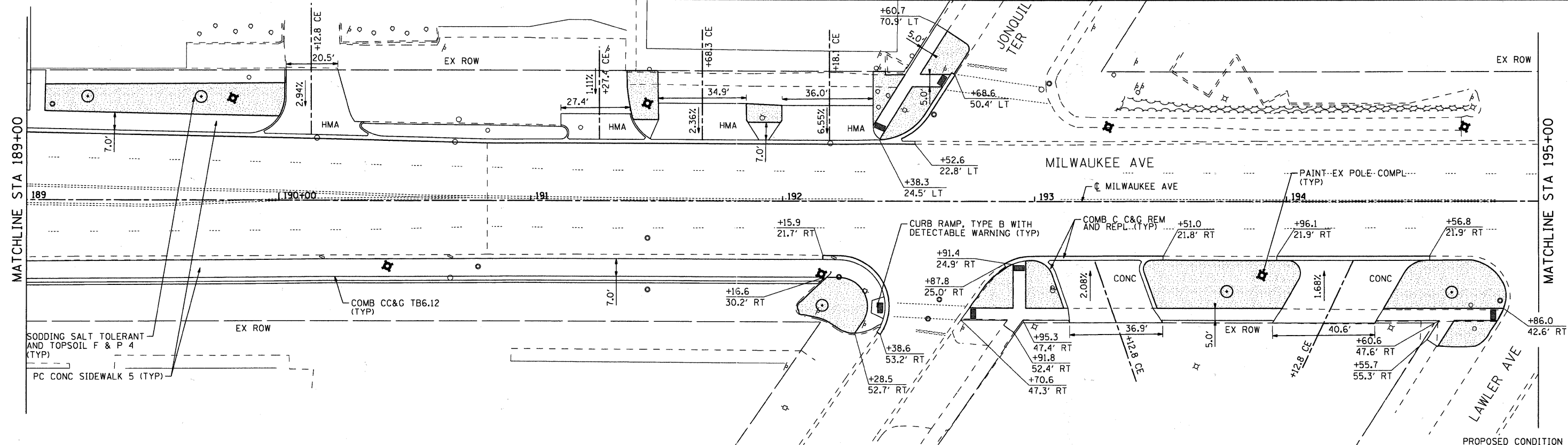
SCALE: 1"=20' SHEET NO. 4 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 13
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63622	



LEGEND:

	COMB CONC CURB & GUTTER REM AND REPL		EXISTING LIGHT POLE		PROPOSED PEDESTRIAN LIGHT	NOTES: 1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED. 2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN. 3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.
	TREE REMOVAL (WITH SIZE)		PAINT EX LIGHT POLE UNIT		ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)	
	DRIVEWAY PAVEMENT REMOVAL		FRAMES AND LIDS TO BE ADJUSTED		SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMAS 'SKYLINE')	
	SIDEWALK REMOVAL		ORNAMENTAL FENCE, ALUMINIUM		PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)	
	PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING		CURB RAMP WITH DETECTABLE WARNINGS			



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT_CONTACT7
 CLIENT: #CLIENT1
 DATE PLOTTED: 7/20/2011 4:46:09 PM
 FILE NAME: 8100085-2p-05.dgn
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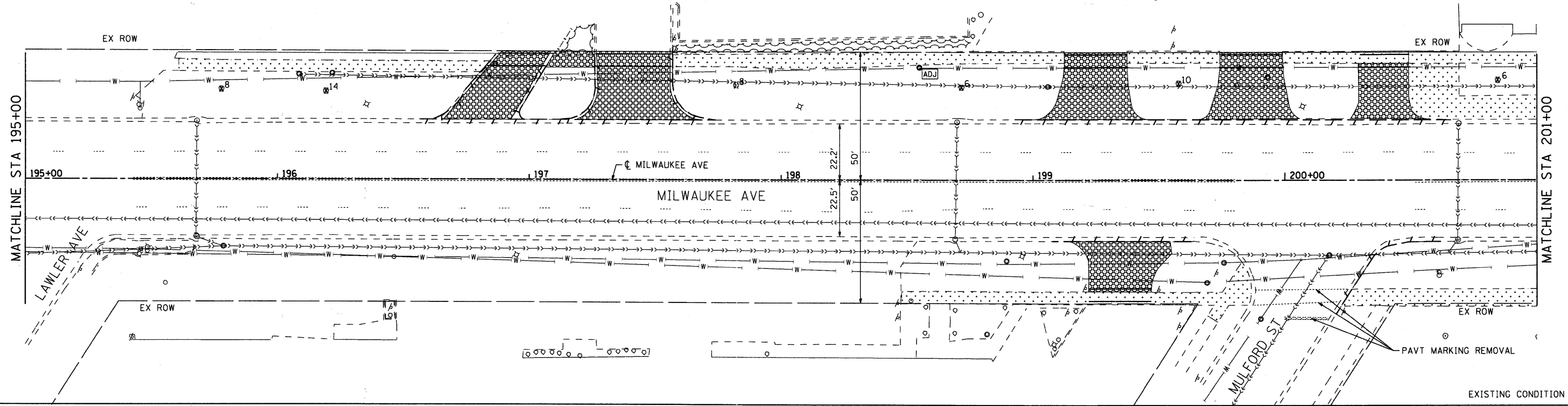
USER NAME = Chortke	DESIGNED - CMH	REVISED -
PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

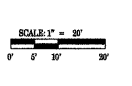
MILWAUKEE AVENUE
STREETSCAPE AND LANDSCAPE PLAN

F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 14
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		CONTRACT NO. 63622		

SCALE: 1"=20' SHEET NO. 5 OF 14 SHEETS STA. TO STA.

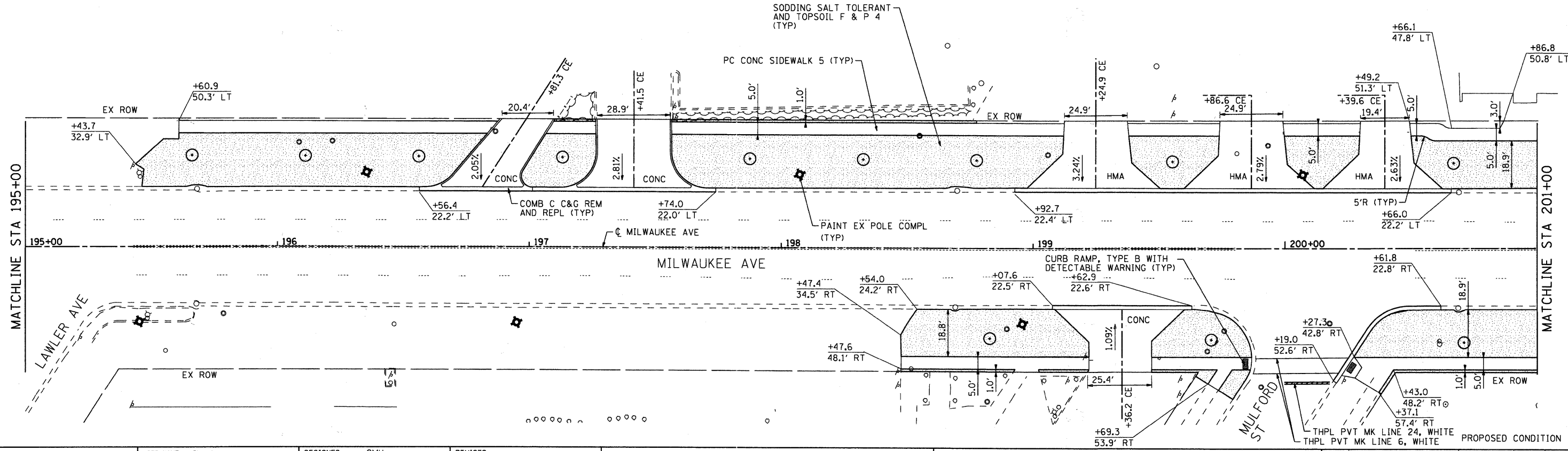


LEGEND:



- COMB CONC CURB & GUTTER REM AND REPL
- TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMAS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

- NOTES:**
1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
 2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
 3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: JLP
 CLIENT: STATE OF ILLINOIS
 FILE NAME: 10-00111-00-LS
 PLOT DRIVER: pdt.tbl
 PEN TABLE: standard-trans.tbl

HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = Charke	DESIGNED - CMH	REVISED -
PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
PLOT DATE = 7/28/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

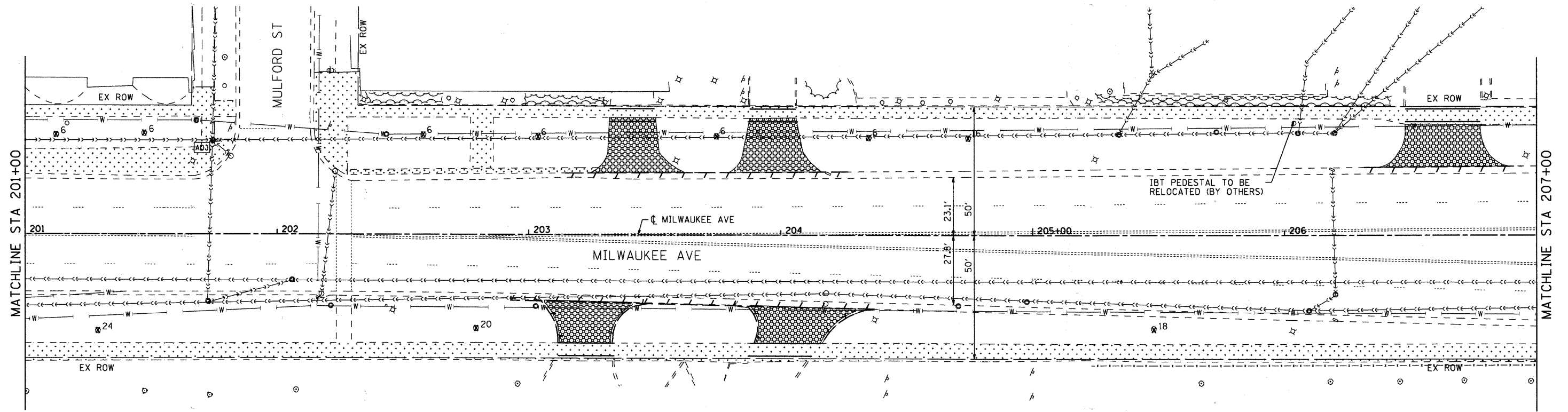
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MILWAUKEE AVENUE
STREETSCAPE AND LANDSCAPE PLAN

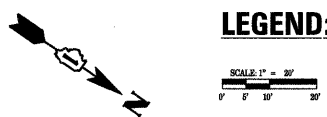
SCALE: 1"=20' SHEET NO. 6 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 15
FED. ROAD DIST. NO. ILLINOIS		CONTRACT NO. 63622		

FED. AID PROJECT



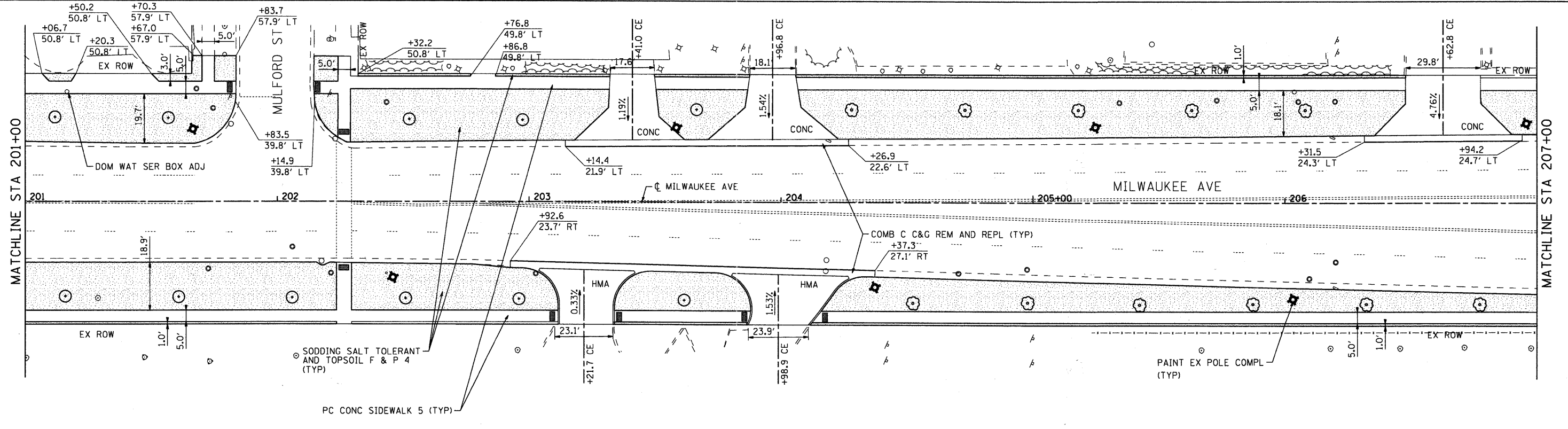
EXISTING CONDITION



LEGEND:

- COMB CONC CURB & GUTTER REM AND REPL
- TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

- NOTES:**
1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
 2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
 3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



PROPOSED CONDITION

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT CONTACT
 CLIENT: #CLIENT
 FILE NAME: #FILE NAME
 PLOT DRIVER: #PLOT DRIVER
 PEN TABLE: #PEN TABLE



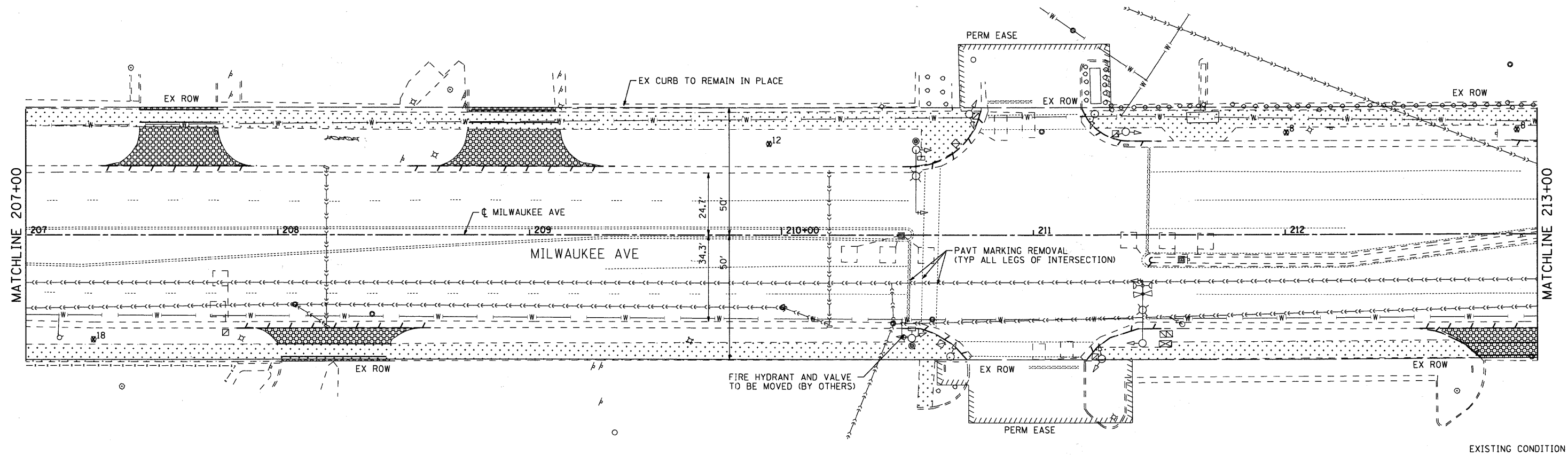
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PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MILWAUKEE AVENUE
STREETSCAPE AND LANDSCAPE PLAN**

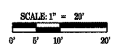
SCALE: 1"=20' SHEET NO. 7 OF 14 SHEETS STA. TO STA.

F.A. P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 16
CONTRACT NO. 63622				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



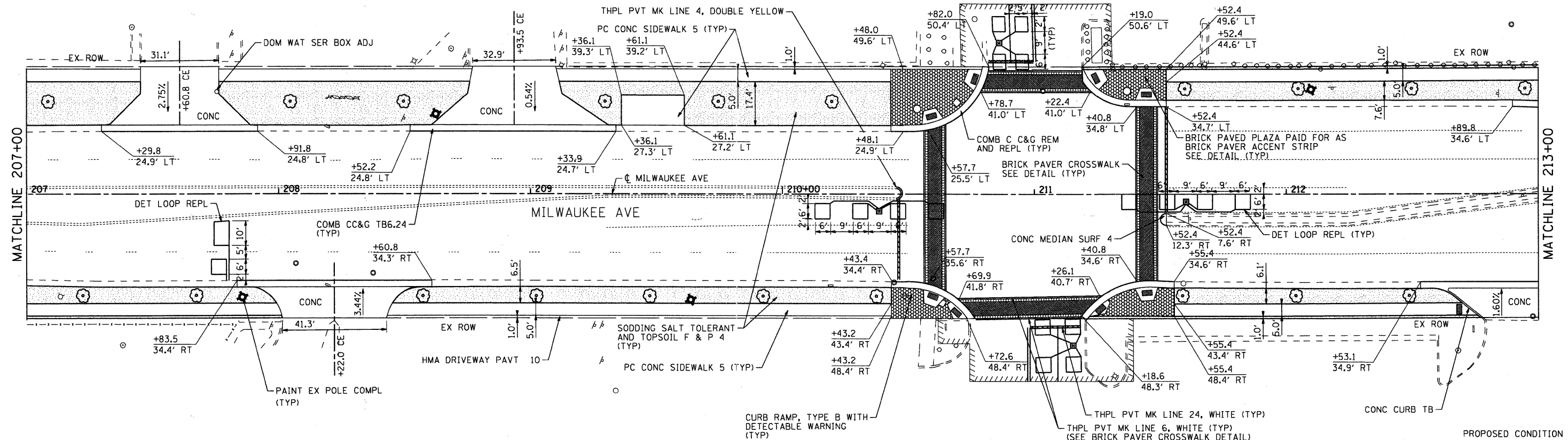
EXISTING CONDITION

LEGEND:



- COMB CONC CURB & GUTTER REM AND REPL
- TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMAS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

- NOTES:**
1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
 2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
 3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



PROPOSED CONDITION

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 CLIENT: HRGreen
 DATE PLOTTED: 7/28/2011 4:50:04 PM
 FILE NAME: 86100065-SP-08.dgn
 PLOT DRIVER: pldrvr
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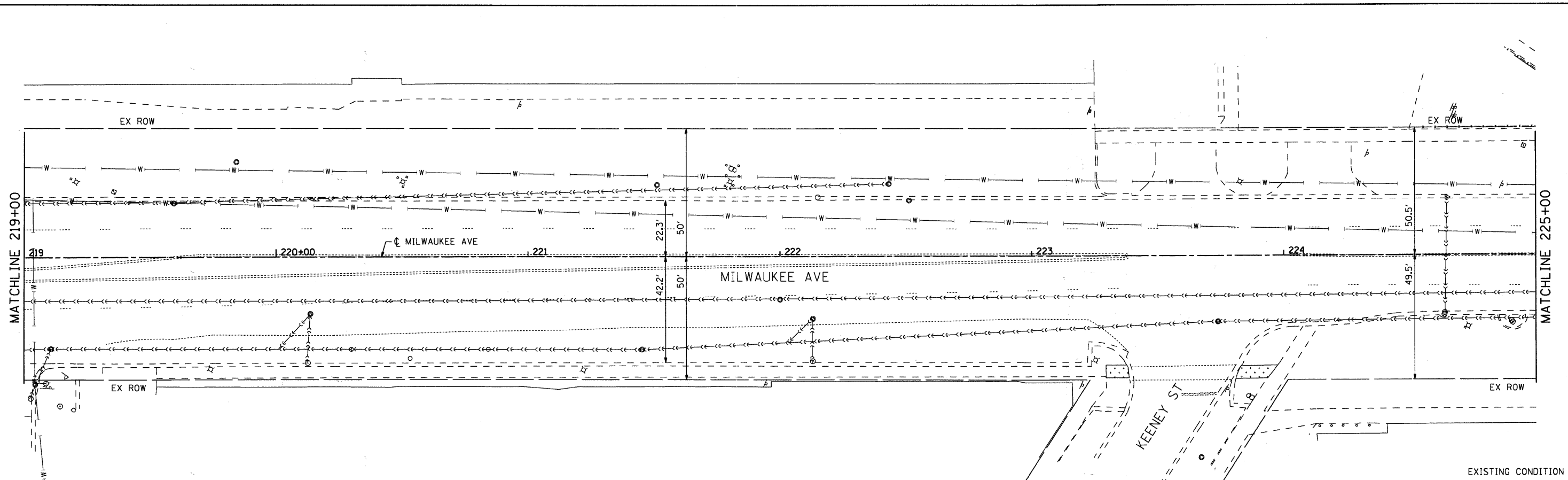


USER NAME = Charlotte	DESIGNED - CMH	REVISED -
PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
PLOT DATE = 7/28/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

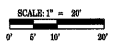
MILWAUKEE AVENUE STREETSCAPE AND LANDSCAPE PLAN	
SCALE: 1"=20'	SHEET NO. 8 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 17
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		CONTRACT NO. 63622		



EXISTING CONDITION

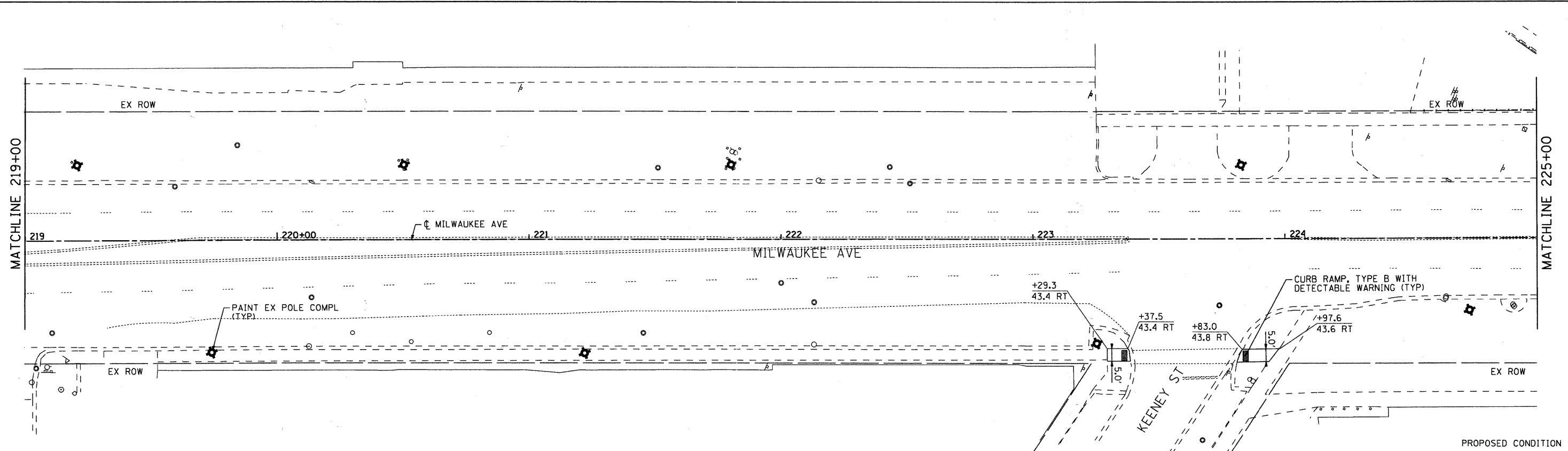
LEGEND:



SCALE: 1" = 20'

- COMB CONC CURB & GUTTER REM AND REPL
- TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

- NOTES:**
1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
 2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
 3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



PROPOSED CONDITION

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT CONTACT
 CLIENT: #CLIENT
 DATE PLOTTED: 8/16/2011 4:16:01 PM
 DATE PLOTTED: 8/16/2011 4:16:01 PM
 PLOT DRIVER: pldrvr
 PEN TABLE: standard-trans.tbl



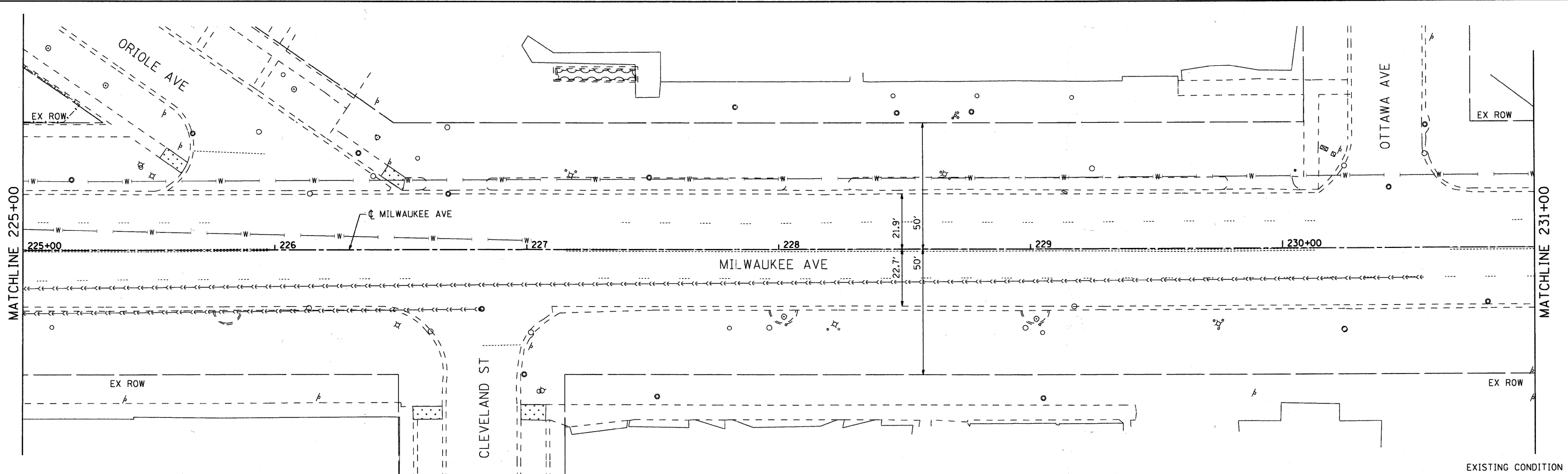
USER NAME = Charkie	DESIGNED - CMH	REVISED -
PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MILWAUKEE AVENUE
STREETSCAPE AND LANDSCAPE PLAN**

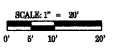
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












F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 19
CONTRACT NO. 63622		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		



EXISTING CONDITION

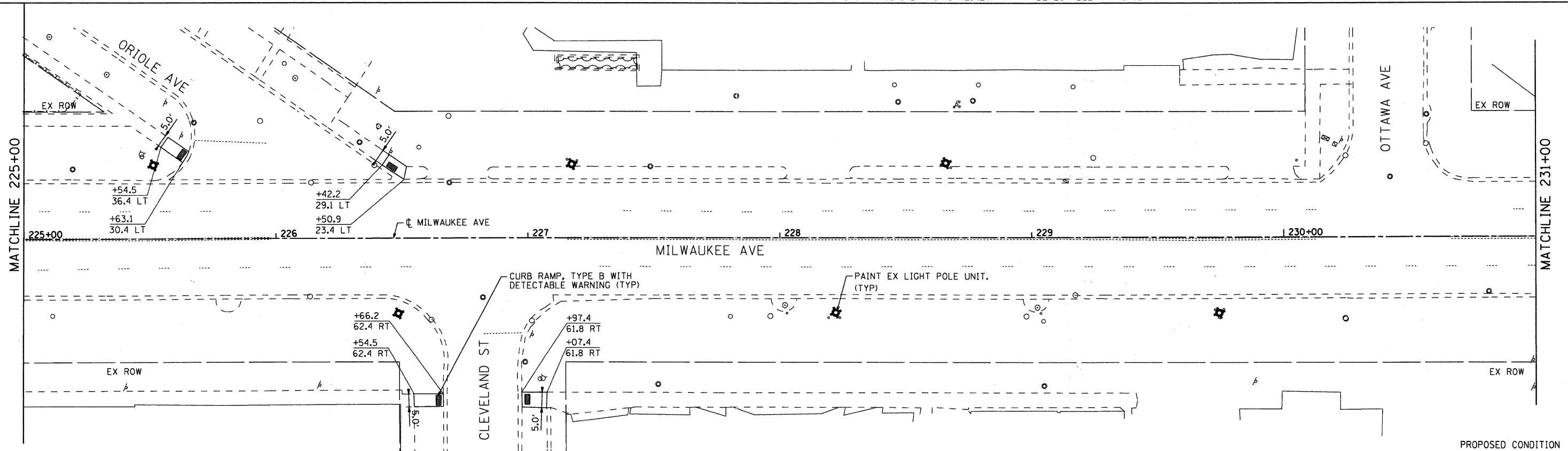
LEGEND:



-  COMB CONC CURB & GUTTER REM AND REPL
-  TREE REMOVAL (WITH SIZE)
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  EXISTING LIGHT POLE
-  PAINT EX LIGHT POLE UNIT
-  FRAMES AND LIDS TO BE ADJUSTED
-  ORNAMENTAL FENCE, ALUMINIUM
-  PROPOSED PEDESTRIAN LIGHT
-  PROPOSED STREET LIGHT
-  ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
-  SKYLINE HONEYLOCUST (GLEDTISIA TRIACANTHOS INERMAS 'SKYLINE')
-  PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
-  PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
-  CURB RAMP WITH DETECTABLE WARNINGS



NOTES:

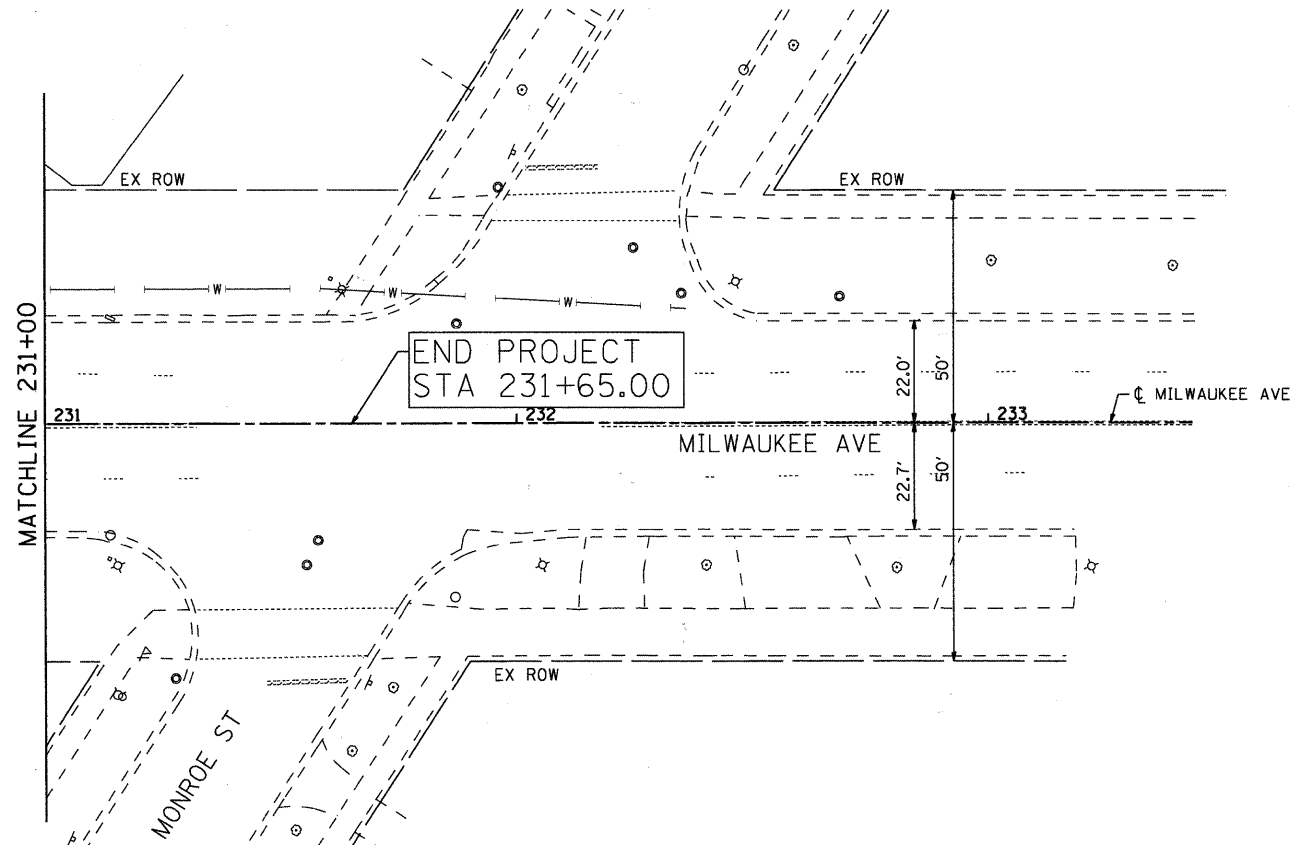
1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



PROPOSED CONDITION

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 7/20/2011 4:16:06 PM
 FILE NAME: 86100065-2p-11.dgn
 PLOT DRIVER: default
 PEN TABLE: standard-trans.tbl

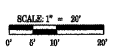
	USER NAME = CHertke	DESIGNED - CMH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MILWAUKEE AVENUE STREETSCAPE AND LANDSCAPE PLAN			F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 20
	PLOT SCALE = 1"=20'	CHECKED - JLP	REVISED -		REVISED -	SCALE: 1"=20'	SHEET NO. 11 OF 14 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 63622			
	PLOT DATE = 7/20/2011	DATE -	REVISED -									



EXISTING CONDITION



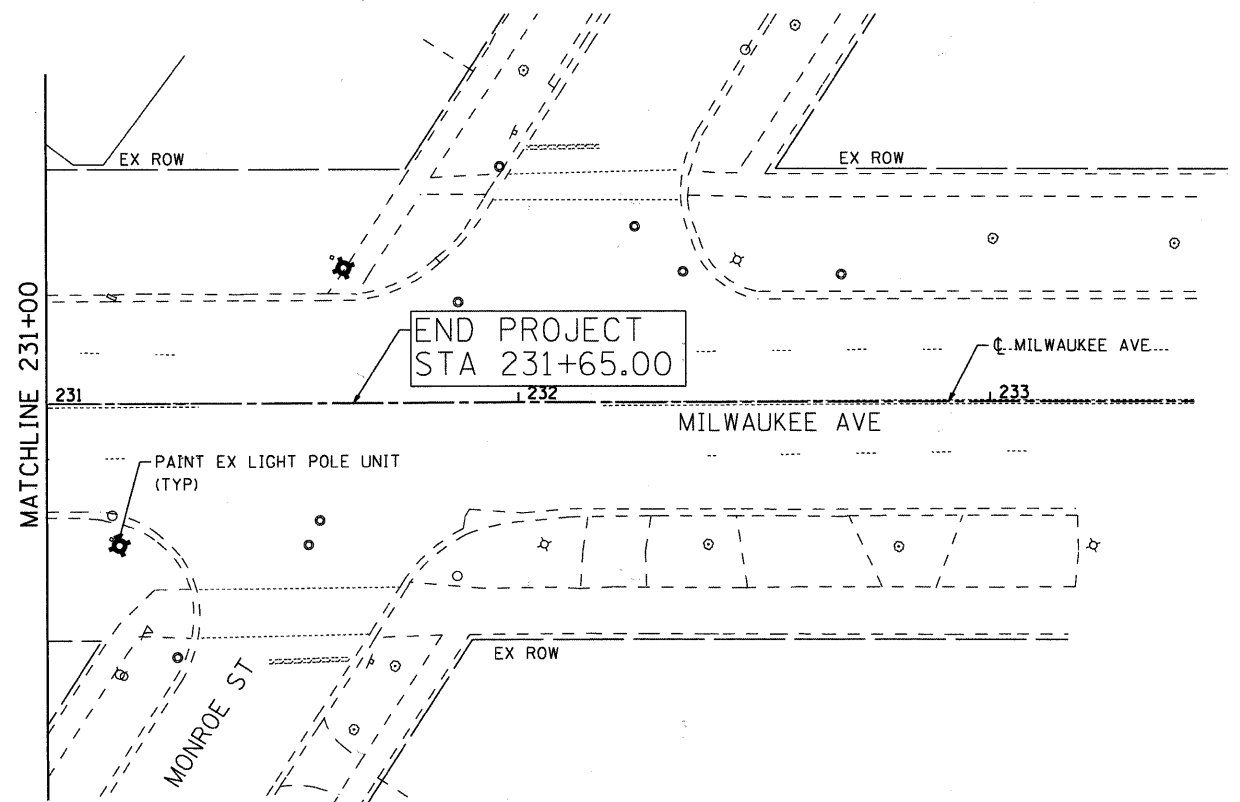
LEGEND:



- COMB CONC CURB & GUTTER REM AND REPL
- TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMAS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



PROPOSED CONDITION

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT_CONTACT/1
 CLIENT: #CLIENT/1
 FILE NAME: 86100065-SP-12.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl

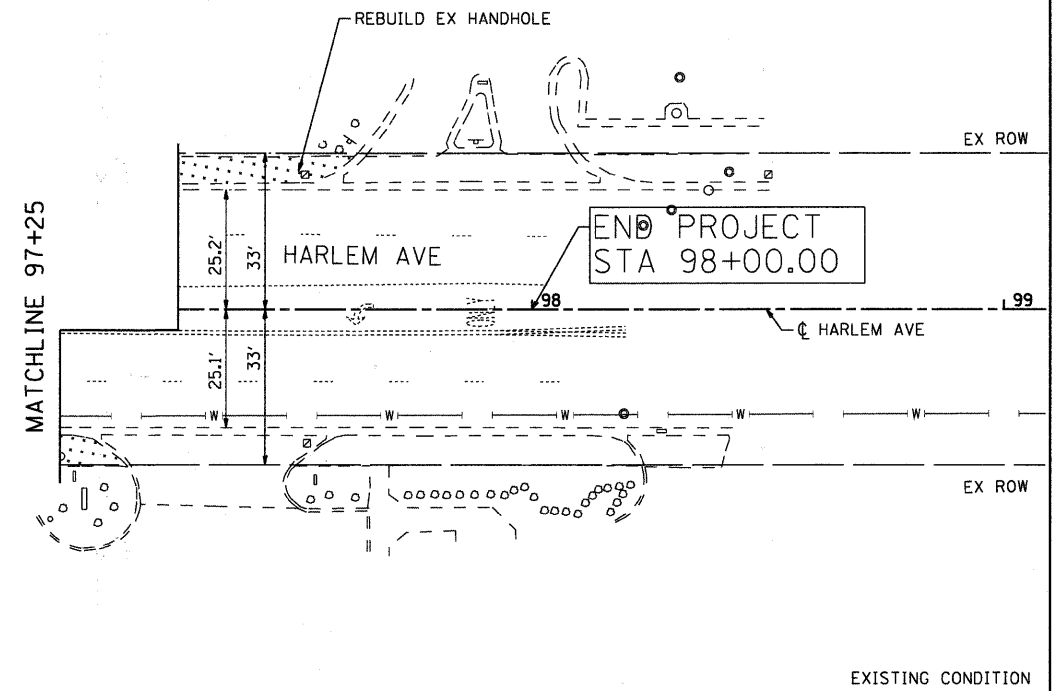
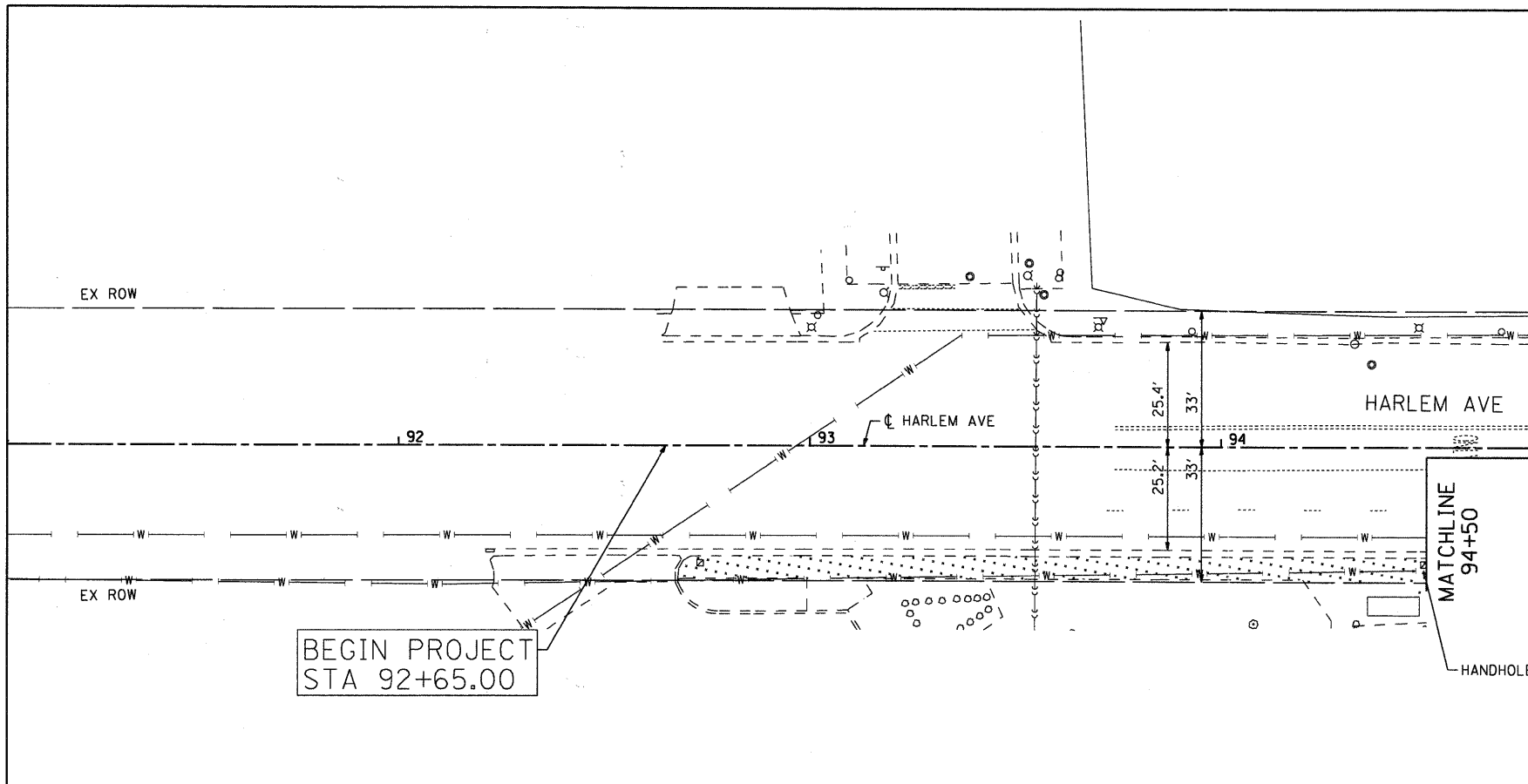


USER NAME = Charlotte	DESIGNED - CMH	REVISED -
PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
PLOT DATE = 7/28/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

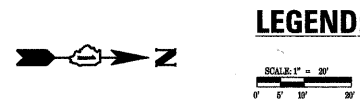
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MILWAUKEE AVENUE STREETSCAPE AND LANDSCAPE PLAN			
SCALE: 1"=20'	SHEET NO. 12 OF 14 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	21
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63622	



EXISTING CONDITION

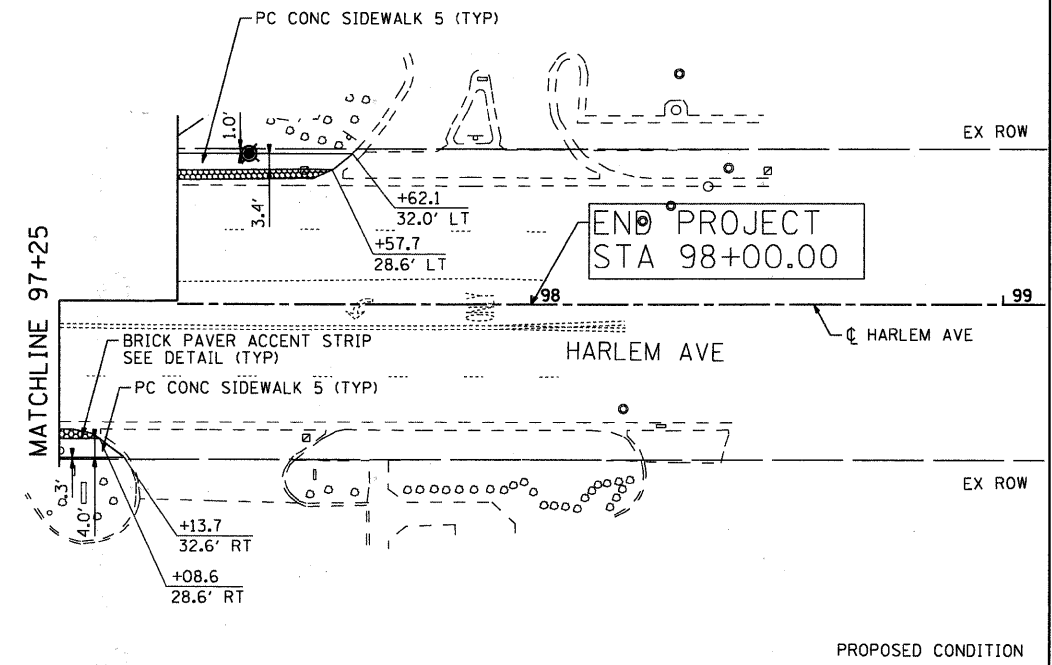
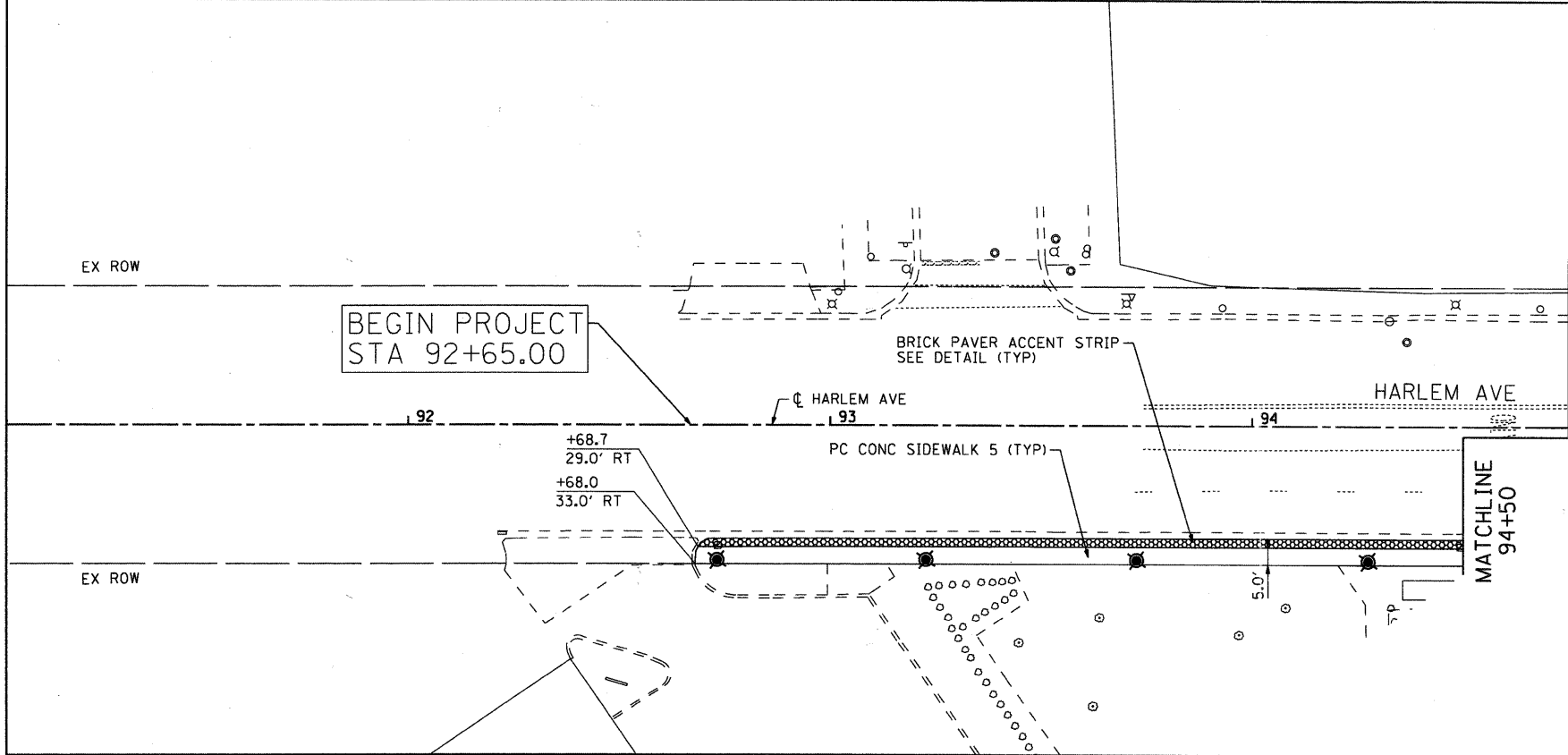


LEGEND:

- COMB CONC CURB & GUTTER REM AND REPL
- TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMAS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

NOTES:

1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



PROPOSED CONDITION

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 CLIENT: OTTED
 FILE NAME: 10-00111-00-LS
 PLOT DRIVER: pdt.tbl
 PEN TABLE: standard-trans.tbl

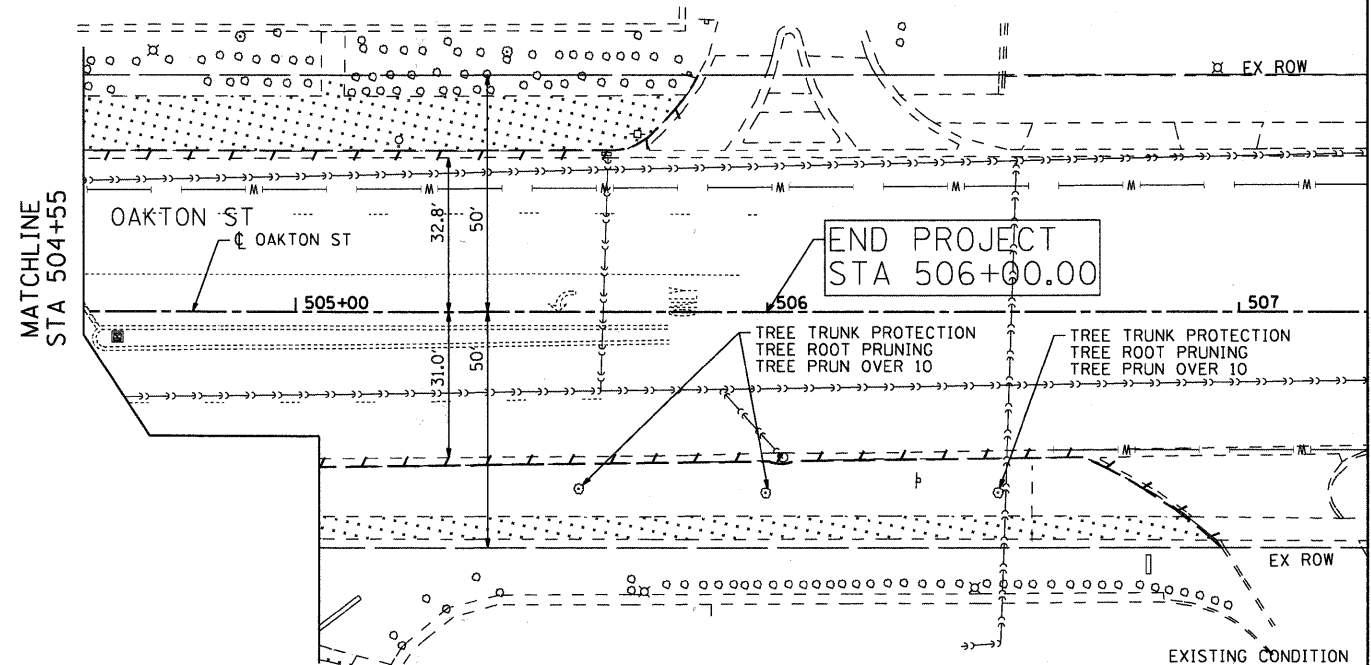
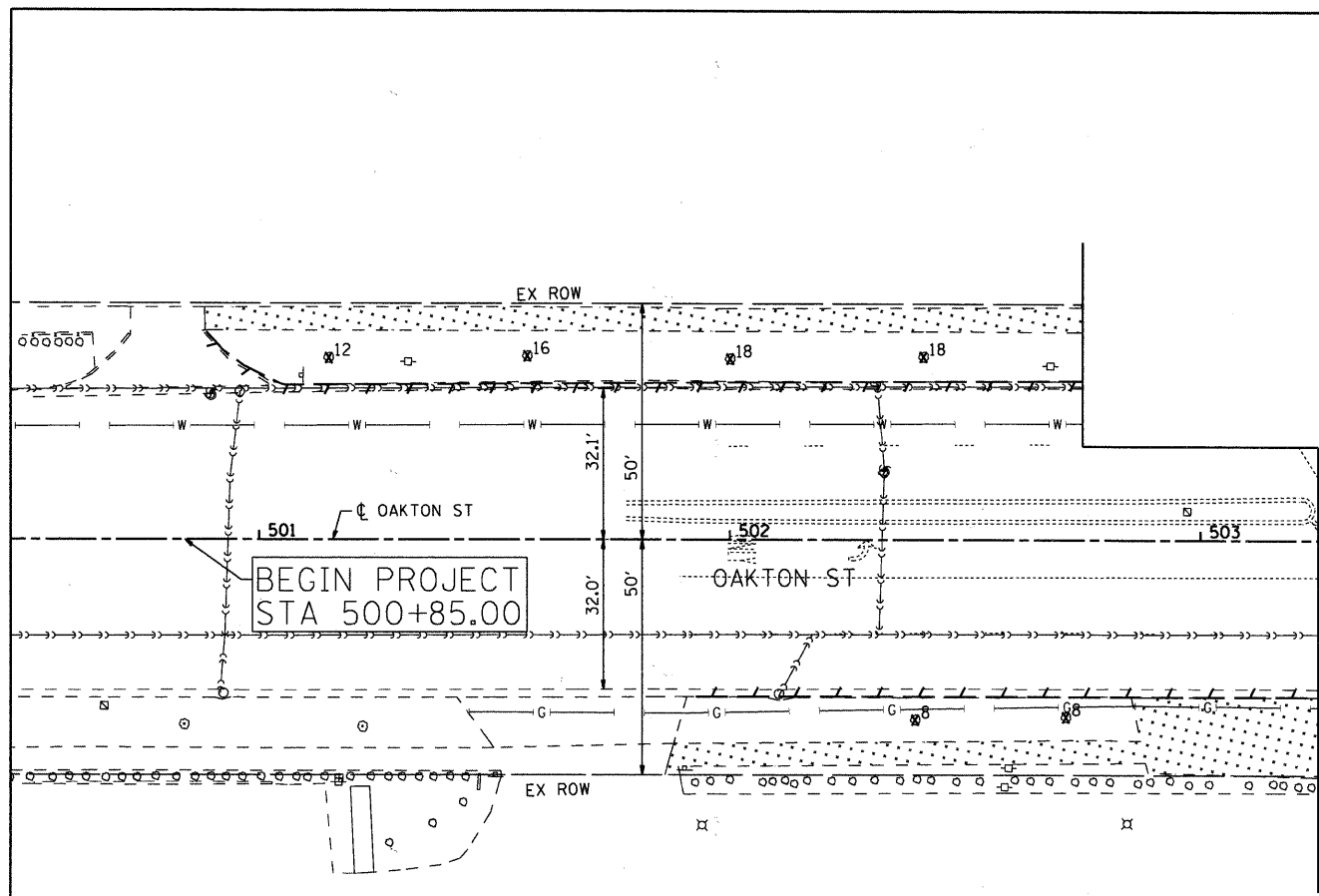


USER NAME = Char-ke	DESIGNED - CMH	REVISED -
PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
PLOT DATE = 7/28/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

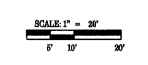
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MILWAUKEE AVENUE STREETSCAPE AND LANDSCAPE PLAN	
SCALE: 1"=20'	TO STA.

F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 22
CONTRACT NO. 63622				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

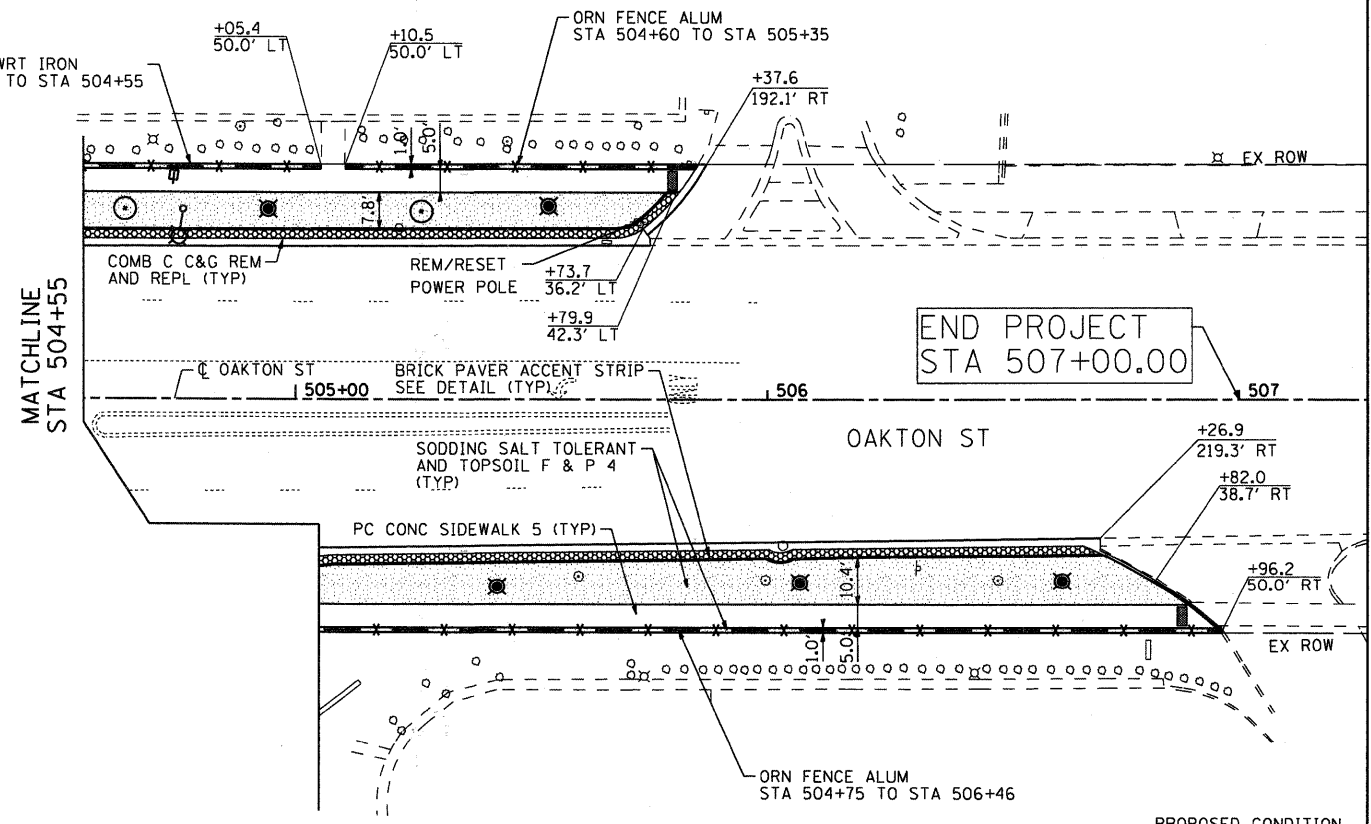
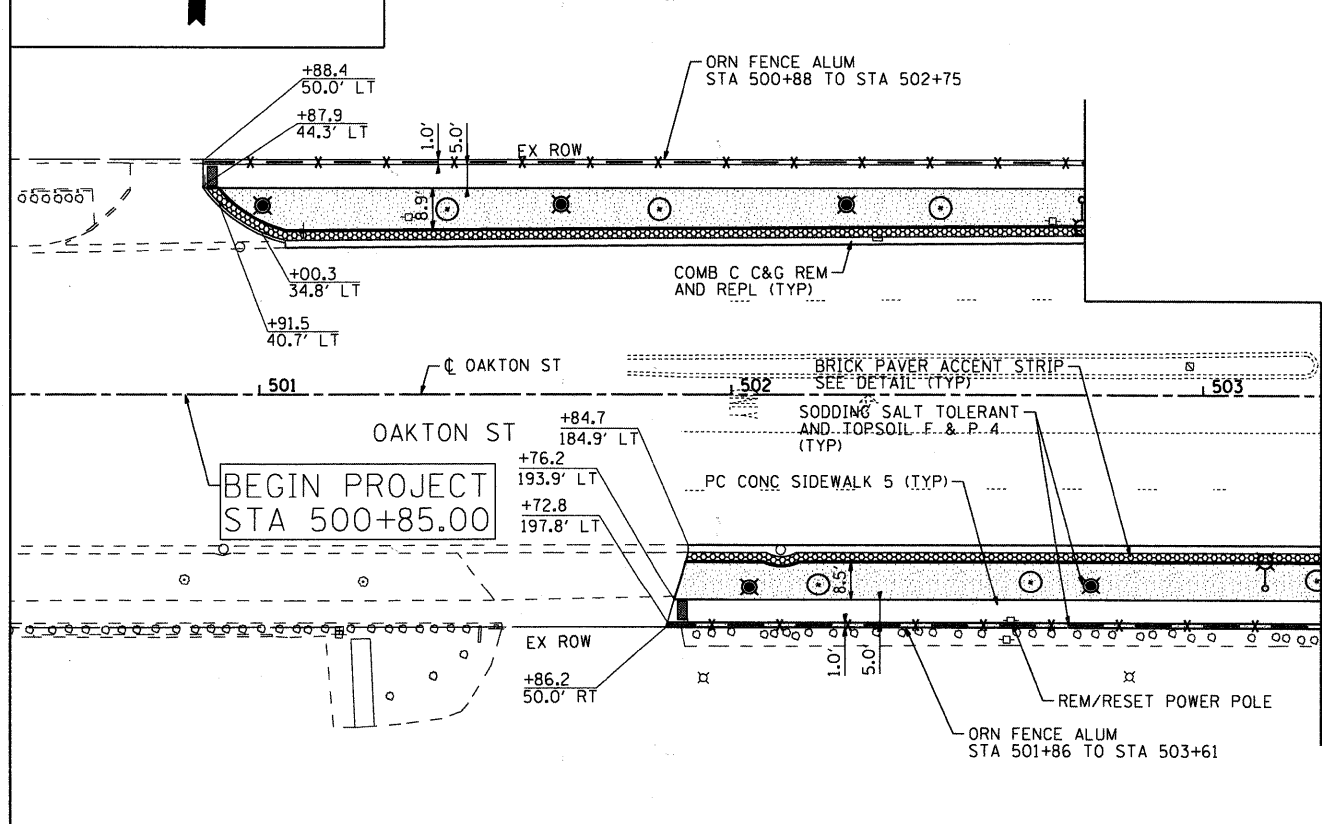


LEGEND:



- COMB CONC CURB & GUTTER REM AND REPL
- TREE REMOVAL (WITH SIZE)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- EXISTING LIGHT POLE
- PAINT EX LIGHT POLE UNIT
- FRAMES AND LIDS TO BE ADJUSTED
- ORNAMENTAL FENCE, ALUMINIUM
- PROPOSED PEDESTRIAN LIGHT
- PROPOSED STREET LIGHT
- ARISTOCRAT PEAR-PYRUS (CRYANA ARISTOCRAT)
- SKYLINE HONEYLOCUST (GLEDITSIA TRIACANTHOS INERMAS 'SKYLINE')
- PROPOSED PAVER ACCENT STRIP OR PLAZA AREA (SEE DETAIL)
- PROPOSED TOPSOIL FURNISH AND PLACE, 4" AND SODDING
- CURB RAMP WITH DETECTABLE WARNINGS

- NOTES:**
1. ALL EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED.
 2. PROPOSED TREES TO BE PLACED AT 45' SPACING AS DETERMINED BY THE ENGINEER. APPROXIMATE LOCATIONS SHOWN.
 3. ALL SLOPES FOR DRIVEWAYS ASSUME SIDEWALK IS PLACED AT 2% OR FLATTER CROSS SLOPE.



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 CLIENT: STATE OF ILLINOIS
 FILE NAME: 10-00111-00-LS
 PLOT DRIVER: standard-frames.tlv
 PEN TABLE:



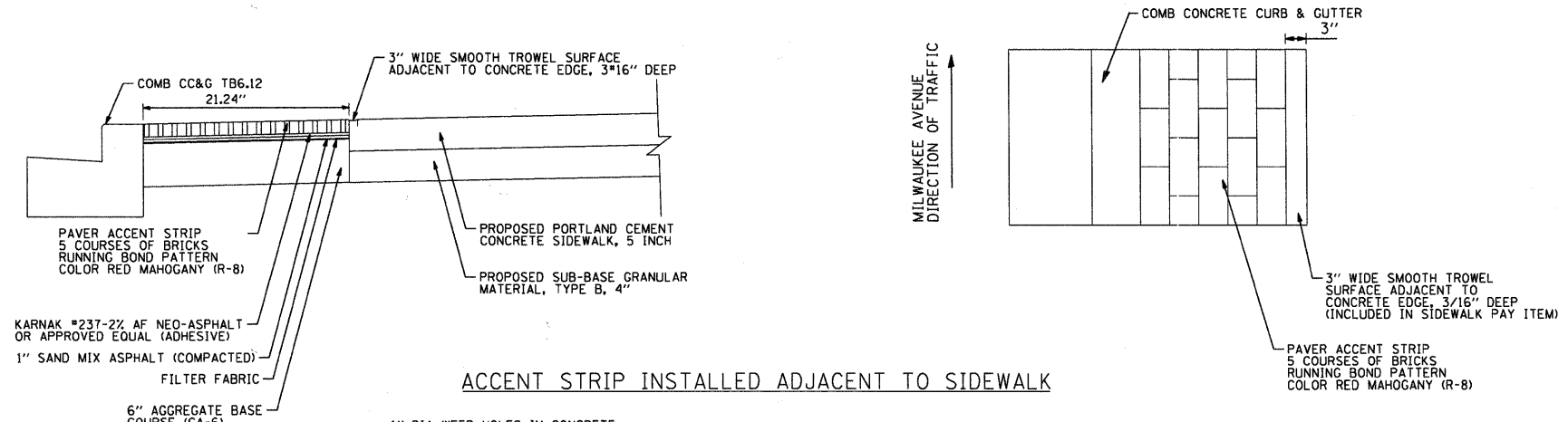
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PLOT SCALE = 1"=20'	DRAWN - CMH	REVISED -
PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

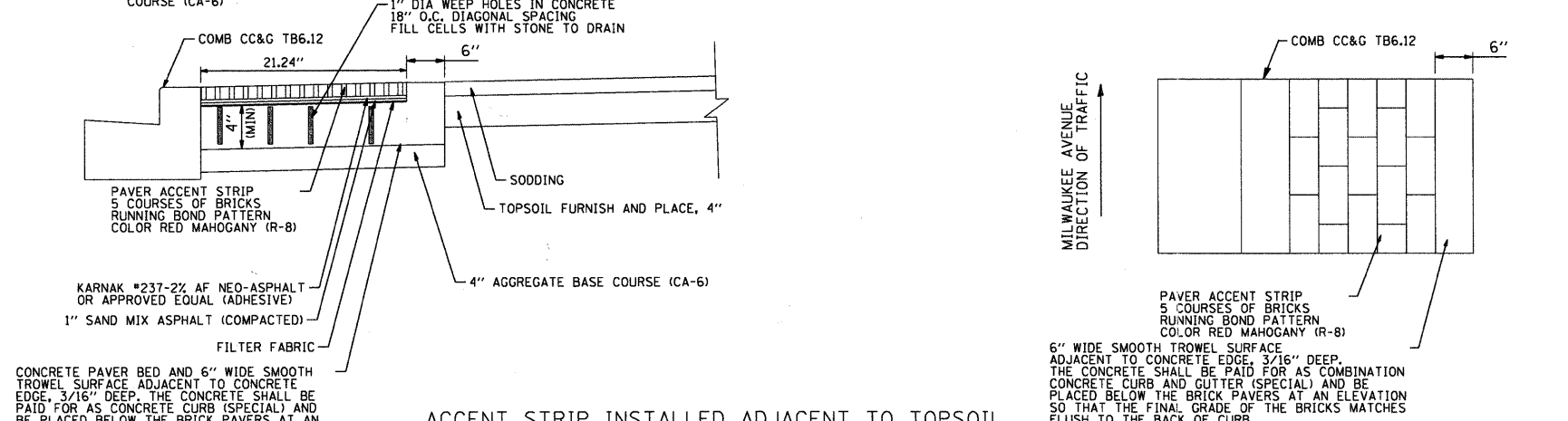
**MILWAUKEE AVENUE
STREETSCAPE AND LANDSCAPE PLAN**

F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 23
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		CONTRACT NO. 63622

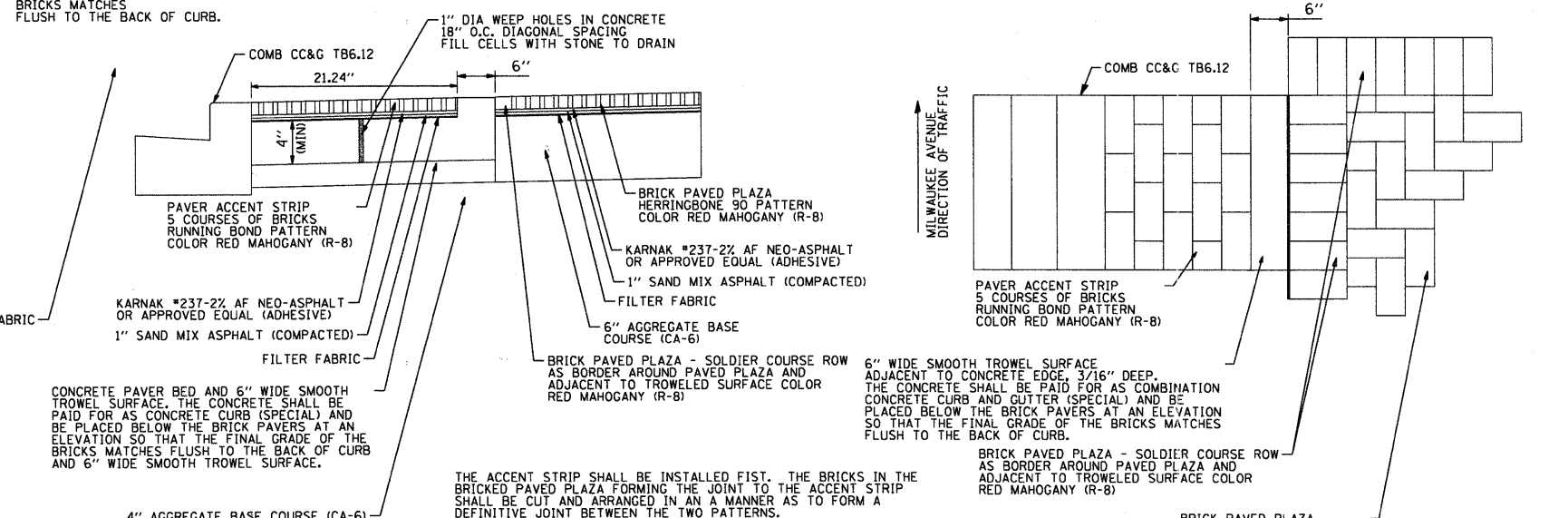
SCALE: 1"=20' SHEET NO. 14 OF 14 SHEETS STA. TO STA.



ACCENT STRIP INSTALLED ADJACENT TO SIDEWALK



ACCENT STRIP INSTALLED ADJACENT TO TOPSOIL

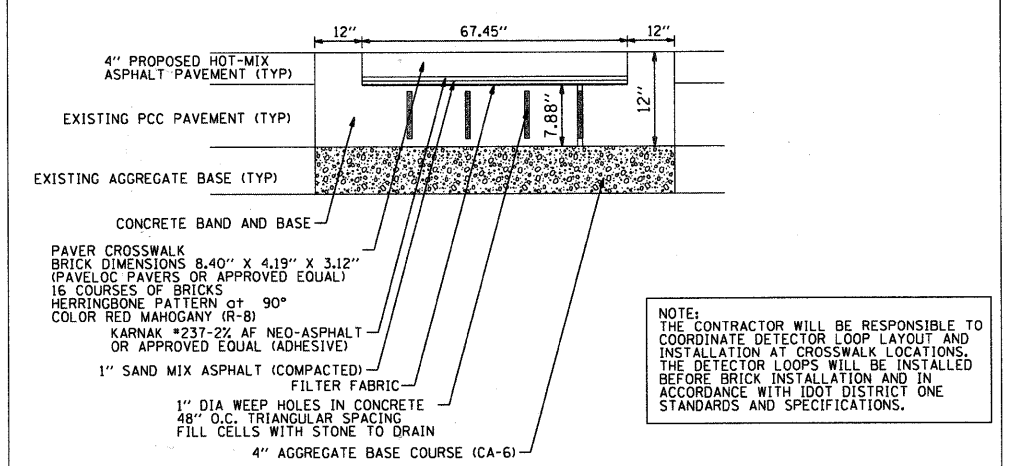
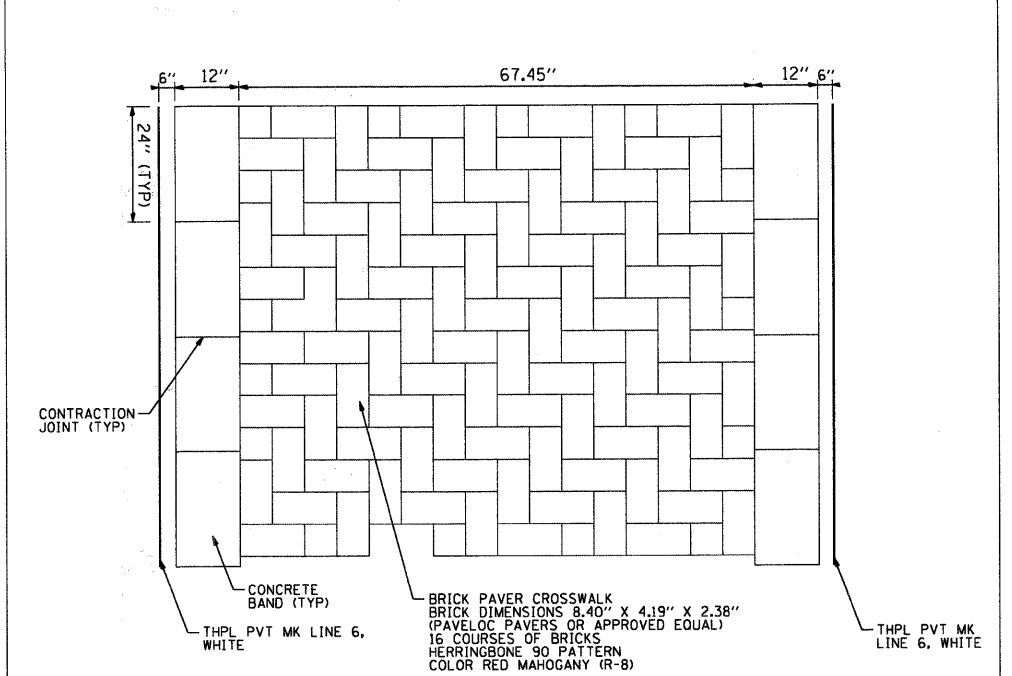
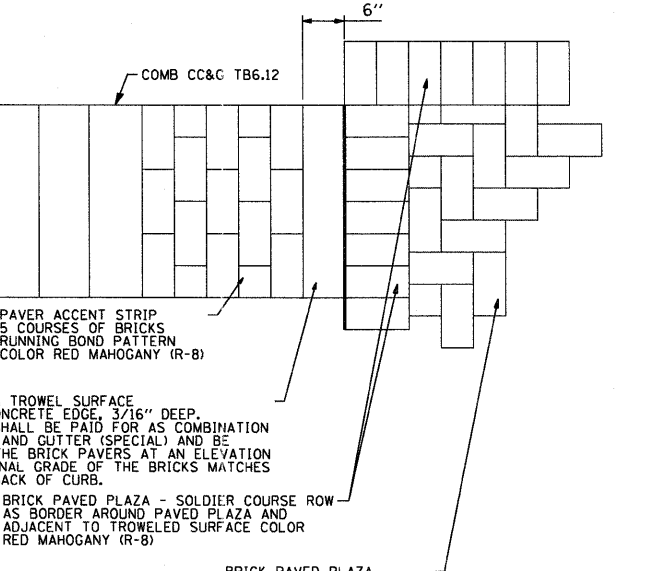
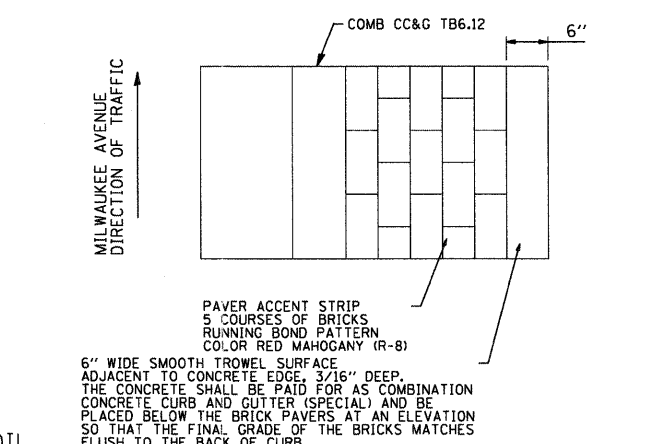
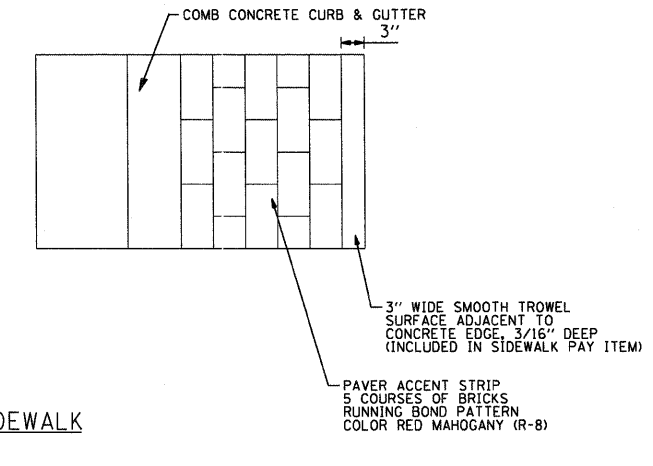


ACCENT STRIP AND BRICK PAVED PLAZA INSTALLATION

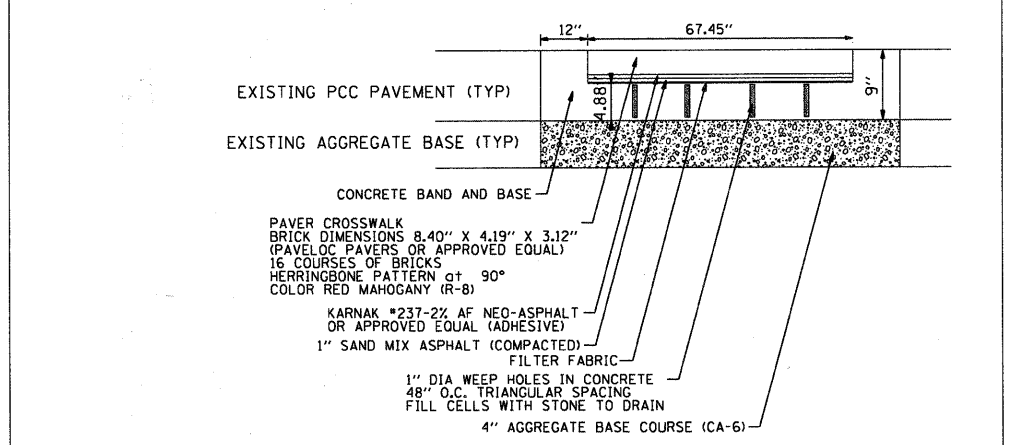
INSTALLATION NOTES

1. BRICK DIMENSIONS 8.40" X 4.19" X 2.38" (PAVELOC PAVERS OR APPROVED EQUAL)
2. PAVERS SHALL BE INSTALLED ON TOP OF THE SAND MIX/NEO-ASPHALT OR APPROVED EQUAL (ADHESIVE), INSTALLING ALL FULL STONES POSSIBLE FIRST. SMALL CUT PIECES WILL THEN BE INSTALLED.
3. CONTRACTOR SHALL COMPACT PAVING STONES INTO THE SAND MIX/NEO-ASPHALT (ADHESIVE) COURSE WITH A MECHANICAL PLATE COMPACTOR WITH A FORCE OF 2500-3500 LBS.
4. POLYMERIC SAND IS THEN SWEEPED INTO THE JOINTS AND VIBRATED UNTIL THE JOINT ARE FULL.
5. THE PAVERS SHALL BE PLACED ACCORDING TO MANUFACTURER SPECIFICATIONS AND INTERLOCKING CONCRETE PAVEMENT INSTITUTE SPECIFICATIONS.

BRICK PAVER ACCENT STRIP AND BRICK PAVED PLAZA
N.T.S.



FOR EXISTING COMPOSITE PAVEMENT



FOR EXISTING CONCRETE PAVEMENT

BRICK PAVER CROSSWALK
N.T.S.

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
CLIENT: HRGreen
DATE PLOTTED: 7/20/2011 4:17:05 PM
FILE NAME: 86100065-00e1-01.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl



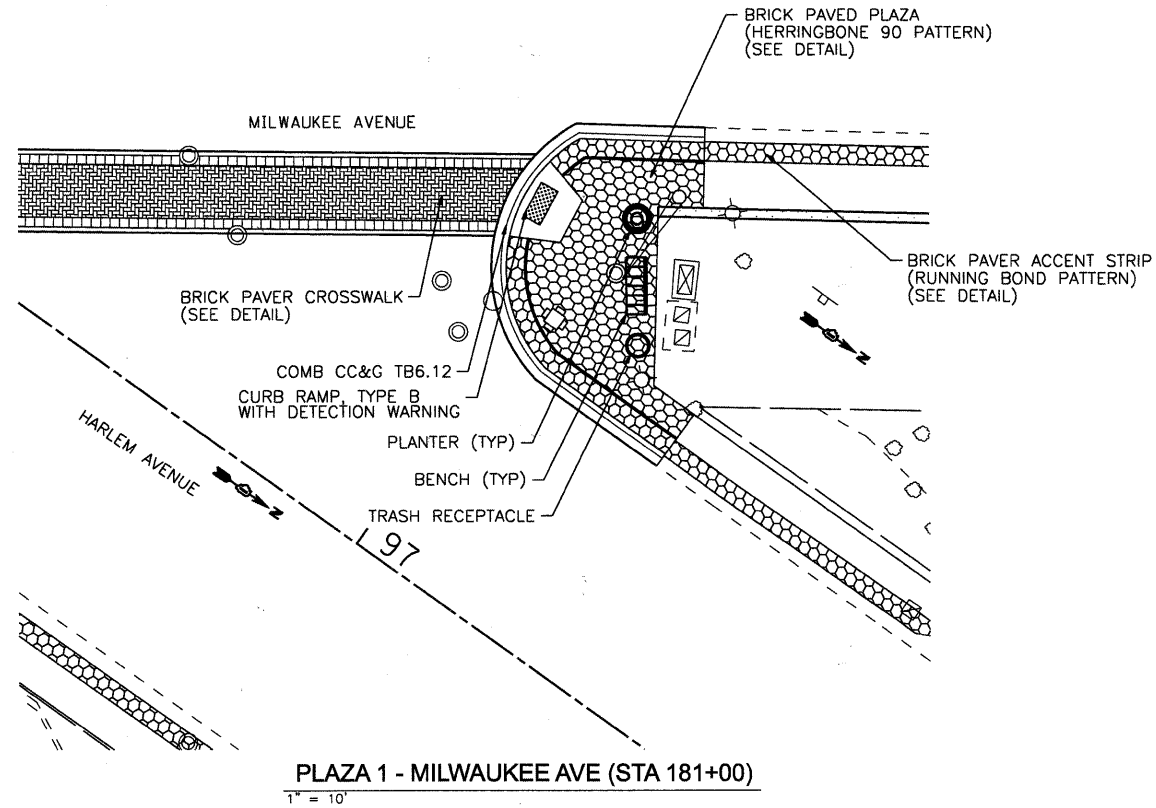
USER NAME = Charlotte	DESIGNED - PS	REVISED -
PLOT SCALE = NTS	DRAWN - CMH	REVISED -
PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MILWAUKEE AVENUE
LANDSCAPE DETAILS

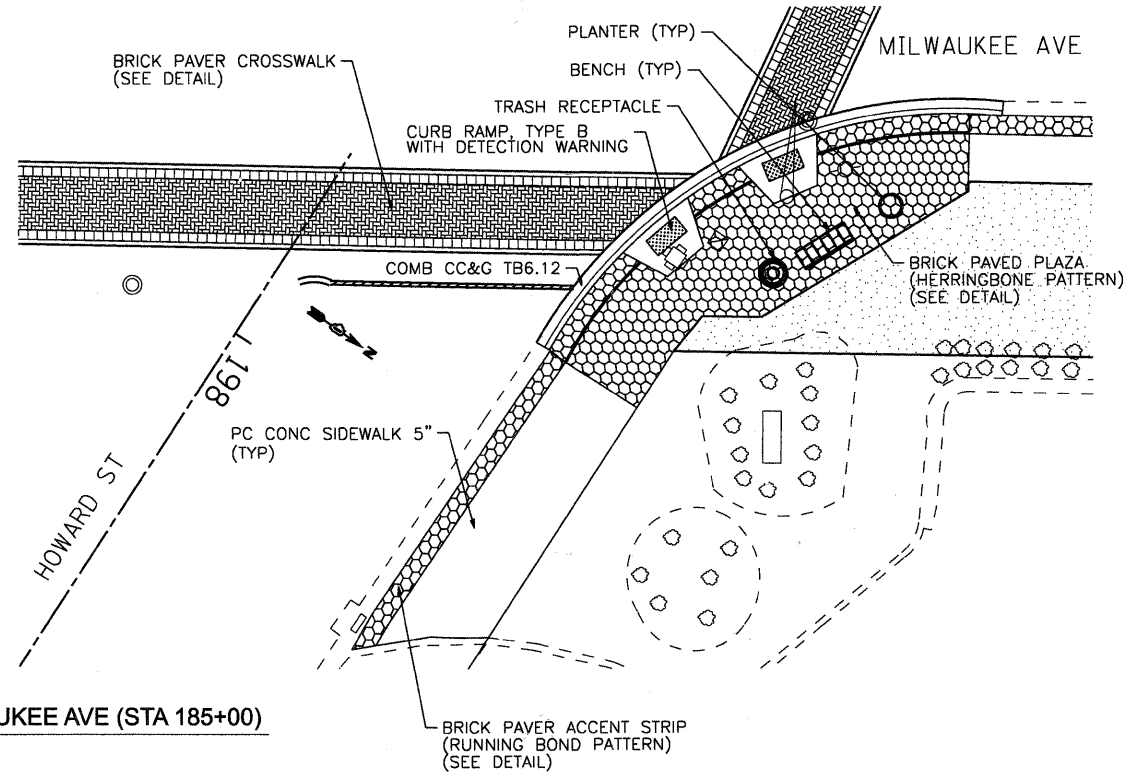
F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 24
FED. ROAD DIST. NO. ILLINOIS		CONTRACT NO. 63622		

SCALE: NTS SHEET NO. 1 OF 6 SHEETS STA. TO STA.



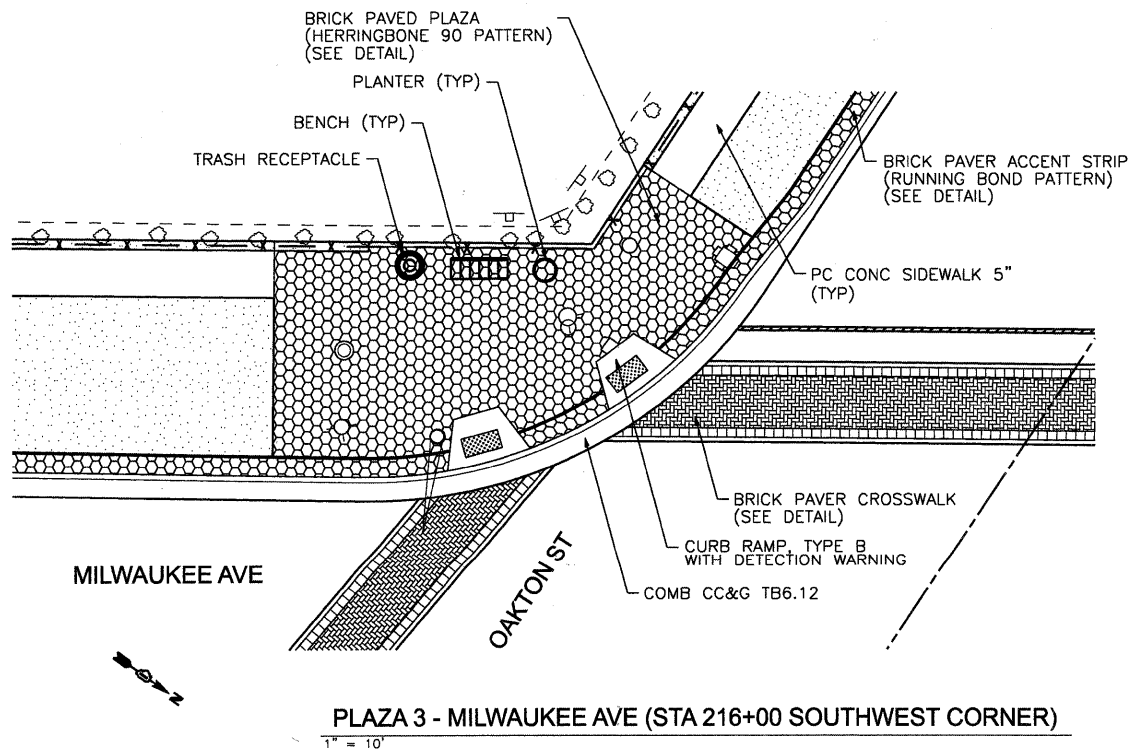
PLAZA 1 - MILWAUKEE AVE (STA 181+00)

1" = 10'



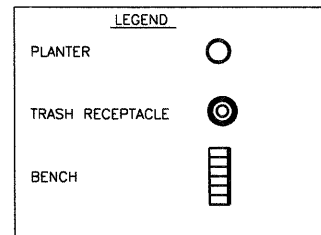
PLAZA 2 - MILWAUKEE AVE (STA 185+00)

1" = 10'



PLAZA 3 - MILWAUKEE AVE (STA 216+00 SOUTHWEST CORNER)

1" = 10'



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: Illinois Professional Design Firm
 DATE PLOTTED: 7/20/2011 4:17:17 PM
 FILE NAME: 86100065-lsp01-02.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: standard-trans.tbl



USER NAME = Chterke
 PLOT SCALE = NTS
 PLOT DATE = 7/20/2011

DESIGNED - PS
 DRAWN - CMH
 CHECKED - JLP
 DATE -

REVISED -
 REVISED -
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 REVISED -

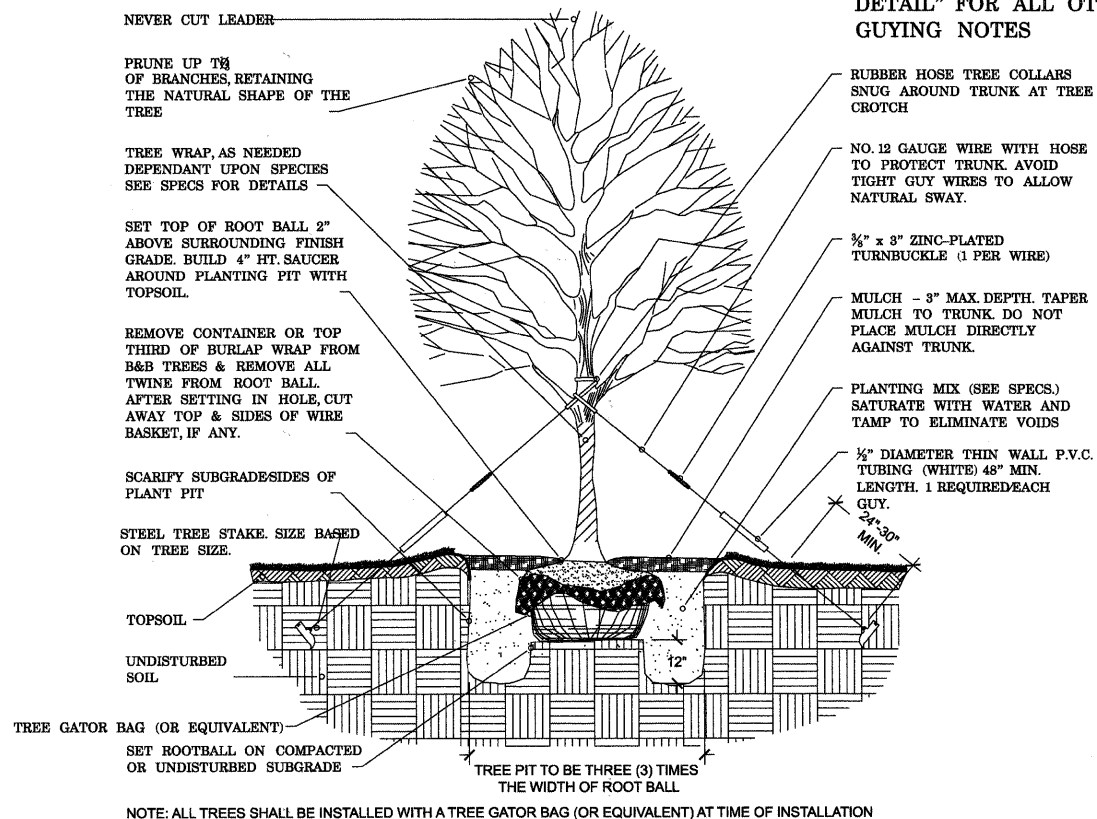
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MILWAUKEE AVENUE
 LANDSCAPE DETAILS

SCALE: NTS SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	25
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63622	

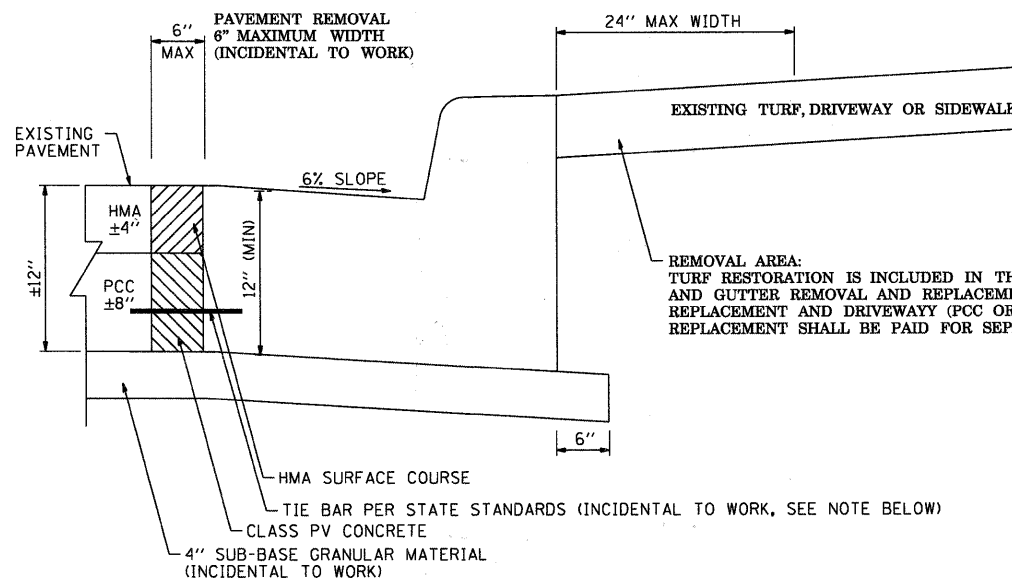
***REFER TO "TREE GUYING
DETAIL" FOR ALL OTHER
GUYING NOTES**



NOTE: ALL TREES SHALL BE INSTALLED WITH A TREE GATOR BAG (OR EQUIVALENT) AT TIME OF INSTALLATION

TREE PLANTING DETAIL

NOT TO SCALE



REMOVAL AREA:
TURF RESTORATION IS INCLUDED IN THE COST OF COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT. SIDEWALK REMOVAL AND REPLACEMENT AND DRIVEWAY (PCC OR HMA) REMOVAL AND REPLACEMENT SHALL BE PAID FOR SEPARATELY.

NOTE:

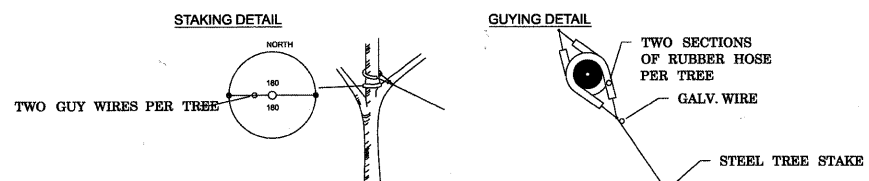
REMOVAL OF THE EXISTING PAVEMENT WILL BE REQUIRED IN ORDER TO INSTALL A FULL FRONT FACE FORM. STEEL ANGLE PIECES WILL NOT BE ALLOWED FOR FORMING. THE AREA BETWEEN THE EDGE OF THE EXISTING PAVEMENT AND THE FACE OF THE NEW GUTTER SHALL BE CLEANED OF ALL LOOSE MATERIAL AND FILLED WITH CLASS PV CONCRETE TO A 6 INCH (6") WIDTH.

THE 6" PCC WEDGE AT THE GUTTER FACE SHALL BE STRUCK OFF, CONSOLIDATED WITH A HAND VIBRATOR, AND FINISHED TO A TRUE AND EVEN SURFACE WITH FLOATS AND TROWELS. THE EDGES OF THE PCC WEDGE SHALL BE EDGED PARALLEL TO THE CURB FACE WITH AN EDGING TOOL HAVING A 1/4 IN. RADIUS EXTENDING TO A MAXIMUM DEPTH OF 1/4 IN.

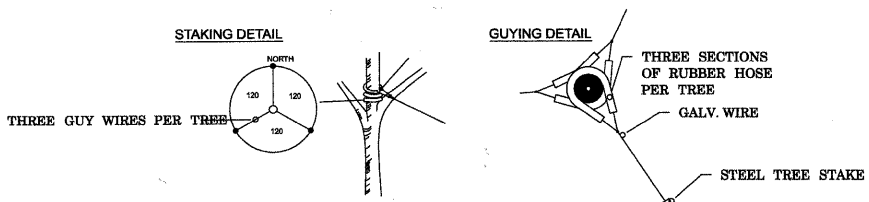
THE FINAL FINISH SHALL BE DONE WITH A WOODEN FLOAT, LEAVING AN EVEN SURFACE. AFTER THE WATER SHEEN HAS DISAPPEARED, THE SURFACE SHALL BE GIVEN A FINAL FINISH BY BRUSHING.

IF THE CONDITION OF THE EXISTING PAVEMENT TO REMAIN IS DETERIORATED TO THE EXTENT THAT DRILLING FOR INSTALLATION OF DOWEL BARS IS NOT FEASIBLE, THEN DOWEL BARS MAY BE OMITTED FOR THAT LOCATION.

COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT



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



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

TREE STAKING DETAIL

NOT TO SCALE

COMPANY NAME: HRGreen.com
PROJECT CONTACT: Illinois Professional Design Firm #184-001322
DATE PLOTTED: 7/20/2011 4:17:30 PM
FILE NAME: 86100065-1a0d01-04.dgn
PLOT DRIVER: pldrvr
PEN TABLE: standard-trans.tbl



USER NAME = Charke	DESIGNED - PS	REVISED -
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PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

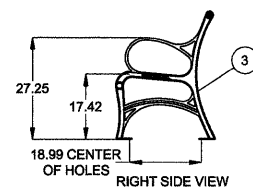
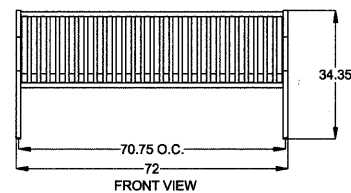
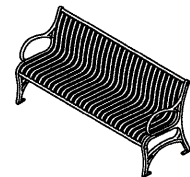
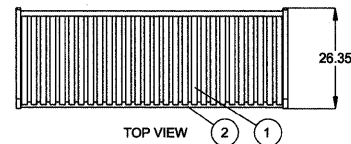
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MILWAUKEE AVENUE
LANDSCAPE DETAILS**

SCALE: NTS SHEET NO. 4 OF 6 SHEETS STA. TO STA.

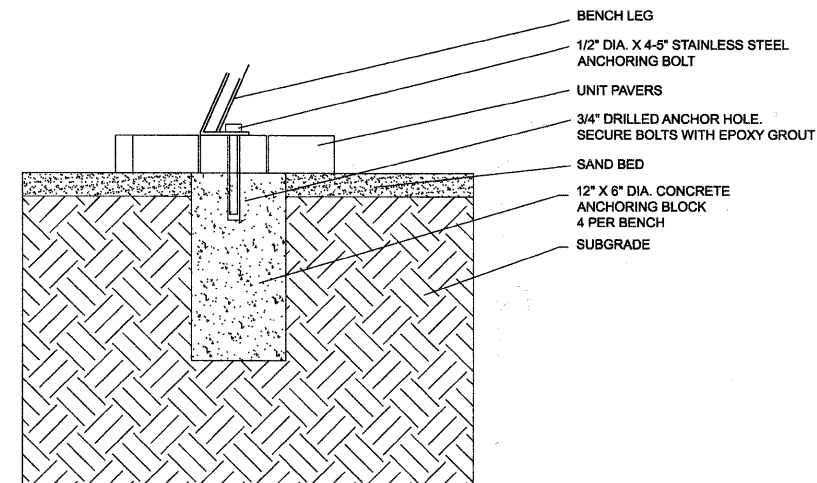
F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 26
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

CONTRACT NO. 63622

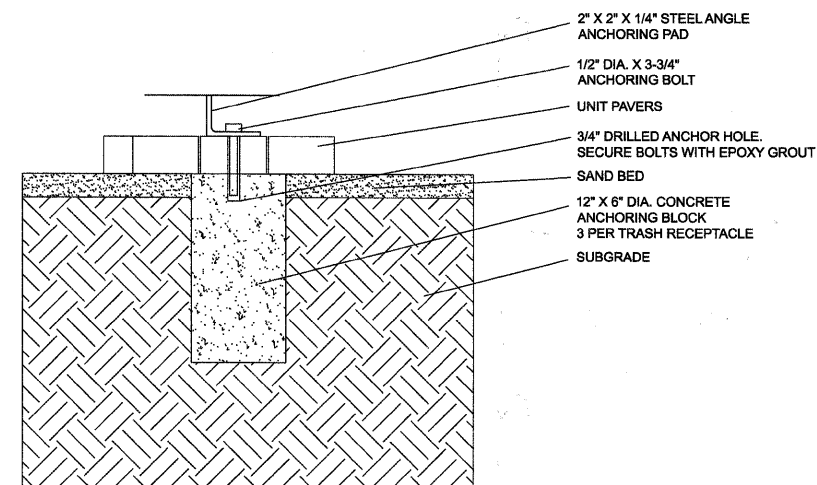


TYPICAL BENCH DETAIL

SCALE: N.T.S.



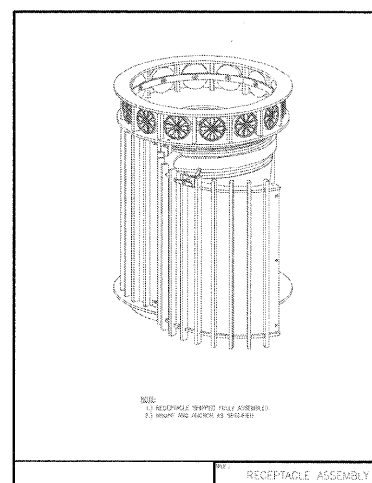
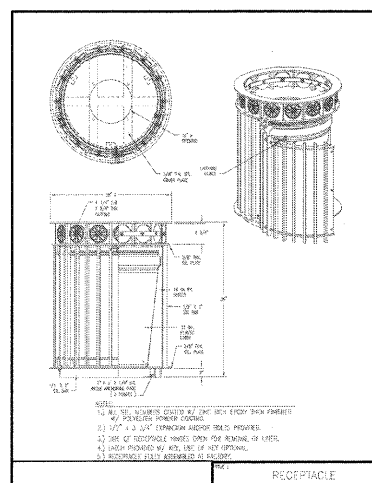
MANUFACTURER: SITESCAPES OR APPROVED EQUAL
 PRODUCT: Cityview Cast End Backed Bench CV1-1010DF OR APPROVED EQUAL
 COLOR: Onyx
 LENGTH: 6'-0"
 FINISH: Duracoat
 MATERIAL LIST:
 1. Seat straps - 5/16" x 1 1/2" steel flat bar.
 2. Support pipes - Ø 1.315" x .133" steel pipe.
 3. End units - 1 1/4" cast iron with 9/16" mounting holes.
 4. Mounted with four Ø 1/2" x 4-5" stainless steel anchor bolts (customer supplied).



MANUFACTURER: DuMor, Inc. OR APPROVED EQUAL
 PRODUCT: Receptacle 102-32SH-FTO OR APPROVED EQUAL
 COLOR: Black
 SIZE: 32 Gallon
 FINISH: Powder Coat

BENCH ANCHOR DETAIL

SCALE: N.T.S.



TYPICAL TRASH RECEPTACLE DETAIL

SCALE: N.T.S.

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 7/20/2011 4:17:49 PM
 FILE NAME: 86100065-isp001-05.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl



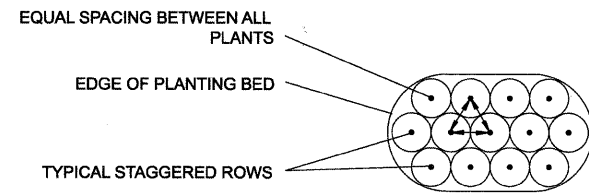
USER NAME = Char-ke	DESIGNED - PS	REVISED -
PLOT SCALE = NTS	DRAWN - CMH	REVISED -
PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MILWAUKEE AVENUE
 LANDSCAPE DETAILS**

SCALE: NTS SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	27
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO.	63622



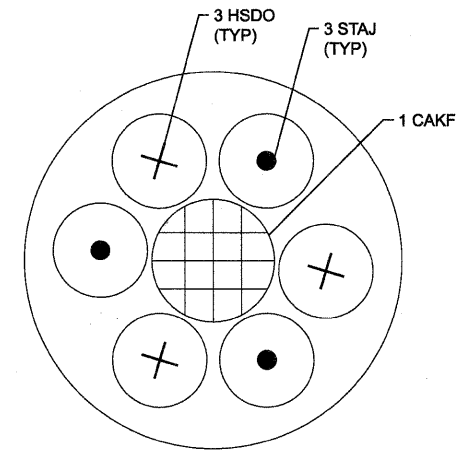
TYPICAL PLANTING BED PLAN

SCALE: N.T.S.

PLANT LIST

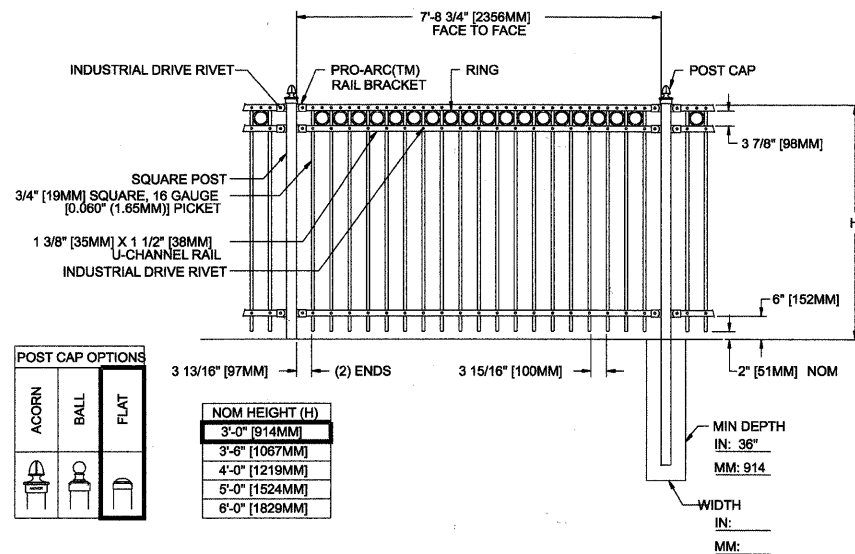
KEY	COMMON NAME	BOTANICAL NAME
CAKF	Feather Reed Grass	Calamagrostis acutiflora 'Karl Foerster'
STAJ	Sedum-Autumn Joy	Sedum telephium 'Autumn Joy'
HSDO	Daylily	Hemerocallis 'Stella de Oro'

NOTE:
FURNISHING AND INSTALLING PLANTS IN PLANT BED IS INCLUDED IN THE COST OF PLANTER



TYPICAL PLANTER DETAIL - PLAN VIEW

SCALE: N.T.S.



**ORNAMENTAL FENCE, ALUMINUM
TYPICAL DETAIL**

SCALE: N.T.S.

MANUFACTURER: MASTER HALCO OR APPROVED EQUAL

PRODUCT: I COLONIAL ALUMINUM
Nom 8" Section Length - 3/4" PLUS
OR APPROVED EQUAL

COLOR: Black

HEIGHT: 3'-0"

POST: Flat

MATERIAL: ALUMINUM

FINISH: Powder Coat

- NOTES:
- Metric dimensions are nominal equivalents to U.S. dimensions.
 - Footing width to be (4)x post width.
 - See panel & post selection sheet for available post sizes.
 - For installation on concrete see post detail.



MANUFACTURER: Custom Design Precast
OR APPROVED EQUAL

PRODUCT: CDP3046 OR APPROVED EQUAL

COLOR: Autumn Brown

SIZE: 36" Dia. x 24" H

FINISH: NaturaStone

TYPICAL PLANTER DETAIL - PROFILE VIEW

SCALE: N.T.S.

COMPANY NAME: HRGreen
PROJECT CONTACT: HRGreen
CLIENT: HRGreen
DATE PLOTTED: 7/20/2011 4:17:56 PM
FILE NAME: 86100065-1sp-dt-06.dgn
PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl



USER NAME = Chertke	DESIGNED - PS	REVISED -
PLOT SCALE = NTS	DRAWN - CMH	REVISED -
PLOT DATE = 7/20/2011	CHECKED - JLP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MILWAUKEE AVENUE
LANDSCAPE DETAILS**

SCALE: NTS SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	28
CONTRACT NO. 63622			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

1. THIS PROJECT INCLUDES THE INSTALLATION OF PEDESTRIAN LIGHTING ALONG MILWAUKEE AVE BETWEEN HOWARD ST. AND HARLEM AVE. INCLUDING PEDESTRIAN LIGHTING ALONG HOWARD ST AND HARLEM AVE. AT THE INTERSECTION WITH MILWAUKEE. PEDESTRIAN LIGHTING SHALL ALSO BE INSTALLED AT THE INTERSECTION OF MILWAUKEE AVE. AND OAKTON ST.
2. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK.
3. THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER'S REVIEW WITHIN 30 DAYS AFTER CONTRACT EXECUTION, EIGHT COPIES OF APPROVED MANUFACTURER'S PRODUCT DATA AND DETAILED SHOP DRAWINGS TO THE RESIDENT ENGINEER.
4. TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRE. NOTE THAT THE LIGHT POLES WILL NOT BE PAID FOR UNTIL THE POLES ARE FULLY APPROVED AND THE LUMINAIRES ARE INSTALLED.
5. THE QUANTITIES OF RACEWAY WHERE INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
6. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
7. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF NILES TO LOCATED AND MARK/STAKE ALL VILLAGE OWNED UNDERGROUND UTILITIES.
8. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
9. WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRENCH AND BACKFILL FOR ELECTRICAL WORK.
10. THE CONTRACTOR SHALL COORDINATE THE FOUNDATION HEIGHTS WITH THE FINISHED SIDEWALK ELEVATION SO FOUNDATION DOES NOT PROTRUDE BEYOND SPECIFIED REQUIREMENTS.
11. AT THE COMPLETION OF THE PROJECT THE LIGHTING SYSTEMS SHALL BE OWNED AND MAINTAINED BY THE VILLAGE OF NILES.
12. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
13. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
14. THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF FULL SIZED COMPLETE AND ACCURATE "RECORD DRAWINGS" TO THE ENGINEER FOR REVIEW AND COMMENT, AS SPECIFIED. THE "RECORD DRAWINGS" SHALL BE UPDATED ON A REGULAR BASIS AND DEPICT ALL ROADWAY LIGHTING MATERIAL INSTALLATIONS WITH ANY CHANGES INDICATED IN RED. "REPRODUCIBLE RECORD DRAWINGS" SHALL BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION.
15. PROPOSED PEDESTRIAN LIGHTING UNITS SHALL BE SET AT THE BACK OF PROPOSED SIDEWALK.
16. CONTRACTOR SHALL TAKE CARE INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DIRECTED BY THE ENGINEER.
17. CONTRACTOR SHALL TAKE CARE INSTALLING LIGHT POLE FOUNDATIONS TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. SOME POLE LOCATIONS WHICH WILL REQUIRE OFFSET FOUNDATIONS HAVE BEEN INDICATED ON THE PLANS. THE ENGINEER SHALL DETERMINE IF ADDITIONAL LOCATIONS ARE REQUIRED.
18. ALL UNIT DUCT SHALL BE INSTALLED USING THE BORED AND PULLED METHOD. THE COST SHALL BE INCLUDED WITH PAY ITEM UNIT DUCT, 600V, 3 1/C NO. 6 AND 1/C NO. 8 GROUND (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE
19. THE CONTRACTOR SHALL CHISEL ARROWS LOCATING ALL CONDUIT CROSSINGS ACROSS ROADWAYS. THE CHISEL MARKS SHALL BE ON THE CURB.
20. GROUND RODS SHALL BE FURNISHED AND INSTALLED AS REQUIRED PER PLAN FOR EACH LIGHTING UNIT. THE COST SHALL BE INCLUDED WITH PAY ITEMS LIGHT POLE FOUNDATION 24" DIAMETER AND LIGHT POLE FOUNDATION 24" DIAMETER, OFFSET. GROUND RODS SHALL BE FURNISHED AND INSTALLED AS REQUIRED PER PLAN FOR EACH LIGHTING CONTROLLER. THE COST SHALL BE INCLUDED WITH PAY ITEM LIGHTING CONTROLLER.
21. RESTORATION OF PARKWAY AND PROJECT SITE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND CONTRACT DOCUMENTS.

THE EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION OF THE PROPOSED PEDESTRIAN LIGHTING.











LIGHTING BILL OF MATERIALS

SUMMARY OF QUANTITIES - ROADWAY LIGHTING IMPROVEMENT

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	2
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	100
81018900	CONDUIT PUSHED, 4" DIA. GALVANIZED STEEL	FOOT	560
81603050	UNIT DUCT, 600V, 3-1/C NO. 6, 1/C NO. 8 GROUND (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	3745
81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C #1/0	FOOT	336
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	100
* 82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	9
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240 VOLT, 100 AMP	EACH	2
83007500	LIGHT POLE, ALUMINUM, 35 FT. H.H., 12 FT. MAST ARM	EACH	9
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	288
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	2
* X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	48
* X8360215	LIGHT POLE FOUNDATION 24" DIAMETER, OFFSET	FOOT	18
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6

* REQUIRES SPECIAL PROVISIONS

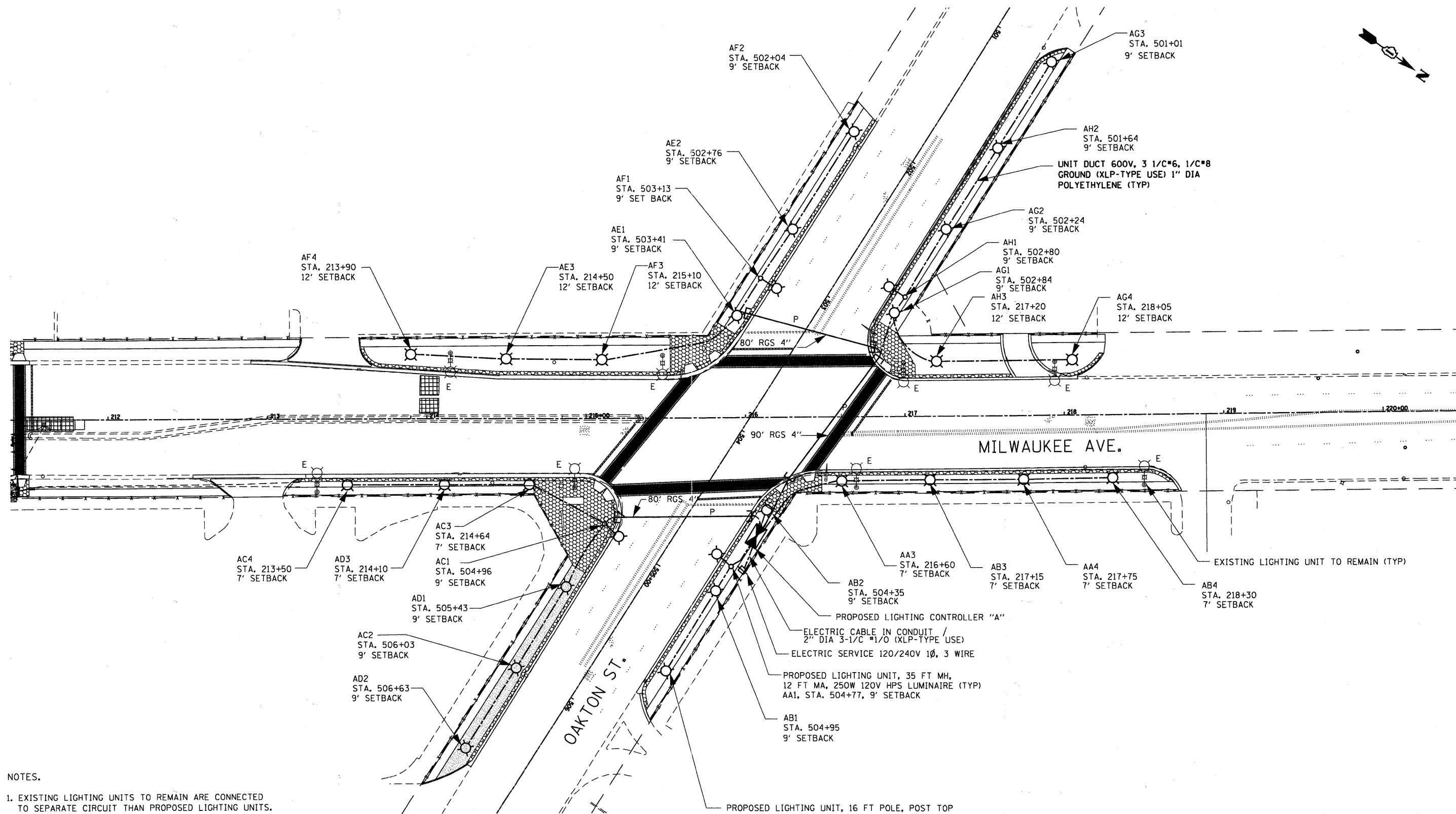
LEGEND

-  PROPOSED LIGHTING UNIT: 35FT MH, 12FT MA, 250W, 120V HPS LUMINAIRE
-  EXISTING LIGHTING UNIT TO REMAIN
-  UNIT DUCT, 600V, 3-1/C # 6, 1/C #8 GROUND (XLP-TYPE USE) 1" DIA. POLYETHYLENE
-  ELECTRIC SERVICE POLE
-  PROPOSED LIGHTING CONTROLLER
-  RIGID GALVANIZED STEEL CONDUIT PUSHED AS INDICATED
-  RIGID GALVANIZED STEEL CONDUIT IN TRENCH AS INDICATED
-  GROUND ROD
-  ELECTRIC CABLE IN CONDUIT, 3-1/C NO. 1/0
-  PROPOSED ORNAMENTAL LIGHTING UNIT: ALUMINUM POST WITH CAST ALUMINUM BASE 16 FT HEIGHT POST TOP MOUNTED LUMINAIRE 50 WATT HPS, 120V

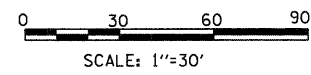
LTC-01

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 CONSULTING ENGINEERS
 1341 Warren Ave. S.E.
 Downers Grove, IL 60515
 (630) 717-1997 or (708) 470-2631
 www.amesengineering.com

FILE NAME =	USER NAME = #USER#	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	VILLAGE OF NILES LIGHTING IMPROVEMENTS GENERAL NOTES, LEGEND AND SUMMARY OF QUANTITIES	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = #DATE#	CHECKED - MSA	REVISED -			CONTRACT NO. 62622					
		DATE - 06-17-11	REVISED -			ILLINOIS FED. AID PROJECT					



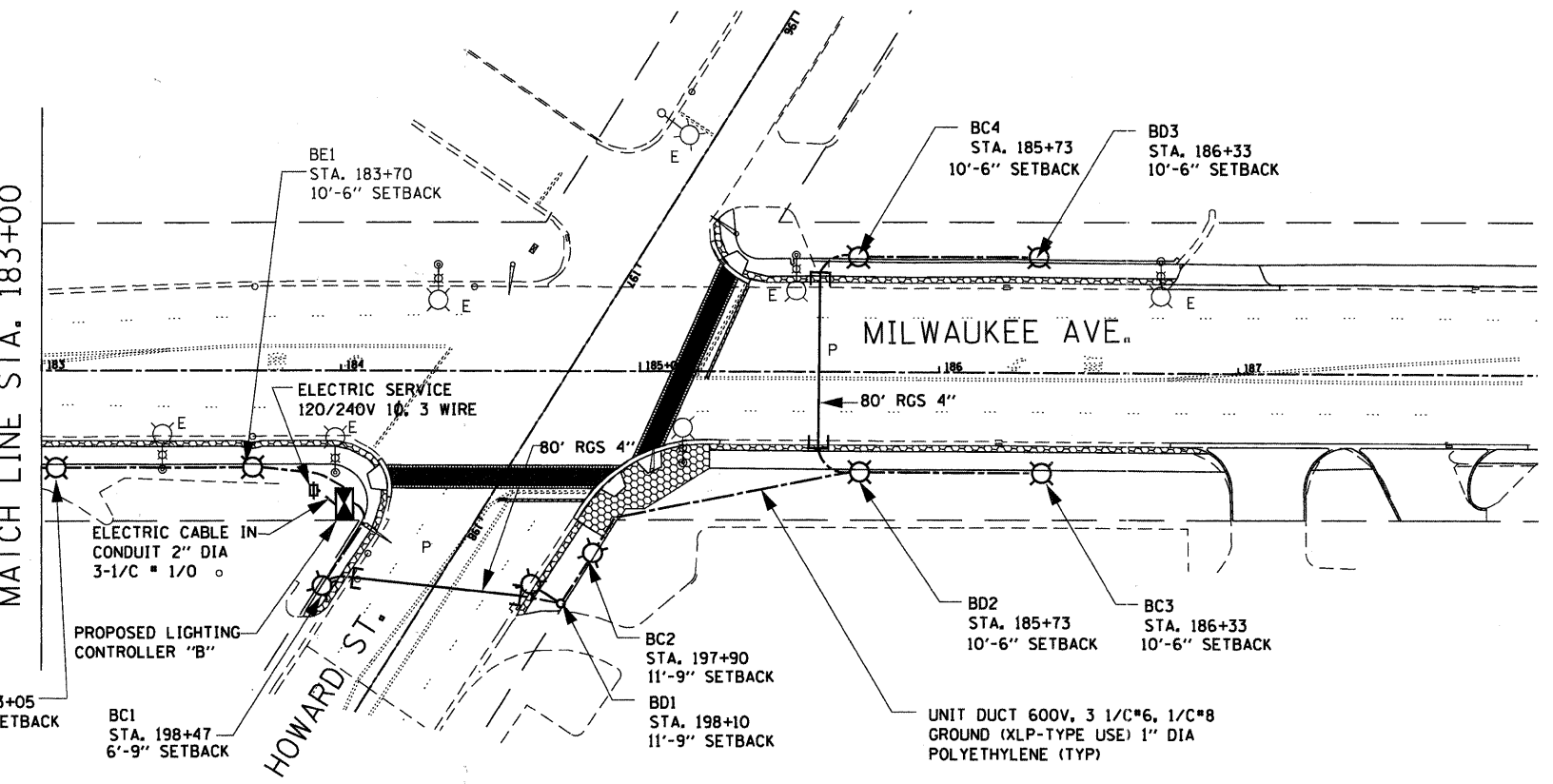
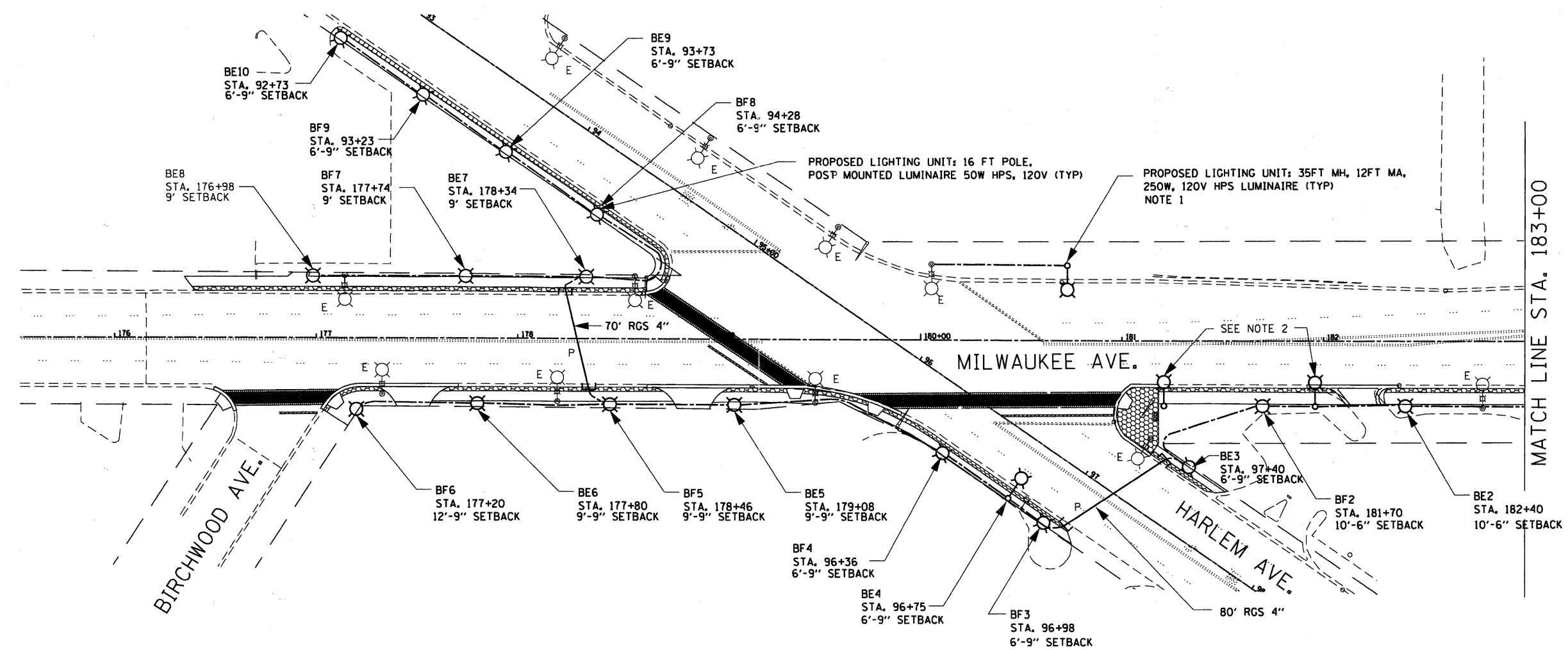
- NOTES.
- EXISTING LIGHTING UNITS TO REMAIN ARE CONNECTED TO SEPARATE CIRCUIT THAN PROPOSED LIGHTING UNITS.
 - PROPOSED PEDESTRIAN LIGHTING UNITS SHALL BE LOCATED IN PARKWAY BETWEEN DECORATIVE BANDING AND SIDEWALK.
 - SETBACKS SHOWN ARE MEASURED FROM EDGE OF PAVEMENT TO CENTER OF POLE/FOUNDATION.
 - UNIT DUCT SHALL BE BORED AND PULLED.



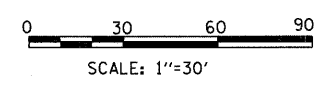
LTC-02

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 CONSULTING ENGINEERS
 1341 Warren Avenue
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 (630) 737-1987 (F) (630) 470-9891 (T)
 www.amesengineeringinc.com

FILE NAME =	USER NAME = #USER#	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	VILLAGE OF NILES LIGHTING IMPROVEMENTS LIGHTING PLAN - MILWAUKEE AVE. AT OAKTON STREET	F.A.P. RTE. 3513	SECTION 10-00-111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 30	
#FILE#		DRAWN - RV	REVISED -			SCALE: 1"=30'-0"	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 63622		ILLINOIS FED. AID PROJECT	
		CHECKED - MSA	REVISED -								
		DATE - 06-17-11	REVISED -								



- NOTES.
1. PROPOSED LIGHTING UNIT SHALL BE CONNECTED TO EXISTING LIGHTING SYSTEM ALONG HARLEM AVE.
 2. EXISTING LIGHTING UNIT SHALL BE REPLACED WITH NEW 35' MH POLE, 12' MA, 250W HPS MCIII LUMINAIRE. LIGHT POLE SHALL BE INSTALLED ON EXISTING FOUNDATION AND RECONNECTED TO EXISTING CIRCUIT.
 3. PROPOSED PEDESTRIAN LIGHTING UNITS SHALL BE SET BACK AT EDGE SIDEWALK.
 4. SETBACKS SHOWN ARE MEASURED FROM EDGE OF PAVEMENT TO CENTER OF POLE/FOUNDATION.
 5. UNIT DUCT SHALL BE BORED AND PULLED.



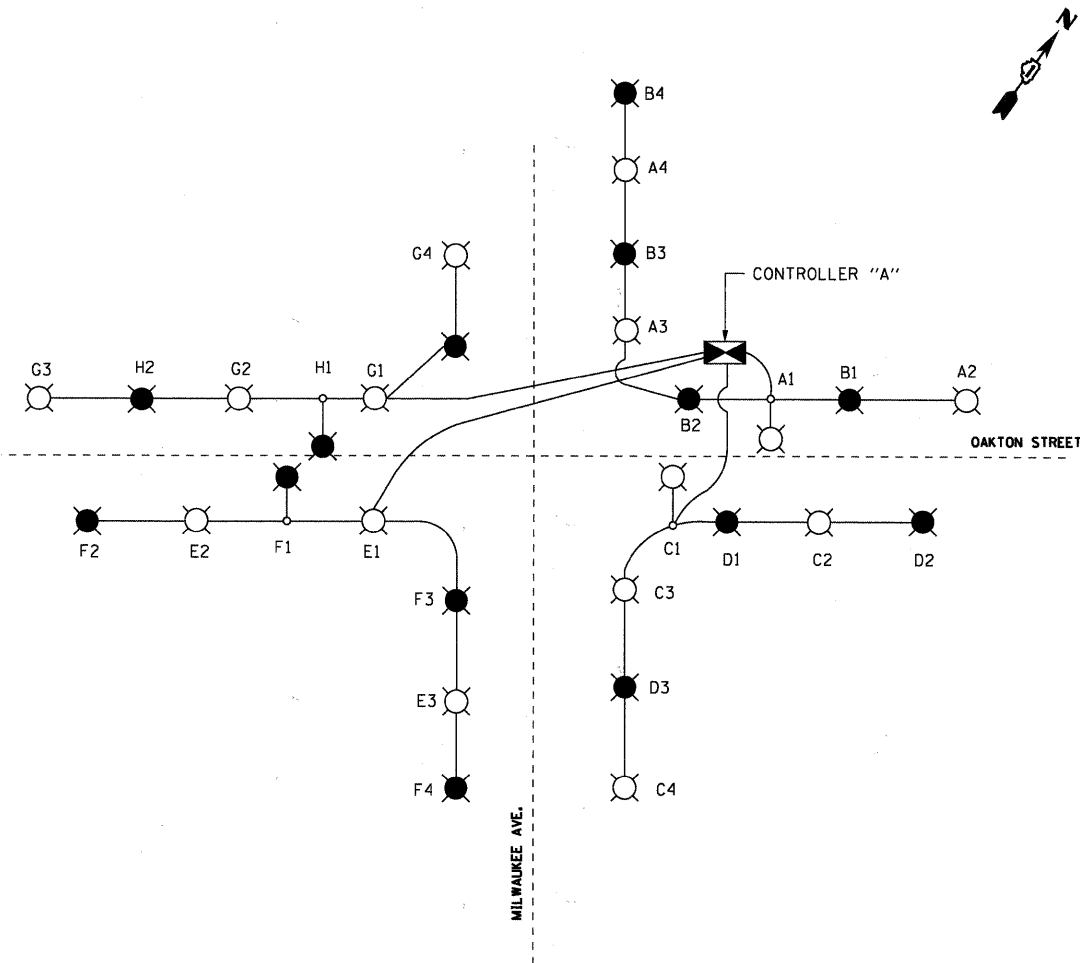
LTC-03

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 CONSULTING ENGINEERS
 1341 Warren Avenue
 Downers Grove, IL 60515
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 www.amesengineeringinc.com

FILE NAME =	USER NAME = #USER#	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	VILLAGE OF NILES LIGHTING IMPROVEMENTS LIGHTING PLAN MILWAUKEE AVE. AT OAKTON STREET	F.A.P. RTE. 3513	SECTION 10-00-111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 31
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	PLOT DATE = #DATE#	DATE - 06-17-11	REVISED -	CONTRACT NO. 63622 [ILLINOIS] FED. AID PROJECT						

CONTROLLER "A" @ OAKTON STREET

CIRCUIT	RED		BLACK		
	AMPS @ 120V	VA	CIRCUIT	AMPS @ 120V	VA
A	3.39	406.8	B	1.72	206.4
C	3.39	406.8	D	1.29	154.8
E	1.29	154.8	F	3.39	406.8
G	1.72	206.4	H	2.96	355.2
I	SPARE	SPARE	J	SPARE	SPARE
TOTAL	9.79	1174.8	TOTAL	9.36	1123.2
TOTAL LOAD 19.15A					

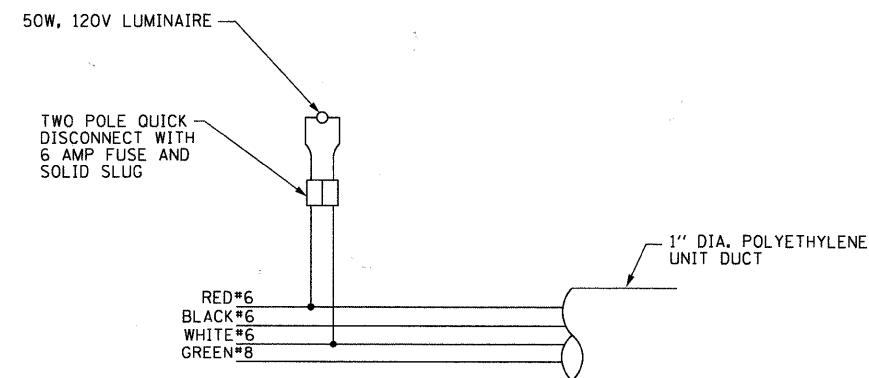


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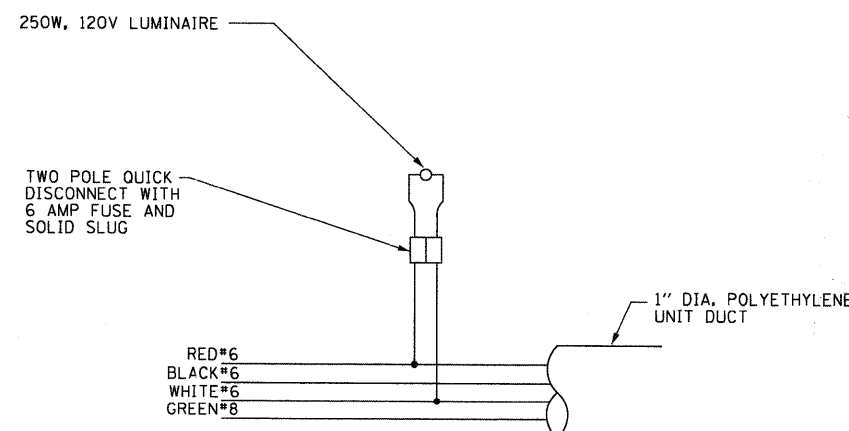
50W HPS, 120V LUMINAIRE: 0.43A/LUMINAIRE
 250W, 120V LUMINAIRE: 2.1A/LUMINAIRE

LEGEND

- LUMINAIRES, 250W, 120V WITH RED CIRCUIT
- LUMINAIRES, 250W, 120V WITH BLACK CIRCUIT
- PROPOSED LIGHTING CONTROLLER
- UNIT DUCT 3 1/2" x 6 1/2" #8 GROUND, 1" POLY.
- LUMINAIRES, 50W, 120V RED CIRCUIT
- LUMINAIRES, 50W, 120V BLACK CIRCUIT



SINGLE POLE WIRING



SINGLE POLE WIRING

NOTE:
 EXISTING LIGHTING AT INTERSECTION IS ON A SEPARATE CIRCUIT AND SHALL REMAIN (NOT AFFECTED BY PROPOSED WORK AND NOT SHOWN HERE).

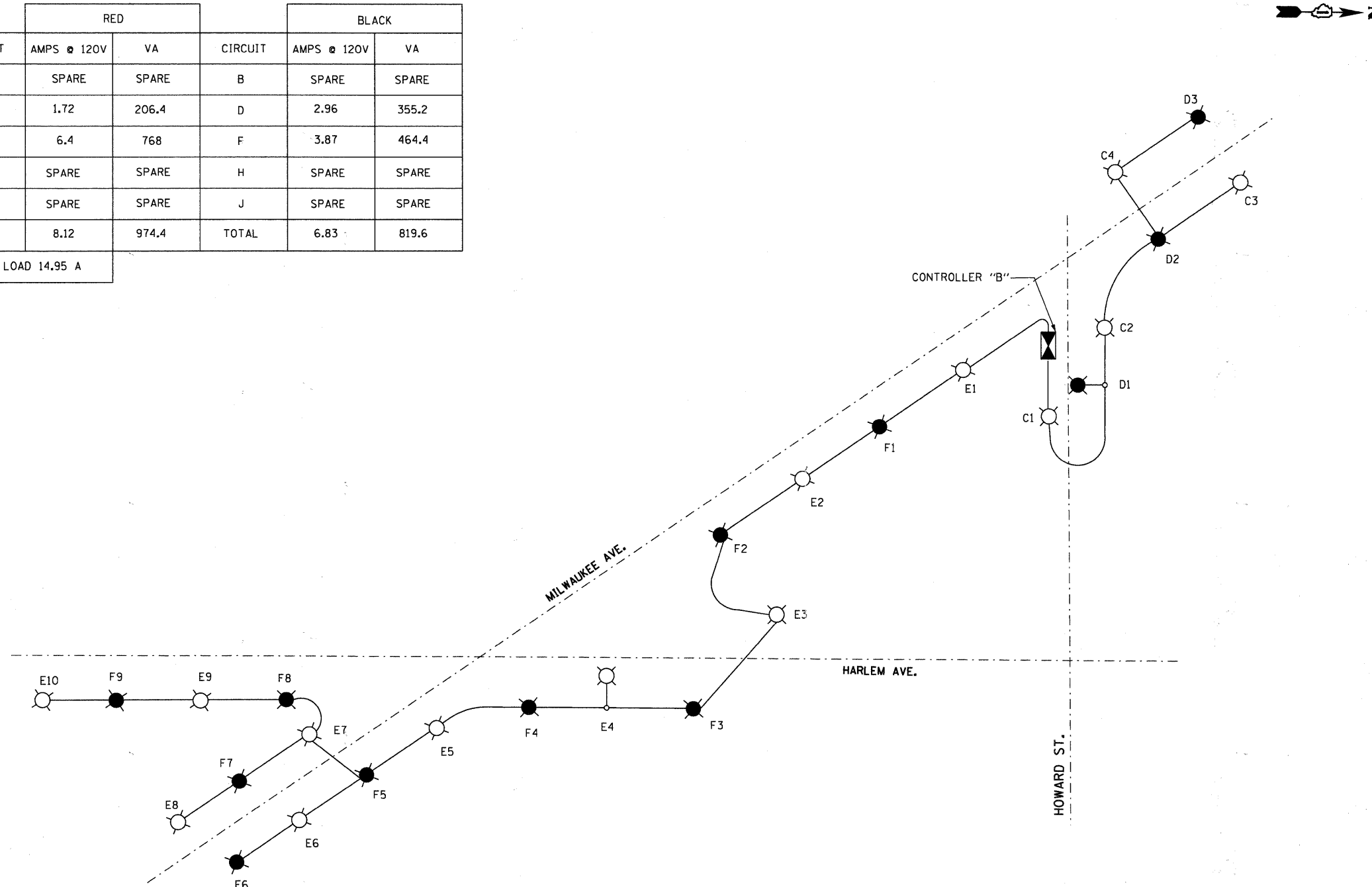
LTG-04

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FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	VILLAGE OF NILES LIGHTING IMPROVEMENTS WIRING DIAGRAM - MILWAUKEE AVE. AT OAKTON STREET	F.A.P. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - RV	REVISED -			3513	10-00-111-00-LS	COOK	62	32
	PLOT DATE = #DATE#	CHECKED - MSA	REVISED -			CONTRACT NO. 63622				
				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

CONTROLLER "B" @ HARLEM AVE.

CIRCUIT	RED		CIRCUIT	BLACK	
	AMPS @ 120V	VA		AMPS @ 120V	VA
A	SPARE	SPARE	B	SPARE	SPARE
C	1.72	206.4	D	2.96	355.2
E	6.4	768	F	3.87	464.4
G	SPARE	SPARE	H	SPARE	SPARE
I	SPARE	SPARE	J	SPARE	SPARE
TOTAL	8.12	974.4	TOTAL	6.83	819.6
TOTAL LOAD 14.95 A					



- LEGEND**
- LUMINAIRES, 250W, 120V WITH RED CIRCUIT
 - LUMINAIRES, 250W, 120V WITH BLACK CIRCUIT
 - PROPOSED LIGHTING CONTROLLER
 - UNIT DUCT 3 1/2" x 6 1/2" #8 GROUND, 1" POLY.
 - LUMINAIRES, 50W, 120V RED CIRCUIT
 - LUMINAIRES, 50W, 120V BLACK CIRCUIT

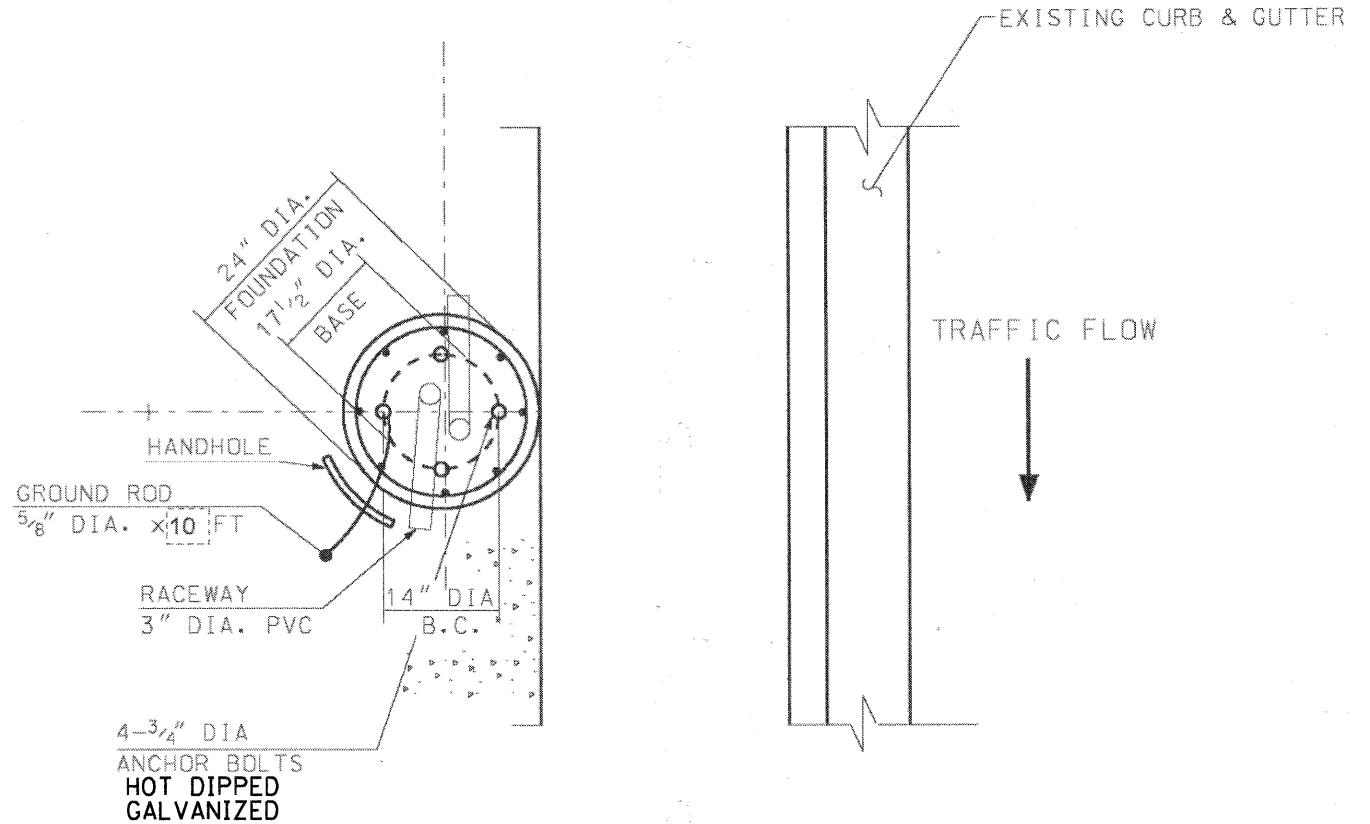
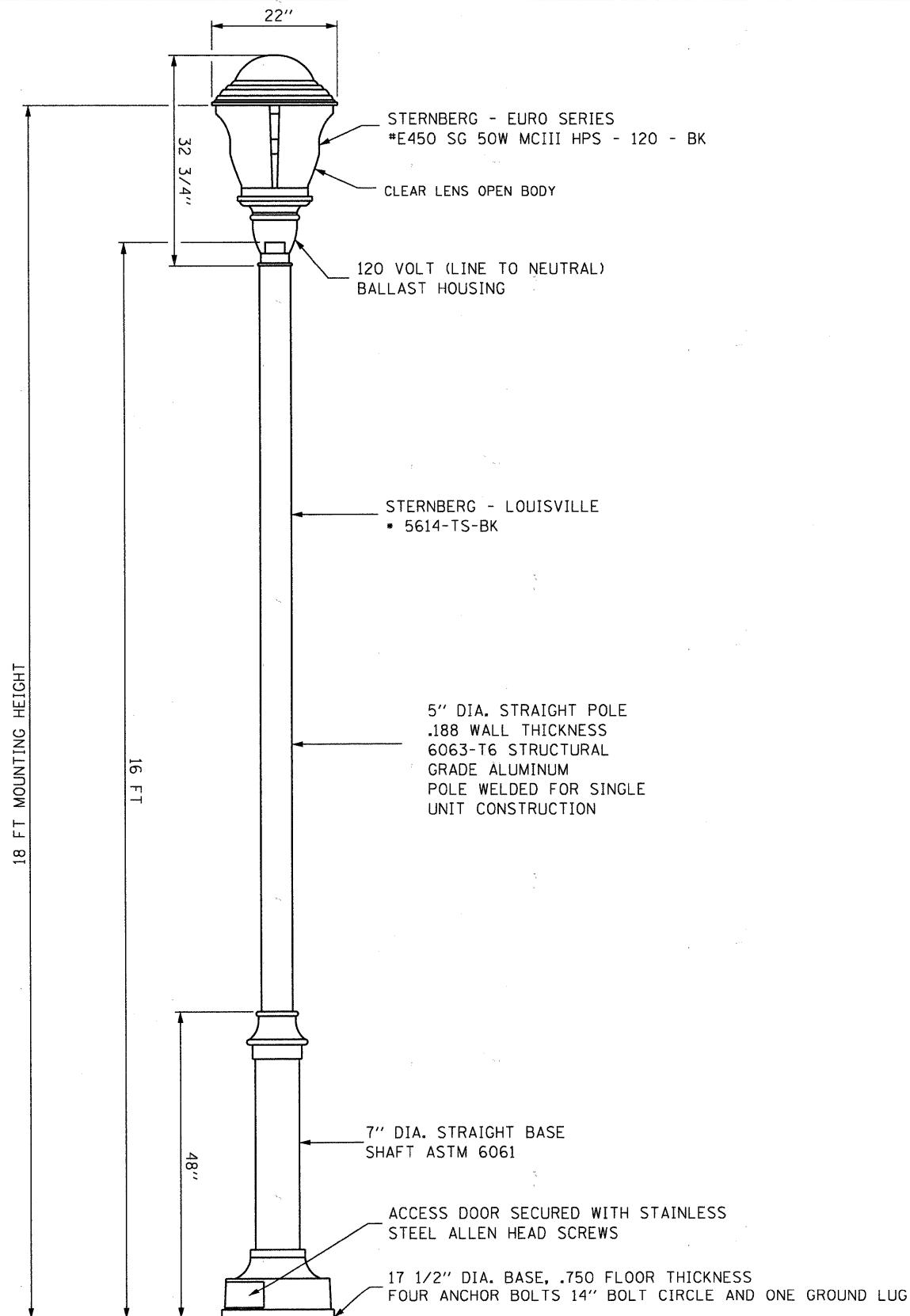
LOAD DATA:
 250W HPS, 120V LUMINAIRE: 2.1A/LUMINAIRE
 50W HPS, 120V LUMINAIRE: 0.43A/LUMINAIRE

NOTE:
 EXISTING LIGHTING AT INTERSECTIONS ARE ON A SEPARATE CIRCUIT AND SHALL REMAIN (NOT AFFECTED BY PROPOSED WORK AND NOT SHOWN HERE).

LTG-05

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FILE NAME =	USER NAME = #USER#	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	VILLAGE OF NILES LIGHTING IMPROVEMENTS WIRING DIAGRAM - MILWAUKEE AVE. AT OAKTON STREET				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE - 06-17-11	REVISED -		[ILLINOIS] FED. AID PROJECT								



**ANCHOR BOLTS AND HANDHOLE POSITION
DETAILS**

NOTES:

1. THE LIGHT POST ASSEMBLY SHALL MEET AASHTO DESIGN CRITERIA.
2. THE BOLT CIRCLE ON THE BASE PLATE SHALL CONFORM WITH THE BOLT CIRCLE ON LIGHT POLE FOUNDATION WHICH IS 14" DIA AS SHOWN ABOVE.
3. THE LIGHT POST SHALL BE ERECTED AND LUMINAIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.
4. EACH LIGHT POLE SHALL BE GROUNDED IN STRICT CONFORMANCE WITH NEC.
5. THE LIGHT POST ASSEMBLY BASE, POST SHAFT AND LUMINAIRE SHALL BE PAINTED IN POWDER COAT BLACK POLYESTER FINISH.
6. THE POST/LUMINAIRE MANUFACTURER SHALL SUBMIT COLOR SAMPLE TO OWNER. THE COLOR SAMPLE MUST BE APPROVED BY THE OWNER.
7. THE LIGHT POST AND LUMINAIRE SHALL BE SET PLUMB ON FOUNDATION.
8. THE CONTRACTOR SHALL COORDINATE TOTAL LENGTH OF ANCHOR BOLTS AND EXTENSION ABOVE TOP OF FOUNDATION WITH THE LIGHT POLE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION AND LENGTH WITH ENGINEER.
9. PLACEMENT OF ALL LIGHT POLES SHALL MEET ADA REQUIREMENTS.
10. THE LIGHT POLE SHALL BE LISTED OR CLASSIFIED BY A UNITED STATES TESTING LABORATORY SUCH AS UL OR ETL OR APPROVED OSHA EQUIVALENT.

LTC-06

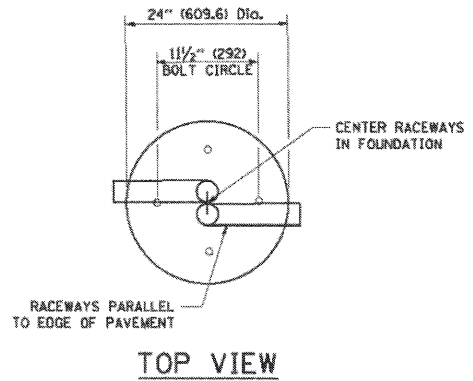
ORNAMENTAL LIGHTING UNIT DETAILS
ALUMINUM POST WITH CAST ALUMINUM BASE /
POST TOP MOUNTED LUMINAIRE

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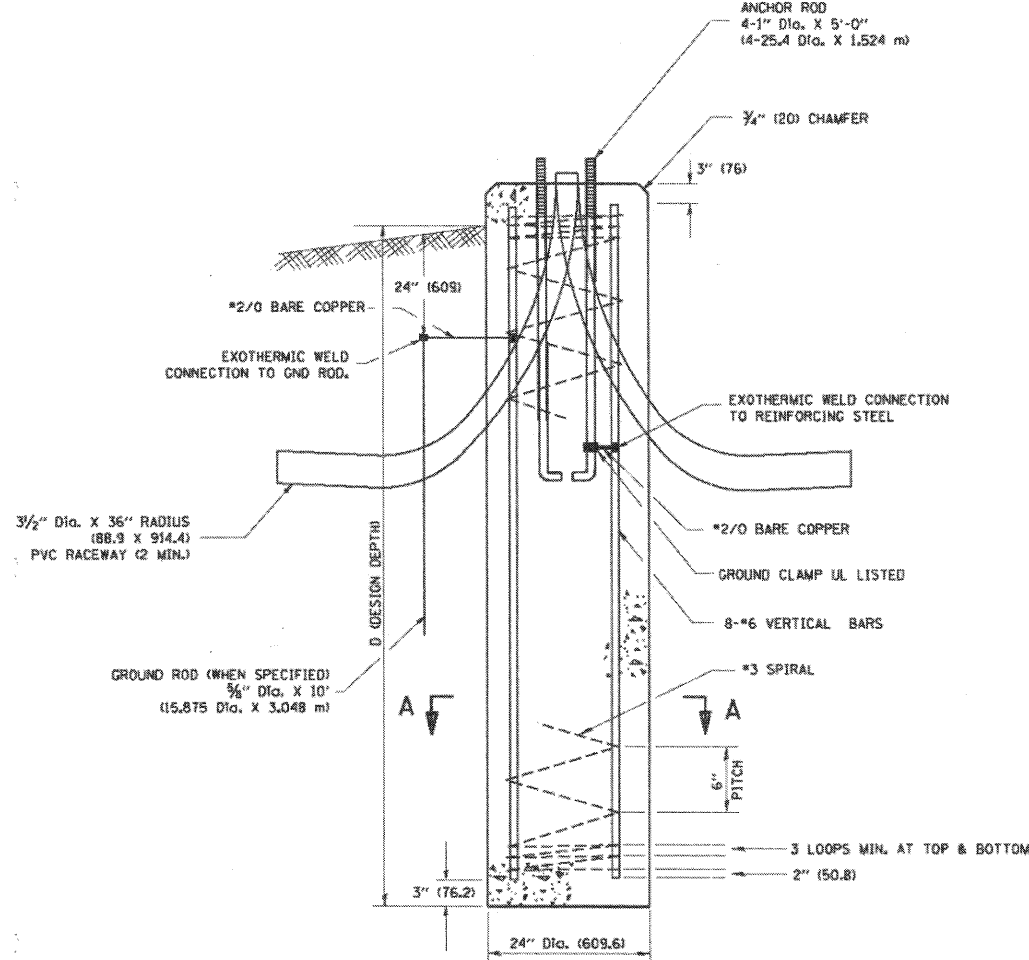
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	PLOT DATE = #DATE#	DATE - 06-17-11	REVISED -		ILLINOIS FED. AID PROJECT								

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

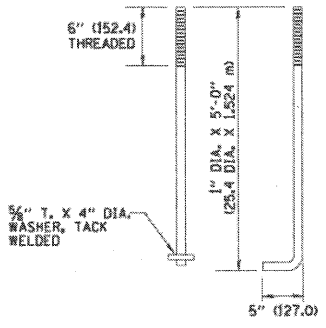
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SO. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SO. FT.	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SO. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND φ = 34°	9'-6" (2.90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



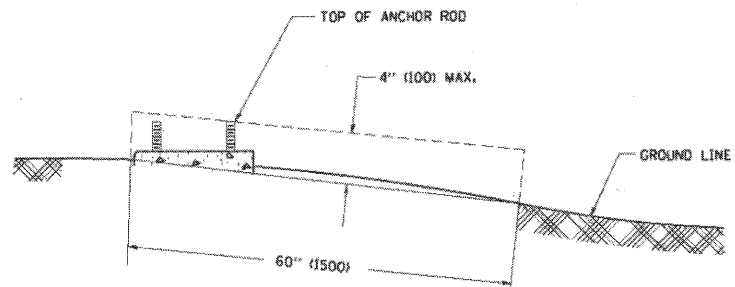
TOP VIEW



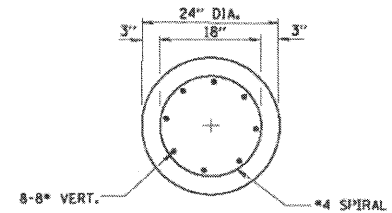
FOUNDATION DETAIL



ANCHOR BOLT DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A

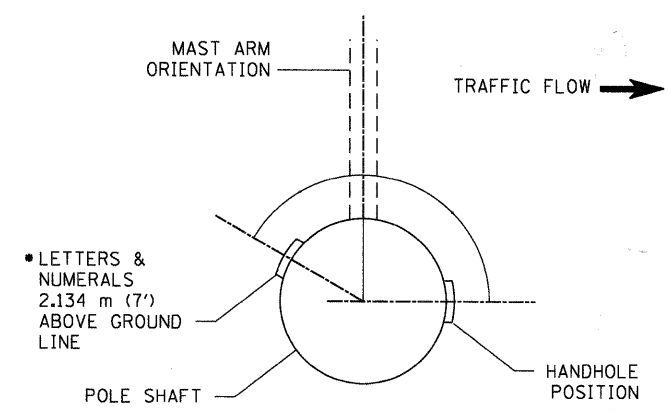
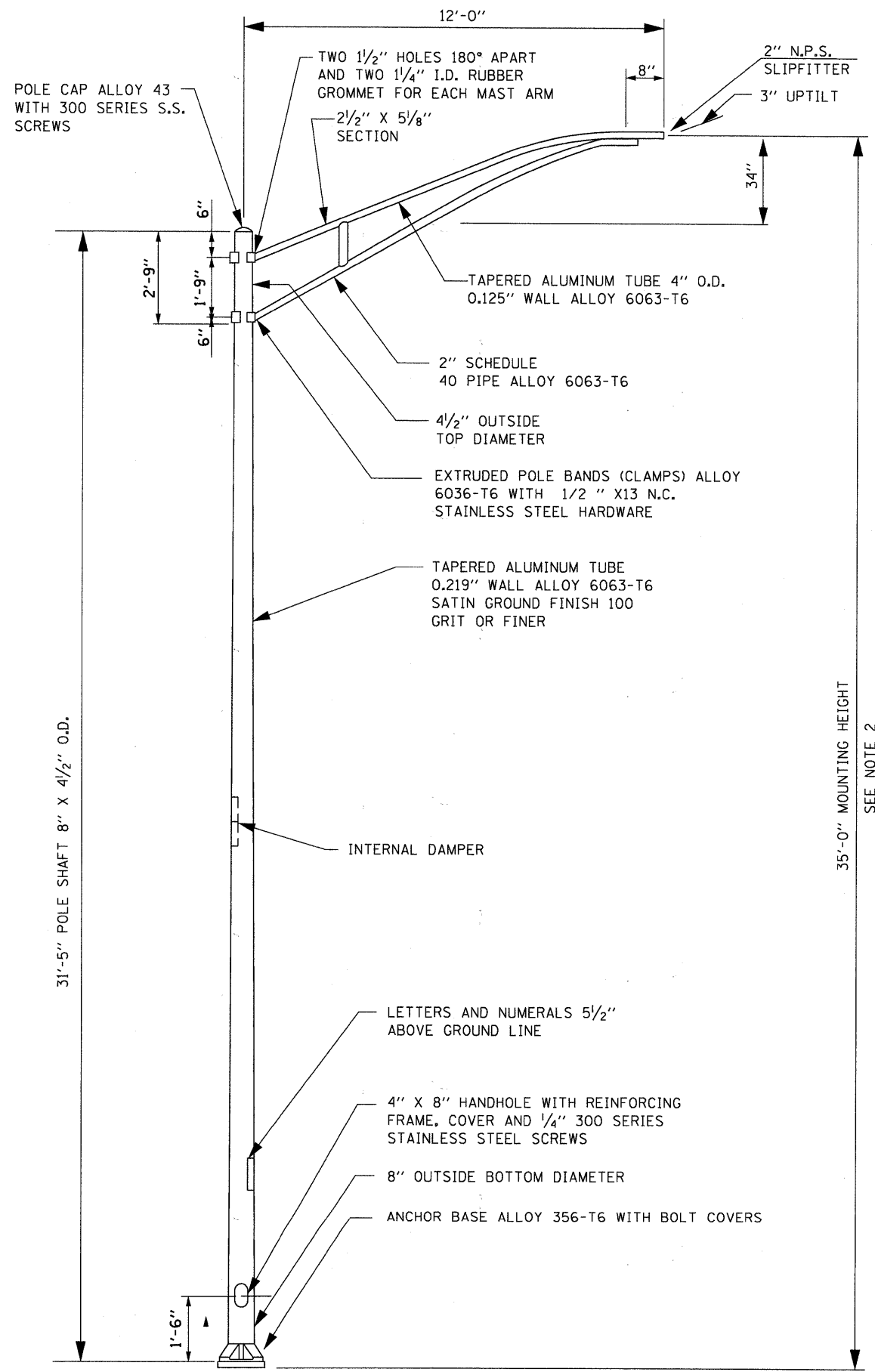
NOTES

- 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 4 IN. (100 mm) 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 SI. 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 D4, 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 UMI6 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.

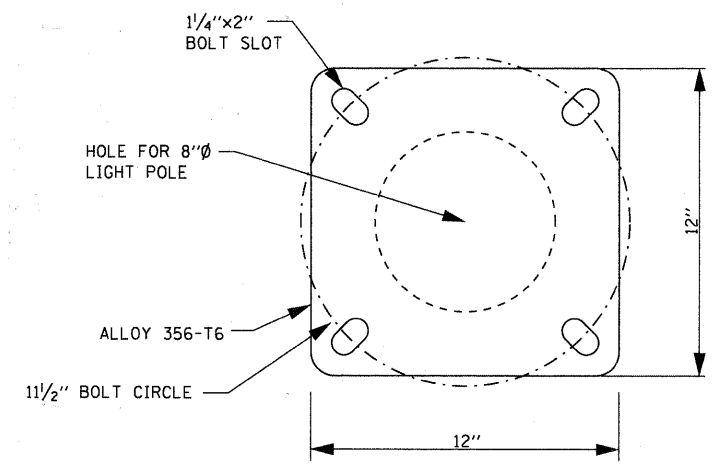
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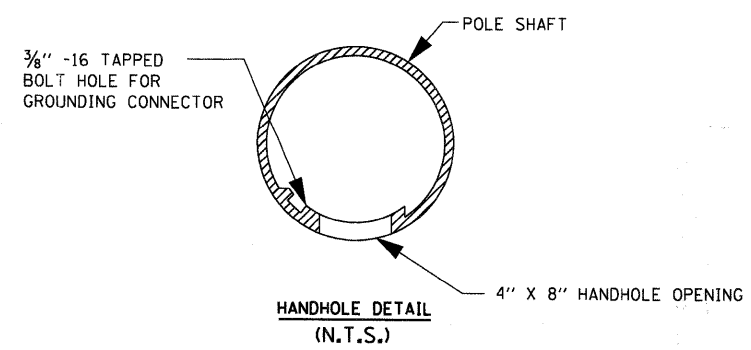
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POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



LIGHT POLE BASE PLATE DETAIL
11 1/2 INCH BOLT CIRCLE



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T & B SP4DL OR APPROVED EQUAL.
 5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.
 8. POLE SHALL BE LISTED PER UL OR ETL OR APPROVED EQUIVALENT TESTING LABORATORY.

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#FILE#		DRAWN - RV	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - MSA	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

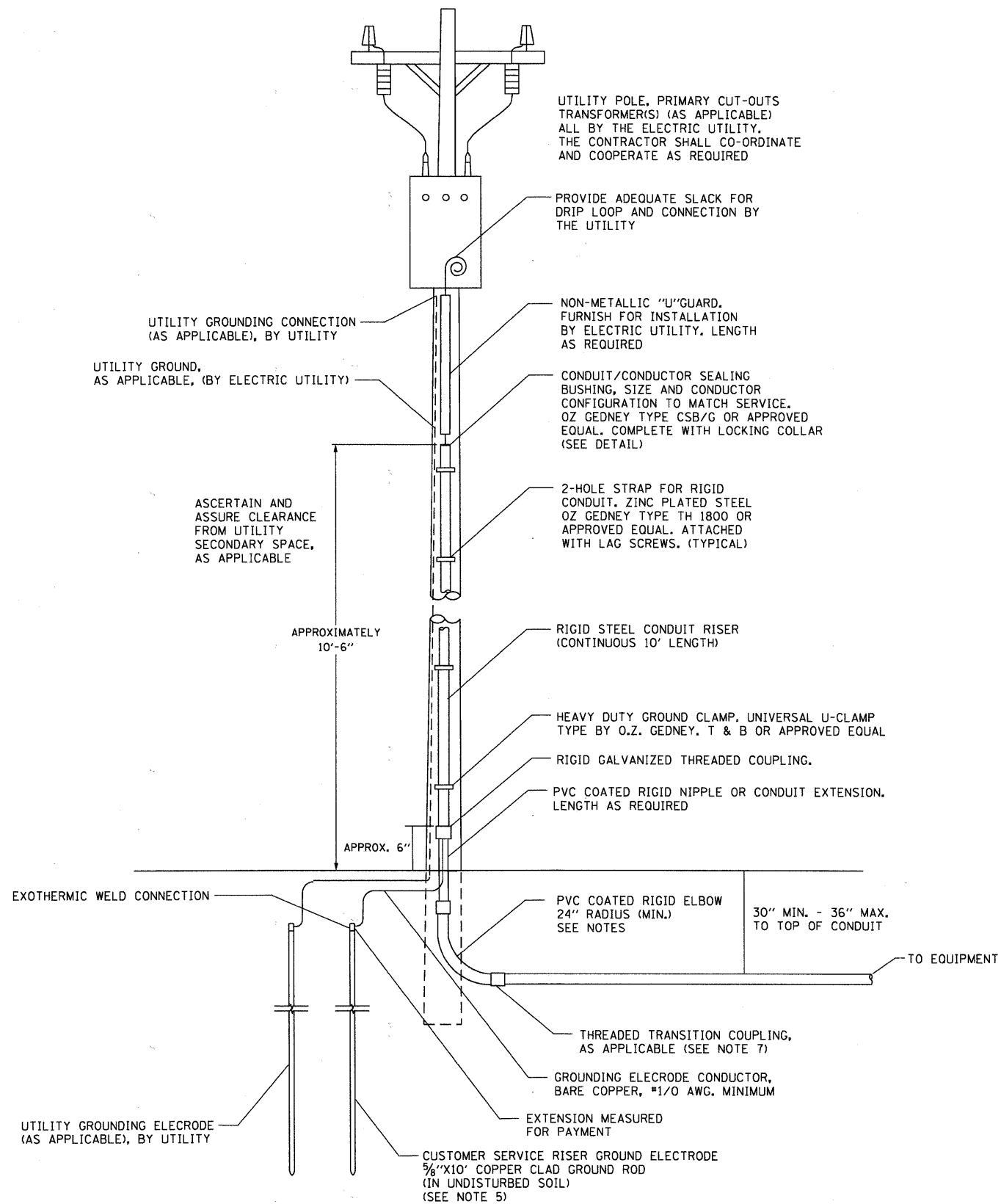
LIGHTING DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63622				
ILLINOIS FED. AID PROJECT				

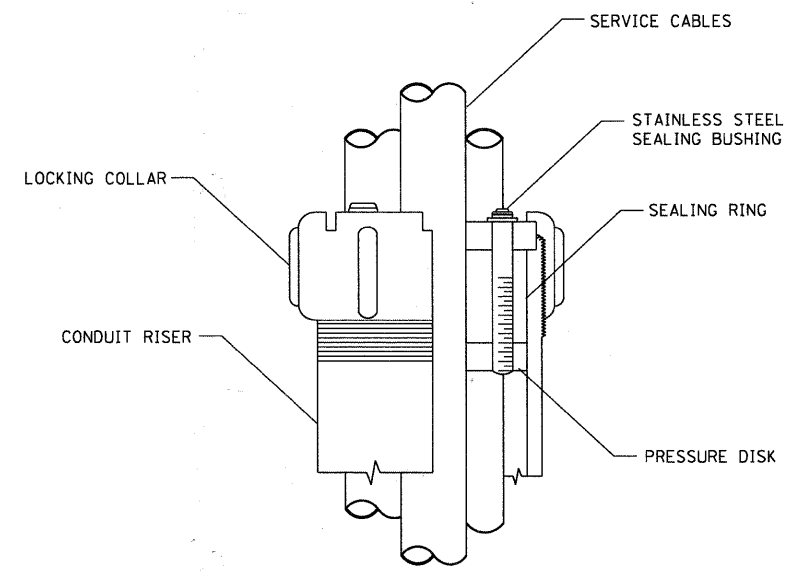
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NOTES:

- SERVICE VOLTAGE SHALL BE 120/240V AS INDICATED ON SHEET LTG-02 AND 04.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF ELECTRIC UTILITY SERVICE INSTALLATION.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACK FILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE SERVICE METER SOCKET, AS APPLICABLE, MOUNTED ELSEWHERE AS INDICATED SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRICAL UTILITY SERVICE INSTALLATION PAY ITEM.
- THE SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALLIC TO NON METALLIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

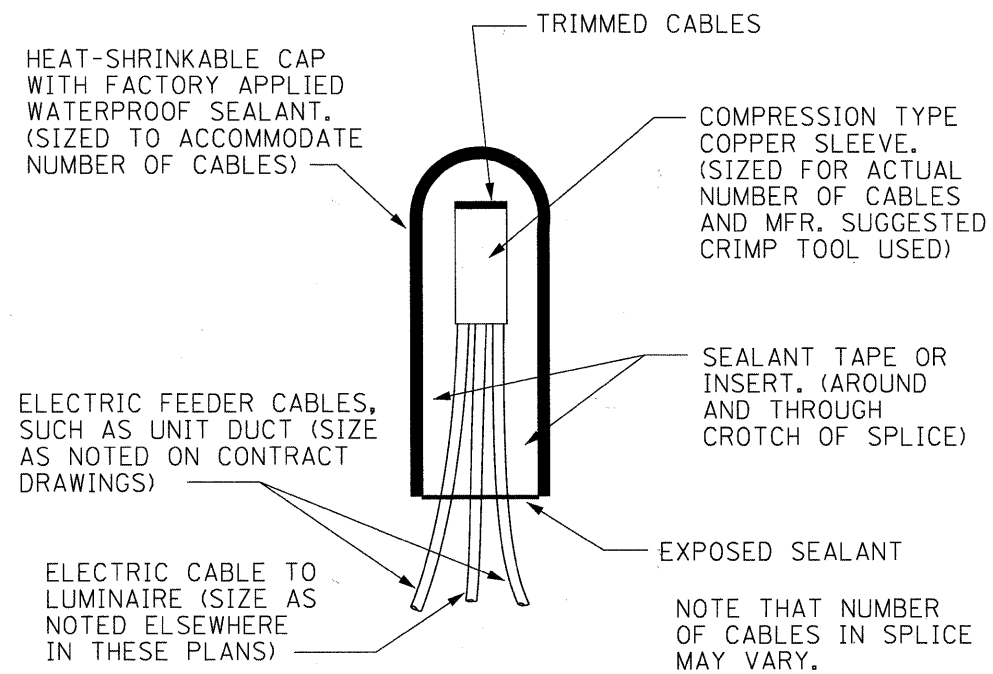


SEALING BUSHING DETAIL

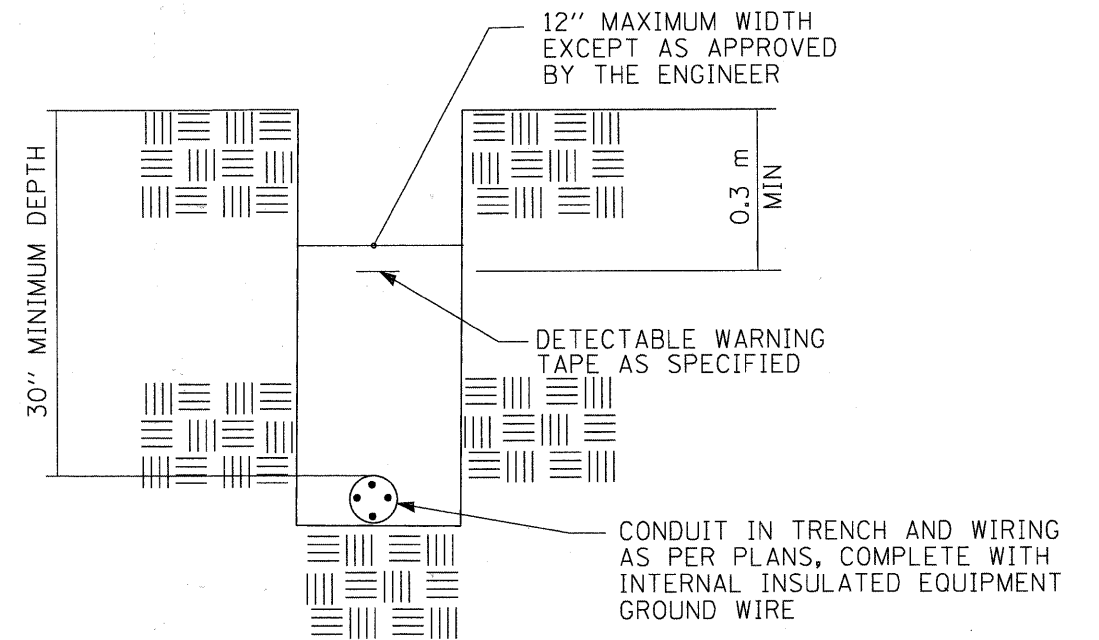
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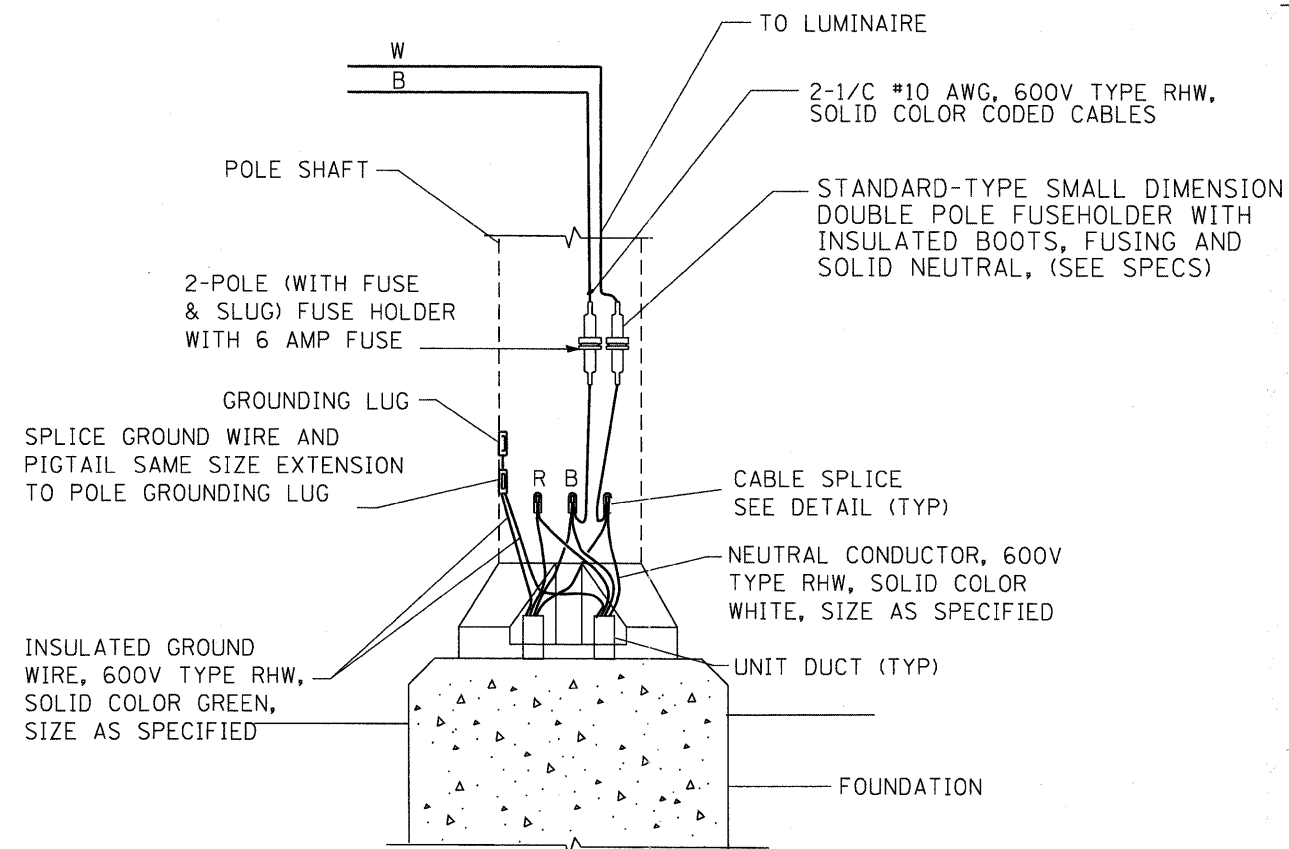
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SPLICING DETAIL
N.T.S.



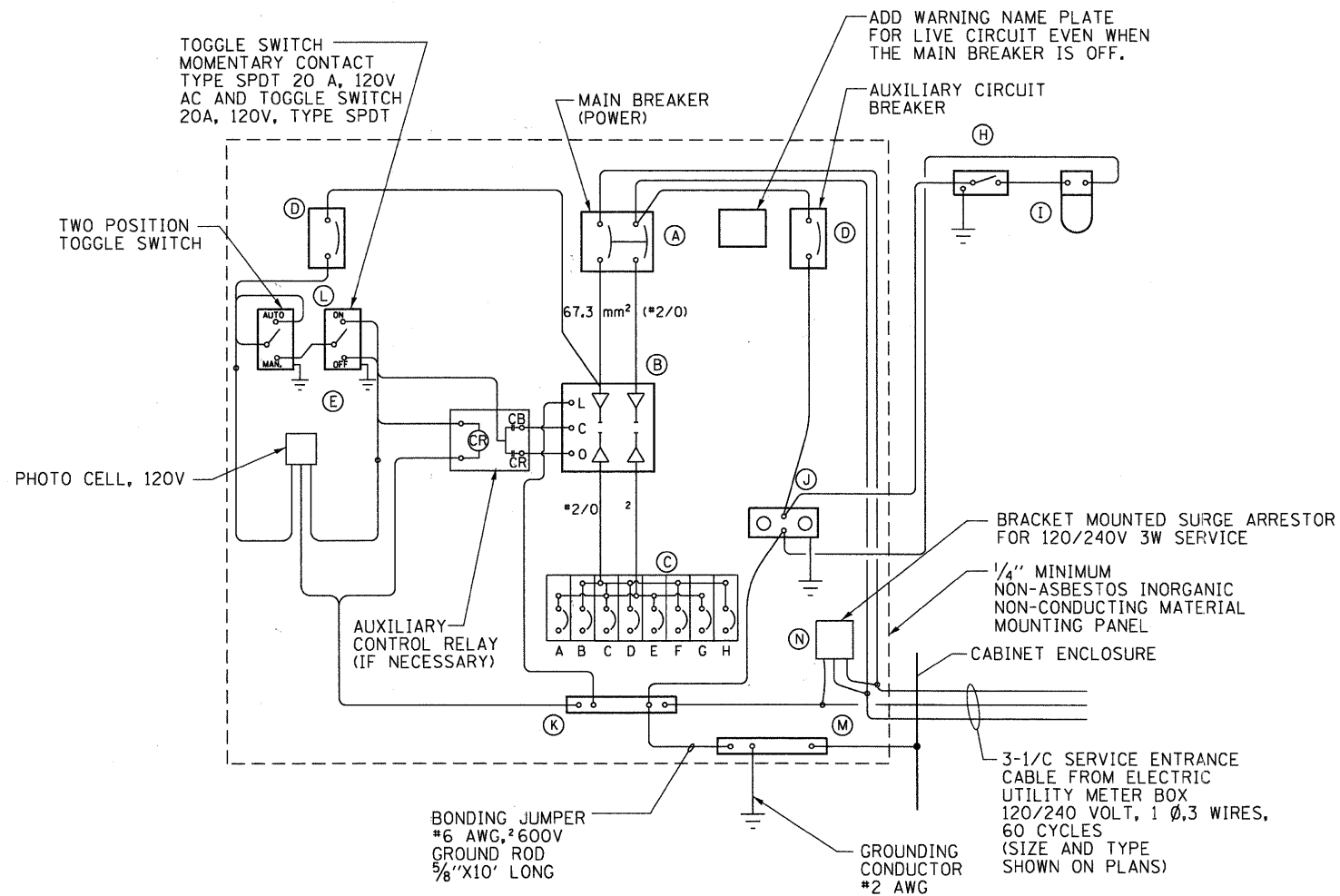
TYPICAL CONDUIT IN TRENCH DETAIL
N.T.S.



POLE BASE WIRING DIAGRAM
SINGLE MAST ARM
N.T.S.

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		DATE - 06-17-11	REVISED -									



WIRING DIAGRAM

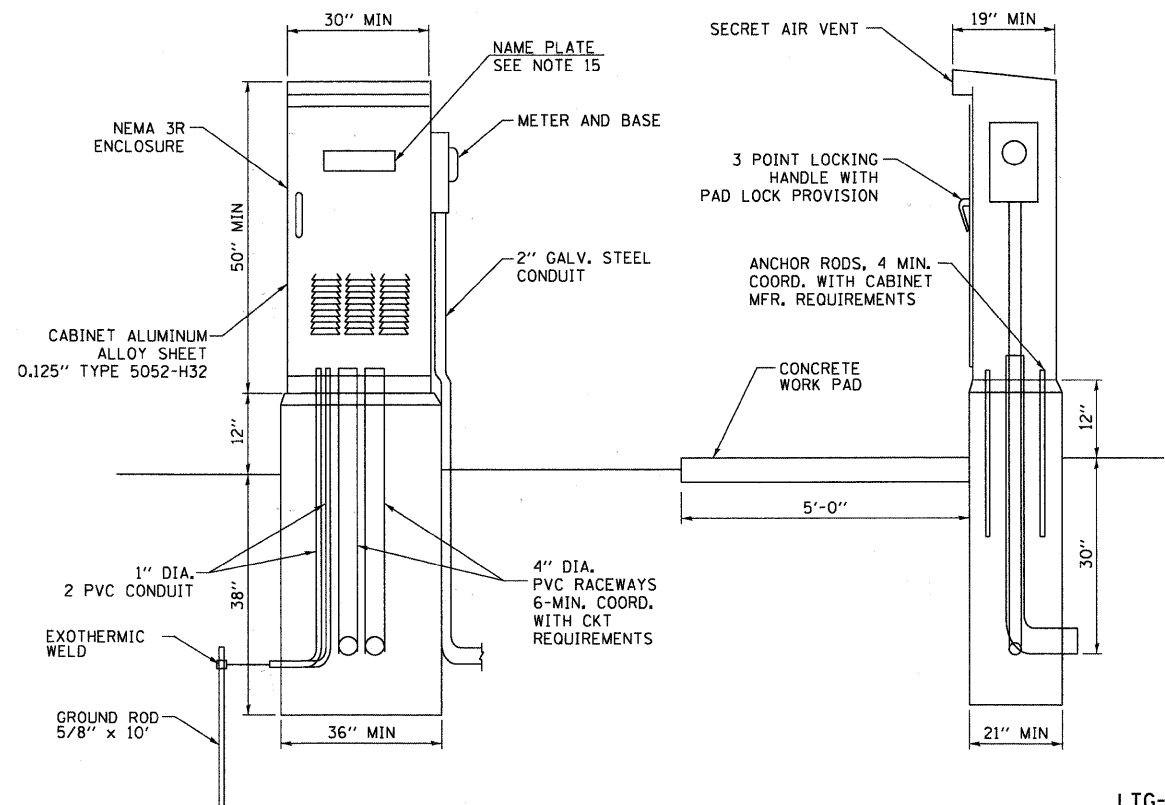
PHOTOCELL MOUNTED
IN CABINET OVERHANG

CABINET OVERHANG

CABINET DOOR

**PHOTOCELL IN CABINET
OVERHANG MOUNTING DETAIL**

NOT TO SCALE



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 6.35 mm (1/4") DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED POWDER COATED BLACK AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 304.8 mm (12") X 406.4 mm (16") STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "VILLAGE OF NILES" LIGHTING CONTROLLER UNLESS OTHERWISE SPECIFIED.
- SERVICE DISCONNECT SHOULD HAVE UL LABEL AND THE EQUIPMENT SHOULD BE SUITABLE FOR SERVICE ENTRANCE EQUIPMENT.

PANEL EQUIPMENT

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100AMP. FRAME, 100AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 240 VOLT.
B	1	REMOTE CONTROL CONTACTOR, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUITS 120 VOLT COIL, ASCO 920.
C	8	CIRCUIT BREAKERS, 1 POLE, 277V., 100AMP. FRAME 50AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-14,000 AMP. AT 120 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100AMP. FRAME, 15AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-14,000 AMP. AT 120 V.
E	1	PHOTECCELL, 120V
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER NEUTRAL BUS 6.35 mm (1/4") X 25.4 mm (1") X 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS.
L	1	TOGGLE SWITCHES MOUNTED IN 101.6 mm (4") X 101.6 mm (4") BOX.
M	1	COPPER GROUND BUS 6.35 mm (1/4") X 25.4 mm (1") X 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS.
N	1	SURGE ARRESTOR

LTG-11

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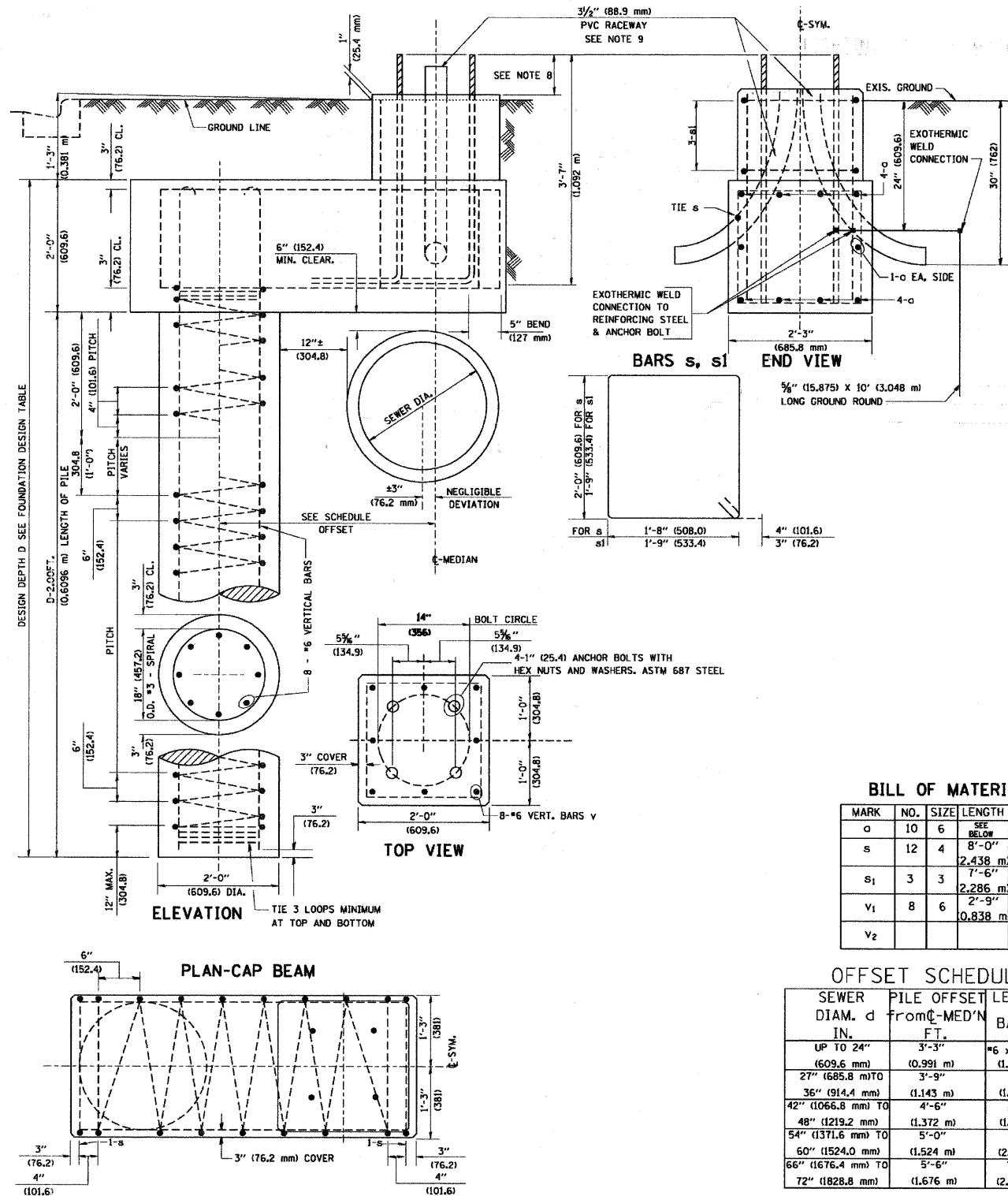
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		CHECKED - MSA	REVISED -		CONTRACT NO. 63622									
		DATE - 06-17-11	REVISED -		ILLINOIS FED. AID PROJECT									

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	*3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	*3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	*3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	*3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	*3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	*3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	*3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	*3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	*3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- 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 BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- 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.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" 2.438 m	□
s1	3	3	7'-6" 2.286 m	□
v1	8	6	2'-9" 0.838 m	—
v2				

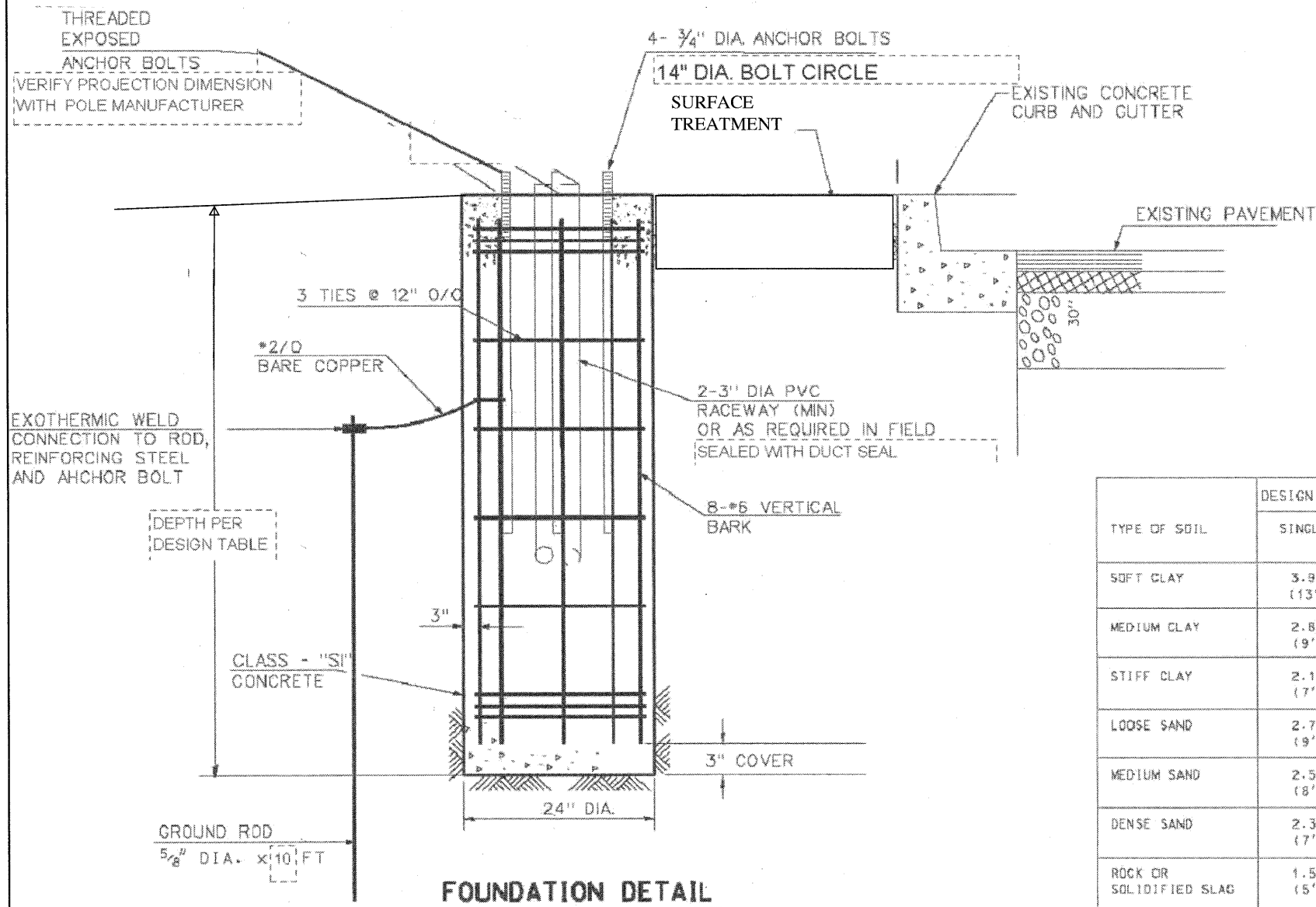
OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET FROM C-MED'N FT.	LENGTH OF BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (1.091 m)	*6 x 5'-3" (1.600 m)
27" (685.8 mm) TO 36" (914.4 mm)	3'-9" (1.143 m)	5'-9" (1.753 m)
42" (1066.8 mm) TO 48" (1219.2 mm)	4'-6" (1.372 m)	6'-6" (1.981 m)
54" (1371.6 mm) TO 60" (1524.0 mm)	5'-0" (1.524 m)	7'-0" (2.134 m)
66" (1676.4 mm) TO 72" (1828.8 mm)	5'-6" (1.676 m)	7'-6" (2.286 m)

LIGHT POLE FOUNDATION OFFSET
14" (356 mm) BOLT CIRCLE

LTG-12

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FOUNDATION DETAIL

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	3.962 m (13'-0")	4.572 m (15'-0")	8-#6x3.810 m (121'-0")	#3x37.186 m (122')	8-#6x4.343 m (14'-3")	#3x42.977 m (141')
MEDIUM CLAY	2.896 m (9'-6")	3.277 m (10'-9")	8-#6x2.743 m (9'-0")	#3x27.432 m (90')	8-#6x3.048 m (10'-0")	#3x30.480 m (100')
STIFF CLAY	2.134 m (7'-0")	2.438 m (8'-0")	8-#6x1.981 m (6'-6")	#3x20.112 m (66')	8-#6x2.286 m (17'-6")	#3x23.165 m (76')
LOOSE SAND	2.743 m (9'-0")	3.048 m (10'-0")	8-#6x2.591 m (8'-6")	#3x25.908 m (85')	8-#6x2.896 m (9'-6")	#3x28.651 m (94')
MEDIUM SAND	2.515 m (8'-3")	2.743 m (9'-0")	8-#6x2.438 m (8'-0")	#3x23.774 m (78')	8-#6x2.591 m (8'-6")	#3x25.908 m (85')
DENSE SAND	2.362 m (7'-9")	2.743 m (9'-0")	8-#6x2.286 m (7'-6")	#3x22.250 m (73')	8-#6x2.591 m (8'-6")	#3x25.908 m (85')
ROCK OR SOLIDIFIED SLAG	1.524 m (5'-0")	1.524 m (5'-0")	NONE	NONE	NONE	NONE

FOUNDATION NOTES

- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" IN DIAMETER.
- THE CONTRACTOR SHALL USE #3 SPIRAL AT 6" PITCH OR AT HIS OPTION MAY SUBSTITUTE #3 TIES AT 12" O.C.
- THE ANCHOR SHALL BE A TACK WELDED PLATE TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A 153.
- CONCRETE SHALL BE CLASS "SI". CONCRETE FOUNDATION MUST BE CURED FOR (10) TEN DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.
- ANCHOR BOLTS PROJECTION ABOVE THE TOP OF THE FOUNDATION, SHALL BE ACCORDING TO THE MANUFACTURER RECOMENDATIONS.
- RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
- REINFORCEMENT BARS SHALL COMPLY WITH ARTICLE 1006.10 OF THE STANDARD SPECIFICATION.
- THE CONTRACTOR SHALL COORDINATE TOTAL LENGTH OF ANCHOR BOLTS AND EXTENSION ABOVE TOP OF FOUNDATION WITH THE LIGHT POLE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENSION AND LENGTH WITH ENGINEER. MINIMUM ACCEPTABLE EMBEDMENT LENGTH FOR ANCHOR BOLTS CONFORMING TO NOTE 5 IS 36". ANCHOR ROD SHALL BE A MINIMUM OF 3/4" IN DIAMETER CONFORMING TO ASTM F 1554 (GR, 105).
- FOUNDATION DEPTH SHOWN ASSUMES MEDIUM CLAY OR SAND. THE ENGINEER SHALL DETERMINE ACCEPTABILITY. IN THE EVENT SOFT MATERIAL OR FILL IS ENCOUNTERED, ENGINEER MAY REQUIRE INCREASED FOUNDATION DEPTH.
- GROUND ROD AND GROUNDING EQUIPMENT IS INCIDENTAL TO FOUNDATION PAY ITEM (TYP).

LTG-13

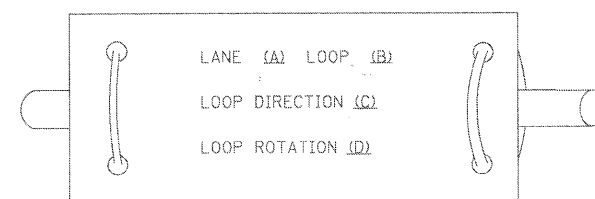
AMES Engineering, Inc.
CONSULTING ENGINEERS
1541 Warren Avenue
Downers Grove, IL 60516
(630) 737-1987 (T), (630) 470-9891 (F)
www.amesengineeringinc.com

FILE NAME =	USER NAME = #USER#	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE - 06-17-11	REVISED -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

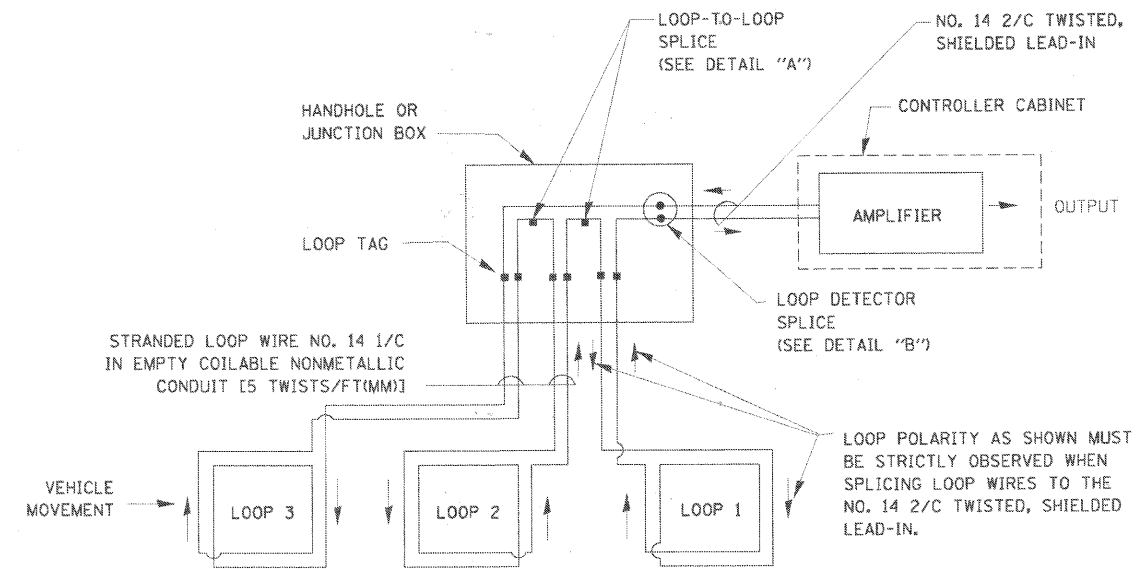
LOOP DETECTOR NOTES

- 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.
- 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 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.
- 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.
- 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

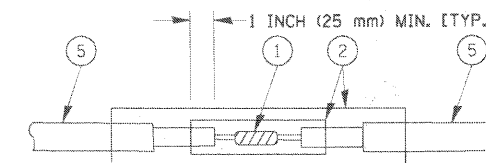


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

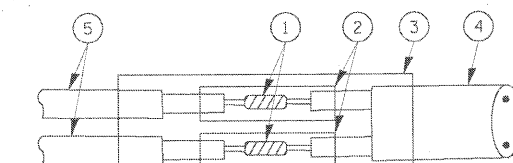


DETECTOR LOOP WIRING SCHEMATIC

- 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.

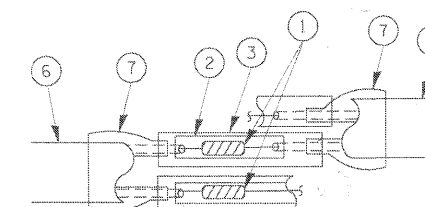


DETAIL "A"
LOOP-TO-LOOP SPLICE

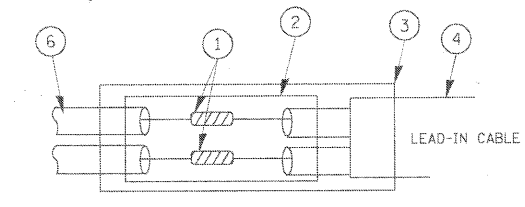


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

COMPANY NAME: HRGreen
PROJECT CONTACT: #PROJECT CONTACT
CLIENT: #CLIENT
DATE PLOTTED: 7/28/2011 4:08:04 PM
PLOT NUMBER: 63622-stdt01.dgn
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	DRAWN - BCK	REVISED -
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PLOT DATE = 7/28/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

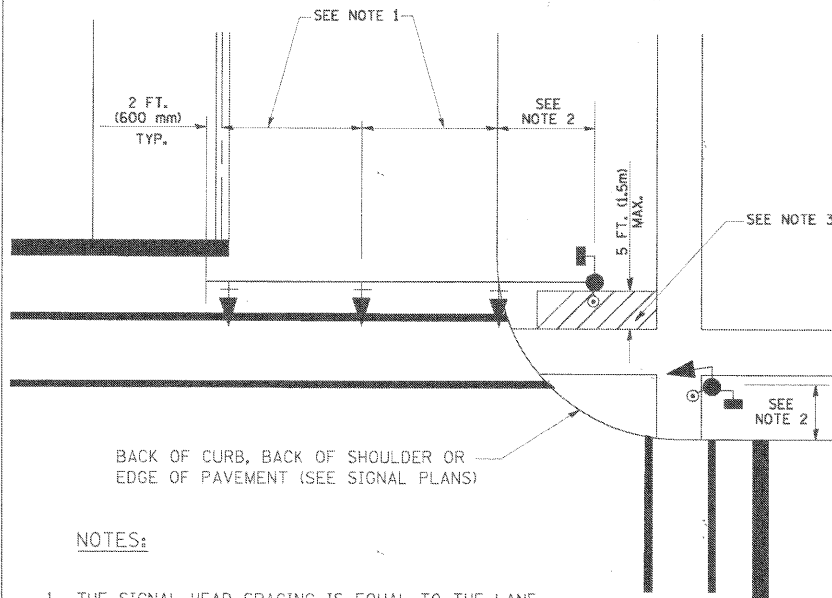
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: SHEET NO. 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 42
FED. ROAD DIST. NO. ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 63622	

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

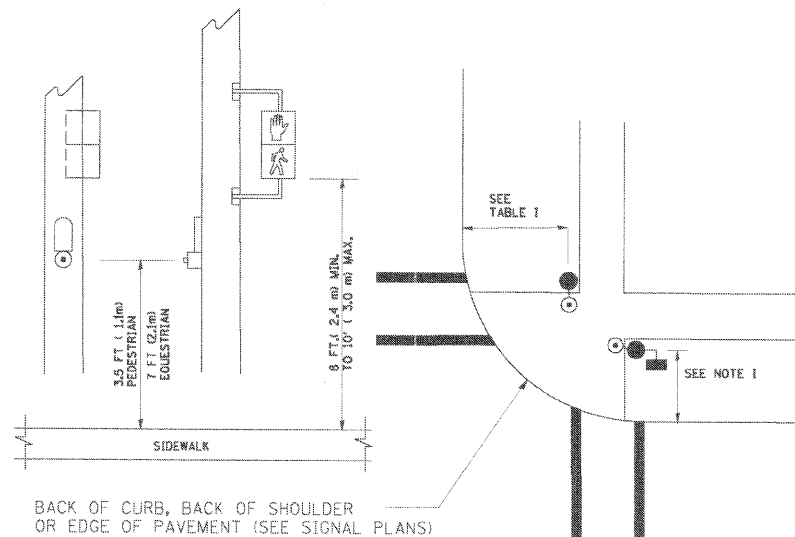
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

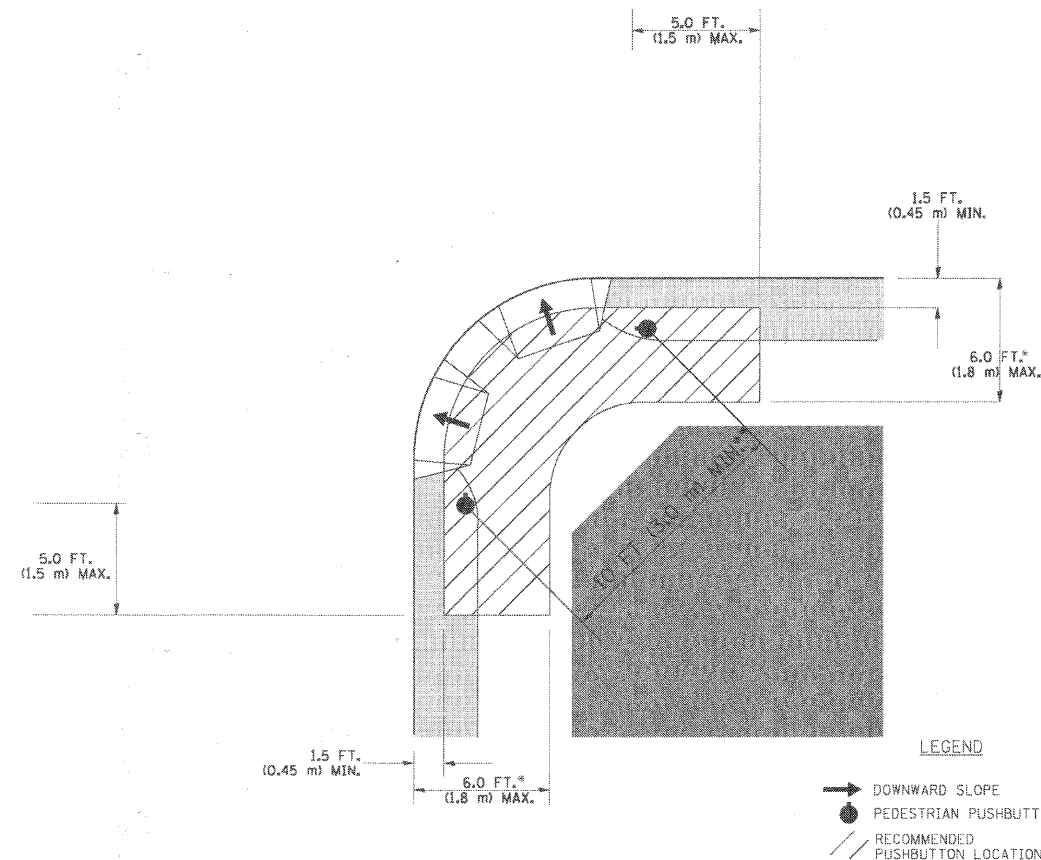
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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) SEPARATION 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 AFFECT 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.

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 PROJECT CONTACT: #194-01322
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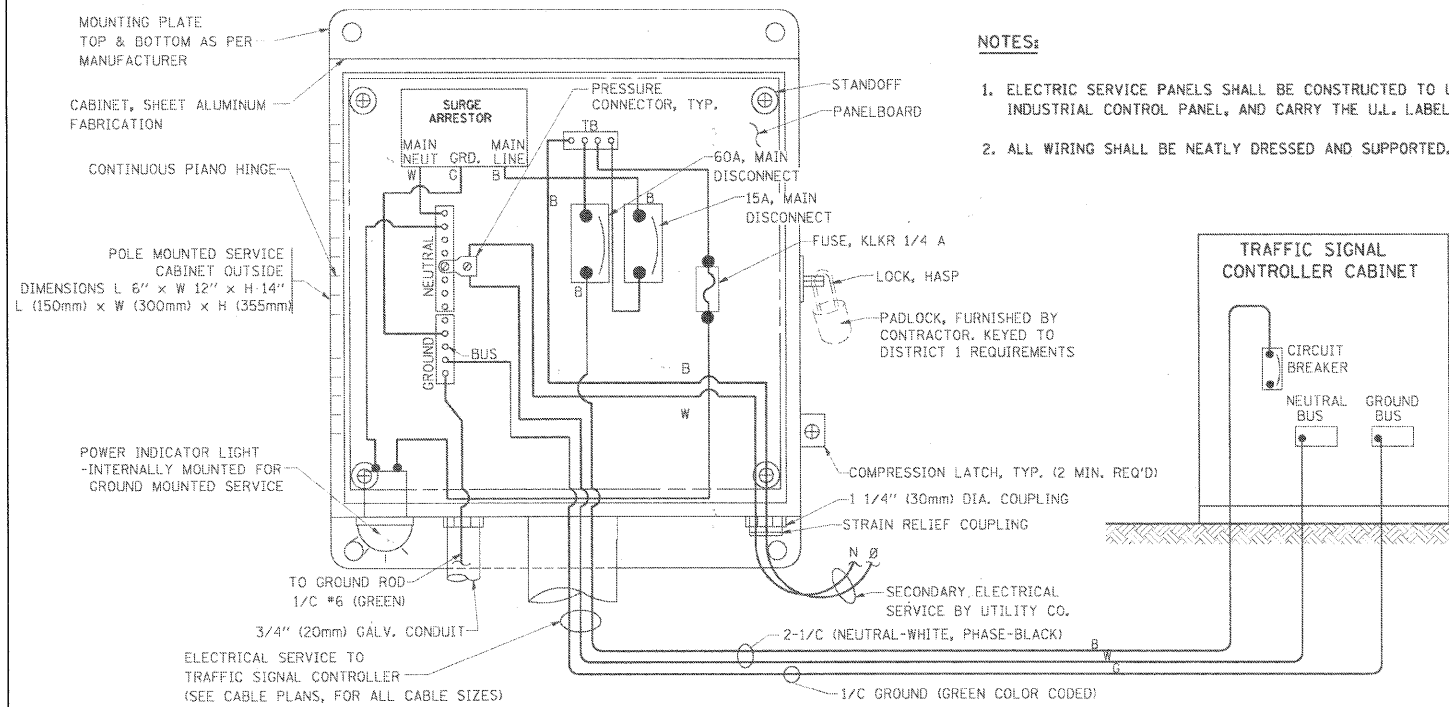
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

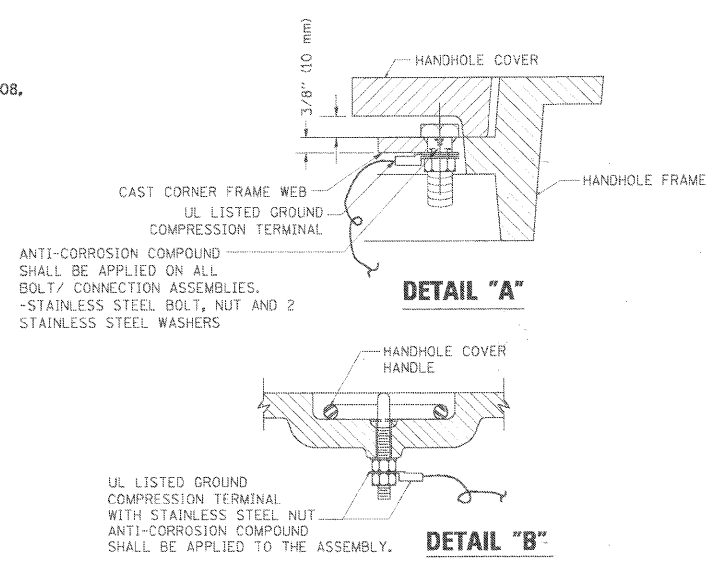
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-0011-00-LS	COOK	62	43
CONTRACT NO. 63622				

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

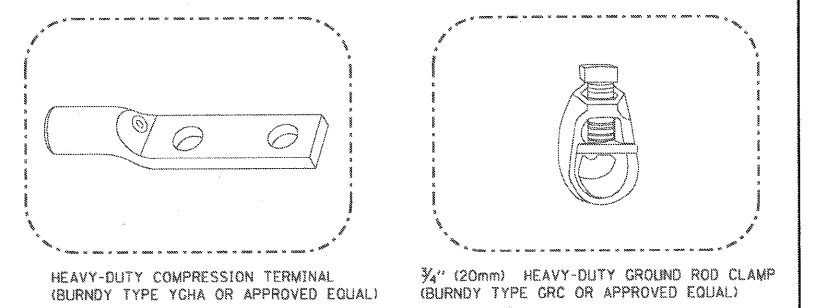
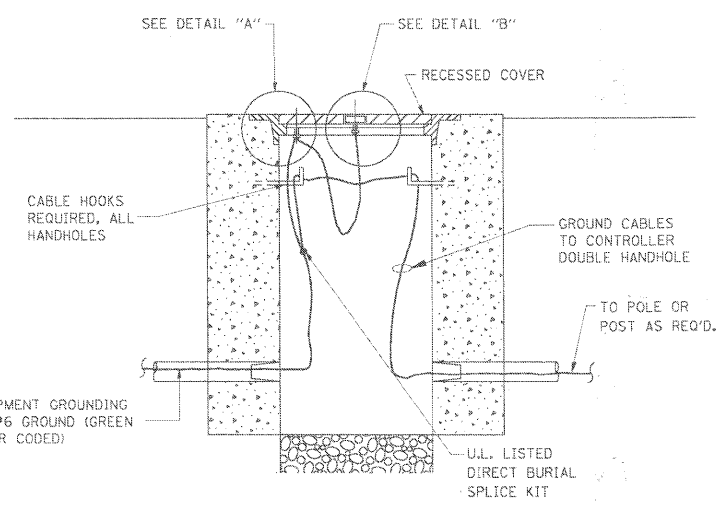


- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

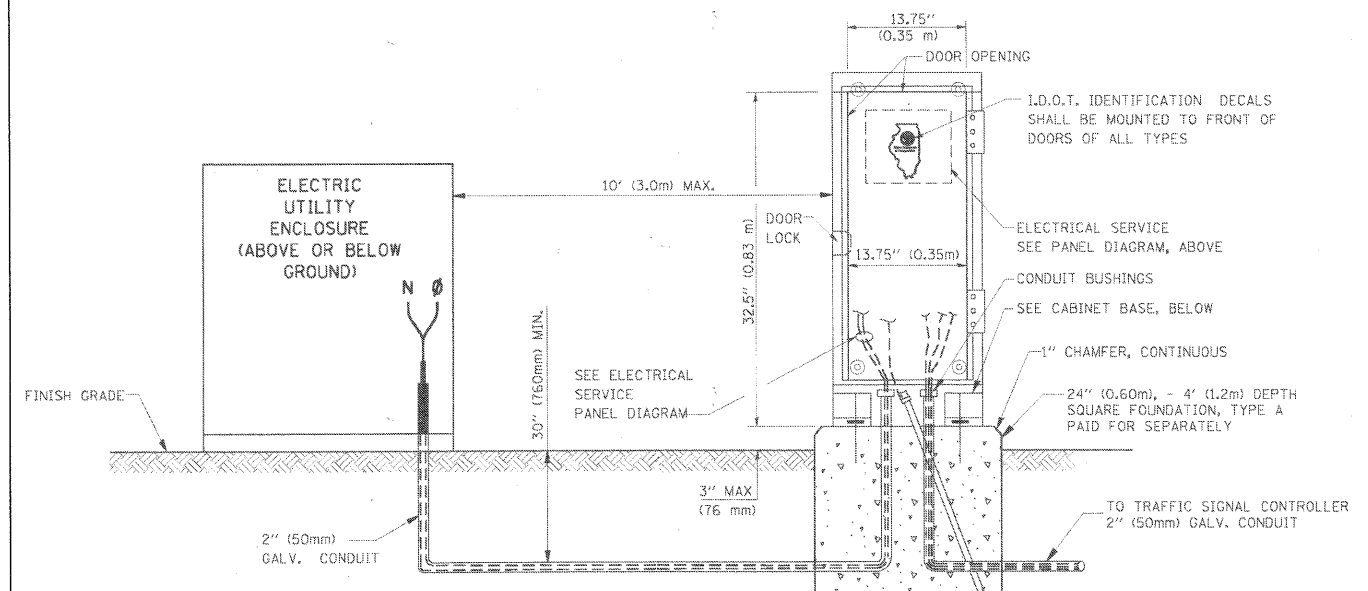


- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED 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.

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

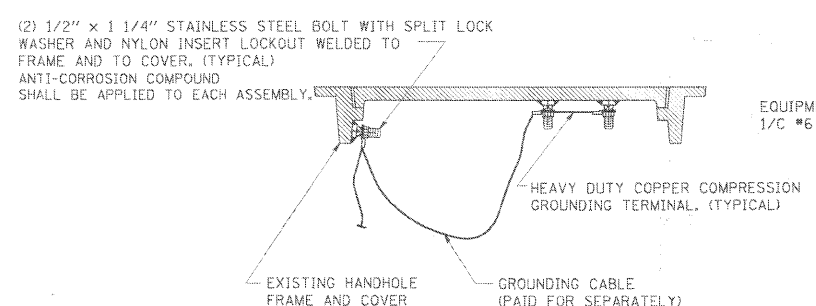


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

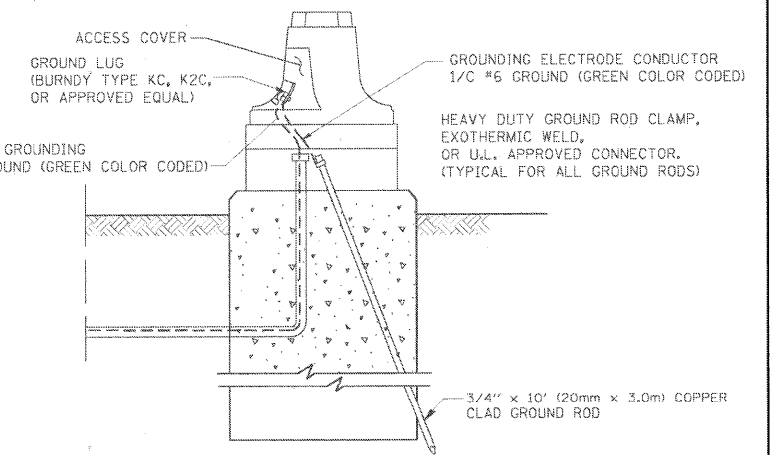


SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

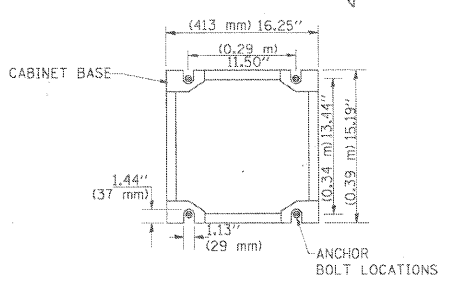
HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



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



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



CABINET - BASE BOLT PATTERN (NOT TO SCALE)

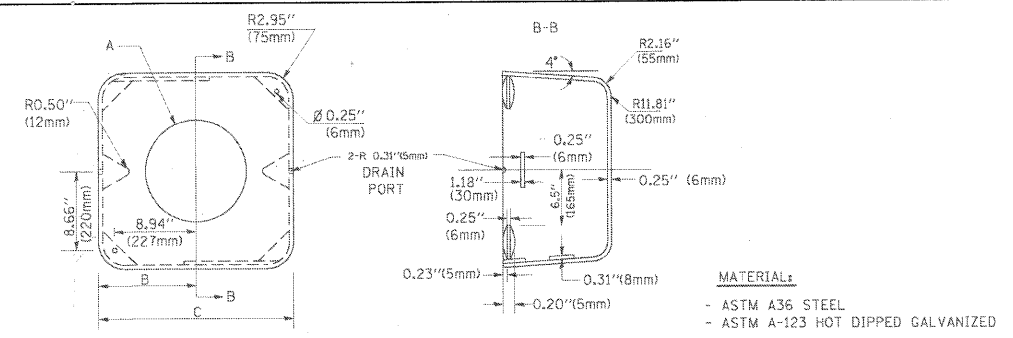
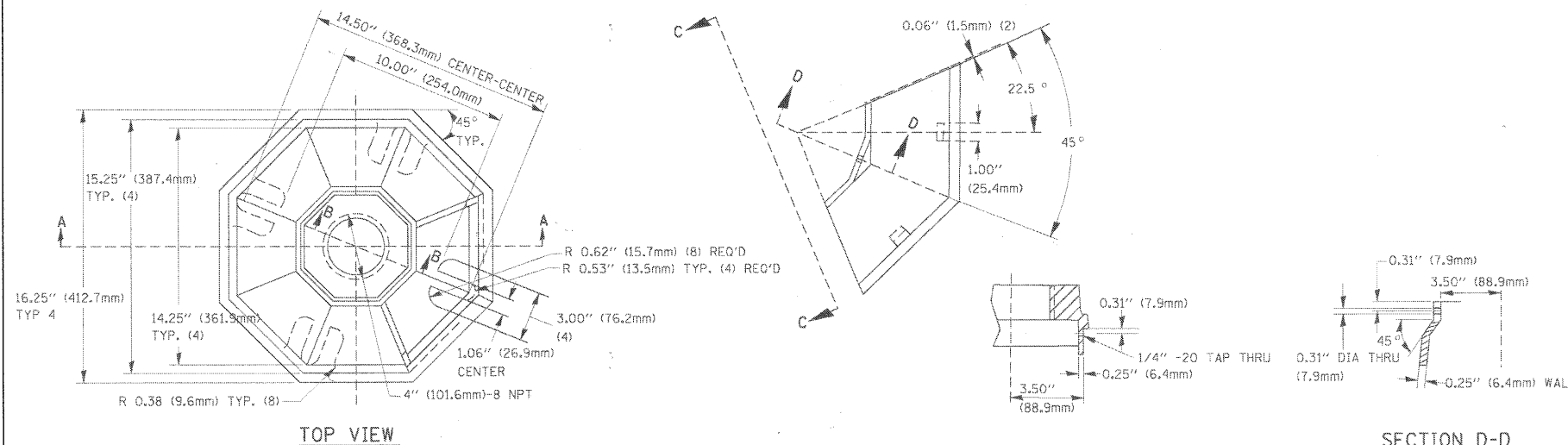
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

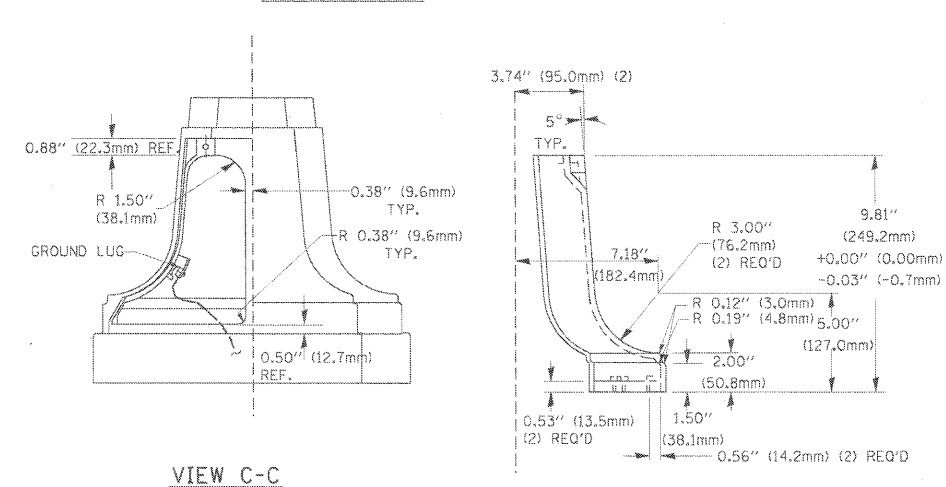
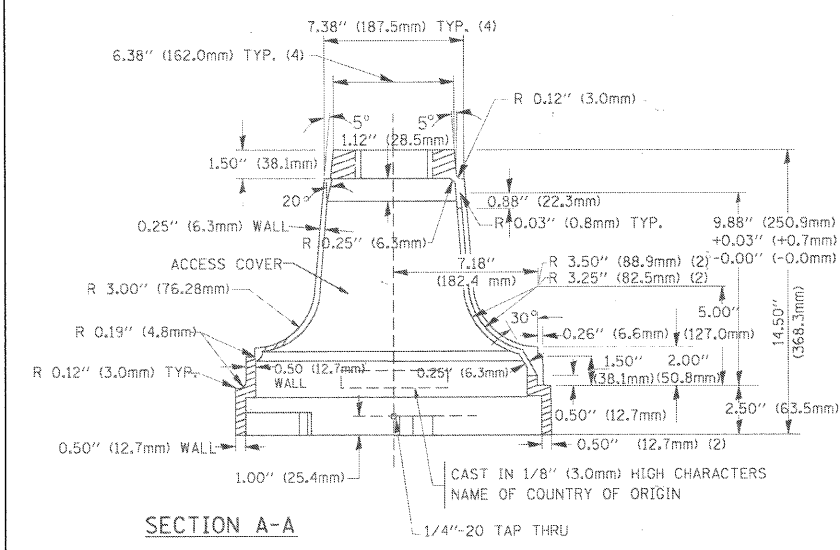
DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		374	10-00111-00-LS	COOK	62	44
SCALE:	SHEET NO. 3 OF 7 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			



A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\" (241mm)	19\" (483mm)	7\" (178mm) - 12\" (300mm)	53 lbs (24kg)
VARIABLES	10.75\" (273mm)	21.5\" (546mm)	7\" (178mm) - 12\" (300mm)	68 lbs (31 kg)
VARIABLES	13.0\" (330mm)	26\" (660mm)	7\" (178mm) - 12\" (300mm)	81 lbs (37 kg)
VARIABLES	18.5\" (470mm)	37\" (940mm)	7\" (178mm) - 12\" (300mm)	126 lbs (57 kg)

NOTES:

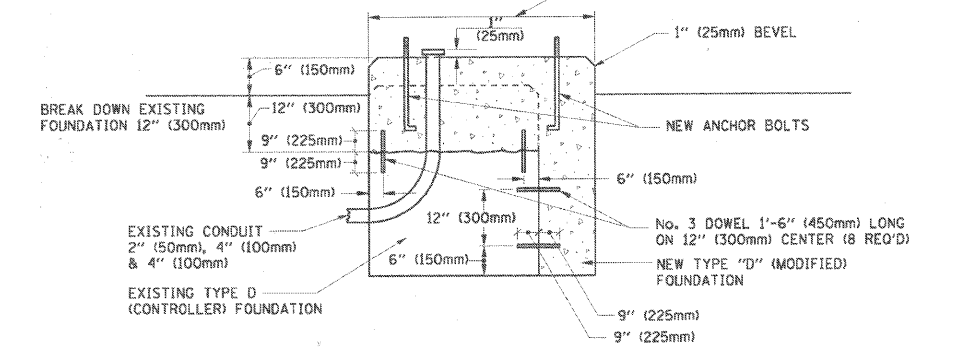
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



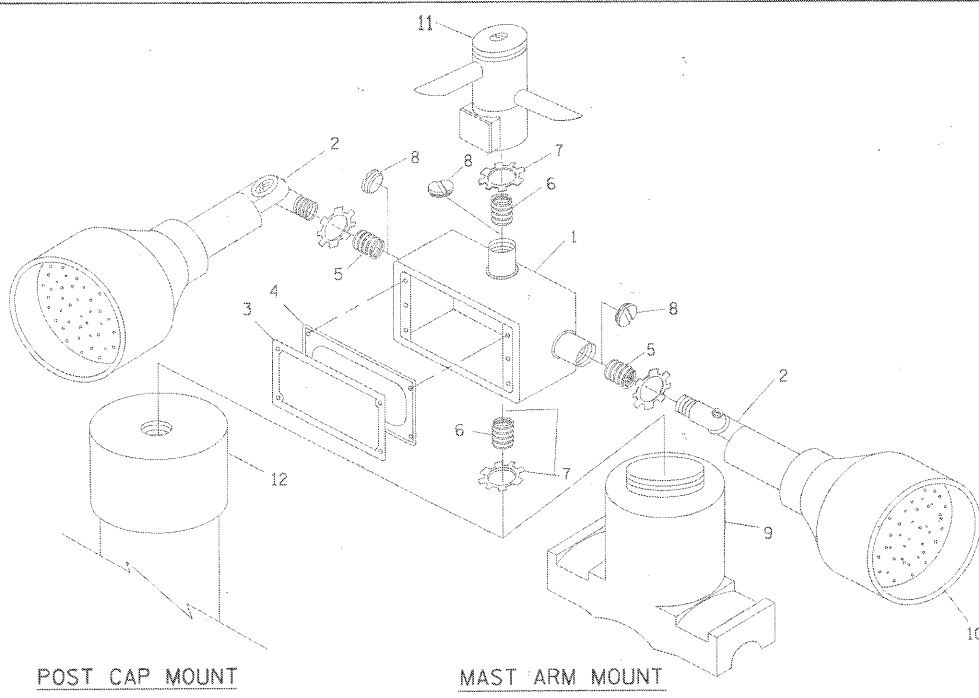
TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



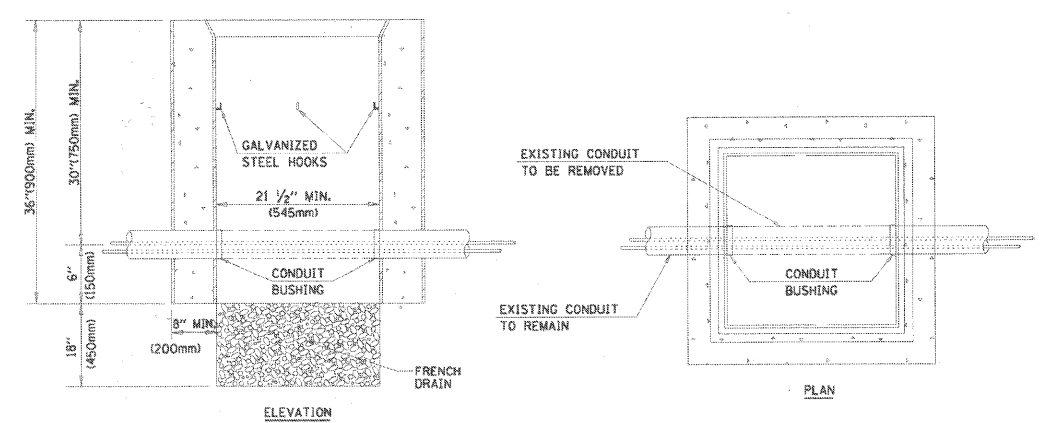
MODIFY EXISTING TYPE "D" FOUNDATION



ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\" (19 mm) CLOSE NIPPLE
7	3/4\" (19 mm) LOCKNUT
8	3/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

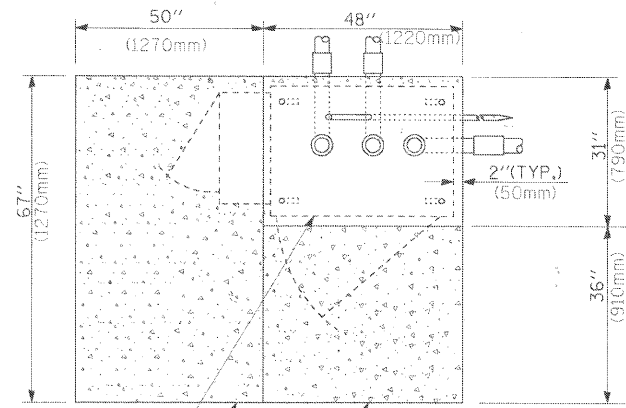
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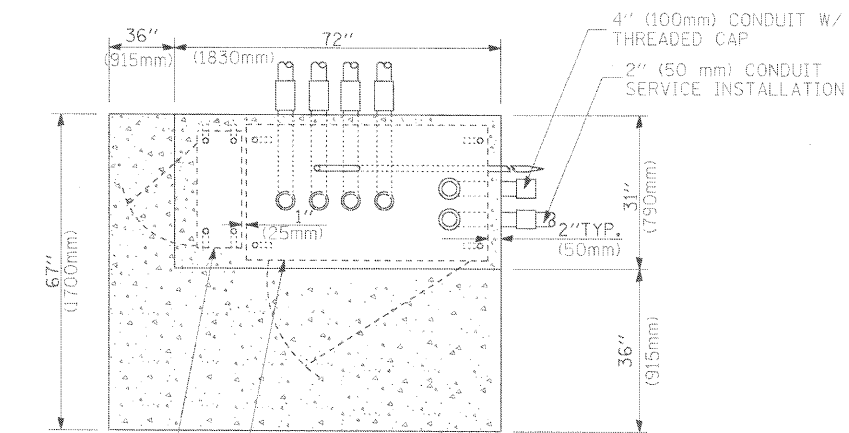
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PLOT DATE: 11/4/2009	DATE: 10-28-09	REVISED:

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

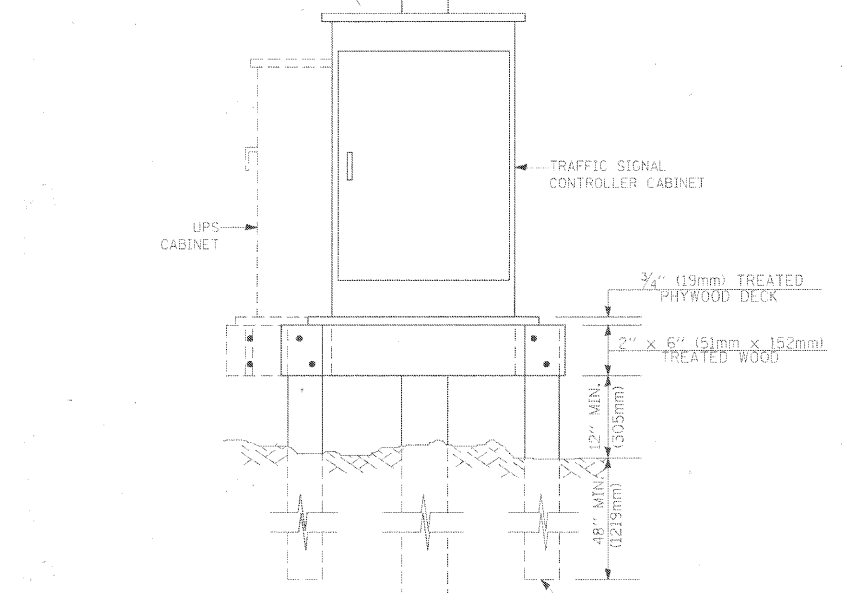
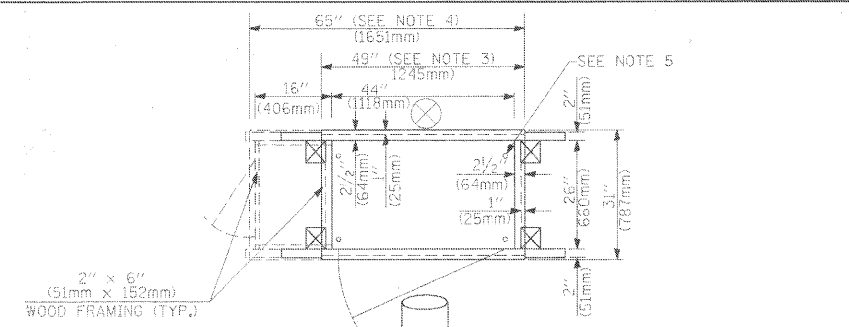
DISTRICT ONE		F.A.P. RTE. 374	SECTION 10-0011-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 45
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		SCALE: SHEET NO. 4 OF 7 SHEETS STA. TO STA.		CONTRACT NO. 63622		
		FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		



CONTROLLER CABINET BASE
EXISTING APRON
PROPOSED APRON
TOP VIEW

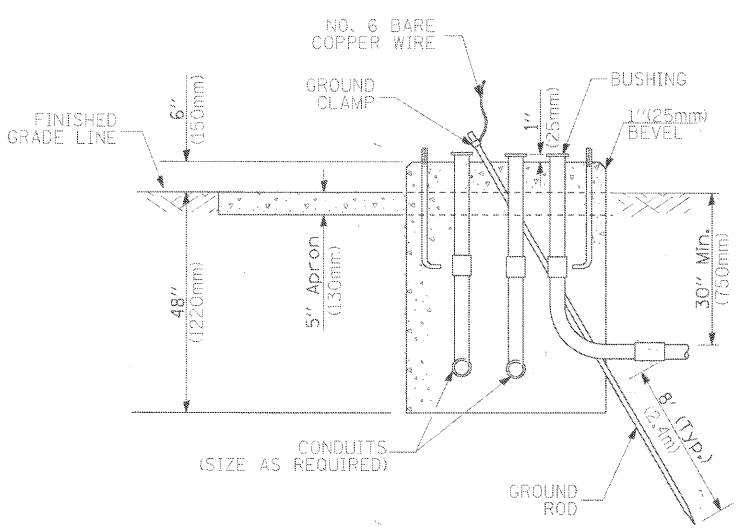


UPS CABINET BASE
CONTROLLER CABINET BASE
APRON
TOP VIEW

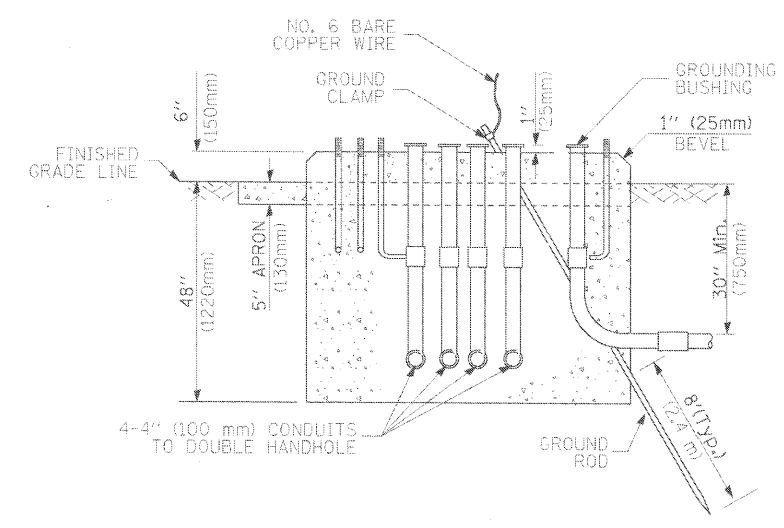


- NOTES:**
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET 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



TYPE D FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET



TYPE C FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET

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	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

COMPANY NAME: HRGreen.com
PROJECT CONTACT: #PROJECT CONTACT
CLIENT: #CLIENT
FILE NAME: #FILE NAME
PLOT DRIVER: #PLOT DRIVER
PEN TABLE: #PEN TABLE

HRGreen.com
Illinois Professional Design Firm
#194-001322

USER NAME = Dharke	DESIGNED - DAG	REVISED -
PLOT SCALE =	DRAWN - BCK	REVISED -
PLOT DATE = 7/28/2011	CHECKED - DAD	REVISED -
	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

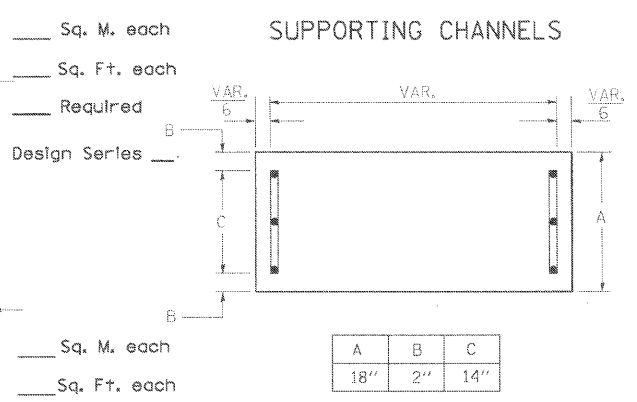
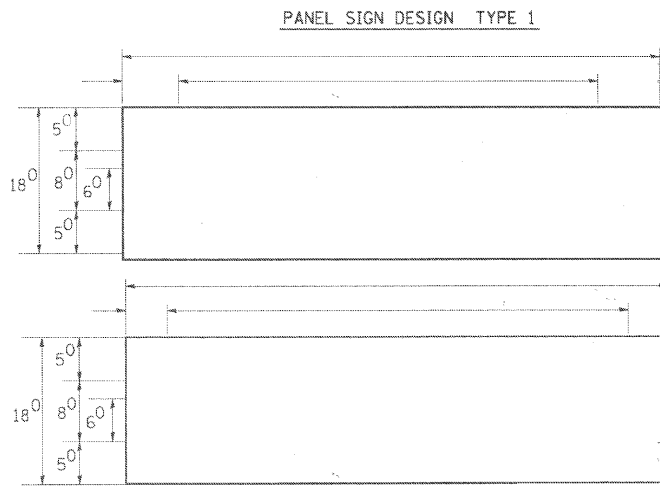
F.A.P. RTE. 374	SECTION 10-0011-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 46
SCALE: SHEET NO. 5 OF 7 SHEETS STA. TO STA.		CONTRACT NO. 63622		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

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			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
GUY WIRE				ABANDON ITEM				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				EXISTING INTERSECTION LOOP DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD SYMBOLS			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				EXISTING		PROPOSED	
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				RAILROAD CANTILEVER MAST ARM			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				FLASHING SIGNAL			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSING GATE			
MICROWAVE VEHICLE SENSOR								CROSSBUCK			
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 CLIENT: HRGreen
 DATE PLOTTED: 11/24/2009
 PLOT DRIVER: Standard-Trans.tbl
 PEN TABLE: Standard-Trans.tbl

	HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = bauerdl DESIGNED - DAG/BCK DRAWN - BCK CHECKED - DAD DATE - 10-28-09	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 374 SECTION 10-00111-00-LS COUNTY COOK TOTAL SHEETS 62 SHEET NO. 47	CONTRACT NO. 63622 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
SCALE:		SHEET NO. 6 OF 7 SHEETS		STA. TO STA.			



Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

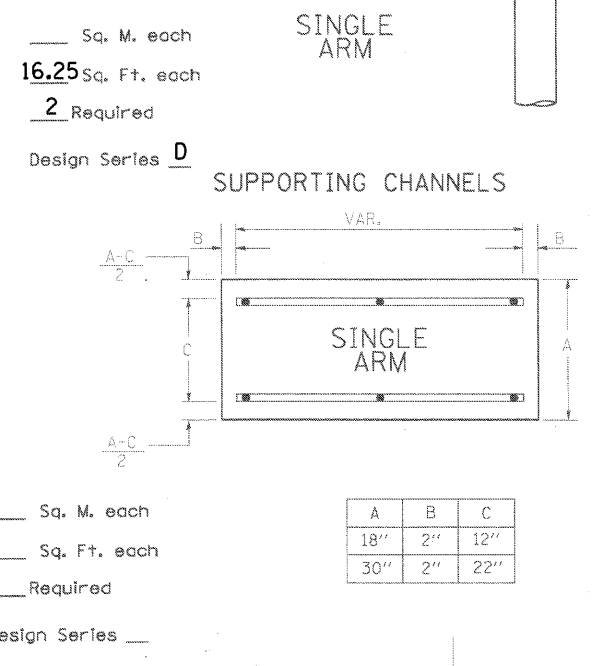
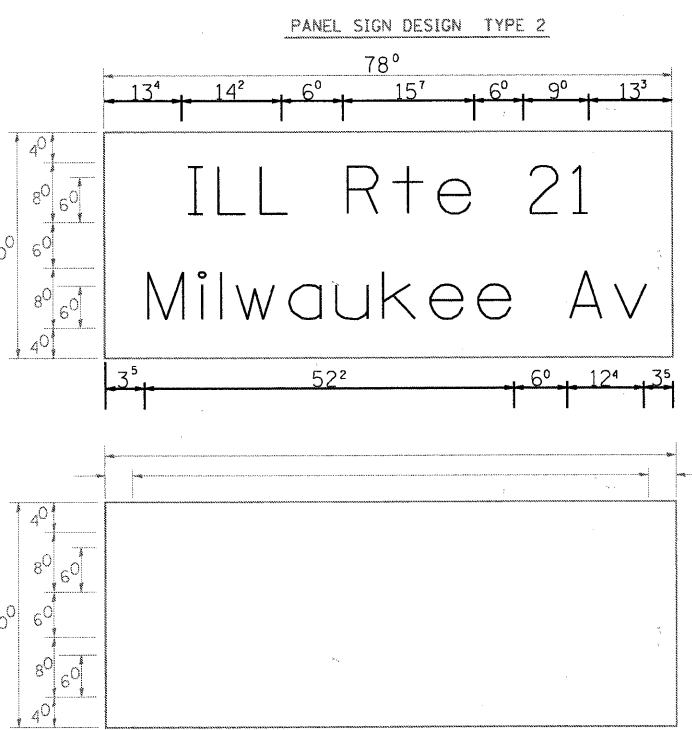
EXAMPLE, 2³ DENOTES $\frac{3}{8}$

SERIES	SECOND LETTER															
	acde		bhikl		f w		j		s t		v y		x		z	
	g	o	q	m	n	p	r	u								
A W X	12	14	14	15	12	14	06	10	11	14	06	10	11	12	12	14
B	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16	17
C E G	14	15	20	21	12	14	06	10	12	14	12	14	14	15	14	15
D O Q R	14	15	20	21	14	15	06	10	12	14	12	14	14	15	14	15
F	05	06	14	15	06	10	05	06	06	10	06	10	06	10	11	12
H I M N	20	21	22	24	20	21	14	15	16	17	16	17	20	21	20	21
J U	20	21	20	21	16	17	14	15	16	17	16	17	16	17	20	21
K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14
P	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12	14
S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
T	11	12	16	17	06	10	06	10	11	12	11	12	11	12	12	14
V	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14
Y	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12
Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		LETTERS	6 INCH LOWER CASE LETTERS	
	C	D	C	D		C	D
A	3 ⁶	5 ⁰	5 ⁰	6 ⁵	a	3 ⁵	4 ²
B	3 ²	4 ⁰	4 ³	5 ³	b	3 ⁵	4 ²
C	3 ²	4 ⁰	4 ³	5 ³	c	3 ⁵	4 ¹
D	3 ²	4 ⁰	4 ³	5 ³	d	3 ⁵	4 ²
E	3 ⁰	3 ⁵	4 ⁰	4 ⁷	e	3 ⁵	4 ²
F	3 ⁰	3 ⁵	4 ⁰	4 ⁷	f	2 ³	2 ⁶
G	3 ²	4 ⁰	4 ³	5 ³	g	3 ⁵	4 ²
H	3 ²	4 ⁰	4 ³	5 ³	h	3 ⁵	4 ²
I	0 ⁷	0 ⁷	1 ¹	1 ²	i	1 ¹	1 ¹
J	3 ⁰	3 ⁶	4 ⁰	5 ⁰	j	2 ⁰	2 ²
K	3 ²	4 ¹	4 ³	5 ⁴	k	3 ⁵	4 ²
L	3 ⁰	3 ⁵	4 ⁰	4 ⁷	l	1 ¹	1 ¹
M	3 ⁷	4 ⁵	5 ¹	6 ¹	m	6 ⁰	7 ⁰
N	3 ²	4 ⁰	4 ³	5 ³	n	3 ⁵	4 ²
O	3 ⁴	4 ²	4 ⁵	5 ⁵	o	3 ⁶	4 ³
P	3 ²	4 ⁰	4 ³	5 ³	p	3 ⁵	4 ²
Q	3 ⁴	4 ²	4 ⁵	5 ⁵	q	3 ⁵	4 ²
R	3 ²	4 ⁰	4 ³	5 ³	r	2 ⁶	3 ²
S	3 ²	4 ⁰	4 ³	5 ³	s	3 ⁶	4 ²
T	3 ⁰	3 ⁵	4 ⁰	4 ⁷	t	2 ⁷	3 ²
U	3 ²	4 ⁰	4 ³	5 ³	u	3 ⁵	4 ²
V	3 ⁵	4 ⁴	4 ⁷	6 ⁰	v	4 ²	4 ⁷
W	4 ⁴	5 ²	6 ⁰	7 ⁰	w	5 ⁵	6 ⁴
X	3 ⁴	4 ⁰	4 ⁵	5 ³	x	4 ⁴	5 ¹
Y	3 ⁶	5 ⁰	5 ⁰	6 ⁶	y	4 ⁶	5 ³
Z	3 ²	4 ⁰	4 ³	5 ³	z	3 ⁶	4 ³

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS



Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

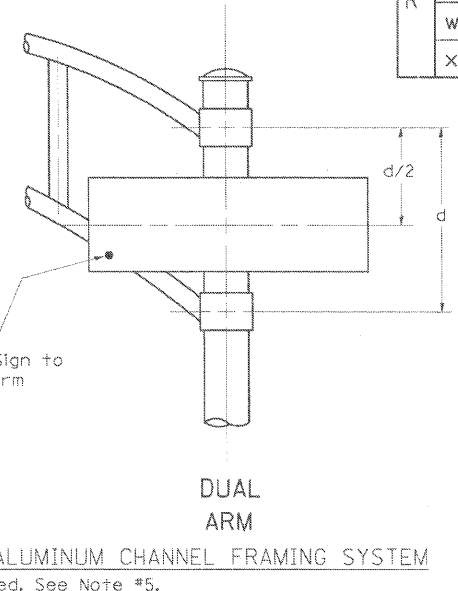
SERIES	SECOND LETTER															
	acde		bhikl		f w		j		s t		v y		x		z	
	g	o	q	m	n	p	r	u								
adhgi	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
lmnqu																
bfkops	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
ce	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
t z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
v y	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
x	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number To Number
Spacing Chart 8 Inch Series "C & D"

SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
1	20	21	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21
2 3 4	14	15	14	15	14	15	12	14	12	14	14	15	14	15	11	12	16	17	14	15
5	14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
6	16	17	14	15	14	15	12	15	12	14	14	15	14	15	11	12	14	15	14	15
7	12	14	12	14	14	15	12	15	05	06	12	14	14	15	11	12	14	15	12	14
8	16	17	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 ²	1 ⁴	1 ⁵	2 ⁰
2	3 ²	4 ⁰	4 ³	5 ³
3	3 ²	4 ⁰	4 ³	5 ³
4	3 ⁵	4 ³	4 ⁷	5 ⁷
5	3 ²	4 ⁰	4 ³	5 ³
6	3 ²	4 ⁰	4 ³	5 ³
7	3 ²	4 ⁰	4 ³	5 ³
8	3 ²	4 ⁰	4 ³	5 ³
9	3 ²	4 ⁰	4 ³	5 ³
0	3 ⁴	4 ²	4 ⁵	5 ⁵

- 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 HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
 - THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
 - ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
 - SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
 - * J.O. HERBERT CO. 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: PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

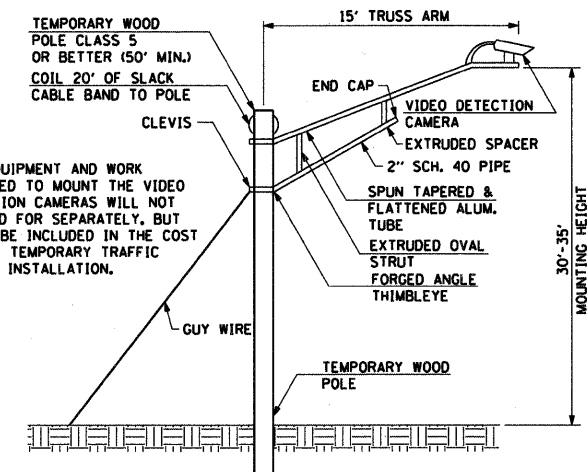


SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

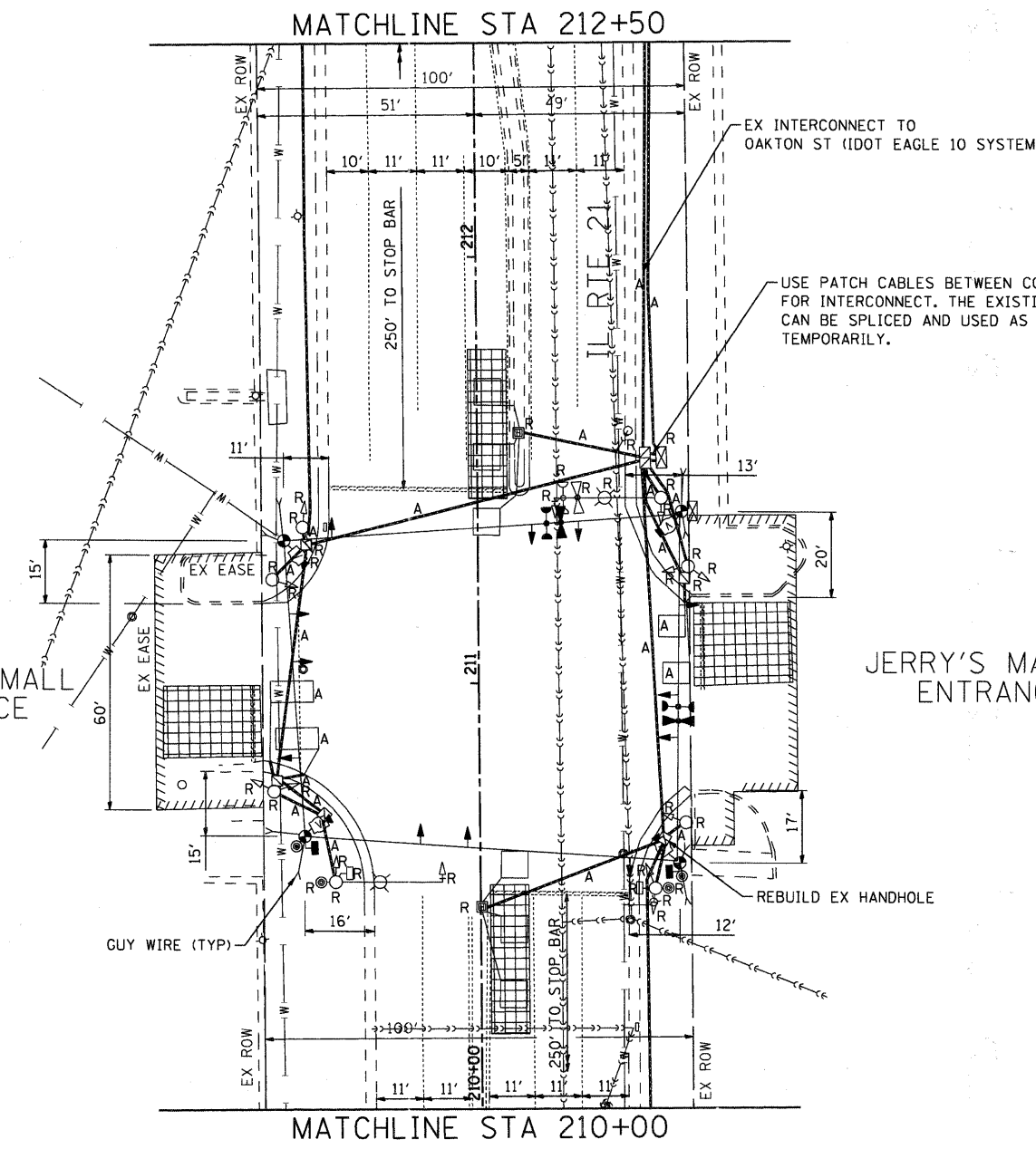
COMPANY NAME: HRGreen.com
PROJECT CONTACT: Illinois Professional Design Firm #184-001322
CLIENT: 7/20/2011 4:08:34 PM
FILE NAME: 86100065-sig0101.dgn
PLOT DRIVER: pdf.plt
PLOT TABLE: Standard-trans.tbl

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL. AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.



TEMPORARY VIDEO DETECTION CAMERA MOUNTING DETAIL



CONSTRUCTION NOTES

ALL TEMPORARY PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED WHEN EXISTING PAVEMENT IS REMOVED AND REMAINED BAGGED UNTIL PAVEMENT IS RESTORED.

FINAL DETECTION CAMERA POSITIONS TO BE DETERMINED BY THE CONTRACTOR TO INSURE CORRECT ZONE COVERAGE, INCLUDING FAR-OUT DETECTION IS WORKING PROPERLY.

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED LAWNS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE

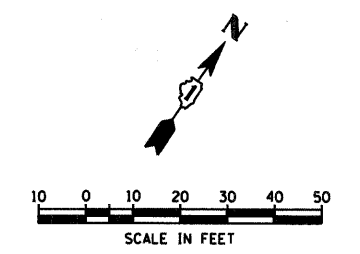
EXISTING LIGHT DETECTOR AMPLIFIER, INDUCTIVE LOOP DETECTORS AND ALL OTHER CONTROL EQUIPMENT AND ALL OTHER CONTROL EQUIPMENT SHALL BE RE-USED FOR THE PERMANENT INSTALLATION.

NOTE

THE EXISTING INTERCONNECT CONDUIT AND CABLE (IDOT EAGLE 10 SYSTEM) WILL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION UNTIL TEMPORARY SIGNALS ARE REMOVED AND THE NEW INTERCONNECT FIBER CABLE IS CONNECTED.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

6	EACH	SIGNAL POST
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
1	EACH	CONTROLLER AND CABINET
4	EACH	SIGNAL HEAD, 1-FACE, 3 SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 5 SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 2-3 SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION
2	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
2	EACH	PEDESTRIAN PUSHBUTTON
1	EACH	CONFIRMATION BEACON
1	EACH	EMERGENCY VEHICLE LIGHT DETECTOR



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: J. J. S. (773) 221-4184
 DATE PLOTTED: 7/20/2011 4:08:44 PM
 FILE NAME: 86100065-sigtemp01.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl

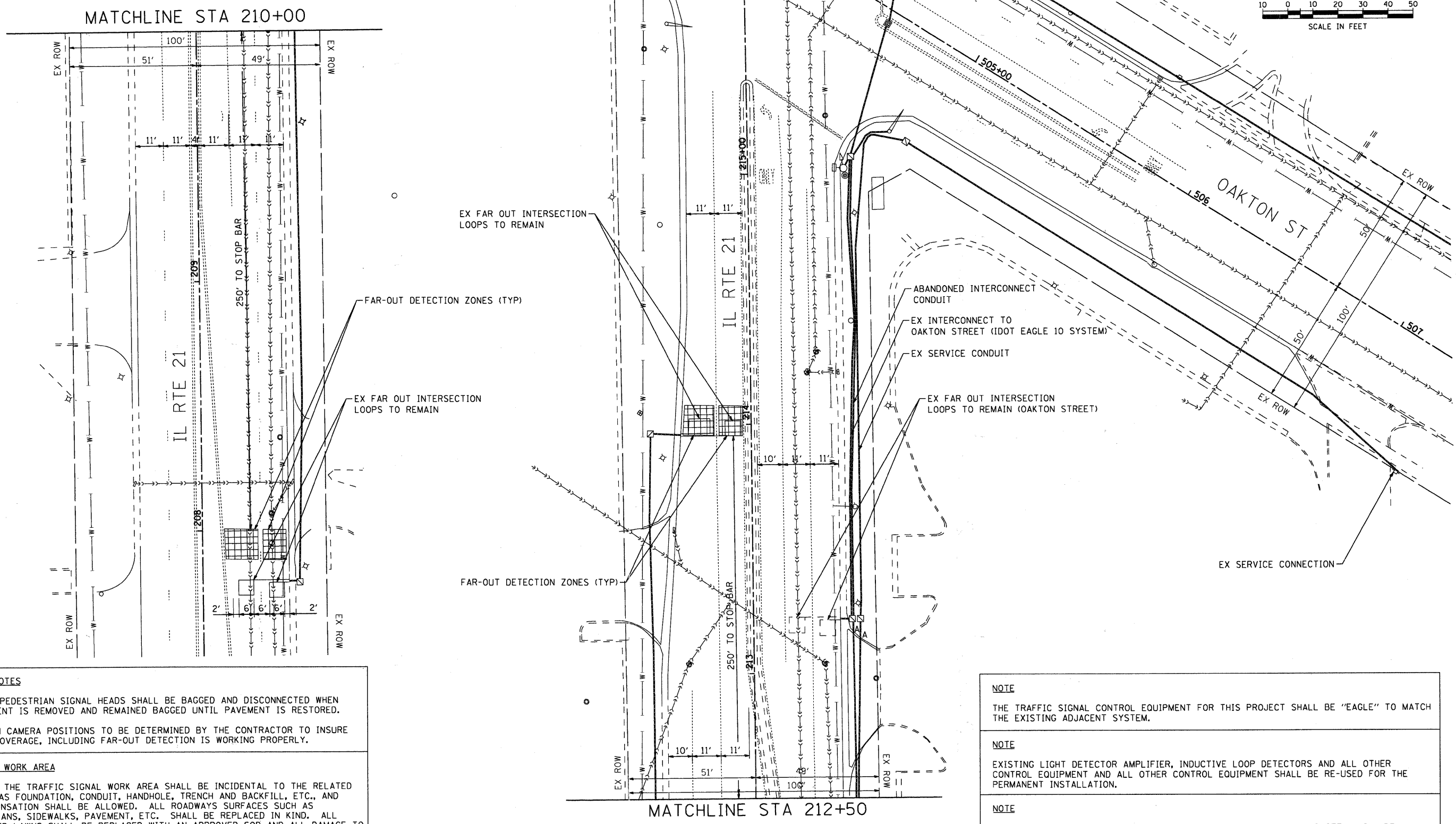
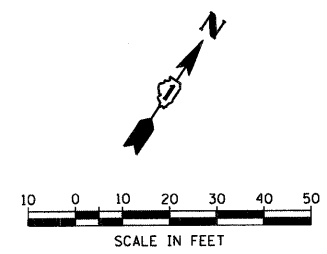


USER NAME = Chortke	DESIGNED - JJS	REVISED -
PLOT SCALE = 1"=20'	DRAWN - JJS	REVISED -
PLOT DATE = 7/20/2011	CHECKED - PAM	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
 MILWAUKEE AVE AT OAK MILL MALL ENTRANCE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	49
CONTRACT NO.			63622	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CONSTRUCTION NOTES

ALL TEMPORARY PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED WHEN EXISTING PAVEMENT IS REMOVED AND REMAINED BAGGED UNTIL PAVEMENT IS RESTORED.

FINAL DETECTION CAMERA POSITIONS TO BE DETERMINED BY THE CONTRACTOR TO INSURE CORRECT ZONE COVERAGE, INCLUDING FAR-OUT DETECTION IS WORKING PROPERLY.

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED LAWNS SHALL BE SEEDDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE

EXISTING LIGHT DETECTOR AMPLIFIER, INDUCTIVE LOOP DETECTORS AND ALL OTHER CONTROL EQUIPMENT AND ALL OTHER CONTROL EQUIPMENT SHALL BE RE-USED FOR THE PERMANENT INSTALLATION.

NOTE

THE EXISTING INTERCONNECT CONDUIT AND CABLE (IDOT EAGLE 10 SYSTEM) WILL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION UNTIL TEMPORARY SIGNALS ARE REMOVED AND THE NEW INTERCONNECT FIBER CABLE IS CONNECTED.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT_CONTACT1
 CLIENT: #CLIENT1
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 PLOT DRIVER: pdw32prt
 PEN TABLE: standard.ctb



USER NAME = Char-ke	DESIGNED - JJS	REVISED -
PLOT SCALE = 1"=20'	DRAWN - JJS	REVISED -
PLOT DATE = 7/20/2011	CHECKED - PAM	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION
 AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
 MILWAUKEE AVE AT OAK MILL MALL ENTRANCE**

SCALE: 1"=20' SHEET NO. 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 50
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63622				

CONSTRUCTION NOTES

ALL TEMPORARY PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED WHEN EXISTING PAVEMENT IS REMOVED AND REMAINED BAGGED UNTIL PAVEMENT IS RESTORED.

FINAL DETECTION CAMERA POSITIONS TO BE DETERMINED BY THE CONTRACTOR TO INSURE CORRECT ZONE COVERAGE, INCLUDING FAR-OUT DETECTION IS WORKING PROPERLY.

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED LAWNS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE

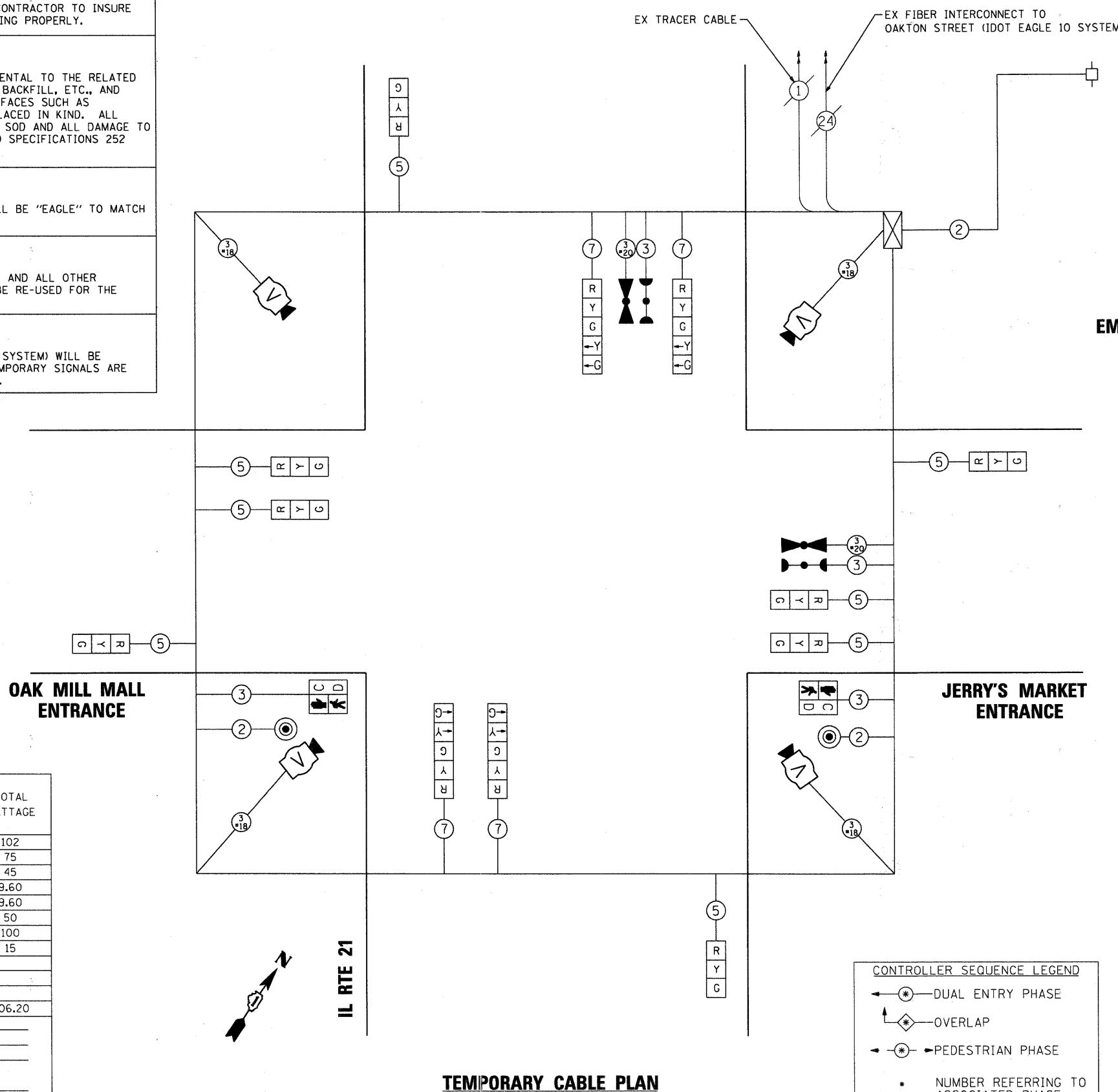
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE

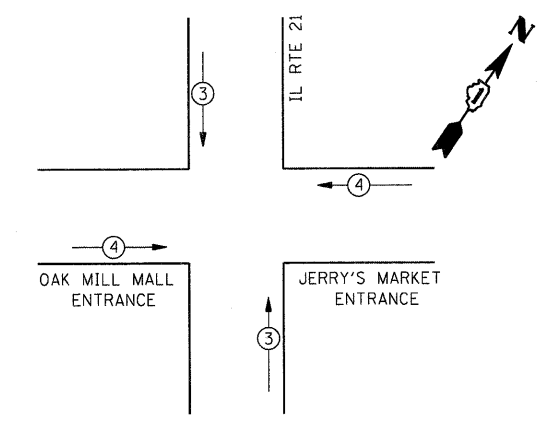
EXISTING LIGHT DETECTOR AMPLIFIER, INDUCTIVE LOOP DETECTORS AND ALL OTHER CONTROL EQUIPMENT AND ALL OTHER CONTROL EQUIPMENT SHALL BE RE-USED FOR THE PERMANENT INSTALLATION.

NOTE

THE EXISTING INTERCONNECT CONDUIT AND CABLE (IDOT EAGLE 10 SYSTEM) WILL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION UNTIL TEMPORARY SIGNALS ARE REMOVED AND THE NEW INTERCONNECT FIBER CABLE IS CONNECTED.

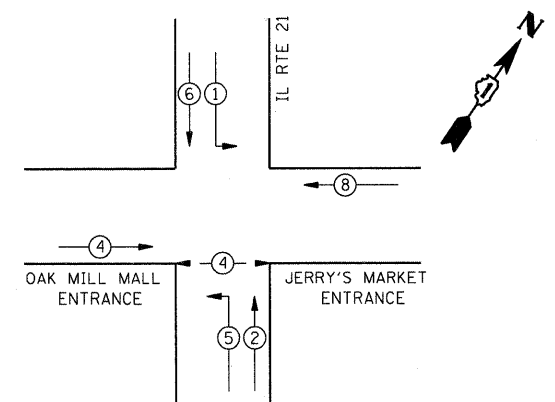


TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↓	↑

TEMPORARY CONTROLLER SEQUENCE



CONTROLLER SEQUENCE LEGEND	
← * →	DUAL ENTRY PHASE
↑ * ↓	OVERLAP
← * →	PEDESTRIAN PHASE
*	NUMBER REFERRING TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW (YELLOW)	8		12	0.10	9.60
ARROW (GREEN)	8		12	0.10	9.60
PEDESTRIAN SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		15	1.00	15
TOTAL =					406.20

ENERGY COSTS TO: VILLAGE OF NILES
1000 CIVIC CENTER DRIVE
NILES, IL 60714

ENERGY SUPPLY CONTACT: MAUREEN RAYE
PHONE: (847) 816-5492
COMPANY: COMMONWEALTH EDISON

TEMPORARY CABLE PLAN

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM MILWAUKEE AVE AT OAK MILL MALL ENTRANCE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	51
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

COMPANY NAME: HRGreen.com
PROJECT CONTACT: HRGreen.com
CLIENT: HRGreen.com
DATE PLOTTED: 7/20/2011 4:16:53 PM
FILE NAME: 86100065-sfgcab-temp01.dgn
PLOT DRIVER: pldrvr
PEN TABLE: standard-ar-trans.tbl



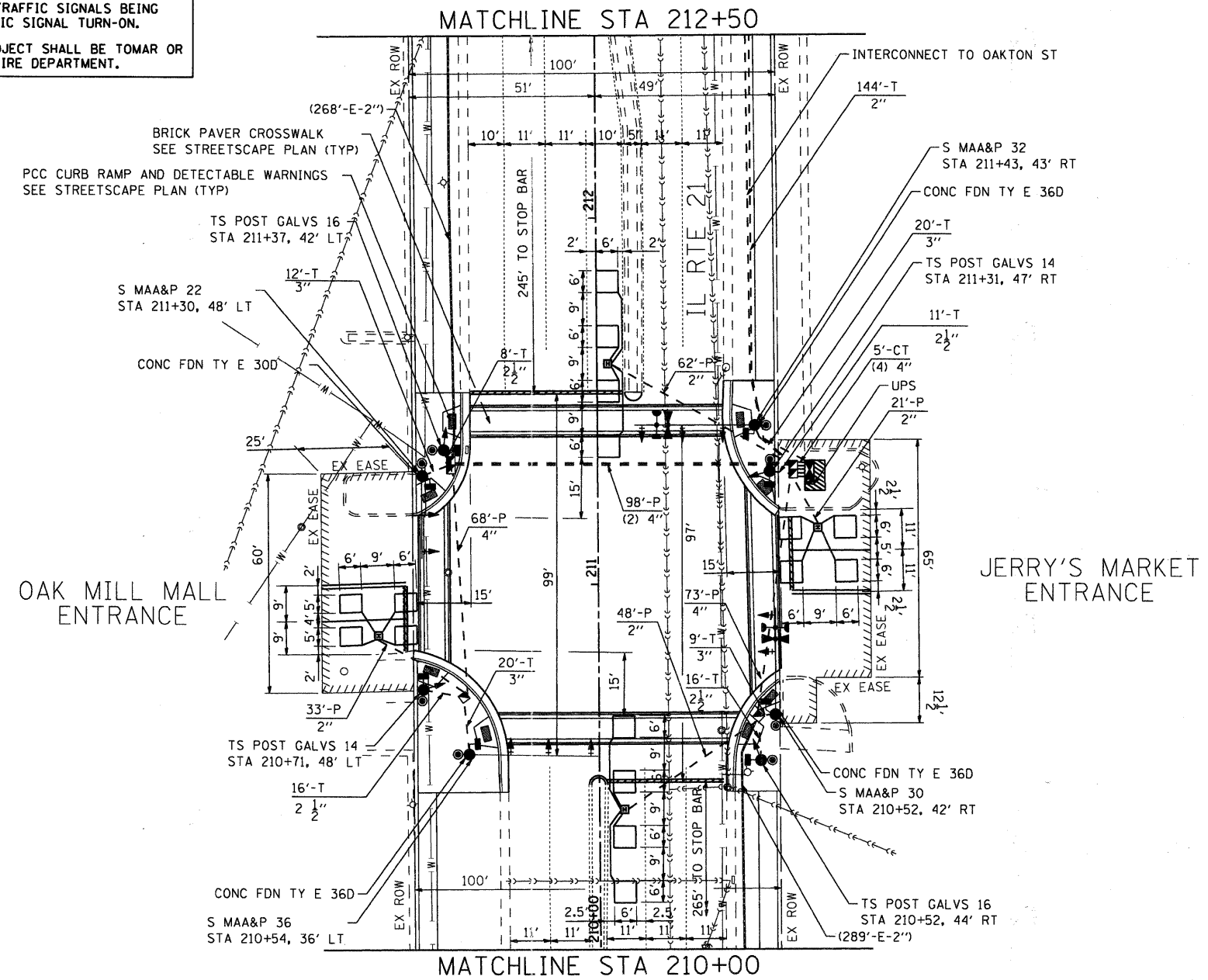
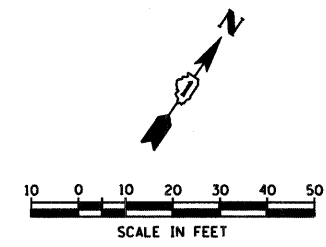
USER NAME	DESIGNED	REVISIONS
CHar-ke	JJS	-
	JJS	-
	PAM	-
		-

DESIGNED	CHECKED	DATE
JJS	PAM	

REVISIONS	DATE
-	
-	
-	

SCALE: NTS SHEET NO. 3 OF 8 SHEETS STA. TO STA.

1. NEW LED CONFIRMATION DETECTORS AND BEACONS SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS FOR EVP. THIS WORK SHALL BE INCLUDED IN THE COST FOR THE UNINTERRUPTIBLE POWER SUPPLY.
2. ALL NEW TRAFFIC SIGNAL EQUIPMENT INCLUDING POSTS AND MAST ARMS SHALL ARRIVE AT THE PROJECT SITE WITH A BLACK FACTORY FINISH IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
3. STOP BARS ARE NOT TO BE PLACED PRIOR TO THE PROPOSED TRAFFIC SIGNALS BEING OPERATIONAL. THEY MUST BE IN PLACE AT THE TIME OF TRAFFIC SIGNAL TURN-ON.
4. THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE TOMAR OR AN APPROVED EQUAL AS REQUIRED BY THE VILLAGE OF NILES FIRE DEPARTMENT.



RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED LAWNS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT_CONTACT
 CLIENT: #CLIENT
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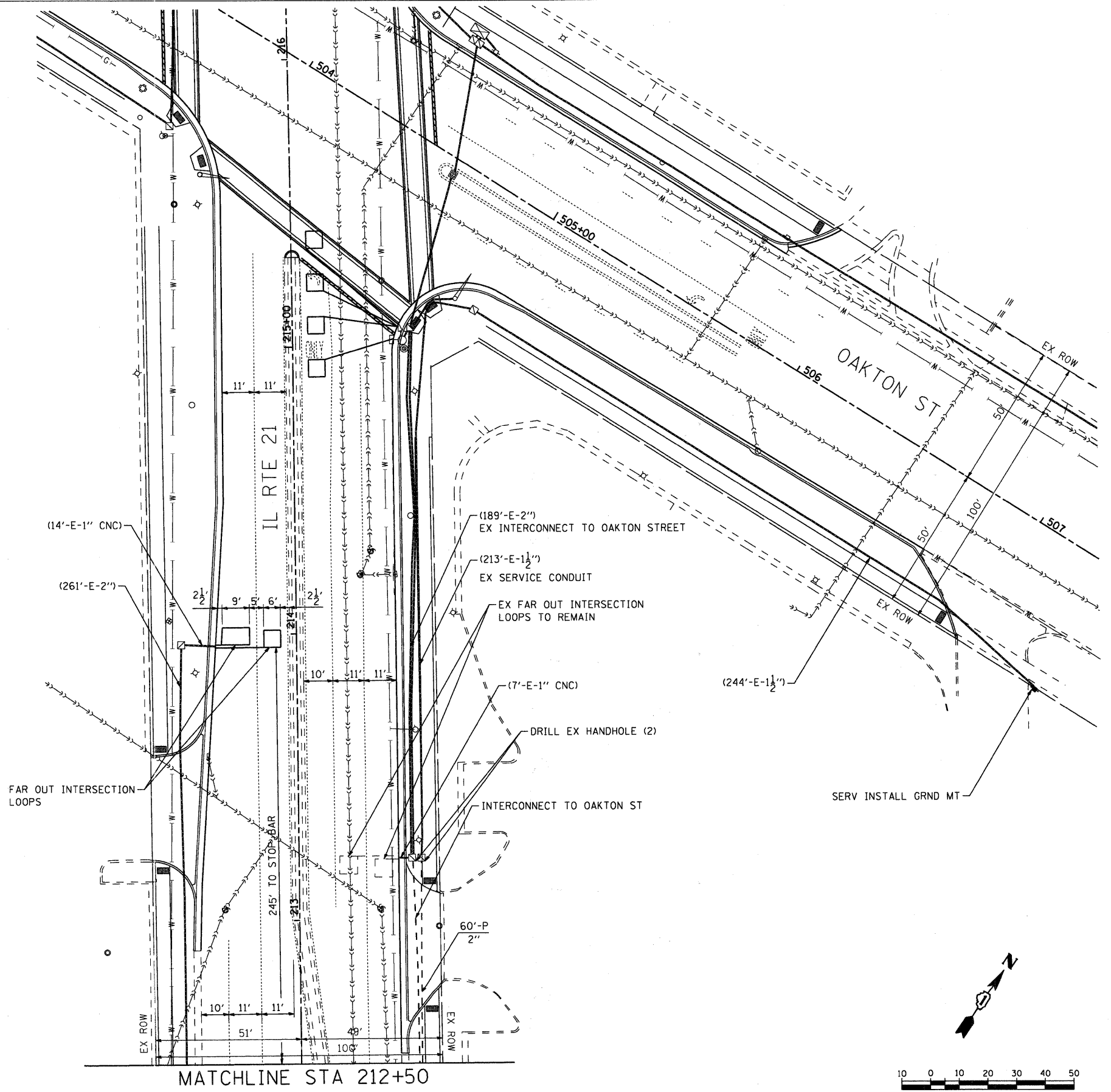
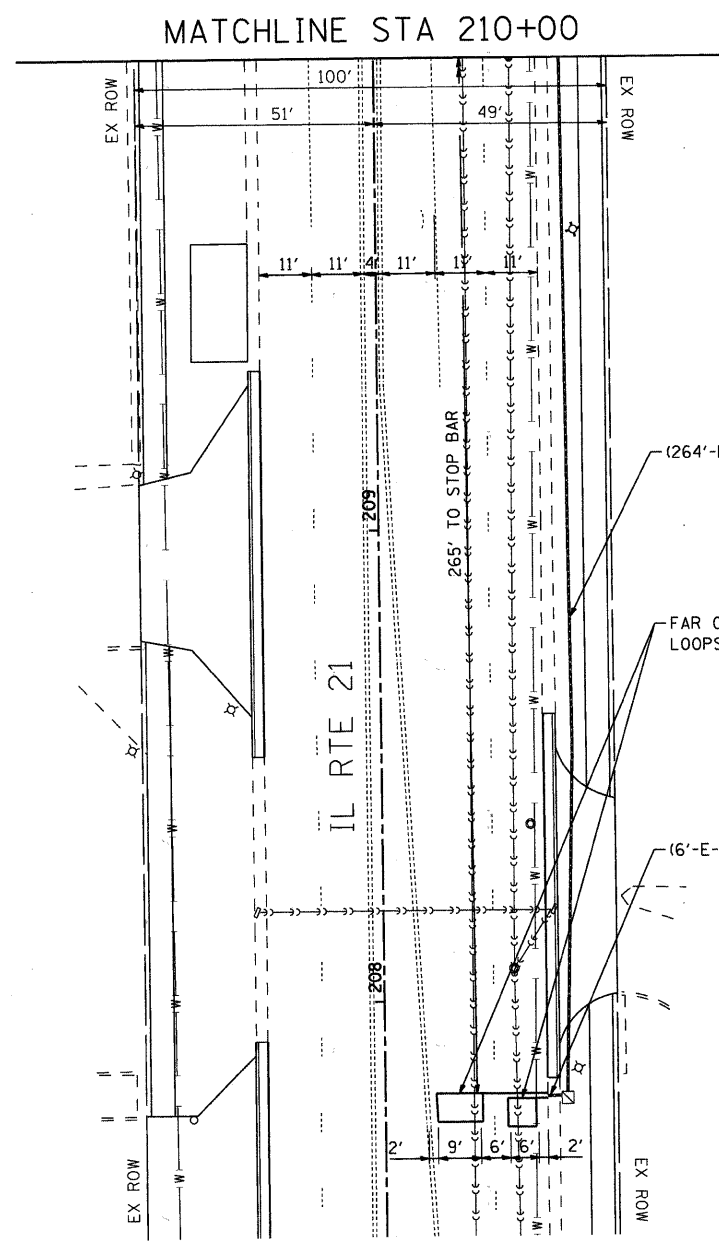


USER NAME = Charlotte	DESIGNED - JJS	REVISED -
PLOT SCALE = 1"=20'	DRAWN - JJS	REVISED -
PLOT DATE = 7/20/2011	CHECKED - PAM	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL INSTALLATION PLAN	
MILWAUKEE AVE AT OAK MILL MALL ENTRANCE	
SCALE: 1"=20'	SHEET NO. 4 OF 8 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	52
CONTRACT NO. 63622			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

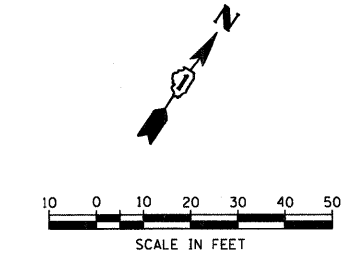


RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAYS SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED LAWNS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



COMPANY NAME: HRGreen.com
 PROJECT CONTACT: #PROJECT-CONTACT1
 CLIENT: #CLIENT1
 DATE PLOTTED: 7/20/2011 4:50:01 PM
 FILE NAME: 86100065-sig02.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: standard-trans.tbl



USER NAME = Char-ke	DESIGNED - JJS	REVISED -
PLOT SCALE = 1"=20'	DRAWN - JJS	REVISED -
PLOT DATE = 7/28/2011	CHECKED - PAM	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
 MILWAUKEE AVE AT OAK MILL MALL ENTRANCE**

SCALE: 1"=20' SHEET NO. 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	53
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63622	

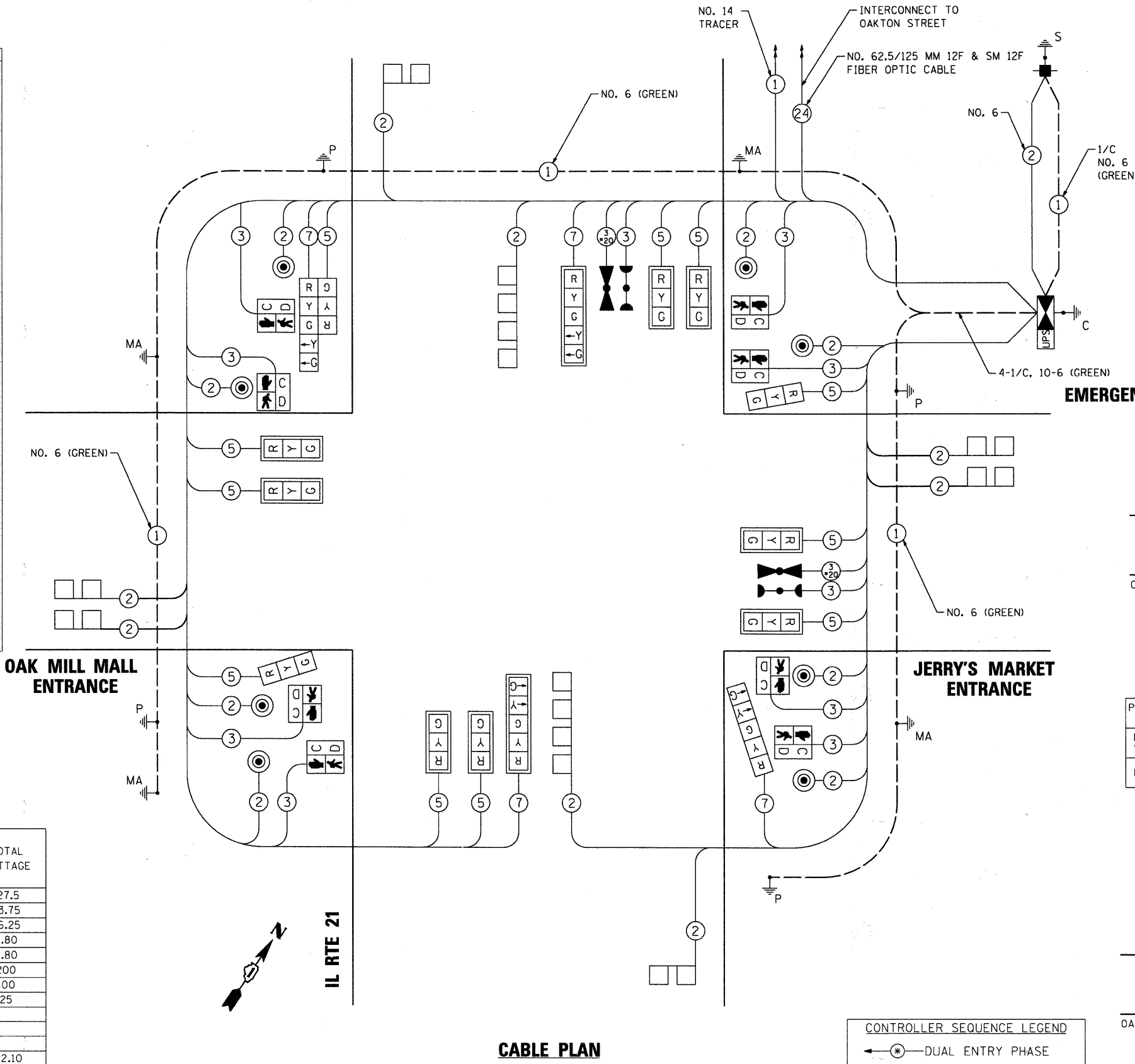
SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 2	SQ FT	32.5
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	144
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	51
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	61
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	22
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	164
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	337
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	236
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	2,592.0
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1,610.0
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2,191.5
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	783.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	674.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,726.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	33
DRILL EXISTING HANDHOLE	FOOT	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	10
DETECTOR LOOP, TYPE 1	FOOT	1,194
LIGHT DETECTOR	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5,724.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	124.5

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	15		17	0.50	127.5
(YELLOW)	15		25	0.25	93.75
(GREEN)	15		15	0.25	56.25
ARROW (YELLOW)	4		12	0.10	4.80
ARROW (GREEN)	4		12	0.10	4.80
PEDESTRIAN SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
UPS	1		25	1.00	25
TOTAL =					612.10

ENERGY COSTS TO: VILLAGE OF NILES
1000 CIVIC CENTER DRIVE
NILES, IL 60714

ENERGY SUPPLY CONTACT: MAUREEN RAYE
PHONE: (847) 816-5492
COMPANY: COMMONWEALTH EDISON



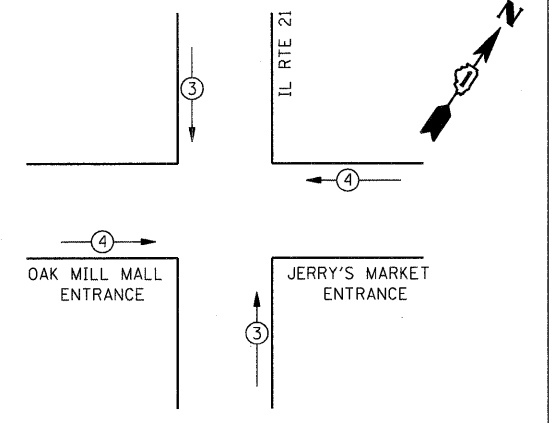
CABLE PLAN

NOTE:
THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

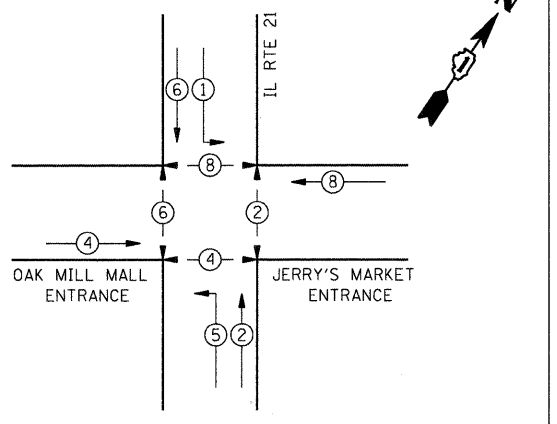
NOTE:
THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE TOMAR OR AN APPROVED EQUAL.

EMERGENCY VEHICLE PREEMPTION SEQUENCE

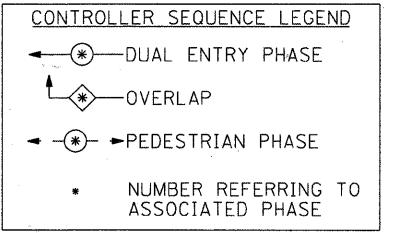


PROPOSED EMERGENCY VEHICLE PREEMPTORS		
PROPOSED EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	←

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



COMPANY NAME: HRGreen.com
PROJECT CONTACT: #PROJECT_CONTACT1
CLIENT: #CLIENT1
DATE PLOTTED: 7/20/2011 4:19:06 PM
FILE NAME: 86100065-sigcab01.dgn
PLOT DRIVER: pdfplot
PEN TABLE: standard-trans.tbl



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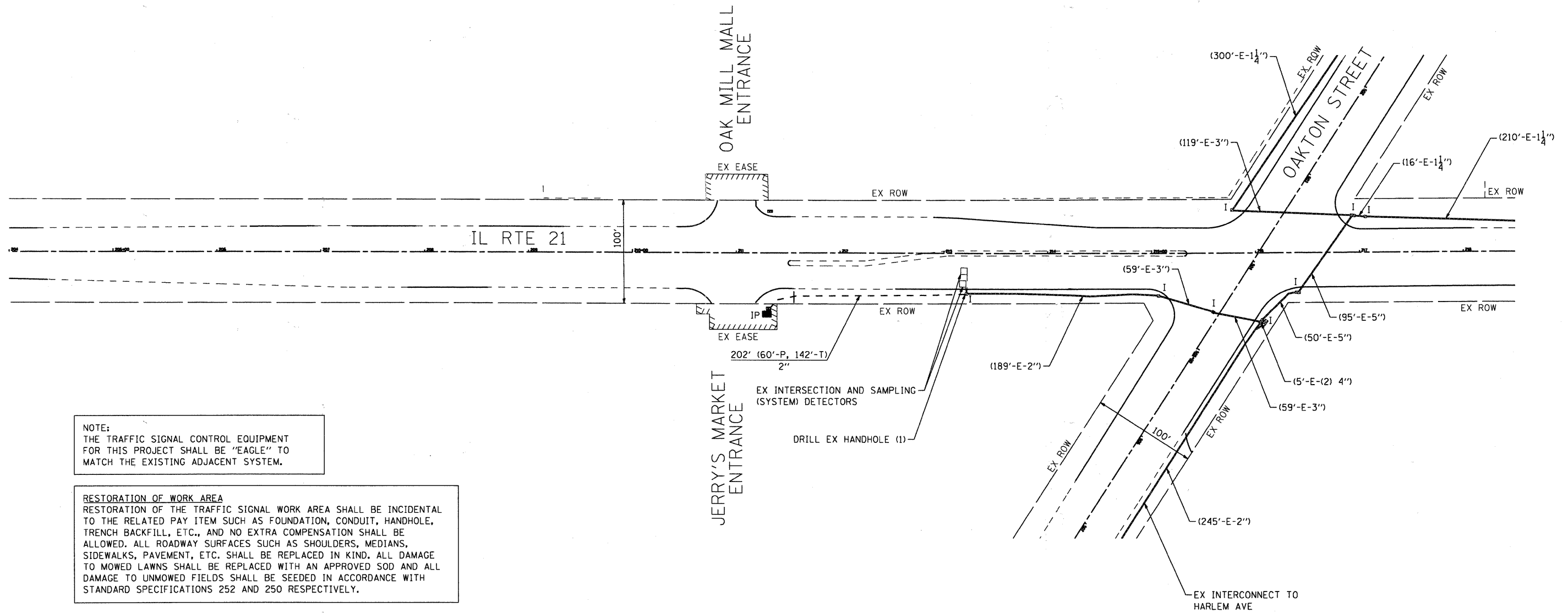
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
MILWAUKEE AVE AT OAK MILL MALL ENTRANCE

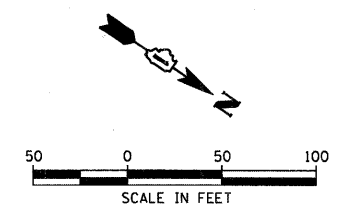
SCALE: NTS SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	54
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63622	



NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



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PROJECT CONTACT: #PROJECT_CONTACT/ Illinois Professional Design Firm #184-001322
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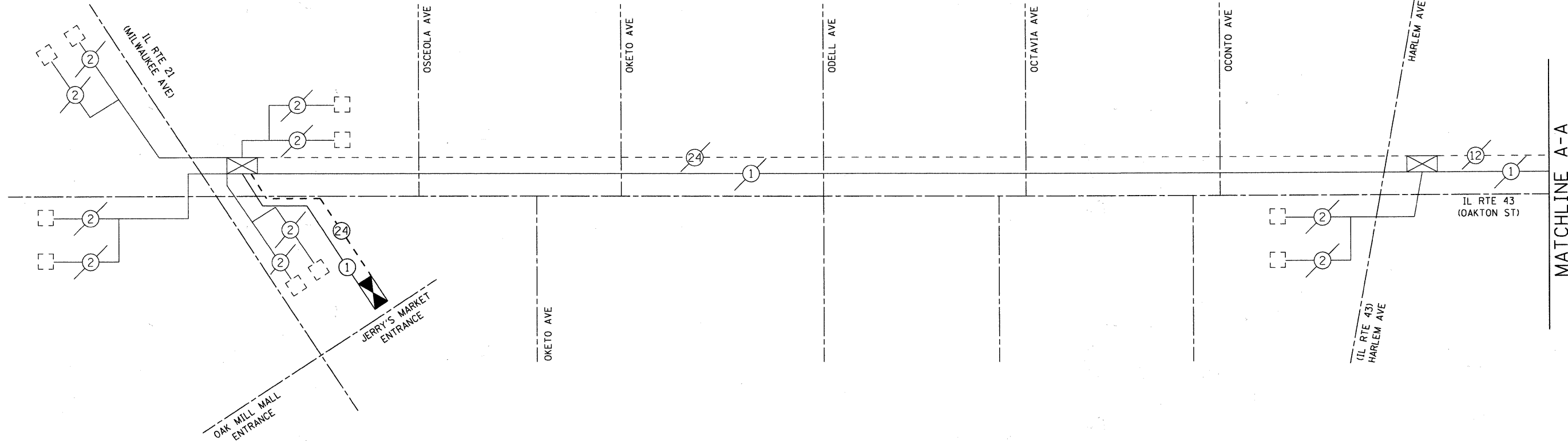
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN
OAK MILL MALL ENTRANCE TO OAKTON STREET**

SCALE: 1"=50' SHEET NO. 7 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	55
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 63622		

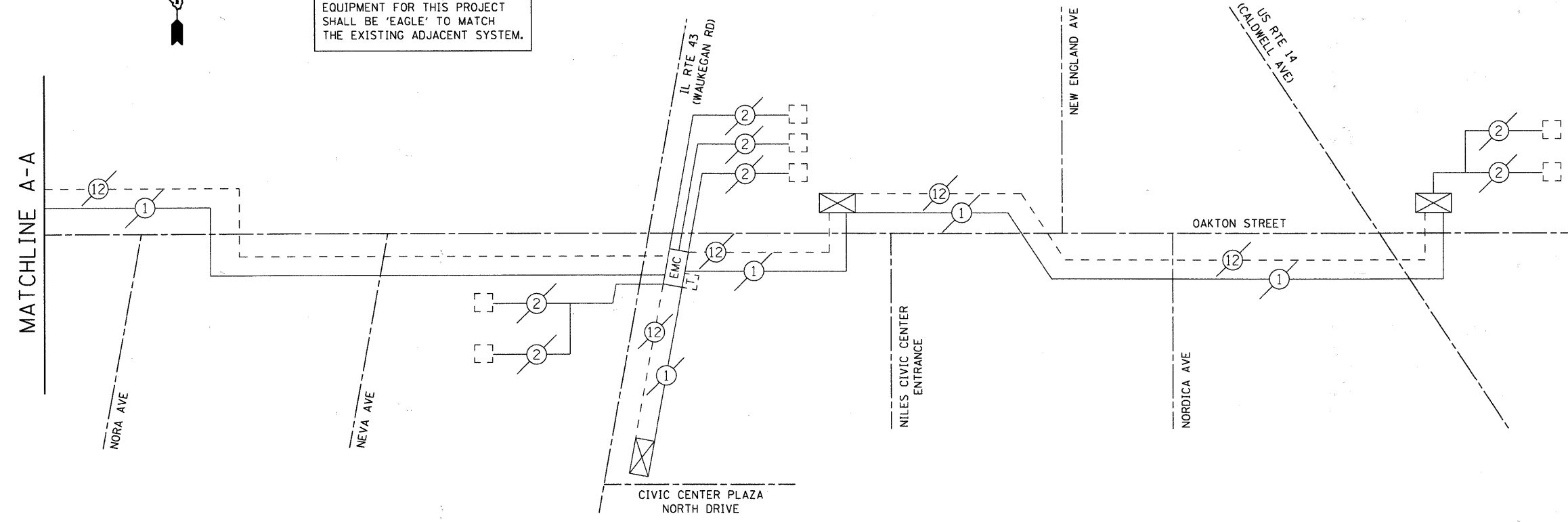


MATCHLINE A-A

NOTE:
THE TRAFFIC SIGNAL CONTROL
EQUIPMENT FOR THIS PROJECT
SHALL BE 'EAGLE' TO MATCH
THE EXISTING ADJACENT SYSTEM.

INTERCONNECT SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	142
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	60
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	138
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	578.5
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	552.5
DRILL EXISTING HANDHOLE	FOOT	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,079.0
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



MATCHLINE A-A

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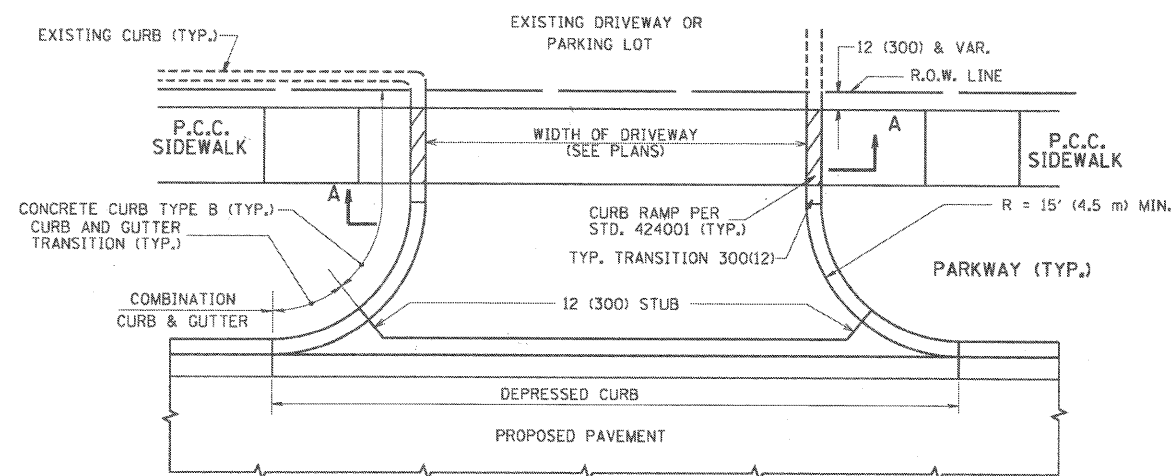
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

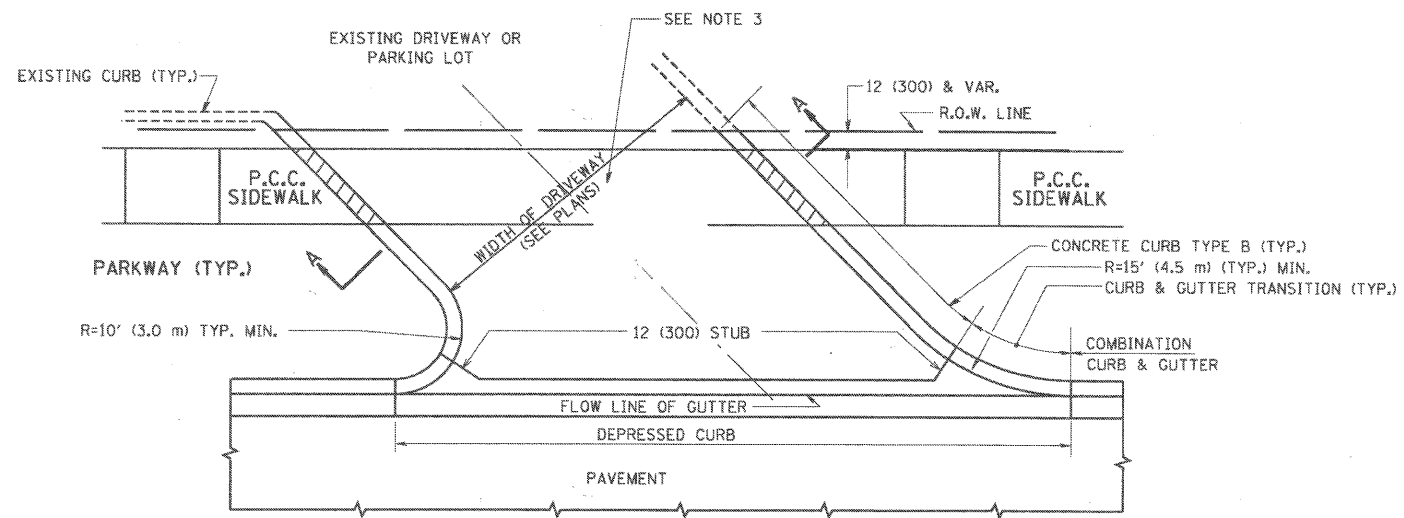
**INTERCONNECT SCHEMATIC
OAKTON STREET / OAK MILL MALL ENTRANCE
FROM IL RTE 21 TO US RTE 14**

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

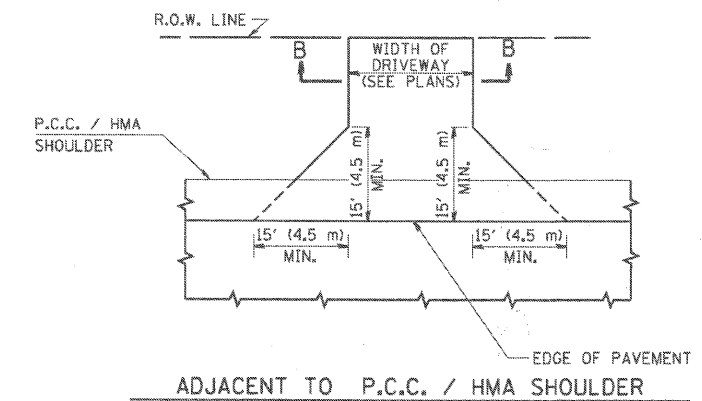
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 63622	



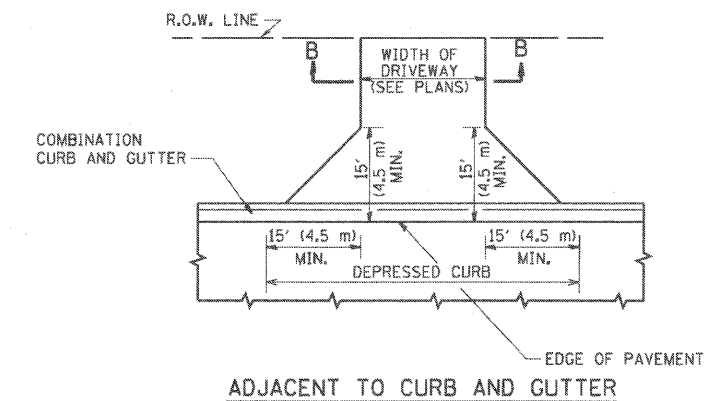
WITH CONCRETE CURB, TYPE B



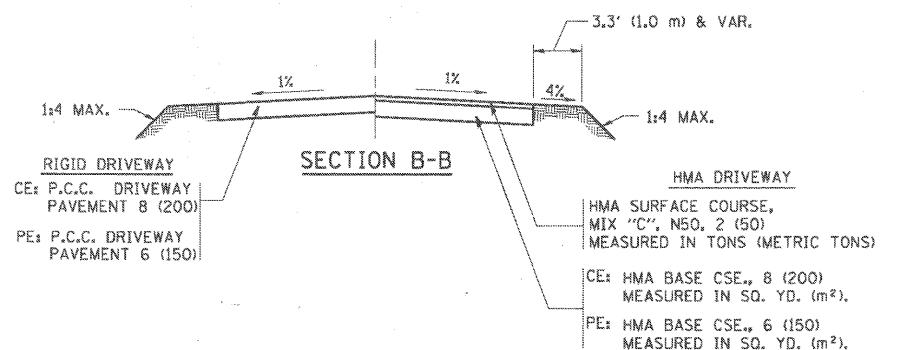
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

RIGID DRIVEWAY
 CE: P.C.C. DRIVEWAY PAVEMENT 8 (200)
 PE: P.C.C. DRIVEWAY PAVEMENT 6 (150)

HMA DRIVEWAY
 HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE CSE., 8 (200) MEASURED IN SQ. YD. (m²).
 PE: HMA BASE CSE., 6 (150) MEASURED IN SQ. YD. (m²).

RURAL FIELD ENTRANCE (FE)
 HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)
 AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

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

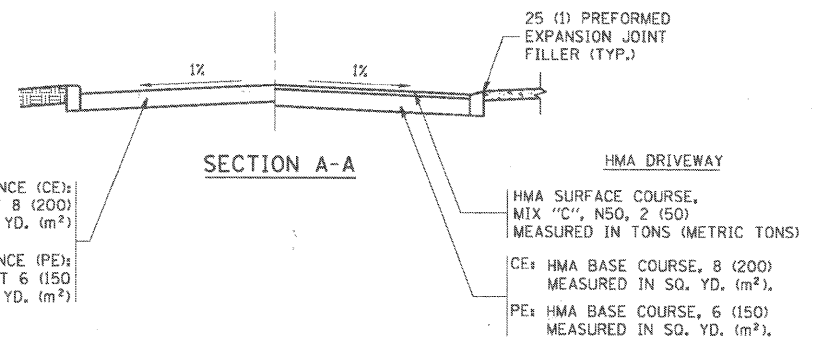
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

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

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

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



SECTION A-A

RIGID DRIVEWAY
 COMMERCIAL ENTRANCE (CE): P.C.C. DRIVEWAY PAVEMENT 8 (200) MEASURED IN SQ. YD. (m²)
 NON-COMMERCIAL ENTRANCE (PE): P.C.C. DRIVEWAY PAVEMENT 6 (150) MEASURED IN SQ. YD. (m²)

HMA DRIVEWAY
 HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE COURSE, 8 (200) MEASURED IN SQ. YD. (m²).
 PE: HMA BASE COURSE, 6 (150) MEASURED IN SQ. YD. (m²).

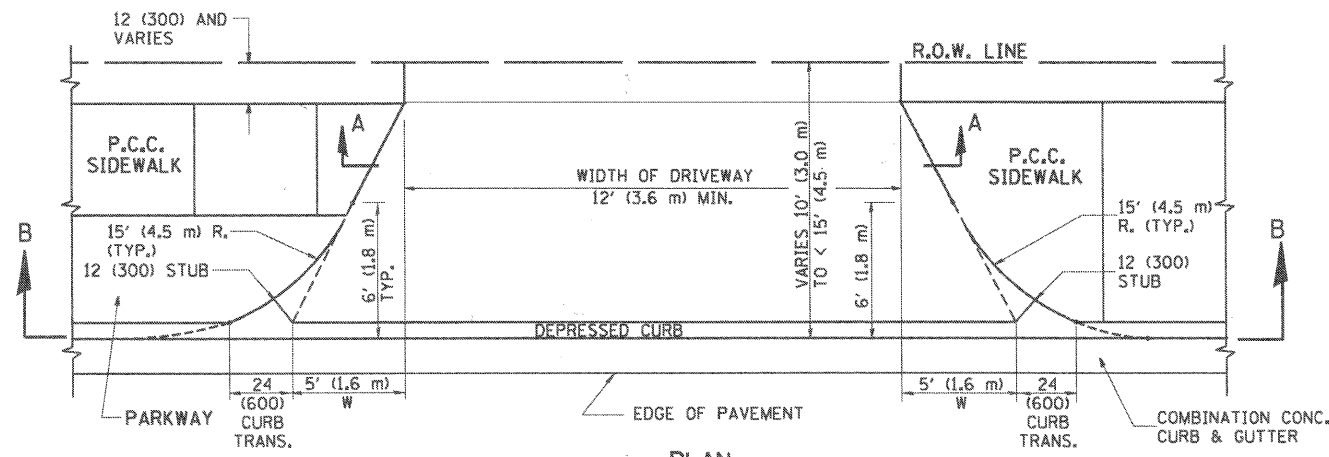
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		CHECKED -	REVISED - R. BORO 01-01-07
		DATE - 11-04-95	REVISED - R. BORO 06-11-08

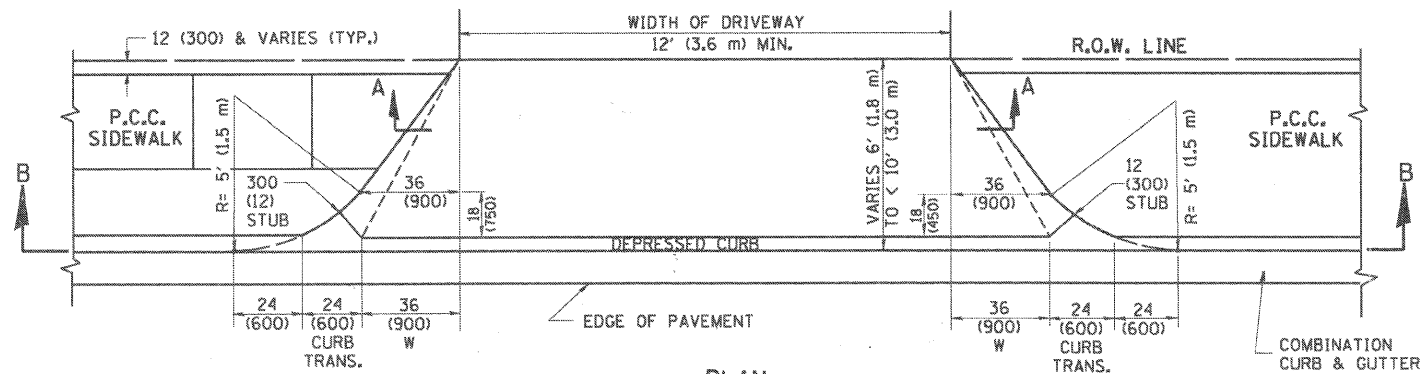
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

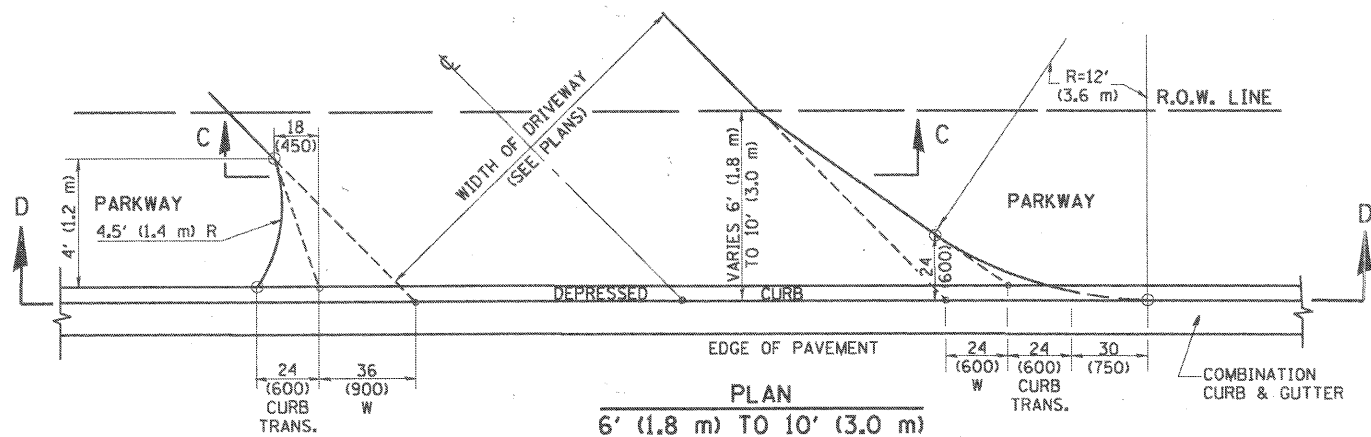
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BD0156-07 (BD-01)		CONTRACT NO. 63622		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



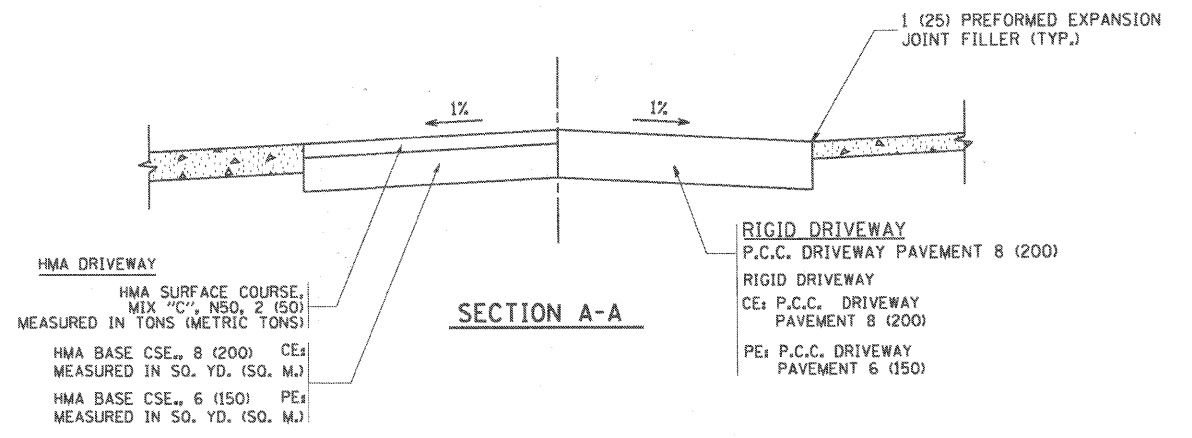
PLAN
10' (3.0 m) TO < 15' (4.5 m)



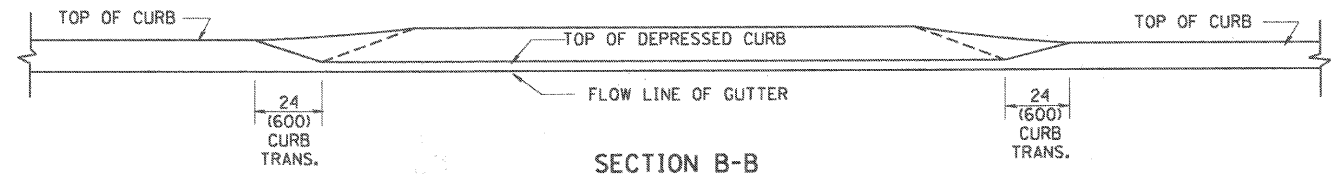
PLAN
6' (1.8 m) TO < 10' (3.0 m)



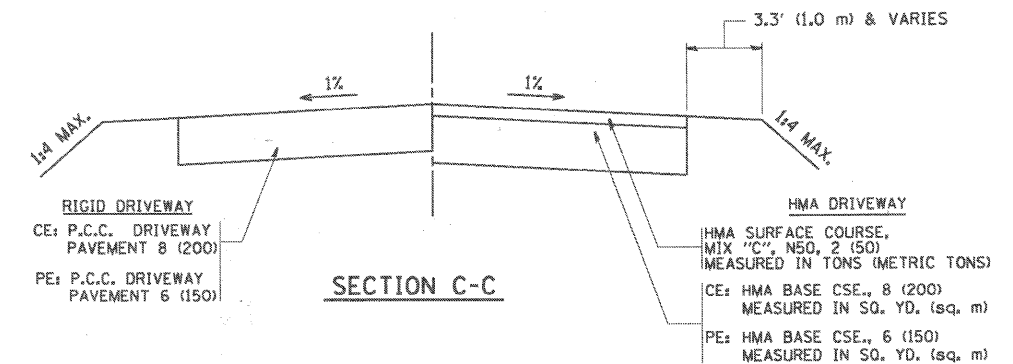
PLAN
6' (1.8 m) TO 10' (3.0 m)



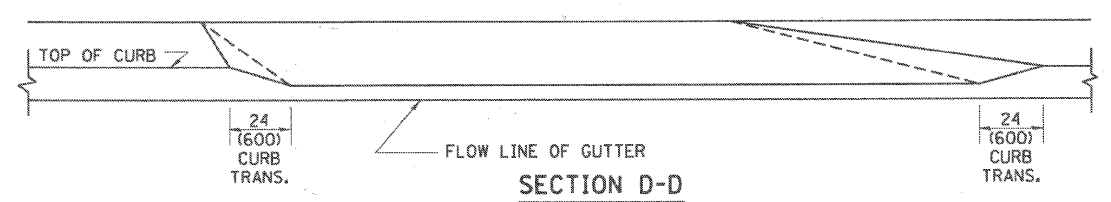
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

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

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

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

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

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

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

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

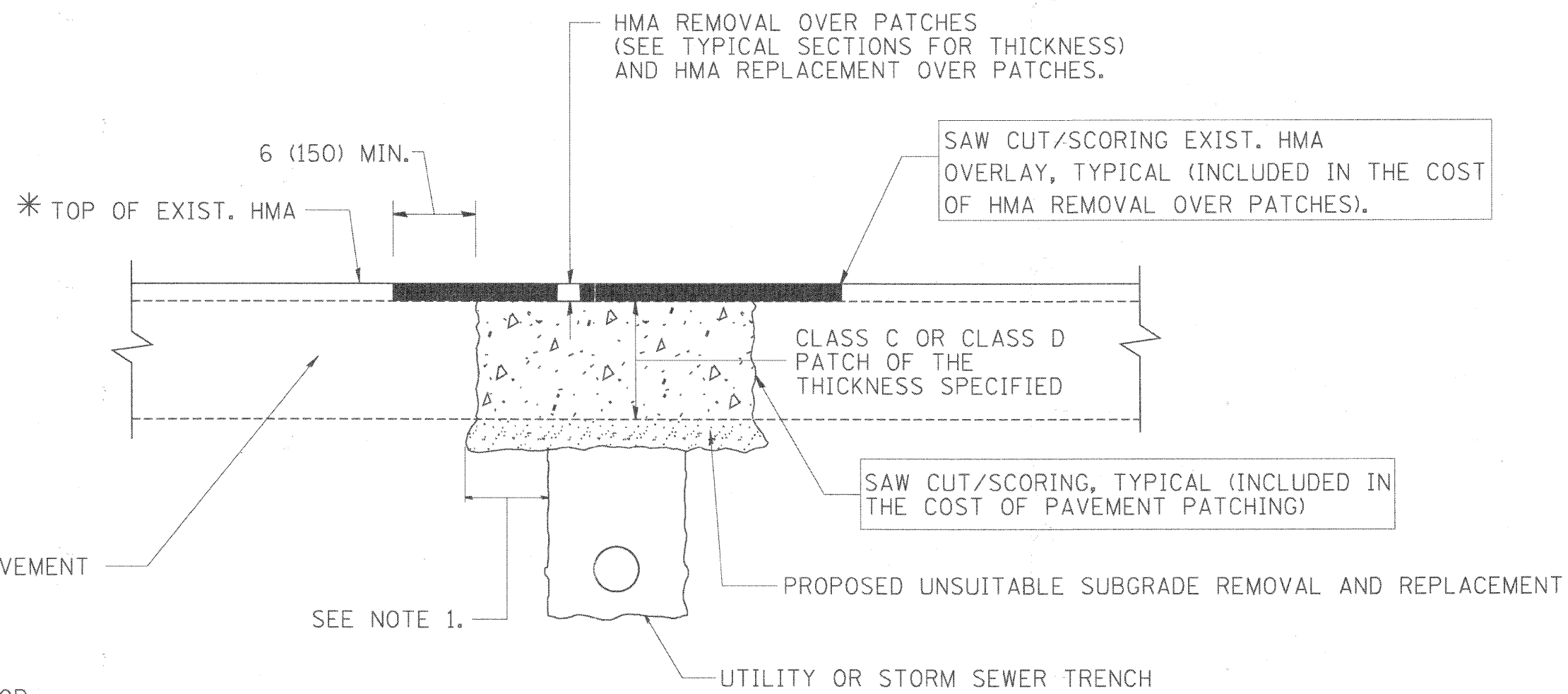
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		DRAWN -	REVISED - M. GOMEZ 04-06-01
		CHECKED -	REVISED - P. LaFLEUR 04-15-03
		DATE - 11-06-95	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-0011-00-LS	COOK	62	58
BD408-02 (BD-02)		CONTRACT NO. 63622		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

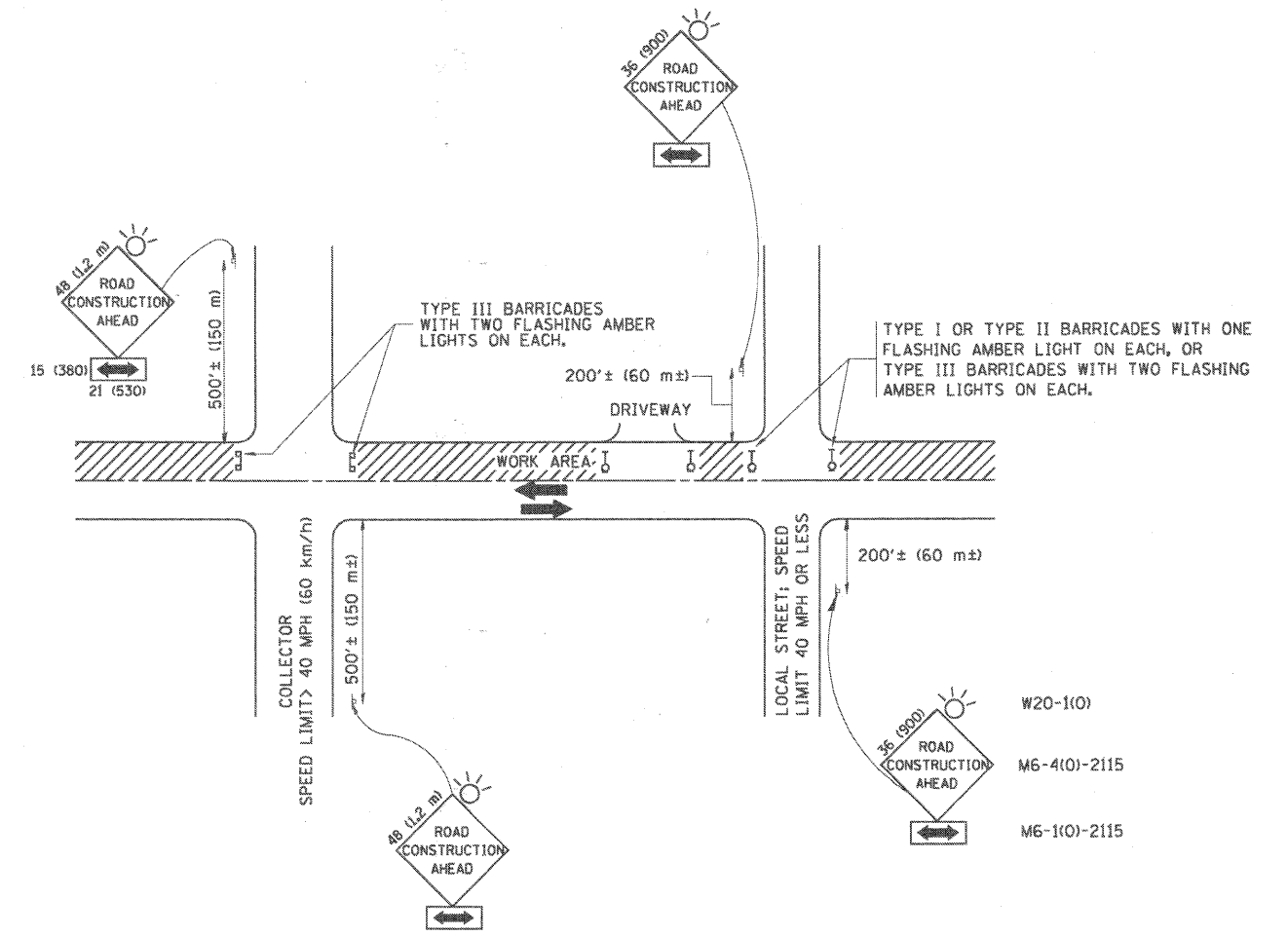
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLOT DATE = 1/4/2008	DATE - 10-25-94	REVISED - R. BORO 09-04-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE		374	10-00111-00-LS	COOK	62	59
SHEET NO. 1 OF 1 SHEETS		BD400-04 (BD-22)		CONTRACT NO. 63622		
STA. TO STA.		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.

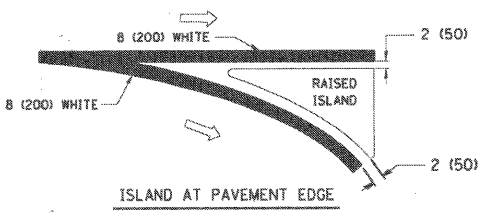
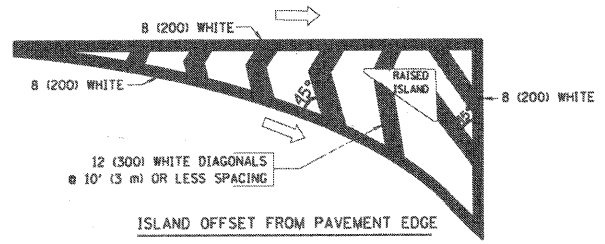
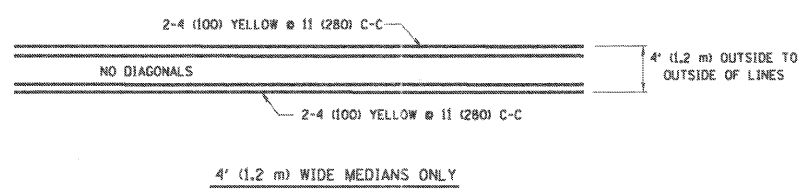
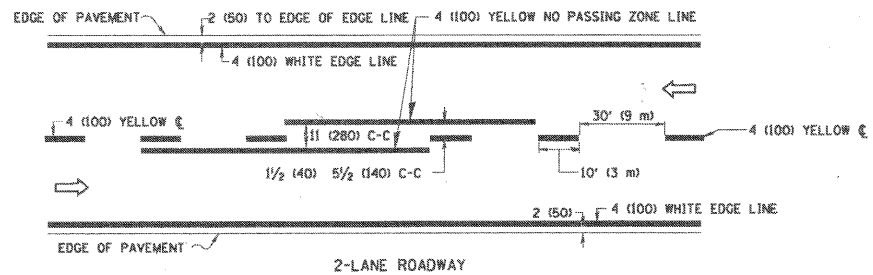
All dimensions are in millimeters (inches) unless otherwise shown.

COMPANY NAME: #PROJECT_CONTACT/ #CLIENT/ 7/20/2011 4:19:36 PM 86100085-061-04.dgn pdfLdt 3 standard-trans.tbl

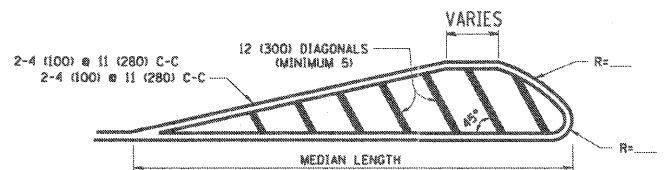
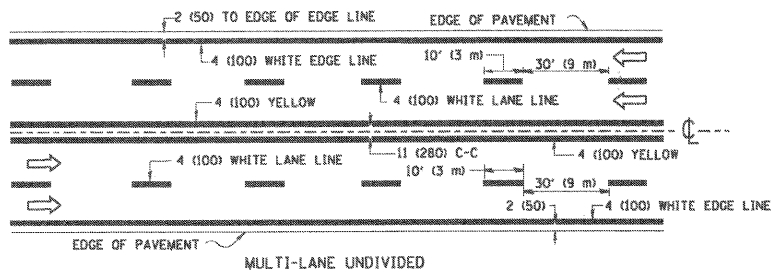
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

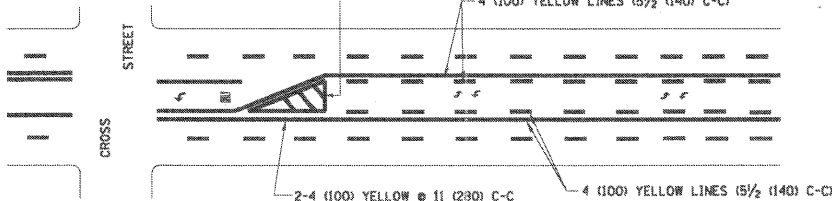
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		F.A.P. RTE. 374	SECTION 10-00111-00-LS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 60
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-10 CONTRACT NO. 63622			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



TYPICAL ISLAND MARKING



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

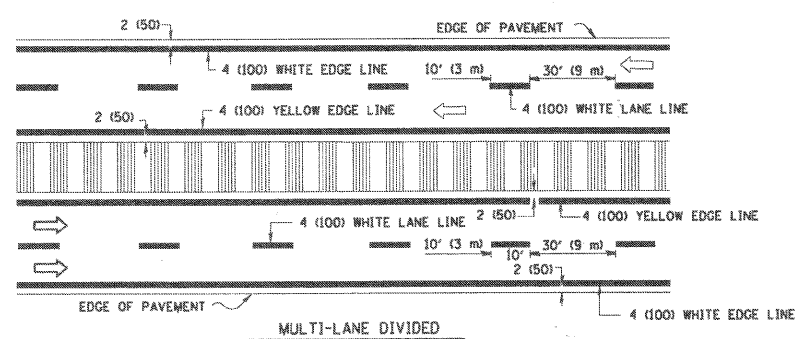


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



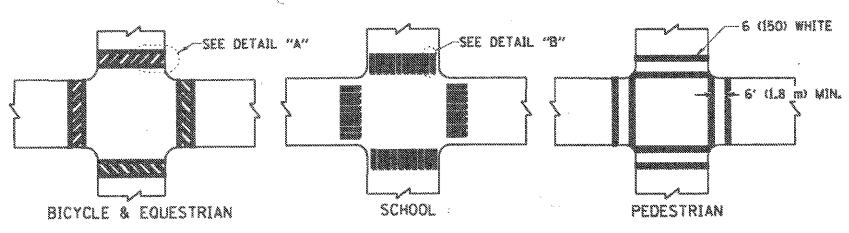
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

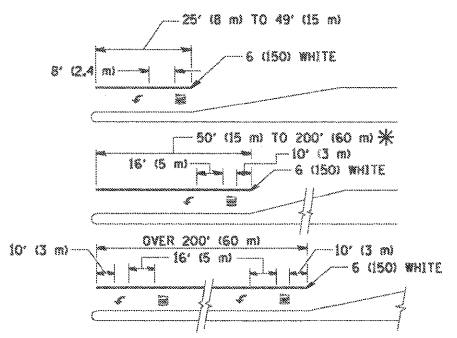


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINES FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

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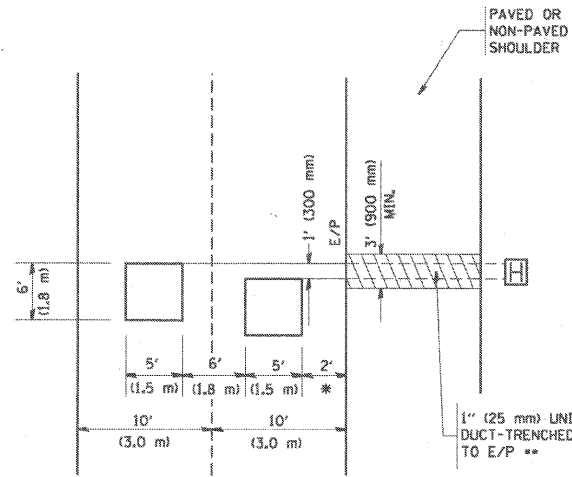
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		CHECKED -	REVISED - A. HOUSEH 10-17-96
		DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		374	10-00111-00-LS	COOK	62	61
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		CONTRACT NO. 63622		
STA. TO STA.		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



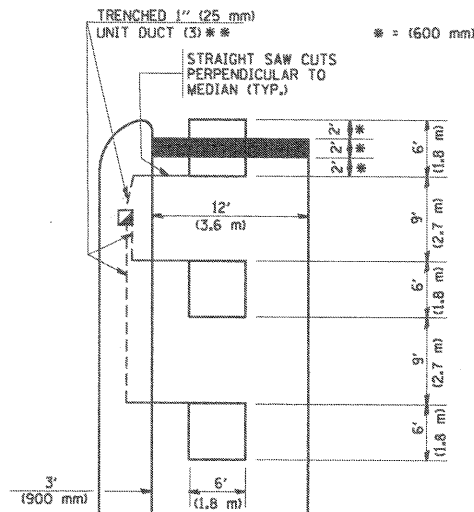
* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD B14001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

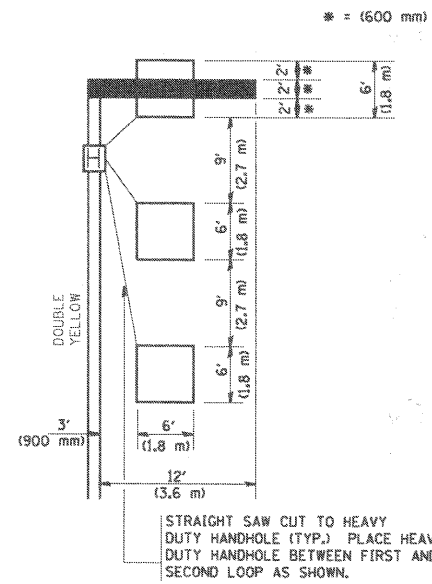


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

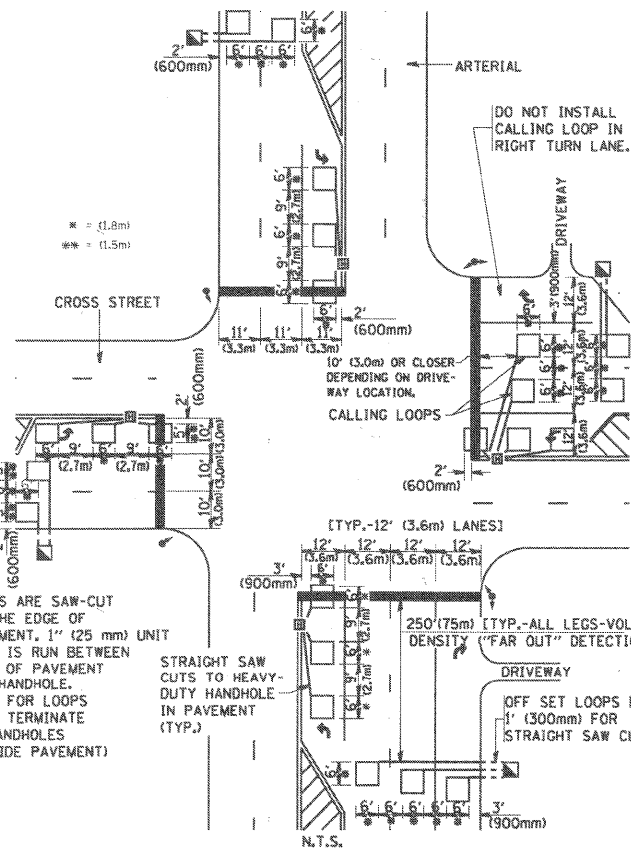
**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

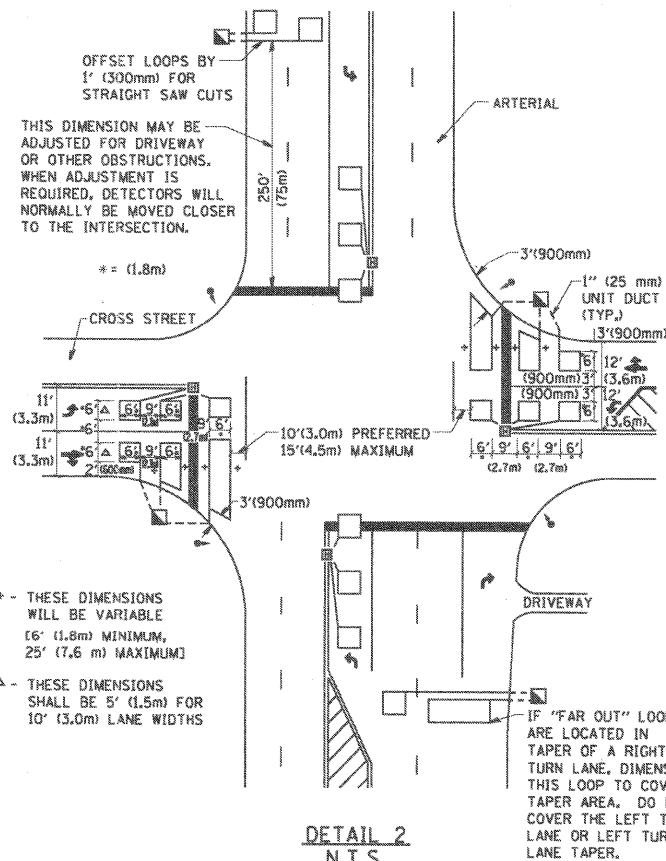
**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]

Δ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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DESIGNED -
 DRAWN -
 CHECKED - R.K.F.
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
 DETAILS FOR ROADWAY RESURFACING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
374	10-00111-00-LS	COOK	62	62
TS-07			CONTRACT NO. 63622	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				