INDEX OF SHEETS

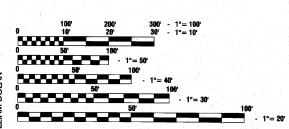
SEE SHEET NO. 2

**HIGHWAY STANDARDS** 

SEE SHEET NO. 2

<u>175</u> 1	th STREET (WEST LEG)	175th STREET (EAST LEG)	HARLEM AVENUE
2009 ADT -	7,500	860	40,000
2030 ADT -	8,500	1,000	45,000
POSTED SPEED LIMIT -	30 MPH	20 MPH	40 MPH
DESIGN PERIOD -	20 YEARS	20 YEARS	20 YEARS
DESIGN SPEED LIMIT -	35 MPH	25 MPH	45 MPH
STREET CLASSIFICATIO	ON CLASS II	CLASS III	CLASS I

SCALES PLAN - 1"=50"
PROFILE HORIZ. - 1"=50"
PROFILE VERT. - 1"=5"
CROSS SECTIONS - 1"=10



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

J. U. L. I. E

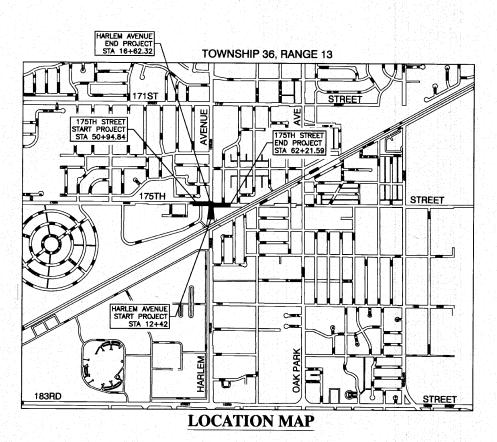
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1 - 800 - 892 - 0123 or 811

CONTRACT NO. 63453

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

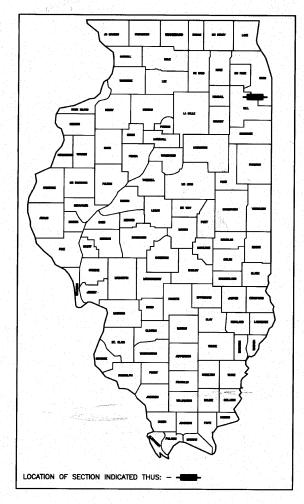
# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

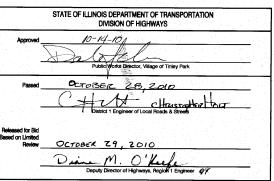
175TH STREET AT FAP ROUTE 348 (HARLEM AVENUE)
INTERSECTION IMPROVEMENTS
PROJECTMHSIP-8003(851)
SECTION NO.: 06-00104-00-CH
JOB NO.: C-91-367-07
VILLAGE OF TINLEY PARK
COOK COUNTY



- INDICATES PROPOSED IMPROVEMENT

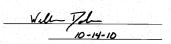
GROSS LENGTH= 1,547.07 FEET = 0.29 MILES NET LENGTH= 1,482.45 FEET = 0.28 MILES CONTRACT #63453





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:





JLTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

# **INDEX OF SHEETS**

1.	COVER SHEET
2.	INDEX OF SHEETS AND STATE STANDARDS
3.	GENERAL NOTES
47.	SUMMARY OF QUANTITIES
89.	TYPICAL CROSS SECTIONS
1013.	ALIGNMENT AND TIES
1415.	DETOUR PLAN
1618.	SUGGESTED STAGING OF CONSTRUCTION AND TRAFFIC CONTROL
1920.	PLAN AND PROFILES
21.	INTERSECTION GRADING PLAN
2223.	DRAINAGE AND UTILITIES PLANS
24.	WATER MAIN RELOCATION PLAN
25.	PAVEMENT MARKING AND SIGNING
26.	LANDSCAPING AND EROSION CONTROL PLANS
2732.	STREET LIGHTING PLANS
33.	DISTRICT 1 STANDARD TRAFFIC SIGNAL LEGEND
3444.	TRAFFIC SIGNAL PLANS
45.	MAST ARM MOUNTED STREET NAME SIGNS
4650.	DISTRICT 1 STANDARD TRAFFIC SIGNAL DETAILS
5156.	CROSS SECTIONS
5760.	CONSTRUCTION AND DISTRICT 1 DETAILS

# STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
424001-05	CURB RAMPS FOR SIDEWALKS
442101-07	CLASS B PATCHES
602001-02	CATCH BASIN, TYPE A
602301-03	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
604051-03	FRAME AND GRATE TYPE 11
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 4.5 m (15) TO 600 mm (24") FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
701606-07	URBAN LANE CLOSURE, MULTILANE WITH MOUNTABLE MEDIAN
701701-07	URBAN LANE CLOSURE MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPE A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-04	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-08	CONCRETE FOUNDATION DETAILS
880001-01	SPAN MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

SCALE:

FILE NAME = 06508-INDX-01 - IDOT P01	USER NAME =	DESIGNED — WPD	REVISED —
		CHECKED — WPD	REVISED
	PLOT SCALE =	DRAWN — AG	REVISED —
	PLOT DATE = 10-14-10	CHECKED — AG	BEVISED —

S	TATE OF IL	LINOIS	
DEPARTM	ENT OF TR	ANSPORT.	ATION

INDEX OF SHEETS AND STATE STANDARDS	F.A.P. RTE.		SEC	TION		COUNTY	TOTAL SHEETS	
INDEX OF SHEETS AND STATE STANDARDS	348	40.7	06-0010	4-00-CH	2.5	COOK	60	2
	5.80					CONTRACT	NO. 6345	53
SHEET NO. 2 OF 60 SHEETS STA. TO STA.	FED. RO	AD DIST.	. NO. 1	ILLINOIS	FED. Al	D PROJECTAHISIP-8	3003 (851)	

- 1 ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES WHICH ARE NOT SPECIFICALLY INDICATED IN THE PLANS SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- DRAINAGE STRUCTURE ELEVATIONS: GRADES OF SEWER LINES WERE DETERMINED FROM AVAILABLE PLANS AND SURVEYS. ACCORDINGLY, AS DIRECTED BY THE ENGINEER, THE INVERTS OF THE PROPOSED DRAINAGE WILL BE REVISED TO MEET EXISTING FIELD CONDITIONS.
- THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS. ALL RIM ELEVATIONS OF STRUCTURES IN THE PROPOSED CURB LINE ARE GIVEN TO THE EDGE OF PAVEMENT. ALL OTHER RIM ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURES.
- 4 HALF TRAPS ARE TO BE OMITTED IN CATCH BASINS.
- FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS & SEWERS AND DISCHARGE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY SEWER CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED,
- 7 THE CAST IRON FRAMES AND COVERS OF FILLED, ABANDONED OR REMOVED MANHOLES, INLETS AND CATCH BASINS OR THOSE FRAMES AND COVERS SHALL BE STOCKPILED WITHIN THE RIGHT-OF-WAY, AS DIRECTED BY THE ENGINEER, AND PICKED UP BY THE COMMUNITY.
- THE APPROXIMATE LOCATION OF KNOWN PUBLIC UTILITIES ARE SHOWN ON THE PLANS. HOWEVER, THE DEPARTMENT DOES NOT GUARANTEE THEIR ACCURACY. PRIOR TO COMMENCING OPERATIONS ON THE PROJECT WHICH MAY IN ANY WAY CREATE THE POSSIBILITY OF INVOLVEMENT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNER (OR COMMUNITY) INVOLVED. ADJUSTMENT OF ALL PUBLIC UTILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT WILL BE DONE BY THE RESPECTIVE OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATION BEFORE STARTING CONSTRUCTION OPERATIONS IN ACCORDANCE WITH ARTICLE 105.07. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES.
- 9 ALL TRENCHES WITHIN 2 FEET OF PROPOSED PAVEMENT, DRIVEWAYS, AND SIDEWALKS SHALL BE BACKFILLED WITH TRENCH BACKFILL ONLY.
- 10 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 OR B-6.24 SHALL BE INSTALLED WITH A THICKNESS EQUAL TO NINE (9") AT THE GUTTER FLAG.

- THE CONTRACTOR SHALL PROTECT ALL TREES WITHIN AND ADJACENT TO THE CONSTRUCTION SITE DURING THE CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS. THOSE TREES TO BE REMOVED AS SHOWN IN THE PLANS SHALL BE DONE IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
- 13 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY OR PUBLIC RIGHT OF WAY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE.
- ALL STORM SEWERS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED WITH RUBBER GASKETS IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR STORM SEWERS AS SPECIFIED.
- 15 THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4150 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK. THE CONTRACTOR SHALL ALSO CONTACT ROBINSON ENGINEERING (708) 331-6700 AND THE VILLAGE OF TINLEY PARK (708) 444-5510, A MINIMUM OF 72 HOURS IN ADVANCE OF REGINNING WORK
- POROUS GRANULAR EMBANKMENT (PGE) SUBGRADE HAS BEEN PROVIDED FOR LOCATIONS WHERE SOILS TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL). IF UNSTABLE AND/OR UNSUITABLE MATERIALS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- 17 ALL PAVEMENT, CURB AND SIDEWALK REMOVALS SHALL BE MADE BY MEANS OF STRAIGHT SAW CUT JOINT. THE COST FOR SAW CUTTING SHALL BE INCLUDED IN THE COST OF THE ITEM FOR WHICH THE WORK APPLIES.
- CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR TRAFFIC CONTROL AND PROTECTION IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS ADOPTED JANUARY 1, 2007, THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 19 10' TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER OR TO TAPER FROM 6" TO 0", UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
- ALL STORM SEWERS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STATE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE A.A.S.H.T.O. DESIGNATION M170 (A.S.T.M. DESIGNATION C76), WITH A MINIMUM OF CLASS III.
- 21 THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS THROUGHOUT
  THE RECONSTRUCTION LIMITS AT ALL TIMES. IF DRIVEWAY ACCESS MUST BE RESTRICTED, THE CONTRACTOR SHALL
  NOTIFY THE RESIDENT AND ENGINEER IN WRITING 24 HOURS IN ADVANCE.

		<u>and the first of the second o</u>	
FILE NAME = 06508-NOTE-01 - IDOT P01	USER NAME =	DESIGNED — WPD	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — ACAD	RÉVISED —
<u>요 - 공조 회</u> 요로 그리고 등을 받을다고 있습니다.	PLOT DATE = 10-14-10	CHECKED - ACAD	REVISED -

_				5 1 1 de				
		OFNEDAL NOTES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET
		GENERAL NOTES		348	06-00104-00-CH	COOK	60	3
	SCALE:	SHEET NO. 3 OF 60 SHEETS STA		e dise		CONTRACT		
	SCALE.	SHEET NO. 3 OF 60 SHEETS STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	D PROJECT #HSIP-	3003 (851)	

		SUMMARY OF QUANTITIES			PAVEMENT	MARKINGS	SIGNS	LANDSCAPE	LIGHTS	SIGNALS	TRAINING	NON—PARTICIPAT 100% VILLAGI OF TINLEY PAR
S.I. CODE NO.		PAY ITEM	UNIT	QUAN	004	004	021	CONSTRUCTA 031	ON TYPE C	0 <b>DE</b> 021	042	042
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	33			3.02	1	UZI	021	042	043
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	42	42					1		
	20101100	TREE TRUNK PROTECTION	EACH	7	7					-		
	20200100	EARTH EXCAVATION	CU YD	3823	3823							
1	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100	100							
	20800150	TRENCH BACKFILL	CU YD	509	59							
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4840	4840			-				4
* 2	25000210	SEEDING, CLASS 2A	ACRE	1040	1					<u> </u>		
* 2	25000400	NITROGEN FERTILIZER NUTRIENT	POUND		<b>_</b>							
	25000500	PHOSPHORUS FERTILIZER NUTRIENT		90	90							<u> </u>
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90							
	25100630	EROSION CONTROL BLANKET	POUND	90	90							
	28000400		SQ YD	4840	4840							
	28000510	PERIMETER EROSION BARRIER INLET FILTERS	FOOT	1203	1203							
	31101200		EACH	9	9				<u> </u>			
	31200500	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	596	596		<u> </u>					
		STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"	SQ YD	223	223							
	35300500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	223	223							
	35501300	HOT-MIX ASPHALT BASE COURSE, 4"	SQ YD	317	317							
	35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	81	81							
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	808	808							
4	40600300	AGGREGATE (PRIME COAT)	TON	12	12							
_ 4	40600635	LEVELING BINDER (MACHINE METHOD), N70	TON H	10	10							
4	40600895	CONSTRUCTING TEST STRIP	EACH	1	1							<u> </u>
4	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	46	46							
4	40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	23	23							
14	40701846	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8 1/4"	SQ YD	5223	5223							
4	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5356	5356							
4	12400800	DETECTABLE WARNINGS	SQ FT	128	128						7 1 7 7 7	
4	14000100	PAVEMENT REMOVAL	SQ YD	4208	4208							
4	14000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	719	719							
4	14000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2872	2872							
4	14000600	SIDEWALK REMOVAL	SQ FT	3474	3474							
4	14200966	CLASS B PATCHES, TYPE I, 10 INCH	SQ YD	5	5							-
5	550A0040	STORM SEWERS, CLASS A, TYPE 1 10"	FOOT	18	18							
5	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	84	84							
5	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	280	280							
5	55100500	STORM SEWER REMOVAL 12"	FOOT	157	157							
5	6103000	DUCTILE IRON WATER MAIN 6"			13/				-			
	6103100	DUCTILE IRON WATER MAIN 8"	FOOT	85								8
	6103200	DUCTILE IRON WATER MAIN 10"	FOOT	1025								102
	6108800	TAPPING VALVES AND SLEEVES 6"	FOOT	20								2
-	6108900	TAPPING VALVES AND SLEEVES 8"	EACH	3								
	6300100		EACH	2								
		ADJUSTING SANITARY SEWERS, 8-INCH DIAMETER OR LESS	FOOT	60					1,411			6
-	6300300	ADJUSTING WATER SERVICE LINES	FOOT	60		-						6
		FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	3								
		DOMESTIC WATER SERVICE BOXES TO BE REMOVED	EACH	2								
		DOMESTIC WATER SERVICE BOXES	EACH	2						()a		
		CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1				9 2 2 2 1 1 1 1			
6	0201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2	2						3 10 27	

FILE NAME = 06508-QUAN-01 - P01	USER NAME =	DESIGNED — WPO REVISED —		TATAL OTDERT AT HADI ELLANGARIE	FAP.   SECTION   COUNTY   TOTAL   SHEET
		CHECKED — WPD REVISED —	STATE OF ILLINOIS	175TH STREET AT HARLEM AVENUE INTERSECTION IMPROVEMENTS	RTE. SECTION COUNTY SHEETS NO.
생활하는 사람들이 가는 사람들이 함	PLOT SCALE = 1=1'	DRAWN - AG REVISED -	DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANITIES	348 06-00104-00-CH COOK 60 4
	PLOT DATE = 10-14-10	CHECKED — AG REVISED —			CONTRACT NO. 63453
				SCALE: NA SHEET NO. 4 OF 80 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-HSIP-8003 (851)

		SUMMARY OF QUANTITIES			PAVEMENT	MARKINGS	SIGNS	LANDSCAPE	LIGHTS	SIGNALS	TRAINING	NON-PARTICIPAT 100% VILLAGE OF TINLEY PAR
S.I. CODE NO.		PAY ITEM	UNIT	QUAN		a tait s		CONSTRUCTI	ON TYPE C			
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE			004	004	021	031	021	021	042	043
4	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2				-				
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2					11111		
	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	1	1			-				
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1	1							
*	60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH .	3	3							-
* *	60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH .	5								
<b>N</b>	60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	ļ							
	60255500	MANHOLES TO BE ADJUSTED	EACH	1	] 							
	60260100	INLETS TO BE ADJUSTED	EACH	5	5					ļ		<u> </u>
	60500040	REMOVING MANHOLES	EACH	3	3							
	60500050	REMOVING CATCH BASINS	EACH	1	1						<u> </u>	
	60500060	REMOVING INLETS	EACH	3	3							
	60500080	REMOVING CATCH BASINS TO MAINTAIN FLOW	EACH	1								ļ
	60500090	REMOVING CALCH BASINS TO MAINTAIN FLOW  REMOVING INLETS TO MAINTAIN FLOW	EACH	1	1							<u> </u>
-	60600605	CONCRETE CURB, TYPE B	EACH	2	2			<b>_</b>				
	60603800		FOOT	404	404							
		COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	998	998							1 1 1
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	27	27							
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1298	1298							
-	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	1860	1860							
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6							
	67100100	MOBILIZATION	L SUM	1	1							
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	5.5							
	XX006119	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L <b>Sum</b>	1	1							
	70300100	SHORT—TERM PAVEMENT MARKING	FOOT	169	169							
	70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	145	145							
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2592	2592							
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	446	446					291112		
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	104	104							
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1498	1498							
	72000100	SIGN PANEL - TYPE 1	SQ FT	11	11		3196					
	72000200	SIGN PANEL - TYPE 2	SQ FT	25	25							
-	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	8	8							
k	78000100	THERMOPLASTIC PAVEMENT MARKING — LETTERS AND SYMBOLS	SQ FT	291	291							1. 1. 1. 1.
۲	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2242	2242							
K	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1596	1596							
	78000600	THERMOPLASTIC PAVEMENT MARKING — LINE 12"	FOOT	70	70							
K	78000650	THERMOPLASTIC PAVEMENT MARKING — LINE 24"	FOOT	140	140							
K	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	545						545		<b>_</b>
`	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	218						218		<u> </u>
۲.	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	11						11		
١	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	29						29		
۱	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	153						153		
٠	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	441						441		
K	81400100	HANDHOLE	EACH	4					<u> </u>	4		
١	81400200	HEAVY-DUTY HANDHOLE	EACH	4	1834					4		
	81400300	DOUBLE HANDHOLE	EACH	2						2	mananana e e e compromisa na electro	
k	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1896						1896		
١	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	2						2		L

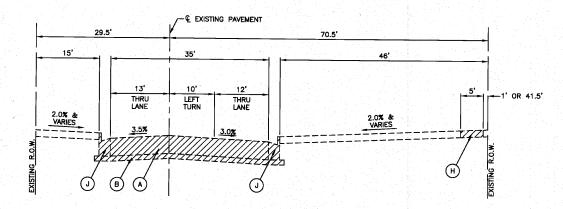
	FILE NAME = 06508-QUAN-01 - P02	USER NAME =	DESIGNED — WPD	REVISED —	175TH STREET AT HARLEM AVENUE FAP SECTION COUNTY TOTAL SHEET
1.			CHECKED — WPD	REVISED —	STATE OF ILLINOIS INTERSECTION IMPROVEMENTS
		PLOT SCALE = 1=1'	DRAWN AG	REVISED —	DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTIES
		PLOT DATE = 10-14-10	CHECKED — AG	REVISED —	SCALE: NA SHEET NO. 5 OF 60 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AD PROJECT M-HSIP-9003 (851)
					FED. ADAD DIST. NO. 1 LEDICOS   FED. AU PROJECT   M-TISTP-0003 (631)

		SUMMARY OF QUANTITIES			PAVEMENT	MARKINGS	SIGNS	LANDSCAPE	LIGHTS	SIGNALS	TRAINING	NON-PARTICIPATII 100% VILLAGE OF TINLEY PARK
3.I.	CODE NO.	PAY ITEM	UNIT	QUAN	004	004	021	CONSTRUCTION 031	O21	021	042	T 642
	83008500	LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. MAST ARM	EACH	2	<del>                                     </del>				,	2	042	043
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	50						50 50		<u> </u>
	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	6	<u> </u>					6		
	84200804	REMOVAL OF POLE FOUNDATION	EACH	4	1				-	4		<u> </u>
	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	4				energen out and		4		
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1								
	85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1 1						1		
	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1								<del></del>
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1147	van se					1147		1
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1495						1495		
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	878						878		
1	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1571						1571		
1	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2175								
	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	85						2175		-
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4						85		<u> </u>
1	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH EACH				NOTE THE RESERVE OF THE PARTY O			4	<u> </u>	
	87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH							1		<b></b>
	87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.								. 1		
+	87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	<u> </u>						1	<u> </u>	
+	87800100	CONCRETE FOUNDATION, TYPE A	EACH	1					<u> </u>	1		<b>_</b>
ł	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	16			<u></u>			16		
1	87800415	CONCRETE FOUNDATION, TYPE & 36-INCH DIAMETER	FOOT	4						4		
+	87900200	DRILL EXISTING HANDHOLE	FOOT	48						48		
+	88030020		EACH	2						2		
+	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5			-			5		
+	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3				-		3		
4		SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5			<u> </u>			5		
-	88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1						1		
+	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1—FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8						8		1
+	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10						10		
-	88500100	INDUCTIVE LOOP DETECTOR	EACH	2						2		
1	88600100	DETECTOR LOOP, TYPE I	FOOT	609						609		
1	88700200	LIGHT DETECTOR	EACH	2						2		
1	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1					28 5.5	1		
	88800100	Pedestrian Push-Button	EACH	8						8		
_	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	15					1		
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1						1		
1	89502380	REMOVE EXISTING HANDHOLE	EACH	5				255		5		
1	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8						8		1
	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	5995	5995							
1	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52							
1	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	4					4. 14. 77.	4		
1	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1						1		
1	Z0033090	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3400						3400		<del></del>
1	Z0041900	POLYETHYLENE ENCASEMENT	FOOT	1200								120
L	Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	100	100							<del></del>
L	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1						<del></del>	THE CONTRACTOR OF THE CONTRACT
	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	98	98							
I	Z0062456	TEMPORARY PAVEMENT	SQ YD	241	241						<del></del>	
ſ	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH									

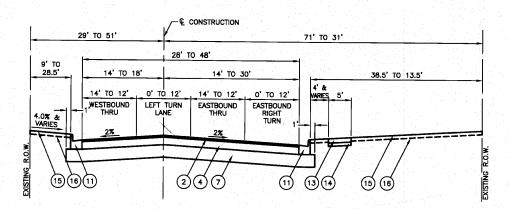
FILE NAME = 06508-QUAN-01 - P03	USER NAME =	DESIGNED — WPD	REVISED —			175TH STREET AT HARLEM AVENUE	IFAP I	TOTAL I SHEET
		CHECKED — WPD	REVISED —	STATE OF ILLINOIS		INTERSECTION IMPROVEMENTS	RTE. SECTION	COUNTY SHEETS NO.
	PLOT SCALE = 1=1'	DRAWN — AG	REVISED —	DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANITIES	348 06-00104-00-CH	COOK 60 6
<u>and a first state of the state</u>	PLOT DATE = 10-14-10	CHECKED — AG	REVISED —		SCALE: NA	SHEET NO. 6 OF 60 SHEETS STA. TO STA.		CONTRACT NO. 63453
					1 1	GILET NO. 0 OF GO GILLETO TOTAL TOTAL	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID	PROJECT M-HSIP-8003 (851)

		SUMMARY OF QUANTITIES			PAVEMENT	MARKINGS		LANDSCAPE	LIGHTS	SIGNALS	TRAINING	NON-PARTICIP 100% VILLA OF TINLEY P
i.l.	CODE NO.	PAY ITEM	UNIT	QUAN	004	004	021	031	O21	0 <b>DE</b> 021	042	042
	Z0076600	TRAINEES	HOUR	1000				001	021	021	1000	043
k	A2006618	TREE, QUERCUS IMBRICARIA (SHINGLE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	5			-			1000	
K	X0323005	AUXILIARY VALVE AND VALVE BOX	EACH	1	-							
	X0326657	RELOCATE SIGN, SPECIAL	EACH	1	1				-			
	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	350	350							
	X2800510	INLET FILTER CLEANING	EACH	9	9				<del>- 1 - 1 - 1</del>			
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	7							<del></del>	
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH		7				-			
. :	X4403800	MEDIAN SURFACE REMOVAL	and the same of th	2	2							
ķ.	X5630006	CUT AND CAP EXISTING 6" WATER MAIN	SQ FT	1577	1577	a managan sa						
ĸ	X5630008	CUT AND CAP EXISTING 8" WATER MAIN	EACH	8								-
k	X5630010	CUT AND CAP EXISTING 10" WATER MAIN	EACH	2								
	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	2					<u> </u>			
k	X8050015	SERVICE INSTALLATION — POLE MOUNTED	EACH	5	5							
k	X8163090		EACH	1						1		1
		UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1270						1270		
K	X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1						1		
	X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3400			The second secon			3400		
۱	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1515						1515		
	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	292						292		
•	XX001047	VALVE VAULTS TO BE ABANDONED	EACH	2								
	XX001490	GATE VALVES, 8"	EACH	2								
	XX003037	DUCTILE IRON FITTINGS AND ACCESSORIES	POUND	2500								2
	XX005855	WATER MAIN CASING PIPE	FOOT	170								
<	XX006244	WATER SERVICE INSTALL, 2" COMPLETE	EACH	1								
ĸ	XX006536	WATER SERVICE LINE 1", BORED	FOOT	50								
ĸ	XX006879	DUCTILE IRON SOLID SLEEVE 6"	EACH	2								
	XX007266	FIRE HYDRANTS TO BE REMOVED, SPECIAL	EACH	2								
,	XX007776	REMOVE AND ABANDON VALVE BOX										
K	XX008209	TAPPING VALVES AND SLEEVES 10" X 8"	EACH	5								e es es reconstançamental de
1			EACH	1								
-												
+												
+			4.00000000									PRESIDENT STATES STATES
+												
+												
-												
+												
1				9.1								
+												
1												
1												
l			at the second									
1												
I												
ſ												
I			TO THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE									***************************************
1												<u></u>
t-					Karata Mate	ALE THE	- 12 (C. 11)					

FILE NAME = 06508-QUAN-01 - P04	USER NAME =	100	DESIGNED - WPD		REVISED -	- N. H	The second		1					
			CHECKED WPD		REVISED -			STATE OF ILLINOIS		175TH STREET AT HARLEM AVENUE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	PLOT SCALE = 1=1'		DRAWN — AG	4 4 4	REVISED -	- 10 1 1 1 1 1 1 1 1 1	1	DEPARTMENT OF TRANSPORTATION	Sure Programme	INTERSECTION IMPROVEMENTS SUMMARY OF QUANITIES	348	06-00104-00-CH	COOK	60 7
	PLOT DATE = 10-14	I-10	CHECKED — AG		REVISED -	- 11-7	1		SCALE: NA				CONTRACT	NO. 63453
				1.4 . 10 1.7					J SCALE. NA	SHEET NO. 7 OF 60 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	ID PROJECT M-HSI	P-8003 (851)



EXISTING TYPICAL CROSS SECTION 175TH STREET STA 50+94.84 TO STA 56+17.70



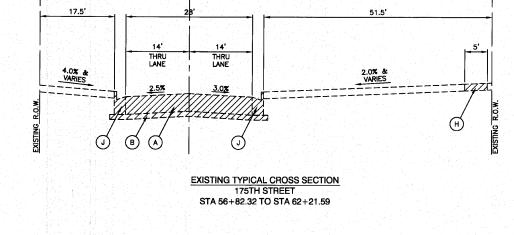
PROPOSED TYPICAL CROSS SECTION 175TH STREET STA 50+94.84 TO STA 56+17.70

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT - 175TH STREET (WEST LEG)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm); 2 INCH	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6.25 INCH	4% @ 50 Gyr.
FULL DEPTH PAVEMENT - 175TH STREET (EAST LEG)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9,5mm); 2 INCH	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 6.25 INCH	4% @ 50 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5mm); 2 INCH	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0mm); PE -4 INCH, CE -6 INCH	4% @ 50 Gyr.
HARLEM AVENUE PAVEMENT WIDENING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm); 1 3/4 INCH	4% @ 90 Gyr.
LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5mm); 0.75 INCH	4% @ 70 Gyr.
STABILIZED SUB-BASE HOT-MIX ASPHALT, 4 INCH	2% @ 30 Gyr.
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm); 1 1/2 INCH	4% @ 50 Gyr.
TEMPORARY PAVEMENT (HMA BINDER IL-19mm), 8 1/2 INCH	4% @ 50 Gyr.

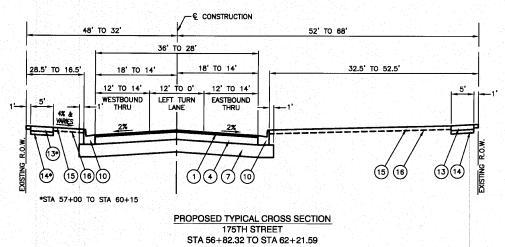
NOTE:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/ISY/IN.

2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/ISBR 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.



F EXISTING PAVEMENT



# **LEGEND**

(A)	HMA PAVEMENT, 6" TO 9"
B	CRUSHED STONE BASE COURSE, 4" TO 6"
(©)	HMA SURFACE COURSE, 2 1/2"
(D)	PCC PAVEMENT, 10"
(F)	STABILIZED SUBBASE, 4"
(G)	PCC MEDIAN
$\widetilde{\mathbf{O}}$	COMBINATION CONCRETE CURB & GUTTER
$\overset{\smile}{\oplus}$	PCC SIDEWALK
////	TEMS TO BE REMOVED

HMA SURFACE COURSE, MIX "C", N50, 2" HMA SURFACE COURSE, MIX "D", N50, 2" POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 34" HMA BINDER COURSE, IL-19.0, N50, 6 14" LEVELING BINDER (MACHINE METHOD) N70, 3/4" (6) PCC BASE COURSE, 10" AGGREGATE SUB-GRADE, 12" STABILIZED SUB-BASE, HMA, 4" TYPE B CURB, 6" TYPE B-6.12 COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24 COMBINATION CONCRETE CURB & GUTTER

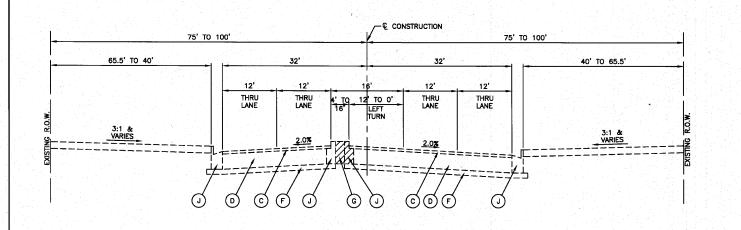
CONCRETE MEDIAN SURFACE COURSE, 4" PCC SIDEWALK, 5" SUB-BASE GRANULAR MATERIAL, 4" (15) SEEDING, CLASS 2A TOPSOIL, FURNISH & PLACE, 4" #8 DEFORMED BAR, 24" ● 24" C-C

# EARTHWORK SCHEDULE

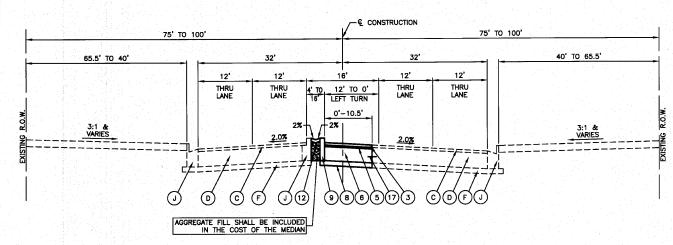
LOCATION	EARTH EXCAVATION	UNSUITABLE OR UNSTABLE MATERIAL	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
STA. 50+94.84 to STA. 56+17.70	2257	462	1693	27	1666
STA. 56+82.32 to STA. 62+21.59	1566	154	1175	63	1112
TOTAL	3823	616	2868	90	2778

RAP SEE DISTRICT ONE SPECIAL PROVISIO	NS.		
FILE NAME = 06508-TYPX-01	USER NAME =	DESIGNED — WPD	REVISED —
		CHECKED — WPD	REVISED —
하는 중에 한번 등관점 사이들은 사람	PLOT SCALE =	DRAWN — AG	REVISED —
	PLOT DATE = 10-14-10	CHECKED — ACAD	REVISED —

		The state of the s		-					
SCALE: NA	SHEET NO. 8 OF 60 SHEETS	STA. TO STA.	1000	FED. ROA	AD DIST. NO. 1 ILLINOIS FEE	. AID PROJECT HISIP-	8003 (851)	1000	
		<u> </u>		1.3		CONTRACT	NO. 6345	3	
	TYPICAL CROSS	SECTION		348	06-00104-00-CH	соок	60	В	
	TYPICAL OPOSS	PEOTION		RTE.	SECTION	COUNTY	SHEETS	NO.	



EXISTING TYPICAL CROSS SECTION HARLEM AVENUE STA 12+42.00 TO STA 16+62.32



PROPOSED TYPICAL CROSS SECTION HARLEM AVENUE STA 12+42.00 TO STA 16+62.32

# **LEGEND**

A HMA PAVEMENT, 6" TO 9"

B CRUSHED STONE BASE COURSE, 4" TO 6"

C HMA SURFACE COURSE, 2 ½"

D PCC PAVEMENT, 10"

F STABILIZED SUBBASE, 4"

G PCC MEDIAN

J COMBINATION CONCRETE CURB & GUTTER

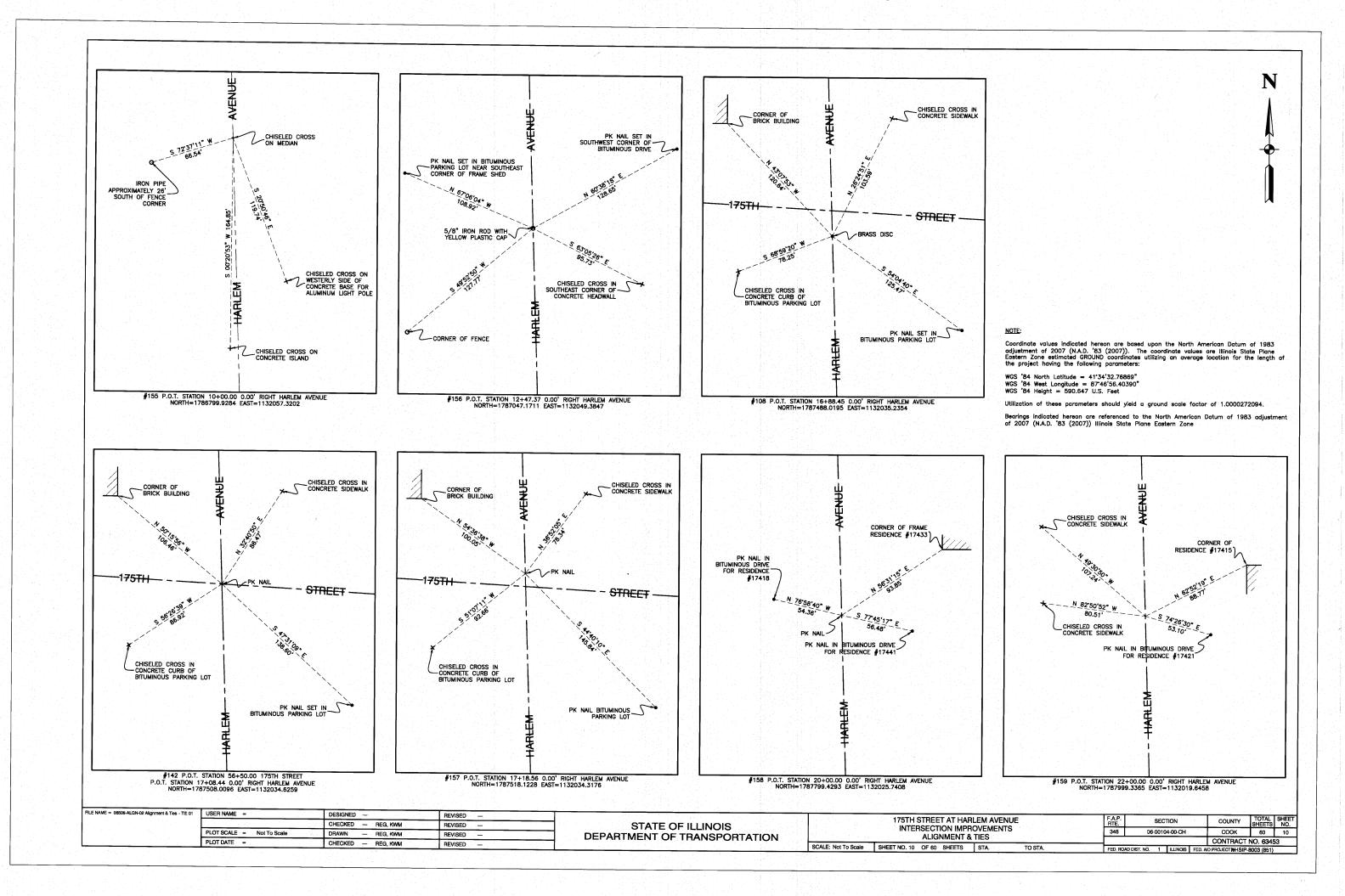
PCC SIDEWALK

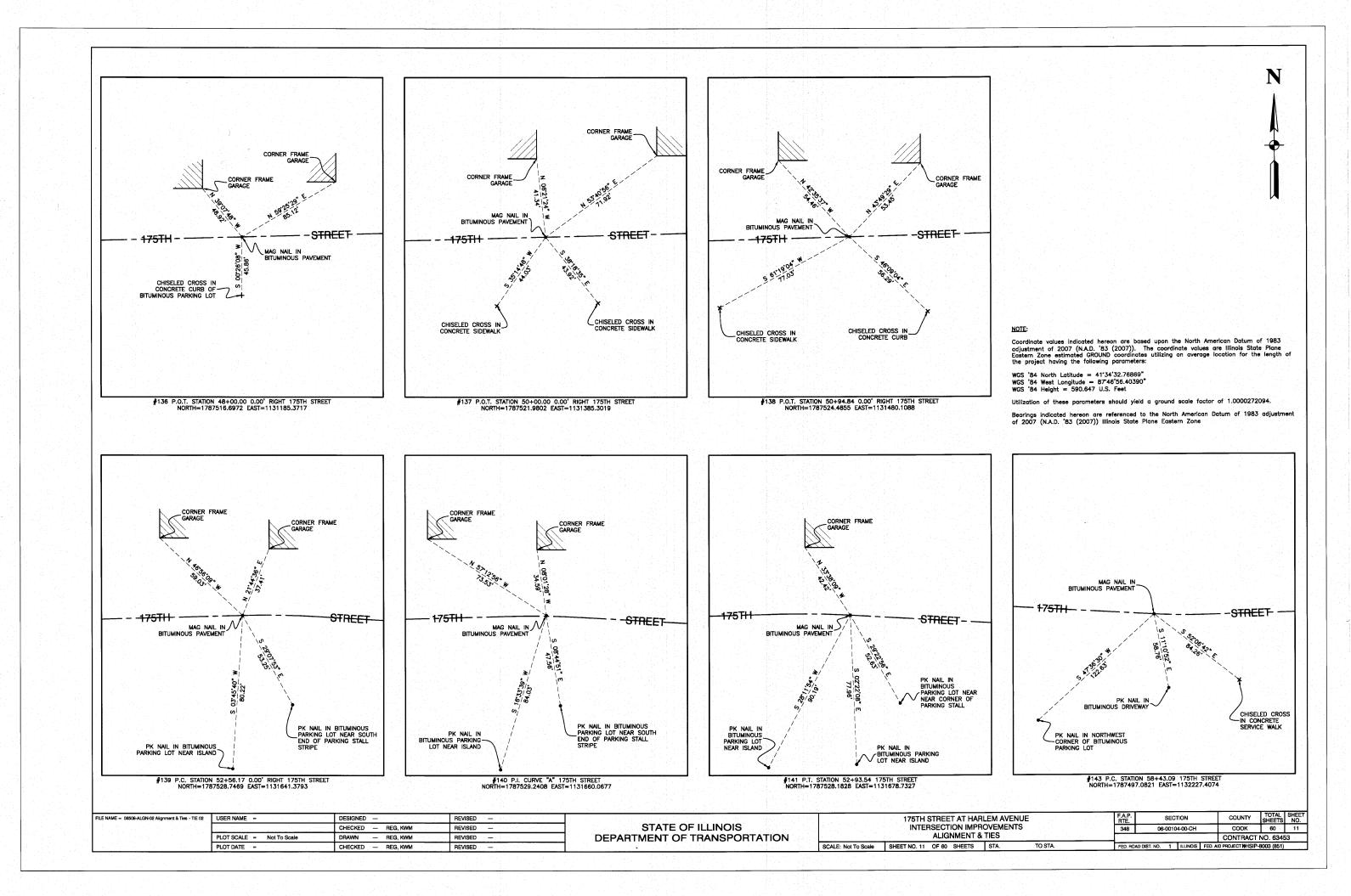
ITEMS TO BE REMOVED

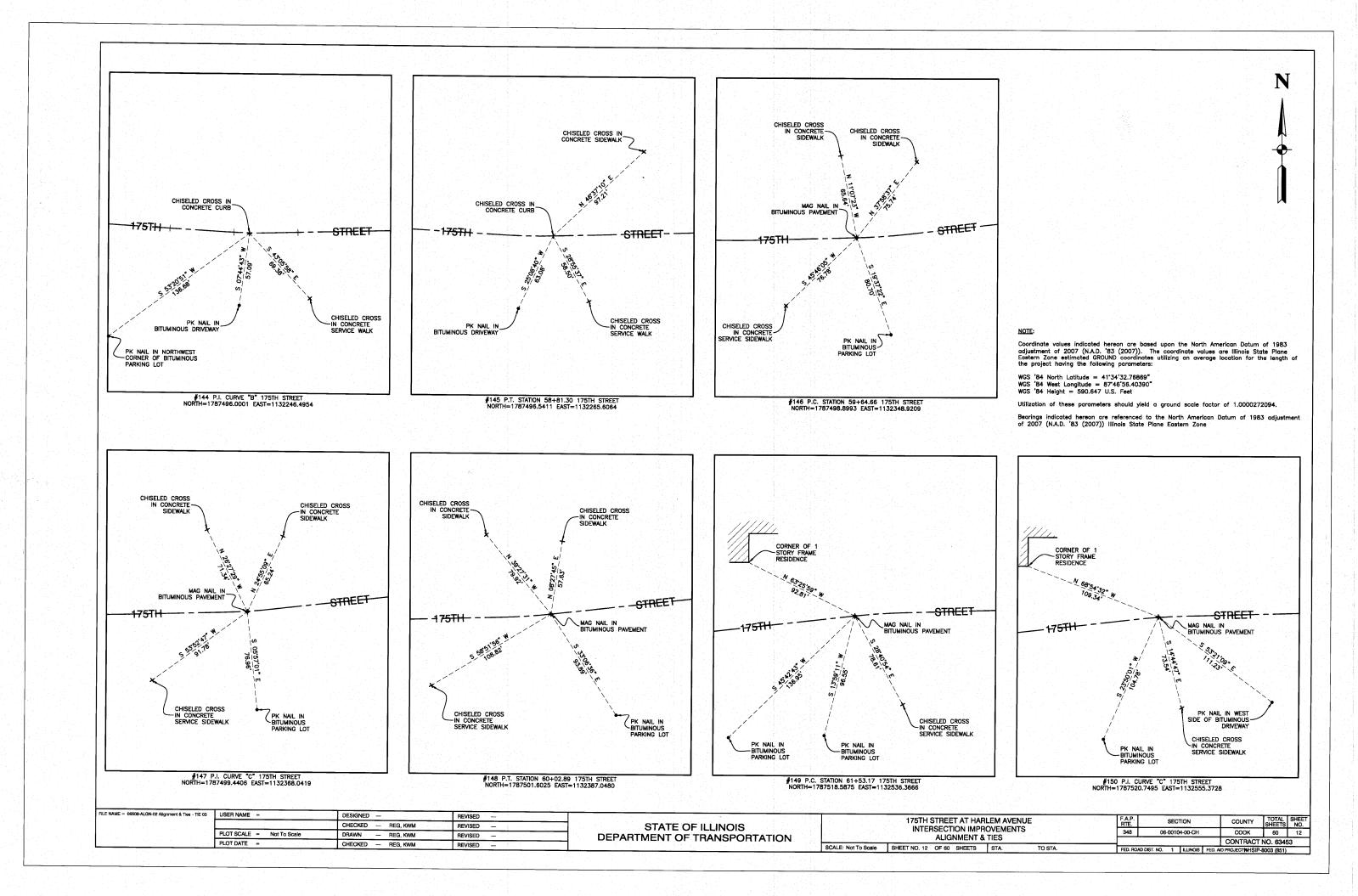
HMA SURFACE COURSE, MIX "D", N50, 2" POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 34" HMA BINDER COURSE, IL-19.0, N50, 6 1/4" LEVELING BINDER (MACHINE METHOD) N70, 3/4" PCC BASE COURSE, 10" AGGREGATE SUB-GRADE, 12" STABILIZED SUB-BASE, HMA, 4" TYPE B CURB, 6" TYPE B-6.12 COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24 COMBINATION CONCRETE CURB & GUTTER CONCRETE MEDIAN SURFACE COURSE, 4" PCC SIDEWALK, 5" SUB-BASE GRANULAR MATERIAL, 4" 15 SEEDING, CLASS 2A TOPSOIL, FURNISH & PLACE, 4" #8 DEFORMED BAR, 24" ● 24" C-C

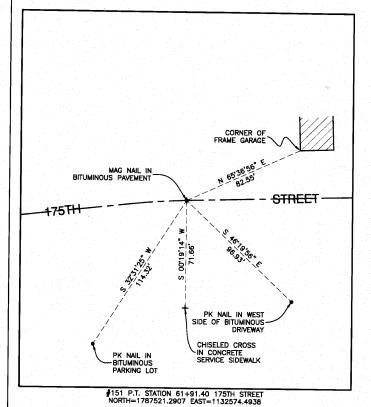
HMA SURFACE COURSE, MIX "C", N50, 2"

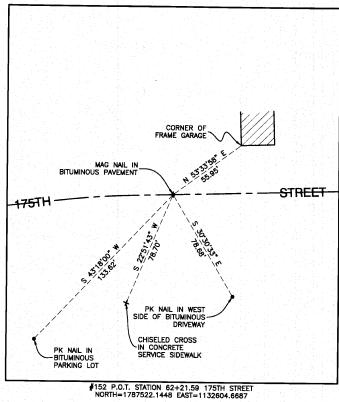
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

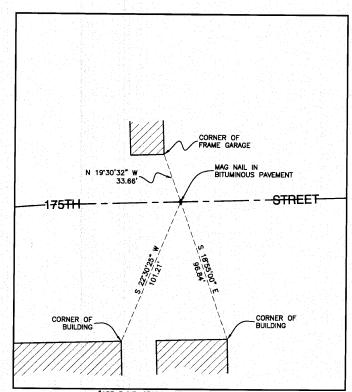












Utilization of these parameters should yield a ground scale factor of 1.0000272094. Bearings indicated hereon are referenced to the North American Datum of 1983 adjustment of 2007 (N.A.D. '83 (2007)) Illinois State Plane Eastern Zone

# CORNER OF 2 STORY FRAME -RESIDENCE CORNER OF 2 -STORY FRAME RESIDENCE STREET -175TH 3/4" IRON PIPE WITH YELLOW PLASTIC CAP

#154 P.O.T. STATION 65+00.00 175TH STREET NORTH=1787530.0222 EAST=1132882.9672

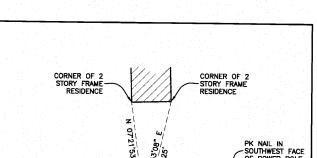
FILE NAME = 08508-ALGN-02 Alignment & Ties - TIE 04	USER NAME -	DESIGNED —	REVISED —
The second of the second		CHECKED — REG, KWM	REVISED —
	PLOT SCALE = Not To Scale	DRAWN — REG, KWM	REVIȘED —
	PLOT DATE =	CHECKED — REG, KWM	REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

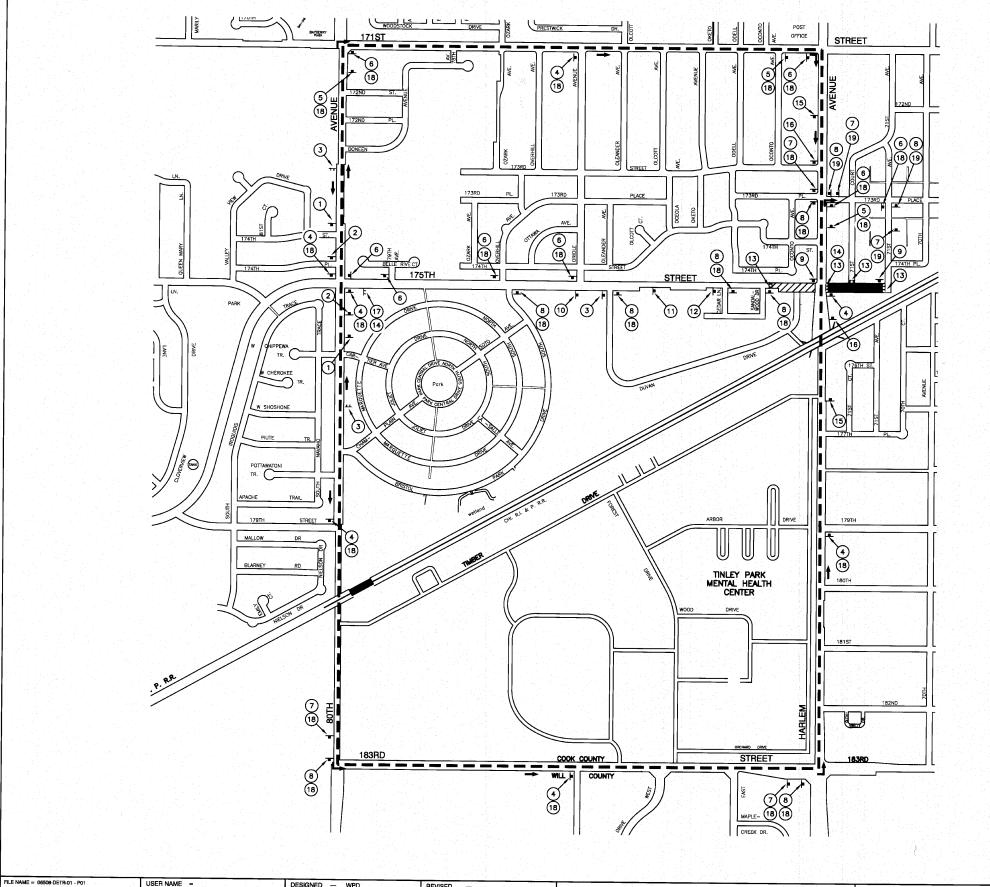
_						
	175TH STREET AT HARLEM AVENUE	F.A.P. RTE.	SECTION	COUNTY		HEET NO.
	INTERSECTION IMPROVEMENTS ALIGNMENT & TIES	348	06-00104-00-CH	соок	60	13
i	SCALE: Not To Scale SHEET NO. 13 OF 60 SHEETS STA. TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED.	CONTRACT ND PROJECTIMESIP		

Coordinate values indicated hereon are based upon the North American Datum of 1983 adjustment of 2007 (N.A.D. \*83 (2007)). The coordinate values are Illinois State Plane Eastern Zone estimated GROUND coordinates utilizing an average location for the length of the project having the following parameters:

WGS '84 North Latitude = 41'34'32.76869" WGS '84 West Longitude = 87'46'56.40390" WGS '84 Height = 590.647 U.S. Feet



#153 P.O.T. STATION 63+00.00 175TH STREET NORTH=1787524.3634 EAST=1132683.0473



# **LEGEND**

π TYPE III BARRICADE

■ SIGN

DETOUR ROUTE

→ DIRECTION OF TRAFFIC

CONSTRUCTION AREA CLOSED TO TRAFFIC (STAGE 1 ONLY)

CONSTRUCTION AREA WITH WESTBOUND TRAFFIC ONLY

# NOTES:

- 1. 175TH STREET EAST OF HARLEM AVENUE SHALL BE CLOSED ONLY DURING STAGE 1 CONSTRUCTION.
- WESTBOUND TRAFFIC SHALL BE MAINTAINED AT ALL TIMES FOR 175TH STREET WEST OF HARLEM AVENUE.

 USER NAME =
 DESIGNED — WPD
 REVISED —

 CHECKED — WPD
 REVISED —

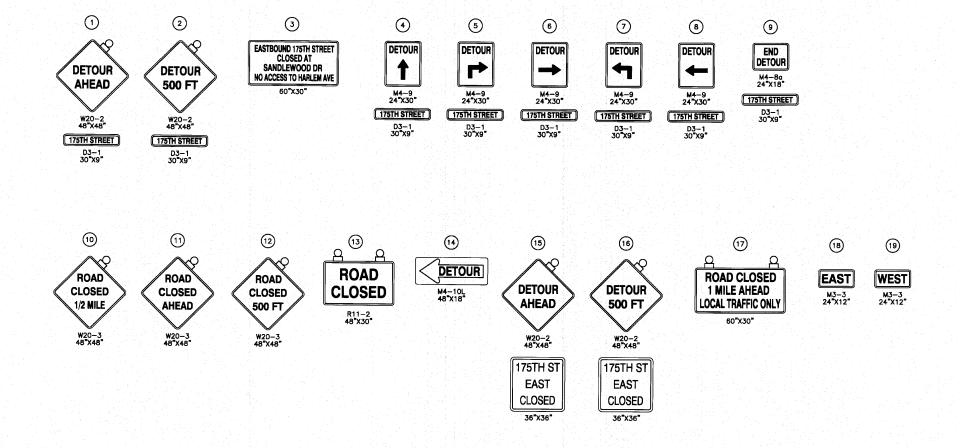
 PLOT SCALE = 1=20'
 DRAWN — AG
 REVISED —

 PLOT DATE = 10-14-10
 CHECKED — AG
 REVISED —

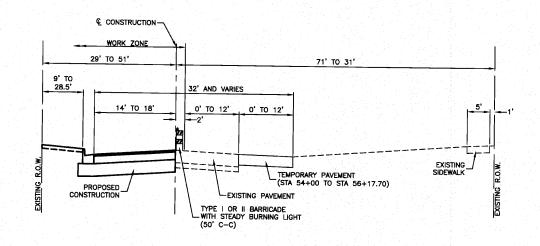
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

175TH STREET AT HARLEM AVENUE
INTERSECTION IMPROVEMENTS
DETOUR PLAN

SCALE: 1"=500" SHEET NO. 14 OF 60 SHEETS STA. TO STA.

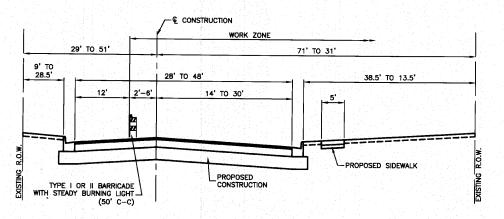


	FILE NAME = 06508-DETR-01 - P02	USER NAME =	DESIGNED — WPD	REVISED —	ATTILOTOPT AT MADI CIA AVENUE	OTAL   SHEET
9.3			CHECKED — WPD	REVISED —	STATE OF ILLINOIS  175TH STREET AT HARLEM AVENUE INTERSECTION IMPROVEMENTS  FAP: SECTION COUNTY TO SHE COUNTY	EETS NO.
1.11		PLOT SCALE = 1=20'	DRAWN — AG	REVISED —	DEPARTMENT OF TRANSPORTATION  DETOUR PLAN SIGN LEGEND  348 06-00104-00-CH COOK COOK COOK COOK COOK COOK COOK CO	60 15
		PLOT DATE = 10-14-10	CHECKED — AG	REVISED -	TONING INC.	63453
					SCALE: NA SHEET NO. 15 OF 60 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT MHSIP-RB03	3 (851)

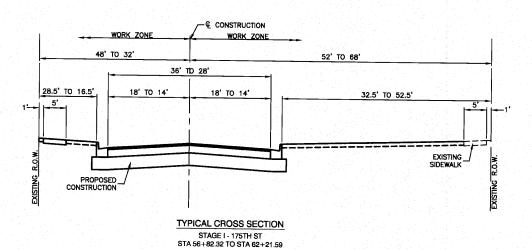


TYPICAL CROSS SECTION

STAGE I - 175TH STREET STA 50+94.84 TO STA 56+17.70



STAGE 2 - 175TH STREET STA 50+94.84 TO STA 56+17.70



# TYPICAL CROSS SECTION

# SUGGESTED STAGING

# Pre-Stage Construction

- Install temporary signals at 175th Street and Harlem Avenue.
- Remove curb and gutter and construct temporary pavement along the south side of 175th Street from approximate Station 54+00 to Station 56+17.70 as shown on the Suggested Construction Staging - Stage I plan sheet.
- Change out any drainage structure frame and grates located in the removed curb and gutter that conflict with the temporary pavement.

Pre-Stage Traffic Control

The work to be performed in the Pre-Stage shall be completed using Highway Standard 701701.

- Stage 1 Construction

  Construct proposed drainage and pavement for 175th Street east of Harlem Avenue.
- Construct proposed drainage and pavement for the north half of 175th Street west of Harlem Avenue.

  Construct the proposed median and pavement widening for the northbound left turn lane along Harlem Avenue.

- Stage 1 Traffic Control

   Establish and maintain the detour route for westbound 175th Street traffic west of Harlem Avenue utilizing 171st Street, 183rd Street and 80th Avenue
- Establish and maintain the local detour route for the east leg of 175th Street utilizing 173rd Street east of Harlem Avenue. Close 175th Street east of Harlem Avenue. Driveway entrances through closure must be maintained at all times. Contractor to provide access to driveways from
- Tlst Avenue.

  The work to be performed along Harlem Avenue shall be completed using Highway Standard 701701.

  175th Street west of Harlem Avenue Maintain 1- 12' westbound lane
- utilizing the existing and temporary pavement on the south side of the street.

Stage 2 Construction

Construct the remaining drainage improvements and proposed pavement for the south half of 175th Street west of Harlem Avenue.

# Stage 2 Traffic Control

- Eliminate the local detour route and open 175th Street east of Harlem Avenue. Place temporary markings as shown on the Stage 2 Staging
- Continue to maintain the detour route for westbound 175th Street traffic west of Harlem Avenue utilizing 171st Street, 183rd Street and 80th
- Avenue.

   175th Street west of Harlem Avenue Maintain 1- 12' westbound lane on the north half of newly constructed pavement.

- Stage 3 Construction

  Place final pavement markings.

  Install street lighting.

  Install permanent traffic signals and remove temporary traffic signals.
- Perform final grading operations and place sod.
- Post final signing.

Stage 3 Traffic Control

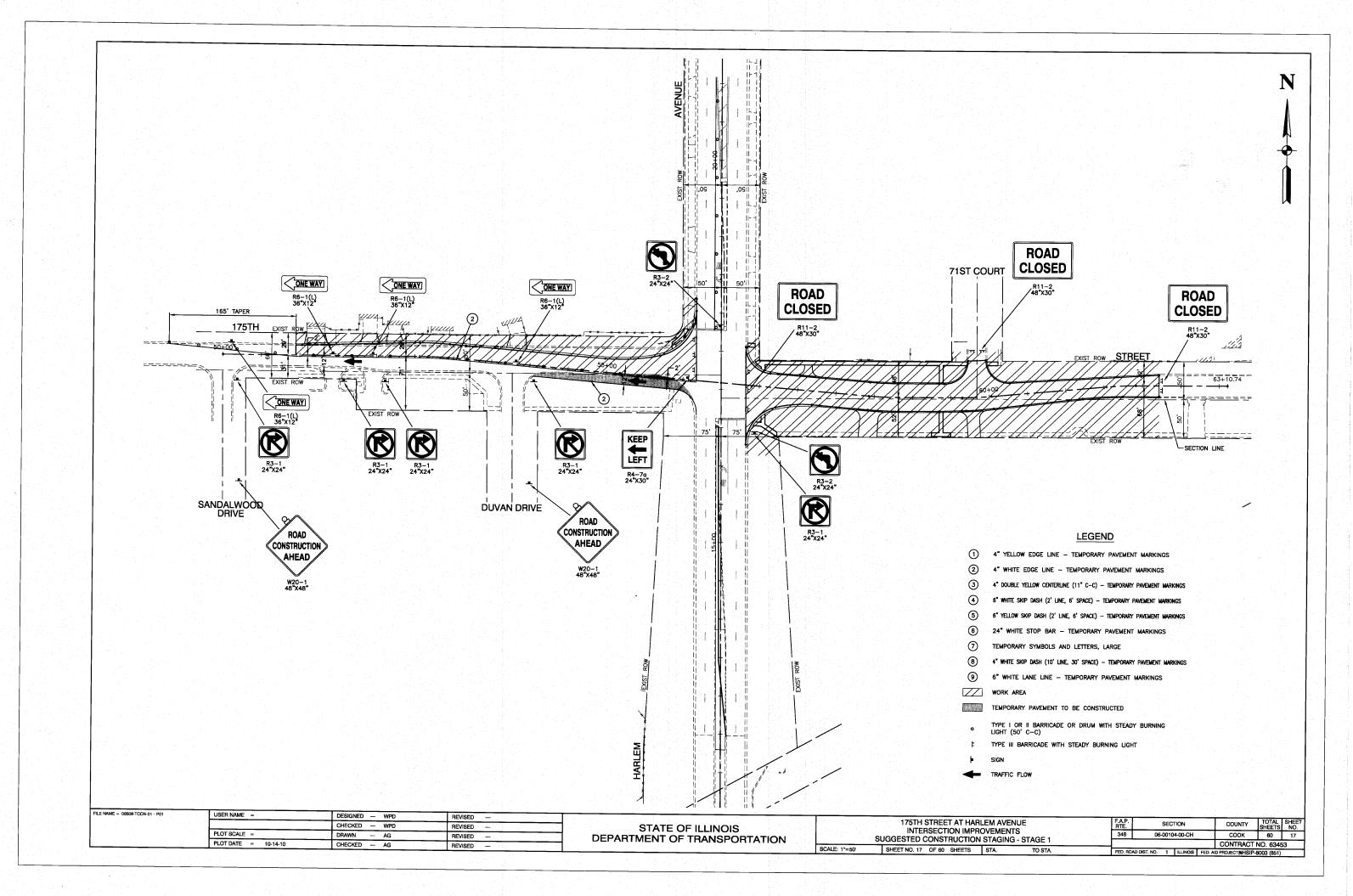
• The work to be performed in this stage will be completed using Highway Standards 701101, 701606 and 701701.

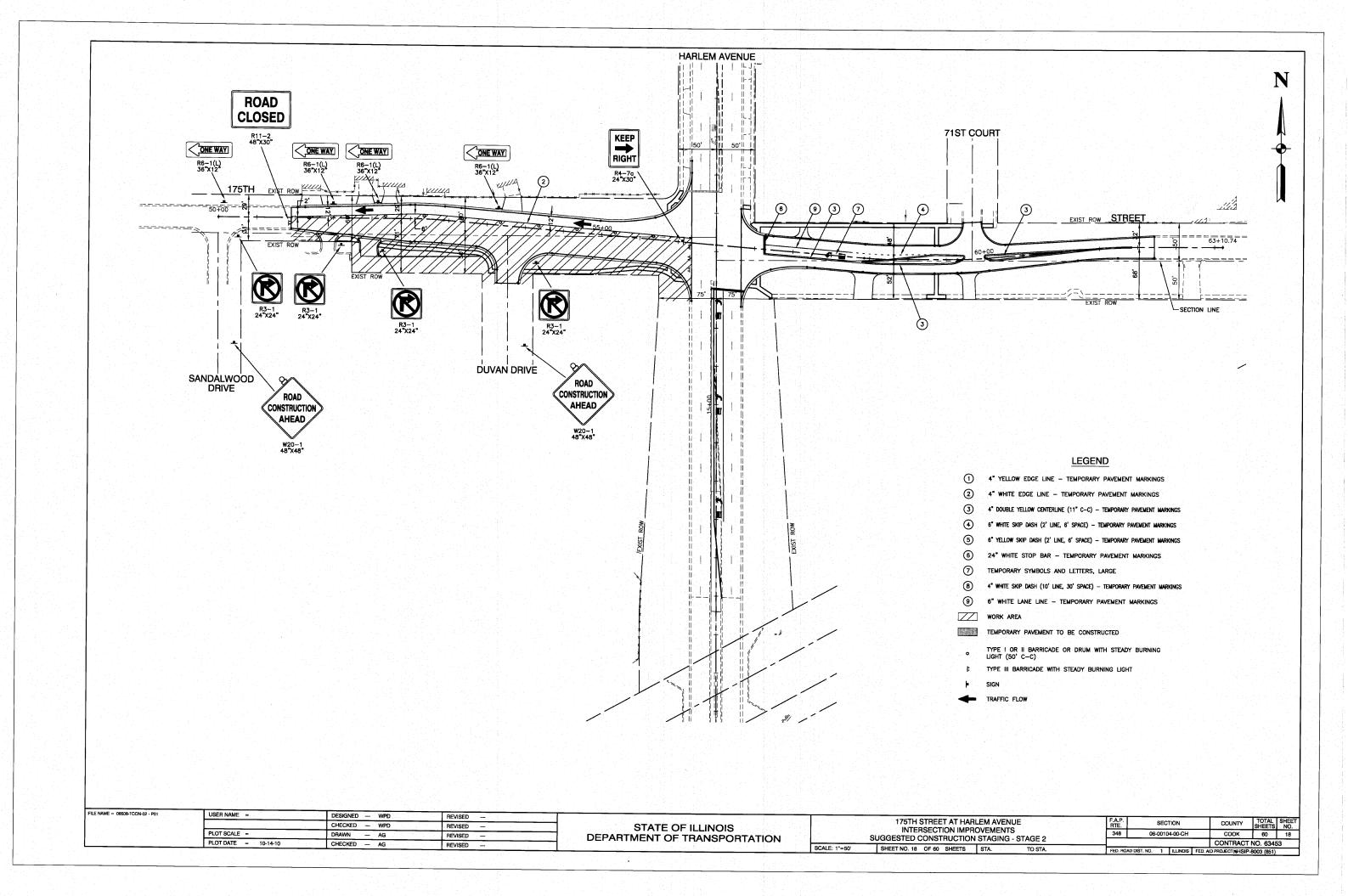
and the state of	USER NAME =	DESIGNED —	WPD	REVISED —
		CHECKED -	WPD	REVISED —
	PLOT SCALE =	DRAWN -	AG	REVISED —
	PLOT DATE = 10-14-10	CHECKED -	ACAD	REVISED —

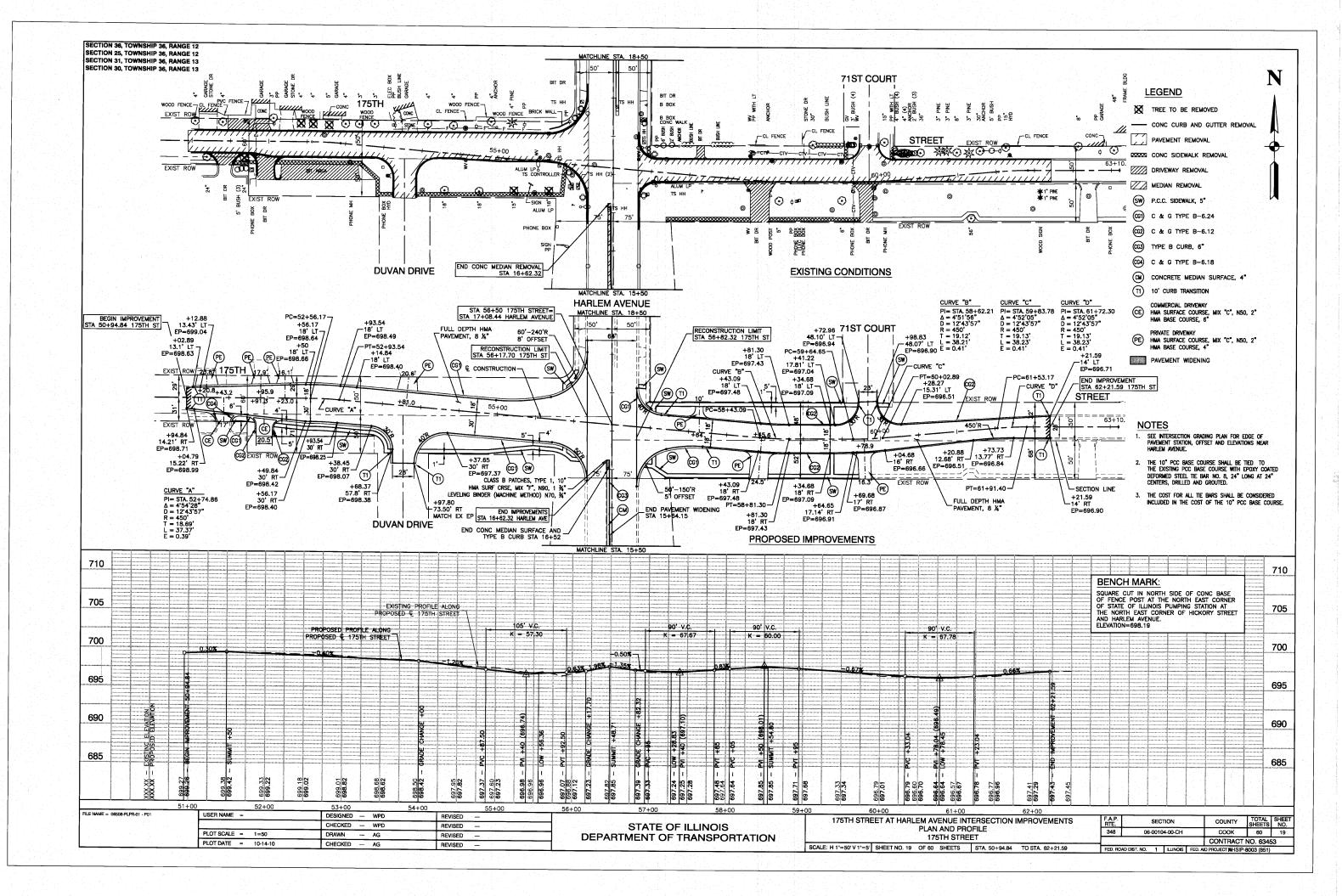
FILE NAME = 06508-TYPX-02

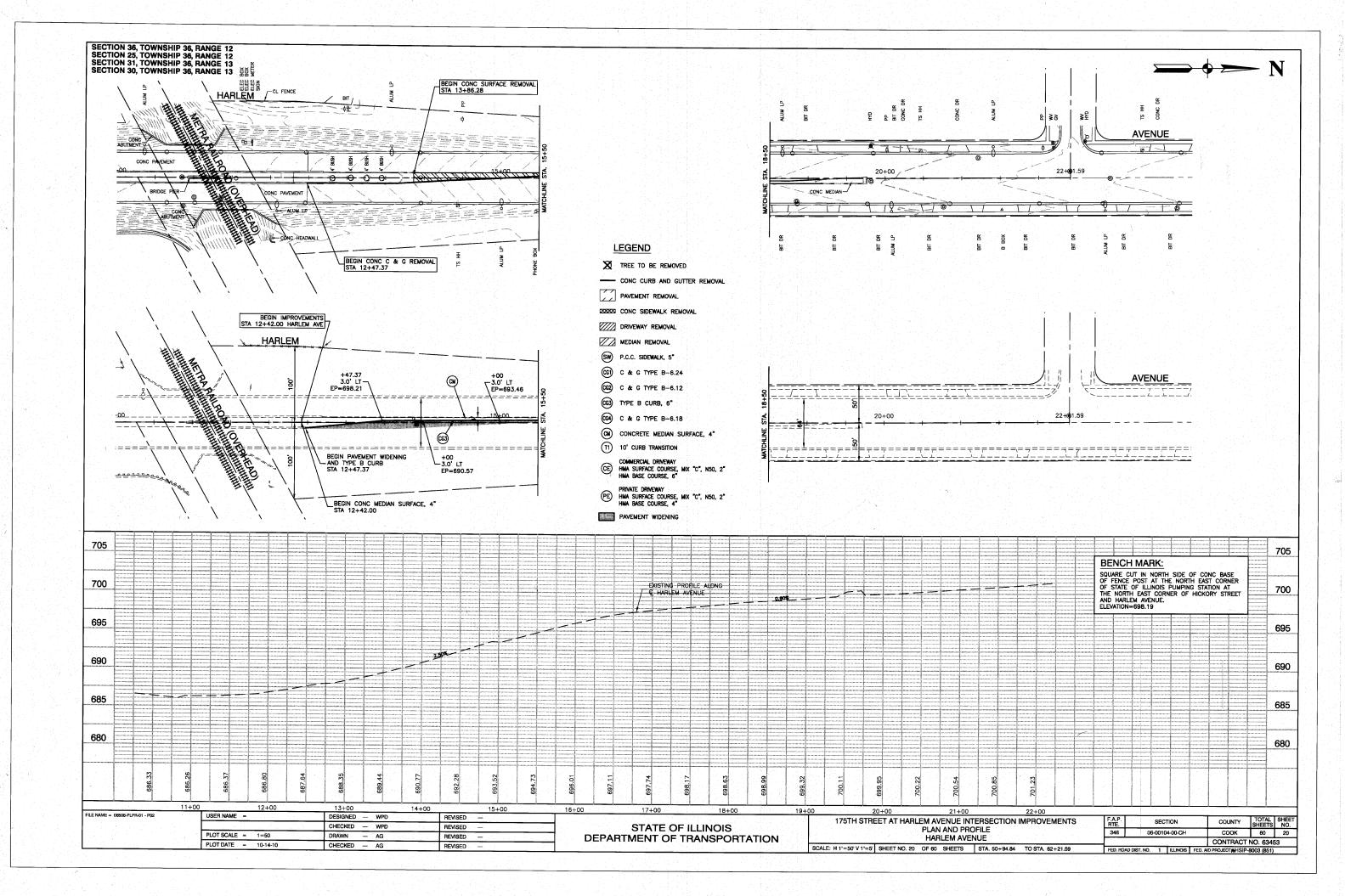
STATE OF ILLINOIS		
DEPARTMENT OF TRANSPORTAT	ION	

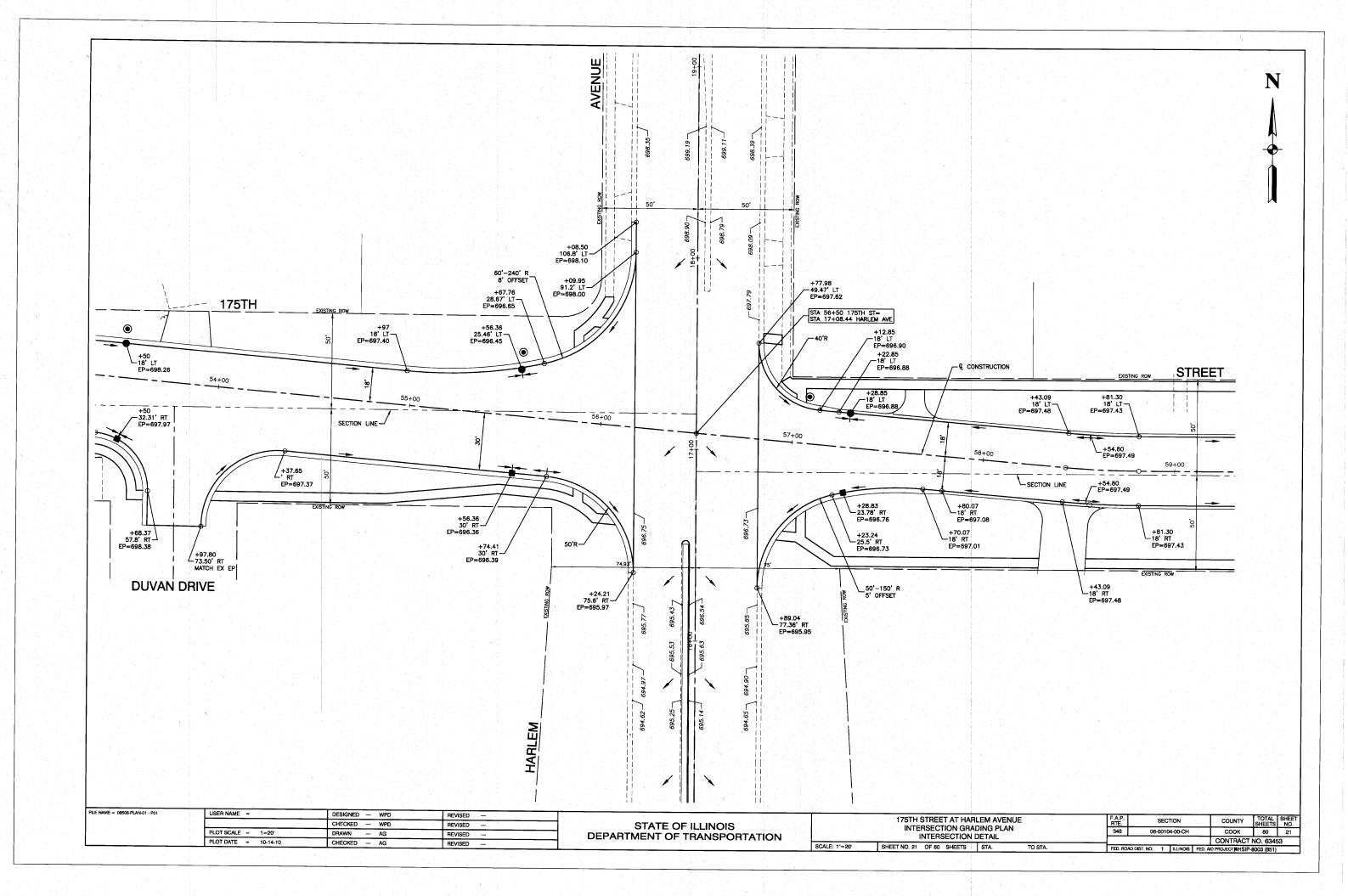
TYPICAL CROSS SECTION 348 06-00104-00-CH	соок	60 16
SCALE: NA SHEET NO 16 OF 60 SHEETS STA TO STA	CONTRACT	

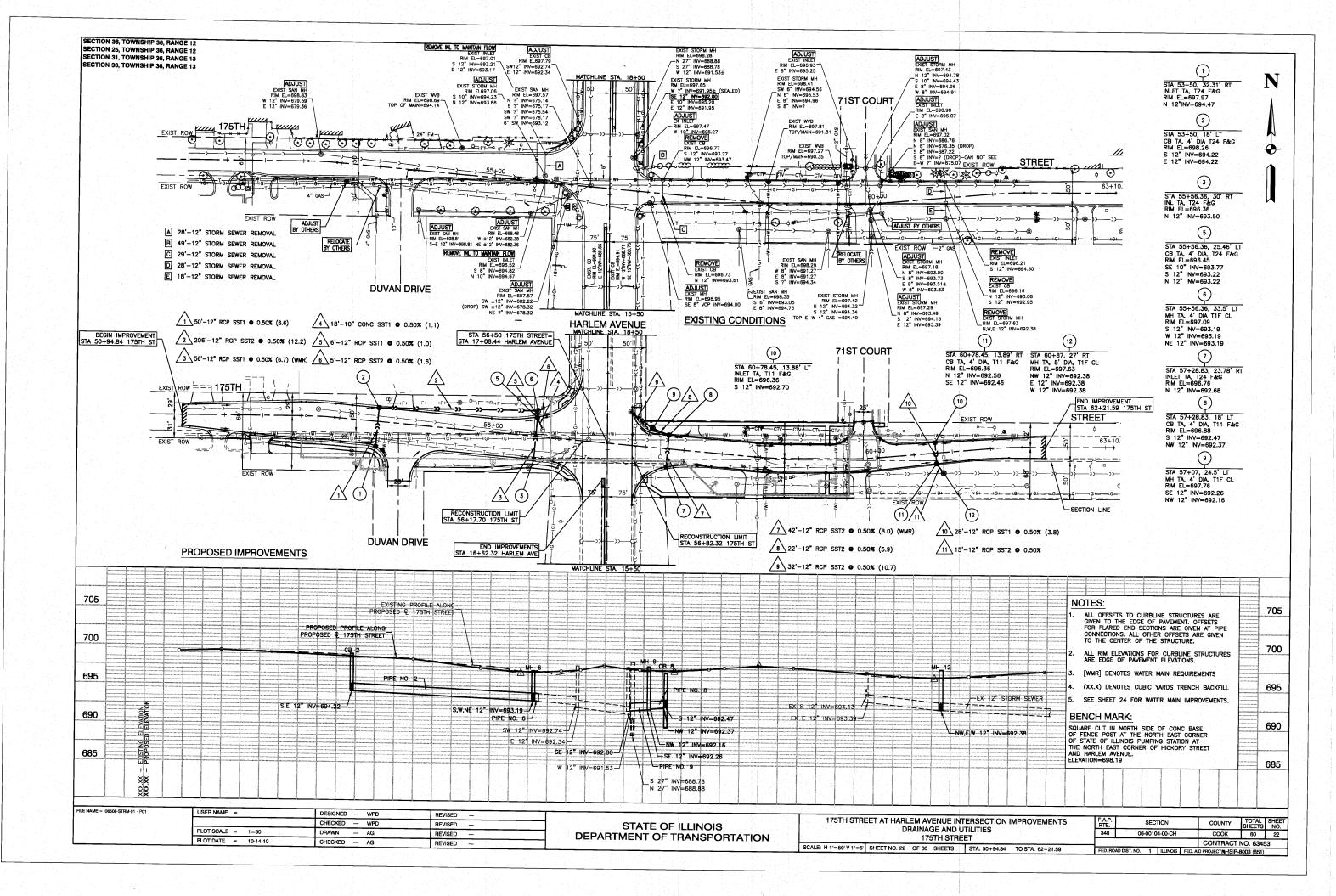


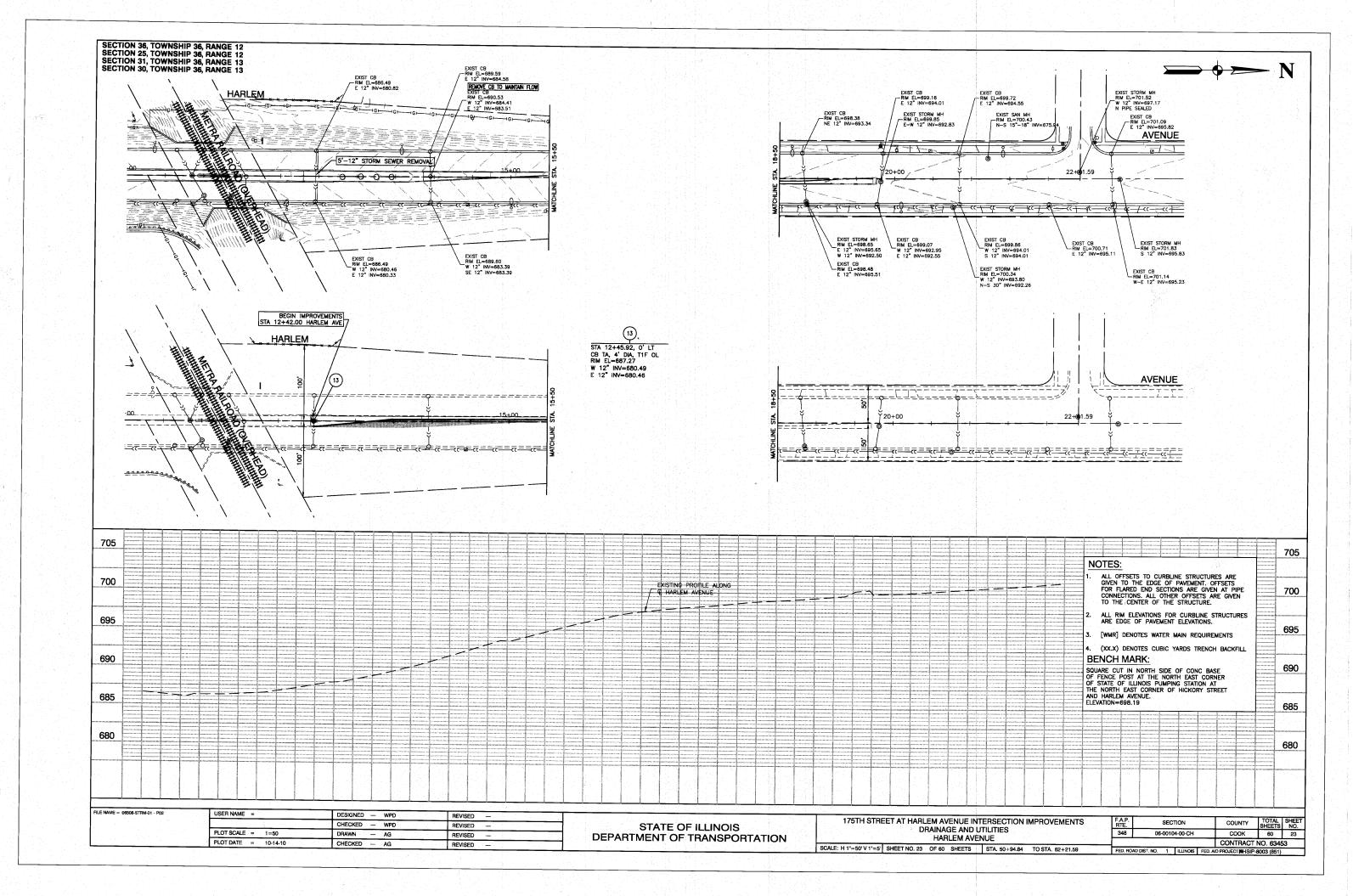


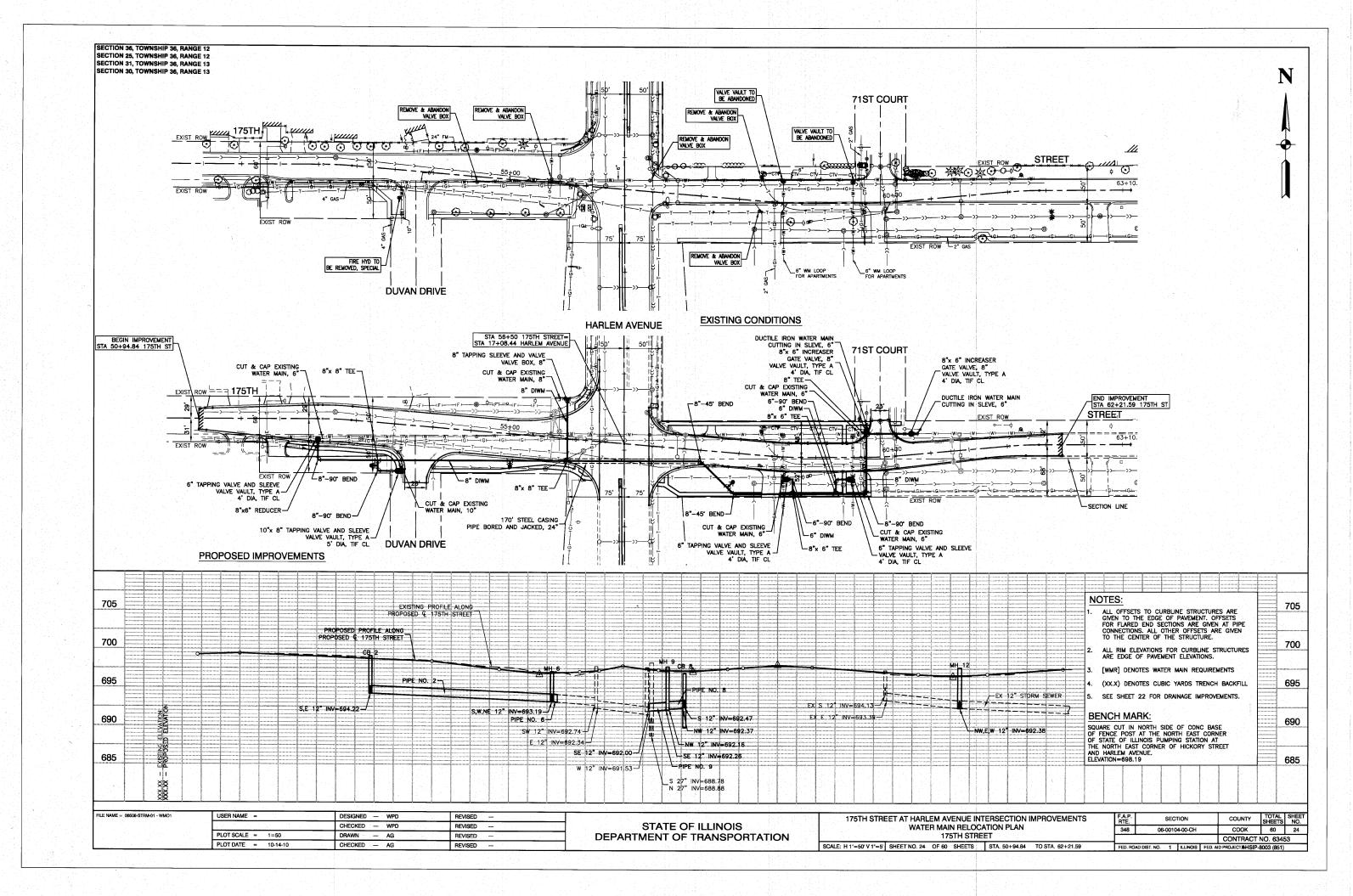


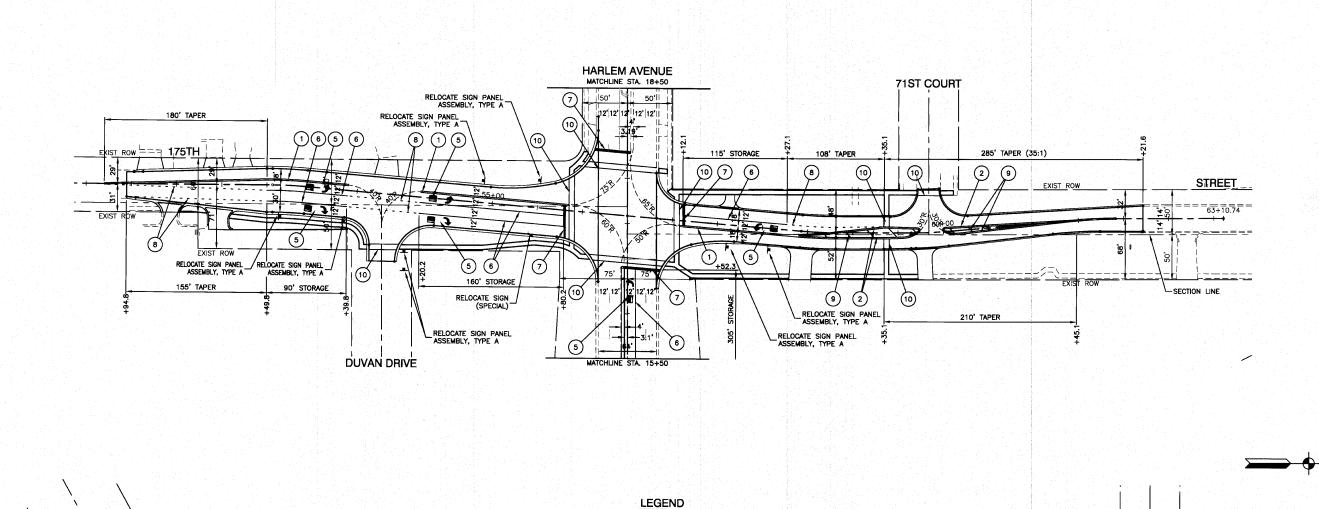


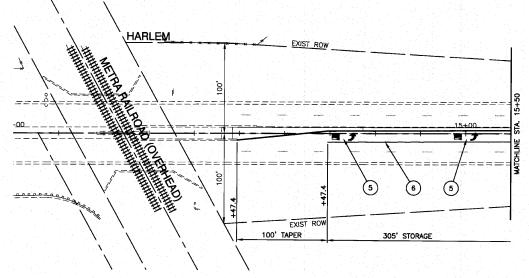












- 1) 4" DOUBLE YELLOW CENTERLINE (11" C/C)
- 2 4" DOUBLE YELLOW MEDIAN OUTLINE (11" C/C)
- 3 4" WHITE SKIP DASH (10' LINE, 30' SPACE)
- 4) 12" YELLOW DIAGONAL (25' C/C)
- 5 WHITE LETTERS & SYMBOLS LARGE
- 6 6" WHITE LANE LINE
- 7 24" WHITE STOP BAR
- 8) 6" WHITE SKIP DASH (2' LINE, 6' SPACE)
- (9) 12" YELLOW DIAGONAL (20' C/C)
- (10) 6" WHITE CROSSWALK (6' C/C)

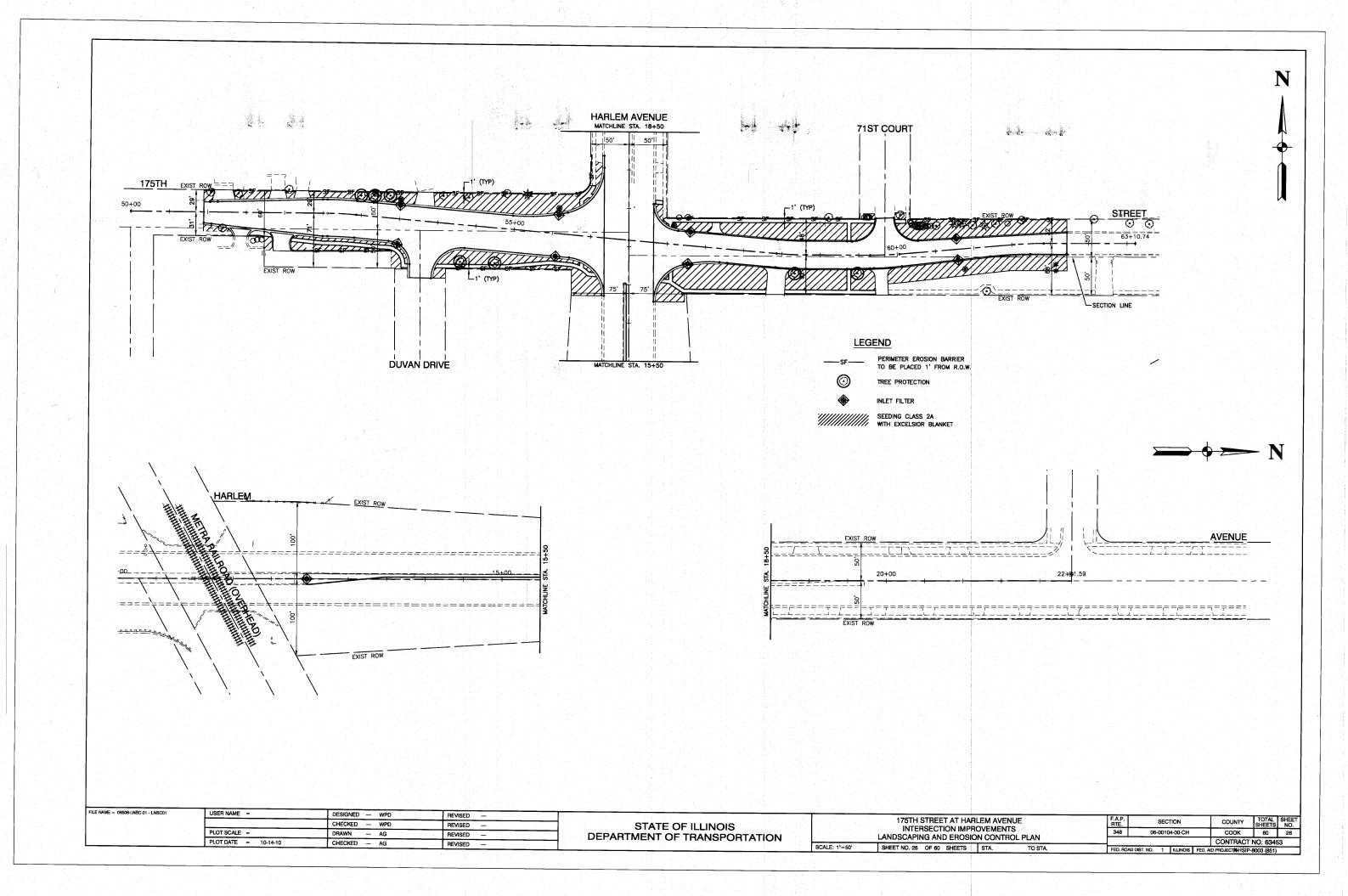
# NOTES:

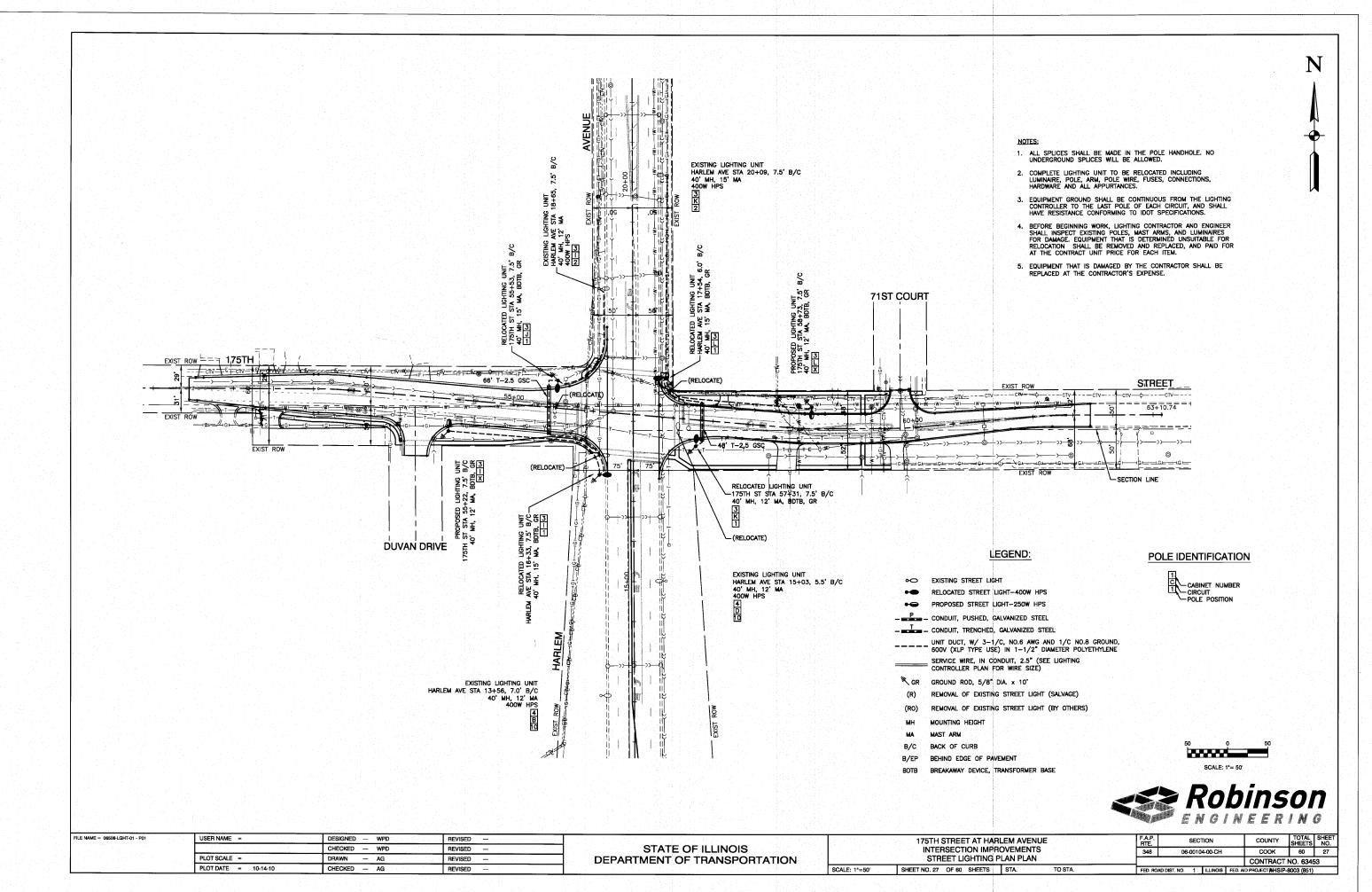
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

	EXIST ROW			AVENUE
			<u></u>	
Notice and the second	00.00	22+⊕1	<b>50</b>	
====±=================================	20+00	22191	.09	<del>-   -   -  </del>
		description.		
<u> </u>	EXIST ROW		7 = = = = = = = = = = = = = = = = = = =	

1				
	FILE NAME = 06508-PVMK-01 - P01	USER NAME =	DESIGNED — WPD	REVISED —
			CHECKED — WPD	REVISED —
		PLOT SCALE =	DRAWN — AG	REVISED —
ı		PLOT DATE = 10-14-10	CHECKED — AG	REVISED —

		 						1.0	1
	175TH STREET AT HARLEM AVENUE	F.A.P. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.	١
	INTERSECTION IMPROVEMENTS PAVEMENT MARKING AND SIGNING PLAN	348	06-0010	4-00-CH	119.5	COOK	60	25	ľ
	FAVEMENT MARKING AND SIGNING PLAN					CONTRACT	NO. 6345	53	ı.
SCALE: 1"=50"	SHEET NO. 25 OF 60 SHEETS STA. TO STA.	FED. RO	AD DIST. NO. 1	ILLINOIS	FED. All	D PROJECTAHISIP-8	3003 (851)		Г

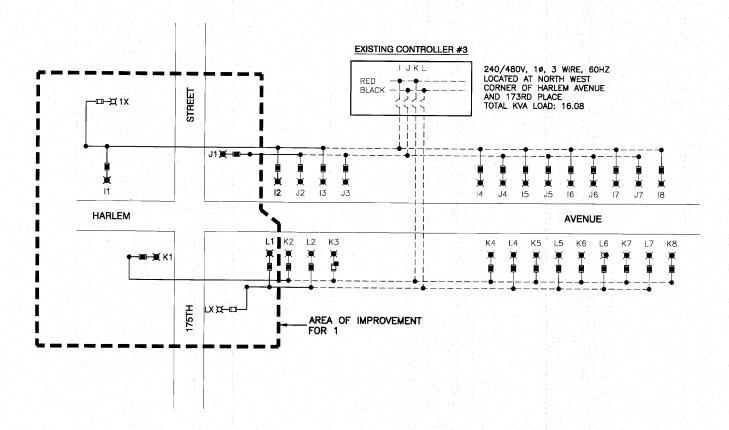




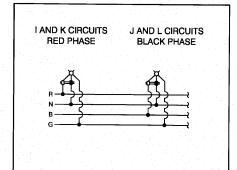


# LOAD TABULATIONS CONTROLLER #3

CIRCUIT	WATTS		@ 240V
		RED PHASE	BLACK PHASE
Park to the	4,129	17.30	28.7
J	3,346	100	14.00
K	3,824	16.00	
Li.	3,173	100	13.30
SUBTOTAL	14,472	33.30	27.30
1 4 4 4 4 4 4	TOTAL A	MPS @ 240 V	60.60



# TYPICAL POLE WIRING



# LEGEND

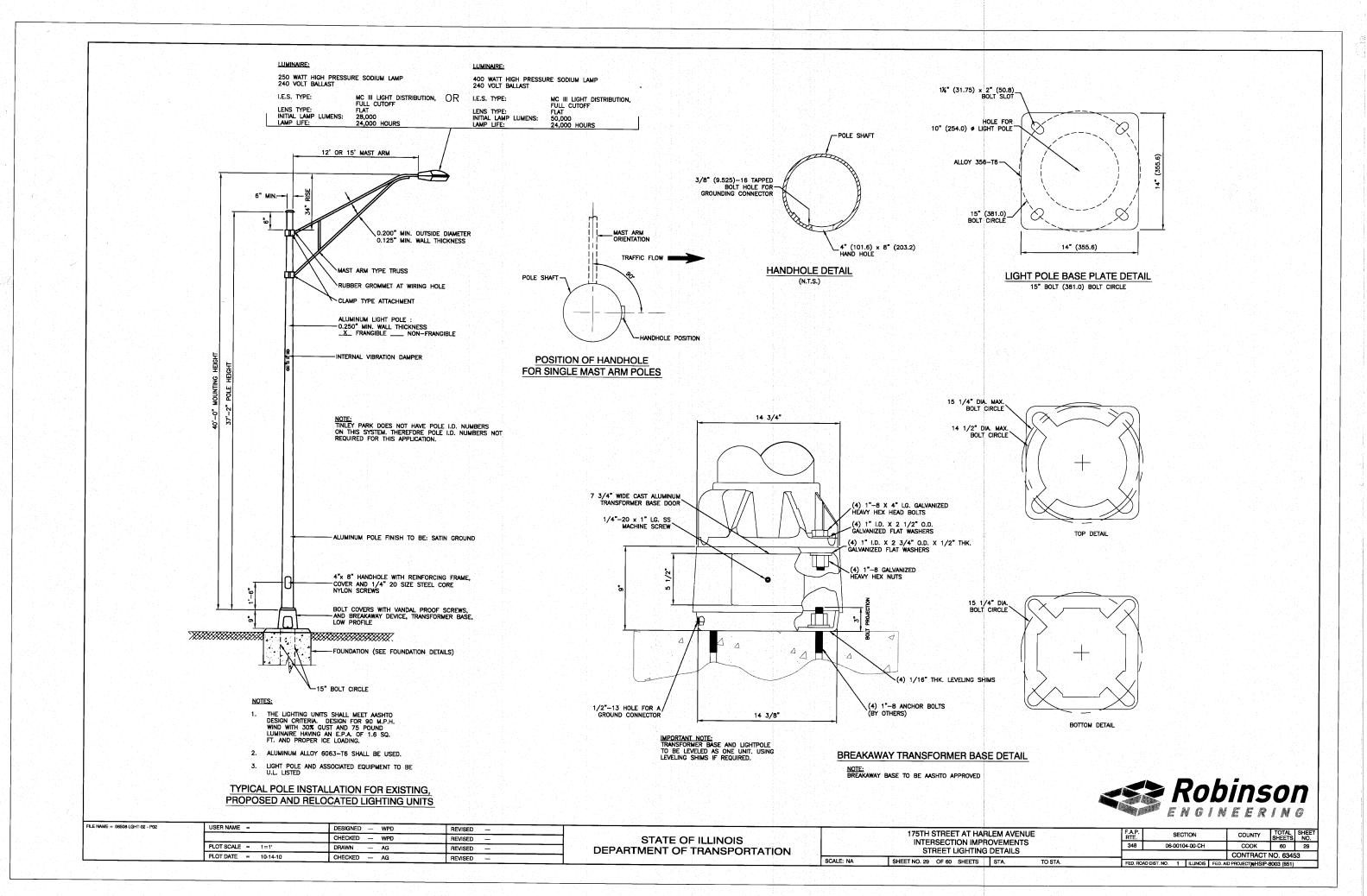
- X LUMINAIRE, 250W HPS, 240V
- LUMINAIRE, 400W HPS, 240V
- FUSE, 3.5 AMP
- FUSE, 6.0 AMP
- A1 LUMINAIRE CIRCUIT
- CIRCUIT BREAKER
- CONNECTION

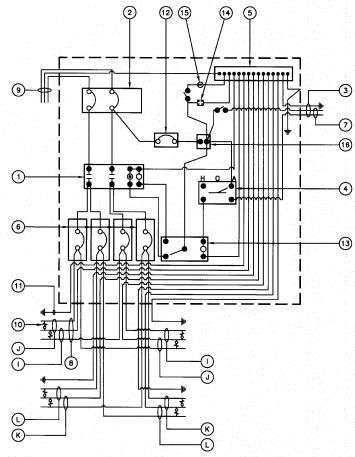


FILE NAME = 06508-LGHT-02 - P01	USER NAME =	DESIGNED — WPD	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE = 1=1	DRAWN — AG	REVISED —
	PLOT DATE = 10-14-10	CHECKED - AG	REVISED

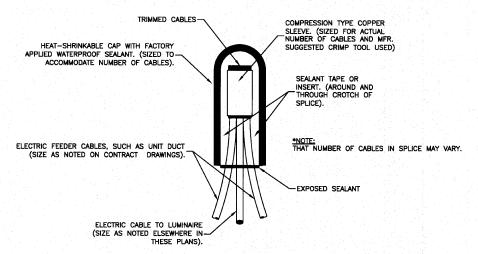
	INTER	RSECT	ION IMP	RLEM AVENU ROVEMENTS G DIAGRAM	
ALE: NA	SHEET NO. 28	OF 60	SHEETS	STA.	TO STA.

-	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-1	348	06-00104-00-CH	соок	60	28
		The second second	CONTRACT	NO. 634	3
	CCD DO	AD DICT NO. 4 ULUNOID	FED. AID DOO JEGEAL LOUD.	2000 (054)	





**EXISTING CONTROLLER WIRING DIAGRAM** CONTROLLER NO. 3



# SPLICING ELECTRIC CABLES **BASIC MATERIALS AND METHODS**

# **EXISTING CONTROLLER WIRING DIAGRAM LEGEND**

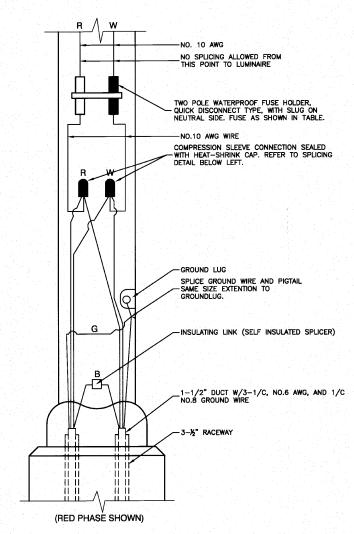
- 100 AMP, 2 POLE , 240 VOLT LIGHTING CONTACTOR
- 2 100 AMP, 2 POLE, 240 VOLT MAIN CURCUIT BREAKER
- PHOTOELECTRIC CONTROL MOUNTED TO TOP OF NEAREST LIGHT POLE
- HAND-OFF-AUTO SELECTOR SWITCH
- (5) NEUTRAL GROUND BUS
- 6 25 AMP, 1 POLE, 240 VOLT BRANCH CIRCUIT BREAKER
- (7)2-1/C, NO. 10 AWG, 600V INSTALLED IN 1" DUCT TO NEAREST POLE
- **B** 3-1/C, NO. 6 AWG, 600V IN 1-1/4" DUCT
- 3-1/C, NO. 1/0, 600V SERVICE WIRE IN 2" GALVANIZED STEEL CONDUIT FOR 240/480, 1 $\phi$ , 3 WIRS, 60HZ SERVICE 9
- 10 IN LINE FUSEHOLDERS WITH 10 AMP FUSES
- (1) NO. 8 BARE GROUND WIRE
- 12 15 AMP BRANCH CIRCUIT BREAKER
- (3) (A) 10 AMP, SPDT, 120 VOLT RELAY
- <u>(14)</u> GROUNDED THREE WIRE, 120 VOLT DUPLEX OUTLET
- **(15)** SWITCH AND CABINET LIGHT
- 16 VOLTAGE TRANSFORMER

# LIGHTING GENERAL NOTES

- 1. ALL WORK TO CONFORM TO THE MOST RECENT NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL CODES.
- 2. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING OR AUGERING.
- 3. BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL C.E. Co. FOR APPROVAL OF LOCATION.
- 4. FOR LOCATION OF EXISTING UNDERGROUND ELECTRICAL CABLE CALL C.E. Co.
- CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING, (i.e. DECORATIVE ROCKS, SHRUBS, PLANTS, ECT.) OR SHALL REPLACE IT, THE COST OF WHICH SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 6. CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUIT, MAGNETIC DETECTORS AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUIT AND/OR EQUIPMENT IS DAMAGED. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT AT NO COST TO THE CITY OR STATE.
- 7. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACK FILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
- 8. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR CORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- 10. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
- 11. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
- 12. UNDERGROUND SPLICES OF LIGHTING CONDUCTORS WILL NOT BE ALLOWED EXCEPT AT LIGHT POLE BASE.
- CONDUITS AND UNIT DUCTS MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREE, BUSHES, DRAINS AND OTHER UTILITIES.

NOMINAL WATTAGE FUSE SIZE

LUMINAIRE FUSE SIZE TABLE



# POLE HANDHOLE WIRING DIAGRAM

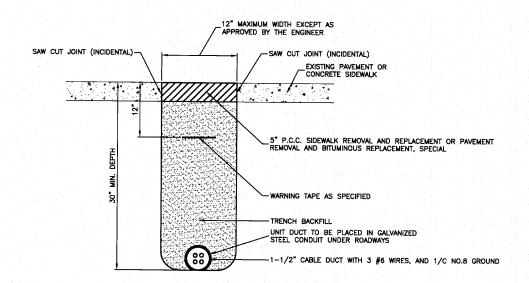
(TYPICAL FOR SINGLE LUMINAIRE INSTALLATION)

NOTE: ALLOW 36" LOOP OF CABLES TO INSURE SUFFICIENT SLACK FOR WITHDRAWAL OF THE CONNECTORS OUTSIDE OF THE POLE HANDHOLE.



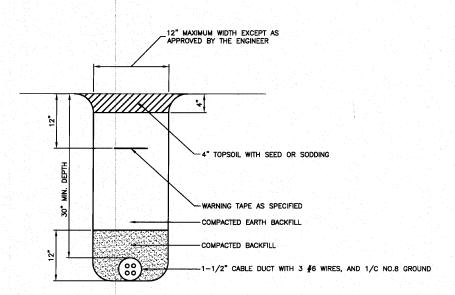
FILE NAME = 06508-LGHT-02 - P03 USER NAME = DESIGNED — WPD REVISED 175TH STREET AT HARLEM AVENUE COUNTY TOTAL SHEET NO.

COOK 60 30 SECTION CHECKED — WPD REVISED -STATE OF ILLINOIS INTERSECTION IMPROVEMENTS 348 06-00104-00-CH STREET LIGHTING DETAILS PLOT SCALE = 1=1 DRAWN — AG REVISED -**DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 63453 PLOT DATE = 10-14-10 TO STA. CHECKED — AG BEVISED SCALE: NA SHEET NO. 30 OF 60 SHEETS STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECTIVHSIP-8003 (851)



NOTE: WHERE UNIT DUCT IS INSTALLED OUTSIDE OF THE INTERSECTION RECONSTRUCTION AREA, THE DUCT SHALL BE BORED AND PULLED WHEREVER POSSIBLE.

HOT-MIX ASPHALT PAVEMENT OR CONCRETE SIDEWALK REMOVAL AND REPLACEMENT



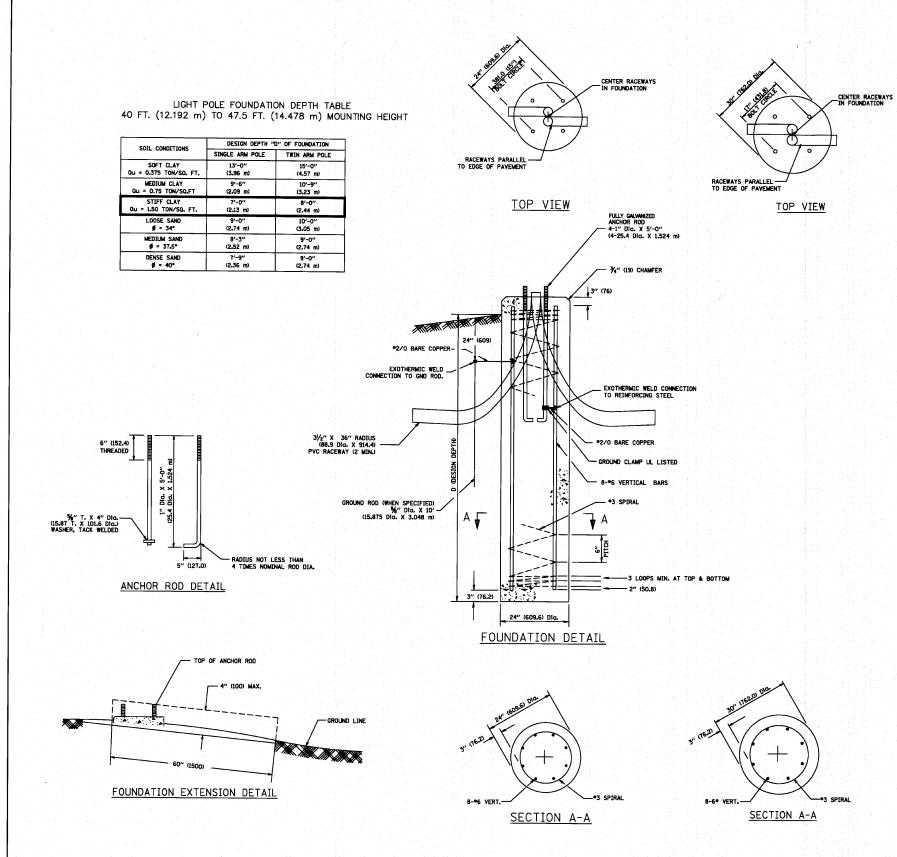
TRENCH DETAIL



FILE NAME = 06508-LGHT-02 - P04	USER NAME =	DESIGNED — WPD	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE = 1=1'	DRAWN — AG	REVISED —
	PLOT DATE = 10-14-10	CHECKED — AG	REVISED —

	175TH STREET AT HARI	LEM AVENUE	
	INTERSECTION IMPRO		
SCALE: NA	SHEET NO. 31 OF 60 SHEETS	STA. TO STA.	

		<u> Paristan di Balantan</u>	-47.5			territoria.			
į	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
٠,	348	06-00104-00-CH	1987	COOK	60	31			
ì	CONTRACT NO. 63453								
	EED BO	SED BOAD DIST NO. 1 HI INDIS SED AID BBO ISCTMURID BOOS (851)							





- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE
  BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR ROOS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. 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.
- 5. 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 1/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. 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.
- 8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE T25 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH ASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMM6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1356.
- 10. 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.
- 11. ANCHOR RODS SHALL PROJECT 2¾" (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.
- 12. 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.
- 14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- 15. GROUND RODS SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR LIGHT POLE FOUNDATION, 24" DIAMETER.



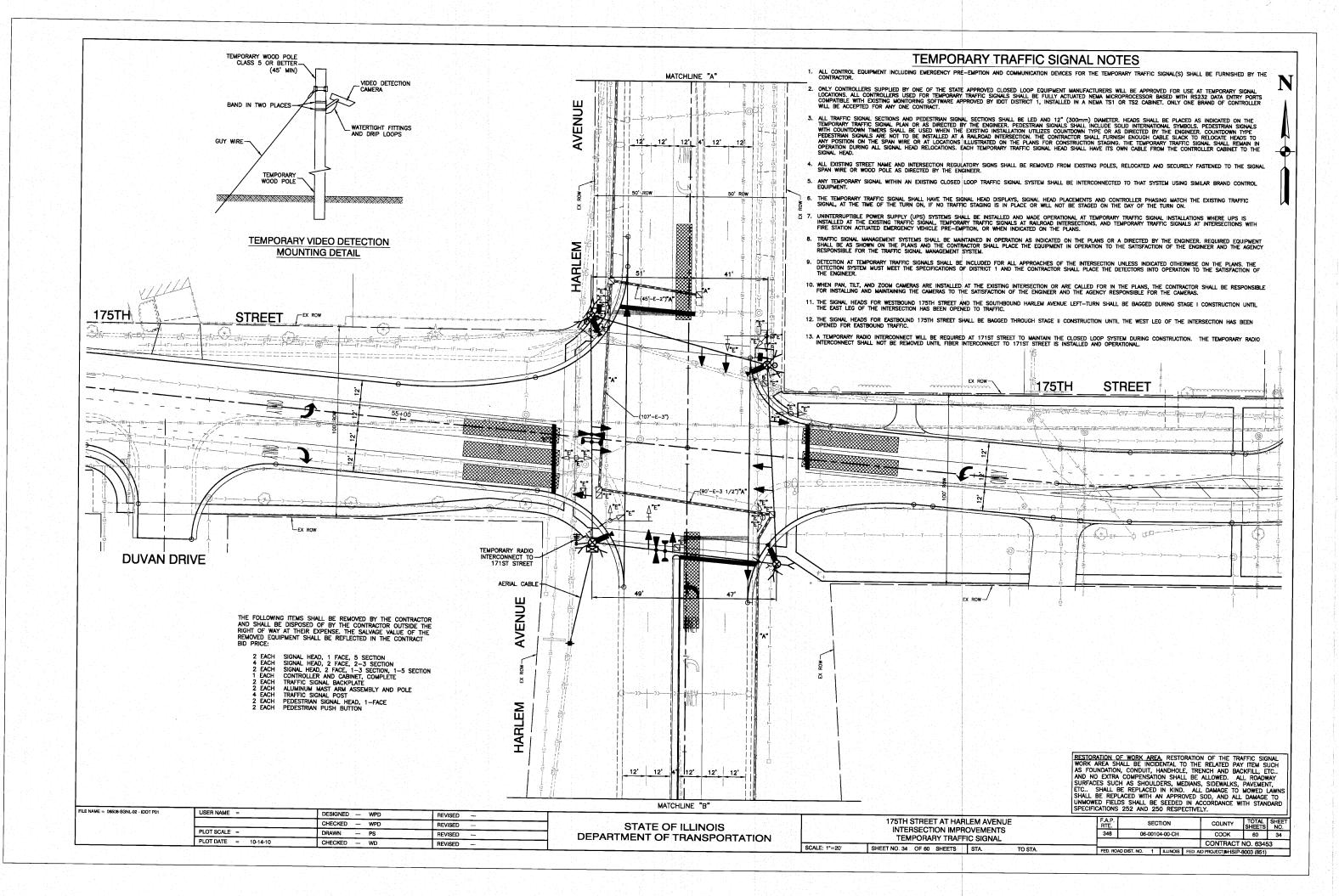
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

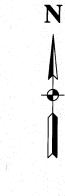
175TH STREET AT HARLEM AVENUE
INTERSECTION IMPROVEMENTS
STREET LIGHTING DETAILS

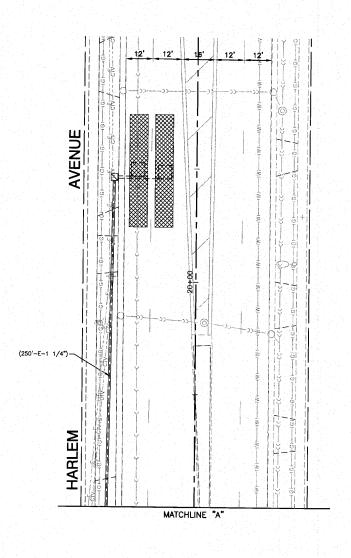
SHEET NO. 32 OF 60 SHEETS STA. TO STA.

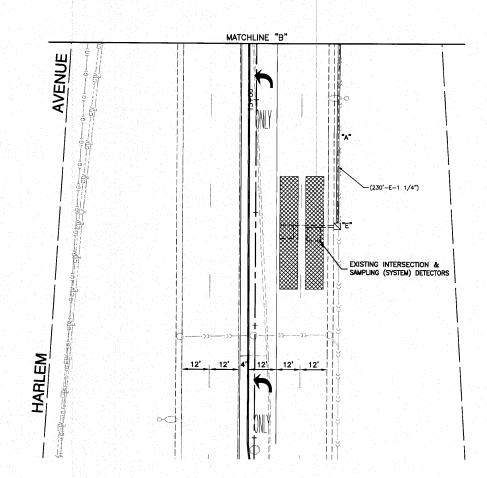
SCALE: NA

				TRAFFIC	SIGNAL	<u>LEGEN</u>	<u>ID</u>					
<u>TEM</u>	REMOVAL	<u>EXISTING</u>	<u>PROPOSED</u>	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM		REMOVAL	EXISTING	PROPOSED
ONTROLLER CABINET	⊠ <sup>R</sup>	$\boxtimes$		EMERGENCY VEHICLE LIGHT DETECTOR	R≪	——		ELECTRIC CABLE IN CONDUIT,				— <u></u>
AILROAD CONTROL CABINET				CONFIRMATION BEACON	R <sub>o-(1</sub>	o <u>-</u> (1		NO. 14 1/C, UNLESS NOTED OT	HERWISE			
DMMUNICATIONS CABINET	C C R	ECC	CC					COAXIAL CABLE			<u> </u>	—(c)—
ASTER CONTROLLER		EMC	[MC]	HANDHOLE	R □							
ASTER MASTER CONTROLLER		ЕММС	MMC	HEAVY DUTY HANDHOLE	° ∏	H	•	VENDOR CABLE FOR CAMERA			— <u>v</u>	(V)
NINTERRUPTIBLE POWER SUPPLY	UPS K	[EUPS]	[UPS]	DOUBLE HANDHOLE	R⊠⊠	<u> </u>		COPPER INTERCONNECT CABLE,			ć	<u>—</u> 6—
ERVICE INSTALLATION, ) POLE OR (G) GROUND MOUNT	-□ <sup>R</sup>	- <b>-</b> f		JUNCTION BOX	R 🔘	0	•	NO. 18 3 PAIR TWISTED, SHIEL FIBER OPTIC CABLE	DED		<u> </u>	
LEPHONE CONNECTION	R	<b>P</b>	P	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				NO. 62.5/125, MM12F			-25-	
) POLE OR (G) GROUND MOUNT	R			TEMPORARY SPAN WIRE, TETHER WIRE.	R			FIBER OPTIC CABLE			<u>—245</u> —	—24F)—
EEL MAST ARM ASSEMBLY AND POLE	<sup>R</sup> O——	, o o	•	AND CABLE				NO. 62.5/125, MM12F SM12F				Ŭ
UMINUM MAST ARM ASSEMBLY AND POLE	R	<u> </u>	•	COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/ (NUMBER OF FIBERS & TYPE T			<u> </u>	
FEEL COMBINATION MAST ARM SEMBLY AND POLE WITH LUMINAIRE	<sup>R</sup> O-≭	o-×——	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NOTED ON PLANS)				
TEEL COMBINATION MAST ARM	R_			SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLS (H) HANDHOLE, (P) POST, (M) M			c ∥。	c <sub>I</sub>
SEMBLY AND POLE WITH PTZ CAMERA	PU	闸动	PZ	INTERSECTION ITEM		1	ΙP	OR (S) SERVICE				
GNAL POST	R <sub>O</sub>	0		REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF		
MPORARY WOOD POLE (CLASS 5 OR TTER) 45 FOOT (13.7m) MINIMUM	<sup>R</sup> ⊗	$\otimes$	•	RELOCATE ITEM	RL							
JY WIRE	>R	>	<i>→</i>	ABANDON ITEM	A			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED		ORMF		
SNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION		R	R	ALUMINUM MAST ARM POLE AND		RMF		
GNAL HEAD CONSTRUCTION STAGES	<b>R</b> ↑			12" (300mm) RED WITH 8" (200mm)		(A)		FOUNDATION TO BE REMOVED		· • • • • • • • • • • • • • • • • • • •		
JMBERS INDICATE THE CONSTRUCTION STAGE)			<b>→</b> <sup>2</sup>	YELLOW AND GREEN TRAFFIC SIGNAL FACE		<u> </u>		STEEL COMBINATION MAST ARM		RMF		
GNAL HEAD WITH BACKPLATE	+	+⊳				R	R	AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED		<del>0 ¤</del>		
GNAL HEAD OPTICALLY PROGRAMMED	R >"P"	- <b>⊳</b> ″p″	<b>→&gt;</b> "P"				Y	SIGNAL POST AND FOUNDATION		DME		
ASHER INSTALLATION	¬¬'			SIGNAL FACE			G ◀Y	TO BE REMOVED		RMF		
DENOTES SOLAR POWER)	O-Ö∕'F''	O∙D″F″	<b>●→</b> "F"			<b>E</b>	<b>4</b> G	INTERSECTION & SAMPLING			[IS]	IS
DESTRIAN SIGNAL HEAD	₽n			혈통 가지는데 안 마음을 수 많을 보는다.				(SYSTEM) DETECTOR				
DESTRUM PUSUBUTTON PETERAG	R_			SIGNAL FACE WITH BACKPLATE.		R	R	SAMPLING (SYSTEM) DETECTOR			s s	S
DESTRIAN PUSHBUTTON DETECTOR	R	(a)	•	"P" INDICATES PROGRAMMED HEAD			G	EXISTING INTERSECTION LOOP				
CESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	APS				<b>4</b> Y <b>4</b> C	PROPOSED INTERSECTION AND S	SAMPLING (SYSTEM) DETECT	OR		
LUMINATED SIGN	R			나는 그렇게 됐으고 있는데? 얼굴!		<u>(₹</u> 2)	"p"	EXISTING PREFORMED INTERSECTION AND S		OP	PP	
0 LEFT TURN"	<b>9</b>	<b>©</b>	•	12" (300mm) PEDESTRIAN SIGNAL HEAD		EM)		PREFORMED INTERSECTION AND		UN.		
.UMINATED SIGN D RIGHT TURN"	R (C)	<b>(20)</b>	ra i	WALK/DON'T WALK SYMBOL		(W)		(SYSTEM) DETECTOR	SAMPLING		PIS	PIS
	<u>IZ</u>	<b>®</b>	<b>@</b>	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM)	DETECTOR		PS	PS
TECTOR LOOP, TYPE I				내용하는 방향 함께 가고 하는 말로 하고 말로 하는								
EFORMED DETECTOR LOOP		[P]	P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			<b>* * *</b>		RAILROAD	SYMRO	210	
CROWAVE VEHICLE SENSOR	R M∑			PEDESTRIAN SIGNAL HEAD, INTERNATIONAL						O I IVID	yeu .	
		(M))	<b>∭</b> •	SYMBOL, WITH COUNTDOWN TIMER		<b>©</b> C <b>3</b> D	♥ C				EXISTING	<u>PROPOS</u>
DEO DETECTION CAMERA	R [♥]⊅	<b>(</b> V)1	<b>()</b>	RADIO INTERCONNECT	li R			RAILROAD CONTROL CABINET				
DEO DETECTION ZONE				THE THE PARTY OF T	<del>    •</del> 0	##••	<del>    •</del>					
	R			RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST AF	<b>₹M</b>	<b>)</b>	X <del>OX X</del>	Xex
N, TILT, ZOOM CAMERA		<b>₽</b> Z	<b>@</b>	DENOTES NUMBER OF CONDUCTORS, ELECTRIC		$\sim$		FLASHING SIGNAL			<del>Zo</del> Z	XOX
RELESS DETECTOR SENSOR	RW	<b>(W)</b>	W	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		_(5)	-5-	CROSSING GATE			<del>X0</del> <del>X</del> • X • X • X • X • X • X • X • X • X •	X0X=
RELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT		$\sim$		CROSSBUCK			*	`````````````````````````````````````
				NO. 6 SOLID COPPER (GREEN)		0	()					
	CHE	IGNED — DAG/BCK CKED — BCK	REVISED REVISED	<del> </del>	OF ILLINOIS			DISTRICT O		F.A.P. RTE.	SECTION	COUNTY
PLOT SCALE = 50.0000 '/ PLOT DATE = 11/4/2009	IN. DRA			DEPARTMENT O				STANDARD TRAFFIC SIGNA		348	06-00104-00-CH <b>TS-05</b>	COOK CONTRACT N







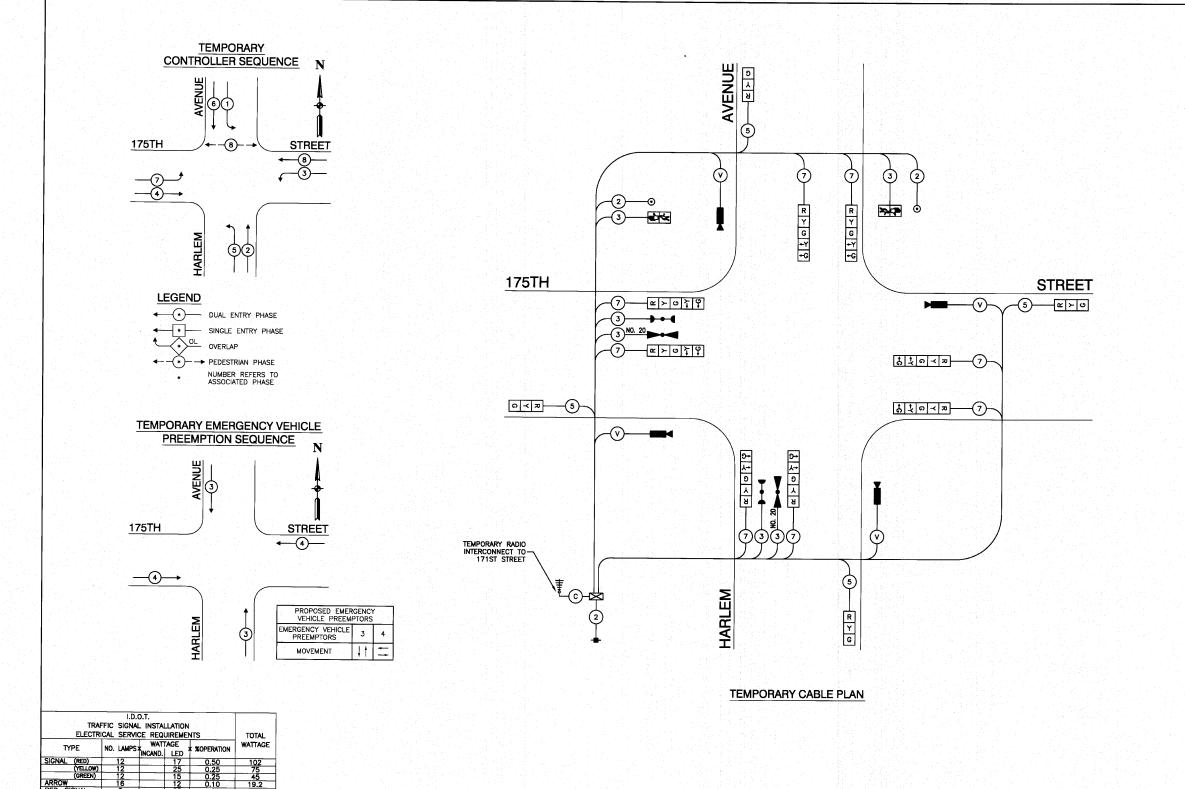


RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC.. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAYEMENT, ETC.. SHALL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

FILE NAME = 06508-SGNL-02 - IDOT P02	USER NAME =	DESIGNED - WPD	REVISED -
		CHECKED — WPD	REVISED —
	PLOT SCALE =	DRAWN — PS	REVISED —
	PLOT DATE = 10-14-10	CHECKED — WD	REVISED —

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	N

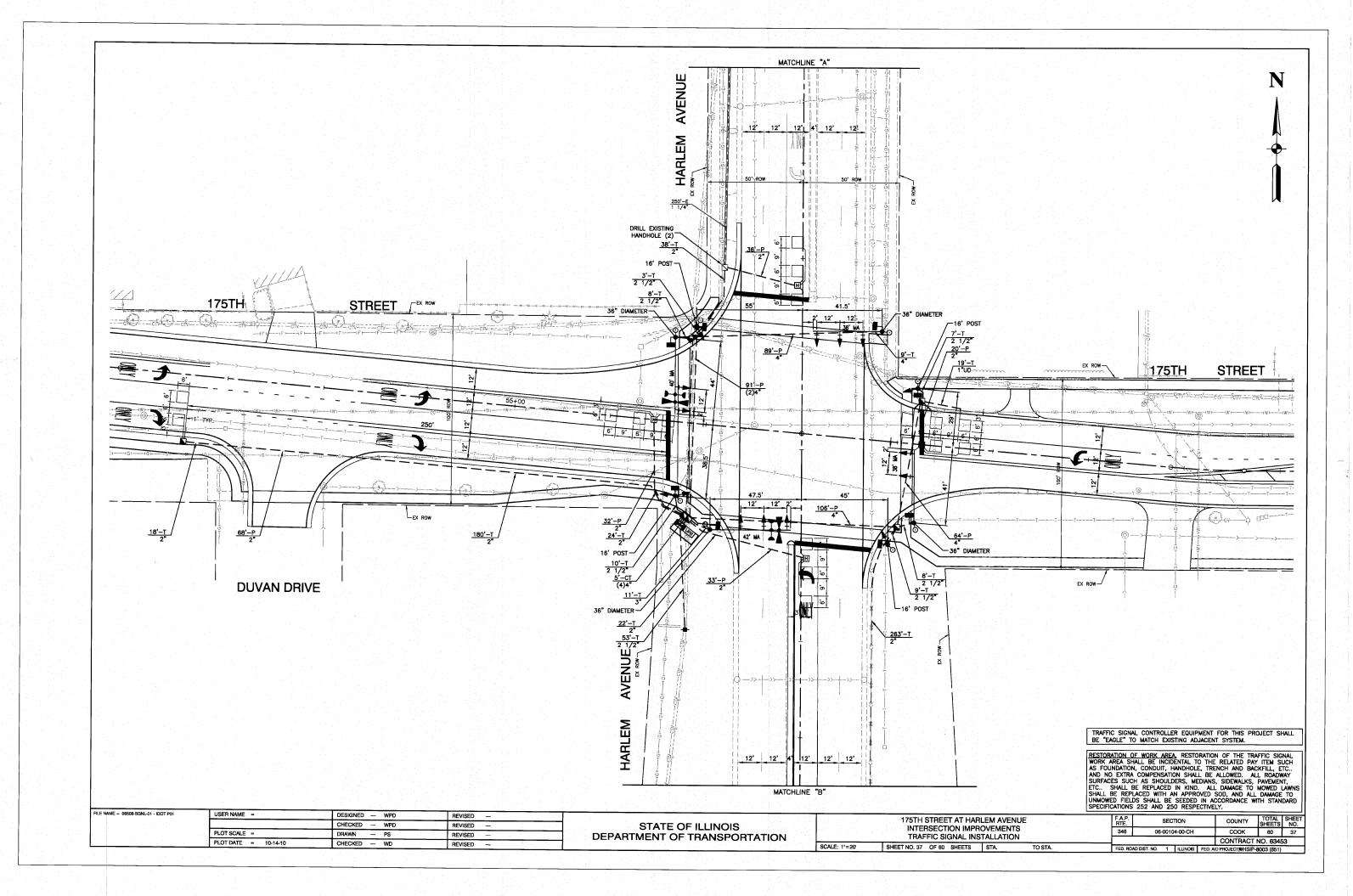
175TH STREET AT HARLEM AVENUE		F.A.P. RTE.	SECTIO	NC	COUNTY	TOTAL SHEETS	SHEET NO.
INTERSECTION IMPROVEMENTS TEMPORARY TRAFFIC SIGNAL	[	348	06-00104-	00-CH	соок	60	35
				<u> </u>	CONTRACT	NO. 634	53
SCALE: 1"=20' SHEET NO. 35 OF 60 SHEETS STA. TO STA.		FED. RC	DAD DIST. NO. 1	PROJECTMHSIP-8003 (851)			



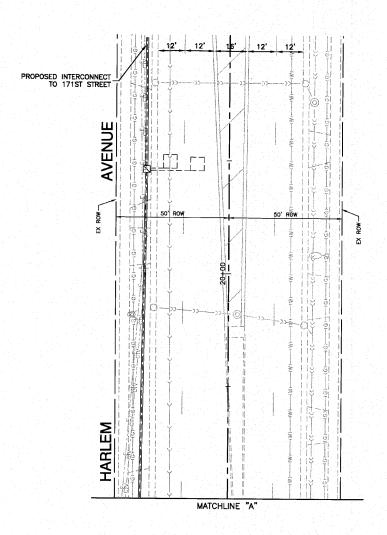
ILLINOIS DEPARTMENT OF TRANSPORTATION

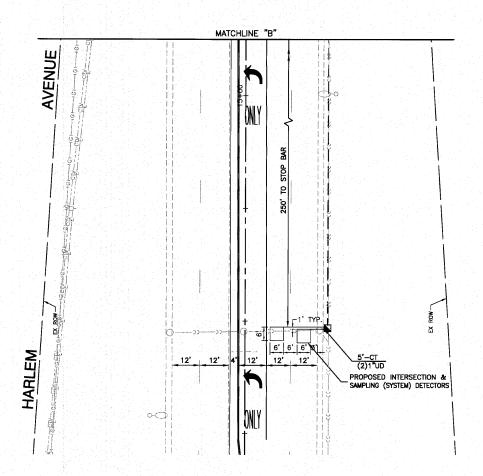
RESTORATION OF WORK AREA RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC.. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC.. SHALL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

DMISION OF HIGHWAY / DISTRICT 1
201 WEST CENTER COURT / SCHAUMBURG, ILLINOIS 60196-1098
ENERGY SUPPLY CONTACT:
PHONE: (709)233-2328
COMMONWEALTH EDISON USER NAME = DESIGNED - WPD REVISED COUNTY TOTAL SHEET NO.
COOK 60 36 175TH STREET AT HARLEM AVENUE SECTION CHECKED — WPD REVISED STATE OF ILLINOIS INTERSECTION IMPROVEMENTS 06-00104-00-CH PLOT SCALE = REVISED - PS **DEPARTMENT OF TRANSPORTATION** TRAFFIC SIGNAL - TEMPORARY CABLE PLAN CONTRACT NO. 63453 PLOT DATE = 10-14-10 CHECKED - WD REVISED SCALE: NONE SHEET NO. 36 OF 60 SHEETS STA.









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

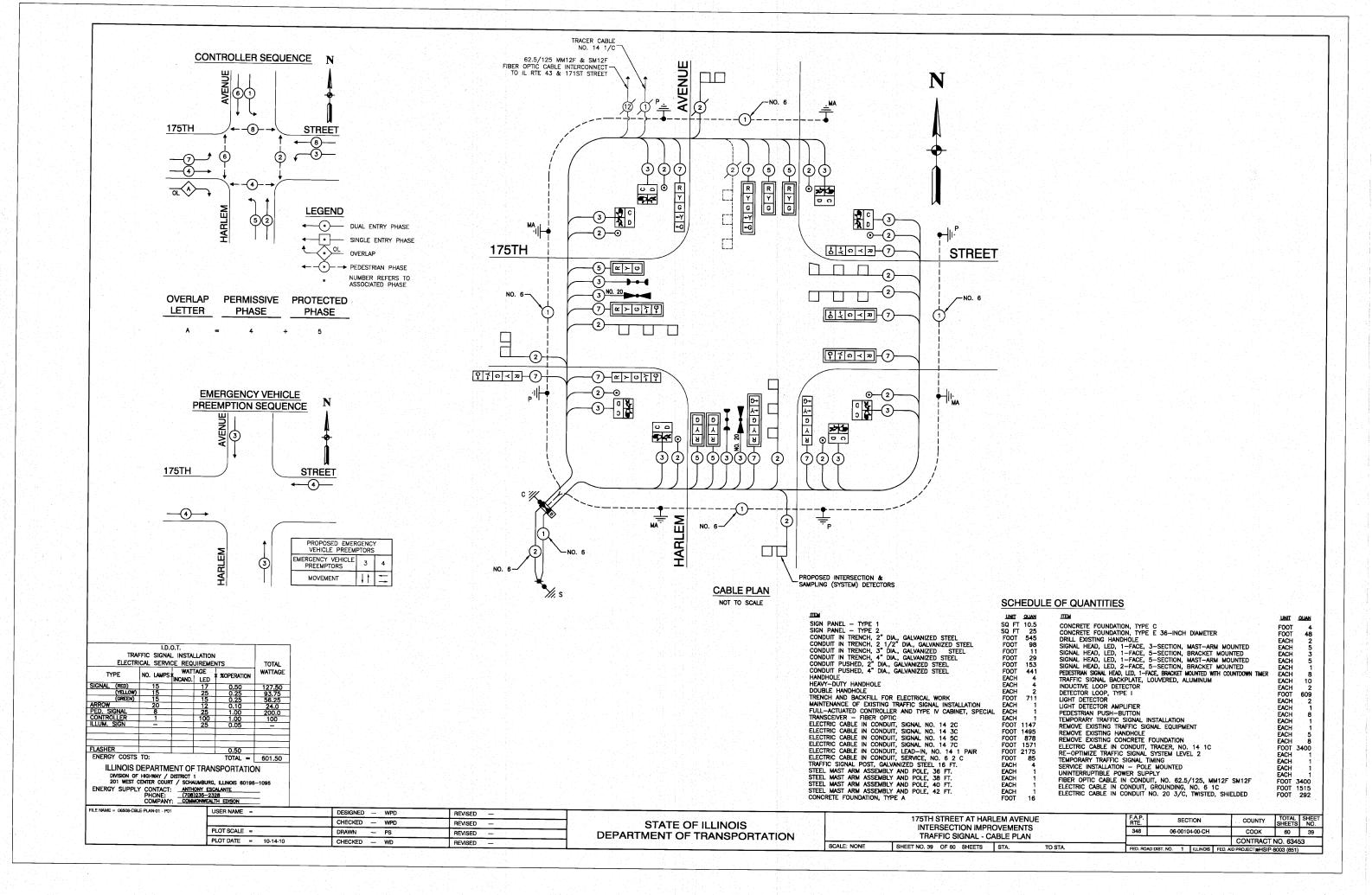
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC.. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC.. SHALL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

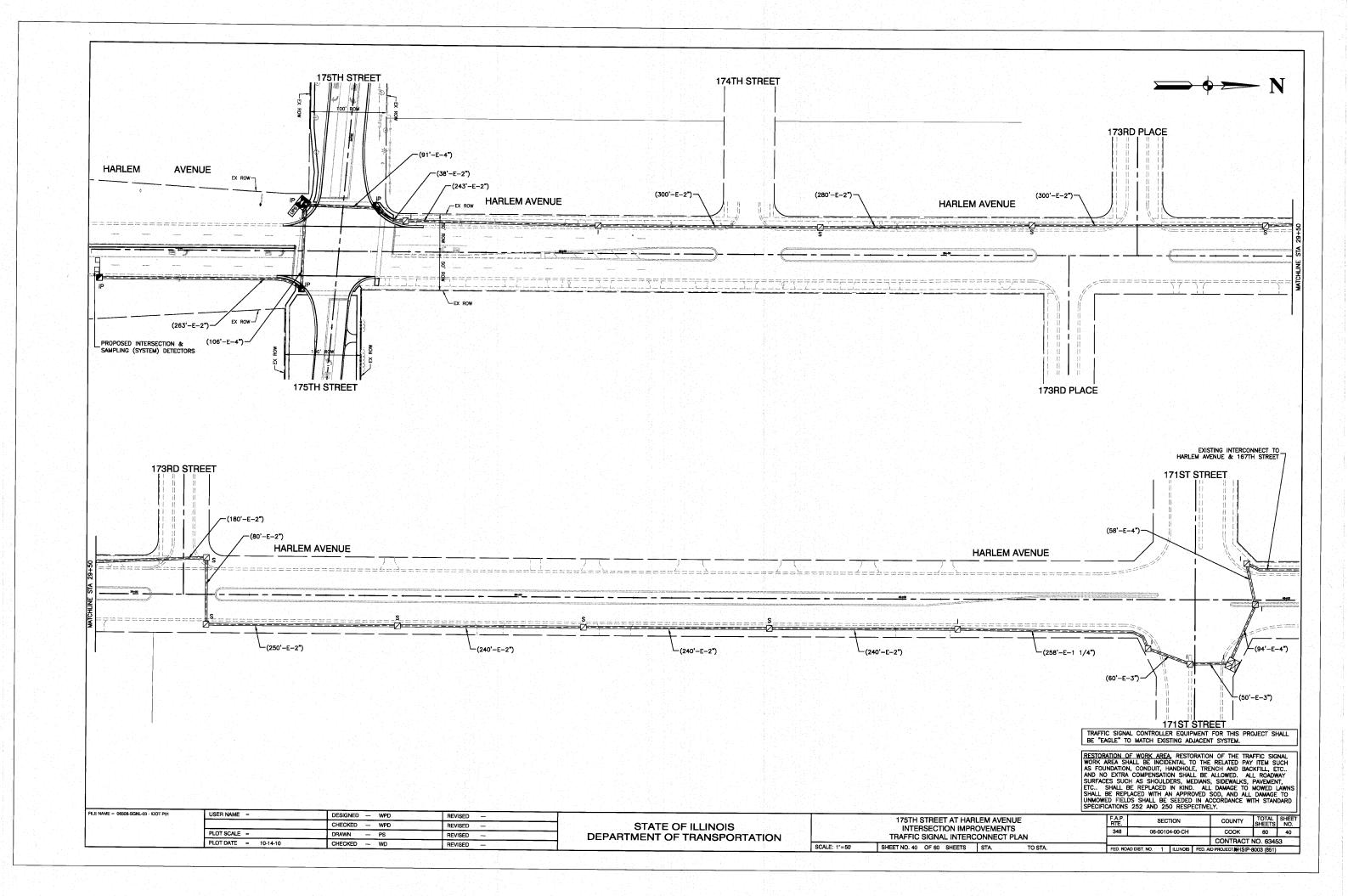
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

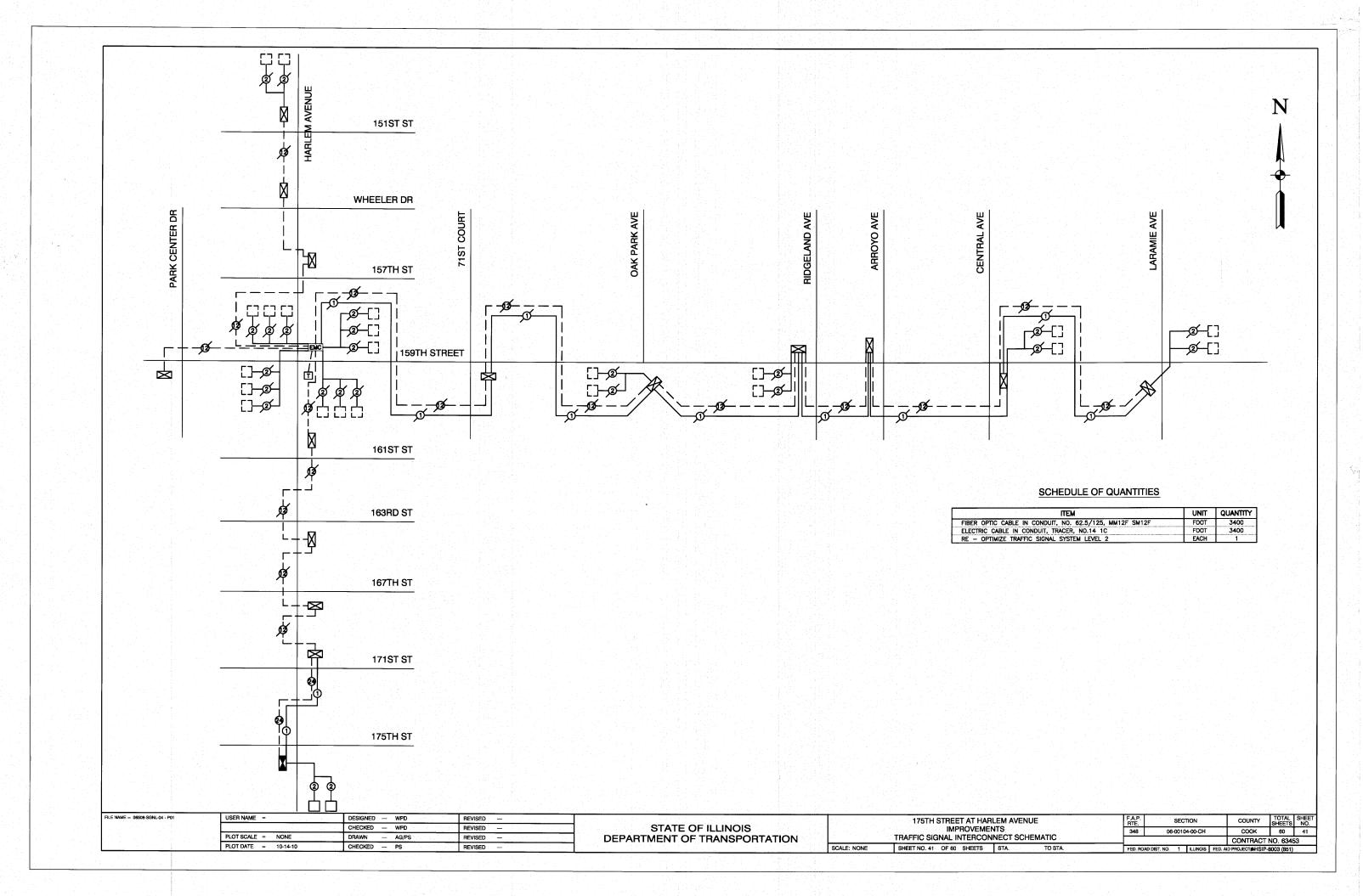
175TH STREET AT HARLEM AVENUE
INTERSECTION IMPROVEMENTS
TRAFFIC SIGNAL INSTALLATION

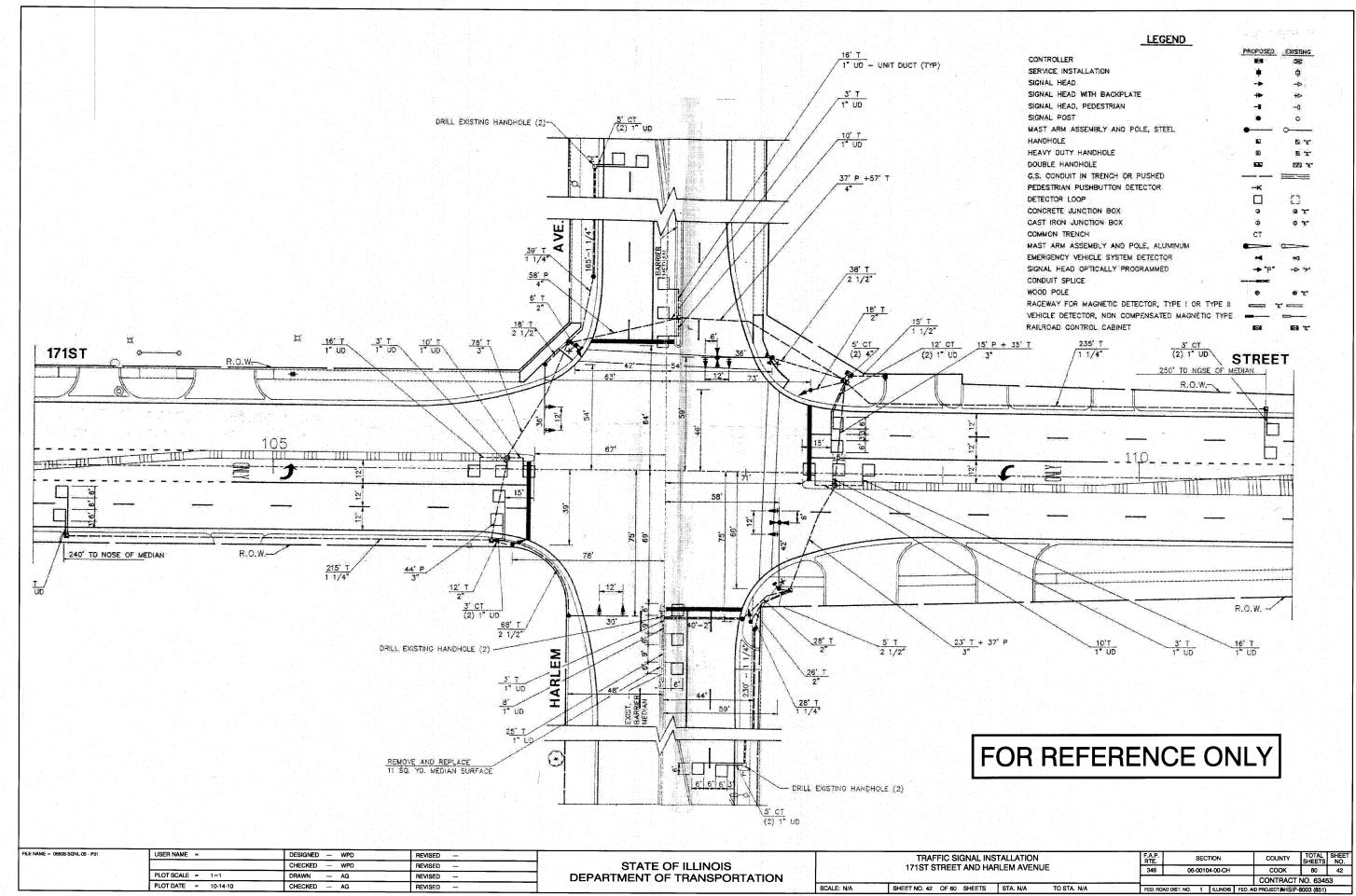
SCALE: 1'=20' SHEET NO. 38 OF 60 SHEETS STA. TO STA.

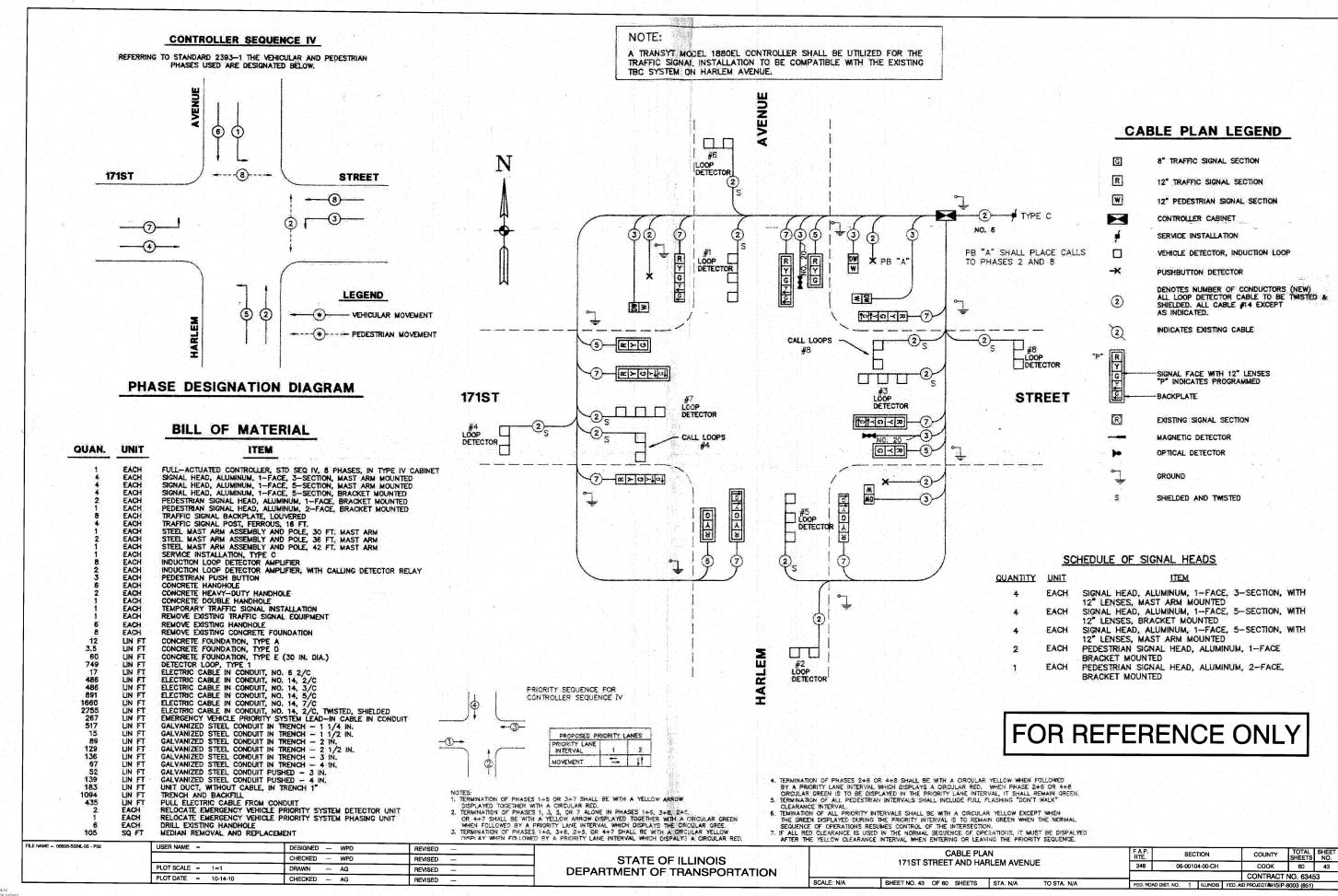
| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECTINHSIP-8003 (851) | | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECTINHSIP-8003 (851) |





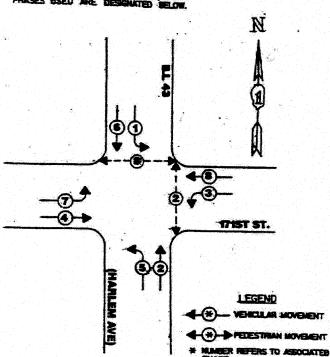




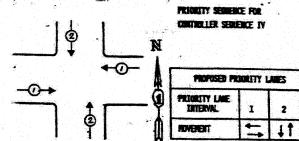


## CONTROLLER SELENCE IV

REFERRING TO STANDARD 2393-1, THE VEHICLAR AND PEDESTRUM PHASES USED ARE DESIGNATED BELOW.

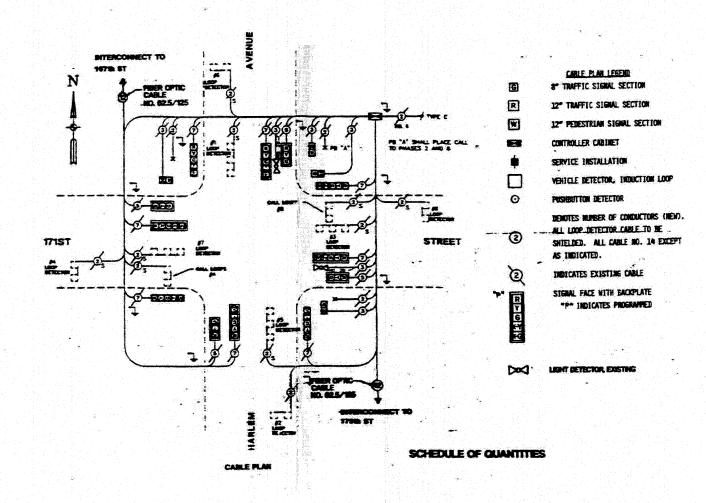


### PHASE DESIGNATION DIAGRAM



### MIES:

- TERMINATION OF PHASES 1+5 OR 3+7 SHALL-BE WITH A YELLOW ANNOW INSPLAYED TOGETHER WITH A CERCULAR BEB.
- 2. TENNIANTION OF PINSES 1. 3, 5, OR 7 ALONE IN PINSES 1+6, 3+8, 2+5, OR 4+7
  SMALL BE WITH A YELLON ANDON DISPLAYED TOGETHER WITH A CINCHAR GREEN WHEN
  FOLLOWED BY A PRIORITY LANE INTERNAL WINCH BISPLAYS THE CINCHAR GREEN.
- 3. TERMINATION OF PRASES 146, 346, 265, OR 447 SHALL BE WITH A CLICILAR VELLOW DISPLAY WHEN FOLLOWED BY A PRIORITY LANE INTERVAL WHICH RISPLAYS A CIRCULAR NED.
- A. TERMINATION OF PRASES 246 OR 443 SHALL BE WITH A CHRCHAR WELLOW MEEN FOL-LINED BY A PRIORITY LAW INTERNAL MILCH RISPLAYS A CIRCULAR RED. MEEN PRASES 246 OR 448 CIRCULAR GREEN IS TO BE DISPLAYED IN THE PRIORITY LAW INTERNAL. IT SHALL REPAIN GREEN.
- 5. TEMPLIATION OF ALL PENESTRIAN INTERVALS SHALL INCLINE A PAIL FLASHING "DON'T WILK" CLEARANCE INTERVAL.
- 6. JEHNINATION OF ALL PRIORITY INTERNALS SHALL BE WITH A CIRCULAR VELLON EXCEPT
  WHEN THE GREEN DISPLAYED DURING THE PRIORITY INTERNAL IS TO REPAIN GREEN ME
  THE MOMPAL SEQUENCE OF OPERATIONS RESURES CONTROL OF THE INTERSECTION.
- If all Bed Clearance is used in the normal sequence of grenations, it aust be displayed after the yellow clearance interval with extering or leaving the priority sequence.



<b>9</b>	•••	MY.		Ø.		me									يد دد				
	1			4CH		-		MER, F		ornc									
	1					-	<del></del>	LOCI MCE (	JF EX	ST DE	TRA	MC I					,ev		
	1			ACH			Car.	LIGH	r del	BCYG		N/HB	•						
	164 346	1		r F	5.46	1000	1121							 					

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REPOYED BY THE CONTRACTOR. SHALL REPAIN THE PROPERTY OF THE STATE, AND SHALL BE STORED AS STATED IN THE SPECIAL PROVISION FOR PICK UP BY STATE FORCES AS DESIGNATED BY THE ENGINEER.

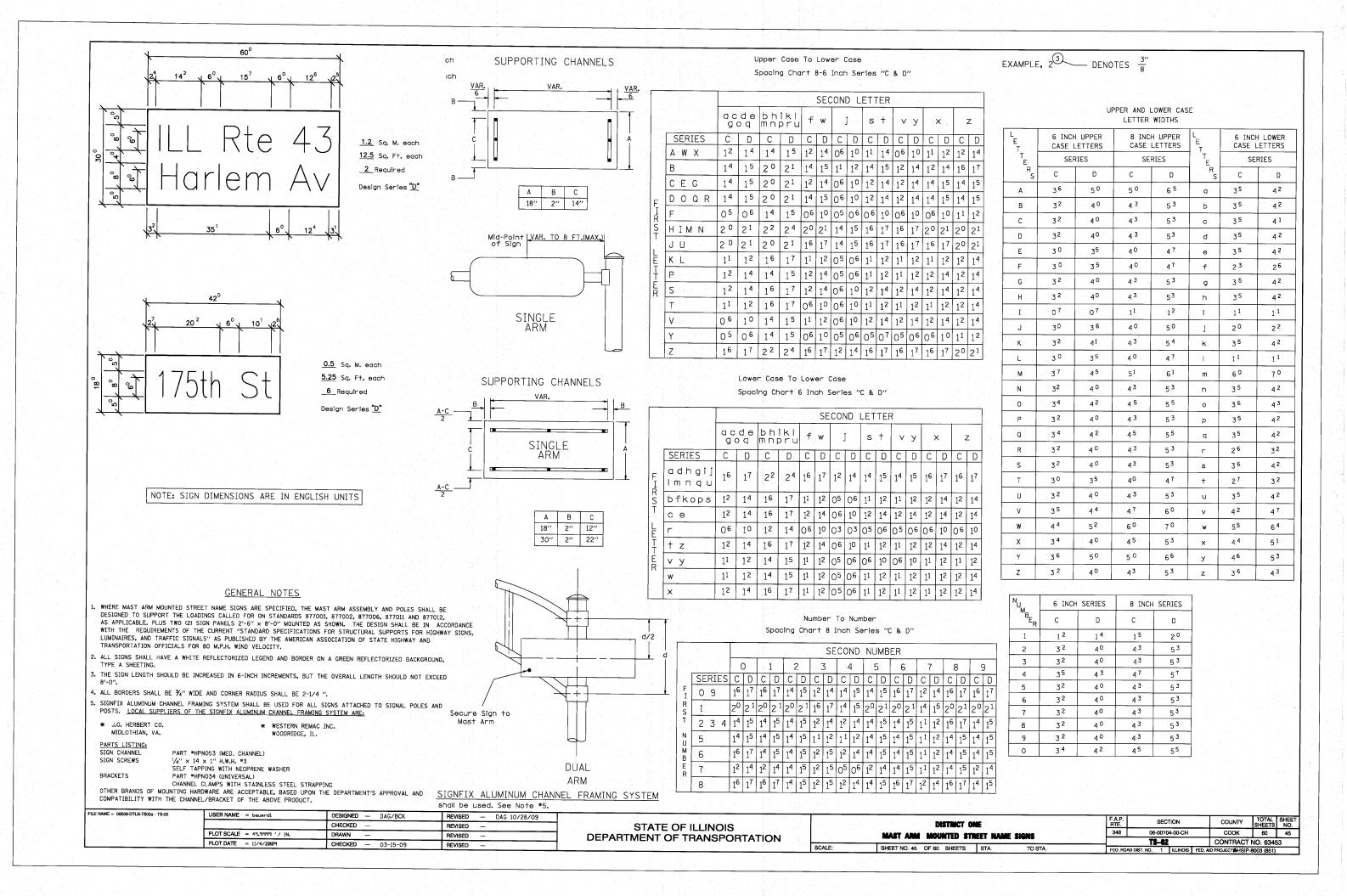
- S EACH CONTROLLER AND CAMERET COMPLETE
- 5 EACH JOSUCTION LOOP DETECTOR AMPLIFER

FOR REFERENCE ONLY

FILE NAME = 06508-SGNL-05 - P03	USER NAME =	DESIGNED — WPD	REVISED —
		CHECKED — WPD	REVISED —
	PLOT SCALE = 1=1	DRAWN — AG	REVISED —
	PLOT DATE = 10-14-10	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

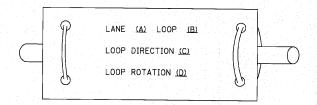
	100		4.14	100			
ILL 43 (HARLEM AVE) & 171ST STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS			
PHASE DESIGNATION DIAGRAM  EMERGENCY VEHICLE PREEMPTION SEQUENCE, CABLE PLAN AND SCHEDULE OF QUANTITIES	348	06-00104-00-CH	COOK	60	44		
	4		CONTRACT NO. 63453				
SCALE: N/A SHEET NO. 44 OF 60 SHEETS STA. N/A TO STA. N/A	FED. RC	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT #HSIP-8003 (8)					



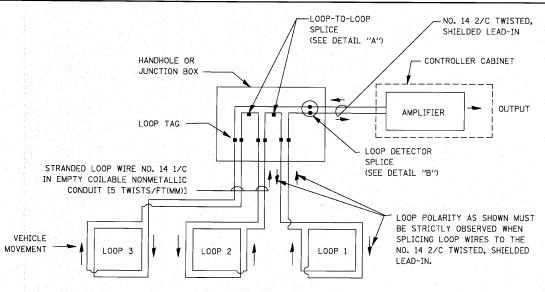
### LOOP DETECTOR NOTES

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

### LOOP LEAD-IN CABLE TAG

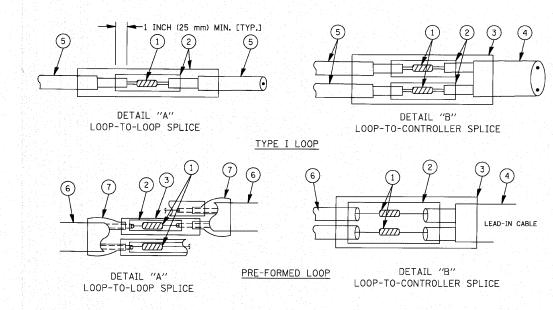


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



### DETECTOR LOOP WIRING SCHEMATIC

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



### LOOP DETECTOR SPLICE

- $\ensuremath{ \textcircled{1}}$  Western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- TL POLYOLEFIN 2 CONDUCTOR
  BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

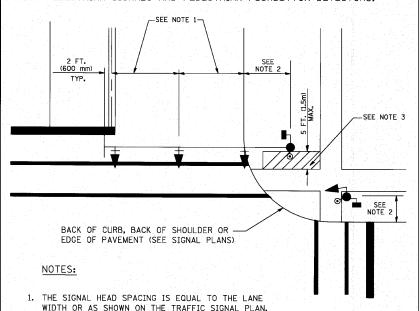
FILE NAME = 06508-SGNL-DTLS-01 - P01	USER NAME = bauerdl	DESIGNED — DAD	REVISED —
		CHECKED — BCK	REVISED —
	PLOT SCALE = 50.0000 '/ IN.	DRAWN — DAD	REVISED —
	PLOT DATE = 11/4/2009	CHECKED - 10-28-09	REVISED -

		STAT	E OF IL	LINOIS	}	
DE	PART	MENT	OF TR	ANSPO	PTAT	LION

	DISTRICT O		F.A.P. SECTION	COUNTY TOTAL SHEET NO.
	STANDARD TRAFFIC SIGNA	L DESIGN DETAILS	348 06-00104-00-CH	COOK 60 46
2011 - 11011-	And the second s		T\$-05	CONTRACT NO. 63453
SCALE: NONE	SHEET NO. 46 OF 60 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT MHSIP-8003 (851)

### 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.



- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 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 SEE TABLE I SEE NOTE I

### NOTES:

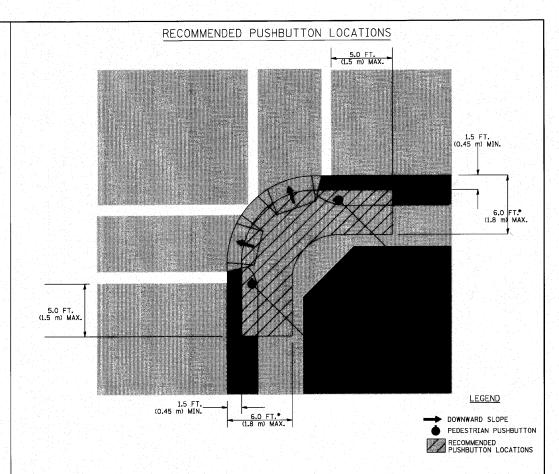
1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.

SIDEWALK

- 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.

BACK OF CURB, BACK OF SHOULDER OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

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."



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

### NOTES:

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

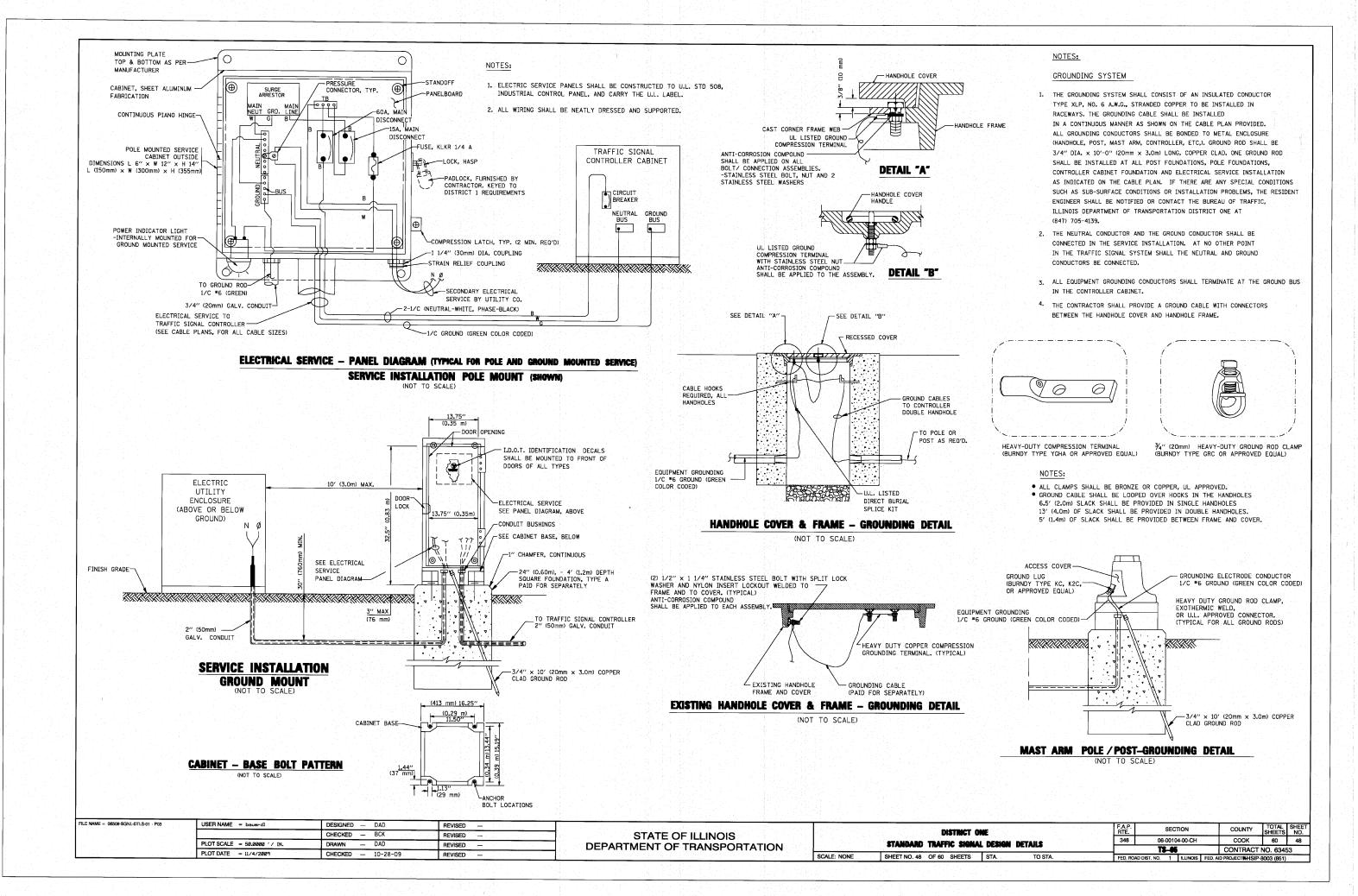
### TRAFFIC SIGNAL EQUIPMENT OFFSET

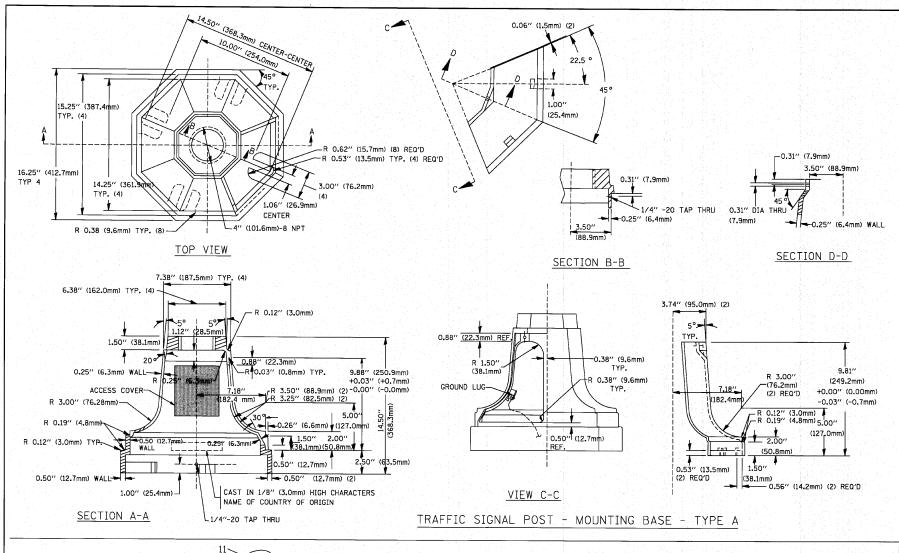
	THE STORAGE EQUIT MENT OF T	
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1,2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

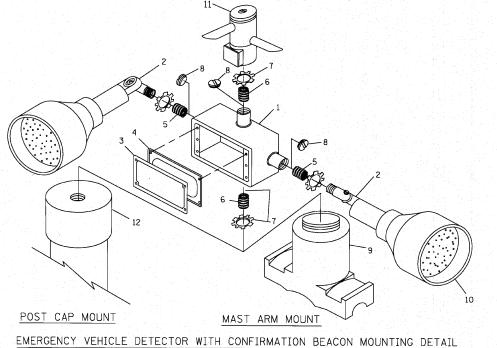
### NOTES:

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

FILE NAME = 06508-SGNL-DTLS-01 - P02	USER NAME = bauerdl	DESIGNED — DAD	REVISED —			DISTINCT ONE	F.A.P. SECTION	COUNTY TOTAL SHEET
		CHECKED — BCK	REVISED —	STATE OF ILLINOIS			348 06-00104-00-CH	COOK 60 47
	PLOT SCALE = 50.0000 '/ IN.	DRAWN — DAD	REVISED —	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS	T3-95	CONTRACT NO. 63453
	PLOT DATE = 11/4/2009	CHECKED — 10-28-09	REVISED —		SCALE: NONE	SHEET NO. 47 OF 60 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT MHSIP-8003 (851)







DESIGNED - DAD

CHECKED - BCK

— DAD

CHECKED - 10-28-09

DRAWN

REVISED

REVISED

REVISED

REVISED -

USER NAME = bauerdl

PLOT SCALE = 50.0000 ' / IN.

PLOT DATE = 11/4/2009

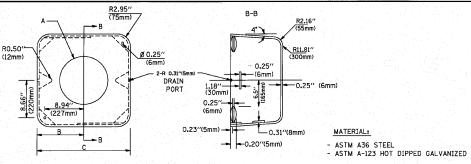
FILE NAME = 06508-SGNL-DTLS-01 - P04

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	¾''(19 mm) CLOSE NIPPLE
.7 :	¾′′(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.]
	The second second to the second secon

### NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS \*2 AND \*11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. 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 ¾"(13 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.

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

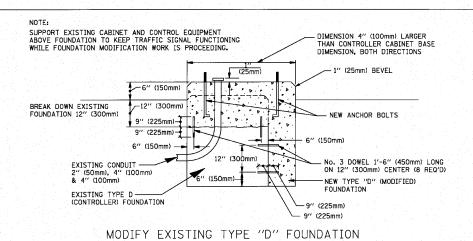


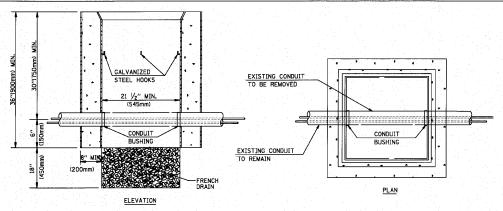
Α	В	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

### SHROUD

### 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.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



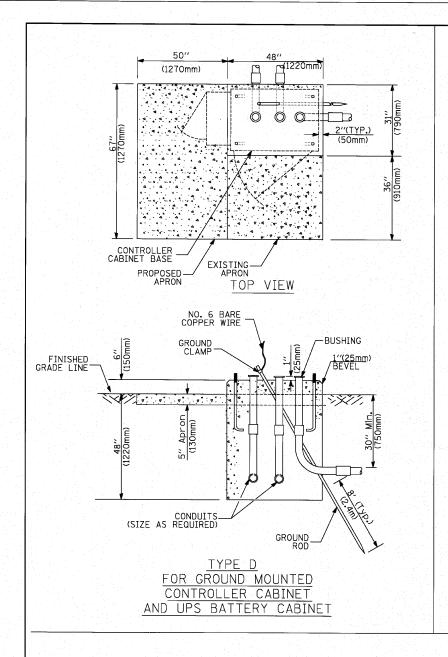


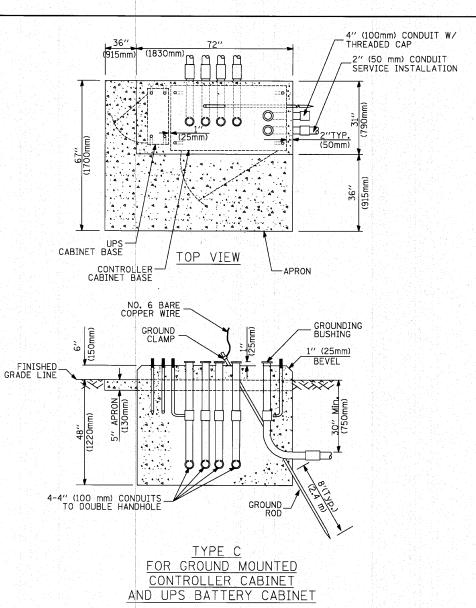
### NOTES:

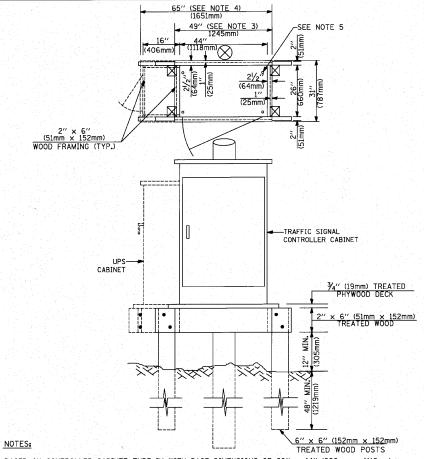
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

### HANDHOLE TO INTERCEPT EXISTING CONDUIT

		9.00		DISTRICT O	NE .			F.A.P. RTE.	SECT	ION	100	COUNTY	TOTAL SHEETS	SHEET NO.
			STANDARD	TRAFFIC SIGNA	DEGICAL DET	AU C		348	06-0010	4-00-CH		COOK	60	49
_		1,000	+ I /NEU/NIU	IIIVIIIV OIGIDA				100	T\$-05		1.1	CONTRACT	NO. 6345	3
S	CALE: NONE	Mar. 19	SHEET NO. 49	OF 60 SHEETS	STA.	TO STA.	<u> </u>	FED. RO	AD DIST. NO. 1	ILLINOIS	FED. Al	D PROJECT <b>NI</b> HSIP-8	003 (851)	







- 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.
- 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

5.1	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
1	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
나무의 경기는 이 기업의 부탁이 있는 반찬 수무를 가게 없는데 그리다 하를 하는 것 같아?	100	

VERTICAL CABLE LENGTH

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (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 <b>.</b> 6 m)	42" (1060mm)	36" (900mm)	16	8(25)

### NOTES:

DEPTH

4'-0" (1.2m)

4'-0'' (1.2m) 4'-0'' (1.2m)

4'-0" (1.2m)

- 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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

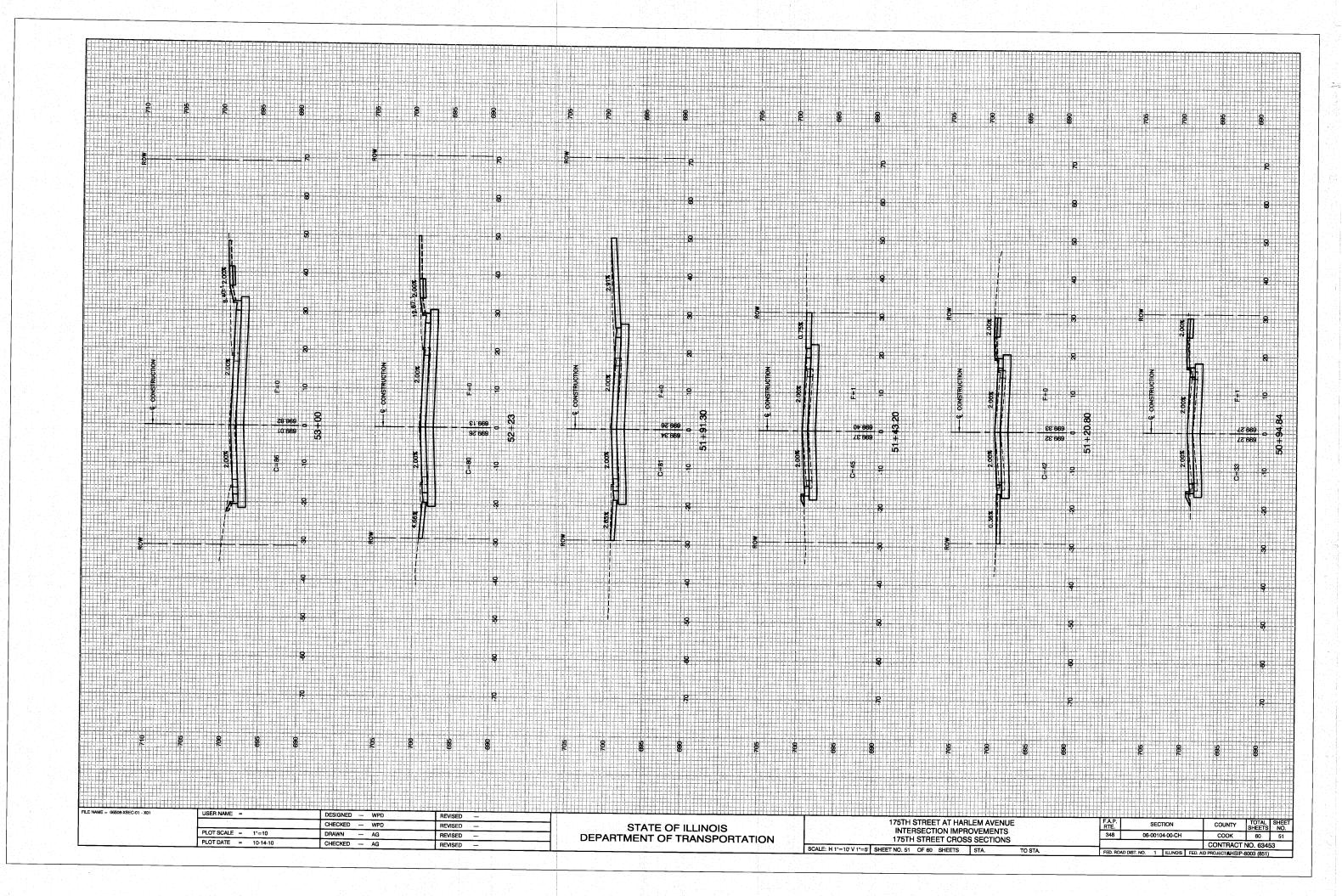
FOUNDATION

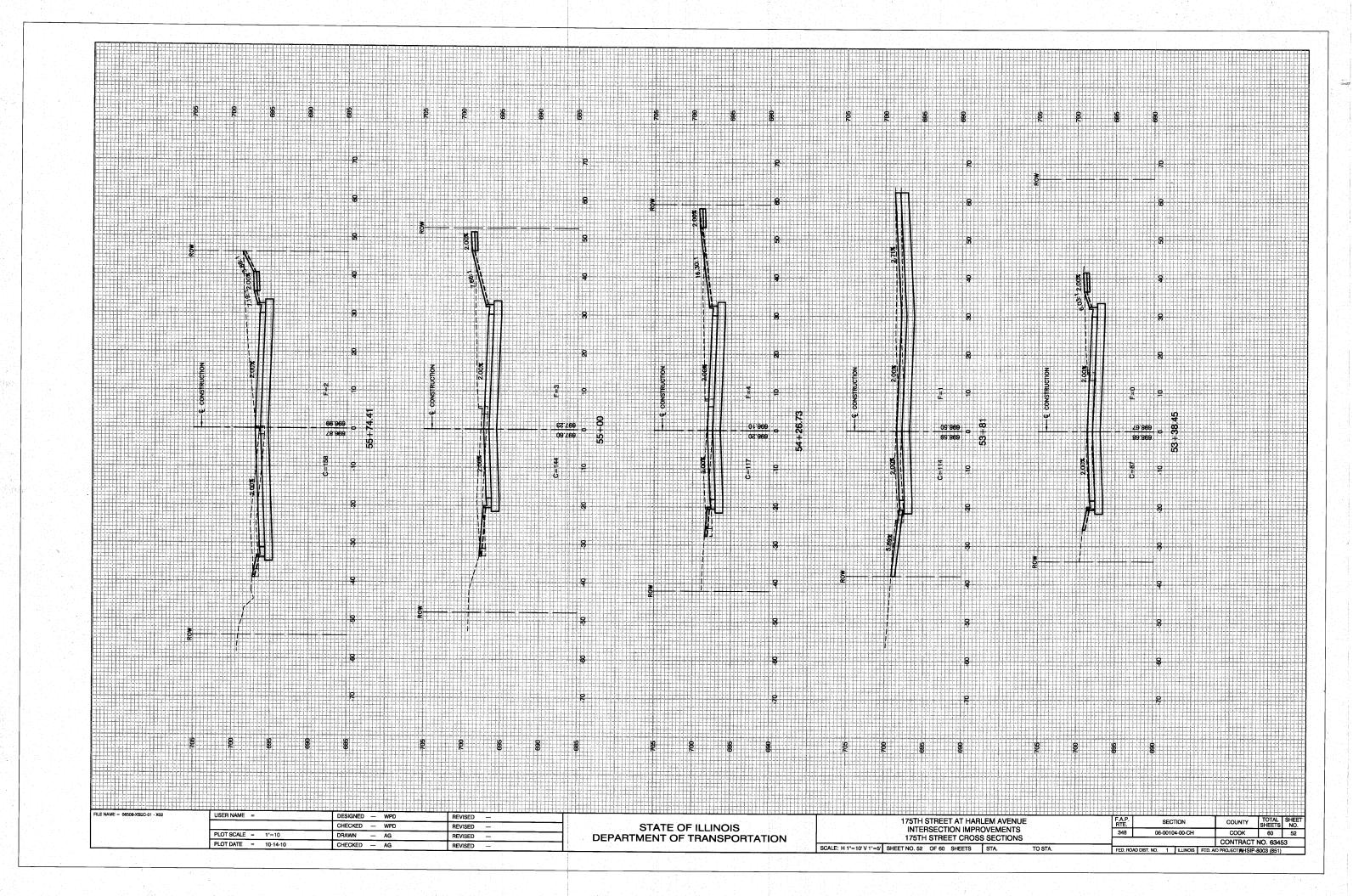
TYPE A - Signal Post

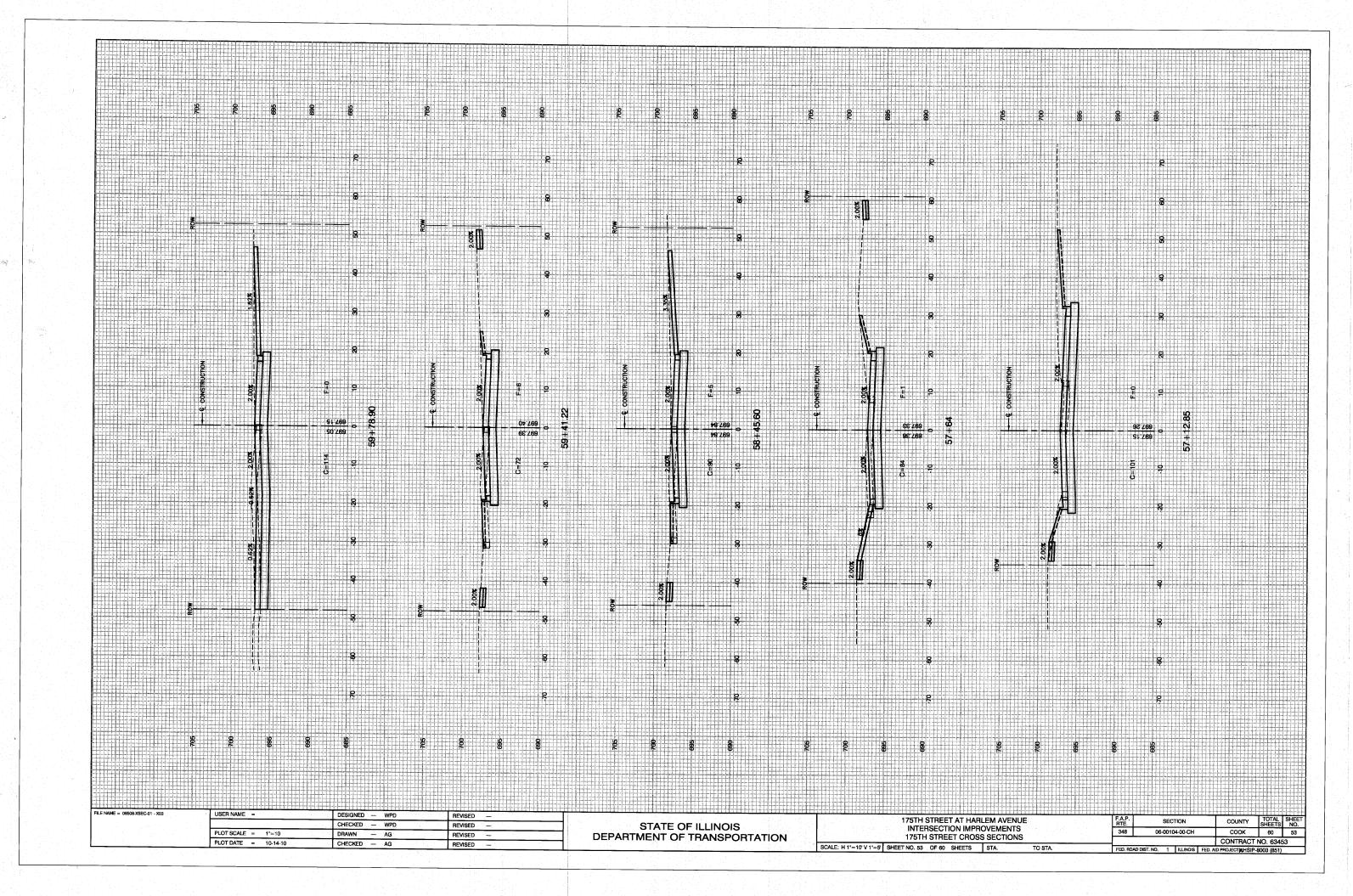
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE

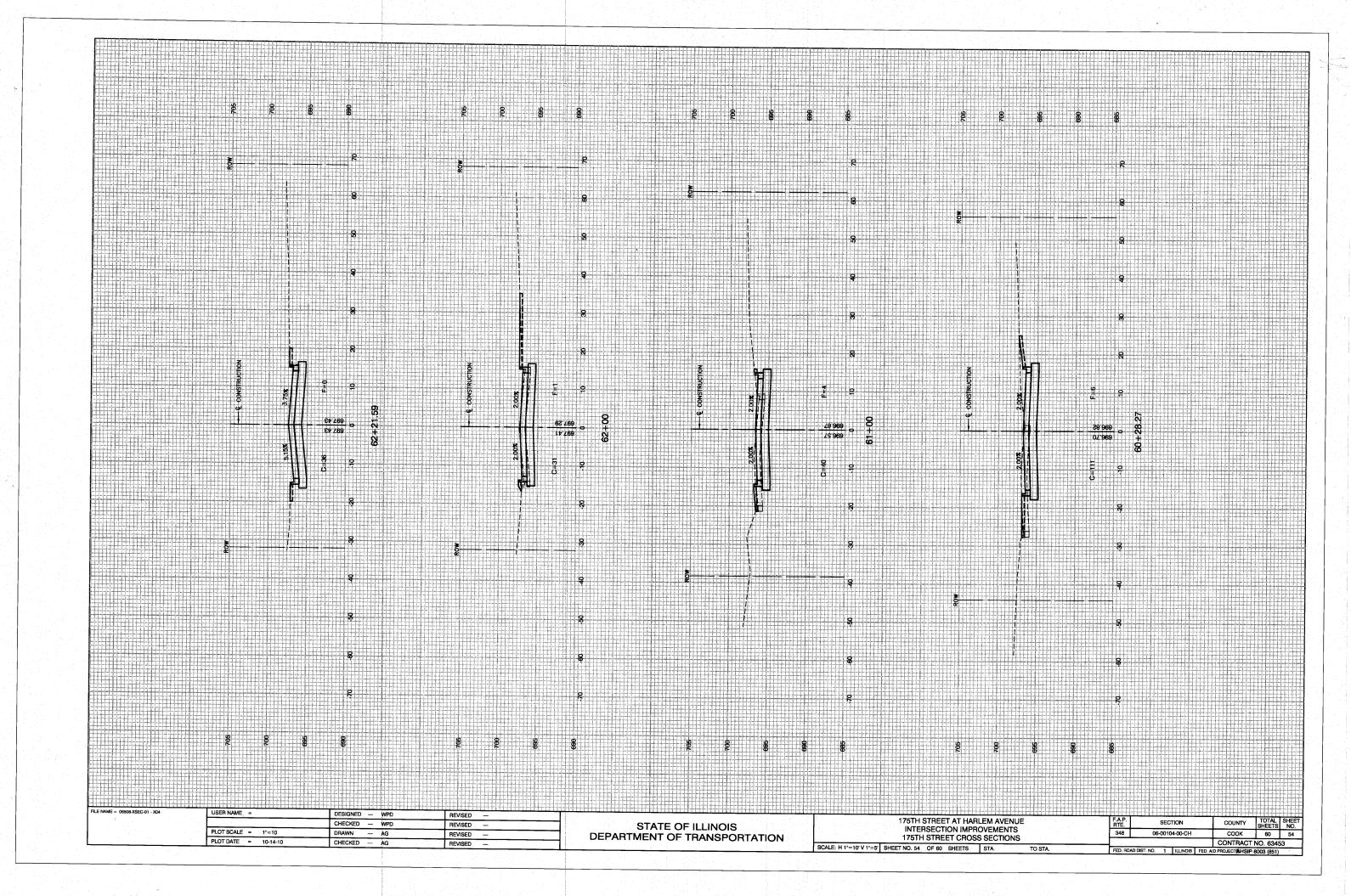
TYPE C - CONTROLLER W/ UPS
TYPE D - CONTROLLER

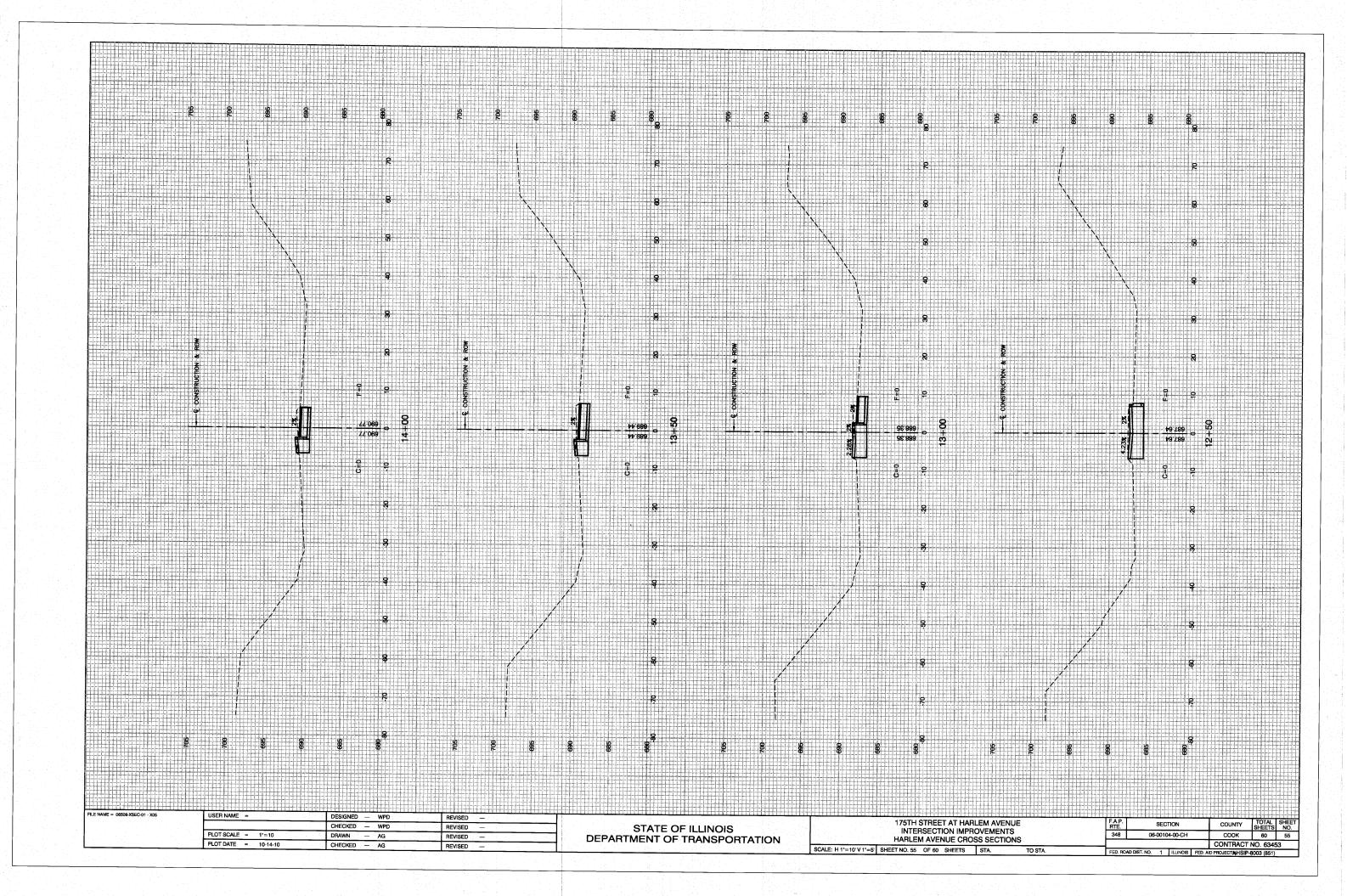
<u> Pilonia kantan kana sa sa</u>		and the second of the second o						1.0
	DISTRICT	ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHE SHEETS NO	
	STANDARD TRAFFIC SIG	NAI REGION RETAILS		348	06-00104-00-CH	COOK	60 50	5
<u>e kilomija i la ilima e</u>	STANDARU TRAFFIC SR	RAL DESKIR DETAILS			TS-05	CONTRACT	NO. 63453	7.0
SCALE: NONE	SHEET NO. 50 OF 60 SHEETS	STA. TO STA.	47.50	EED BOA	AD DIST NO. 1 LILLINGIS FED A	ID PROJECTA HSID.	8003 (851)	$\neg$

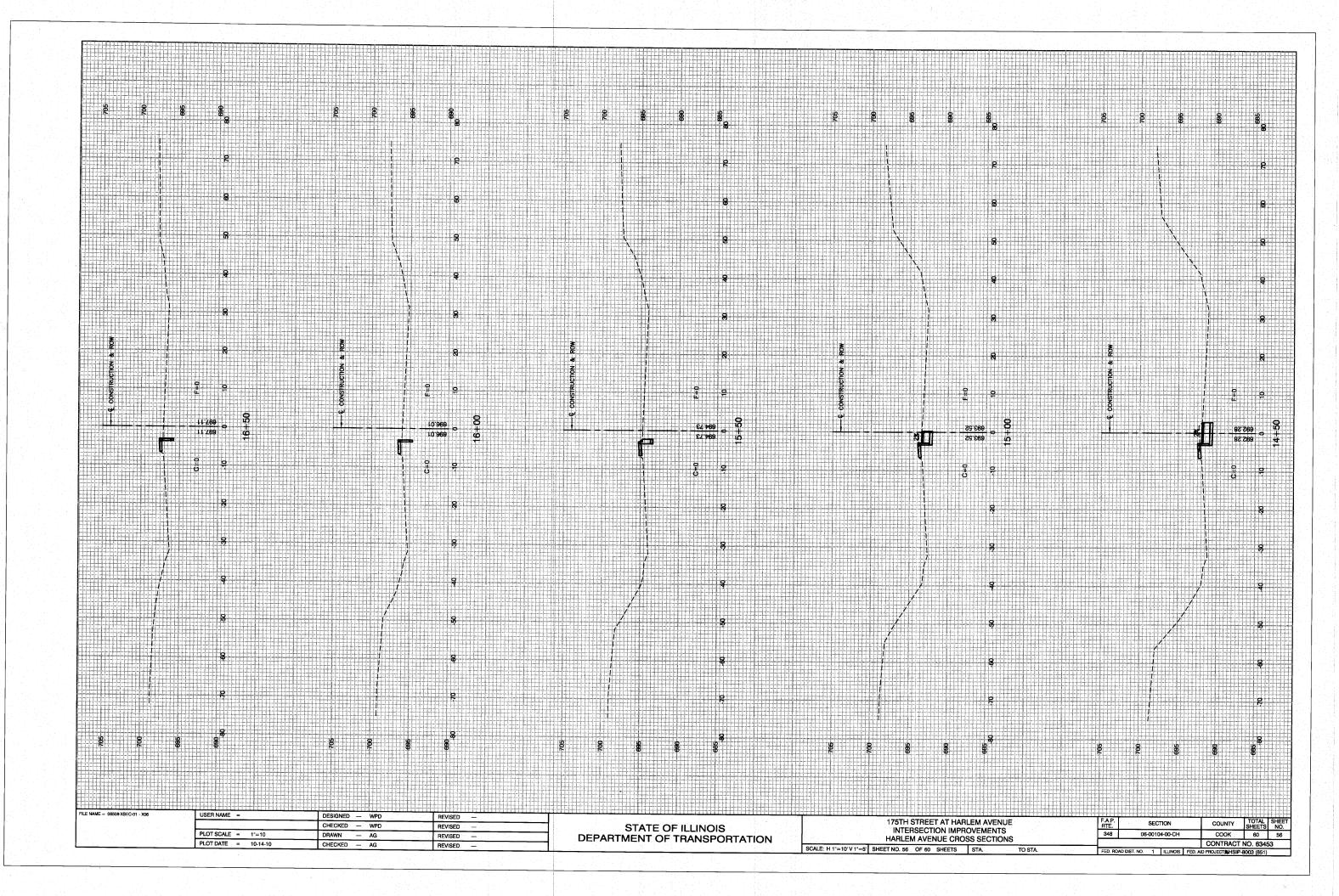


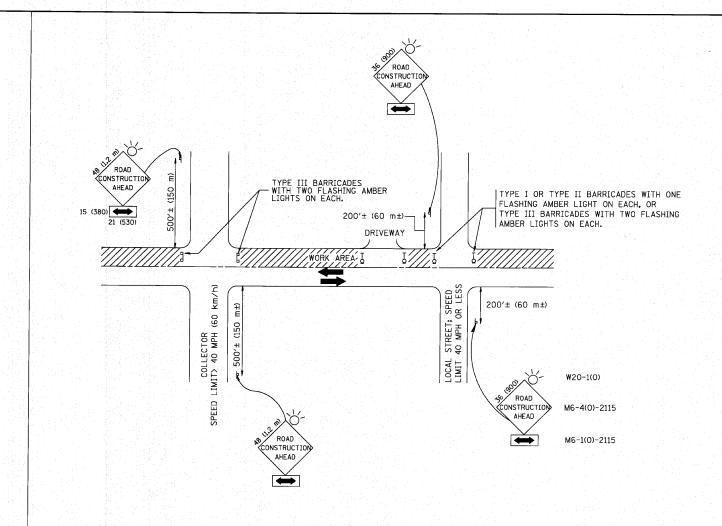












TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

### 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:
- d) ONE ROAD CONSTRUCTION AMEAD 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:
- d) ONE **ROAD CONSTRUCTION AMEAD** SIGN 48  $\times$  48 (1.2 m  $\times$  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:

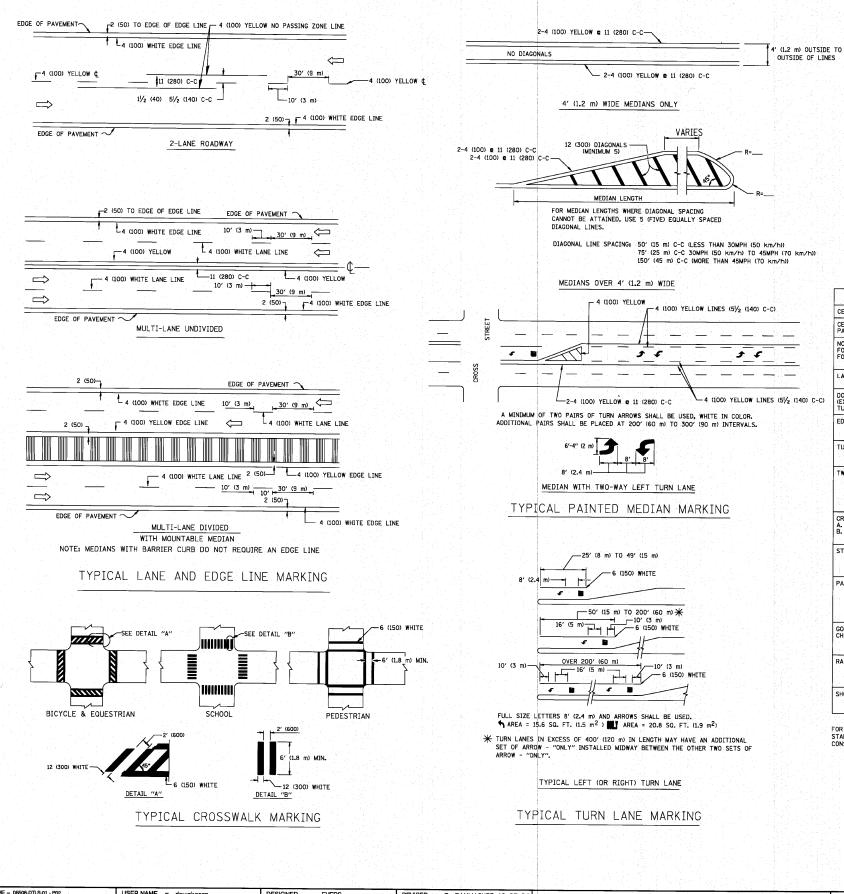
USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

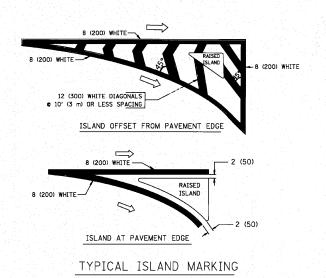
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET NO. 57 OF 60 SHEETS STA. TO STA	5.5	
		- T
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	348	06-
TRAFFIC CONTROL AND PROTECTION FOR	F.A.P. RTE.	





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 <b>a</b> 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (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	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 <b>6</b> (150) 12 (300) <b>c</b> 45° 12 (300) <b>c</b> 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (500) APART 2' (500) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, 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 m²) EACH "X"=54.0 SQ. FT. (6.0 m²)
SHOULDER DIAGONALS	12 (300) <b>c</b> 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) T0 45MPH (70 km/h) 150' (45 m) C-C (0VER 45MPH (70 km/h))

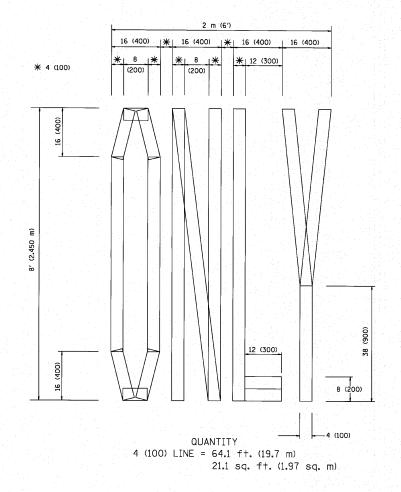
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

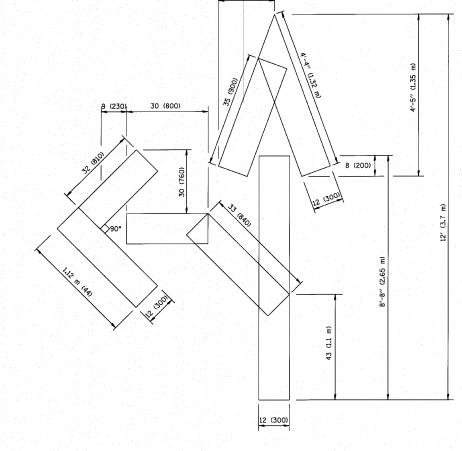
All dimensions are in inches (millimeters) unless otherwise shown.

	FILE NAME = 06508-DTLS-01 - P02	USER NAME = drivakosgn	DESIGNED — EVERS	REVISED - T. RAMMACHER 10-27-94
1	c:\pw_work\pwidot\drivakoagn\dØ1Ø8315\tc	<b>3.dgn</b>	DRAWN —	REVISED — C. JUCIUS 09-09-09
		PLOT SCALE == 50.000 '/ IN.	CHECKED —	REVISED —
		PLOT DATE == 9/9/2009	DATE - 03-19-90	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

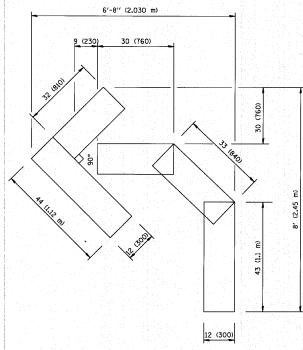
		DISTRICT ONE		F.A.P. RTE.	SECTION		COUNTY	TOTAL	SHEET NO.	
		TYPICAL PAVEMENT MANUNCS		348	06-00104-00-CH	L. The	COOK	60	58	r .
			<u> 18 18 18 18 18 18 18 18 18 18 18 18 18 </u>		TC-13		CONTRACT	NO. 6345	3	
10	SCALE: NONE	SHEET NO. 58 OF 60 SHEETS STA. TO STA.		FED. ROA	AD DIST. NO. 1 ILLINOI	S FED. A	AID PROJECT HHSIP-8	8003 (851)	6 1 1 2 1	





1'-8" (500)

QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



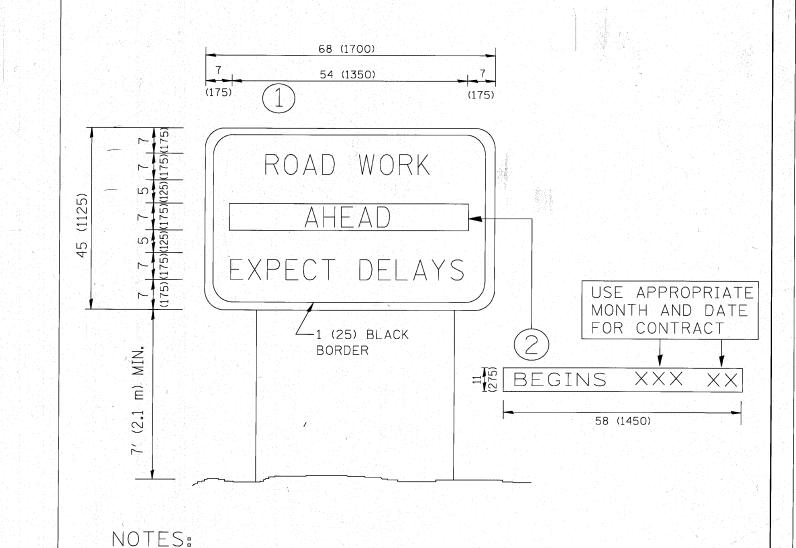
QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = 86808-DTLS-01 - P03	USER NAME = gaglianobt	DESIGNED —	REVISED — T. RAMMACHER 06-05-96
W:\diststd\22x34\to16.dgn		DRAWN —	REVISED — T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED —	REVISED — T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED — E. GOMEZ 08-28-00

	STATE	E OF ILL	INOIS		
DEPAF	RTMENT	OF TRA	NSPOR	RTATION	

-							_				
SCALE:	NONE	112.78	SHEET NO. 59	OF 60 SHEE	TS STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID		D. AID PROJECT/HISIP-8003 (851)		
7.77		<u> </u>		TON INDET	r Jinama			TC-16	CONTRACT	NO. 634	53
				COD TRACE	IC STAGING		348	06-00104-00-CH	COOK	60	59
			PAVEMENT	MARKING I	ETTERS AND	SYMBOLS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.



1. USE BLACK LETTERING ON ORANGE BACKGROUND.

SCALE: NONE

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET N	റെറ	en chee	TQ	QTA .		TΩ	QTA
	To the	INFORMA	TION	SIGN			1
		ARTERIA		-			
	- Y 5 - 1.	5,44	200	2	100		5
 				1.1.1		-	- 5