

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	1

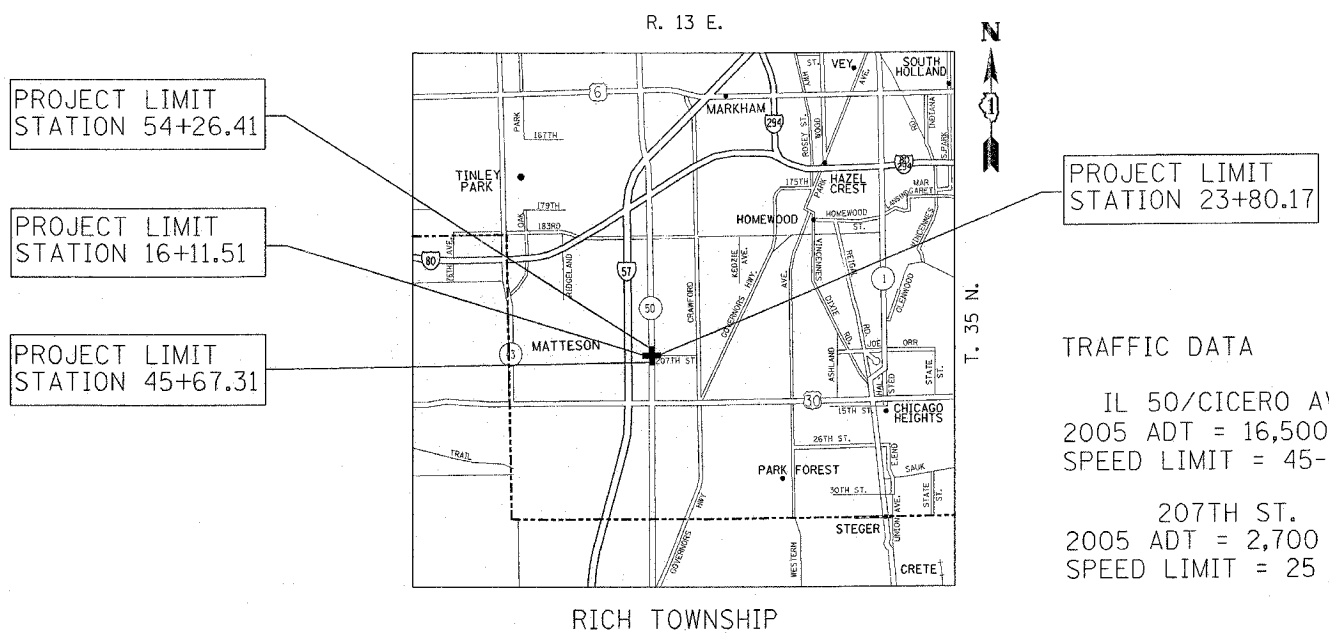
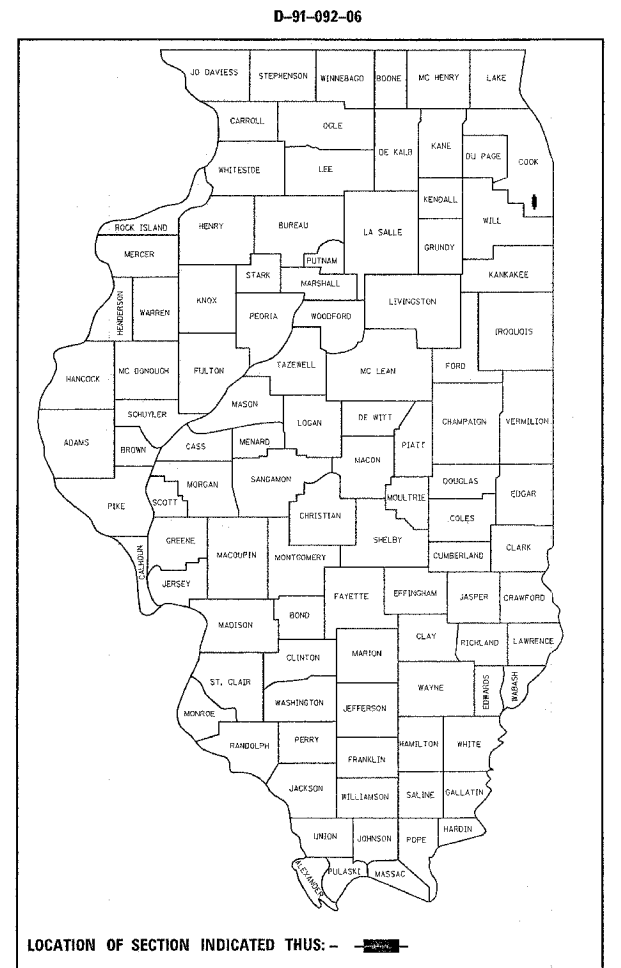
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. 350: IL 50 (CICERO AVENUE)
AT 207TH STREET / BIRCHWOOD LANE
SECTION: 101 TS-2
SIGNAL INSTALLATION
PROJECT: ACHPP-HPP-2763 (001)
COOK COUNTY
C-91-092-06

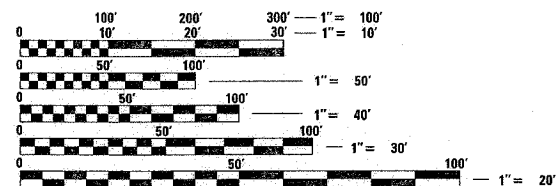
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGE OF MATTESSON



LOCATION MAP

207TH GROSS AND NET LENGTH OF PROJECT = 768.66 FEET
ILL 50 GROSS AND NET LENGTH OF PROJECT = 859.10 FEET



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 25 20 06

Diane O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 8, 20 06
Eric E. Harshbarger
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

December 8, 20 06
Milton R. Seay, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

DISTRICT ONE - PLAN PREPARATION ENGINEER: KEN ENG / J.P. CHANG (847) 705-4432

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION
1	TITLE SHEET	000001	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	604001	FRAME AND LIDS, TYPE 1
3-4	SUMMARY OF QUANTITIES	606001	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
5-7	TYPICAL SECTIONS	606301	PC CONCRETE ISLANDS AND MEDIANS
8-9	ROADWAY PLAN	701301	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
10	PAVEMENT MARKING PLAN	701601	URBAN LANE CLOSURE, MULTILANE 1W OR 2W WITH NONTRAVERSABLE MEDIAN
11-14	TRAFFIC SIGNAL PLANS	701701	URBAN LANE CLOSURE, MULTILANE INTERSECTION
15	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	702001	TRAFFIC CONTROL DEVICES
16	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	720001	SIGN PANEL MOUNTING DETAILS
16A	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	780001	TYPICAL PAVEMENT MARKINGS
17	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)	814001	CONCRETE HANDHOLES
18	DISTRICT ONE TYPICAL PAVEMENT MARKINGS	814006	DOUBLE HANDHOLES
19	TRAFFIC CONTROL AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)	857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
20	PAVEMENT MARKINGS, LETTERS AND SYMBOLS FOR TRAFFIC STAGING	877001	STEEL MAST ARM ASSEMBLY AND POLE
21	TEMPORARY INFORMATION SIGNING	878001	CONCRETE FOUNDATION DETAILS
21A	MEDIAN NOSE DETAIL	880006	TRAFFIC SIGNAL MOUNTING DETAILS
22	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING	886001	DETECTOR LOOP INSTALLATION
23-26	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF MATTESON

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

3 METER (10') TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURB & GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER AT (773)685-8386 A MINIMUM OF 72 HOURS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO START OF CONSTRUCTION.

THE UNIT WEIGHT (CONVERSION FACTOR) QUOTED IS FOR THE ESTIMATED PLAN QUANTITIES ONLY. ACTUAL QUANTITIES TO FUFILL CONTRACT REQUIREMENTS WILL BE DETERMINED BASED ON UNIT WEIGHT OF THE APPROVED MIX DESIGN, PLAN DIMENSIONS AND DENSITY LIMITATIONS. MAXIMUM PAYMENT WILL BE COMPUTED BASED ON WEIGHT AVERAGE DENSITIES OF THE IN-PLACE MIXTURES.

TWO PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED FOR A PERIOD OF ONE MONTH EACH. THE SIGNS SHALL NOTIFY MOTORIST THAT THE "TRAFFIC SIGNAL WILL BE TURNED ON" 7 - 10 DAYS BEFORE SIGNAL IS ACTIVATED.

THE CONTRACTOR SHALL VERIFY PROPOSED CULVERT DIAMETER BEFORE ORDERING MATERIALS

PAVEMENT MARKING REMOVAL SCHEDULE

PAVEMENT MARKING	UNIT	STA. TO STA.	QUANTITY
4" WHITE - SKIP DASH LINE	FOOT	45+67 TO 49+56 50+46 TO 54+26	385 FT
4" YELLOW - DOUBLE YELLOW CENTERLINE	FOOT	20+46 TO 22+52 23+28 TO 23+80	516 FT
4" YELLOW - MEDIAN EDGE LINE	FOOT	45+67 TO 49+56 50+46 TO 54+26	1561 FT
4" WHITE - EDGE LINE	FOOT	45+67 TO 49+77 50+61 TO 54+26	775 FT
TOTAL REMOVAL - 4" WHITE			3237 FT
6" WHITE - TURN LANE LINE	FOOT	45+76 TO 49+56 45+09 TO 49+56 50+46 TO 54+26 50+46 TO 52+46 20+72 TO 21+91	1526 FT
6" WHITE - DOTTED LINE	FOOT	NA	-
6" WHITE - CROSSWALK LINE	FOOT	NA	-
TOTAL REMOVAL - 6" WHITE			1526 FT
TOTAL REMOVAL - LETTERS AND SYMBOLS	SO FT	STA 46+00, STA 48+00 STA 48+85, STA 50+73 STA 51+18, STA 52+25 STA 54+00, STA 21+55	341 SOFT
TOTAL REMOVAL - 12" WHITE - 45° DIAGONAL	FOOT	45+67 TO 49+56 50+46 TO 54+26	81 FT
TOTAL REMOVAL - 24" WHITE - STOP LINES	FOOT	STA 49+56, STA 50+46 STA 19+23, STA 20+72	130 FT
TOTAL PAVEMENT MARKING REMOVAL			894 SOFT

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES AND PAVEMENT MARKING REMOVAL SCHEDULE
NAME	DATE	
		SCALE: VERT. / HORIZ. DRAWN BY CHECKED BY

PLOT DATE = 10/20/2006
FILE NAME = c:\nrc\mets\p128485\design\m32
PLOT SCALE = 50.0000 / IN.
REFERENCE = SHEET

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		IL 50 @ 207th				
				I000-1A 80% FED 20% STATE	Y031-1F 80% FED 10% STATE 10% VILLAGE	Y031-3D 100% VILLAGE		
20200100	EARTH EXCAVATION	CU YD	10	10				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2	2				
20400800	FURNISHED EXCAVATION	CU YD	10	10				
20800150	TRENCH BACKFILL	CU YD	3.5	3.5				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	5	5				
21400100	GRADING AND SHAPING DITCHES	FOOT	15	15				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	0.5	0.5				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	0.5	0.5				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	0.5	0.5				
25200100	SODDING	SQ YD	5	5				
25200200	SUPPLEMENTAL WATERING	UNIT	0.5	0.5				
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	2	2				
28200200	FILTER FABRIC	SQ YD	2	2				
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	450	450				
40600535	LEVELING BINDER (HAND METHOD), N70	TON	15	15				
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	22	22				
42101300	PROTECTIVE COAT	SQ YD	720	720				
42400400	PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH	SQ FT	660	660				
44000100	PAVEMENT REMOVAL	SQ YD	80	80				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1650	1650				
44000600	SIDEWALK REMOVAL	SQ FT	460	460				
44003100	MEDIAN REMOVAL	SQ FT	6075	6075				
50105220	PIPE CULVERT REMOVAL	FOOT	8	8				
54201279	PIPE CULVERTS, TYPE 2 RCCP 24"	FOOT	16	16				
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1				
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	1	1				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1				
60604200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	870	870				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		IL 50 @ 207th				
				I000-1A 80% FED 20% STATE	Y031-1F 80% FED 10% STATE 10% VILLAGE	Y031-3D 100% VILLAGE		
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	2110	2110				
60619900	CONCRETE MEDIAN, TYPE SB-6.12 (SPECIAL)	SQ FT	1660	1660				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3				
67100100	MOBILIZATION	L SUM	1	1				
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	400	400				
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	380	380				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3900	3900				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2000	2000				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	100	100				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	150	150				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3300	3300				
* 72000100	SIGN PANEL - TYPE 1	SQ FT	14			14		
* 72000200	SIGN PANEL - TYPE 2	SQ FT	25			25		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	380	380				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3900	3900				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2000	2000				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	100	100				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150	150				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	100	100				
78300100	PAVEMENT MARKING REMOVAL	SQ FT	920	920				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	70	70				
* 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	665			665		

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

Rev.

PLOT DATE: 10/25/2006

10/25/2006

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		IL 50 @ 207th					
				I000-1A 80% FED 20% STATE	Y031-1F 80% FED 10% STATE 10% VILLAGE	Y031-3D 100% VILLAGE			
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	89	89					
81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	10	10					
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	203	203					
81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	90	90					
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	121	121					
81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	135	135					
81400100	HANDHOLE	EACH	4	4					
81400200	HEAVY-DUTY HANDHOLE	EACH	4	4					
81400300	DOUBLE HANDHOLE	EACH	2	2					
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	759	759					
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1					
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	913	913					
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1586	1586					
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1162	1162					
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1537	1537					
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1600	1600					
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	228	228					
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2	2					
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2	2					
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1	1					
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	1					
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2	2					

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		IL 50 @ 207th					
				I000-1A 80% FED 20% STATE	Y031-1F 80% FED 10% STATE 10% VILLAGE	Y031-3D 100% VILLAGE			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20	20					
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4	4					
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60	60					
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6	6					
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	2					
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2	2					
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	2					
88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2	2					
88102740	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	3	3					
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8	8					
88500100	INDUCTIVE LOOP DETECTOR	EACH	8	8					
88600100	DETECTOR LOOP, TYPE I	FOOT	1166	1166					
88700200	LIGHT DETECTOR	EACH	2		2				
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1				
88800100	PEDESTRIAN PUSH-BUTTON	EACH	5	5					
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	103.4	103.4					
X0322903	SAW CUTTING, (FULL DEPTH)	FOOT	1745	1745					
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	22	22					
X4066740	LEVELING BINDER (HAND METHOD), SUPERPAVE N70	TON	15	15					
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	2	2					
*X8050010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1	1					
*X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	737	737					
*X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	272	272					
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1	1					
35400542	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 15 1/2"	SQ YD	260	260					

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

Rev.

PLOT DATE: 10/25/2006

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	5
STA. 45+67		TO STA. 49+59		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

LEGEND

- ① EXISTING PCC BASE COURSE, 15"(\pm)
- ② EXISTING HOT-MIX ASPHALT SURFACE COURSE, 3"(\pm)
- ③ EXISTING PCC SIDEWALK, 7"
- ④ EXISTING COMBINATION CONC. CURB & GUTTER, TYPE B-6.12
- ⑤ EXISTING COMBINATION CONC. CURB & GUTTER, TYPE B-6.24
- ⑥ EXISTING CRUSHED STONE
- ⑦ EXISTING PC CONCRETE CURB
- ⑧ EXISTING CONCRETE MEDIAN SURFACE
- ⑨ PROPOSED PCC SIDEWALK, 7"
- ⑩ PROPOSED CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)
- ⑪ PROPOSED 1 1/2" HOT-MIX ASPHALT SURF. CRSE, MIX "D", N70
- ⑫ PROPOSED 1" LEVELING BINDER (HM), N70
- ⑬ PROPOSED 15 1/2" PCC BASE COURSE
- ⑭ SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ⑮ PROPOSED CONCRETE MEDIAN SURFACE, 4"

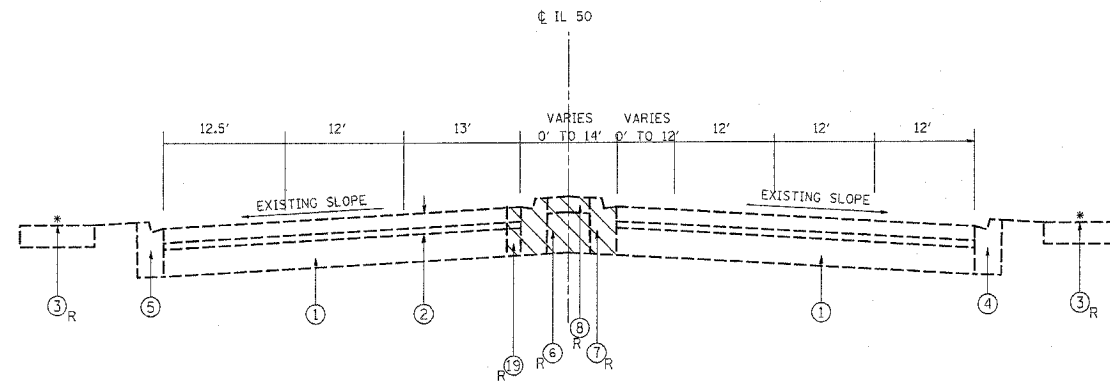
- ⑯ PROP. DRILL AND GROUT #4 TIE BAR, SHAPE (24" C-C), COST INCLUDED IN CONCRETE CURB AND GUTTER, TYPE B-6.12 PAY ITEM
- ⑰ PROP. COARSE AGGREGATE - FILL TO SUBGRADE (TYP.) COST INCLUDED IN CONC. MEDIAN SURFACE 4" PAY ITEM
- ⑱ PROP. 5/8" PREFORMED EXPANSION JOINT FILLER - COST INCLUDED IN CONCRETE CURB AND GUTTER, TYPE B-6.12 PAY ITEM
- ⑲ PAVEMENT REMOVAL (VARIES FROM 0' TO 2')
- ⑳ CONCRETE MEDIAN TYPE SB-6.12 (SPECIAL)
R- DESIGNATED FOR REMOVAL

NOTES:

* SEE ROADWAY PLAN SHEETS FOR SIDEWALK REMOVAL AND REPLACEMENT LOCATIONS

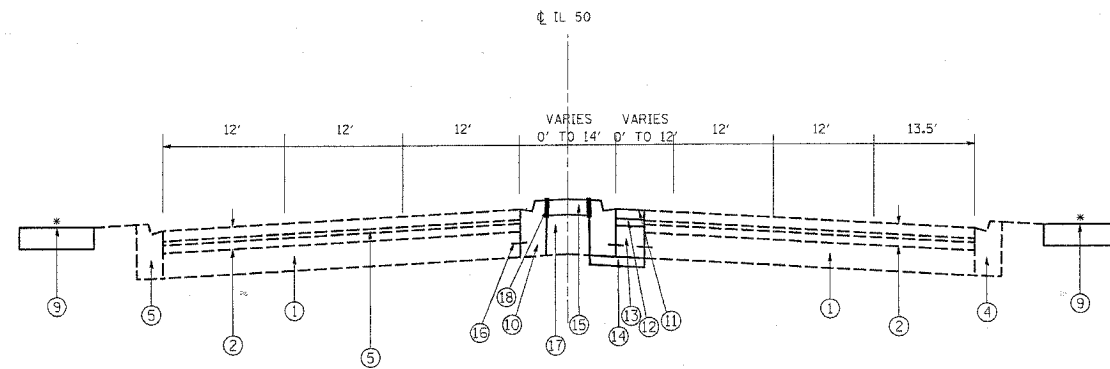
ITEMS 11-13 HAVE A VARIABLE WIDTH FROM 0' TO 5'

ANY SUB-BASE GRANULAR MATERIAL UNDER THE CURB AND GUTTER SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE COST PER SQUARE YARD OF "SUB-BASE GRANULAR MATERIAL, TYPE B 4"



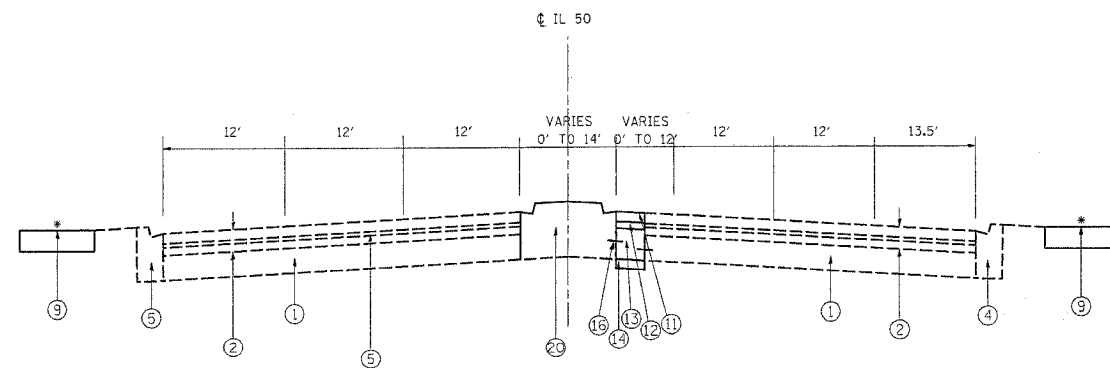
EXISTING TYPICAL SECTION
IL 50

STATION
45+67 TO 49+59



PROPOSED TYPICAL SECTION
IL 50

STATION
45+67 TO 47+47



PROPOSED TYPICAL SECTION
IL 50

STATION
47+47 TO 49+59

BITUMINOUS MIXTURE REQUIREMENTS

MIXTURE USE	AC TYPE	MAX RAP. (%)	AIR VOIDS (%)
LEVELING BINDER (HM), N70	PG 64-22/ 58-22	15/25%	4% @ 70 GYR
HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70	PG 64-22	10/15%	4% @ 70 GYR

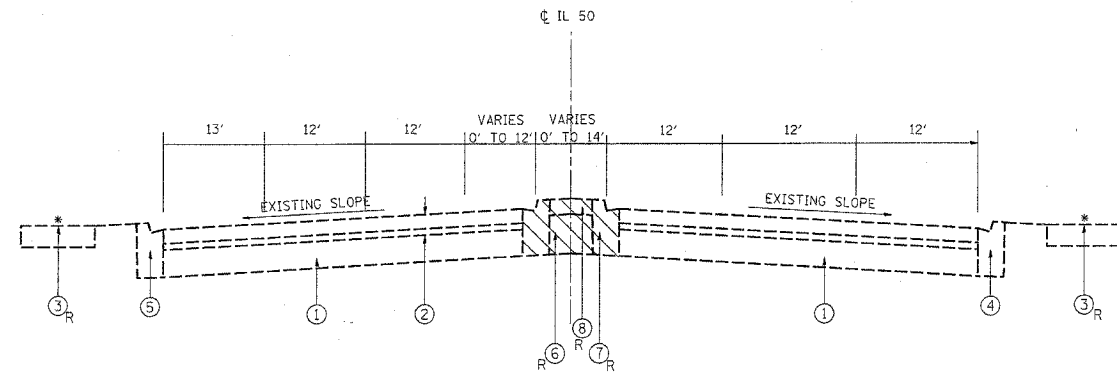
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

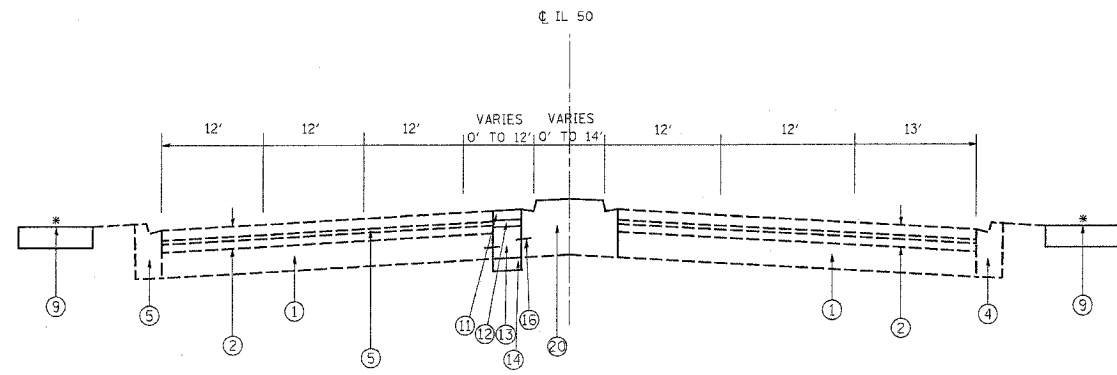
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>TYPICAL SECTIONS</p> <p>SCALE: VERT. _____ HORIZ. _____</p> <p>DATE _____ DRAWN BY _____ CHECKED BY _____</p>

PLOT DATE = 10/25/2006
 FILE NAME = c:\pro\p065\128485\dmsugm00.m32
 PLOT SCALE = 56.8000' / IN.
 USER NAME = emtkcl

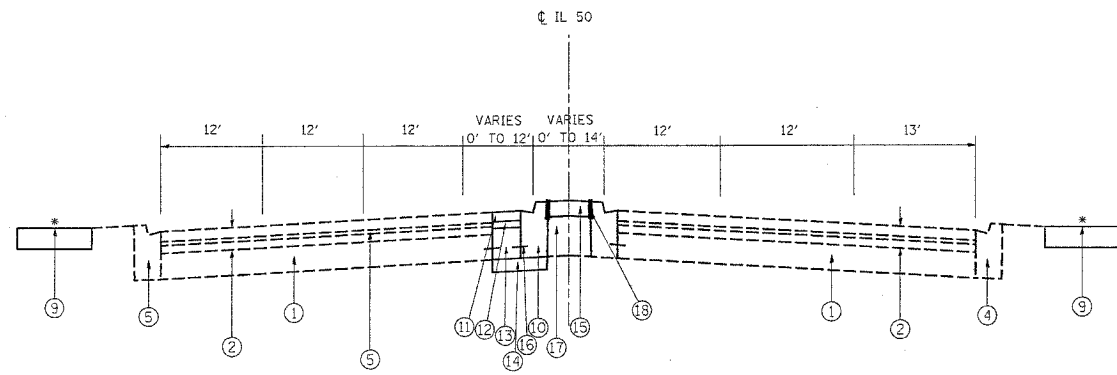
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	6
STA. 50+58		TO STA. 54+26		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



EXISTING TYPICAL SECTION
IL 50
STATION
50+58 TO 54+26



PROPOSED TYPICAL SECTION
IL 50
STATION
50+58 TO 52+61



PROPOSED TYPICAL SECTION
IL 50
STATION
52+61 TO 54+26

LEGEND

- ① EXISTING PCC BASE COURSE, 15" (±)
- ② EXISTING HOT-MIX ASPHALT SURFACE COURSE, 3" (±)
- ③ EXISTING PCC SIDEWALK, 7"
- ④ EXISTING COMBINATION CONC. CURB & GUTTER, TYPE B-6.12
- ⑤ EXISTING COMBINATION CONC. CURB & GUTTER, TYPE B-6.24
- ⑥ EXISTING CRUSHED STONE
- ⑦ EXISTING PC CONCRETE CURB
- ⑧ EXISTING CONCRETE MEDIAN SURFACE
- ⑨ PROPOSED PCC SIDEWALK, 7"
- ⑩ PROPOSED CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)
- ⑪ PROPOSED 1 1/2" HOT-MIX ASPHALT SURF. CRSE, MIX "D", N70
- ⑫ PROPOSED 1" LEVELING BINDER (HM), N70
- ⑬ PROPOSED 15 1/2" PCC BASE COURSE
- ⑭ SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ⑮ PROPOSED CONCRETE MEDIAN SURFACE, 4"
- ⑯ PROP. DRILL AND GROUT #4 TIE BAR, SHAPE (24" C-C), COST INCLUDED IN CONCRETE CURB AND GUTTER, TYPE B-6.12 PAY ITEM
- ⑰ PROP. COARSE AGGREGATE - FILL TO SUBGRADE (TYP.) COST INCLUDED IN CONC. MEDIAN SURFACE 4" PAY ITEM
- ⑱ PROP. 5/8" PREFORMED EXPANSION JOINT FILLER - COST INCLUDED IN CONCRETE CURB AND GUTTER, TYPE B-6.12 PAY ITEM
- ⑲ PAVEMENT REMOVAL (VARIES FROM 0' TO 2')
- ⑳ CONCRETE MEDIAN TYPE SB-6.12 (SPECIAL)
- R- DESIGNATED FOR REMOVAL

NOTES:

* SEE ROADWAY PLAN SHEETS FOR SIDEWALK REMOVAL AND REPLACEMENT LOCATIONS

ITEMS 11-13 HAVE A VARIABLE WIDTH FROM 0' TO 4'

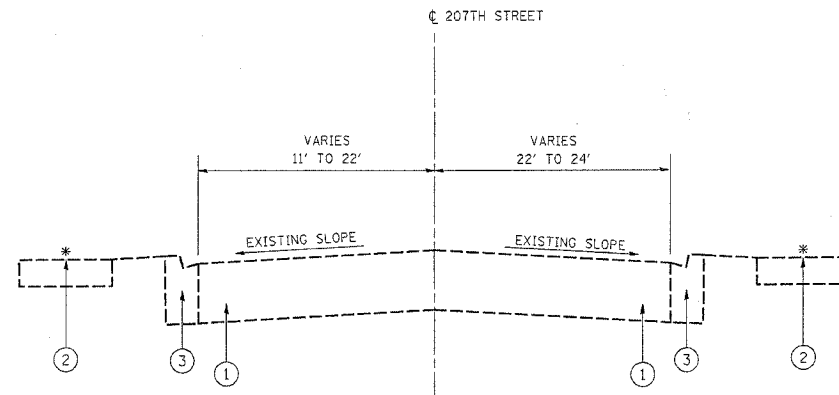
ANY SUB-BASE GRANULAR MATERIAL UNDER THE CURB AND GUTTER SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE COST PER SQUARE YARD OF "SUB-BASE GRANULAR MATERIAL, TYPE B 4"

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		TYPICAL SECTIONS

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

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 USER NAME = mshah1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	7
STA. 16+15		TO STA. 23+80		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



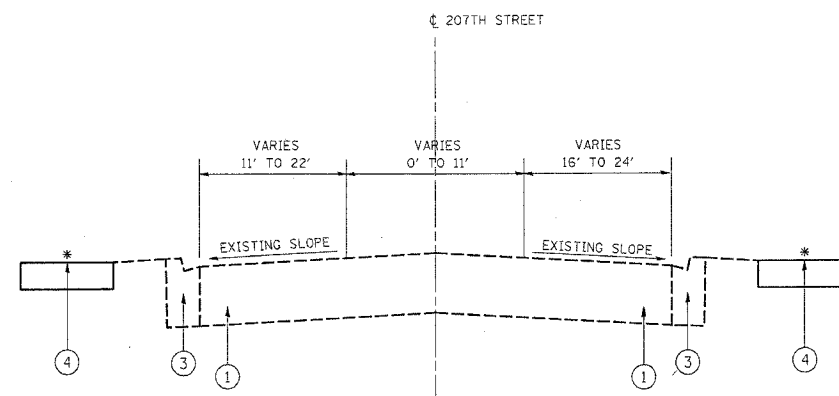
EXISTING TYPICAL SECTION
207TH STREET

STATION
16+15 TO 23+80

LEGEND

- ① EXISTING HOT-MIX ASPHALT, 10''(±)
- ② EXISTING PCC SIDEWALK, 7''
- ③ EXISTING COMBINATION CONC. CURB & GUTTER, TYPE B-6.12
- ④ PROPOSED PCC SIDEWALK, 7''

* SEE ROADWAY PLAN SHEETS FOR SIDEWALK REMOVAL AND REPLACEMENT LOCATIONS.



PROPOSED TYPICAL SECTION
207TH STREET

STATION
16+15 TO 23+80

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		TYPICAL SECTIONS

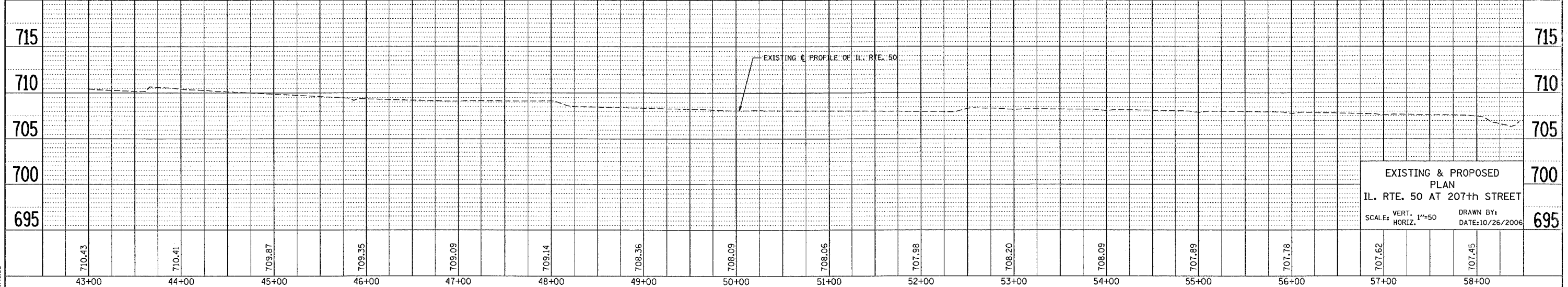
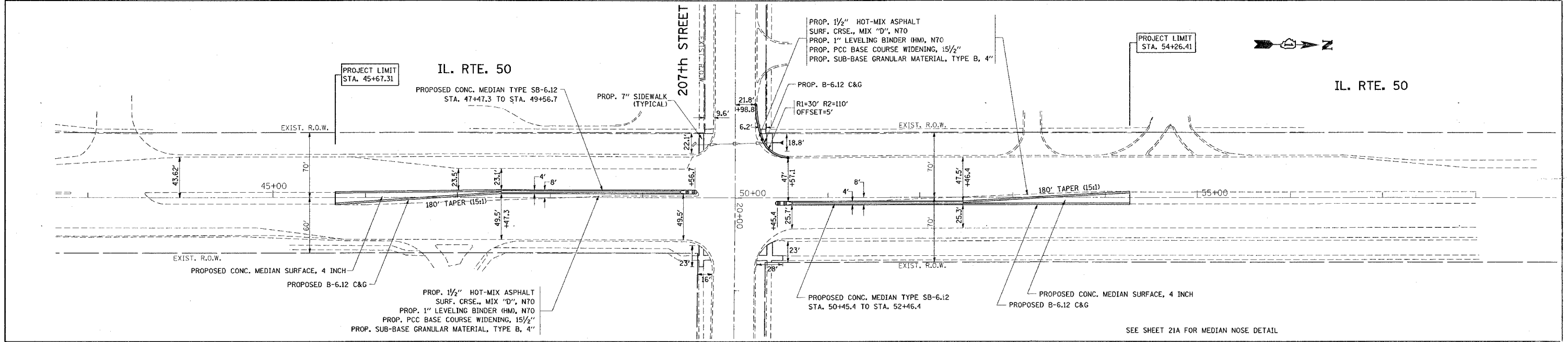
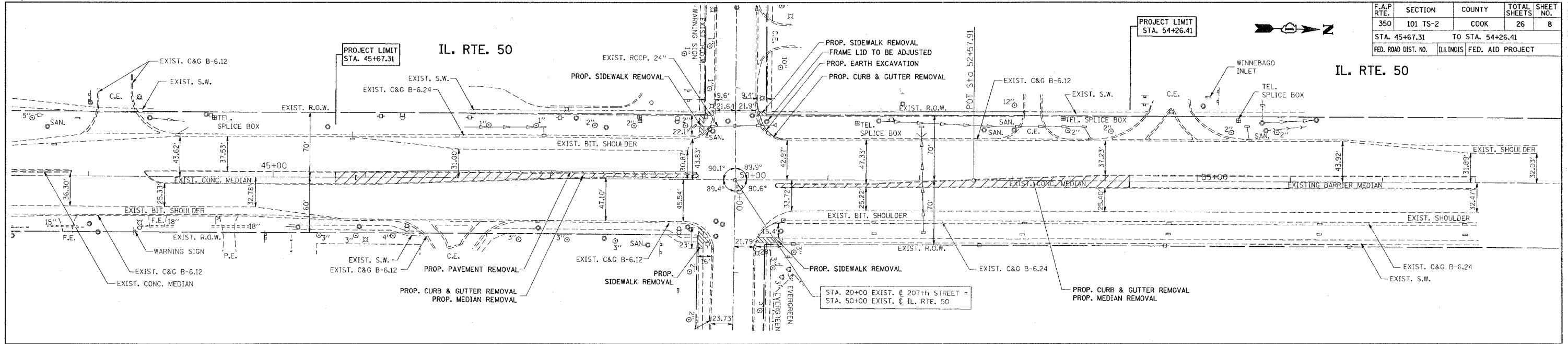
SCALE: VERT. / HORIZ.
DATE / DRAWN BY / CHECKED BY

PLOT DATE = 10/25/2006
FILE NAME = s:\projects\10129405\design\m32
DRAWING / IN.
USER NAME = emh34

*REF-top02
 *REF-pp02
 *REF-pr02

CONTRACT NO. 60A64

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	8
STA. 45+67.31		TO STA. 54+26.41		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

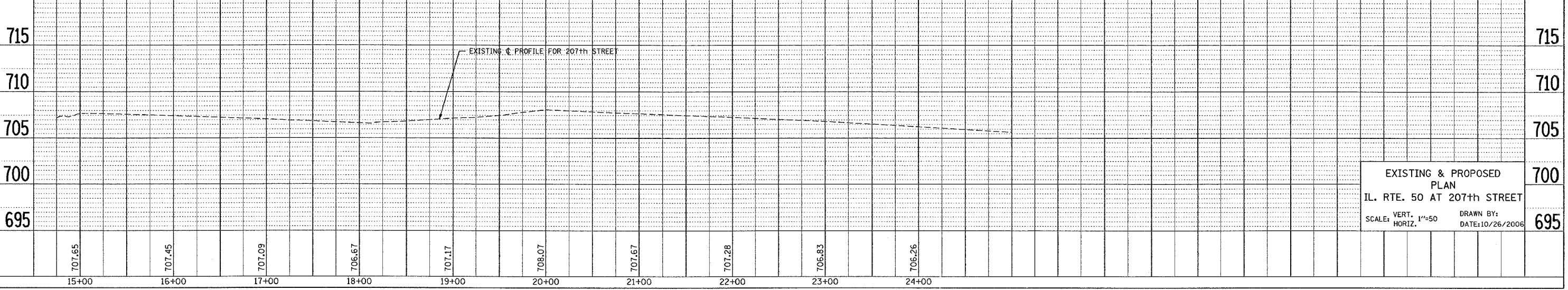
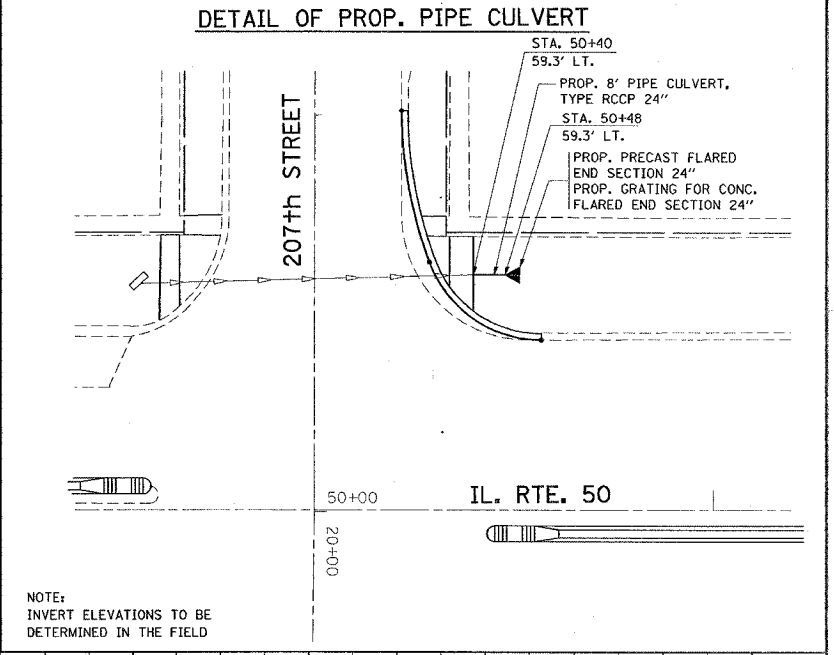
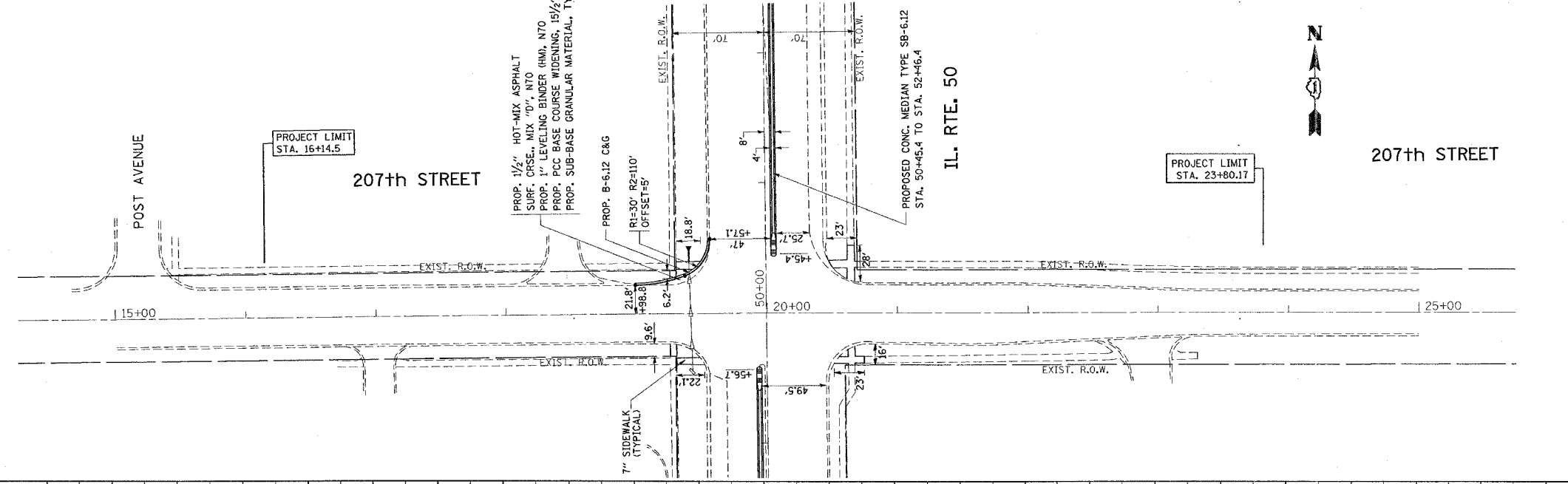
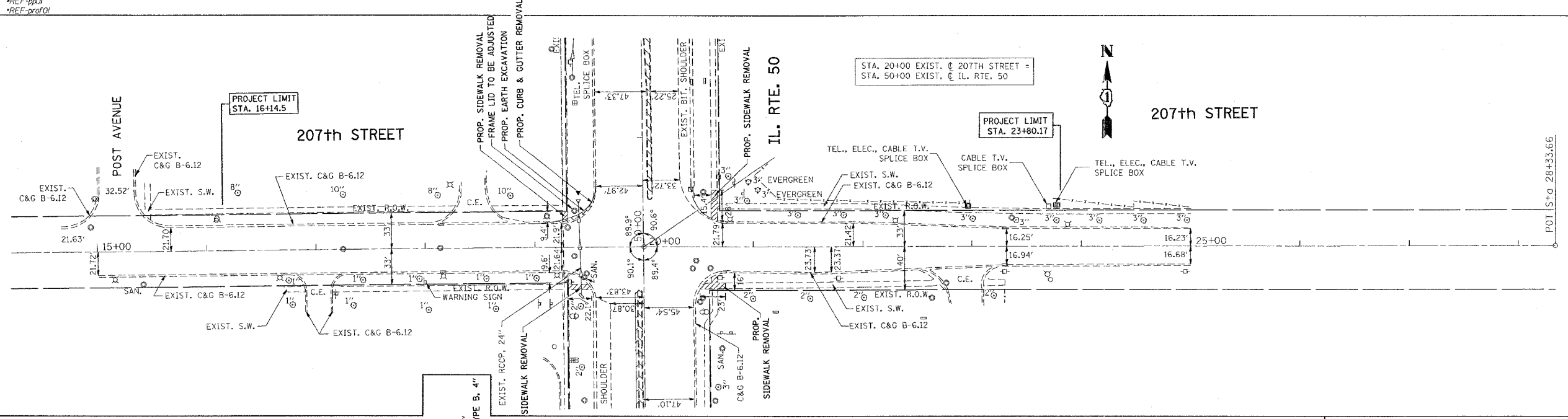


10/26/2006
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 ulfrk

*REF-topo01
 *REF-pp01
 *REF-profil

CONTRACT NO. 60A64

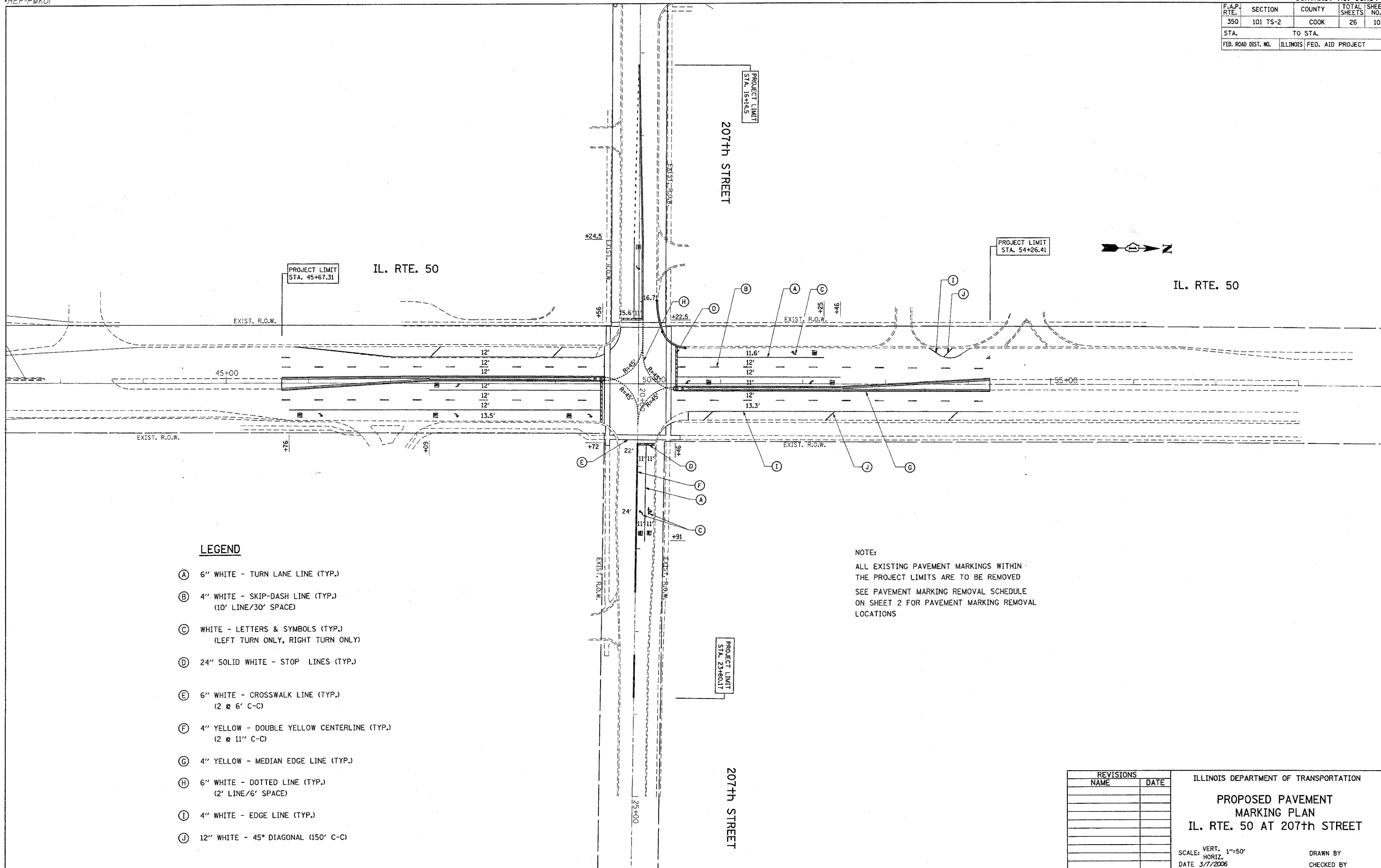
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	9
STA. 16+11.51		TO STA. 23+80.17		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



EXISTING & PROPOSED
 PLAN
 IL. RTE. 50 AT 207th STREET
 SCALE: VERT. 1"=50
 HORIZ. 1"=50
 DRAWN BY:
 DATE: 10/26/2006

10/26/2006
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 utrtokm

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND

- (A) 6" WHITE - TURN LANE LINE (TYP.)
- (B) 4" WHITE - SKIP-DASH LINE (TYP.)
(10' LINE/30' SPACE)
- (C) WHITE - LETTERS & SYMBOLS (TYP.)
(LEFT TURN ONLY, RIGHT TURN ONLY)
- (D) 24" SOLID WHITE - STOP LINES (TYP.)
- (E) 6" WHITE - CROSSWALK LINE (TYP.)
(2 @ 6' C-C)
- (F) 4" YELLOW - DOUBLE YELLOW CENTERLINE (TYP.)
(2 @ 11" C-C)
- (G) 4" YELLOW - MEDIAN EDGE LINE (TYP.)
- (H) 6" WHITE - DOTTED LINE (TYP.)
(2' LINE/6' SPACE)
- (I) 4" WHITE - EDGE LINE (TYP.)
- (J) 12" WHITE - 45° DIAGONAL (150' C-C)

NOTE:
ALL EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS ARE TO BE REMOVED
SEE PAVEMENT MARKING REMOVAL SCHEDULE ON SHEET 2 FOR PAVEMENT MARKING REMOVAL LOCATIONS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED PAVEMENT MARKING PLAN
IL. RTE. 50 AT 207th STREET

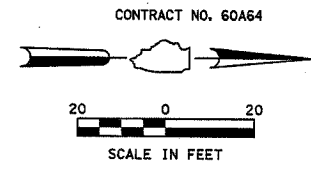
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HORIZ. DATE 3/7/2006
DRAWN BY
CHECKED BY

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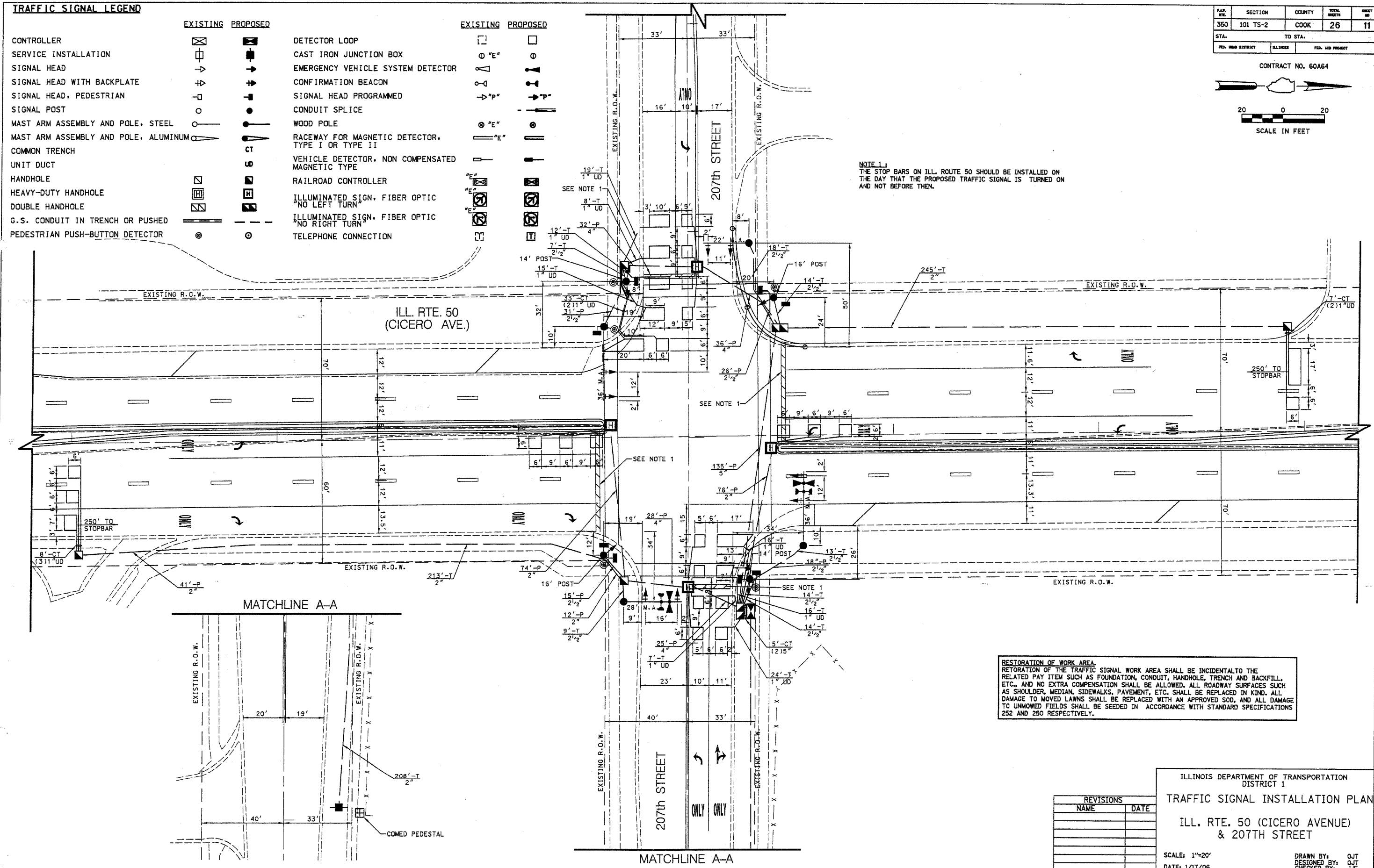
TRAFFIC SIGNAL LEGEND

	EXISTING	PROPOSED		EXISTING	PROPOSED
CONTROLLER			DETECTOR LOOP		
SERVICE INSTALLATION			CAST IRON JUNCTION BOX		
SIGNAL HEAD			EMERGENCY VEHICLE SYSTEM DETECTOR		
SIGNAL HEAD WITH BACKPLATE			CONFIRMATION BEACON		
SIGNAL HEAD, PEDESTRIAN			SIGNAL HEAD PROGRAMMED		
SIGNAL POST			CONDUIT SPLICE		
MAST ARM ASSEMBLY AND POLE, STEEL			WOOD POLE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM			RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
COMMON TRENCH			VEHICLE DETECTOR, NON COMPENSATED		
UNIT DUCT			MAGNETIC TYPE		
HANDHOLE			RAILROAD CONTROLLER		
HEAVY-DUTY HANDHOLE			ILLUMINATED SIGN, FIBER OPTIC NO LEFT TURN		
DOUBLE HANDHOLE			ILLUMINATED SIGN, FIBER OPTIC NO RIGHT TURN		
G.S. CONDUIT IN TRENCH OR PUSHED			TELEPHONE CONNECTION		
PEDESTRIAN PUSH-BUTTON DETECTOR					

F.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	11



NOTE 1:
THE STOP BARS ON ILL. ROUTE 50 SHOULD BE INSTALLED ON THE DAY THAT THE PROPOSED TRAFFIC SIGNAL IS TURNED ON AND NOT BEFORE THEN.



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 SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOVED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1

TRAFFIC SIGNAL INSTALLATION PLAN

ILL. RTE. 50 (CICERO AVENUE)
& 207TH STREET

SCALE: 1"=20'
DATE: 1/17/06

DRAWN BY: OJT
DESIGNED BY: OJT
CHECKED BY: JJE

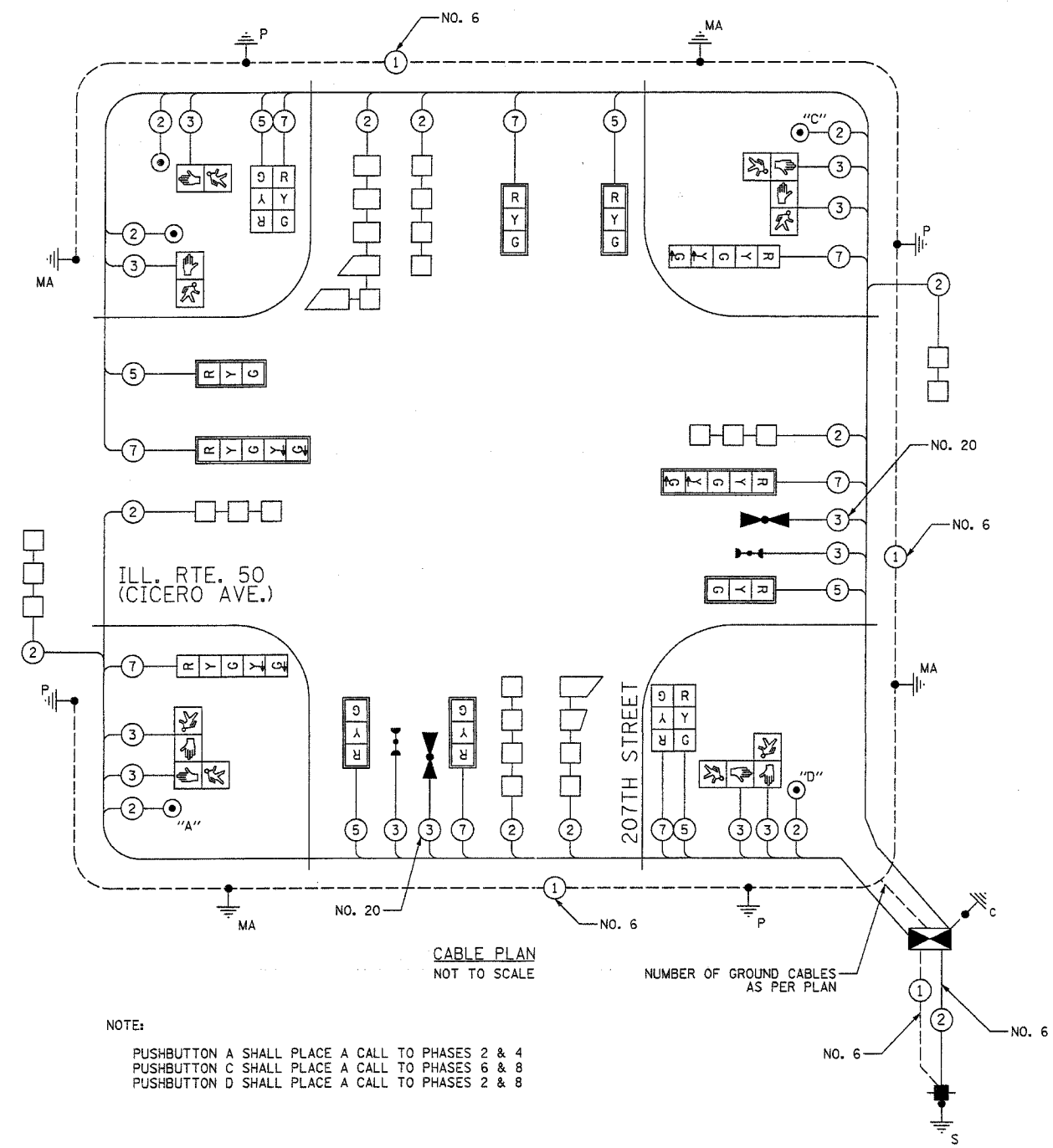
PAR. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	12
STAL.		TO STA.		
FED. ROAD DISTRICT	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60A64



CABLE PLAN LEGEND

- | | | |
|-----------------|-----------------|---|
| EXISTING | PROPOSED | |
| | | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | TELEPHONE CONNECTION |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | MICROWAVE VEHICLE SENSOR |
| | | SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN "NO LEFT TURN" |
| | | ILLUMINATED SIGN "NO RIGHT TURN" |
| | | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C). |
| | | GROUND ROD AT POST (P), OR MAST ARM POLE (MA). |
| | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |



NOTE:
 PUSHBUTTON A SHALL PLACE A CALL TO PHASES 2 & 4
 PUSHBUTTON C SHALL PLACE A CALL TO PHASES 6 & 8
 PUSHBUTTON D SHALL PLACE A CALL TO PHASES 2 & 8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	88
(GREEN)	14		15	0.25	53
ARROW	8		12	0.10	10
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					570

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHALMBURG, IL 60196-1096
 CONTACT: DENETTE PRICE
 PHONE: 708-235-2482
 COMPANY: COM ED

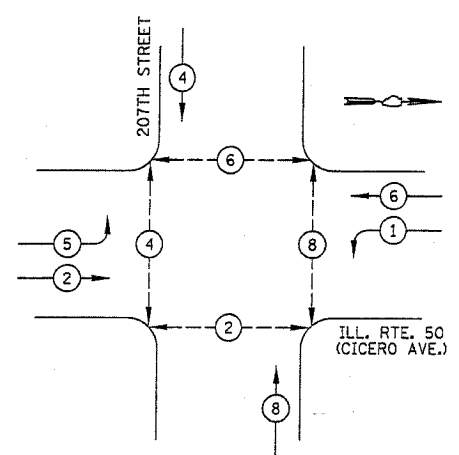
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (2.0)
D- CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-L-2' = (6m+L-0.6m)=
E- M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
CABLE PLAN
 ILL. RTE. 50 (CICERO AVENUE)
 & 207TH STREET
 NOT TO SCALE
 DATE: 1/17/06
 DRAWN BY: OJT
 DESIGNED BY: OJT
 CHECKED BY: JJE

CONTRACT NO. 60A64

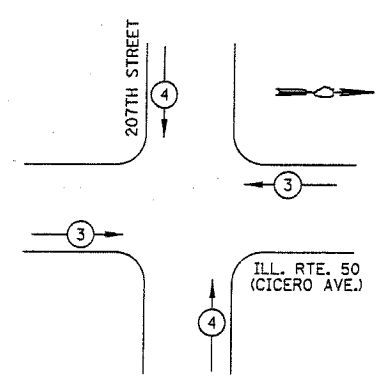
CONTROLLER SEQUENCE



- LEGEND
- DUAL ENTRY PHASE
 - SINGLE ENTRY PHASE
 - OVERLAP
 - PEDESTRIAN PHASE
 - NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

SCHEDULE OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000100	SIGN PANEL- TYPE 1	SQ FT	13.5
72000200	SIGN PANEL- TYPE 2	SQ FT	25
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	665
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	89
81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	10
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	203
81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	90
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	121
81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	135
81400100	HANDHOLE	EACH	4
81400200	HEAVY-DUTY HANDHOLE	EACH	4
81400300	DOUBLE HANDHOLE	EACH	2
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	759
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	913
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1586
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1162
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1537
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1PAIR	FOOT	1600
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C.	FOOT	228
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
88500100	INDUCTIVE LOOP DETECTOR	EACH	8
88600100	DETECTOR LOOP, TYPE 1	FOOT	1166
* 88700200	LIGHT DETECTOR	EACH	2
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	5
X8050010	SERVICE INSTALLATION, GROUND MOUNTED	EACH	1
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	737
* X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	272
X8800020	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
X8800040	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
X8800045	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
X8800060	SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
X8810610	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	2
X8810620	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	3

* 100% COST TO VILLAGE OF MATTESSON

REVISIONS	
NAME	DATE

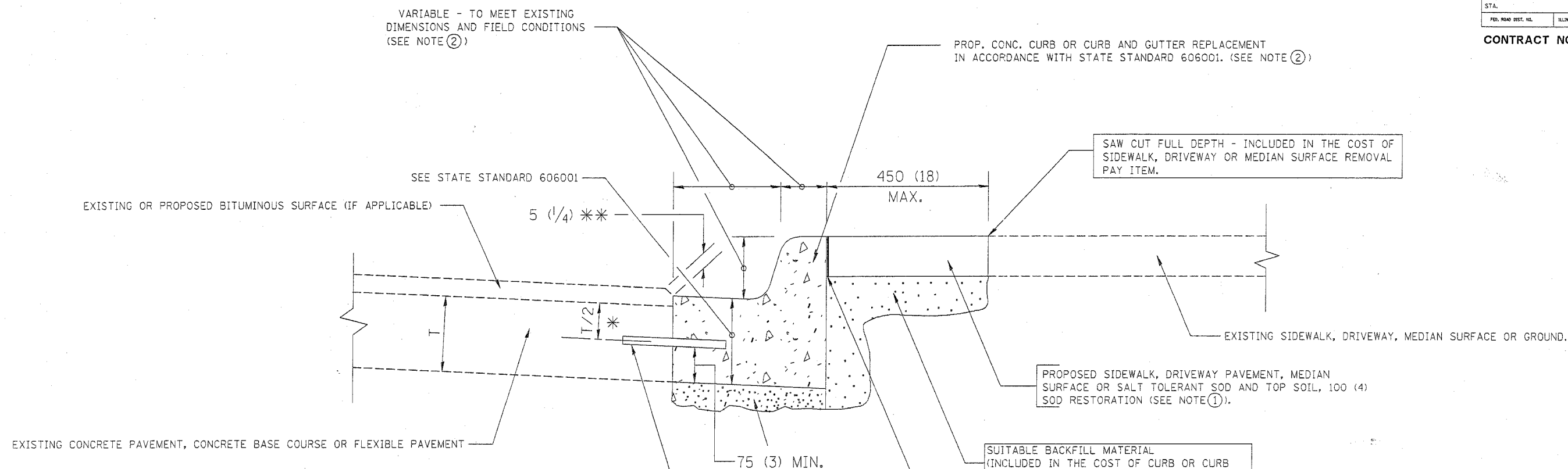
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
SEQUENCES, &
SCHEDULE OF QUANTITIES
ILL. RTE. 50 (CICERO AVENUE)
& 207TH STREET

NOT TO SCALE
DATE: 1/17/06

DRAWN BY: OJT
DESIGNED BY: OJT
CHECKED BY: JJE

F. & R. NTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60A64



- * 75 (3) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- * * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

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

SALT TOLERANT SOD AND TOP SOIL, 100 (4) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑤ THE COST OF BITUMINOUS SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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

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

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

PROPOSED NO. 20 (NO. 6) EPOXY COATED TIE BARS 600 (24) LONG AT 600 (24) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

REVISIONS	
NAME	DATE
M. DE YONG	05/28/91
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01

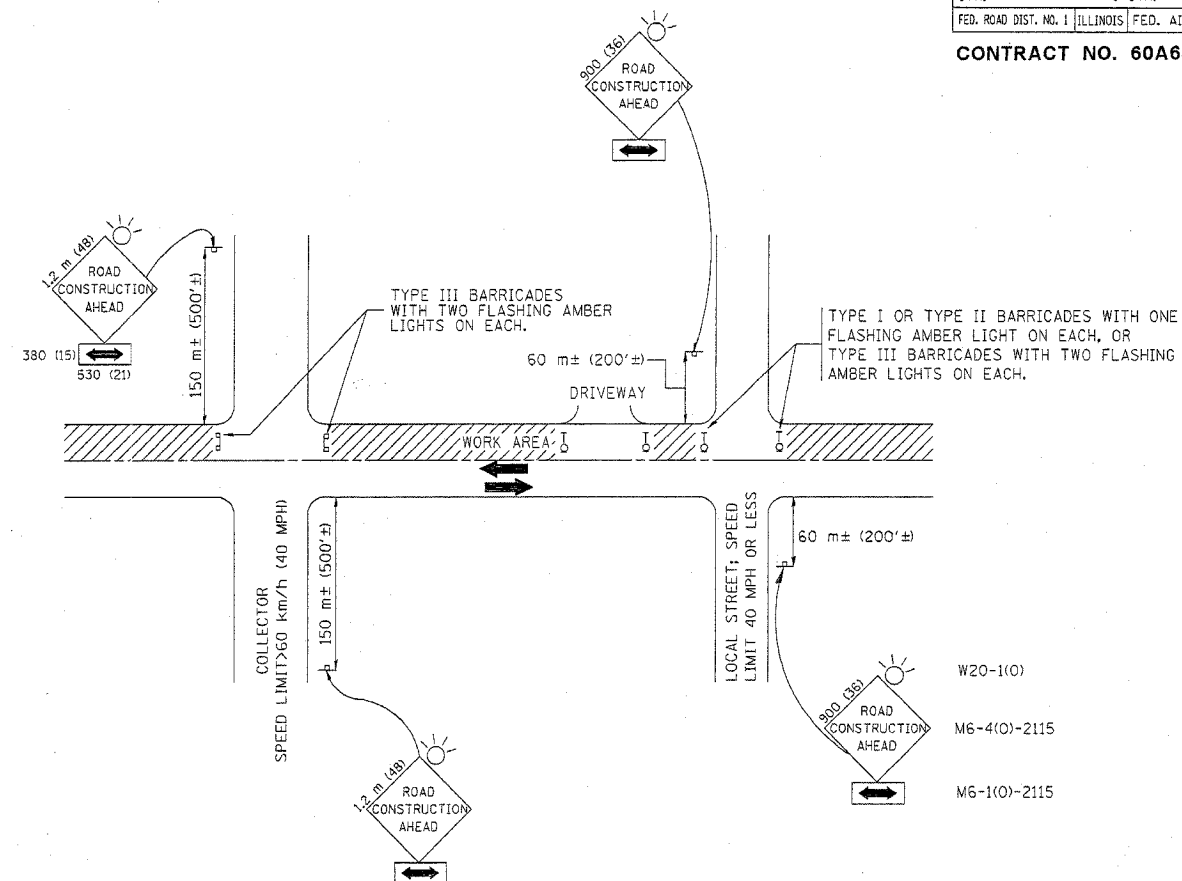
SCALE: NONE
DATE: 10/18/2002
DRAWN BY:
CHECKED BY:

BD600-06 (80-24)
REVISION DATE: 12/06/98

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	16
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 60A64



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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.

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS**

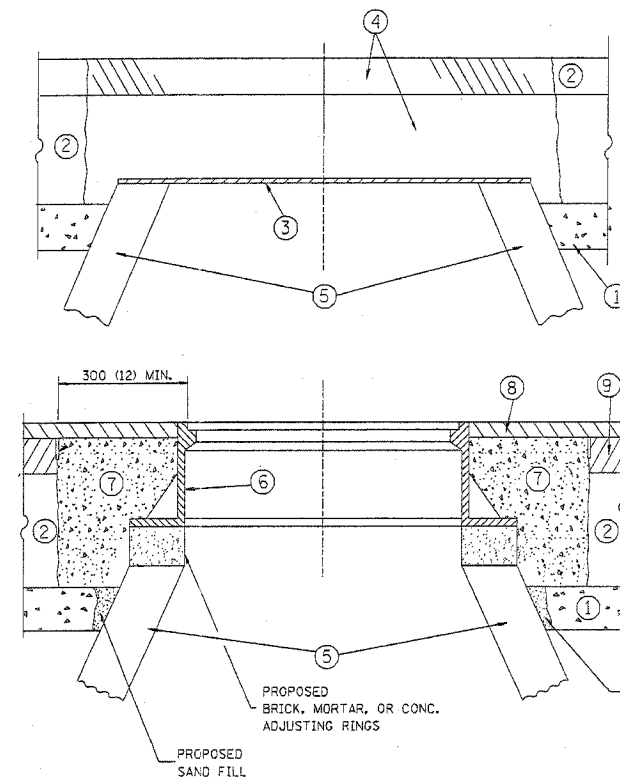
SCALE: VERT. _____
 HORIZ. _____
 DATE 10/19/2002

DRAWN BY _____
 CHECKED BY _____

REVISION DATE: 01/06/00

F. A. P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	16A
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60A64



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE BITUMINOUS MATERIAL AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR BITUMINOUS CONCRETE SURFACE OR BINDER COURSE MATERIAL TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: FRAMES AND LIDS TO BE ADJUSTED, SPECIAL EACH

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

NOTES:

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

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

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

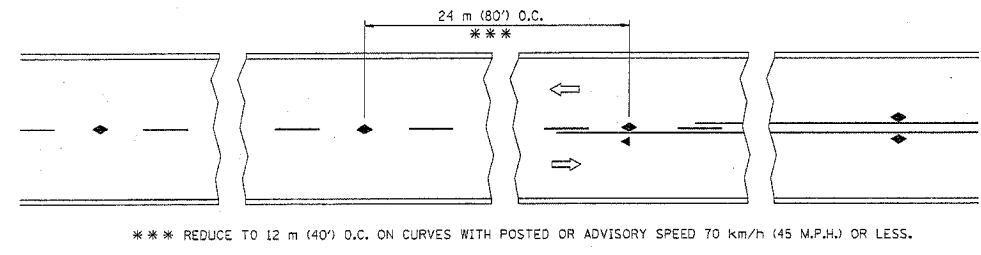
ILLINOIS DEPARTMENT OF TRANSPORTATION
**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04

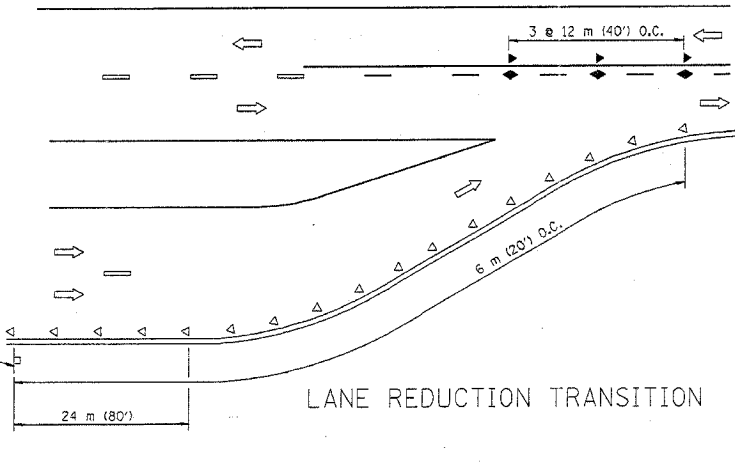
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DATE: 05/17/2004

DRAWN BY
CHECKED BY
BD600-03 (BD-8)
REVISION DATE: 05/17/04

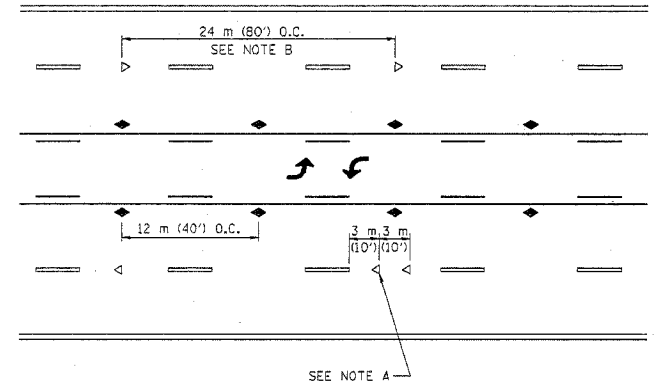
CONTRACT NO. 60A64



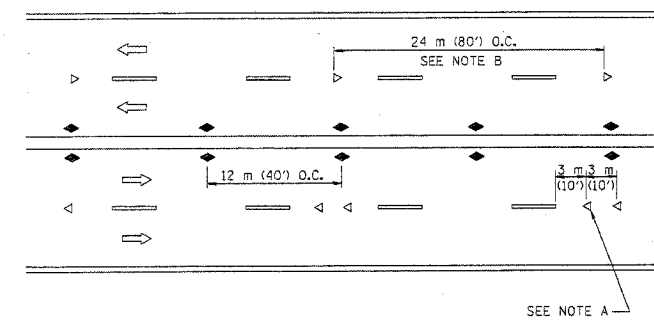
TWO-LANE/TWO-WAY



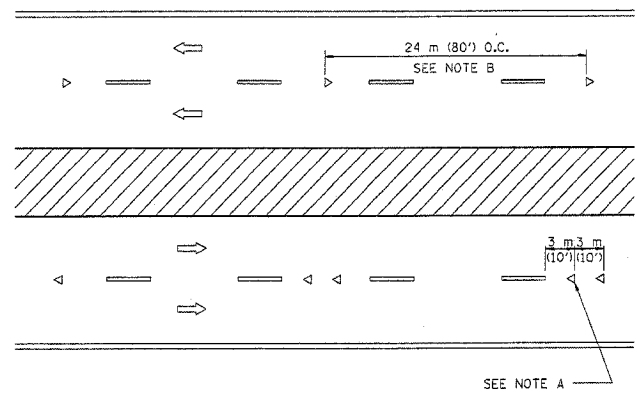
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

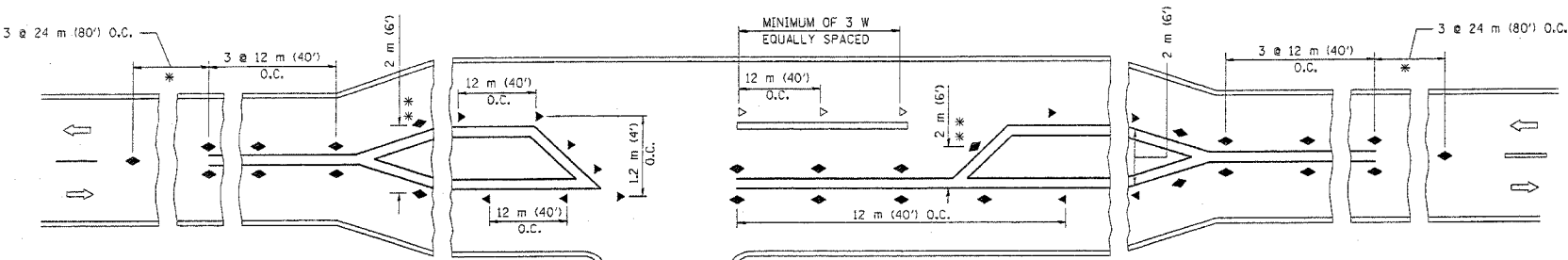
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 12 m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 20 km/h (10 M.P.H.) LOWER THAN POSTED SPEEDS.



LEFT TURN

- * SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
- ** WHERE THE MEDIAN WIDTH IS 2 m (6') OR LESS USE TWO-WAY MARKERS.

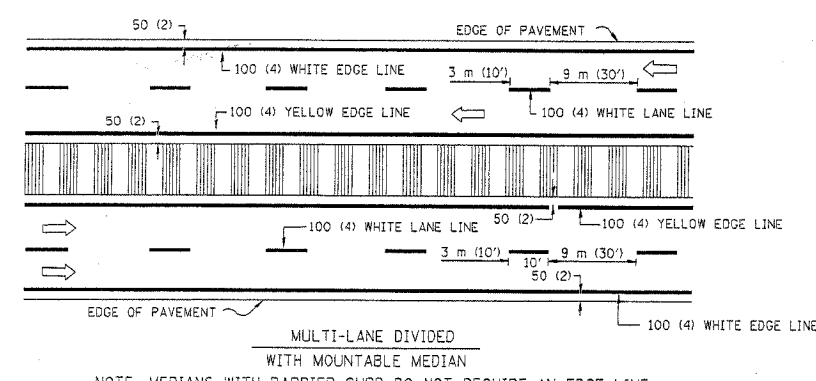
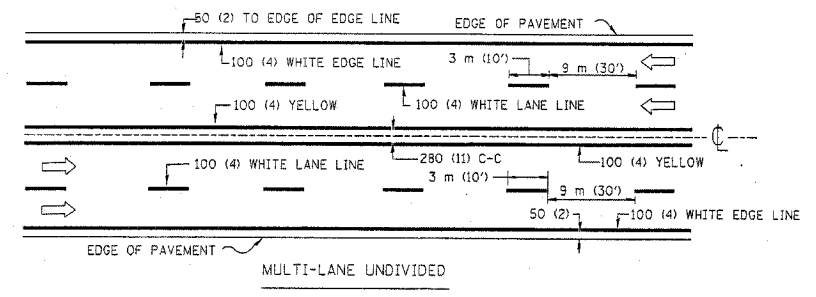
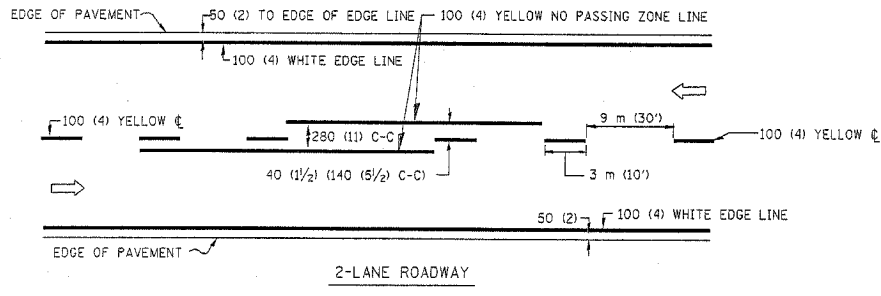
All dimensions are in millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS
(SNOW-PLOW RESISTANT)

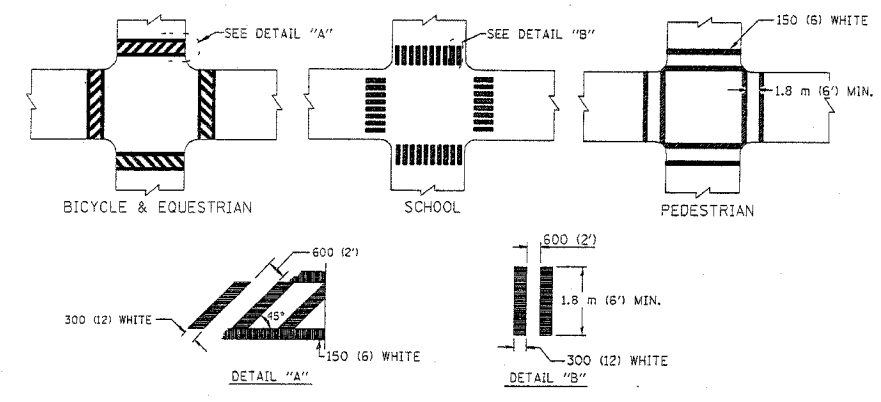
REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

SCALE: NONE
DATE: 10/18/2002
DRAWN BY CADD
CHECKED BY TC-11
REVISION DATE: 01/06/00

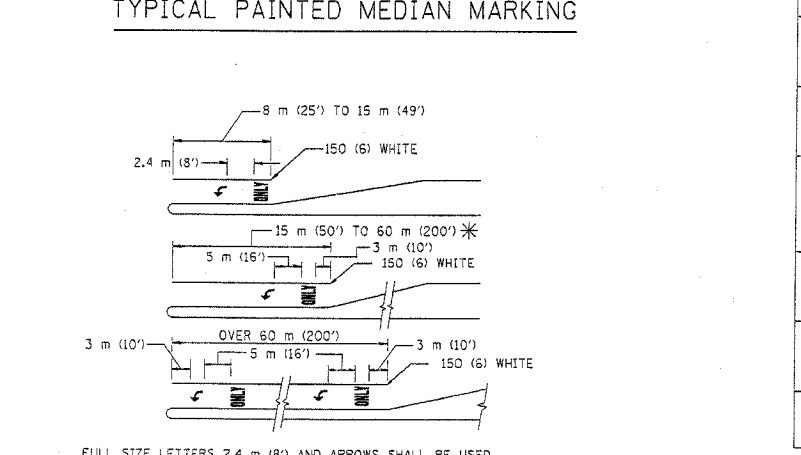
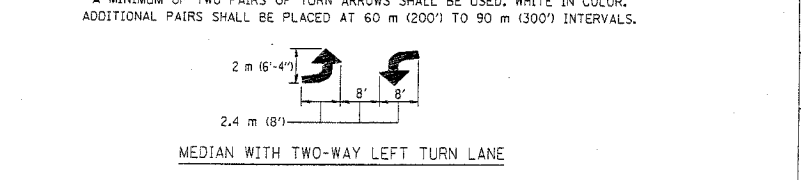
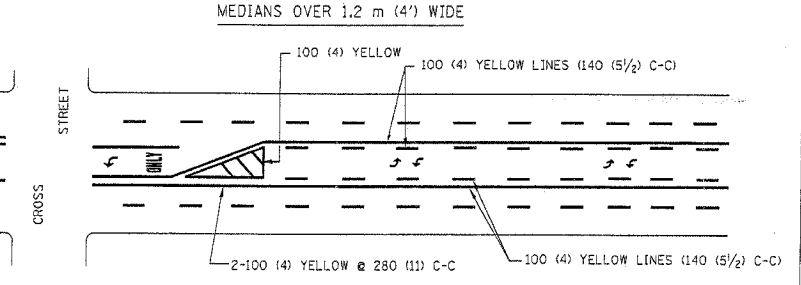
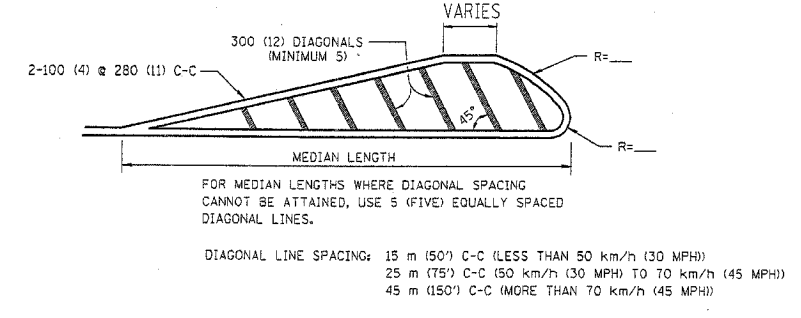
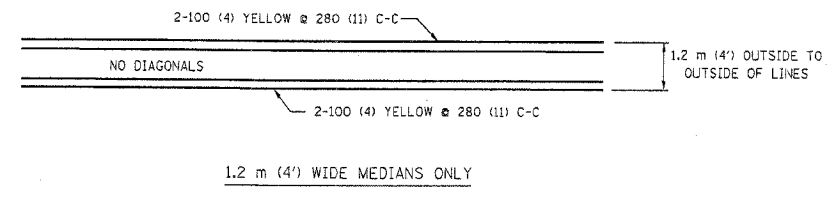
CONTRACT NO. 60A64



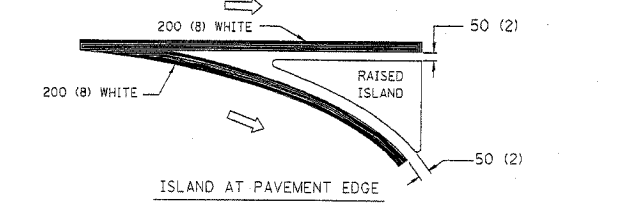
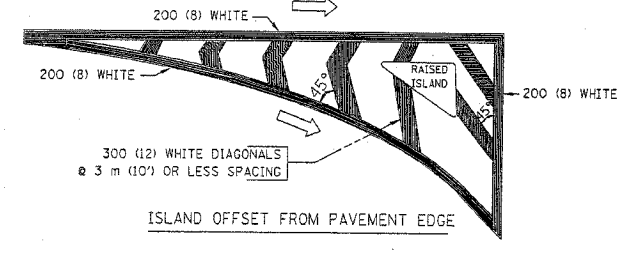
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" 15 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD T80001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD T80001.

REVISIONS		
NAME	DATE	
EVERS	03-19-90	
T. RAMMACHER	10-27-94	
ALEX HOUSEH	10-09-96	
ALEX HOUSEH	10-17-96	
T. RAMMACHER	01-06-00	

ILLINOIS DEPARTMENT OF TRANSPORTATION

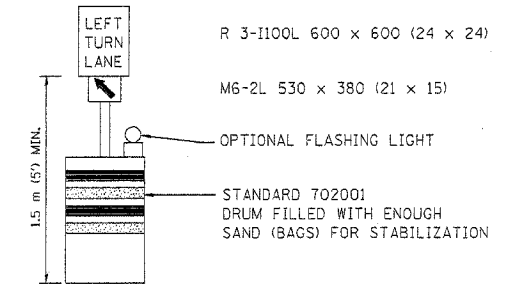
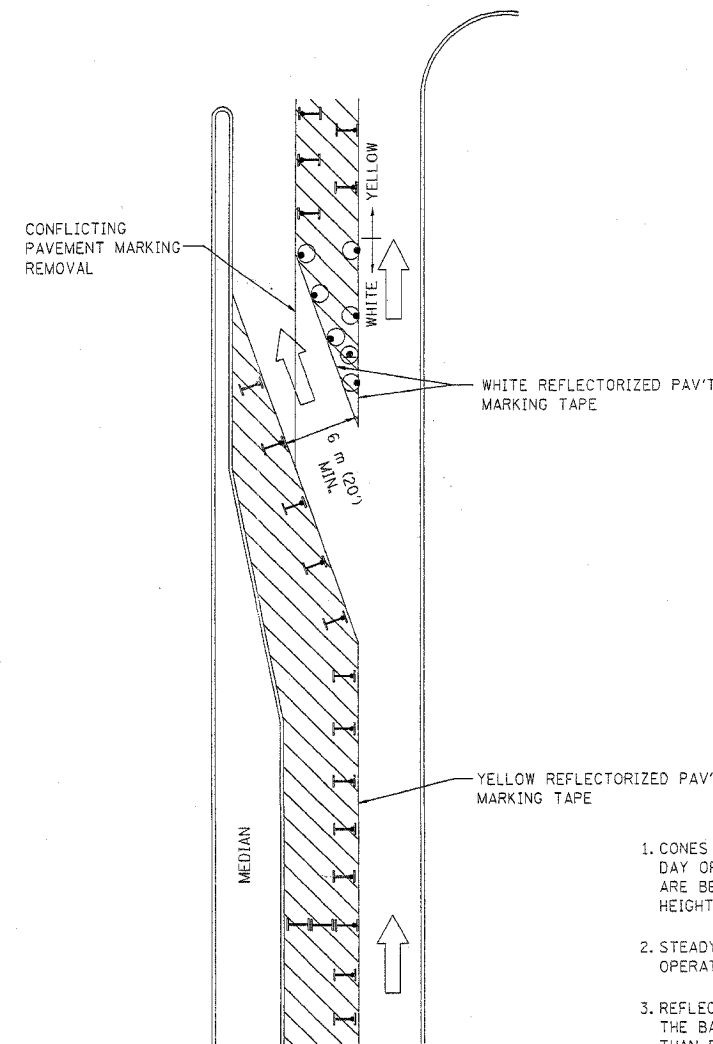
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE
DATE: 10/18/2002

DRAWN BY: CADD
CHECKED BY:
TC-13
REVISION DATE: 01/05/00

STATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
350	101 TS-2	COOK	26	19
STA.		TO STA.		
FED. AID DIST. NO.	SLIPPER	FED. AID PROJECT		


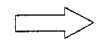




CONTRACT NO. 60A64



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 1.5 m (5').
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 600 x 600 (24 x 24) AND M6-2R 530 x 380 (21 x 15) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION
AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

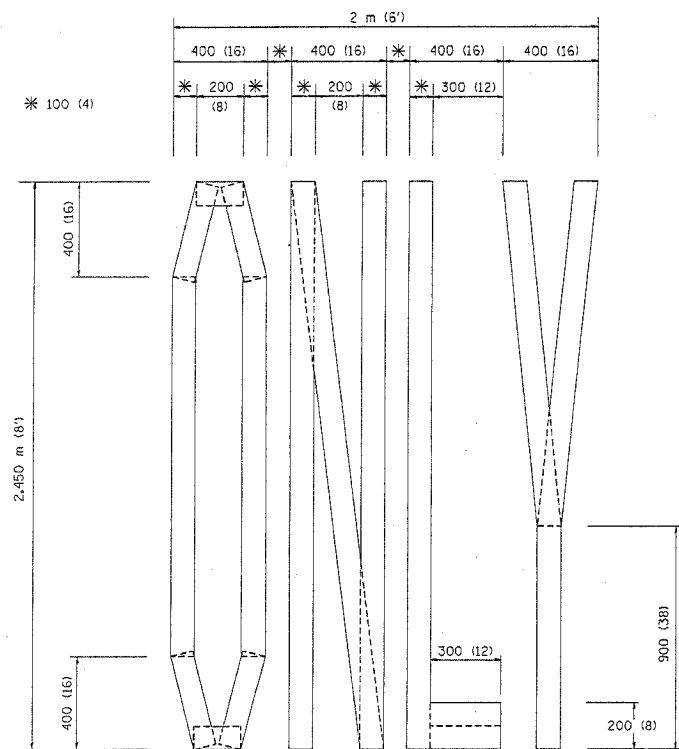
REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

SCALE: NONE
DATE: 10/18/2002

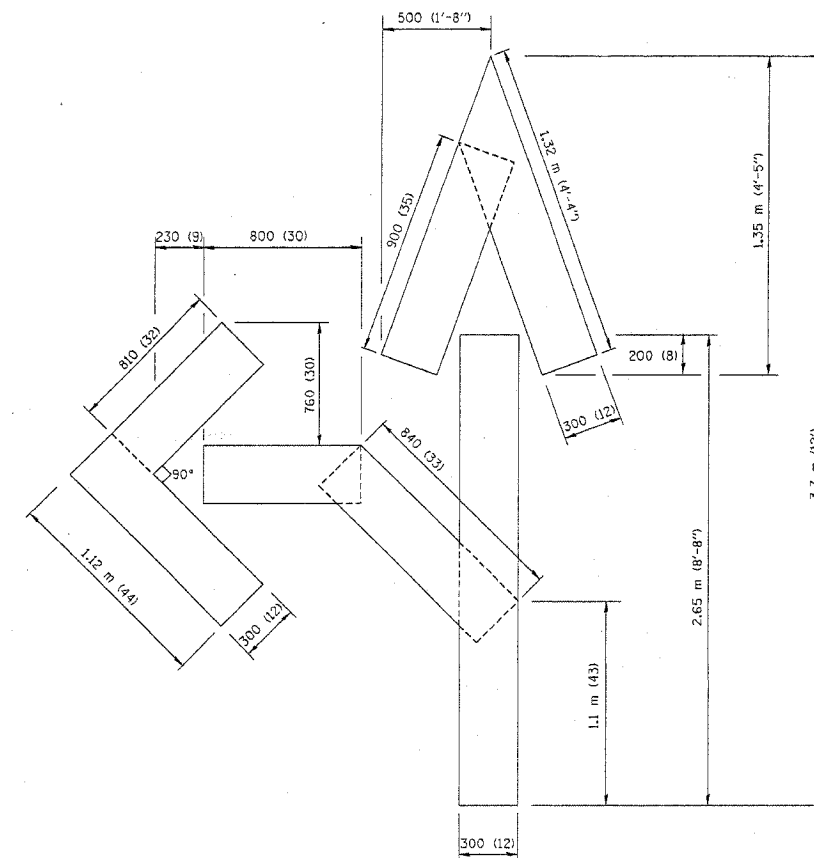
DRAWN BY
CHECKED BY LHA
TC-14

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ALIGNMENT	FED. AID PROJECT		

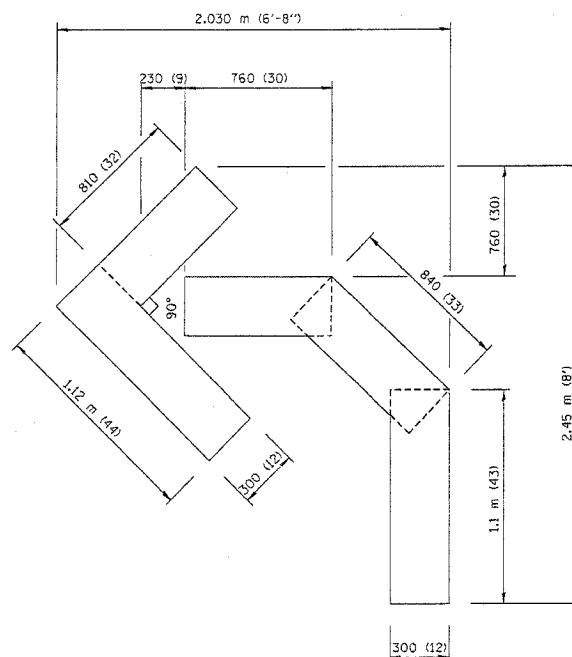
CONTRACT NO. 60A64



QUANTITY
 100 (4) LINE = 19.7 m (64.1 ft.)
 1.97 sq. m (21.1 sq. ft.)



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



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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

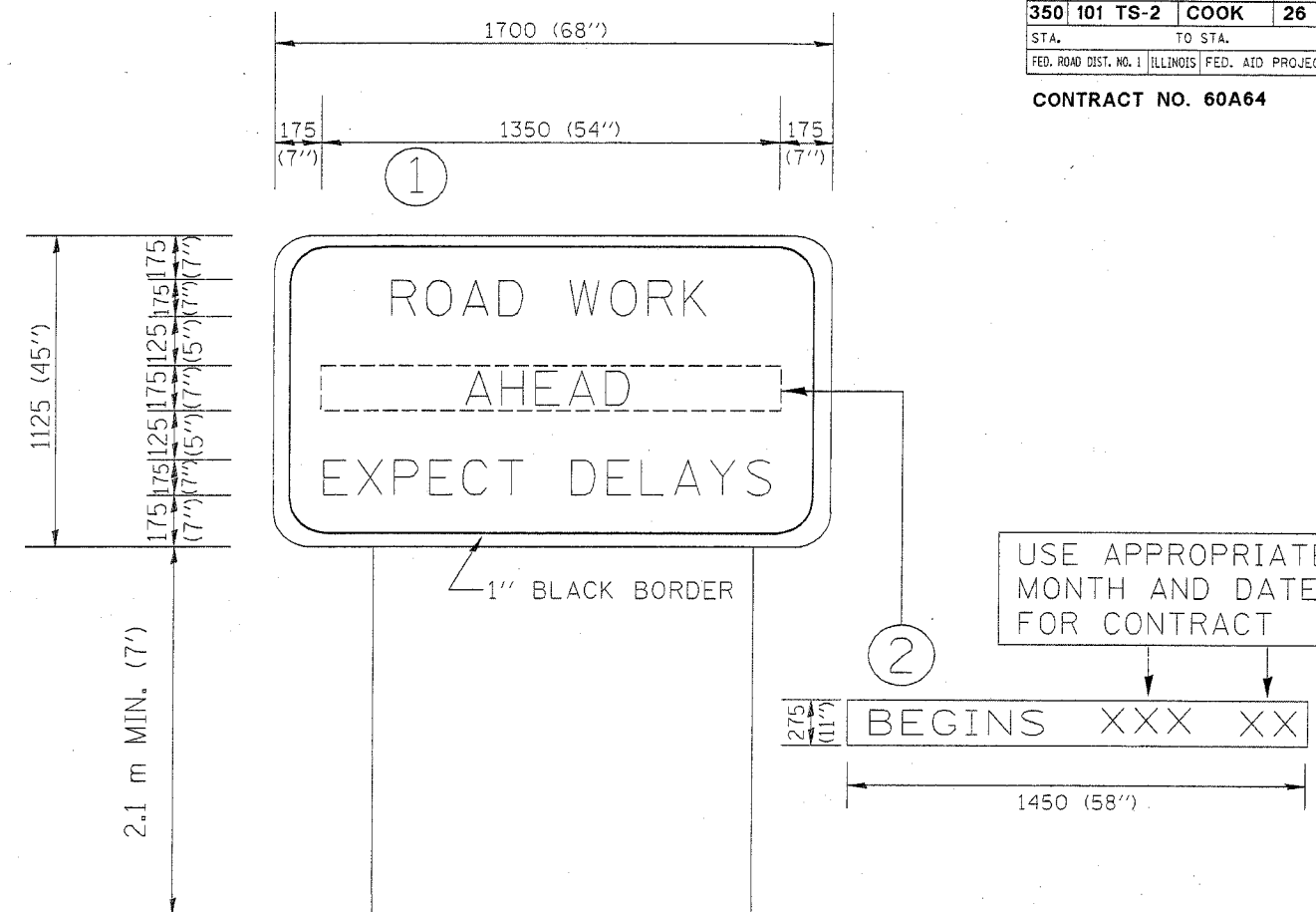
REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

SCALE: NONE
 DATE 10/18/2002

DRAWN BY CADD
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	21
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 60A64



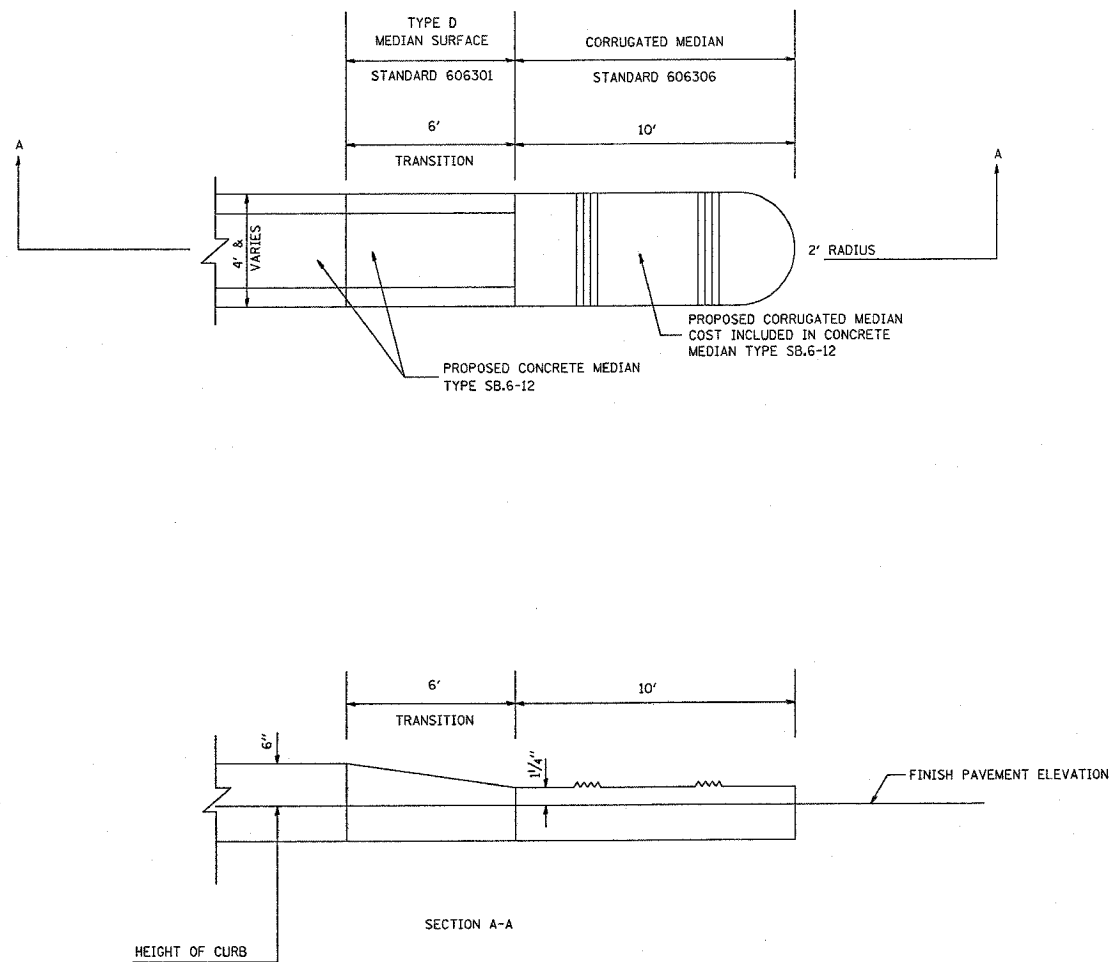
NOTES:

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

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

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
R. MIRS	9-15-97	TEMPORARY INFORMATION SIGNING
R. MIRS	12-11-97	
T. RAMMACHER	2-2-99	
		SCALE:
		DATE 10/18/2002
		DRAWN BY: BUR. OF DESIGN
		CHECKED BY

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	21A
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

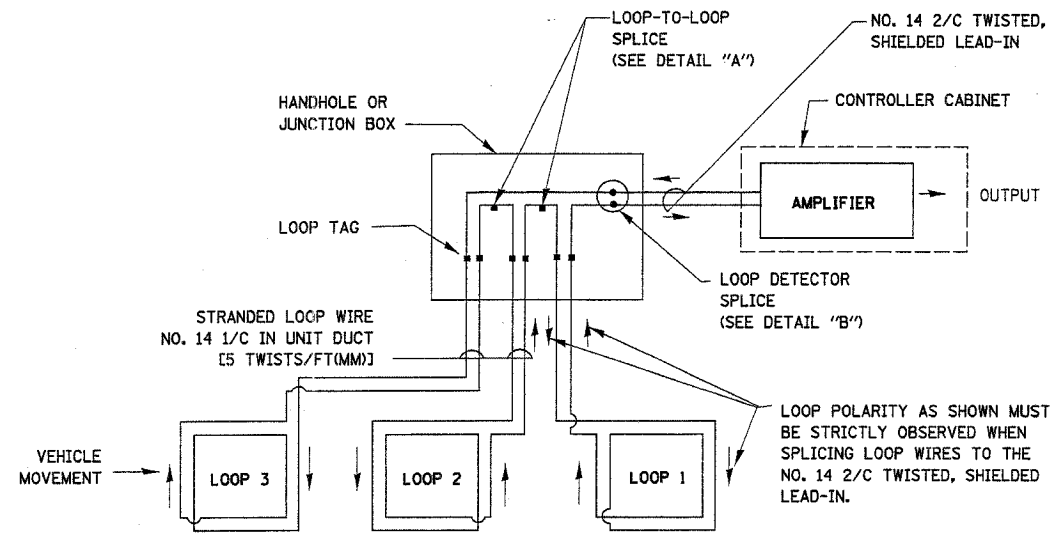
MEDIAN NOSE DETAIL

SCALE: VERT.
HORIZ.
DATE 3/8/2006

DRAWN BY
CHECKED BY

LOOP DETECTOR NOTES

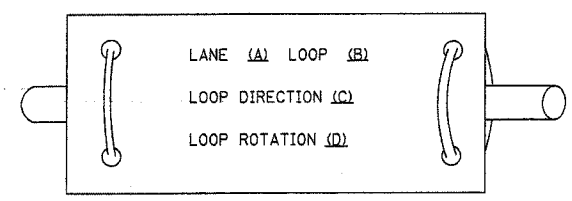
- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND 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.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



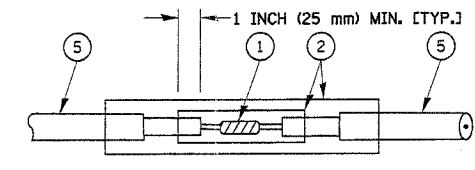
DETECTOR LOOP WIRING SCHEMATIC

- 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.

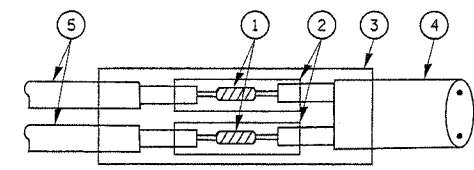
LOOP LEAD-IN CABLE TAG



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



**DETAIL "A"
LOOP-TO-LOOP SPLICE**



**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

LOOP DETECTOR SPLICE

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

REVISIONS	
NAME	DATE

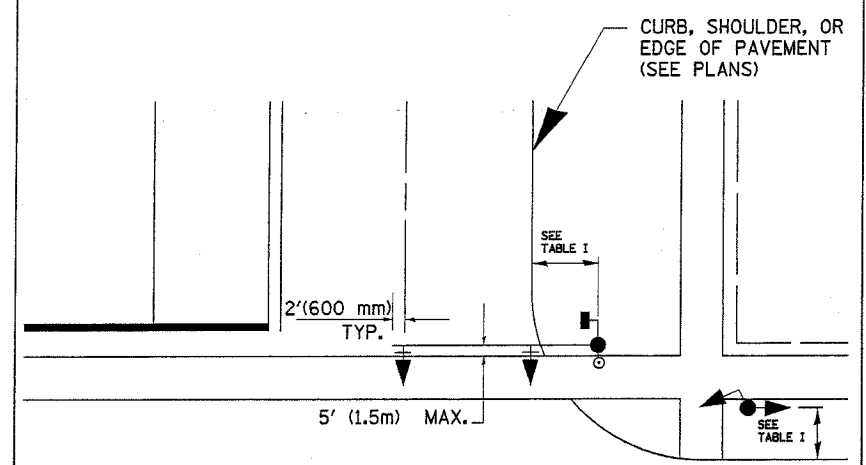
ILLINOIS DEPARTMENT OF TRANSPORTATION
**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS**

SCALE: VERT. NONE
 HORIZ. NONE
 DATE 1-01-02

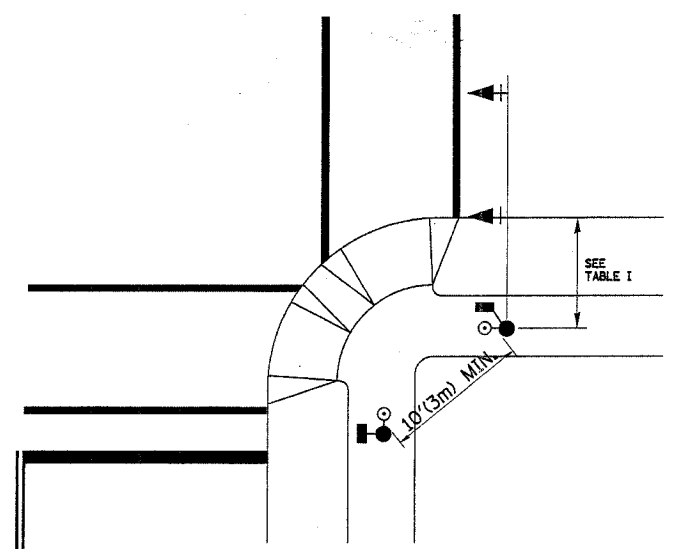
DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 1 OF 4

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 - A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 - B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 - C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 - D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 - E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

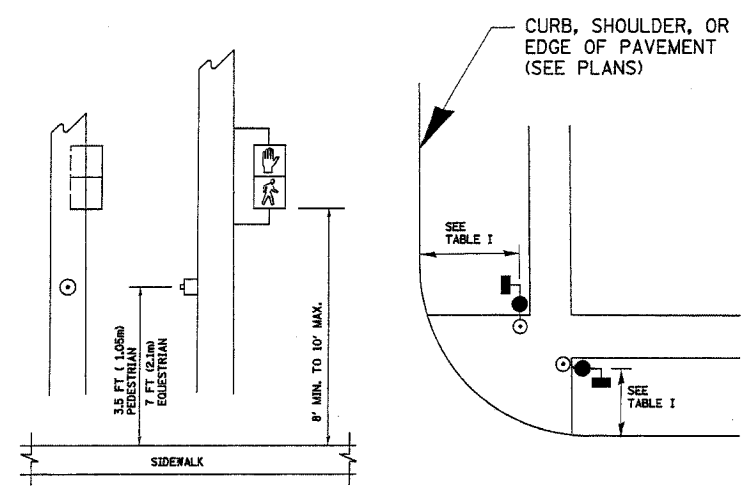


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE
HORIZ. NONE
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 2 OF 4

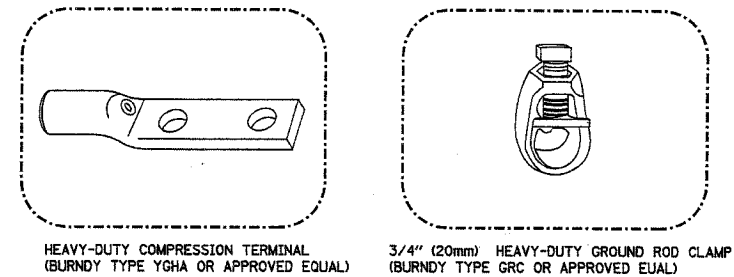
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101 TS-2	COOK	26	25
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES:

GROUNDING SYSTEM

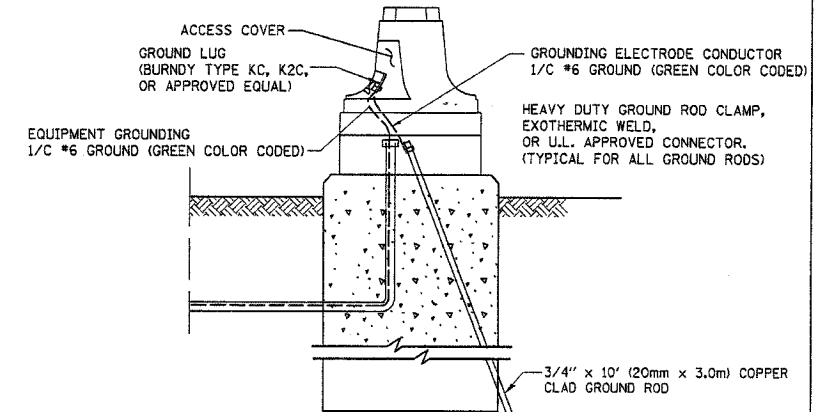
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE,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

CONTRACT NO. 60A64



NOTES:

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



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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS**

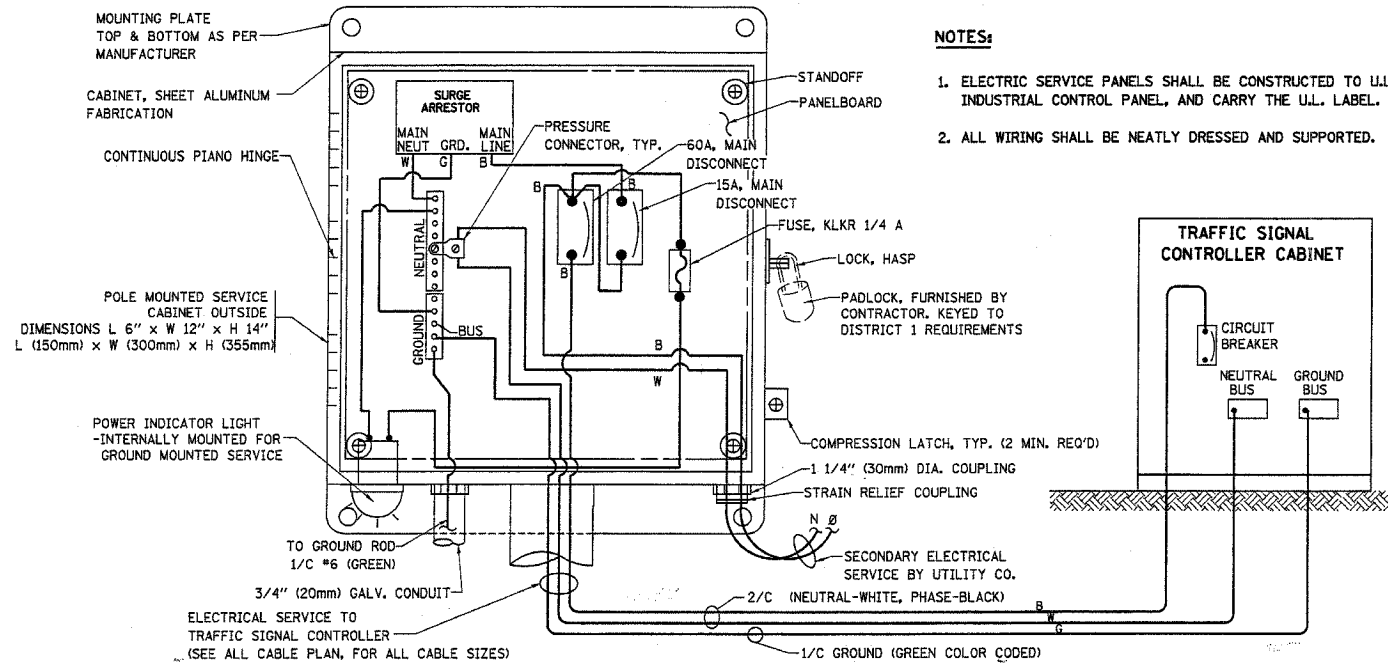
SCALE: VERT. NONE
HORIZ. 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 3 OF 4

TS05

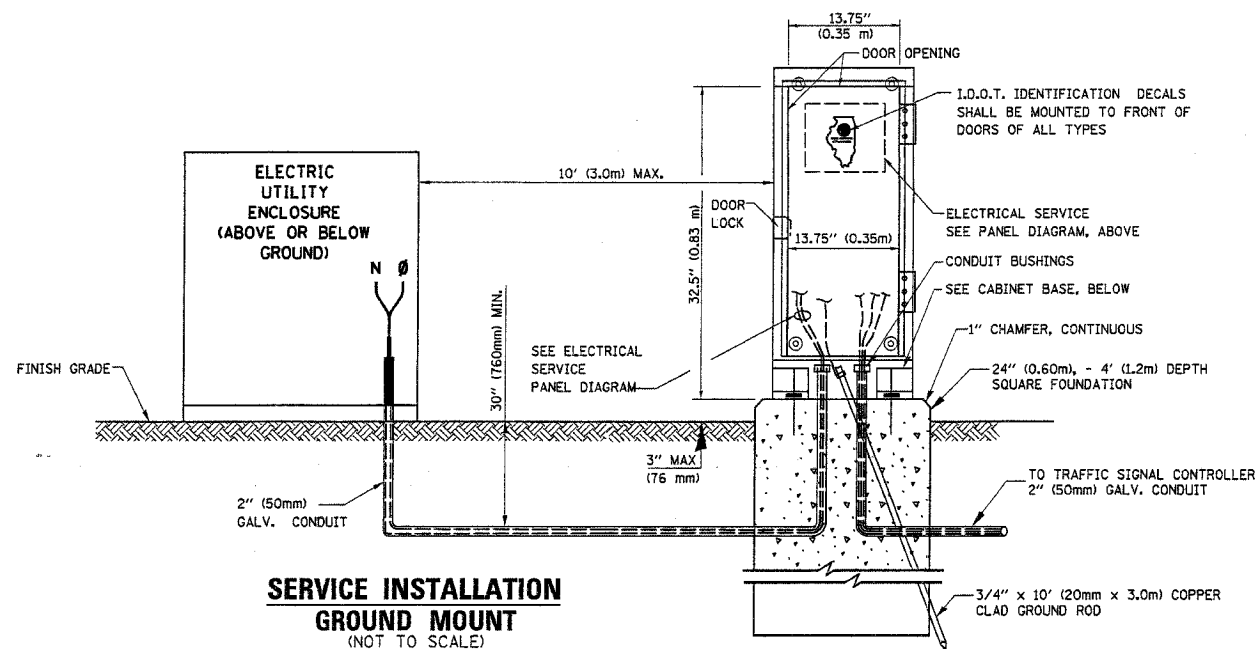
NOTES:

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

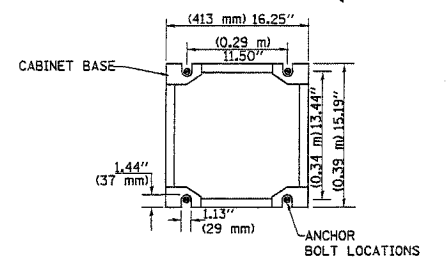


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

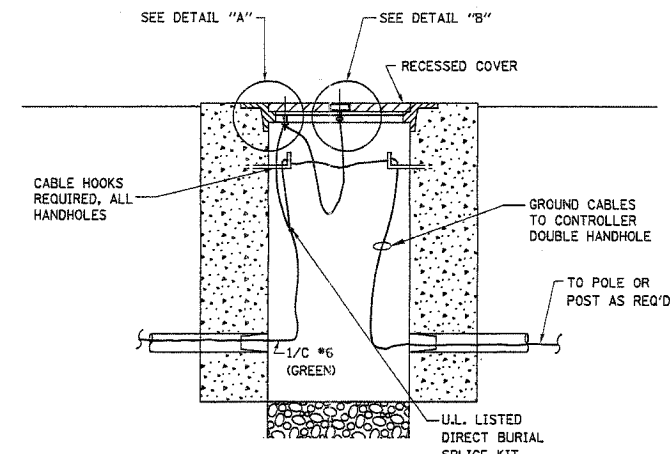
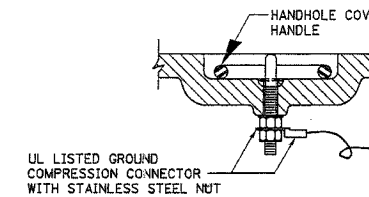
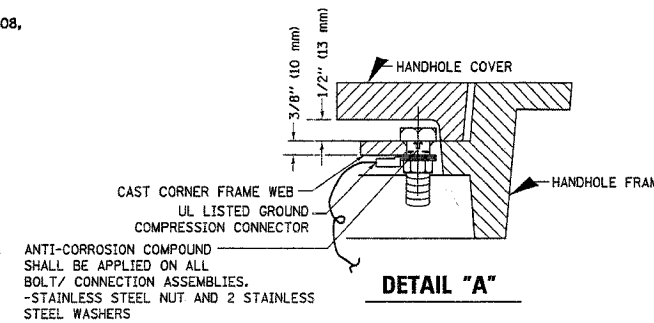
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)



SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)



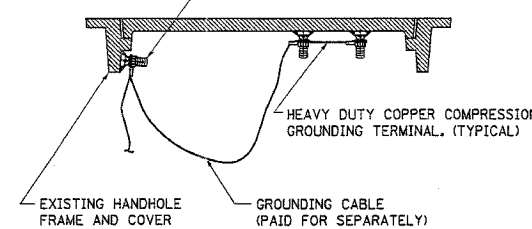
CABINET - BASE BOLT PATTERN
(NOT TO SCALE)



HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

(2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO FRAME AND TO COVER. (TYPICAL)



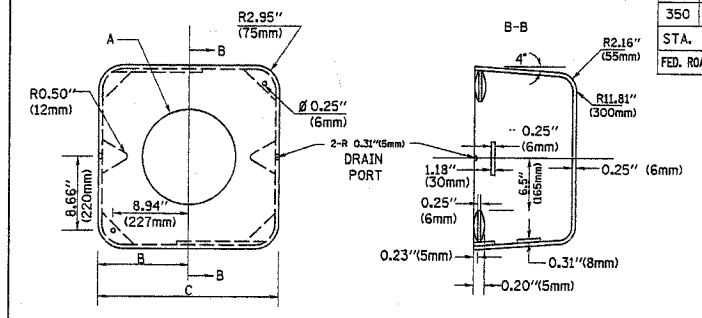
EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

DATE-TIME
DGN-SPEC

CONTRACT NO. 60A64

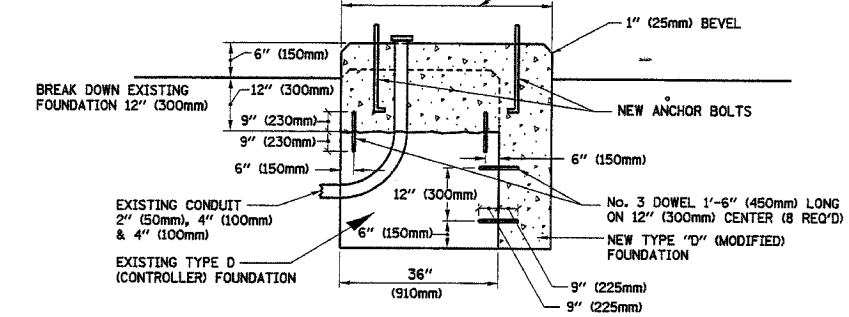
MATERIAL:
 - ASTM A48 CLASS 30 GREY IRON
 - ASTM A123 HOT DIPPED GALVANIZED



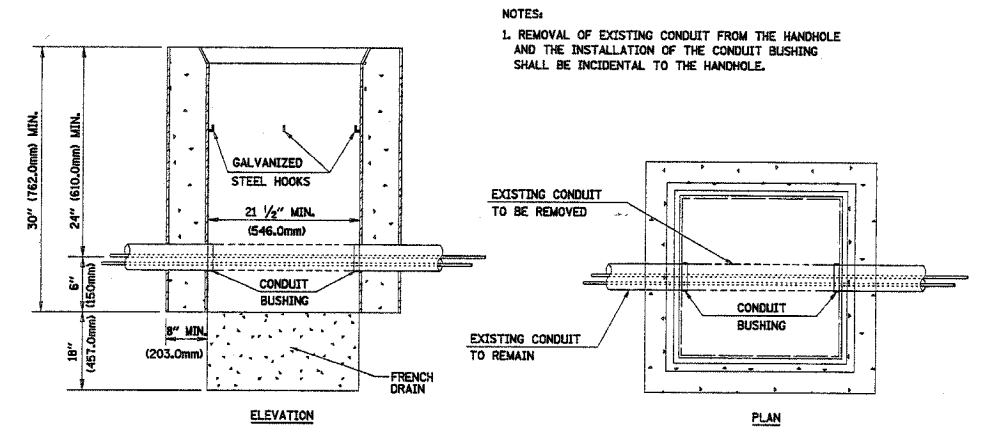
TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125" (257mm)	9.5" (241mm)	19" (483mm)	12" (300mm)	24kg
II	Ø 11.125" (283mm)	10.75" (273mm)	21.5" (546mm)	12" (300mm)	26kg

SHROUD DETAIL

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



MODIFY EXISTING TYPE "D" FOUNDATION
 (NOT TO SCALE)



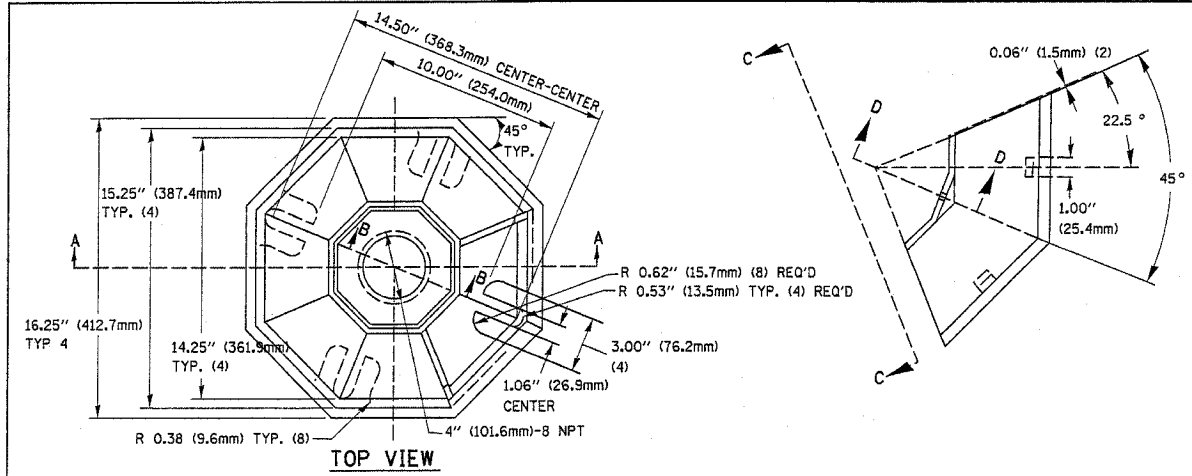
DETAIL
 HANDHOLE TO INTERCEPT EXISTING CONDUIT
 N.T.S.

REVISIONS	
NAME	DATE

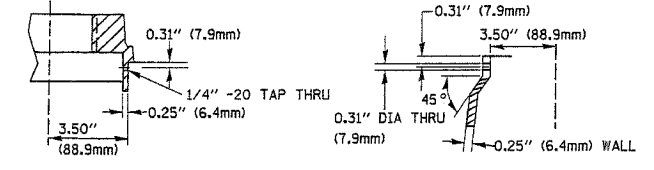
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

VERT. NONE
 HORIZ. NONE
 DATE 1-01-02
 DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 4 OF 4

TS05

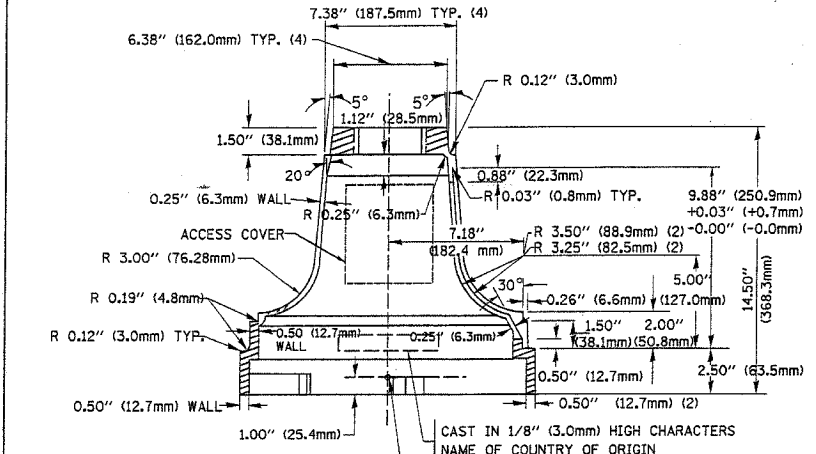


TOP VIEW

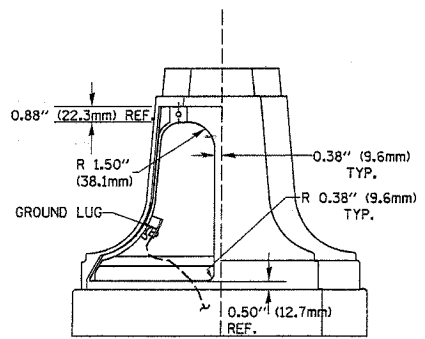


SECTION B-B

SECTION D-D



SECTION A-A



VIEW C-C

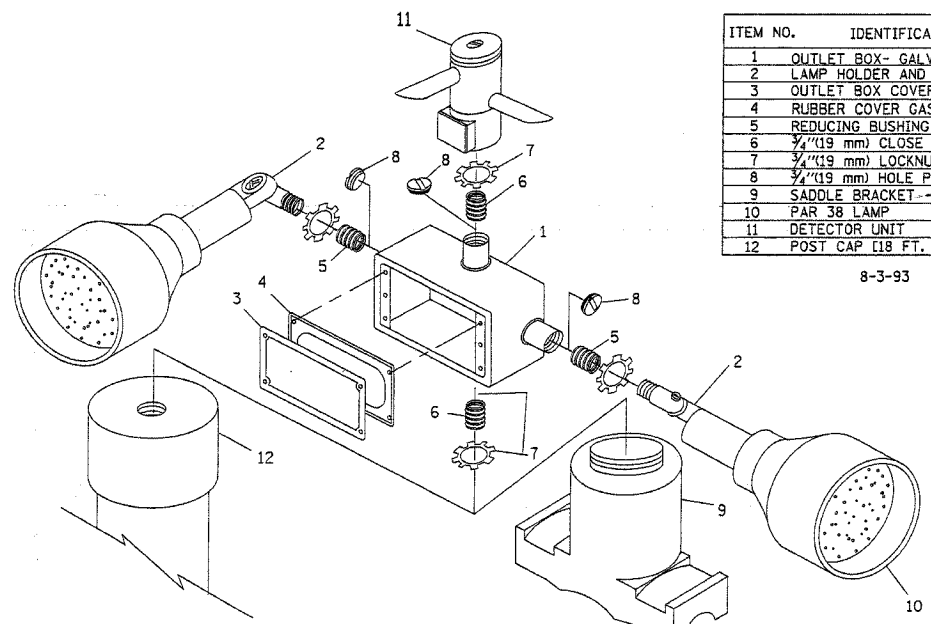
TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

NOTES:

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

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

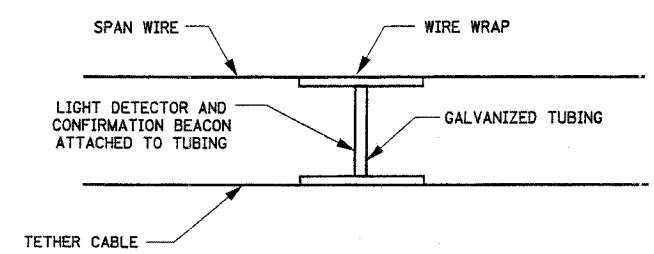
8-3-93



POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



LIGHT DETECTOR AND
 CONFIRMATION BEACON MOUNTING
 FOR TEMPORARY TRAFFIC SIGNALS

(NOT TO SCALE)

DATE-TIME
 DGN-SPEC