

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38RS-4	COOK	36	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 60814	
*F.A.P. 343 F.A.U. 1273				

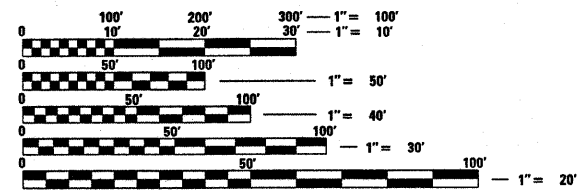
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

**F.A.P. 343 /F.A.U. 1273 (IL 68 /DUNDEE RD.)
EAST OF SKOKIE BLVD. TO FOREST WAY DR.
RESURFACING (MAINTENANCE)
AND TRAFFIC SIGNAL MODERNIZATION
SECTION: 38RS-4
COOK COUNTY
C-91-358-99**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE VILLAGES
OF NORTHBROOK AND GLENCOE



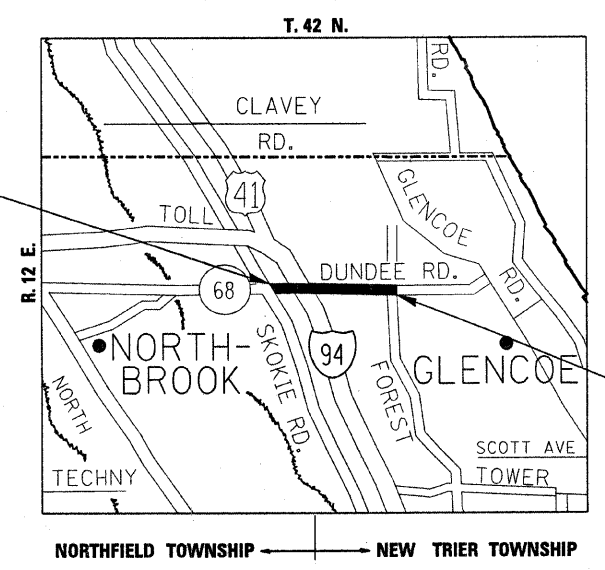
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: J. CHANG (847) 705-4432
PROJECT MANAGER: KEN ENG (847) 705-4247

CONTRACT NO. 60814

IMPROVEMENT BEGINS
STA. 316 + 00



TRAFFIC DATA:
ADT 2005 :
WEST OF SKOKIE LAGOON - 35,700
EAST OF SKOKIE LAGOON - 12,900
SPEED LIMIT - 30 TO 35 MPH

OMISSIONS:
I-94 (EDENS EXPY.):
STA. 323+12 TO STA. 326+32
SKOKIE LAGOON:
STA. 333+43 TO STA. 336+12

IMPROVEMENT ENDS
STA. 363 + 40

GROSS LENGTH OF IMPROVEMENT — 4740 LIN. FT. = 0.90 MI.
NET LENGTH OF IMPROVEMENT — 4151 LIN. FT. = 0.79 MI.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 25, 2007

Diane O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
December 7, 2007

Eric E. Haran
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT
December 7, 2007

Christina M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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30	DETECTOR LOOP LOCATION DETAILS
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35	MAST ARM MOUNTED STREET NAME SIGN PLAN
36	ARTERIAL ROAD INFORMATION SIGNING

STATE STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
420001-07	PAVEMENT JOINTS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
604056-02	FRAME AND GRATE, TYPE 11V
604086-01	FRAME AND GRATE, TYPE 23
606001-03	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
606301-03	PCC CONCRETE ISLANDS AND MEDIANS
606306-02	CORRUGATED PCC CONCRETE MEDIANS
630001-07	STEEL PLATE BEAM GUARDRAIL
630201-05	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-06	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
701301-02	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701426-02	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
701601-05	LANE CLOSURE, MULTILANE, 1-W OR 2-W, WITH NON TRANSVERSABLE MEDIAN
701606-05	URBAN LANE CLOSURE, MULTILANE 2-W WITH MOUNTABLE MEDIAN
701701-05	LANE CLOSURE, MULTILANE, INTERSECTION, FOR SPEEDS < 45 MPH
701801-03	LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE
701901	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS
814001-01	HANDHOLES
814006-01	DOUBLE HANDHOLES
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-01	TRAFFIC SIGNAL GROUNDING AND BONDING
876001	PEDESTRIAN PUSH BUTTON POST
877001-03	STEEL MAST ARM ASSEMBLY AND POLE
878001-06	CONCRETE FOUNDATION DETAILS
880001	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUT FOR DETECTION LOOPS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR "CUAN" (CHICAGO UTILITY ALERT NETWORK), 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

10 FEET (3 METERS) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS & GUTTERS 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 CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF NORTHBROOK AND GLENCOE.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR CORY JUCIUS AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO START OF WORK.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES IL. 68 (DUNDEE RD.)--EAST OF SKOKIE RD. TO FOREST WAY DR.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\projects\135899\135899.m32		DRAWN -	REVISED -			* 38RS-4	COOK	36	2	
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -			* F.A.P. 343/ F.A.U. 1273	CONTRACT NO. 60814			
	PLOT DATE = 10/31/2007	DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
					SCALE:	SHEET NO. OF SHEETS STA. TO STA.				

SUMMARY OF QUANTITIES			100% STATE CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	TRAFFIC SIGNALS			EMERGENCY PRE-EMPTION 100% VILLAGE
				I000-2A	Y031-1F	Y031-3D	
20200100	EARTH EXCAVATION	CU YD	10	10			
20201006	GRADING AND SHAPING SHOULDERS	UNIT	3	3			
21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	761		761		
25200110	SODDING, SALT TOLERANT	SQ YD	761		761		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	10	10			
40600300	AGGREGATE (PRIME COAT)	TON	46	46			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	7	7			
40600895	CONSTRUCTING TEST STRIP	EACH	2	2			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	323	323			
40600990	TEMPORARY RAMP	SQ YD	323	323			
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	484	484			
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1056	1056			
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1005	1005			
42001300	PROTECTIVE COAT	SQ YD	345	167	178		
44000100	PAVEMENT REMOVAL	SQ YD	761		761		
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	12566	12566			
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	10255	10255			
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	500	500			
44002224	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 6"	SQ YD	1438	1438			
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	156	156			
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	886	886			
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	328	328			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	9	9			
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	562	562			
52000320	NEOPRENE EXPANSION JOINT 2"	FOOT	190	190			
55039700	STORM SEWERS TO BE CLEANED	FOOT	1000	1000			
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	5	5			

SUMMARY OF QUANTITIES			100% STATE CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	TRAFFIC SIGNALS			EMERGENCY PRE-EMPTION 100% VILLAGE
				I000-2A	Y031-1F	Y031-3D	
60404940	FRAMES AND GRATES, TYPE 23	EACH	7	7			
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	912		912		
*63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	232	232			
*63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4			
*63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4			
63200310	GUARDRAIL REMOVAL	FOOT	120	120			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3			
67100100	MOBILIZATION	L SUM	1	1			
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	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			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2160	2160			
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	448	448			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8834	8834			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1540	1540			
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	713	713			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	235	235			
70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	448	448			
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	5285	5285			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5957	5957			
*72000100	SIGN PANEL - TYPE 1	SQ FT	36		36		
*72000200	SIGN PANEL - TYPE 2	SQ FT	30		30		
*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	448	448			
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8834	8834			

* SPECIALITY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
F.A.P. 343/ F.A.U. RTE. 1273
IL. 68 (DUNDEE RD.)
EAST OF SKOKIE RD. TO FOREST WAY DR.
PLOT DATE: 10/31/2007

10/31/2007

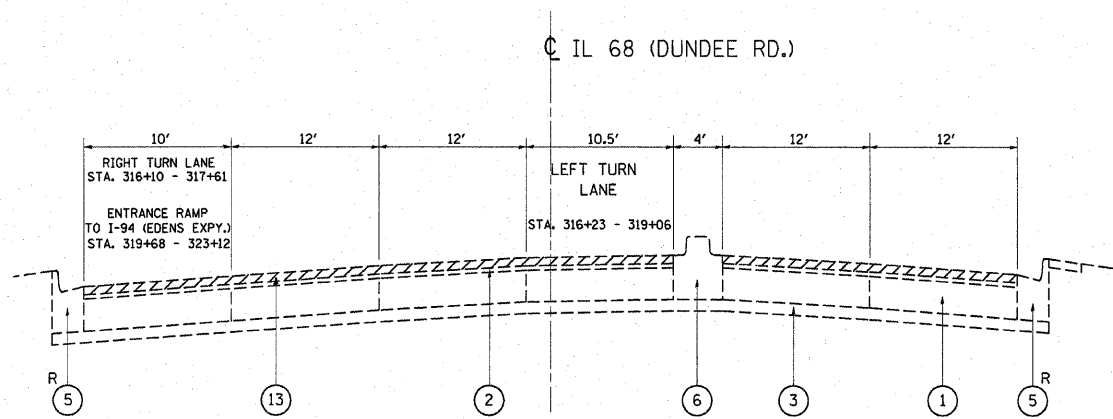
SUMMARY OF QUANTITIES				100% STATE				CONSTRUCTION TYPE CODE				SUMMARY OF QUANTITIES				100% STATE				CONSTRUCTION TYPE CODE								
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000-2A	TRAFFIC SIGNALS Y031-1F	EMERGENCY PRE-EMPTION 100% VILLAGE Y031-3D					CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000-2A	TRAFFIC SIGNALS Y031-1F	EMERGENCY PRE-EMPTION 100% VILLAGE Y031-3D											
*78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1540	1540							*87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	92		92												
*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	713	713							*87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2												
*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	235	235							*87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2		2												
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	324	324							*87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1		1												
*78200405	GUARDRAIL MARKERS	EACH	4	4							*87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1		1												
*78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4							*87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8		8												
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	292	292							*87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4												
*81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	87		87						*87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	47		47												
*81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	64		64						*88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6		6												
*81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	15		15						*88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2												
*81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	40		40						*88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2												
*81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	66		66						*88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2												
*81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	210		210						*88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2		2												
*81400100	HANDHOLE	EACH	3		3						*88102740	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	3		3												
*81400200	HEAVY-DUTY HANDHOLE	EACH	4		4						*88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8		8												
*81400300	DOUBLE HANDHOLE	EACH	1		1						*88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8												
*81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	362		362						*88600100	DETECTOR LOOP, TYPE I	FOOT	949		949												
*85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1						*88600600	DETECTOR LOOP REPLACEMENT	FOOT	144	144													
*87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	560		560						*88700200	LIGHT DETECTOR	EACH	2			2											
*87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1397		1397						*88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1											
*87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1262		1262						*88800100	PEDESTRIAN PUSH-BUTTON	EACH	5			5											
*87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	626		626						89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1			1											
*87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	904		904						89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1											
											89502380	REMOVE EXISTING HANDHOLE	EACH	5			5											

* SPECIALITY ITEMS

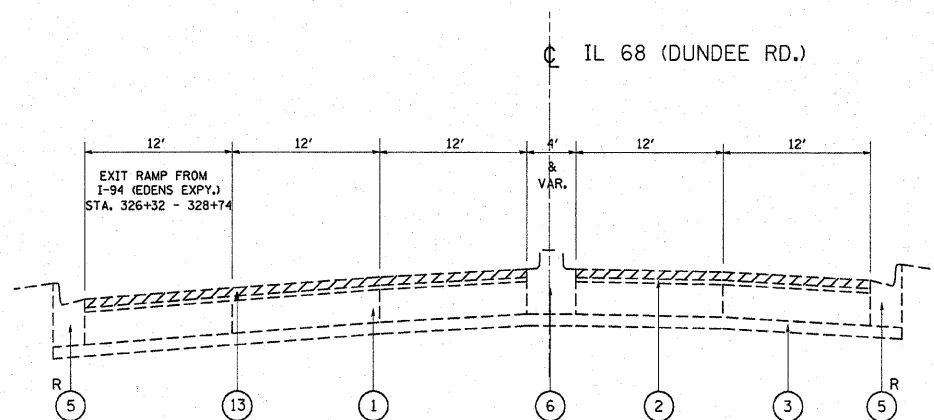
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
F.A.P. 343/ F.A.U. RTE. 1273
IL. 68 (DUNDEE RD.)
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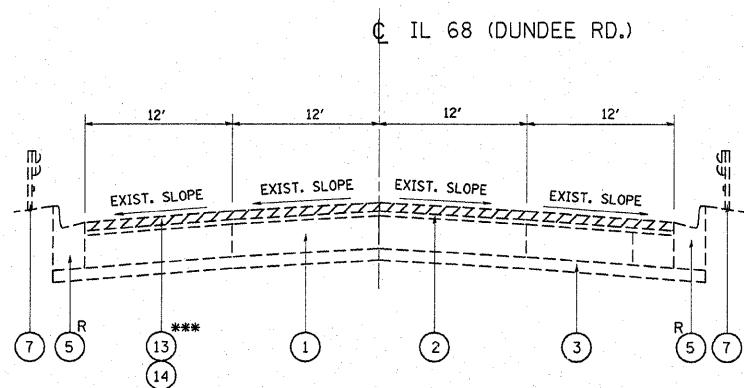
10/31/2007



EXISTING TYPICAL CROSS SECTION
STA. 316+00 TO STA. 323+12

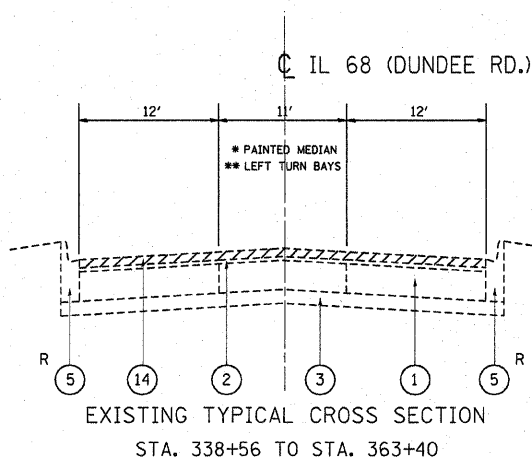


EXISTING TYPICAL CROSS SECTION
STA. 326+32 TO STA. 331+58

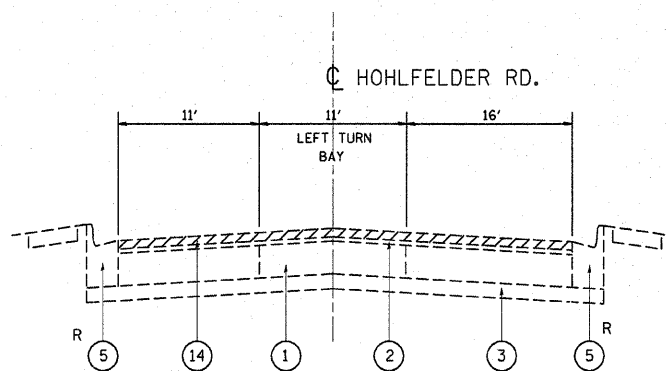


EXISTING TYPICAL CROSS SECTION
STA. 331+58 TO STA. 338+56

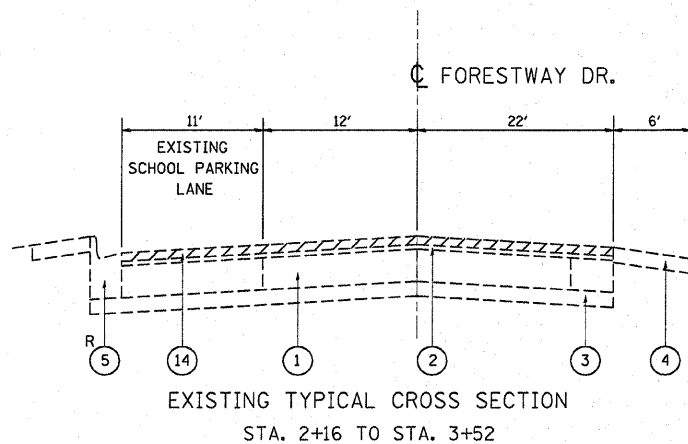
NOTE:
*** THERE IS HMA SURFACE REMOVAL, 2 1/2" FROM STA. 331+58 TO STA. 333+43
OMISSION FOR HMA RESURFACING FROM STA. 333+43 TO 336+12 (BRIDGE OVER SKOKIE LAGOON)
THERE IS HMA SURFACE REMOVAL, 2 1/4" FROM STA. 336+12 TO STA. 338+56



LEGEND:
* STA. 338+55 TO STA. 340+80
STA. 342+00 TO STA. 347+37
STA. 349+21 TO STA. 351+16
STA. 352+60 TO STA. 355+64
STA. 357+65 TO STA. 359+18
STA. 362+06 TO STA. 363+40
** STA. 339+88 TO STA. 341+57
STA. 345+99 TO STA. 347+55
STA. 349+80 TO STA. 352+08
STA. 354+39 TO STA. 356+99
STA. 357+65 TO STA. 360+19



EXISTING TYPICAL CROSS SECTION
STA. 3+88 TO STA. 5+20



EXISTING TYPICAL CROSS SECTION
STA. 2+16 TO STA. 3+52

LEGEND:

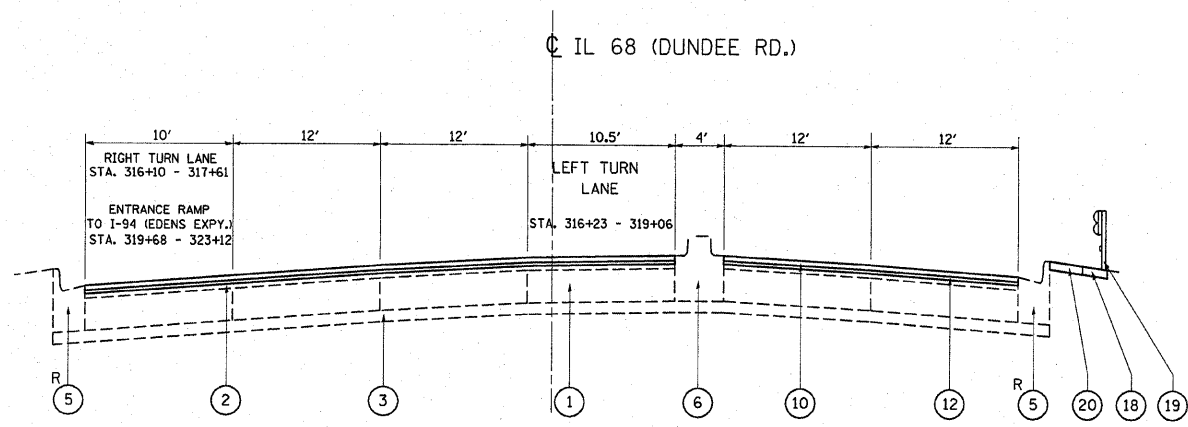
- ① EXIST. P.C.C. PAVEMENT, 10"
- ② EXIST. HOT-MIX ASPHALT SURFACE, 3"
- ③ EXIST. STABILIZED SUB-BASE, 4"
- ④ EXIST. AGGREGATE SHOULDER, 6"
- ⑤ EXIST. CURB AND GUTTER, TYPE B-6.12
- ⑥ EXIST. CONCRETE BARRIER MEDIAN
- ⑦ EXIST. GUARDRAIL
- ⑧ PROP. CURB AND GUTTER, TYPE B-6.12
- ⑨ PROP. LANDSCAPE MEDIAN
- ⑩ PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4"
- ⑪ PROP. HOT-MIX ASPHALT SURFACE COURSE, SUPERPAVE, MIX "D", N70, 1 1/2"
- ⑫ PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 3/4"
- ⑬ PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑭ PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- ⑮ PROP. DRILL AND GROUT #6 TIE BARS
- ⑯ PROP. GRADING AND SHAPING SHOULDERS
- ⑰ PROP. AGGREGATE SHOULDERS, TYPE B
- ⑱ PROP. HOT-MIX ASPHALT SHOULDERS, 6"
- ⑲ PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑳ PROP. P.C.C. SIDEWALK
- R CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATION AS DIRECTED BY ENGINEER)

FILE NAME = c:\projects\dl35899\dl35899a.m32	USER NAME = steedpa	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

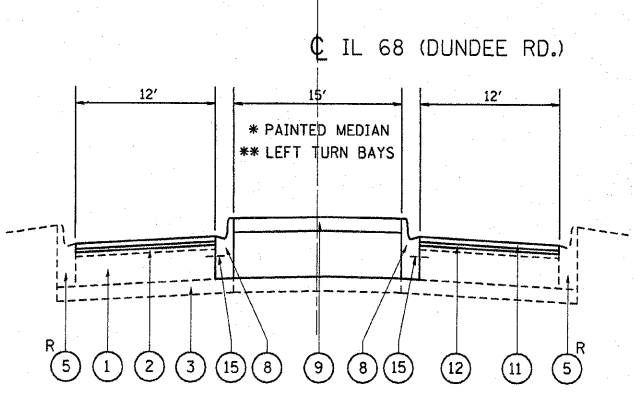
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL SECTIONS
IL. 68 (DUNDEE RD.)--EAST OF SKOKIE RD. TO FOREST WAY DR.
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38RS-4	COOK	36	6
* F.A.P. 343/ F.A.U. 1273		CONTRACT NO. 60814		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

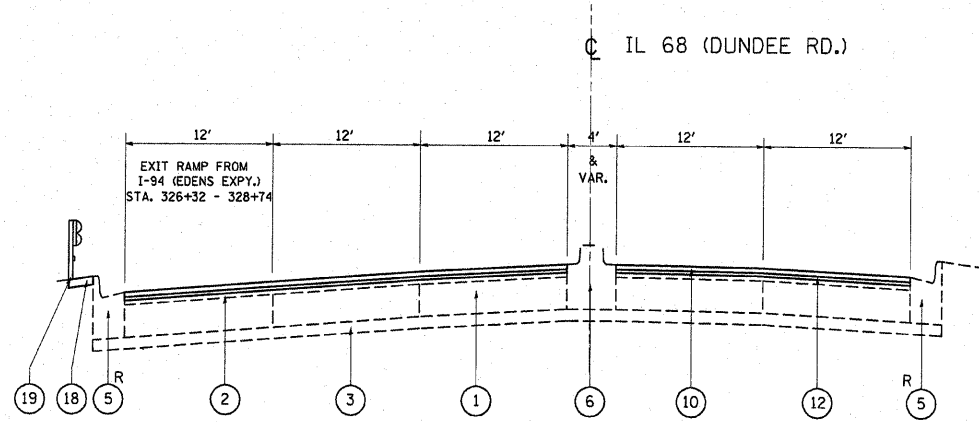


PROPOSED TYPICAL CROSS SECTION
STA. 316+00 TO STA. 323+12

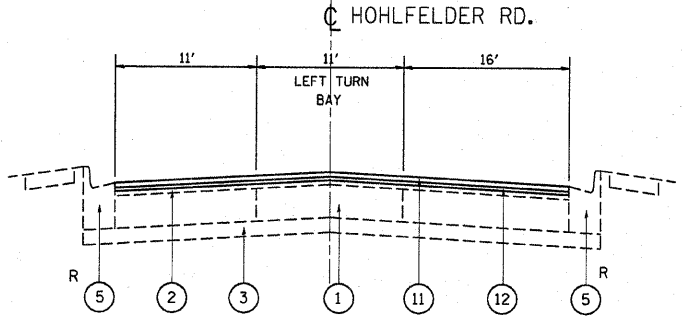


PROPOSED TYPICAL CROSS SECTION
STA. 338+56 TO STA. 363+40

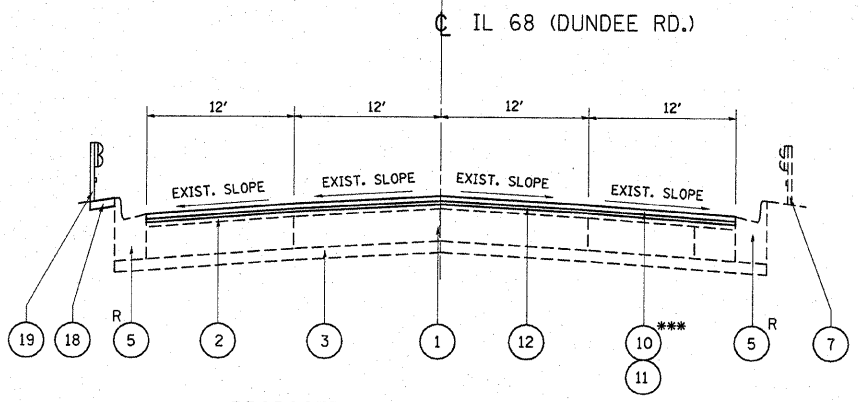
LEGEND:
* STA. 338+56 TO STA. 340+80
STA. 345+99 TO STA. 346+37
STA. 349+21 TO STA. 351+16
STA. 354+39 TO STA. 355+64
STA. 357+65 TO STA. 359+18
STA. 362+06 TO STA. 363+40
** STA. 339+88 TO STA. 341+57
STA. 345+99 TO STA. 347+55
STA. 349+80 TO STA. 352+08
STA. 354+39 TO STA. 356+99
STA. 357+65 TO STA. 360+19
STA. 361+19 TO STA. 362+06



PROPOSED TYPICAL CROSS SECTION
STA. 326+32 TO STA. 331+58

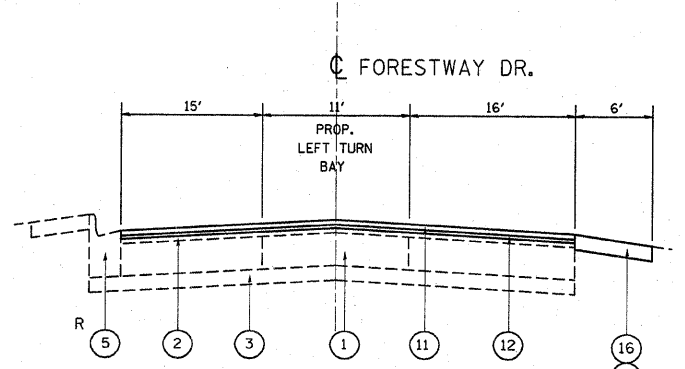


PROPOSED TYPICAL CROSS SECTION
STA. 3+88 TO STA. 5+20



PROPOSED TYPICAL CROSS SECTION
STA. 331+58 TO STA. 338+56

NOTE:
*** PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4" IS TO BE PLACED FROM STA. 331+58 TO STA. 333+43
OMISSION FOR HMA RESURFACING FROM STA. 333+43 TO 336+12 (BRIDGE OVER SKOKIE LAGOON)
PROP. HMA SURFACE COURSE, MIX "D", N70, 1 1/2" IS TO BE PLACED FROM STA. 336+12 TO STA. 338+56



PROPOSED TYPICAL CROSS SECTION
STA. 2+16 TO STA. 3+52

LEGEND:

- 1 EXIST. P.C.C. PAVEMENT, 10"
- 2 EXIST. HOT-MIX ASPHALT SURFACE, 3"
- 3 EXIST. STABILIZED SUB-BASE, 4"
- 4 EXIST. AGGREGATE SHOULDER, 6"
- 5 EXIST. CURB AND GUTTER, TYPE B-6.12
- 6 EXIST. CONCRETE BARRIER MEDIAN
- 7 EXIST. GUARDRAIL
- 8 PROP. CURB AND GUTTER, TYPE B-6.12
- 9 PROP. LANDSCAPE MEDIAN
- 10 PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SUPERPAVE, MIX "F", N90, 1 3/4"
- 11 PROP. HOT-MIX ASPHALT SURFACE COURSE, SUPERPAVE, MIX "D", N70, 1 1/2"
- 12 PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 3/4"
- 13 PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- 14 PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- 15 PROP. DRILL AND GROUT #6 TIE BARS
- 16 PROP. GRADING AND SHAPING SHOULDERS
- 17 PROP. AGGREGATE SHOULDERS, TYPE B
- 18 PROP. HOT-MIX ASPHALT SHOULDERS, 6"
- 19 PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A
- 20 PROP. P.C.C. SIDEWALK
- R CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATION AS DIRECTED BY ENGINEER)

MIXTURE REQUIREMENTS

MIXTURE USE	AC/PG	RAP % (MAX)	DESIGN AIR VOIDS
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, IL-19MM *	PG 64-22/PG 58-22	15	4% @ 70
CLASS "D" PATCHES, 10" HMA BINDER COURSE, IL-19 *	PG 64-22/PG 58-22	15/25	4% @ 70
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, IL 9.5	PG 64-22	10/15	4% @ 70
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	SBS/SBR PG 70-22	10	4% @ 90
HOT-MIX ASPHALT SHOULDERS, 6"	PG 64-22/PG 58-22	50	2% @ 30
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28/PG 76-22	15	4% @ 50

NOTE:
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT QUANTITIES IS 112 LBS./SQ. YD./ IN.

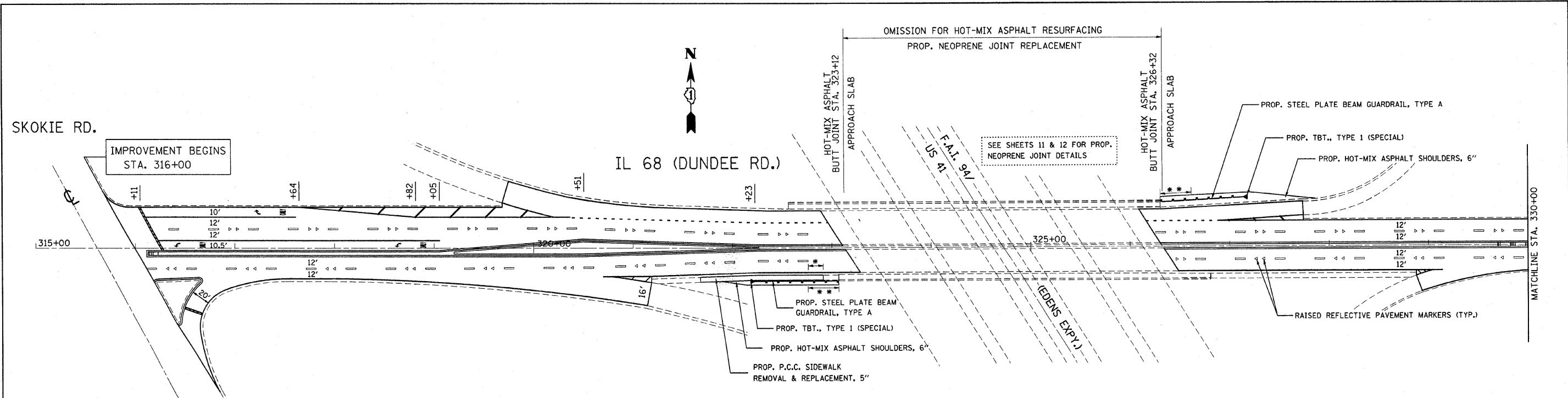
* WHEN RAP EXCEEDS 20% THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

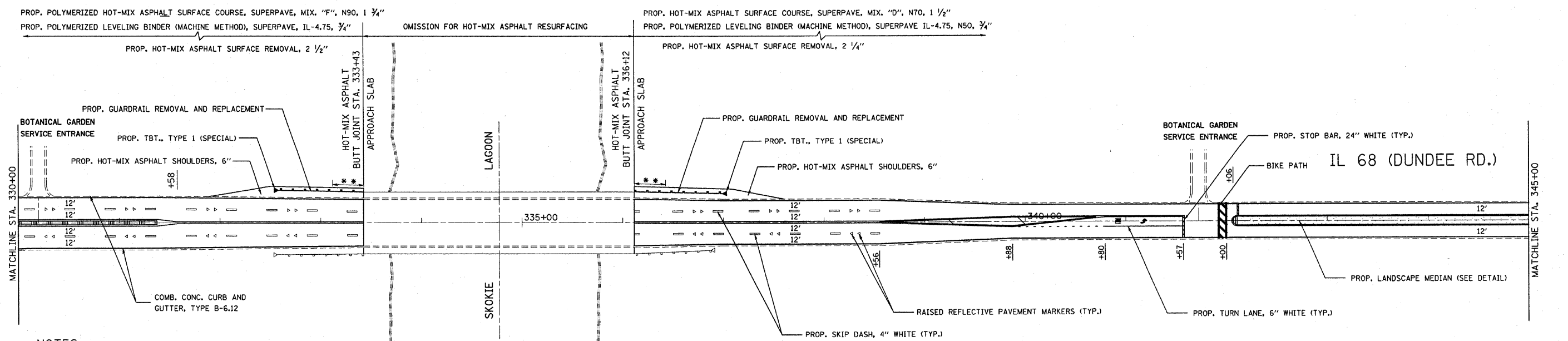
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
IL. 68 (DUNDEE RD.)--EAST OF SKOKIE RD. TO FOREST WAY DR.
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38RS-4	COOK	36	7
* F.A.P. 343/ F.A.U. 1273		CONTRACT NO. 60814		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- LEGEND:**
- TBT - TRAFFIC BARRIER TERMINAL
 - * - PROP. 15' CURB & SIDEWALK TRANSITION
 - ** - PROP. TRAFFIC BARRIER TERMINAL, TYPE 6 (TANGENT)



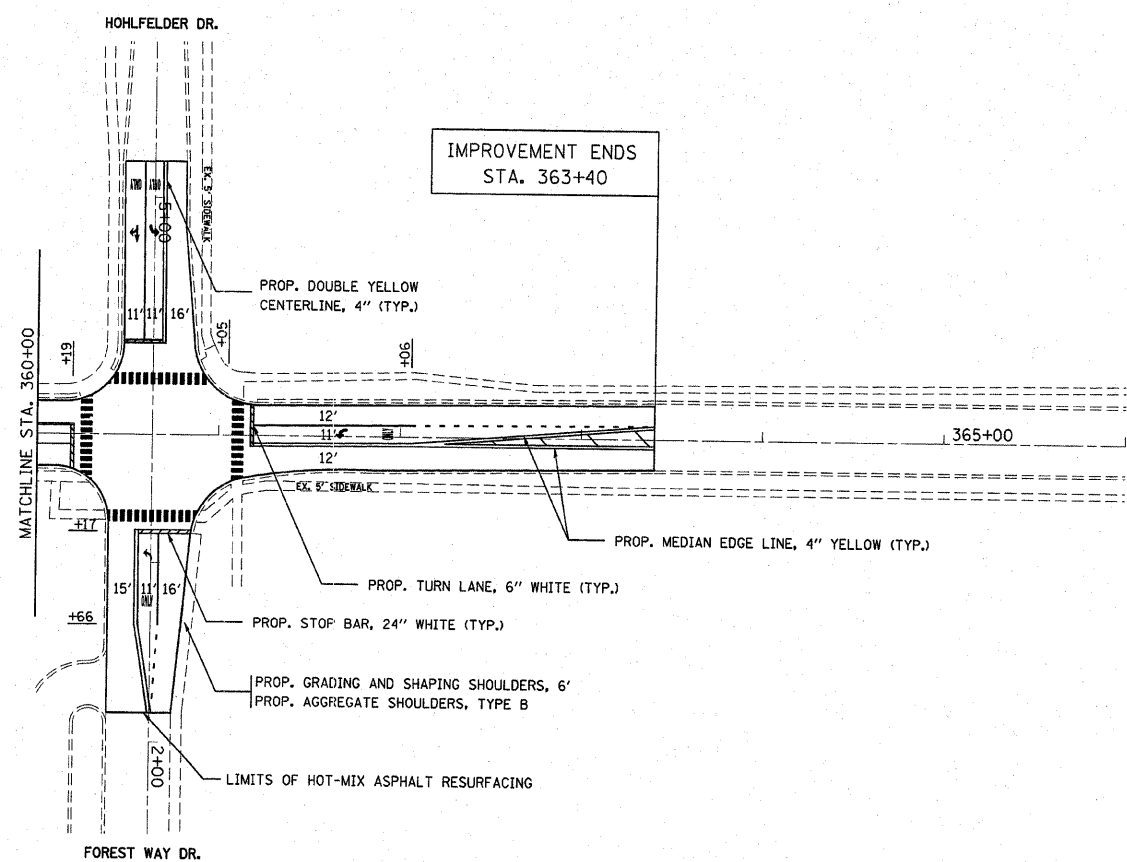
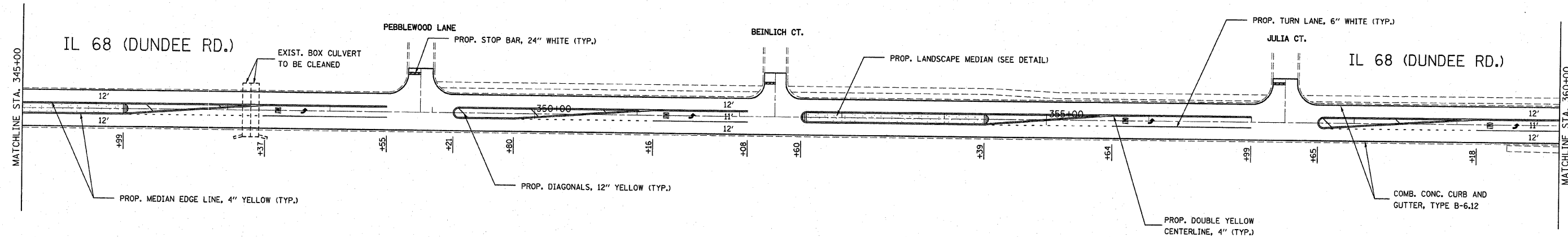
NOTES:

FOR GORE MARKINGS SEE "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS".
FOR PAVEMENT MARKERS AND RAISED REFLECTIVE PAVEMENT MARKERS, SEE DISTRICT STANDARDS.

THE RESIDENT ENGINEER SHALL CONTACT MARK WILFERT, AREA TRAFFIC ENGINEER AT (773) 685-8386 TWO WEEKS PRIOR TO THE INSTALLATION OF PERMANENT PAVEMENT MARKINGS.

FOR DETAIL OF STEEL PLATE BEAM GUARD RAIL ADJACENT TO THE CURB AND GUTTER AND SHOULDER WIDENING FOR TBT TY.-1 SPL., SEE DISTRICT STANDARD.

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	PLDT SCALE = 50,00000' / IN.	DRAWN -	REVISD -		IL. 68 (DUNDEE RD.)--EAST OF SKOKIE RD. TO FOREST WAY DR.		*	38RS-4	COOK	36	8
	PLDT DATE = 10/31/2007	CHECKED -	REVISD -		SCALE: SHEET NO. OF SHEETS STA. 316+00 TO STA. 345+00		* F.A.P. 343/ F.A.U. 1273		CONTRACT NO. 60814		
		DATE -	REVISD -				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



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	PLOT DATE = 10/10/2007	DATE -	REVISED -

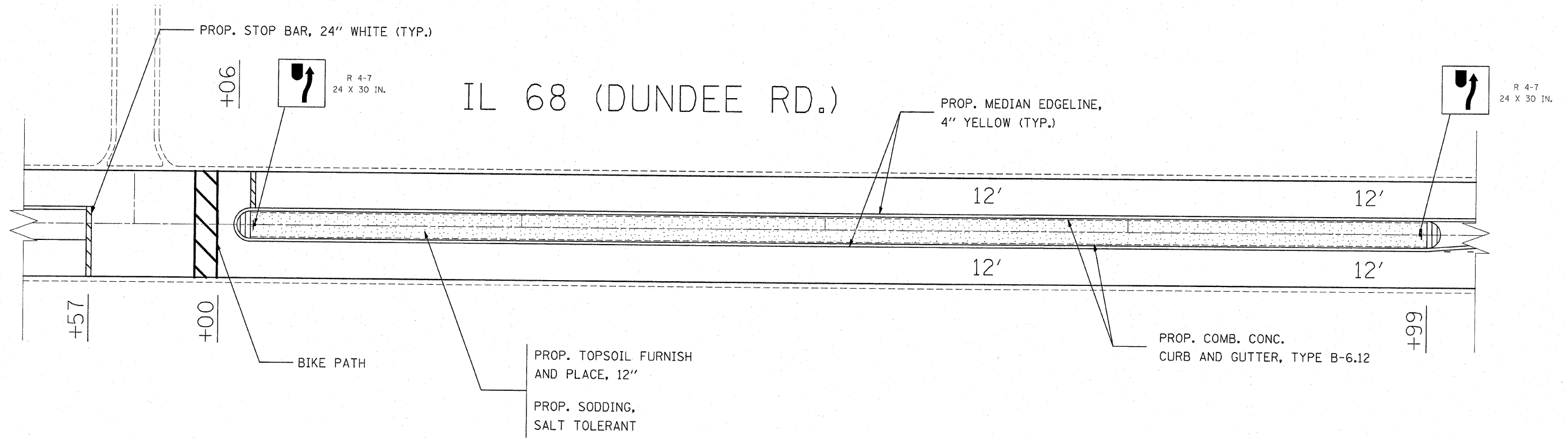
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY AND PAVEMENT MARKING PLANS
IL. 68 (DUNDEE RD.)--EAST OF SKOKIE RD. TO FOREST WAY DR.

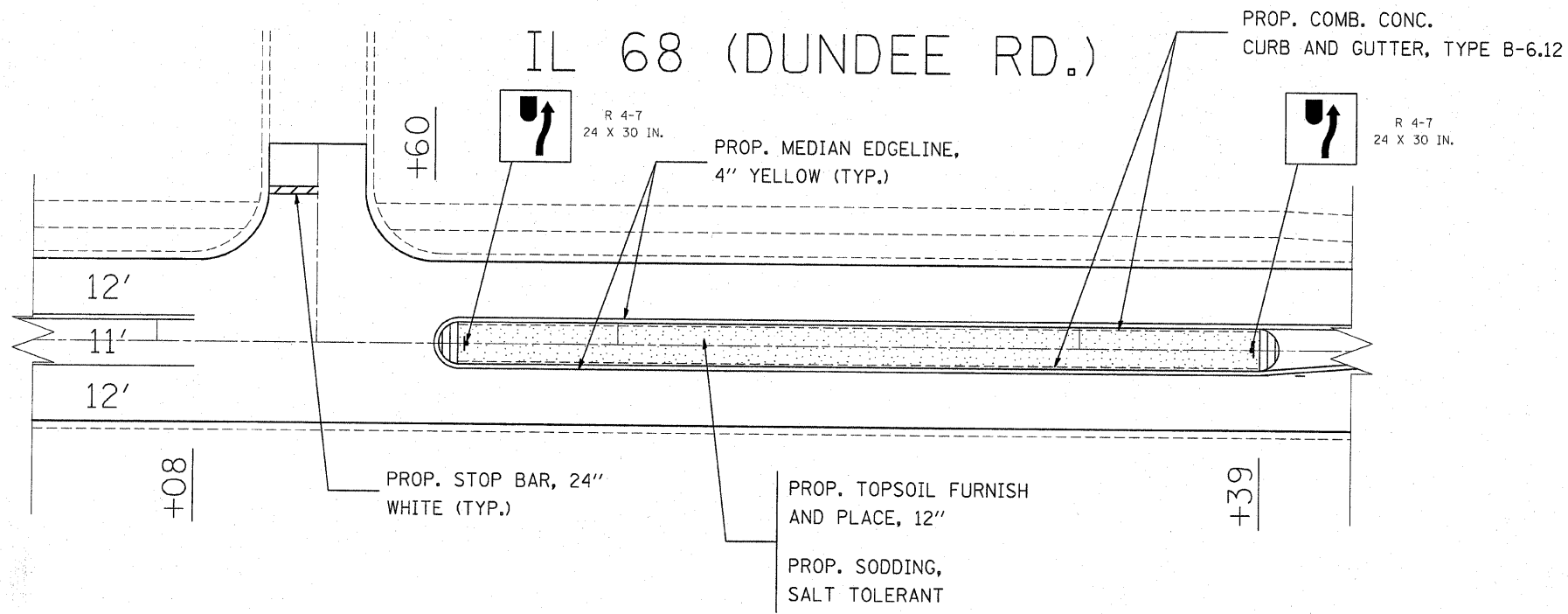
SCALE: SHEET NO. OF SHEETS STA. 345+00 TO STA. 363+40

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38RS-4	COOK	36	9
* F.A.P. 343/ F.A.U. 1273			CONTRACT NO. 60814	
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

BOTANICAL GARDEN
SERVICE ENTRANCE

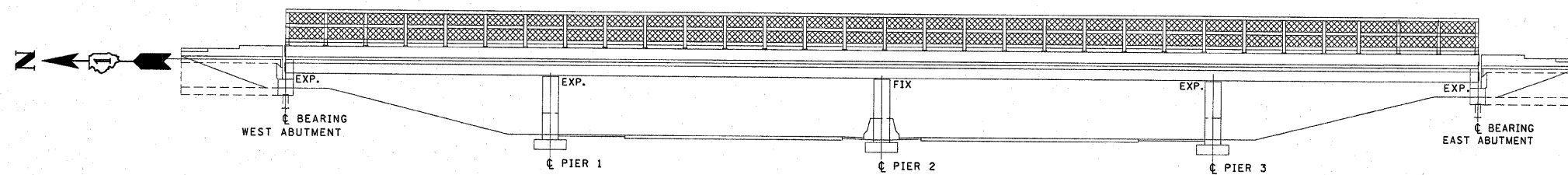


BEINLICH CT.



FILE NAME = c:\projects\135899\135899a.m32	USER NAME = steedpo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LANDSCAPE MEDIAN DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,0000' / IN.	DRAWN -	REVISED -		IL. 68 (DUNDEE RD.)--EAST OF SKOKIE RD. TO FOREST WAY DR.			*	38RS-4	COOK	36	10
	PLOT DATE = 10/10/2007	CHECKED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60814	
		DATE -	REVISED -								ILLINOIS FED. AID PROJECT	

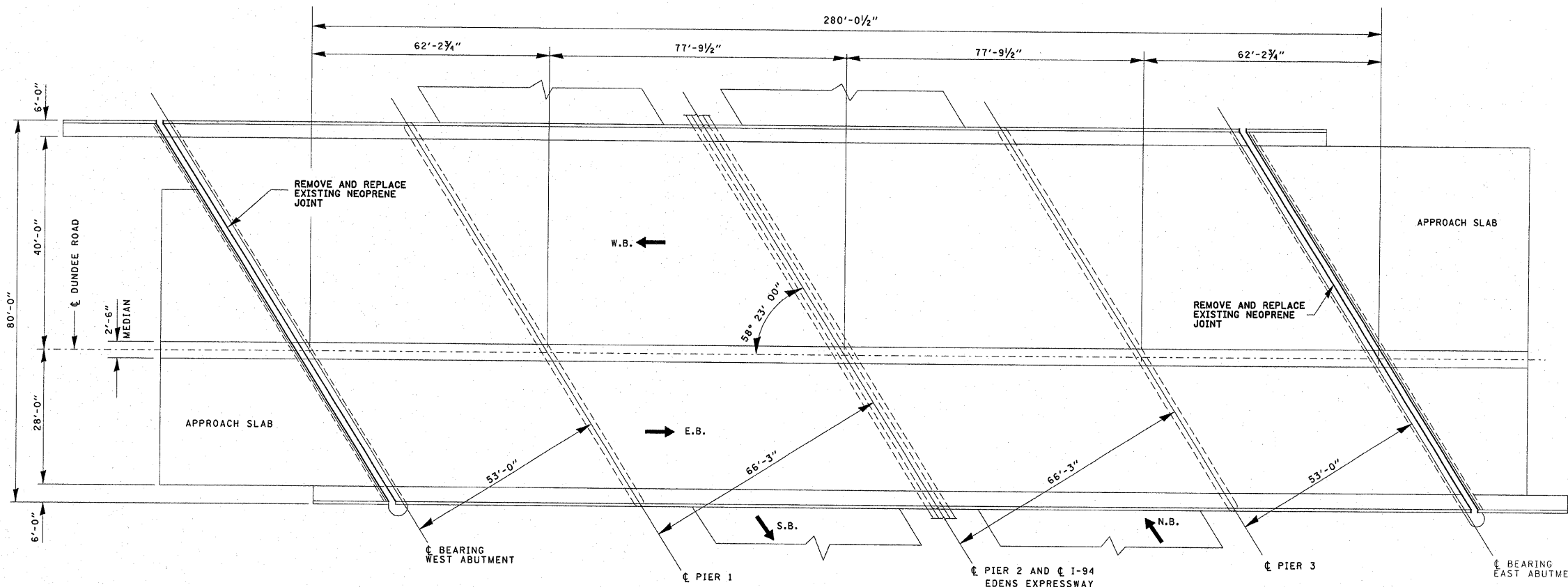
F. & H. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
* F.A.P. 343		CONTRACT NO. 60814		
F.A.U. 1273				



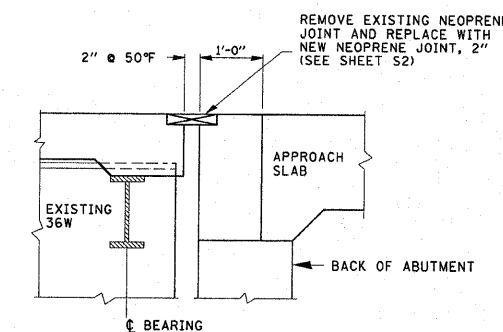
ELEVATION

NOTES

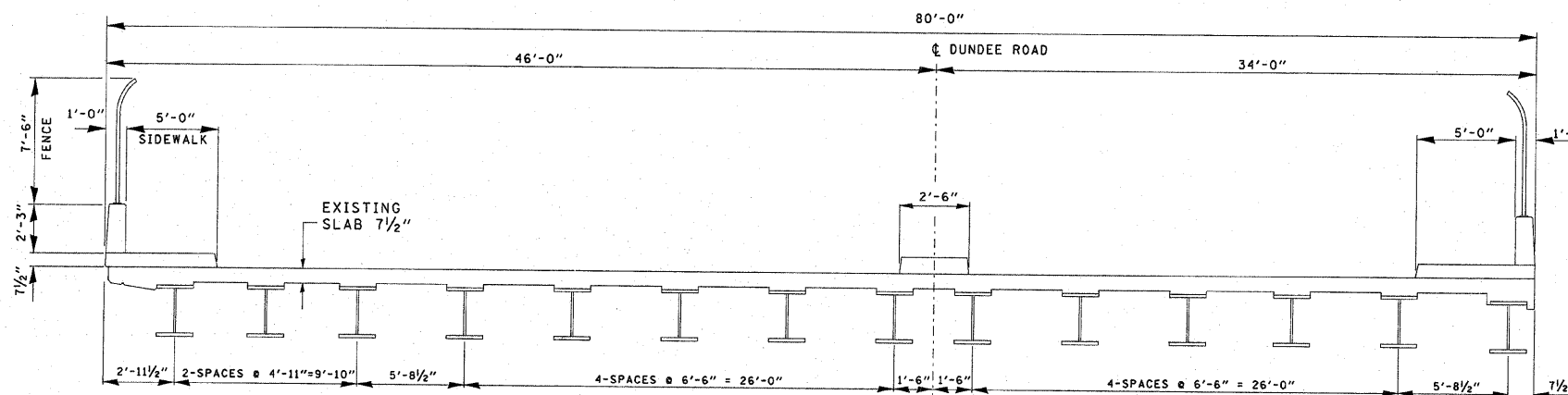
PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSION AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT BID PRICE OR THE WORK.



PLAN



EXISTING TRANSVERSE JOINT AT EAST AND WEST ABUTMENT



CROSS SECTION

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
NEOPRENE EXPANSION JOINT, 2"	FOOT	190

REVISIONS		
NAME	DATE	
TMS	5/2000	

ILLINOIS DEPARTMENT OF TRANSPORTATION
DUNDEE ROAD OVER I-94 (EDENS EXPRESSWAY) EXPANSION JOINT REPAIR SN 016-0939
 SCALE: NONE
 DATE: APRIL 2000
 DRAWN BY MVT
 CHECKED BY TMS

10/10/2007 c:\p\ro\lect\rs\cd135899d3599aam32

F.A.U. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	12
STA. TO STA.				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
* F.A.P. 343			CONTRACT NO. 60814	
F.A.U. 1273				

Joint Size	"C" at 50°F	"D" at 50°F
2"	2"	1 1/2" Min.
2 1/2"	2 1/2"	1 3/4" Min.
4"	3"	2 1/2" Min.

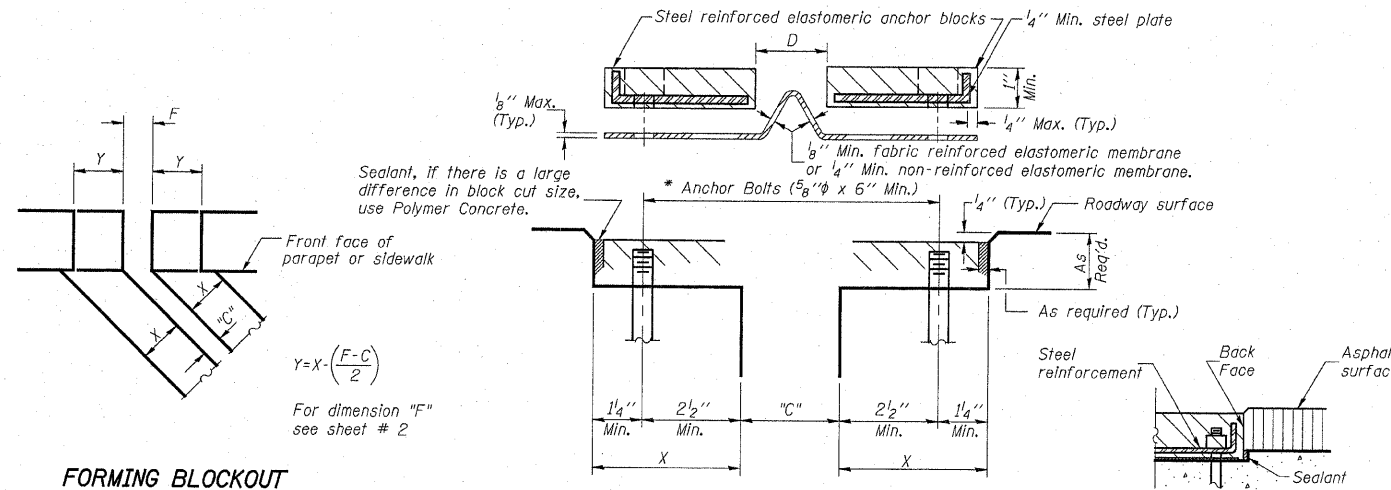
INSTALLATION NOTES

- Install continuous seal in roadway, parapet, curb, and sidewalk.
- Install anchor blocks as indicated.

NOTE A: Maximum spacing of anchor bolts shall be 12" centers.

SKREW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed according to dimension "D", might require modifications to insure a minimum clearance of 1/2" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±12" cts.



GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane.

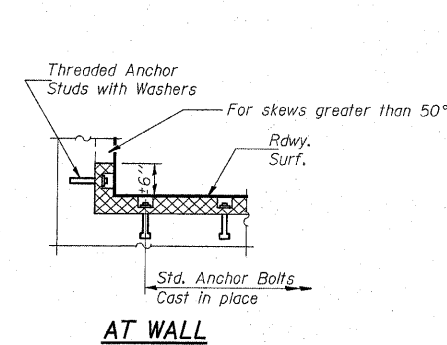
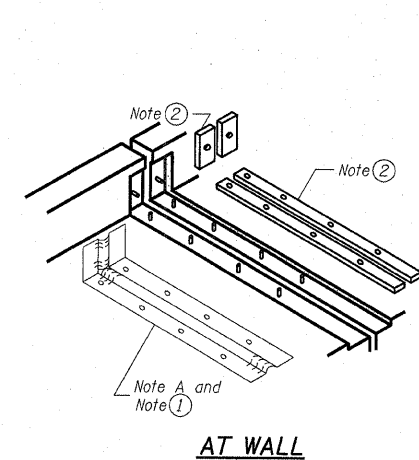
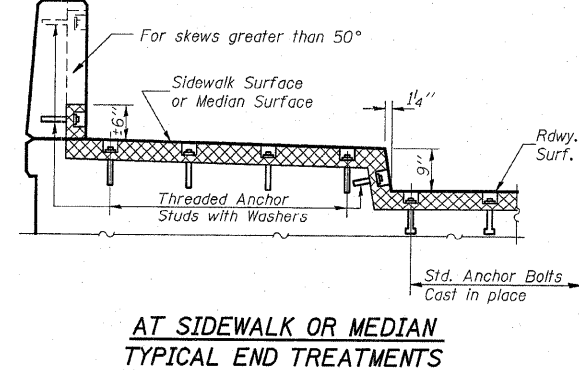
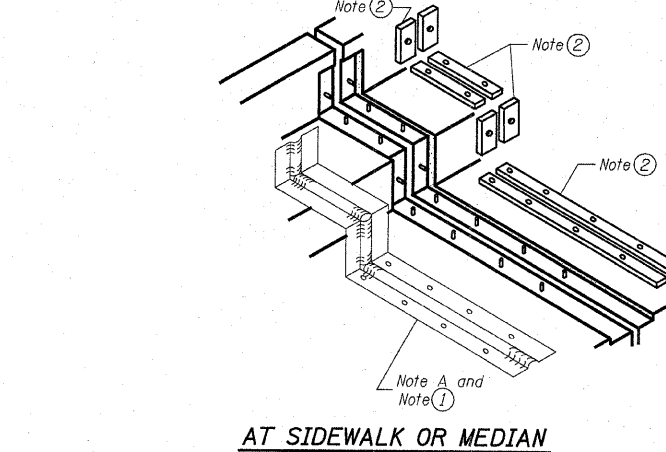
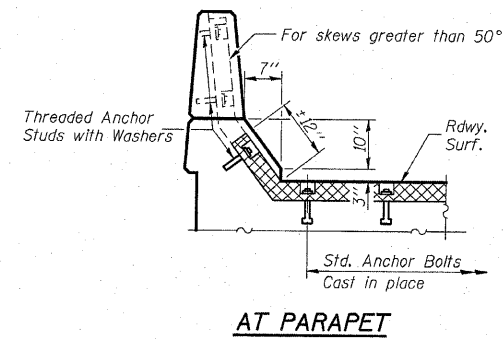
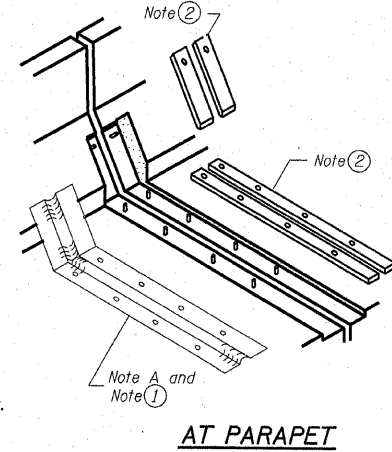
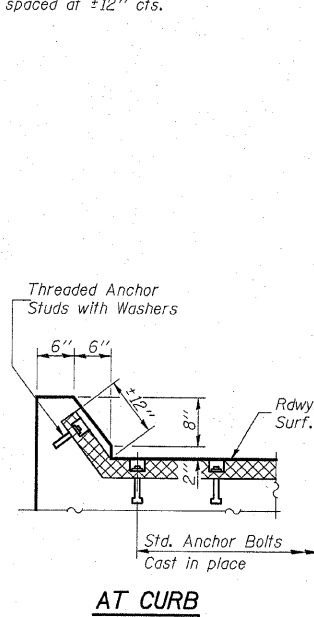
The elastomeric membrane shall be pre-molded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

The parapet and roadway membrane shall be made continuous by an approved vulcanizing process. Lapping will not be permitted.

* Epoxy grout 5/8" φ threaded studs in accordance with article 584 of the Standard Specifications space to miss existing studs.

Removal of the existing neoprene expansion joint and studs is included in the cost of "NEOPRENE EXPANSION JOINT" of the size specified.

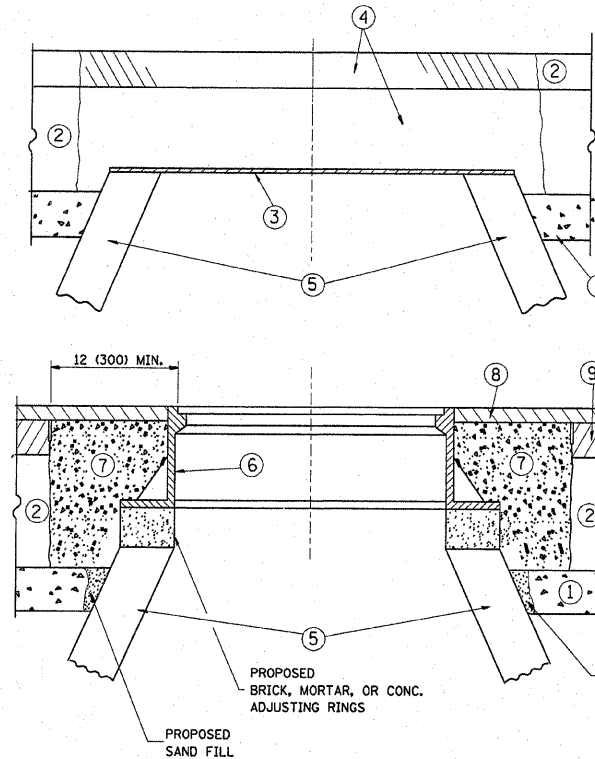


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DUNDEE ROAD OVER I-94 (EDENS EXPRESSWAY)
 NEOPRENE JOINT REMOVAL AND REPLACEMENT
 SN 016-0939
 SCALE: NONE
 DATE APRIL 2000
 DRAWN BY MVT
 CHECKED BY TMS

10/10/2007 c:\p\proj\ect\at\35899\35899a.mxd

F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
*	38 RS-4	COOK	36 13
STA.	TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	
* F.A.P. 343	CONTRACT NO. 60814		
F.A.U. 1273			



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE 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, HMA SURFACE COURSE OR HMA BINDER COURSE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA 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: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

NOTES:

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

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

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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
R. BORO	01/01/07

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

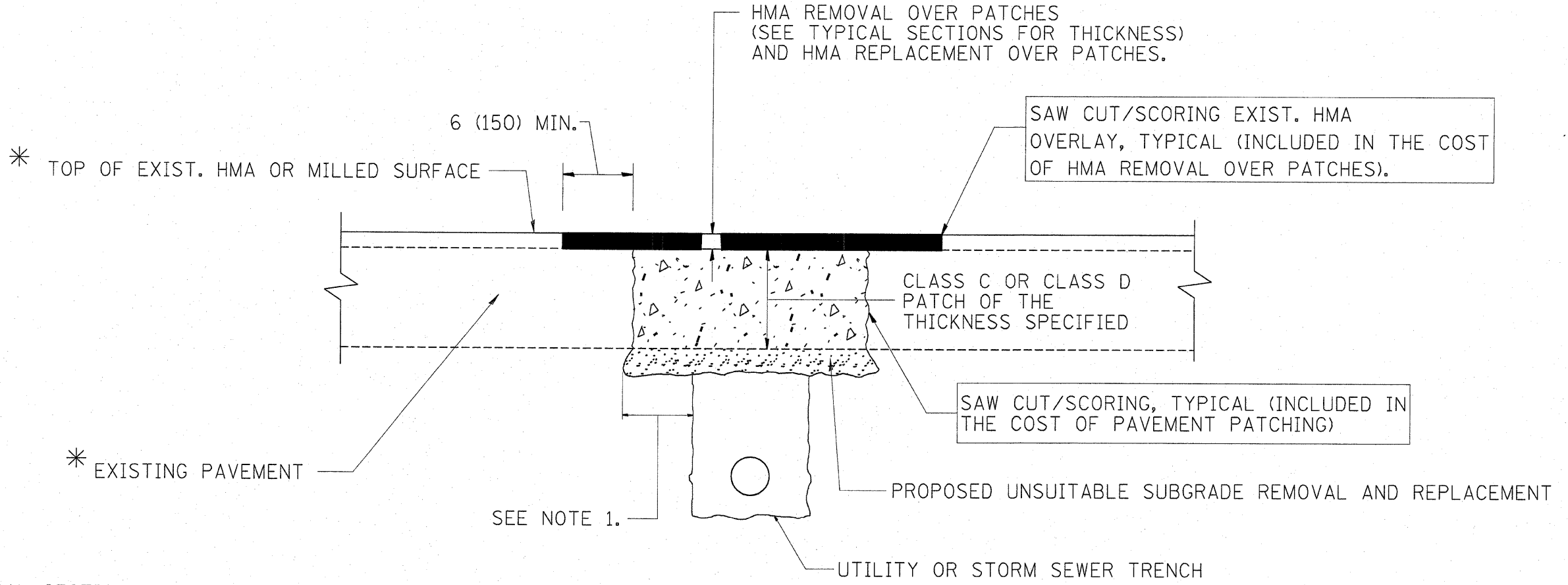
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CHECKED BY

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REVISION DATE: 01/01/07

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	14
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* F.A.P. 343	CONTRACT NO. 60814			
F.A.U. 1273				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION

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

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: VERT. NONE
HORIZ. 1" = 10'

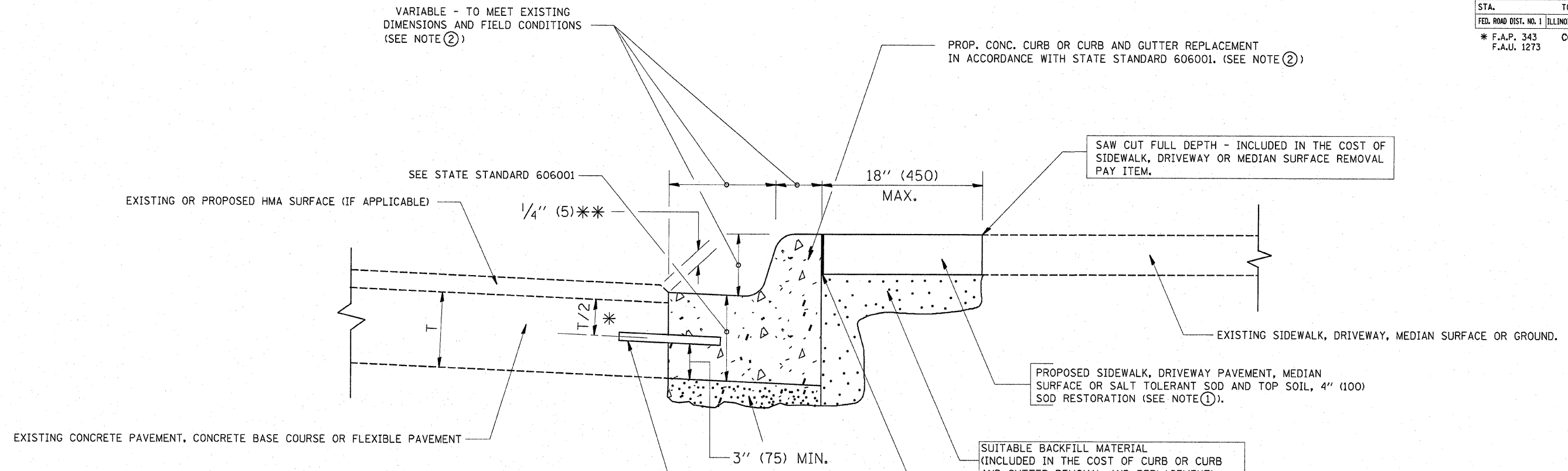
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REVISION DATE: 01/01/07

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 38 RS-4	COOK	36	15	
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* F.A.P. 343	CONTRACT NO. 60814			
F.A.U. 1273				



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

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

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

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

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

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

REVISIONS	
NAME	DATE
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
R. BORO	01/01/07

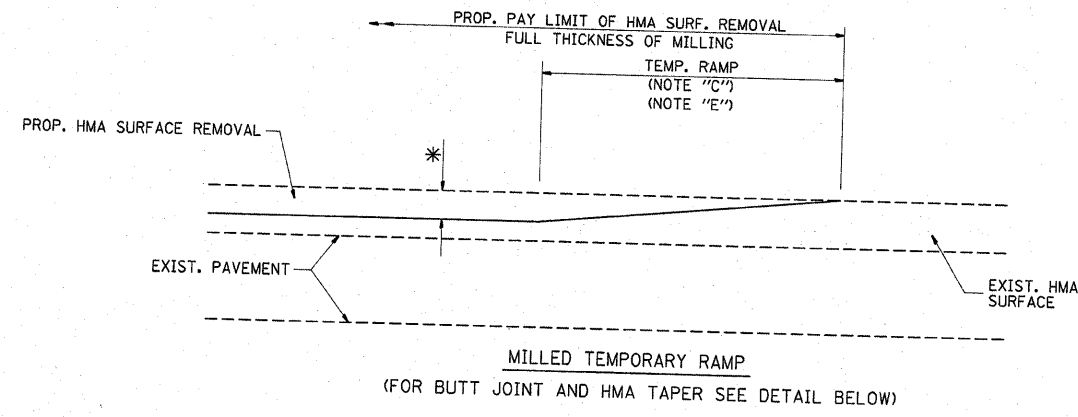
ILLINOIS DEPARTMENT OF TRANSPORTATION
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. NONE
HORIZ. 1" = 10'
DRAWN BY
CHECKED BY
PLOT DATE: 10/10/2007

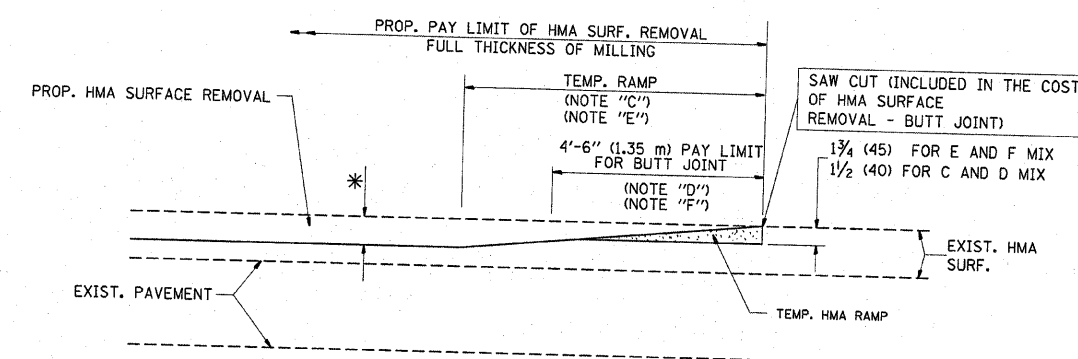
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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USER NAME = sstang

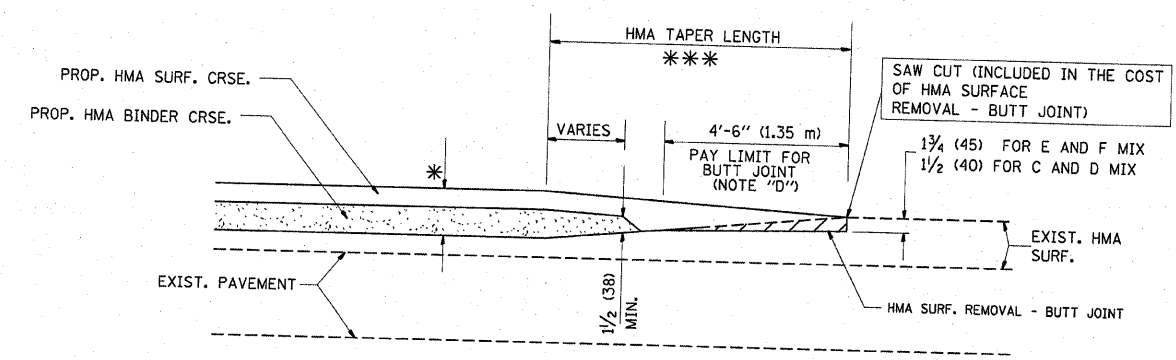
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	16
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* F.A.P. 343		CONTRACT NO. 60814		
F.A.U. 1273				



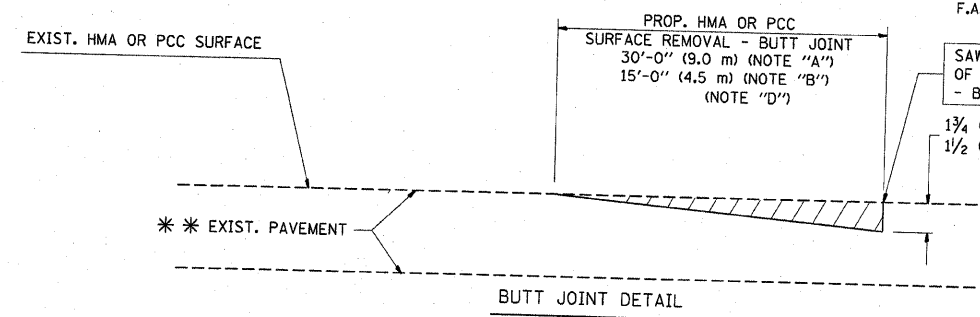
OPTION 1



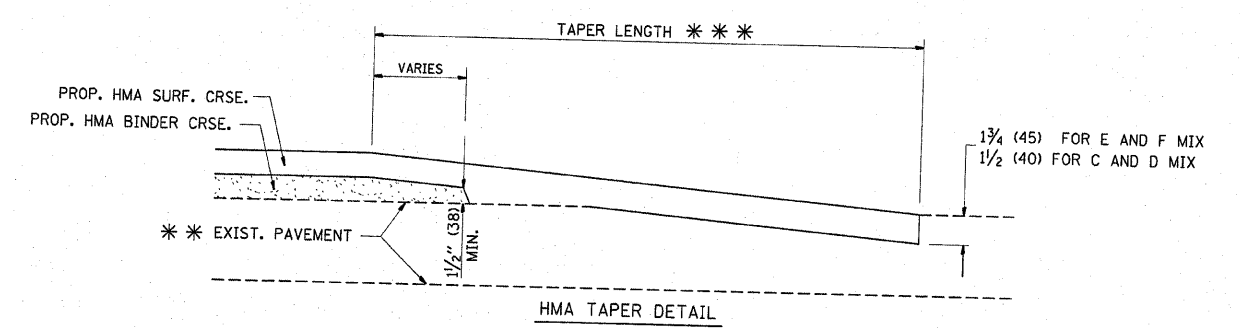
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/03
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

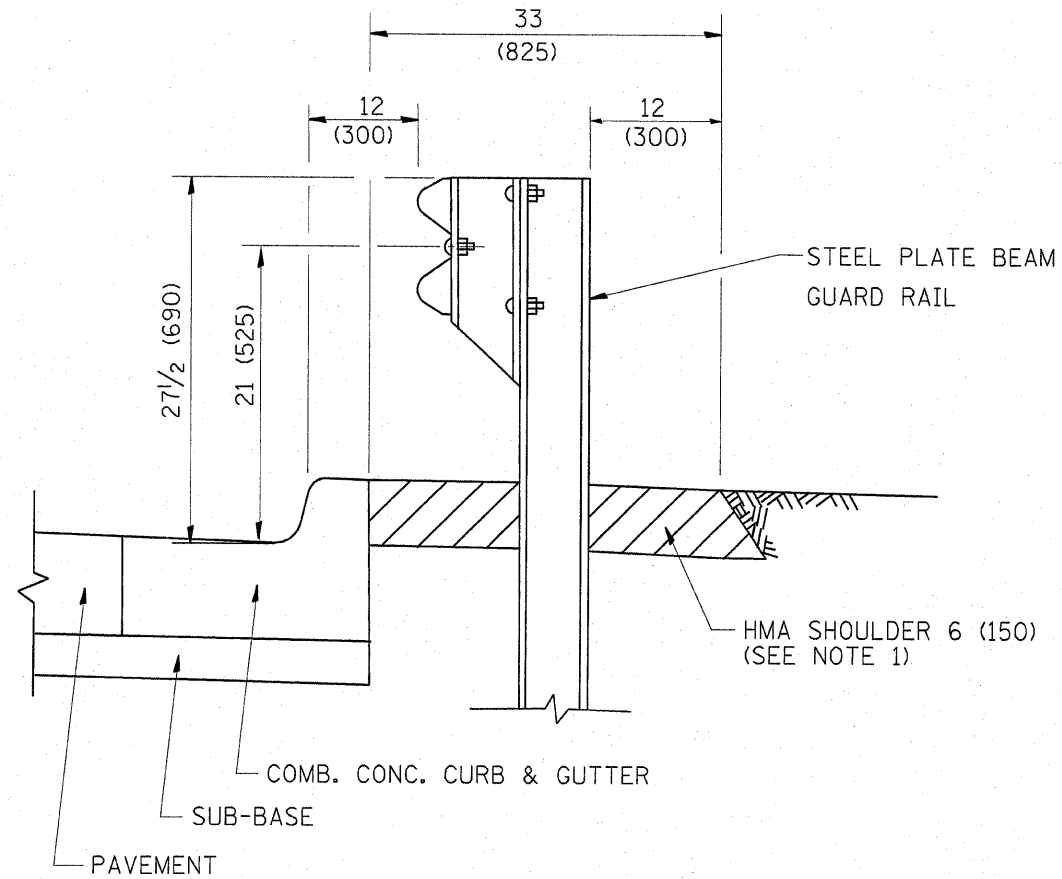
BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE
HORIZ. NONE
PLOT DATE: 10/10/2007

DRAWN BY
CHECKED BY
BD400-05 (VI=BD32)

PLT DATE = 10/10/2007
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PLOT SCALE = 50:1
USER NAME = steedpa

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
* F.A.P. 343			CONTRACT NO. 60814	
F.A.U. 1273				

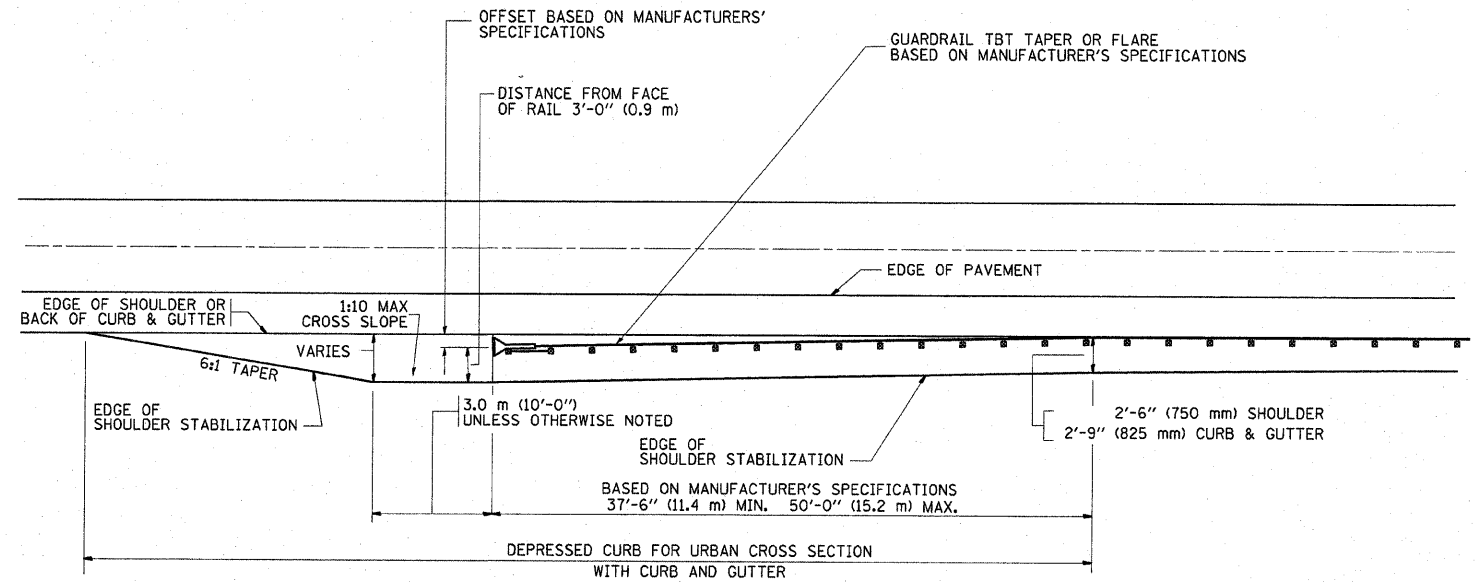


- NOTES: 1. THE HMA SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

BASIS OF PAYMENT: HMA SHOULDER 6 (150) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDER 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



STABILIZATION AT TBT TY. 1 SPL.

TBT = TRAFFIC BARRIER TERMINAL
 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

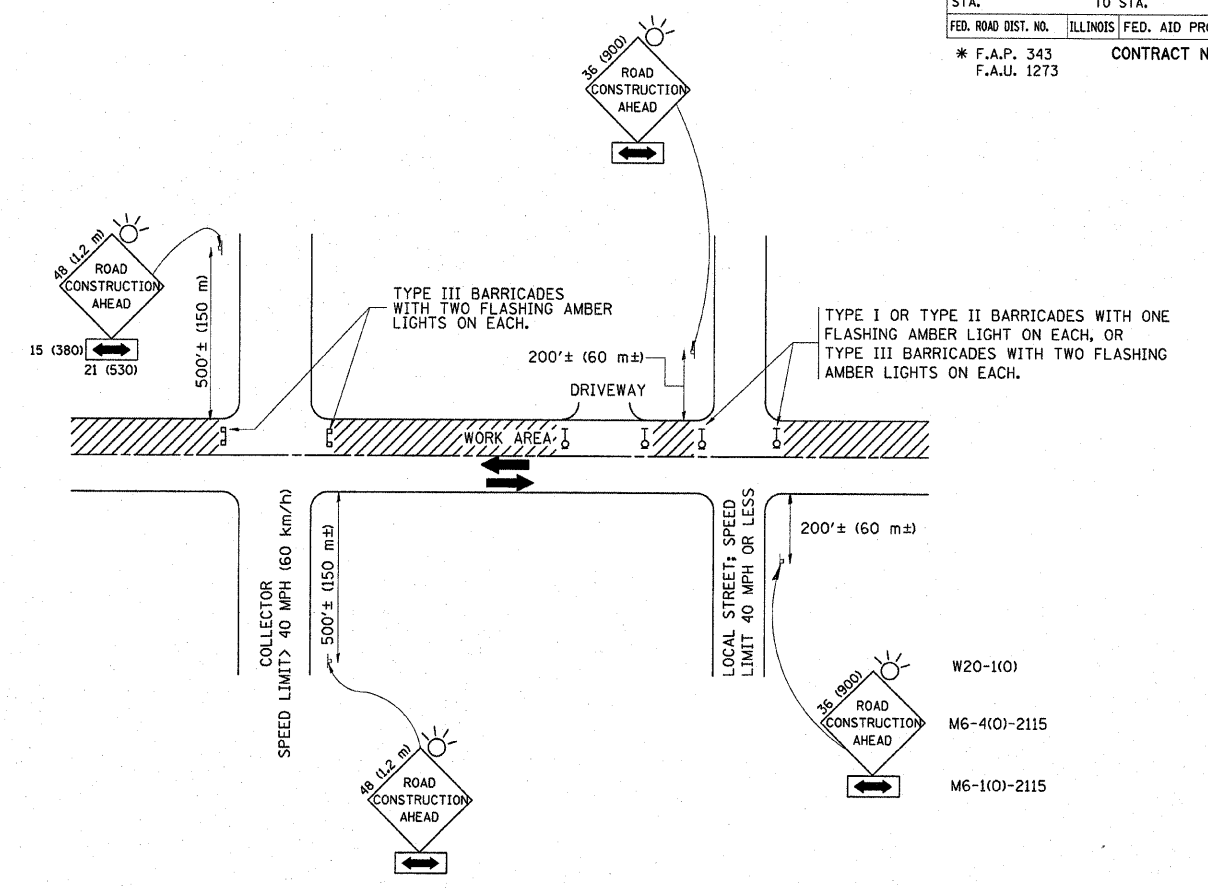
REVISIONS	
NAME	DATE
M. DE YONG	09-22-90
M. DE YONG	07-14-92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	02/23/95
A. ABBAS	03/21/97
E. GOMEZ	08/28/00
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.

SCALE: VERT. NONE
 HORIZ. NONE
 PLOT DATE: 10/10/2007
 DRAWN BY Jjs
 CHECKED BY

PLOT DATE = 10/10/2007
 FILE NAME = c:\p\projects\1135899\d65699a.dwg
 USER NAME = jjs

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* F.A.P. 343	CONTRACT NO. 60814			
F.A.U. 1273				



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

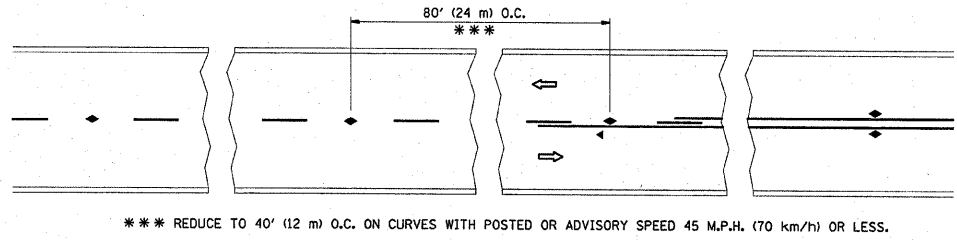
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

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

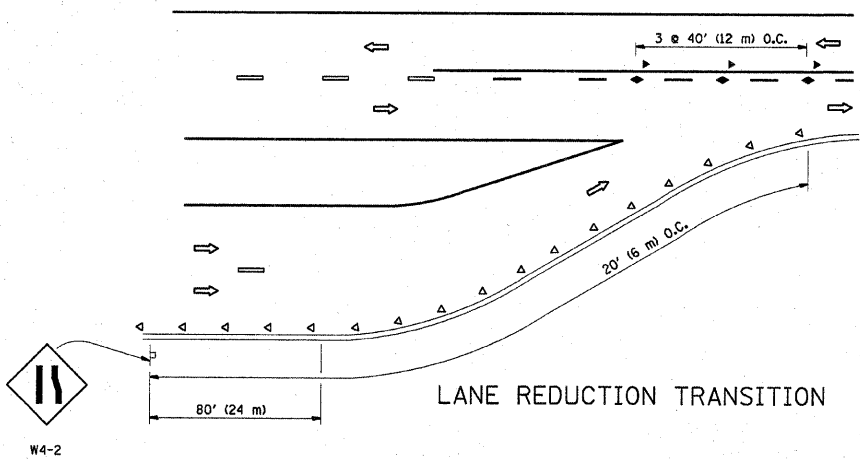
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PLOT DATE: 10/10/2007
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USER NAME: jsteele

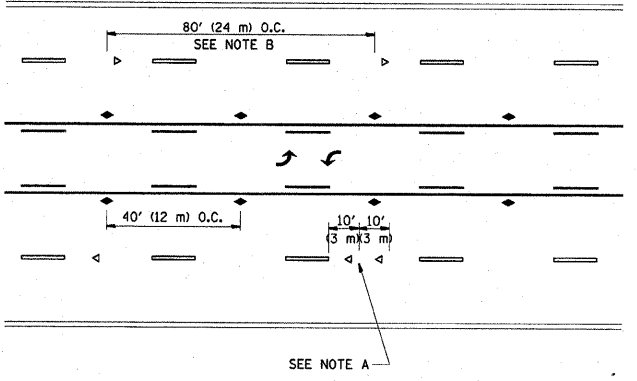
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* F.A.P. 343		CONTRACT NO. 60814		
F.A.U. 1273				



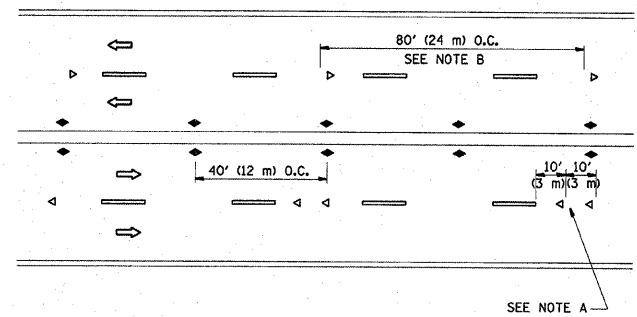
TWO-LANE/TWO-WAY



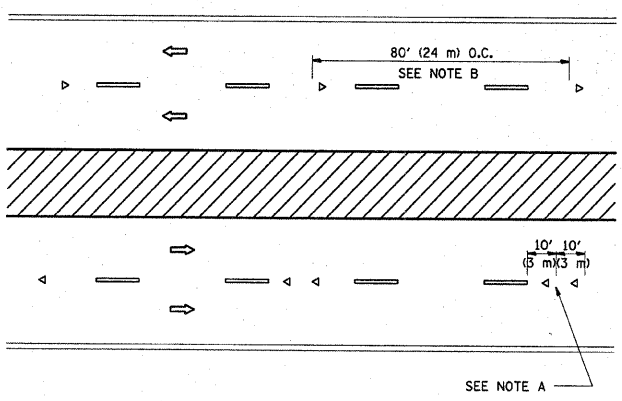
LANE REDUCTION TRANSITION



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 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

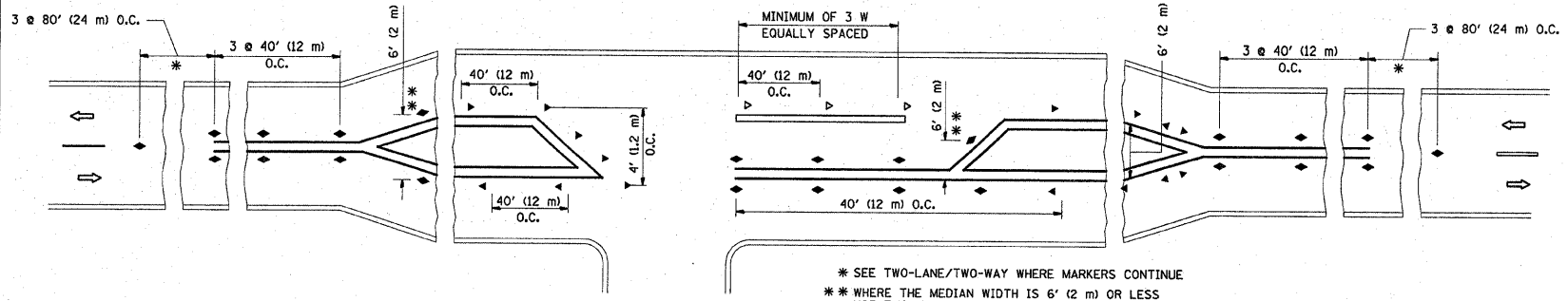
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

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

PLOT DATE = 10/10/2007
 FILE NAME = c:\projects\1135899\1135899.dwg
 USER NAME = stredpa

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

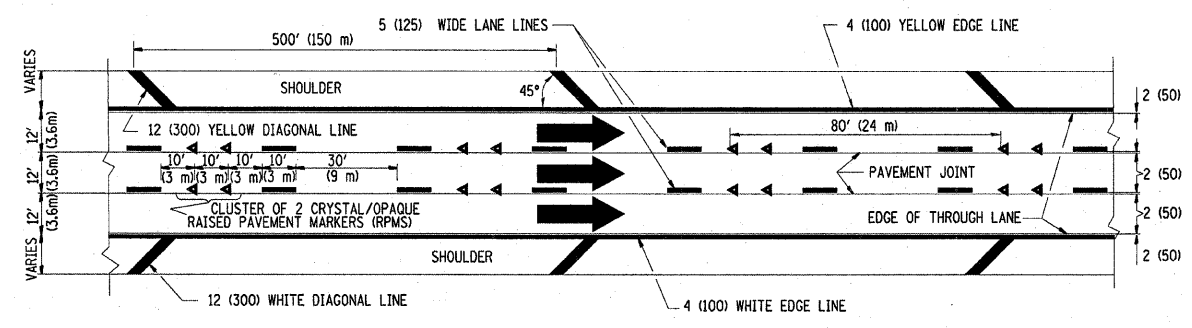
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT
 MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE
 DATE: 10/10/2007
 DRAWN BY CADD
 CHECKED BY
 TC-11

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 38 RS-4	COOK		36	20
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

* F.A.P. 343
F.A.U. 1273
CONTRACT NO. 60814

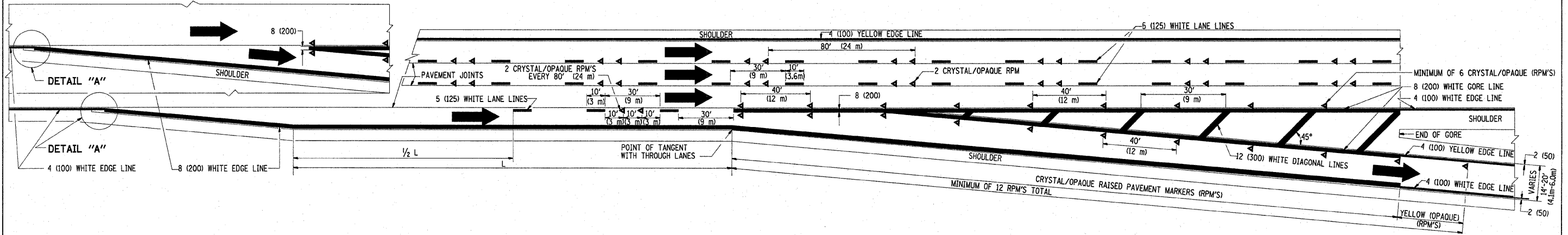
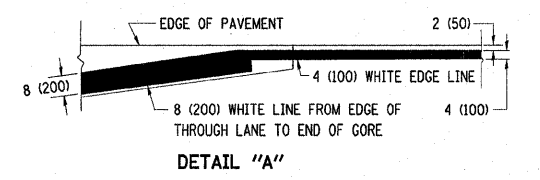
THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH
THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH



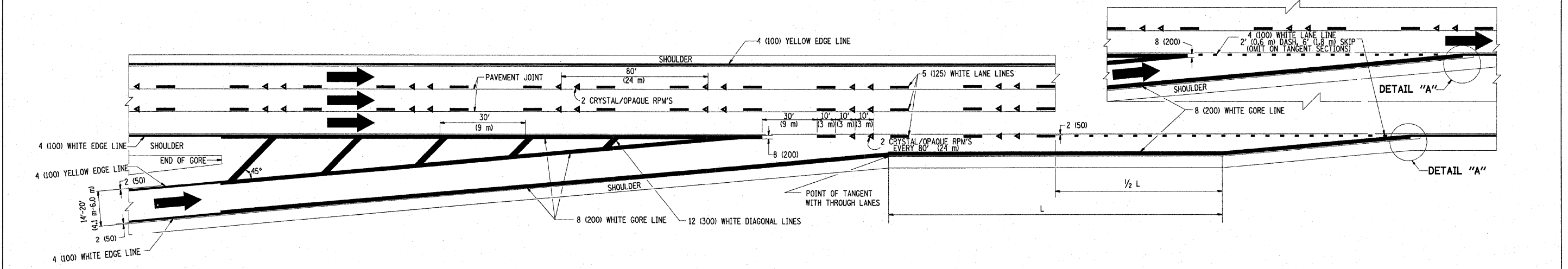
TYPICAL EDGE LINES & LANE LINES

NOTES:

1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC



TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

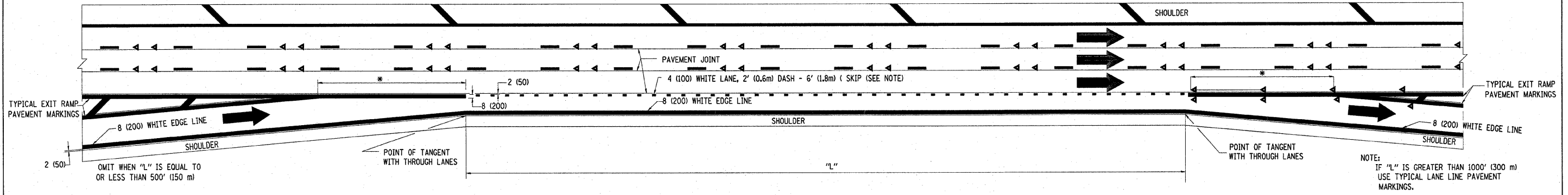
REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
AH	3/96
DWS	7/96
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
MULTI-LANE FREEWAY
PAVEMENT MARKING
DETAILS

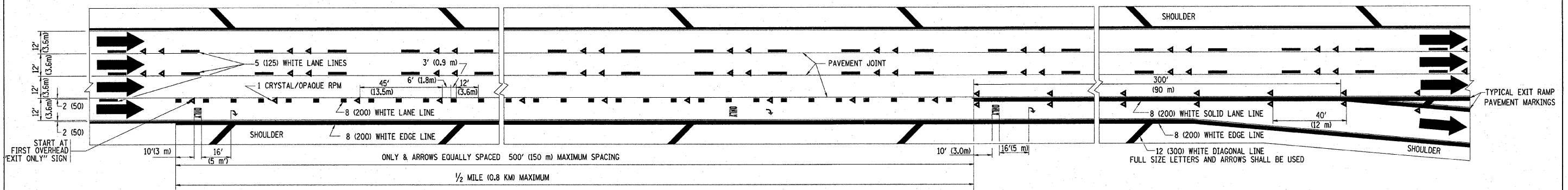
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DATE: 10/10/2007
DRAWN BY C.A.D.D.
CHECKED BY
TC12 SHEET 1 OF 2
REVISION DATE: 01/01/07

PLOT DATE = 10/10/2007
FILE NAME = c:\pvc\users\jaf\38899\438899.dwg
PLOT SCALE = 50:1
USER NAME = steedpa

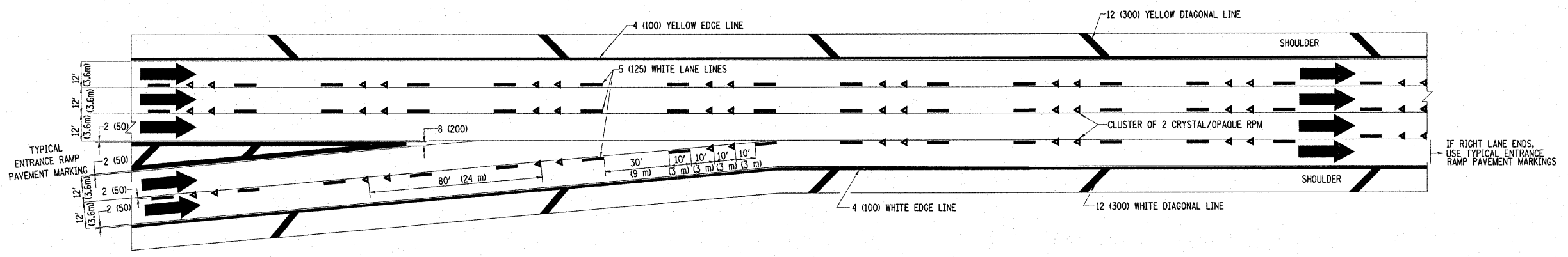
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	21
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* F.A.P. 343 F.A.U. 1273			CONTRACT NO. 60814	



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS



TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
SPB	1/07

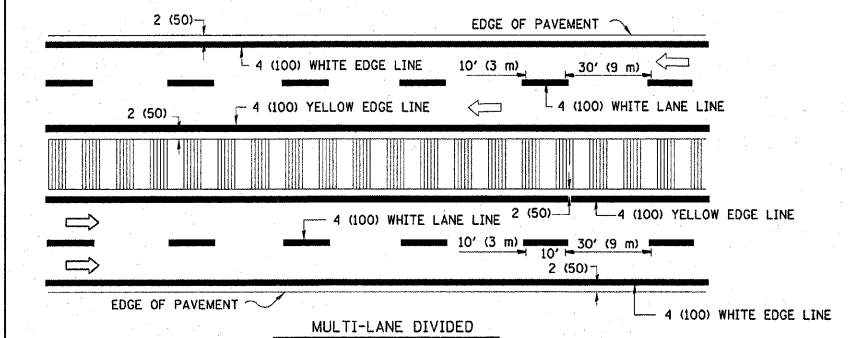
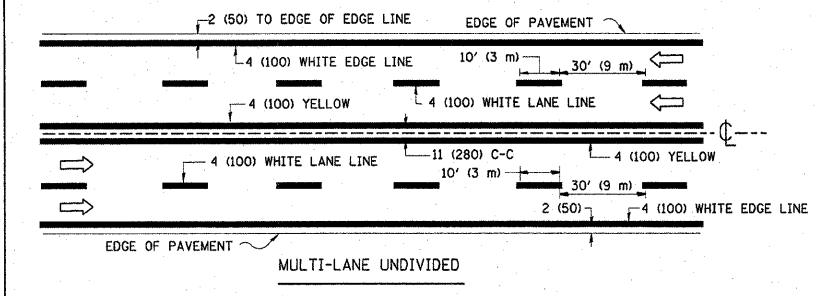
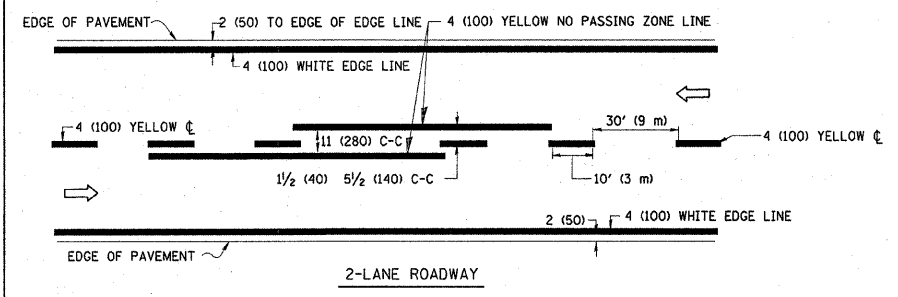
ILLINOIS DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS

SCALE: NONE
DATE: 10/10/2007

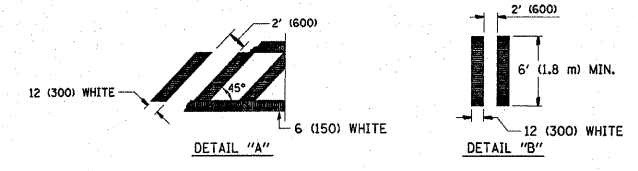
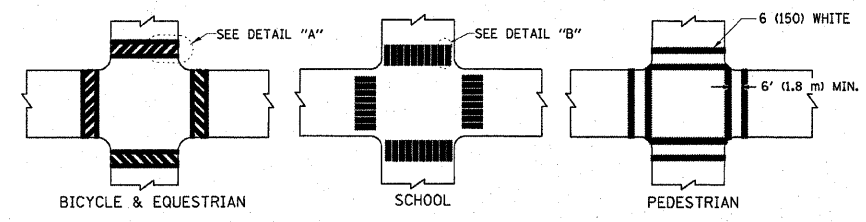
DRAWN BY: C.A.D.D.
CHECKED BY:
TC12 SHEET 2 OF 2
REVISION DATE: 01/01/07

PLOT DATE = 10/10/2007
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USER NAME = atedpa

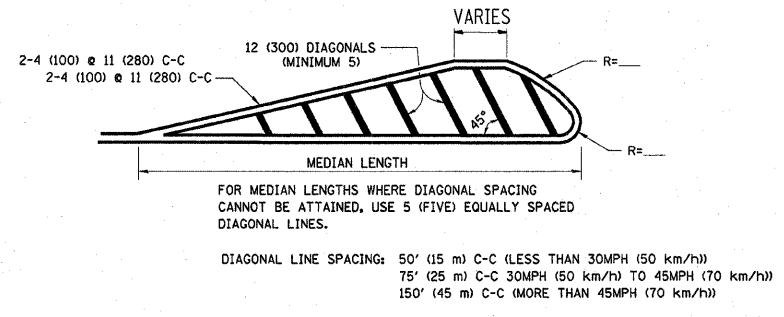
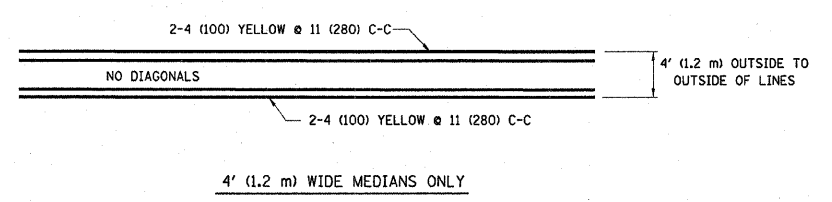


NOTE: MEDIANS WITH BARRIER CURBS DO NOT REQUIRE AN EDGE LINE

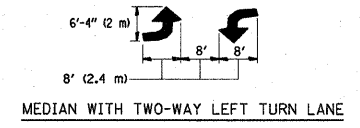
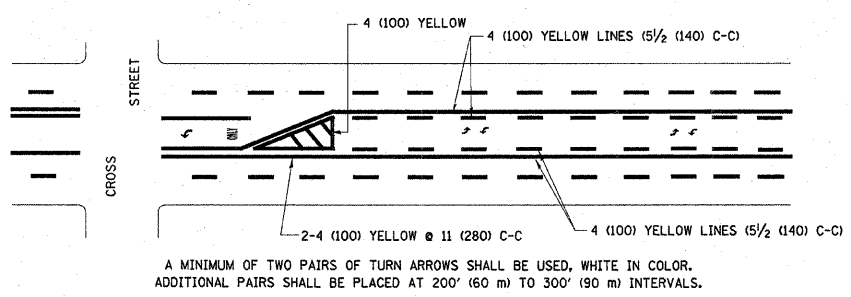
TYPICAL LANE AND EDGE LINE MARKING



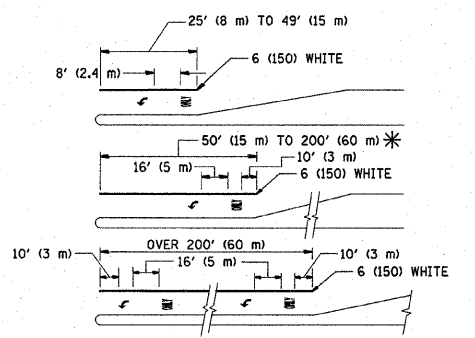
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING

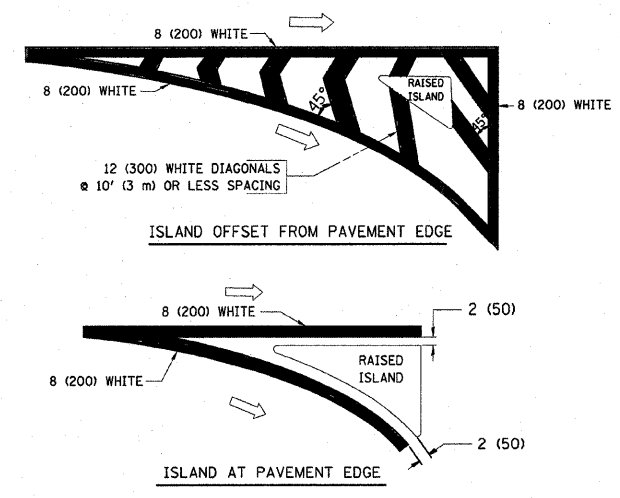


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
* AREA = 15.6 SQ. FT. (1.5 m²) □ AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

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

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

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

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: 10/10/2007

DRAWN BY CADD

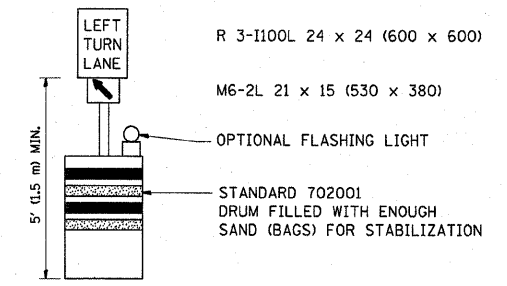
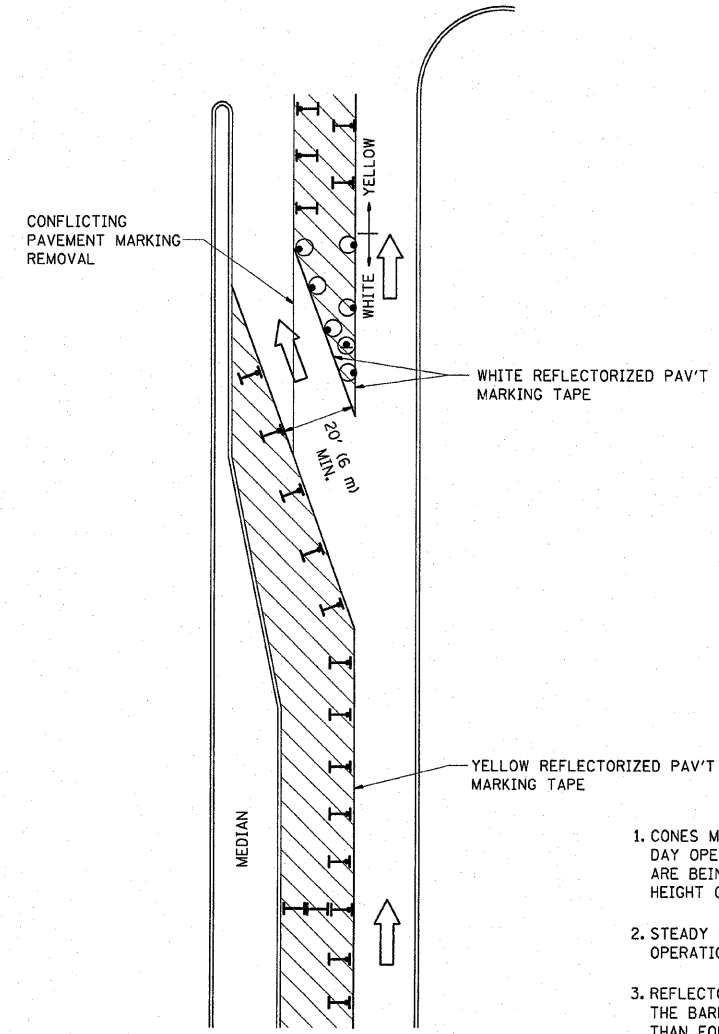
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REVISION DATE: 01/06/00

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




F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* F.A.P. 343		CONTRACT NO. 60814		
F.A.U. 1273				



GENERAL NOTES

- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
- STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 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.
- 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 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- FORM BT 725 IS REQUIRED.
- 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.

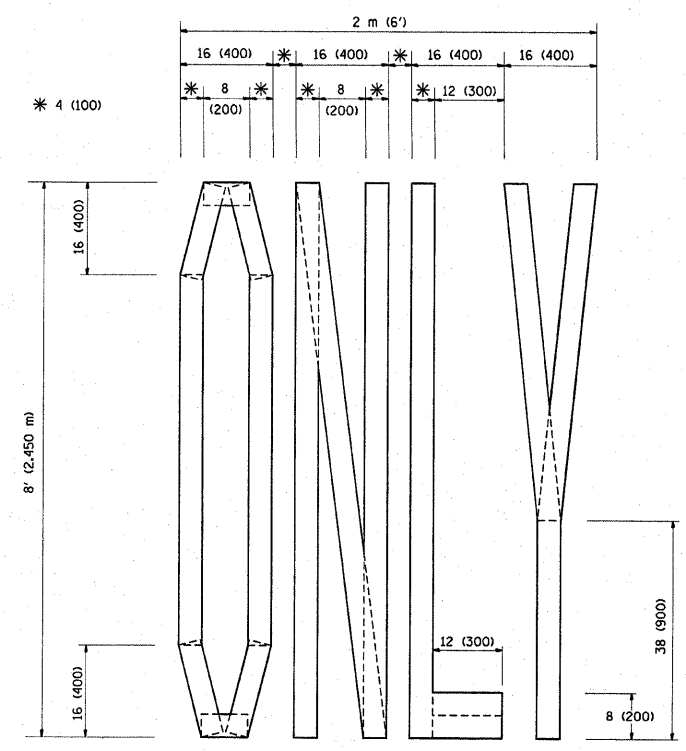
REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

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

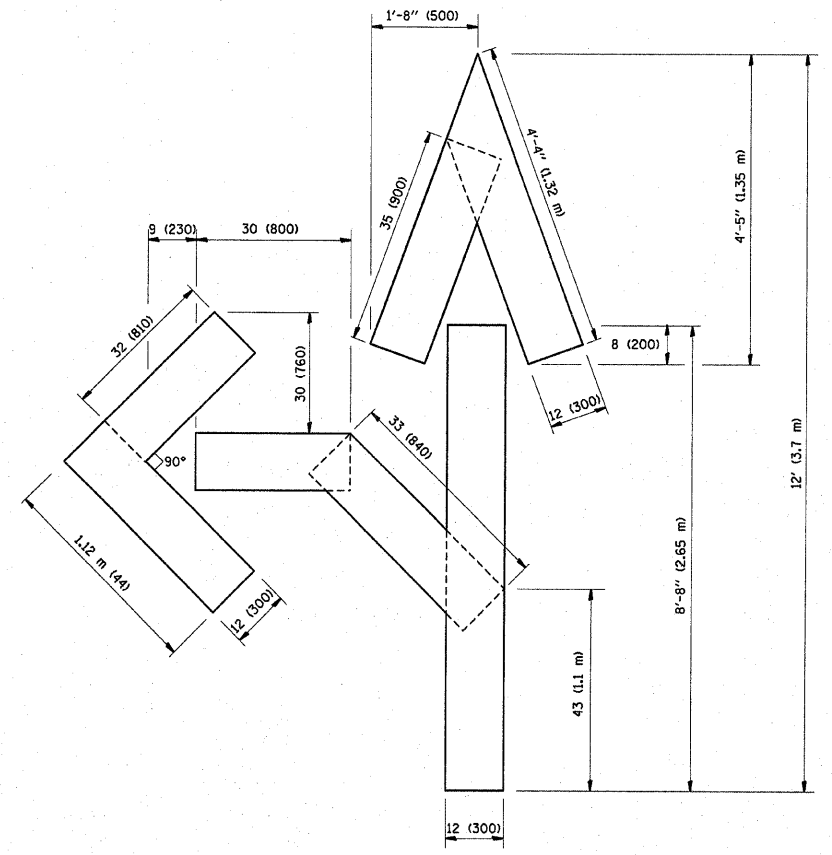
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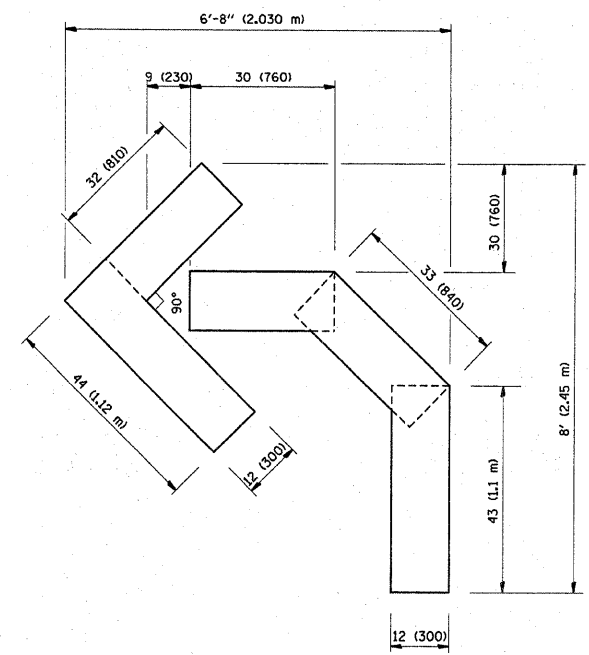
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 38	RS-4	COOK	36	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* F.A.P. 343		CONTRACT NO. 60814		
F.A.U. 1273				



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



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 millimeters (Inches) unless otherwise shown.

PLOT DATE = 10/18/2007
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 USER = jgomez

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

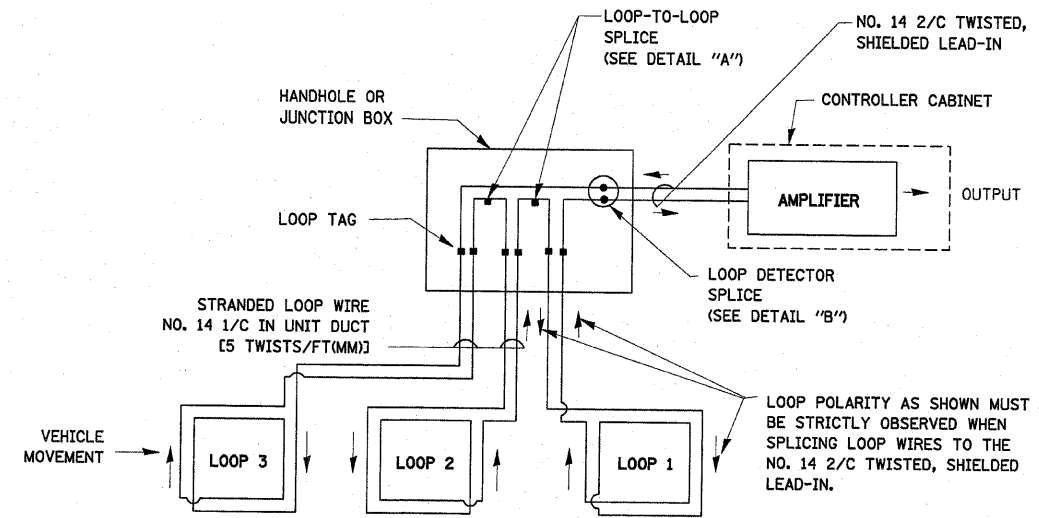
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 CHECKED BY
 TC-16

REVISION DATE: 08/28/00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	25
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* F.A.P. 343	CONTRACT NO. 60814			
F.A.U. 1273				

LOOP DETECTOR NOTES

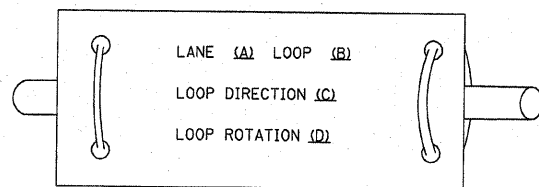
- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED 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.
- PERFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PERFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



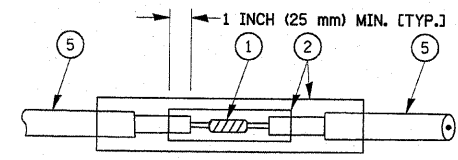
DETECTOR LOOP WIRING SCHEMATIC

- 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.

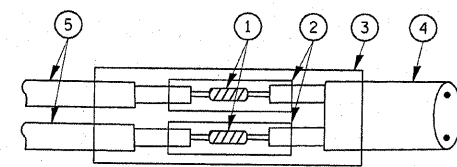
LOOP LEAD-IN CABLE TAG



- 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
CADD	5/30/00
ADD NOTE NO. 8	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: NONE
DATE: 10/10/2007

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

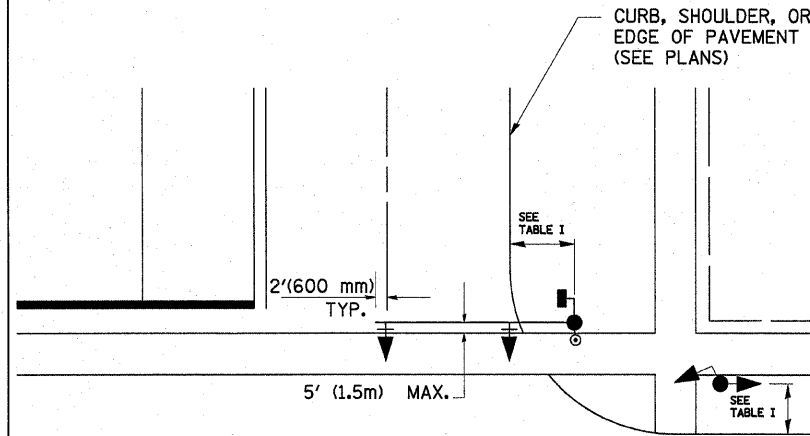
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REVISION DATE: 01/01/02

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

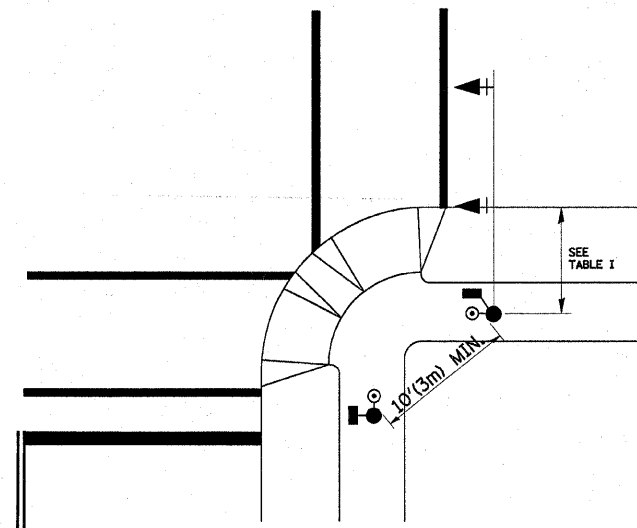
* F.A.P. 343/ F.A.U. 1273 CONTRACT NO. 60814

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

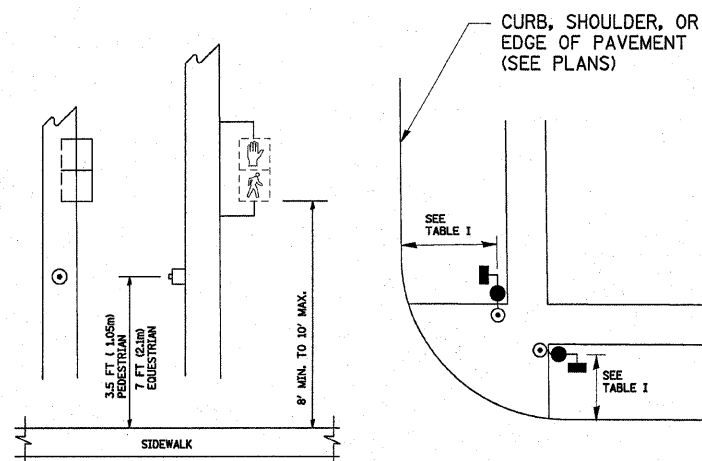


TABLE I

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

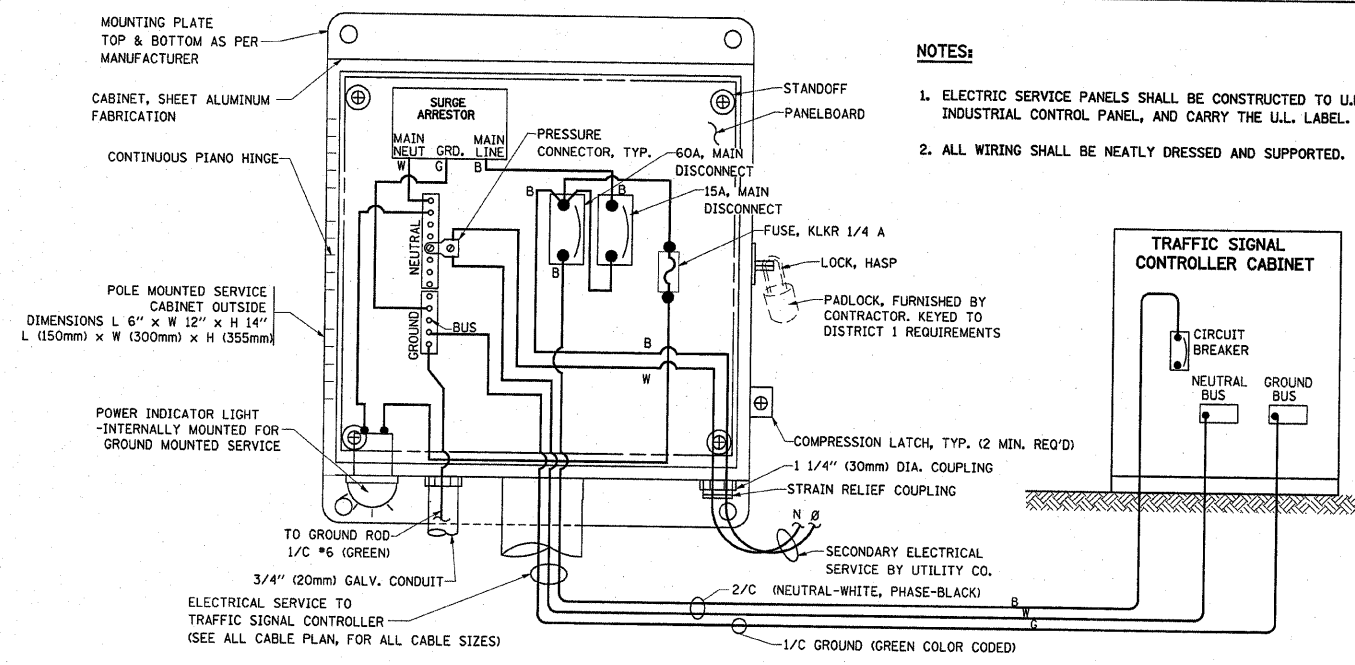
REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS
 SCALE: NONE
 DATE: 10/10/2007
 DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 2 OF 4
 TS05

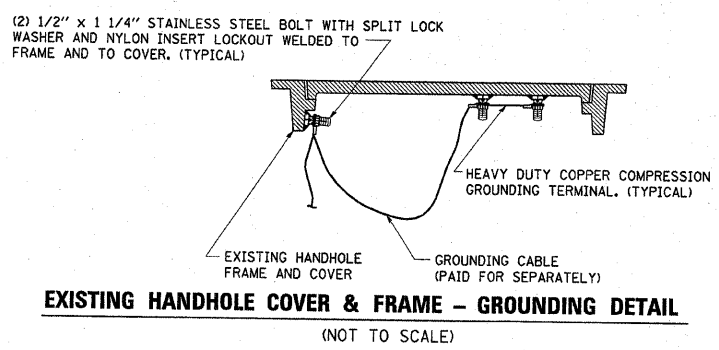
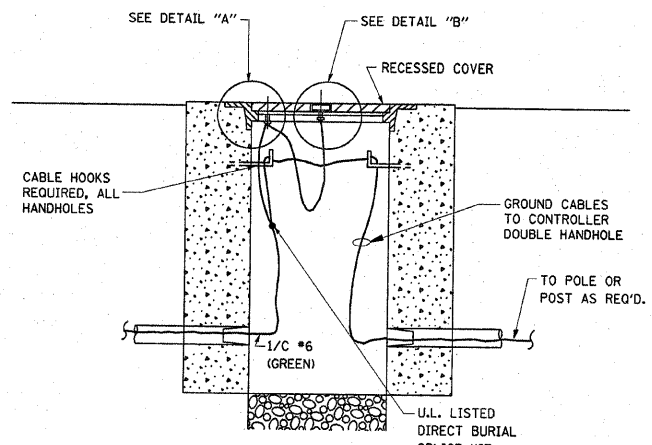
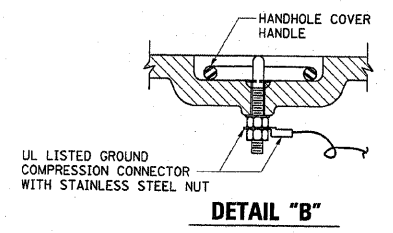
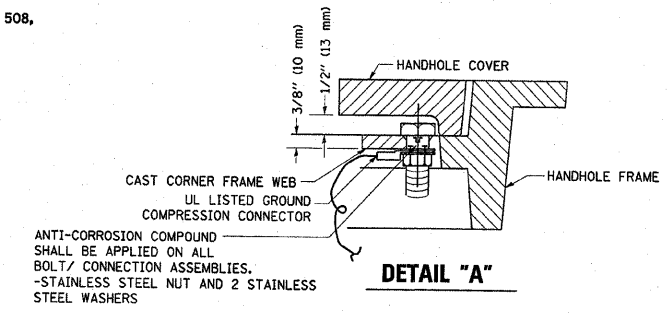
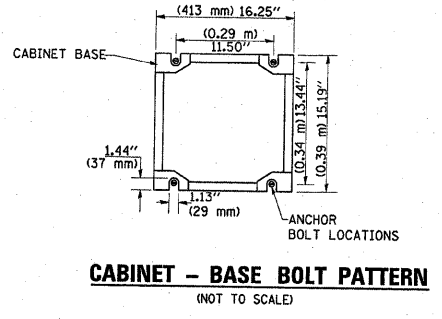
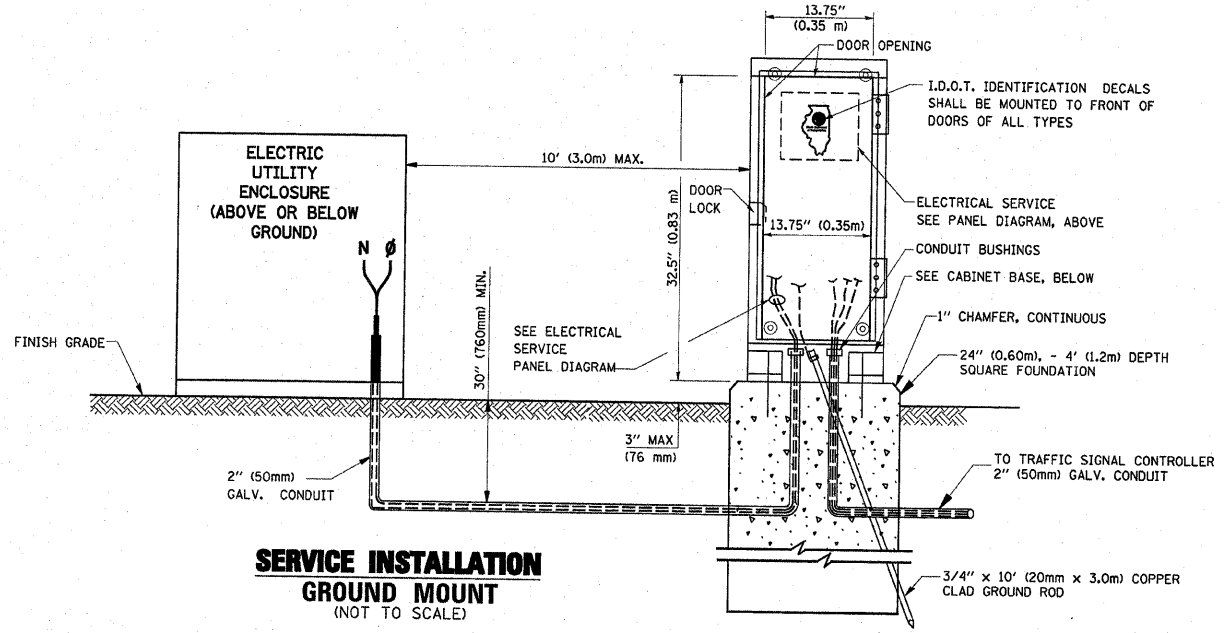
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* F.A.P. 343/ F.A.U. 1273 CONTRACT NO. 60814



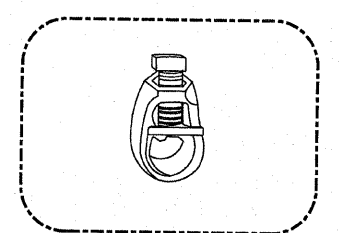
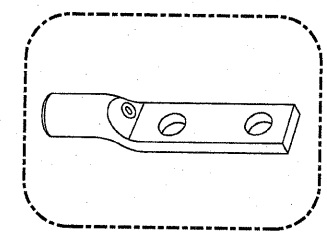
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



NOTES:

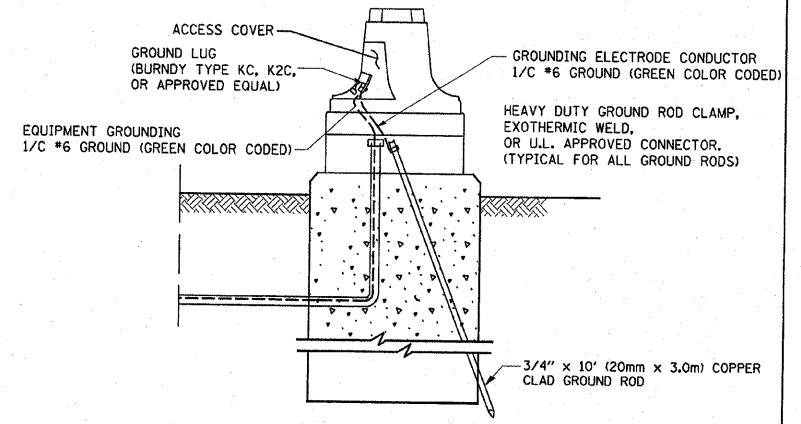
GROUNDING SYSTEM

- 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.
- 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.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

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



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

REVISIONS	
NAME	DATE
CADD	5/30/00
CADD	3/15/01
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT ONE
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

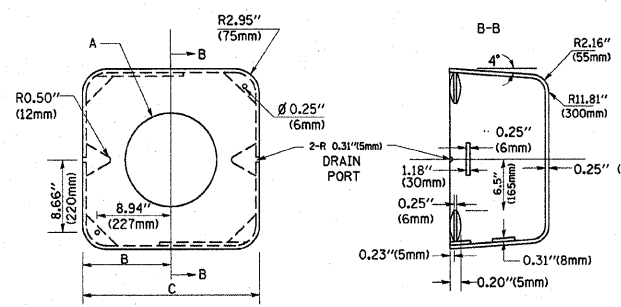
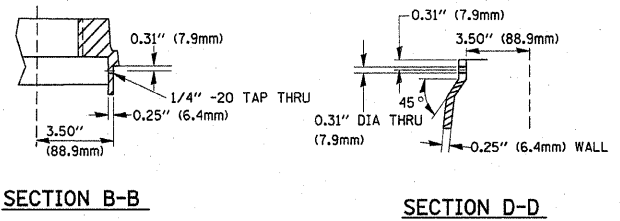
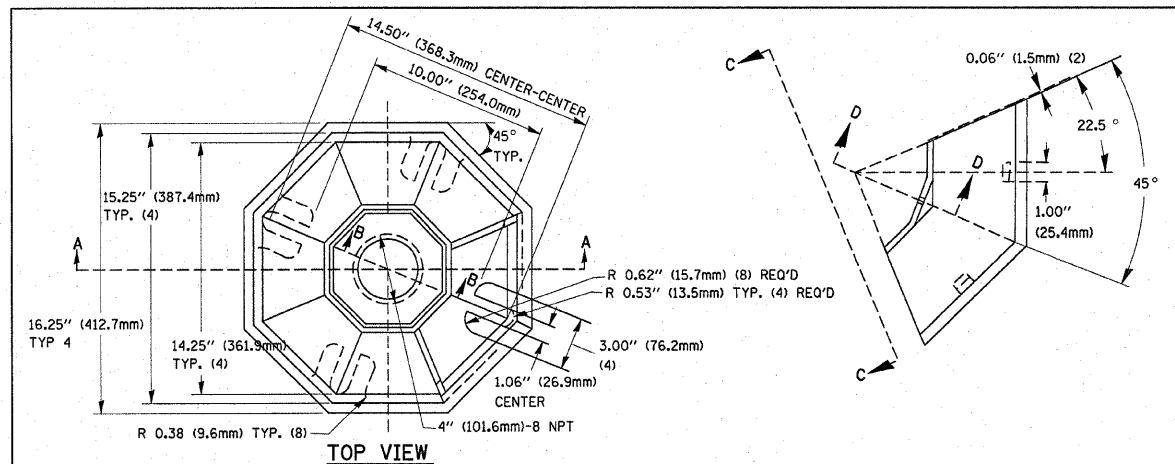
SCALE: NONE
 DATE: 10/10/2007

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

TS05
 REVISION DATE: 01/01/02

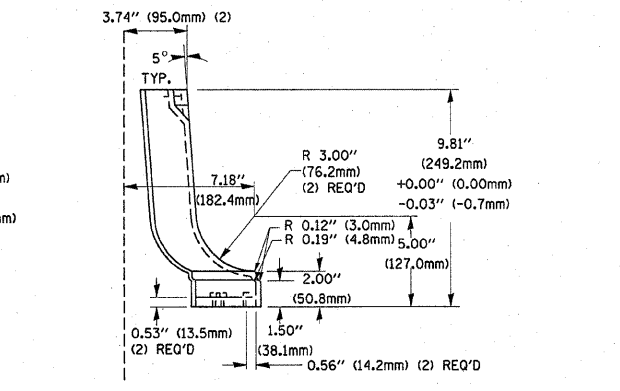
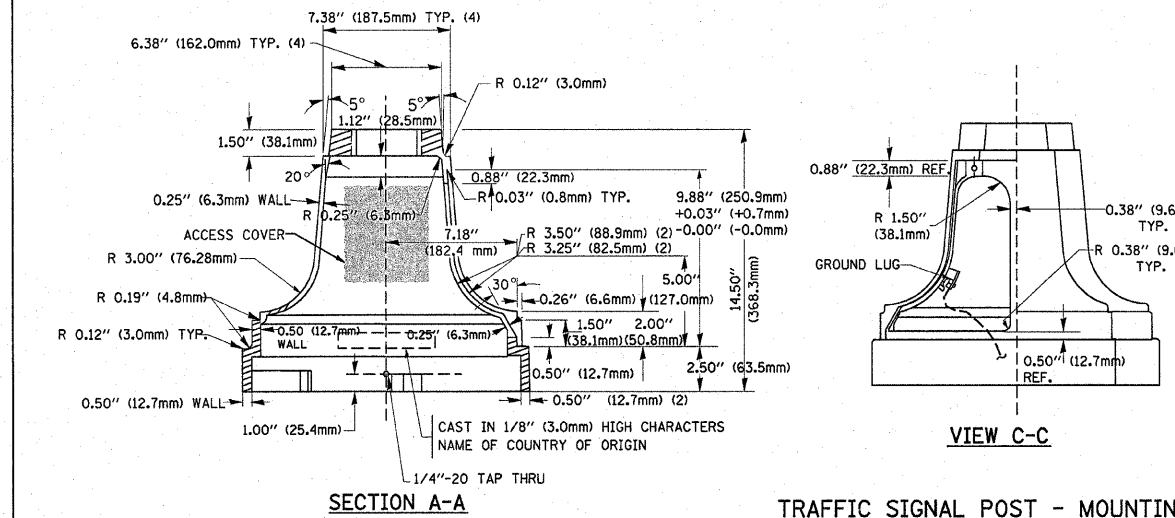
PLOT DATE = 10/10/2007
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = stndpda

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 38 RS-4	COOK	36	28	
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* F.A.P. 343/	CONTRACT NO. 60814			
F.A.U. 1273				

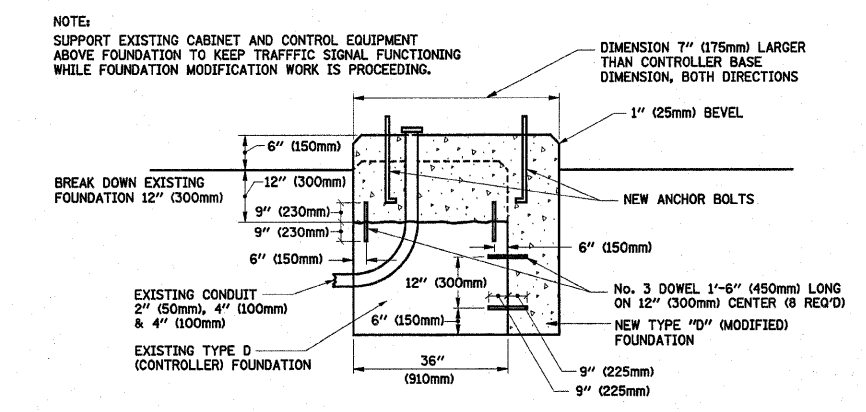


TYPE	A	B	C	HEIGHT	WEIGHT
I	∅ 10.125\"(257mm)	9.5\"(241mm)	19\"(483mm)	12\"(300mm)	24kg
II	∅ 11.125\"(283mm)	10.75\"(273mm)	21.5\"(546mm)	12\"(300mm)	26kg

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

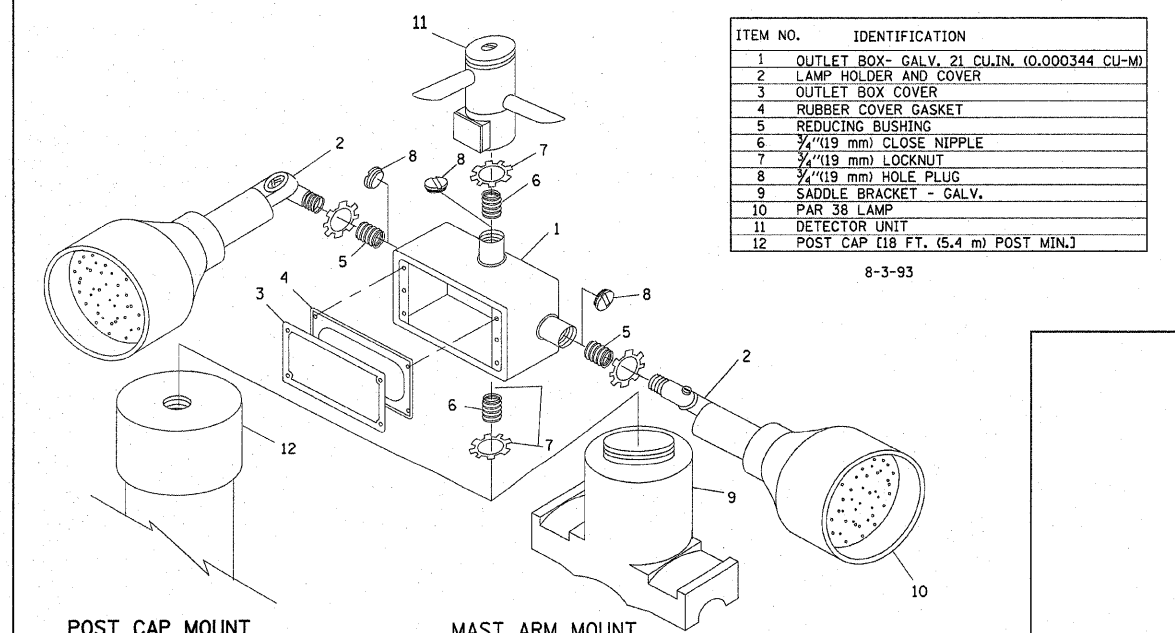


TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



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

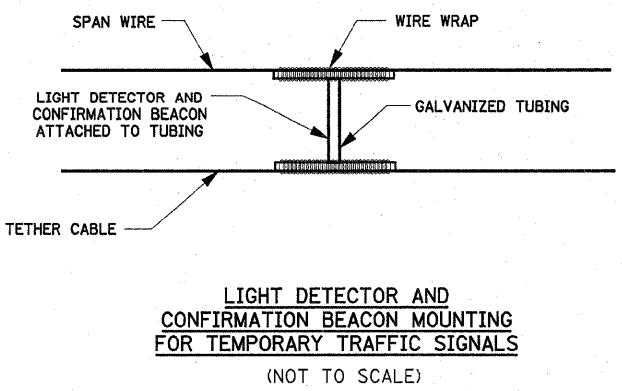
MODIFY EXISTING TYPE "D" FOUNDATION (NOT TO SCALE)



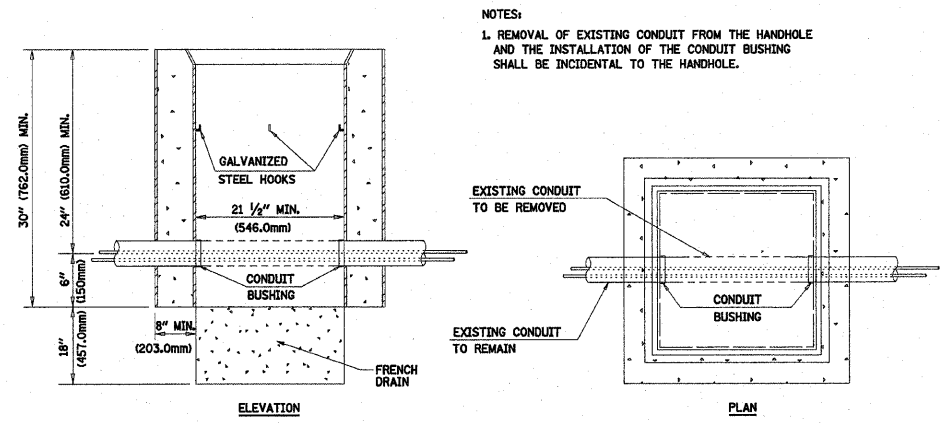
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.00344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\"(19 mm) CLOSE NIPPLE
7	3/4\"(19 mm) LOCKNUT
8	3/4\"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:
 1. 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-O-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 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.

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)



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

REVISIONS	NAME	DATE
BUREAU OF TRAFFIC		5/30/00
BUREAU OF TRAFFIC		3/15/01
BUREAU OF TRAFFIC		11/12/01
BUREAU OF TRAFFIC		1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT ONE
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

SCALE: NONE
 DATE: 10/10/2007

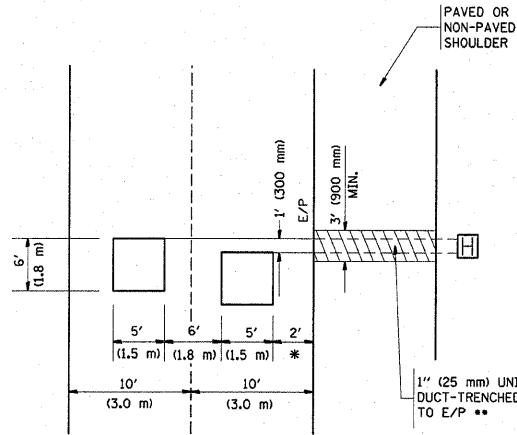
DRAWN BY: RWP
 DESIGNED BY: DAZ
 CHECKED BY: DAZ
 SHEET 4 OF 4

PLOT DATE = 10/10/2007
 FILE NAME = C:\pwworkspace\135899\135899.dwg
 USER NAME = s135899

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* F.A.P. 343/ F.A.U. 1273			CONTRACT NO. 60814	

LOOPS NEXT TO SHOULDERS

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

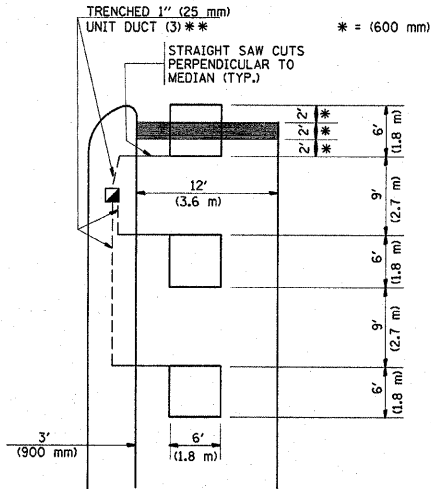


* = (600 mm)

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

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

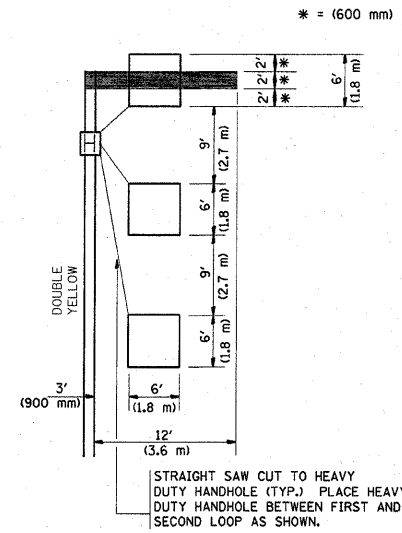
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

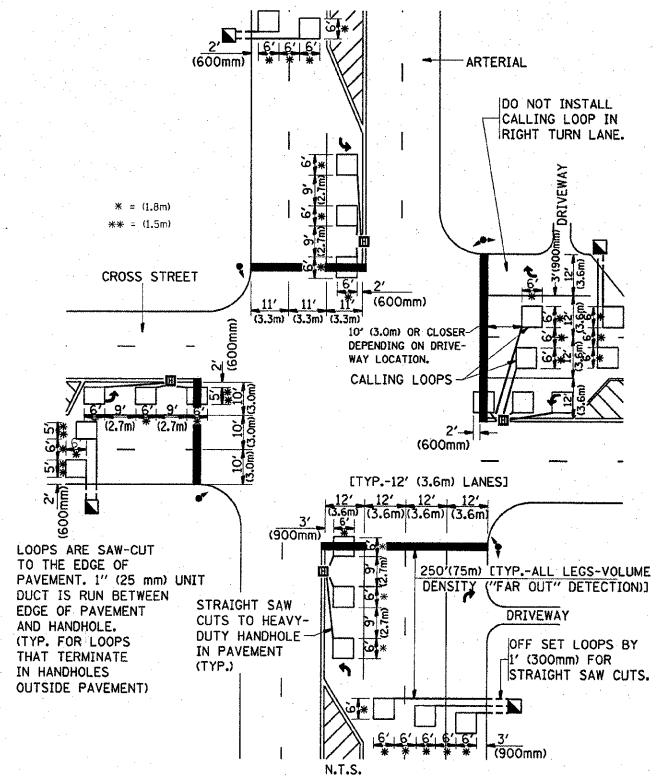
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



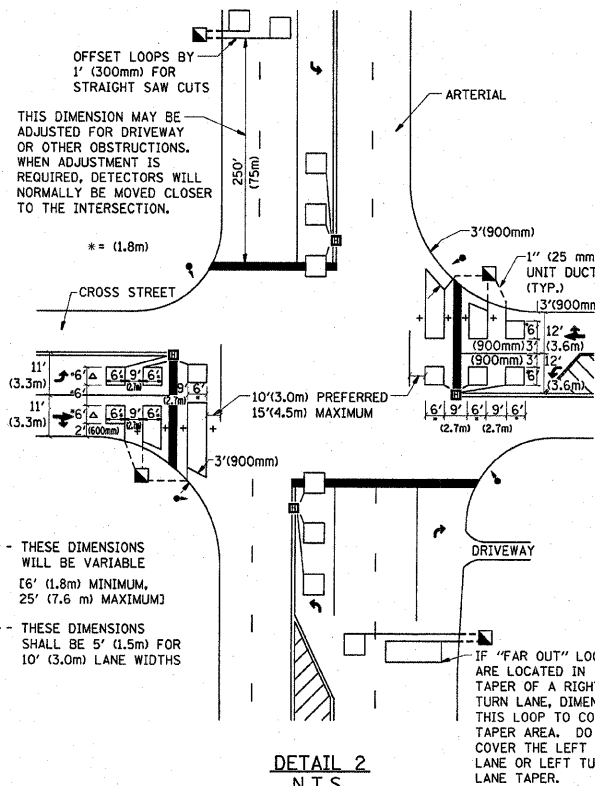
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



DETAIL 1
N.T.S.

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



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

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

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

NOTE:

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

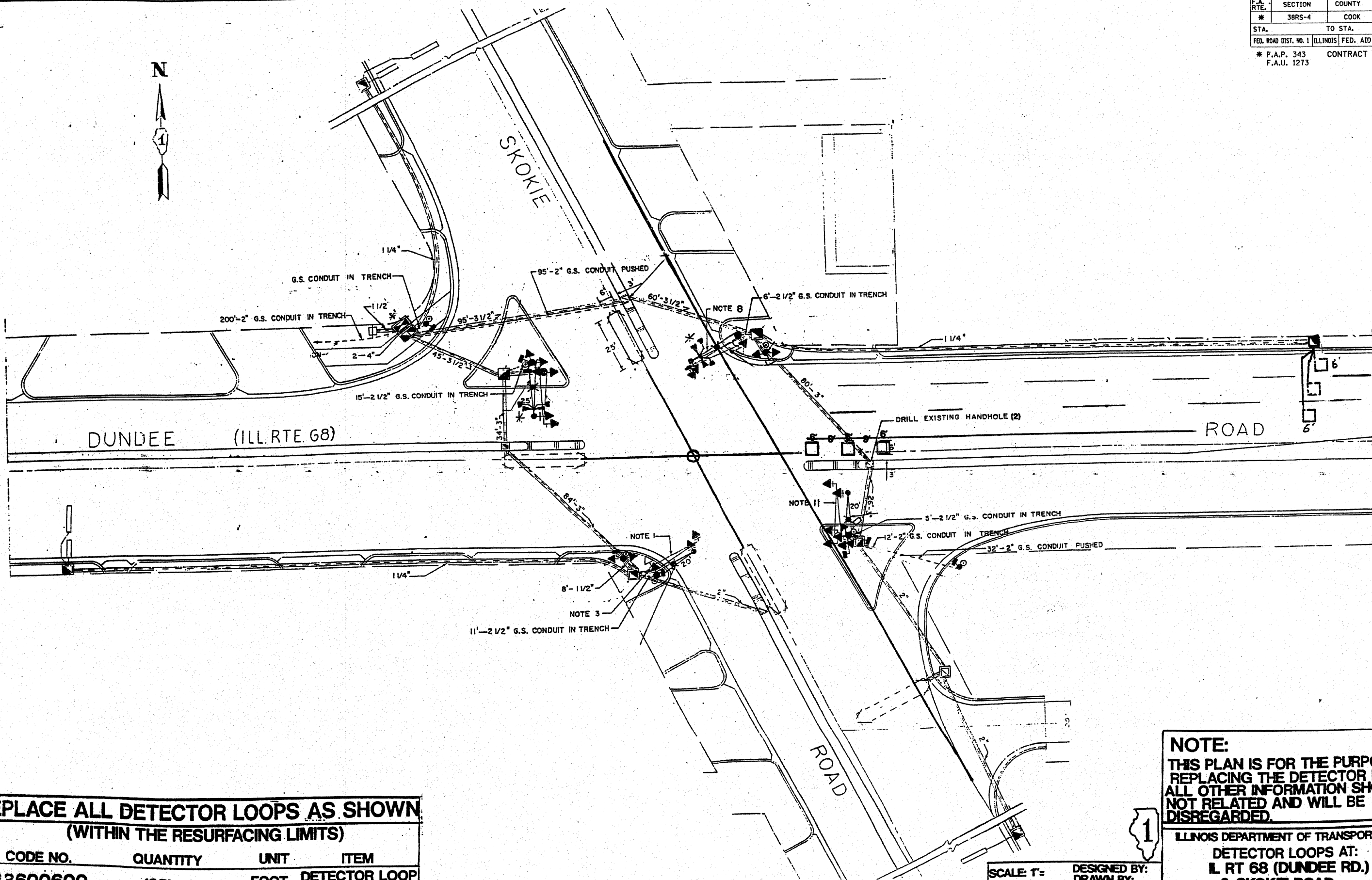
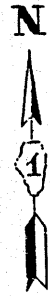
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
DETECTOR LOOP
INSTALLATION DETAILS
FOR ROADWAY RESURFACING
DESIGNED BY
DRAWN BY CADD
CHECKED BY R.K.F.
SCALE: NONE
TS07

PLOT DATE = 18/10/2007
FILE NAME = c:\projects\325899\325899.dwg
USER NAME = steedip

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#	38RS-4	COOK	36	30
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* F.A.P. 343		CONTRACT NO. 60814		
F.A.U. 1273				



**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

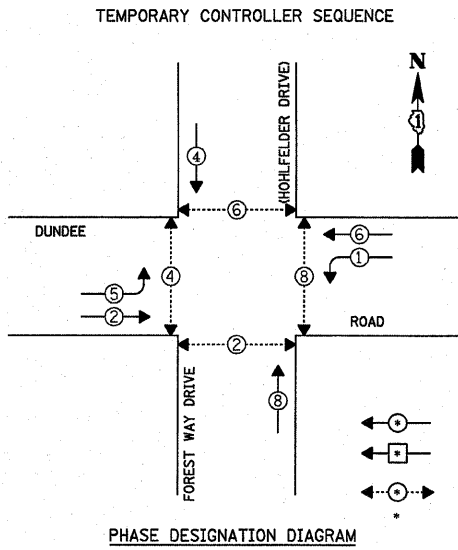
CODE NO.	QUANTITY	UNIT	ITEM
'83600600	195'	FOOT	DETECTOR LOOP REPLACEMENT

NOTE:
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.



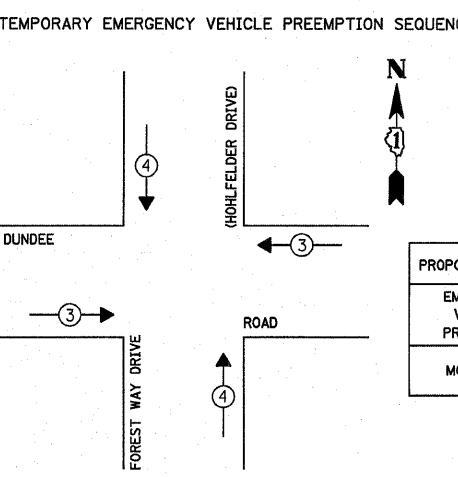
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETECTOR LOOPS AT:
L RT 68 (DUNDEE RD.)
& SKOKIE ROAD

SCALE 1" =
DATE
DESIGNED BY:
DRAWN BY:
CHECKED BY:

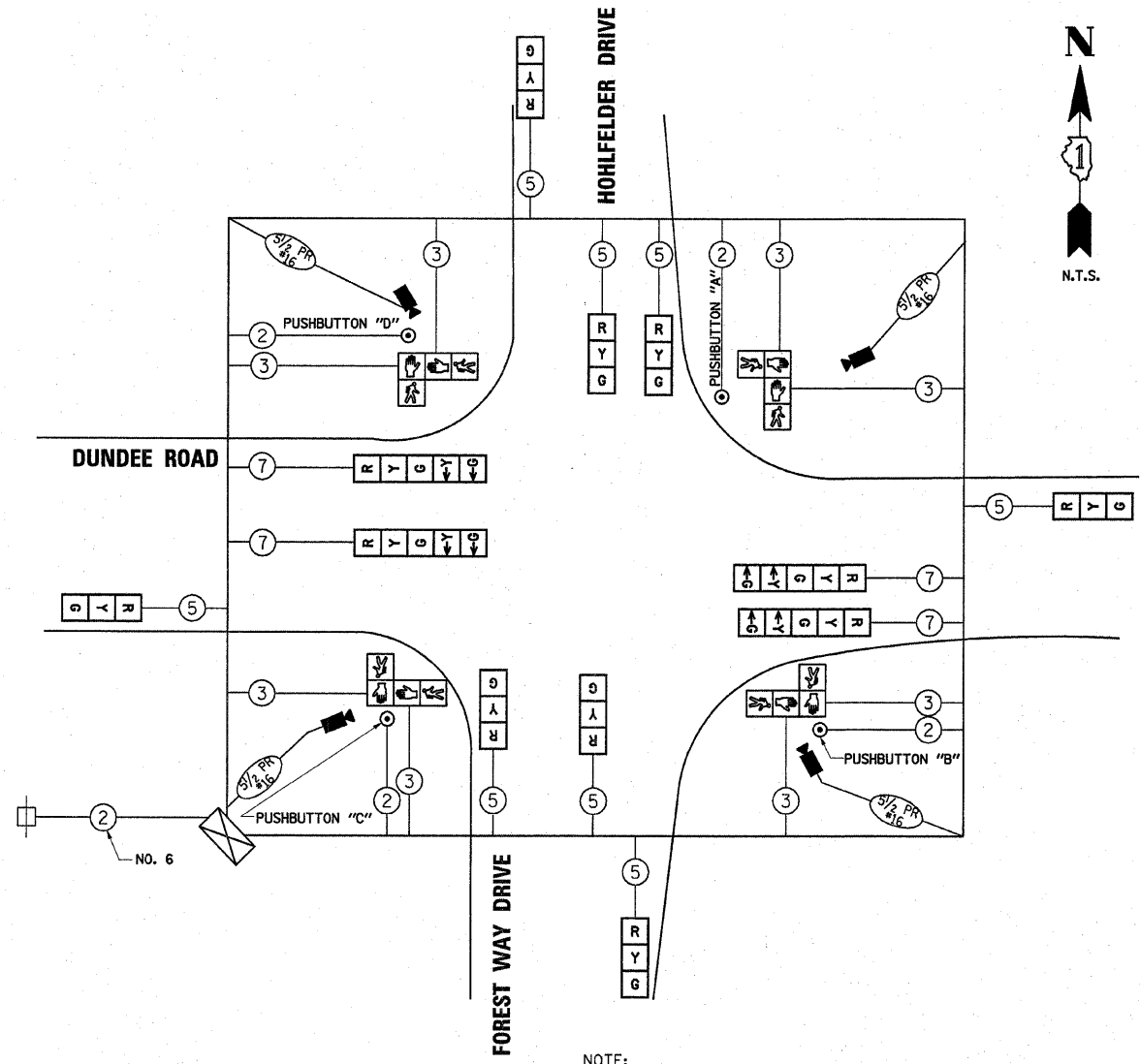


LEGEND

- DUAL ENTRY PHASE
- PROTECTED LEFT TURN PHASE
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE



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



NOTE:
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

TEMPORARY CABLE DIAGRAM LEGEND

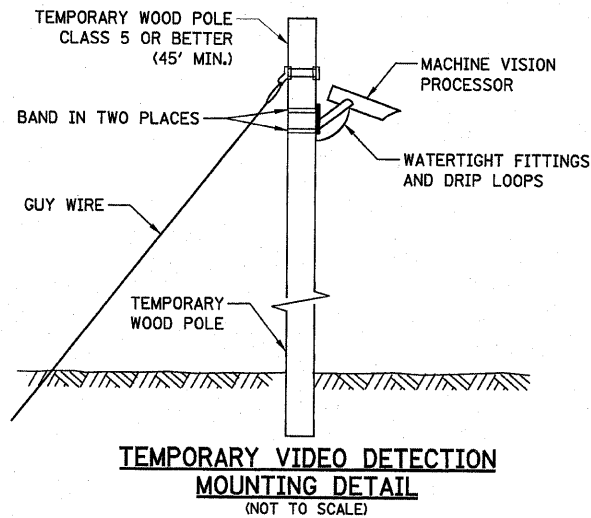
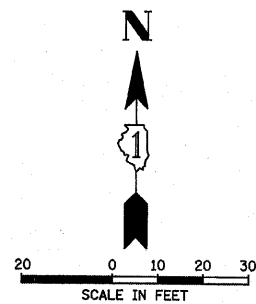
- TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- MACHINE VISION PROCESSOR

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	-	252	25	0.05	-
FLASHER				0.50	-
ENERGY COSTS TO:					TOTAL = 531.60

VILLAGE OF GLENCOE
 675 VILLAGE COURT
 GLENCOE, ILLINOIS 60022
 ENERGY SUPPLY: CONTACT: JEAN WILLS
 PHONE: (847) 816-5459
 COMPANY: COMED

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

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.



NOTE: EXISTING CONDUIT SHALL BE ABANDONED.

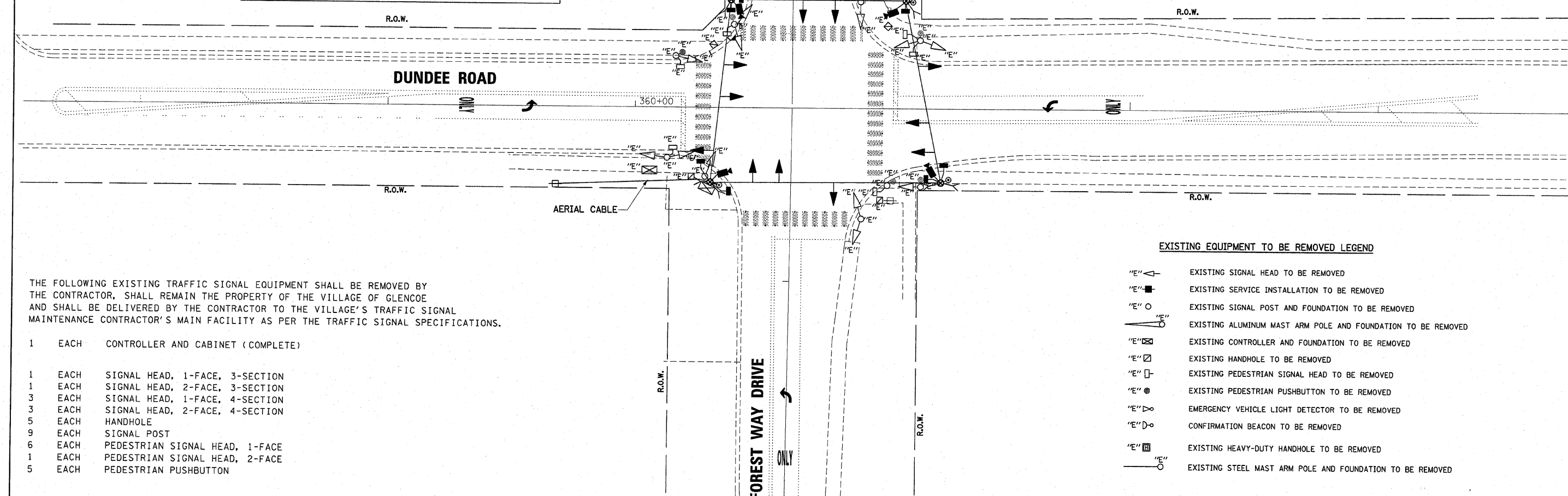
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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.

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

TEMPORARY TRAFFIC SIGNAL LEGEND

- ← TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ↖ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊙ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊕ TEMPORARY SERVICE INSTALLATION
- ⊞ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊟ MACHINE VISION PROCESSOR
- ⊠ PEDESTRIAN PUSHBUTTON DETECTOR
- ⊡ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊢ CONFIRMATION BEACON
- ⊣ VEHICLE DETECTOR, INDUCTION LOOP
- ⊤ UNIT DUCT
- ⊥ COMMON TRENCH
- ⊦ G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- ⊧ HANDHOLE
- ⊨ HEAVY DUTY HANDHOLE



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE VILLAGE OF GLENCOE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE VILLAGE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 3 EACH SIGNAL HEAD, 1-FACE, 4-SECTION
- 3 EACH SIGNAL HEAD, 2-FACE, 4-SECTION
- 5 EACH HANDHOLE
- 9 EACH SIGNAL POST
- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 5 EACH PEDESTRIAN PUSHBUTTON

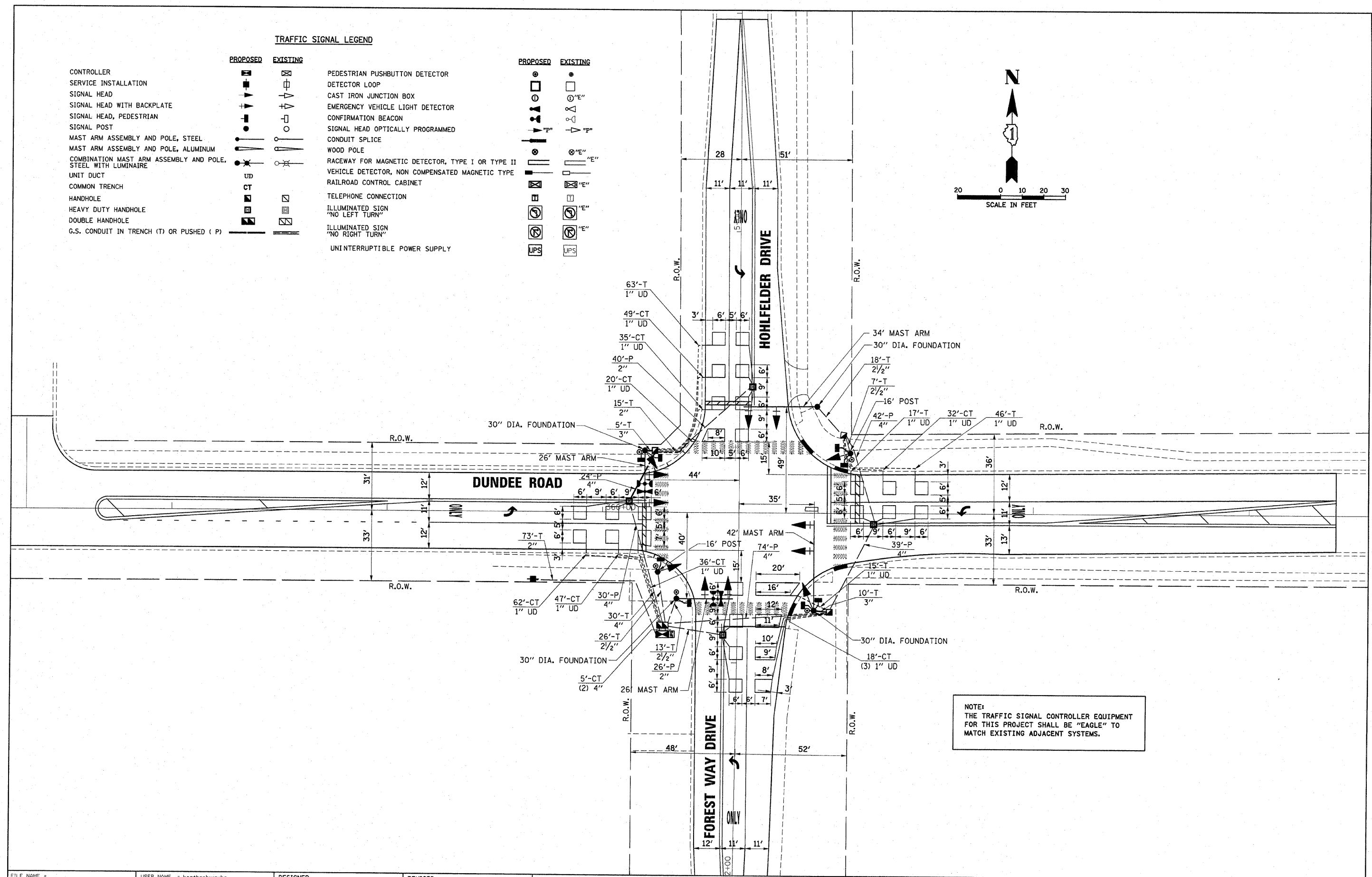
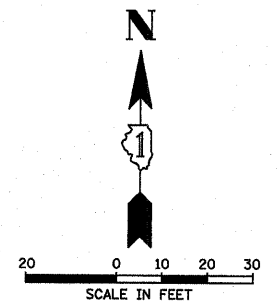
EXISTING EQUIPMENT TO BE REMOVED LEGEND

- "E" ← EXISTING SIGNAL HEAD TO BE REMOVED
- "E" ⊕ EXISTING SERVICE INSTALLATION TO BE REMOVED
- "E" ⊙ EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- "E" ⊠ EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E" ⊡ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E" ⊢ EXISTING HANDHOLE TO BE REMOVED
- "E" ⊣ EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- "E" ⊤ EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- "E" ⊡ EXISTING EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- "E" ⊢ EXISTING CONFIRMATION BEACON TO BE REMOVED
- "E" ⊣ EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- "E" ⊤ EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

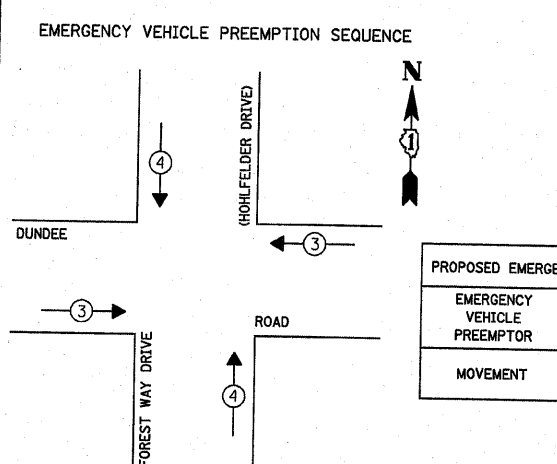
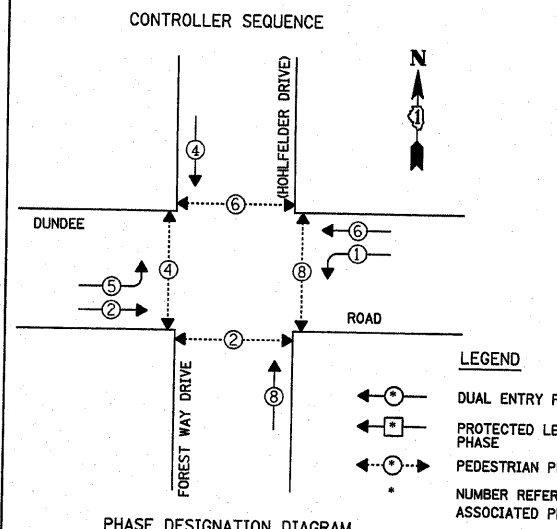
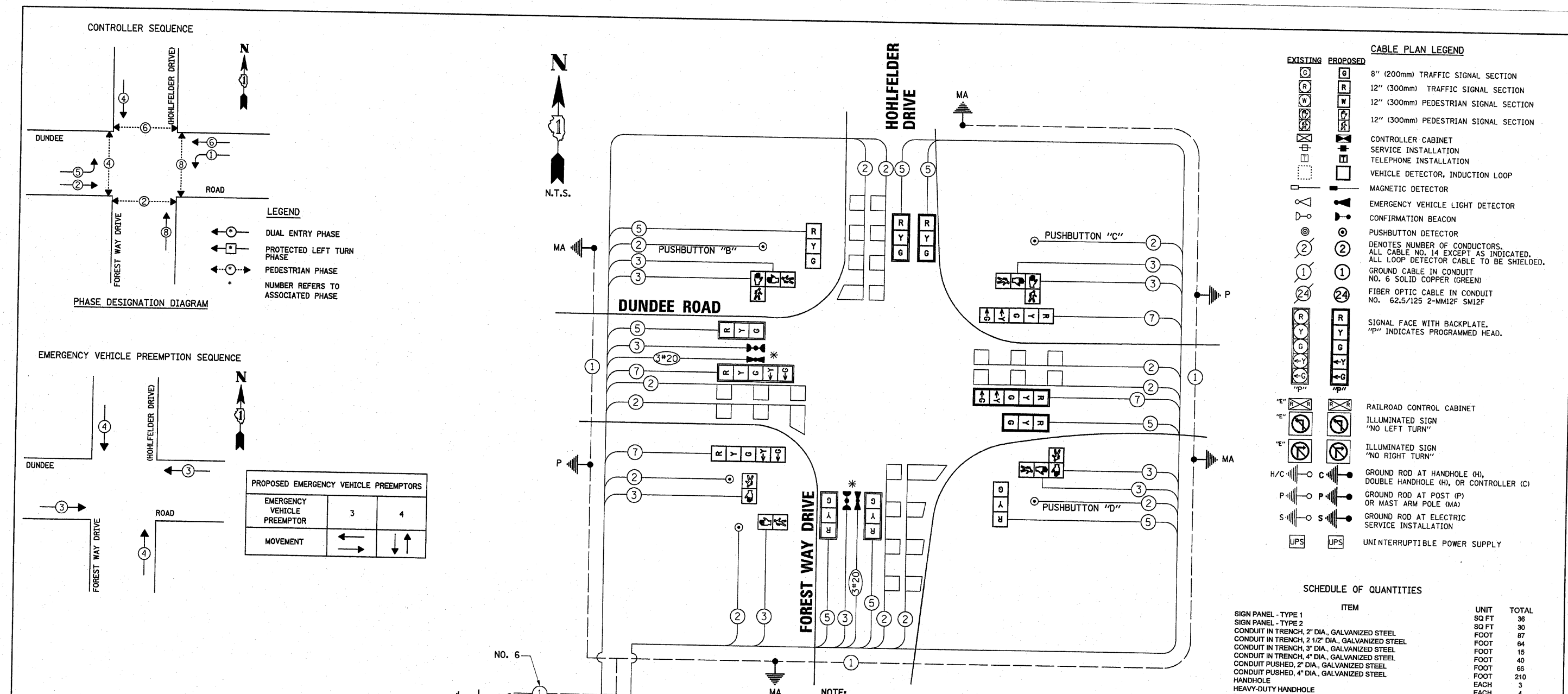
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PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 60814							
PLOT DATE = 10/5/2007	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER			PEDESTRIAN PUSHBUTTON DETECTOR		
SERVICE INSTALLATION			DETECTOR LOOP		
SIGNAL HEAD			CAST IRON JUNCTION BOX		
SIGNAL HEAD WITH BACKPLATE			EMERGENCY VEHICLE LIGHT DETECTOR		
SIGNAL HEAD, PEDESTRIAN			CONFIRMATION BEACON		
SIGNAL POST			SIGNAL HEAD OPTICALLY PROGRAMMED		
MAST ARM ASSEMBLY AND POLE, STEEL			CONDUIT SPLICE		
MAST ARM ASSEMBLY AND POLE, ALUMINUM			WOOD POLE		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE			RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
STEEL WITH LUMINAIRE			VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
UNIT DUCT			RAILROAD CONTROL CABINET		
COMMON TRENCH			TELEPHONE CONNECTION		
HANDHOLE			ILLUMINATED SIGN "NO LEFT TURN"		
HEAVY DUTY HANDHOLE			ILLUMINATED SIGN "NO RIGHT TURN"		
DOUBLE HANDHOLE			UNINTERRUPTIBLE POWER SUPPLY		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)					



FILE NAME =	USER NAME = kanthapixybc	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN DUNDEE RD. AT FOREST WAY DR.	F.A.U./F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



LEGEND

- ◀ ○ ▶ DUAL ENTRY PHASE
- ◀ □ ▶ PROTECTED LEFT TURN PHASE
- ◀ ○ ▶ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

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 INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		2 DENOTES NUMBER OF CONDUCTORS.
		ALL CABLE NO. 14 EXCEPT AS INDICATED.
		ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		1 GROUND CABLE IN CONDUIT
		NO. 6 SOLID COPPER (GREEN)
		24 FIBER OPTIC CABLE IN CONDUIT
		NO. 62.5/125 2-MM12F SM12F
		SIGNAL FACE WITH BACKPLATE.
		"P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN "NO LEFT TURN"
		ILLUMINATED SIGN "NO RIGHT TURN"
H/C		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
UPS		UNINTERRUPTIBLE POWER SUPPLY

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	36
SIGN PANEL - TYPE 2	SQ FT	30
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	87
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	64
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	15
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	40
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	66
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	210
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	362
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	560
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1397
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1262
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	626
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	904
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	92
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	47
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	949
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	5
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
REOPTIMIZE SIGNAL SYSTEM - LEVEL II	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	FOOT	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	480
* ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	306

NOTE:
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE	INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102.00	
(YELLOW)	12	135	25	0.25	75.00	
(GREEN)	12	135	15	0.25	45.00	
ARROW	8	135	12	0.10	9.60	
PED. SIGNAL	8	90	25	1.00	200.00	
CONTROLLER	1	100	100	1.00	100.00	
ILLUM. SIGN	-	252	25	0.05	-	
FLASHER	-	-	-	-	-	
ENERGY COSTS TO:				0.50	-	
TOTAL =					531.60	

VILLAGE OF GLENCOE
 675 VILLAGE COURT
 GLENCOE, ILLINOIS 60022
 ENERGY SUPPLY: CONTACT: JEAN WILLS
 PHONE: (847) 816-5459
 COMPANY: COMED

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

* 100% COST OF MARKED ITEMS TO VILLAGE OF GLENCOE

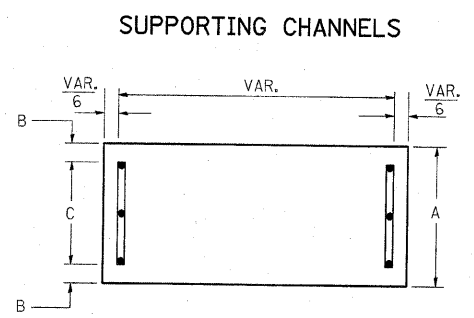
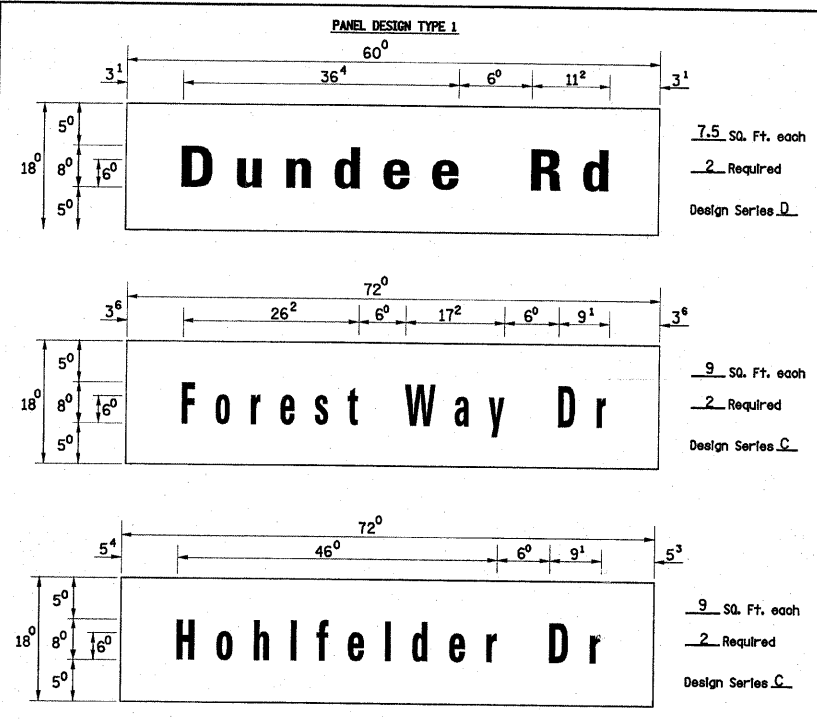
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

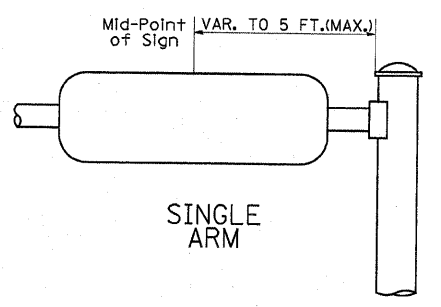
SCHEDULE OF QUANTITIES CABLE PLAN AND PHASE DESIGNATION DIAGRAM DUNDEE RD. AT FOREST WAY DR.

F.A.U./E.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60814	

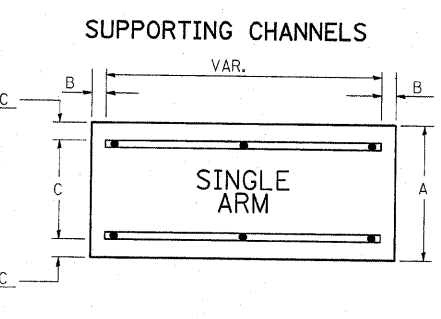
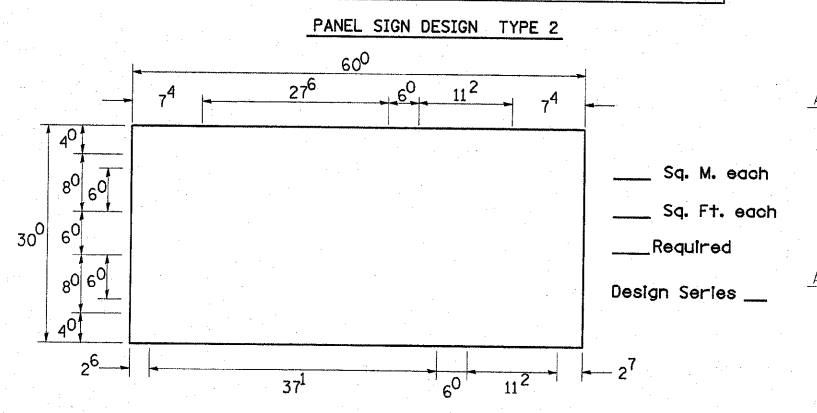
SCALE: SHEET NO. OF SHEETS STA. TO STA.



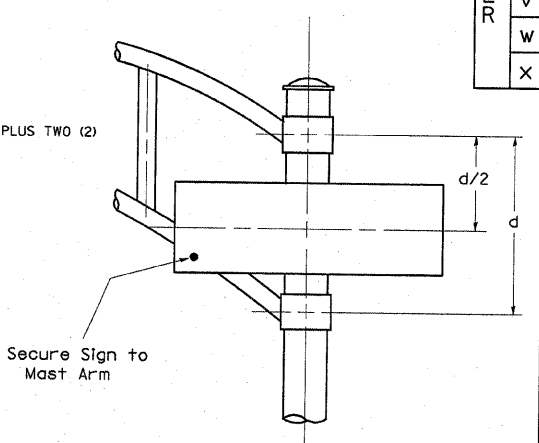
A	B	C
18"	2"	14"



NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS



A	B	C
18"	2"	12"
30"	2"	22"



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

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

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

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

SERIES	SECOND LETTER															
	a c d e		b h i k l		f w		J		s t		v y		x		z	
	g o q	m n p r u														
ad h g l j	1 ⁶ 1 ⁷	2 ² 2 ⁴	1 ⁶ 1 ⁷	1 ² 1 ⁴	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	
l m n q u																
b f k o p s	1 ² 1 ⁴	1 ⁶ 1 ⁷	1 ¹ 1 ²	0 ⁵ 0 ⁶	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	
c e	1 ² 1 ⁴	1 ⁶ 1 ⁷	1 ² 1 ⁴	0 ⁶ 1 ⁰	1 ² 1 ⁴	1 ² 1 ⁴	1 ² 1 ⁴	1 ² 1 ⁴	1 ² 1 ⁴	1 ² 1 ⁴	1 ² 1 ⁴	1 ² 1 ⁴	1 ² 1 ⁴	1 ² 1 ⁴	1 ² 1 ⁴	
r	0 ⁶ 1 ⁰	1 ² 1 ⁴	0 ⁶ 1 ⁰	0 ³ 0 ³	0 ⁵ 0 ⁶	0 ⁵ 0 ⁶	0 ⁵ 0 ⁶	0 ⁵ 0 ⁶	0 ⁵ 0 ⁶	0 ⁵ 0 ⁶	0 ⁵ 0 ⁶	0 ⁵ 0 ⁶	0 ⁵ 0 ⁶	0 ⁵ 0 ⁶	0 ⁵ 0 ⁶	
t z	1 ² 1 ⁴	1 ⁶ 1 ⁷	1 ² 1 ⁴	0 ⁶ 1 ⁰	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	
v y	1 ¹ 1 ²	1 ⁴ 1 ⁵	1 ¹ 1 ²	0 ⁵ 0 ⁶	0 ⁶ 1 ⁰	0 ⁶ 1 ⁰	0 ⁶ 1 ⁰	0 ⁶ 1 ⁰	0 ⁶ 1 ⁰	0 ⁶ 1 ⁰	0 ⁶ 1 ⁰	0 ⁶ 1 ⁰	0 ⁶ 1 ⁰	0 ⁶ 1 ⁰	0 ⁶ 1 ⁰	
w	1 ¹ 1 ²	1 ⁴ 1 ⁵	1 ¹ 1 ²	0 ⁵ 0 ⁶	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	
x	1 ² 1 ⁴	1 ⁶ 1 ⁷	1 ¹ 1 ²	0 ⁵ 0 ⁶	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	1 ¹ 1 ²	

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

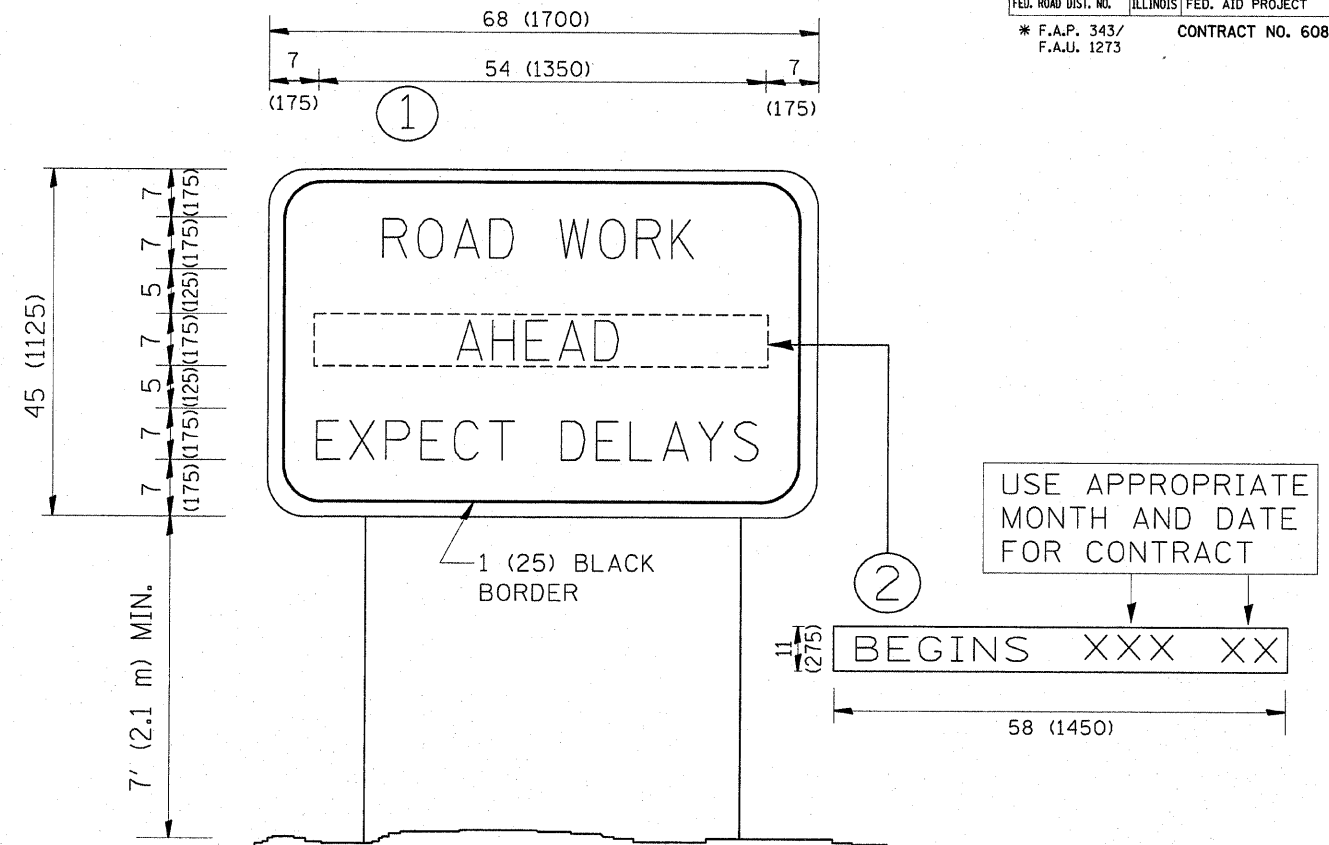
SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 ⁶ 1 ⁷	1 ⁶ 1 ⁷	1 ⁴ 1 ⁵	1 ² 1 ⁴	1 ⁵ 1 ²	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵	1 ⁴ 1 ⁵
1	2 ⁰ 2 ¹	2 ⁰ 2 ¹	2 ⁰ 2 ¹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

EXAMPLE, 2³ DENOTES 3/8

UPPER AND LOWER CASE
LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				LETTERS	6 INCH LOWER CASE LETTERS	
	SERIES		SER								

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	38 RS-4	COOK	36	36
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* F.A.P. 343/ F.A.U. 1273	CONTRACT NO. 60814			



NOTES:

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

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE

DRAWN BY DESIGN
CHECKED BY

TC22