

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 350 IL 50 (CICERO AVE)
SECTION: 101N-2(12)
AT VOLLMER ROAD

TRAFFIC SIGNAL MODERNIZATION
& CHANNELIZATION

PROJECT: ACHSIP-0350(042)
COOK COUNTY
C-91-135-13

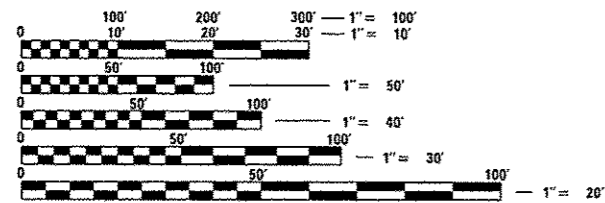
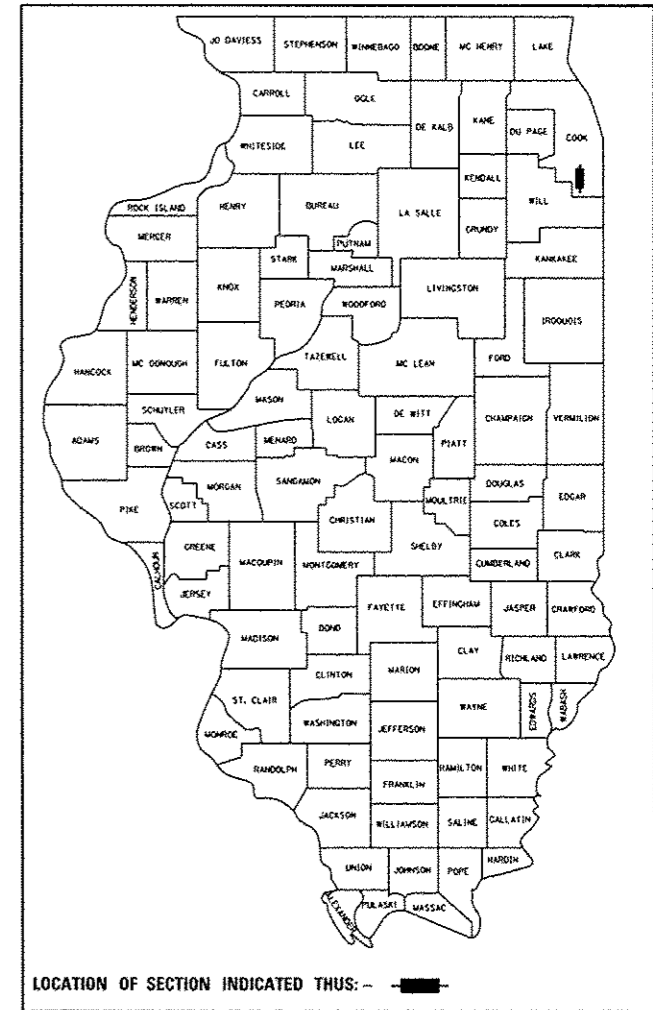
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	1
		ILLINOIS	CONTRACT NO. 60V99	

D-91-135-13

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN
VILLAGE OF MATTESON

FUNCTIONAL CLASSIFICATION
OTHER PRINCIPAL ARTERIAL
IL RTE 50: 2011 ADT=16,600 POSTED SPEED=50 MPH
VOLLMER RD: 2010 ADT=23,400 POSTED SPEED=45 MPH

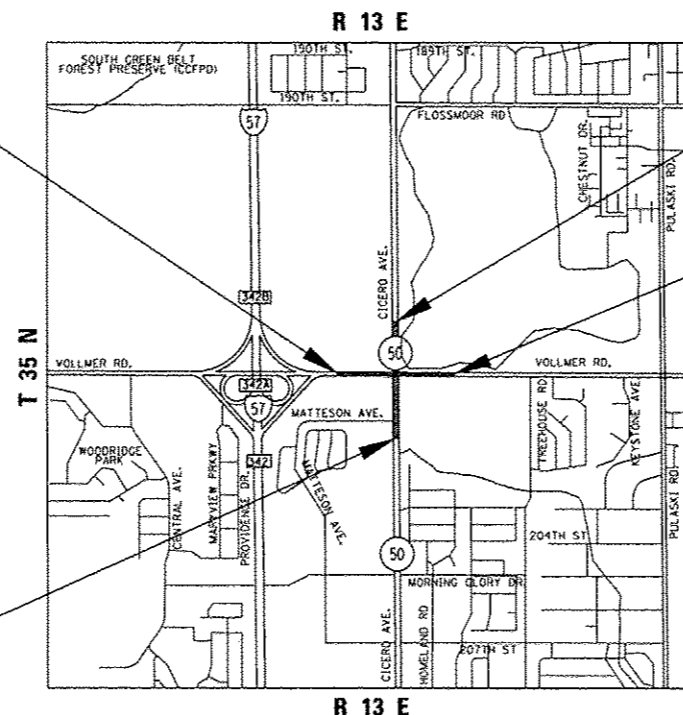


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT BEGINS
STA. 194 + 00

PROJECT BEGINS
STA. 493 + 28



PROJECT ENDS
STA. 505 + 38

PROJECT ENDS
STA. 206 + 00

LOCATION MAP
N.T.S.



LICENSE EXPIRATION DATE 09/2015
SIGNATURE DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED June 25 20 14
John Kertanegara
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Oct 17 20 14
John D. Baranzelli, PE
ENGINEER OF DESIGN AND ENVIRONMENT
Oct 17 20 14
Omer Osman, PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT MANAGER: JENPAI CHANG (IDOT) (847) 705-4432
PROJECT ENGINEER: BEHZAD AMINI (DBS) (312) 857-1006
CONTRACT NO. 60V99

RICH TOWNSHIP
GROSS LENGTH = 2410 FT. = 0.46 MILE
NET LENGTH = 2410 FT. = 0.46 MILE

DBS DB STERLIN CONSULTANTS, INC.
123 N. WACKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1000 FAX (312)857-1056

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE STANDARDS

SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION
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13-14	EXISTING AND PROPOSED TYPICAL SECTIONS	602001-02	CATCH BASIN TYPE A
15	SCHEDULE OF QUANTITIES	602601-03	PRECAST REINFORCED CONCRETE SLAB TOP
16	ALIGNMENT, TIES AND BENCHMARKS	604001-04	FRAME AND LIDS TYPE 1
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18	ROADWAY PLAN AND PROFILE - IL RTE. 50	606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
19	ROADWAY PLAN AND PROFILE - VOLLMER ROAD	606006-02	OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B-6.24 (8-15.60)
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29	DRAINAGE PLAN AND PROFILE - IL RTE. 50	701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN
30	DRAINAGE PLAN AND PROFILE - VOLLMER ROAD	701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
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52	(BD-01) DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER > 15' (4.5 m)	857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
53	(BD-02) DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB < 15' (4.5 m)	862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
54	(BD-03) OUTLET FOR CONCRETE CURB AND GUTTER	873001-02	TRAFFIC SIGNAL GROUNDING & BOUNDING
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57	(BD-22) PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	880001-01	SPAN WIRE MOUNTED SIGNALS AND BEACON INSTALLATION
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62	(TC-14) TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		
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64	(TC-22) ARTERIAL ROAD INFORMATION SIGN		
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- THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- THE CONTRACTOR SHALL NOTIFY THE IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL CONTACT PATRICE HARRIS AREA TRAFFIC FIELD ENGINEER, AT (708) 597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ADJUTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL REPLACE ALL THE PAVEMENT MARKINGS AS LAID OUT IN THE FIELD, AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- ALL PIPE UNDERDRAINS SHALL BE PLACED AT A DEPTH OF 30" BELOW THE TOP OF PROPOSED PAVEMENT OR AS DEEP AS POSSIBLE AND IN ACCORDANCE WITH CHECK SHEET *19 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAINS ITEM.

TRAFFIC SIGNAL GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72-HOURS IN ADVANCE OF BEGINNING OF WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOO. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012 (REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND THE "MANUAL OF TEST PROCEDURES FOR MATERIALS".
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND COOK COUNTY.

FILE NAME = \$FILES\$

SHT_PLAN	USER NAME * \$USER\$	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * \$SCALE\$	DRAWN - DS/BFH	REVISED -		SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA. TO STA.	350	101N-2(12)	COOK	73
	PLOT DATE * \$DATE\$	CHECKED - BA	REVISED -							CONTRACT NO. 60V99	
		DATE - 1/2/14	REVISED -							ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				URBAN		0004	0021		
				90% FEDERAL ROADWAY	10% STATE	90% FEDERAL	10% STATE TRAF. SIGNALS		
20101000	TEMPORARY FENCE	Foot	120	120					
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	268	268					
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	268	268					
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	268	268					
20200100	EARTH EXCAVATION	CU YD	3,594	3,594					
20800150	TRENCH BACKFILL	CU YD	180	180					
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1,092	1,092					
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	450	450					
21400100	GRADING AND SHAPING DITCHES	FOOT	2,785	2,785					
25000210	SEEDING, CLASS 2A	ACRE	1.45	1.45					
25100630	EROSION CONTROL BLANKET	SQ YD	14,438	14,438					
28000305	TEMPORARY DITCH CHECKS	FOOT	150	150					
28000400	PERIMETER EROSION BARRIER	FOOT	4,508	4,508					
28000510	INLET FILTERS	EACH	27	27					
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	3,913	3,913					

FILE NAME * #FILES* SHT.PLAN	USER NAME * #USER*	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL ROUTE 50 AT VOLLMER ROAD			F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * #SCALE*	DRAWN - DS/BFH	REVISED -		350	101N-21121	COOK	73	3			
	PLOT DATE * #DATE*	CHECKED - BA	REVISED -		SCALE: N.T.S.	SHEET 1 OF 10 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 60V99				

Rev.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				URBAN				
				0004 90% FEDERAL 10% STATE ROADWAY	0021 90% FEDERAL 10% STATE TRAF. SIGNALS			
28100101	STONE RIPRAP, CLASS A1	SO YD	10	10				
28200200	FILTER FABRIC	SO YD	10	10				
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	2,112	2,112				
35102200	AGGREGATE BASE COURSE, TYPE B 10"	SO YD	139	139				
35501314	HOT-MIX ASPHALT BASE COURSE, 7 1/2"	SO YD	567	567				
35600706	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"	SO YD	1,545	1,545				
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	706	706				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	108	108				
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	107	107				
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	19	19				
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	12	12				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1,647	1,647				
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	194	194				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	723	723				

FILE NAME * #FILES* SHT_PLAN	USER NAME * #USER*	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL ROUTE 50 AT VOLLMER ROAD			F.A.P. RTE. 350	SECTION 101N-21121	COUNTY COOK	TOTAL SHEETS 73	SHEET NO. 4
	PLOT SCALE * #SCALE*	CHECKED - BA	REVISED -		SCALE: N.T.S.	SHEET 2 OF 10 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
	PLOT DATE * #DATE*	DATE - 7/2/14	REVISED -									

14

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE			
				0004	0021		
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE TRAF. SIGNALS		
44000100	PAVEMENT REMOVAL	SQ YD	1,960	1,960			
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	5,494	5,494			
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	74	74			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	6,631	6,631			
44000600	SIDEWALK REMOVAL	SQ FT	127	127			
44003100	MEDIAN REMOVAL	SQ FT	12,724	12,724			
44004250	PAVED SHOULDER REMOVAL	SQ YD	374	374			
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	275	275			
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	165	165			
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	110	110			
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	156	156			
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	29	29			
48203022	HOT-MIX ASPHALT SHOULDERS, 6 1/4"	SQ YD	255	255			
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	13	13			

FILE NAME: *FILES* SHT_PLAN	USER NAME: *USER*	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL ROUTE 50 AT VOLLMER ROAD			F.A.P. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE: *SCALE*	DRAWN - DS/BFH	REVISED -		SCALE: N.T.S.	SHEET 3 OF 10 SHEETS	STA.	TO STA.	350	101N-2(12)	COOK	73	5
	PLOT DATE: *DATE*	CHECKED - BA	REVISED -		CONTRACT NO. 60V99								
		DATE - 7/2/14	REVISED -		ILLINOIS FED. AID PROJECT								

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				0004	0021					
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE TRAF. SIGNALS					
55100500	STORM SEWER REMOVAL 12"	FOOT	185	185						
55100900	STORM SEWER REMOVAL 18"	FOOT	315	315						
60107700	PIPE UNDERDRAINS 6"	FOOT	398	398						
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1						
60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3	3						
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	14	14						
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	7	7						
60500050	REMOVING CATCH BASINS	EACH	4	4						
60600095	CLASS 5(CONCRETE (OUTLET)	CU YD	18	18						
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	4,627	4,627						
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	201	201						
60608572	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.18	FOOT	892	892						
60618210	HOT-MIX ASPHALT MEDIAN SURFACE, 4 INCH	50 FT	1,549	1,549						
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	50 FT	5,253	5,253						

△ SPECIALTY ITEM

FILE NAME = #FILE# SHT_PLAN	USER NAME = #USER#	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	CHECKED - BA	REVISED -		350	101N-21121	COOK	73	6			
	PLOT DATE = #DATE#	DATE - 7/2/14	REVISED -		SCALE: N.T.S.	SHEET 4 OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 60V99			
									ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				URBAN		0004	0021		
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE TRAF. SIGNALS				
60622400	CONCRETE MEDIAN, TYPE SM-6.06	SQ FT	7,190	7,190					
60625610	ISLAND PAVEMENT (8")	SQ YD	13	13					
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	75	75					
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1					
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14	14					
67100100	MOBILIZATION	L SUM	1	1					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,468	2,468					
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	218	218					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4,935	4,935					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2,077	2,077					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	160	160					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	469	469					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3,039	3,039					

* SPECIALTY ITEM

FILE NAME * #FILES* SMT_PLAN	USER NAME * #USER*	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL ROUTE 50 AT VOLLMER ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE * #SCALE*	DRAWN - DS/BFH	REVISED -					350	101N-2112)	COOK	73	7		
	PLOT DATE * #DATE*	CHECKED - BA	REVISED -					SCALE: N.T.S.			SHEET 5 OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 60V99
	DATE - 7/2/14	DATE -	REVISED -					ILLINOIS FED. AID PROJECT						

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE							
				0004	0021						
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE TRAF, SIGNALS						
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4,627	4,627							
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	18	18							
Δ 72000100	SIGN PANEL - TYPE 1	SQ FT	37.5	22.5	15						
Δ 72000200	SIGN PANEL - TYPE 2	SQ FT	25		25						
Δ 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2							
Δ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	26	26							
Δ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	364	364							
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	9,854	9,854							
Δ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,968	2,968							
Δ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	433	433							
Δ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	179	179							
Δ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	112	112							
78300100	PAVEMENT MARKING REMOVAL	SQ FT	4,269	4,269							
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	112	112							

Δ SPECIALTY ITEM

FILE NAME : #FILE# SHT_PLAN	USER NAME : #USER#	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL ROUTE 50 AT VOLLMER ROAD			F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE : #SCALE#	DRAWN - DS/BFH	REVISED -		350	10IN-2(12)	COOK	73	8			
	PLOT DATE : #DATE#	CHECKED - BA	REVISED -		SCALE: N.T.S.	SHEET 6	OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 60V99		
		DATE - 7/2/14	REVISED -							ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				0004	0021						
				90% FEDERAL 10% STATE ROADWAY	90% FEDERAL 10% STATE TRAF. SIGNALS						
△ 80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1						
△ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,270		1,270						
△ 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	39		39						
△ 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	91		91						
△ 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	467		467						
△ 81400100	HANDHOLE	EACH	3		3						
△ 81400200	HEAVY-DUTY HANDHOLE	EACH	7		7						
△ 81400300	DOUBLE HANDHOLE	EACH	2		2						
△ 85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1						
△ 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	230		230						
△ 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	235		235						
△ 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,725		1,725						
△ 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,975		1,975						
△ 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,550		2,550						

△ SPECIALTY ITEM

Rev.

FILE NAME - #FILE# SHT. PLAN	USER NAME - #USER#	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL ROUTE 50 AT VOLLMER ROAD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE - #SCALE#	CHECKED - BA	REVISED -		350	101N-21(2)	COOK	66	9			
	PLOT DATE - #DATE#	DATE - 4/21/14	REVISED -		SCALE: N.T.S. SHEET 7 OF 10 SHEETS STA. TO STA.			CONTRACT NO. 60V99		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				URBAN			
				0004 90% FEDERAL 10% STATE ROADWAY	0021 90% FEDERAL 10% STATE TRAF. SIGNALS		
△ 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2		
△ 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12		12		
△ 88500100	INDUCTIVE LOOP DETECTOR	EACH	9		9		
△ 88600100	DETECTOR LOOP, TYPE I	FOOT	975		975		
△ 88800100	PEDESTRIAN PUSH-BUTTON	EACH	2		2		
△ 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1		
△ 89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2		2		
△ 89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1		1		
△ 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1		
△ 89502380	REMOVE EXISTING HANDHOLE	EACH	11		11		
△ 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1		
△ 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9		
△ X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20-3/C	FOOT	360		360		
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1			

△ SPECIALTY ITEM

Rev.

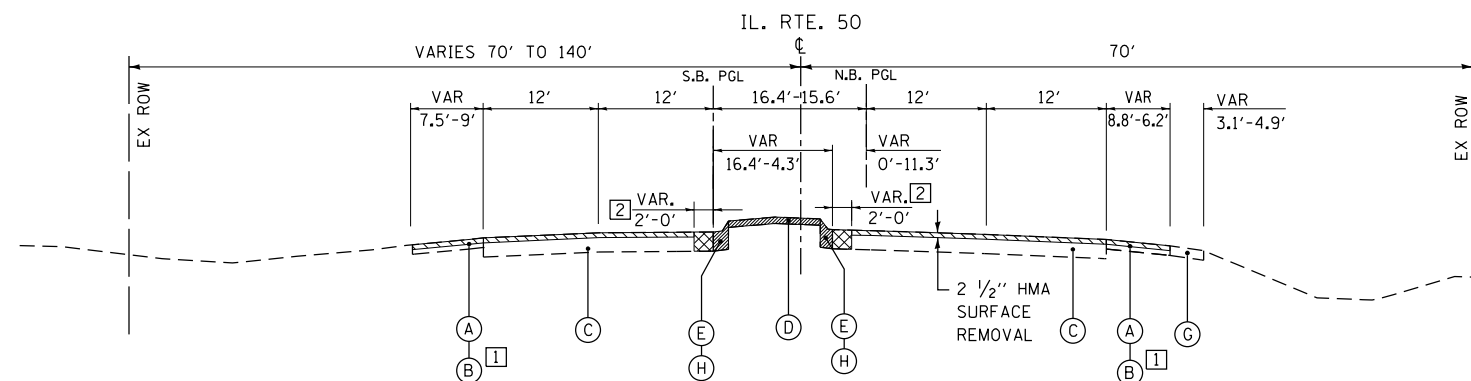
SHT_PLAN	USER NAME * #USER*	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * #SCALE*	DRAWN - DS/BFH	REVISED -		IL ROUTE 50 AT VOLLMER ROAD			350	101N-2(12)	COOK	73	11
	PLOT DATE * #DATE*	CHECKED - BA	REVISED -		SCALE: N.T.S. SHEET 9 OF 10 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT CONTRACT NO. 60V99				
		DATE - 7/2/14	REVISED -									

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				URBAN		0004 90% FEDERAL 10% STATE ROADWAY	0021 90% FEDERAL 10% STATE TRAF. SIGNALS		
X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11,005			11,005			
X4402800	ISLAND PAVEMENT REMOVAL	SO YD	83			83			
X6020094	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	2			2			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1			1			
Δ X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1				1		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1			1			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103			103			
Z0037200	PAVEMENT GRINDING	SQ YD	5,974			5,974			
Z0062456	TEMPORARY PAVEMENT	SQ YD	741			741			
Δ Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1				1		
X0323261	TEMPORARY SEDIMENT BASIN	EACH	1			1			
NP • Z0018500	CLEANING EXISTING DRAINAGE STRUCTURES	EACH	5			5			
NP X0327870	STORM SEWERS, CLASS A, TYPE 2, 30"x15"	FOOT	310			310			

• NON-PARTICIPATION ITEM
Δ SPECIALTY ITEM

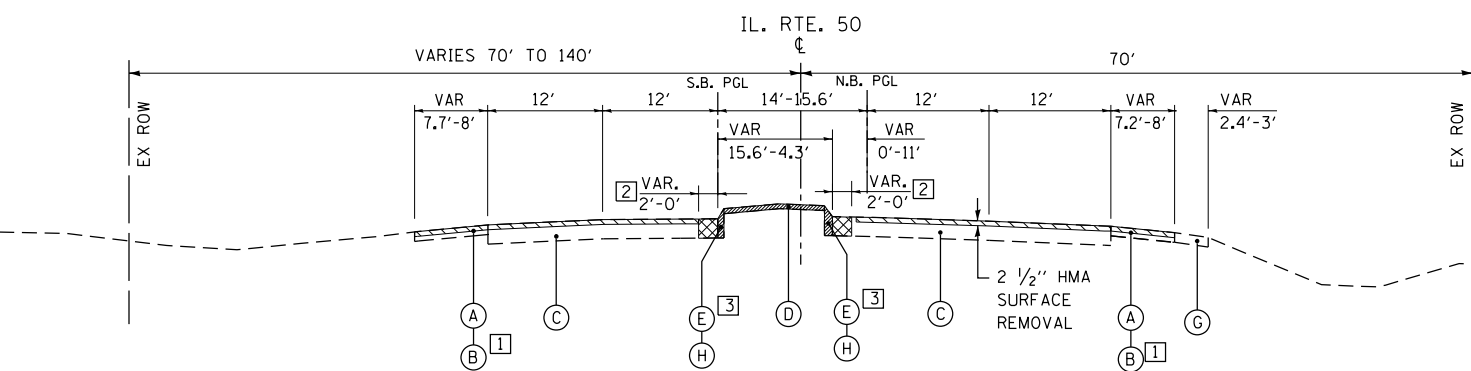
NP=100% State (Non-participating)

FILE NAME * FILES SHT_PLAN	USER NAME * #USERS	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE * #SCALE#	DRAWN - DS/BFH	REVISED -		SCALE: N.T.S.	SHEET 10 OF 10 SHEETS	STA. TO STA.	350	101N-2(12)	COOK	73	12	
	PLOT DATE * #DATE#	CHECKED - BA	REVISED -							CONTRACT NO. 60V99			
		DATE - 1/2/14	REVISED -							ILLINOIS FED. AID PROJECT			



**EXISTING TYPICAL SECTION
IL-50 (CICERO AVE)**

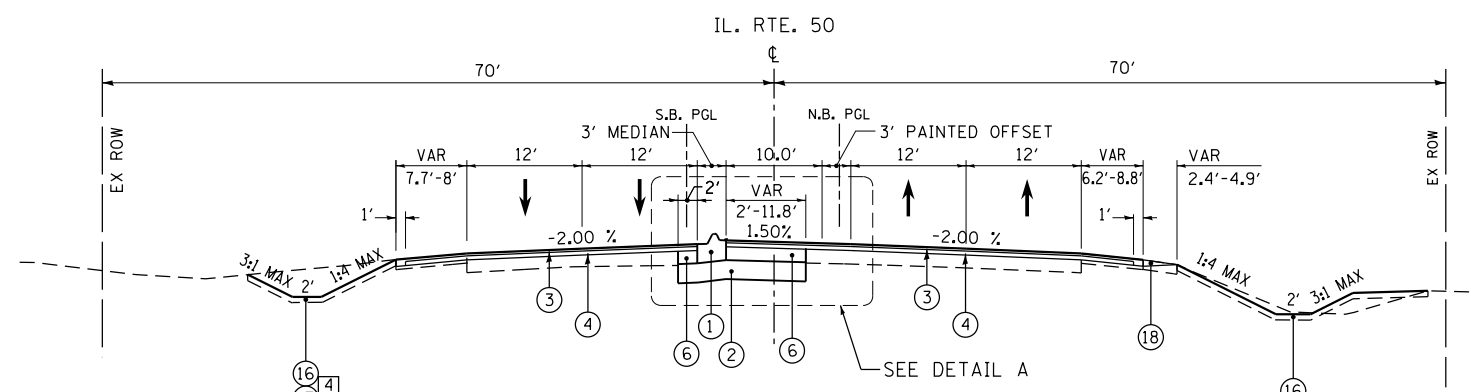
STA. 493+28 TO STA. 496+37



**EXISTING TYPICAL SECTION
IL-50 (CICERO AVE)**

STA. 496+37 TO STA. 504+97.6

NOTE: THE CONTRACTOR SHALL MILL PRIOR TO PATCHING.



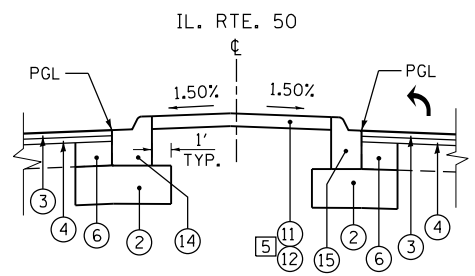
**PROPOSED TYPICAL SECTION
IL-50 (CICERO AVE)**

STA. 493+28 TO STA. 505+28

- NOTE :**
- EXISTING PAVEMENT ON IL RT 50 IS PCC WITH HMA.
 - EXISTING LANDSCAPED MEDIAN: STA. 493+28 TO STA. 497+24.30
EXISTING CONCRETE MEDIAN SURFACE: STA. 497+24.30 TO STA. 499+49.75;
STA. 500+50.24 TO STA. 505+38.0.

LEGEND:

- 2 1/2" HMA SURFACE REMOVAL
- MEDIAN REMOVAL, SEE PLANS FOR LOCATIONS
- PAVEMENT REMOVAL, SEE PLANS FOR LOCATIONS



DETAIL A

STA. 493+28 TO STA. 494+73
STA. 504+68.8 TO STA. 505+38

EXISTING LEGEND

- (A) EXISTING HMA SHOULDER 10 3/4"
- (B) EXISTING B-6.24 CURB AND GUTTER
- (C) EXISTING PCC PAVEMENT, 10" WITH HMA, 2 1/2"
- (D) EXISTING MEDIAN SURFACE (SEE NOTE 2)
- (E) EXISTING COMBINATION CURB AND GUTTER B-6.12
- (F) EXISTING M-4 CURB AND GUTTER
- (G) EXISTING GRAVEL SHOULDER
- (H) EXISTING BARRIER CURB

PROPOSED LEGEND

- (1) PROPOSED CONCRETE MEDIAN, TYPE SM-6.06 (MONOLITHIC POURED MEDIAN)
- (2) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (3) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- (4) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (5) PROPOSED HOT-MIX ASPHALT BASE COURSE, 7 1/2"
- (6) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"
- (7) PROPOSED HOT-MIX ASPHALT SHOULDER, 6 1/4"
- (8) PROPOSED AGGREGATE SHOULDER, TYPE B 6"
- (9) PROPOSED TOPSOIL EXCAVATION AND PLACEMENT, 6"
- (10) PROPOSED PIPE UNDERDRAINS, 6"
- (11) PROPOSED LANDSCAPE MEDIAN (SEE LANDSCAPING PLANS FOR DETAILS)
- (12) PROPOSED CONCRETE MEDIAN SURFACE, 4 INCH
- (13) PROPOSED HOT-MIX ASPHALT MEDIAN SURFACE, 4 INCH
- (14) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.18
- (15) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12
- (16) PROPOSED SEEDING CLASS 2A
- (17) PROPOSED GRADING AND SHAPING DITCHES
- (18) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B

- [1] EXISTING B-6.24 CURB & GUTTER STA. 497+46.7 TO STA. 500+95.1
- [2] SEE REMOVAL PLANS FOR LOCATIONS
- [3] EXISTING B-6.12 CURB & GUTTER STA. 493+28 TO STA. 497+22.62
- [4] SEEDING CLASS 2A GRADING AND SHAPING DITCHES STA. 495+50 TO STA. 498+50 LT; STA. 500+60 TO STA. 505+38 LT; STA. 500+60 TO STA. 505+38 RT
- [5] LANDSCAPED MEDIAN STA. 493+28 TO STA. 494+73; CONCRETE MEDIAN SURFACE, 4 INCH STA. 504+68.8 TO STA. 505+38

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	PERCENT AIR VOIDS AT Ndes	
HOT-MIX ASPHALT PAVEMENT WIDENING & RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm), 1 3/4"	4% @ 90 GYR.	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 GYR.	QC/OA
HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2" (HMA BINDER IL 19.0)	4% @ 70 GYR.	QC/OA
HOT-MIX ASPHALT BASE COURSE, 7 1/2" (HMA BINDER IL 19.0)	4% @ 70 GYR.	QC/OA
HOT-MIX ASPHALT SHOULDERS, 8"		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm), 1 3/4"	4% @ 90 GYR.	OCP
HOT-MIX ASPHALT BASE COURSE, 6 1/4" (HMA BINDER IL-19.0)	4% @ 70 GYR.	QC/OA
SHARED-USE PATH		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 1 1/2"	4% @ 50 GYR.	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/2"	4% @ 50 GYR.	QC/OA
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR.	QC/OA
TEMPORARY PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 8"	4% @ 50 GYR.	QC/OA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (OCP); PAY FOR PERFORMANCE (PPF)		

- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SO YD/IN
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
- QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

FILE NAME = \$FILEL\$

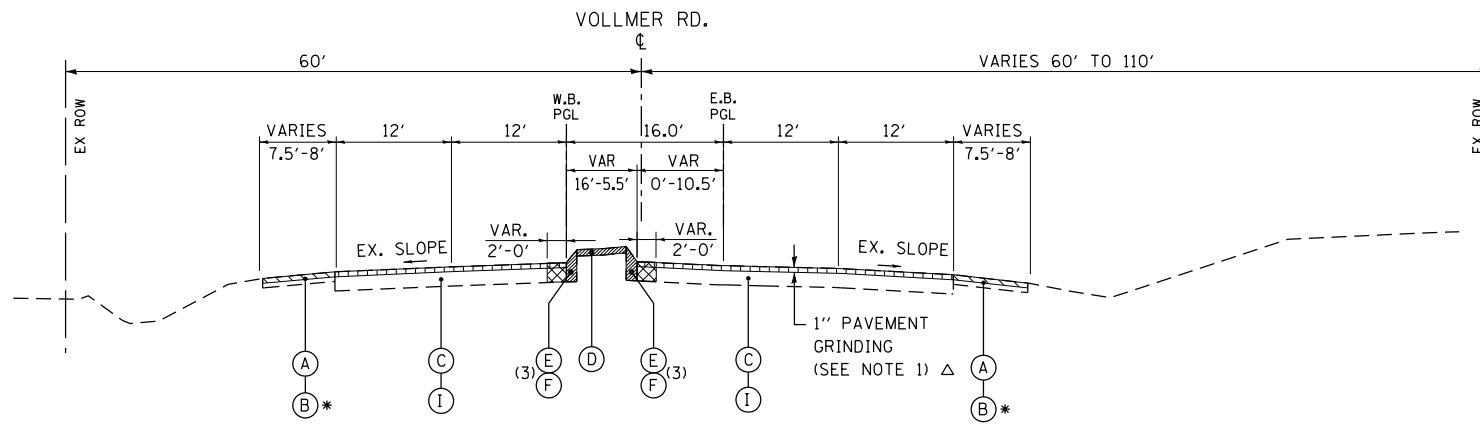
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DRAWN - DS/BFH	REVISIONS -	
PLOT SCALE = \$SCALE\$	CHECKED - BA	REVISIONS -
PLOT DATE = \$DATE\$	DATE - 7/2/14	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTIONS
IL ROUTE 50 AT VOLLMER ROAD**

SCALE: 1"=10' SHEET 1 OF 2 SHEETS STA. TO STA.

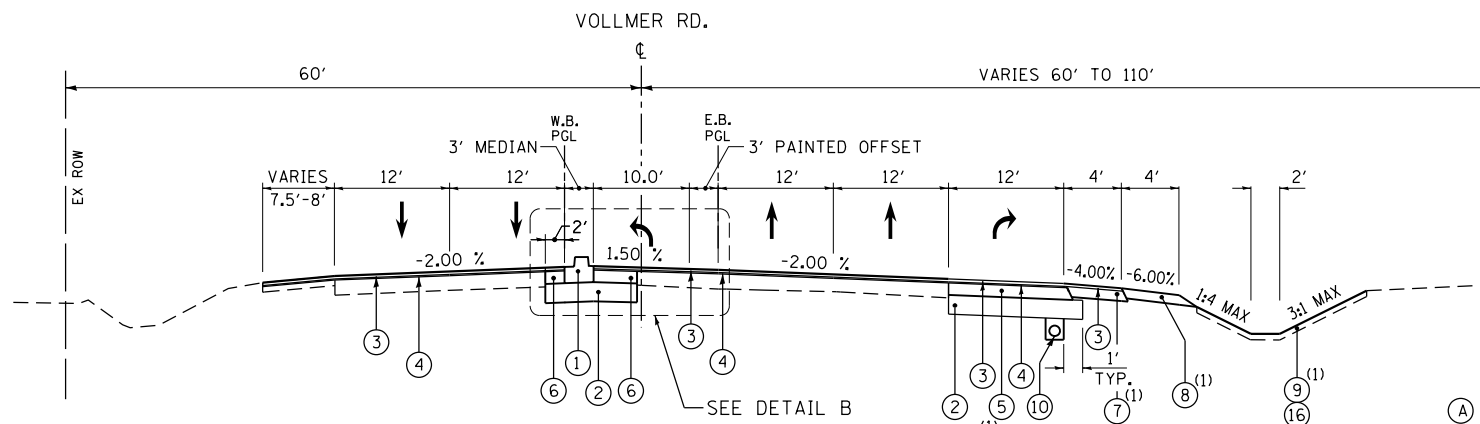
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	13
CONTRACT NO. 60V99				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

VOLLMER ROAD

STA. 194+00 TO STA. 206+00



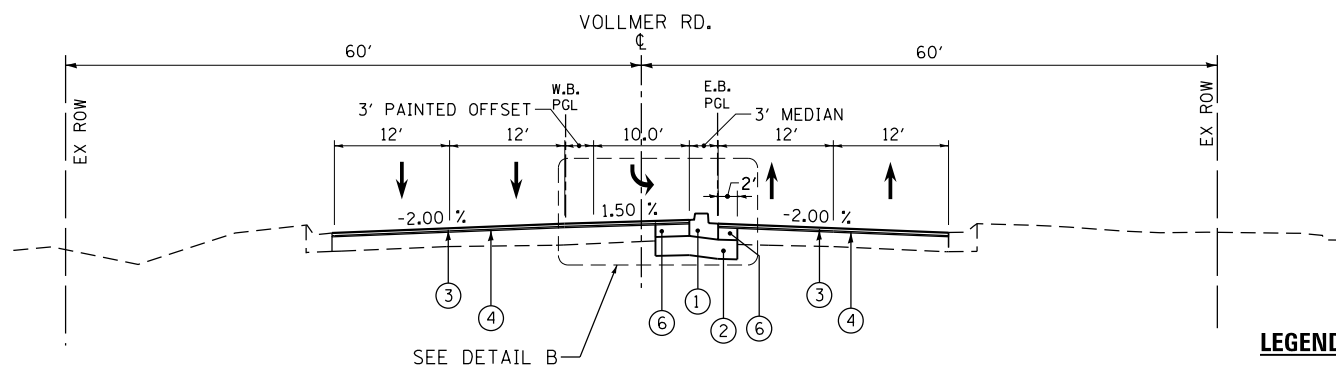
PROPOSED TYPICAL SECTION

VOLLMER ROAD

STA. 194+00 TO STA. 200+00

PIPE UNDERDRAINS, 6"

STA. 195+20 TO STA. 199+00
BELOW THE EDGE OF NEWLY
CONSTRUCTED RIGHT TURN LANE



PROPOSED TYPICAL SECTION

VOLLMER ROAD

STA. 200+30.8 TO STA. 206+00

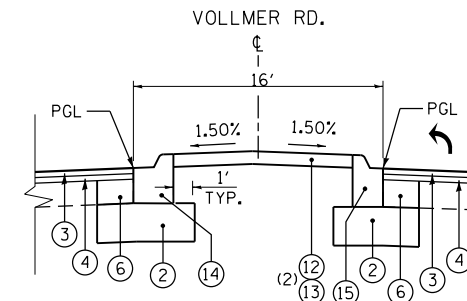
LEGEND:

- 2 1/2" HMA SURFACE REMOVAL
- 1" PAVEMENT GRINDING
- MEDIAN REMOVAL, SEE PLANS FOR LOCATIONS
- PAVEMENT REMOVAL, SEE PLANS FOR LOCATIONS

- * EXISTING B-6.24 CURB & GUTTER STA. 198+42.1 TO STA. 206+00
- Δ 2 1/2" HMA SURFACE REMOVAL FROM STA. 198+83 TO STA. 200+47
- (1) EASTBOUND RIGHT-TURN LANE STA. 194+64 TO STA. 199+30
- (2) PROPOSED CONCRETE MEDIAN SURFACE FROM STA. 194+00 TO STA. 195+98; PROPOSED HMA MEDIAN SURFACE FROM STA. 204+66.6 TO STA. 206+00
- (3) EXIST. P.C CONC. MEDIAN SB-9.06 STA. 194+00 TO STA. 198+46 EXIST. COMB. CONC. CURB & GUTTER M-2 STA 201+69 TO STA. 206+00
- (4) TIES INTO EXISTING TRAIL ON THE SOUTH GREEN BELT HOLDINGS (FOREST PRESERVE DISTRICT OF COOK COUNTY (FPDCC) PROPERTY).

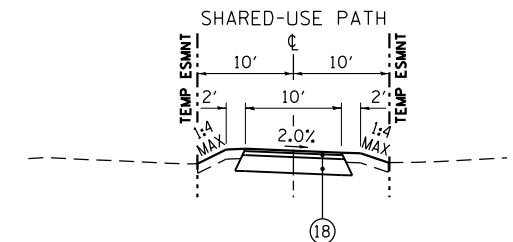
NOTE :

1. THE SURFACE OF THE EXISTING PCC PAVEMENT BEING OVERLAYED BY HMA PAVEMENT, SHALL BE GRINDED 1-INCH. THIS ITEM SHALL BE PAID FOR AS " Z0037200 PAVEMENT GRINDING".
2. EXISTING CONCRETE BARRIER MEDIAN: STA. 194+00 TO STA. 198+46 EXISTING CORRUGATED MEDIAN: STA. 198+46 TO STA. 199+49; STA. 200+56 TO STA. 201+69. EXISTING HMA MEDIAN SURFACE: STA 201+69 TO STA. 206+00
3. EXISTING PAVEMENT ON VOLLMER RD. IS PCC FROM STA. 194+00 TO STA. 198+83, AND FROM STA. 200+47 TO STA. 206+00; AND PCC WITH HMA FROM STA. 198+83 TO STA. 200+47.
4. SHARED-USE PATH STRUCTURE: AGGREGATE BASE COURSE, TYPE B 10"; HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm) 1 1/2"; HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 2 1/2"



DETAIL B

STA. 194+00 TO STA. 195+98
STA. 204+66.6 TO STA. 206+00



SHARED-USE PATH⁽⁴⁾

STA. 28+78.29 TO STA. 29+95.16

EXISTING LEGEND

- (A) EXISTING HMA SHOULDER 10 3/4"
- (B) EXISTING B-6.24 CURB AND GUTTER
- (C) EXISTING PCC PAVEMENT, 10" WITH HMA, 2 1/2" (SEE NOTE 3)
- (D) EXISTING MEDIAN SURFACE (SEE NOTE 2)
- (E) EXISTING BARRIER MEDIAN
- (F) EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (G) EXISTING GRAVEL SHOULDER
- (H) EXISTING BARRIER CURB
- (I) EXISTING PCC PAVEMENT, 10" (SEE NOTE 3)

PROPOSED LEGEND

- (1) PROPOSED CONCRETE MEDIAN, TYPE SM-6.06 (MONOLITHIC POURED MEDIAN)
- (2) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (3) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- (4) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (5) PROPOSED HOT-MIX ASPHALT BASE COURSE, 7 1/2"
- (6) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/2"
- (7) PROPOSED HOT-MIX ASPHALT SHOULDER, 6 1/4"
- (8) PROPOSED AGGREGATE SHOULDER, TYPE B 6"
- (9) PROPOSED TOPSOIL EXCAVATION AND PLACEMENT, 6"
- (10) PROPOSED PIPE UNDERDRAINS, 6"
- (11) PROPOSED LANDSCAPE MEDIAN (SEE LANDSCAPING PLANS FOR DETAILS)
- (12) PROPOSED CONCRETE MEDIAN SURFACE, 4 INCH
- (13) PROPOSED HOT-MIX ASPHALT MEDIAN SURFACE, 4 INCH
- (14) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.18
- (15) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12
- (16) PROPOSED SEEDING CLASS 2A
- (17) PROPOSED GRADING AND SHAPING DITCHES
- (18) PROPOSED SHARED-USED PATH (SEE NOTE 4)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS
IL ROUTE 50 AT VOLLMER ROAD

SCALE: 1"=10' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	14
				CONTRACT NO. 60V99
ILLINOIS FED. AID PROJECT				

FILE NAME = \$FILEL\$

USER NAME = \$USER\$	DESIGNED - DS/BFH	REVISED -
	DRAWN - DS/BFH	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - BA	REVISED -
PLOT DATE = \$DATE\$	DATE - 7/2/14	REVISED -

SHT.PLAN

EARTHWORK SUMMARY TABLE

DESCRIPTION	QUANTITY	UNIT
EARTH EXCAVATION	3,594	CU YD
FURNISHED EXCAVATION	0	CU YD
TOPSOIL / UNSUITABLE EXCAVATION		
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	169	CU YD
TOPSOIL EXCAVATION AND PLACEMENT	923	CU YD

- EXCESS TOPSOIL TO BE USED IN AREAS OF SEWER REPLACEMENT AND OTHER AREAS TO BE SEEDED.

EARTHWORK SCHEDULE - IL RTE. 50 (CICERO AVENUE)

STATION	STATION	EARTH EXCAVATION (20200100)	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE (+/-) (+) = WASTE (-) = SHORTAGE	TOPSOIL (EXCAVATION AND PLACEMENT) (21101505)
		CU YD	CU YD	CU YD	CU YD	CU YD
493+28.00	494+00.00	111	94	0	94	0
494+00.00	495+00.00	148	126	0	126	0
495+00.00	496+00.00	163	139	0	139	17
496+00.00	497+00.00	190	162	0	162	41
497+00.00	498+00.00	188	160	4	156	48
498+00.00	499+00.00	132	112	20	92	47
499+00.00	500+00.00	43	37	16	21	24
500+00.00	501+00.00	25	21	6	15	40
501+00.00	502+00.00	72	61	6	55	83
502+00.00	503+00.00	90	77	0	77	85
503+00.00	504+00.00	98	83	8	75	85
504+00.00	505+00.00	118	100	18	82	82
505+00.00	505+38.00	24	20	5	15	33
IL RT 50	TOTAL	1,402	1,192	83	1,109	585

NOTE: 15% SHRINKAGE FACTOR

EARTHWORK SCHEDULE - VOLLMER ROAD

STATION	STATION	EARTH EXCAVATION (20200100)	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE (+/-) (+) = WASTE (-) = SHORTAGE	TOPSOIL (EXCAVATION AND PLACEMENT) (21101505)
		CU YD	CU YD	CU YD	CU YD	CU YD
194+00.00	195+00.00	368	313	6	307	36
195+00.00	196+00.00	452	384	10	374	53
196+00.00	197+00.00	351	298	8	290	41
197+00.00	198+00.00	272	231	6	225	36
198+00.00	199+00.00	167	142	12	130	29
199+00.00	200+00.00	68	58	6	52	14
200+00.00	201+00.00	20	17	15	2	14
201+00.00	202+00.00	40	34	17	17	19
202+00.00	203+00.00	67	57	3	54	13
203+00.00	204+00.00	100	85	2	83	23
204+00.00	205+00.00	107	91	3	88	27
205+00.00	206+00.00	117	99	8	91	21
206+00.00	207+00.00	63	54	6	48	12
VOLLMER ROAD	TOTAL	2,192	1,863	102	1,761	338

NOTE: 15% SHRINKAGE FACTOR

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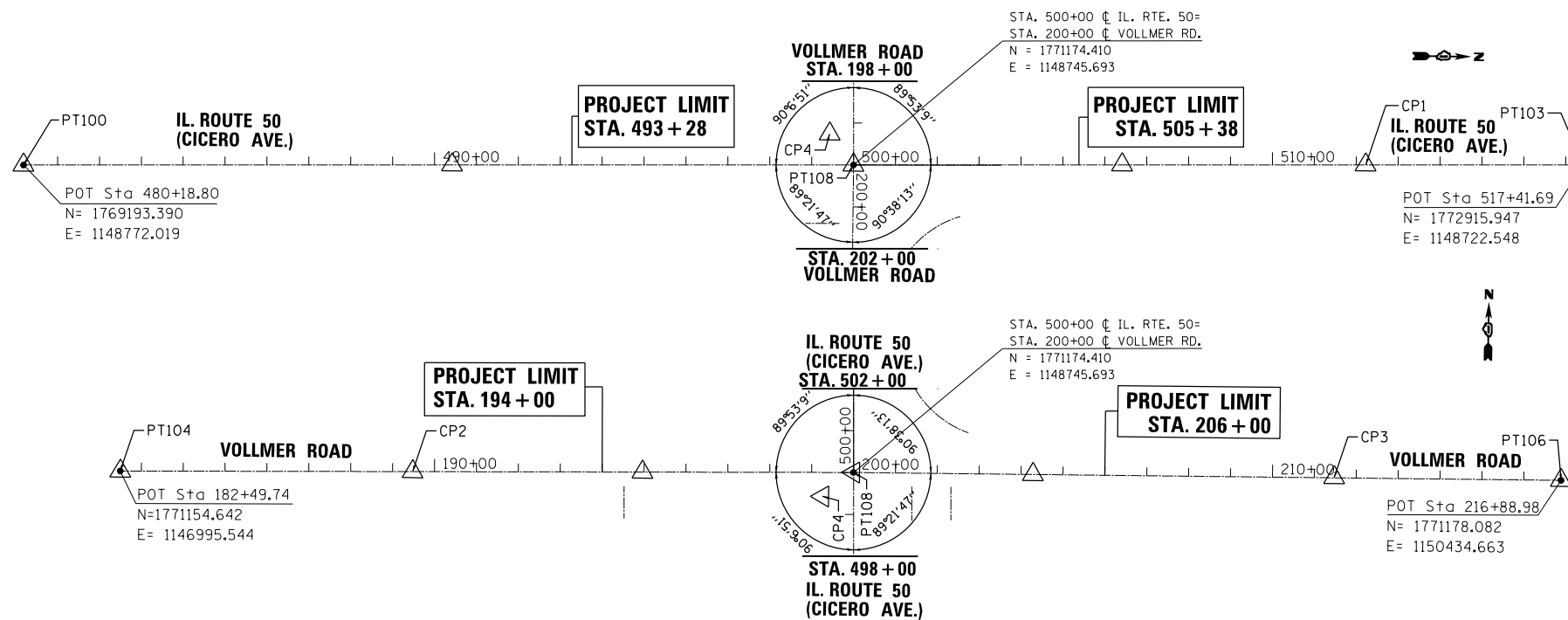
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PLOT DATE = \$DATE\$	DATE - 7/2/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
IL ROUTE 50 AT VOLLMER ROAD

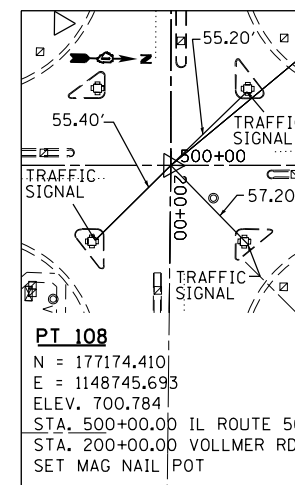
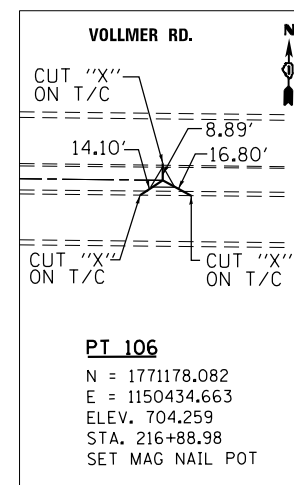
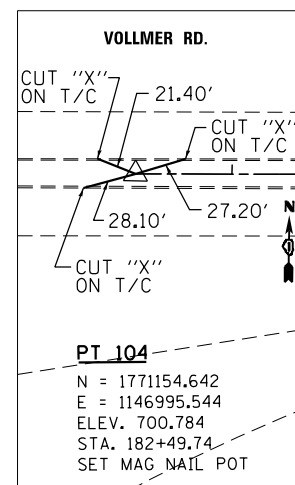
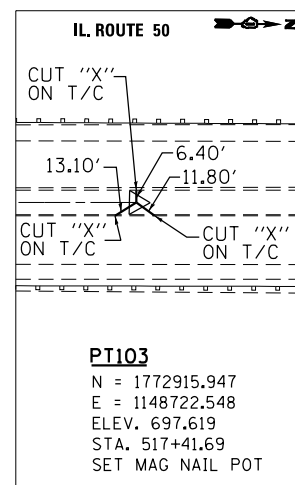
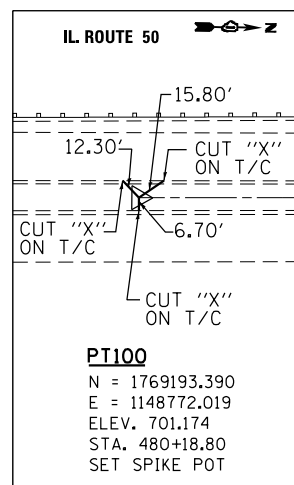
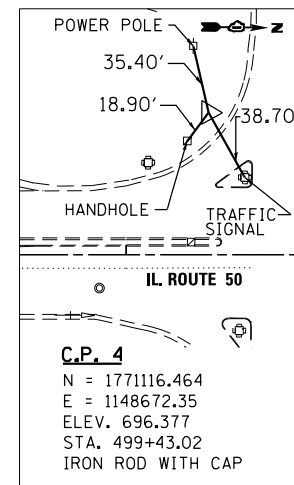
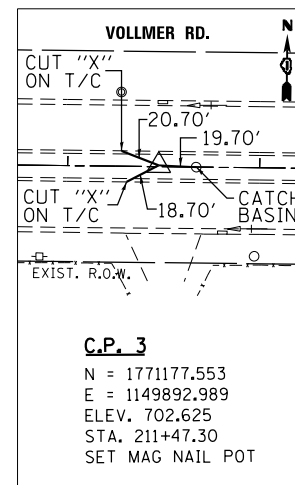
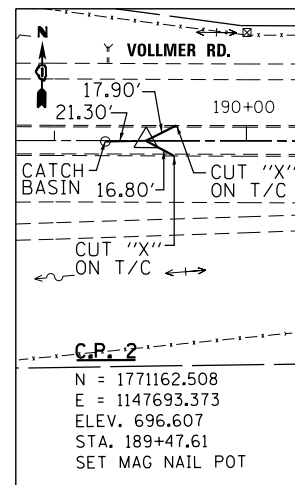
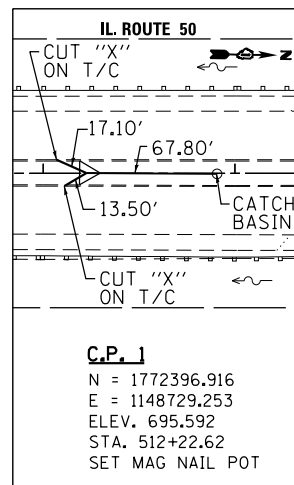
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V99	



BENCHMARKS

- BM#1
"X" IN SOUTHERLY BOLT OF FIRE HYDRANT IN S.W. CORNER OF IL ROUTE 50 AND MATTESON AVE. ELEV. = 696.471
- BM#2
"□" IN CENTER OF CONC. BASE OF DOUBLE HANDHOLE IN S.E. CORNER OF IL ROUTE 50 AND VOLLMER ROAD ELEV. = 696.602
- BM#3
RR SPIKE IN P. POLE ON S. SIDE VOLLMER RD. ± 1050' E. OF IL ROUTE 50 BETWEEN ENTRANCES OF MICROWAVE TOWER STA. 210+86, 47' RT. ELEV. = 702.742
- BM#4
"□" IN N.E. CORNER CONC. BASE OF VERY TALL LIGHT POLE S. SIDE VOLLMER ± 1200' WEST OF IL ROUTE 50 STA. 188+54, 93' RT. ELEV. = 693.028



FILE NAME = \$FILEL\$

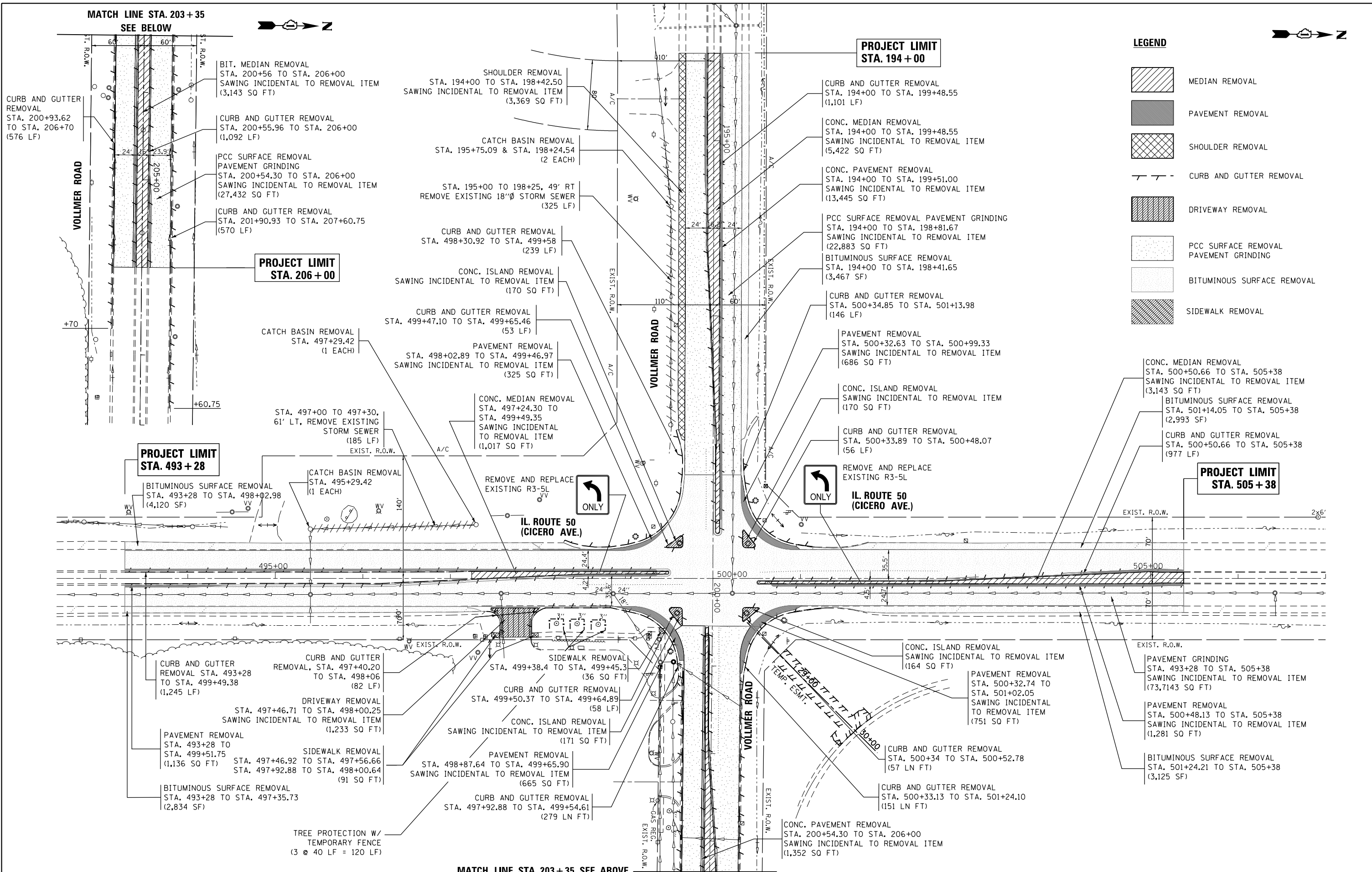
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PLOT DATE = \$DATE\$	DATE - 7/2/14	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS
IL ROUTE 50 AT VOLLMER ROAD**

SCALE: 1"=200' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	16
CONTRACT NO. 60V99				
ILLINOIS FED. AID PROJECT				



FILE NAME = \$FILEL\$
SHT.PLAN

USER NAME = \$USER\$	DESIGNED - DS/BFH	REVISED -
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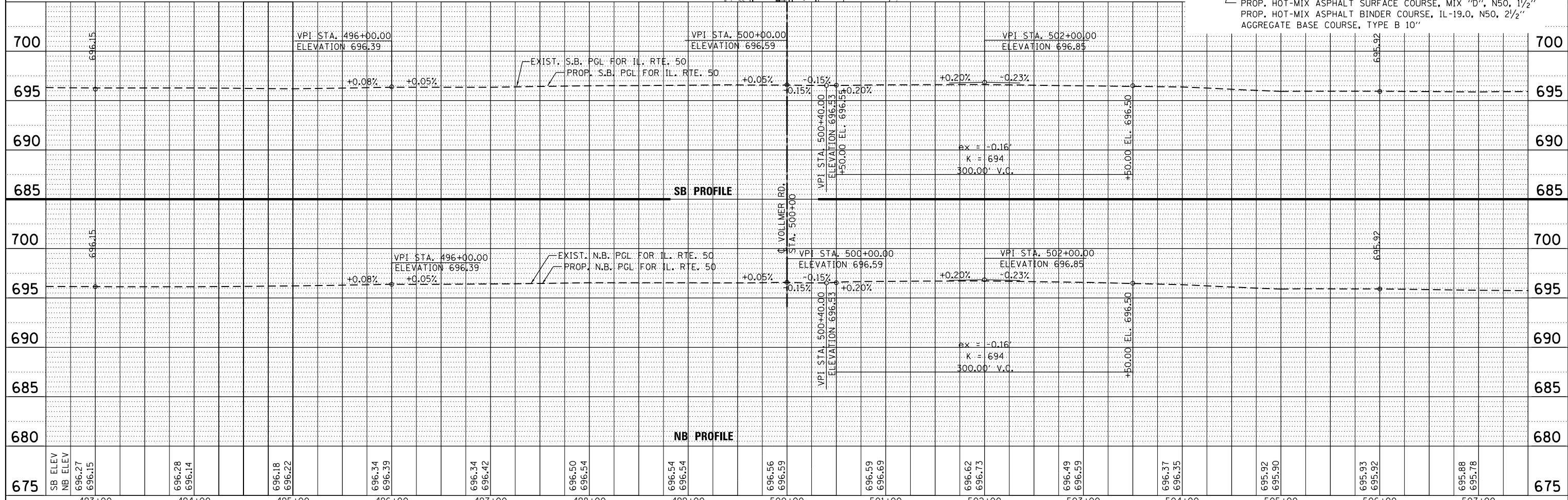
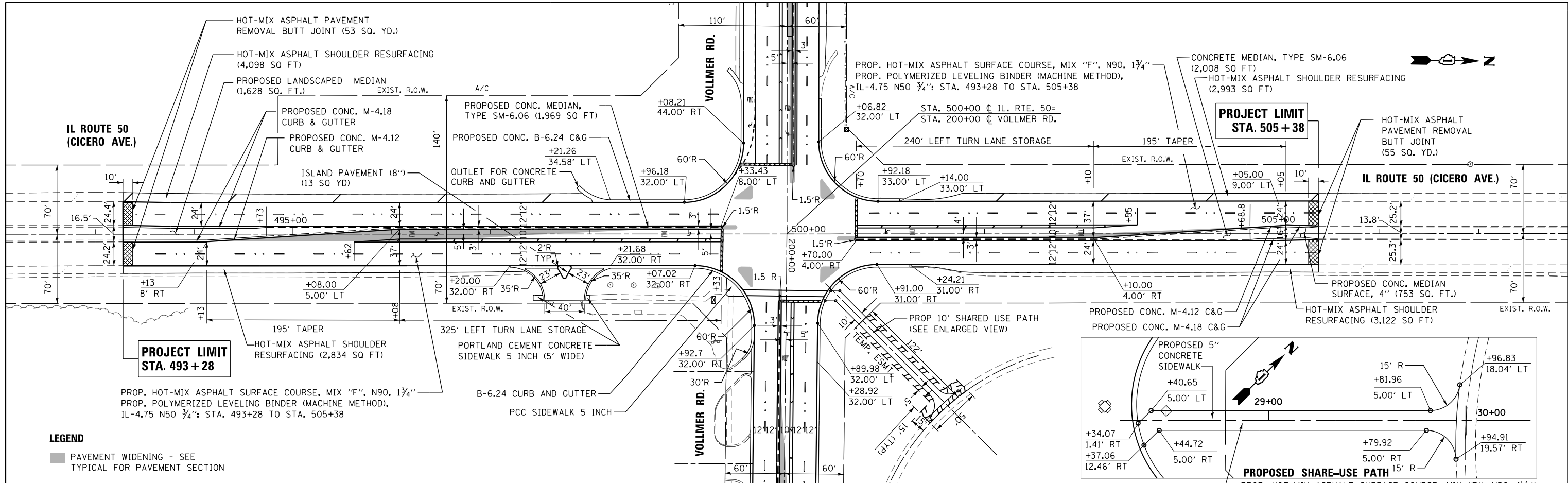
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING CONDITONS AND REMOVAL PLAN			
IL ROUTE 50 AT VOLLMER ROAD			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	17
CONTRACT NO. 60V99				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
NOTE BOOK	
CHECKED	
ALIGNMENT	
FILE NAME	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
GRADES	
CHECKED	
STRUCTURE	
NOTATION	
NO.	



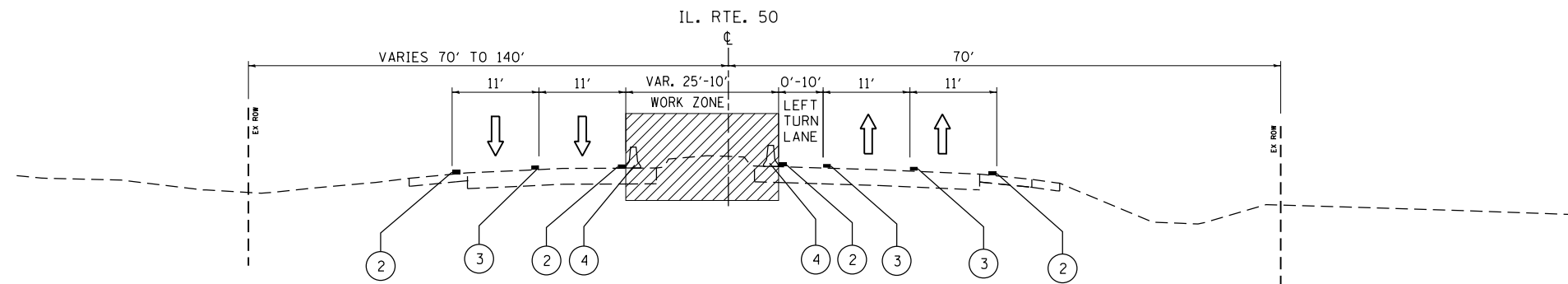
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		DATE - 7/2/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PROFILE - IL ROUTE 50 (CICERO AVE.)
 IL ROUTE 50 AT VOLLMER ROAD

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

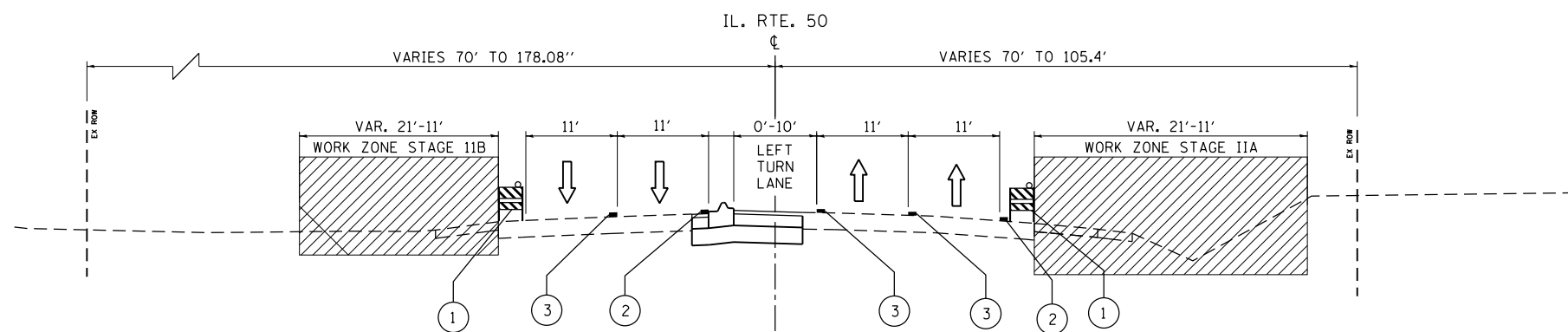
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2112	COOK	73	18
CONTRACT NO. 60V99				
ILLINOIS FED. AID PROJECT				



STAGE 1 -M.O.T. TYPICAL SECTION

IL ROUTE 50

STA. 493+28.00 TO STA. 505+38.00



STAGE 2 -M.O.T. TYPICAL SECTION

IL ROUTE 50

STAGE 11B

STA. 495+30.00 TO STA. 499+25.00 (SOUTHBOUND)
 STA. 500+31.91 TO STA. 505+38.00 (SOUTHBOUND)

STAGE 11A

STA. 496+16.90 TO STA. 499+67.08 (NORTHBOUND)
 STA. 500+31.81 TO STA. 505+38.00 (NORTHBOUND)

LEGEND

- ① TYPE II BARRICADE OR VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ② TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ③ TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
- ④ TEMPORARY CONCRETE BARRIER
- ← DIRECTION OF TRAFFIC
- ▨ WORK ZONE

NOTES

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. SEE STAGING PLAN AND STANDARD 701701 FOR ADDITIONAL INFORMATION.
3. LOCATION OF "DRIVEWAY ENTRANCE" SIGNS PER STANDARD TC-26 SHALL BE DETERMINED BY THE ENGINEER.

FILE NAME = \$FILEL\$

SHT.PLAN

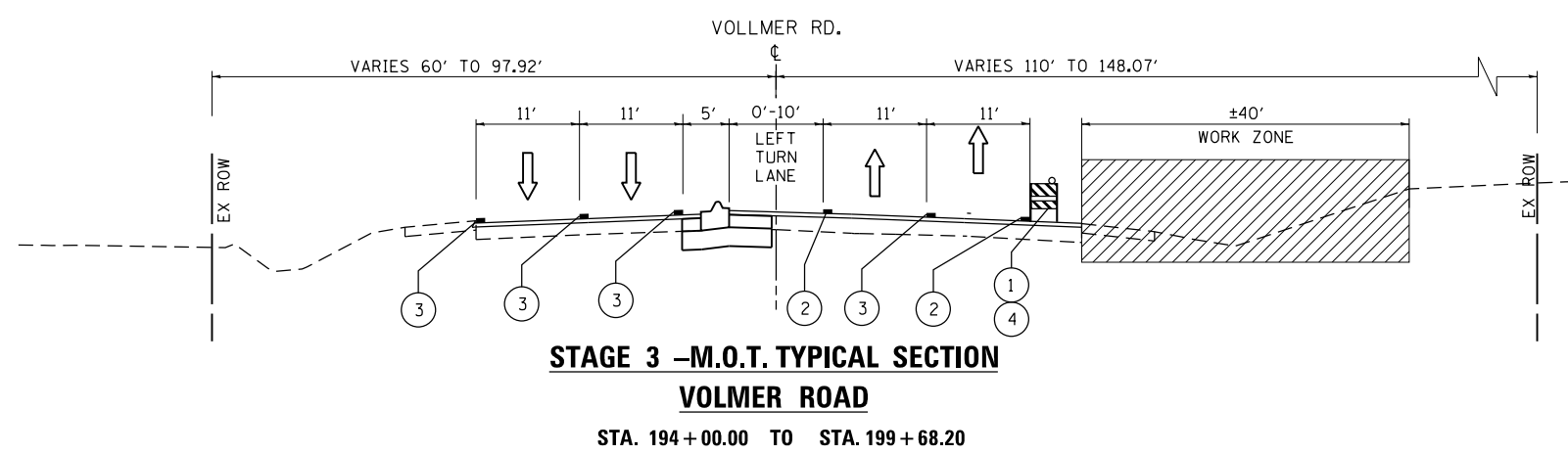
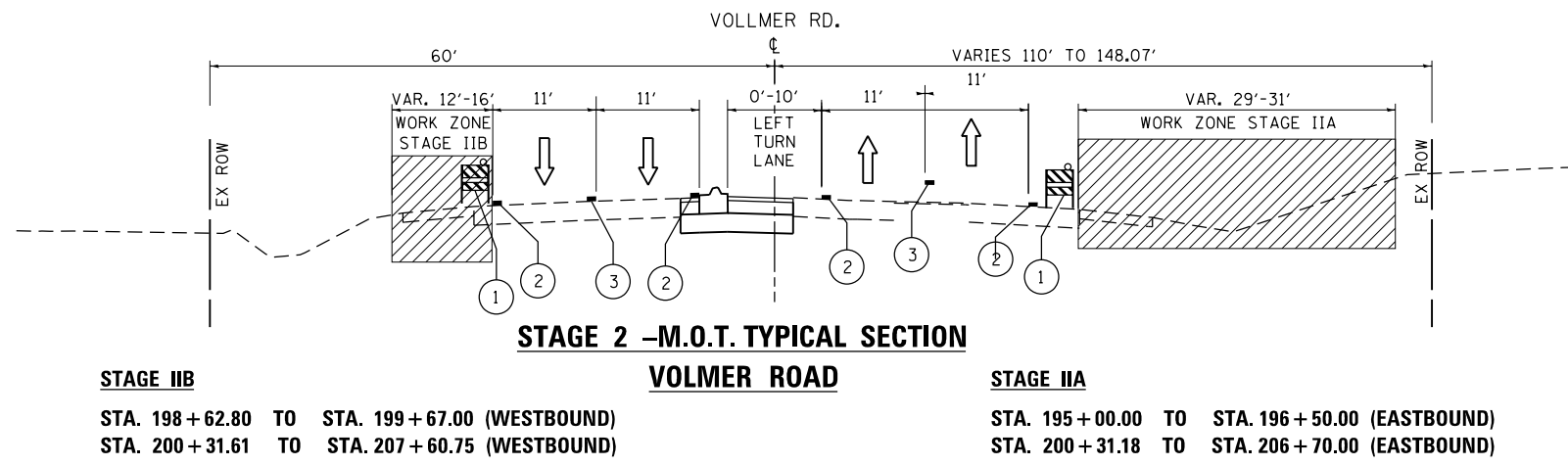
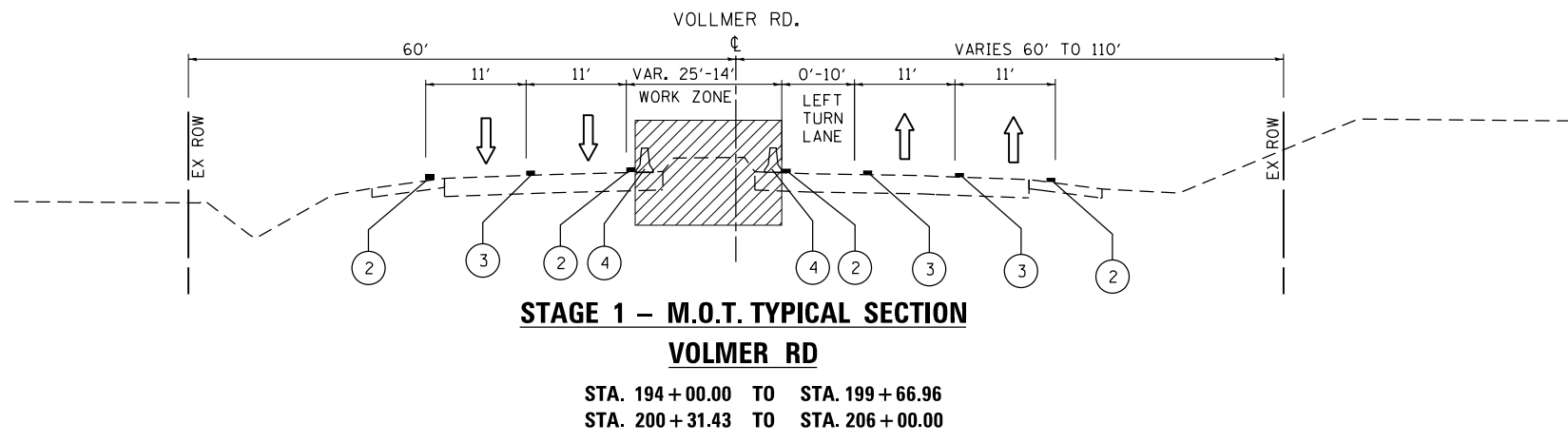
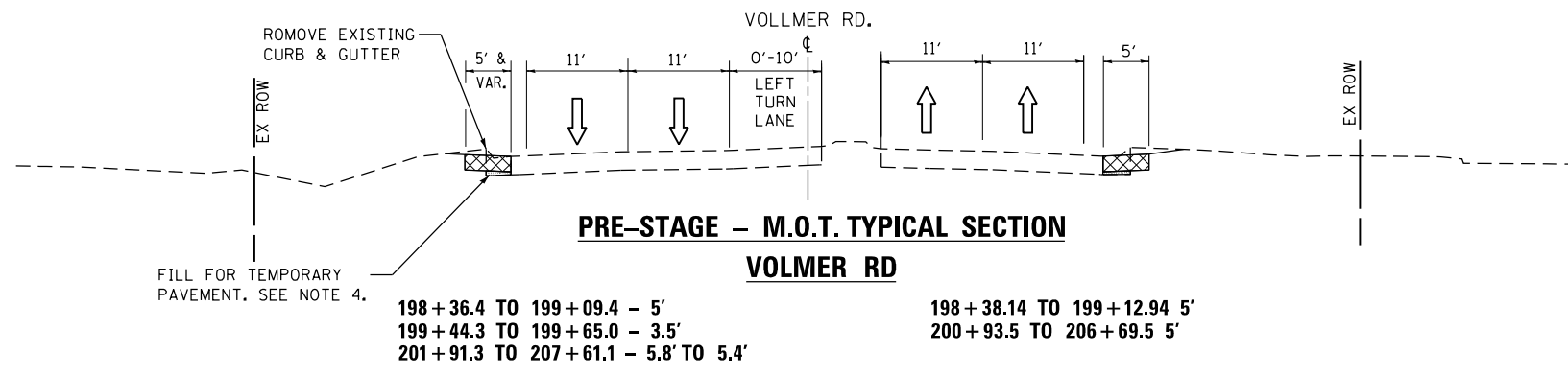
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PLOT DATE = \$DATE\$	DATE - 7/2/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS
 IL ROUTE 50 AT VOLLMER ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	20
				CONTRACT NO. 60V99
ILLINOIS FED. AID PROJECT				



LEGEND

- ① TYPE II BARRICADE OR VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ② TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ③ TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
- ④ TEMPORARY CONCRETE BARRIER
- ← DIRECTION OF TRAFFIC
- ▨ WORK ZONE
- ▩ TEMPORARY PAVEMENT - 10"

NOTES

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. SEE STAGING PLAN AND STANDARD 701701 FOR ADDITIONAL INFORMATION.
3. LOCATION OF "DRIVEWAY ENTRANCE" SIGNS PER STANDARD TC-26 SHALL BE DETERMINED BY THE ENGINEER.
4. THE COST OF FILL FOR TEMPORARY PAVEMENT SHALL BE INCIDENTAL TO THE COST OF "TEMPORARY PAVEMENT"

FILE NAME = \$FILEL\$

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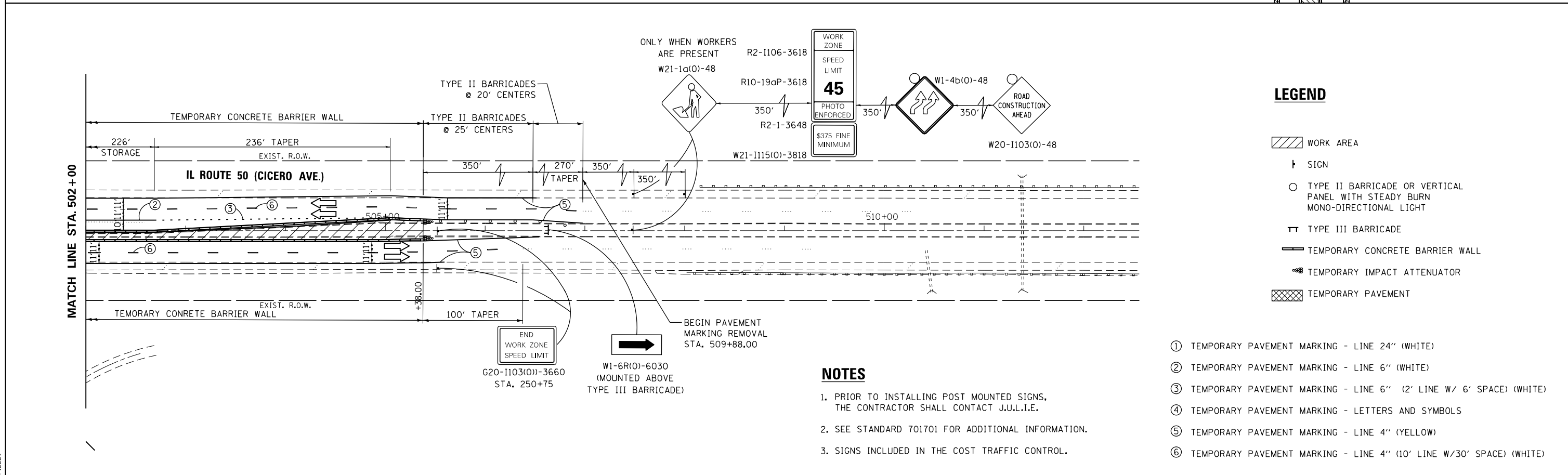
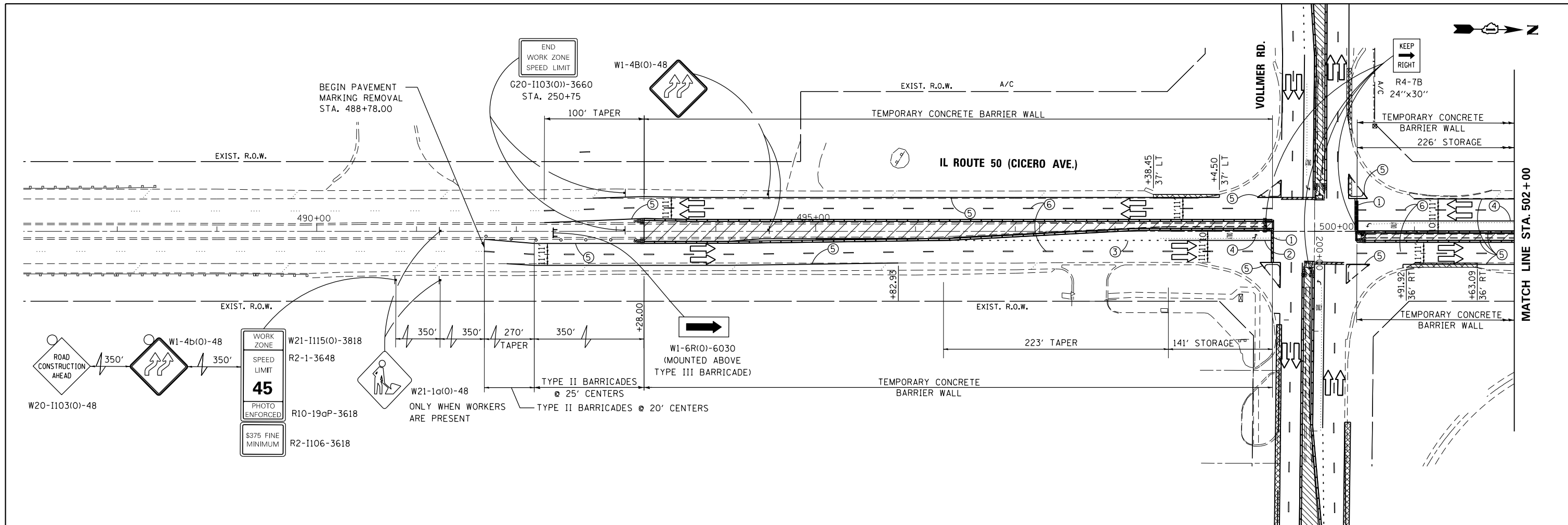
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS
IL ROUTE 50 AT VOLLMER ROAD

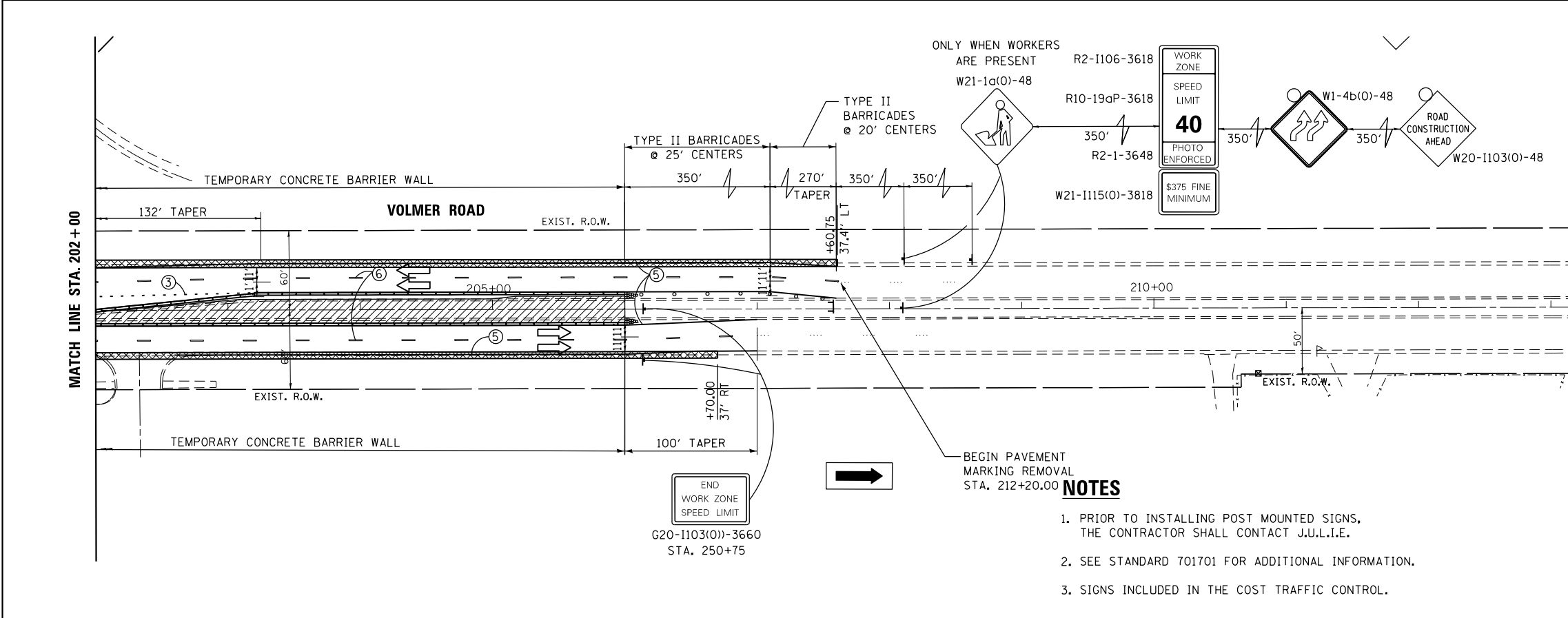
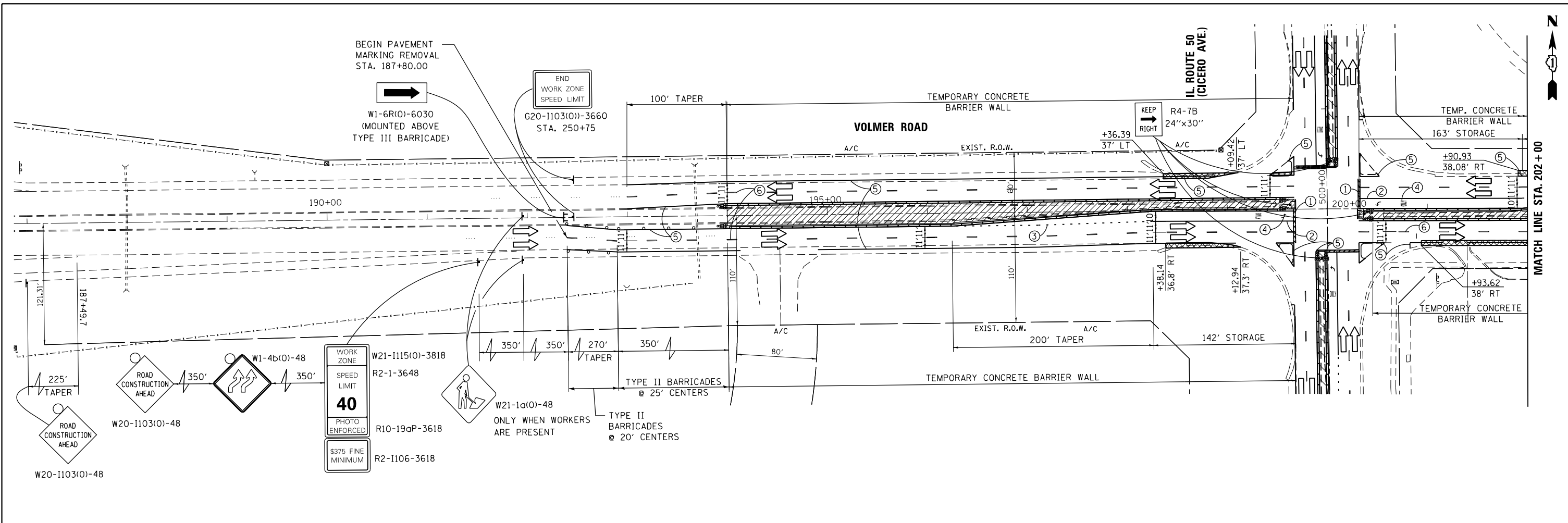
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	21
CONTRACT NO. 60V99				
ILLINOIS FED. AID PROJECT				

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

SHT.PLAN



FILE NAME = \$FILEL\$ SHT.PLAN	USER NAME = \$USER\$	DESIGNED - DS/BFH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC - STAGE I IL ROUTE 50 AT VOLLMER ROAD	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	CHECKED - BA	REVISED -			350	101N-2(12)	COOK	73	22
	PLOT DATE = \$DATE\$	DATE - 7/2/14	REVISED -	SCALE: 1"=50'	SHEET 1 OF 5 SHEETS	CONTRACT NO. 60V99		ILLINOIS FED. AID PROJECT		



LEGEND

- WORK AREA
- SIGN
- TYPE II BARRICADE OR VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY PAVEMENT

- ① TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 6" (2' LINE W/ 6' SPACE) (WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 4" (10' LINE W/30' SPACE) (WHITE)

NOTES

- PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
- SEE STANDARD 701701 FOR ADDITIONAL INFORMATION.
- SIGNS INCLUDED IN THE COST TRAFFIC CONTROL.

FILE NAME = \$FILEL\$

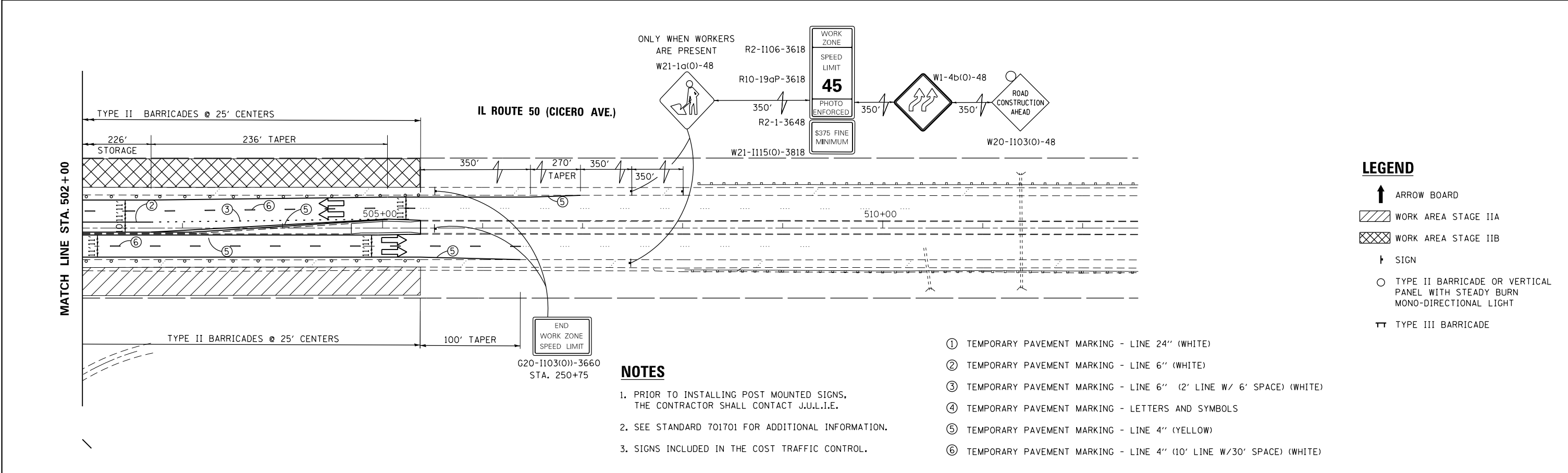
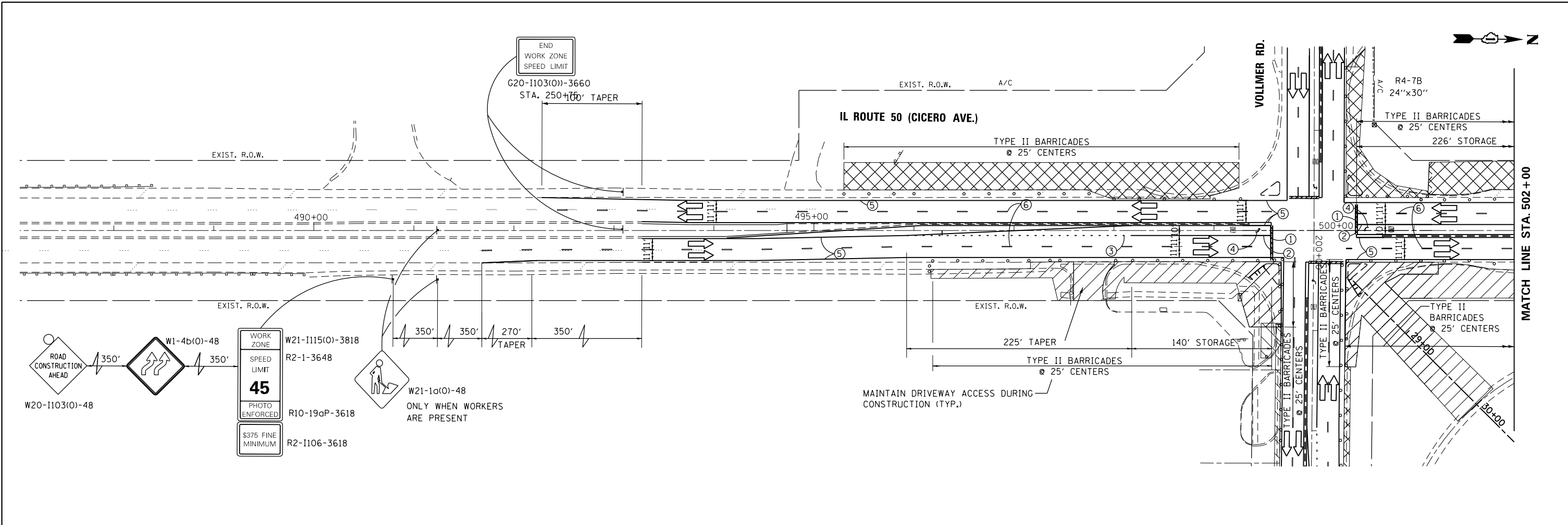
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PLOT DATE = \$DATE\$	DATE - 7/2/14	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC - STAGE I
IL ROUTE 50 AT VOLLMER ROAD**

SCALE: 1"=50' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	23
				CONTRACT NO. 60V99
ILLINOIS FED. AID PROJECT				



- LEGEND**
- ↑ ARROW BOARD
 - ▨ WORK AREA STAGE IIA
 - ▩ WORK AREA STAGE IIB
 - † SIGN
 - TYPE II BARRICADE OR VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - ⊣ TYPE III BARRICADE

- NOTES**
1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
 2. SEE STANDARD 701701 FOR ADDITIONAL INFORMATION.
 3. SIGNS INCLUDED IN THE COST TRAFFIC CONTROL.

- ① TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 6" (2' LINE W/ 6' SPACE) (WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 4" (10' LINE W/30' SPACE) (WHITE)

FILE NAME = \$FILEL\$

USER NAME = \$USER\$	DESIGNED - DS/BFH	REVISED -
DRAWN - DS/BFH	REVISOR -	
PLOT SCALE = \$SCALE\$	CHECKED - BA	REVISOR -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

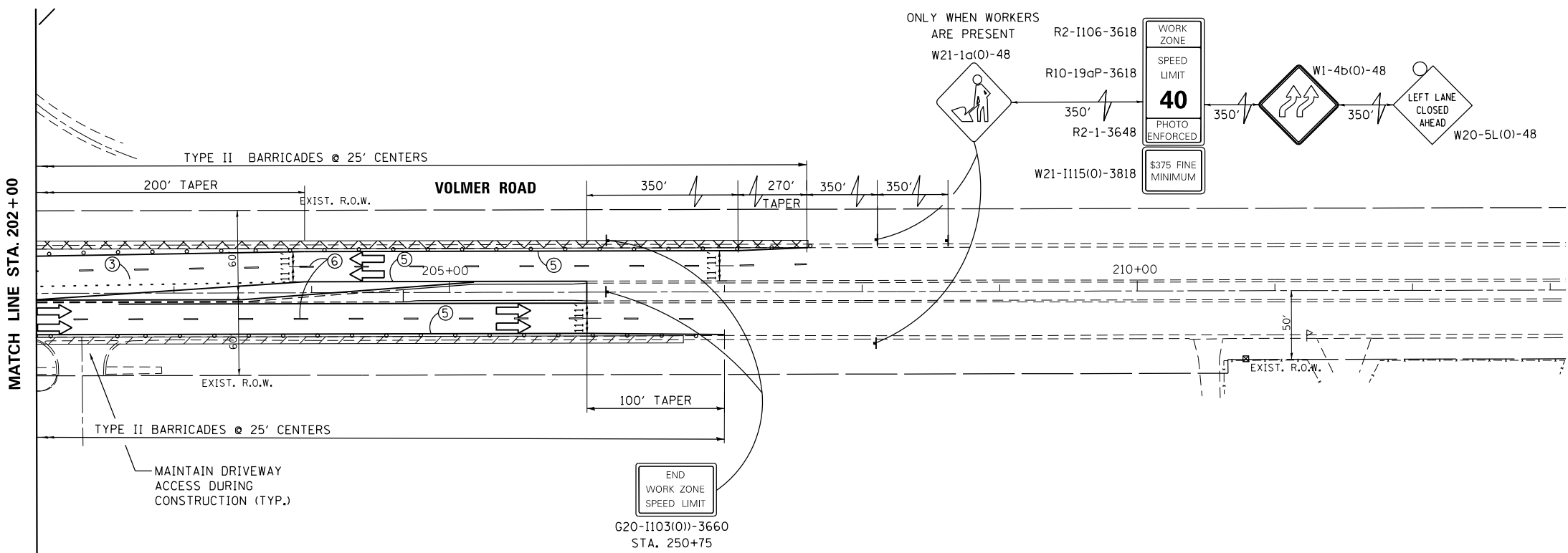
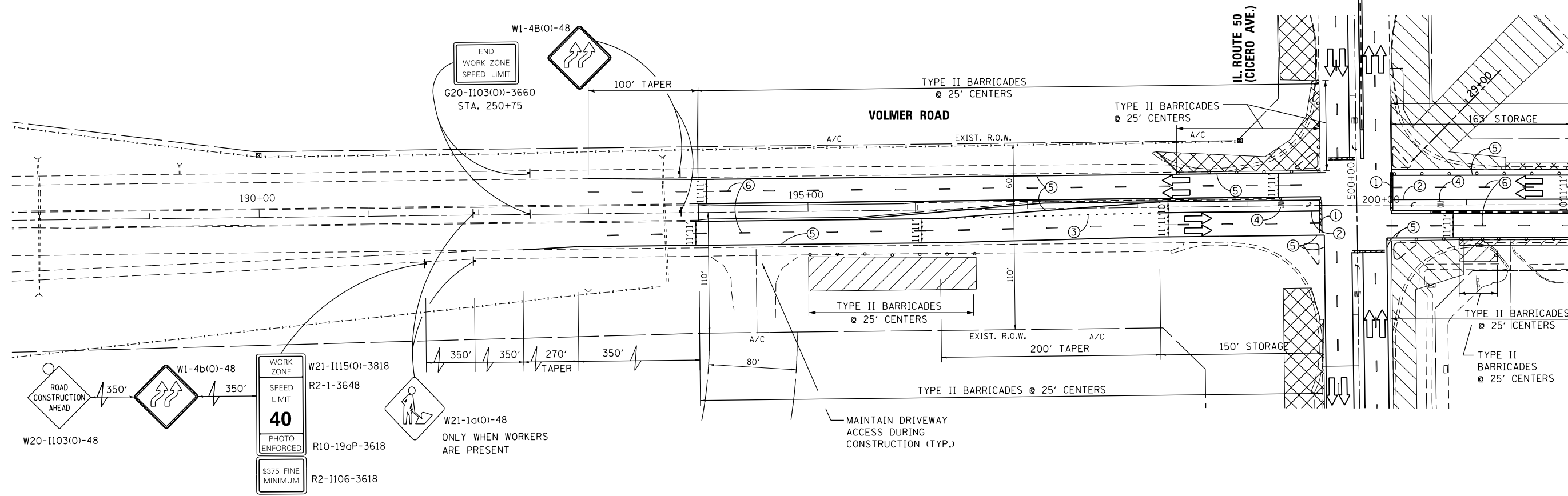
**SUGGESTED MAINTENANCE OF TRAFFIC - STAGE II
IL ROUTE 50 AT VOLLMER ROAD**

SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	24
				CONTRACT NO. 60V99
ILLINOIS FED. AID PROJECT				



MATCH LINE STA. 202+00



LEGEND

- WORK AREA STAGE IIA
- WORK AREA STAGE IIB
- SIGN
- TYPE II BARRICADE OR VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ① TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 6" (2' LINE W/ 6' SPACE) (WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 4" (10' LINE W/30' SPACE) (WHITE)

NOTES

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. SEE STANDARD 701701 FOR ADDITIONAL INFORMATION.
3. SIGNS INCLUDED IN THE COST TRAFFIC CONTROL.

FILE NAME = \$FILEL\$

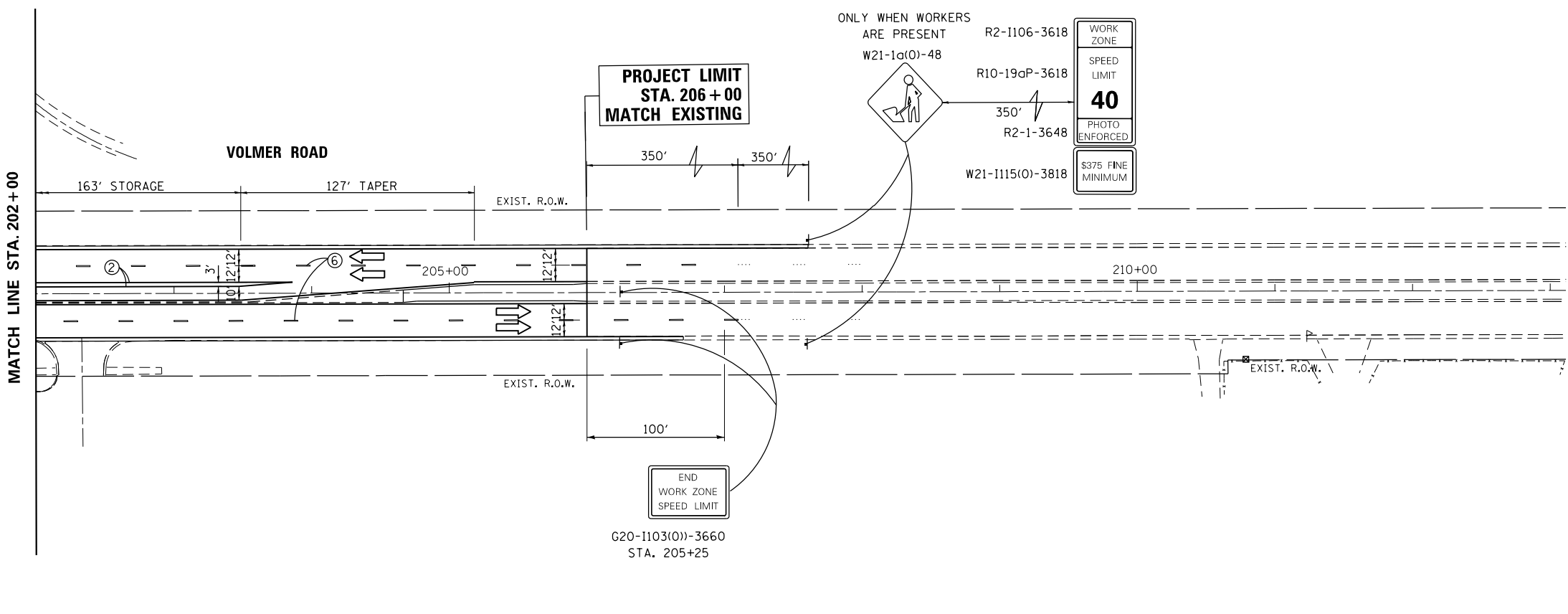
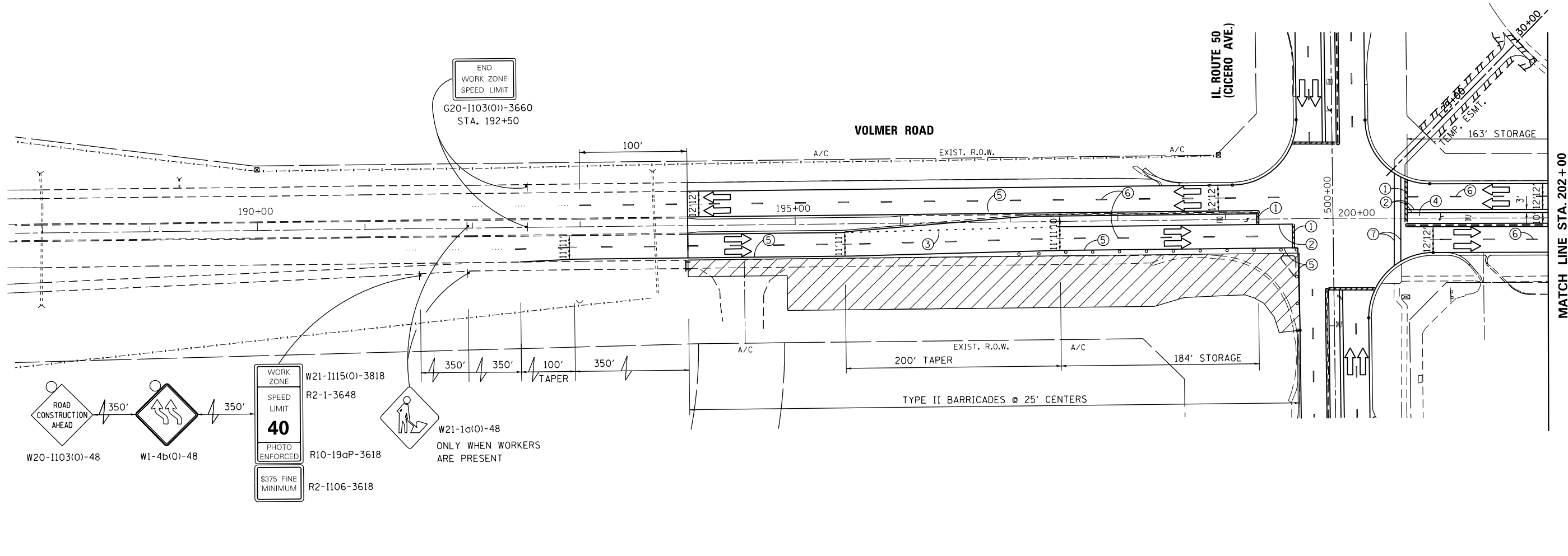
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PLOT SCALE = \$SCALE\$	CHECKED - BA	REVISED -	
PLOT DATE = \$DATE\$	DATE - 7/2/14	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC - STAGE II
IL ROUTE 50 AT VOLLMER ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	25
CONTRACT NO. 60V99				
ILLINOIS FED. AID PROJECT				



LEGEND

- WORK AREA
- SIGN
- TYPE II BARRICADE OR VERTICAL PANEL WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY IMPACT ATTENUATOR
- ① TEMPORARY PAVEMENT MARKING - LINE 24" (WHITE)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 6" (2' LINE W/ 6' SPACE) (WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4" (YELLOW)
- ⑥ TEMPORARY PAVEMENT MARKING - LINE 4" (10' LINE W/30' SPACE) (WHITE)
- ⑦ TEMPORARY PAVEMENT MARKING - LINE 12" (WHITE)

NOTES

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. SEE STANDARD 701701 FOR ADDITIONAL INFORMATION.
3. SIGNS INCLUDED IN THE COST TRAFFIC CONTROL.

FILE NAME = \$FILEL\$

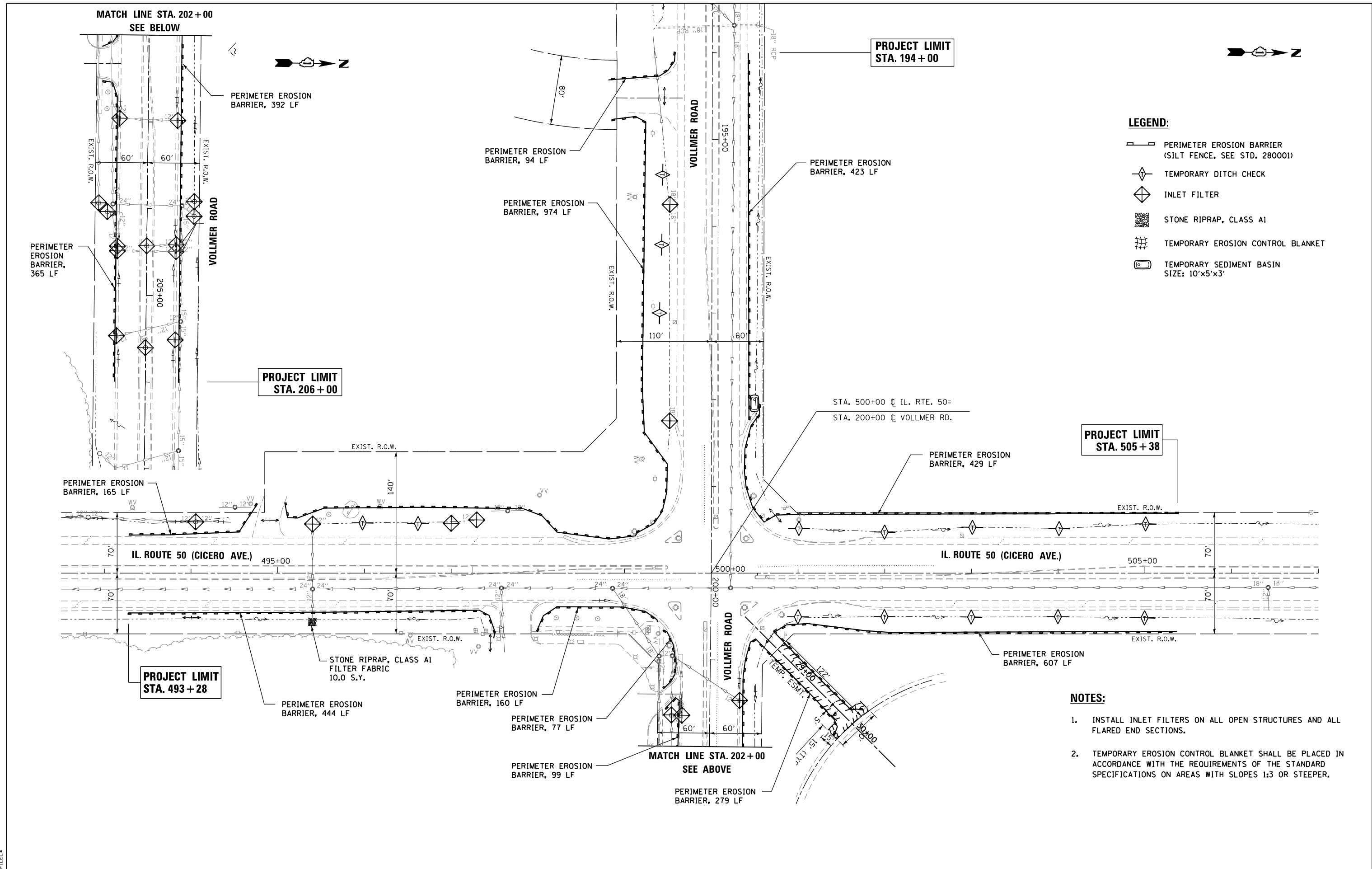
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DRAWN - DS/BFH	CHECKED - BA	REVISED -
PLOT SCALE = \$SCALE\$	DATE - 7/2/14	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC - STAGE III
IL ROUTE 50 AT VOLLMER ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	26
				CONTRACT NO. 60V99
ILLINOIS FED. AID PROJECT				



- LEGEND:**
- PERIMETER EROSION BARRIER (SILT FENCE, SEE STD. 280001)
 - TEMPORARY DITCH CHECK
 - INLET FILTER
 - STONE RIPRAP, CLASS A1
 - TEMPORARY EROSION CONTROL BLANKET
 - TEMPORARY SEDIMENT BASIN SIZE: 10'x5'x3'

- NOTES:**
1. INSTALL INLET FILTERS ON ALL OPEN STRUCTURES AND ALL FLARED END SECTIONS.
 2. TEMPORARY EROSION CONTROL BLANKET SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON AREAS WITH SLOPES 1:3 OR STEEPER.

FILE NAME = \$FILEL\$

USER NAME = \$USER\$	DESIGNED - DS/BFH	REVISED -
DRAWN - DS/BFH	CHECKED - BA	REVISED -
PLOT SCALE = \$SCALE\$	DATE - 7/2/14	REVISED -
PLOT DATE = \$DATE\$		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL & SEDIMENTATION PLAN - STAGE I
IL ROUTE 50 AT VOLLMER ROAD**

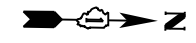
SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	27
CONTRACT NO. 60V99				

ILLINOIS FED. AID PROJECT

MATCH LINE STA. 202+00
SEE BELOW

PROJECT LIMIT
STA. 194+00



LEGEND:

- PERIMETER EROSION BARRIER (SILT FENCE, SEE STD. 280001)
- TEMPORARY DITCH CHECK
- INLET FILTER
- STONE RIPRAP, CLASS A1
- TEMPORARY EROSION CONTROL BLANKET
- TEMPORARY SEDIMENT BASIN
SIZE: 10'x5'x3'

PROJECT LIMIT
STA. 206+00

PROJECT LIMIT
STA. 505+38

PROJECT LIMIT
STA. 493+28

STONE RIPRAP, CLASS A1
FILTER FABRIC
10.0 S.Y.

NOTES:

1. INSTALL INLET FILTERS ON ALL OPEN STRUCTURES AND ALL FLARED END SECTIONS.
2. TEMPORARY EROSION CONTROL BLANKET SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS ON AREAS WITH SLOPES 1:3 OR STEEPER.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & SEDIMENTATION PLAN - STAGE II
IL ROUTE 50 AT VOLLMER ROAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	28
CONTRACT NO. 60V99				

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

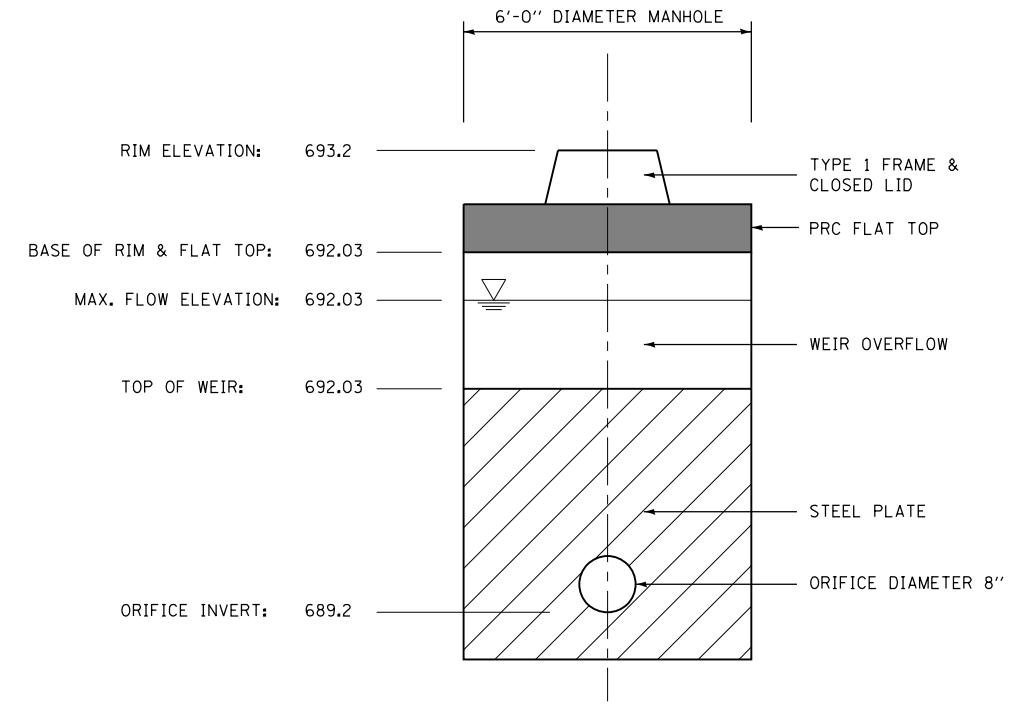
ILLINOIS FED. AID PROJECT

FILE NAME = \$FILEL\$

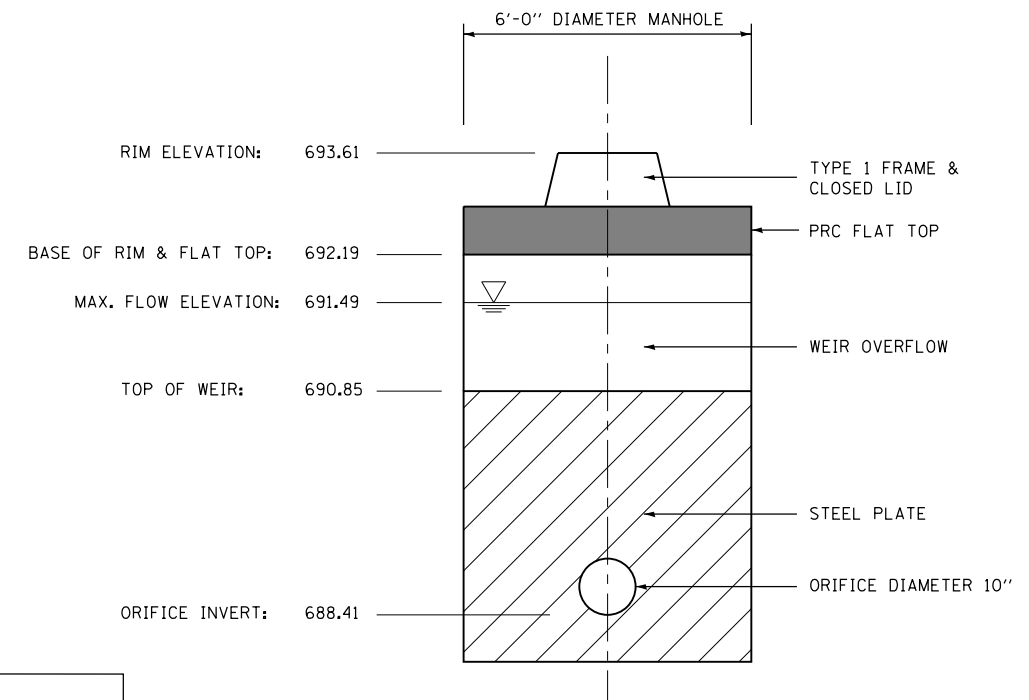
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DRAWN - DS/BFH	REVISIONS -	
PLOT SCALE = \$SCALE\$	CHECKED - BA	REVISED -
PLOT DATE = \$DATE\$	DATE - 7/2/14	REVISED -

SHT.PLAN

- 1 STA. 492+81.42 64.52' LT
EX CATCH BASIN
RIM EL 693.95
INV EL 689.15 (N,S) 12"
- 2 STA. 494+05.35 59.17' LT
EX CATCH BASIN-2
RIM EL 693.90
INV EL 689.80 (N,S) 12"
- 3 STA. 494+50.69 75.98' LT
EX MANHOLE
RIM EL 695.07
INV EL 688.67 (N) 12"
INV EL 688.57 (S) 12"
- 4 STA. 495+39.96 56.47' LT
EX CATCH BASIN
RIM EL 693.61
INV EL 687.91 (N) 12"
INV EL XXX.XX (E) 12"
- 5 STA. 495+40.15 18.32' RT
EX MANHOLE
RIM EL 696.12
INV EL 686.12 (N) 24"
INV EL 686.02 (S) 24"
INV EL 686.12 (W,E) 12"
- 6 STA. 497+57.95 17.12' RT
EX MANHOLE
RIM EL 696.31
INV EL 687.11 (N) 24"
INV EL 687.01 (S) 24"
INV EL 687.11 (E) 12"
- 7 STA. 497+29.42 61.39' LT
EX CATCH BASIN
RIM EL 694.77
INV EL 690.67 (S) 12"
- 8 STA. 497+65.14 71.85' LT
EX MANHOLE
RIM EL 695.31
INV EL 689.71 (N) 12"
INV EL 689.61 (N) 12"
- 9 STA. 498+86.09 17.40' RT
EX MANHOLE
RIM EL 696.28
INV EL 686.88 (N) 24"
INV EL 686.78 (S) 24"
INV EL 686.88 (NE) 12"
- 10 STA. 499+39.91 95.58' RT
EX MANHOLE
RIM EL 696.06
INV EL 686.56 (N) 12"
INV EL 686.66 (W,E) 12"
- 11 STA. 499+55.02 95.23' RT
EX MANHOLE
RIM EL 696.01
INV EL 687.41 (S) 12"
INV EL 687.31 (E) 12"
- 12 STA. 500+22.21 16.97' RT
EX MANHOLE
RIM EL 696.34
(NO PIPES VISIBLE)
- 13 STA. 201+46.48 34.06' LT
EX INLET
RIM EL 695.37
INV EL 690.17 (S) 12"
- 14 STA. 506+42.19 16.55' RT
EX MANHOLE
RIM EL 695.65
INV EL 687.45 (N) 18"
INV EL 687.45 (E) 12"
INV EL 687.35 (S) 18"
- 15 STA. 193+41.83 0.35' LT
EX CATCH BASIN
RIM EL 694.42
INV EL 689.72 (NE) 12"
- 16 STA. 193+68.37 25.21' LT
EX MANHOLE
RIM EL 693.48
INV EL 689.48 (N) 18"
INV EL 688.98 (S) 18"
INV EL 687.28 (W) 18"
INV EL 687.18 (E) 18"
- 17 STA. 195+75.09 48.49' RT
EX CATCH BASIN
RIM EL 692.64
INV EL 689.34 (W) 18"
INV EL 689.44 (E) 18"
- 18 STA. 198+24.54 48.52' RT
EX CATCH BASIN
RIM EL 693.96
INV EL 690.76 (W) 18"
- 19 STA. 201+64.11 44.11' RT
EX CATCH BASIN
RIM EL 694.90
INV EL 691.30 (N) 12"
- 20 STA. 201+64.44 33.73' RT
EX INLET
RIM EL 695.28
INV EL 690.28 (N) 12"
INV EL 690.08 (N) 12"
- 21 STA. 202+96.39 32.96' RT
EX INLET
RIM EL 694.69
INV EL 689.59 (W) 12"
- 22 STA. 202+98.26 34.02' LT
EX INLET
RIM EL 694.80
INV EL 690.30 (S) 12"
- 23 STA. 203+91.08 54.41' LT
EX CATCH BASIN
RIM EL 691.25
INV EL 687.25 (S) 12"
- 24 STA. 203+96.43 40.02' LT
EX MANHOLE
RIM EL 694.92
INV EL 687.32 (S) 24"
INV EL 687.42 (NW,NE,E) 12"
- 25 STA. 204+08.19 54.21' LT
EX CATCH BASIN
RIM EL 690.61
INV EL 687.41 (W) 12"
- 26 STA. 203+95.10 39.62' LT
EX MANHOLE
RIM EL 693.45
INV EL 688.15 (N) 12"
INV EL 688.25 (W,E) 12"
- 27 STA. 203+94.08 56.16' RT
EX CATCH BASIN
RIM EL 689.27
INV EL XXX (X) X"
(PIPES UNDER WATER)
- 28 STA. 204+06.49 40.29' LT
EX MANHOLE
RIM EL 693.39
INV EL 689.29 (S) 12"
INV EL 689.19 (W) 12"
- 29 STA. 204+04.10 46.08' RT
EX CATCH BASIN
RIM EL 691.74
INV EL 688.54 (N) 12"
- 30 STA. 204+49.28 33.78' LT
EX INLET
RIM EL 694.19
INV EL 688.79 (N,S) 12"
- 31 STA. 204+41.31 33.91' LT
EX INLET
RIM EL 694.16
INV EL 688.86 (N,S) 12"
- 32 STA. 204+42.96 0.02' RT
EX CATCH BASIN
RIM EL 694.76
INV EL 691.36 (N) 12"
- 33 STA. 204+49.05 33.86' RT
EX INLET
RIM EL 694.08
INV EL 689.28 (N) 12"
- 34 STA. 204+43.81 33.88' RT
EX INLET
RIM EL 694.09
INV EL 689.29 (W) 12"
- 35 STA. 205+29.70 40.05' LT
EX MANHOLE
RIM EL 695.30
INV EL 689.20 (W) 15"
INV EL 689.30 (E) 15"
INV EL 689.30 (S) 12"
- 36 STA. 205+51.15 33.78' LT
EX INLET
RIM EL 694.65
INV EL 689.55 (W) 12"
- 37 STA. 205+47.06 33.77' RT
EX INLET
RIM EL 694.51
INV EL 689.11 (N) 12"
- 38 STA. 205+00.34 0.20' RT
EX CATCH BASIN
RIM EL 695.31
INV EL 690.01 (W) 12"
- 39 STA. 206+78.70 39.10' LT
EX MANHOLE
RIM EL 696.79
INV EL 690.29 (W) 15"
INV EL 690.49 (E) 15"
INV EL 690.49 (S) 12"
- 40 STA. 206+99.58 33.89' LT
EX INLET
RIM EL 696.41
INV EL 691.01 (W) 12"
- 41 STA. 206+99.68 33.80' RT
EX INLET
RIM EL 696.34
INV EL 691.14 (N) 12"
- 42 STA. 206+82.89 51.61' RT
EX CATCH BASIN
RIM EL 694.84
INV EL 691.64 (N) 12"



**OUTLET CONTROL STRUCTURE
STA. 195 + 00, 56.2' RT**

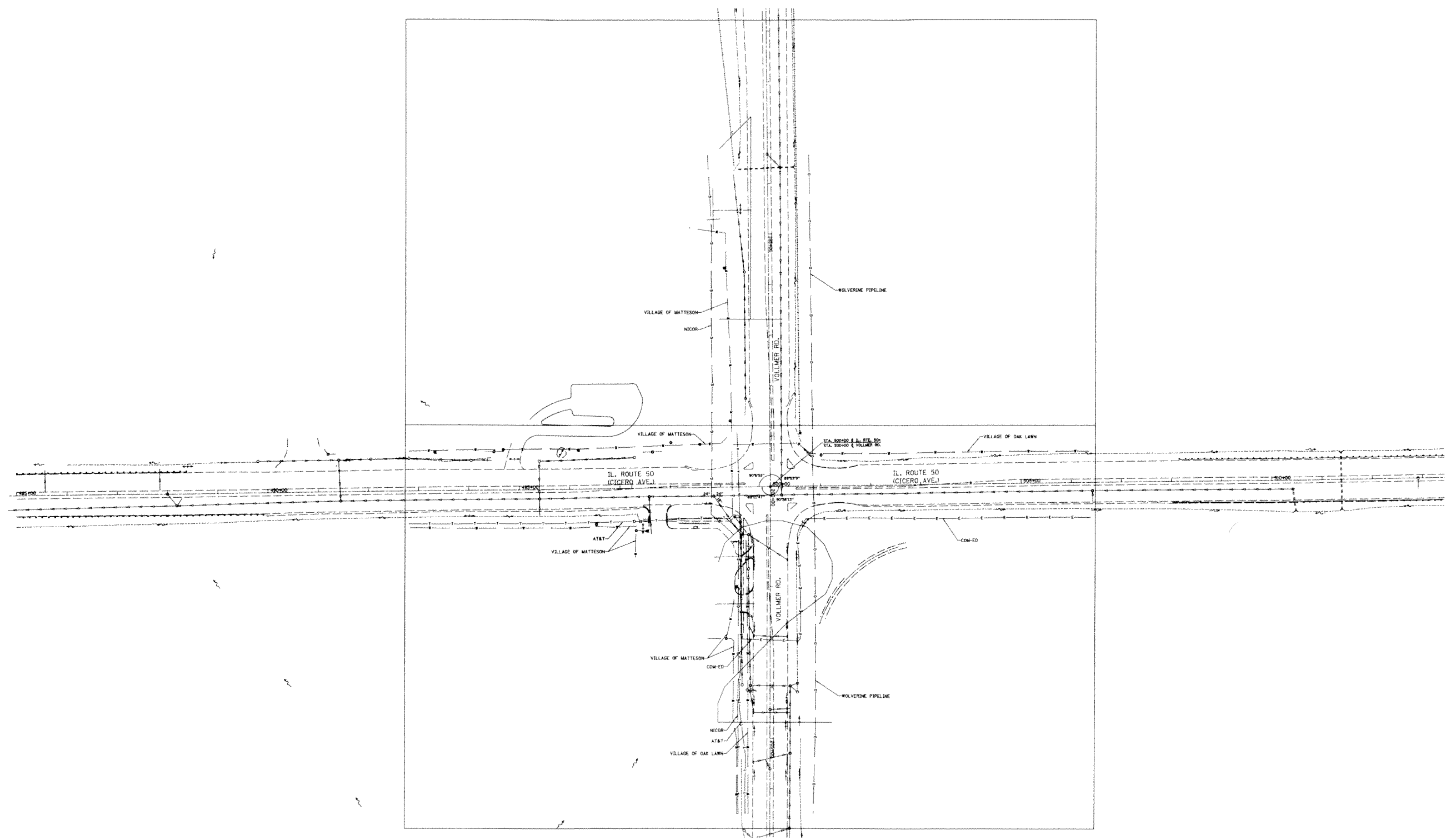
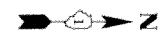


**OUTLET CONTROL STRUCTURE
STA. 495 + 40, 56.5' LT**

NOTE 1:
THE RESTRICTOR MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE TO SECTION 602 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THIS ITEM SHALL BE PAID FOR AS PAY ITEM: "X6020094 MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE"

FILE NAME = \$FILEL\$

USER NAME = \$USER\$ DESIGNED - DS/BFH DRAWN - DS/BFH PLOT SCALE = \$SCALE\$ PLOT DATE = \$DATE\$	DESIGNED - DS/BFH DRAWN - DS/BFH CHECKED - BA DATE - 7/2/14	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING DRAINAGE INFORMATION & PROPOSED RESTRICTOR MANHOLE DETAILS IL ROUTE 50 AT VOLLMER ROAD	F.A.P. RTE. 350 SECTION 101N-2(12) COUNTY COOK TOTAL SHEETS 73 SHEET NO. 31 CONTRACT NO. 60V99
SCALE: 1"=50'			SHEET 3 OF 3 SHEETS		STA. TO STA.
ILLINOIS FED. AID PROJECT					

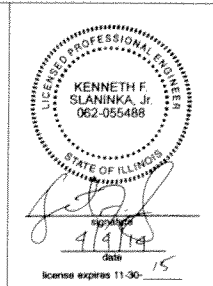


—A—A—A—	AERIAL
—O—O—O—	OIL
— — — —	UNKNOWN
—CTV—CTV—CTV—	CABLE TV
—T—T—T—	TELEPHONE
—G—G—G—	GAS
—E—E—E—	ELECTRIC
—W—W—W—	WATER
—FO—FO—FO—	FIBER OPTIC
⊕	TBE TEST HOLE

UTILITY OWNERS	
AT&T	TELEPHONE
COM-ED	ELECTRIC
NICOR	GAS
VILLAGE OF MATTESON	WATER
VILLAGE OF OAK LAWN	WATER
WOLVERINE PIPELINE	OIL

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 3/15/14 through 4/01/14. Changes to utilities after 4/01/14 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B"
UNLESS NOTED OTHERWISE.



**Cardno
TBE**

Dynasty Group
Engineers & Surveyors

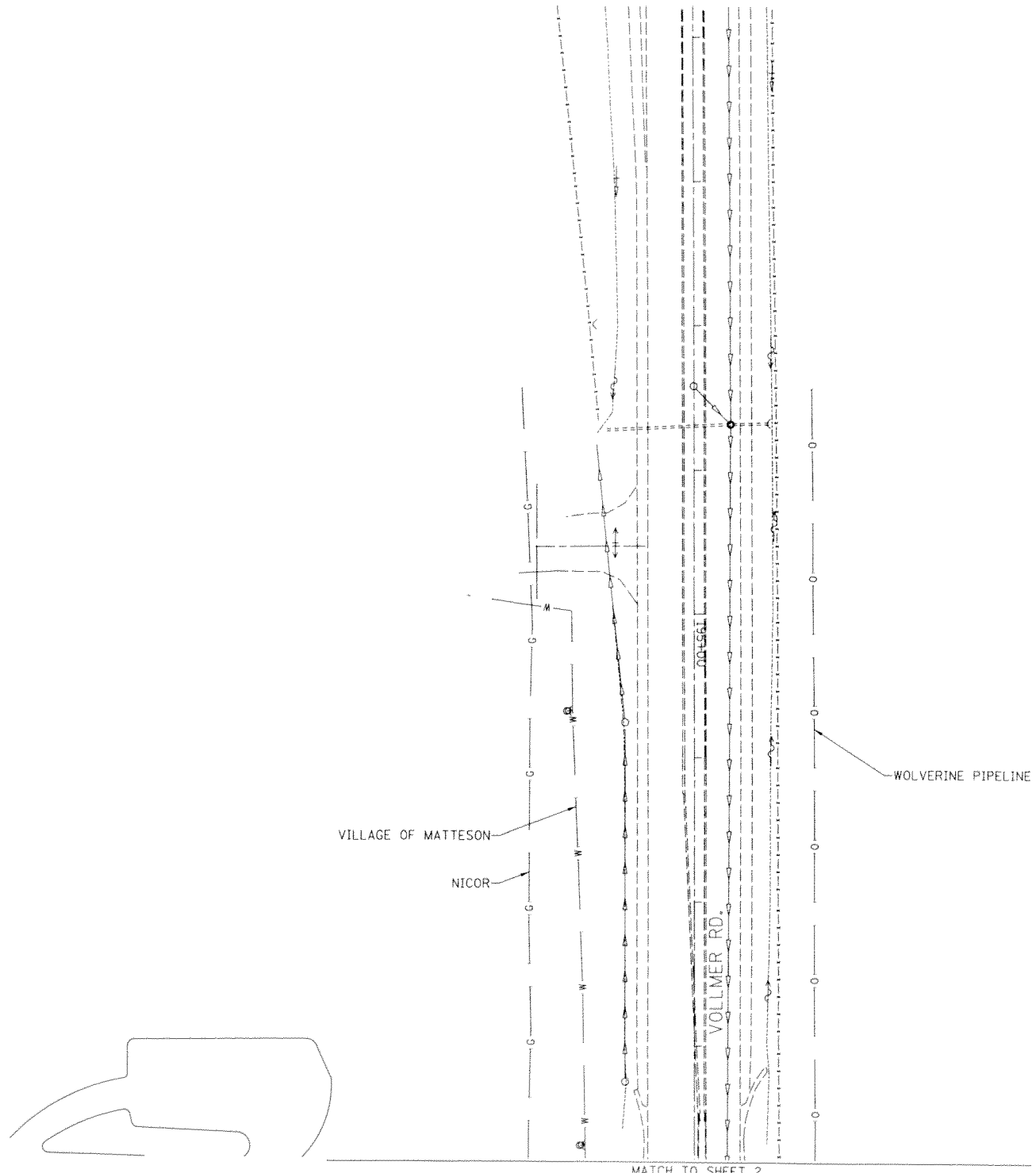
TBE Job No. IL09510567
SUE Plan Page: Cover

Utility Quality Level "A" : Visually Verified Test Hole	DESIGNED ER	REVISED
Utility Quality Level "B" : Designating/non Visually Verified Test Hole	DRAWN SRK	REVISED
Utility Quality Level "C" : Research with Survey	CHECKED KFS	REVISED
Utility Quality Level "D" : Records Research	DATE 4/03/14	REVISED

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

IL RT. 50 at Vollmer Road
Matteson, Illinois

F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	32
Contract No. 60V99				
FED. ROAD DIST. NO. [ILLINOIS] IDOT Project No.				

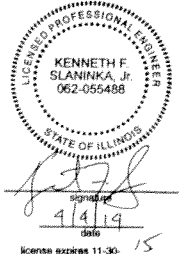


— A — A —	AERIAL
— O — O —	OIL
- - - - -	UNKNOWN
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
⊕	TBE TEST HOLE

UTILITY OWNERS	
AT&T -	TELEPHONE
COM-ED -	ELECTRIC
NICOR -	GAS
VILLAGE OF MATTESON -	WATER
VILLAGE OF OAK LAWN -	WATER
WOLVERINE PIPELINE -	OIL

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TBE Job No. IL09510567
SUE Plan Page: 1 of 2

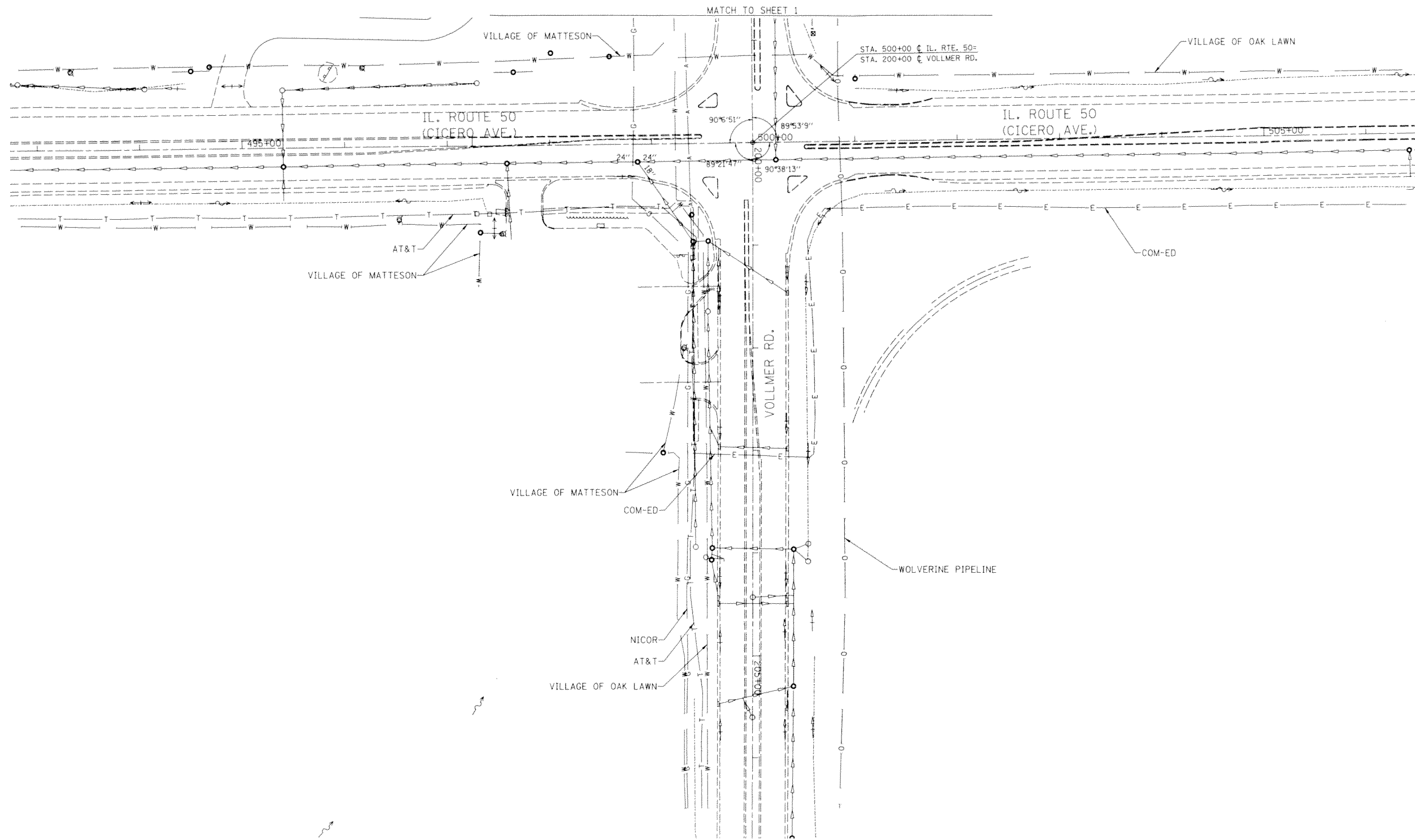
Utility Quality Level "A" : Visually Verified Test Hole
 Utility Quality Level "B" : Designating/non Visually Verified Test Hole
 Utility Quality Level "C" : Research with Survey
 Utility Quality Level "D" : Records Research

DESIGNED	ER	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	4/03/14	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RT. 50 at Vollmer Road
Matteson, Illinois

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	N7W 101N-2(12)	COOK	73	33
FED. ROAD DIST. NO. [ILLINOIS] IDOT Project No.			Contract No. 60V99	

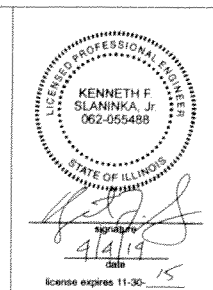


— A — A —	AERIAL
— O — O —	OIL
- - - - -	UNKNOWN
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
⊙	TBE TEST HOLE

UTILITY OWNERS	
AT&T	TELEPHONE
COM-ED	ELECTRIC
NICOR	GAS
VILLAGE OF MATTESON	WATER
VILLAGE OF OAK LAWN	WATER
WOLVERINE PIPELINE	OIL

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 3/15/14 through 4/01/14. Changes to utilities after 4/01/14 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510567
SUE Plan Page: 2 of 2

Utility Quality Level "A": Visually Verified Test Hole
 Utility Quality Level "B": Designating/non Visually Verified Test Hole
 Utility Quality Level "C": Research with Survey
 Utility Quality Level "D": Records Research

DESIGNED	ER	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	4/03/14	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RT. 50 at Vollmer Road
Matteson, Illinois

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	N7W 101N-2(12)	COOK	73	34

FED. ROAD DIST. NO.	ILLINOIS IDOT Project No.

PART OF THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 10, TWP. 35 N., R. 13 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT SQUARE FEET	EASEMENT PURPOSE	PARCEL INDEX NUMBER
OKG0001TE	73.92				0.066			31-10-300-001

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded

COORDINATE TABLE				
ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (2011 ADJUSTMENT)				
(PT)	STATION	OFFSET	NORTH	EAST
1	500+69.44	94.90' Rt.	1771244.981	1148839.754
2	500+83.71	80.83' Rt.	1771258.993	1148825.502
3	501+34.42	181.08' Rt.	1771311.073	1771311.073
4	501+44.80	191.41' Rt.	1771321.541	1148935.263
5	501+44.82	170.27' Rt.	1771321.332	1148914.122
6	501+59.70	156.87' Rt.	1771336.030	1148900.518
7	501+71.67	147.57' Rt.	1771347.828	1148891.089
8	501+82.32	158.28' Rt.	1771358.676	1148901.833

LEGEND

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET

THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

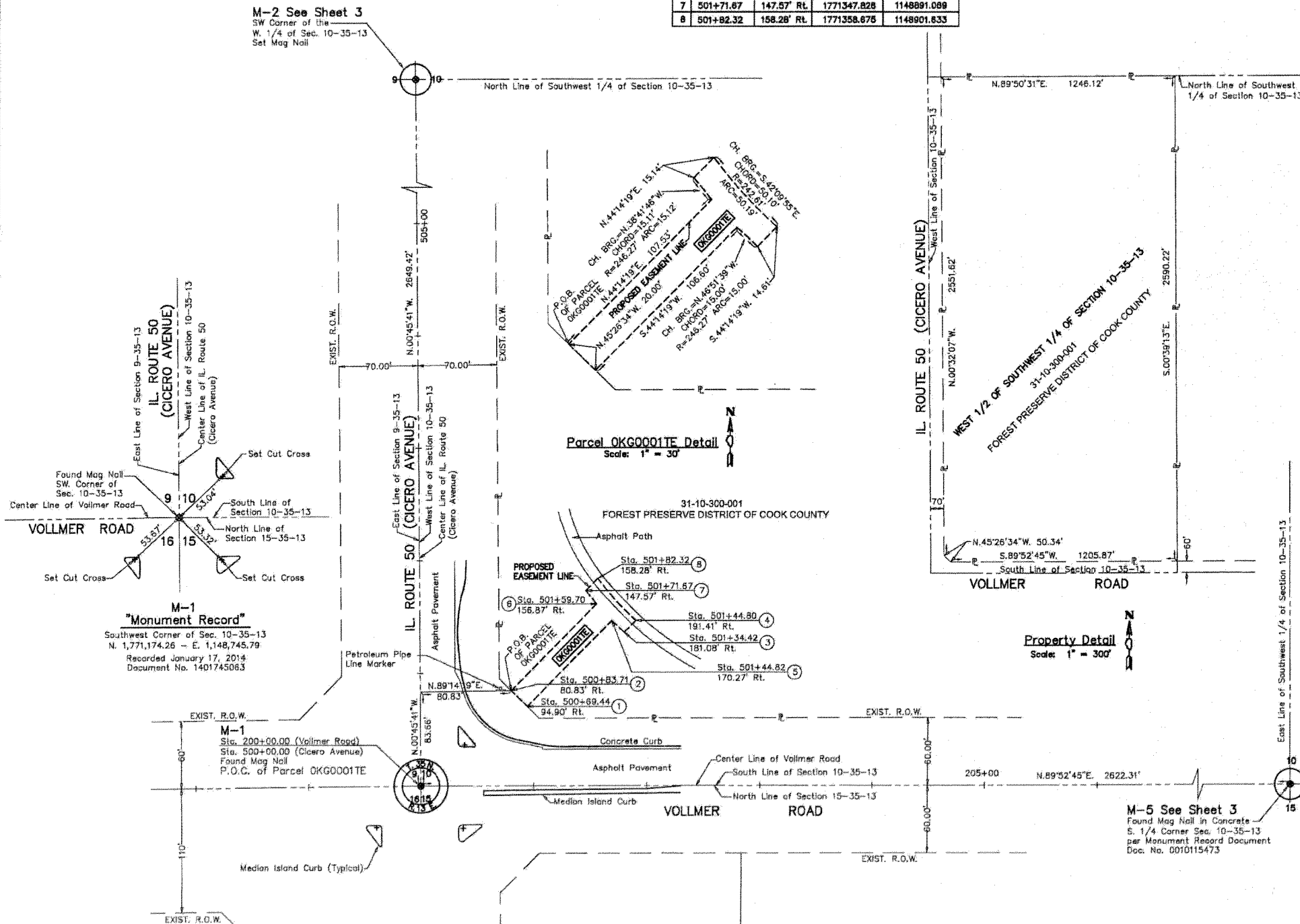
STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
COUNTY OF KENDALL)

SCALE: 1" = 50'



BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99987849. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

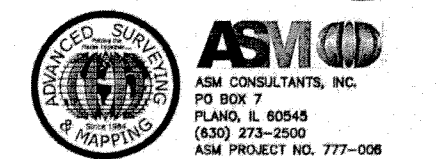
STATE OF ILLINOIS)
COUNTY OF KENDALL)

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 10, TOWNSHIP 35 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT PLANO, ILLINOIS THIS 17th DAY OF JANUARY 2014, A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2952
LICENSE EXPIRATION DATE: 11/30/2014.

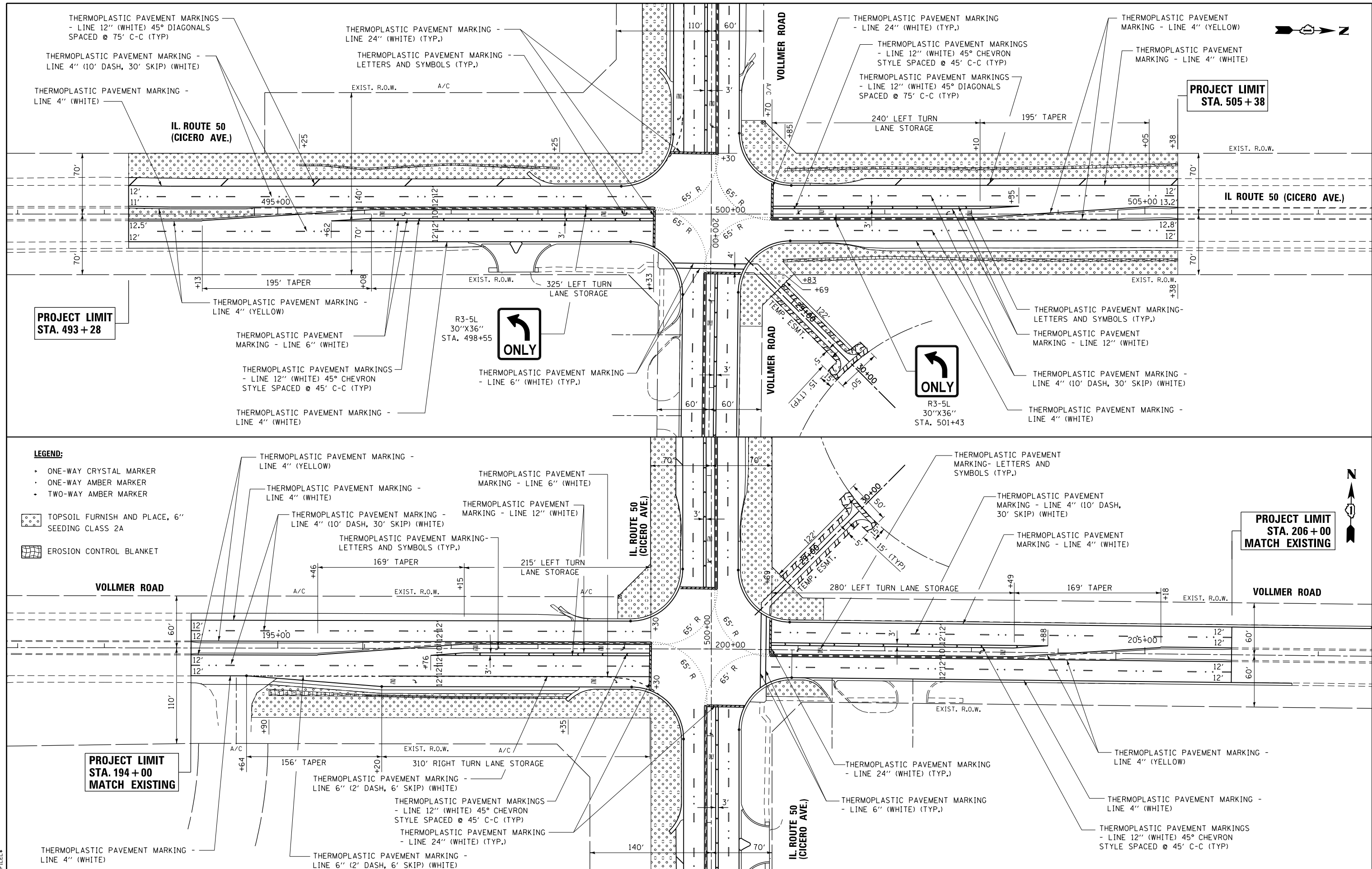
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL ROUTE 50 (CICERO AVENUE)

SECTION: IL Rt. 50 at Vollmer Rd. COOK COUNTY
PROJECT: JOB NO. R-90-016-13
STATION: 500+69.44 TO STATION: 501+82.32
SCALE: 1" = 50' SHEET 2 OF 3

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196



**PROJECT LIMIT
STA. 493 + 28**

**PROJECT LIMIT
STA. 505 + 38**

LEGEND:

- ▶ ONE-WAY CRYSTAL MARKER
- ▶ ONE-WAY AMBER MARKER
- ▶ TWO-WAY AMBER MARKER
- ▨ TOPSOIL FURNISH AND PLACE, 6" SEEDING CLASS 2A
- ▨ EROSION CONTROL BLANKET

**PROJECT LIMIT
STA. 194 + 00
MATCH EXISTING**

**PROJECT LIMIT
STA. 206 + 00
MATCH EXISTING**

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING, SIGNING AND LANDSCAPING PLAN
IL ROUTE 50 AT VOLLMER ROAD**

USER NAME = *USER*	DESIGNED - DS/BFH	REVISED -
PLOT SCALE = *SCALE*	DRAWN - DS/BFH	REVISED -
PLOT DATE = *DATE*	CHECKED - BA	REVISED -
	DATE - 7/2/14	REVISED -

F.A.P. RTE. 350	SECTION 101N-2(12)	COUNTY COOK	TOTAL SHEETS 73	SHEET NO. 37
SCALE: 1"=50'				CONTRACT NO. 60V99
ILLINOIS FED. AID PROJECT				

FILE NAME = \$FILEL\$

SHT.PLAN

TRAFFIC SIGNAL LEGEND

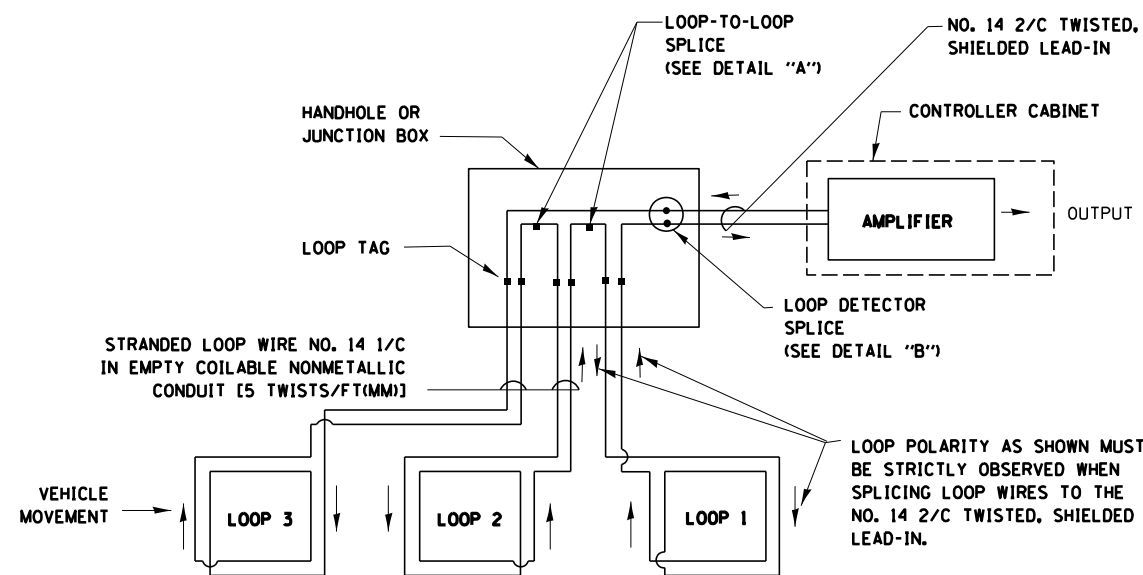
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS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

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

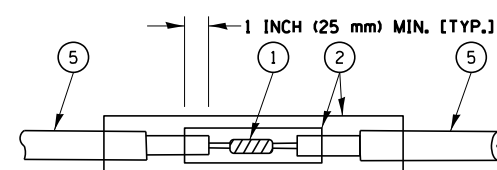
LOOP DETECTOR NOTES

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

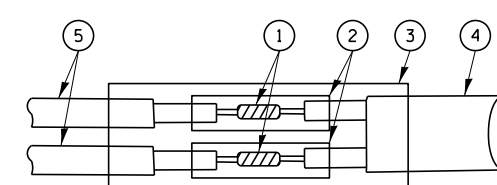


DETECTOR LOOP WIRING SCHEMATIC

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



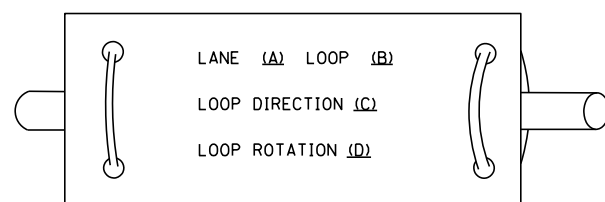
**DETAIL "A"
LOOP-TO-LOOP SPLICE**



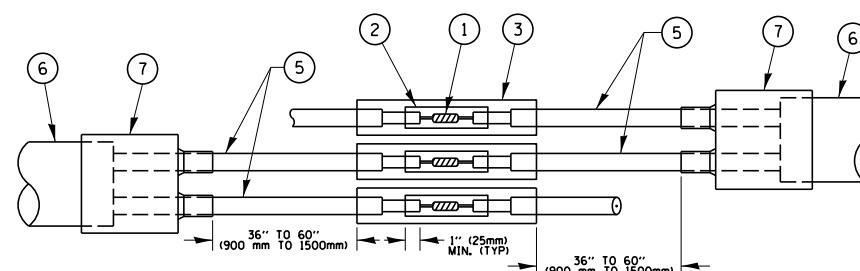
**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP

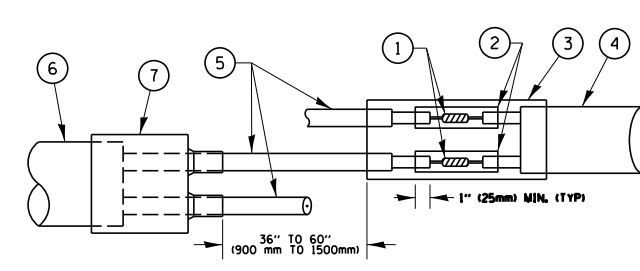
LOOP LEAD-IN CABLE TAG



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



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

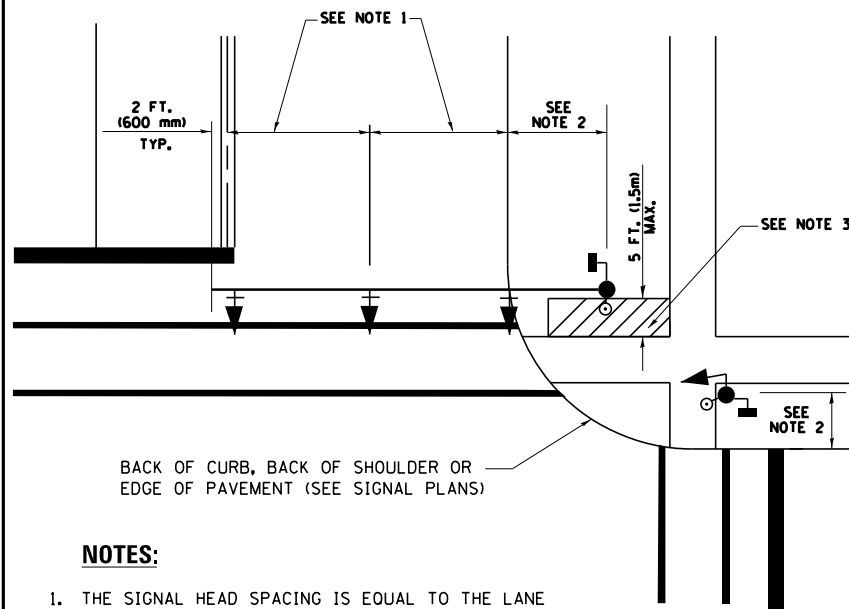


**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

LOOP DETECTOR SPLICE

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

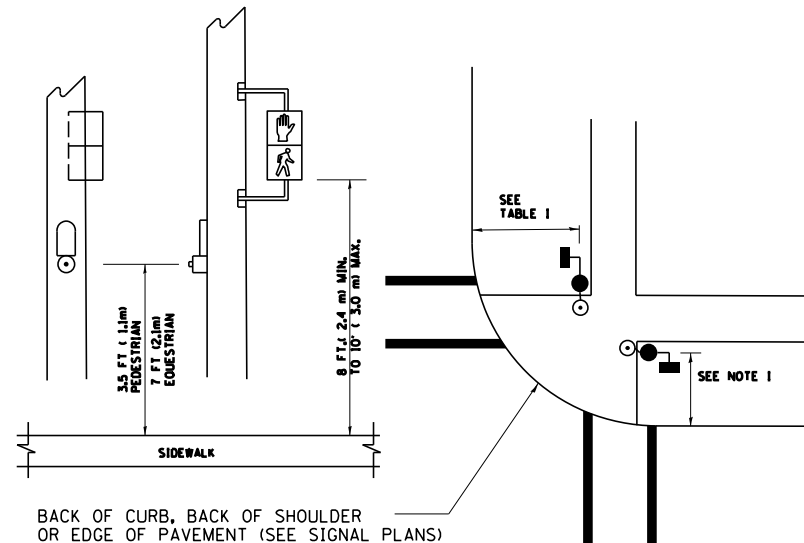
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

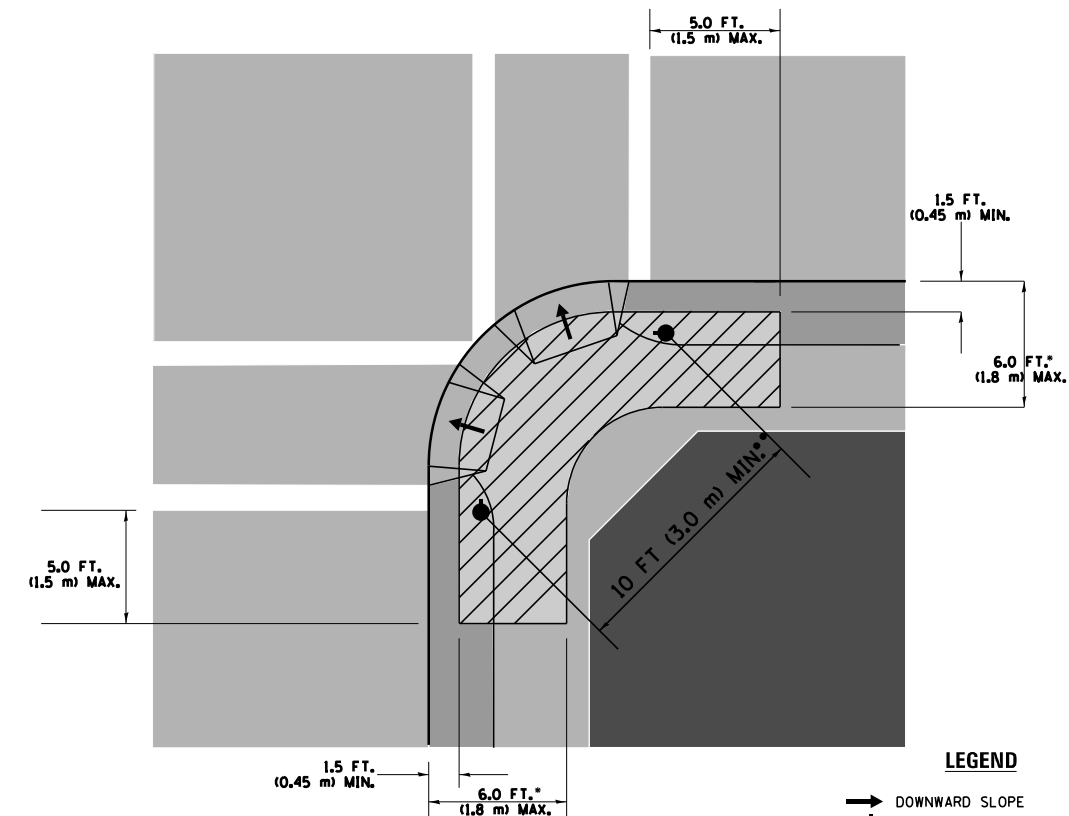
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

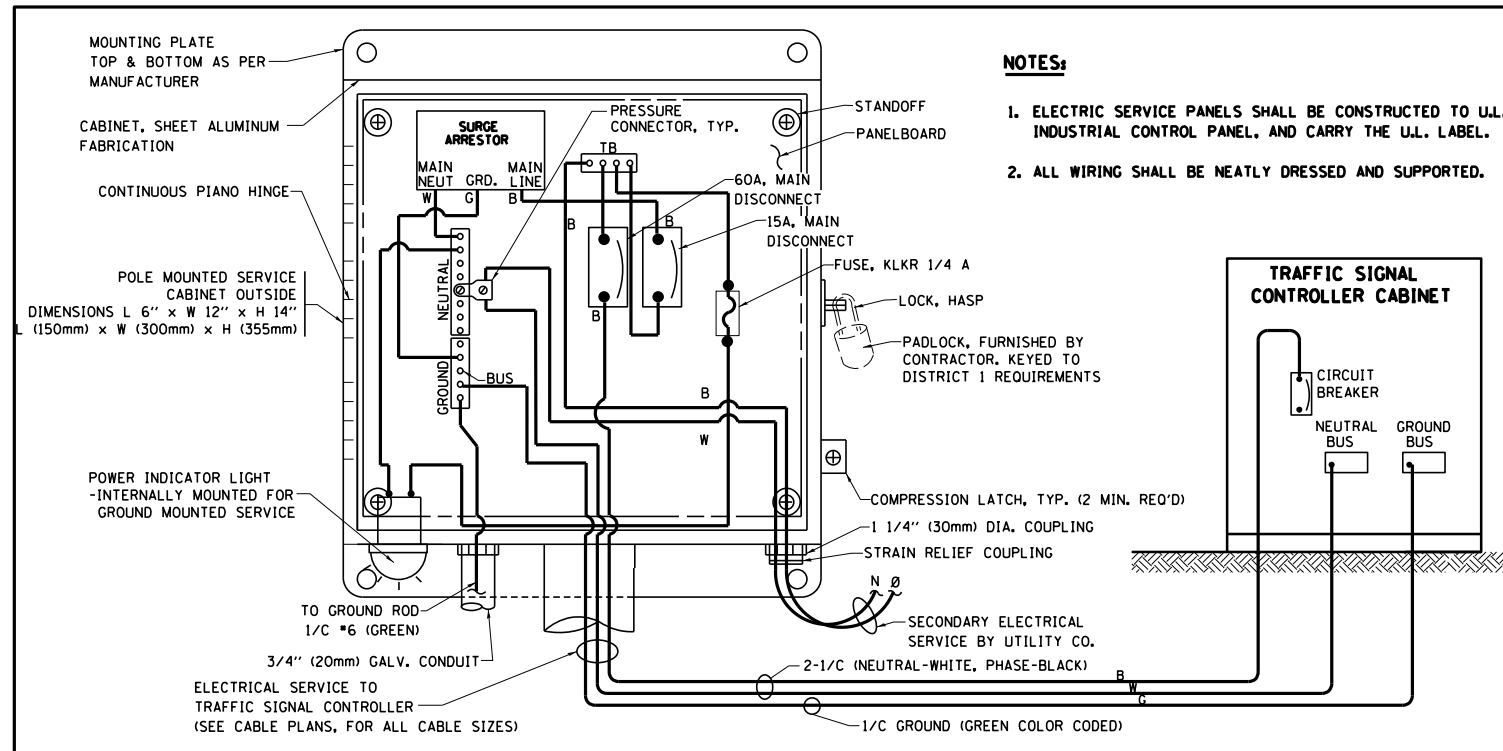
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

TRAFFIC SIGNAL EQUIPMENT OFFSET

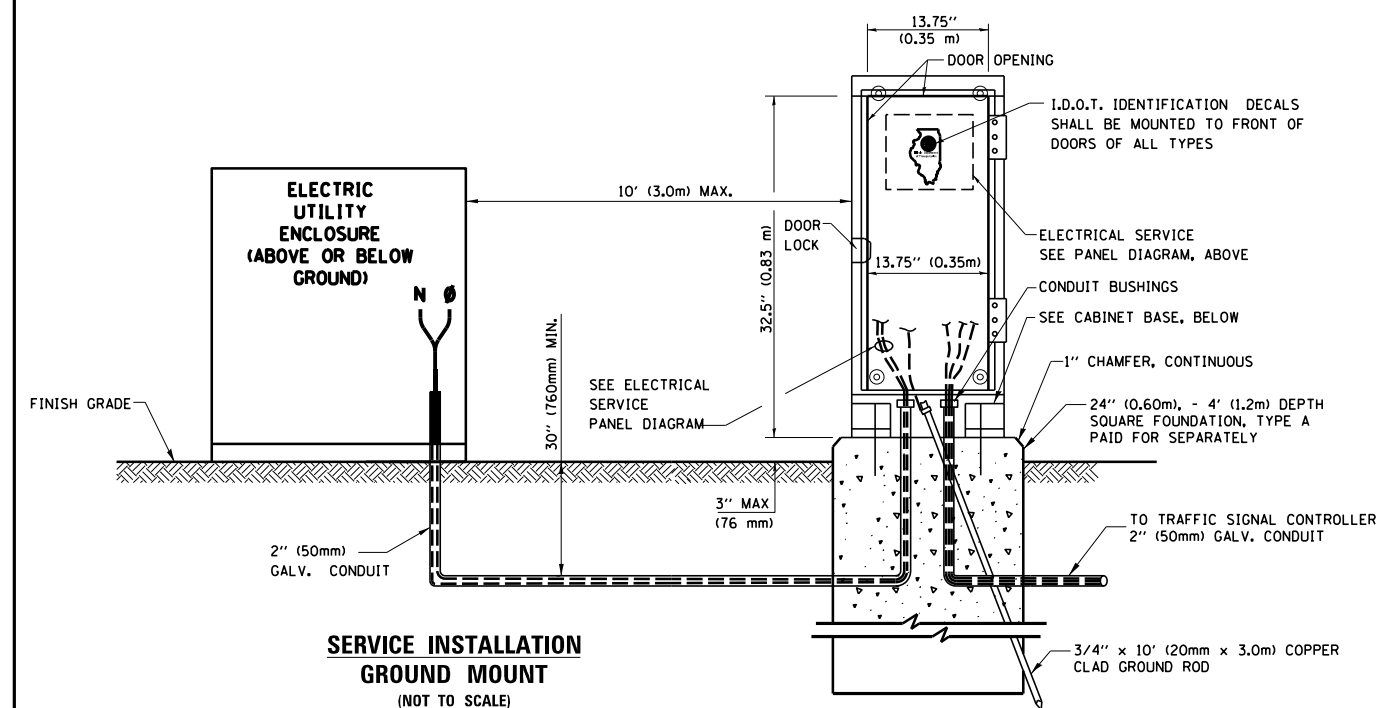
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

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

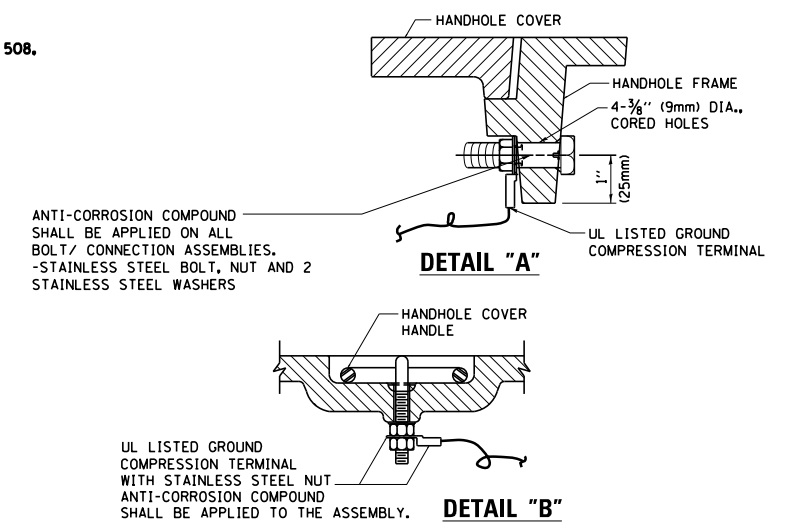
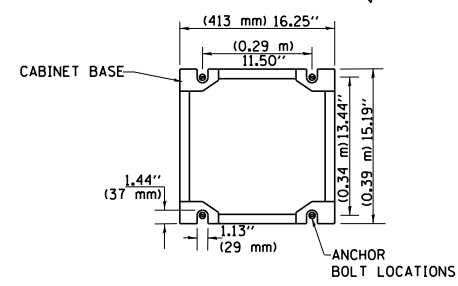


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



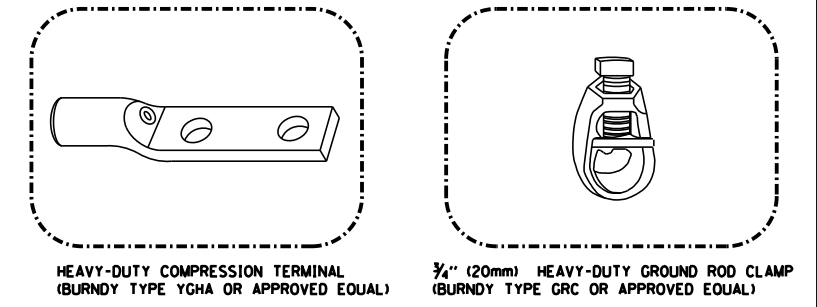
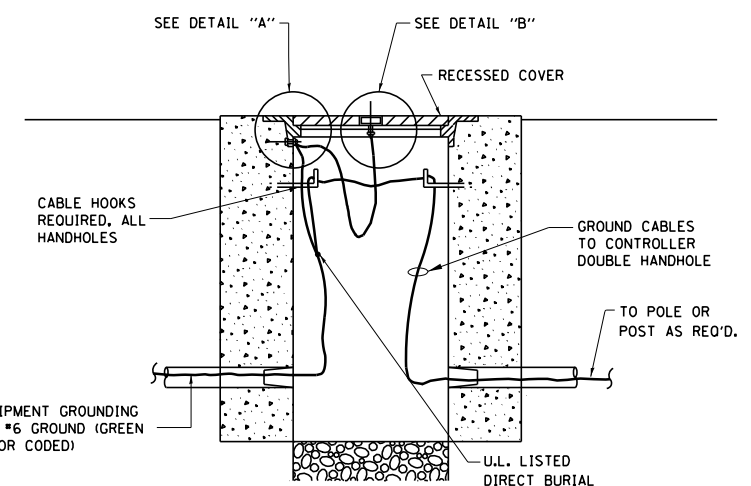
SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



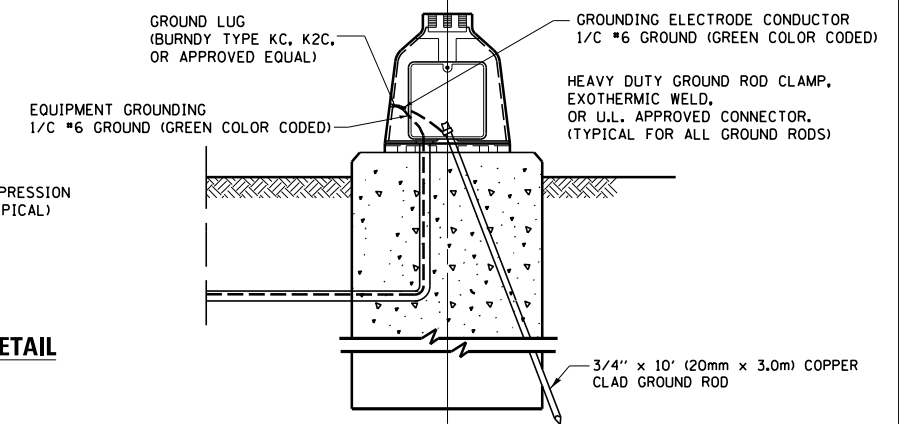
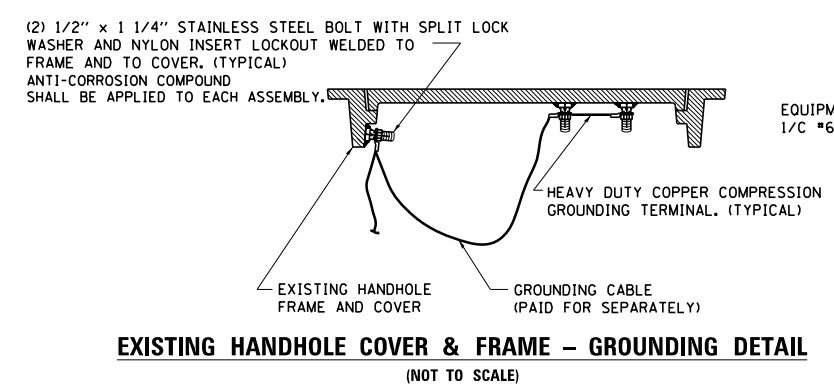
NOTES:
GROUNDING SYSTEM

- 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.

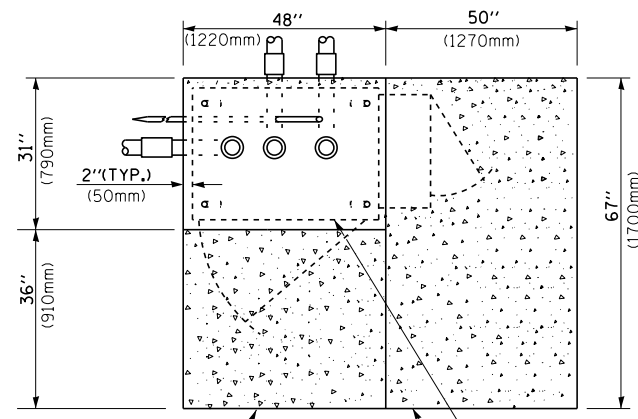


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	PLOT DATE = 6/20/2014	DATE - 10-28-09	REVISED -

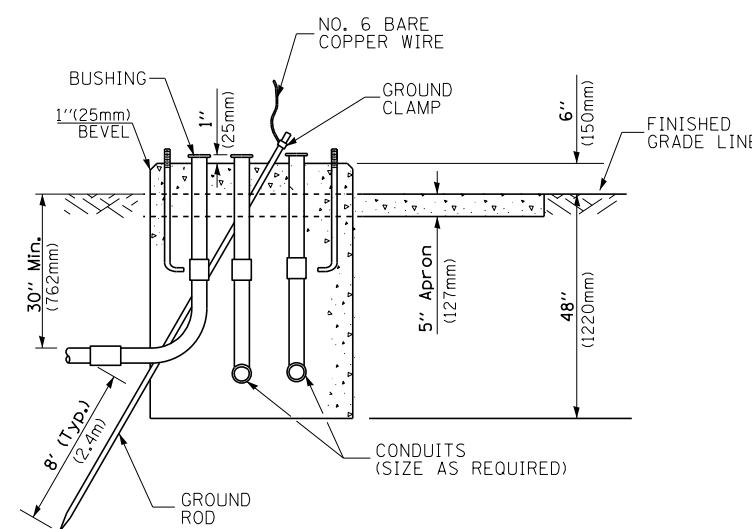
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA. TO STA.	

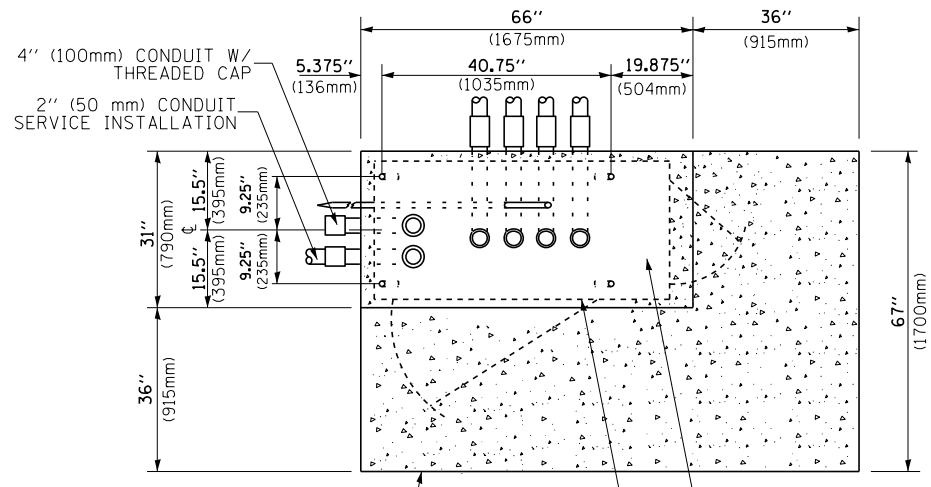
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TS-05		CONTRACT NO. 60V99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



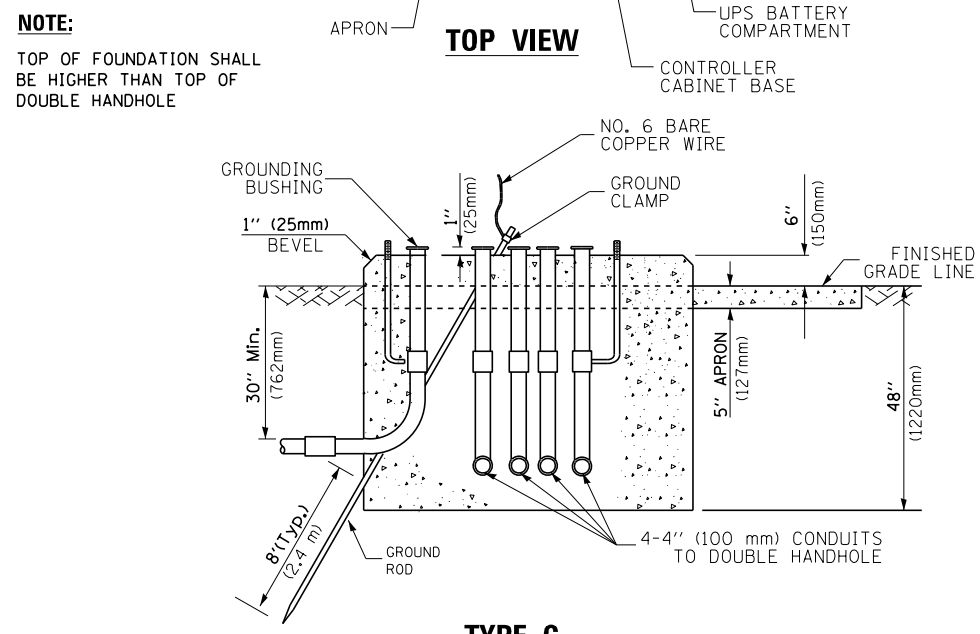
TOP VIEW



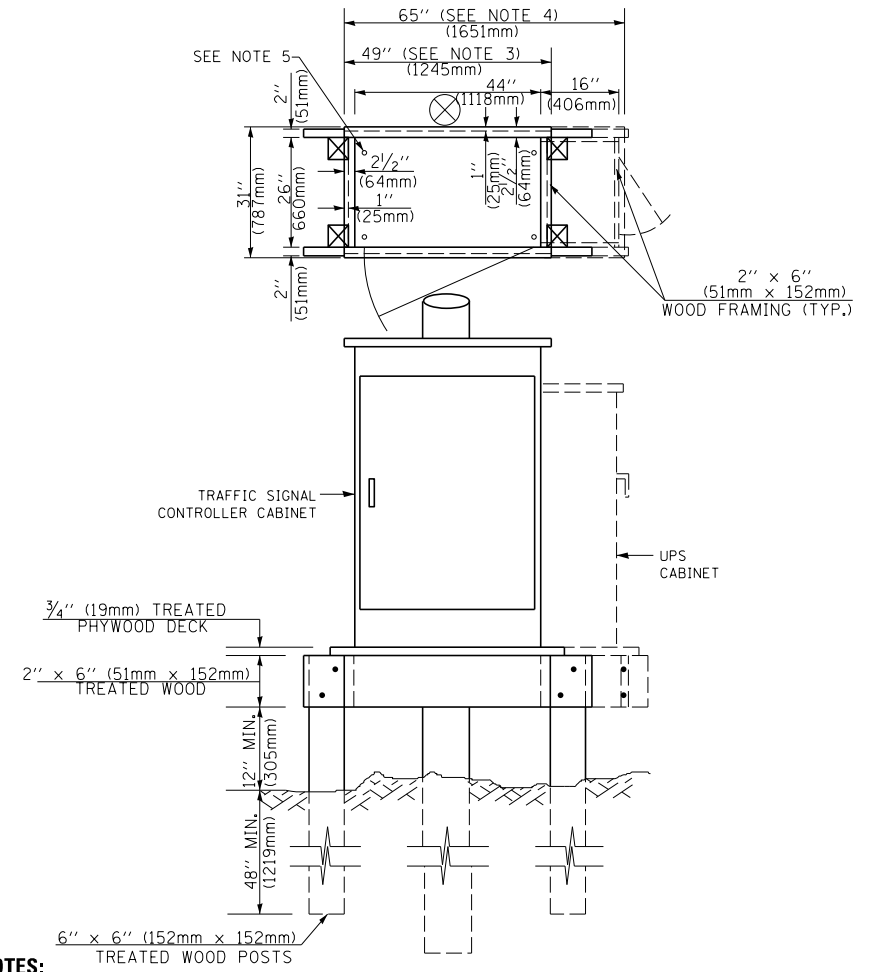
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

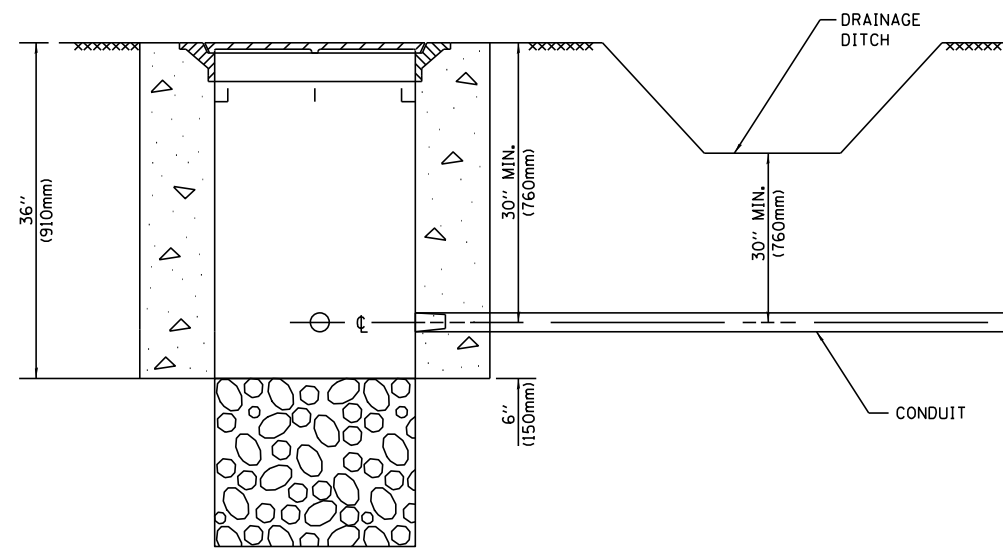
DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	24" (600mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

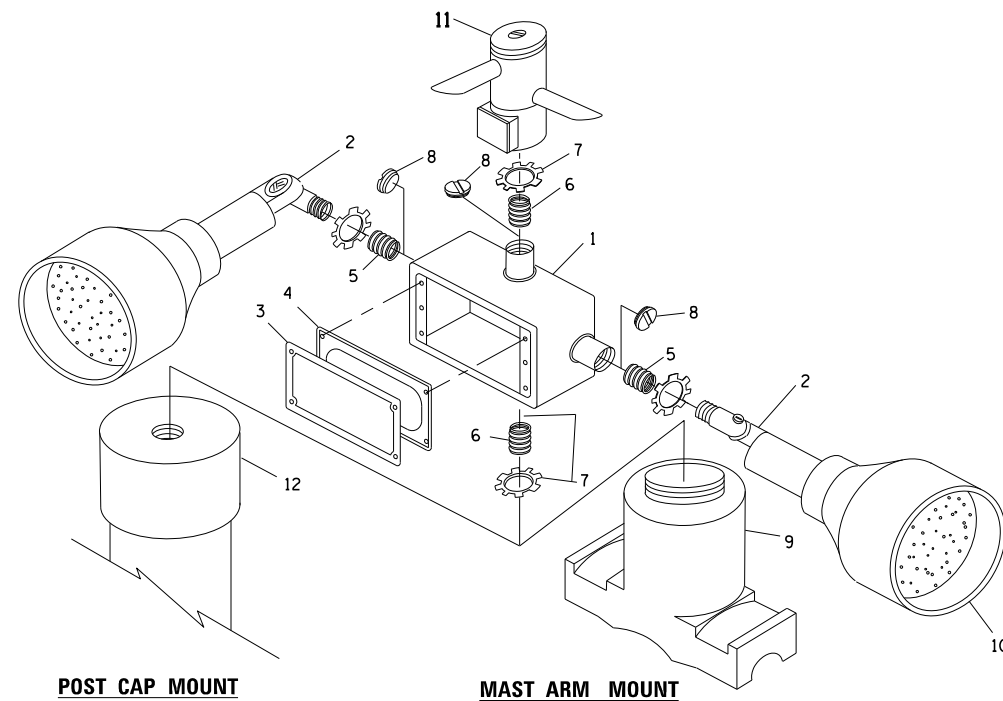
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

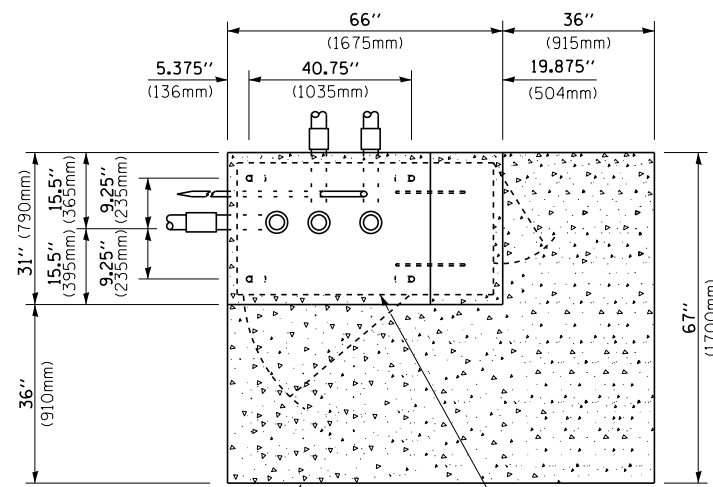


POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

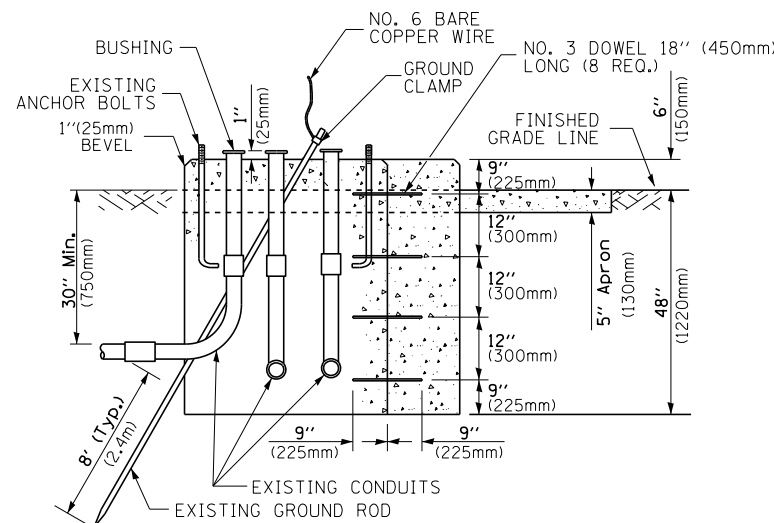
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

NOTES:

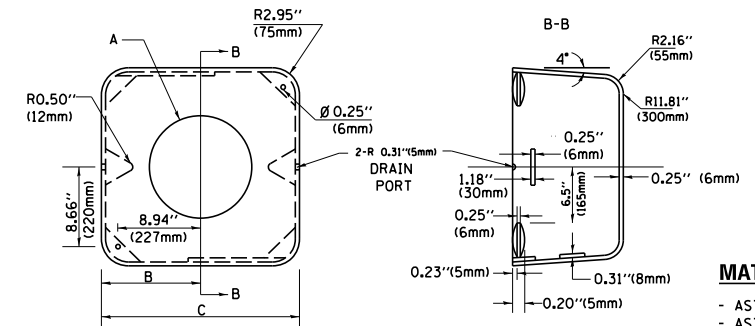
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE 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.



TOP VIEW
(NOT TO SCALE)



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



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

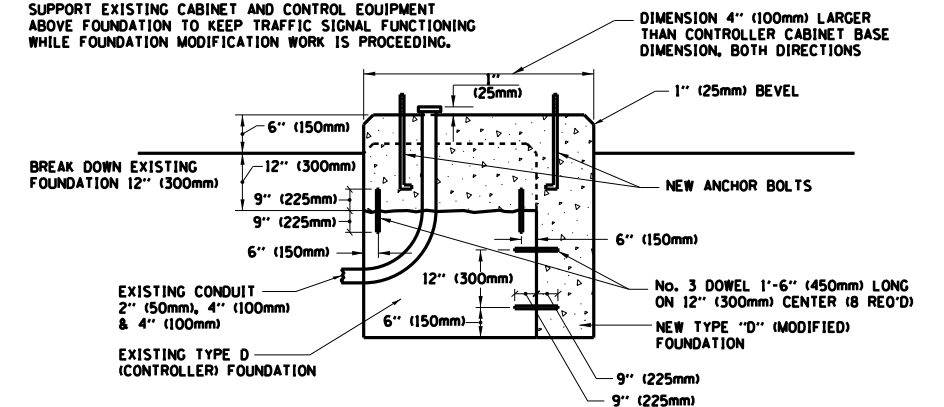
SHROUD

NOTES:

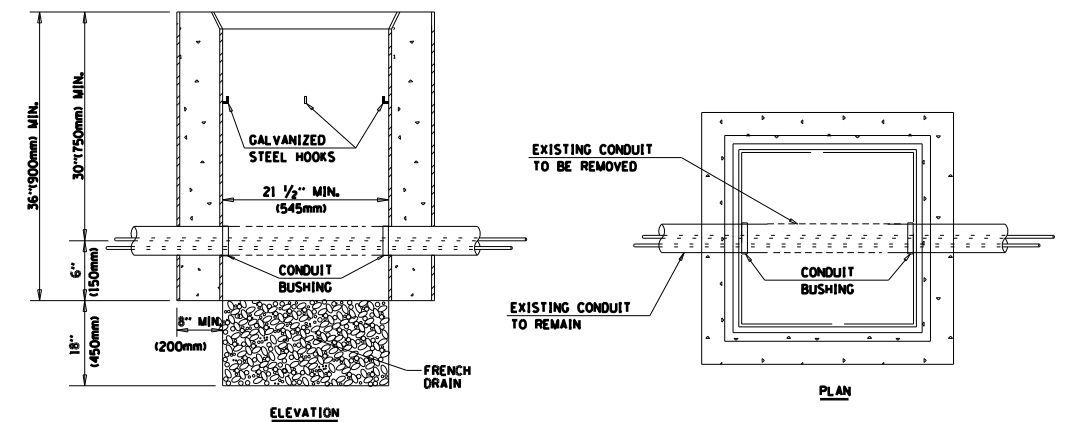
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

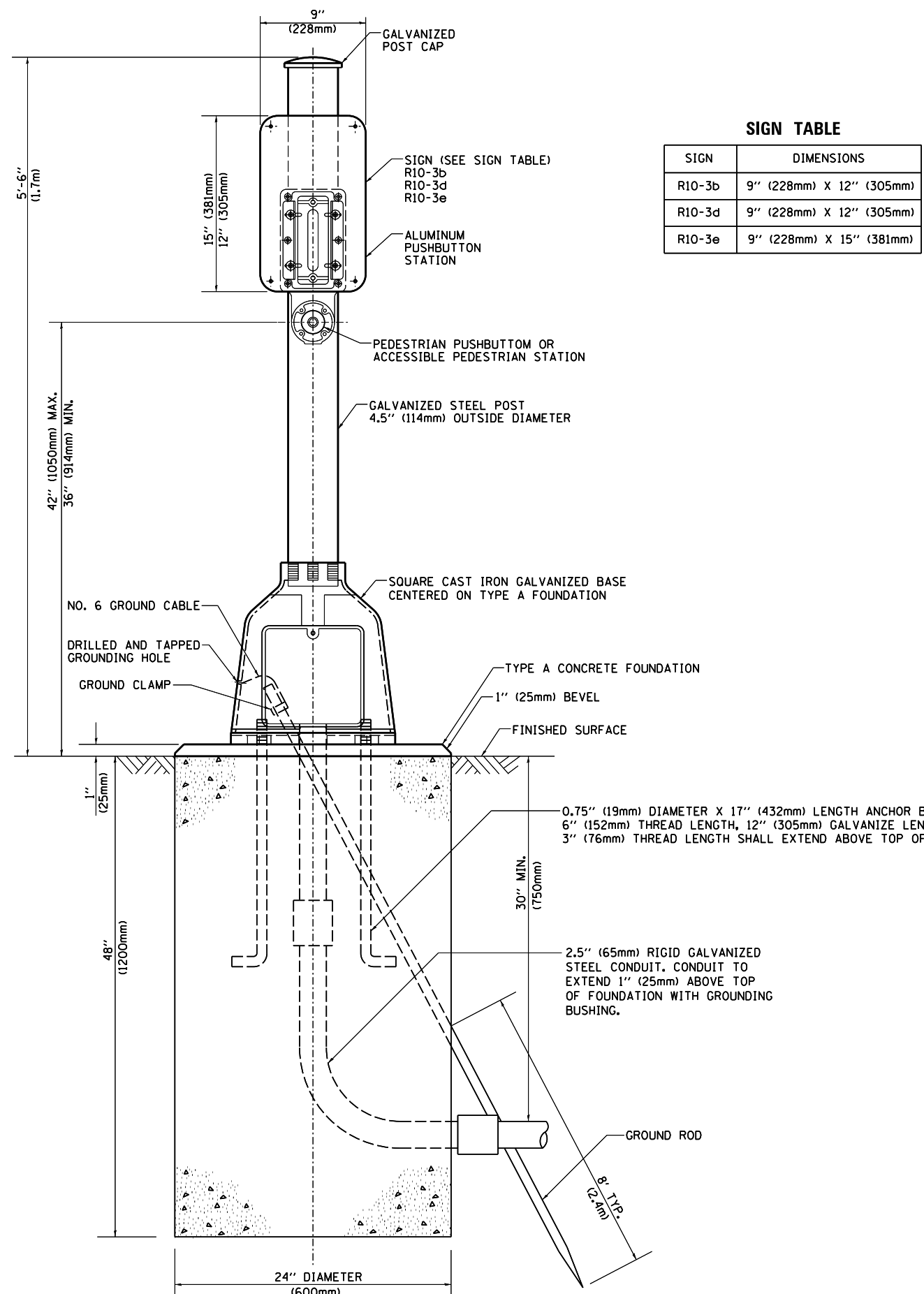
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	PLOT DATE = 6/20/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

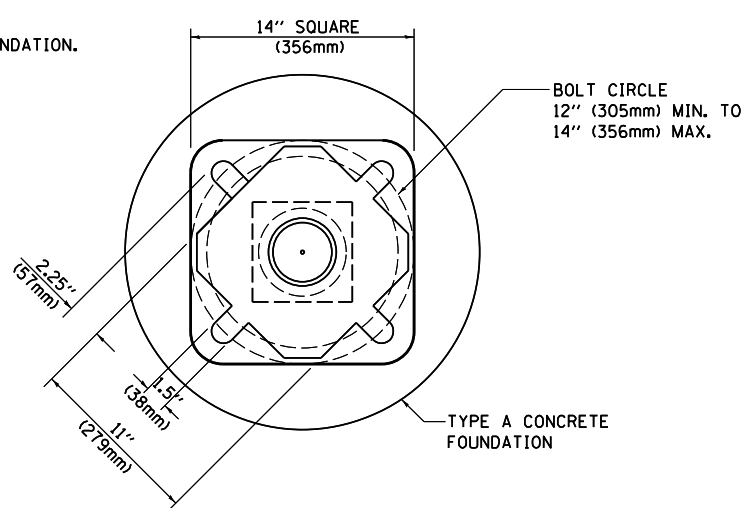
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	10IN-2 (12)	COOK	73	43
	TS-05			CONTRACT NO. 60V99
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

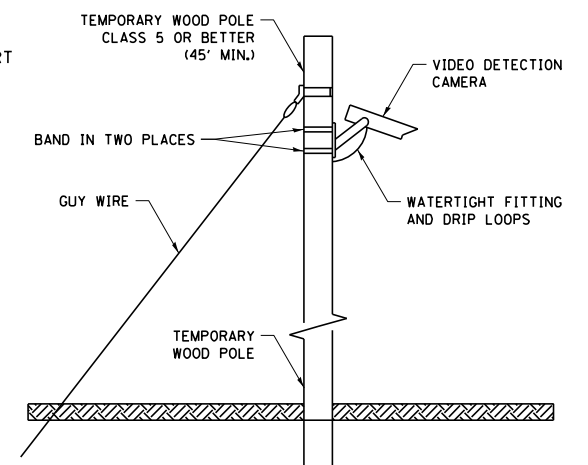
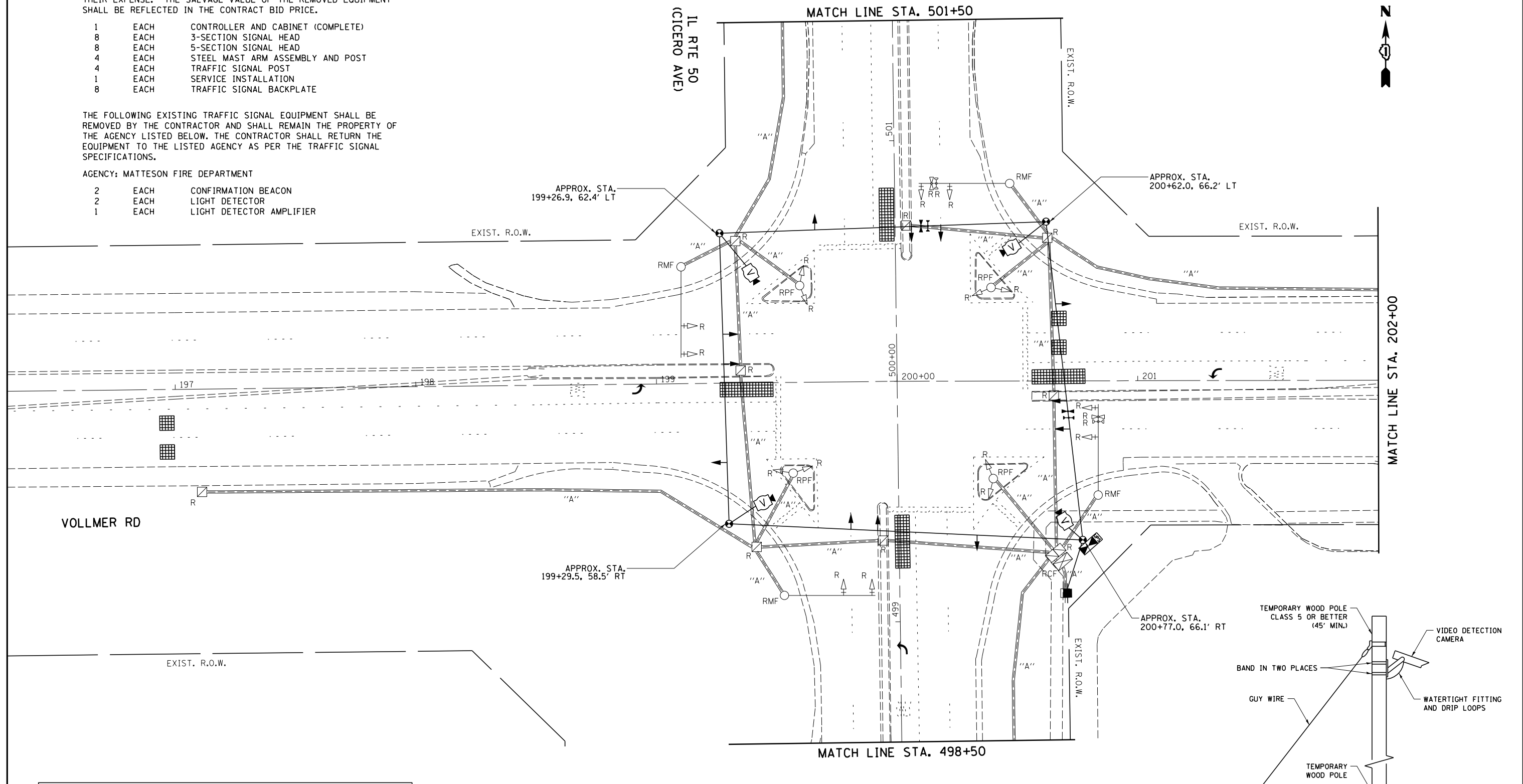
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- | | | |
|---|------|-----------------------------------|
| 1 | EACH | CONTROLLER AND CABINET (COMPLETE) |
| 8 | EACH | 3-SECTION SIGNAL HEAD |
| 8 | EACH | 5-SECTION SIGNAL HEAD |
| 4 | EACH | STEEL MAST ARM ASSEMBLY AND POST |
| 4 | EACH | TRAFFIC SIGNAL POST |
| 1 | EACH | SERVICE INSTALLATION |
| 8 | EACH | TRAFFIC SIGNAL BACKPLATE |

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL RETURN THE EQUIPMENT TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: MATTESON FIRE DEPARTMENT

- | | | |
|---|------|--------------------------|
| 2 | EACH | CONFIRMATION BEACON |
| 2 | EACH | LIGHT DETECTOR |
| 1 | EACH | LIGHT DETECTOR AMPLIFIER |

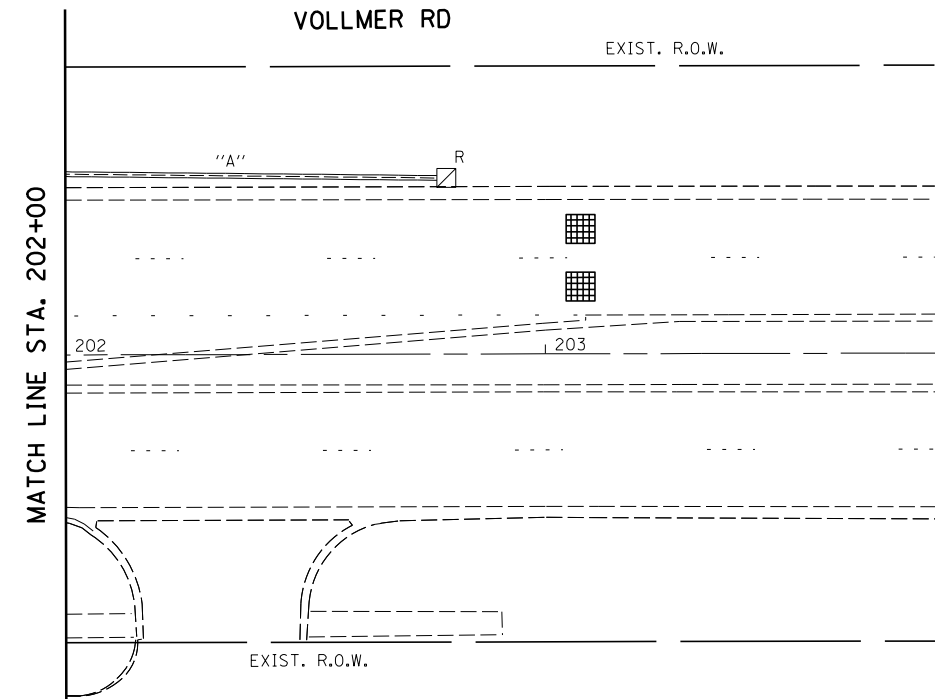
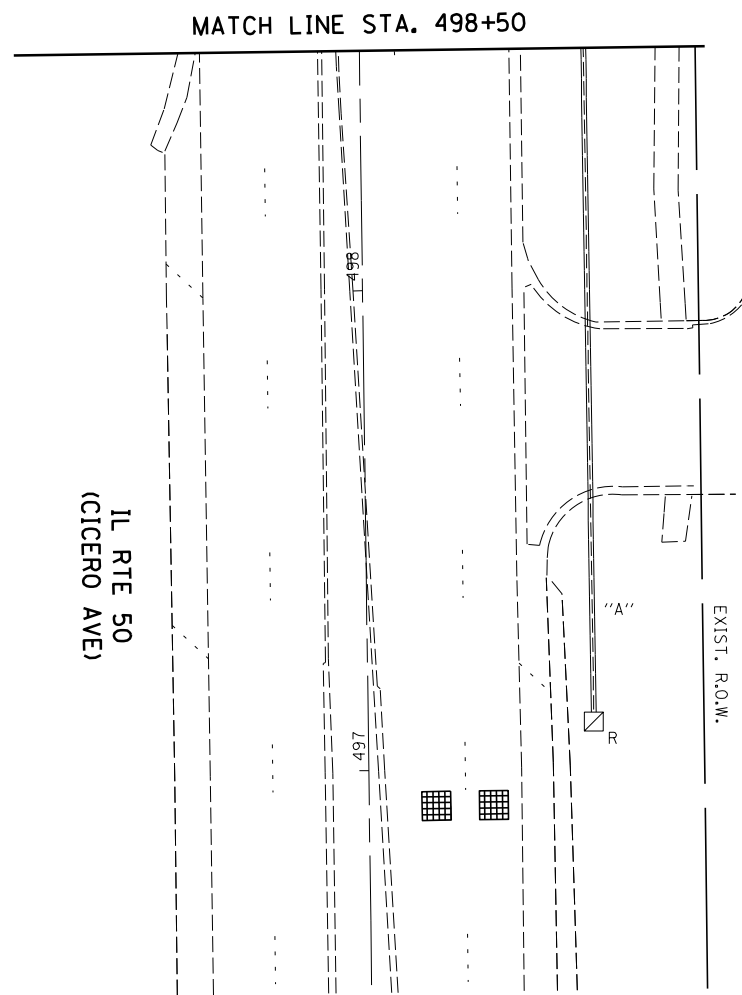
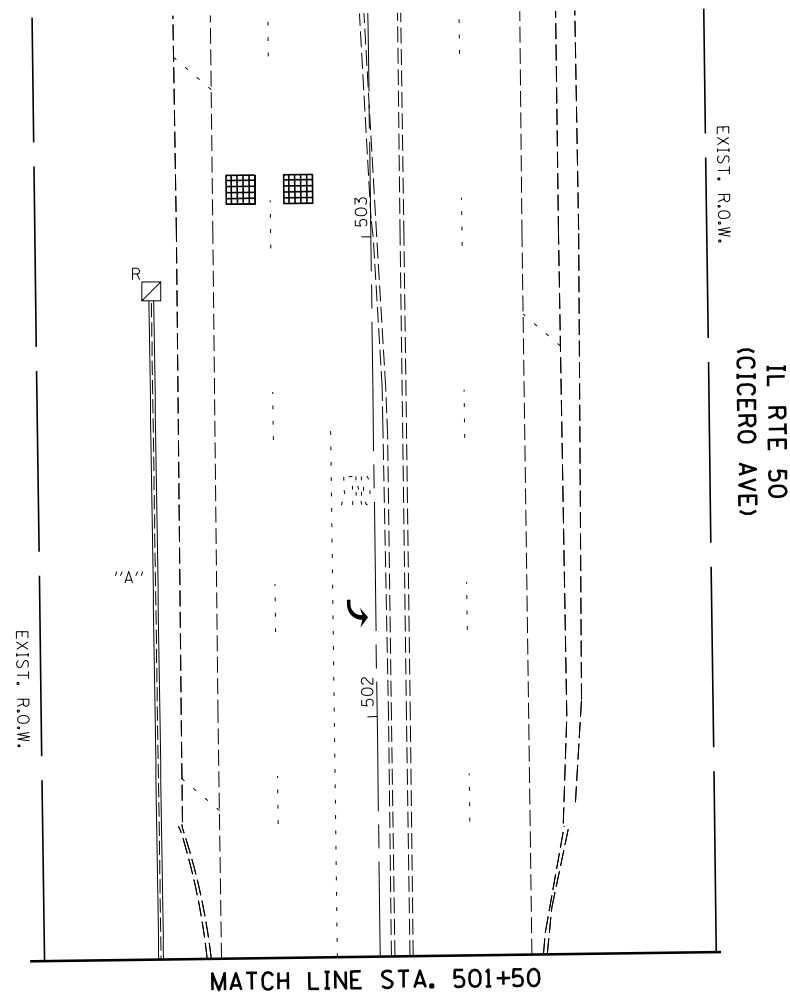


TEMPORARY VIDEO DETECTION MOUNTING DETAIL

(NOT TO SCALE)

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN 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, MEDIAN, 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.

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED - IP 8-8-2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (1 OF 2) IL RTE 50 (CICERO AVE) AND VOLLMER RD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Plot Scale = 40.0000' / in.	CHECKED - LP	REVISED -			350	101N-2 (12)	COOK	73	45	
	PLOT DATE = 8/11/2014	DATE - 6-6-2014	REVISED -			CONTRACT NO. 60V99					
						ILLINOIS FED. AID PROJECT					



TEMPORARY TRAFFIC SIGNAL NOTES

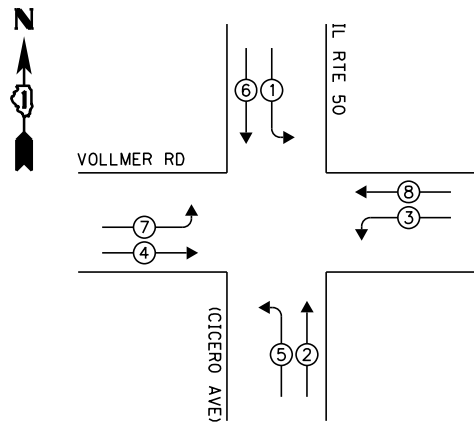
1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12 INCHES (300 MM). TRAFFIC SIGNAL SECTIONS SHALL BE LED WITH EXPANDABLE VIEW, UNLESS OTHERWISE APPROVED BY THE ENGINEER. PEDESTRIAN SIGNAL HEADS SHALL BE LIGHT EMITTING DIODE (LED) PEDESTRIAN COUNTDOWN SIGNAL HEADS EXCEPT WHEN A TEMPORARY TRAFFIC SIGNAL IS INSTALLED AT AN INTERSECTION INTERCONNECTED WITH A RAILROAD GRADE CROSSING. WHEN A TEMPORARY TRAFFIC SIGNAL IS INSTALLED AT AN INTERSECTION INTERCONNECTED WITH A RAILROAD GRADE CROSSING, LIGHT EMITTING DIODE (LED) PEDESTRIAN SIGNAL HEADS SHALL BE FURNISHED. THE TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH EXTRA CABLE LENGTH TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS SHALL HAVE UNINTERRUPTABLE POWER SUPPLY (UPS). THE UPS CABINET SHALL BE MOUNTED TO THE TEMPORARY TRAFFIC SIGNAL CABINET AND MEET THE REQUIREMENTS OF UNINTERRUPTABLE POWER SUPPLY IN DIVISIONS 800 AND 1000 OF THESE SPECIFICATIONS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. PEDESTRIAN PUSH BUTTONS SHALL BE PROVIDED FOR ALL PEDESTRIAN SIGNAL HEADS/PHASES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER. DETECTION SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (2 OF 2) IL RTE 50 (CICERO AVE) AND VOLLMER RD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		350	101N-2 (12)	COOK	73	46
SCALE:		SHEET OF SHEETS		STA. TO STA.		CONTRACT NO. 60V99
ILLINOIS FED. AID PROJECT						

TEMPORARY CONTROLLER SEQUENCE

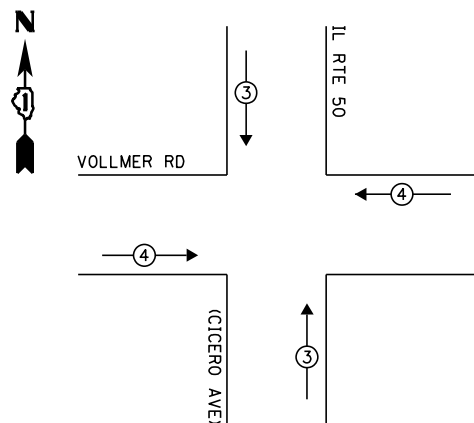


LEGEND:

- ◻ SINGLE ENTRY PHASE
- ◉ DUAL ENTRY PHASE
- ◉ PEDESTRIAN PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

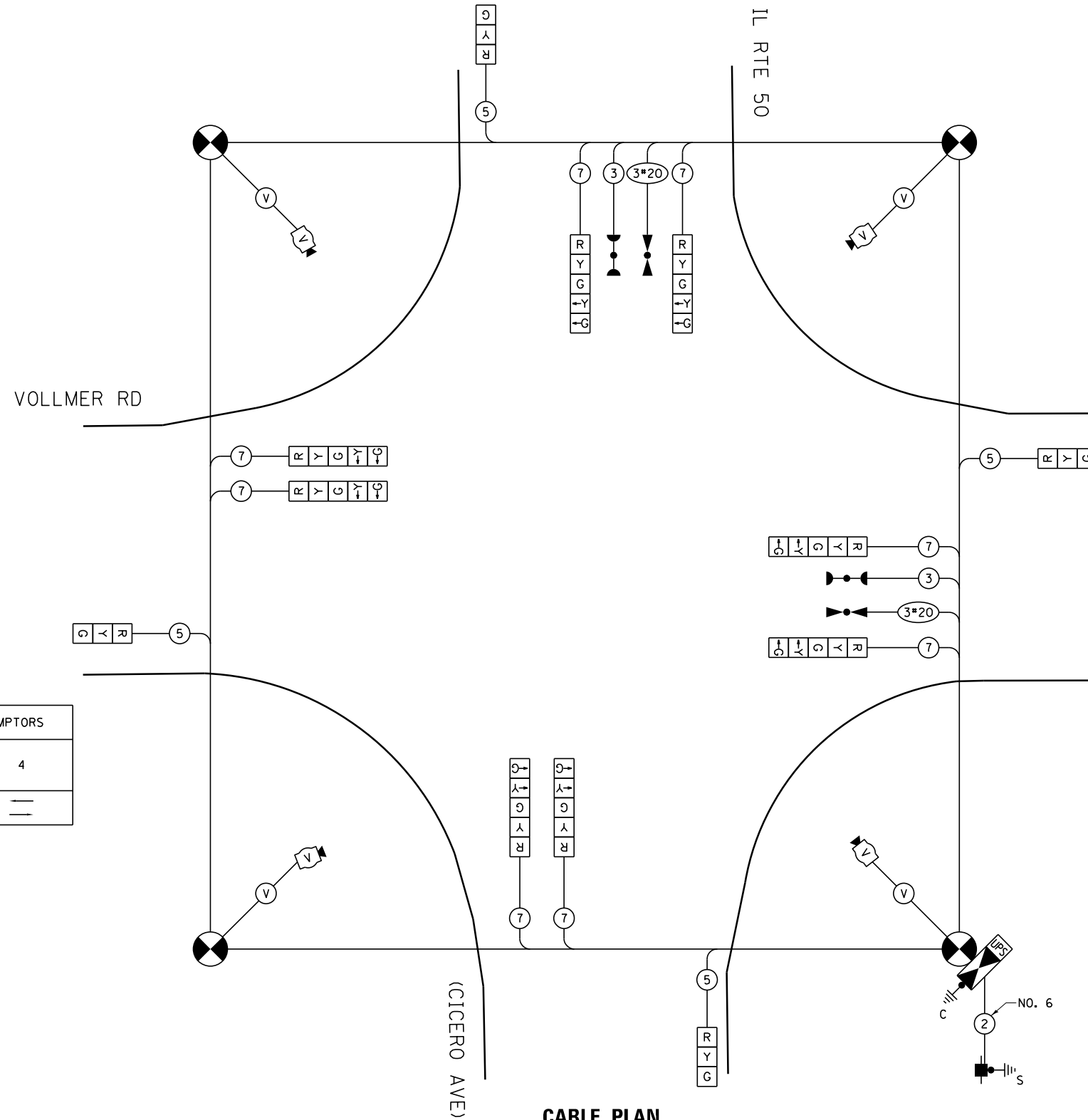


TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT		==	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	12	INCAND.	17	0.50	102.0
(YELLOW)	12		25	0.25	75.0
(GREEN)	12		15	0.25	45.0
ARROW	16		12	0.10	19.2
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	1		150	1.00	150.0
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	491.2

VILLAGE OF MATTESON
 4900 VILLAGE COMMONS
 MATTESON, IL 60443
 ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
 PHONE: (708) 235-2692
 COMPANY: COMMONWEALTH EDISON

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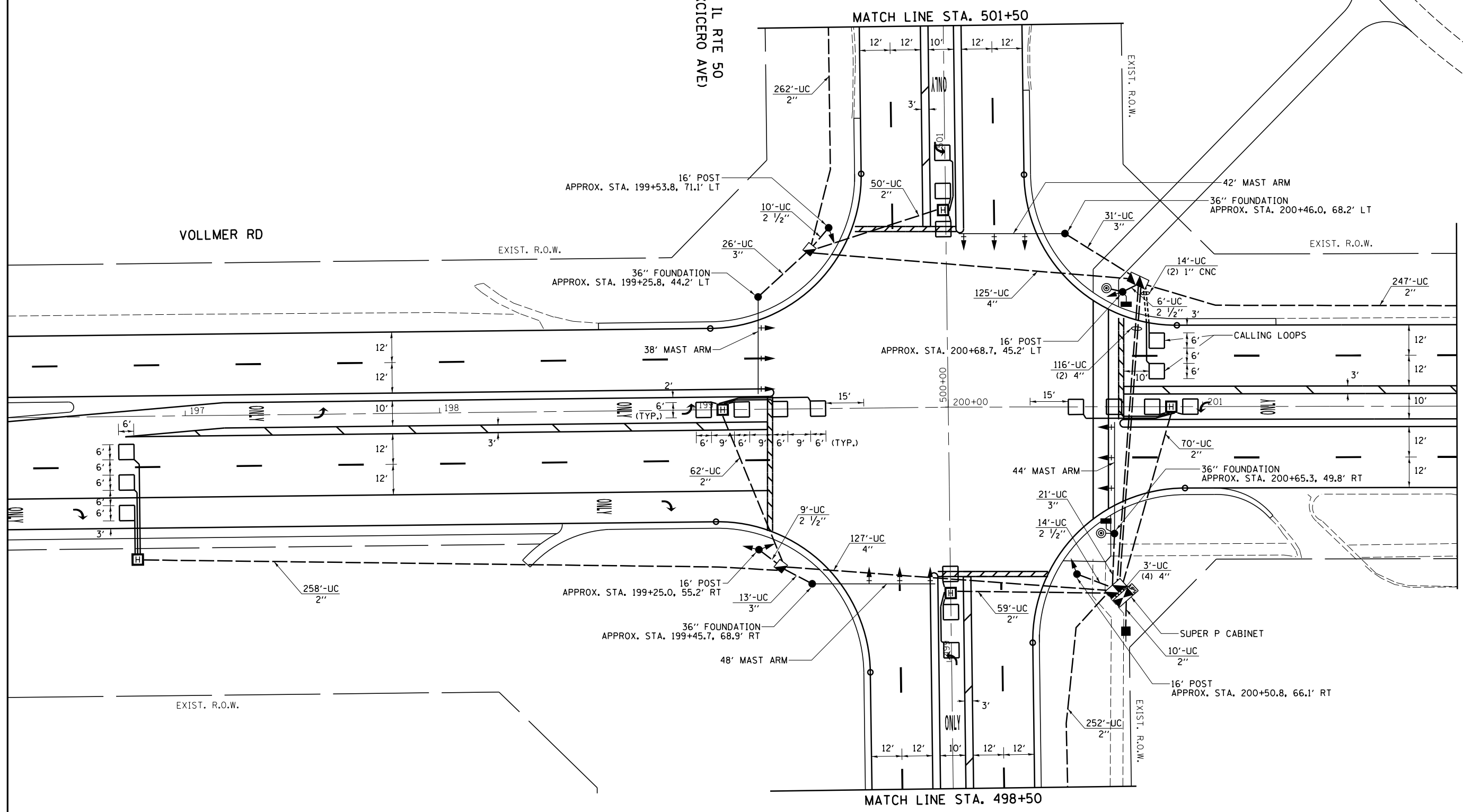


CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
 AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL RTE 50 (CICERO AVE) AND VOLLMER RD
 SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2 (12)	COOK	73	47
CONTRACT NO. 60V99				
ILLINOIS FED. AID PROJECT				



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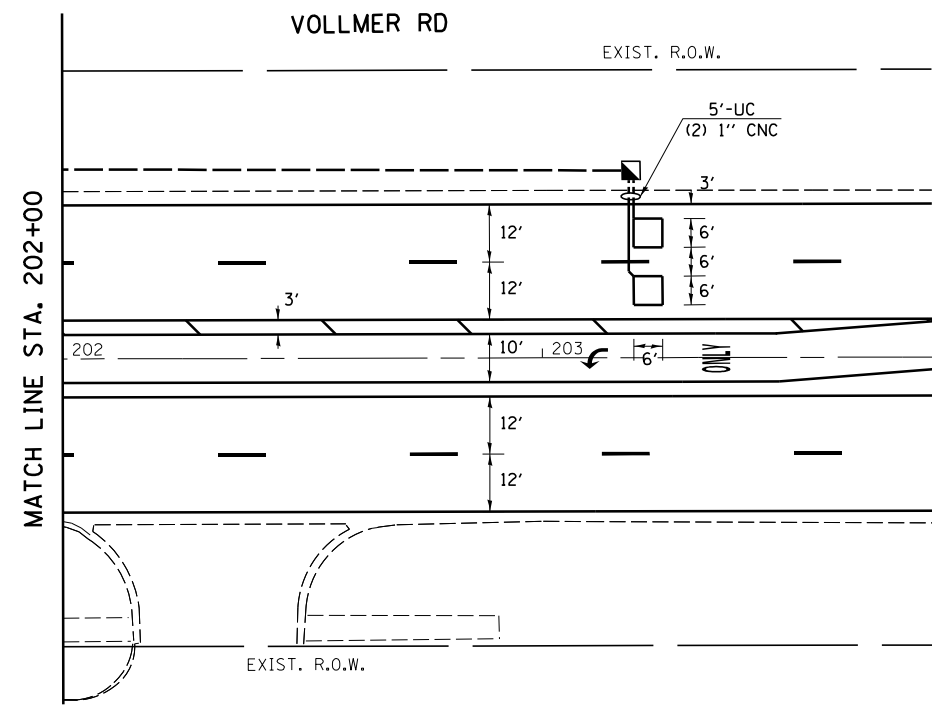
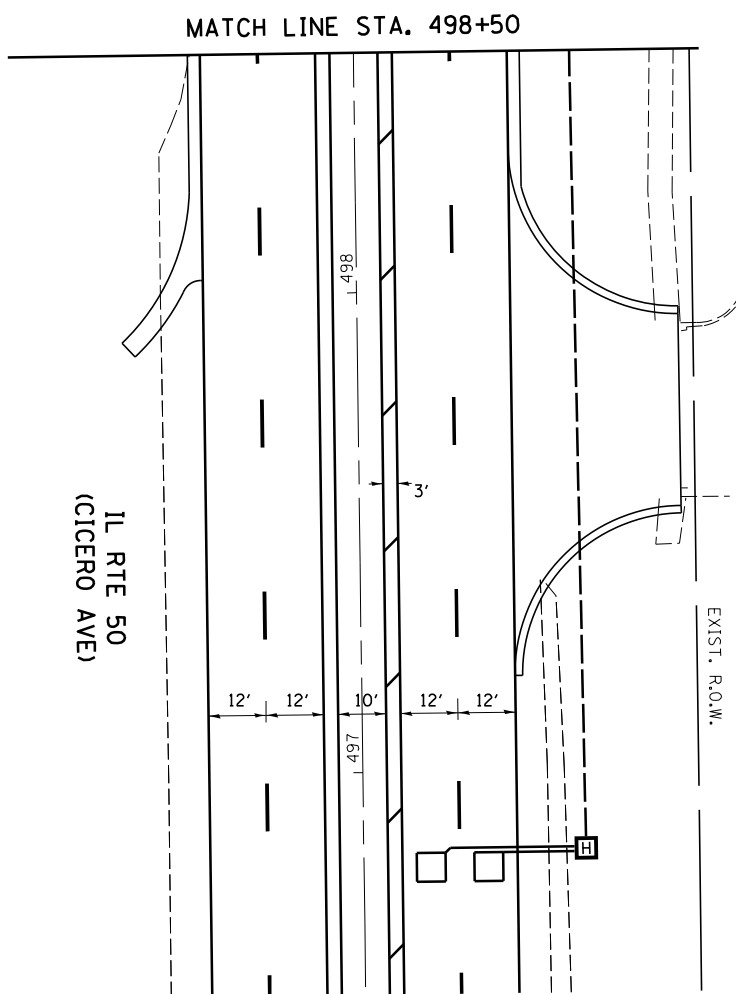
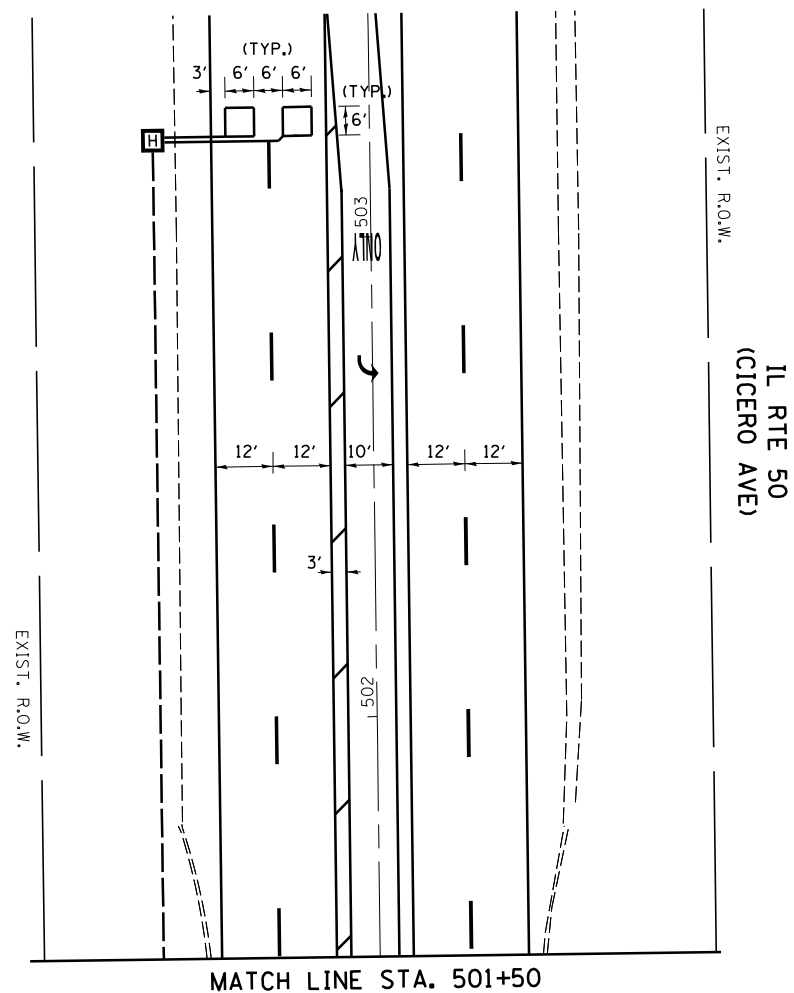
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (1 OF 2)
IL RTE 50 (CICERO AVE) AND VOLLMER RD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2 (12)	COOK	73	48
CONTRACT NO. 60V99				
ILLINOIS FED. AID PROJECT				

TS 2635



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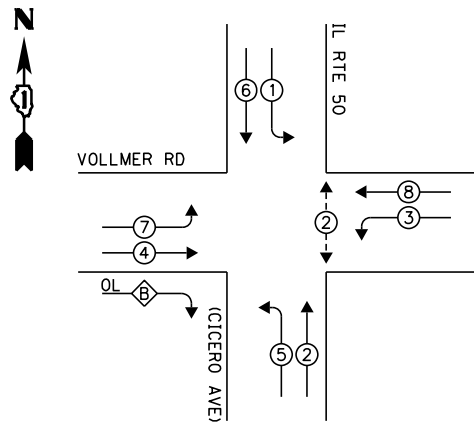
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (2 OF 2)
IL RTE 50 (CICERO AVE) AND VOLLMER RD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2 (12)	COOK	73	49
CONTRACT NO. 60V99				
ILLINOIS FED. AID PROJECT				

TS 2635

PROPOSED CONTROLLER SEQUENCE

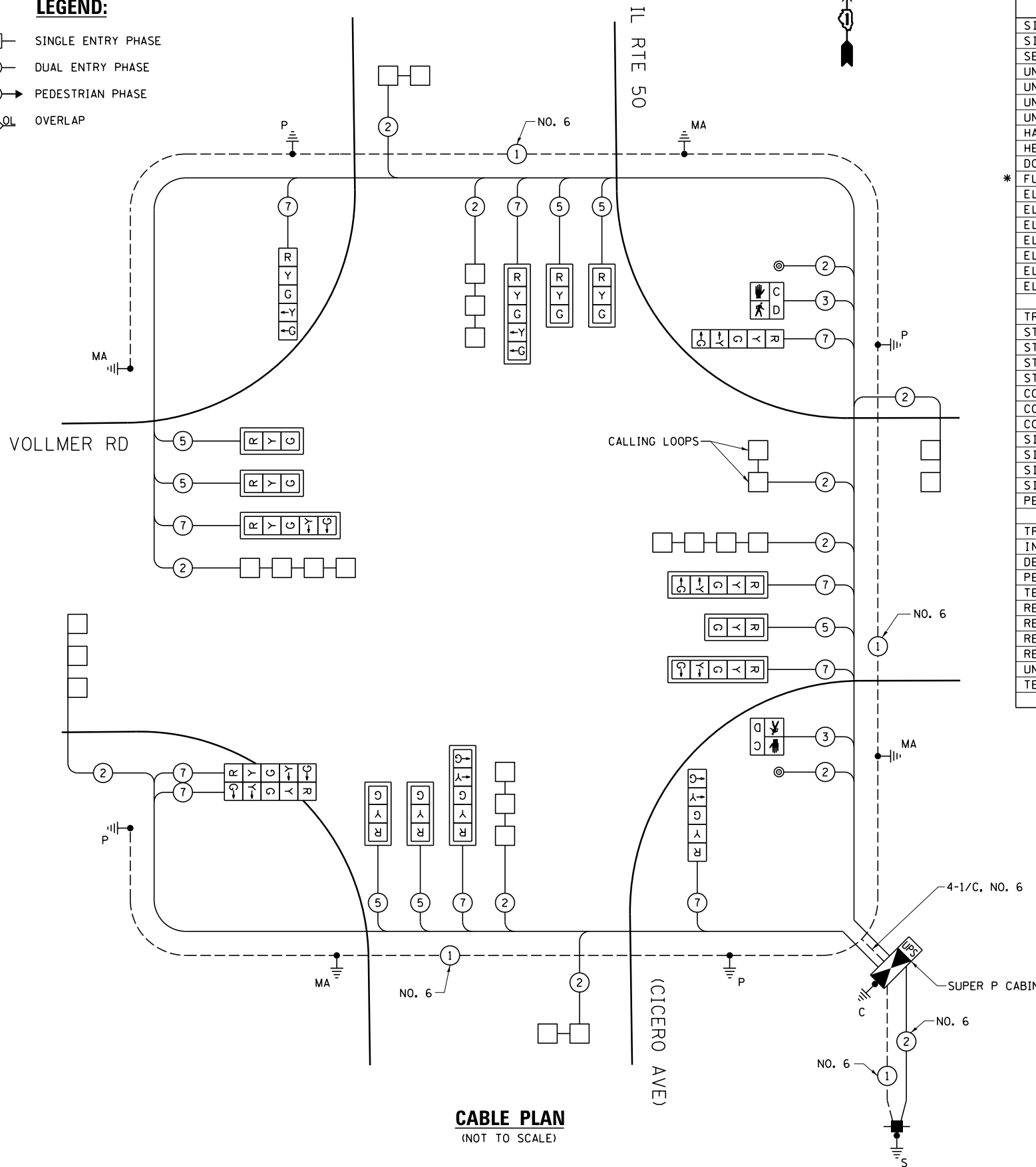


LEGEND:

- ◀ * → SINGLE ENTRY PHASE
- ◀ • → DUAL ENTRY PHASE
- ◀ • → PEDESTRIAN PHASE
- ◀ • → OVERLAP

PROPOSED PHASE DESIGNATION DIAGRAM

$$\frac{\text{OVERLAP LETTER}}{B} = \frac{\text{PERMISSIVE PHASE}}{4} + \frac{\text{PROTECTED PHASE}}{5}$$



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15
SIGN PANEL - TYPE 2	SQ FT	25
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,270
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	39
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	91
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	467
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	2
* FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	230
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	235
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,725
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,975
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,550
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	875
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	975
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* SUPER P CABINET

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	17	INCAND.	LED	0.50	144.5
(YELLOW)	17		25	0.25	106.25
(GREEN)	17		15	0.25	63.75
ARROW	20		12	0.10	24.0
PED. SIGNAL	2		25	1.00	50.0
CONTROLLER	1		100	1.00	100.0
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	-		150	1.00	-
FLASHER				0.50	
ENERGY COSTS TO:	TOTAL =				488.5

VILLAGE OF MATTESON
4900 VILLAGE COMMONS
MATTESON, IL 60443
ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON

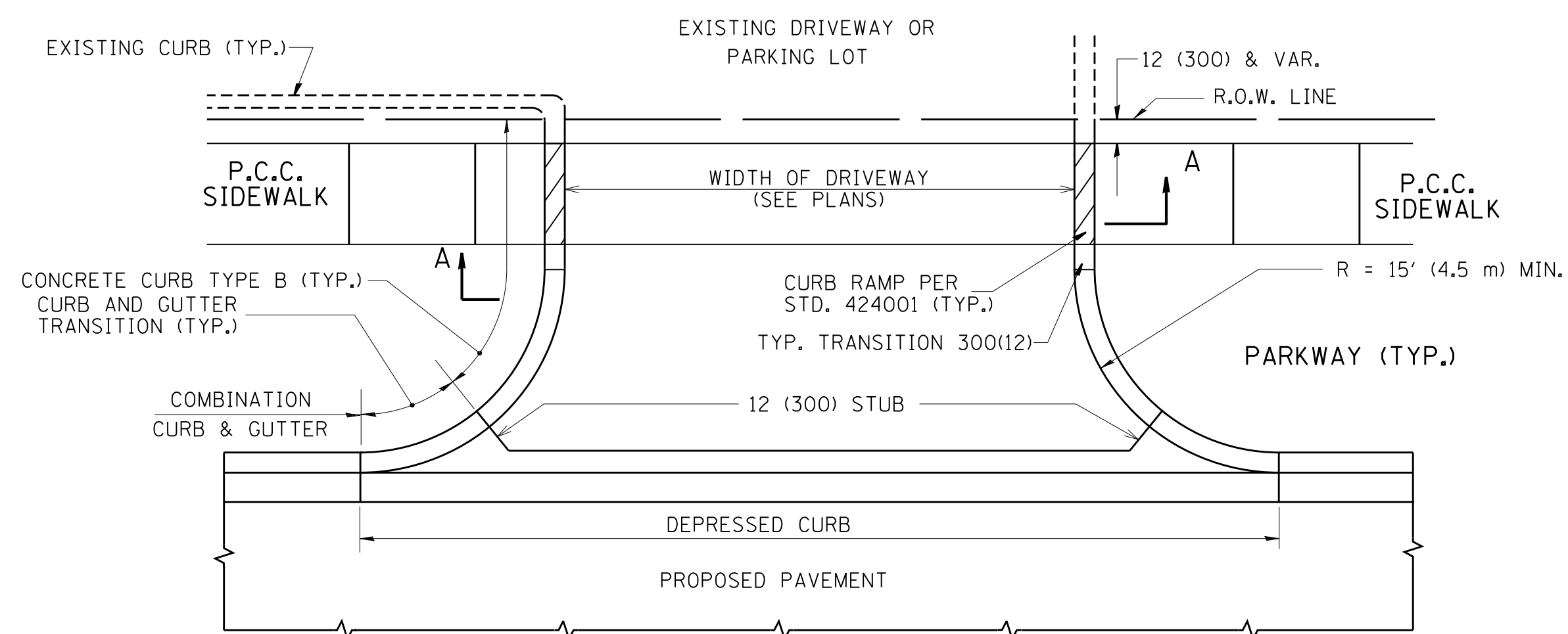
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

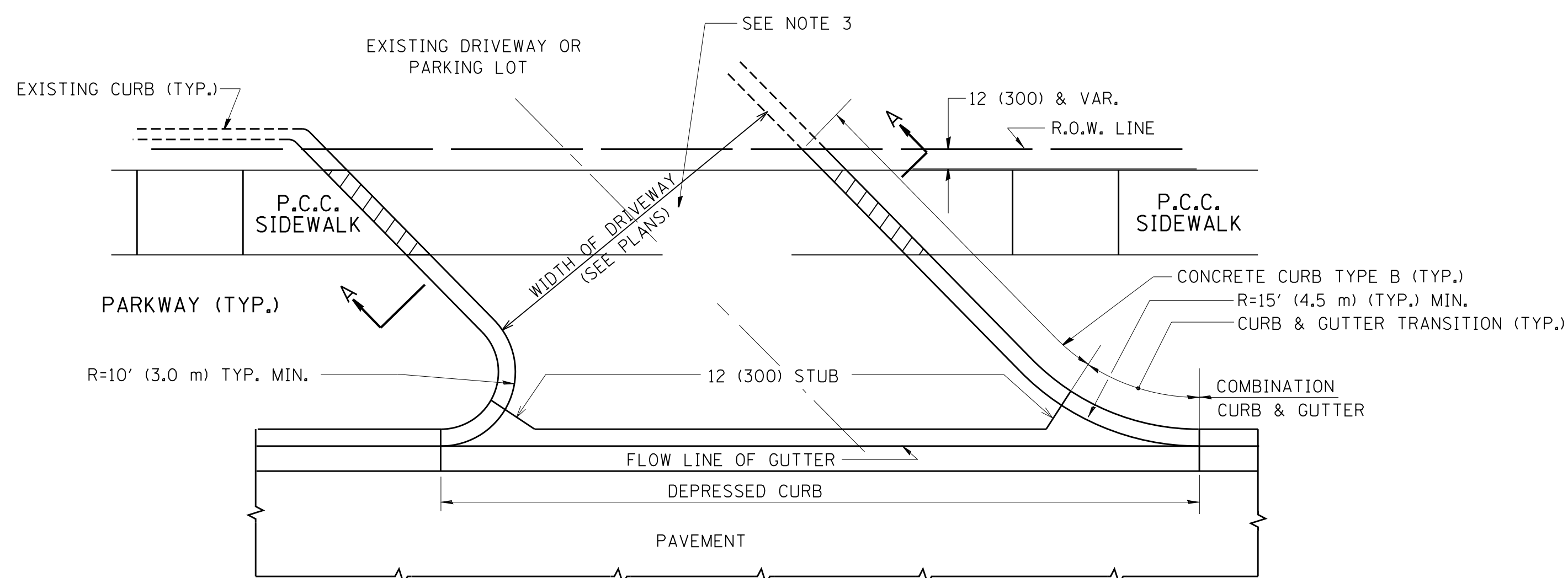
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IL RTE 50 (CICERO AVE) AND VOLLMER RD			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2 (12)	COOK	73	50
CONTRACT NO. 60V99				
ILLINOIS FED. AID PROJECT				

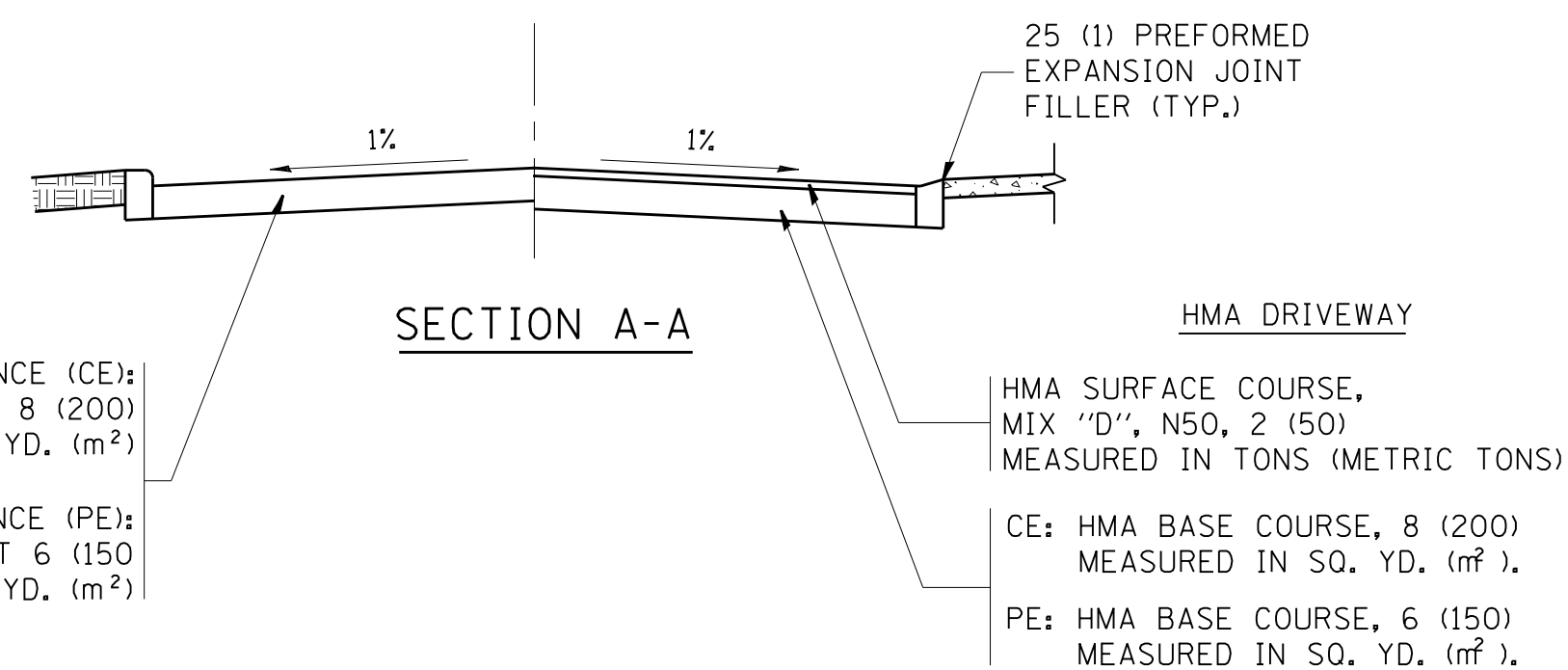
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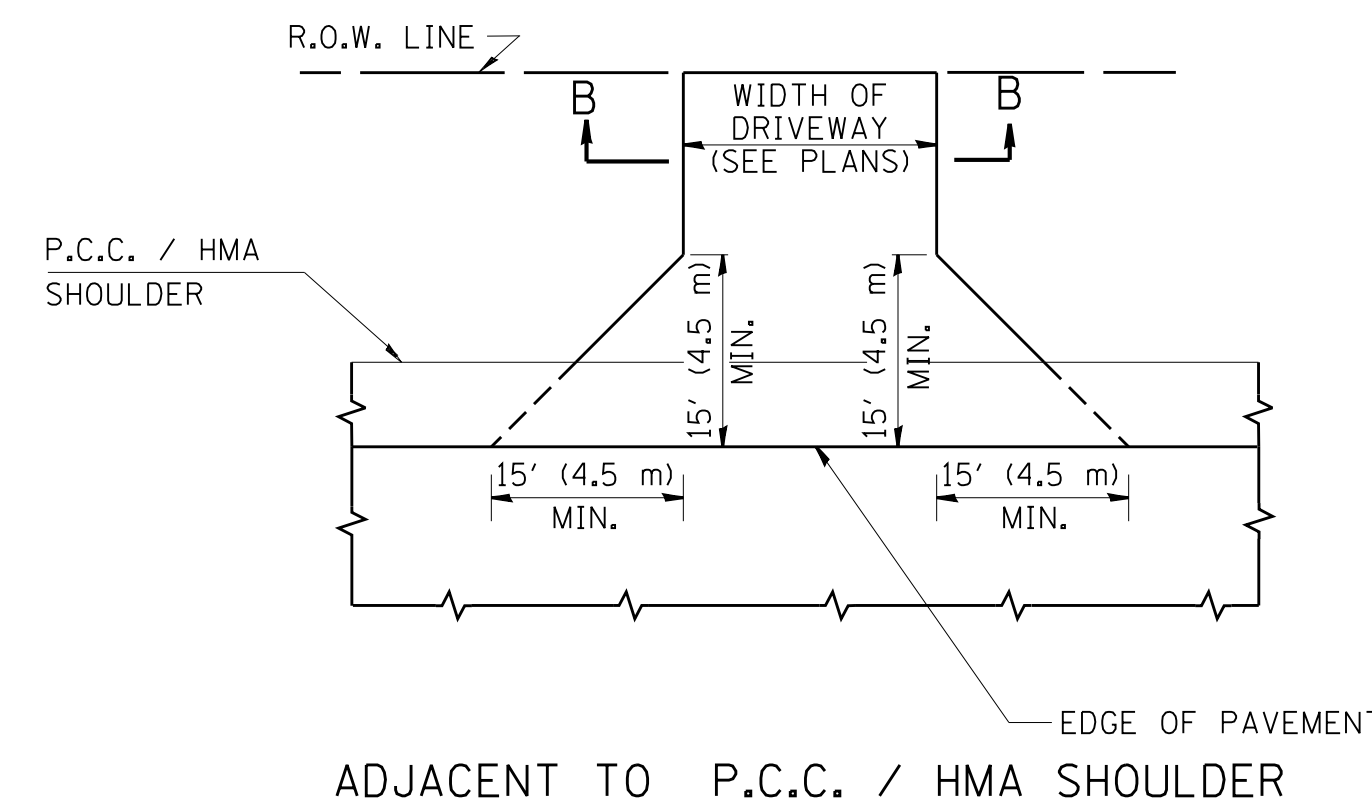
WITH CONCRETE CURB, TYPE B



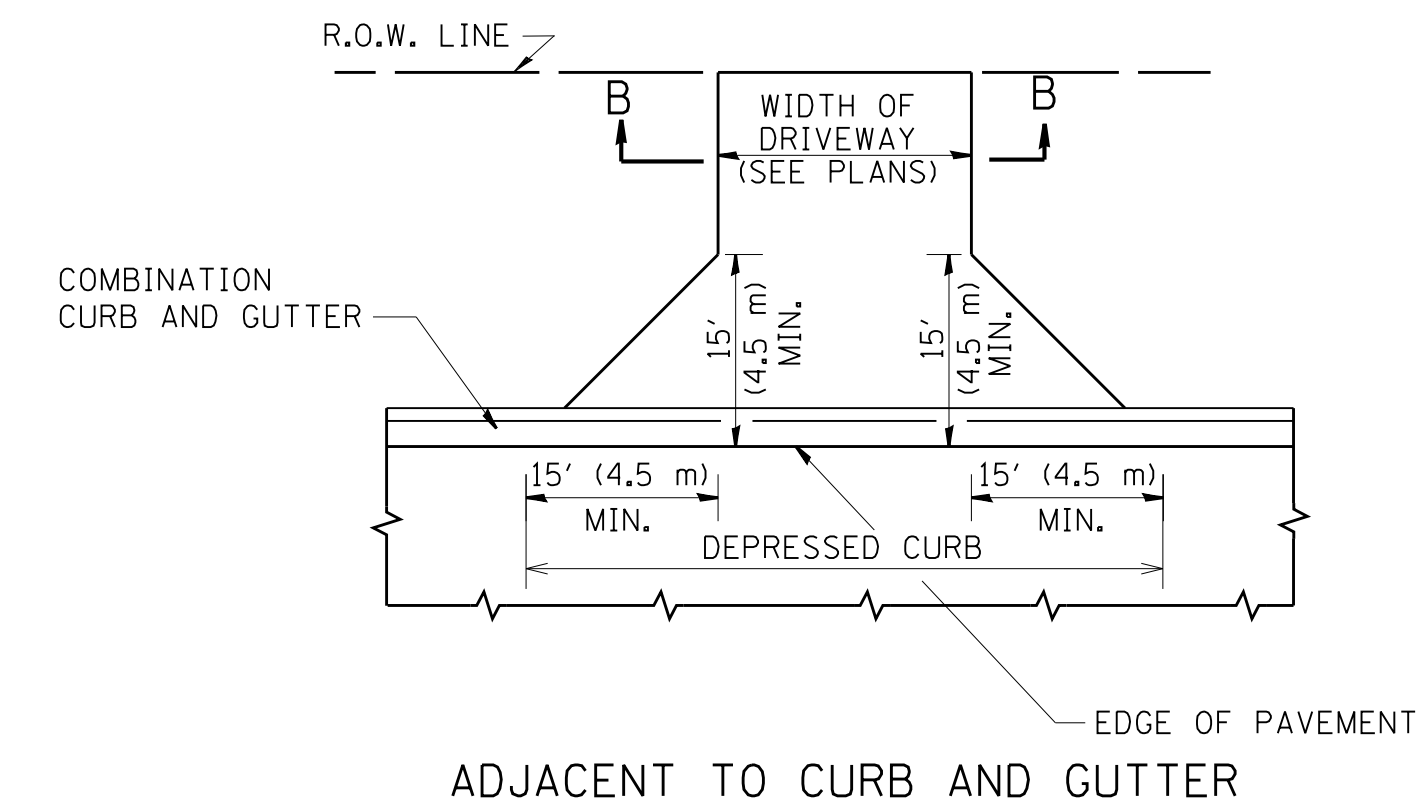
WITH CONCRETE CURB, TYPE B



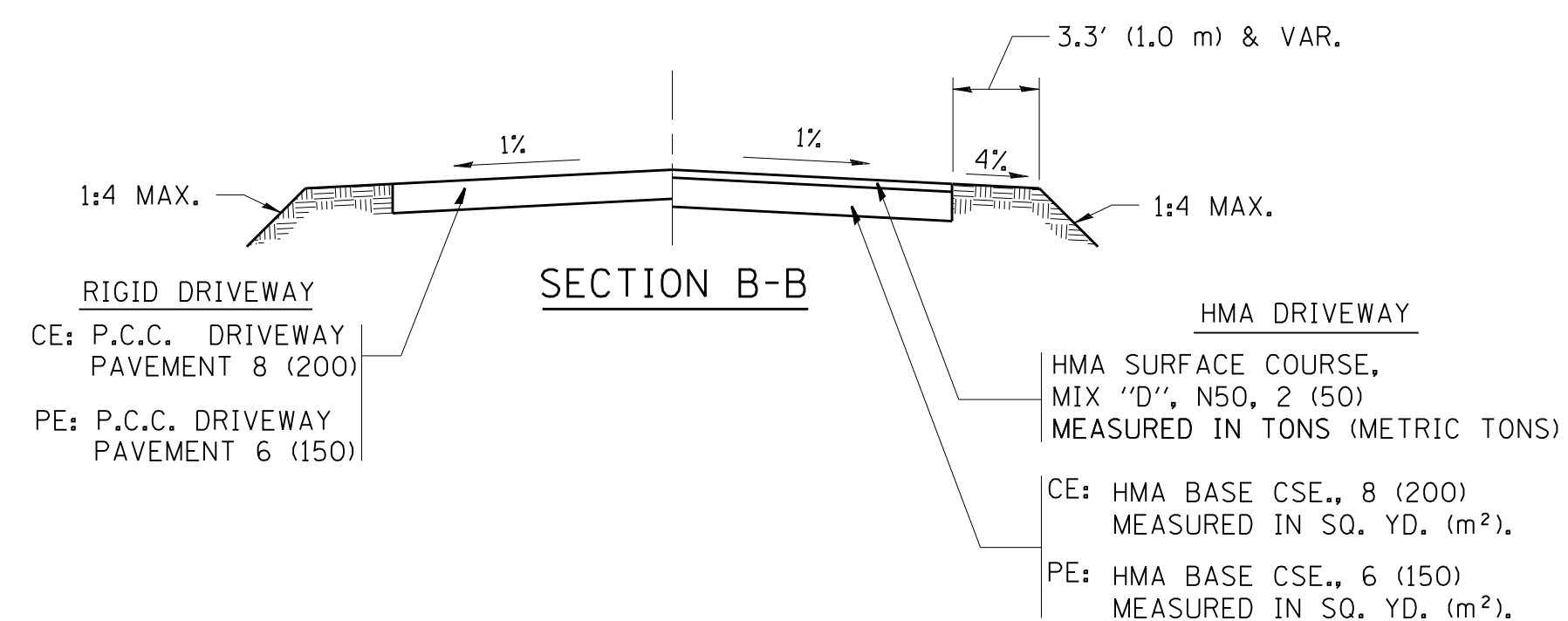
SECTION A-A



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

RURAL FIELD ENTRANCE (FE)

GENERAL NOTES:

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

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

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

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

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

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

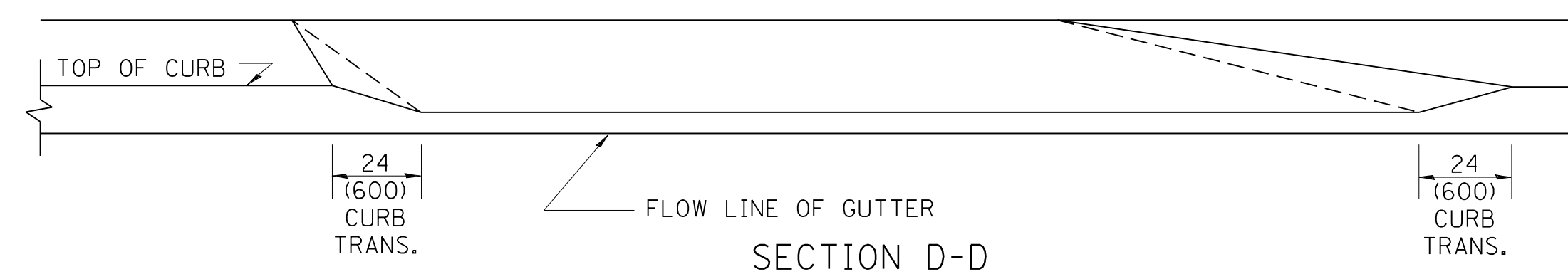
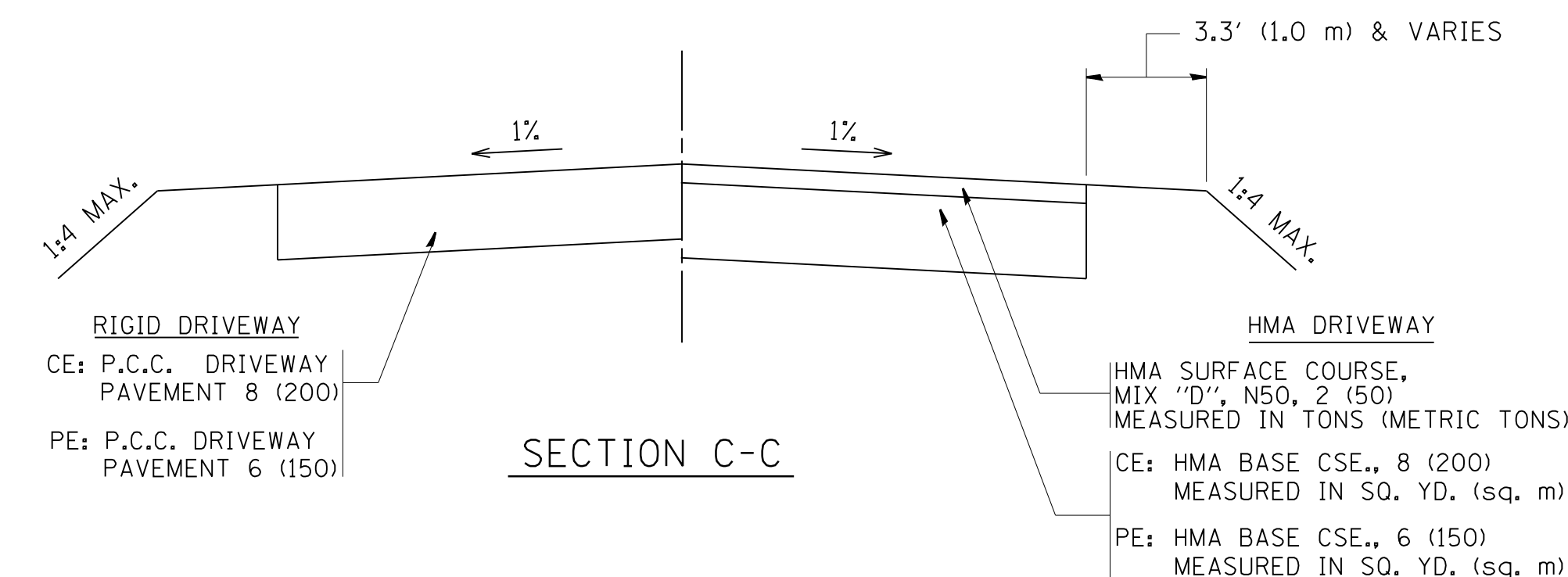
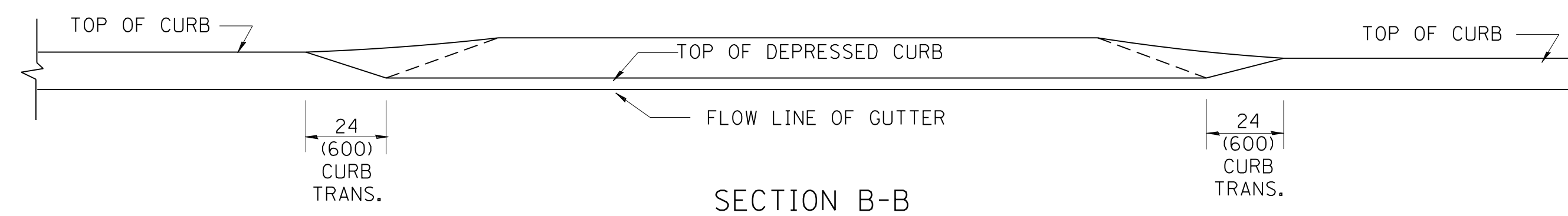
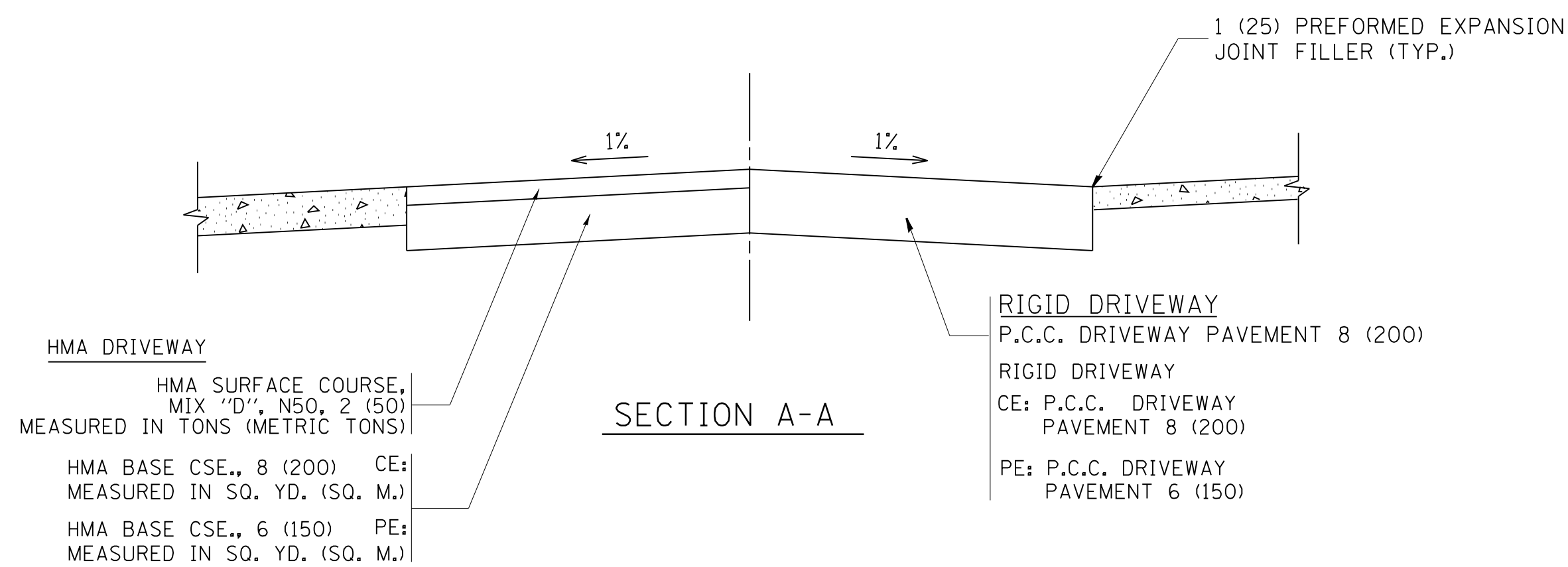
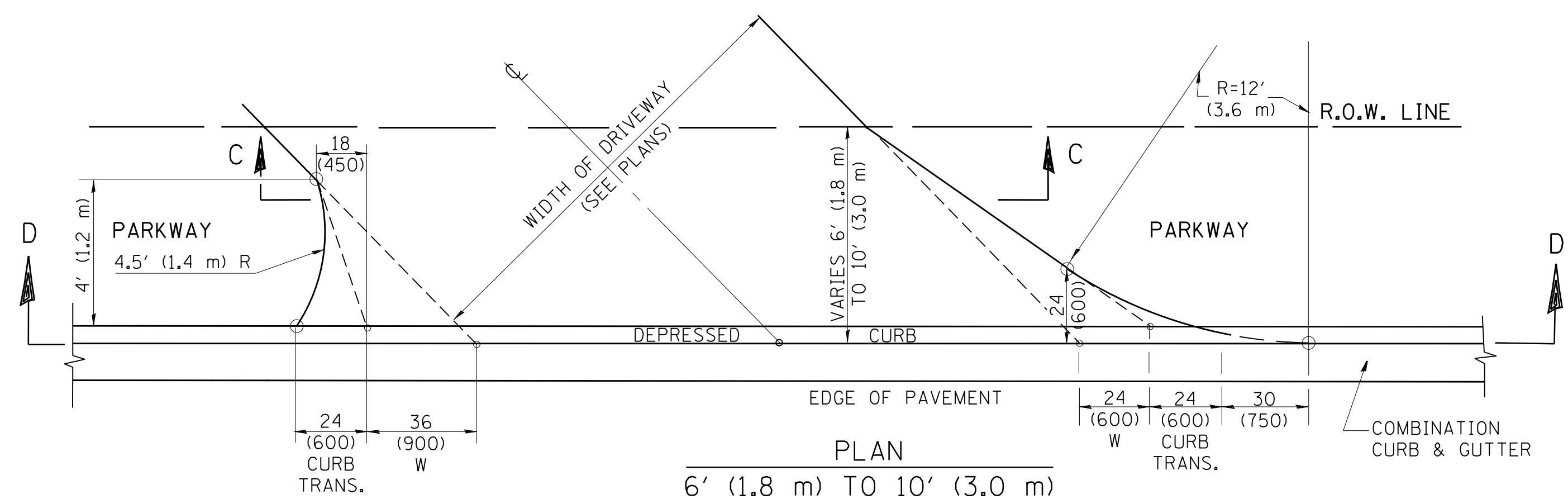
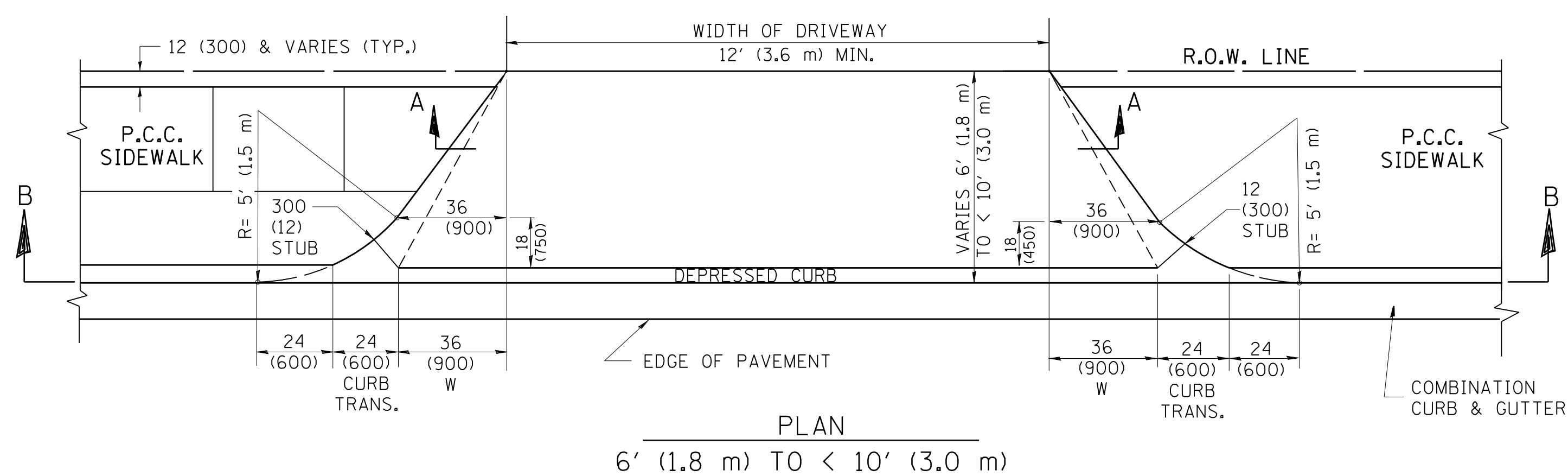
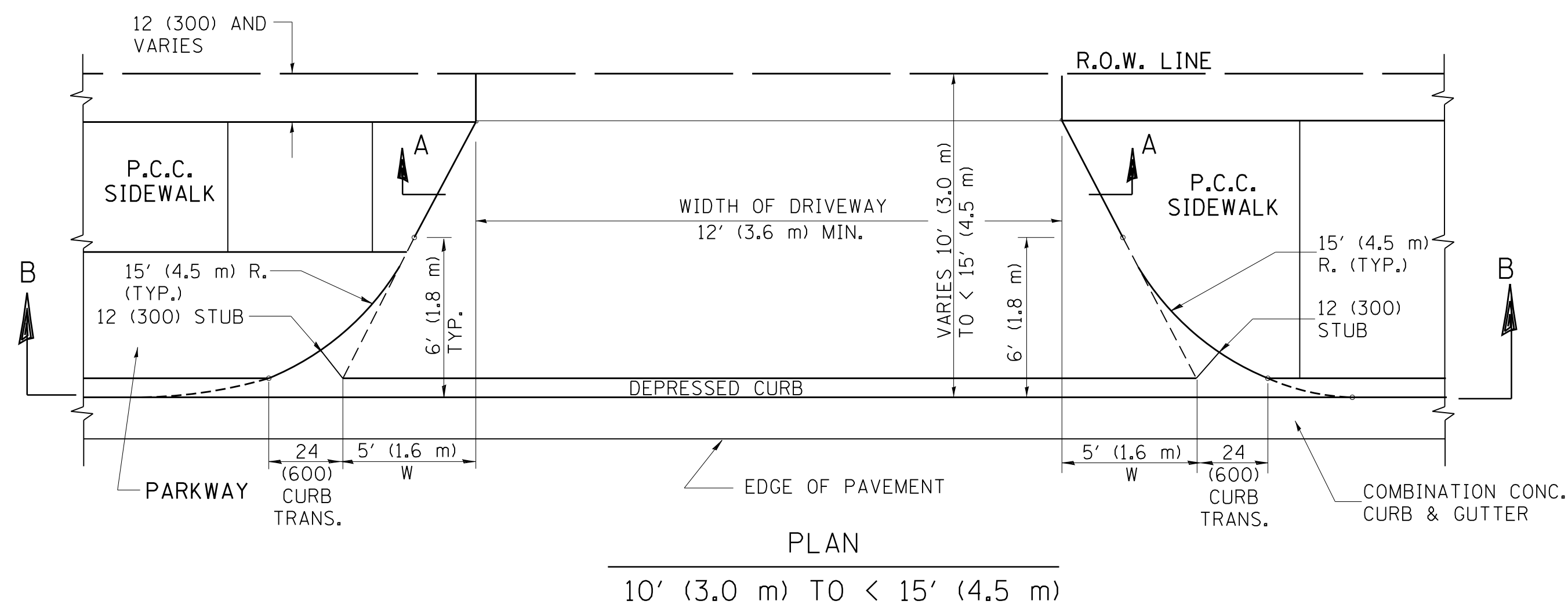
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	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	52
BD0156-07 (BD-01)		CONTRACT NO. 60V99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



GENERAL NOTES

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

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

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

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

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

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

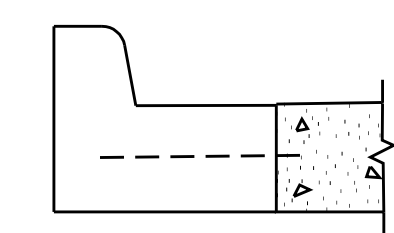
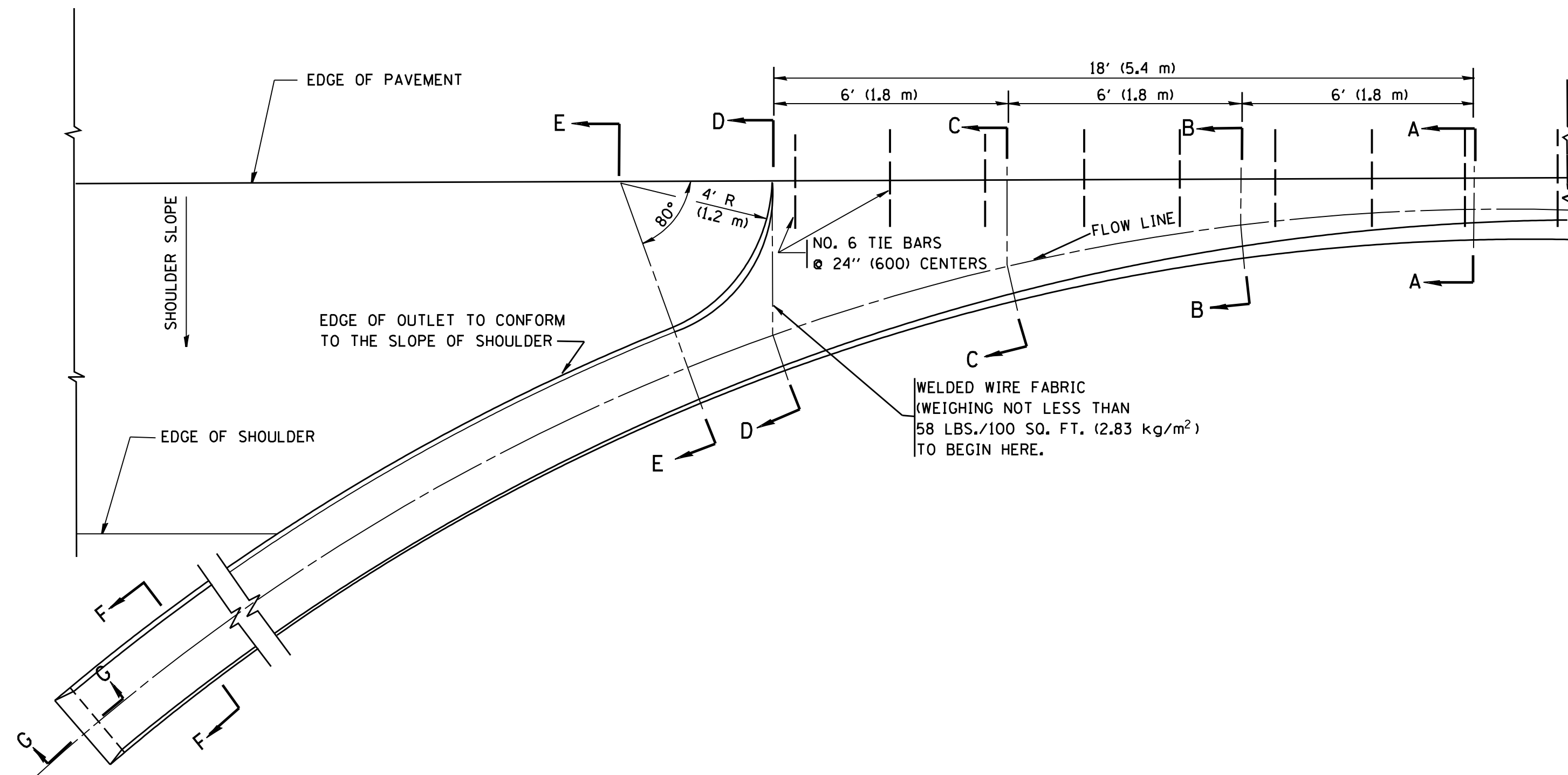
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

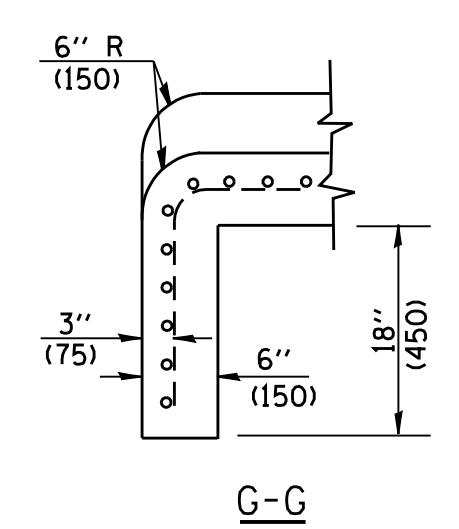
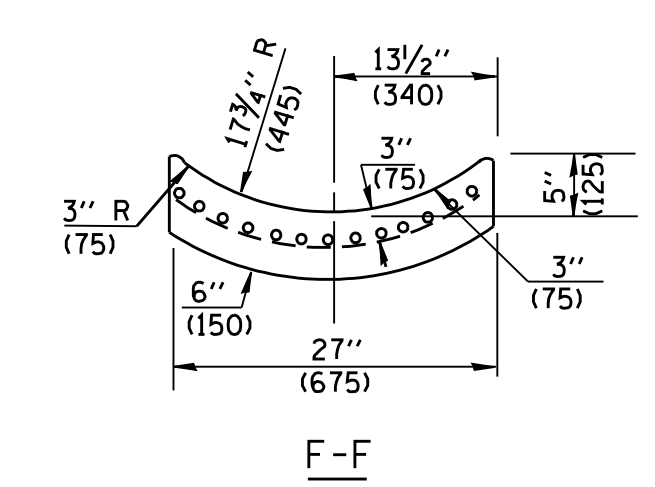
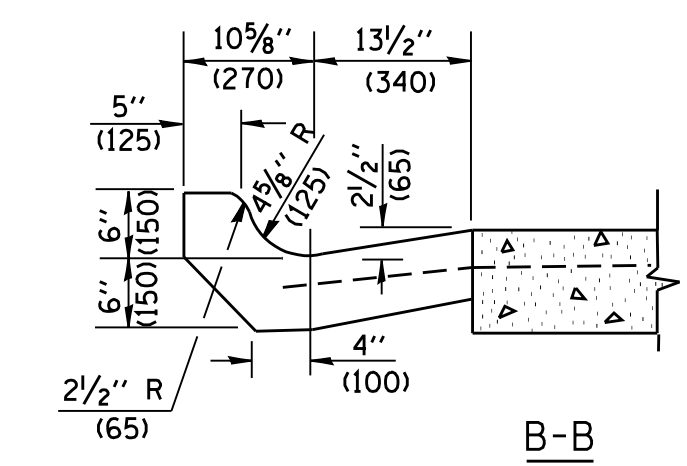
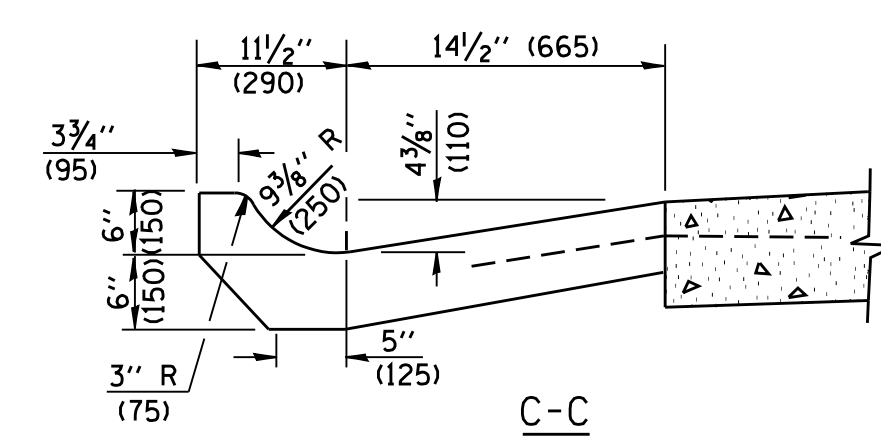
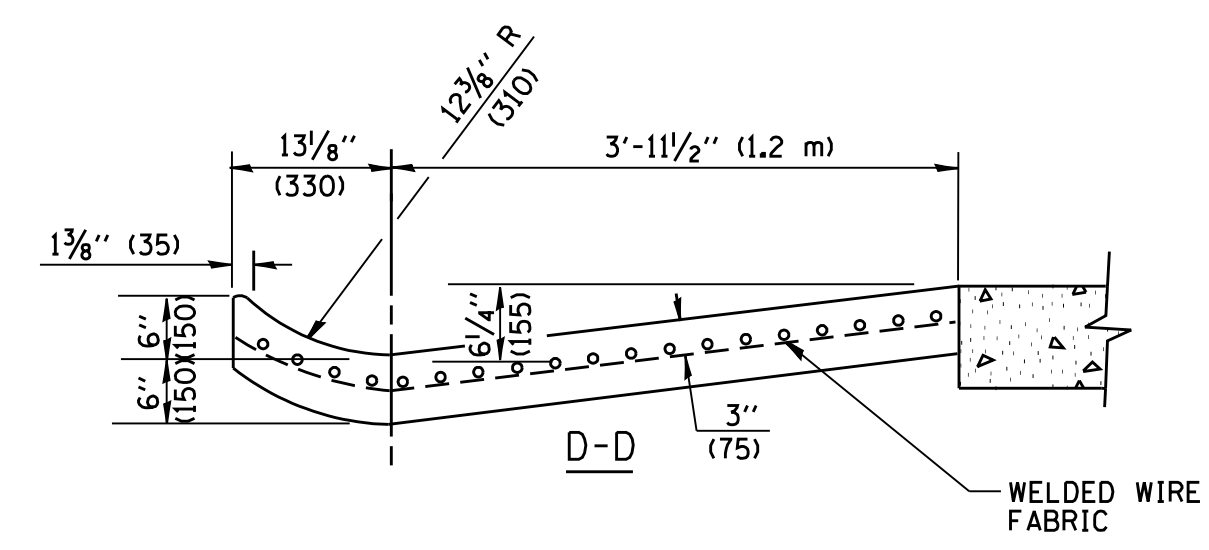
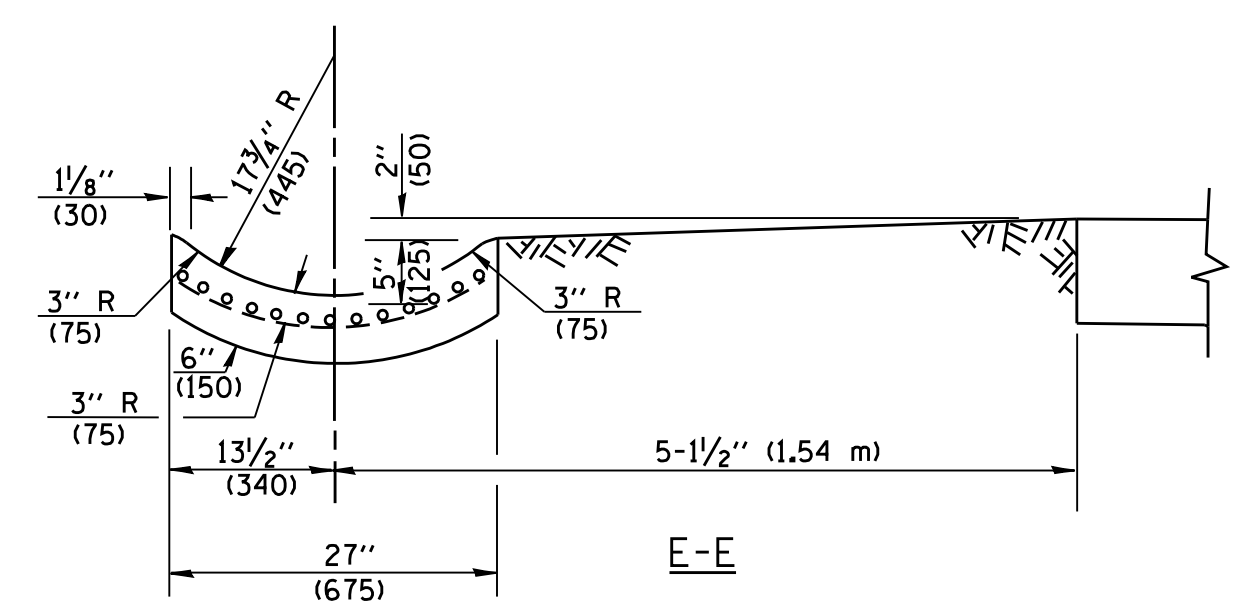
DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.P. RTE. 350	SECTION 101N-2(12)	COUNTY COOK	TOTAL SHEETS 73	SHEET NO. 53
BD400-02 (BD-02)		CONTRACT NO. 60V99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



A-A *

* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24\" (600) CENTERS UNLESS OTHERWISE SHOWN.

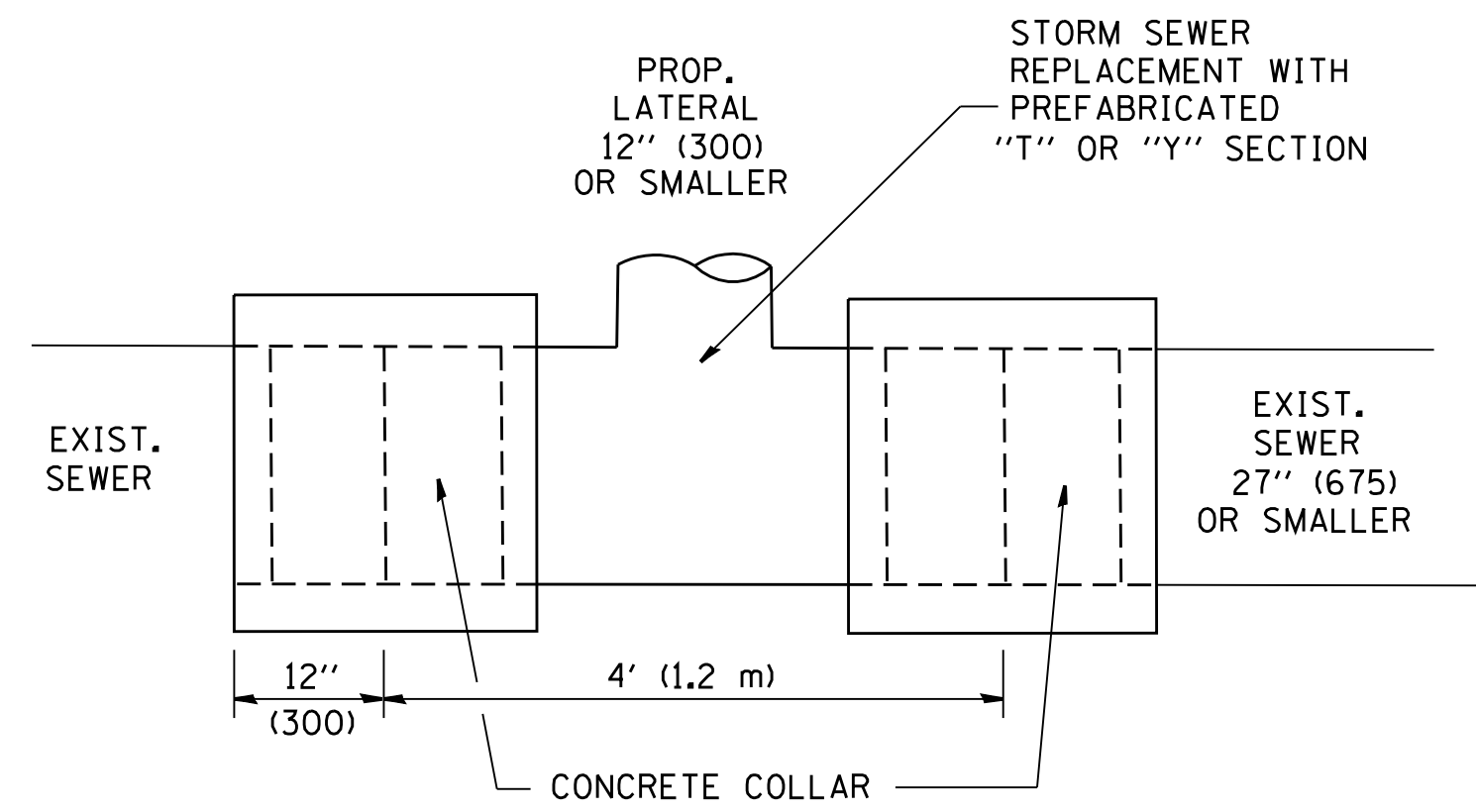
IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL =
 1.25 CU. YDS. (0.96 m³) CLASS S1 CONCRETE (OUTLET) FOR 9\" (225) PAV'T.
 1.27 CU. YDS. (0.96 m³) CLASS S1 CONCRETE (OUTLET) FOR 10\" (250) PAV'T.
 FOR SECTION F-F =
 0.045 CU. YDS. (0.03 m³) CLASS S1 CONCRETE PER FT. (m).

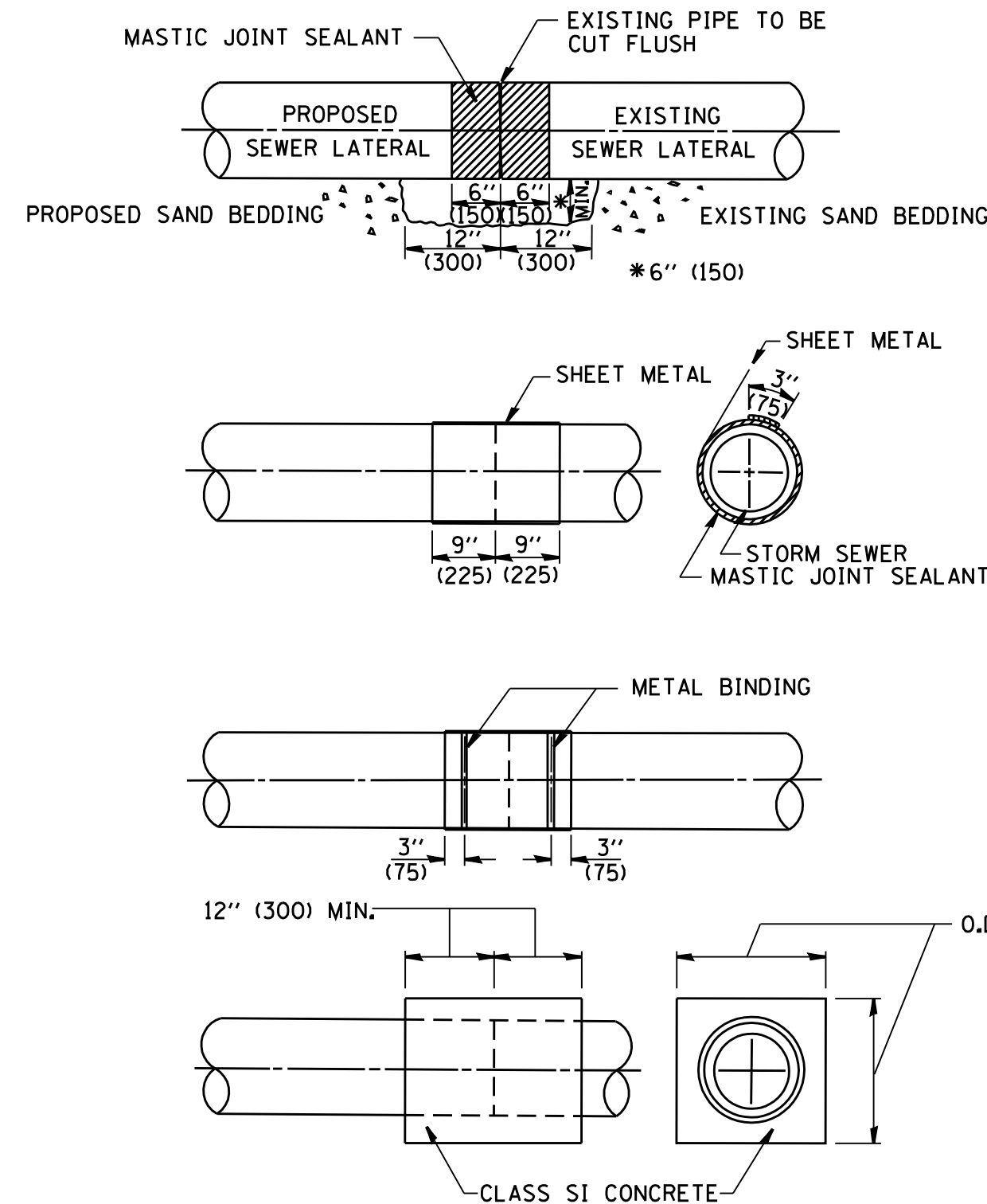
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94					350	101N-2(12)	COOK	73	54
PLOT DATE = 1/4/2008	DATE - 08-04-86	REVISED - E. GOMEZ 12-21-00	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD600-01 (BD-03)		CONTRACT NO. 60V99		
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

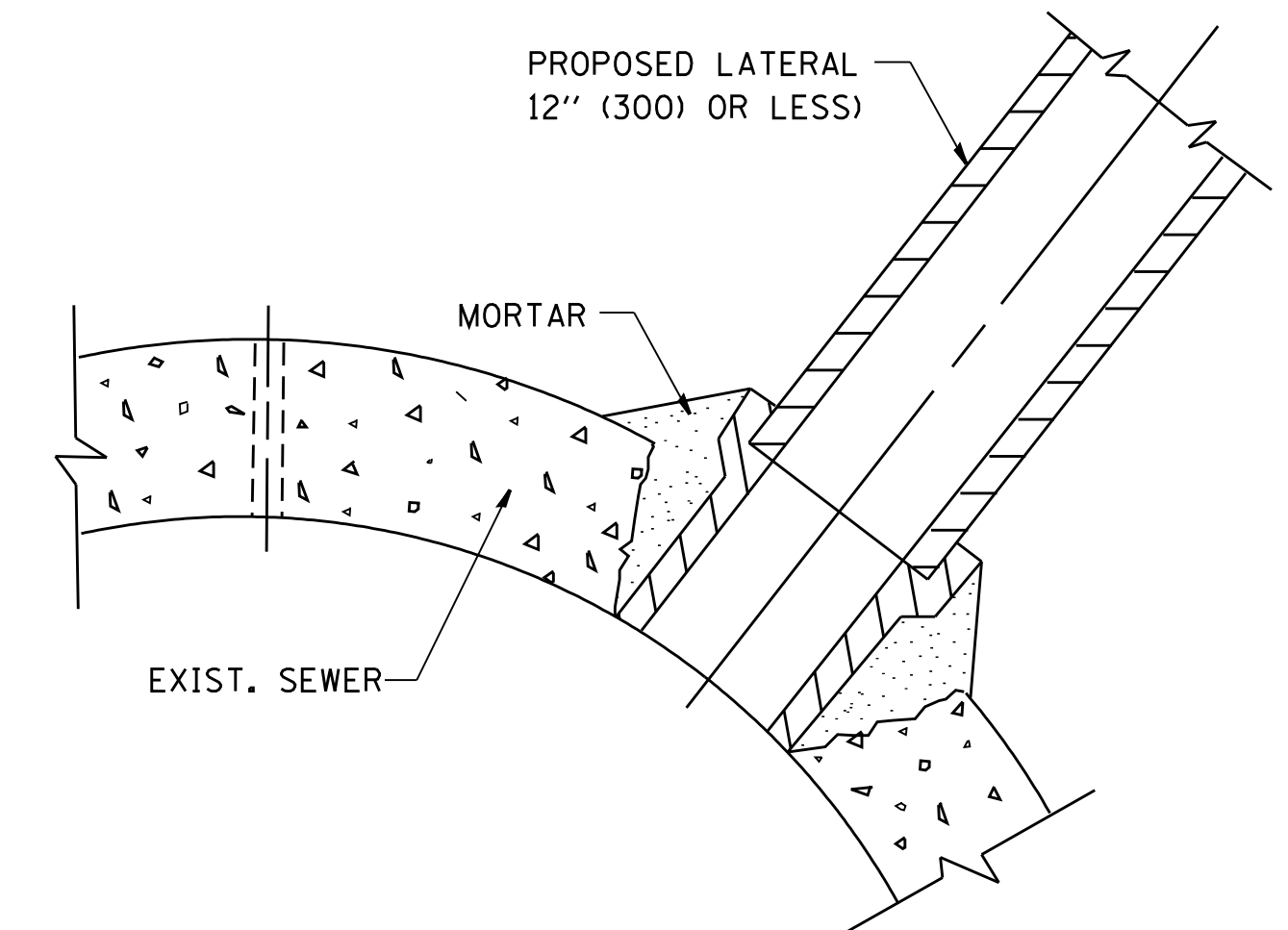


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

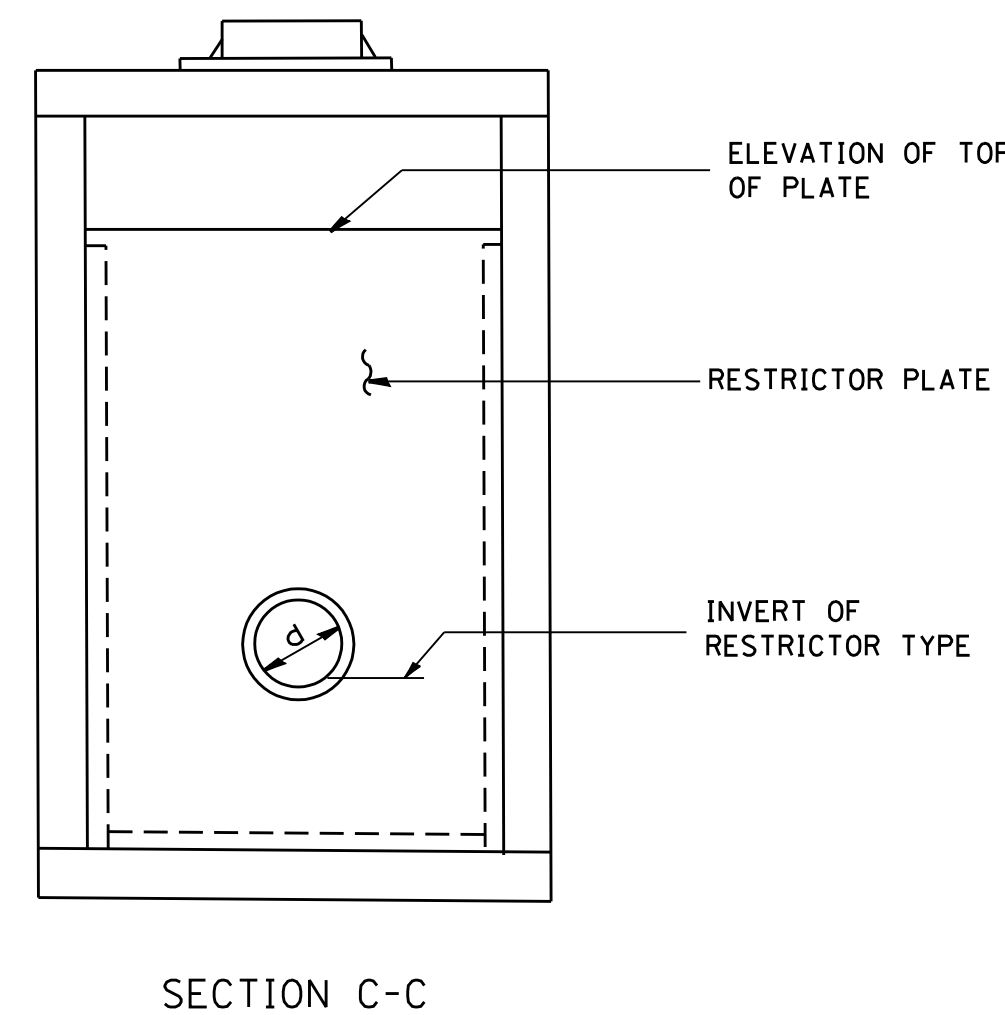
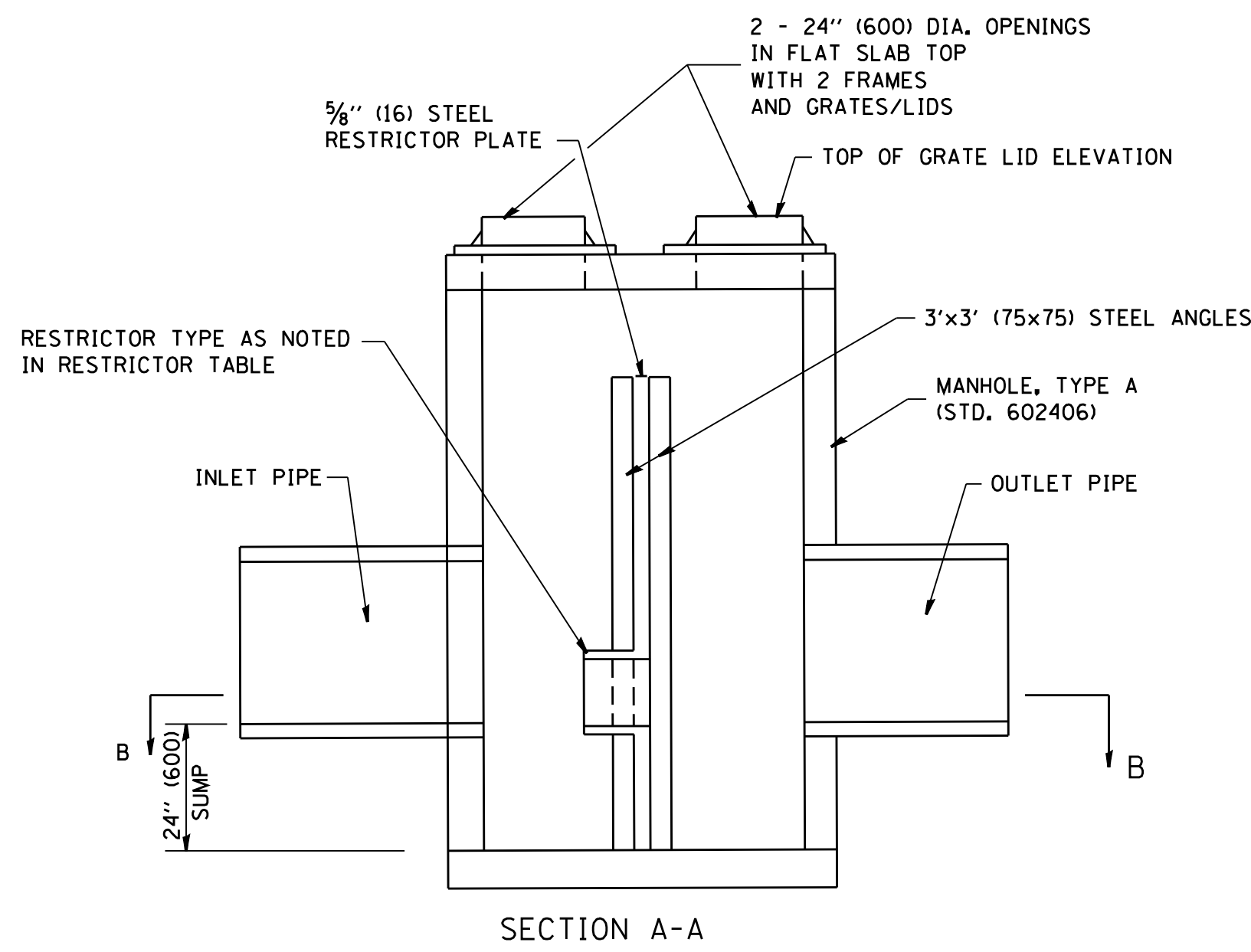
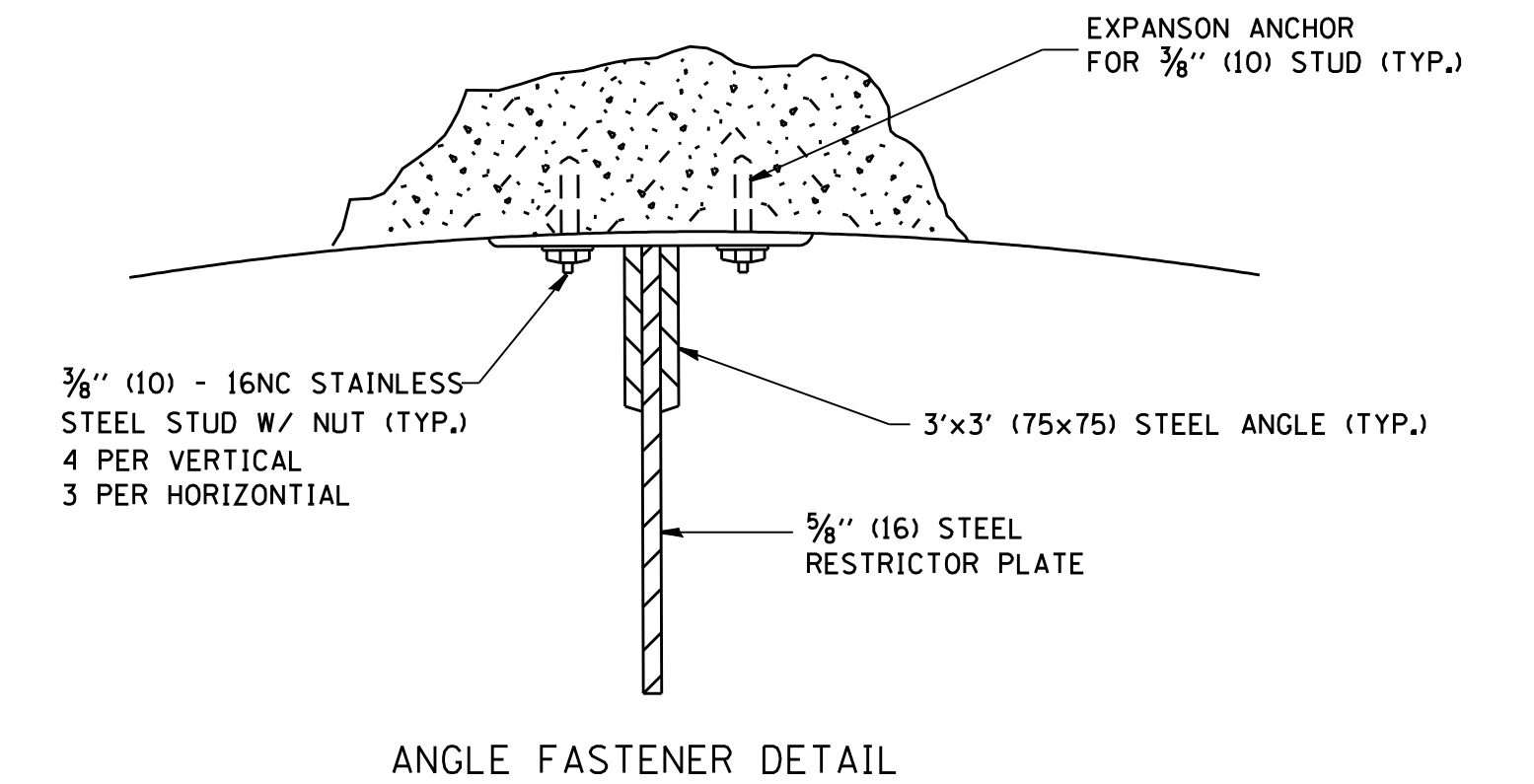
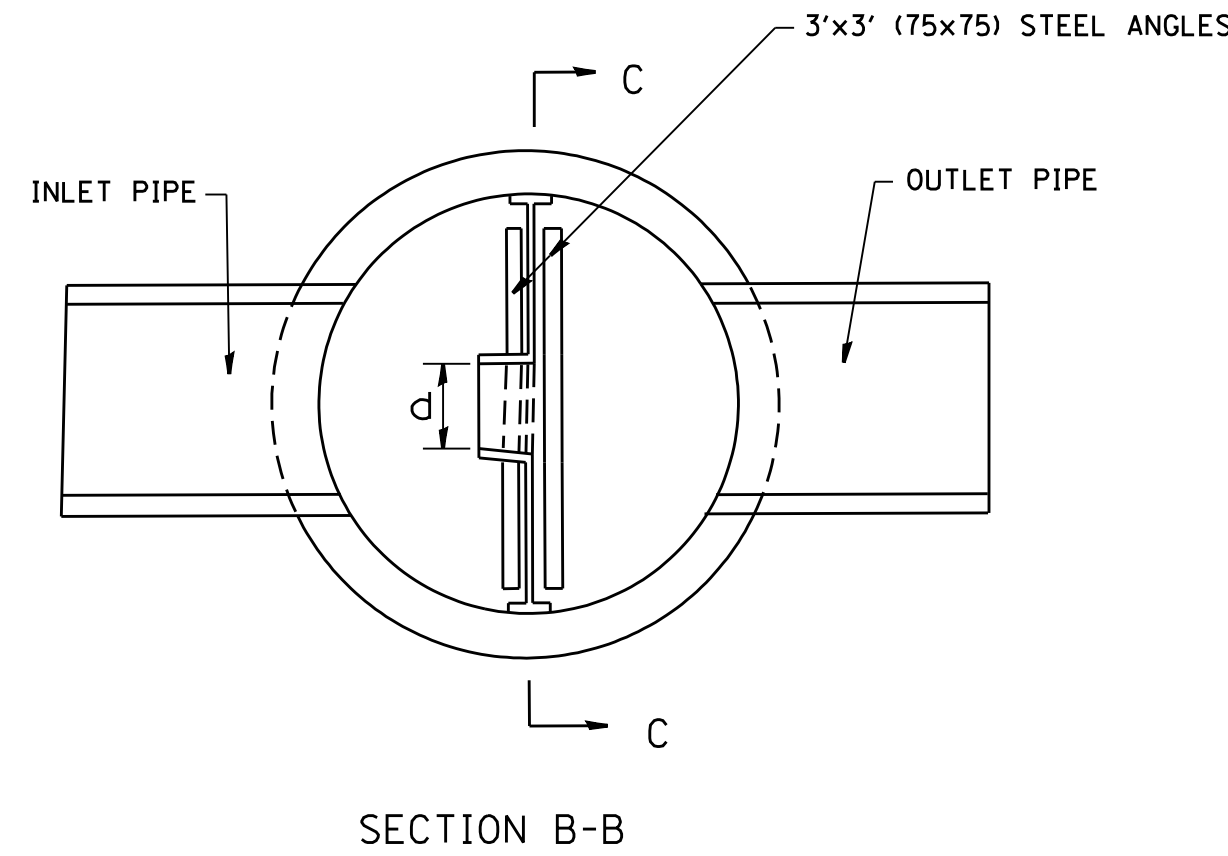
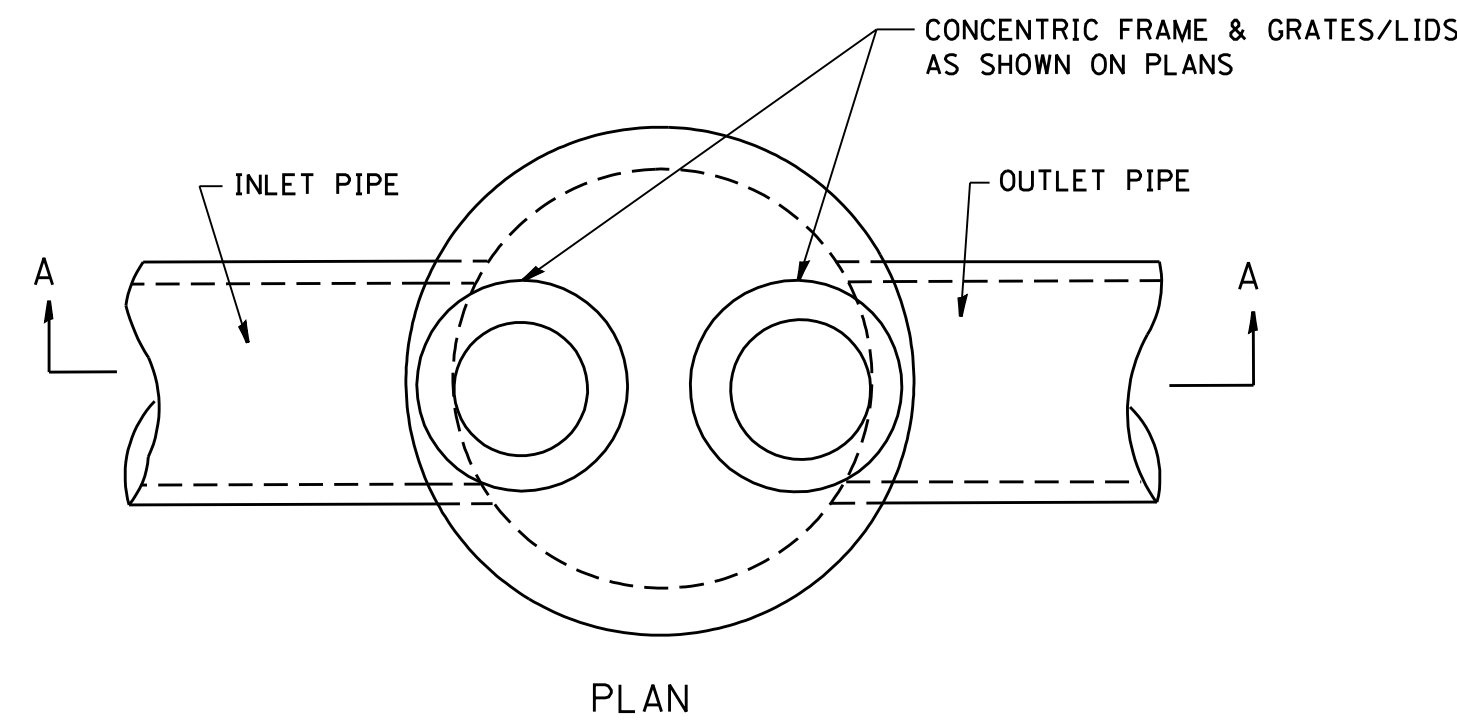
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

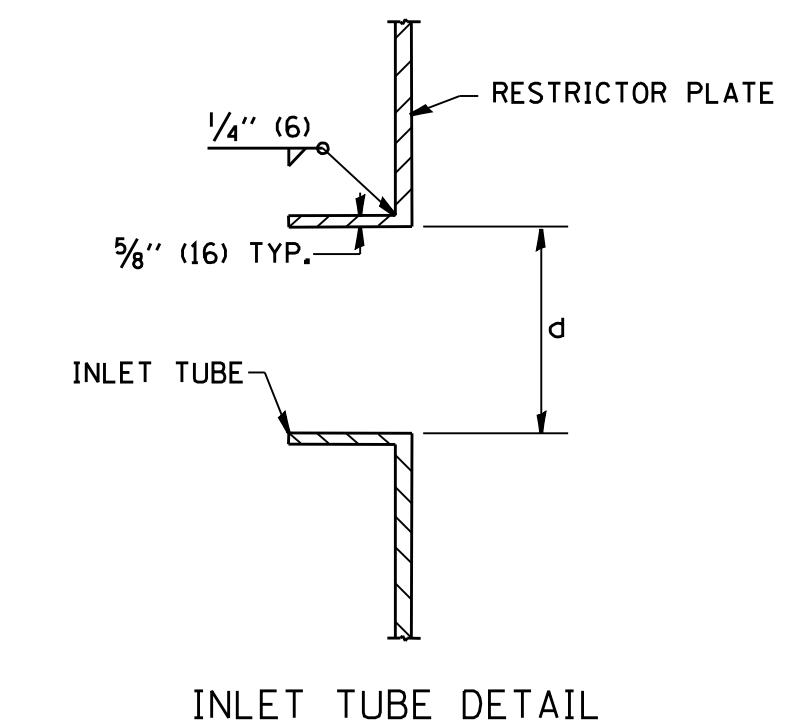
DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER

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

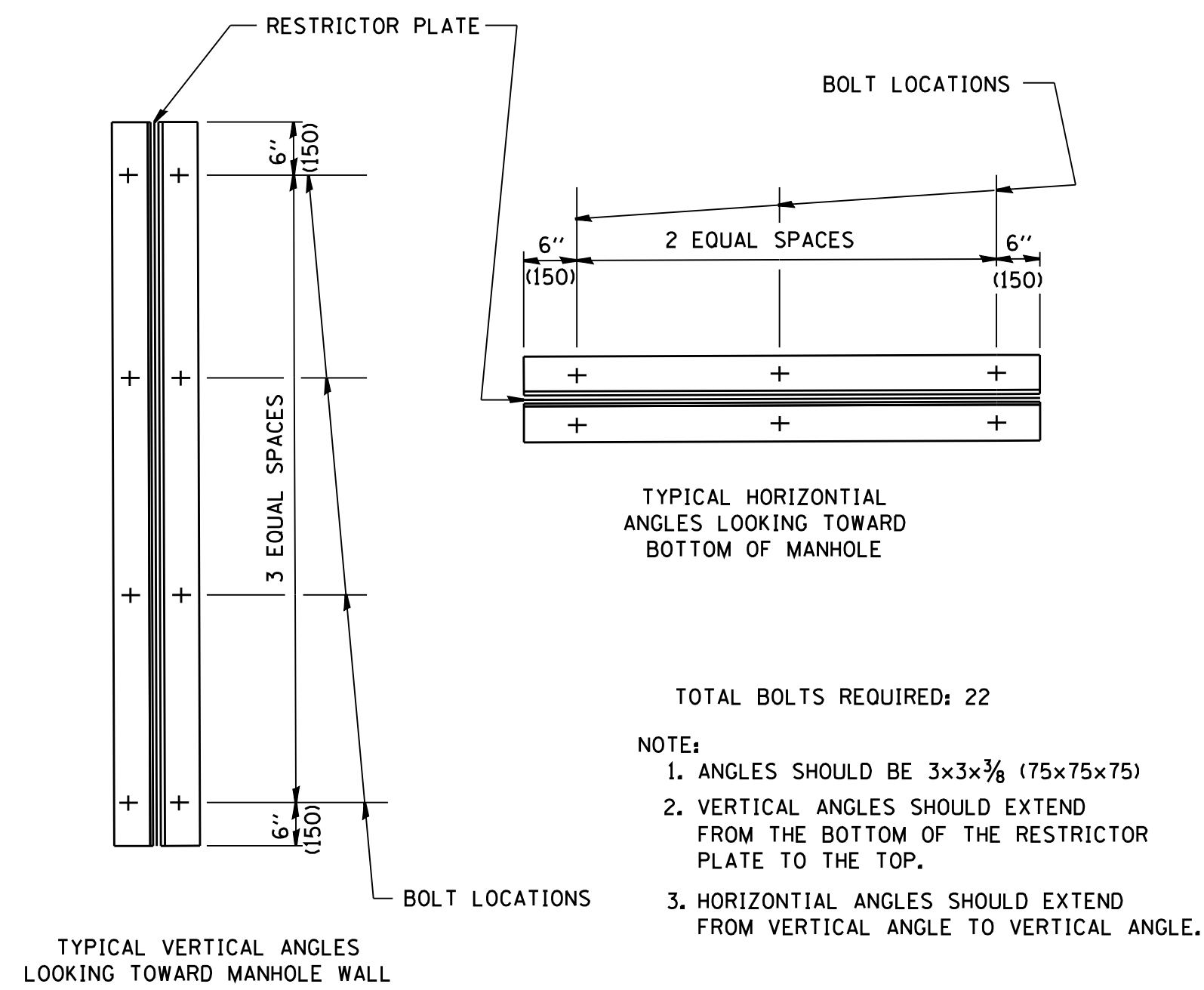
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	55
BD500-01 (BD-7)		CONTRACT NO. 60V99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
195+00	6'	TYPE 1 FRAME	STEEL PLATE	8"	689.2	691.53
		CLOSED LID				
495+40	6'	TYPE 1 FRAME	STEEL PLATE	10"	688.41	690.85
		CLOSED LID				



RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

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

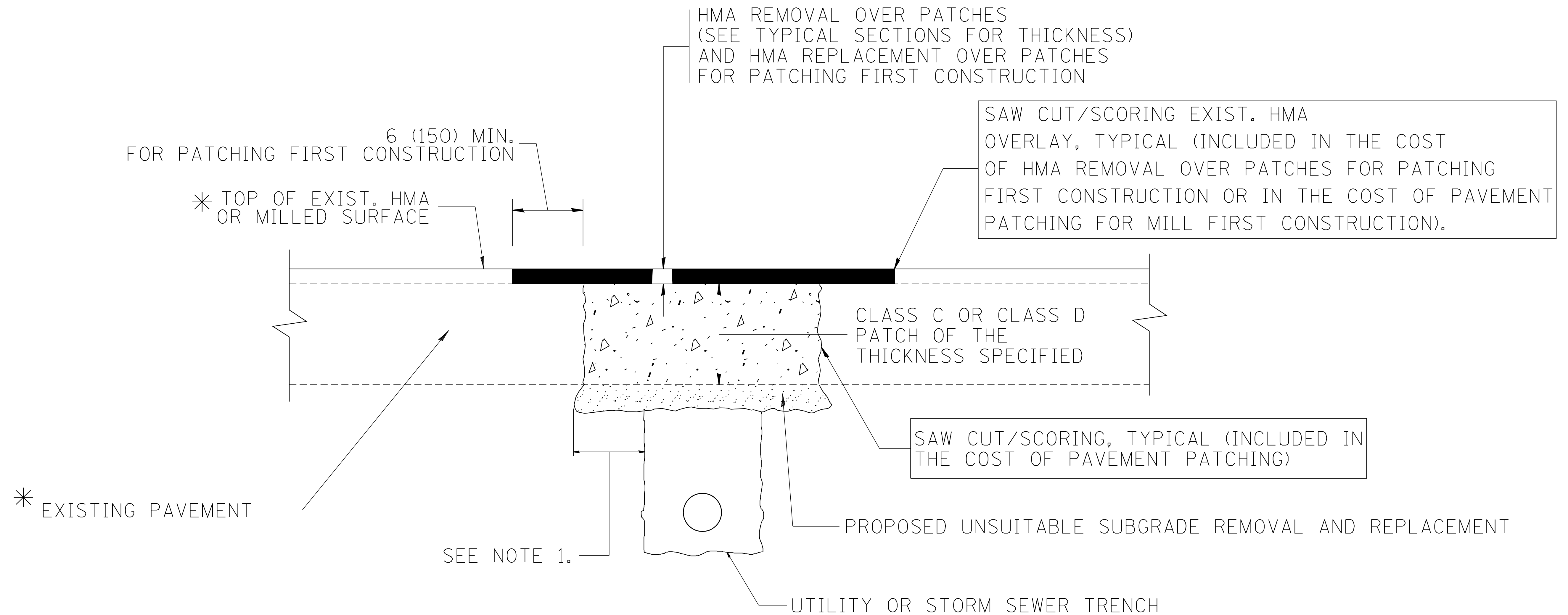
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - M. GOMEZ 01-08-01
	PLOT DATE = 1/4/2008	DATE - 09-09-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH
RESTRICTOR PLATE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	56
BD600-04 (BD-12)		CONTRACT NO. 60V99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

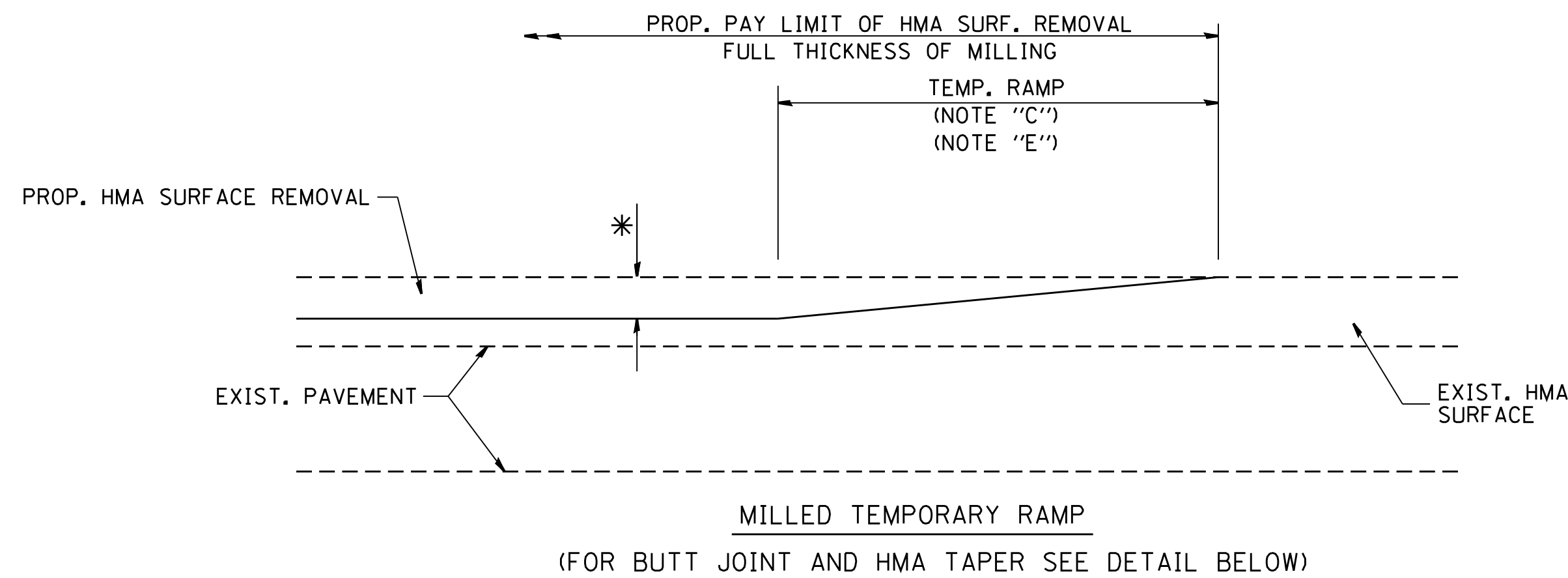
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08

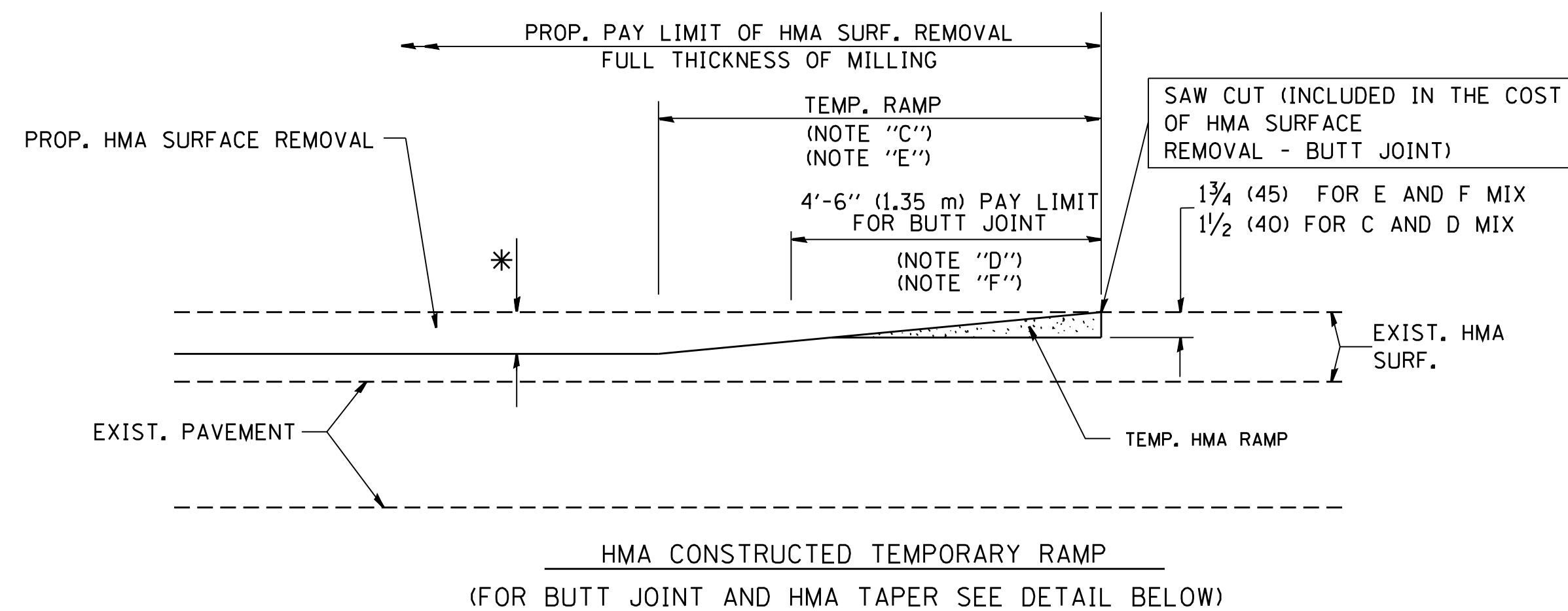
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	57
BD400-04 (BD-22)			CONTRACT NO. 60V99	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

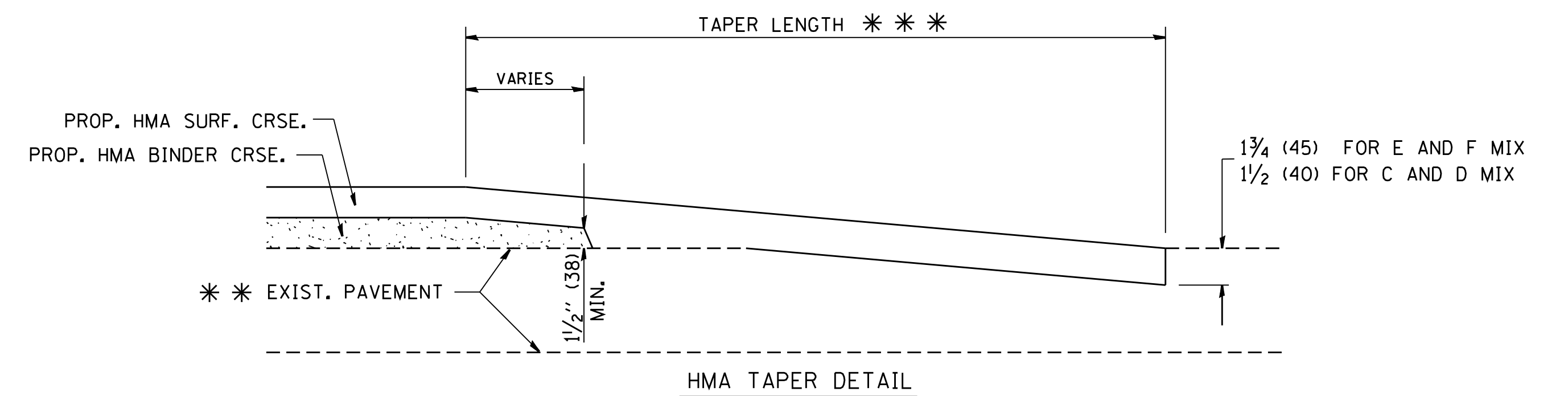
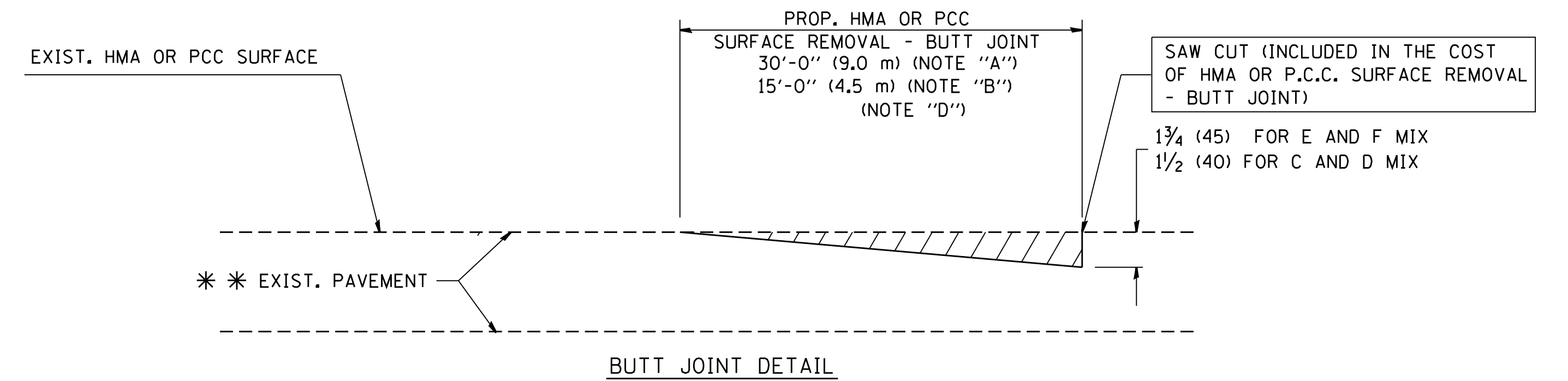


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

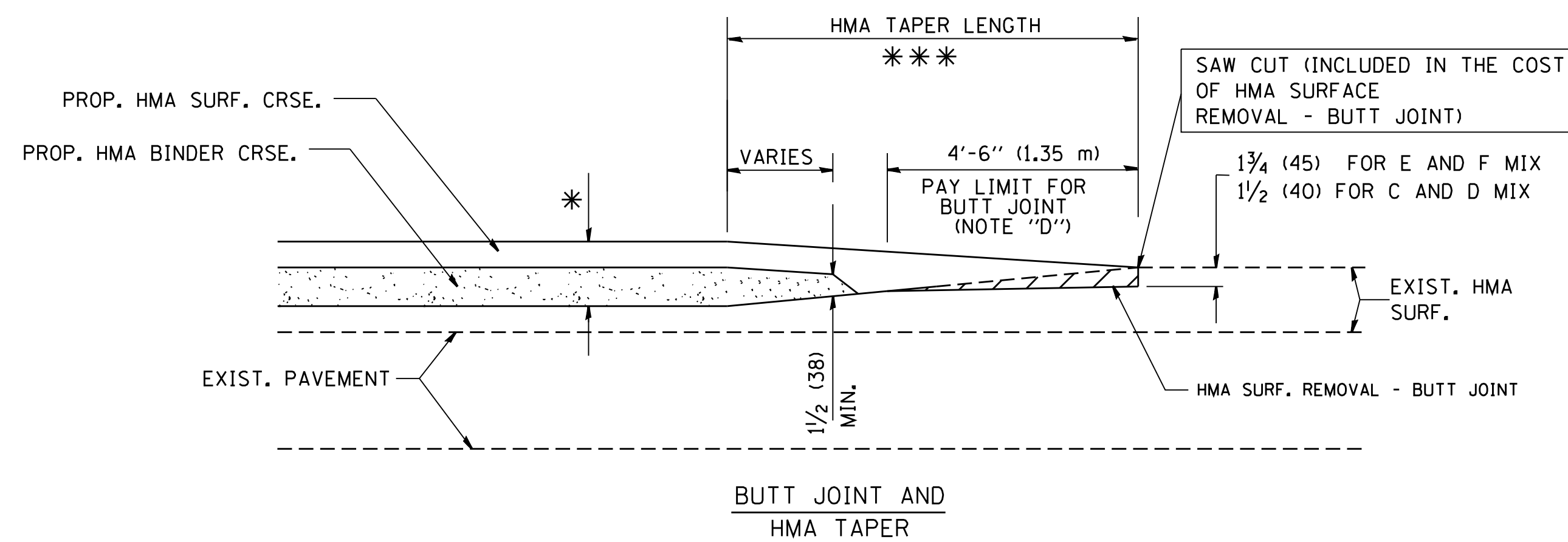
NOTES

- 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")

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".

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



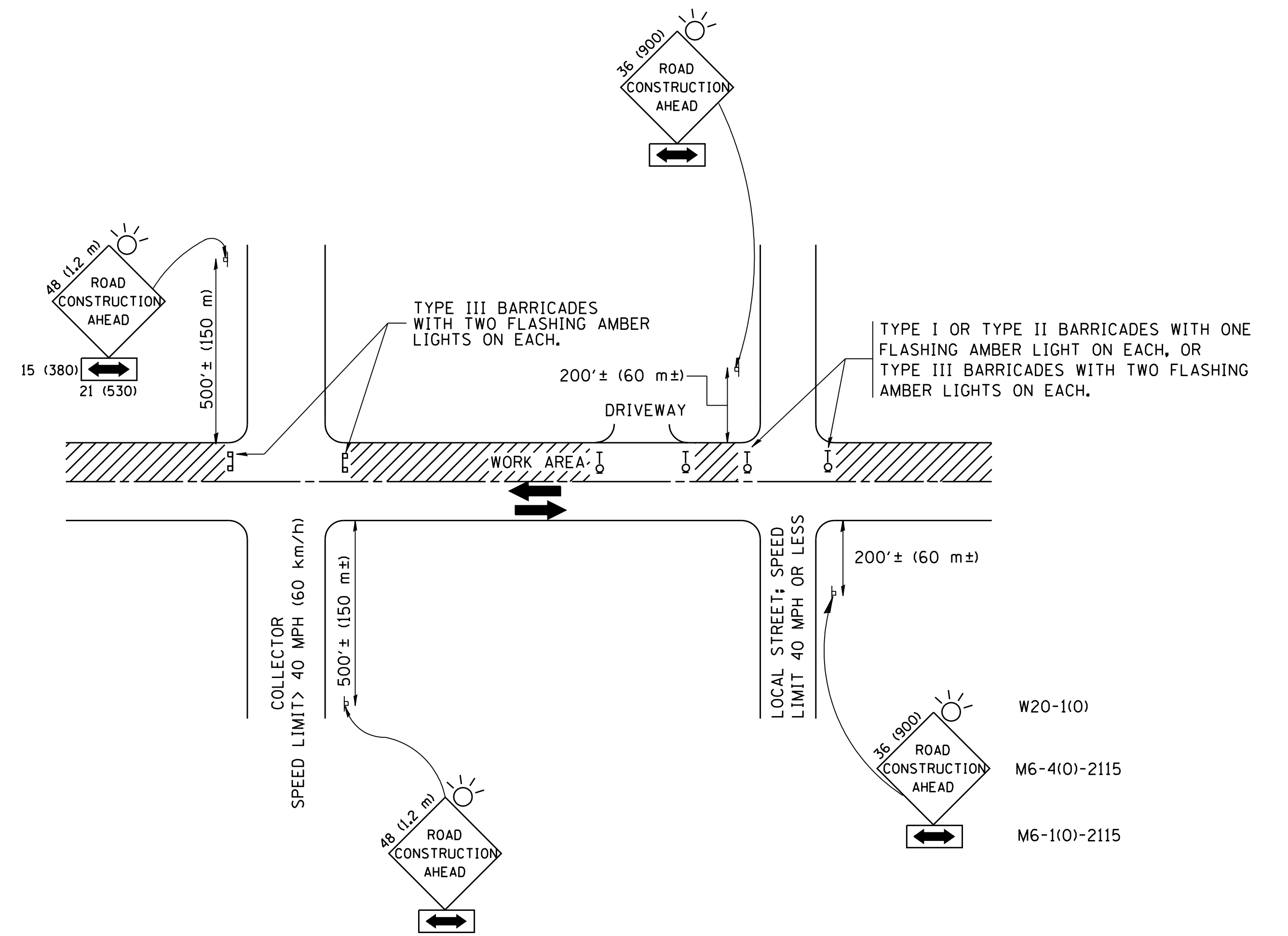
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 350	SECTION 101N-2(12)	COUNTY COOK	TOTAL SHEETS 73	SHEET NO. 58
BD400-05 BD32		CONTRACT NO. 60V99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

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

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

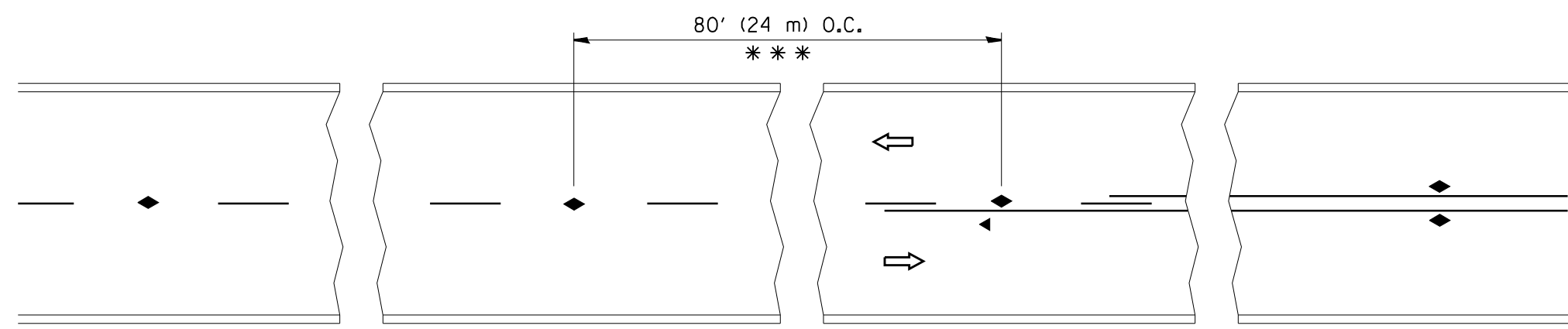
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

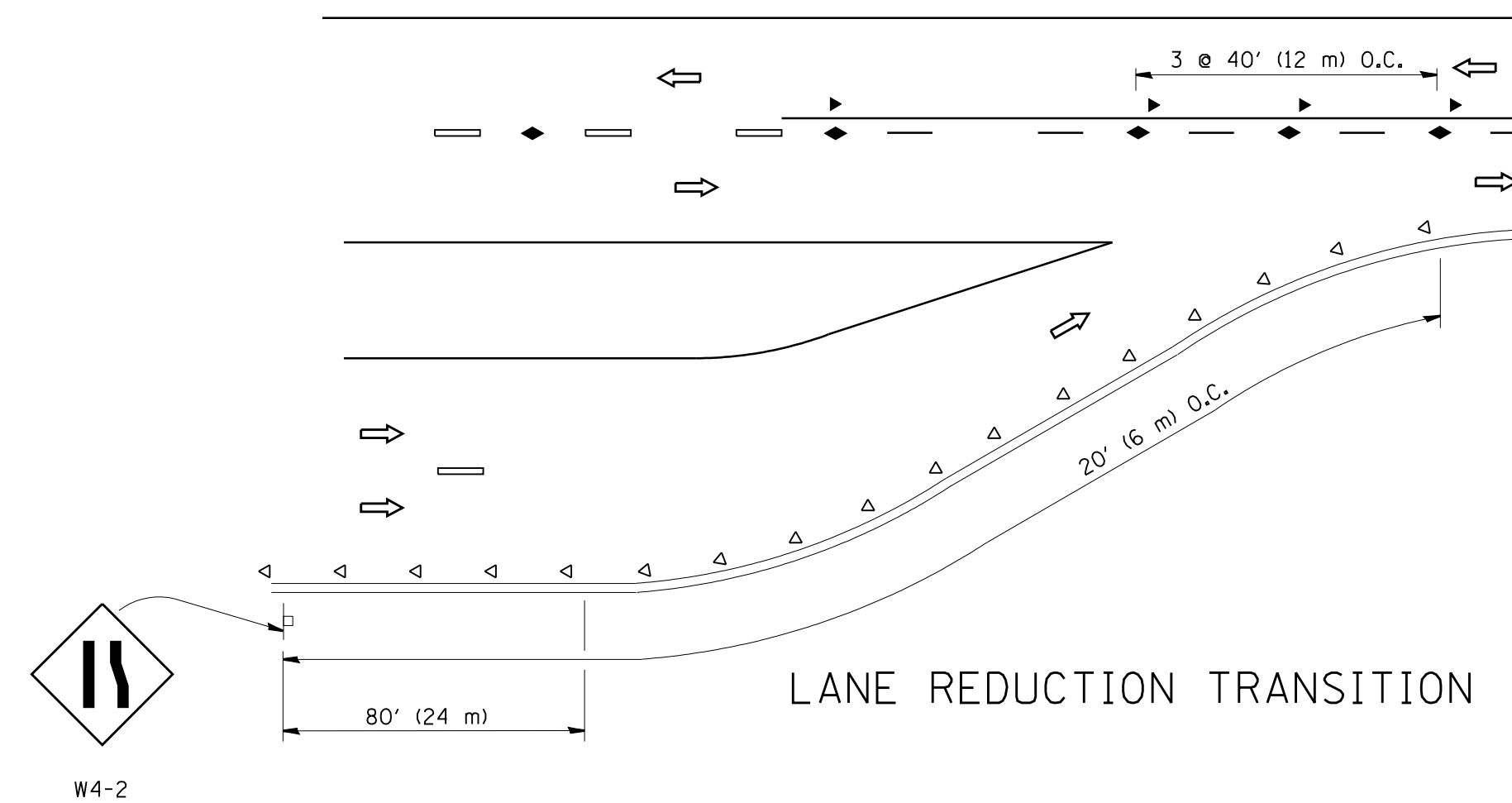
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60V99	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

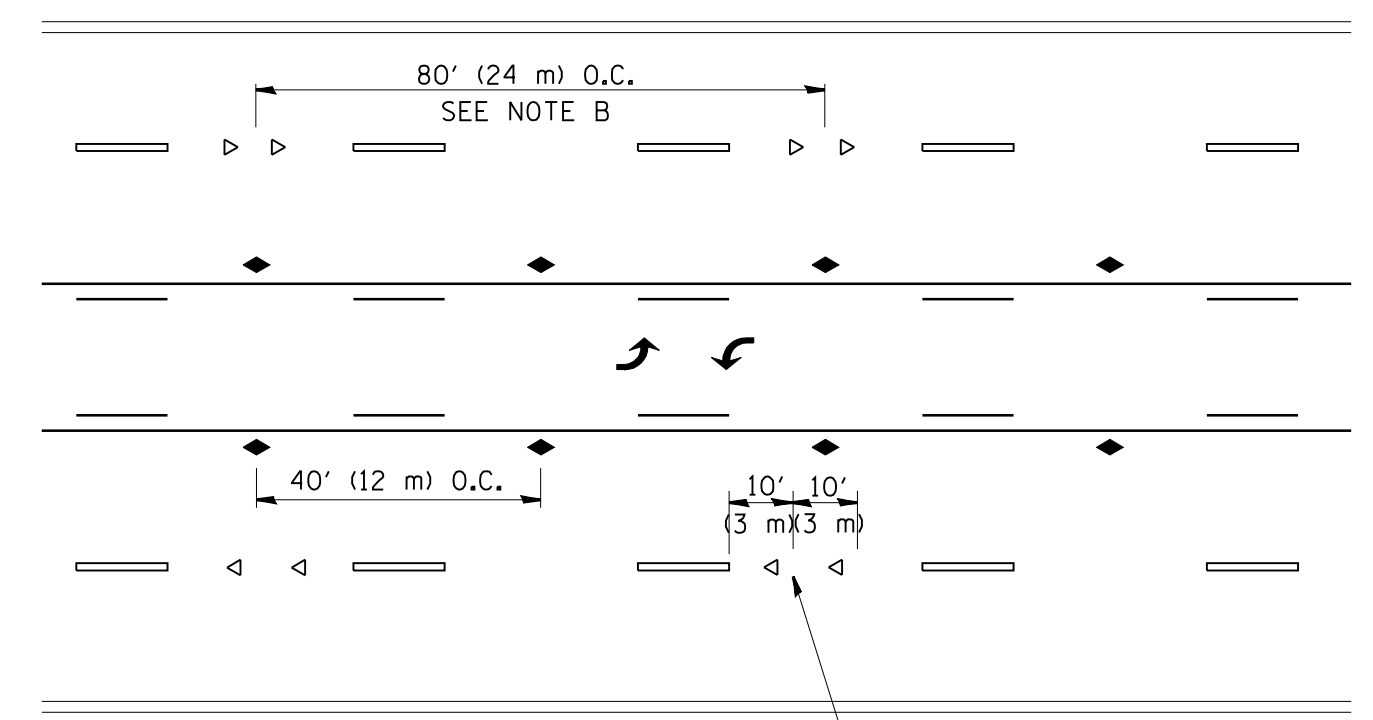


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

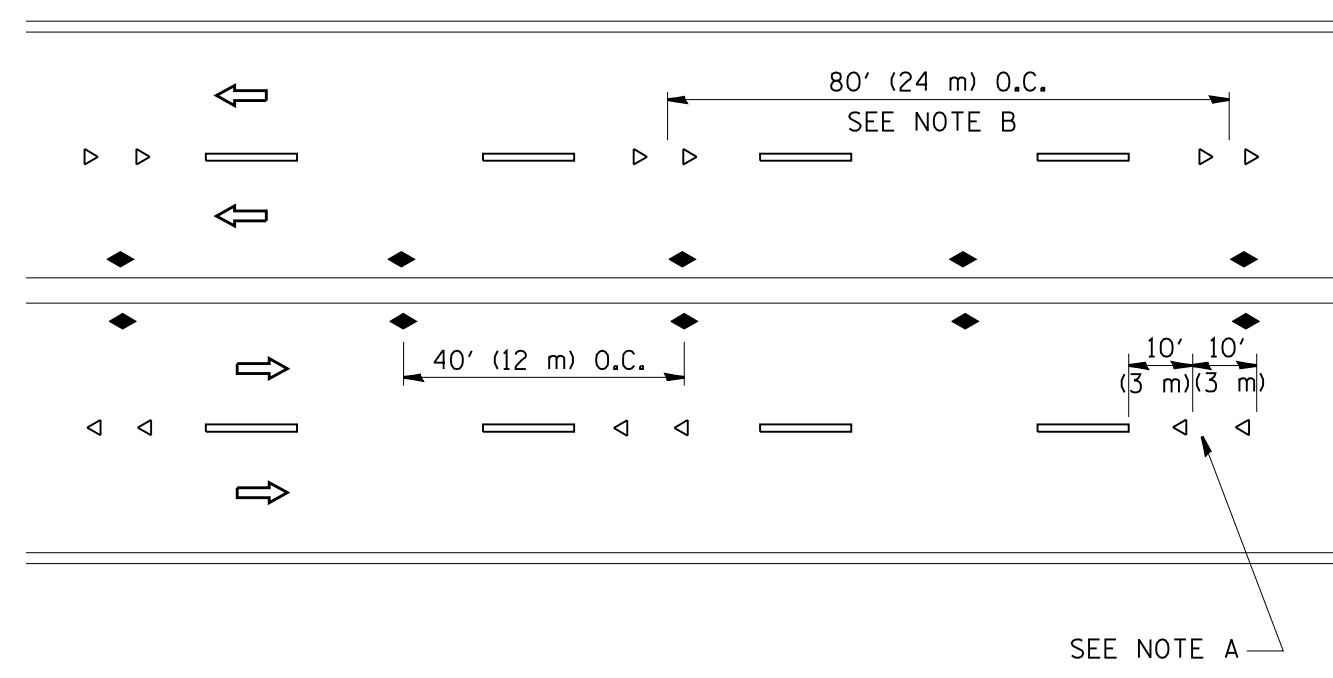
TWO-LANE/TWO-WAY



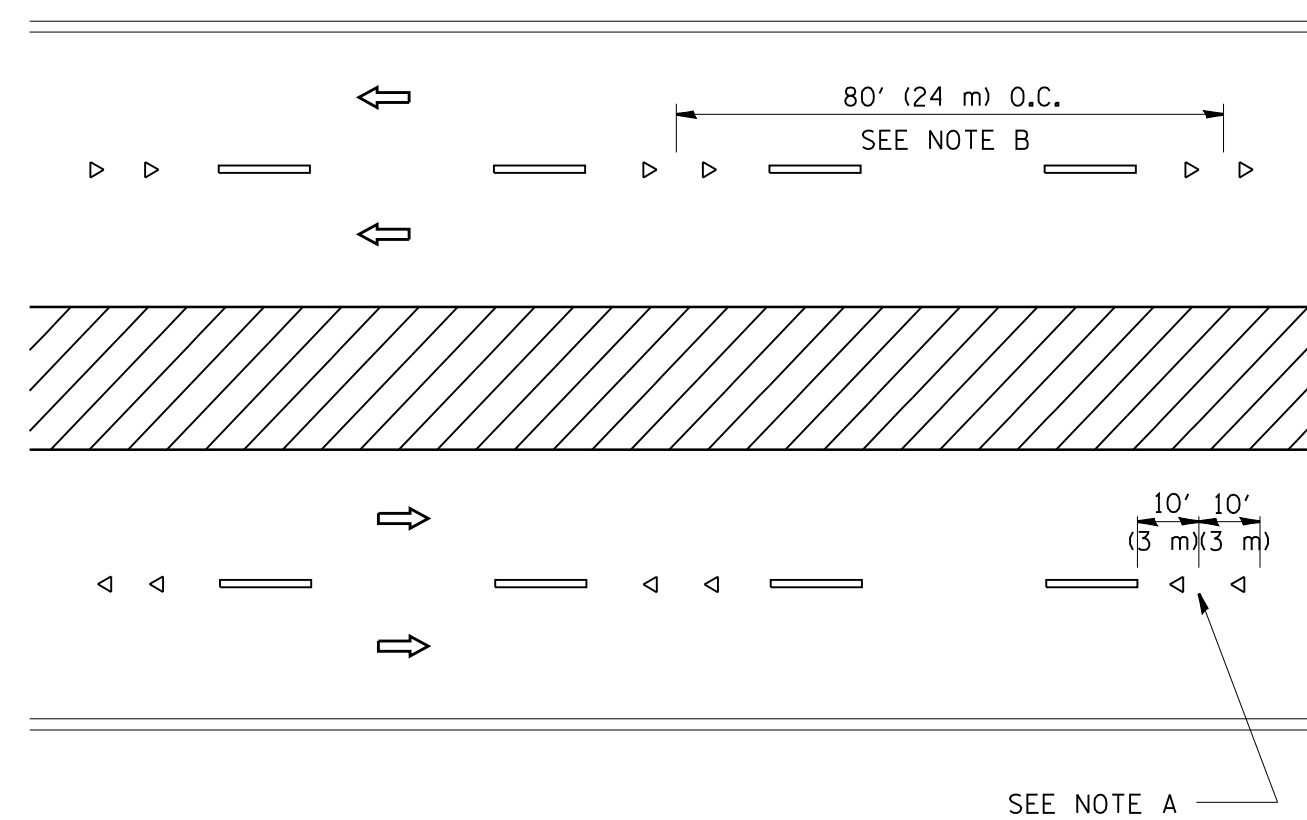
LANE REDUCTION TRANSITION



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

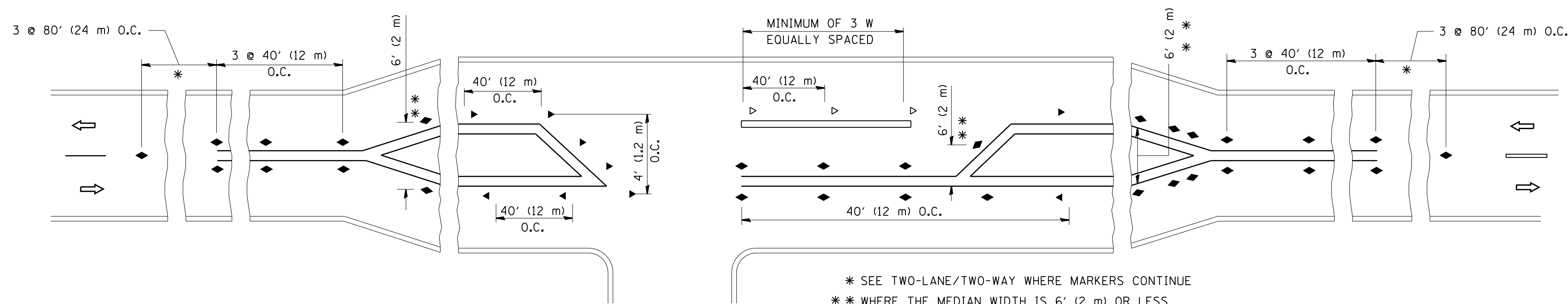
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
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 inches (millimeters) unless otherwise shown.

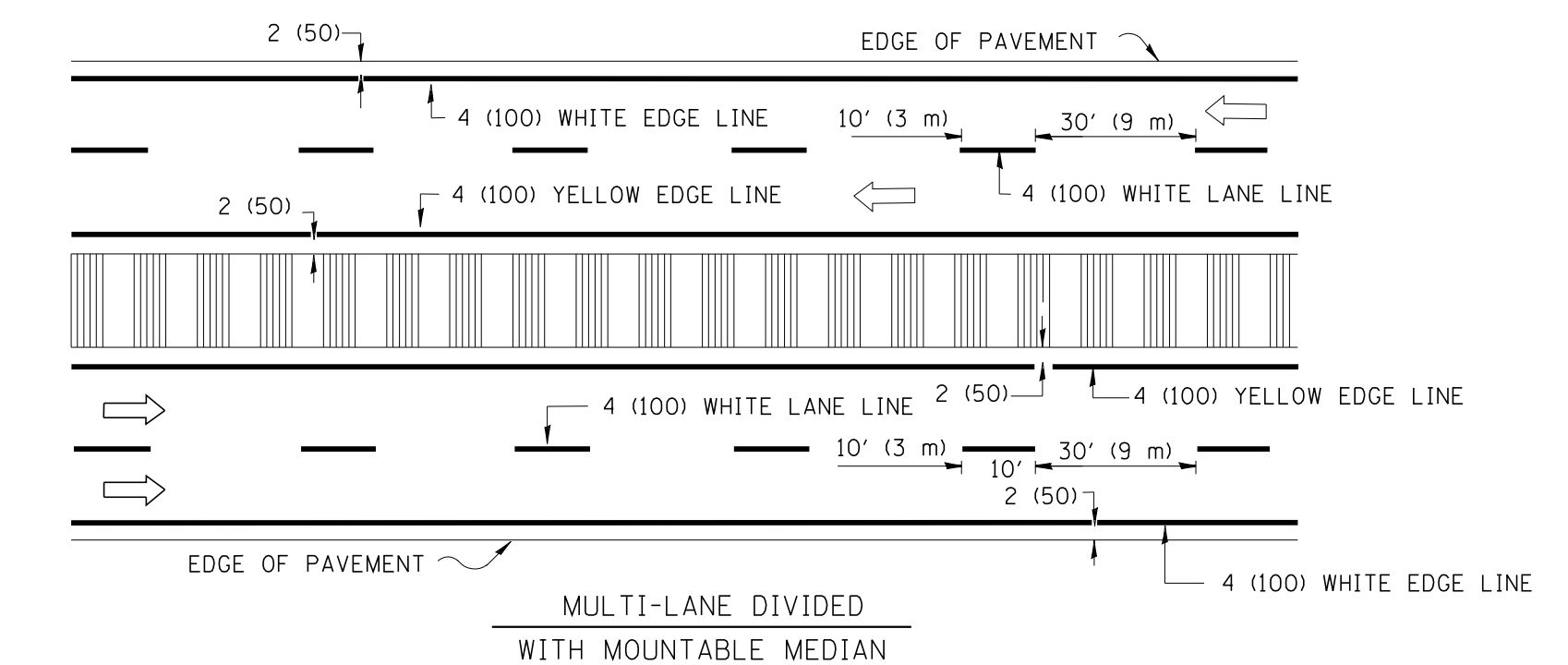
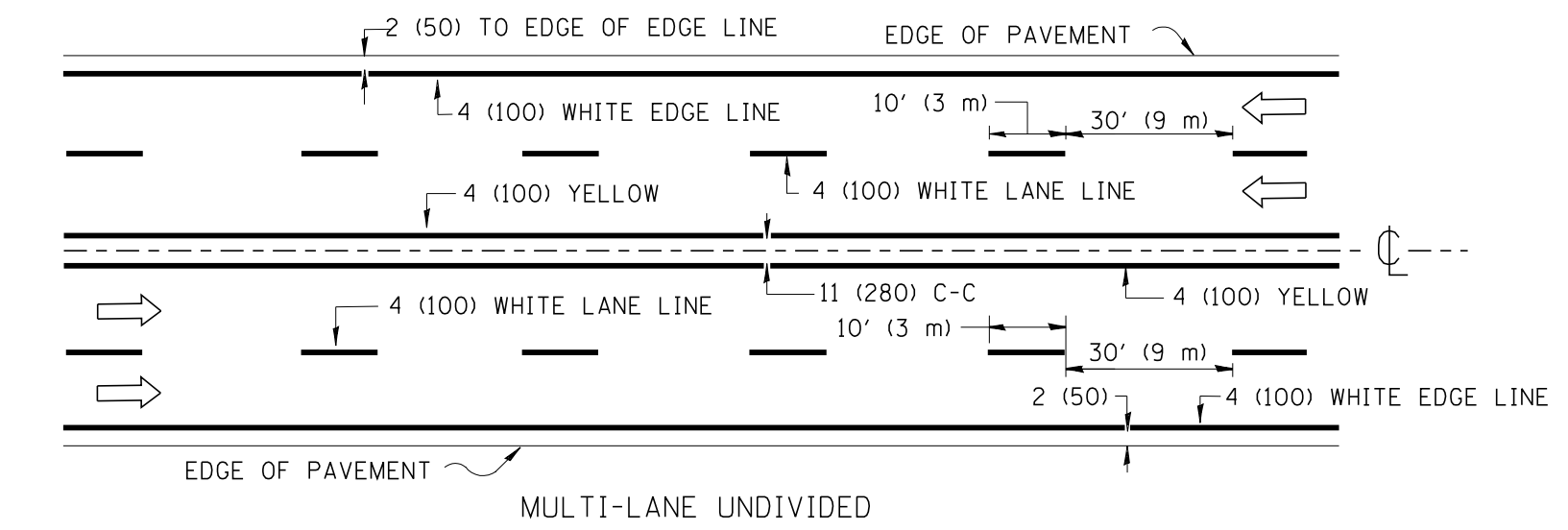
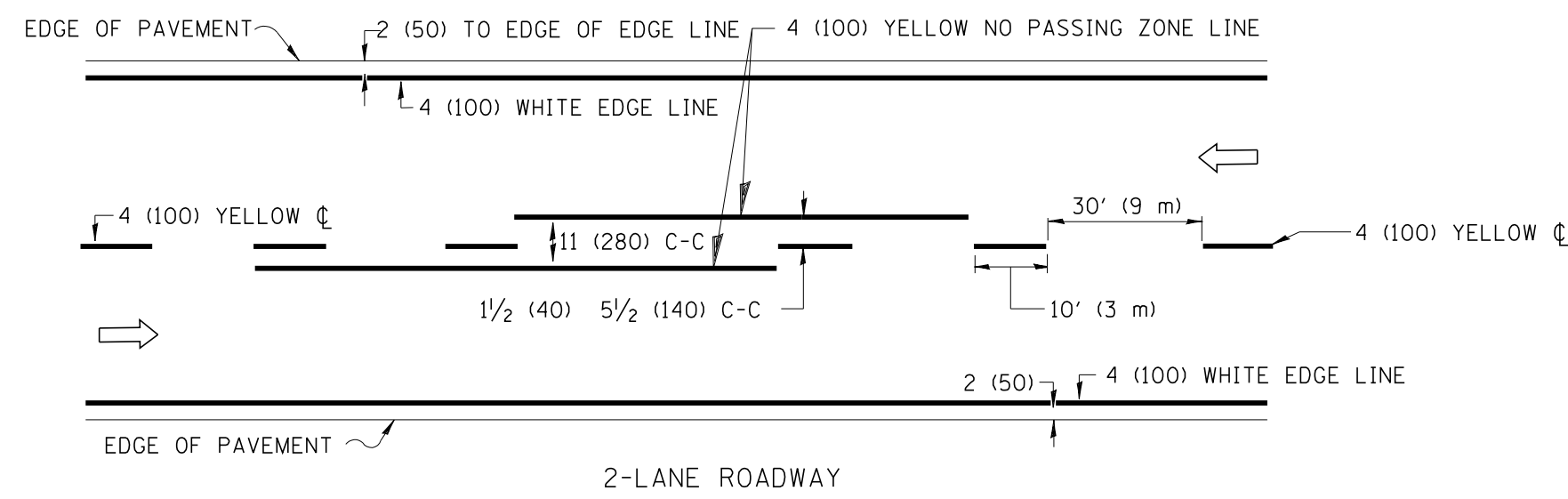
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

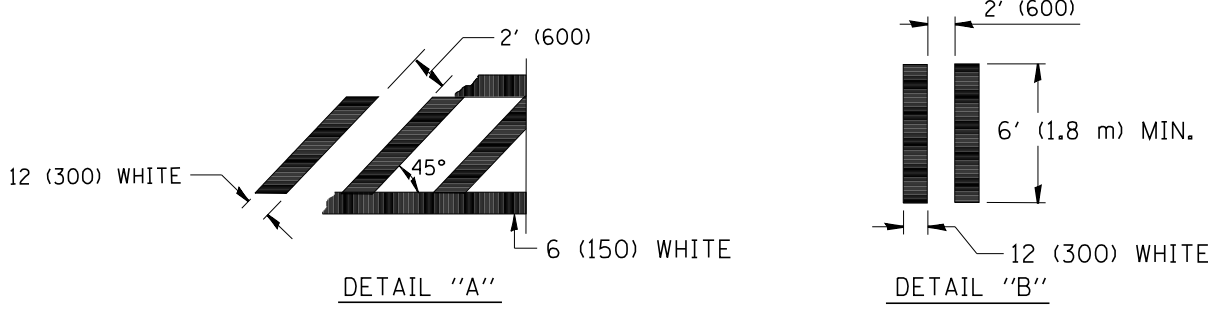
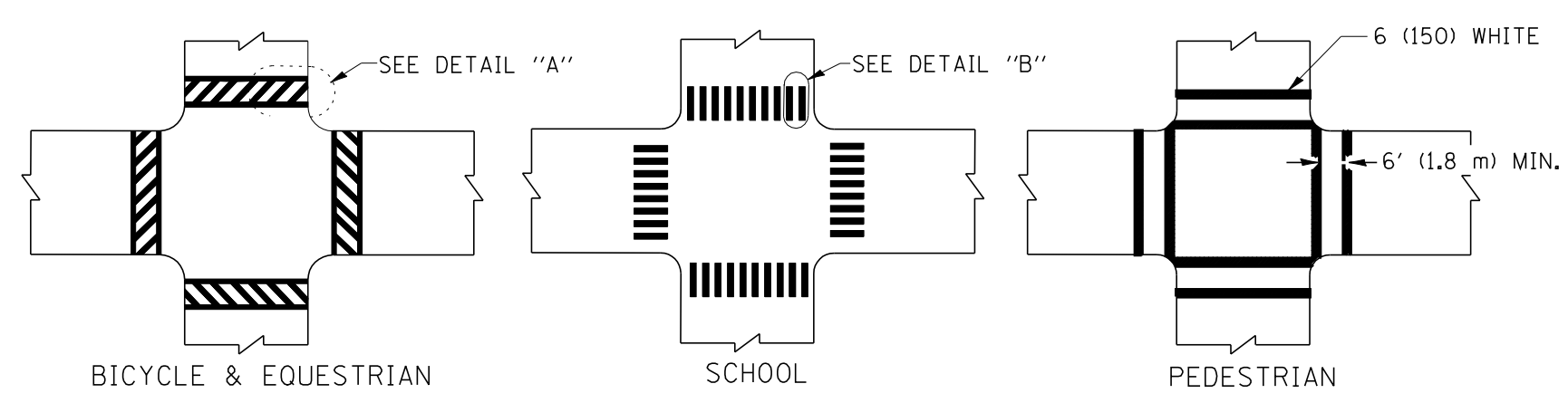
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 350	SECTION 101N-2(12)	COUNTY COOK	TOTAL SHEETS 73	SHEET NO. 60
TC-11		CONTRACT NO. 60V99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

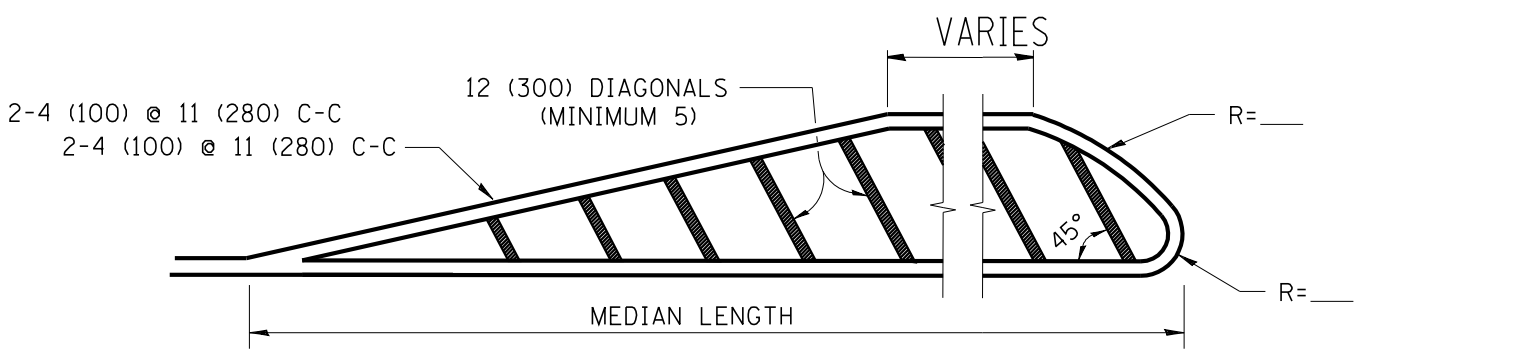
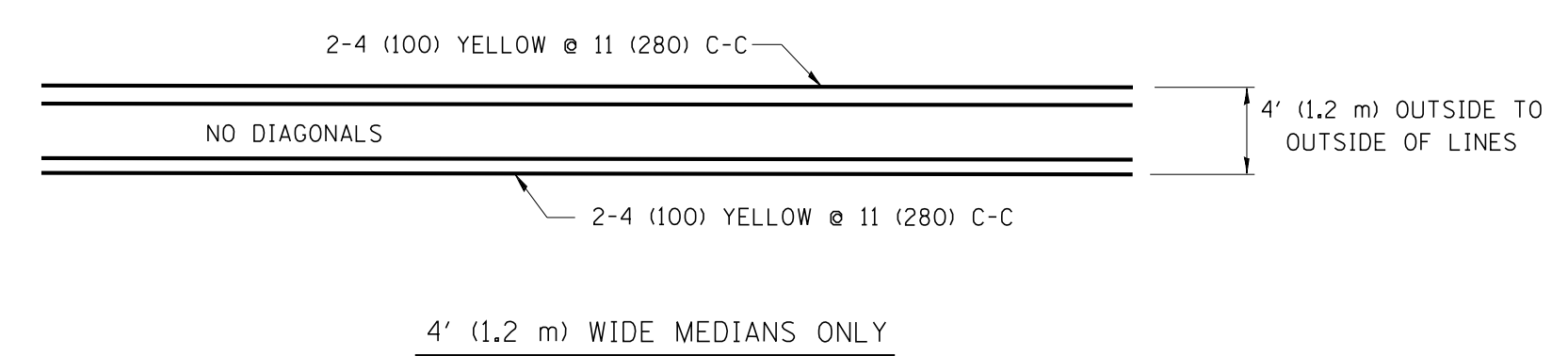


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

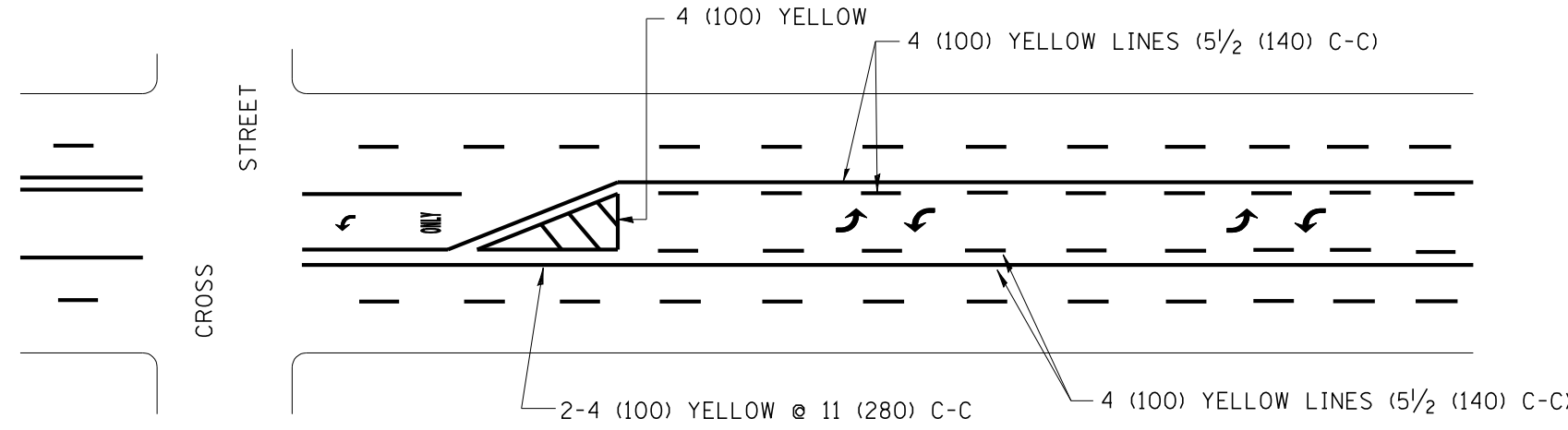


TYPICAL CROSSWALK MARKING

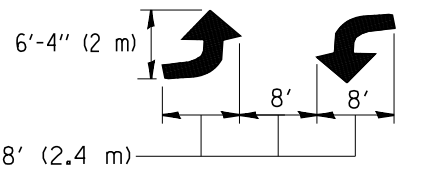


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

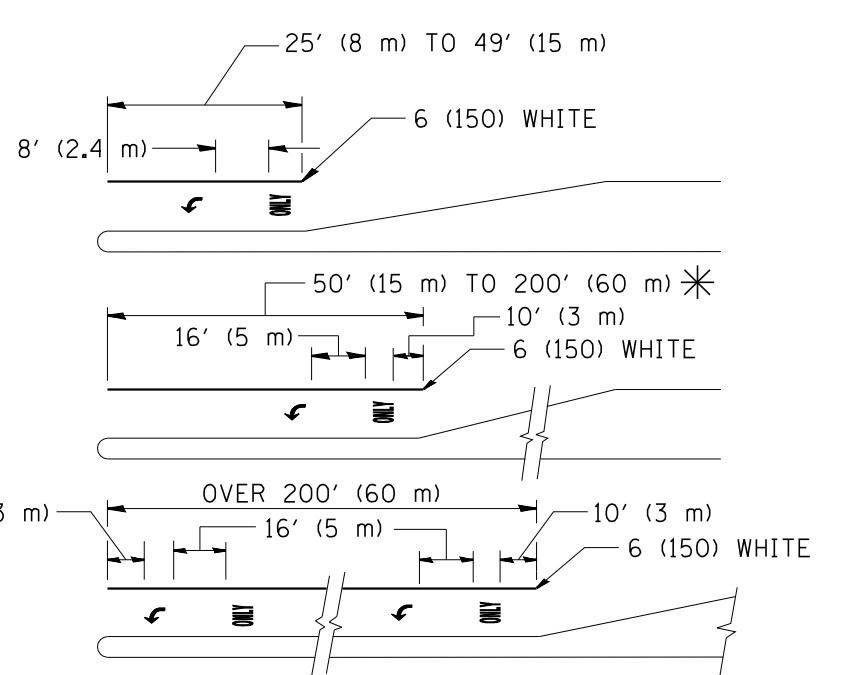


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

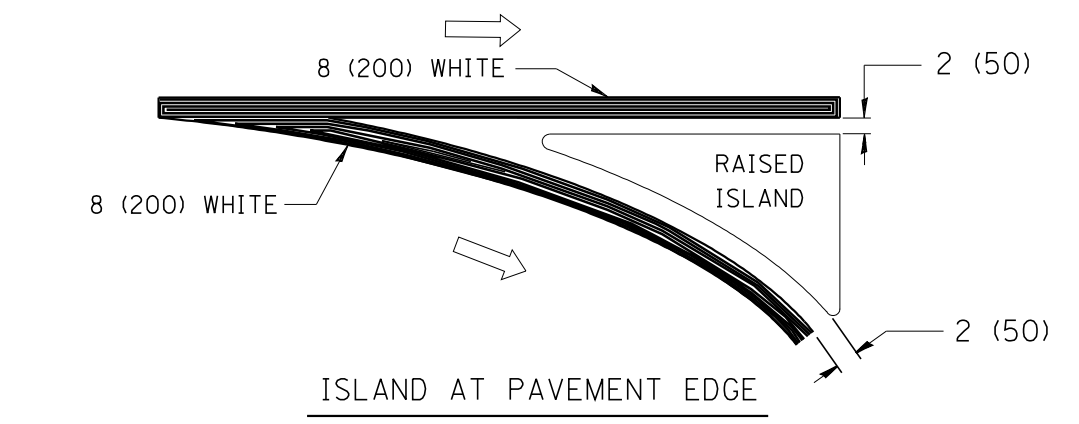
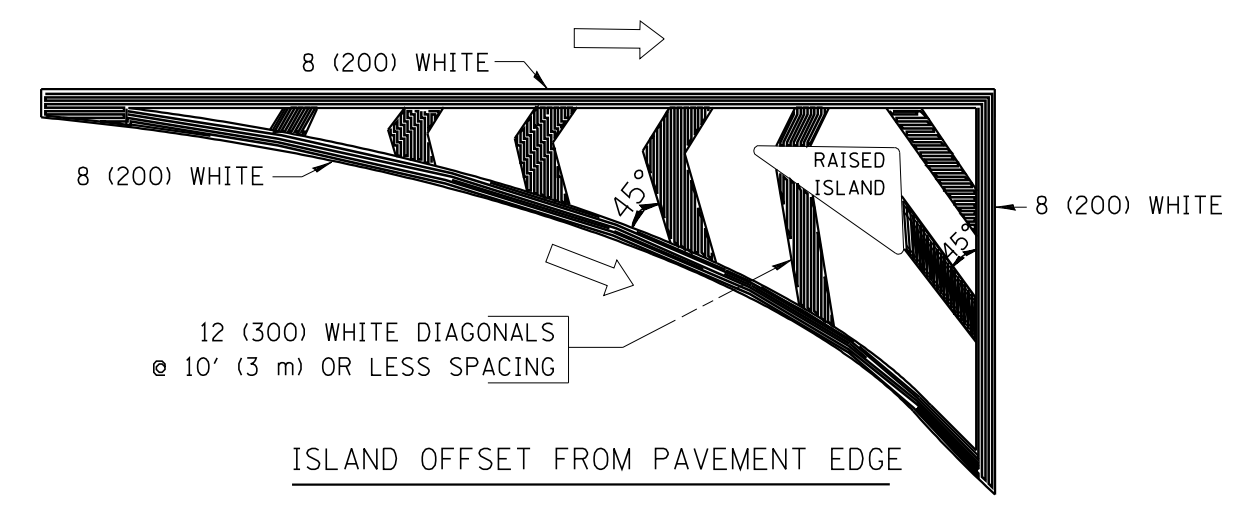


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

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

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

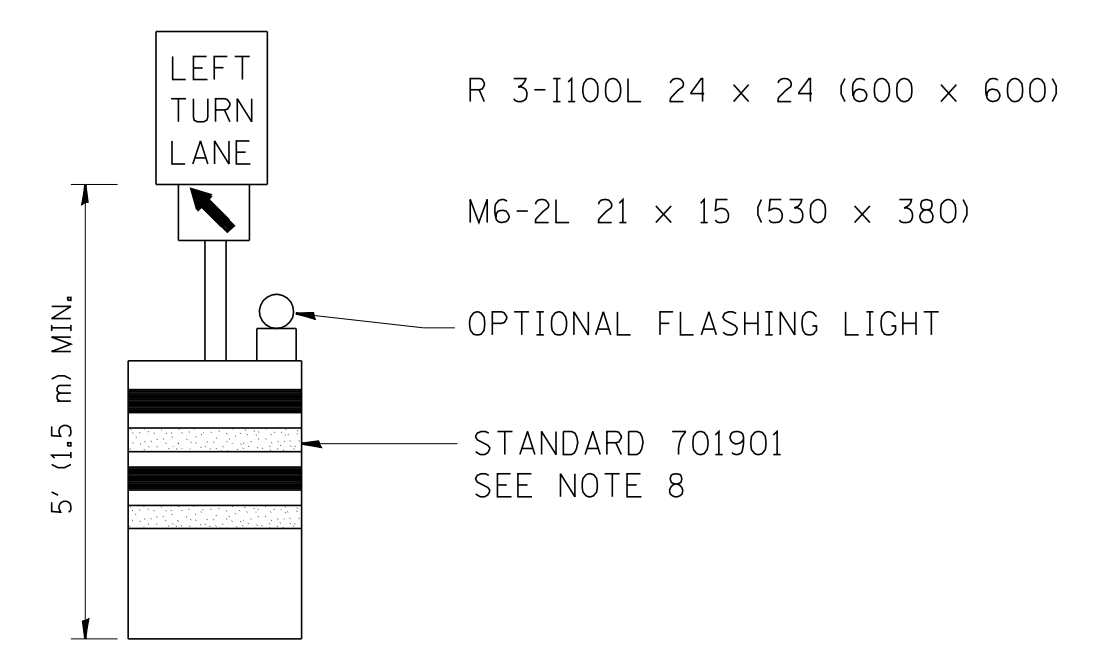
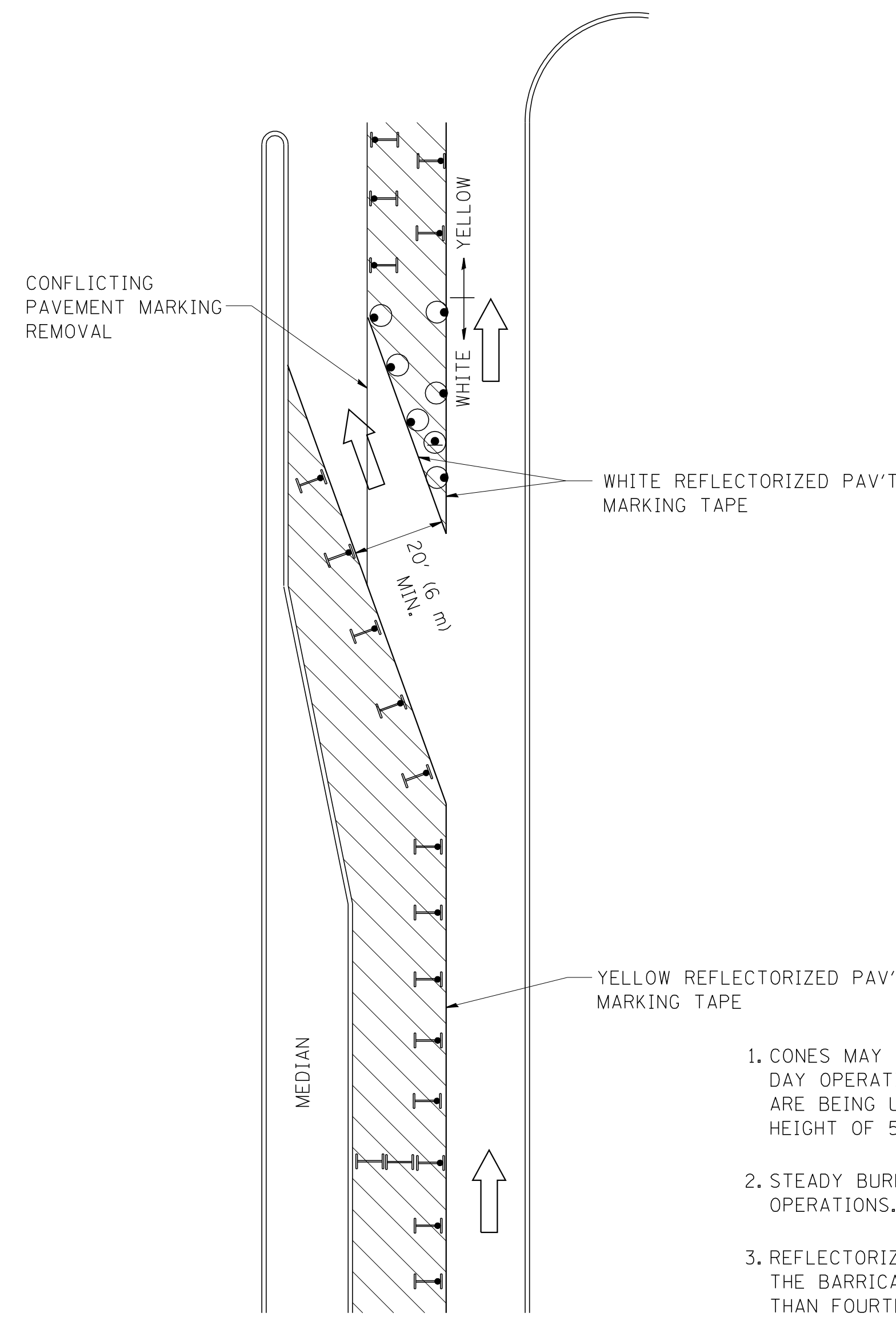
All dimensions are in inches (millimeters) unless otherwise shown.

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		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE. 350	SECTION 101N-2(12)	COUNTY COOK	TOTAL SHEETS 73	SHEET NO. 61
TC-13		CONTRACT NO. 60V99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



GENERAL NOTES

1. 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).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

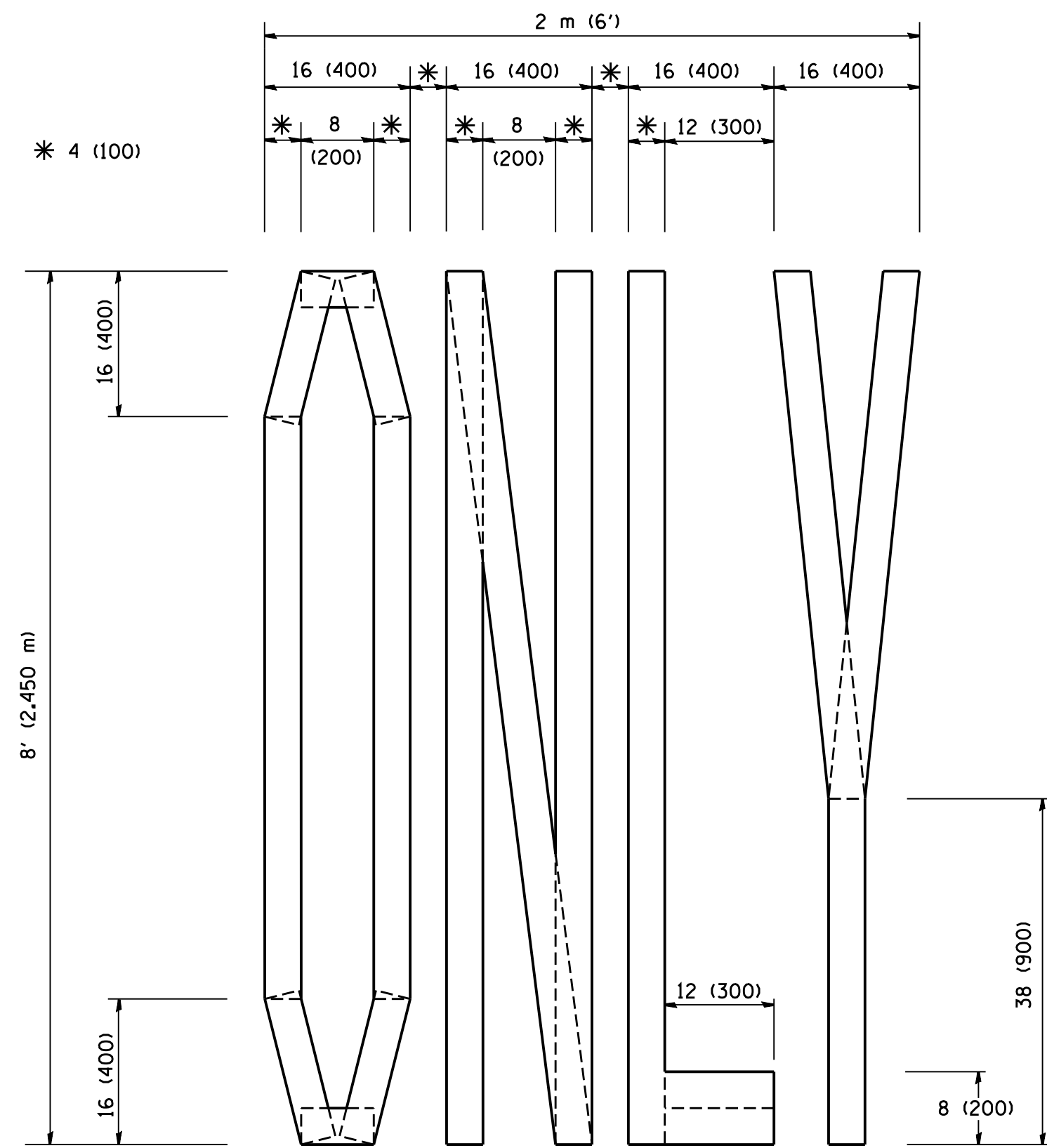
- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = drivakosgn	REVISED -T, RAMMACHER 09-08-94	REVISED - R, BORO 09-14-09
et:\pw\work\PWIDOT\DRIVAKOSGN\d0108315\14.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 49.9999' / IN.	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 9/14/2009	REVISED -T, RAMMACHER 01-06-00	REVISED -

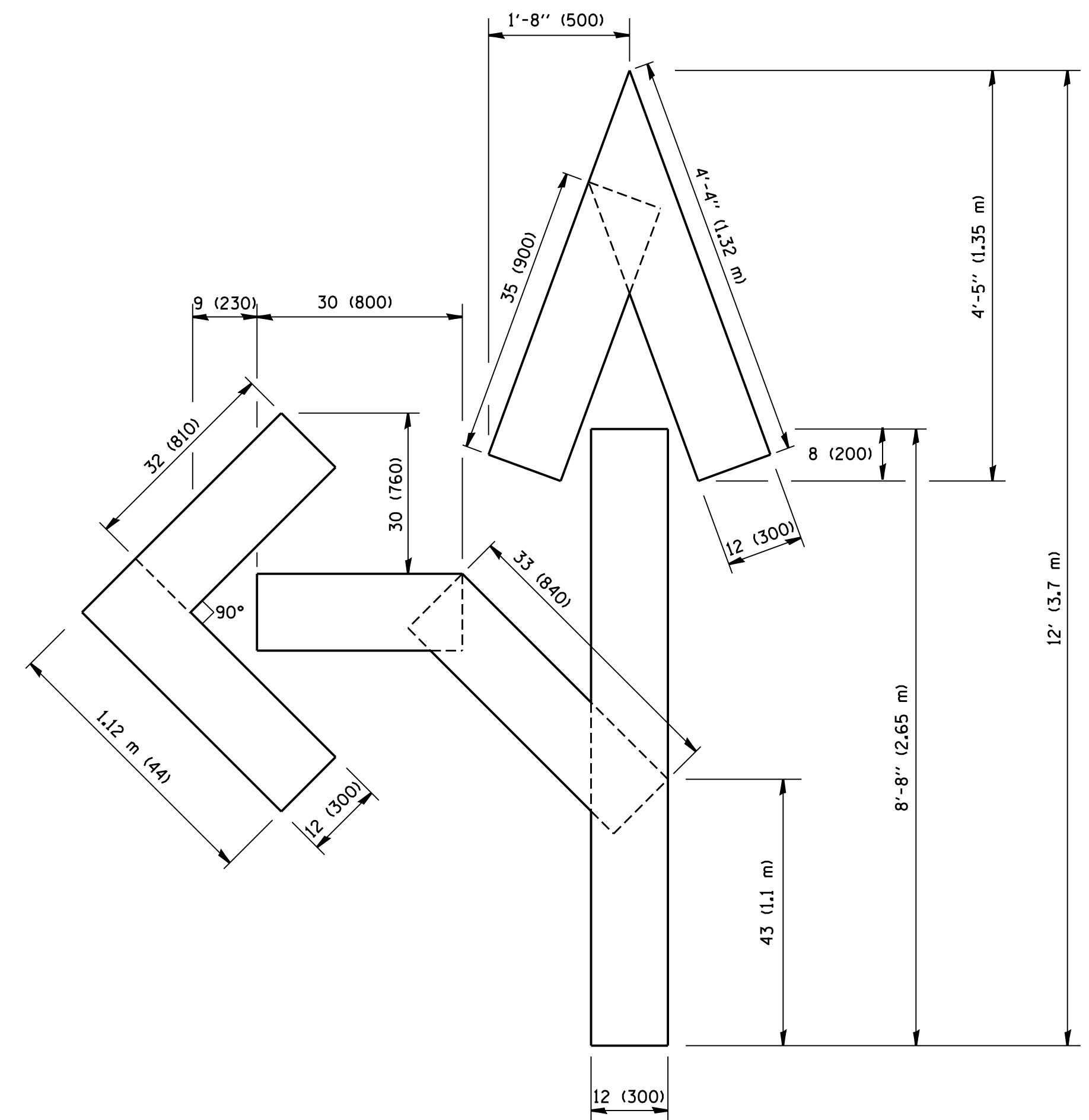
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

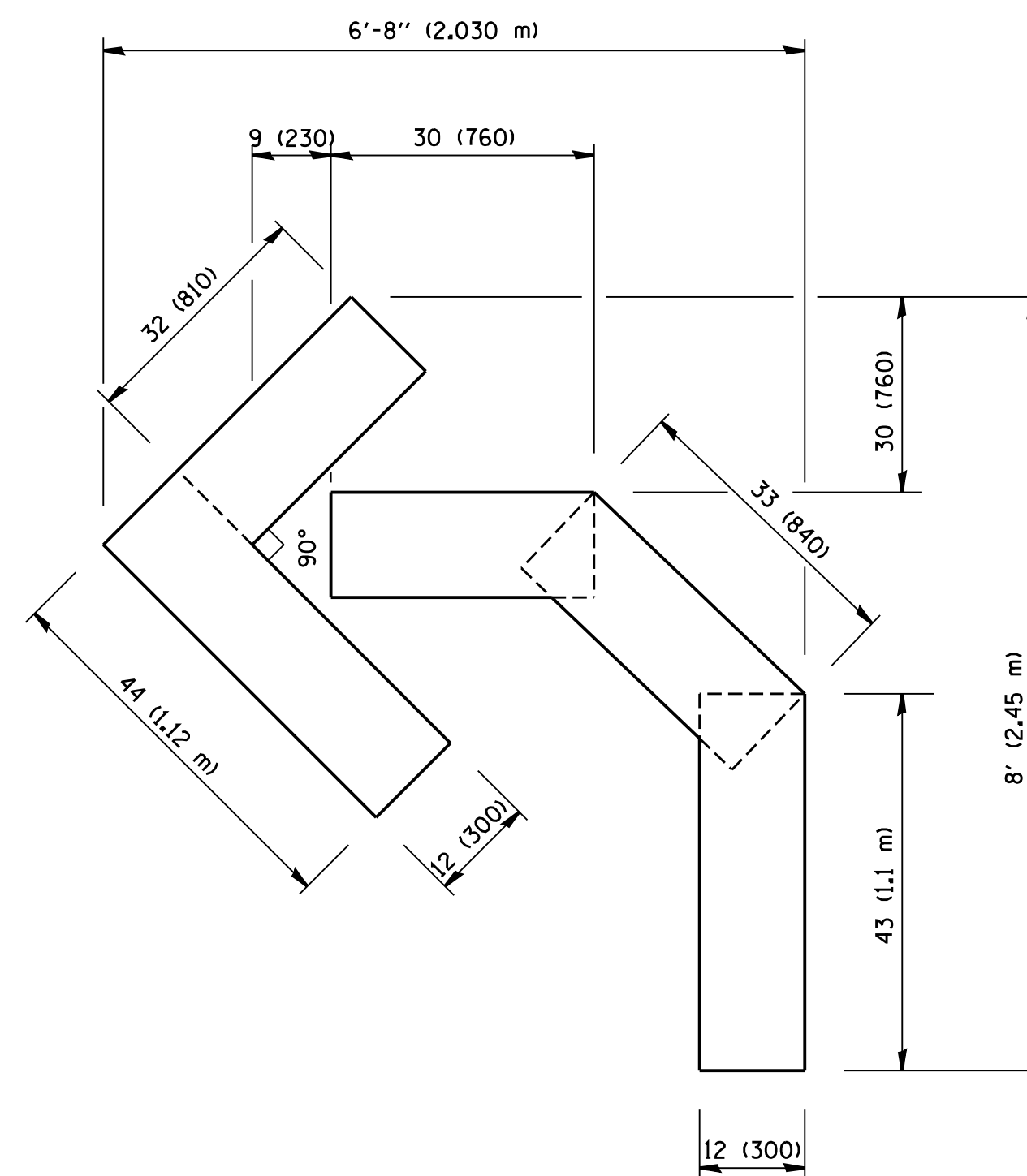
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	62
TC-14		CONTRACT NO. 60V99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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 inches (millimeters) unless otherwise shown.

FILE NAME = W:\diststd\22x34\tbl6.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

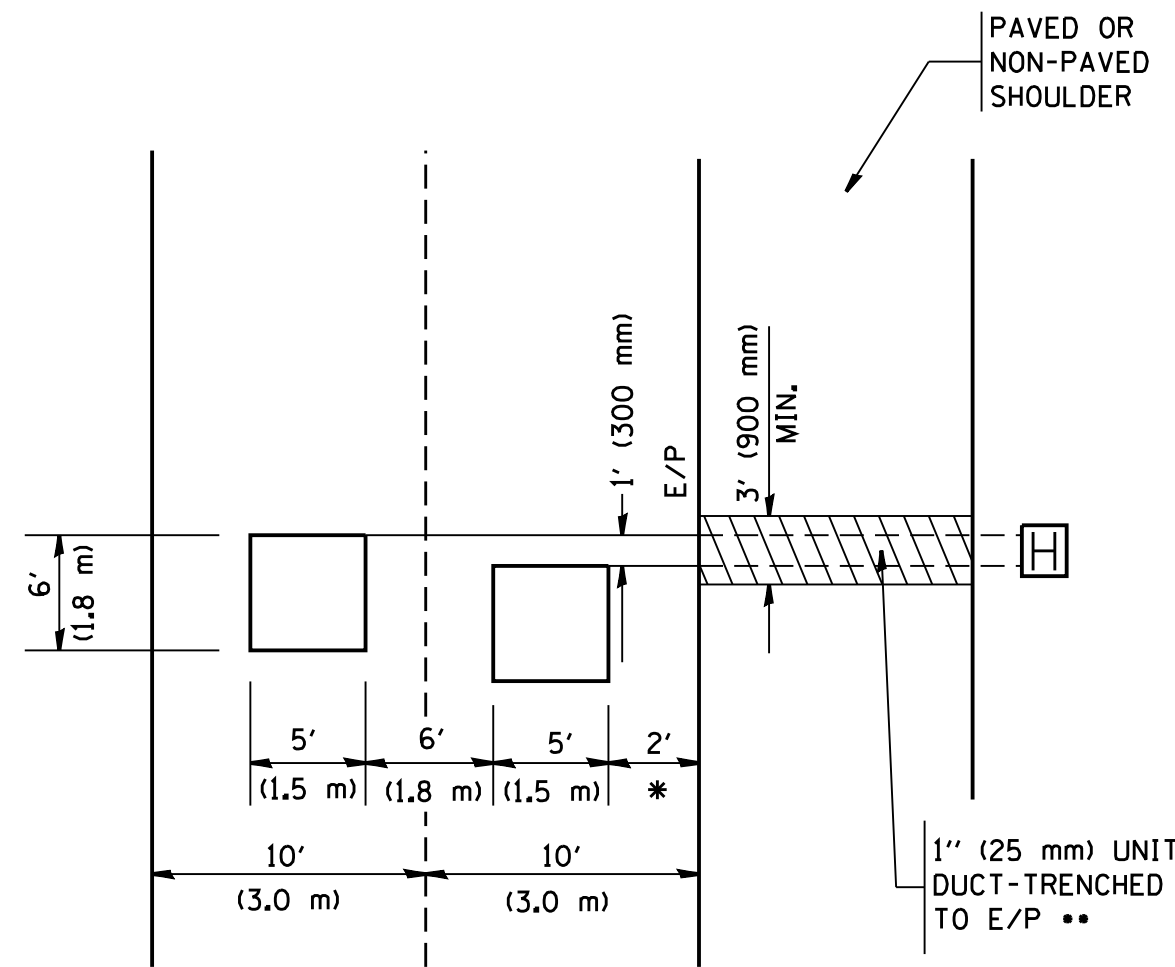
**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

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

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	63
TC-16			CONTRACT NO. 60V99	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



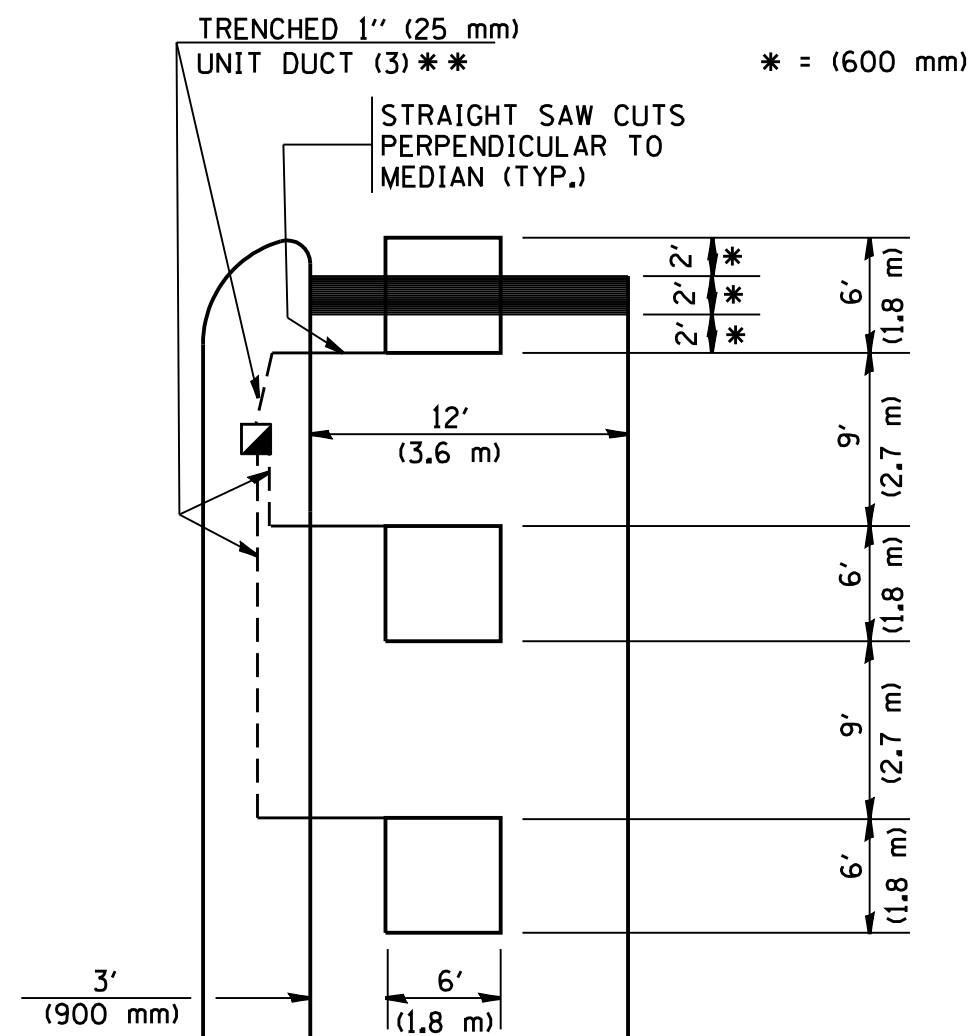
* = (600 mm)

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

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

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



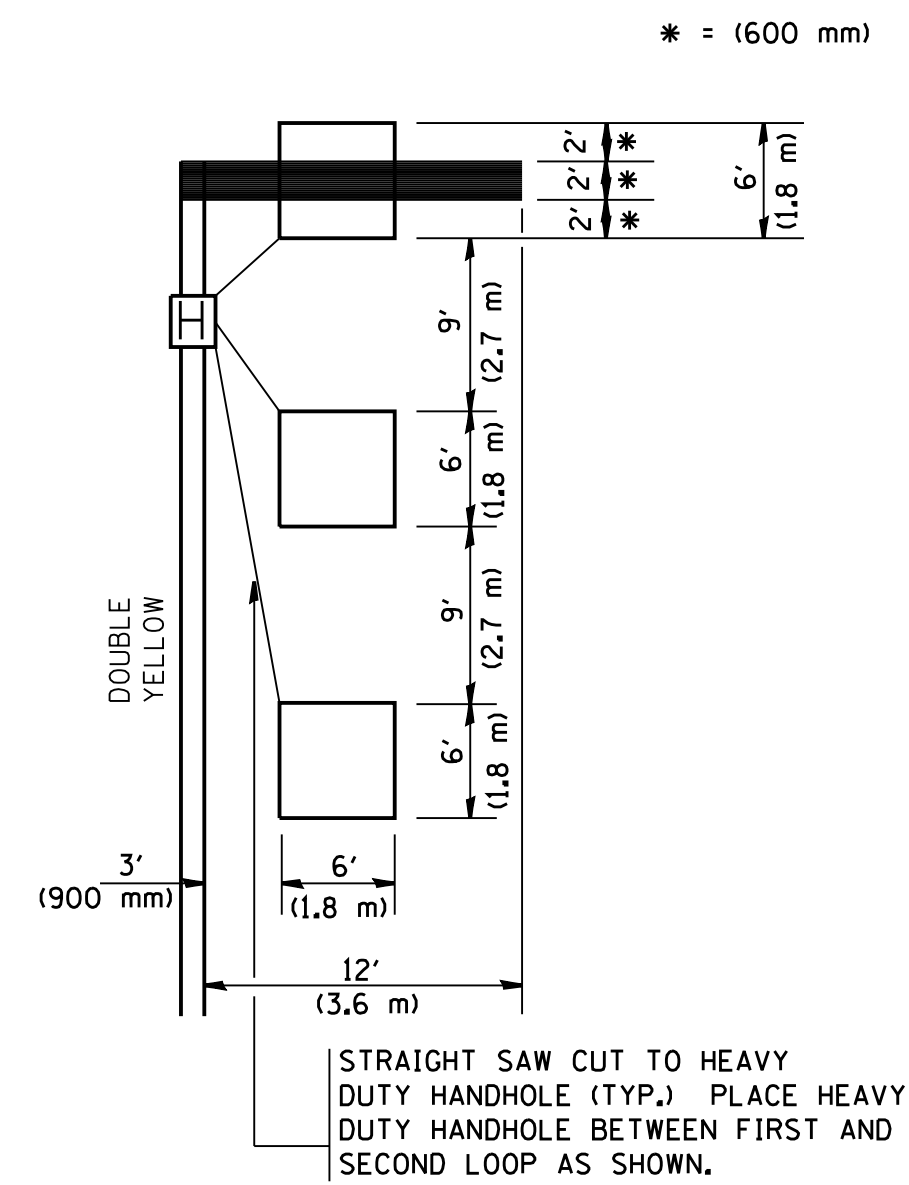
* = (600 mm)

** 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)



* = (600 mm)

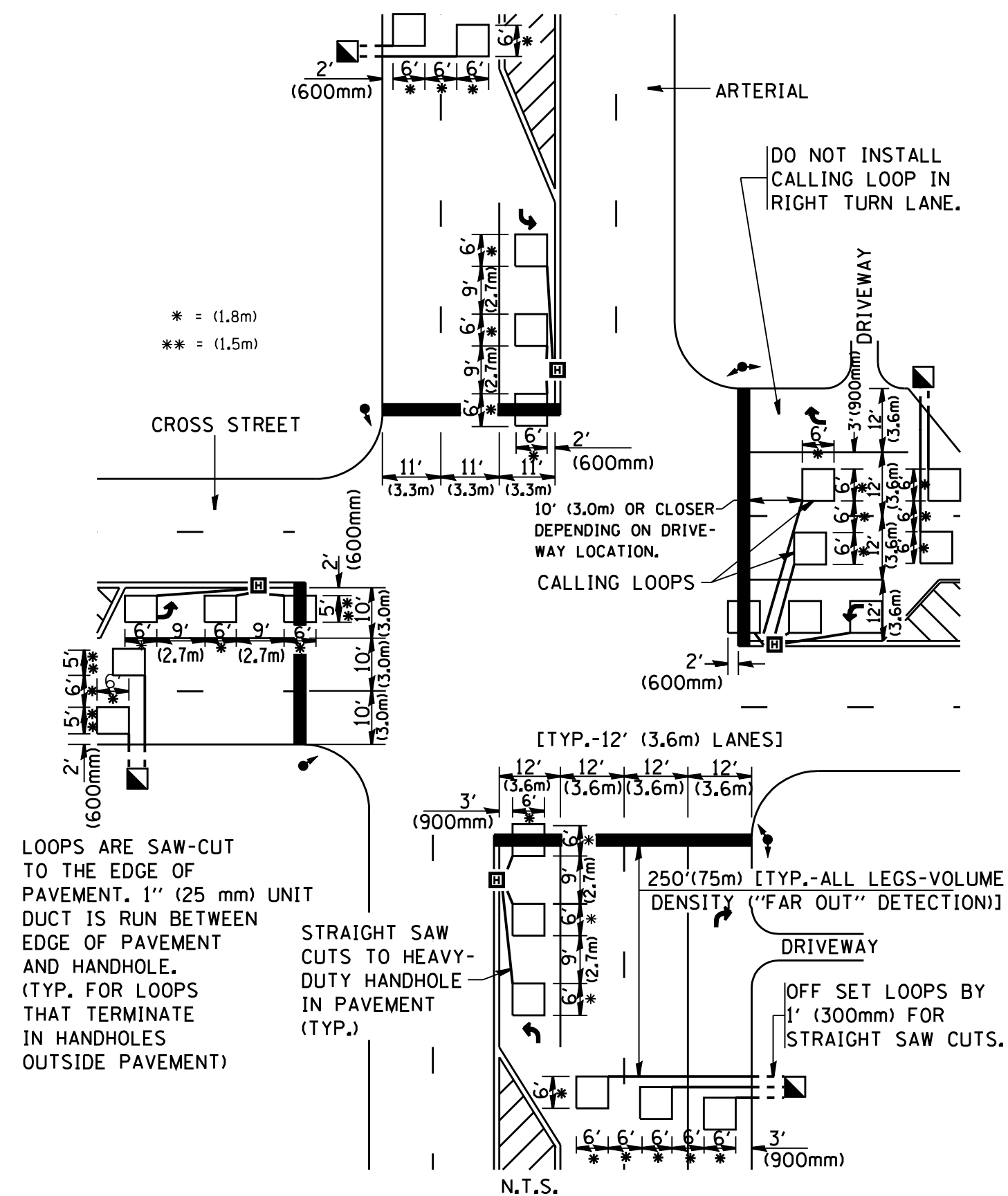
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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.

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

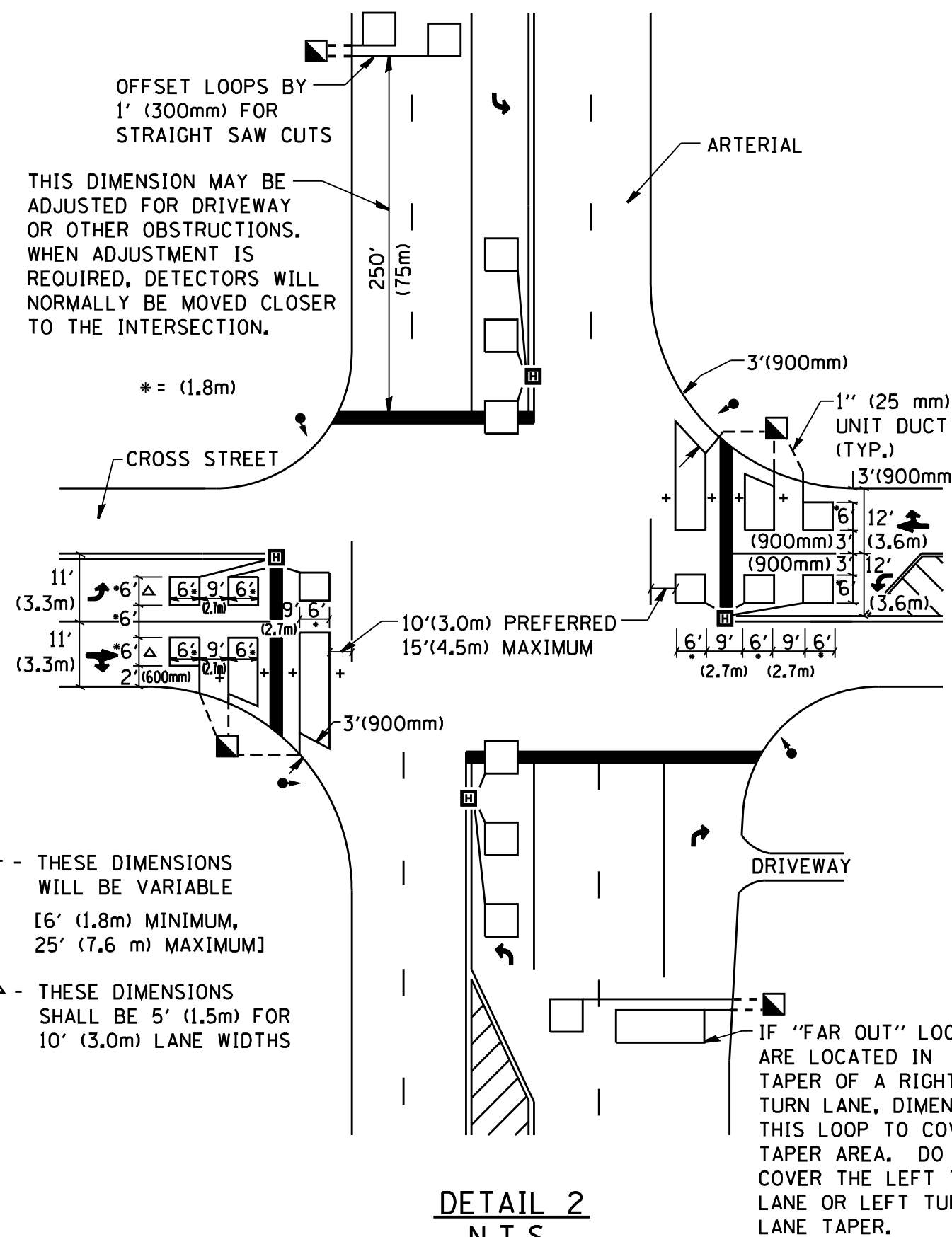


LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

DETAIL 1
N.T.S.

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



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

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

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

DETAIL 2
N.T.S.

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.

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		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED - R.K.F.	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

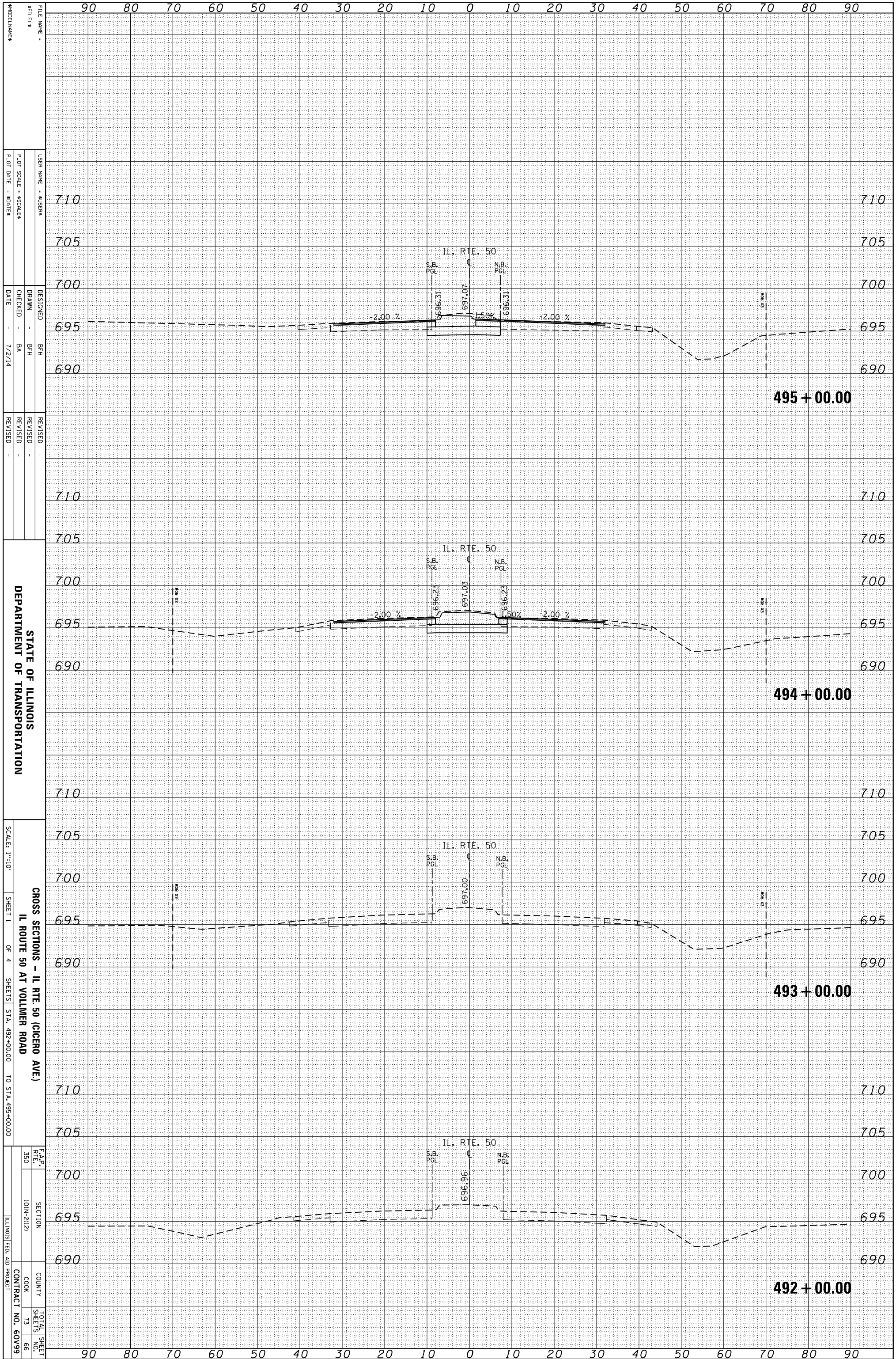
**DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	101N-2(12)	COOK	73	65
TS-07		CONTRACT NO. 60V99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

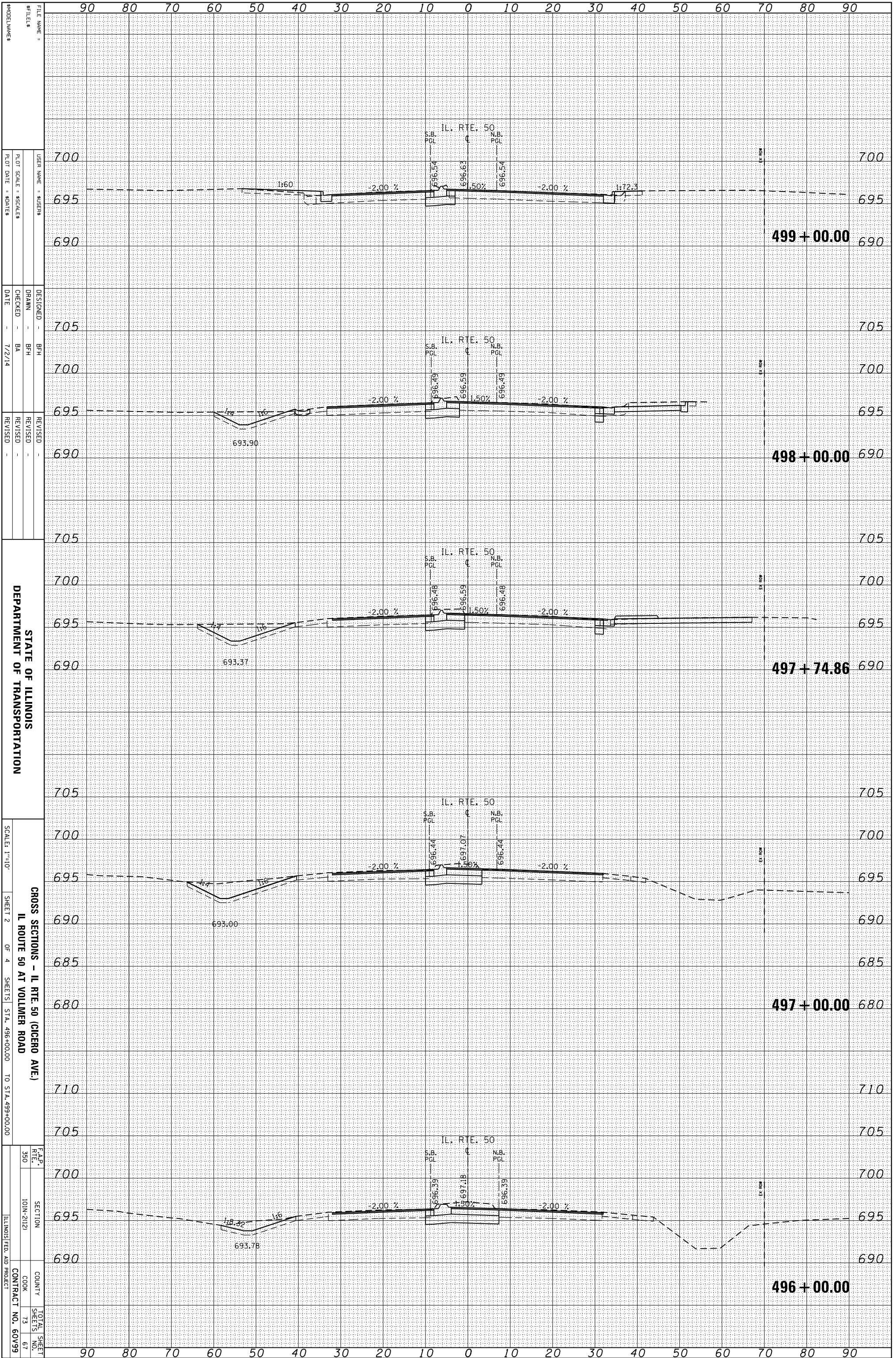
CROSS SECTIONS - IL RTE. 50 (CIGERO AVE.)
IL ROUTE 50 AT VOLLMER ROAD
SHEET 1 OF 4 SHEETS STA. 492+00.00 TO STA. 495+00.00

F.A.P. RTE. 350	SECTION 101N-2121	COUNTY COOK	TOTAL SHEETS 73
			SHEET NO. 66
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V99

FILE NAME =	DESIGNED -	REVISION
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	BFH	
PLLOT SCALE = \$SCALE\$	CHECKED -	REVISION
	BA	
PLLOT DATE = \$DATE\$	DATE -	REVISION
	7/2/14	

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		



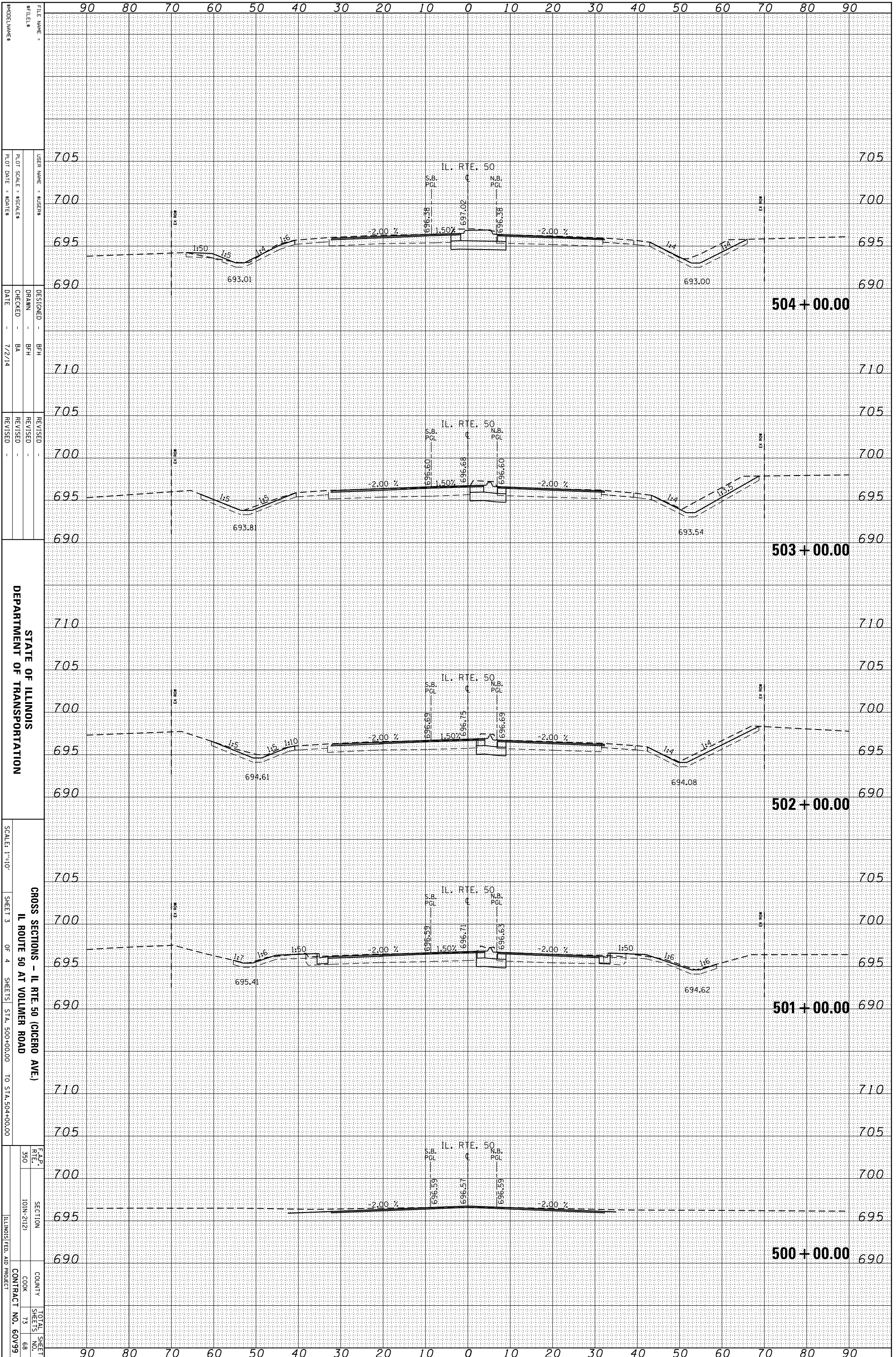
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL RTE. 50 (CIGERO AVE.)
IL ROUTE 50 AT VOLLMER ROAD
SHEET 2 OF 4 SHEETS STA. 496+00.00 TO STA. 499+00.00

F.A.P. RTE. 350	SECTION 10N-21E2	COUNTY COOK	TOTAL SHEET NO. 73
			SHEET NO. 67
		CONTRACT NO. 60V99	
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		



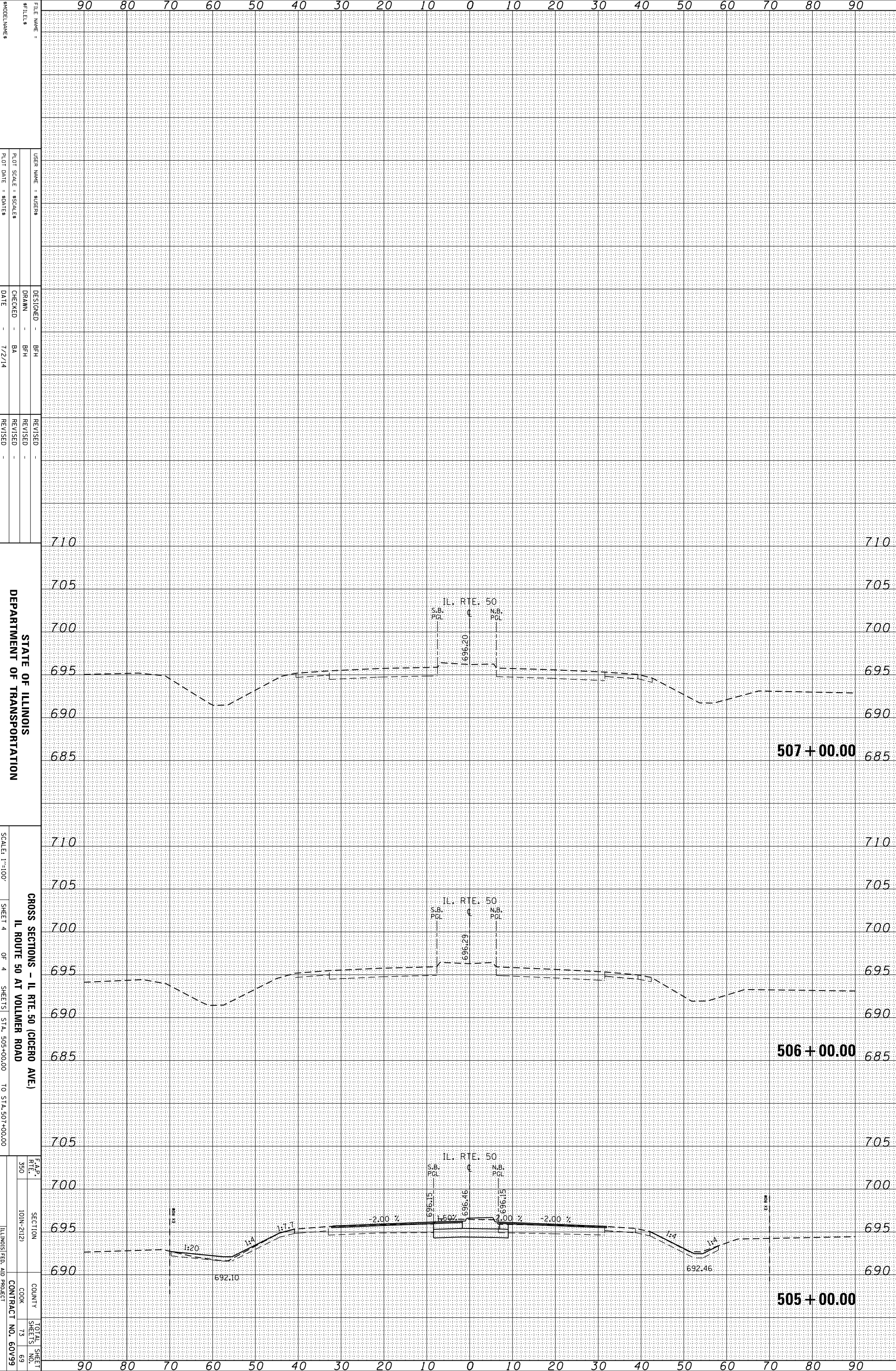
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL RTE. 50 (CIGERO AVE.)
IL ROUTE 50 AT VOLLMER ROAD
SHEET 3 OF 4 SHEETS STA. 500+00.00 TO STA. 504+00.00

F.A.P. RTE. 350	SECTION 101N-212J	COUNTY COOK	TOTAL SHEETS 73
			SHEET NO. 68
			CONTRACT NO. 60V99
			ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		



MODEL NUMBER: _____

FILE NAME: _____

DESIGNED BY: BFH

DATE: 7/2/14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL RTE. 50 (CICERO AVE.)
IL ROUTE 50 AT VOLKMER ROAD

SCALE: 1"=100'

SHEET 4 OF 4 SHEETS STA. 505+00.00 TO STA. 507+00.00

F.A.P. RTE. 350

SECTION 101N-2121

COUNTY COOK

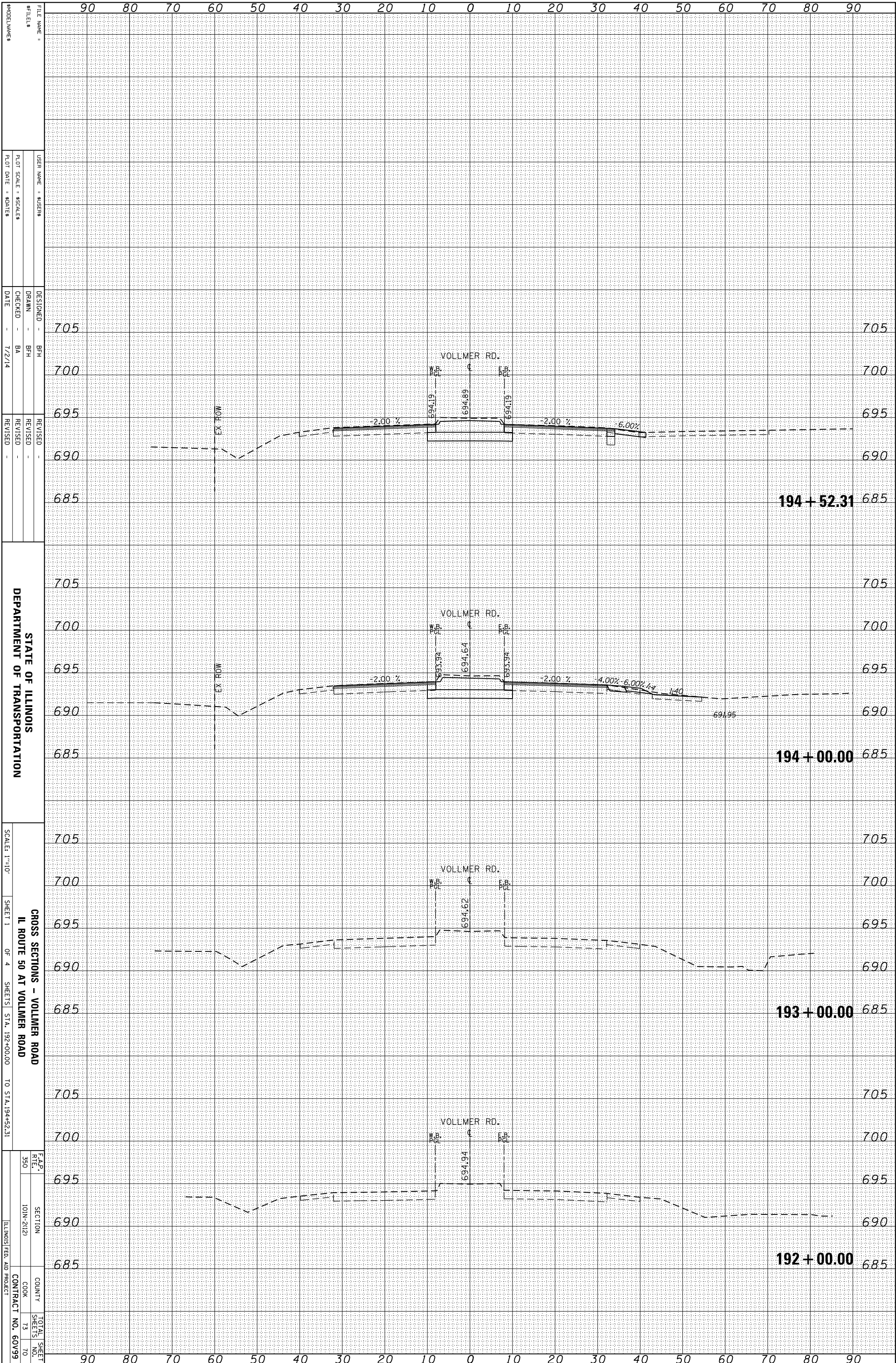
CONTRACT NO. 60V99

TOTAL SHEET NO. 73

CONTRACT NO. 60V99

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

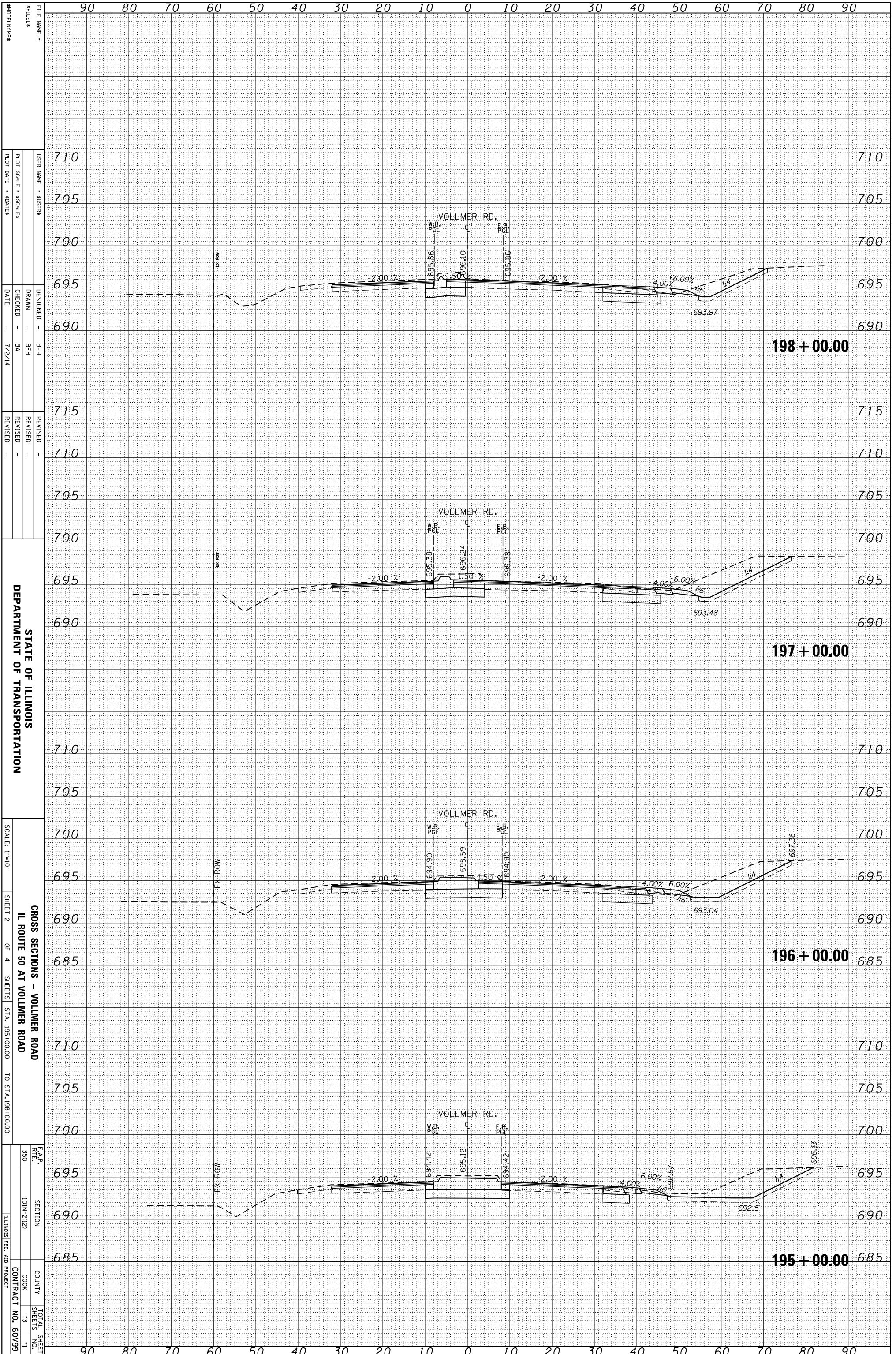
CROSS SECTIONS - VOLLMER ROAD
IL ROUTE 50 AT VOLLMER ROAD

SHEET 1 OF 4 SHEETS STA. 192+00.00 TO STA. 194+52.31

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
350	101N-2121	COOK	73
		CONTRACT NO.	60V99
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

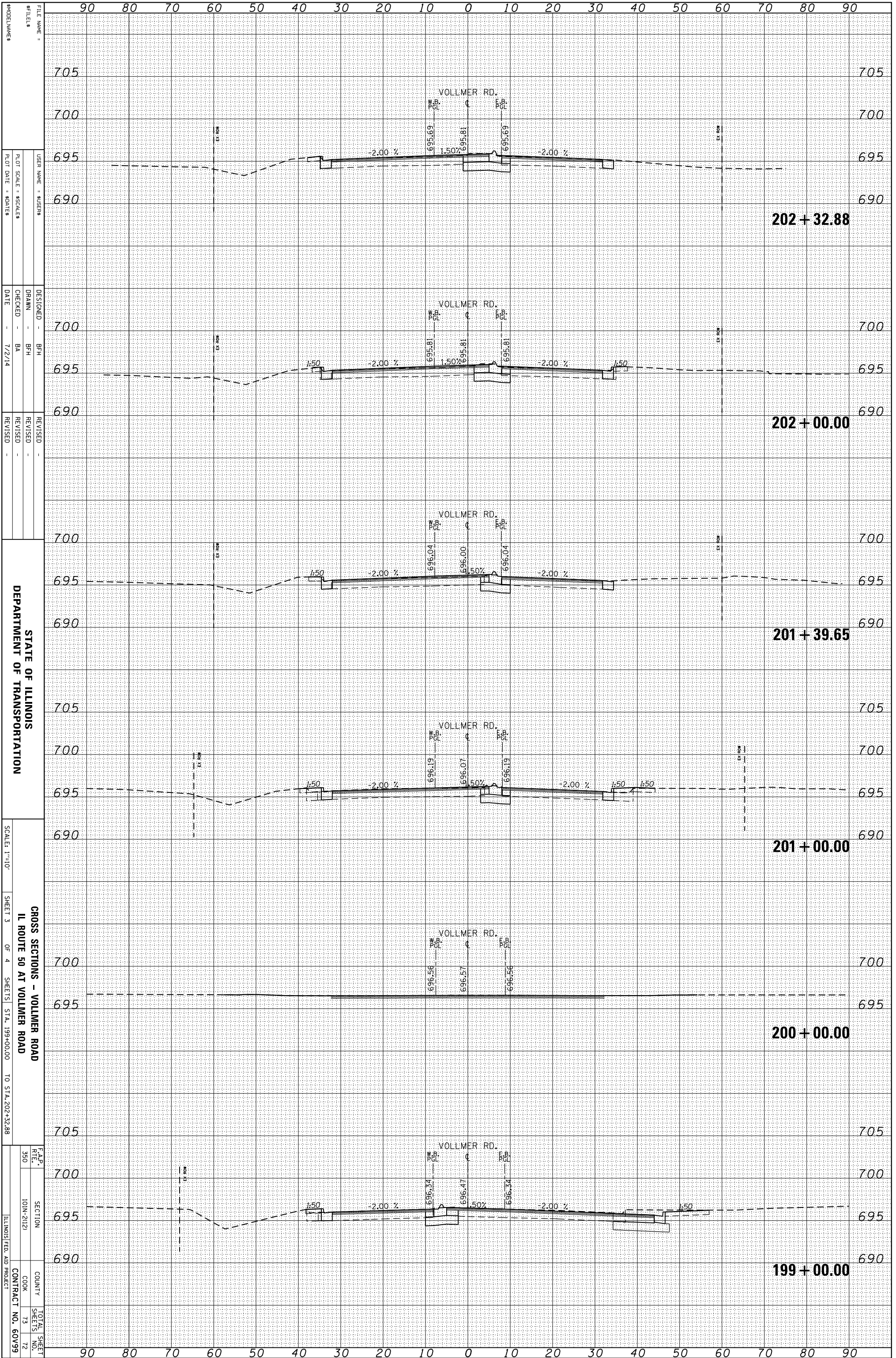
CROSS SECTIONS - VOLLMER ROAD
IL ROUTE 50 AT VOLLMER ROAD
SHEET 2 OF 4 SHEETS STA. 195+00.00 TO STA. 198+00.00

F.A.P. R.T.E. NO. 350	SECTION 101N-2121	COUNTY COOK	TOTAL SHEET NO. 73
			SHEET NO. 71
			CONTRACT NO. 60V99
			ILLINOIS FED. AID PROJECT

FILE NAME =	DESIGNED -	REVISION
SHEET NO. =	DRAWN -	REVISION
PLLOT SCALE =	CHECKED -	REVISION
PLLOT DATE =	DATE -	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - VOLLMER ROAD
IL ROUTE 50 AT VOLLMER ROAD
SHEET 3 OF 4 SHEETS STA. 199+00.00 TO STA. 202+32.88

F.A.P. RT.E. 350
SECTION 101N-2121
COUNTY COOK
CONTRACT NO. 60V99

FILE NAME: S:\USERS\BFH\PROJECTS\2011\20110111\20110111.DWG
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DRAWN BY: BFH
CHECKED BY: BA
DATE: 7/2/14

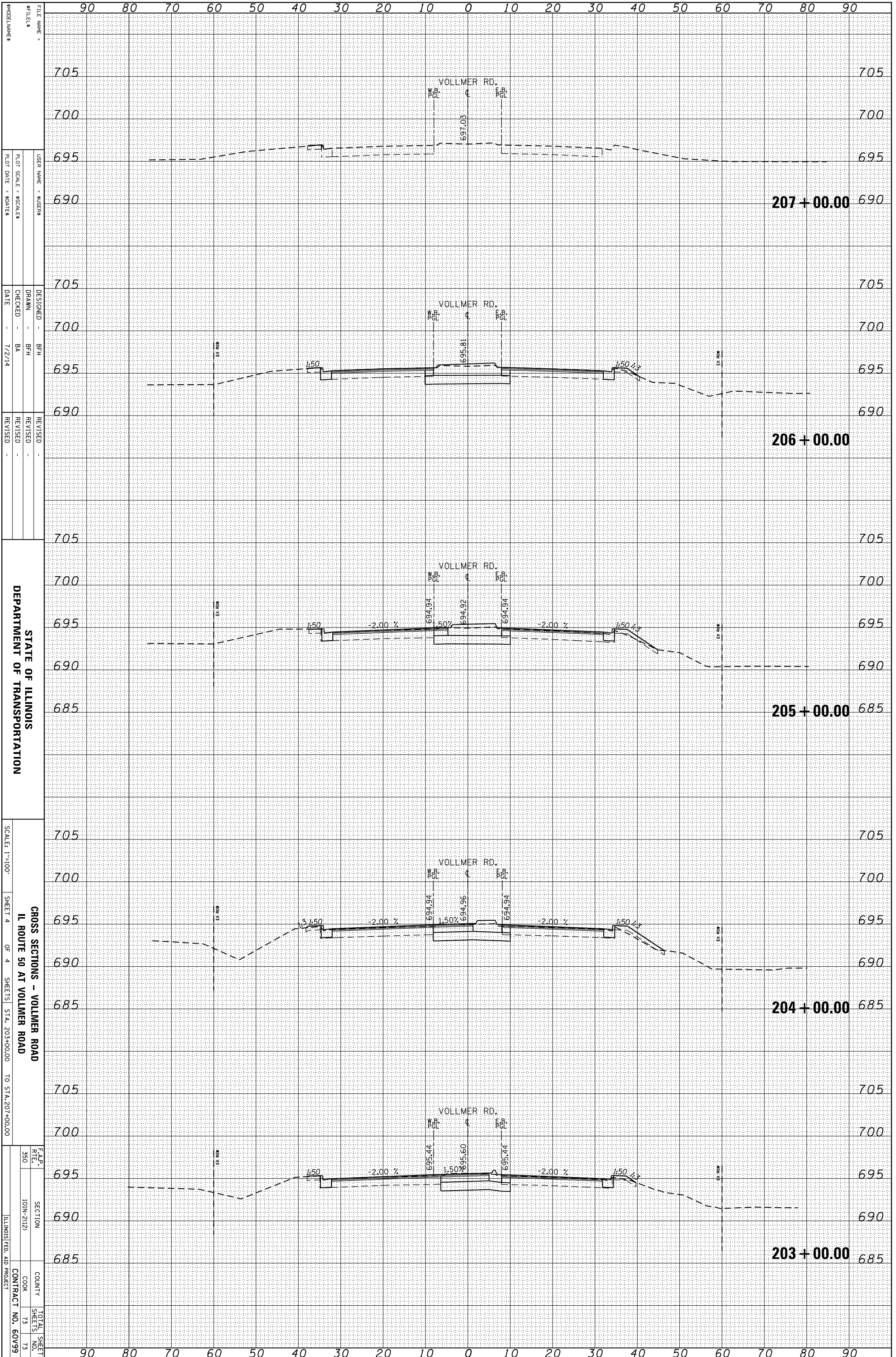
REVISIONS
REVISION NO. 1
REVISION DESCRIPTION: 1.50% GRADE ADJUSTMENT
DATE: 7/2/14

SCALE: 1"=10'
SHEET 3 OF 4 SHEETS STA. 199+00.00 TO STA. 202+32.88

TOTAL SHEET NO. 73
SHEET NO. 72

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		
NO. _____			

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		
NO. _____			



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - VOLLMER ROAD
IL ROUTE 50 AT VOLLMER ROAD

SCALE: 1"=100'
SHEET 4 OF 4 SHEETS STA. 203+00.00 TO STA. 207+00.00

F.A.P. R.T.E. NO. 350 SECTION 101N-21(2) COUNTY COOK CONTRACT NO. 60V99 TOTAL SHEET NO. 73