

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-RS&SW	KANE	64	1
		ILLINOIS	CONTRACT NO. 62K71	

* 64+2=66 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE CITY OF ELGIN AND WEST DUNDEE TOWNSHIP

TRAFFIC DATA:

2019

STA 17+00 TO STA 49+23

ADT = 18300

STA 49+23 STA 108+00

ADT = 14500

STA 108+00 - STA 236+00

ADT = 30600

STA 236+00 - STA 284+00

ADT 26600

STA 284+00 - STA 312+95

STA 17+00 TO STA 36+00

POSTED SPEED LIMIT = 40 MPH

STA 36+00 TO STA 143+00

POSTED SPEED LIMIT = 30 MPH

STA 143+00 TO STA 210+00

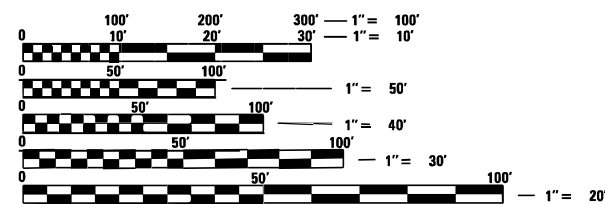
POSTED SPEED LIMIT = 35 MPH

STA 210+00 TO STA 284+00

POSTED SPEED LIMIT = 45 MPH

STA 284+00 TO STA 312+95

POSTED SPEED LIMIT = 35 MPH

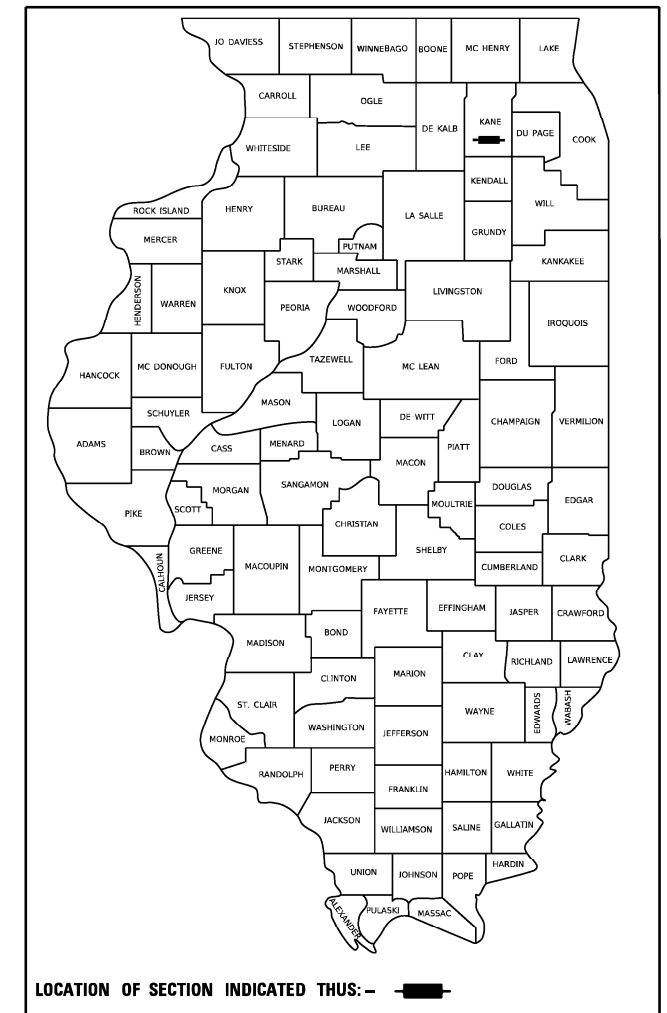
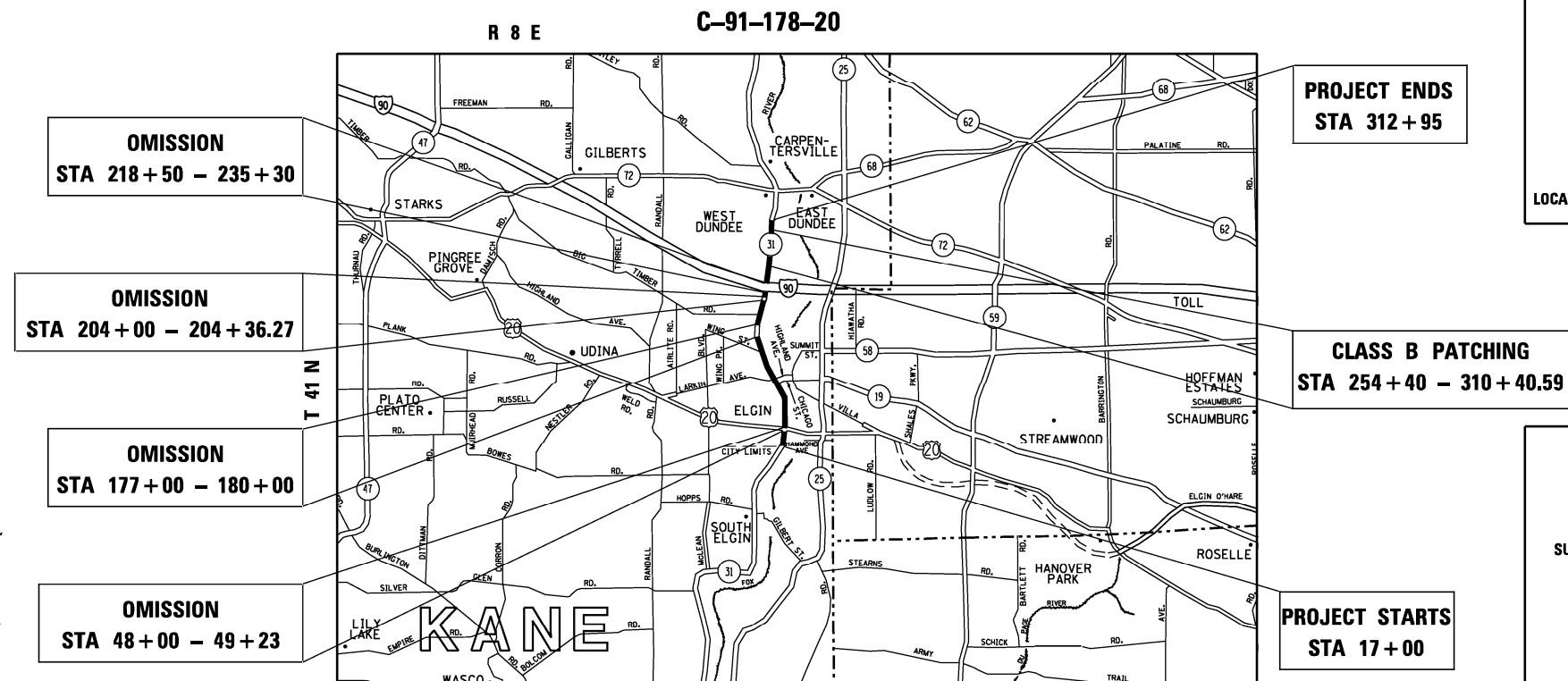


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROPOSED
HIGHWAY PLANS

F.A.U. ROUTE 3887 IL RTE 31
STROM DR TO WEST RD
(MENTAL HOSPITAL ENT)
SECTION 2019-198-RS&SW
STANDARD OVERLAY, ADA IMPROVMENTS
AND PATCHING
PROJECT STP-GV4T(423)
KANE COUNTY



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED MAY 8, 2020
Anthony J. C... REGIONAL ENGINEER
May 8, 2020
J. A. ... ENGINEER OF DESIGN AND ENVIRONMENT
May 8, 2020
J. ... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

GROSS LENGTH = 29356 FT. = 5.60 MILE
NET LENGTH = 26756 FT. = 5.00 MILE

CONTRACT NO. 62K71

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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20-25	ADA STANDARDS
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30-41	TRAFFIC SIGNAL PLANS
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52	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
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55	HMA TAPER AT EDGE OF PCC PAVEMENT (BD-33)
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62	TRAFFIC CONTROL DETAILS FOR FREE WAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
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64	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)
64A-64B	ILLINOIS TOLLWAY CONSTRUCTION SIGNS (STANDARD E1)
64C-64E	ILLINOIS TOLLWAY LANE CLOSURE DETAILS (STANDARD E2)
64F	ILLINOIS TOLLWAY SHOULDER CLOSURE DETAILS (STANDARD E3)
64G	ILLINOIS TOLLWAY TEMPORARY GORE DETAILS (STANDARD E5)

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
442101-09	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
604001-05	FRAMES AND LIDS TYPE 1
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701101-05	OFF -RD OPERATION, MULTILANE, 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701421-08	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING SPEEDS >= 45MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPER. FOR SPEED>= 45MPH
701427-05	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPER. FOR SPEED < 40MPH
701501-06	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE,2L,2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF ADDISON, BLOOMINGDALE AND ROSEDALE.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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

TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT MR. DON CHIARUGI, ARTERIAL TRAFFIC FIELD ENGINEER, AT don.chiarugi@illinois.gov

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

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.

ALL FINAL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT 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.

FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION

CONTACT ROADSIDE DEVELOPMENT UNIT AT 847.705.4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK FOR LAYOUT.

ANY DETECTOR LOOPS DAMAGED BY PCC PATCHING OR PCC SURFACE REMOVAL VARIABLE DEPTH SHALL BE REPLACED IN KING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO QUANTIFY LOOP REPLACEMENTS NEEDED AND PROVIDE THE RESIDENT ENGINEER THIS INFO PRIOR TO REMOVAL.

THE CONTRACTOR MUST APPLY FOR A RIGHT OF ENTRY PERMIT FROM THE UNION PACIFIC RAILROAD AND REFERENCE THE UNION PACIFIC FOLDER NO.: 3202-22, WHEN FILLING OUT THE PERMIT APPLICATION.

HIGHWAY STANDARD 701422-10 SHALL BE USED FOR ALL LANE CLOSURES US 20.

FILE NAME =	USER NAME = khens	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARS AND GENERAL NOTES IL RTE 31 (WEST RD TO STROM DR)	F. AU	SECTION	COUNTY	TOTAL	SHEET	
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\0136820\Drawings\Design\0136820-sht-gennote.dgn	DRWN	REVISED -	REVISED -			3 87	2 0 9 1 B- RS & W	KANE	1	1	
Default	PLOT SCALE = 99.9971 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 62K71					
	PLOT DATE = 5/4/2020	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005	0021	0047	0005	0043	TOTAL QUANTITIES	UNIT	TOTAL QUANTITIES	0005	0021	0047	0005	0043			
				URBAN	TRAFFIC SIGNALS	BRIDGE REPAIR	NON-PARTICIPATING WORK (100% STATE) URBAN	STORM SEWER 100% CITY OF ELGIN				URBAN	TRAFFIC SIGNALS	BRIDGE REPAIR	NON-PARTICIPATING WORK (100% STATE) URBAN	STORM SEWER 100% CITY OF ELGIN			
20200100	EARTH EXCAVATION	CU YD	122	122								11912							
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNITS	100	100															
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	490	490															
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNITS	85	85															
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	5	5															
20101300	TREE PRUNNING (1 TO 10 INCH DIAMETER)	EACH	8	8															
20101350	TREE PRUNNING (OVER 10 INCH DIAMETER)	EACH	32	32															
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	5	5															
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	5	5															
25003210	INTERSEEDING, CLASS 2A	ACRE	4.2	4.2															
25200110	SODDING, SALT TOLERANT	SO YD	100	100															
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	216	216															
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SO YD	216	216															
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	83111	83111															
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	183	183															
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	1761	1761															
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	5014	5014															
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	11912	11912															
42001300	PROTECTIVE COAT	SO YD	980	980															
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	700	700															
42400800	DETECTABLE WARNINGS	SO FT	600	600															
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	121366	121366															
44000600	SIDEWALK REMOVAL	SO FT	700	700															
44003100	MEDIAN REMOVAL	SO FT	4110	4110															
44200050	WELDED WIRE REINFORCEMENT	SO YD	20	20															
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SO YD	110	110															
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SO YD	200	200															
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SO YD	120	120															
44201299	DOWEL BARS 1 1/2"	EACH	400	400															
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SO YD	516	516															
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SO YD	96	96															

REV-SEP

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005	0021	0047	0005	0043	TOTAL QUANTITIES	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005	0021	0047	0005	0043	
				URBAN	URBAN	URBAN	NON-PARTICIPATING WORK (100% STATE) URBAN	STORM SEWER 100% CITY OF ELGIN						URBAN	URBAN	URBAN	NON-PARTICIPATING WORK (100% STATE) URBAN	STORM SEWER 100% CITY OF ELGIN	
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SO YD	167	167						* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1					
44213200	SAW CUTS	FOOT	1200	1200						* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1					
44213204	TIE BARS 3/4"	EACH	30	30						* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	24	24					
45100100	CRACK ROUTING (PAVEMENT)	FOOT	9046	9046						67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	18					
45100200	CRACK FILLING	POUND	2380	2380						67100100	MOBILIZATION	L SUM	1	1					
50157300	PROTECTIVE SHIELD	SO YD	55			55				70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1						1
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	6.5					6.5		70300100	SHORT TERM PAVEMENT MARKING	FOOT	34269	34269					
60250200	CATCH BASINS TO BE ADJUSTED	EACH	41	41						70106800	CHANGEABLE MESSAGE SIGN	CAL DAYS	30			30			
60221100	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1					1		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	11423	11423					
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	3	3						70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1			1			
60255500	MANHOLES TO BE ADJUSTED	EACH	10	10						70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	821	821					
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2						70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	72997	72997					
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	10	10						70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	11028	11028					
60500105	FILLING MANHOLES	EACH	1					1		70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	4677	4677					
60618740	CONCRETE MEDIAN, TYPE M-2.12	SO FT	1200	1200						70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2640	2640					
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SO FT	970	970						70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1023	1023					
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	122	122						70300510	PAVEMENT MARKING TAPE, TYPE III, LETTER AND SYMBOLS	FOOT	934			943			
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	7	7						70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	600			600			REV-SEP
										70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	1134			1134			* SPECIALTY ITEM

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 URBAN	0021 TRAFFIC SIGNALS URBAN	0047 BRIDGE REPAIR URBAN	0005 NON-PARTICIPATING WORK (100% STATE) URBAN			CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 URBAN	0021 TRAFFIC SIGNALS URBAN	0047 BRIDGE REPAIR URBAN	0005 NON-PARTICIPATING WORK (100% STATE) URBAN		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2244			2244				* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	18645	18645					
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2244			2244				* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	2757	2757					
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	374			374				* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	158	158					
70600330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2244			2244				* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	20	20					
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	821	821						* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2551	2551					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	124598	124598						* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	8			8			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	11028	11028						78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1276	1276					
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	4677	4677						* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	56			56			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2640	2640						* 81400200	HEAVY-DUTY HANDHOLE	EACH	4			4			
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1023	1023						* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			2			
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	565	565						* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	877			877			
										* 87900200	DRILL EXISTING HANDHOLE	EACH	1			1			REV-SEP

* SPECIALTY ITEM

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 URBAN	0021 TRAFFIC SIGNALS URBAN	0047 BRIDGE REPAIR URBAN	0005 NON-PARTICIPATING WORK (100% STATE) URBAN	0043 STORM SEWER 100% CITY OF ELGIN	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 URBAN	0021 TRAFFIC SIGNALS URBAN	0047 BRIDGE REPAIR URBAN	0005 NON-PARTICIPATING WORK (100% STATE) URBAN	0043 STORM SEWER 100% CITY OF ELGIN		
* 88600100	DETECTOR LOOP, TYPE I	FOOT	862		862				Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	2.8			2.8				
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	4760	4760					Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	4.3			4.3				
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	877		877				Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	50				50			
* 89502380	REMOVE EXISTING HANDHOLE	EACH	4		4				Z0030850	TEMORARY INFORMATION SIGNING	SQ FT	208	208						
X0320015	MAINTENANCE OF TRAFFIC (ILLINOIS TOLLWAY)	L SUM	1	1					Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	70570	70570						
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1					Z0064800	SELECTIVE CLEARING	UNITS	12	12						
X0323160	VIDEO INSPECTION OF STORM SEWER	FOOT	200					200	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2		2					
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	167		167				Z0076600	TRAINEES	HOOR	500	500						
X0327979	PAVEMENT MARKING REMOVAL (GRINDING)	SQ FT	870			870			Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOOR	500	500						
* X0900027	PROTECTIVE SHIELD (PERMANENT) REMOVAL	SO FT	675			675													
X0327980	PAVEMENT MARKING REMOVAL (WATER BLASTING)	SQ FT	150			150													
* X2700003	GROOVING FOR RECESSED PAVEMENT MARKING	FOOT	4042	4042															
	8"																		
X2010350	TREE REMOVAL, ACRES (SPECIAL)	ACRES	4.182	4.182															
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	150				150												
X5538000	STORM SEWERS TO BE CLEANED 18"	FOOT	100					100											
X6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	15	15															
	(SPECIAL)																		
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1															
X7010216	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1															
	(SPECIAL)																		
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	767			767													
* X8100105	CONDUIT SPLICE	EACH	2		2														
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SO YD	17.7			17.7													
Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	7939	7939															
	REMOVAL AND REPLACEMENT																		

Ø 0042
REV+SEP

* SPECIALTY ITEM

LANDSCAPING

TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
STATION	QUANTITY
AS DIRECTED	100.00 UNITS

TREE REMOVAL (OVER 15 UNITS DIAMETER)	
STATION	QUANTITY
AS DIRECTED	85.00 UNITS

TREE REMOVAL (1 TO 10 INCH DIAMETER)	
STATION	QUANTITY
AS DIRECTED	8.0 EACH

INTERSEEDING, CLASS 2A	
STATION	QUANTITY
AREAS OF TREE REMOVAL ACRE SPECIAL	4.182 ACRE

TREE PRUNNING (OVER 10 INCH DIAMETER)	
STATION	QUANTITY
AS DIRECTED	32.0 EACH

INTERSEEDING, CLASS 2A	
STATION	QUANTITY
27+30 TO 35+60 - OFFSET TO 55 FT	20,750 SQ FT
95+50 TO 150+00 RT - OFFSET TO 33 FT	1,800 SQ FT
96+80 TO 100+00 RT - OFFSET TO 38 FT	6,300 SQ FT
180+00 TO 185+50 LT - OFFSET TO 60 FT	16,500 SQ FT
179+70 TO 183+20 RT - OFFSET TO ROW	10,000 SQ FT
187+60 TO 190+60 RT - OFFSET TO ROW	14,000 SQ FT
191+20 TO 194+50 RT - OFFSET TO ROW	8,250 SQ FT
193+50 TO 205+40 LT - OFFSET TO ROW	23,800 SQ FT
196+10 TO 199+30 RT - OFFSET TO ROW	6,400 SQ FT
200+00 TO 205+40 RT - OFFSET TO 65 FT	10,800 SQ FT
207+30 TO 212+50 LT	10,400 SQ FT
235+20 TO 237+20 LT	5,000 SQ FT
271+00 TO 286 RT - OFFSET 25 FT BEHIND CURB	37,500 SQ FT
270+20 TO 274+70 LT - OFFSET TO ROW	9,000 SQ FT
274+70 TO 283+00 LT - OFFSET TO ROW	16,600 SQ FT
TOTAL SQ FT	182,160 SQ FT
TOTAL ACRE	4.182 ACRE

SELECTIVE CLEARING	
STATION	QUANTITY
AS DIRECTED	12.0 UNITS

*NOTE: CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT 847-705-4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK FOR LAYOUT.

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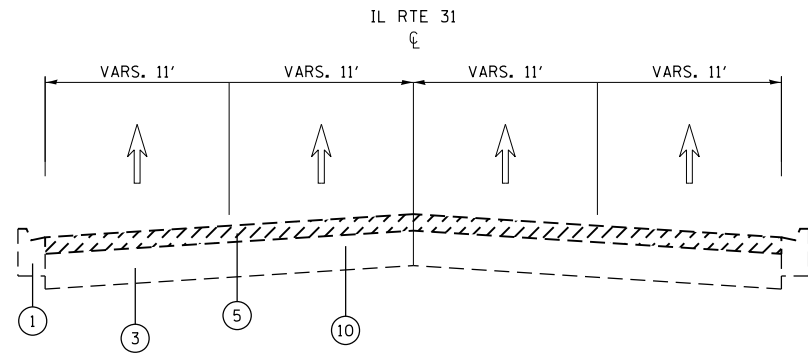
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL RTE 31 (WEST RD TO STROM DR) SCHEDULE OF QUANTITIES			
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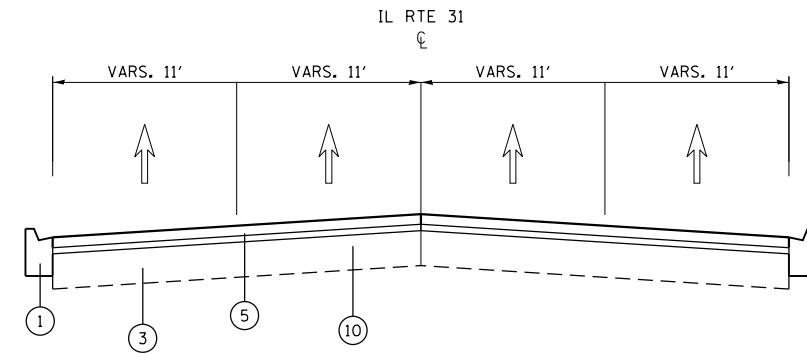
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3887	2019-198-R5&SW	KANE	64	6A
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				

LEGEND

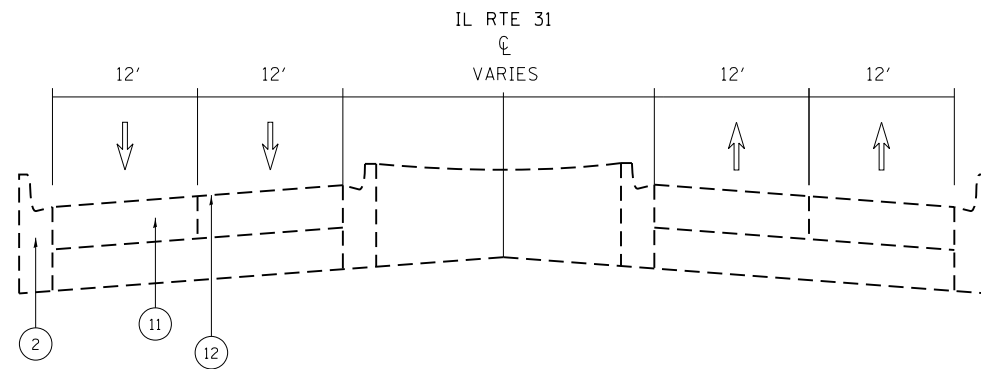
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|---|---|
| 1. EXISTING COMBINATION CONCRETE CURB AND GUTTER B-6.12 | 8. PROPOSED COMBINATION CONCRETE CURB AND GUTTER B-6.12 |
| 2. EXISTING COMBINATION CONCRETE CURB AND GUTTER B-6.24 | 9. PROPOSED SIDEWALK |
| 3. EXISTING BIT. BASE COURSE | 10. EXISTING BIT. BASE COURSE |
| 4. EXISTING SIDEWALK | 11. EXISTING PORTLAND CEMENT CONCRETE PAVEMENT 10 1/4" |
| 5. PROPOSED HMA SURFACE REMOVAL, 2 1/4" | 12. PROPOSED CLASS B PATCHES, 11" |
| 6. PROPOSED POLY HMA ASPHALT BINDER COURSE
IL-4.75, N50, 3/4" | |
| 7. PROPOSED POLY HMA SURFACE COURSE, STONE MATRIX
ASPHALT, MIX F, 9.5, N80, 1 3/4" | |



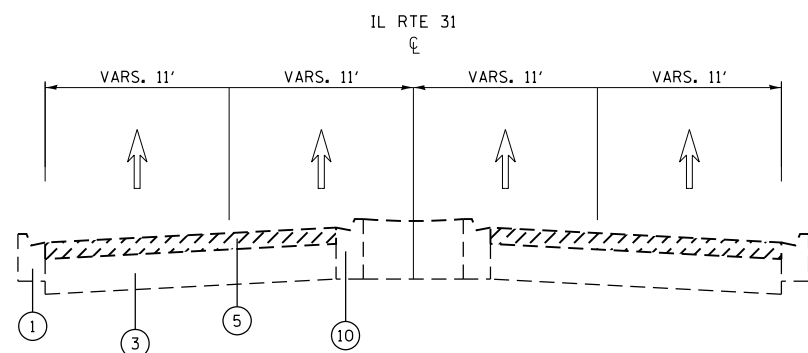
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STA 103+00 - STA 184+50



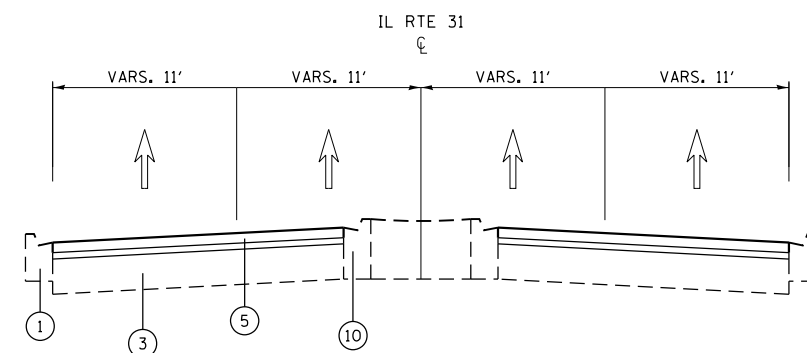
EXISTING TYPICAL SECTION
STA 17+00 - STA 104+00



EXISTING TYPICAL SECTION
STA. 254+40 TO STA. 310+40.59



EXISTING TYPICAL SECTION
STA 184+50 - STA 254+40
STA 254+40 - STA 310+40.59



EXISTING TYPICAL SECTION
STA 17+00 - STA 104+00

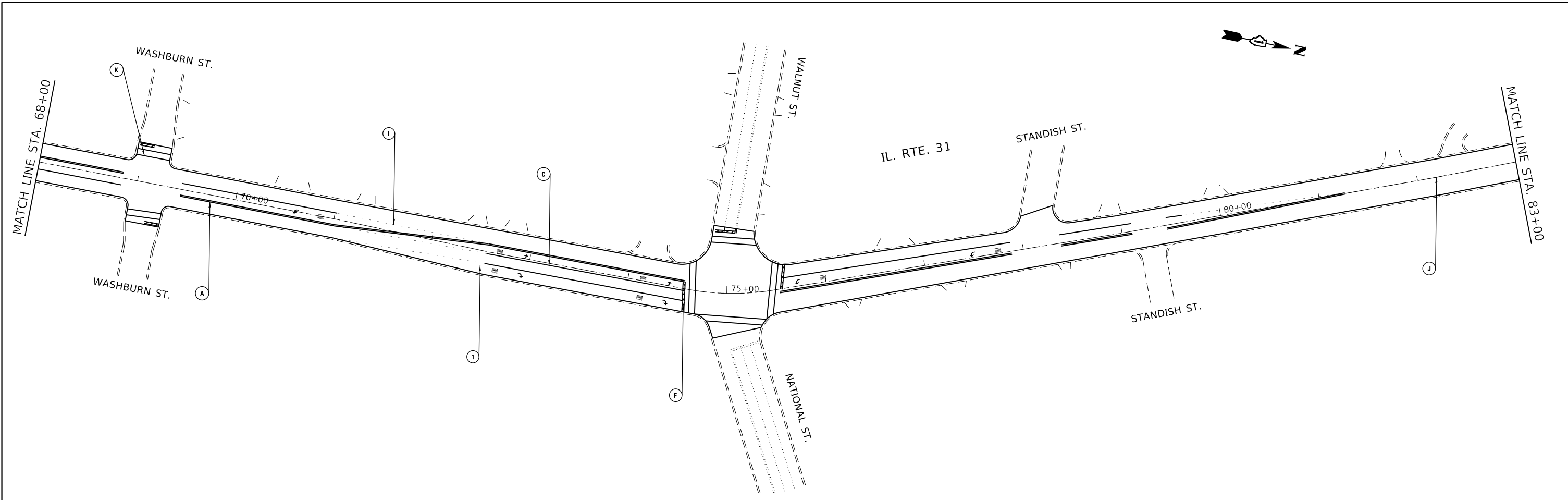
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PLOT DATE = 4/3/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL SECTION IL RTE 31 (WEST RD TO STROM DR)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	8
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				

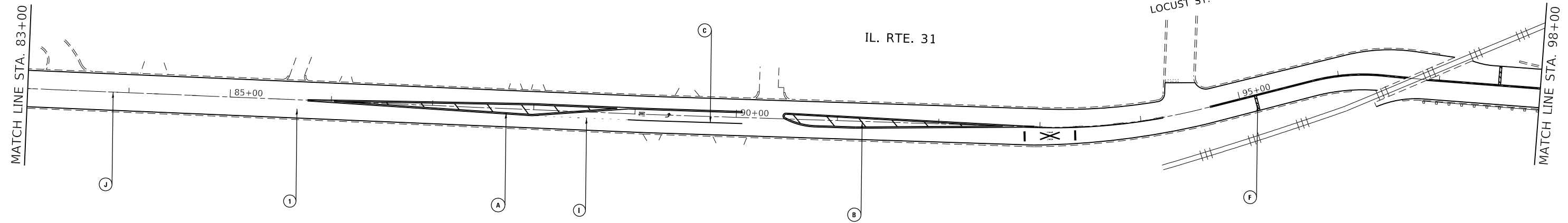


PAVEMENT MARKING LEGEND

• = THERMOPLASTIC PAVEMENT MARKING -

•• = MODIFIED URETHANE PAVEMENT MARKING -

- | | | | |
|---|--|---|---|
| (A) • DOUBLE LINES 4", YELLOW (TYP.) | (H) • LINE 4", YELLOW (TYP.) | (O) •• TURN LANE 6", WHITE (TYP.) | (1) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4" |
| (B) • MARKING-LINE 12", YELLOW (TYP.) | (I) • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.) | (P) •• LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.) | PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4" |
| (C) • TURN LANE MARKING-LINE 6", WHITE (TYP.) | (J) • LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.) | (Q) •• LINE 4", YELLOW (TYP.) | PROP. HMA SURFACE REMOVAL 2 1/2" |
| (D) • LINE 8", WHITE (TYP.) | (K) • LINE PEDESTRIAN CROSSWALK 6", WHITE (TYP.) | (R) •• TYPE B 7" SKIP, WHITE (TYP.) | PROP. CLASS D PATCHES, 14" |
| (E) • LINE 12", WHITE (TYP.) | (L) • LINE PAVEMENT SCHOOL CROSSWALK 12", WHITE (TYP.) | (S) •• STOP MARKING-LINE 24", WHITE (TYP.) | (2) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4" |
| (F) • STOP LINE 24", WHITE (TYP.) | (M) • LINE 4", WHITE - PARKING LANE (TYP.) | (T) PROP. GROOVING FOR RECESSED PAVEMENT MARKING 5" | PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4" |
| (G) • LINE, 4", 10' DASH-30' SKIP, WHITE (TYP.) | (N) • LINE, 4", 10' DASH-30' SKIP, WHITE LANE LINES (TYP.) | (U) •• LINE 8" WHITE (TYP.) | PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 10" (HMA BINDER IL-19) |
| | | (V) •• LINE 12" WHITE (TYP.) | (3) PROP. CLASS B PATCHES, 10" (LOCATION TO BE DETERMINED BY ENGINEER) |



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 DATE: 4/3/2020

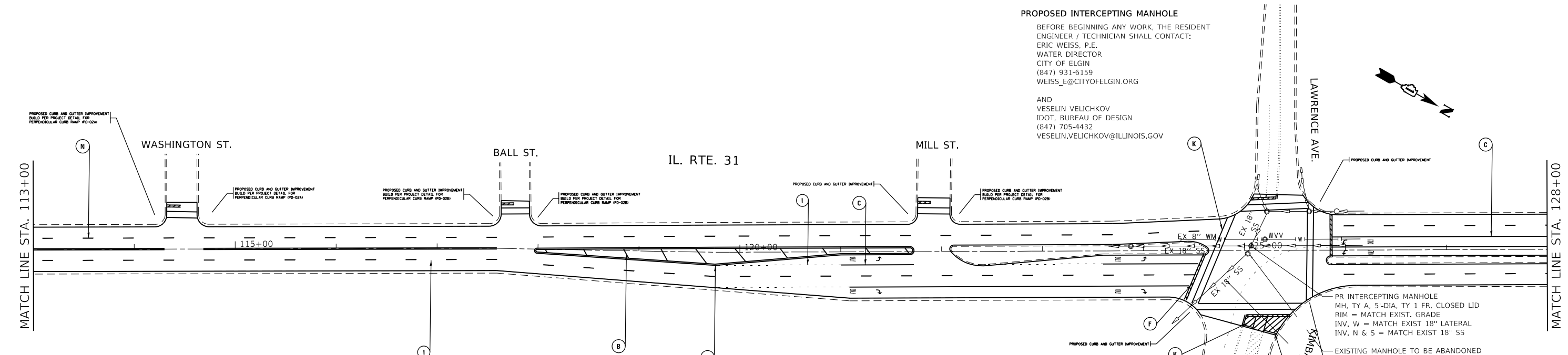
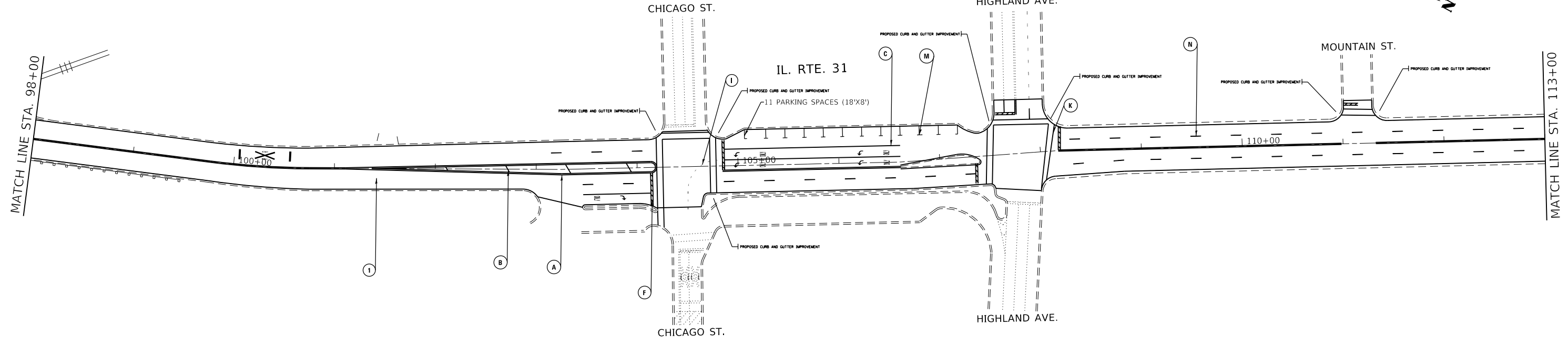
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PLOT DATE = 4/3/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
IL. RTE. 31 (STROM DR. - WEST RD. (MENTAL HOSPITAL ENTRANCE))**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	11
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				



PROPOSED INTERCEPTING MANHOLE
 BEFORE BEGINNING ANY WORK, THE RESIDENT ENGINEER / TECHNICIAN SHALL CONTACT:
 ERIC WEISS, P.E.
 WATER DIRECTOR
 CITY OF ELGIN
 (847) 931-6159
 WEISS_E@CITYOFELGIN.ORG
 AND
 VESELIN VELICHKOV
 IDOT, BUREAU OF DESIGN
 (847) 705-4432
 VESELIN.VELICHKOV@ILLINOIS.GOV

PAVEMENT MARKING LEGEND

- = THERMOPLASTIC PAVEMENT MARKING -
- = MODIFIED URETHANE PAVEMENT MARKING -
- (A) • DOUBLE LINES 4", YELLOW (TYP.)
- (B) • MARKING-LINE 12", YELLOW (TYP.)
- (C) • TURN LANE MARKING-LINE 6", WHITE (TYP.)
- (D) • LINE 8", WHITE (TYP.)
- (E) • LINE 12", WHITE (TYP.)
- (F) • STOP LINE 24", WHITE (TYP.)
- (G) • LINE, 4", 10' DASH-30' SKIP, WHITE (TYP.)
- (H) • LINE 4", YELLOW (TYP.)
- (I) • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
- (J) • LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.)
- (K) • LINE PEDESTRIAN CROSSWALK 6", WHITE (TYP.)
- (L) • LINE PAVEMENT SCHOOL CROSSWALK 12", WHITE (TYP.)
- (M) • LINE 4", WHITE - PARKING LANE (TYP.)
- (N) • LINE, 4", 10' DASH-30' SKIP, WHITE LANE LINES (TYP.)
- (O) •• TURN LANE 6", WHITE (TYP.)
- (P) •• LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
- (Q) •• LINE 4", YELLOW (TYP.)
- (R) •• TYPE B 7" SKIP, WHITE (TYP.)
- (S) •• STOP MARKING-LINE 24", WHITE (TYP.)
- (T) PROP. GROOVING FOR RECESSED PAVEMENT MARKING 5"
- (U) •• LINE 8" WHITE (TYP.)
- (V) •• LINE 12" WHITE (TYP.)
- (1) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4"
 PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4"
 PROP. HMA SURFACE REMOVAL 2 1/2"
 PROP. CLASS D PATCHES, 14"
- (2) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4"
 PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4"
 PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 10" (HMA BINDER IL-19)
- (3) PROP. CLASS B PATCHES, 10" (LOCATION TO BE DETERMINED BY ENGINEER)

PR INTERCEPTING MANHOLE
 MH, TY A, 5'-DIA, TY 1 FR, CLOSED LID
 RIM = MATCH EXIST. GRADE
 INV. W = MATCH EXIST 18" LATERAL
 INV. N & S = MATCH EXIST 18" SS
 EXISTING MANHOLE TO BE ABANDONED
 PAID AS: FILLING MANHOLE
 EXISTING SS TO BE FILLED
 AND ABANDONED
 PAID AS: CONTROLLED
 LOW-STRENGTH MATERIAL

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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/5/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN	
IL RTE. 31 (STROM DR. - WEST RD. (MENTAL HOSPITAL ENTRANCE))	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

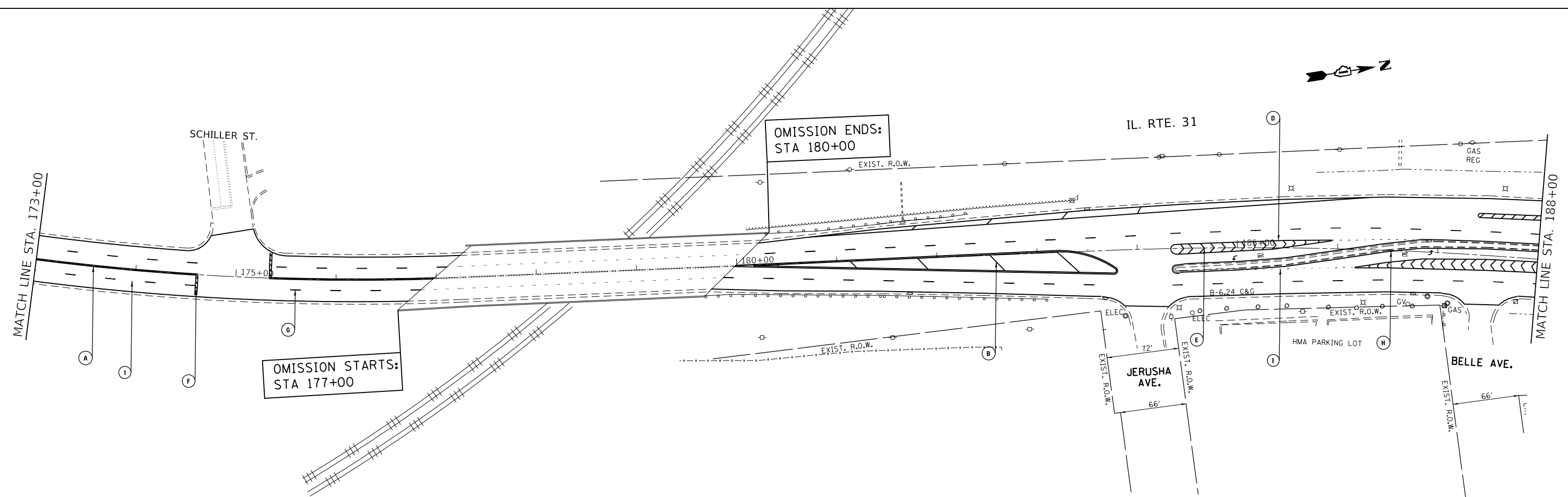
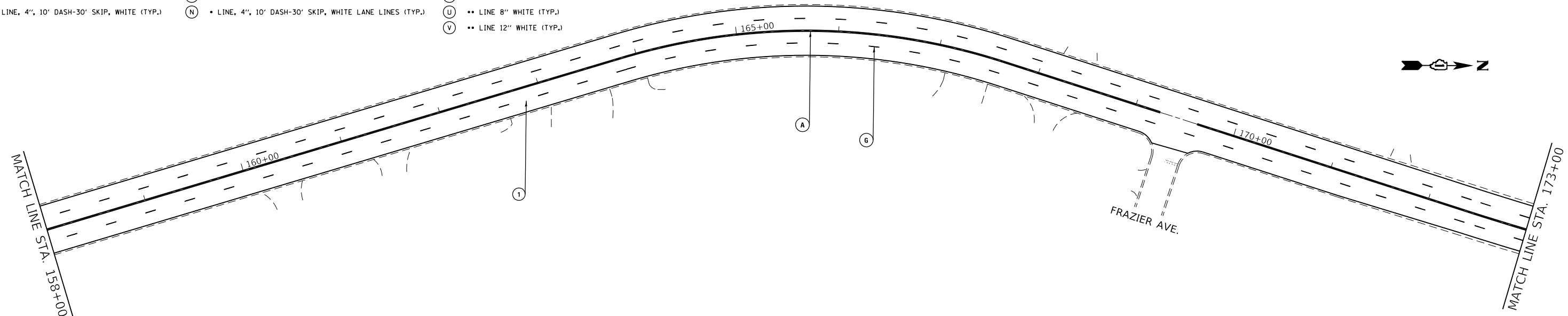
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CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING LEGEND

- (A) • DOUBLE LINES 4", YELLOW (TYP.)
- (B) • MARKING-LINE 12", YELLOW (TYP.)
- (C) • TURN LANE MARKING-LINE 6", WHITE (TYP.)
- (D) • LINE 8", WHITE (TYP.)
- (E) • LINE 12", WHITE (TYP.)
- (F) • STOP LINE 24", WHITE (TYP.)
- (G) • LINE, 4", 10' DASH-30' SKIP, WHITE (TYP.)
- (H) • LINE 4", YELLOW (TYP.)
- (I) • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
- (J) • LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.)
- (K) • LINE PEDESTRIAN CROSSWALK 6", WHITE (TYP.)
- (L) • LINE PAVEMENT SCHOOL CROSSWALK 12", WHITE (TYP.)
- (M) • LINE 4", WHITE - PARKING LANE (TYP.)
- (N) • LINE, 4", 10' DASH-30' SKIP, WHITE LANE LINES (TYP.)
- (O) • • TURN LANE 6", WHITE (TYP.)
- (P) • • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
- (Q) • • LINE 4", YELLOW (TYP.)
- (R) • • TYPE B 7" SKIP, WHITE (TYP.)
- (S) • • STOP MARKING-LINE 24", WHITE (TYP.)
- (T) PROP. GROOVING FOR RECESSED PAVEMENT MARKING 5"
- (U) • • LINE 8" WHITE (TYP.)
- (V) • • LINE 12" WHITE (TYP.)

IL. RTE. 31

- (1) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4"
PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4"
PROP. HMA SURFACE REMOVAL 2 1/2"
PROP. CLASS D PATCHES, 14"
- (2) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4"
PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4"
PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 10" (HMA BINDER IL-19)
- (3) PROP. CLASS B PATCHES, 10" (LOCATION TO BE DETERMINED BY ENGINEER)



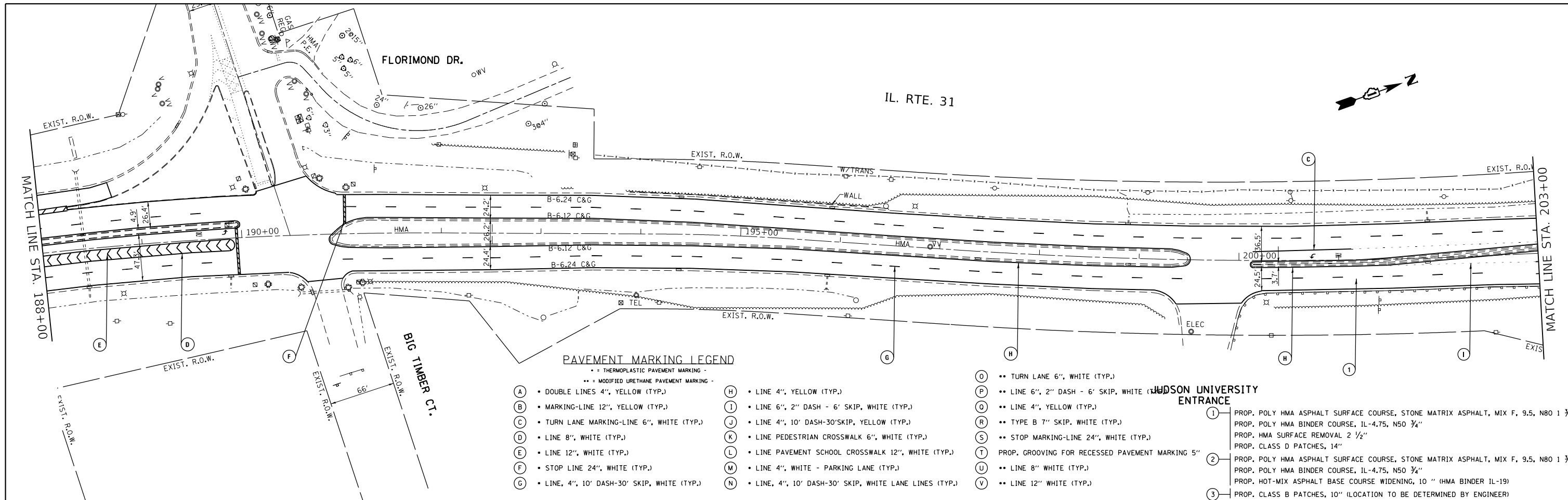
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PLOT DATE = 4/3/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN	
IL. RTE. 31 (STROM DR. - WEST RD. (MENTAL HOSPITAL ENTRANCE))	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	14
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				

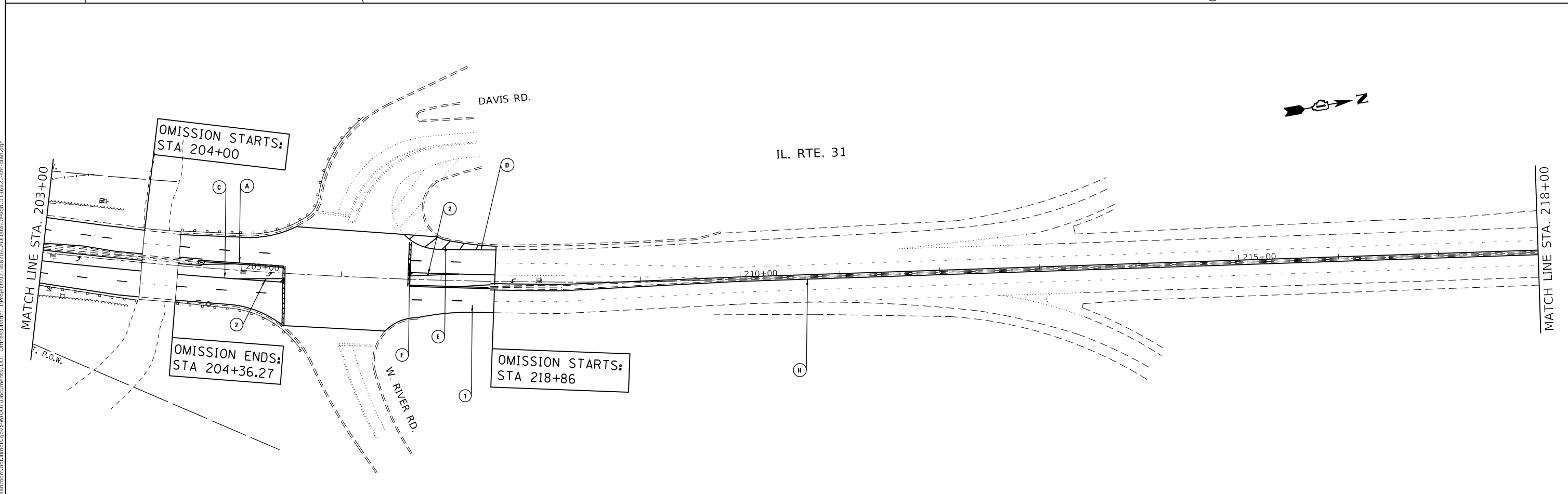


PAVEMENT MARKING LEGEND

- • THERMOPLASTIC PAVEMENT MARKING
- • MODIFIED URETHANE PAVEMENT MARKING
- (A) • DOUBLE LINES 4", YELLOW (TYP.)
- (B) • MARKING-LINE 12", YELLOW (TYP.)
- (C) • TURN LANE MARKING-LINE 6", WHITE (TYP.)
- (D) • LINE 8", WHITE (TYP.)
- (E) • LINE 12", WHITE (TYP.)
- (F) • STOP LINE 24", WHITE (TYP.)
- (G) • LINE, 4", 10' DASH-30' SKIP, WHITE (TYP.)
- (H) • LINE 4", YELLOW (TYP.)
- (I) • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
- (J) • LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.)
- (K) • LINE PEDESTRIAN CROSSWALK 6", WHITE (TYP.)
- (L) • LINE PAVEMENT SCHOOL CROSSWALK 12", WHITE (TYP.)
- (M) • LINE 4", WHITE - PARKING LANE (TYP.)
- (N) • LINE, 4", 10' DASH-30' SKIP, WHITE LANE LINES (TYP.)
- (O) • • TURN LANE 6", WHITE (TYP.)
- (P) • • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
- (Q) • • LINE 4", YELLOW (TYP.)
- (R) • • TYPE B 7" SKIP, WHITE (TYP.)
- (S) • • STOP MARKING-LINE 24", WHITE (TYP.)
- (T) PROP. GROOVING FOR RECESSED PAVEMENT MARKING 5"
- (U) • • LINE 8" WHITE (TYP.)
- (V) • • LINE 12" WHITE (TYP.)

HUDSON UNIVERSITY ENTRANCE

- (1) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4"
PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4"
PROP. HMA SURFACE REMOVAL 2 1/2"
PROP. CLASS D PATCHES, 14"
- (2) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4"
PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4"
PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 10" (HMA BINDER IL-19)
- (3) PROP. CLASS B PATCHES, 10" (LOCATION TO BE DETERMINED BY ENGINEER)



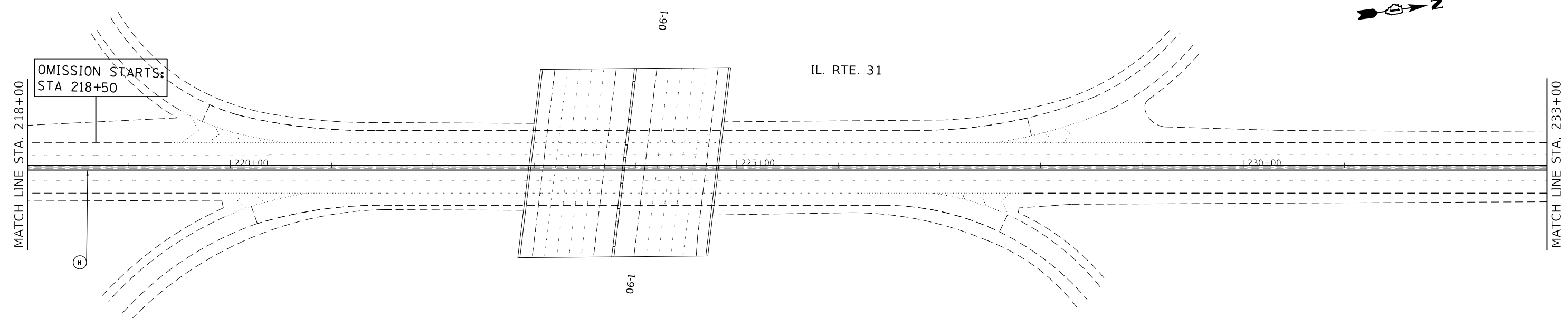
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PLOT DATE = 4/3/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN	
IL. RTE. 31 (STROM DR. - WEST RD. (MENTAL HOSPITAL ENTRANCE))	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

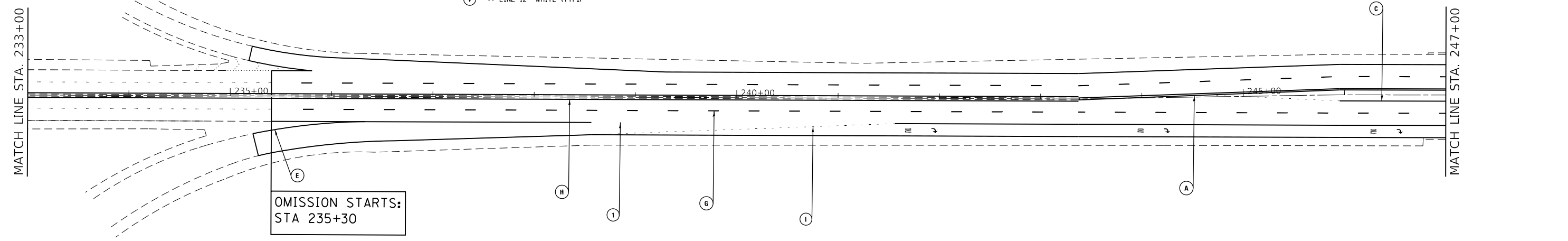
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	15
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

• = THERMOPLASTIC PAVEMENT MARKING -
 ** = MODIFIED URETHANE PAVEMENT MARKING -

- | | | | |
|---|--|---|---|
| (A) • DOUBLE LINES 4", YELLOW (TYP.) | (H) • LINE 4", YELLOW (TYP.) | (O) •• TURN LANE 6", WHITE (TYP.) | (1) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4" |
| (B) • MARKING-LINE 12", YELLOW (TYP.) | (I) • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.) | (P) •• LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.) | PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4" |
| (C) • TURN LANE MARKING-LINE 6", WHITE (TYP.) | (J) • LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.) | (Q) •• LINE 4", YELLOW (TYP.) | PROP. HMA SURFACE REMOVAL 2 1/2" |
| (D) • LINE 8", WHITE (TYP.) | (K) • LINE PEDESTRIAN CROSSWALK 6", WHITE (TYP.) | (R) •• TYPE B 7" SKIP, WHITE (TYP.) | PROP. CLASS D PATCHES, 14" |
| (E) • LINE 12", WHITE (TYP.) | (L) • LINE PAVEMENT SCHOOL CROSSWALK 12", WHITE (TYP.) | (S) •• STOP MARKING-LINE 24", WHITE (TYP.) | (2) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4" |
| (F) • STOP LINE 24", WHITE (TYP.) | (M) • LINE 4", WHITE - PARKING LANE (TYP.) | (T) PROP. GROOVING FOR RECESSED PAVEMENT MARKING 5" | PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4" |
| (G) • LINE, 4", 10' DASH-30' SKIP, WHITE (TYP.) | (N) • LINE, 4", 10' DASH-30' SKIP, WHITE LANE LINES (TYP.) | (U) •• LINE 8" WHITE (TYP.) | PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 10" (HMA BINDER IL-19) |
| | | (V) •• LINE 12" WHITE (TYP.) | (3) PROP. CLASS B PATCHES, 10" (LOCATION TO BE DETERMINED BY ENGINEER) |



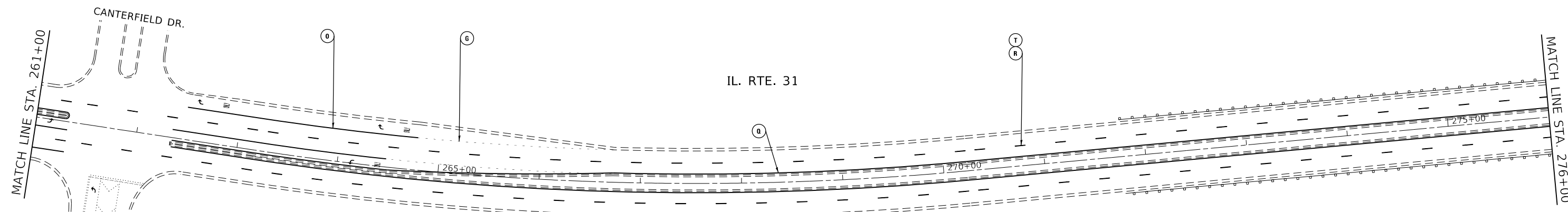
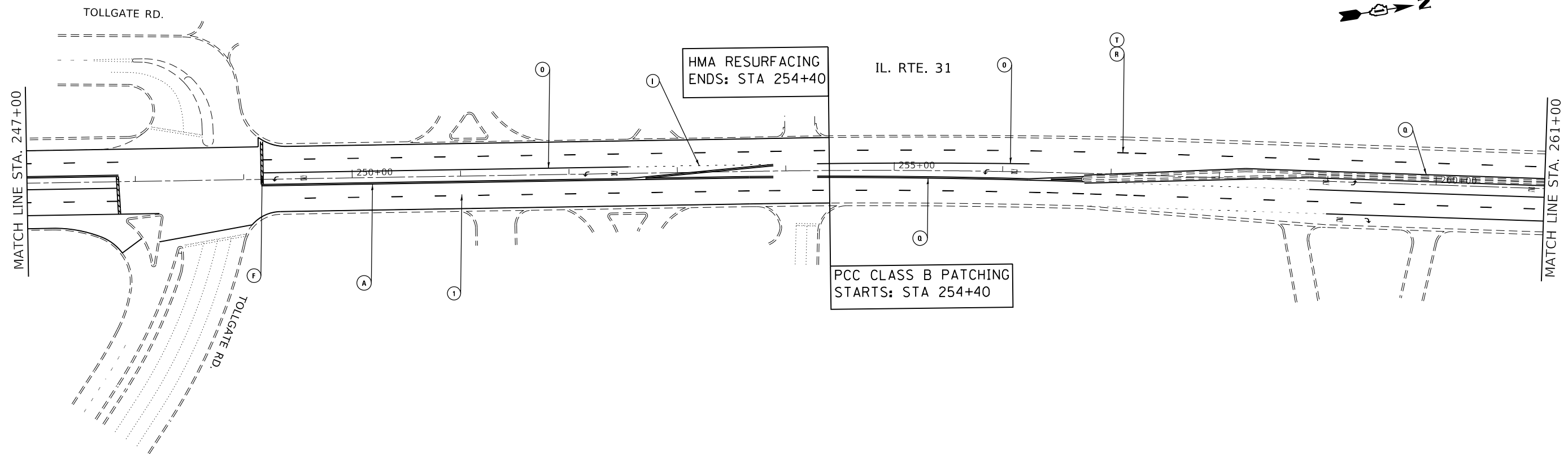
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USER NAME = khans	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/3/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN IL. RTE. 31 (STROM DR. - WEST RD. (MENTAL HOSPITAL ENTRANCE))			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE. 3887	SECTION 2019-198-R5&SW	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 16
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- = THERMOPLASTIC PAVEMENT MARKING -
- = MODIFIED URETHANE PAVEMENT MARKING -
- (A) • DOUBLE LINES 4", YELLOW (TYP.)
- (B) • MARKING-LINE 12", YELLOW (TYP.)
- (C) • TURN LANE MARKING-LINE 6", WHITE (TYP.)
- (D) • LINE 8", WHITE (TYP.)
- (E) • LINE 12", WHITE (TYP.)
- (F) • STOP LINE 24", WHITE (TYP.)
- (G) • LINE, 4", 10' DASH-30' SKIP, WHITE (TYP.)
- (H) • LINE 4", YELLOW (TYP.)
- (I) • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
- (J) • LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.)
- (K) • LINE PEDESTRIAN CROSSWALK 6", WHITE (TYP.)
- (L) • LINE PAVEMENT SCHOOL CROSSWALK 12", WHITE (TYP.)
- (M) • LINE 4", WHITE - PARKING LANE (TYP.)
- (N) • LINE, 4", 10' DASH-30' SKIP, WHITE LANE LINES (TYP.)

- (O) •• TURN LANE 6", WHITE (TYP.)
- (P) •• LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.)
- (Q) •• LINE 4", YELLOW (TYP.)
- (R) •• TYPE B 7" SKIP, WHITE (TYP.)
- (S) •• STOP MARKING-LINE 24", WHITE (TYP.)
- (T) PROP. GROOVING FOR RECESSED PAVEMENT MARKING 5"
- (U) •• LINE 8" WHITE (TYP.)
- (V) •• LINE 12" WHITE (TYP.)

- (1) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4"
PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4"
PROP. HMA SURFACE REMOVAL 2 1/2"
PROP. CLASS D PATCHES, 14"
- (2) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4"
PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4"
PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 10" (HMA BINDER IL-19)
- (3) PROP. CLASS B PATCHES, 10" (LOCATION TO BE DETERMINED BY ENGINEER)

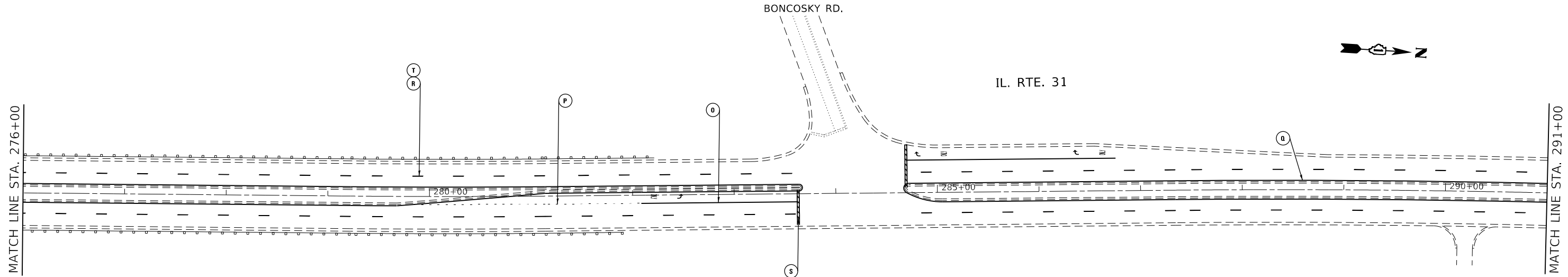
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USER NAME = khans	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/3/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
IL. RTE. 31 (STROM DR. - WEST RD. (MENTAL HOSPITAL ENTRANCE))			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

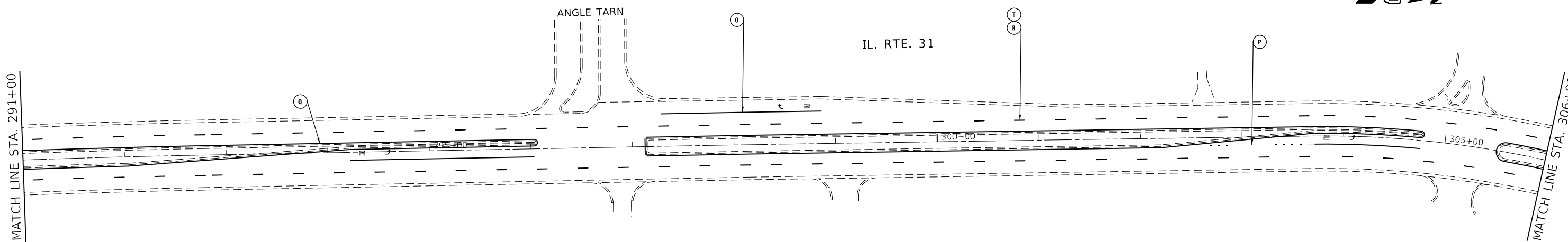
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	17
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

• = THERMOPLASTIC PAVEMENT MARKING
 ** = MODIFIED URETHANE PAVEMENT MARKING

- | | | | |
|---|--|---|---|
| (A) • DOUBLE LINES 4", YELLOW (TYP.) | (H) • LINE 4", YELLOW (TYP.) | (O) • TURN LANE 6", WHITE (TYP.) | (1) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4" |
| (B) • MARKING-LINE 12", YELLOW (TYP.) | (I) • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.) | (P) • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.) | PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4" |
| (C) • TURN LANE MARKING-LINE 6", WHITE (TYP.) | (J) • LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.) | (Q) • LINE 4", YELLOW (TYP.) | PROP. HMA SURFACE REMOVAL 2 1/2" |
| (D) • LINE 8", WHITE (TYP.) | (K) • LINE PEDESTRIAN CROSSWALK 6", WHITE (TYP.) | (R) • TYPE B 7" SKIP, WHITE (TYP.) | PROP. CLASS D PATCHES, 14" |
| (E) • LINE 12", WHITE (TYP.) | (L) • LINE PAVEMENT SCHOOL CROSSWALK 12", WHITE (TYP.) | (S) • STOP MARKING-LINE 24", WHITE (TYP.) | (2) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4" |
| (F) • STOP LINE 24", WHITE (TYP.) | (M) • LINE 4", WHITE - PARKING LANE (TYP.) | (T) PROP. GROOVING FOR RECESSED PAVEMENT MARKING 5" | PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4" |
| (G) • LINE, 4", 10' DASH-30' SKIP, WHITE (TYP.) | (N) • LINE, 4", 10' DASH-30' SKIP, WHITE LANE LINES (TYP.) | (U) • LINE 8" WHITE (TYP.) | PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 10" (HMA BINDER IL-19) |
| | | (V) • LINE 12" WHITE (TYP.) | (3) PROP. CLASS B PATCHES, 10" (LOCATION TO BE DETERMINED BY ENGINEER) |



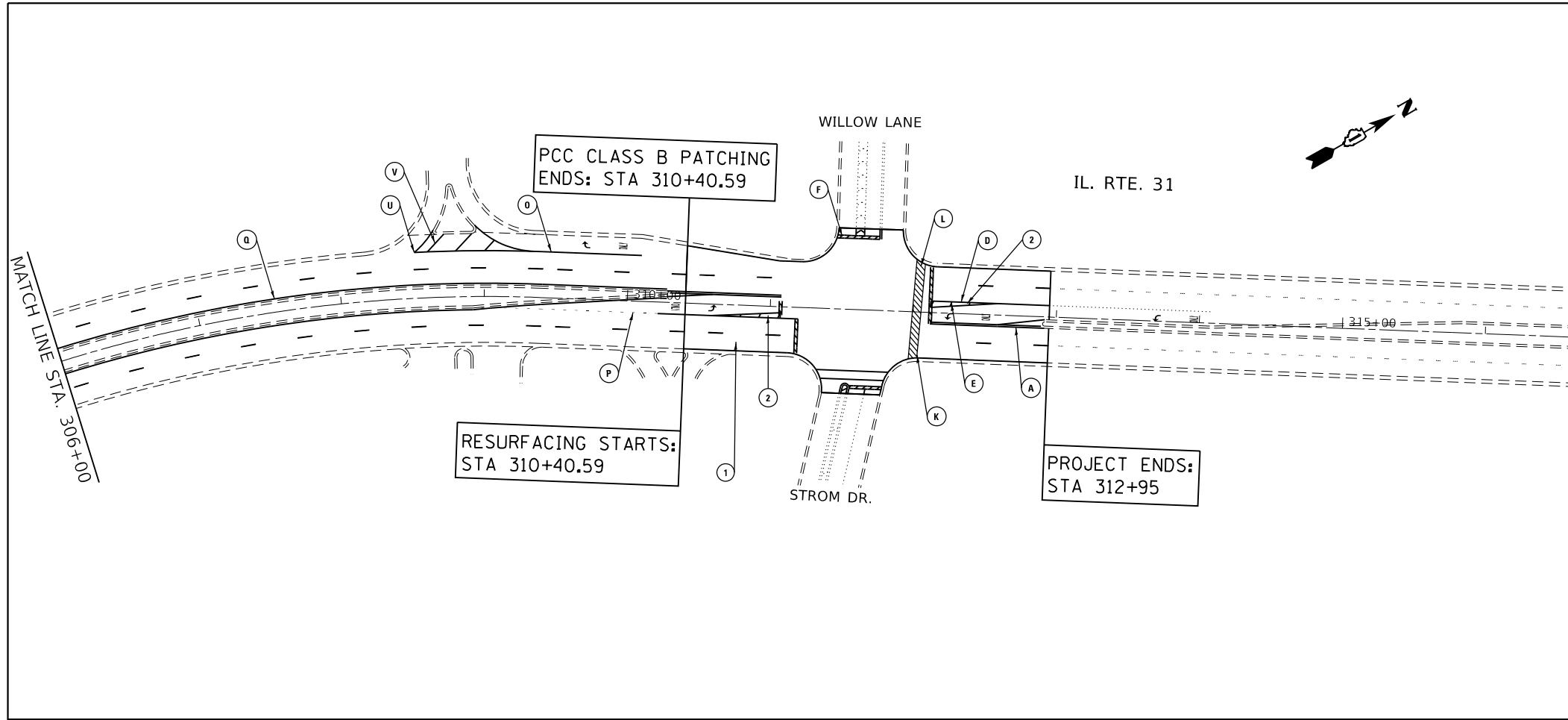
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USER NAME = khans	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/3/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN
IL. RTE. 31 (STROM DR. - WEST RD. (MENTAL HOSPITAL ENTRANCE))
 SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	18
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

• = THERMOPLASTIC PAVEMENT MARKING -

** = MODIFIED URETHANE PAVEMENT MARKING -

- | | | | |
|---|--|---|---|
| (A) • DOUBLE LINES 4", YELLOW (TYP.) | (H) • LINE 4", YELLOW (TYP.) | (O) •• TURN LANE 6", WHITE (TYP.) | (1) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4" |
| (B) • MARKING-LINE 12", YELLOW (TYP.) | (I) • LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.) | (P) •• LINE 6", 2" DASH - 6' SKIP, WHITE (TYP.) | PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4" |
| (C) • TURN LANE MARKING-LINE 6", WHITE (TYP.) | (J) • LINE 4", 10' DASH-30'SKIP, YELLOW (TYP.) | (Q) •• LINE 4", YELLOW (TYP.) | PROP. HMA SURFACE REMOVAL 2 1/2" |
| (D) • LINE 8", WHITE (TYP.) | (K) • LINE PEDESTRIAN CROSSWALK 6", WHITE (TYP.) | (R) •• TYPE B 7" SKIP, WHITE (TYP.) | PROP. CLASS D PATCHES, 14" |
| (E) • LINE 12", WHITE (TYP.) | (L) • LINE PAVEMENT SCHOOL CROSSWALK 12", WHITE (TYP.) | (S) •• STOP MARKING-LINE 24", WHITE (TYP.) | (2) PROP. POLY HMA ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, MIX F, 9.5, N80 1 3/4" |
| (F) • STOP LINE 24", WHITE (TYP.) | (M) • LINE 4", WHITE - PARKING LANE (TYP.) | (T) PROP. GROOVING FOR RECESSED PAVEMENT MARKING 5" | PROP. POLY HMA BINDER COURSE, IL-4.75, N50 3/4" |
| (G) • LINE, 4", 10' DASH-30' SKIP, WHITE (TYP.) | (N) • LINE, 4", 10' DASH-30' SKIP, WHITE LANE LINES (TYP.) | (U) •• LINE 8" WHITE (TYP.) | PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 10" (HMA BINDER IL-19) |
| | | (V) •• LINE 12" WHITE (TYP.) | (3) PROP. CLASS B PATCHES, 10" (LOCATION TO BE DETERMINED BY ENGINEER) |

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USER NAME = khans	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/3/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

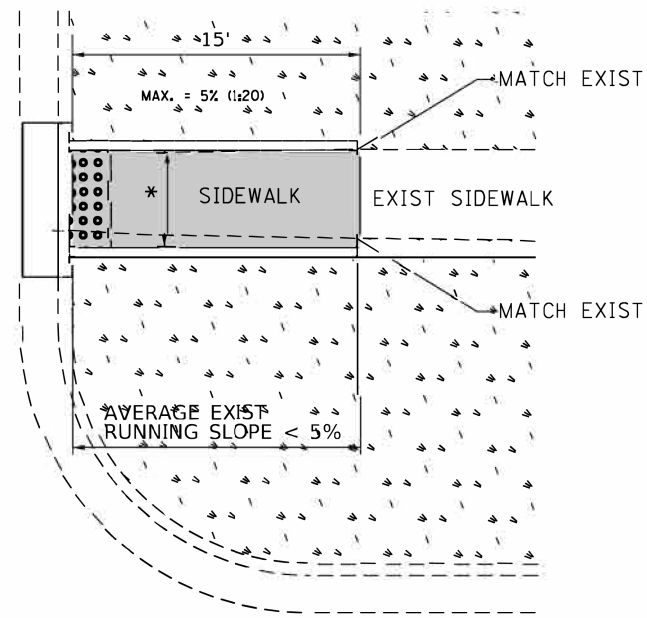
**ROADWAY PLAN
IL. RTE. 31 (STROM DR. - WEST RD. (MENTAL HOSPITAL ENTRANCE))**

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

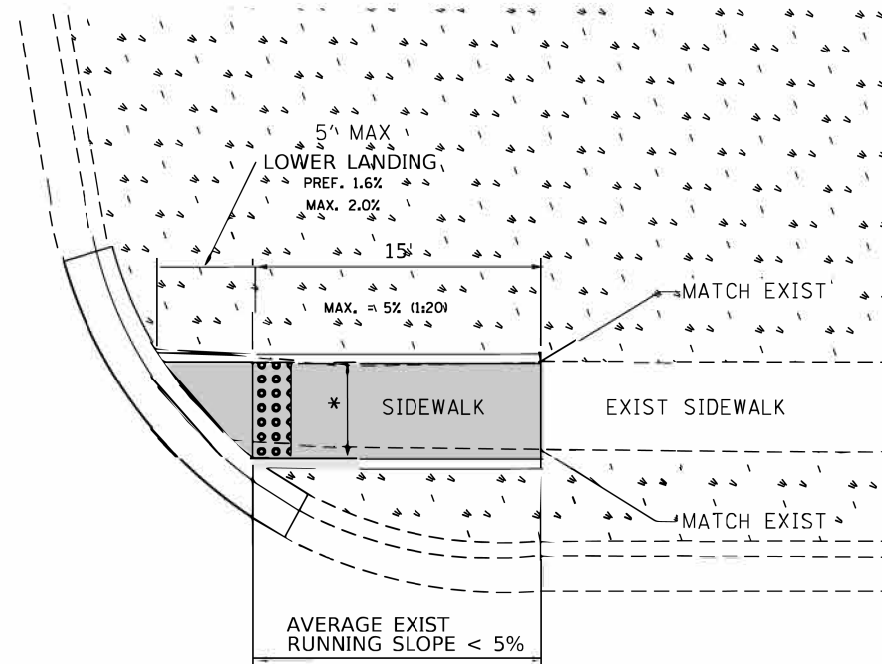
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3887	2019-198-R5&SW	KANE	64	19
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR LESS RUN. SLOPE

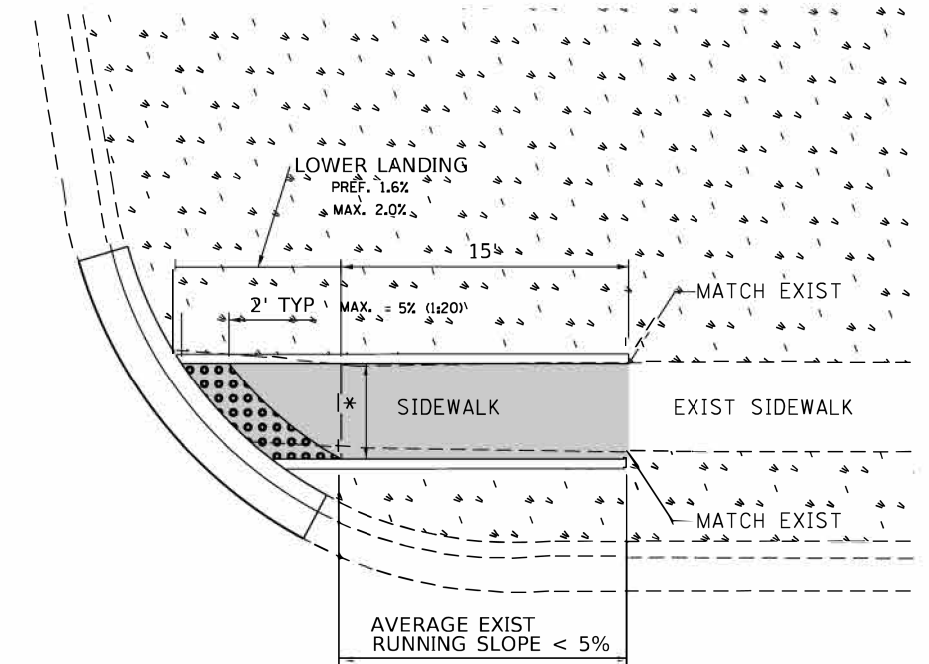
PD-01A



PD-01B

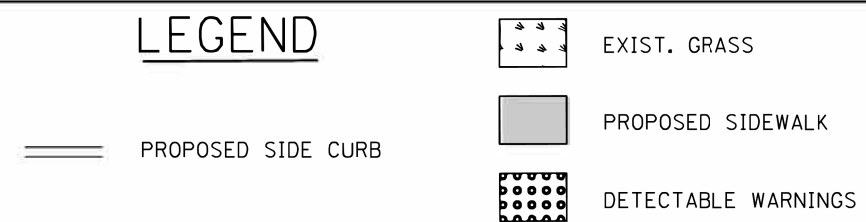


PD-01C



DESIGNER NOTES:
 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

LEGEND

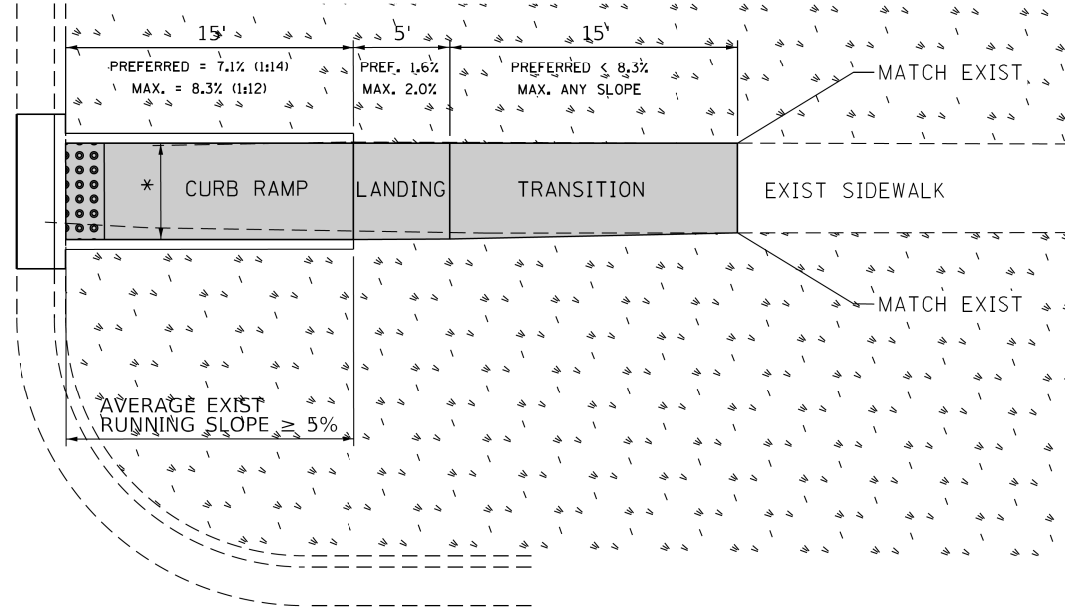


CONSTRUCTION NOTES:
 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
 * MATCH EXISTING SIDEWALK WIDTH

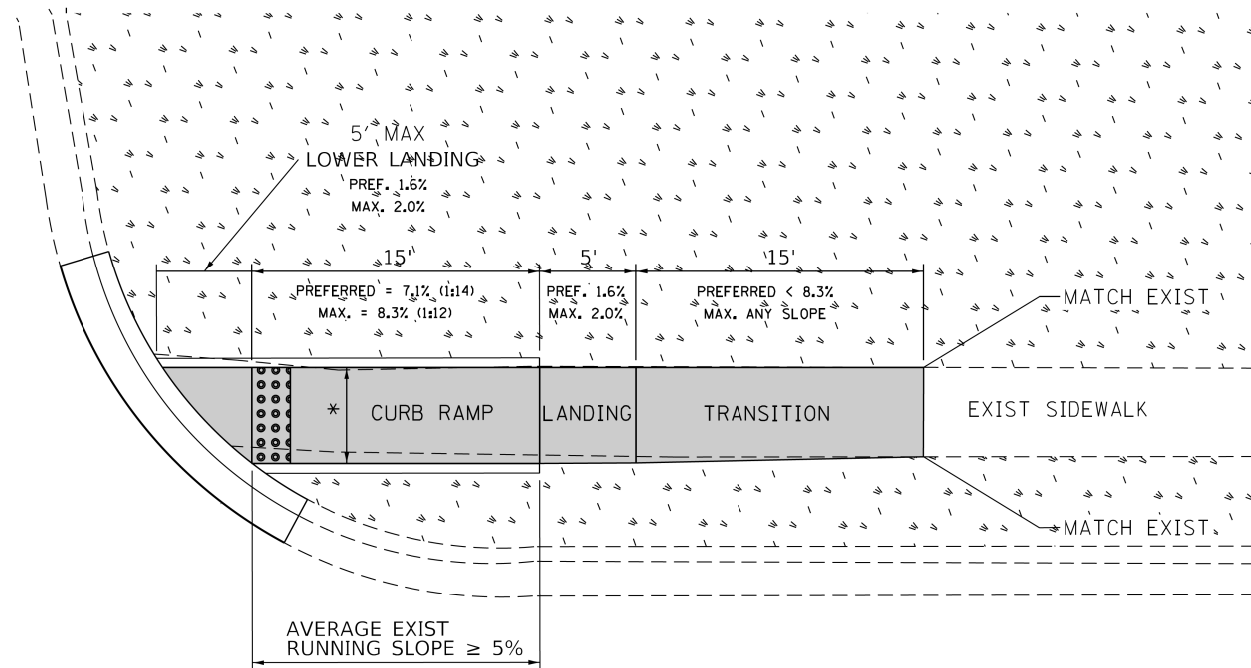
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SN\WP\PLANPREP\SQUAD.1\Des_RL\Typical ADA details\Typical-ADA-shr-plan.dgn		DRAWN - RL 11/12/2019	REVISED -	DEPARTMENT OF TRANSPORTATION	(PD-01)	3887	2019-198-R56SW	KANE	64	20
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	PLOT DATE = 11/12/2019	DATE -	REVISED -		SHEET	OF	SHEETS	STA.	TO STA.	
									ILLINOIS FED. AID PROJECT	

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR GREATER RUN. SLOPE

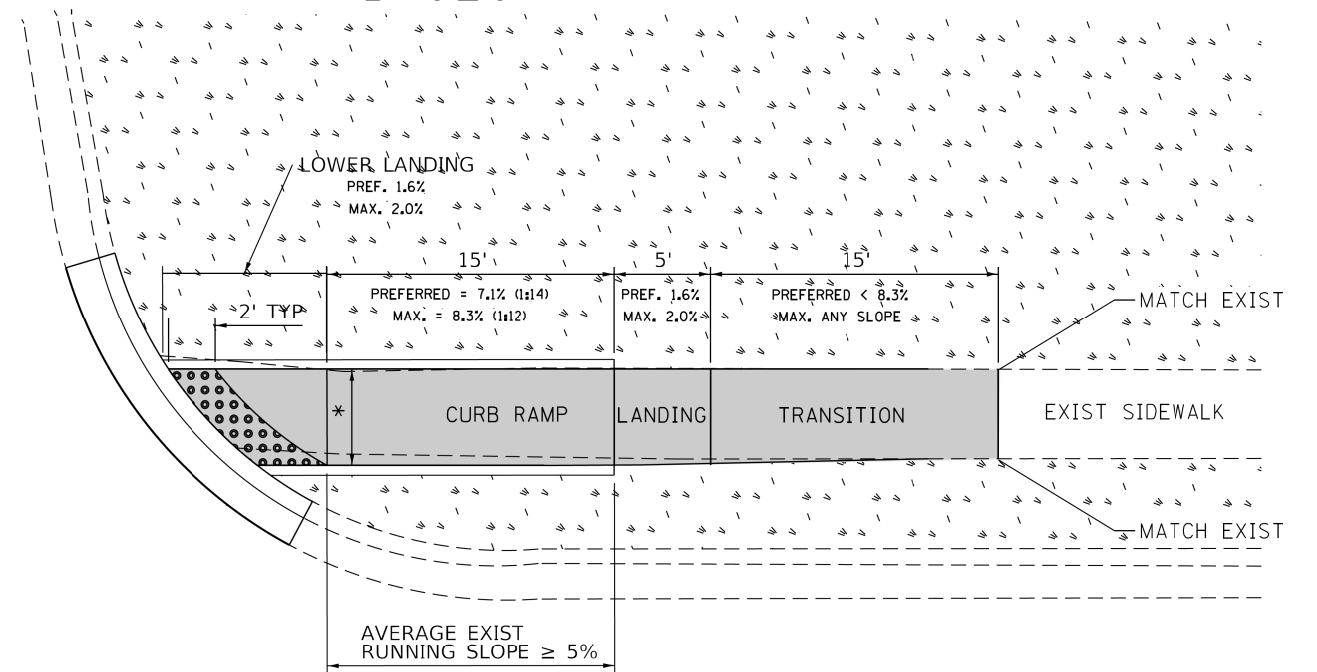
PD-02A



PD-02B



PD-02C



DESIGNER NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

LEGEND

- EXIST. GRASS
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- PROPOSED SIDE CURB

CONSTRUCTION NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK

* MATCH EXISTING SIDEWALK WIDTH

FILE NAME =	USER NAME = ldezma	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

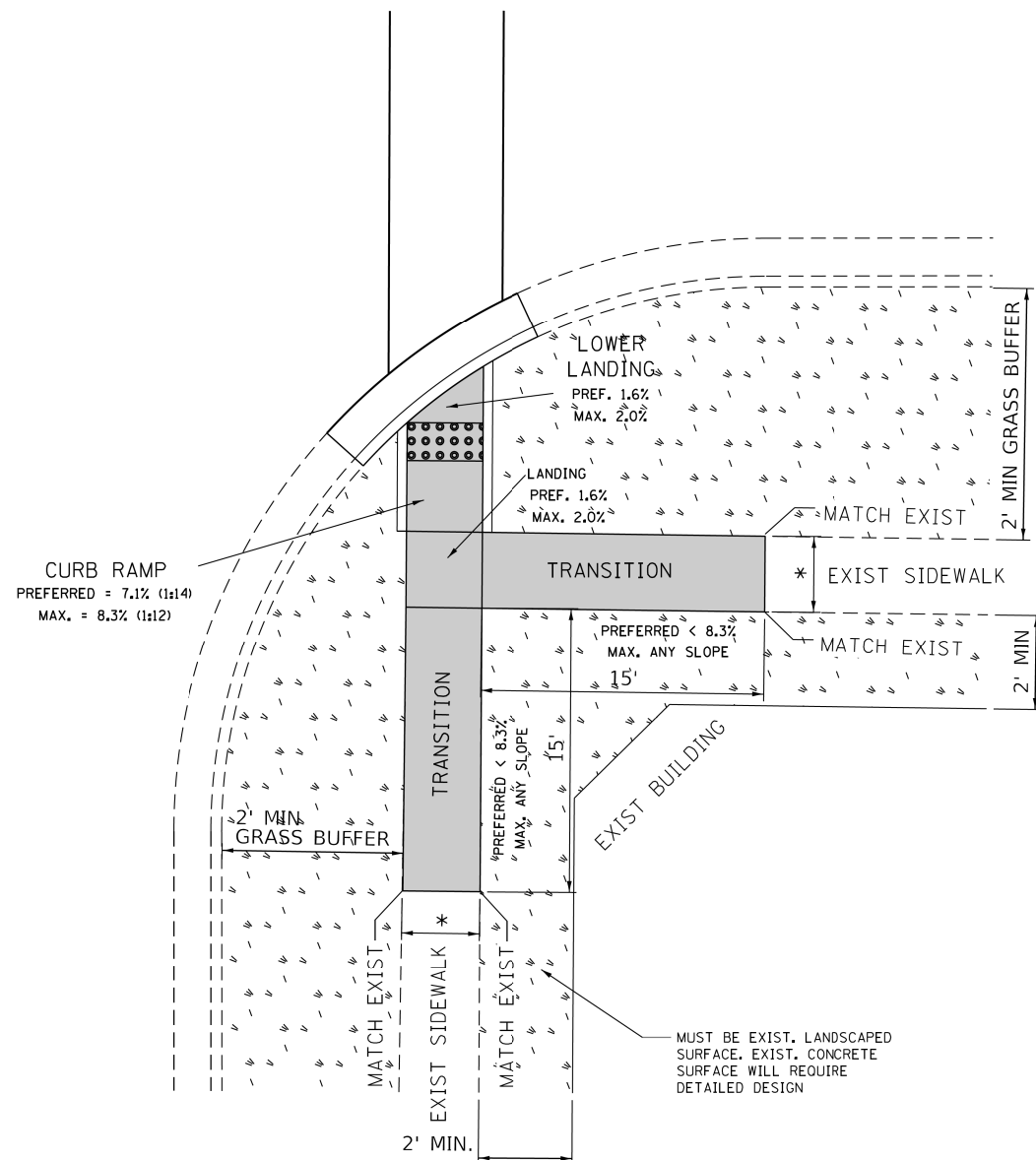
PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS
(PD-02)

SCALE: SHEET OF SHEETS STA. TO STA.

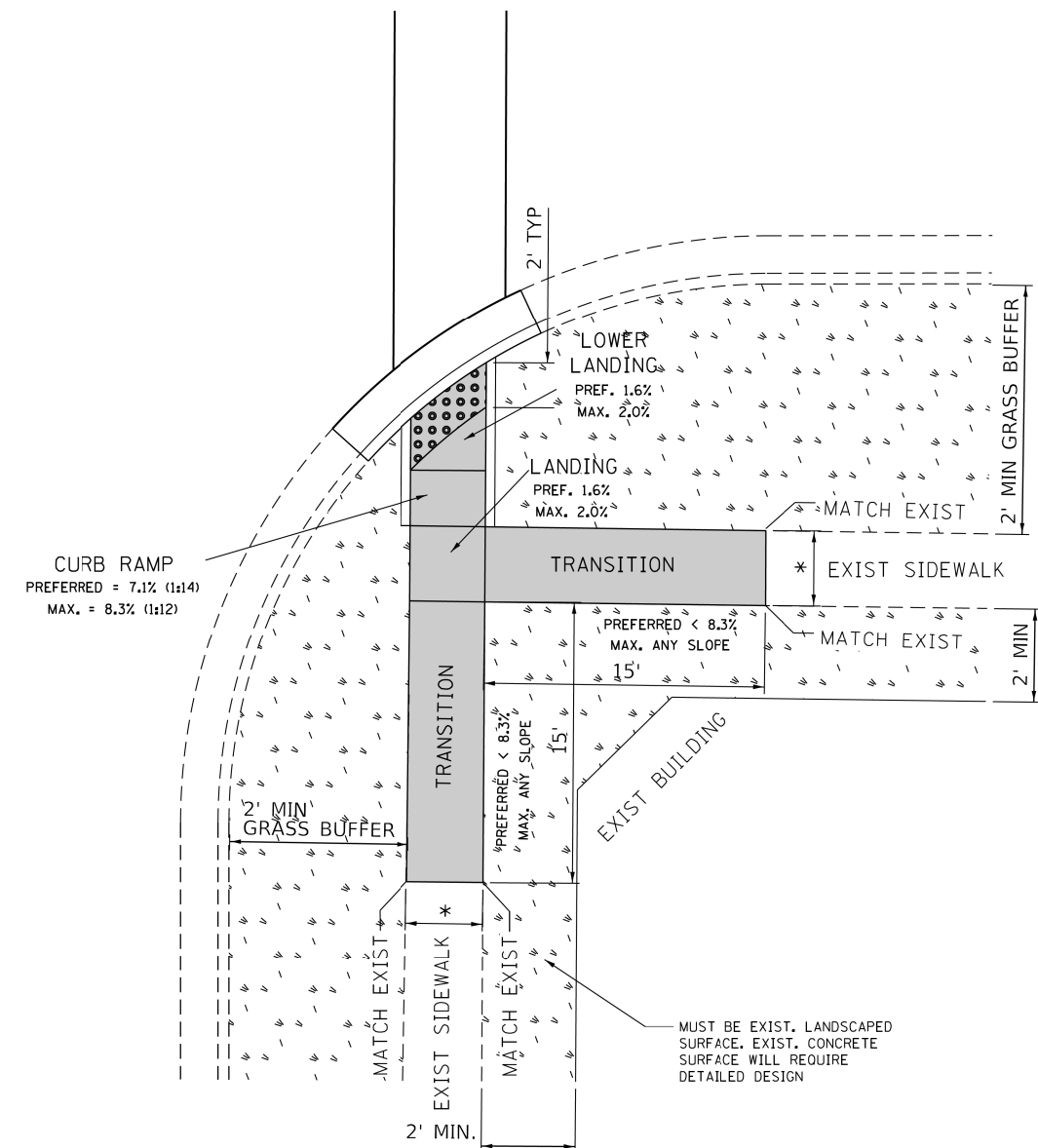
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R56SW	KANE	64	21
PD-02		CONTRACT NO. 62K71		
ILLINOIS FED. AID PROJECT				

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ TURNING SPACE

PD-04A



PD-04B



- DESIGNER NOTES:**
- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
 - 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
 - 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
 - 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

LEGEND

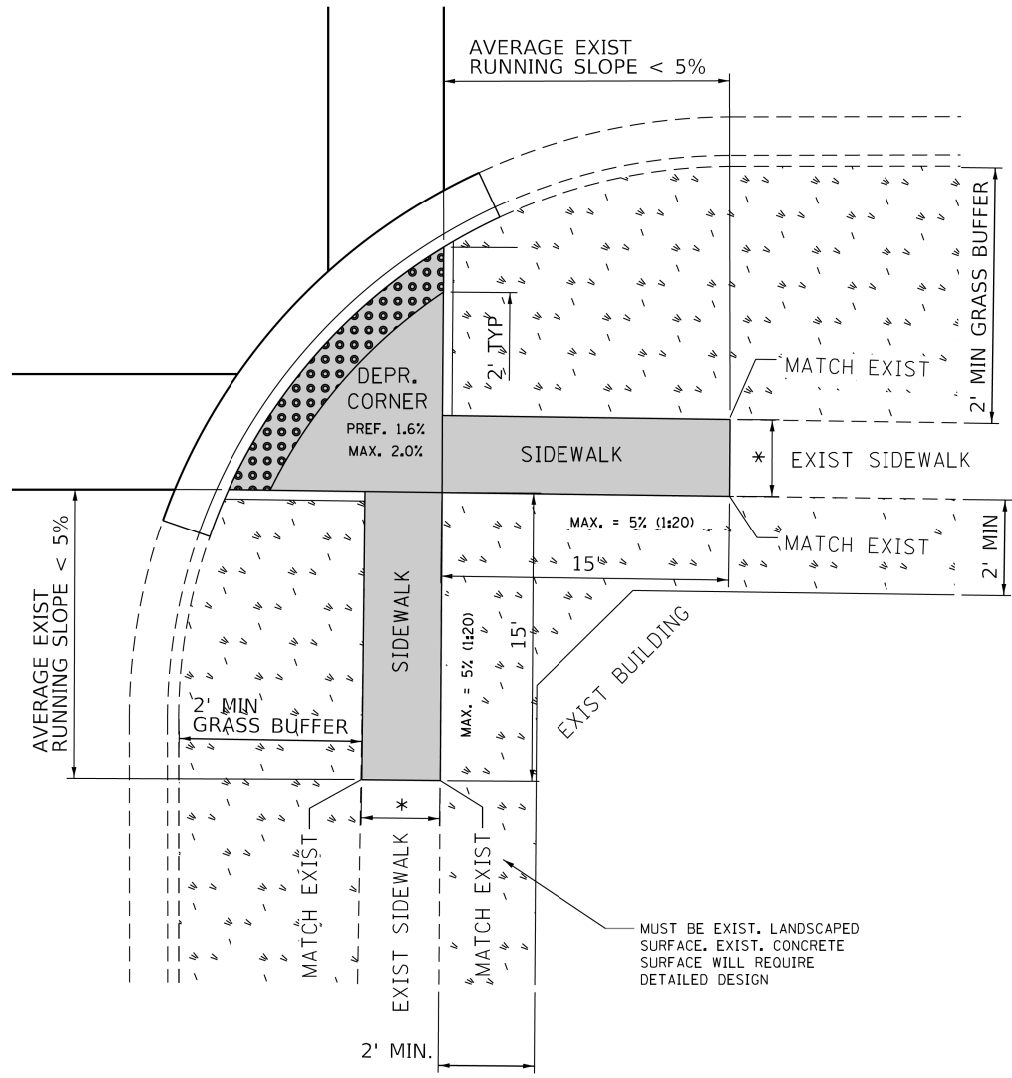
	PROPOSED SIDE CURB		EXIST. GRASS
	PROPOSED SIDEWALK		DETECTABLE WARNINGS

- CONSTRUCTION NOTES:**
- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- * MATCH EXISTING SIDEWALK WIDTH

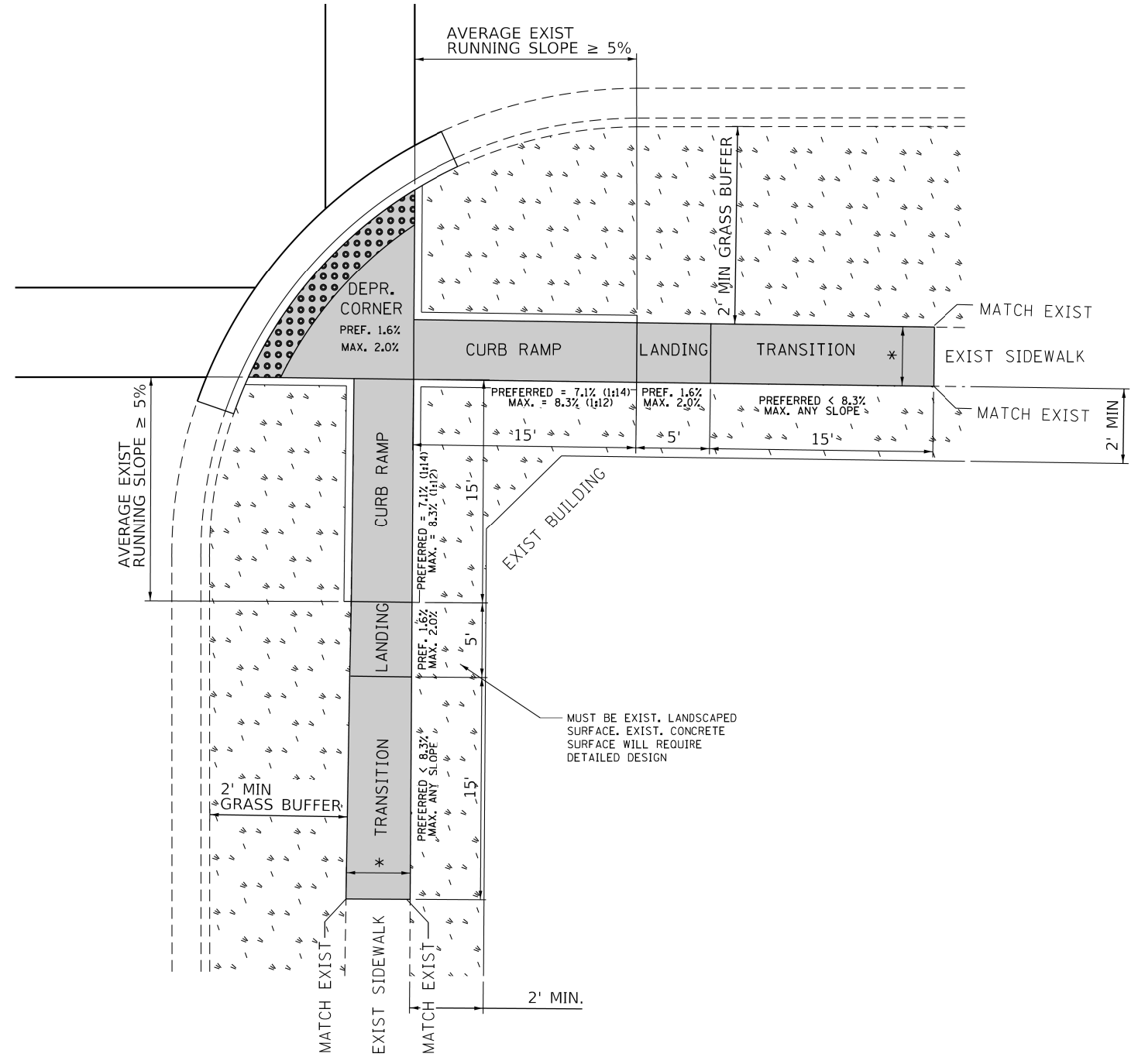
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S:\WP\PLANPREP\SQUAD_1\Des_RL\Typical ADA details\Typical-ADA-shr-plan.dgn		DRAWN - RL 11/12/2019	REVISED -	DEPARTMENT OF TRANSPORTATION	W/TURNING SPACE (PD-04)	3887	2019-198-R56SW	KANE	64	23
Default	PLOT SCALE = 10.0000' / 1"	CHECKED -	REVISED -		SCALE:	PD-04		CONTRACT NO. 62K71		
	PLOT DATE = 11/12/2019	DATE -	REVISED -		SHEET OF SHEETS	ILLINOIS FED. AID PROJECT				

ADA DETAIL FOR DEPRESSED CORNER CURB RAMPS

PD-05A



PD-05B



- DESIGNER NOTES:**
- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
 - 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
 - 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
 - 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

LEGEND

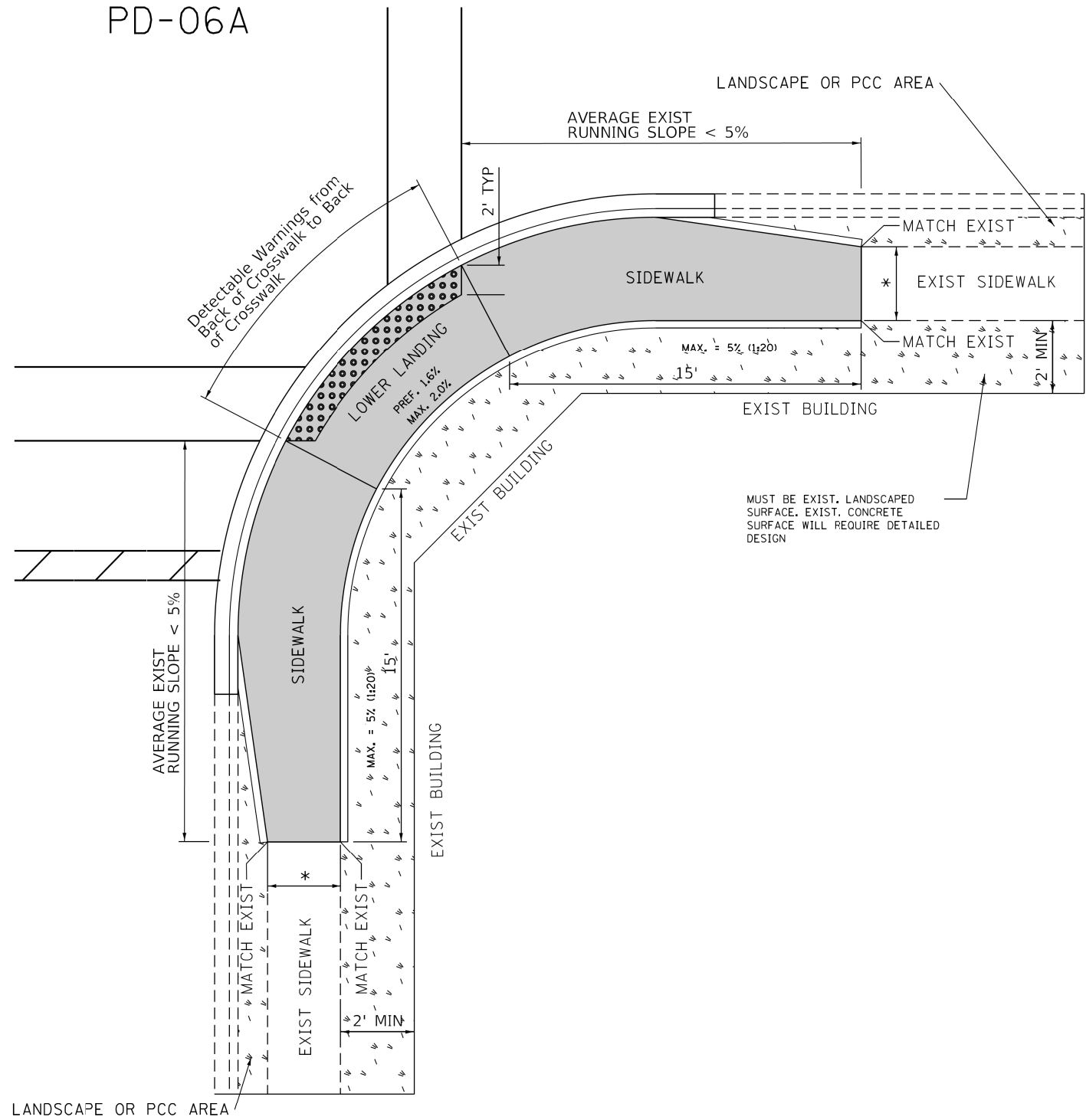
	PROPOSED SIDE CURB		EXIST. GRASS
	PROPOSED SIDEWALK		DETECTABLE WARNINGS

- CONSTRUCTION NOTES:**
- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- * MATCH EXISTING SIDEWALK WIDTH

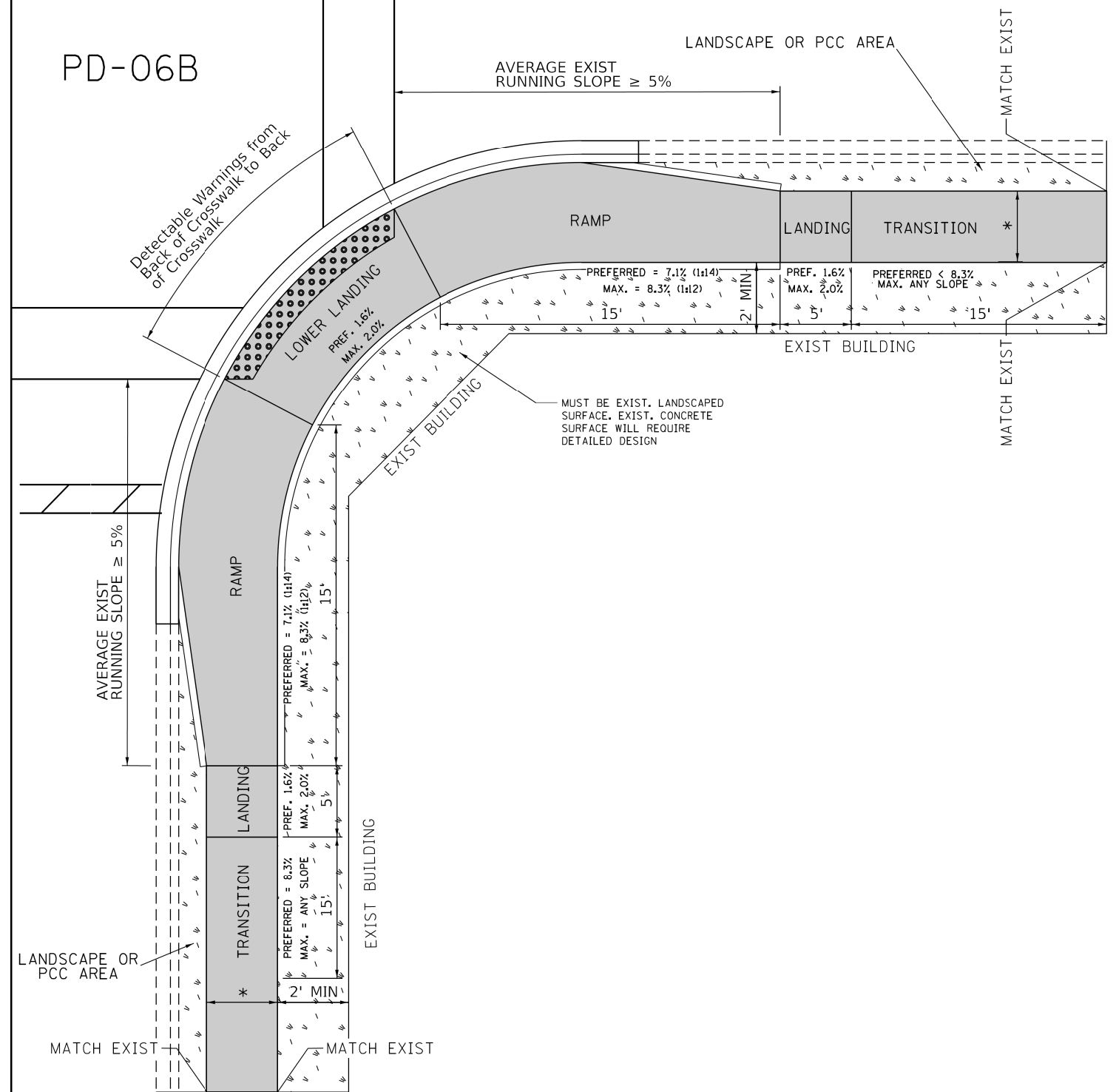
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Default		CHECKED -	REVISED -		PD-05				CONTRACT NO. 62K71				
		DATE -	REVISED -		ILLINOIS	FED. AID PROJECT							

ADA DETAIL FOR PARALLEL CURB RAMPS ADJACENT TO LANDSCAPING

PD-06A



PD-06B



DESIGNER NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

LEGEND

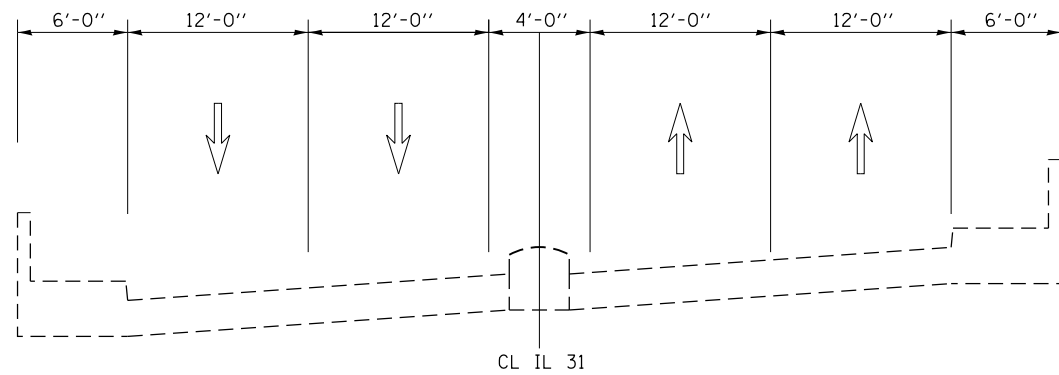
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	PROPOSED SIDEWALK		DETECTABLE WARNINGS

CONSTRUCTION NOTES:

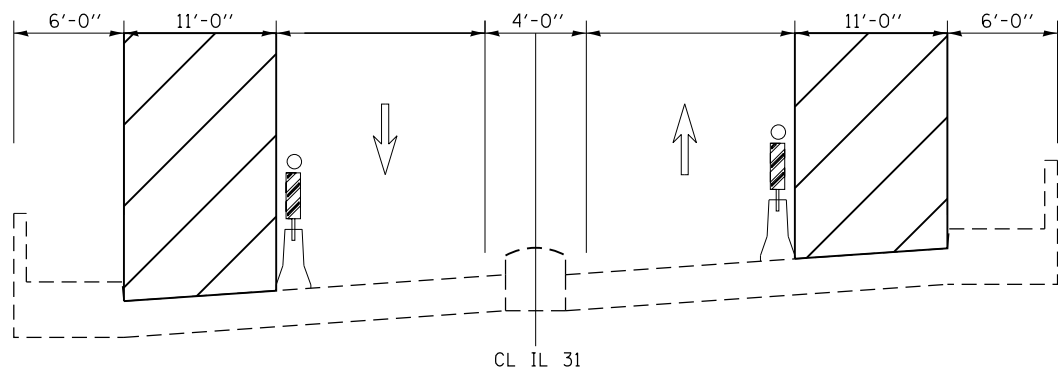
- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK

* MATCH EXISTING SIDEWALK WIDTH

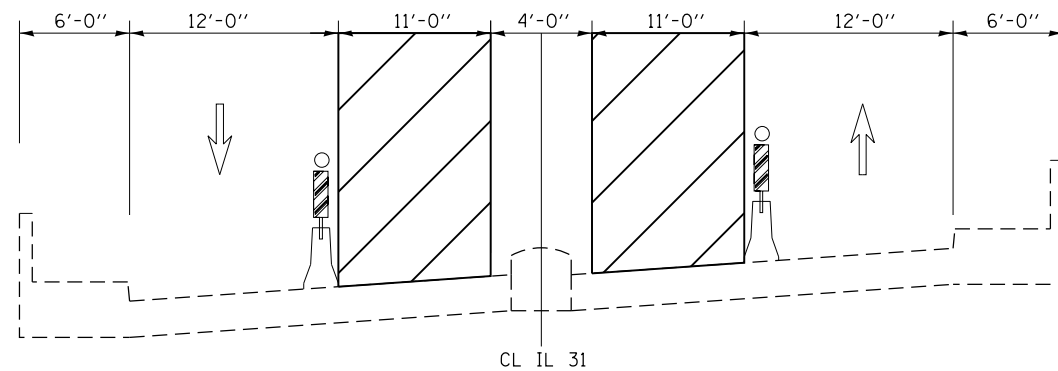
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Sn\WP\PLANPREP\SQUAD_1\Des_RL\Typical ADA details\Typical-ADA-shr-plot.dgn		DRAWN - RL 11/12/2019	REVISED -	DEPARTMENT OF TRANSPORTATION	(PD-06)	3887	2019-198-R56SW	KANE	64	25
Default	PLOT SCALE = 10.0000' / 1"	CHECKED -	REVISED -		SCALE:	PD-06		ILLINOIS	CONTRACT NO. 62K71	
	PLOT DATE = 11/12/2019	DATE -	REVISED -		SHEET OF SHEETS	STA.	TO STA.	FED. AID PROJECT		



IL 31 OVER US 20
EXISTING TYPICAL



IL 31 OVER US 20
STAGE 1 CONSTRUCTION



IL 31 OVER US 20
STAGE 2 CONSTRUCTION

MOT TYPICAL LEGEND

 WORK AREA

 TEMPORARY CONCRETE BARRIER

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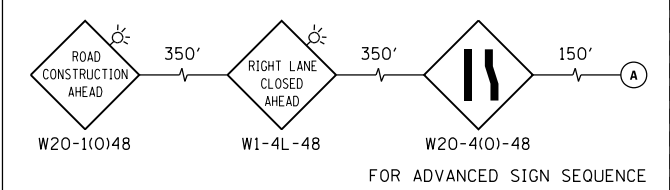
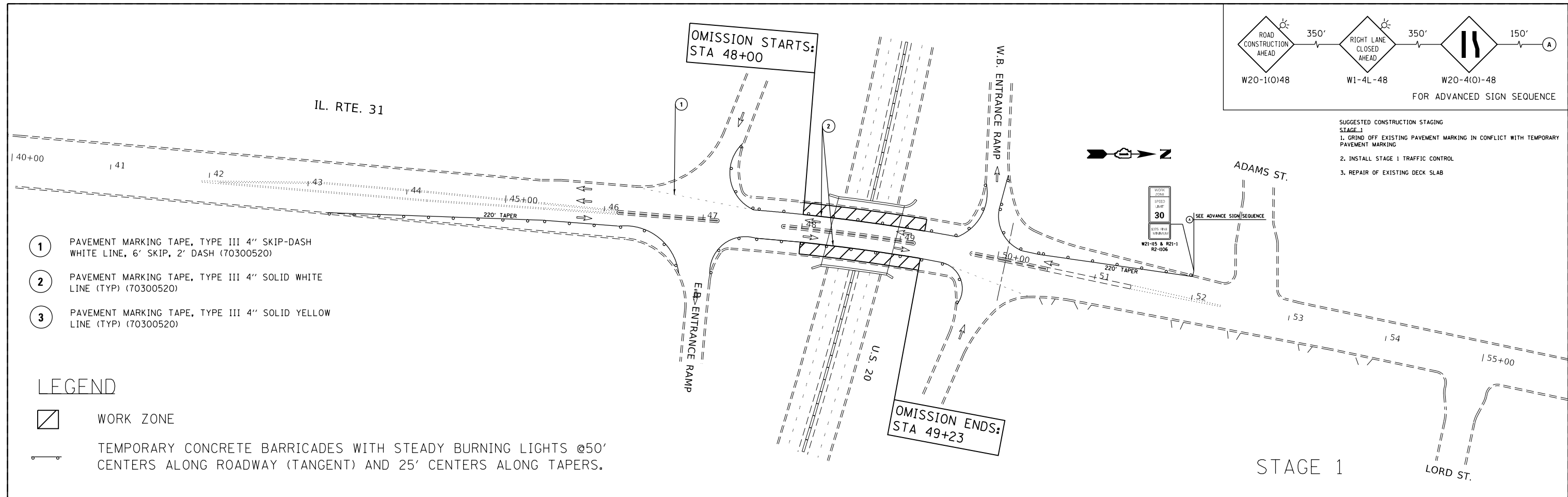
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
IL RTE 31 (WEST RD TO STROM DR)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K71	

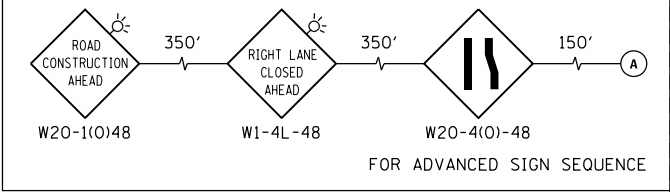
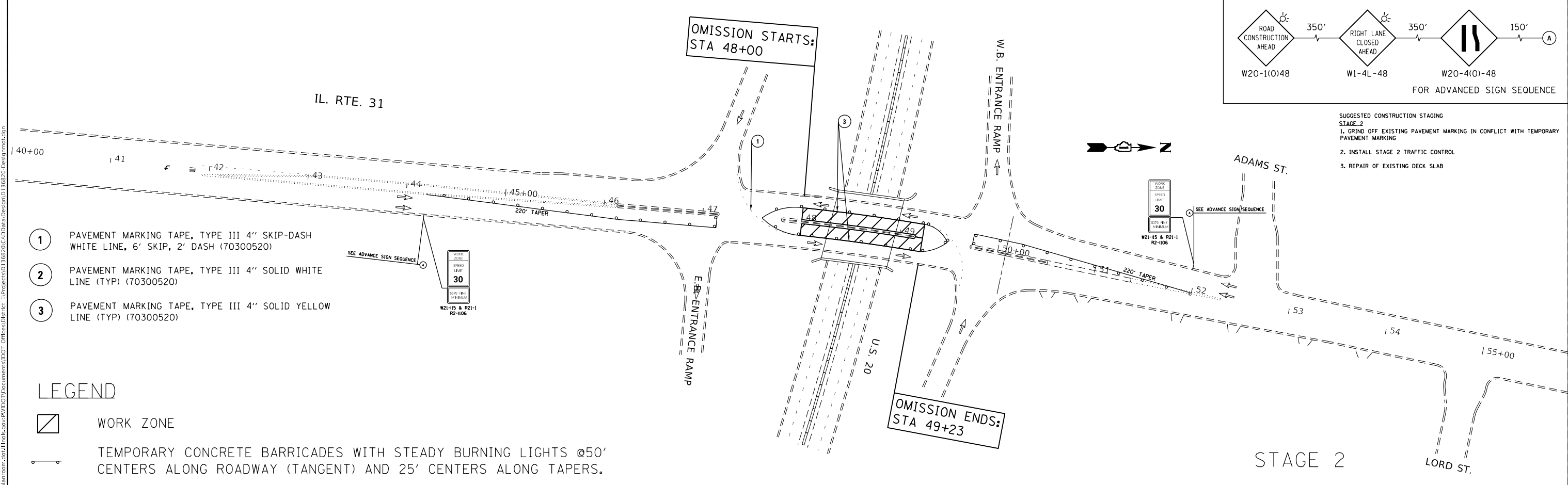


- SUGGESTED CONSTRUCTION STAGING
STAGE 1
 1. GRIND OFF EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKING
 2. INSTALL STAGE 1 TRAFFIC CONTROL
 3. REPAIR OF EXISTING DECK SLAB

- 1 PAVEMENT MARKING TAPE, TYPE III 4" SKIP-DASH WHITE LINE, 6' SKIP, 2' DASH (70300520)
- 2 PAVEMENT MARKING TAPE, TYPE III 4" SOLID WHITE LINE (TYP) (70300520)
- 3 PAVEMENT MARKING TAPE, TYPE III 4" SOLID YELLOW LINE (TYP) (70300520)

LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRICADES WITH STEADY BURNING LIGHTS @50' CENTERS ALONG ROADWAY (TANGENT) AND 25' CENTERS ALONG TAPERS.



- SUGGESTED CONSTRUCTION STAGING
STAGE 2
 1. GRIND OFF EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKING
 2. INSTALL STAGE 2 TRAFFIC CONTROL
 3. REPAIR OF EXISTING DECK SLAB

- 1 PAVEMENT MARKING TAPE, TYPE III 4" SKIP-DASH WHITE LINE, 6' SKIP, 2' DASH (70300520)
- 2 PAVEMENT MARKING TAPE, TYPE III 4" SOLID WHITE LINE (TYP) (70300520)
- 3 PAVEMENT MARKING TAPE, TYPE III 4" SOLID YELLOW LINE (TYP) (70300520)

LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRICADES WITH STEADY BURNING LIGHTS @50' CENTERS ALONG ROADWAY (TANGENT) AND 25' CENTERS ALONG TAPERS.

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PLOT DATE = 4/3/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGES OF TRAFFIC AND TRAFFIC CONTROL
IL RTE 31 (WEST RD TO STROM DR)

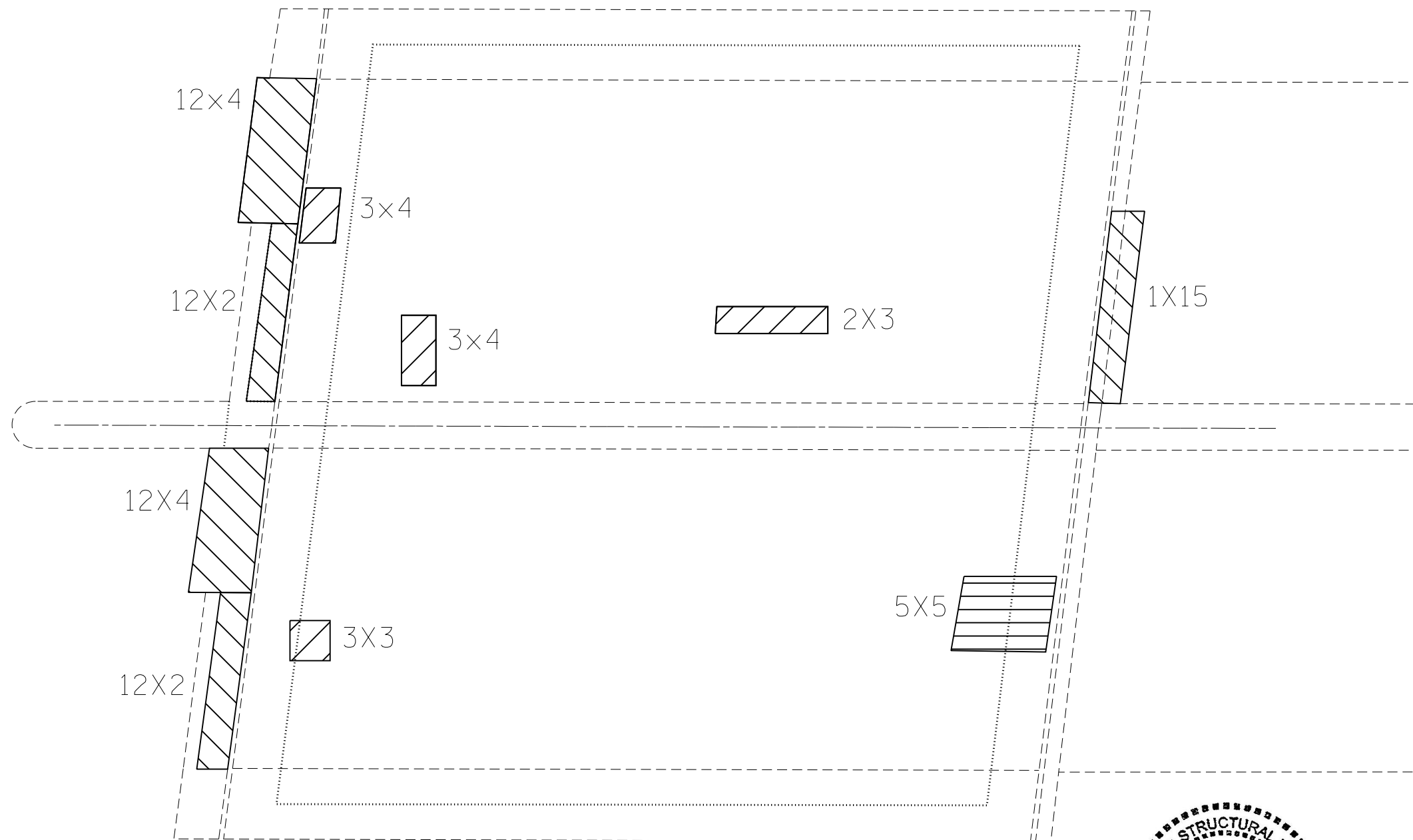
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	27
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

REPAIR OF THE EXISTING DECK SLAB SHALL INCLUDE BUT NOT LIMITED TO THE AREAS SHOWN. THE ACTUAL AREA TO BE REPAIRED WILL BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION.



- DECK SLAB REPAIR (FULL DEPTH, TYPE II)
- DECK SLAB REPAIR (PARTIAL)
- APPROACH SLAB REPAIR (PARTIAL DEPTH)



Expires 11-30-2020

David Carl Puzey

5/5/2020

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	17.7
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	2.8
DECK SLAB REPAIR PARTIAL	SQ YD	4.3
PROTECTIVE SHIELD (PERMANENT)	SQ YD	75
PROTECTIVE SHIELD (PERMANENT) REMOVAL	SQ FT	675

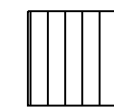
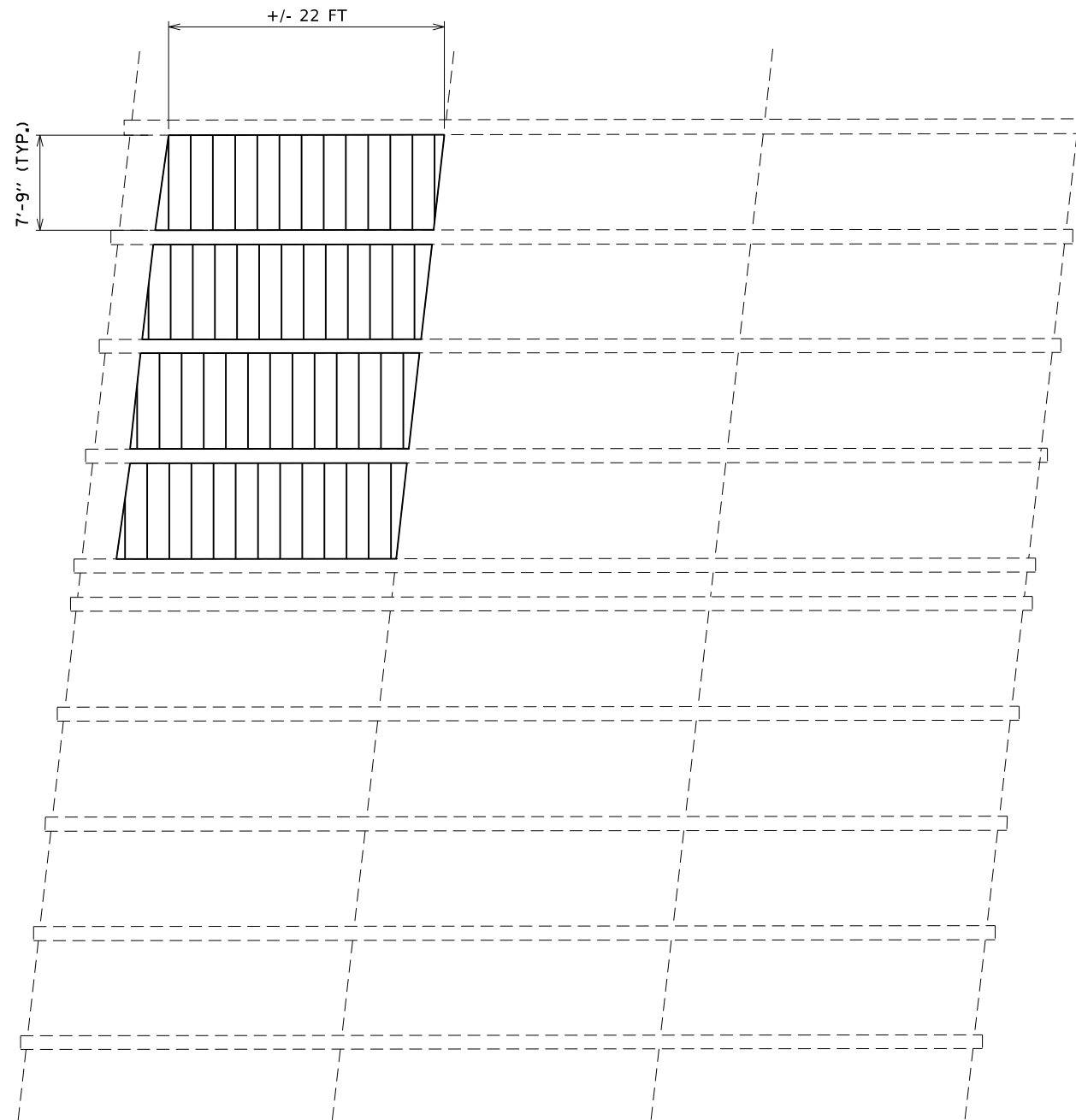
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	DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE REPAIR DETAILS			
IL RTE 31 (WEST RD TO STROM DR)			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	28
				CONTRACT NO. 62K71
		ILLINOIS	FED. AID PROJECT	



PROTECTIVE SHIELD
 (REMOVAL AND REPLACEMENT
 FOR DETAIL SEE SHEET
 29A OF 64)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
PROTECTIVE SHIELD (PERMANENT)	SQ YD	75
PROTECTIVE SHIELD (PERMANENT) REMOVAL	SO FT	675

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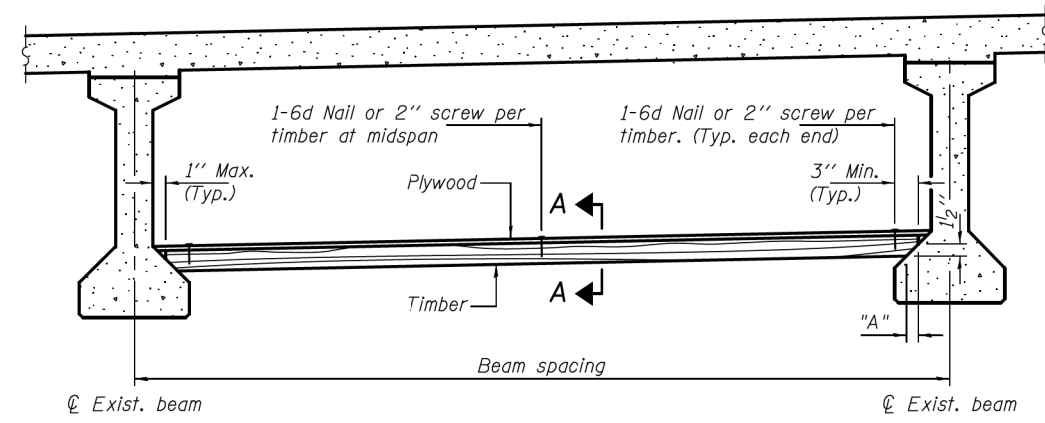
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

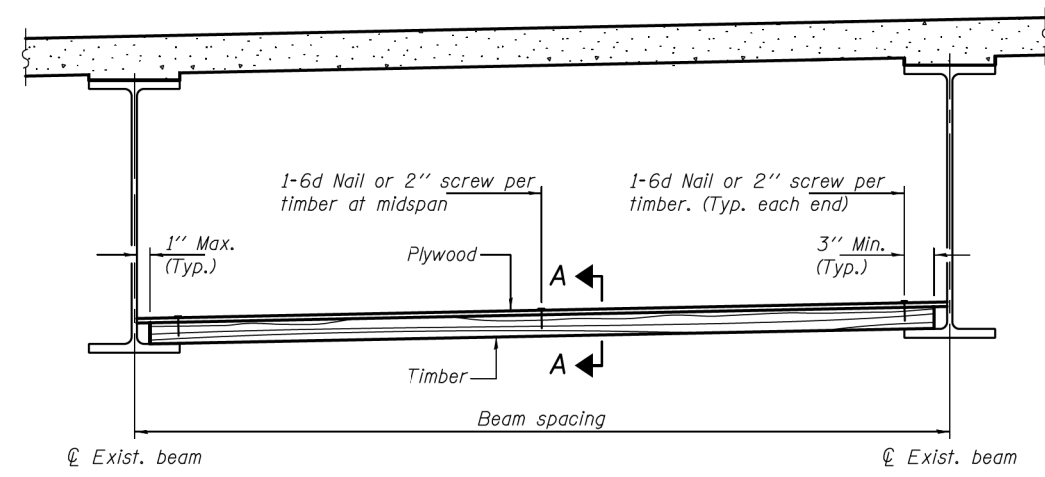
BRIDGE REPAIR DETAILS IL RTE 31 (WEST RD TO STROM DR)			
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	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	29
CONTRACT NO. 62K71				
ILLINOIS FED. AID PROJECT				

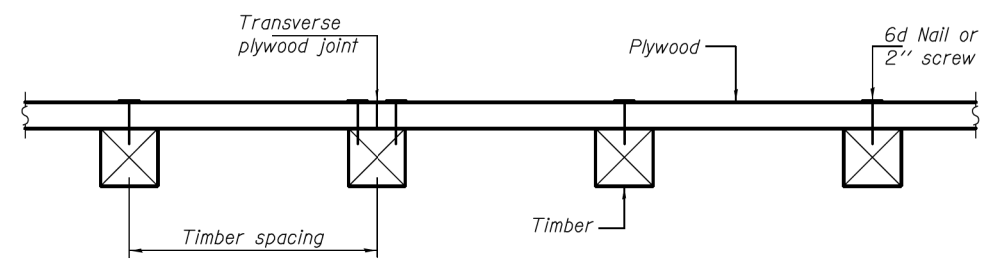
Notes: See special provision for Permanent Protective Shield System.
 Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.
 The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.
 The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.
 All timber shall be treated.
 Plywood shall be 5/8" rated Exterior type plywood by APA.
 Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.
 Transverse plywood joints shall be supported by timbers.
 When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.
 Design load = 200 psf.



PPC I-BEAMS AND BULB-T's



STEEL BEAMS



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

PPC I-BEAMS AND BULB-T's

BEAM	"A"
36" I-Beam	1 1/2"
42" I-Beam	1 1/2"
48" I-Beam	1 1/2"
54" I-Beam	1 5/8"
63" Bulb-T	3 3/8"
72" Bulb-T	3 3/8"

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	

SDATES \$TIMES

PPS-1

01-22-09

DESIGNED -	EXAMINED	DATE -
CHECKED -	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED	REVISED
CHECKED -	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PERMANENT PROTECTIVE SHIELD

SHEET NO. OF SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R565W	KANE	64	29A
CONTRACT NO.			62K71	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED			RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED			MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

TS SHT NO. 1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

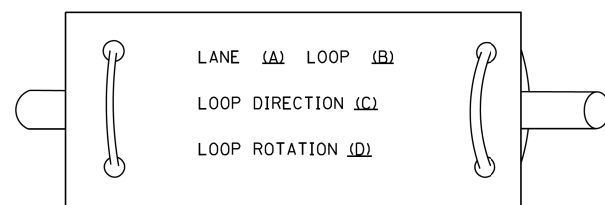
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO. 62K71		
ILLINOIS FED. AID PROJECT				

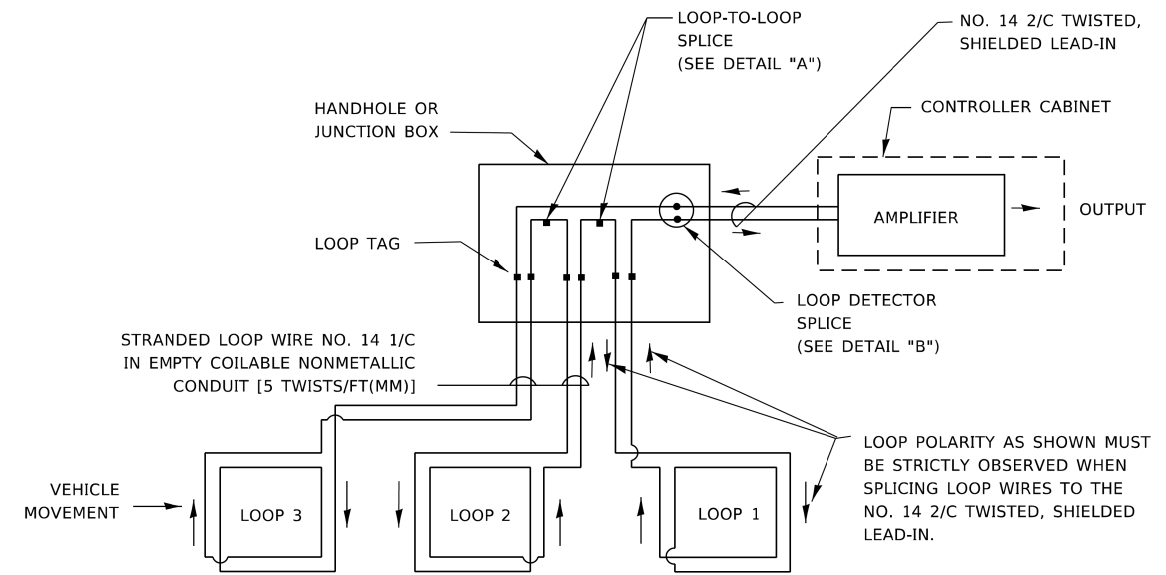
LOOP DETECTOR NOTES

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 DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

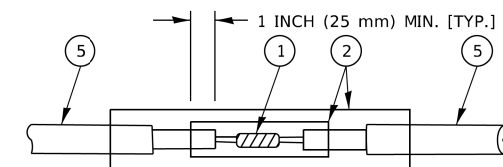


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

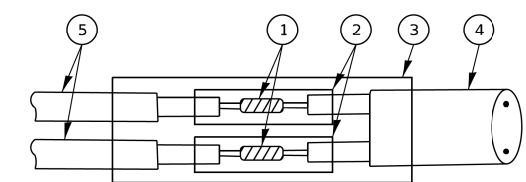


DETECTOR LOOP WIRING SCHEMATIC

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

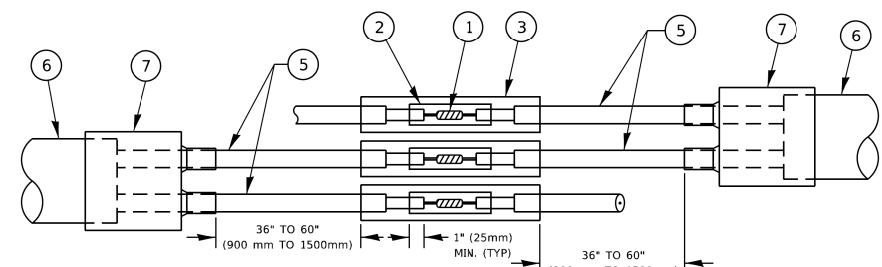


DETAIL "A"
LOOP-TO-LOOP SPLICE

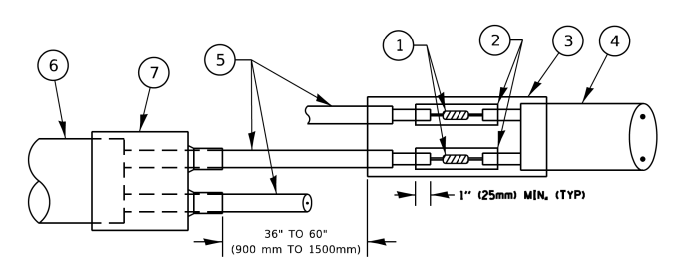


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

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. PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

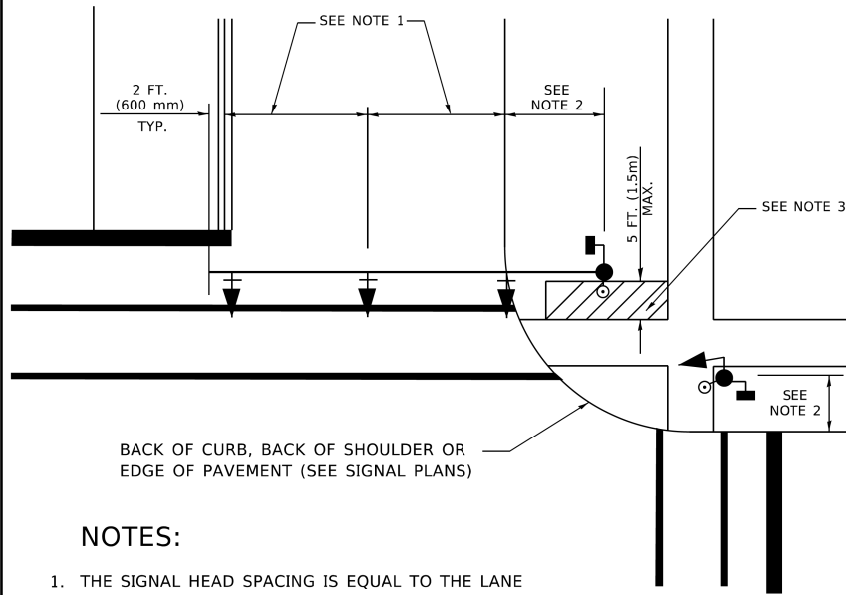
DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.U. RTE. 3887	SECTION 2019-198-R5&SW	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 31
TS-05		CONTRACT NO. 62K71		
ILLINOIS		FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

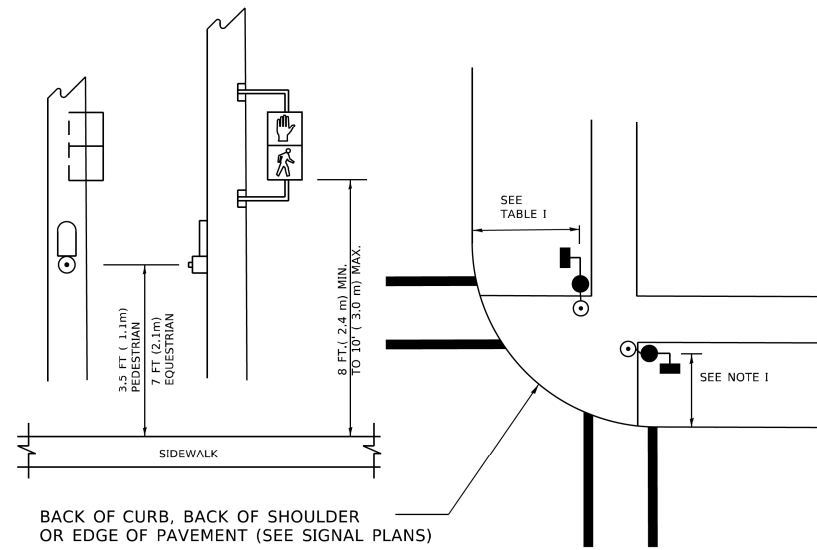
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

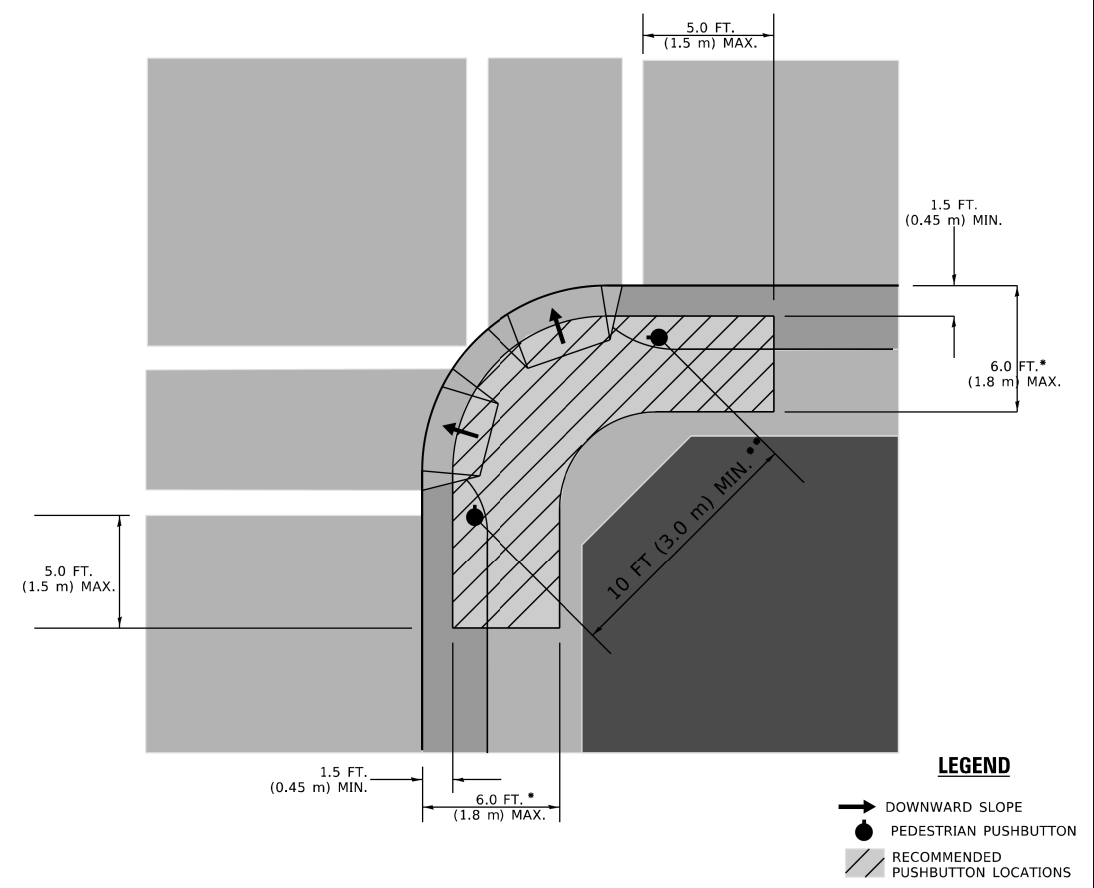
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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 (0.5m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.5m), 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.

TS SHT NO. 3

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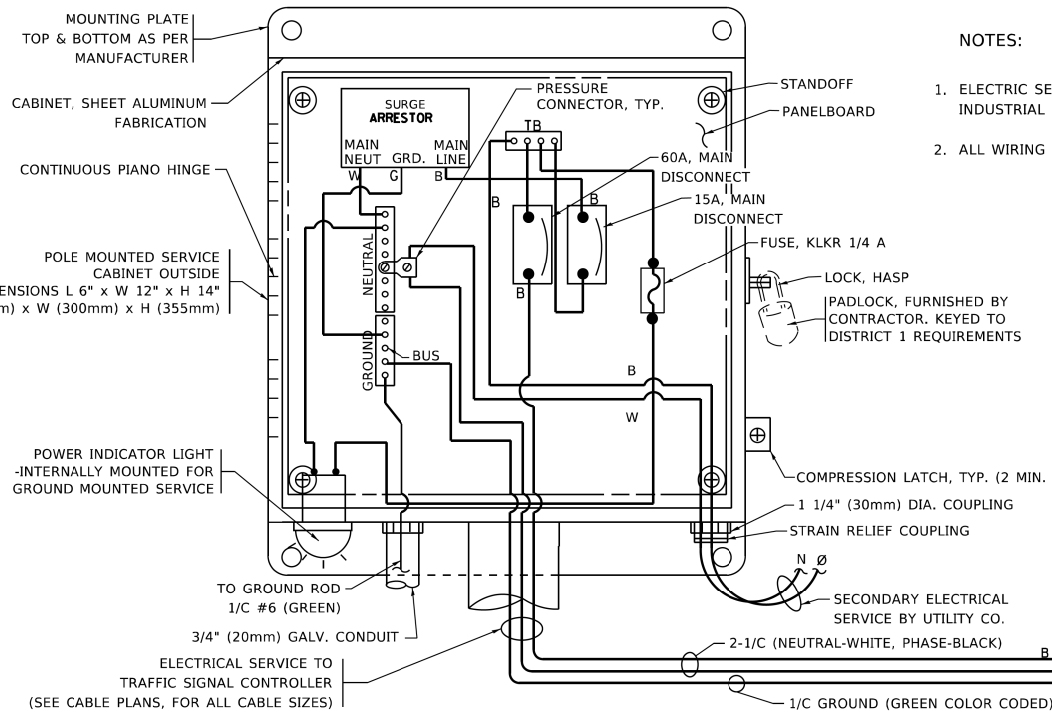
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

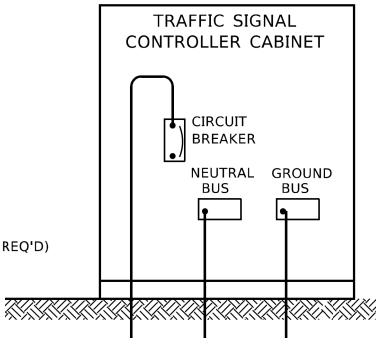
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

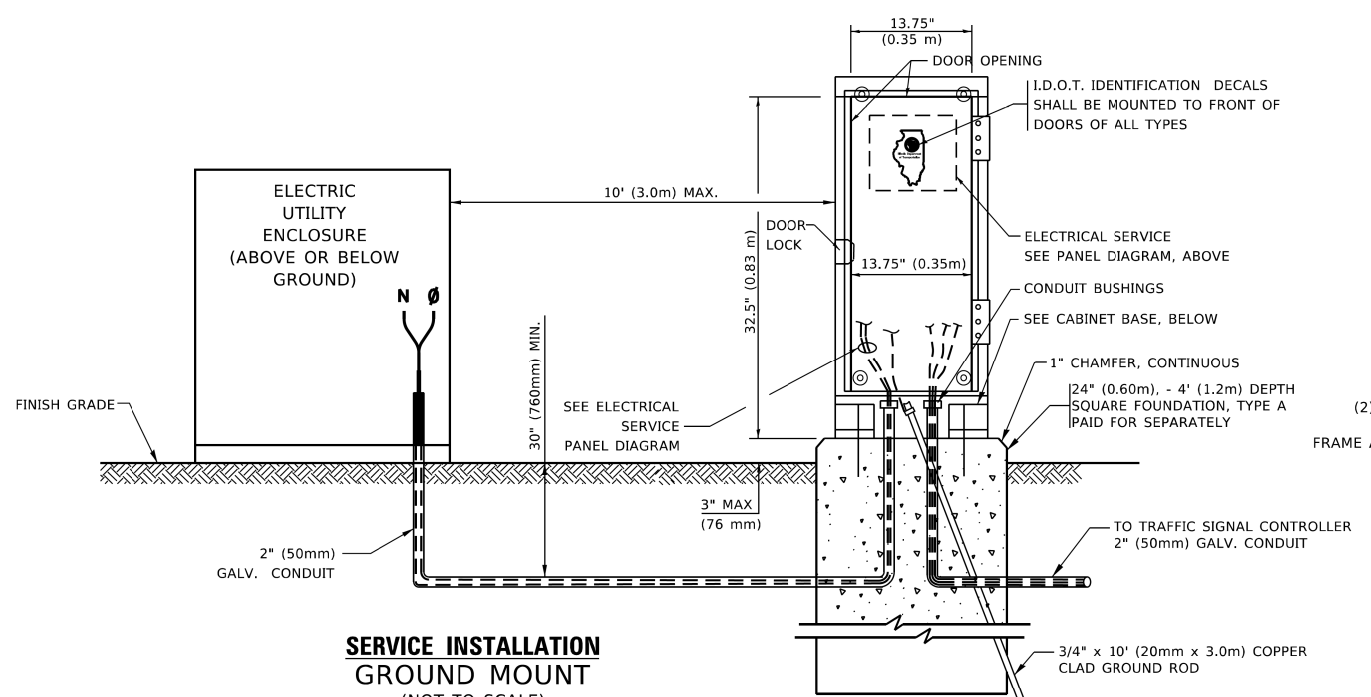
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R56SW	KANE	64	32
TS-05		CONTRACT NO. 62K71		
ILLINOIS FED. AID PROJECT				



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

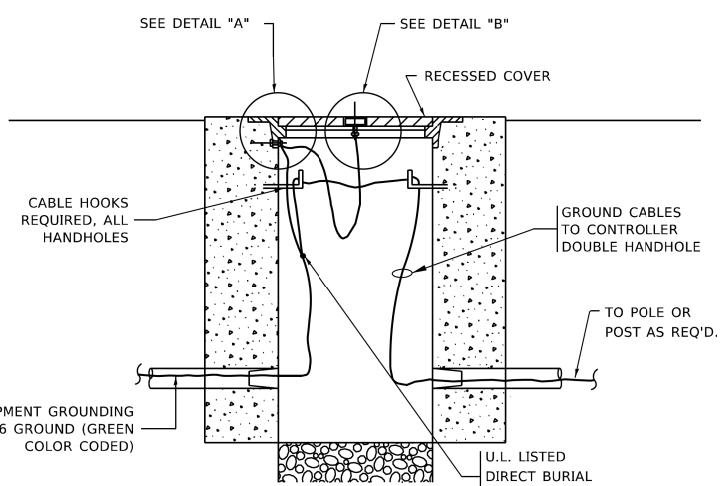
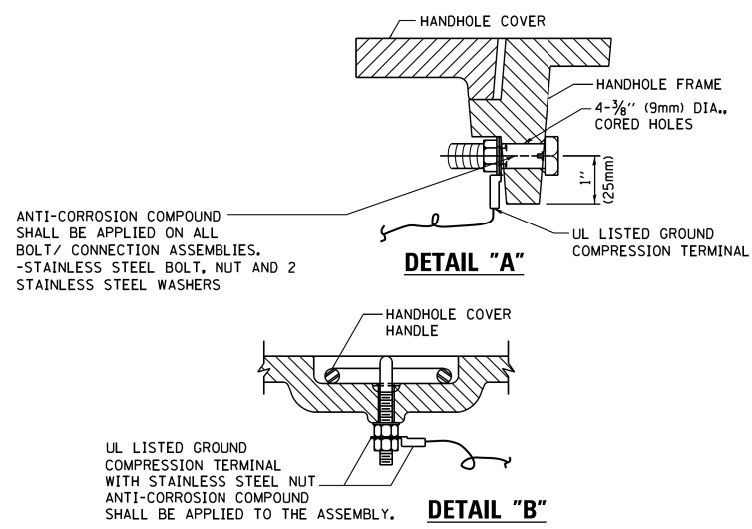
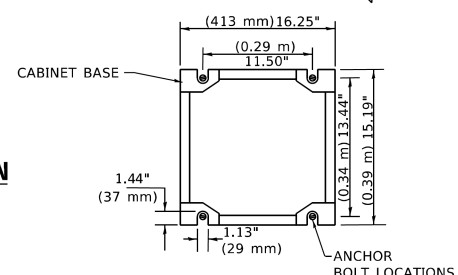


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

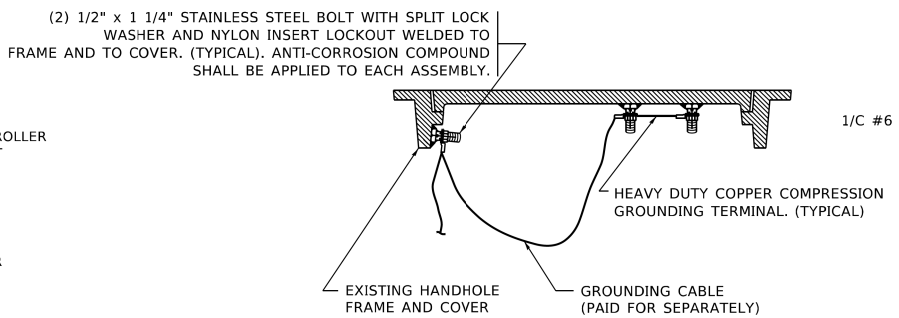


SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

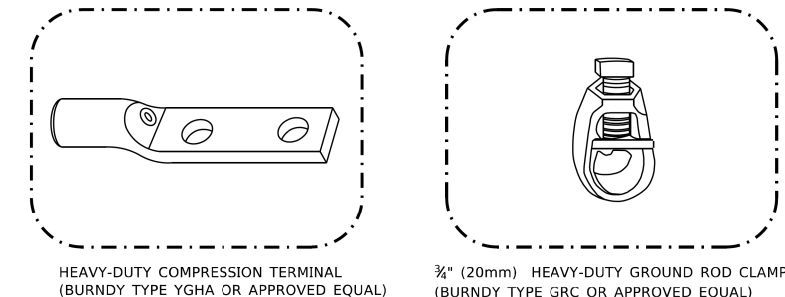
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



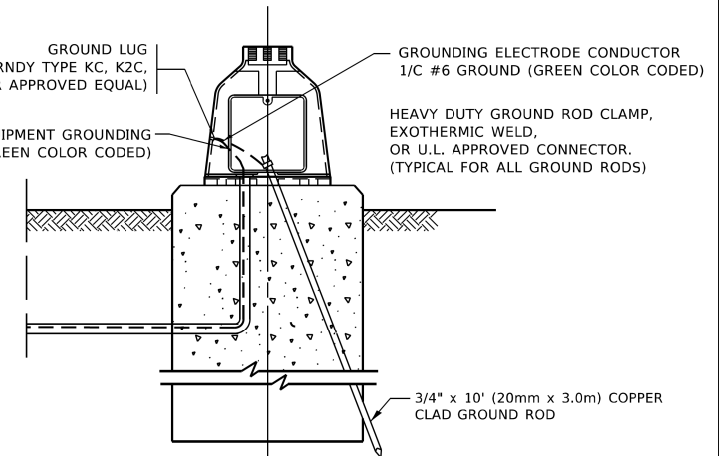
HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



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



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



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

TS SHT NO. 4

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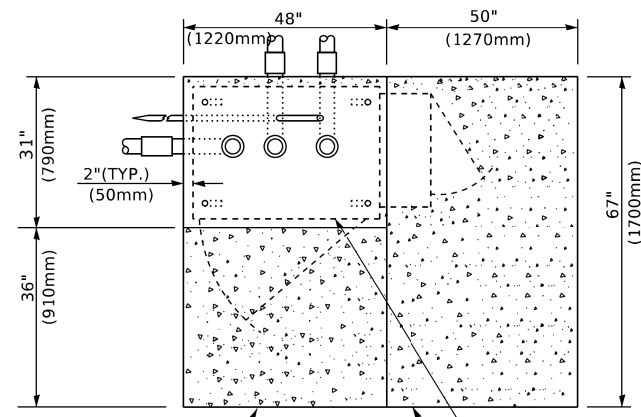
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

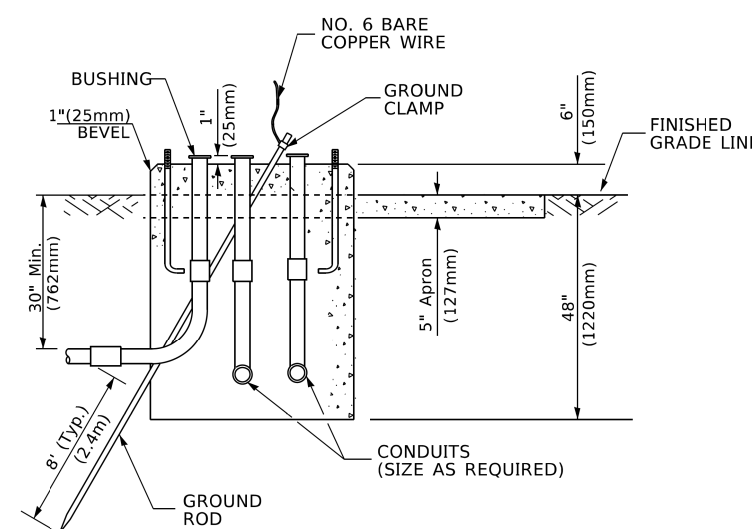
DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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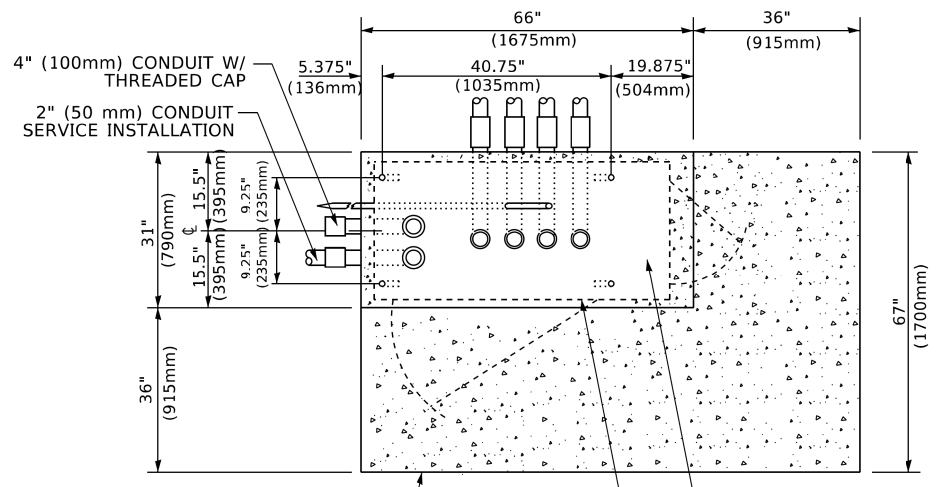
F.A.U. RTE. 3887	SECTION 2019-198-R56SW	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 33
TS-05		CONTRACT NO. 62K71		
ILLINOIS FED. AID PROJECT				



TOP VIEW

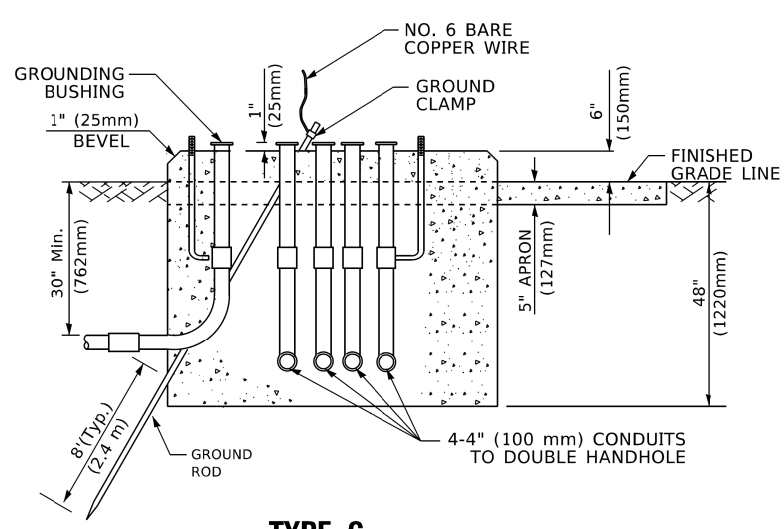


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

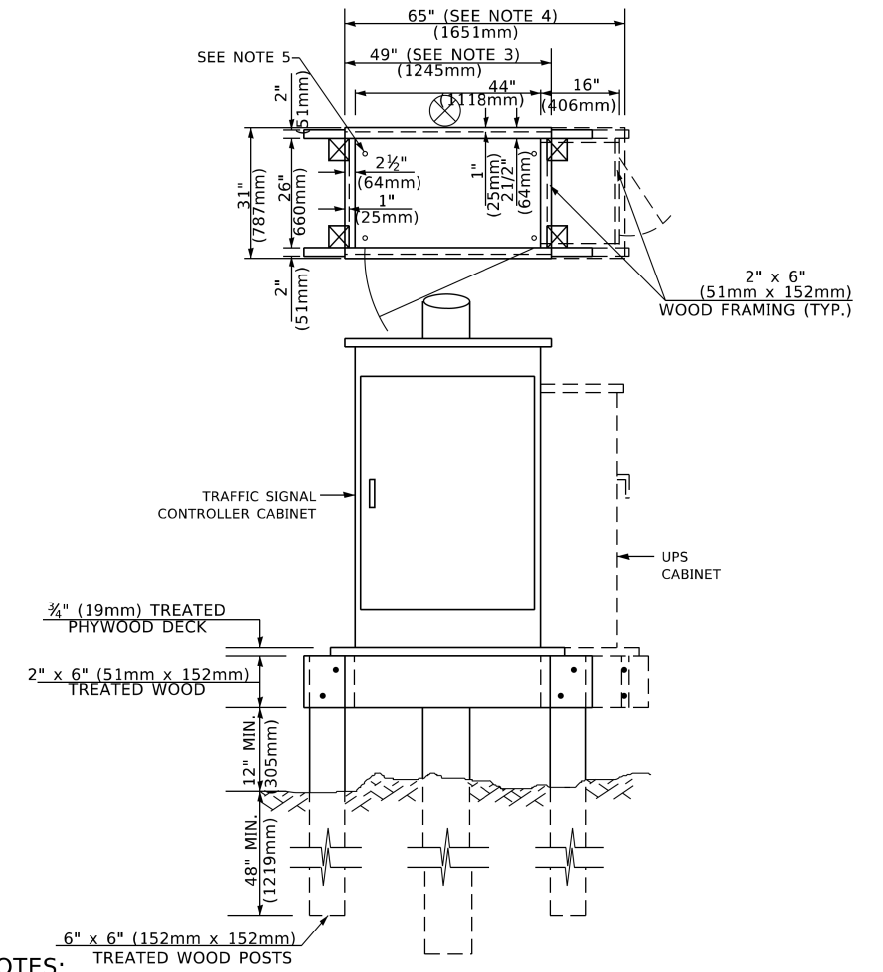


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL
BE HIGHER THAN TOP OF
DOUBLE HANDHOLE



**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)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 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

TS SHT NO. 5

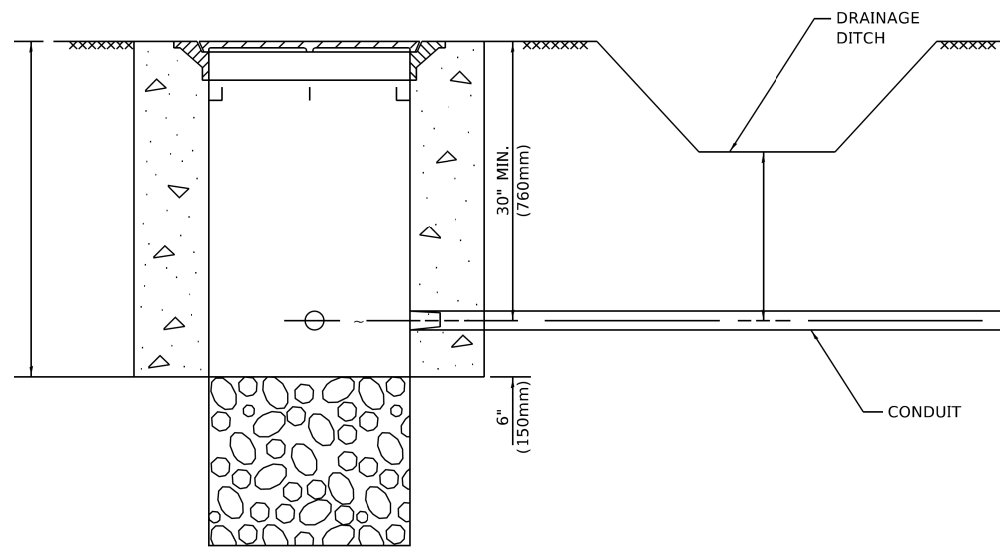
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 5 OF 7 SHEETS	STA. TO STA.	

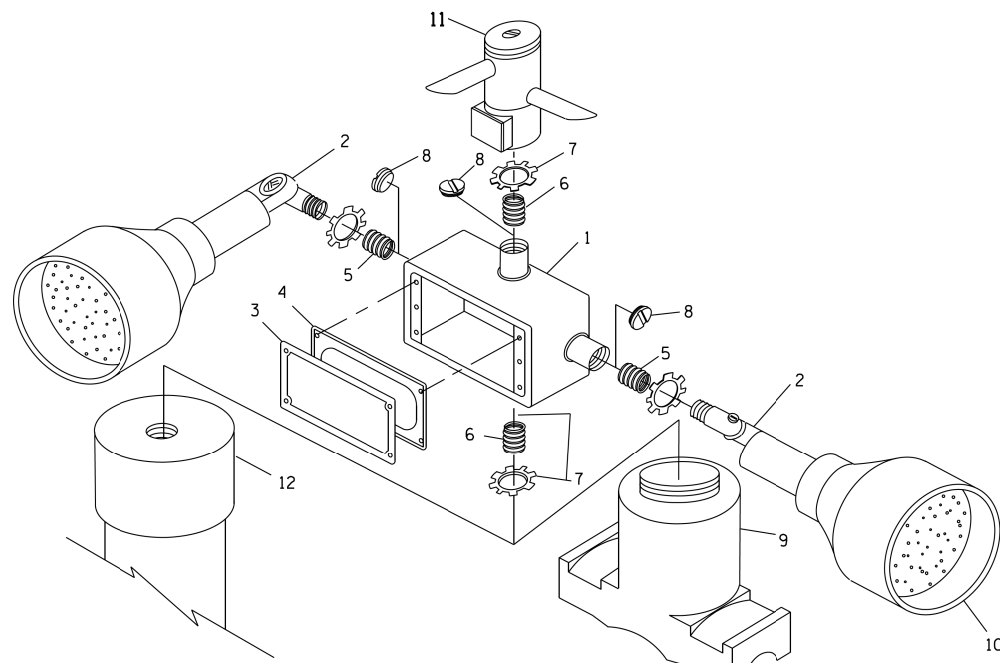
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	34
TS-05		CONTRACT NO. 62K71		
ILLINOIS / FED. AID PROJECT				



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.

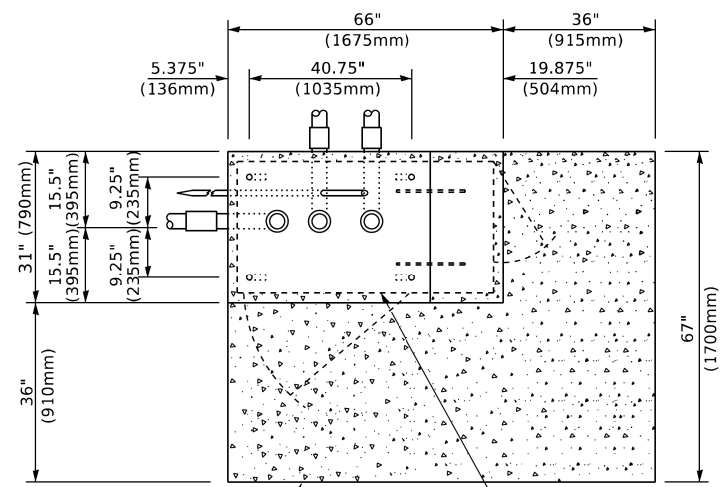
HANDHOLE WITH MINIMUM CONDUIT DEPTH
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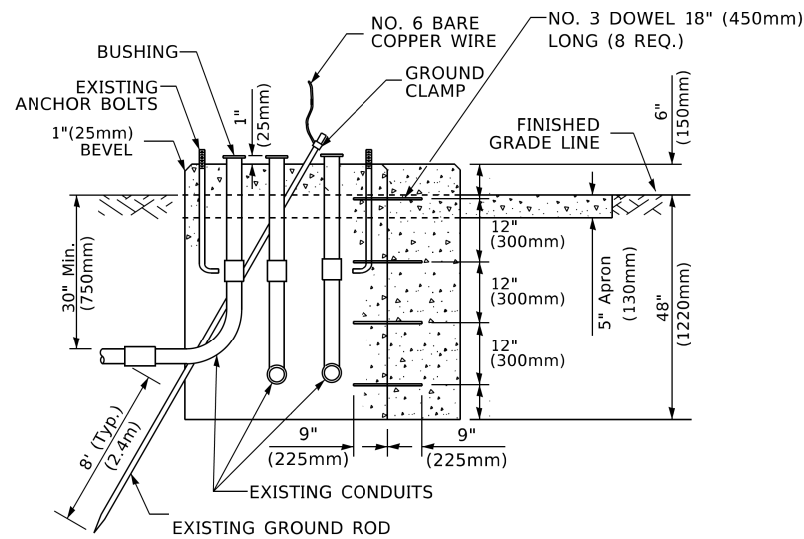
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

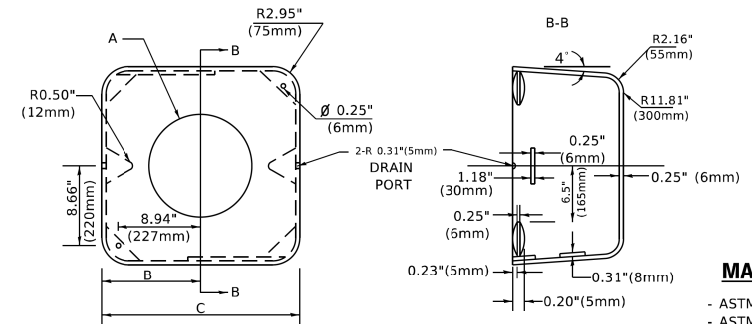


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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.



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

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

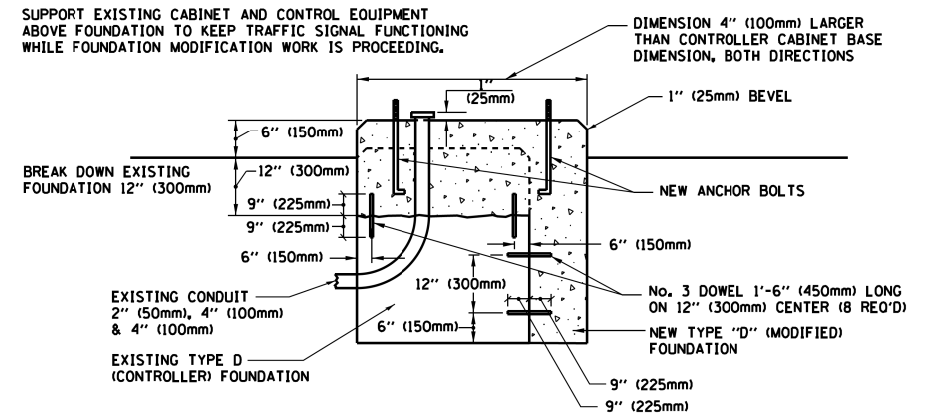
SHROUD

NOTES:

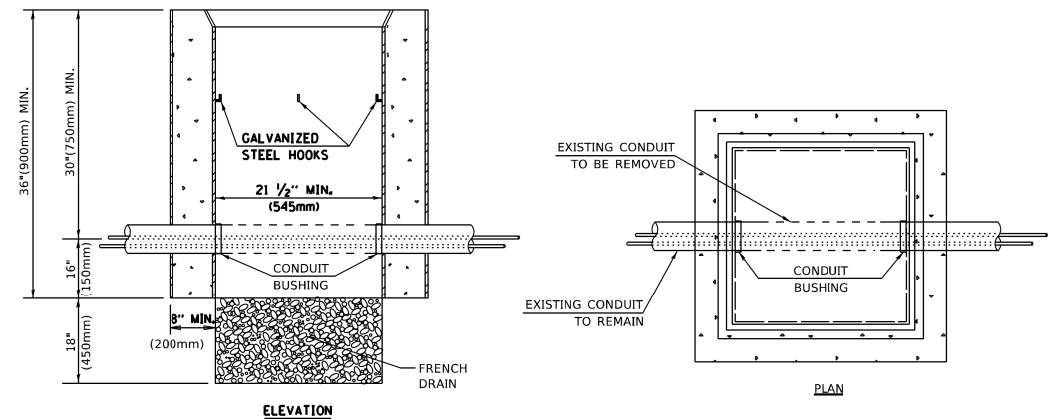
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

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

TS SHT NO. 6

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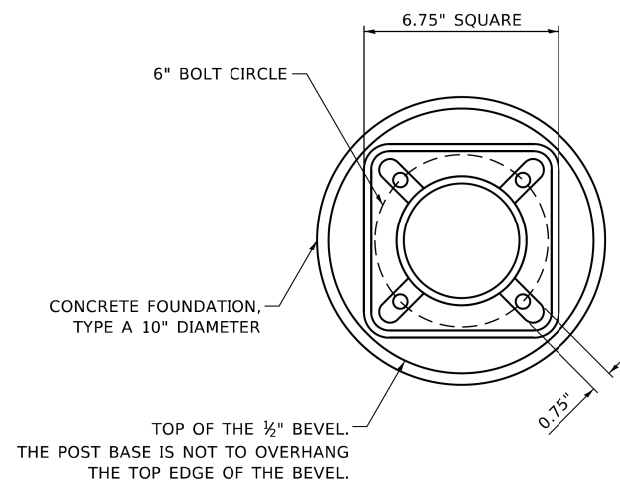
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

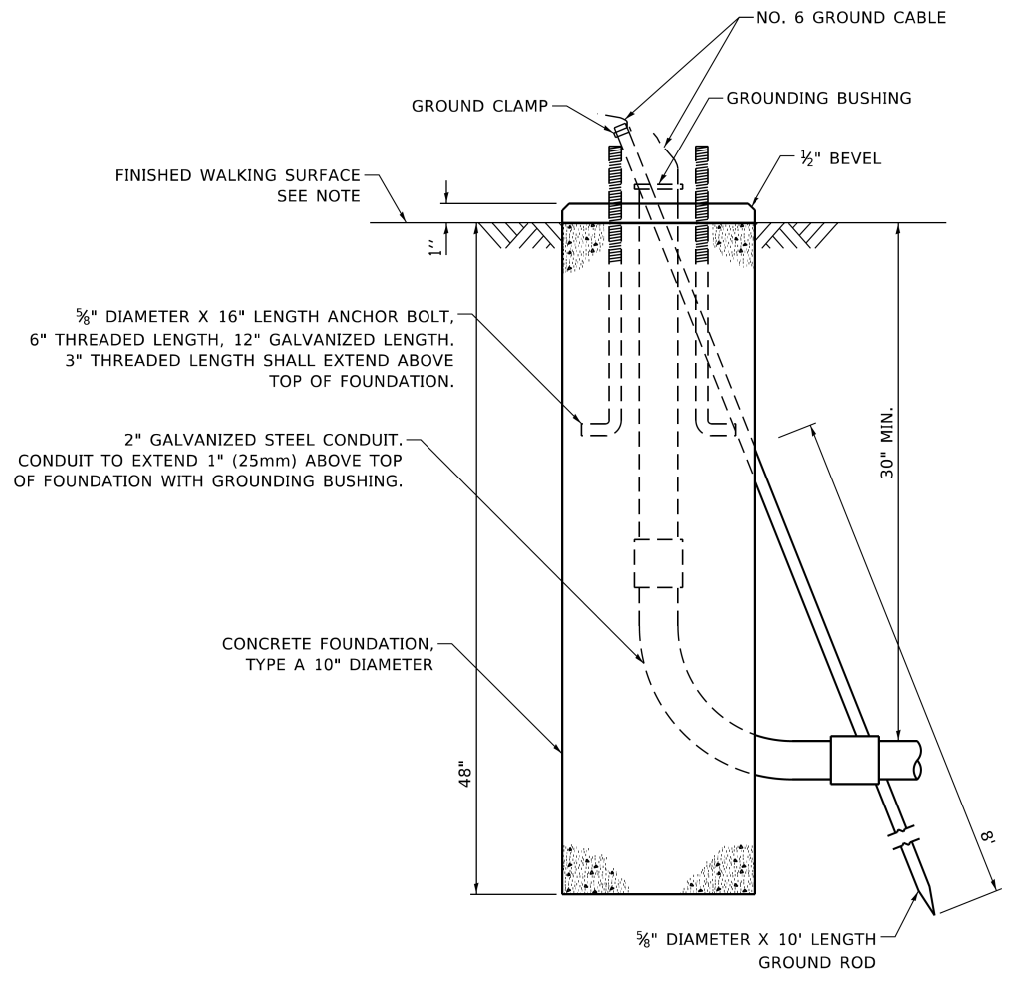
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TS-05		CONTRACT NO. 62K71		
ILLINOIS FED. AID PROJECT				

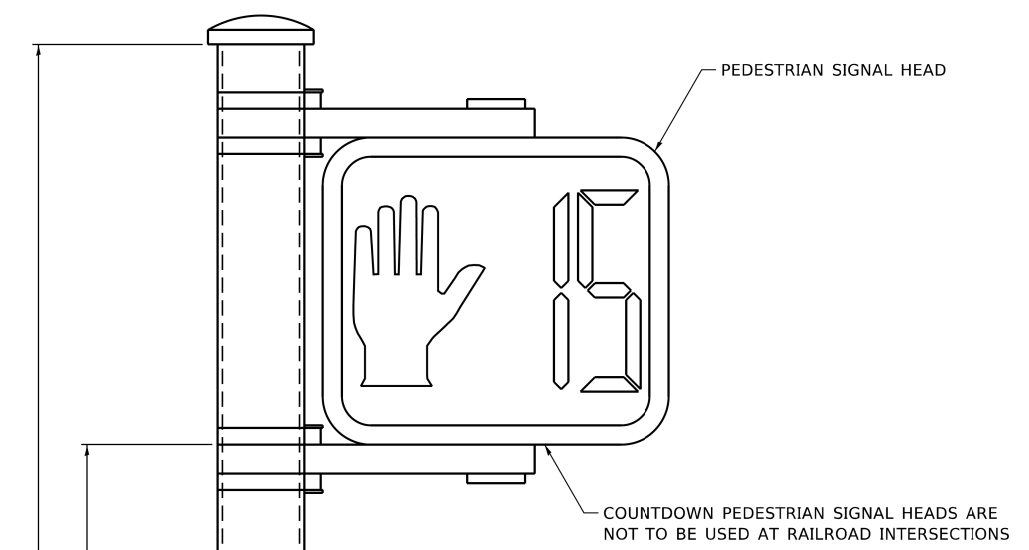


BOLT PATTERN

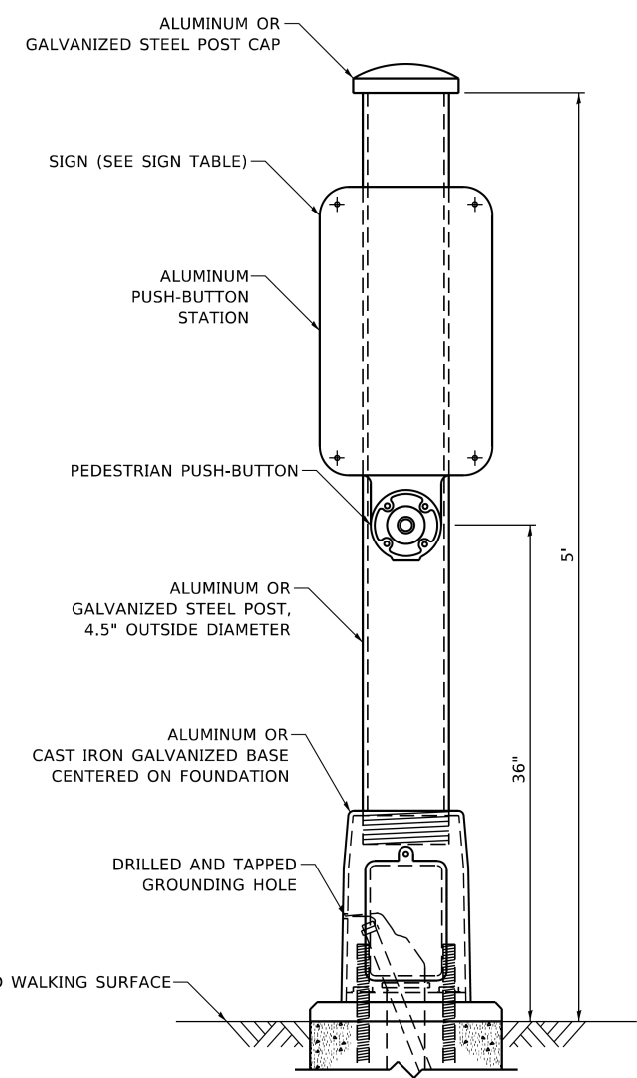
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



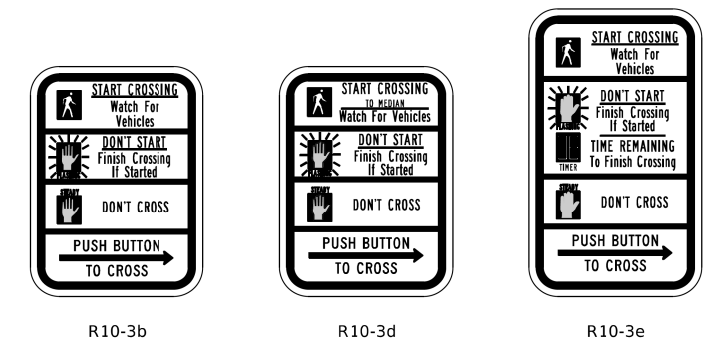
CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:
 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

TS SHT NO. 7

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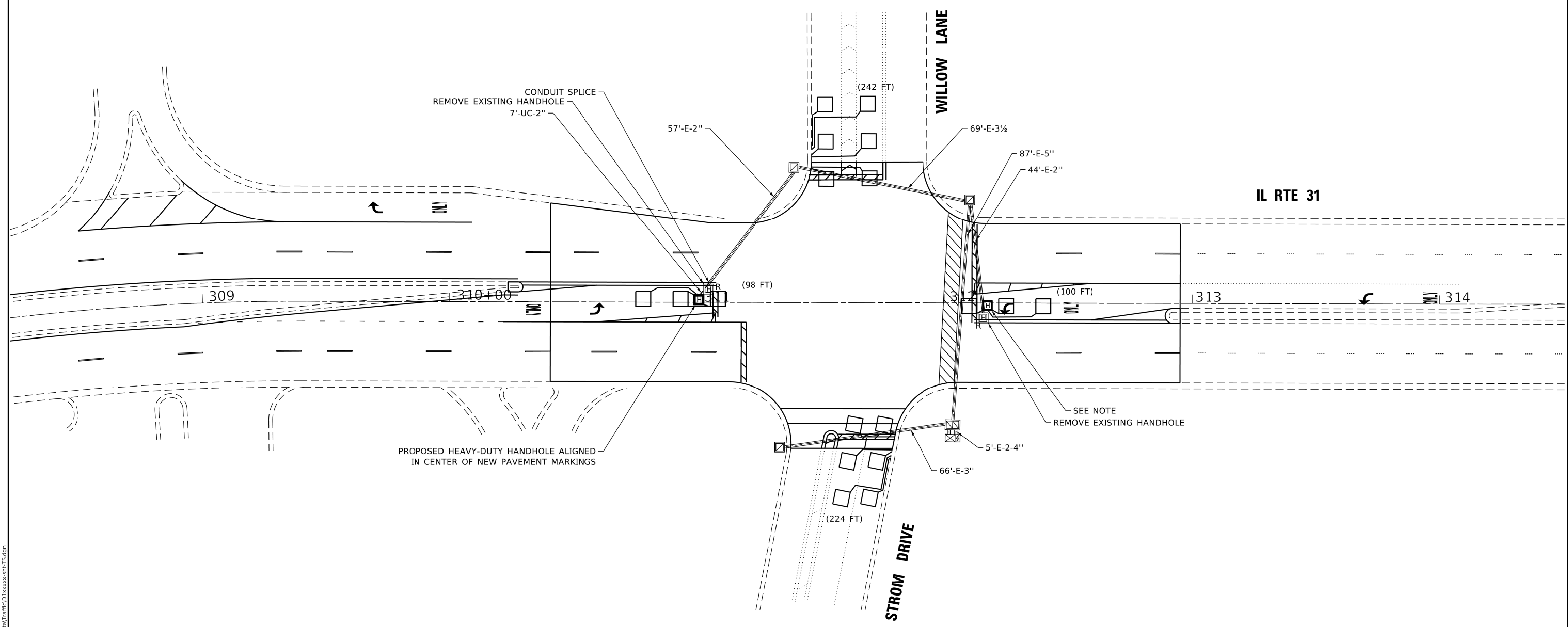
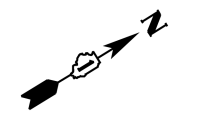
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE. 3887	SECTION 2019-198-R5&SW	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 36
TS-05		CONTRACT NO. 62K71		
ILLINOIS FED. AID PROJECT				



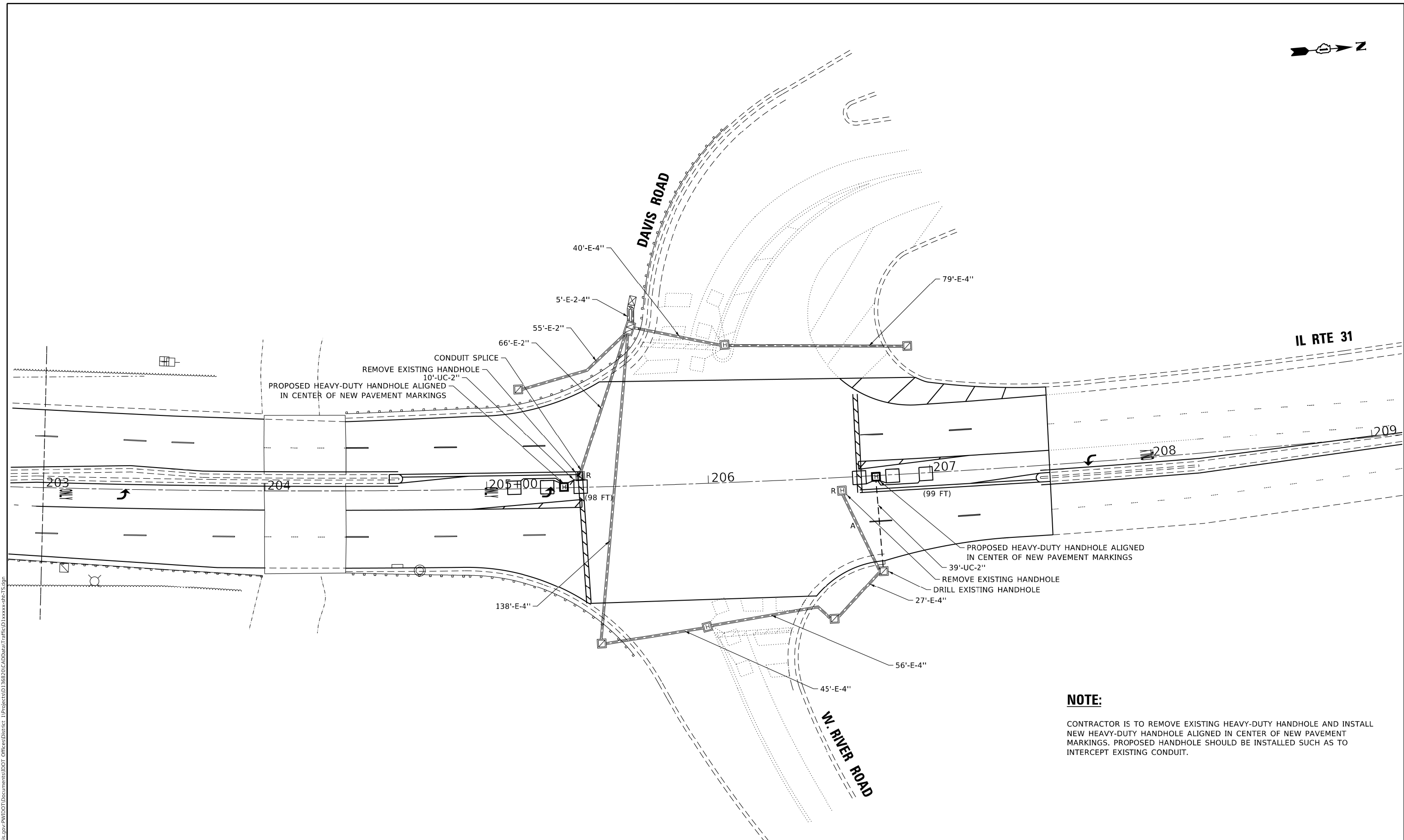
NOTE:
 CONTRACTOR IS TO REMOVE EXISTING HEAVY-DUTY HANDHOLE AND INSTALL NEW HEAVY-DUTY HANDHOLE ALIGNED IN CENTER OF NEW PAVEMENT MARKINGS. PROPOSED HANDHOLE SHOULD BE INSTALLED SUCH AS TO INTERCEPT EXISTING CONDUIT.

TS SHT NO. 9

MODEL: Default
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TS 14900

USER NAME = kobykaka	DESIGNED - KK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT AND HANDHOLE RELOCATION IL ROUTE 31 AT WILLOW LANE / STROM DRIVE				F.A.U. RTE. 3887	SECTION 2019-198-R5&SW	COUNTY KANE	TOTAL SHEETS 64	SHEET NO. 38
PLOT SCALE = 40.0204" / ft.	CHECKED - LP	REVISED -						CONTRACT NO. 62K71				ILLINOIS FED. AID PROJECT
PLOT DATE = 3/23/2020	DATE - 03-19-2020	REVISED -		SCALE:	SHEET	OF SHEETS	STA. TO STA.					



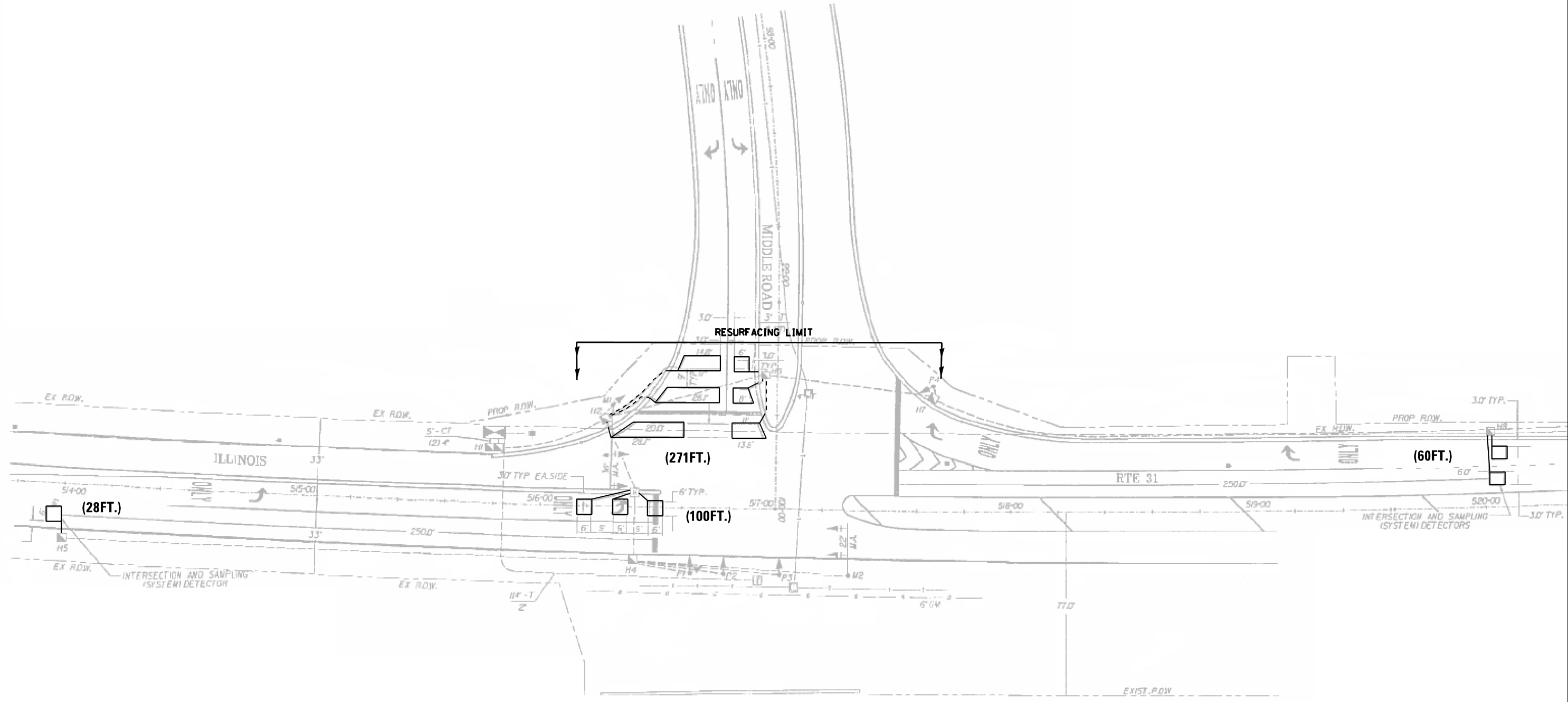
NOTE:
 CONTRACTOR IS TO REMOVE EXISTING HEAVY-DUTY HANDHOLE AND INSTALL NEW HEAVY-DUTY HANDHOLE ALIGNED IN CENTER OF NEW PAVEMENT MARKINGS. PROPOSED HANDHOLE SHOULD BE INSTALLED SUCH AS TO INTERCEPT EXISTING CONDUIT.

TS SHT NO. 11

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**TS 820
 EAGLE 5C**

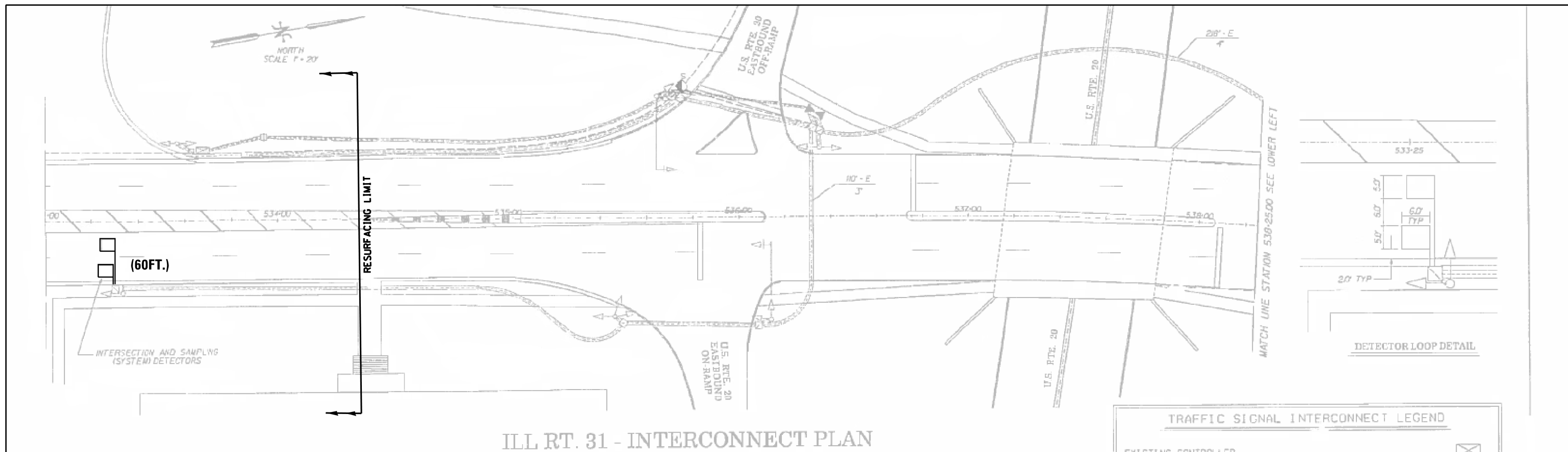
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SCALE:										SHEET		OF		SHEETS		STA.		TO		STA.					
																				ILLINOIS FED. AID PROJECT					



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	459	FOOT

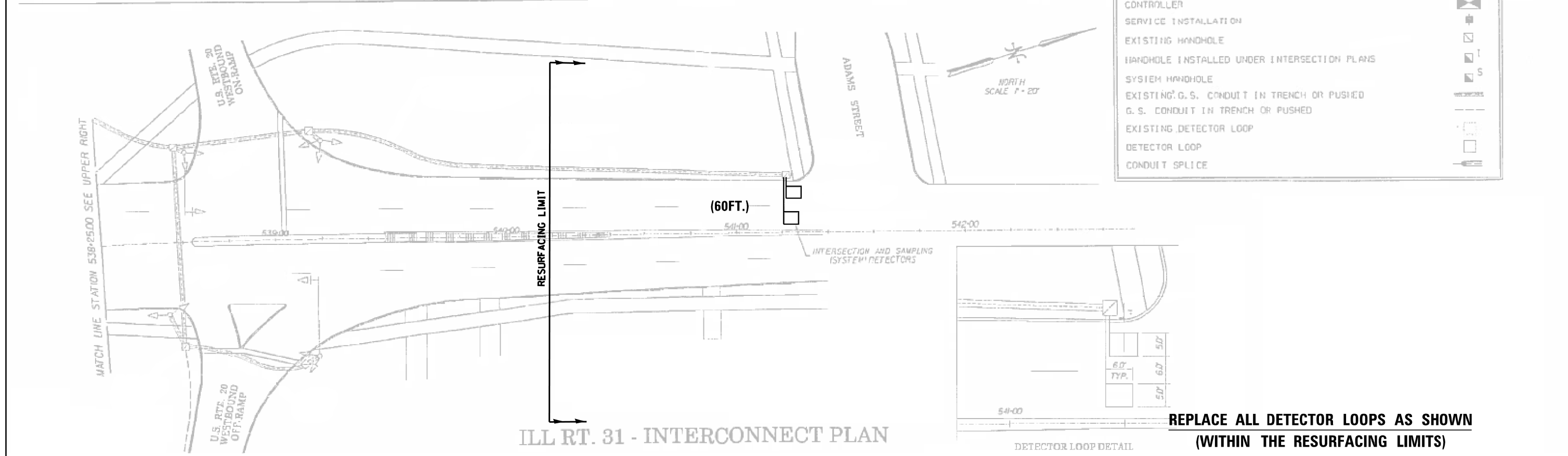
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C:\Users\mezag\Desktop\Detector Loops\2019\62K71 (IL 31-Kane)\CADD\TS 9700 -MIDDLE	DRAWN - G.M.	REVISIONS -	REVISED -			3887	2019-198-RS&SW	KANE	64	42	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - S.N.	REVISED -			CONTRACT NO. 62K71					
	PLOT DATE = 2/19/2020	DATE - 02/05/2020	REVISED -			ILLINOIS FED. AID PROJECT					



ILL RT. 31 - INTERCONNECT PLAN

TRAFFIC SIGNAL INTERCONNECT LEGEND

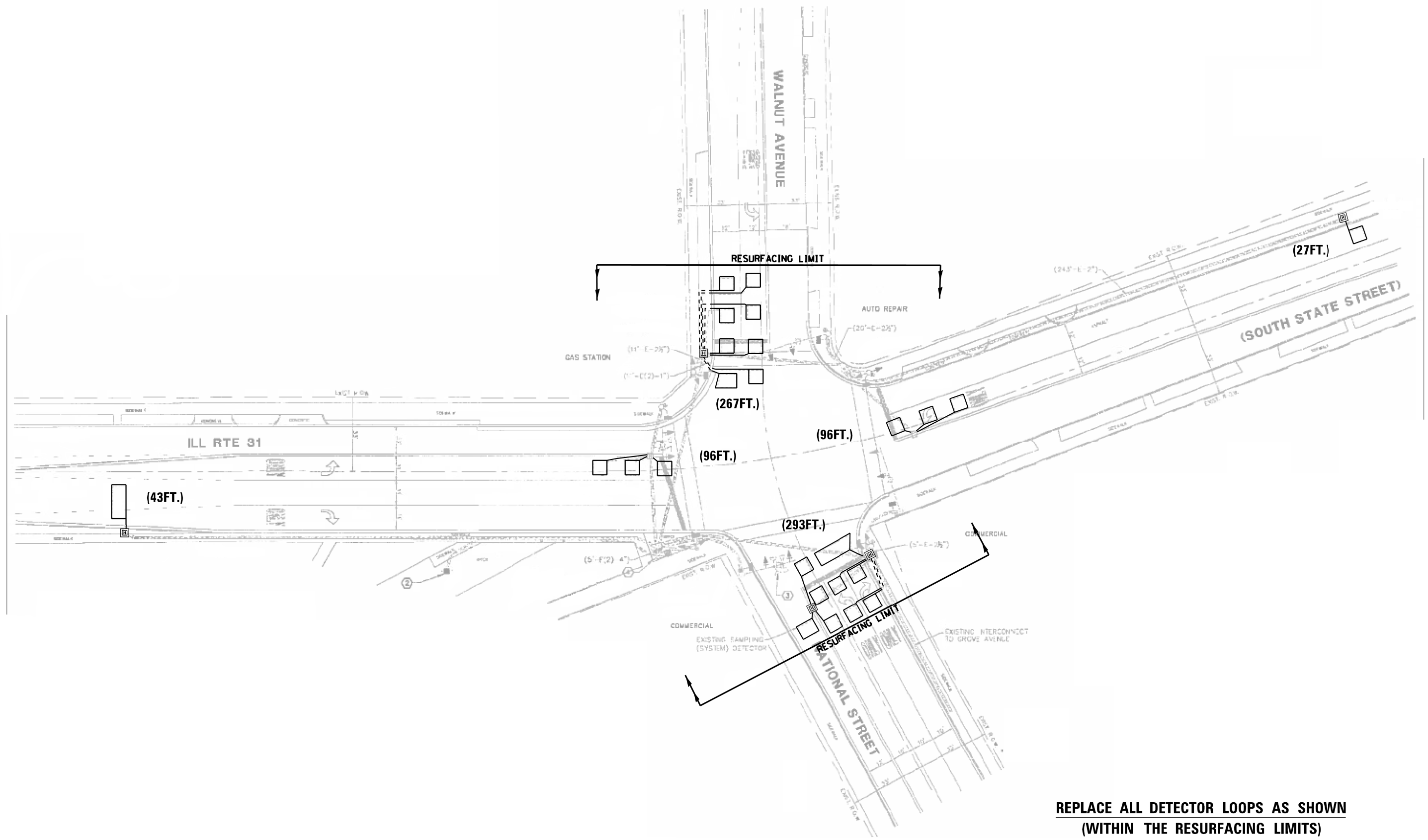
EXISTING CONTROLLER	
CONTROLLER	
SERVICE INSTALLATION	
EXISTING HANDHOLE	
HANDHOLE INSTALLED UNDER INTERSECTION PLANS	
SYSTEM HANDHOLE	
EXISTING G.S. CONDUIT IN TRENCH OR PUSHED	
G.S. CONDUIT IN TRENCH OR PUSHED	
EXISTING DETECTOR LOOP	
DETECTOR LOOP	
CONDUIT SPLICE	



ILL RT. 31 - INTERCONNECT PLAN

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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	120	FOOT



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	822	FOOT

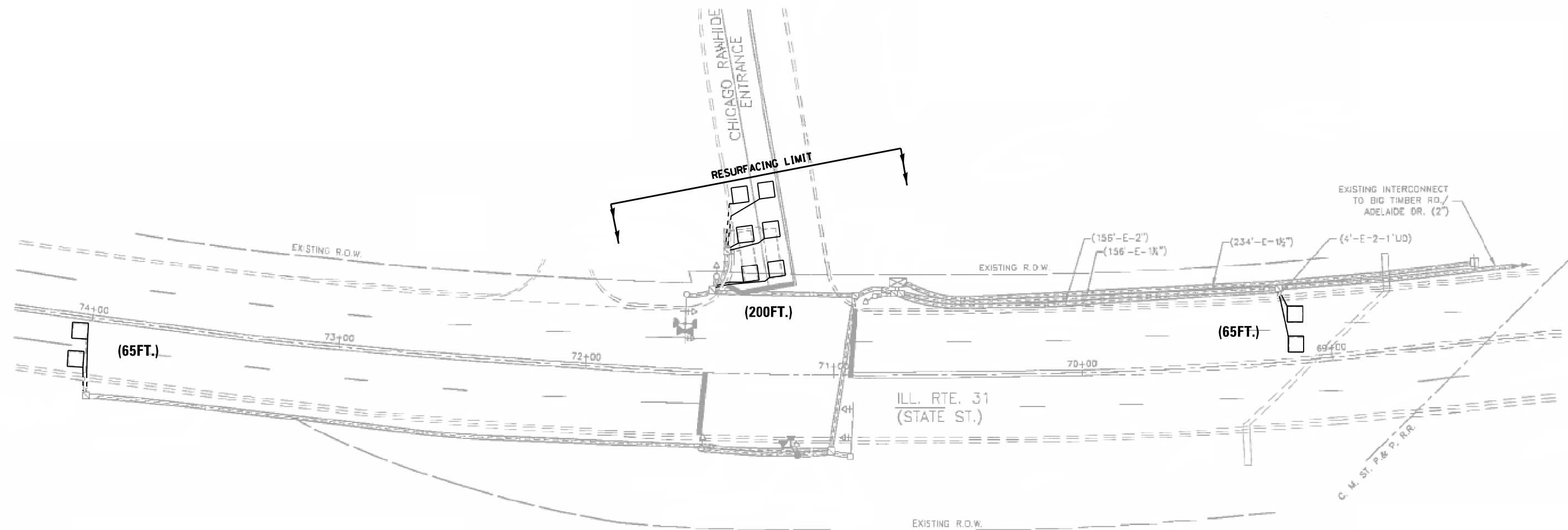
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Default	PLOT SCALE = 40.0000' / in.	DATE - 02/05/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
IL 31 (STATE ST.) AT WALNUT AVE.**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-RS&SW	KANE	64	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62K71	



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	330	FOOT

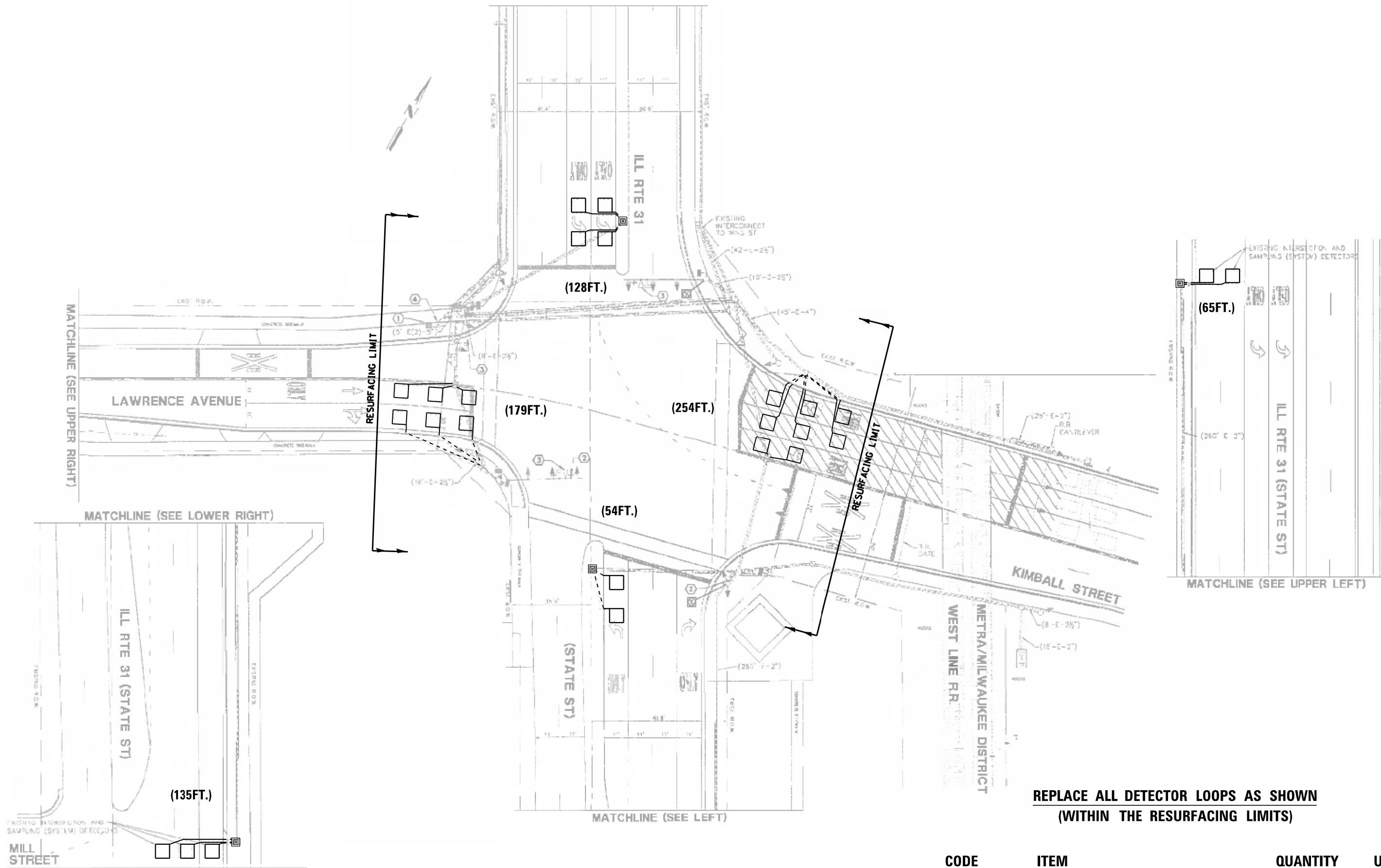
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Default	PLOT SCALE = 40,0000' / in.	DATE - 02/07/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
IL 31 (STATE ST.) AT CHICAGO RAWHIDE ENTRANCE**

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-RS&SW	KANE	64	45
			CONTRACT NO. 62K71	
ILLINOIS FED. AID PROJECT				



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	815	FOOT

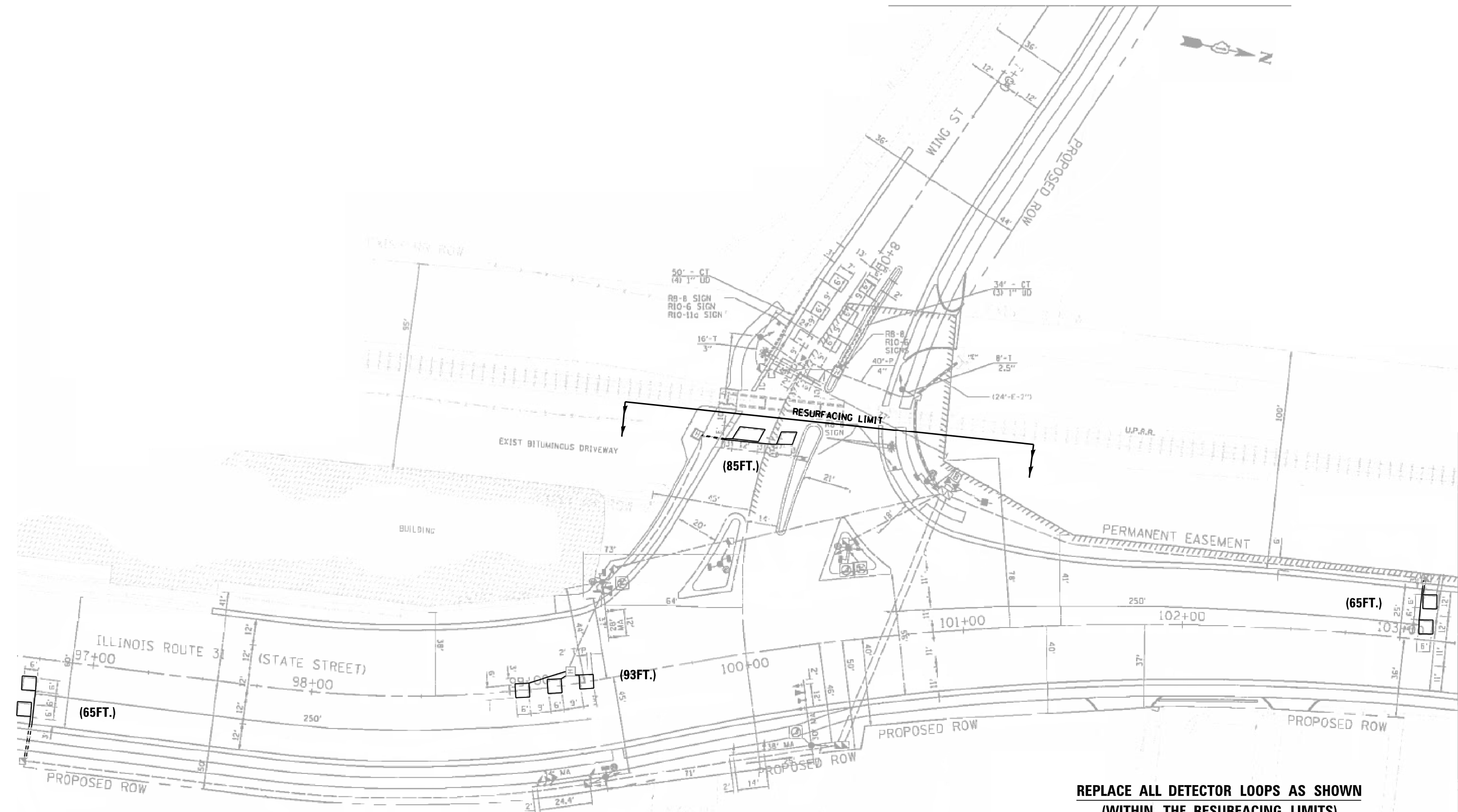
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Default	PLOT SCALE = 40.0000' / in.	DATE - 02/06/2020	REVISED -
	PLOT DATE = 2/20/2020		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
IL 31 (STATE ST.) AT LAWRENCE AVE.**

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

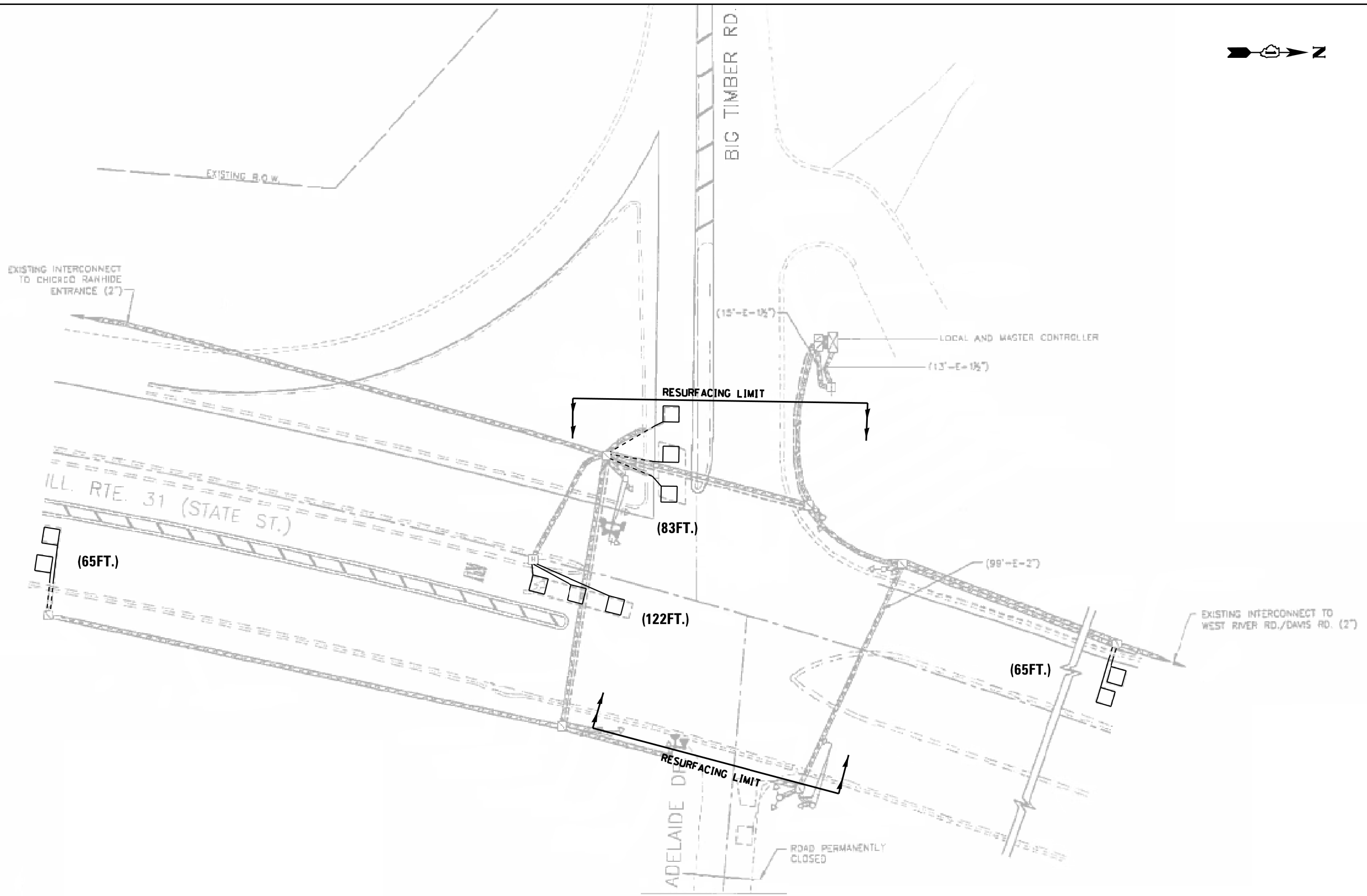
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-RS&SW	KANE	64	46
CONTRACT NO. 62K71			ILLINOIS FED. AID PROJECT	



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	308	FOOT

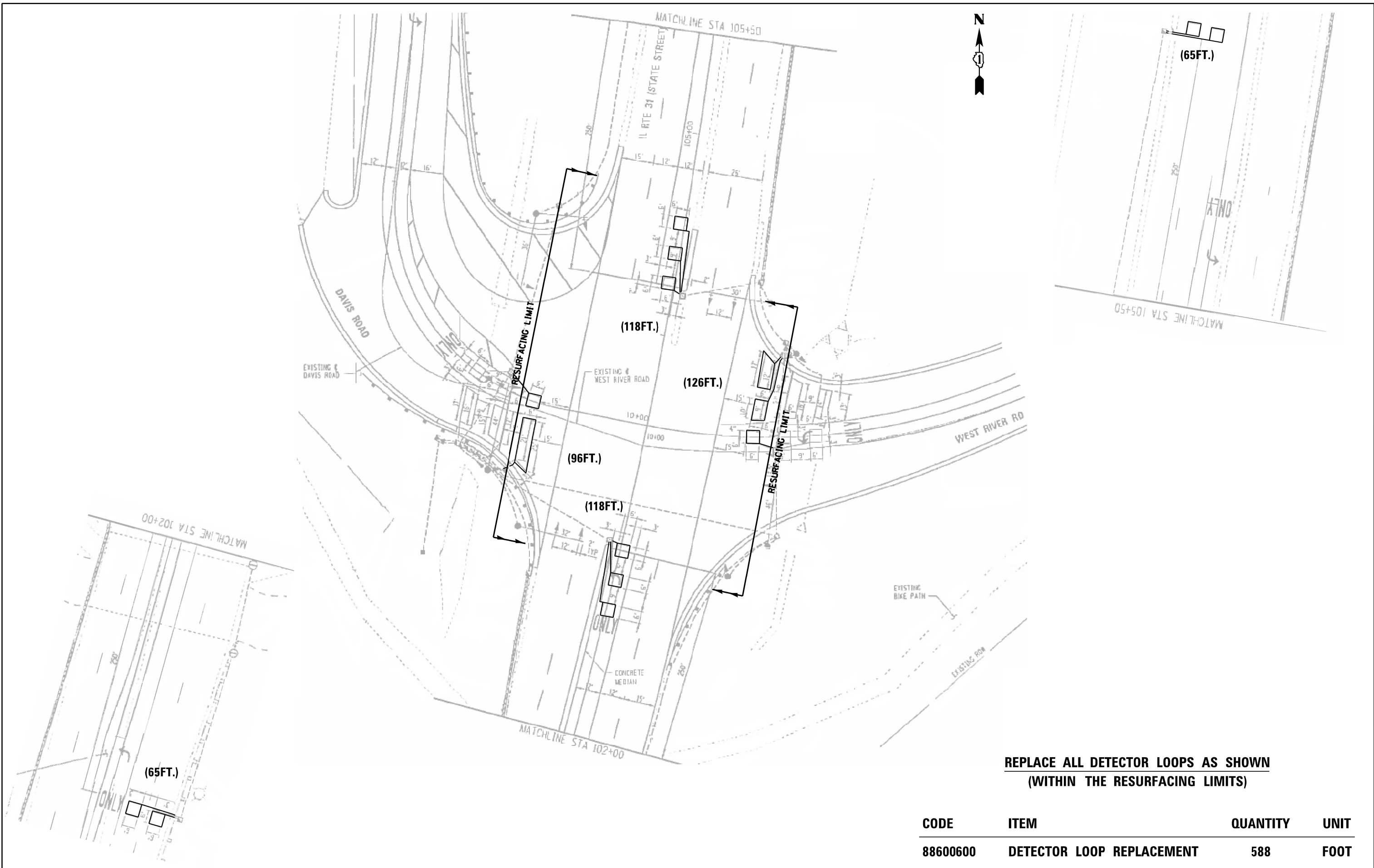
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	PLOT DATE = 2/20/2020	DATE - 02/04/2020	REVISED -			ILLINOIS FED. AID PROJECT					



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	335	FOOT

FILE NAME =	USER NAME = mezag	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN IL 31 (STATE ST.) AT BIG TIMBER RD.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT SCALE = 40.0000' / in.	DATE - 02/07/2020	REVISED -			SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT CONTRACT NO. 62K71			
	PLOT DATE = 2/20/2020										



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	588	FOOT

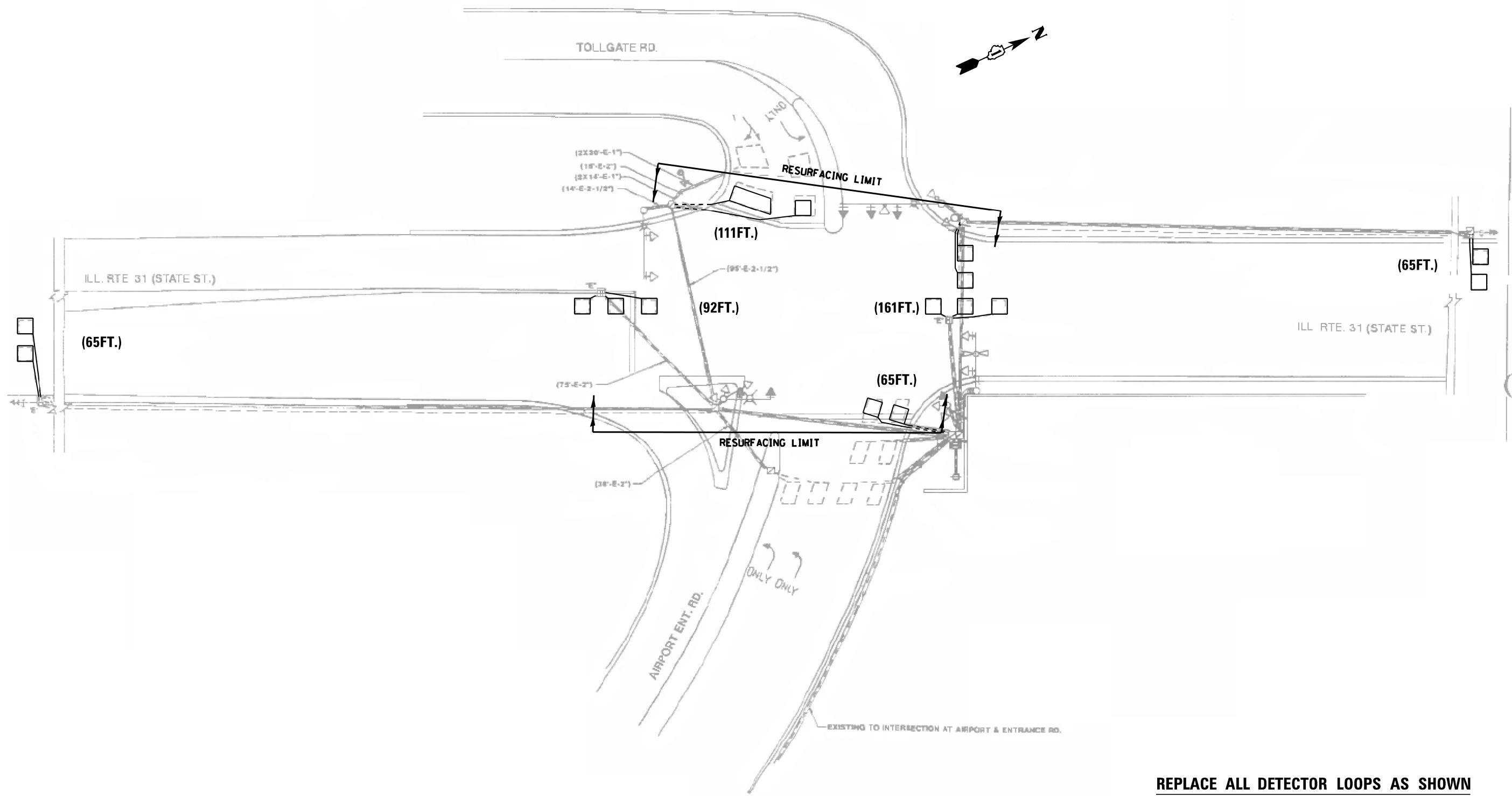
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Default	PLOT SCALE = 40.0000' / in.	CHECKED - S.N.	REVISED -
	PLOT DATE = 2/20/2020	DATE - 02/10/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
IL 31 (STATE ST.) AT W. RIVER RD.**

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

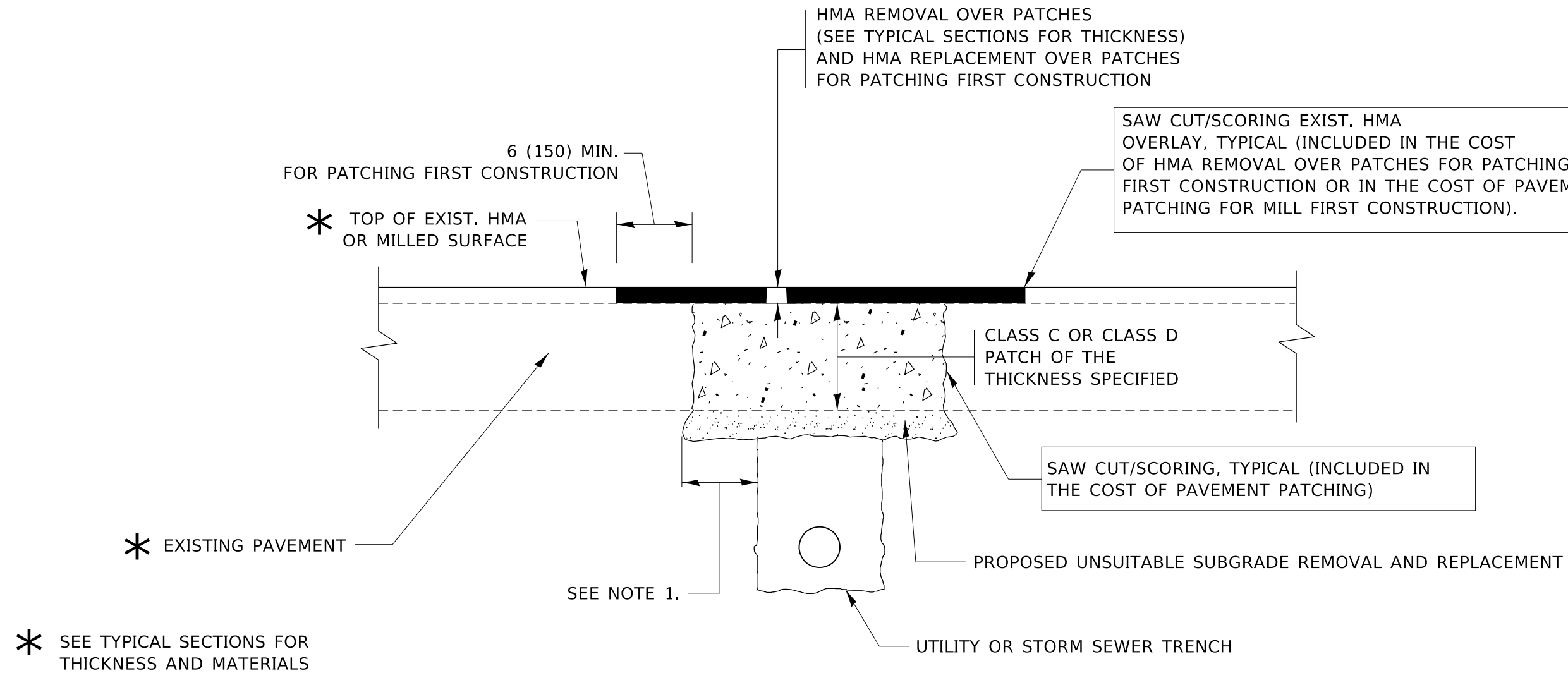
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-RS&SW	KANE	64	49
			CONTRACT NO. 62K71	
ILLINOIS FED. AID PROJECT				



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	559	FOOT

FILE NAME =	USER NAME = mezag	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN IL 31 (STATE ST.) AT TOLLGATE RD.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 2/20/2020		REVISED -			ILLINOIS FED. AID PROJECT					



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 4½ 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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USER NAME = khans	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 09-04-07
PLOT DATE = 4/3/2020	DATE - 10-25-94	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	52
BD400-04 (BD-22)			CONTRACT NO. 62K71	
ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE 2)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE 2)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

¼" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE 1).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

PROPOSED ¾" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

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

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

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

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

NOTE:

- SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED.
- CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

BASIS OF PAYMENT

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

MODEL: Default
FILE: h:\m\p\pub\hanscom.d\at\illinois.gov\p\w\DOT\Documents\DOT_Offices\District_1\Projects\136820\CADD\Drawings\Design\DES-54.dgn

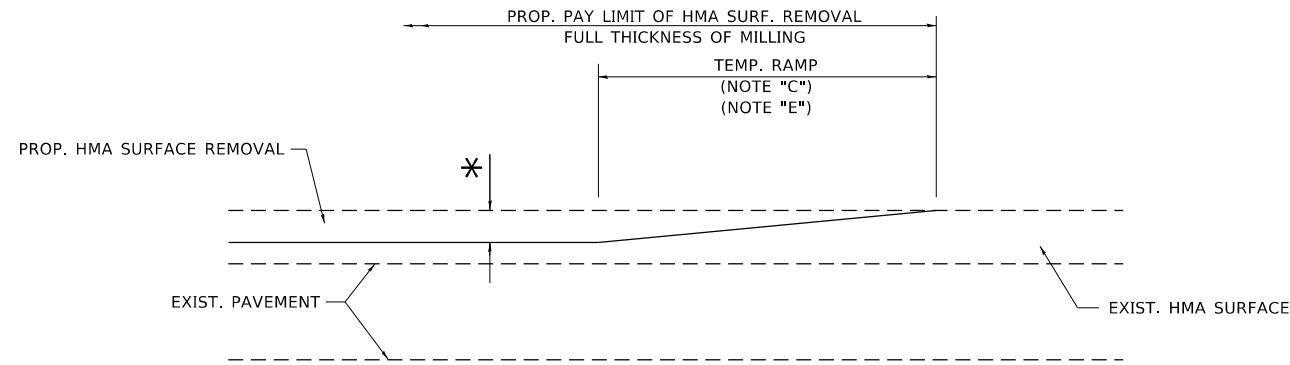
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	DRAWN -	REVISED - A. ABBAS 03-21-97
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PLOT DATE = 4/3/2020	DATE - 03-11-94	REVISED - R. BORO 12-15-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

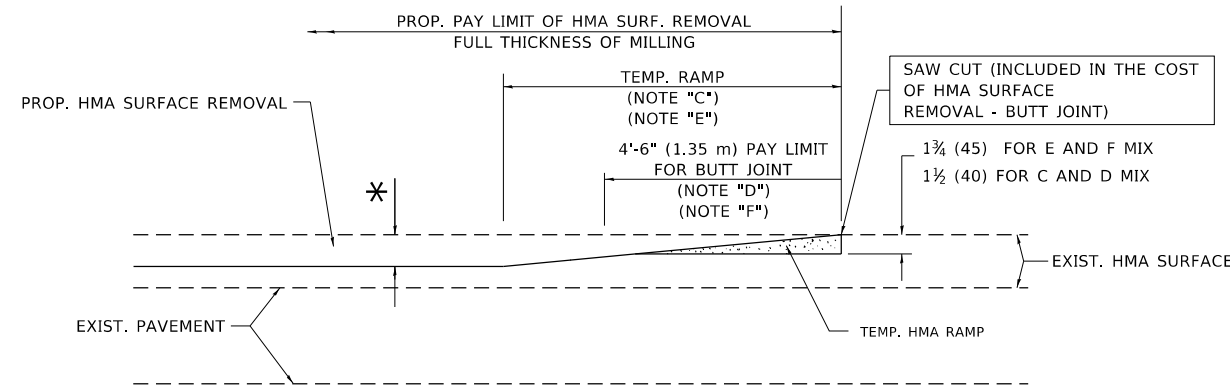
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	53
BD600-06 (BD-24)			CONTRACT NO. 62K71	
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

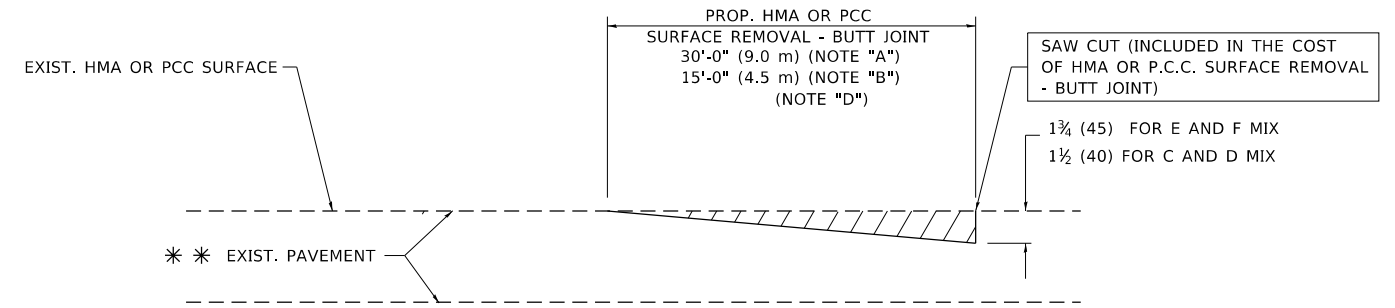


HMA CONSTRUCTED TEMPORARY RAMP

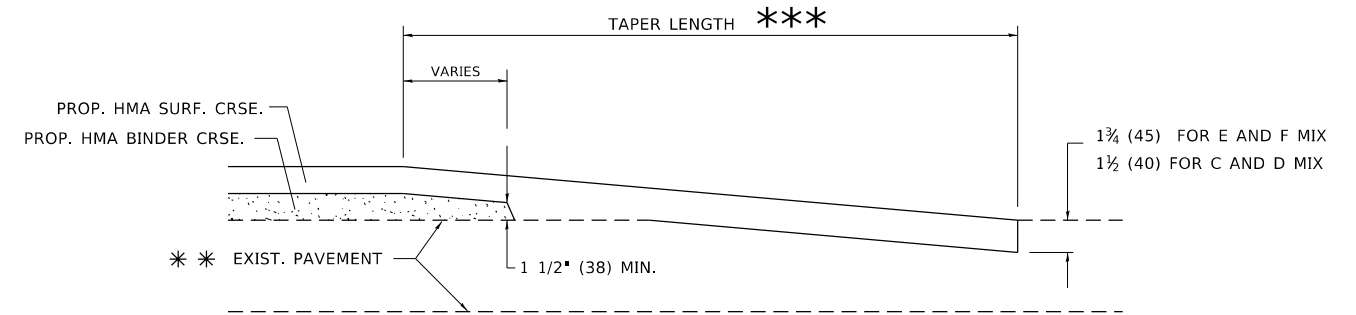
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

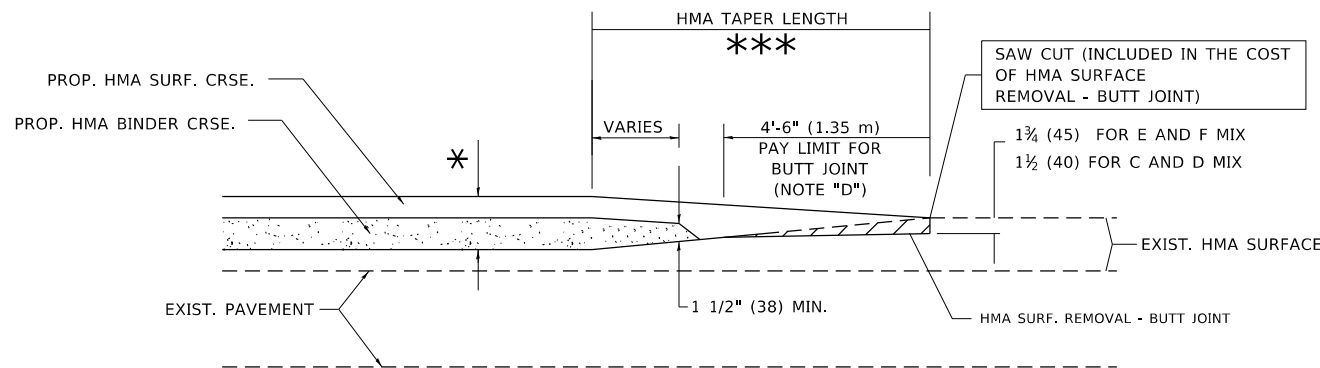
NOTES

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

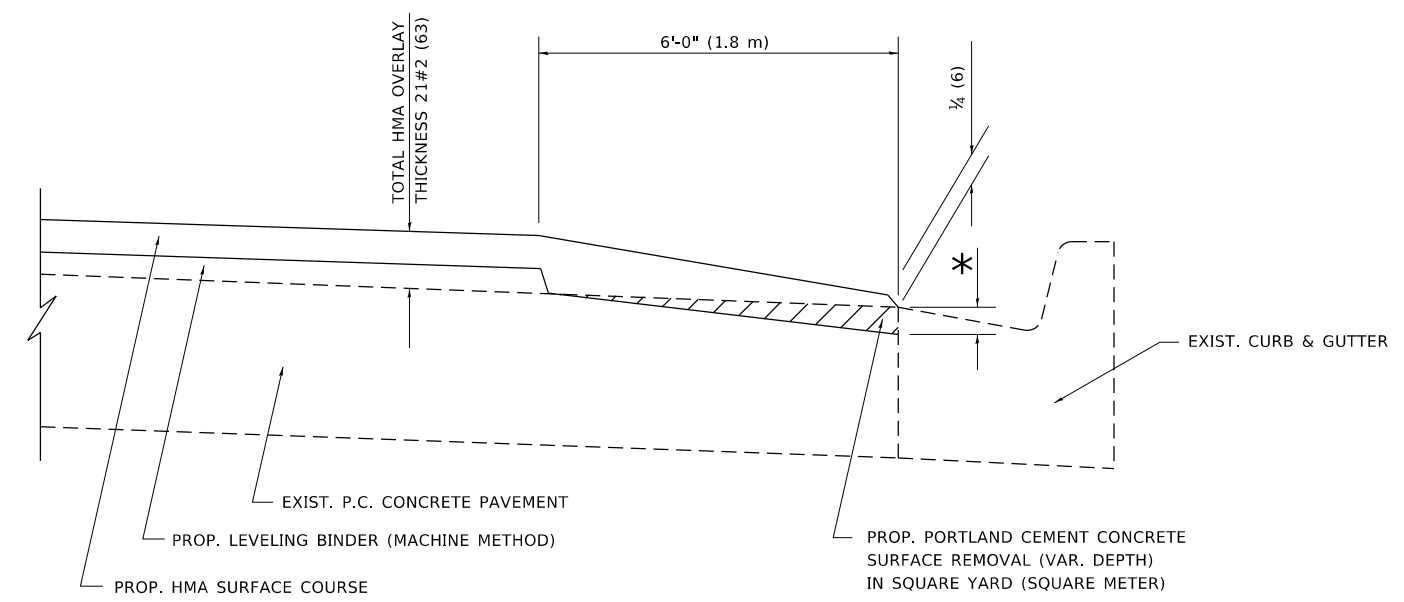
BUTT JOINT AND
HMA TAPER DETAILS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	54
BD400-05 BD32		CONTRACT NO. 62K71		
ILLINOIS FED. AID PROJECT				

USER NAME = khans	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 4/3/2020	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE - 06-13-90	REVISED - R.BORO 01-01-07

MODEL: Default
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PROJECT: 2019-198-R5&SW
DRAWN: M. DE YONG
CHECKED: M. GOMEZ
DATE: 06-13-90
PLOT DATE: 4/3/2020



**HMA TAPER AT
EDGE OF P.C.C PAVEMENT**

HMA SURFACE	LEVELING BINDER	MIX	THICKNESS	THICKNESS	* MILLING AT GUTTER FLAG
C OR D	1 1/2 (38)	1	(25)	1 1/4 (33)	
E	1 3/4 (44)	3/4	(19)	1 1/2 (38)	

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

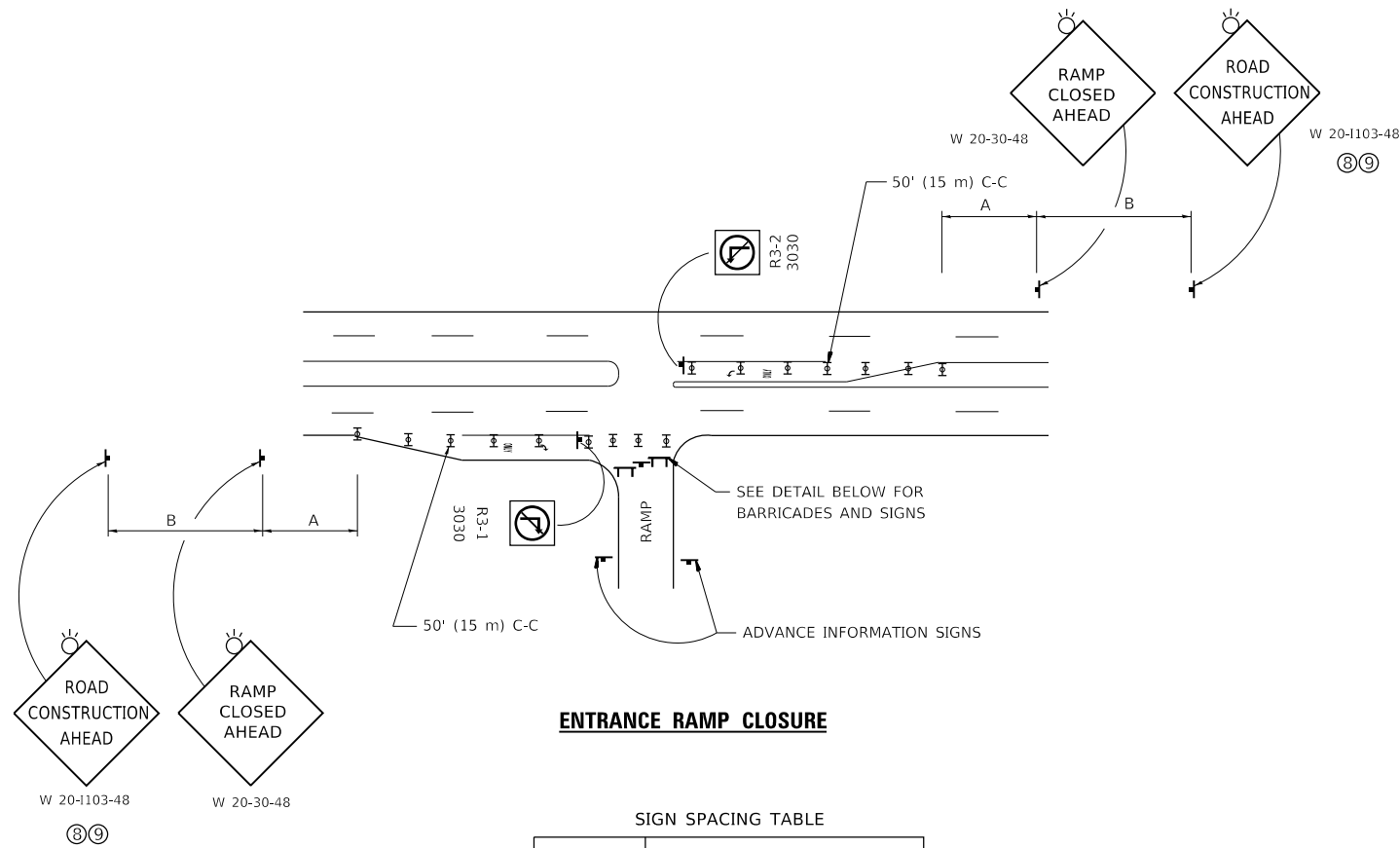
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PROJECT: 2019-198-R5&SW
DATE: 4/3/2020

USER NAME = khans	DESIGNED - R. SHAH	REVISED - A. ABBAS 05-05-9
	DRAWN - JIS	REVISED - E. GOMEZ 12-21-00
PLOT SCALE = 100.0000' / in.	CHECKED - A. ABBAS	REVISED - R. BORO 01-01-07
PLOT DATE = 4/3/2020	DATE - 09-10-94	REVISED - JP CHANG 07-08-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HMA TAPER AT EDGE OF P.C.C PAVEMENT			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	55
BD400-06 (BD33)		CONTRACT NO. 62K71		
ILLINOIS FED. AID PROJECT				

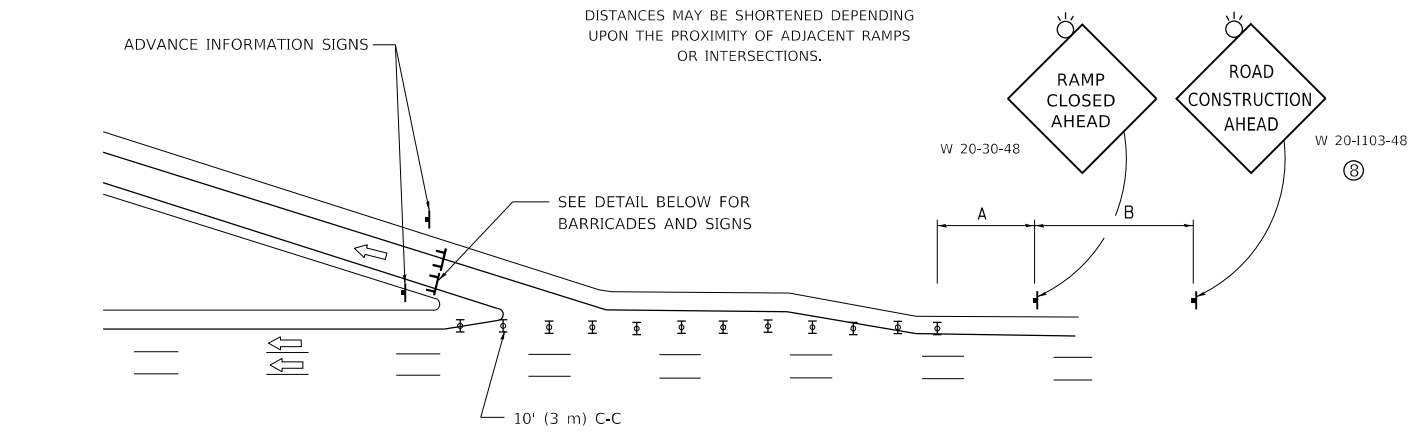


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

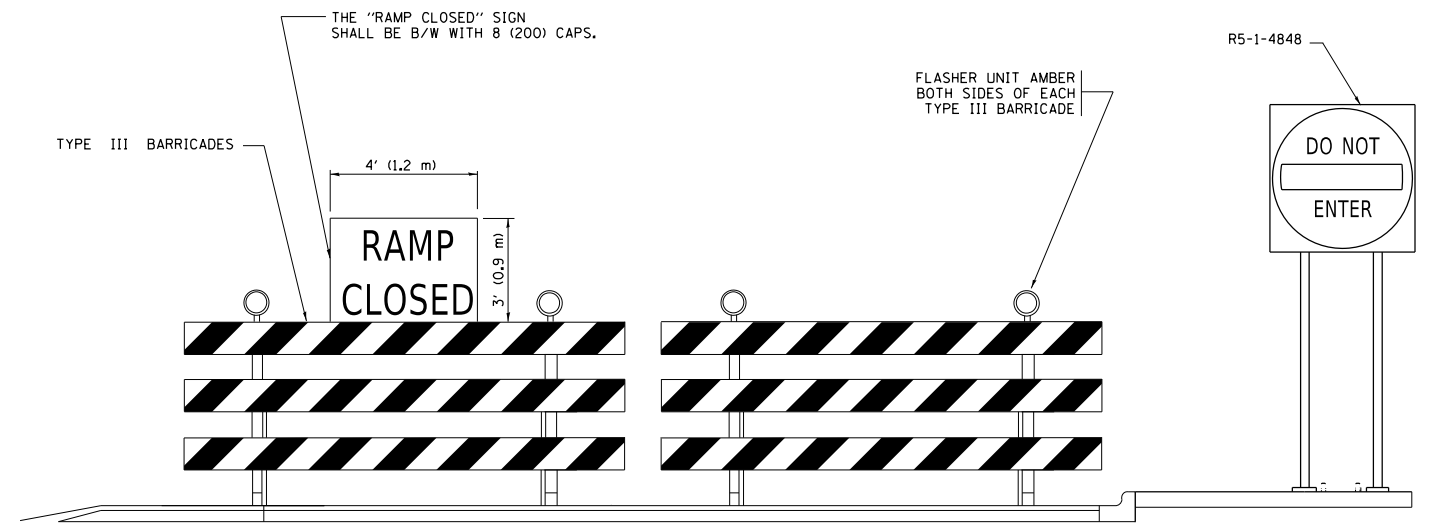
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

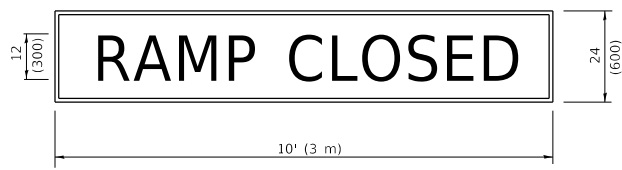
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

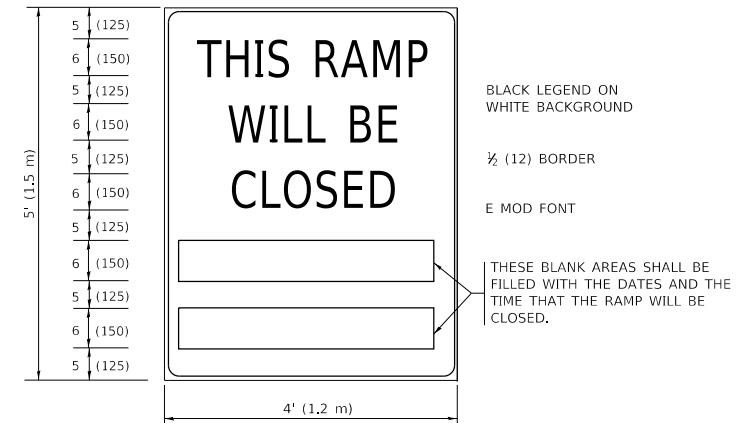
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

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FILE: \\hans\p\pub\hansroom\ad\all\hans\p\pub\dot\Documents\DOT\Office\Detail\1\Projects\136820\CaddData\Design\DRS\4.dgn

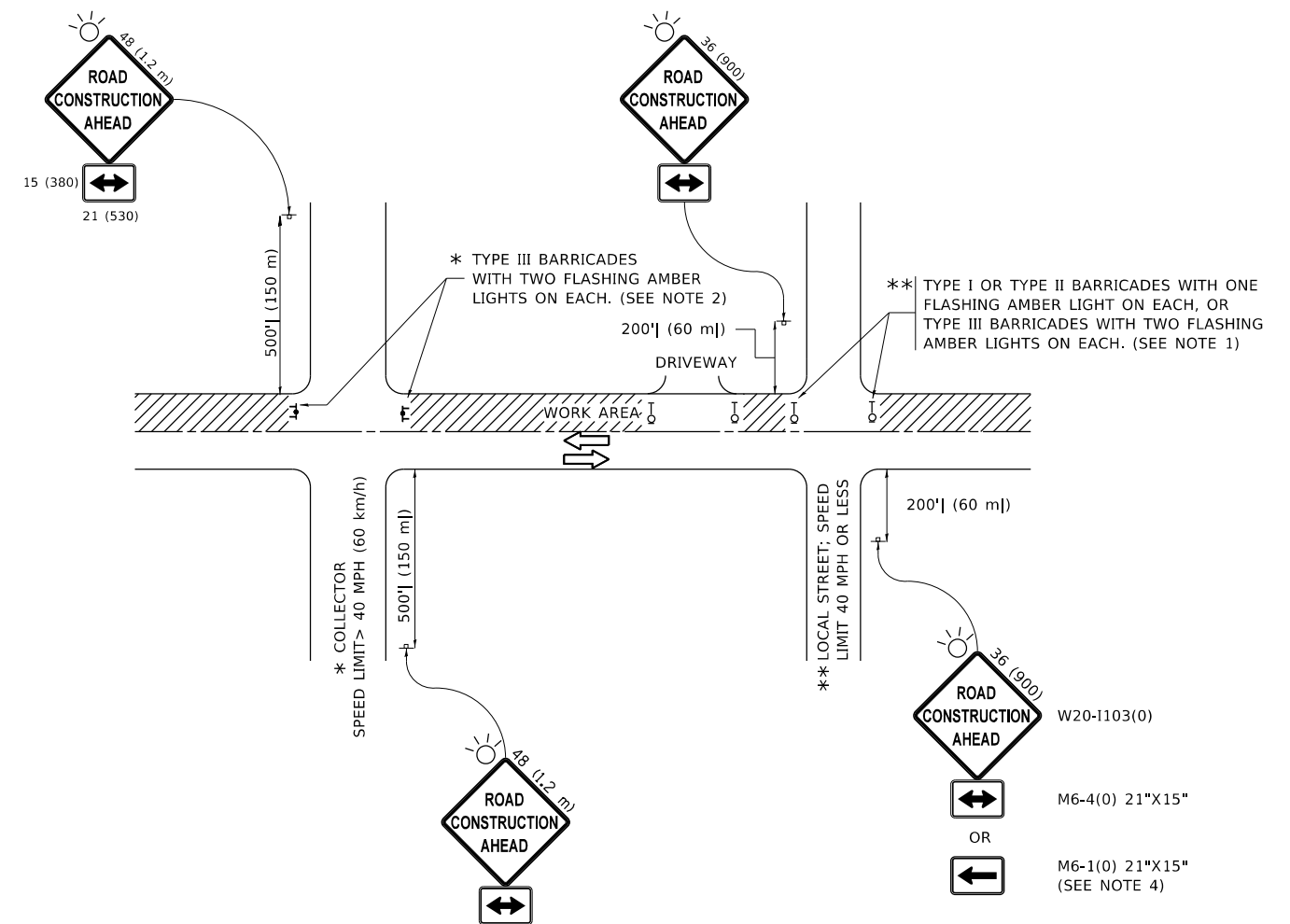
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DRAWN -	REVISED - S.P.B._12-09	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M.D._06-13
PLOT DATE = 4/3/2020	DATE - 02-83	REVISED - M.D._01-18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE_AND_EXIT_RAMP
CLOSURE_DETAILS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	56
TC-08			CONTRACT NO. 62K71	
ILLINOIS		FED. AID PROJECT		



NOTES:

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 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) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. 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.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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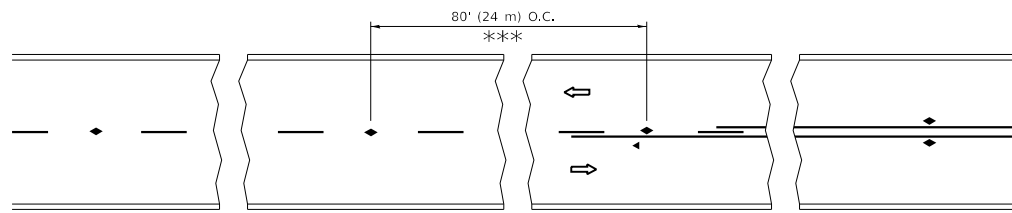
USER NAME = khans	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 4/3/2020	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

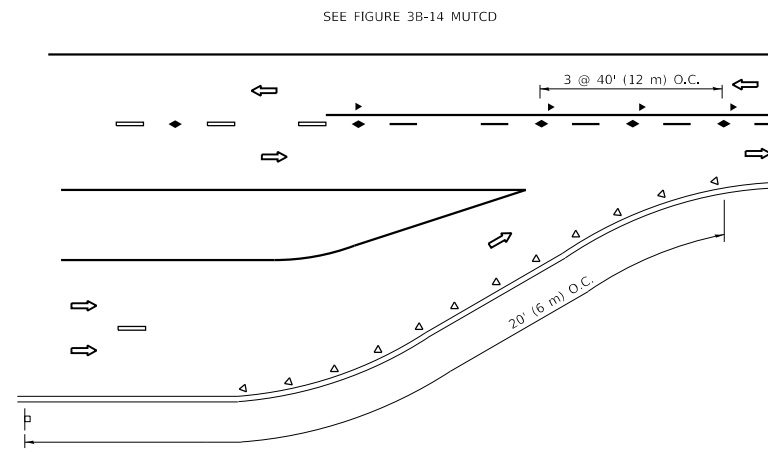
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62K71	
ILLINOIS FED. AID PROJECT				

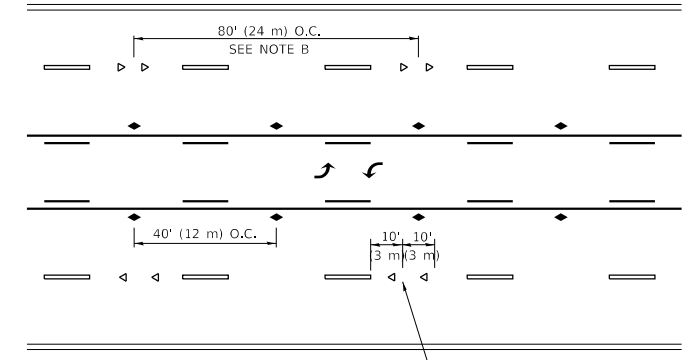


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

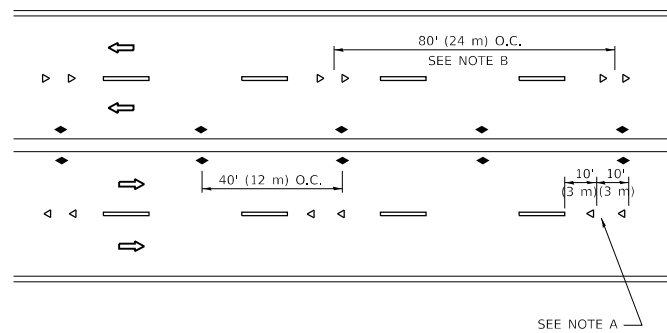
TWO-LANE/TWO-WAY



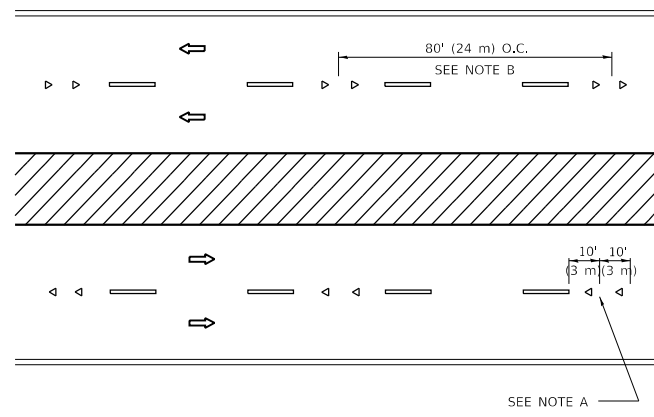
LANE REDUCTION TRANSITION



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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

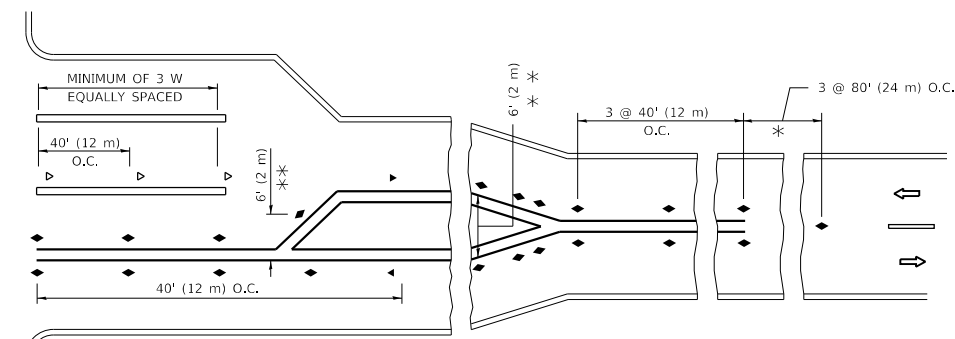
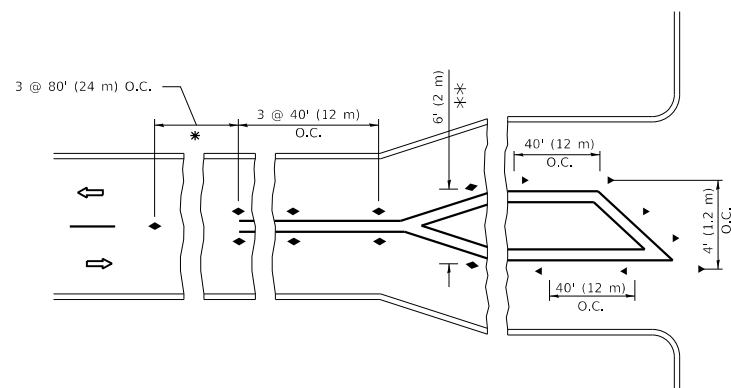
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



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

TURN LANES

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

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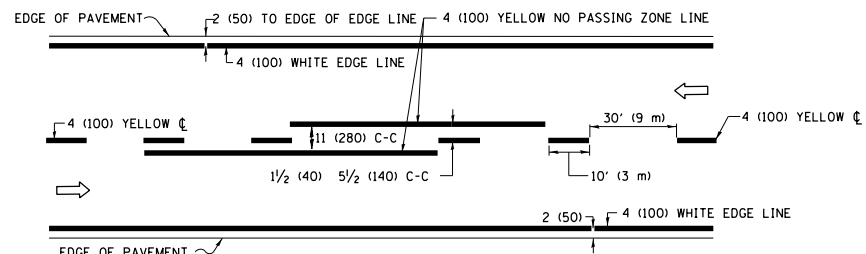
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 4/3/2020	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

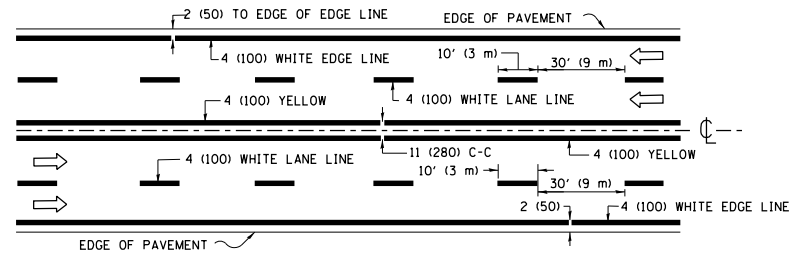
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

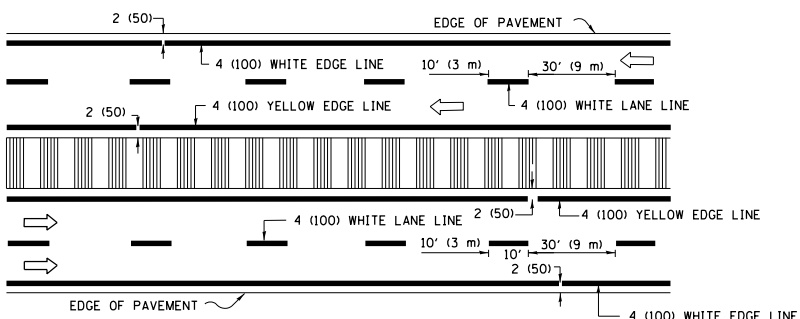
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	58
TC-11			CONTRACT NO. 62K71	
ILLINOIS		FED. AID PROJECT		



2-LANE ROADWAY

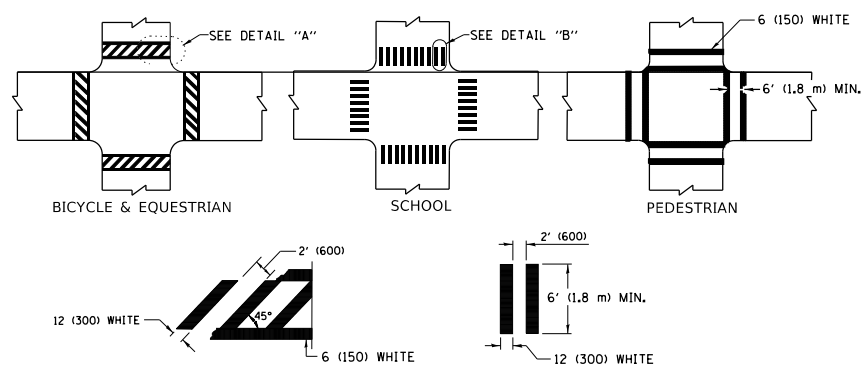


MULTI-LANE UNDIVIDED



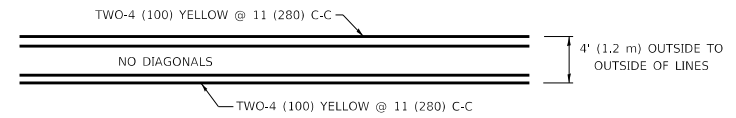
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

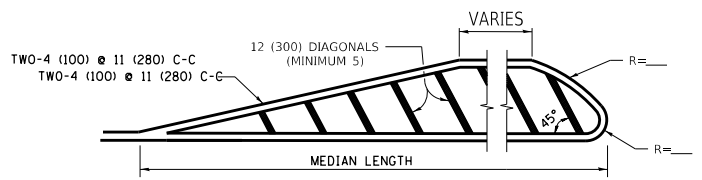


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

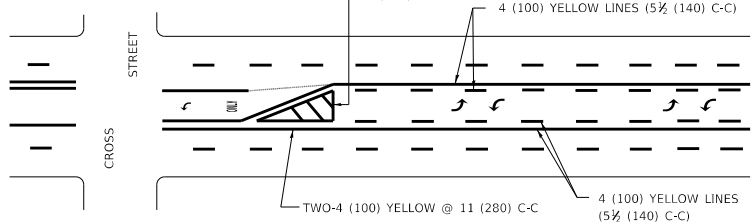


4' (1.2 m) WIDE MEDIANS ONLY



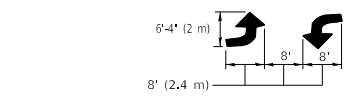
MEDIANS OVER 4' (1.2 m) WIDE

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))



MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

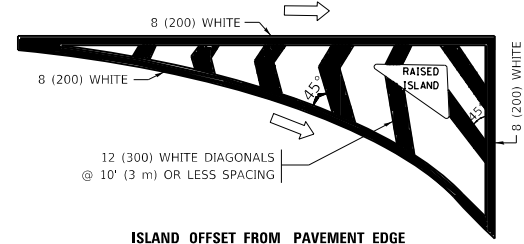
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



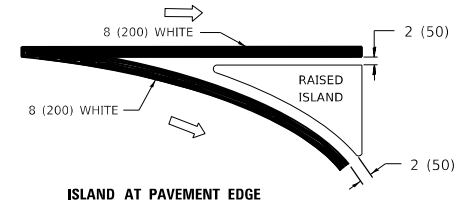
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE 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".

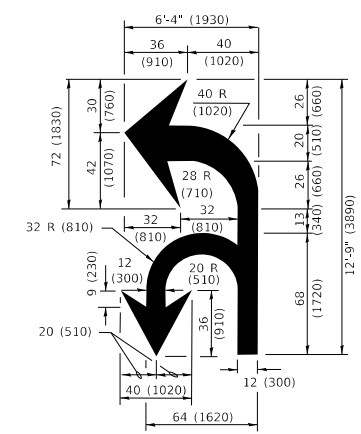


ISLAND OFFSET FROM PAVEMENT EDGE

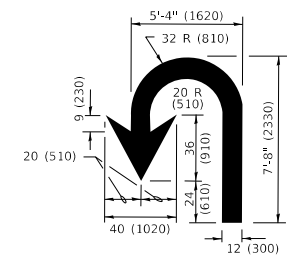


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES *RR* IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR *X*	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ²) EACH *X*=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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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USER NAME = khans	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 4/3/2020	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		3887	2019-198-R5&SW	KANE	64	59
SCALE: NONE		SHEET 1 OF 2 SHEETS		STA. TO STA.	ILLINOIS / FED. AID PROJECT	

TC-13		CONTRACT NO. 62K71	
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TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

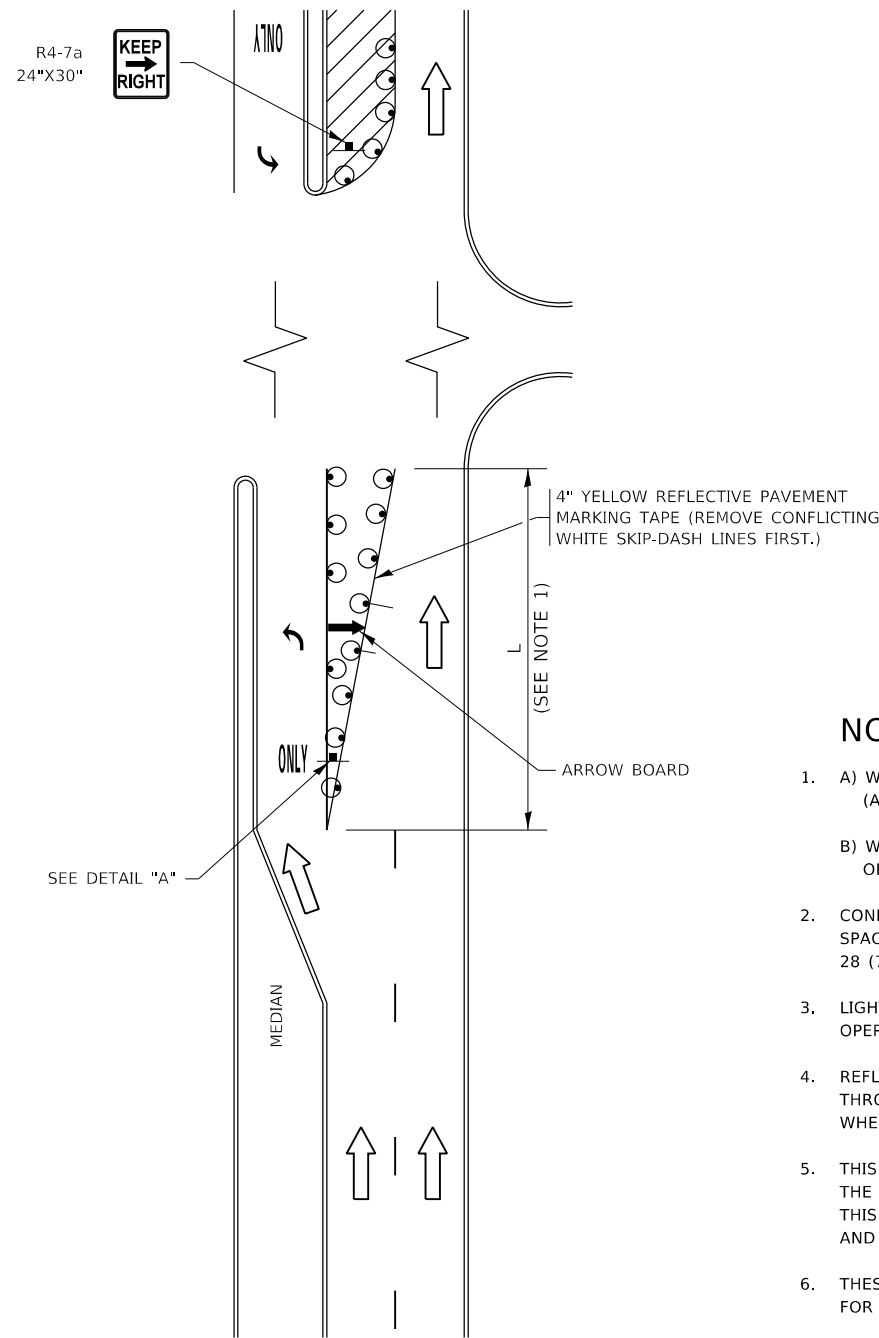


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

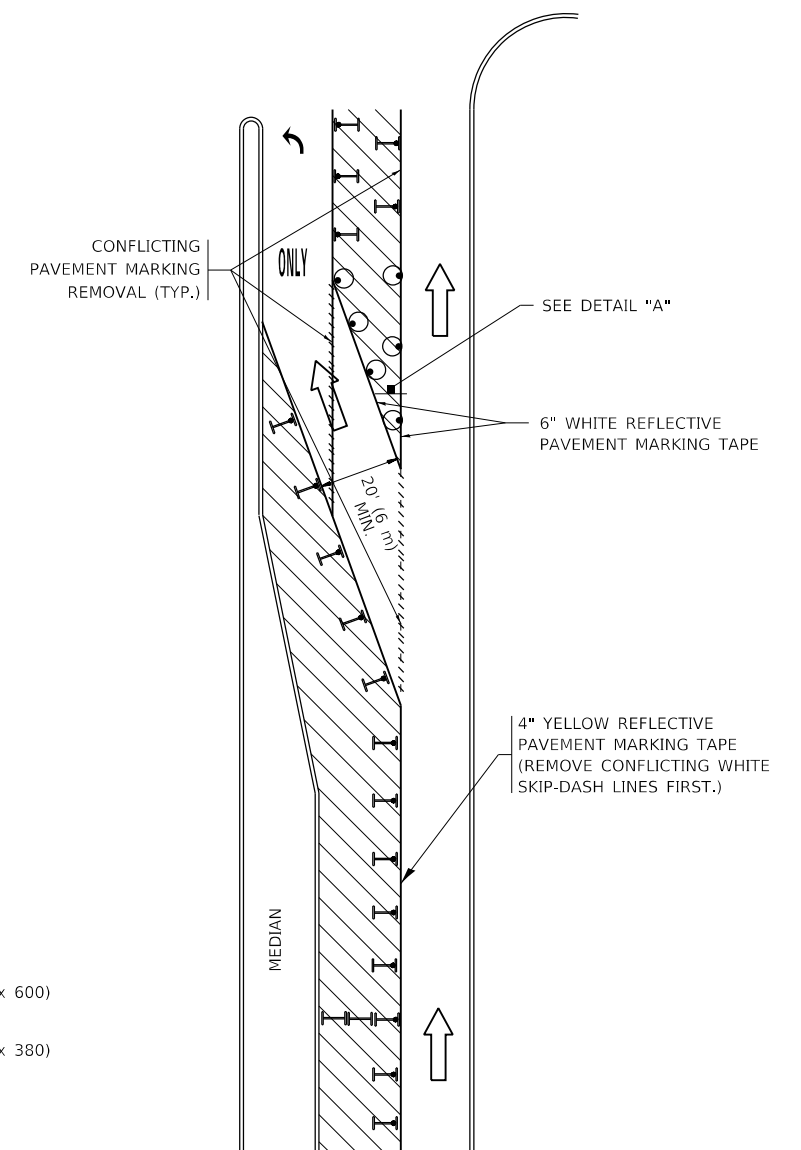
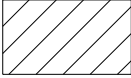








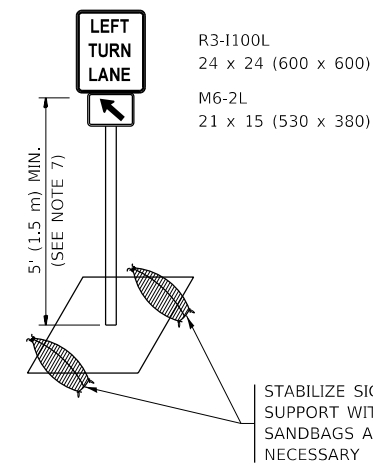
FIGURE 2

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  ARROW BOARD
-  TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  SIGN ASSEMBLY
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. 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" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

MODEL: Default
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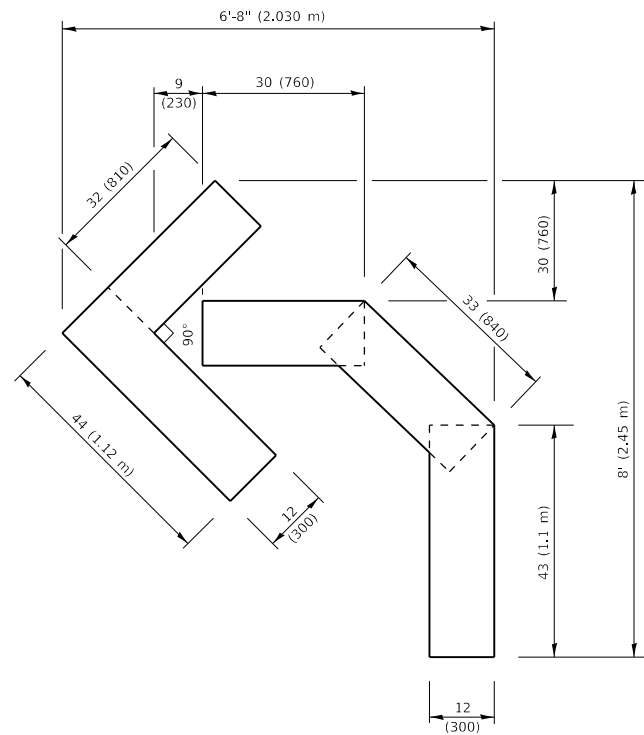
USER NAME = khans	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 4/3/2020	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

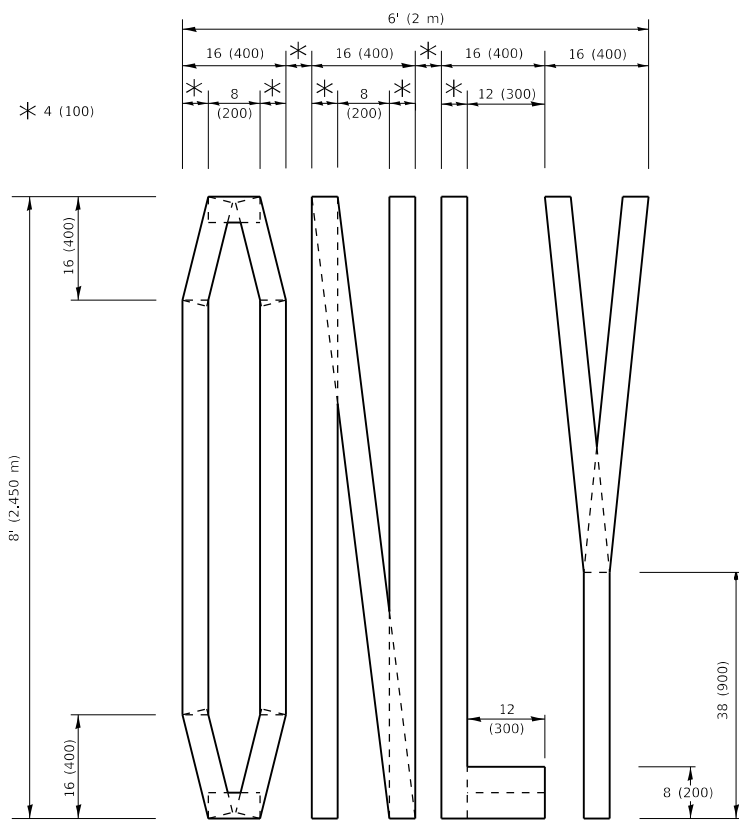
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	60
TC-14		CONTRACT NO. 62K71		
ILLINOIS FED. AID PROJECT				



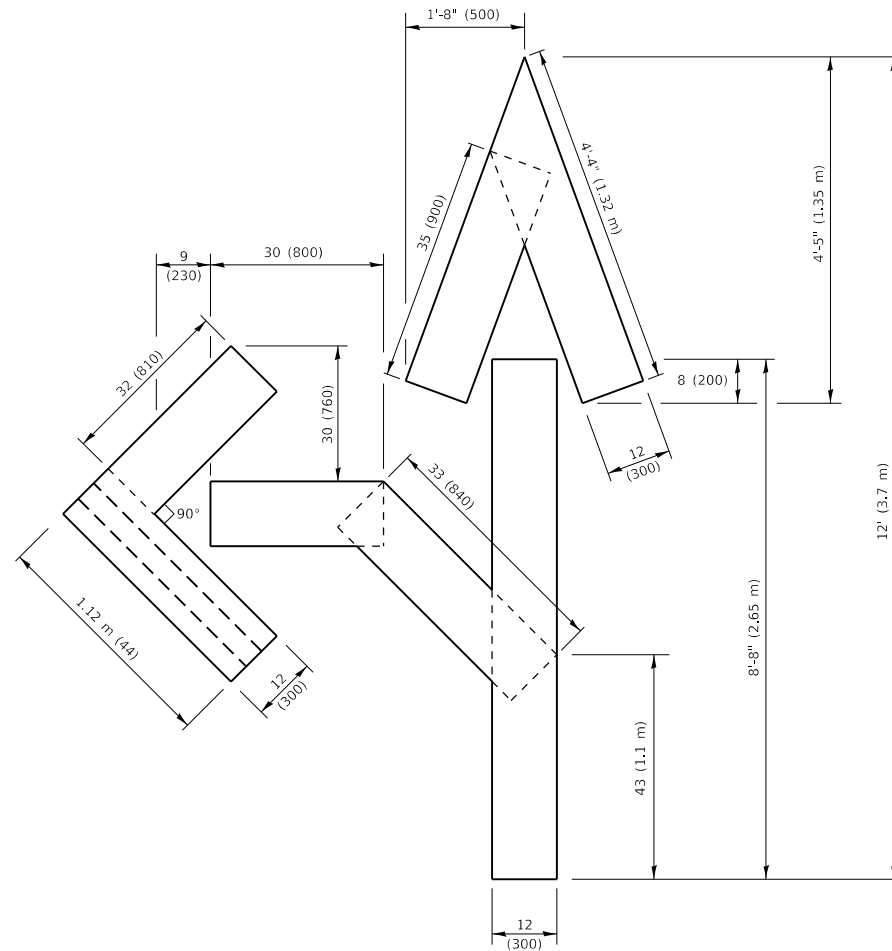
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

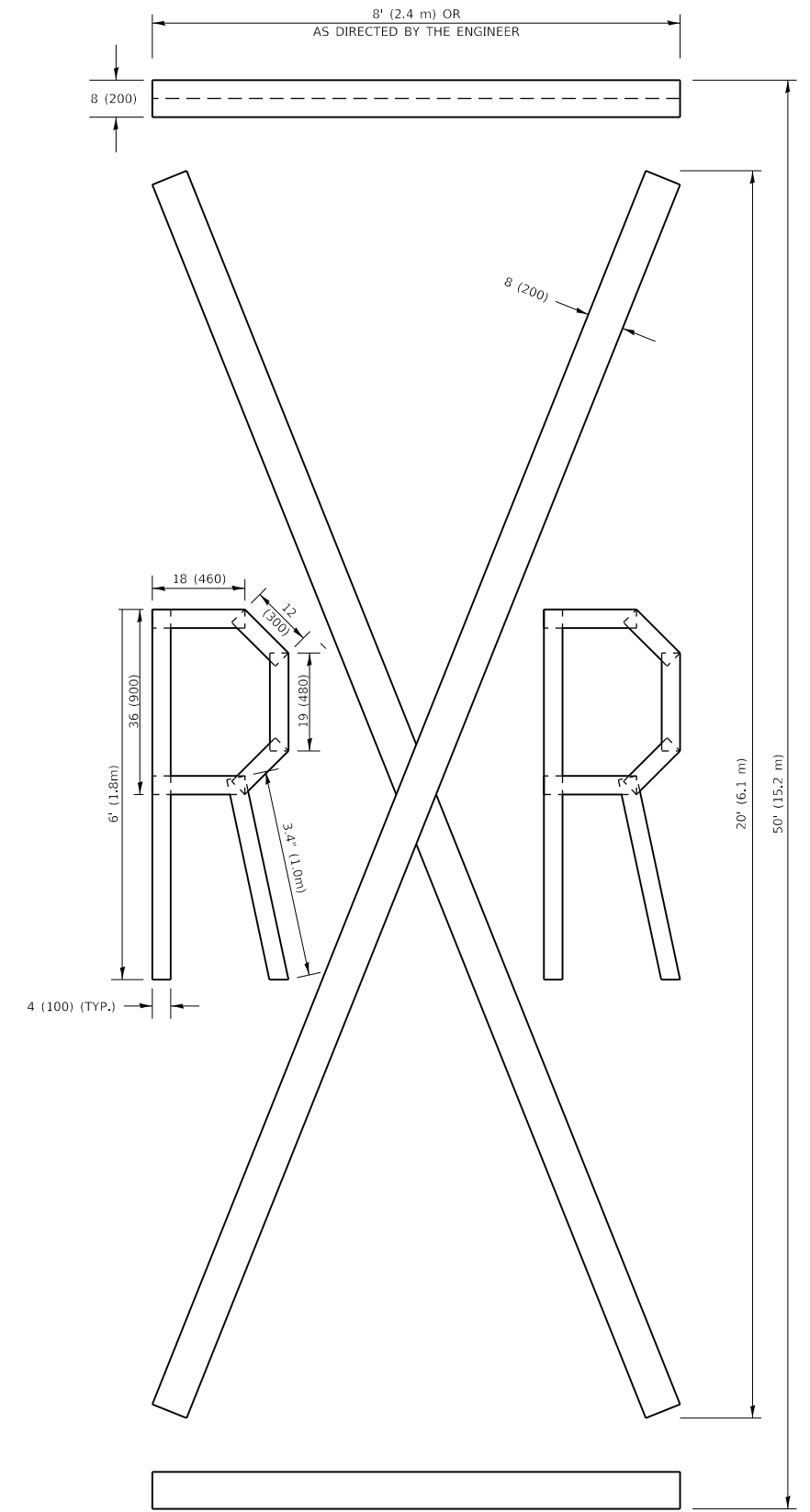


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

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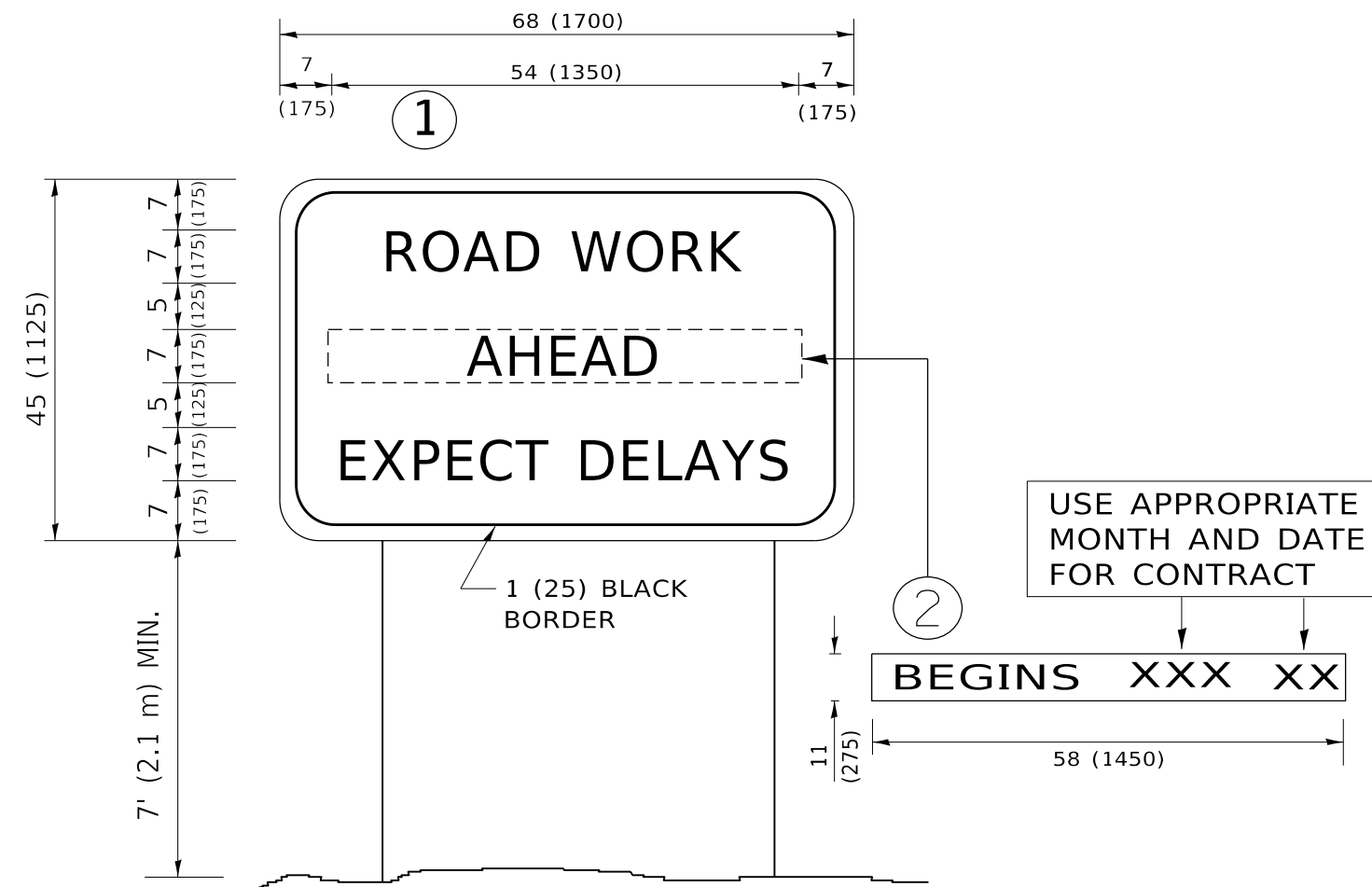
USER NAME = khans	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 4/3/2020	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	61
TC-16		CONTRACT NO. 62K71		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

MODEL: Default
 FILE: \\harris-pc\pub\harris\mtda\illinois\pwr\DOT\Documents\DOT_Offices\Dir\ctc_1\Project\136820\CADD\Design\Design\DRS\4.dgn

USER NAME = khans	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 4/3/2020	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

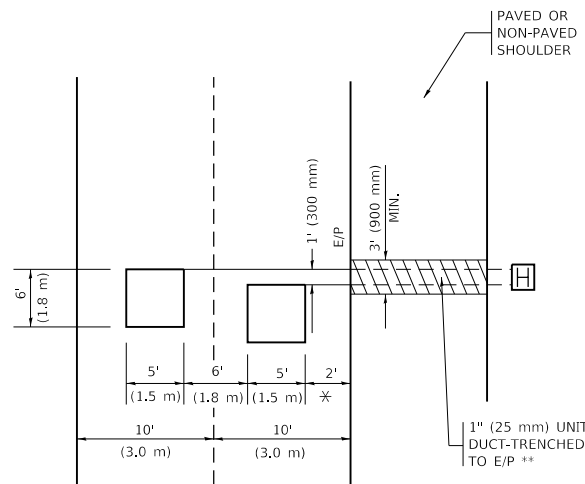
**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	63
TC-22			CONTRACT NO. 62K71	
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



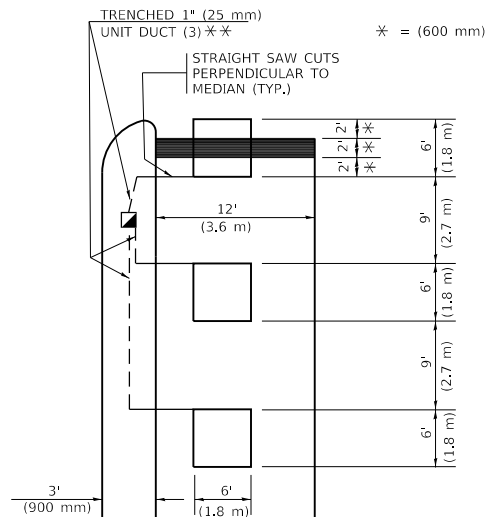
* = (600 mm)

** 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.



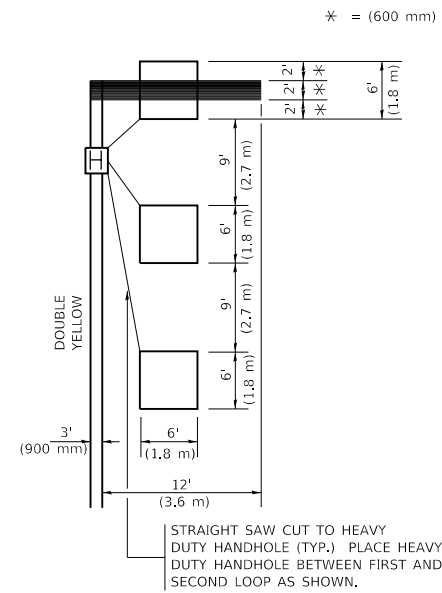
* = (600 mm)

** 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 SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

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

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

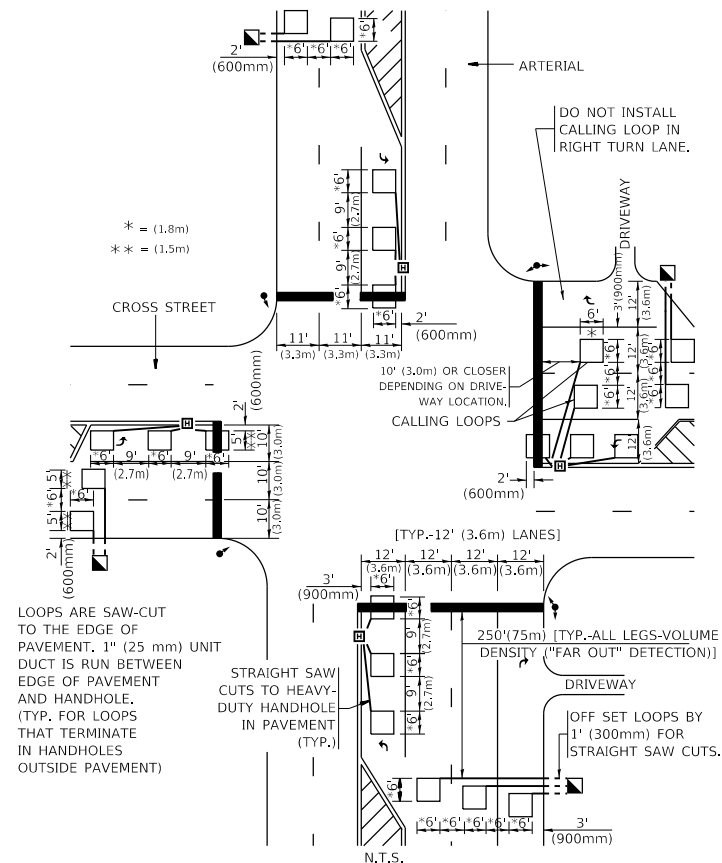
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

NOTE:

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

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

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



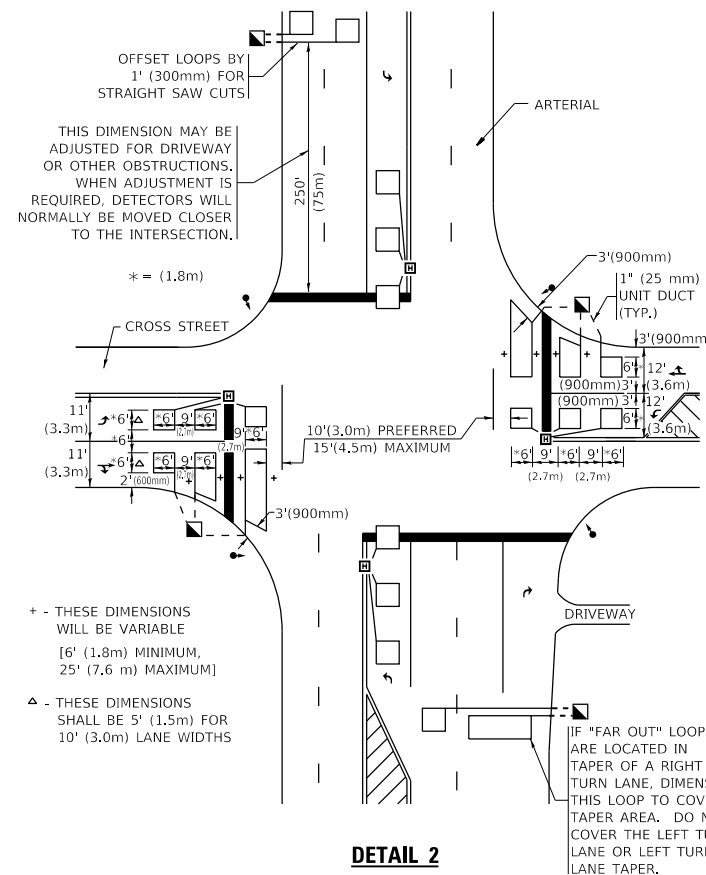
* = (1.8m)
** = (1.5m)

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)



THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

* = (1.8m)

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

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

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.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3887	2019-198-R5&SW	KANE	64	64
TS-07		CONTRACT NO. 62K71		
ILLINOIS		FED. AID PROJECT		