

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	1
		ILLINOIS	CONTRACT NO. 62U77	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE VILLAGE OF LIBERTYVILLE

IL 176 TRAFFIC DATA

SPEED LIMIT = 30 MPH  
2023 ADT = 13,089

PROPOSED  
HIGHWAY PLANS

FAU ROUTE 1238: IL 176 (PARK AVE)  
GARFIELD RD TO PARK PL  
SECTION: FAU 1238 23 OVERLAY  
PROJECT: STP-N03T(716)  
DESIGNED OVERLAY & ADA IMPROVEMENTS  
LAKE COUNTY

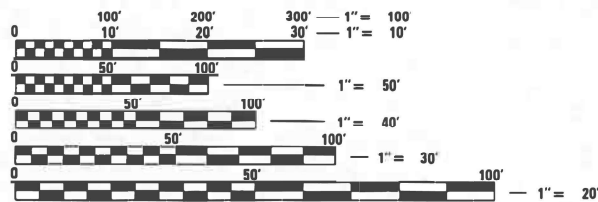
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IL 21 (MILWAUKEE AVE)  
AT LAKE ST & COOK ST

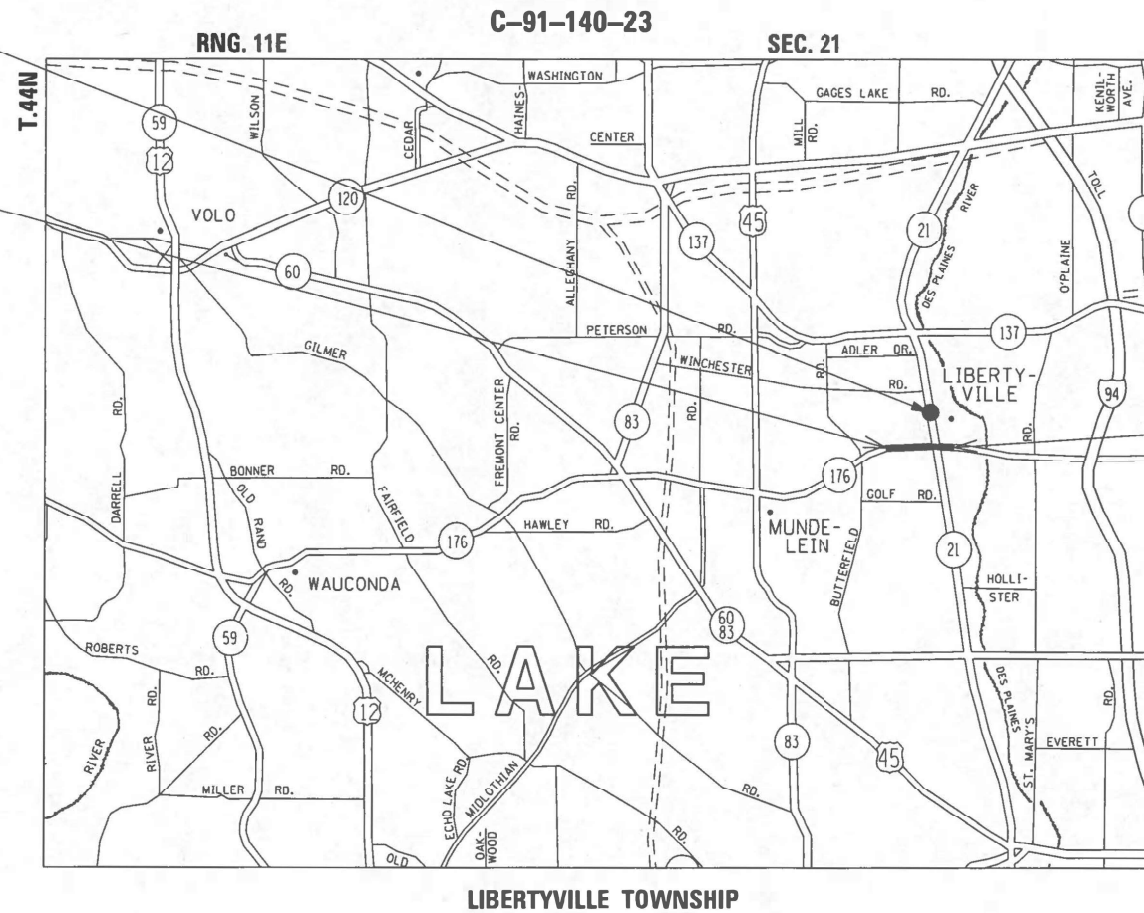
PROJECT BEGINS  
STA. 16 + 18

RESURFACING OMISSION  
STA. 30 + 99 TO 32 + 73



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



PROJECT ENDS  
STA. 34 + 76

PROJECT ENGINEER: LUKASZ POCIECHA, (847) 705-4225  
PROJECT MANAGER: FAWAD AQUEEL

GROSS LENGTH = 1,858 FT. = 0.35 MILE  
NET LENGTH = 1,684 FT. = 0.32 MILE

CONTRACT NO. 62U77

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED DECEMBER 8, 2023  
*Open Puts (OPB)*  
REGIONAL ENGINEER

May 10, 2024 *J. E. A. etc*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 *Stephen M. ...*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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## STATE STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE. MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
886001-01	DETECTOR LOOP INSTALLATIONS

## PROJECT SPECIFIC NOTES:

THE NORTHWEST CORNERS OF ILLINOIS ROUTE 21 (MILWAUKE AVE) AT LAKE STREET AND COOK STREET SHALL BE INCLUDED IN THIS CONTRACT. SEE PAGES 16-19 FOR CORNER DEATAILS.

## GENERAL NOTES

- 1) 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 FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- 2) THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LIBERTYVILLE.
- 3) THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4) WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (85 KM/HR) OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (85 KM/HR), WITH WRITTEN APPROVAL FROM THE ENGINEER. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPPED A MINIMUM 1:3 (V:H).
- 5) BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 6) THE CONTRACTOR SHALL CONTACT KALPANA HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURAG@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 7) THE ENGINEER SHALL CONTACT THE LAKE COUNTY TRAFFIC FIELD AREA ENGINEER FADI SULTAN AT FADI.SULTAN@ILLINOIS.GOV A MINIMUM OF TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 8) FRAMES AND GRATES ADJUSTMENTS OF PRIVATE UTILITIS WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- 9) DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 10) ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED BY THE ENIGNEER AT THE TIME OF CONSTRUCTION.
- 11) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- 12) THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIME DURING CONSTRUCTION.
- 13) ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID IN KIND.
- 14) 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.
- 15) BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFRENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER TJAY THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 16) ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.
- 17) THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.

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DRAWN -	REVISED -	123B			FAU 123B 23 OVERLAY	LAKE	36	2	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62U77				
PLOT DATE = 3/21/2024	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET	OF	SHEETS	STA.	TO STA.



## VILLAGE NOTES

- 1) THE VILLAGE OF LIBERTYVILLE ENGINEERING DIVISION (847-918-2105) SHALL BE CONTACTED A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK, AND SHALL BE KEPT APPRISED OF THE PROJECT SCHEDULE THROUGHOUT THE DURATION OF CONSTRUCTION.
- 2) THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NECESSARY PRECAUTIONS TO ENSURE PROTECTION OF EXISTING BRICK PAVERS. ANY BRICK PAVERS THAT ARE REMOVED AND ARE NOT INTENDED TO BE REPLACED UPON COMPLETION OF THE IMPROVEMENTS SHALL BE RETURNED TO THE VILLAGE OF LIBERTYVILLE.
- 3) ALL EXISTING BRICK PAVER CROSSWALKS ARE TO REMAIN AND SHALL BE PROTECTED AS NECESSARY TO AVOID DAMAGE DURING CONSTRUCTION.
- 4) VILLAGE-OWNED IRRIGATION LINES ARE COMMONLY LOCATED IN CLOSE PROXIMITY OR BENEATH CURB LINES AND ROADWAYS ALONG MILWAUKEE AVE. BETWEEN CHURCH ST. AND JOHNSON AVE. ANY IRRIGATION LINES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR USING PVC GLUE FITTINGS AND WATERPROOF UNDERGROUND WIRE CONNECTIONS AFTER THE PIPE INTERIOR AND EXTERIOR AND WIRING ARE CLEANED AND PREPPED PER MANUFACTURER'S RECOMMENDATIONS.
- 5) THERE ARE DECORATIVE FENCING AND PLANTING AREAS LOCATED WITHIN THE BRICK PAVERS THROUGHOUT THE DOWNTOWN AREA THAT WILL NEED TO BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.

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SCALE:					SHEET	OF	SHEETS	STA.	TO	STA.	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE
				ROADWAY	ROADWAY	TRAFFIC SIGNALS
				0005	0005	0021
				URBAN	URBAN	URBAN
20200100	EARTH EXCAVATION	CU YD	30	30		
21101605	TOPSOIL FURNISH AND PLACE, 2"	SQ YD	6	6		
25200110	SODDING SALT TOLERANT	SQ YD	6	6		
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	4.0	4.0		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	4938	4938		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	3500	3500		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	22	22		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	100	100		
40602985	HOT-MIX ASPHALT BINDER COURSE, 1L-9.5, N70	TON	819	819		
40604060	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N50	TON	0.5	0.5		
40604062	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N70	TON	728	728		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	16.0	16.0		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	241	241		
42400800	DETECTABLE WARNINGS	SQ FT	40	40		

\* SPECIALTY ITEM

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PLOT DATE = 3/22/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 176 (PARK AVE.) - GARFIELD RD. TO PARK PL  
SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62U77	

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				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE
				ROADWAY	ROADWAY	TRAFFIC SIGNALS
				0005	0005	0021
				URBAN	URBAN	URBAN
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	7314	7314		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	25.5	25.5		
44000300	CURB REMOVAL	FOOT	25	25		
44000600	SIDEWALK REMOVAL	SQ FT	100	100		
44201297	DOWEL BAR 1"	EACH	6	6		
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	50	50		
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	500	500		
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	500	500		
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	400	400		
50800105	REINFORCEMENT BARS	POUND	30.5	30.5		
50900805	PEDESTRIAN RAILING	FOOT	10	10		
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1		
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1		
60266600	VALVE BOX TO BE ADJUSTED	EACH	2	2		
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	12	12		
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1		
60403800	LIDS, TYPE 1 CLOSED LID	EACH	3	3		
60406001	FRAMES AND LIDS, TYPE 1 ADA COMPLIANT, OPEN LID	EACH	1	1		

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 176 (PARK AVE.) - GARFIELD RD. TO PARK PL  
 SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	5
CONTRACT NO. 62U77			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
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				ROADWAY	ROADWAY	TRAFFIC SIGNALS
				0005	0005	0021
				URBAN	URBAN	URBAN
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	30	30		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3	3		
67100100	MOBILIZATION	L SUM	1	1		
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3,305	3,305		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	276	276		
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	297	297		
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	4,292	4,292		
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	1,078	1,078		

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 176 (PARK AVE.) - GARFIELD RD. TO PARK PL  
SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	6
CONTRACT NO. 62U77				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE
				ROADWAY	ROADWAY	TRAFFIC SIGNALS
				0005	0005	0021
				URBAN	URBAN	URBAN
70300261	TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT	FOOT	520	520		
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	FOOT	34	34		
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	826	826		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	297	297		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,292	4,292		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,078	1,078		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	856	856		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	34	34		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	103	103		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	100	100		
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			2
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	34.5			34.5
* X8860105	DETECTOR LOOP REPLACEMENT	FOOT	120			120

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 176 (PARK AVE.) - GARFIELD RD. TO PARK PL  
SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	7
CONTRACT NO. 62U77			ILLINOIS FED. AID PROJECT	



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE
				ROADWAY	ROADWAY	TRAFFIC SIGNALS
				0005	0005	0021
				URBAN	URBAN	URBAN
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	13			13
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1		
X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	990	990		
X4060995	TEMPORARY RAMP (SPECIAL)	SQ YD	128	128		
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	130	130		
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	300	300		
X5091300	DECORATIVE STEEL RAILING	FOOT	21	21		
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	13	13		
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	40	40		
X6061055	CONCRETE ISLAND (SPECIAL)	SQ FT	75.0	75.0		
X6700407	ENGINEERS FIELD OFFICE, TYPE A (D1)	CAL MO	3	3		
* X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	14			14
Z0012450	CONCRETE STEPS	CU YD	1	1		
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	25		25	

\* SPECIALTY ITEM

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PLOT DATE = 3/22/2024	DATE -	REVISED -

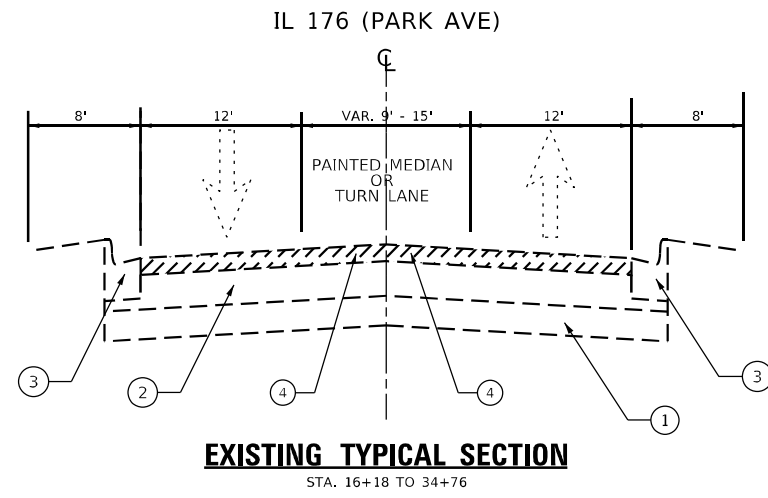
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 176 (PARK AVE.) - GARFIELD RD. TO PARK PL  
SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

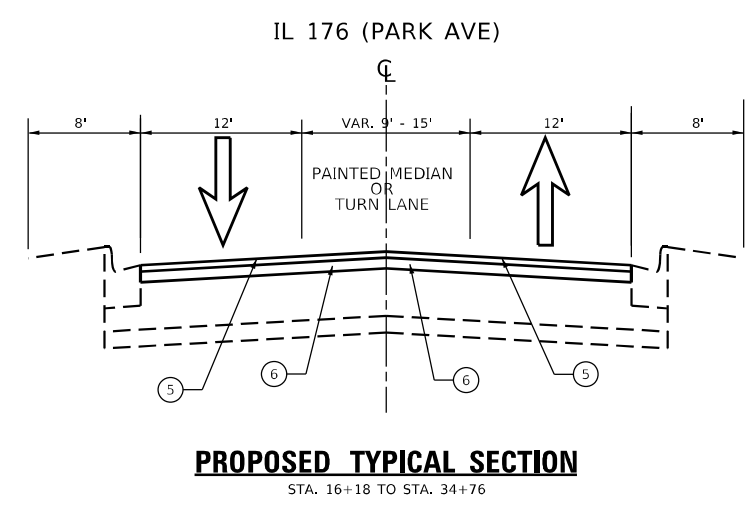
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	8
CONTRACT NO. 62U77				
ILLINOIS FED. AID PROJECT				





**LEGEND**

- ① EXISTING PCC PAVEMENT, VAR 3 1/4" TO 8"
- ② EXISTING HMA PAVEMENT ±8"
- ③ EXISTING COMBINATION CURB & GUTTER
- ④ PROPOSED HMA SURFACE REMOVAL, 3.75"
- ⑤ PROPOSED HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1.75"
- ⑥ PROPOSED HMA BINDER COURSE, IL-9.5, N70, 2"



HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
DESIGNED OVERLAY		
TEMPORARY RAMP (SPECIAL) (HMA BINDER COURSE, IL-9.5, N70)	4% @ 70 GYR.	QC/QA
HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1.75"	4% @ 70 GYR.	QC/QA
HMA BINDER COURSE, IL-9.5, N70, 2"	4% @ 70 GYR.	QC/QA
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR.	QC/QA
DRIVEWAY		
HMA BASE COURSE (HMA BINDER IL-19mm); PE-6"	4% @ 50 GYR.	QC/QA
HMA SURFACE COURSE, MIX "D", IL-9.5, N50, 2"	4% @ 50 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

**MIXTURE TABLE NOTES**

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

NOTE:  
THE CONTRACTOR SHALL MILL BEFORE PATCHING.

THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE HOT-MIX ASPHALT BINDER COARSE, IL-9.5, N70.

MODEL: Default; FILE: \\blmfe-pw-bu\dst-cw-be\paw.com\PIV\DOT\Documents\DOT Office\District\_1\Project\11\_176 (Park Ave)\CAD\Drawings\11\_176-shr-typical.dgn

USER NAME = JammalAlramahl	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/21/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

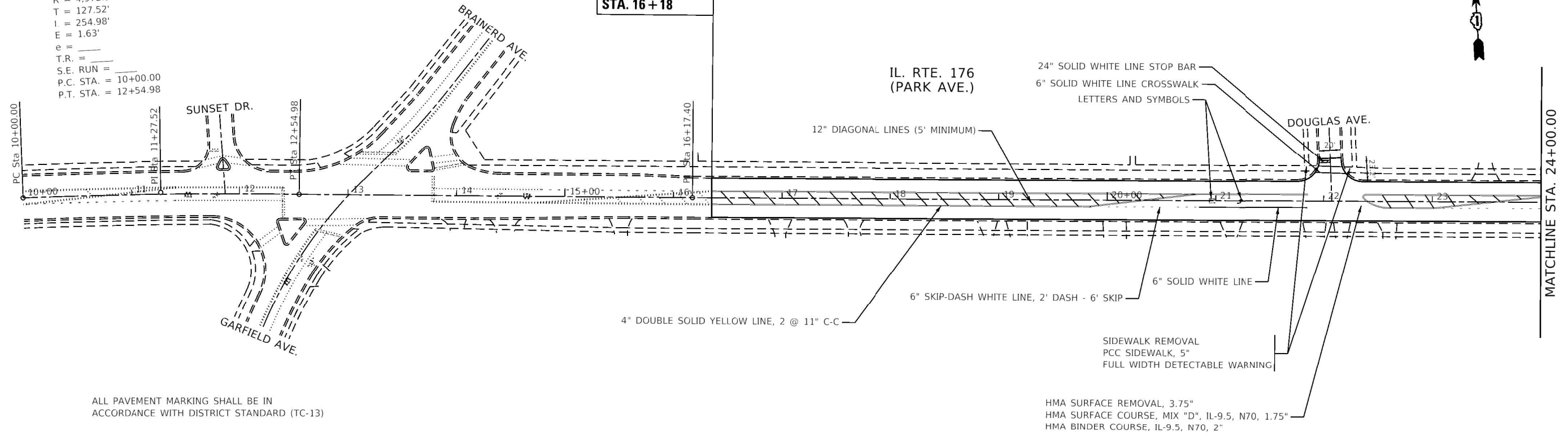
**IL 176 (PARK AVE.)  
TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	10
CONTRACT NO. 62U77				
ILLINOIS		FED. AID PROJECT		

EXIST. CURVE IL176\_E\_1  
 PI STA. = 11+27.52  
 $\Delta = 2^\circ 56' 16''$  (RT)  
 $D = 1^\circ 09' 08''$   
 $R = 4,972.94'$   
 $T = 127.52'$   
 $L = 254.98'$   
 $E = 1.63'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 10+00.00$   
 $P.T. STA. = 12+54.98$

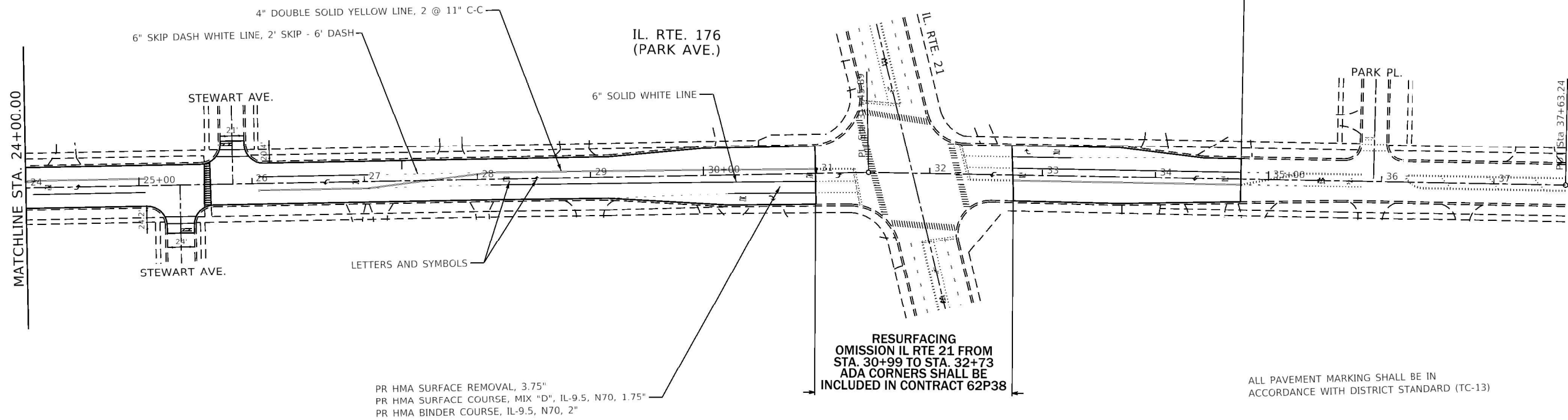
**PROJECT BEGINS  
 STA. 16 + 18**



ALL PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT STANDARD (TC-13)

HMA SURFACE REMOVAL, 3.75"  
 HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1.75"  
 HMA BINDER COURSE, IL-9.5, N70, 2"

**PROJECT ENDS  
 STA. 34 + 76**



PR HMA SURFACE REMOVAL, 3.75"  
 PR HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1.75"  
 PR HMA BINDER COURSE, IL-9.5, N70, 2"

**RESURFACING  
 OMISSION IL RTE 21 FROM  
 STA. 30+99 TO STA. 32+73  
 ADA CORNERS SHALL BE  
 INCLUDED IN CONTRACT 62P38**

ALL PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH DISTRICT STANDARD (TC-13)

MODEL: Default  
 FILE: Model - Roadway.dwg  
 PLOT DATE: 4/23/2024  
 PROJECT: IL 176 (Park Ave) - Garfield Rd to Park Pl  
 SHEET: 11 of 36

USER NAME = jemmal.alramahi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/23/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 176 (PARK AVE.) - GARFIELD RD. TO PARK PL  
 ROADWAY PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 1238	SECTION FAU 1238 23 OVERLAY	COUNTY LAKE	TOTAL SHEETS 36	SHEET NO. 11
			CONTRACT NO. 62U77	
		ILLINOIS FED. AID PROJECT		

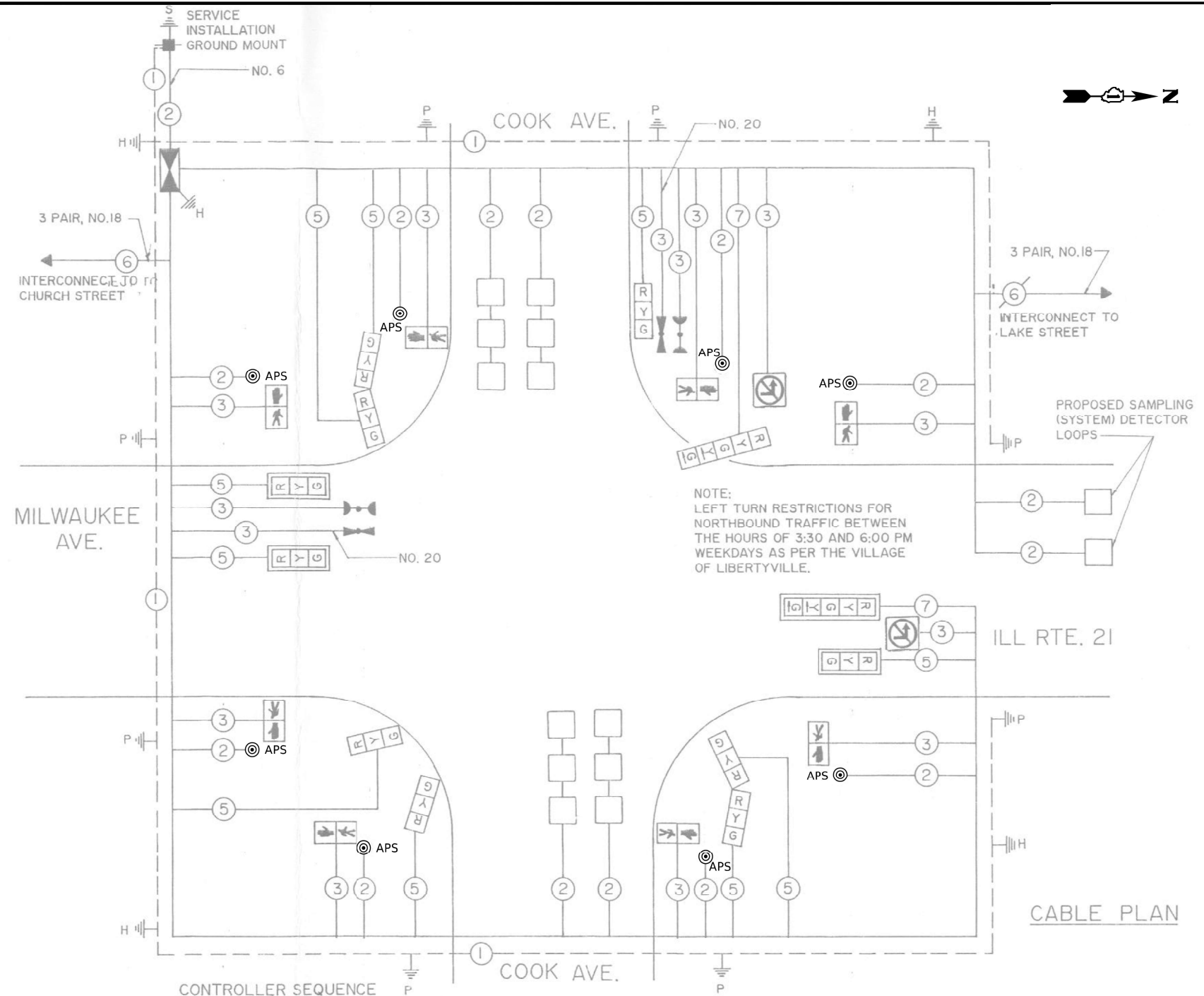












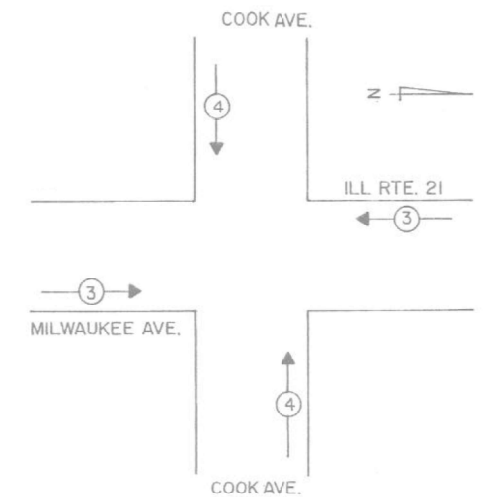
CABLE PLAN

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

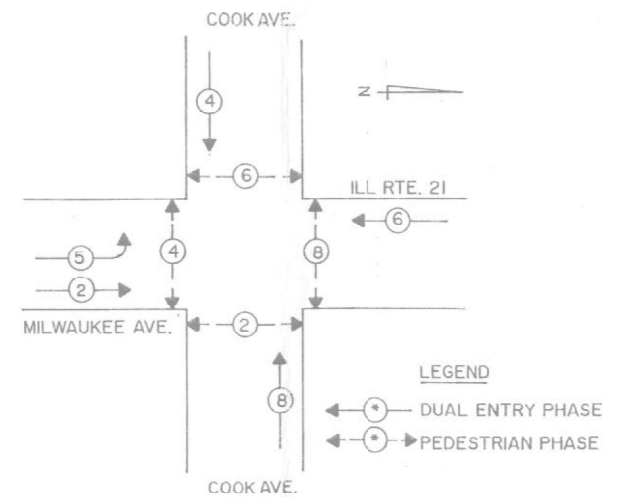
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				431.8

ENERGY COSTS TO:  
**VILLAGE OF LIBERTYVILLE**  
 1500 FRANKLIN BLVD  
 LIBERTYVILLE, IL. 60048  
 ENERGY SUPPLY: CONTACT: DANIEL MENDEZ  
 PHONE: (773) 799-6111  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: ---

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CONTROLLER SEQUENCE**



**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN  
 IL RTE 21 (MILWAUKEE AVE) AND COOK AVE**

**TS 13990**

USER NAME = jason.maddipati	DESIGNED - JR	REVISED -
PLOT SCALE = 4000000" / 1" ft.	DRAWN - JR	REVISED -
PLOT DATE = 1/18/2024	CHECKED -	REVISED -
	DATE - 1/4/2024	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	16
CONTRACT NO. 62U77				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
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 6/25/2024 10:58:00 AM  
 PROJECT: 115211048.dwg - APS Plans.dwg  
 USER: jason.maddipati  
 DATE: 1/18/2024 10:58:00 AM

# GENERAL INFORMATION

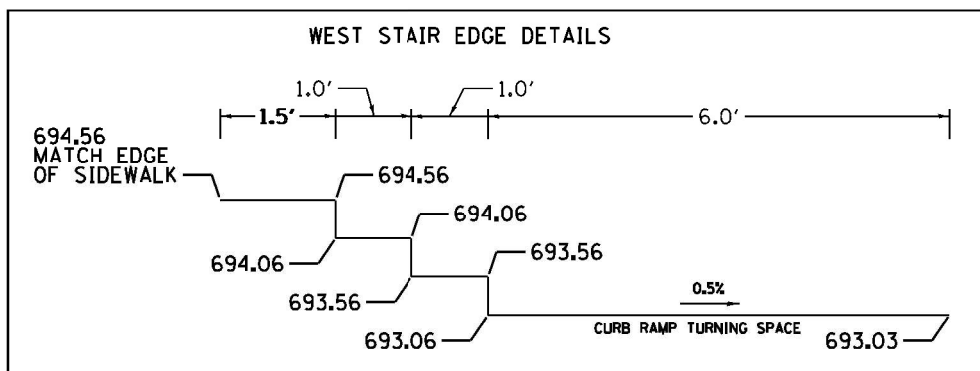
- MAINTAIN EXISTING EDGE OF PAVEMENT. VARIABLE CURB HEIGHTS ARE REQUIRED AT THE LOCATIONS NOTED.

- THE EAST STAIR RAILING SHALL EXTEND TO MEET THE EXISTING FENCING ALONG MILWAUKEE AVENUE. THE WEST STAIR RAILING SHALL EXTEND TO THE WEST PLANTER BOX LIMIT ALONG LAKE STREET.

- ADA STATEMENTS OF MAXIMUM EXTENT PRACTICABLE ARE REQUIRED AT TWO LOCATIONS: THE 10.0% LONGITUDINAL SLOPE ADJACENT TO THE PLANTER BOX AND THE 7.2% LONGITUDINAL SLOPE IN THE LOWER LANDING OF THE CURB RAMP CROSSING LAKE STREET.

EOP = EDGE OF PAVEMENT  
BOC = BACK OF CURB  
EOS = EDGE OF SIDEWALK

- PLANTER BOX SHALL BE PAID FOR AS CONCRETE CURB, TYPE B (SPECIAL).
- PLANTER BOX REMOVAL SHALL BE PAID FOR AS CURB REMOVAL AND EARTH EXCAVATION.
- RELOCATE EXISTING POST AND EXTEND RAILING SHALL BE INCLUDED IN THE COST OF DETORATIVE STEEL RAILING.

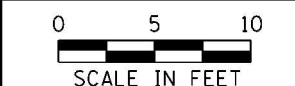
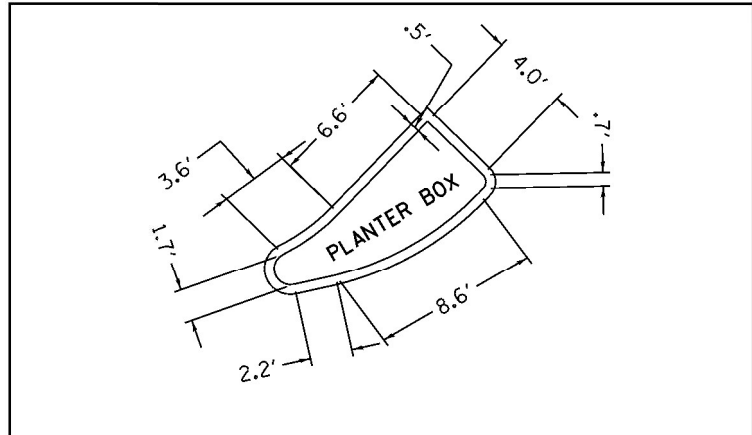
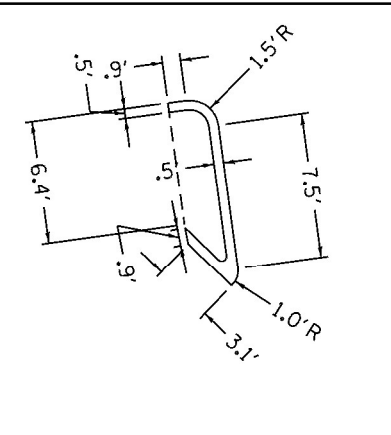
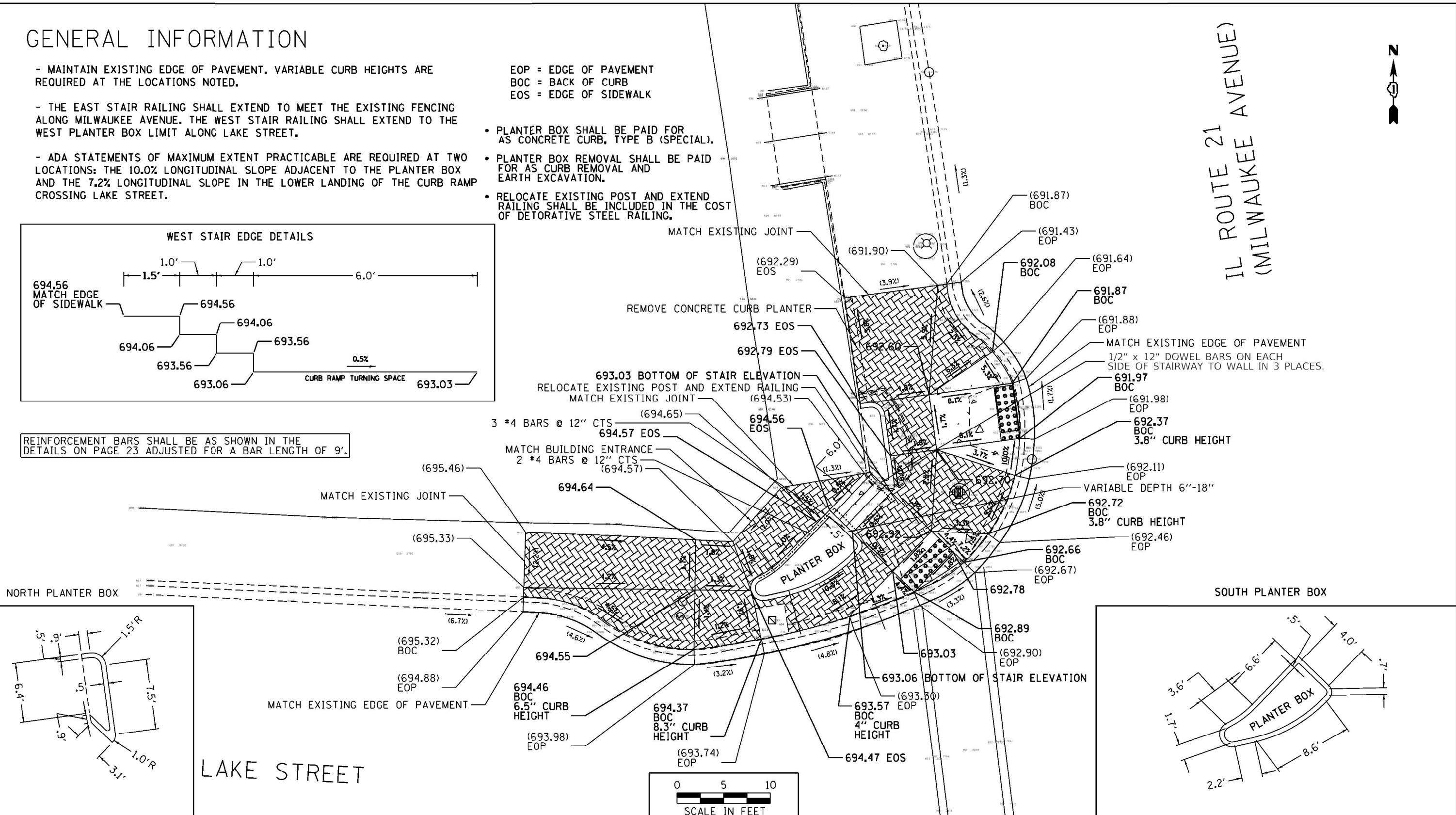


REINFORCEMENT BARS SHALL BE AS SHOWN IN THE DETAILS ON PAGE 23 ADJUSTED FOR A BAR LENGTH OF 9'.

IL ROUTE 21  
(MILWAUKEE AVENUE)



FILE NAME : S:\M\PLANREP\SD\AD\_1\62077 - IL 176 (Park Ave) (Garfield Rd to Park Pl) - Designec Overlay\_ADA\12-CAD Files\IL 21 and Lake\LIBERTYVILLE-40317-68F30-NWS-CADD-SHT.dgn



REFERENCE BENCHMARK ELEV. XXX.XX  
BENCHMARK :  
LOCATION :

### LEGEND

<span style="border: 1px solid black; padding: 2px;">XX.XX</span>	EXISTING LENGTH		PROPOSED SIDEWALK		CLASS D PATCH
( )	EXISTING ELEVATION/SLOPE		PROPOSED SIDE CURB		DETECTABLE WARNINGS
		SC	TOP OF PROPOSED SIDE CURB		PROPOSED BRICK PAVERS

REFERENCE BENCHMARK ELEV. XXX.XX  
BENCHMARK :  
LOCATION :





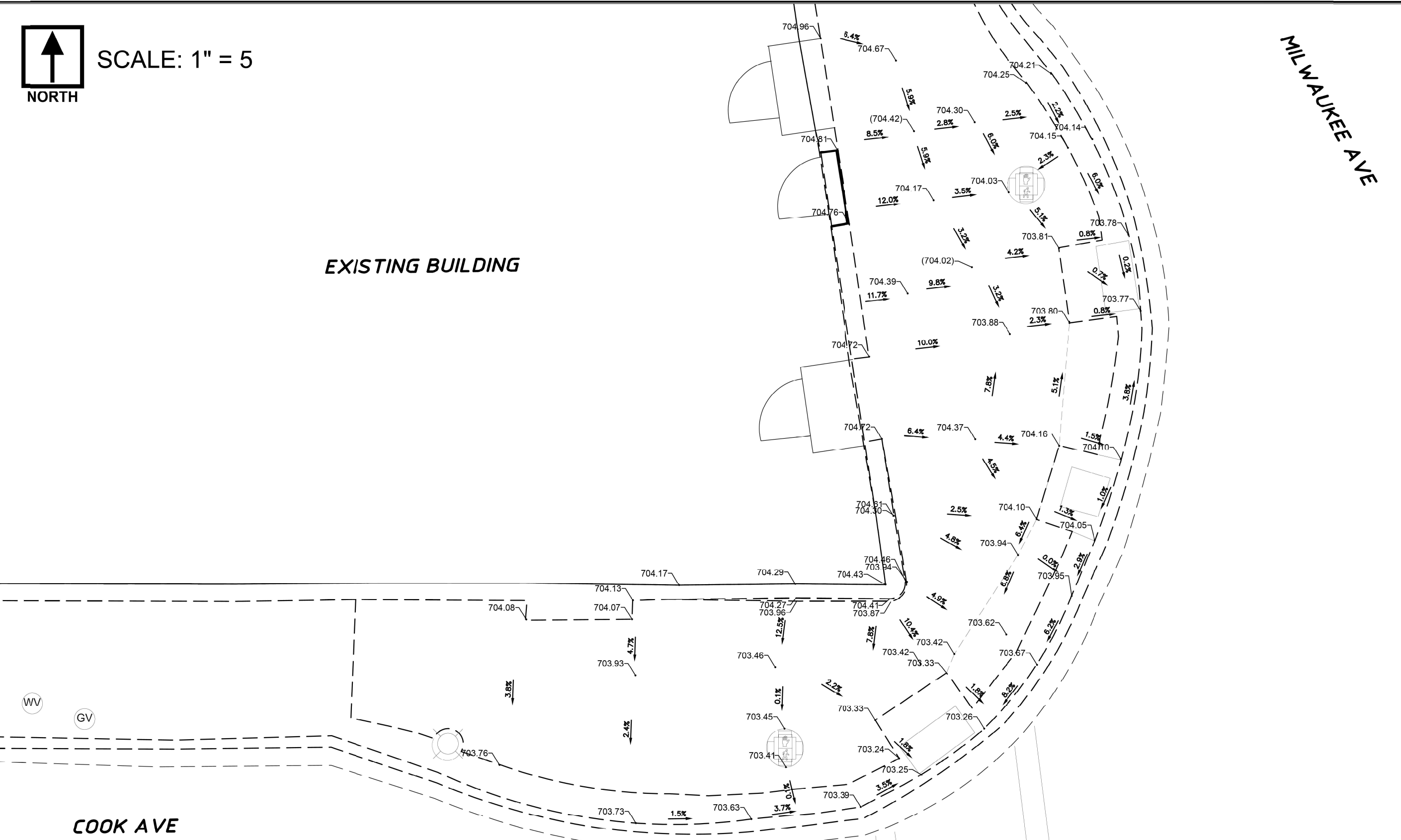


SCALE: 1" = 5'

MILWAUKEE AVE

EXISTING BUILDING

COOK AVE



# EXISTING CONDITION - COOK AND MILWAUKEE (N.W.C.)

DATE: 10/26/22

MODEL: Default  
FILE: Libertyville\Projects\DOT\Office\Bridget\_1176 (Part\_Ave)\CAD\Detail\Design\1176-00\Drawings

USER NAME = JammalAlramahl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/21/2024	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

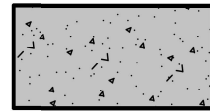
LIBERTYVILLE, ILLINOIS - IL ROUTE 21 AND COOK STREET  
NORTHWEST CORNER DETAIL SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

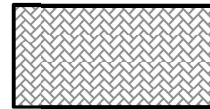
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 OVERLAY 23	LAKE	36	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62U77	



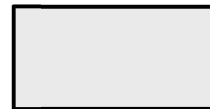
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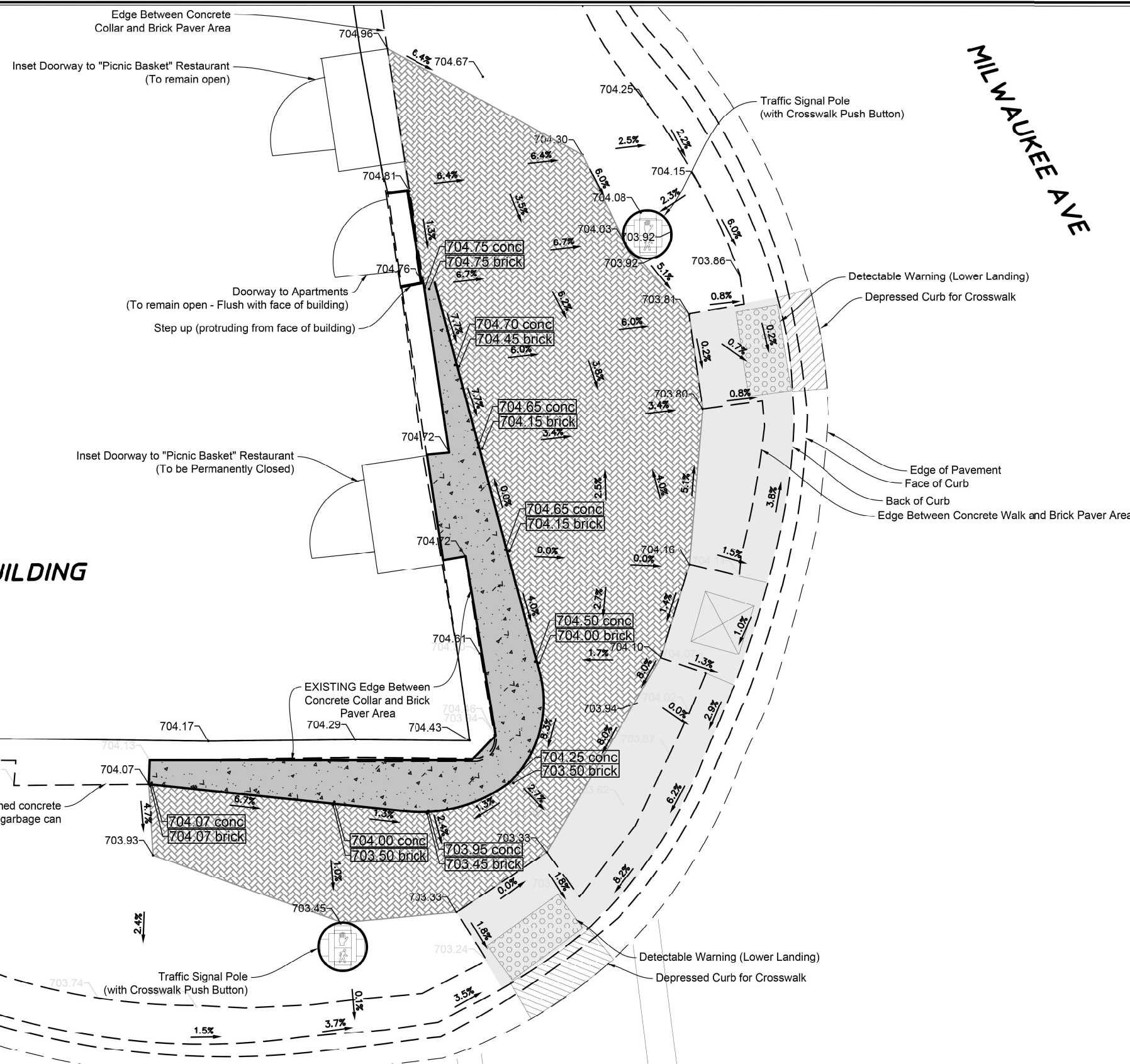
PROPOSED CONCRETE ISLAND  
(VARYING CURB HEIGHT ABOVE BRICK)



PROPOSED BRICK RE-GRADING  
(TRANSITION AREA)



IDOT PEDESTRIAN ACCESS ROUTE  
(TO REMAIN UNDISTURBED)



MILWAUKEE AVE

EXISTING BUILDING

COOK AVE



# PROPOSED CONCEPT - COOK AND MILWAUKEE (N.W.C.)

DATE: 12/22/22

MODEL: Default  
FILE: M:\MTC\_Plan\Subcontract\bea\com\PI\INDOT\Documents\IDOT\Office\Dir\rdet\_11\Project\11\_176 (Part\_Ave)\CAD\Drawal\Design\11\_176-04\Accessories

USER NAME = JammalAlramahi	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

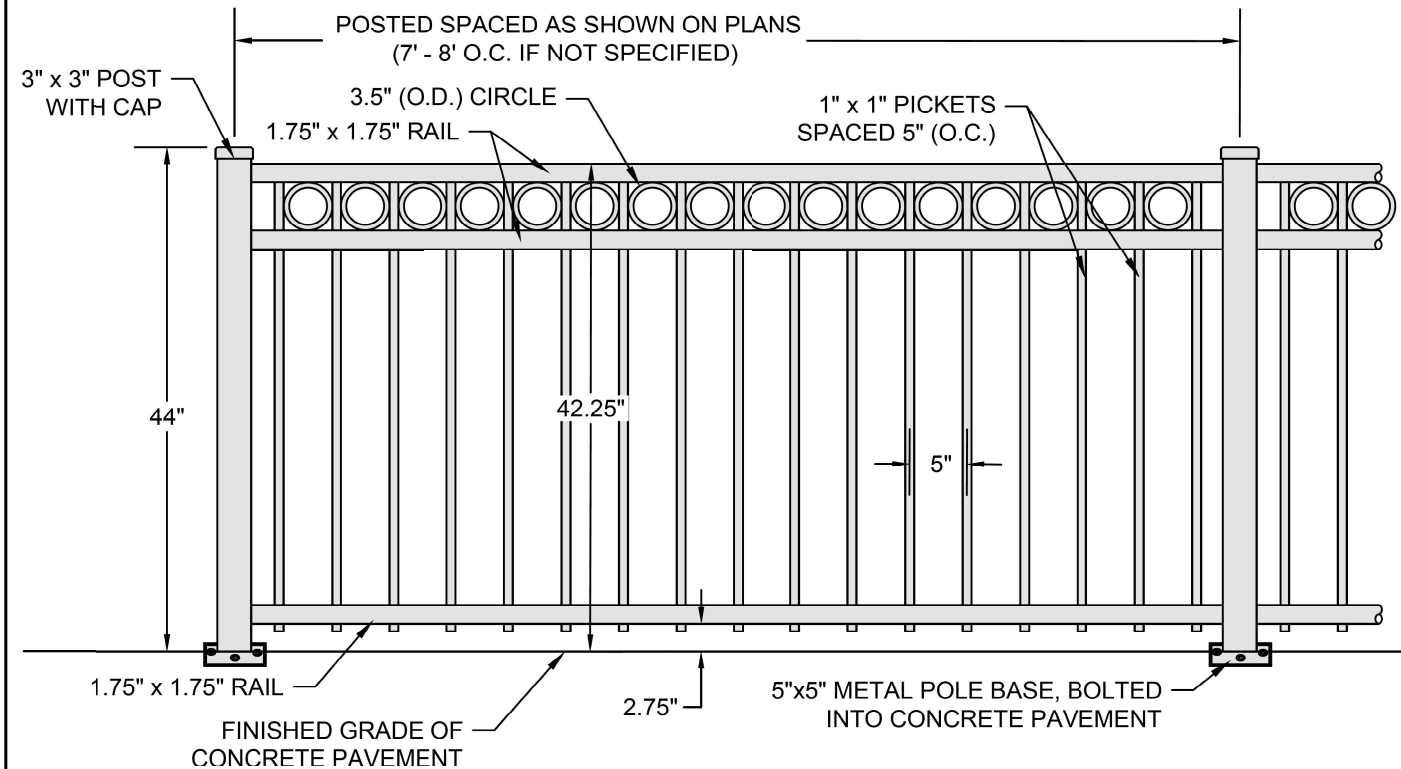
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIBERTYVILLE, ILLINOIS - IL ROUTE 21 AND COOK STREET  
NORTHWEST CORNER EXISTING DETAIL SHEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 OVERLAY 23	LAKE	36	20
CONTRACT NO. 62U77				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

EXAMPLE RAILING FOR REFERENCE



**NOTES:**

1. DECORATIVE FENCE SHALL BE "ELITE FENCE PRODUCTS" ALUMINUM COMMERCIAL GRADE STYLE "EFF-20 (WITH OPTIONAL CIRCLES)", OR APPROVED EQUAL.
2. ALL FENCING MATERIALS, PAINT, AND INSTALLATION METHODS SHALL MATCH THE EXISTING RAILING AT THE PROJECT SITE.
3. GENERAL FENCING SPECS (ALL SHOULD MATCH EXISTING RAILING AT SITE LOCATION):
  - MATERIAL: WROUGHT IRON
  - PAINT: BLACK
  - POST: 3" SQUARE
  - RAILS: 1.75" SQUARE
  - PICKETS: 1" SQUARE (SPACED 5" O.C.)

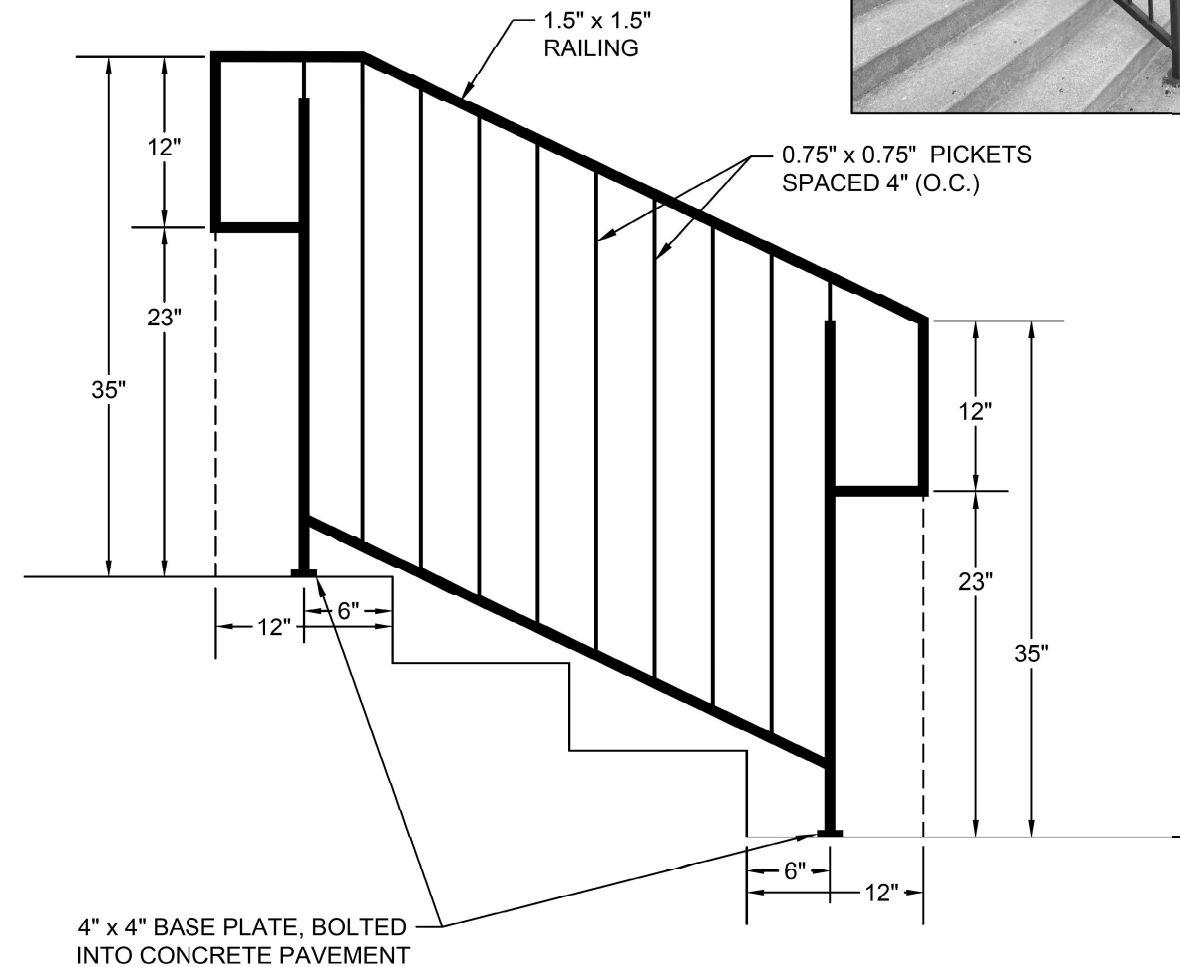
# DECORATIVE RAILING (DOWNTOWN)



LAST REVISION:  
05/25/2023

RAILING

EXAMPLE HANDRAIL FOR REFERENCE



**NOTES:**

1. HANDRAIL SHALL CONFORM TO ALL BUILDING CODE REQUIREMENTS
2. HANDRAIL MATERIAL SHALL BE WROUGHT IRON (PAINTED BLACK) TO MATCH THE EXISTING DECORATIVE RAILING AT THE PROJECT LOCATION.
3. SHOP DRAWING SHOULD BE PROVIDED BY THE CONTRACTOR FOR APPROVAL PRIOR TO FABRICATION/INSTALLATION
4. ALL RAILINGS AND PICKETS ARE "SQUARE" SHAPE

# HANDRAIL FOR STEPS



LAST REVISION:  
05/25/2023

HANDRAIL

MODEL: Default  
FILE NAME: \\libertyville.com\p\DOT\Documents\DOT Office\Drawings\176 (Part\_Ave)\CAD\Drawings\176-00\Drawings

USER NAME = JammalAlramahi	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/21/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIBERTYVILLE, ILLINOIS  
DECORATIVE RAILING AND HANDRAIL DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 OVERLAY 23	LAKE	36	21
CONTRACT NO. 62U77				
ILLINOIS FED. AID PROJECT				





MODEL: Default  
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 PROJECT: 176 (Part - Ave) \CAD\2023\Design\176-AD\Accessories

USER NAME = JammalAlramahl	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/21/2024	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

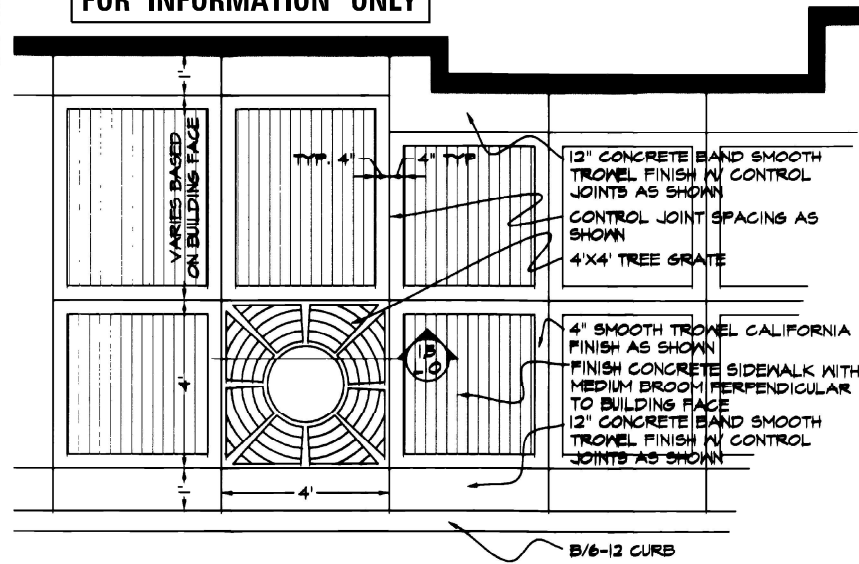
**LIBERTYVILLE, ILLINOIS**  
**IL ROUTE 21 AT LAKE STREET – FINAL RENDERING**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 OVERLAY 23	LAKE	36	22
			CONTRACT NO. 62U77	
		ILLINOIS	FED. AID PROJECT	

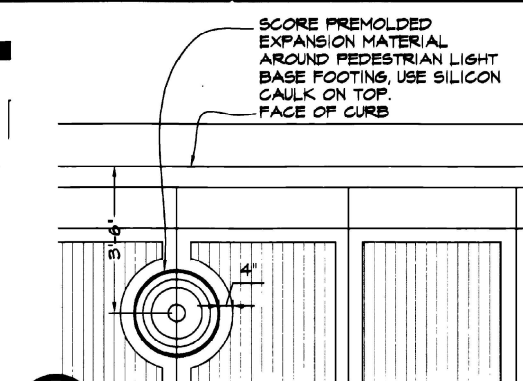
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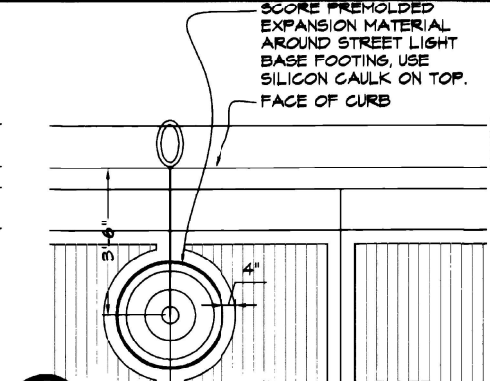
FOR INFORMATION ONLY



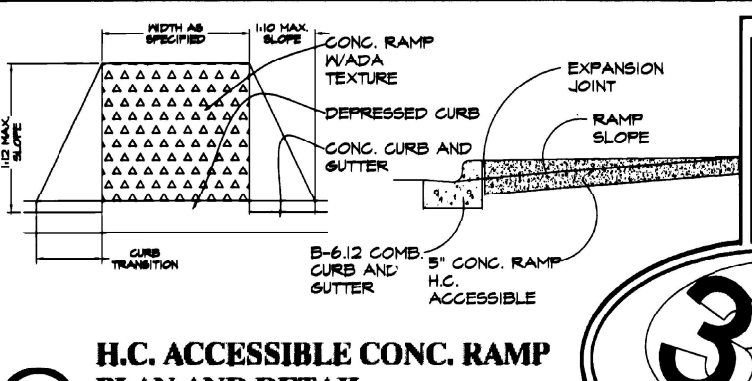
**1 TREE GRATE / SIDEWALK FINISH DETAIL**  
SCALE: 1/2"=1'-0"



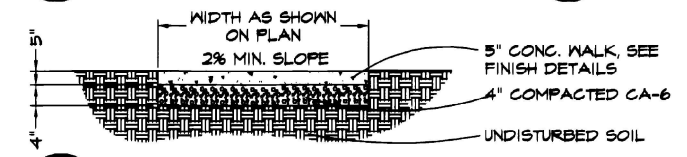
**2 PEDESTRIAN LIGHT DETAIL**  
SCALE: 1/2"=1'-0"



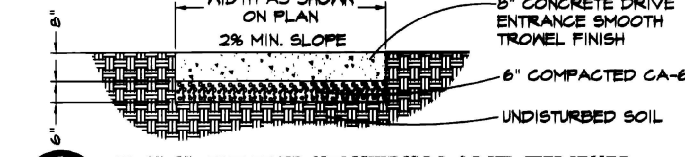
**3 STREET LIGHT DETAIL**  
SCALE: 1/2"=1'-0"



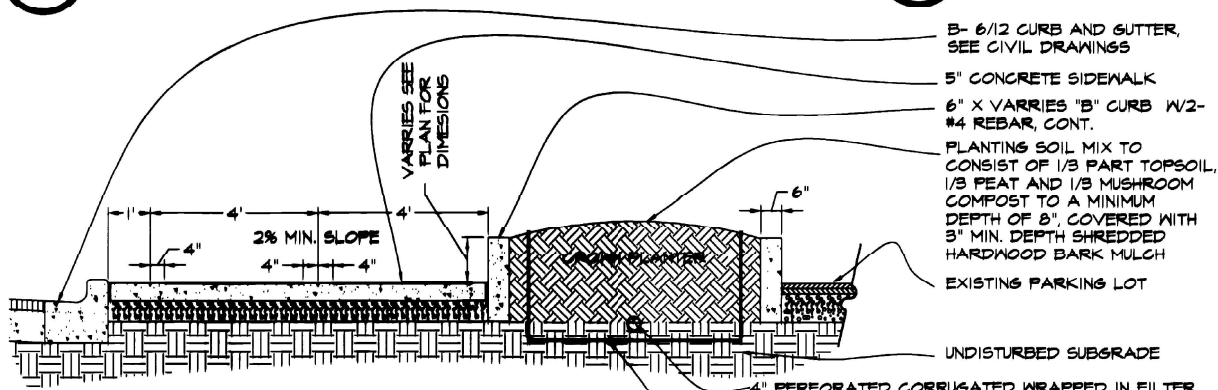
**6 H.C. ACCESSIBLE CONC. RAMP PLAN AND DETAIL**  
SCALE: 1/2"=1'-0"



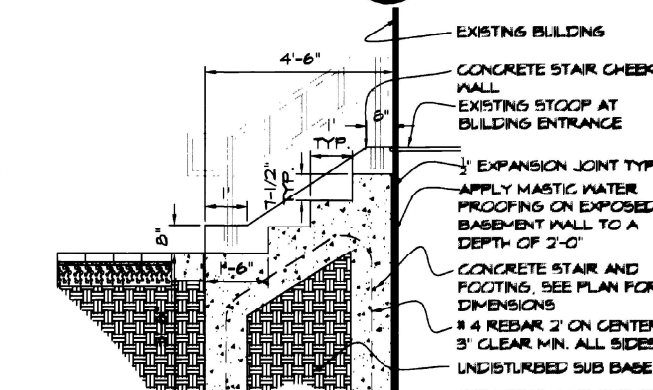
**4 P.C.C. SIDEWALK SECTION**  
SCALE: 1/2"=1'-0"



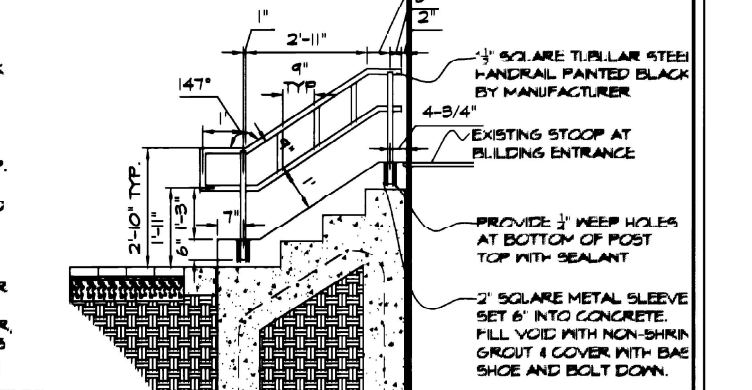
**5 P.C.C. DRIVE SECTION AND FINISH**  
SCALE: 1/2"=1'-0"



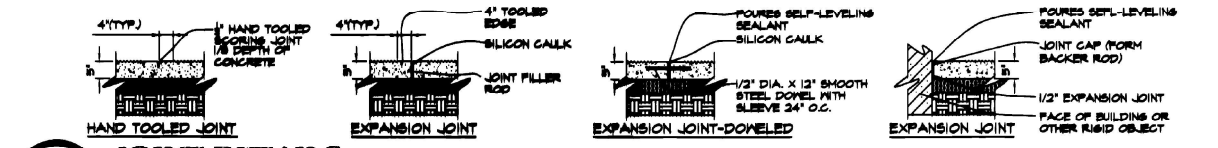
**7 PLANTER CURB SECTION**  
SCALE: 1/2"=1'-0"



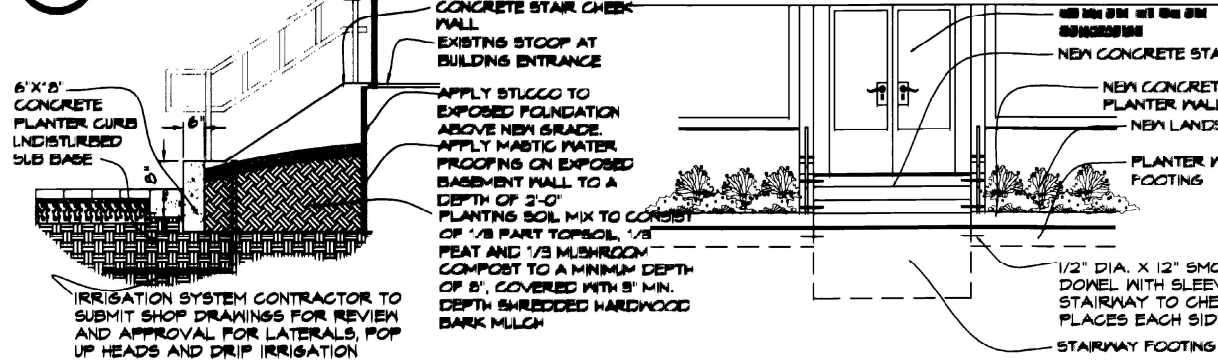
**10 P.C.C. STAIR W/ 7-1/2\"/>**



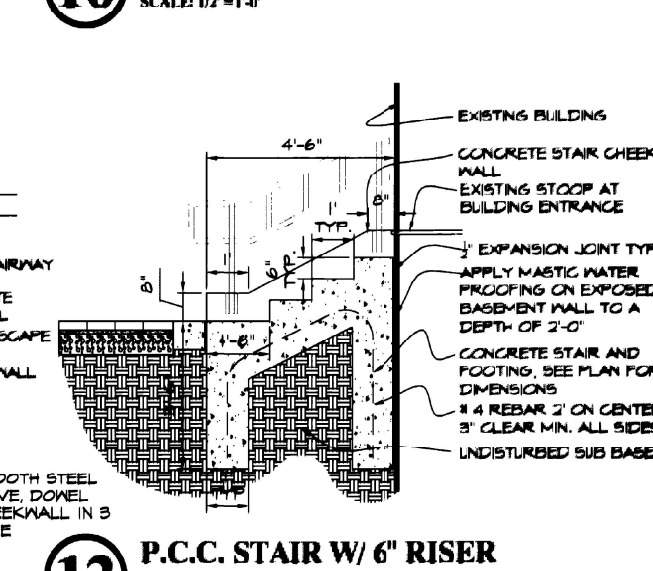
**11 HANDRAIL FOR STAIR W/ 7-1/2\"/>**



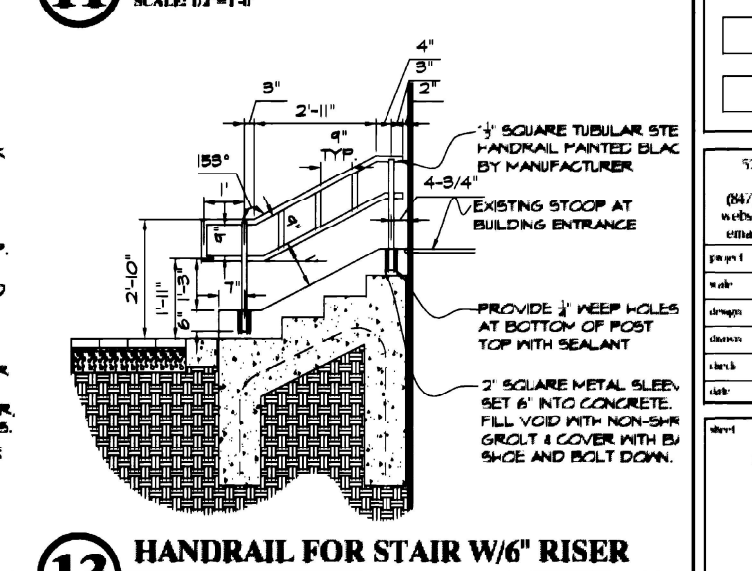
**8 JOINT DETAILS**  
SCALE: 1/2"=1'-0"



**9 P.C.C. PLANTER W/ STAIR**  
SCALE: 1/2"=1'-0"



**12 P.C.C. STAIR W/ 6\"/>**



**13 HANDRAIL FOR STAIR W/ 6\"/>**



**14 P.C.C. PLANTER W/ STAIR SECTION**  
SCALE: 1/4"=1'-0"



2001 LIBERTYVILLE STREETSCAPE AS BUILT DRAWINGS  
SITE DETAILS II

579 North Barron Boulevard  
Grayslake, IL 60030  
(847) 225-1891 (847) 225-1892 FAX  
website: www.3ddesignstudio.com  
email: 3dstudio@worldnet.att.net

SYNOPT	JOB NUMBER
DATE	INDICATED
DESIGNED	30
CHECKED	30
DRAWN	30
DATE	7/21/08

**L6**  
of 6 sheet(s)

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PROJECT: 1176 (Park Ave)\CAD\3d\3d\Drawings\1176-04.dwg

Z:\30 CLIENT FILES \Libertyville\Streetscape Projects\176\03 Construction Drawings\SHS 04 SITE LAYOUT PLAN 3.DWG 00:00 AM (TUE) 00/00/000000

USER NAME	DESIGNED	REVISIONS
JammalAlramahi	-	-
	DRAWN	-
	CHECKED	-
	DATE	-

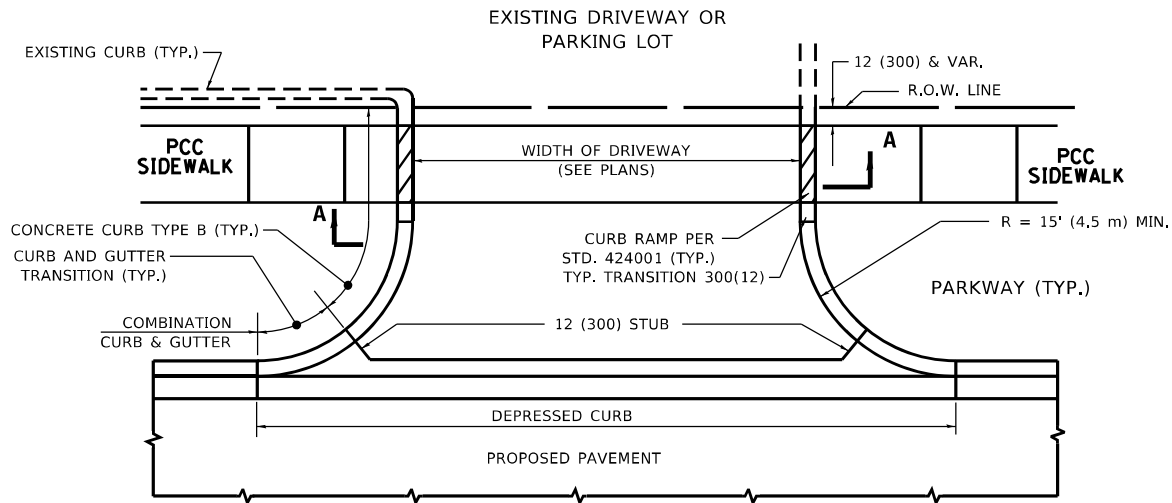
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 176 (PARK AVE.) - GARFIELD RD. TO PARK PL  
STEP AND PLANTING BED DETAILS

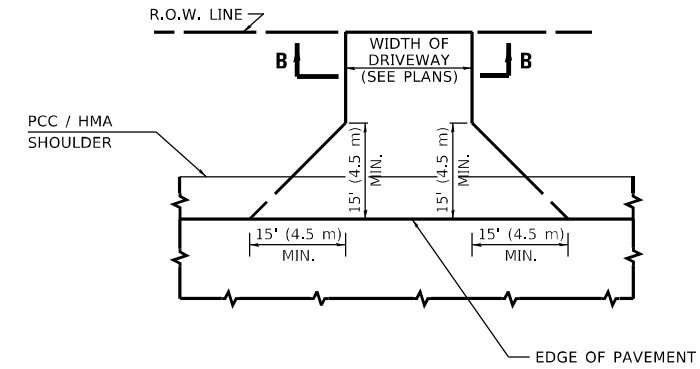
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	23

CONTRACT NO. 62U77  
ILLINOIS FED. AID PROJECT

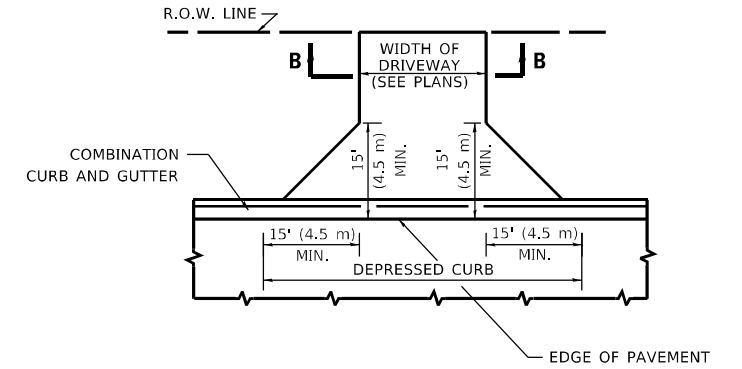
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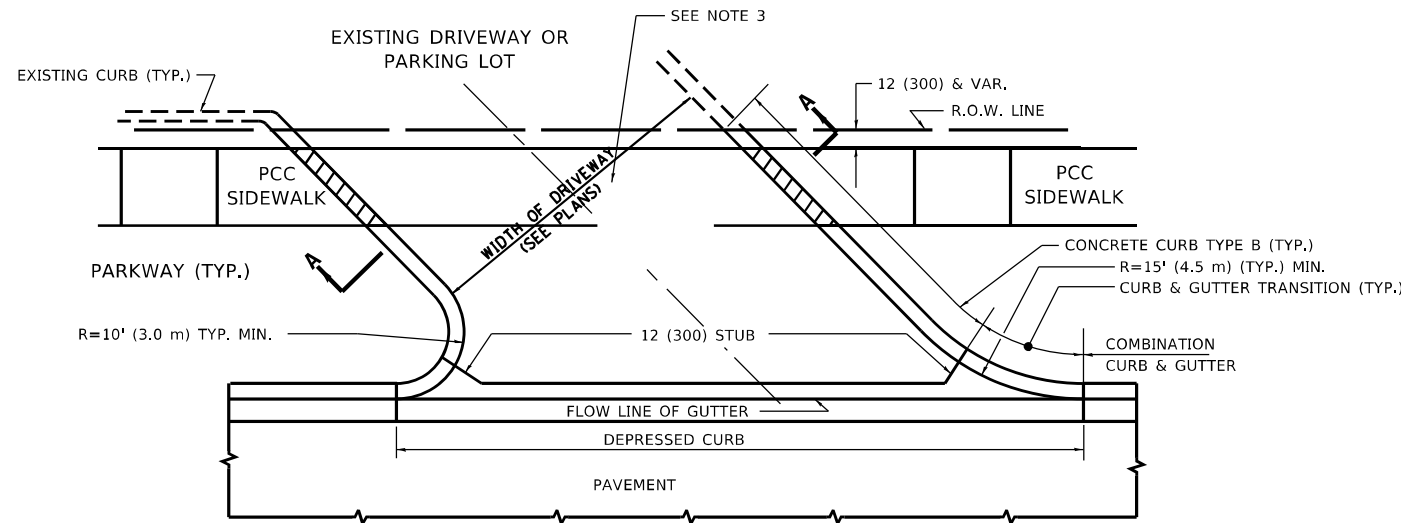
**WITH CONCRETE CURB, TYPE B**



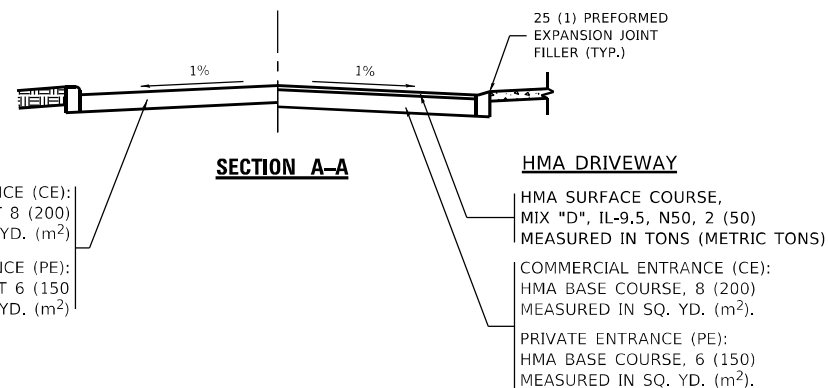
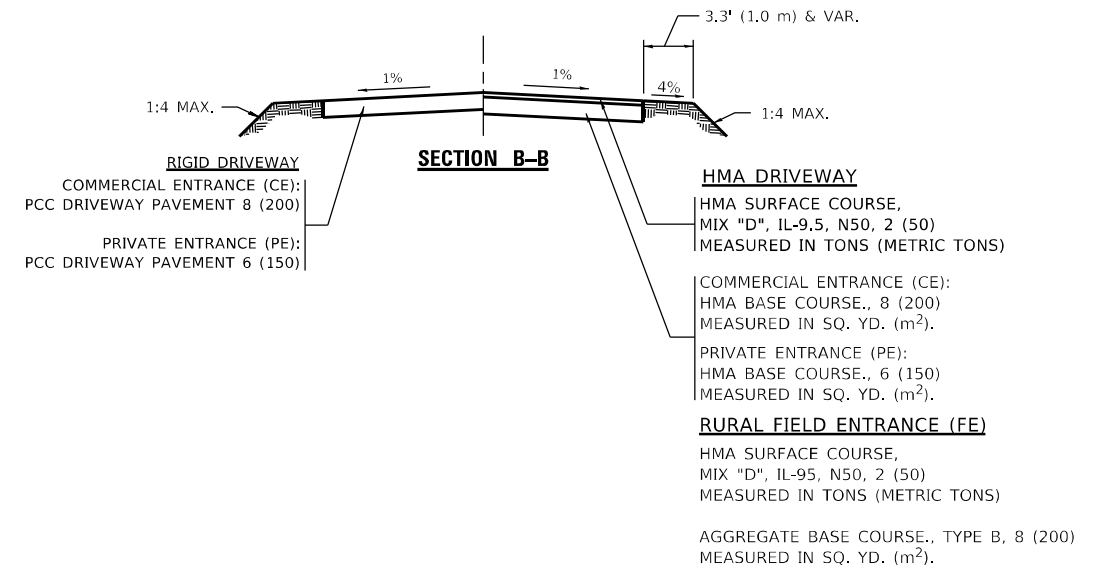
**ADJACENT TO PCC /HMA SHOULDER**



**ADJACENT TO CURB AND GUTTER**



**WITH CONCRETE CURB, TYPE B**



**GENERAL NOTES**

1. DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.
2. COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

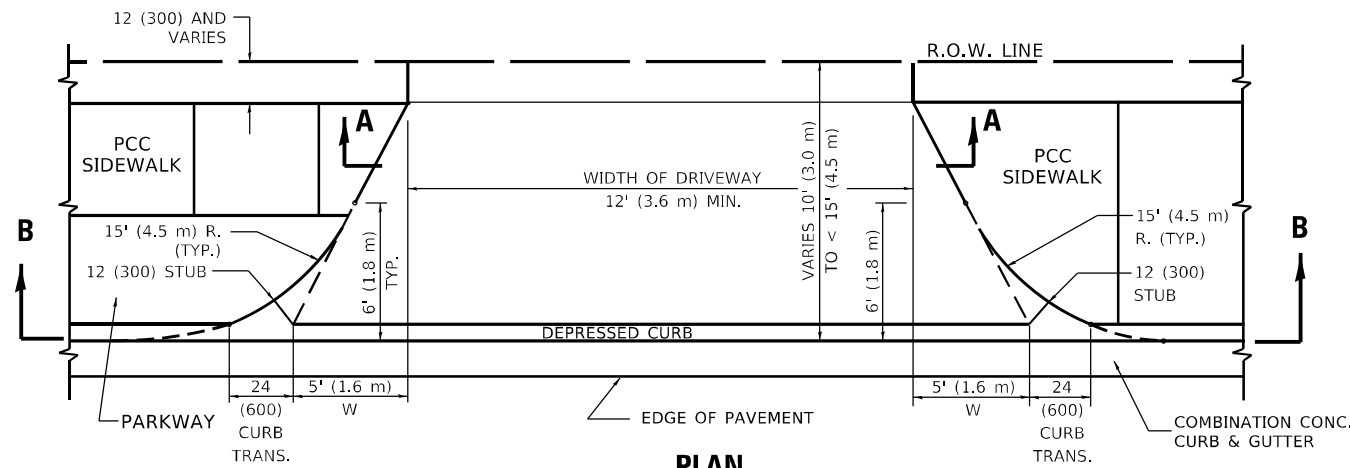
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USER NAME = JammalAlramahl	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - K. SMITH 08-28-19
PLOT DATE = 3/21/2024	DATE - 11-04-95	REVISED - K. SMITH 11-18-22

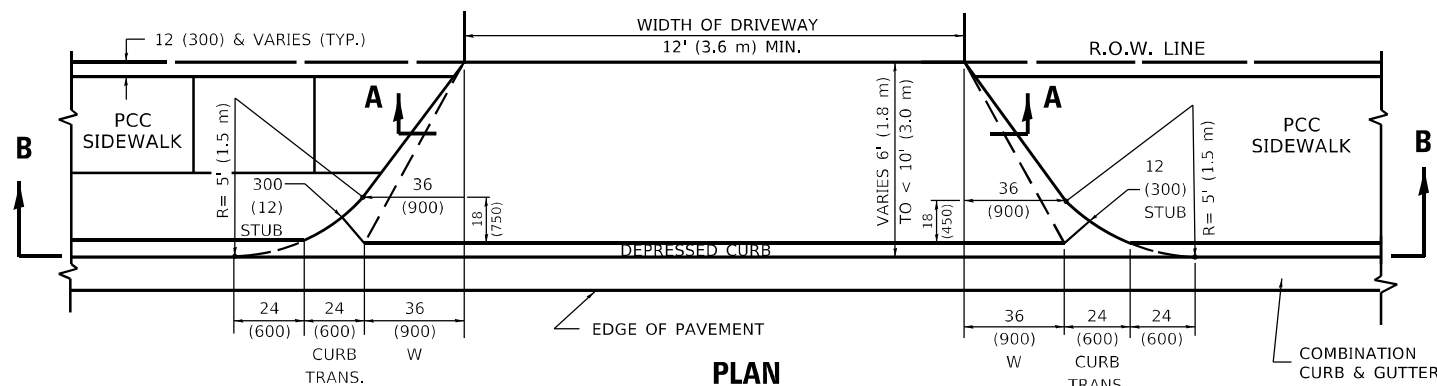
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB &amp; EDGE OF SHOULDER ≥ 15'(4.5m)</b>			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

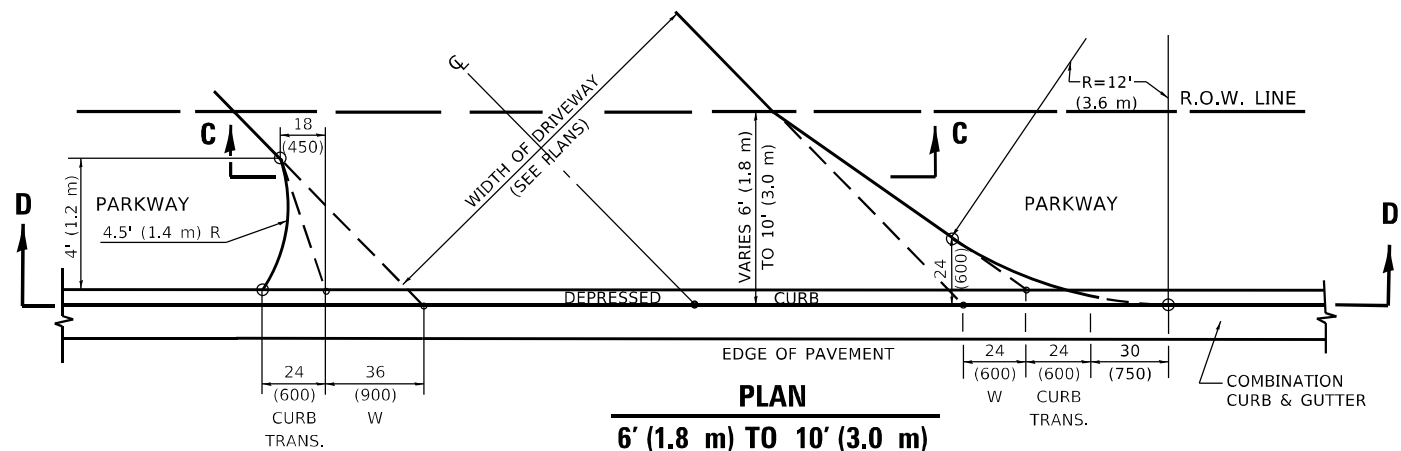
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	24
<b>BD400-01 (BD-01)</b>			CONTRACT NO. 62U77	
ILLINOIS FED. AID PROJECT				



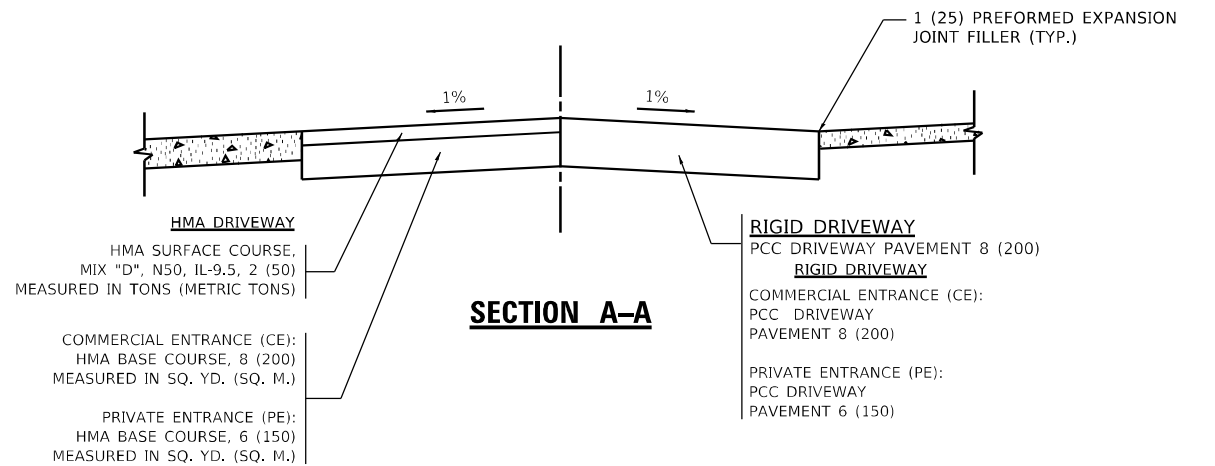
**PLAN**  
10' (3.0 m) TO < 15' (4.5 m)



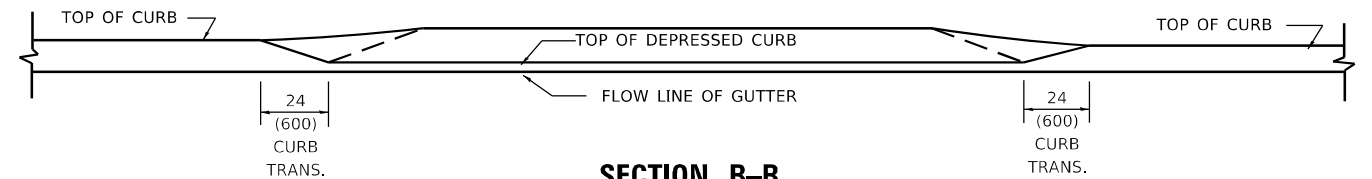
**PLAN**  
6' (1.8 m) TO < 10' (3.0 m)



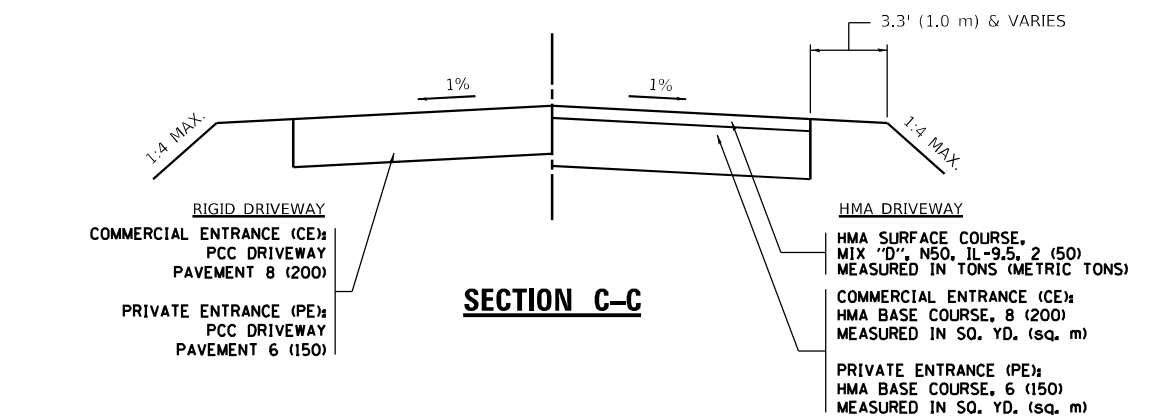
**PLAN**  
6' (1.8 m) TO 10' (3.0 m)



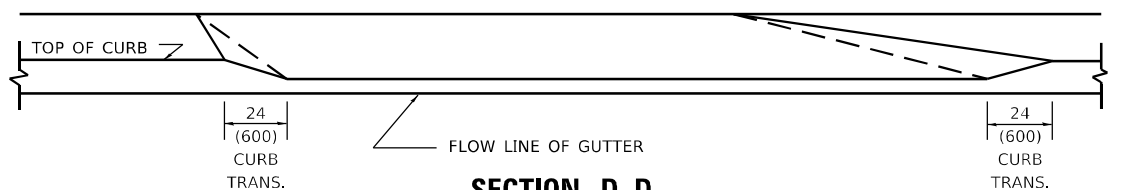
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

**GENERAL NOTES**

- DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.
- WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE PCC SIDEWALK SHALL EXTEND TO THE BACK OF CURB.
- "W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

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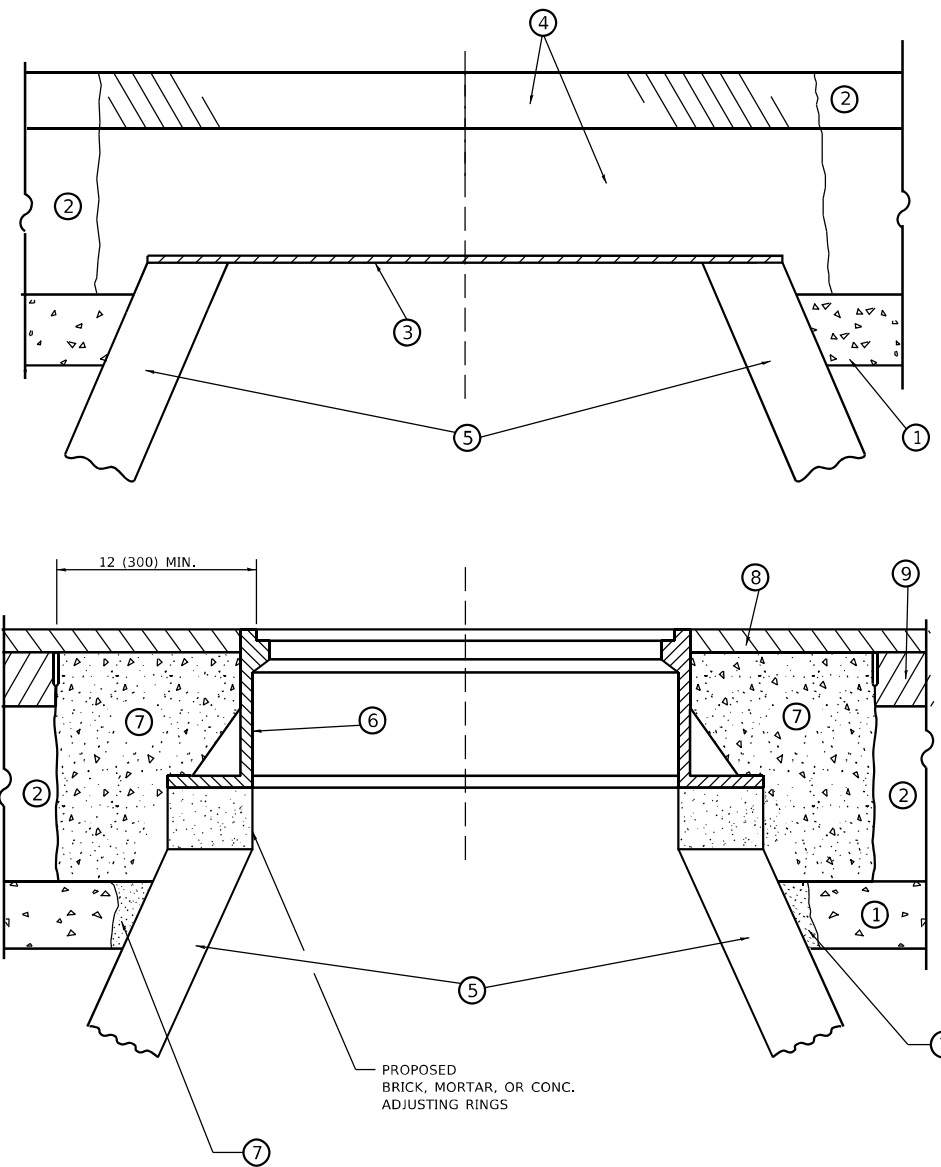
USER NAME = JammalAlramahl	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - K. SMITH 08-27-19
PLOT DATE = 3/21/2024	DATE - 11-06-95	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS**  
**DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	25
<b>BD400-02 (BD-02)</b>		CONTRACT NO. 62U77		
ILLINOIS		FED. AID PROJECT		



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT  
WITH MILLING**

**NOTES**

1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

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

**LOCATION OF STRUCTURES**

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

**BASIS OF PAYMENT**

1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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USER NAME = JammalAlramahl	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11
	DRAWN -	REVISED - R. BORO 12-06-11
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - K. SMITH 11-18-22
PLOT DATE = 3/21/2024	DATE - 10-25-94	REVISED - K. SMITH 09-15-23

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR  
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

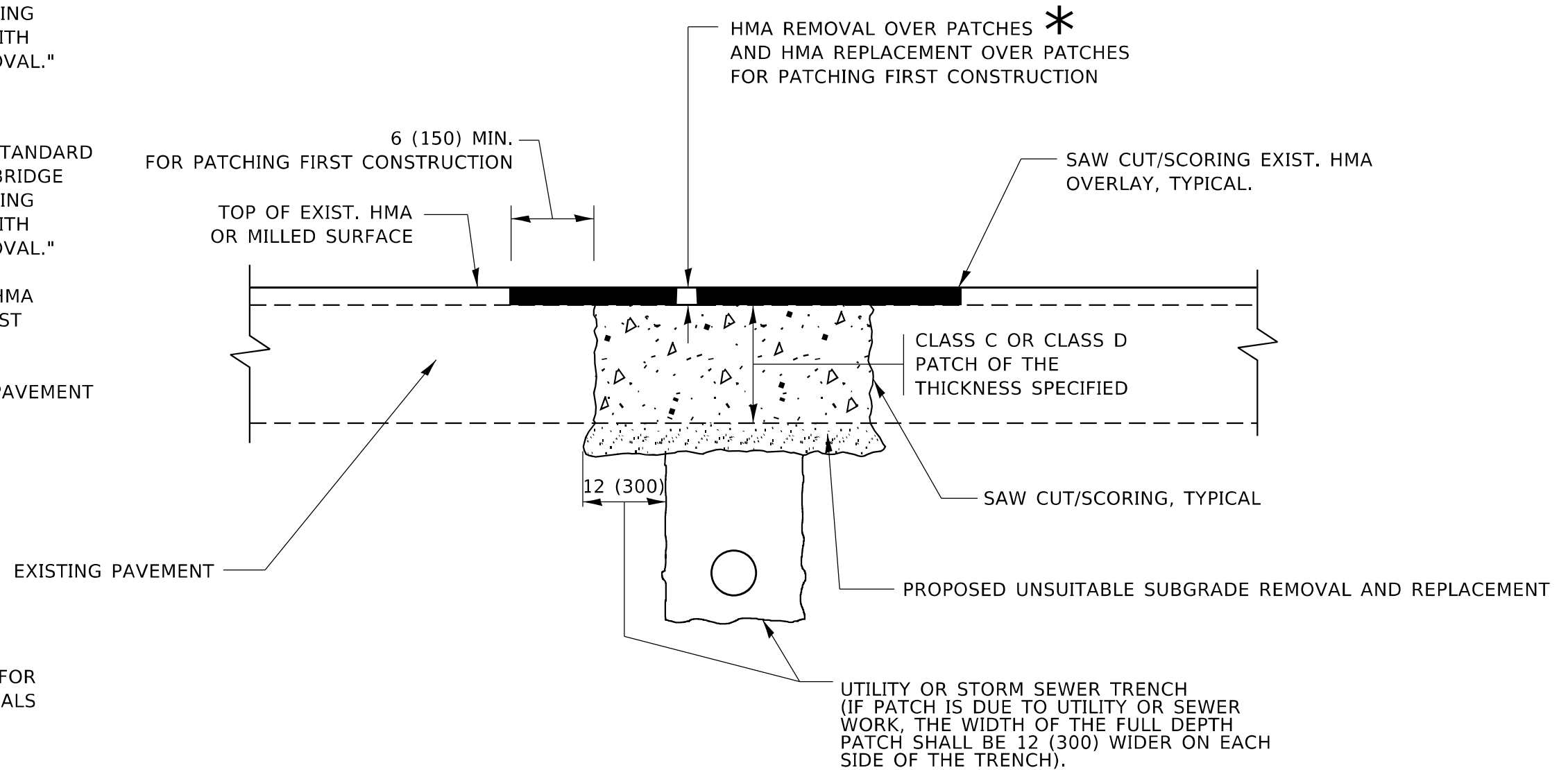
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	26
<b>BD600-03 (BD-08)</b>		CONTRACT NO. 62U77		
ILLINOIS FED. AID PROJECT				

**METHOD OF MEASUREMENT**

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

**BASIS OF PAYMENT**

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**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.

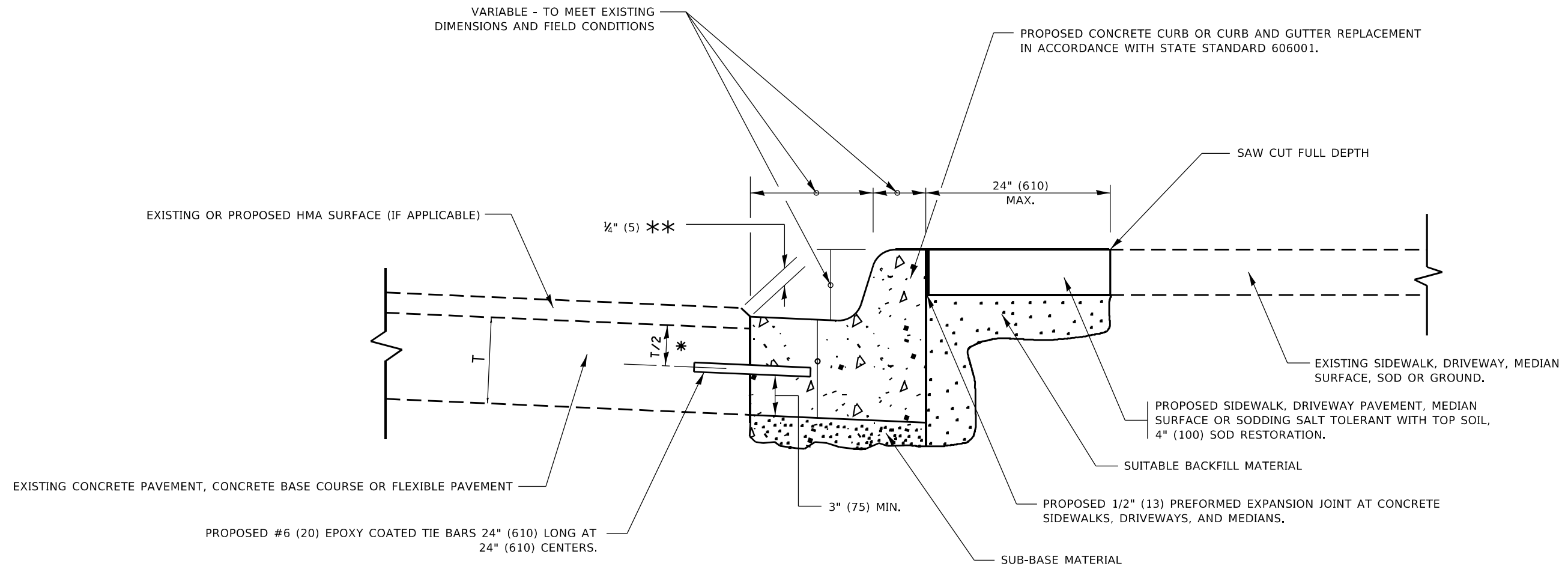
**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

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 = JammalAlramahi	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED - R. BORO 09-04-07					1238	FAU 1238 23 OVERLAY	LAKE	36	27
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08		SCALE: NONE			SHEET 1 OF 1 SHEETS STA. TO STA.			BD400-04 (BD-22) CONTRACT NO. 62U77	
PLOT DATE = 3/21/2024	DATE - 10-25-94	REVISED - K. SMITH 11-18-22		ILLINOIS FED. AID PROJECT							



- \* 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.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

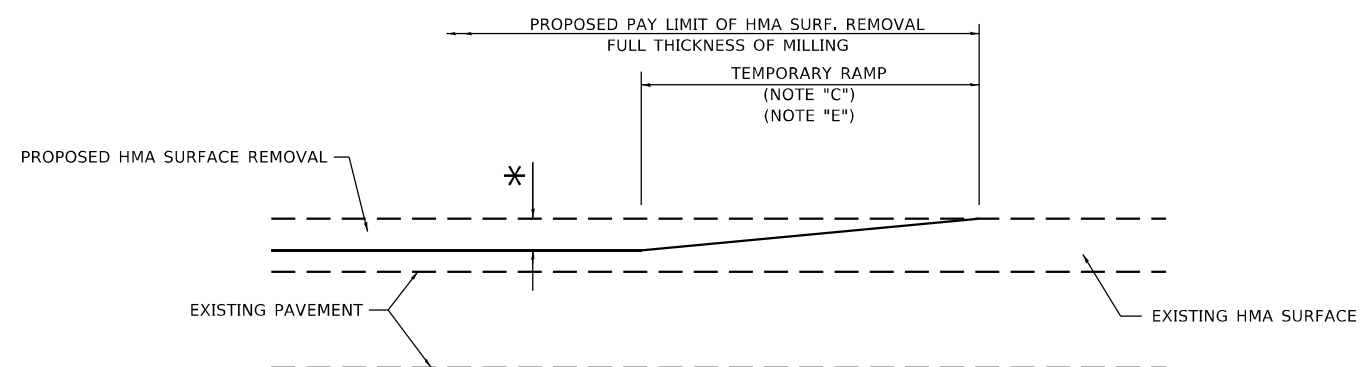
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USER NAME = JammalAlramahi	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 3/21/2024	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

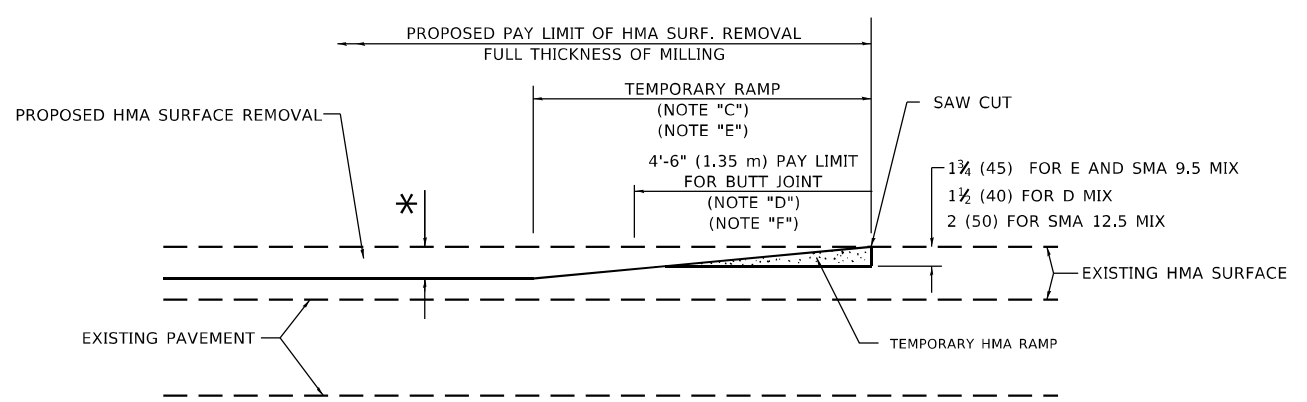
<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	28
<b>BD600-06 (BD-24)</b>		CONTRACT NO. 62U77		
ILLINOIS FED. AID PROJECT				



**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

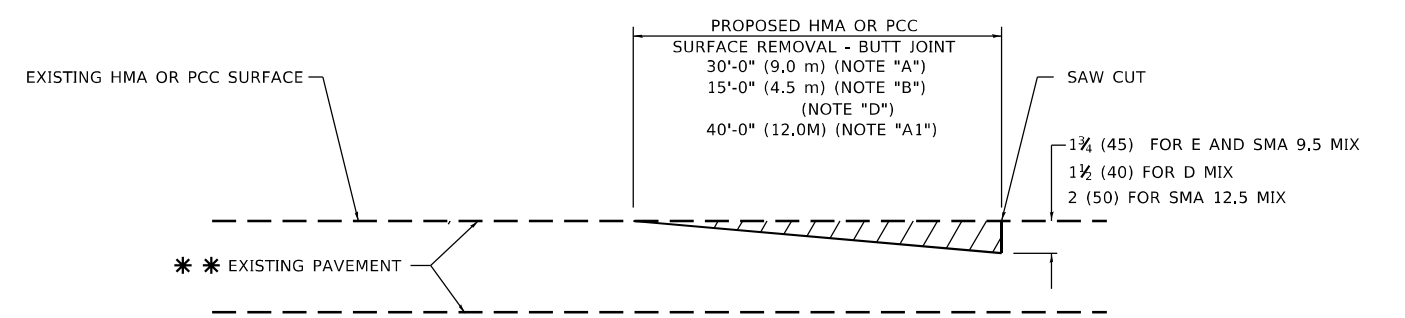
**OPTION 1**



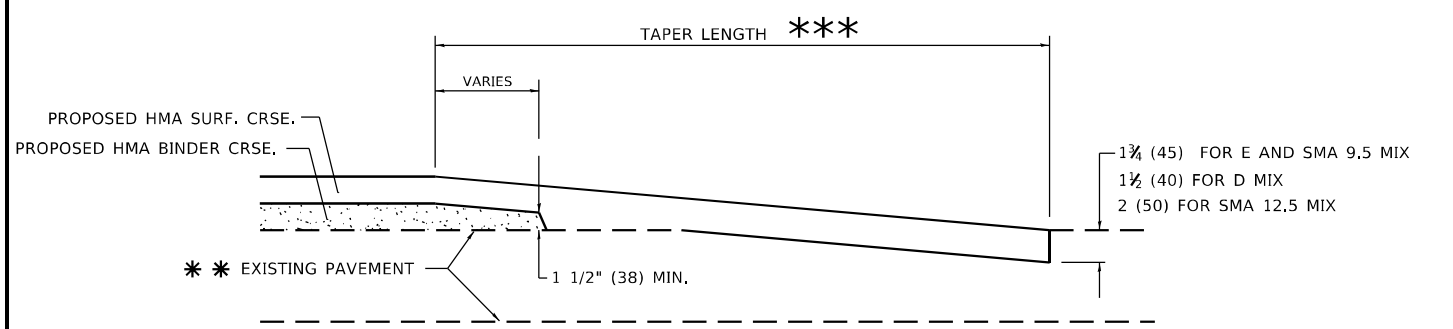
**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



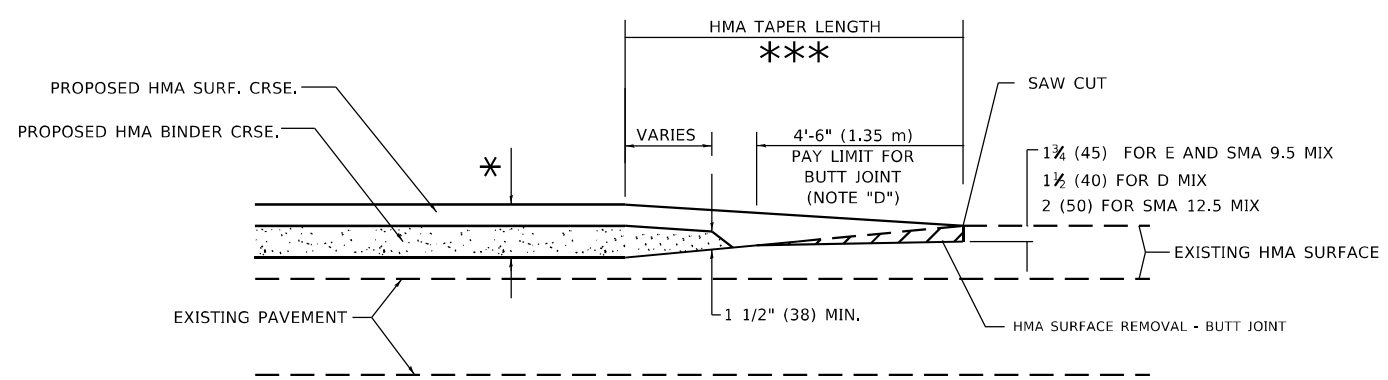
**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

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



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

**GENERAL NOTES**

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- 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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. 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**

- 1. 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".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

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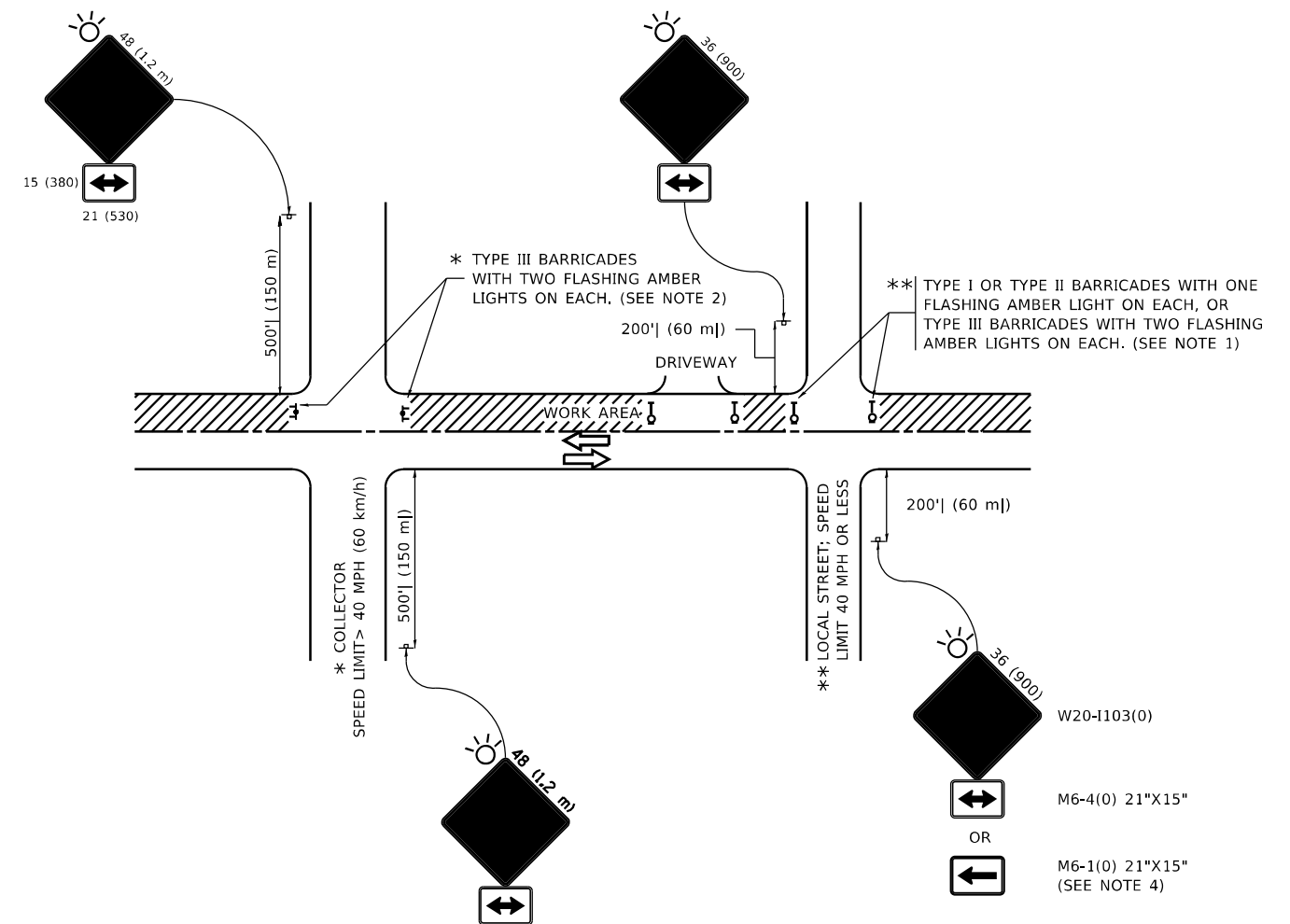
USER NAME = JammalAlramahl	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 3/21/2024	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

**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.
1238	FAU 1238 23 OVERLAY	LAKE	36	29
<b>BD400-05 BD-32</b>		CONTRACT NO. 62U77		
ILLINOIS FED. AID PROJECT				



**NOTES:**

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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 = JammalAlramahl	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 = 3/21/2024	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

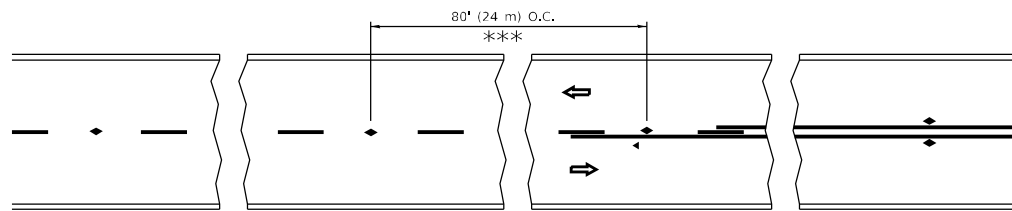
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

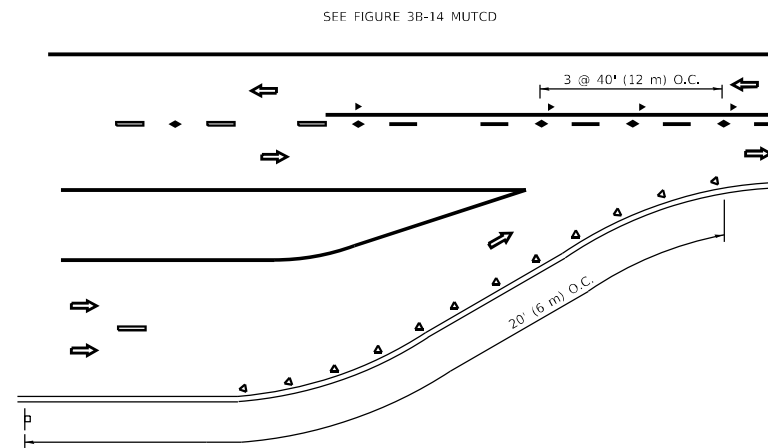
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<b>TC-10</b>			CONTRACT NO. 62U77	
ILLINOIS FED. AID PROJECT				



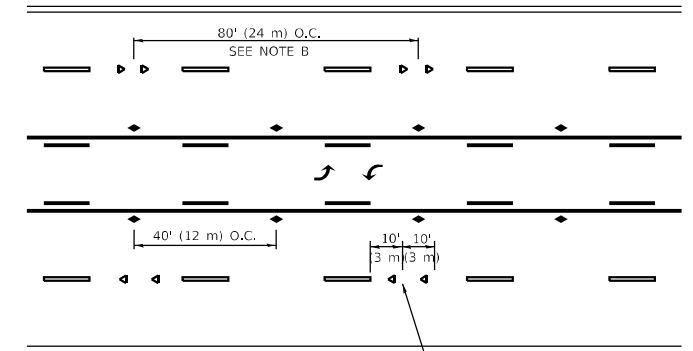


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

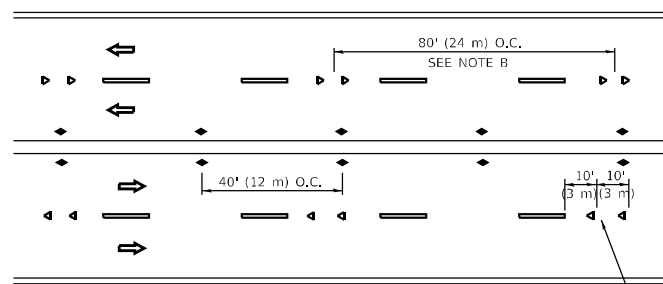
**TWO-LANE/TWO-WAY**



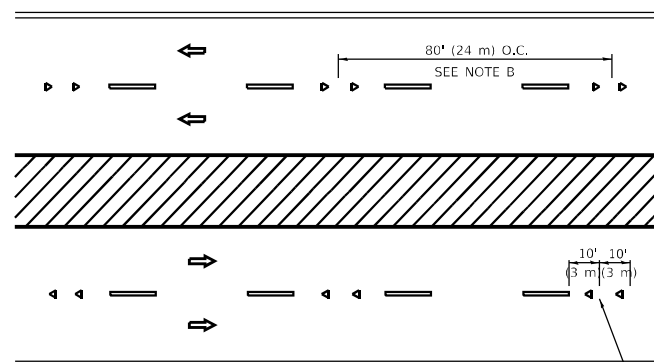
**LANE REDUCTION TRANSITION**



**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**

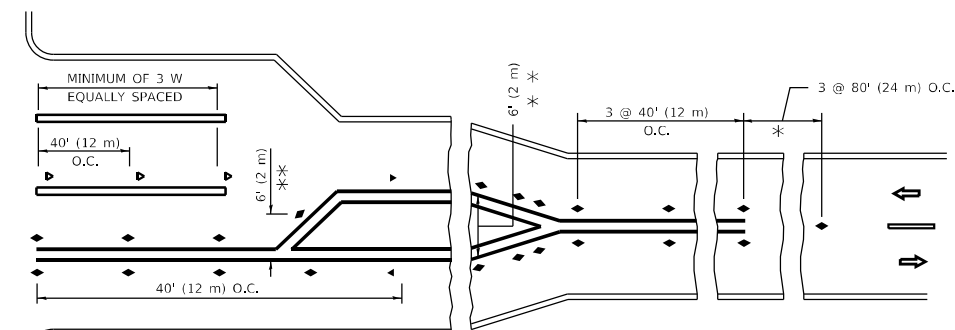
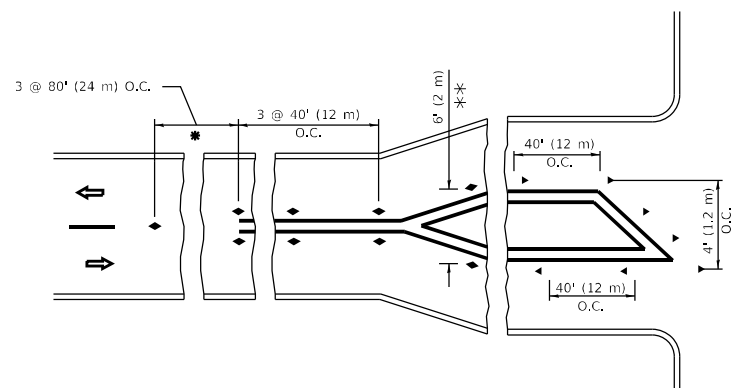
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**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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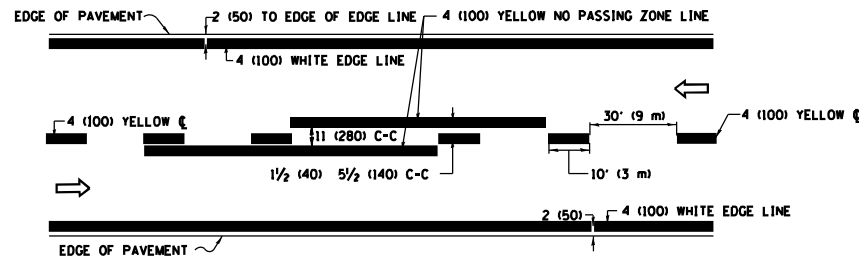
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 3/21/2024	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

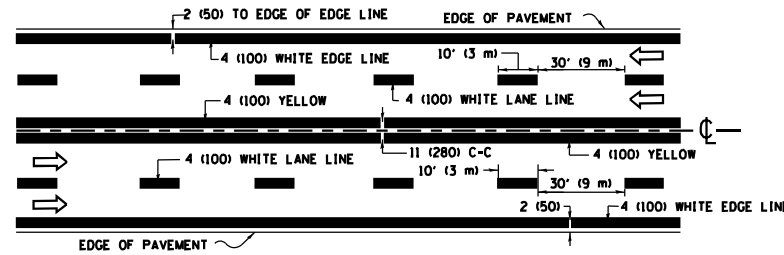
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

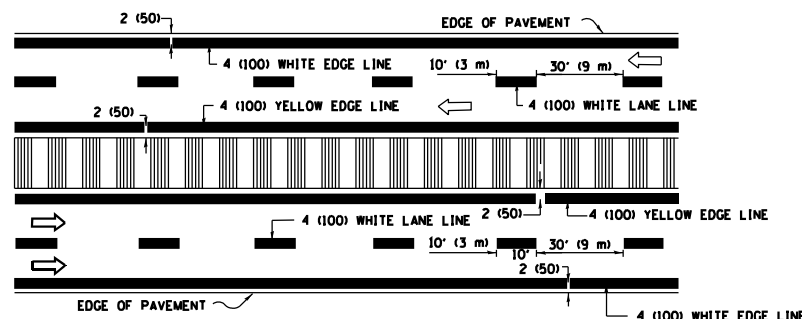
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	31
TC-11			CONTRACT NO. 62U77	
ILLINOIS FED. AID PROJECT				



### 2-LANE ROADWAY

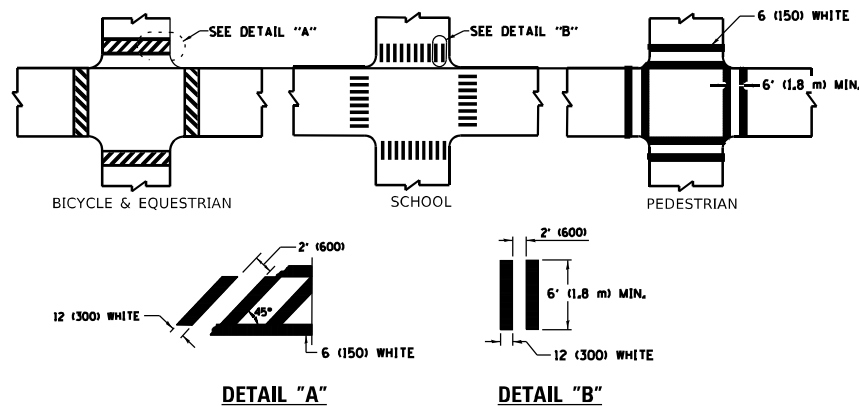


### MULTI-LANE UNDIVIDED



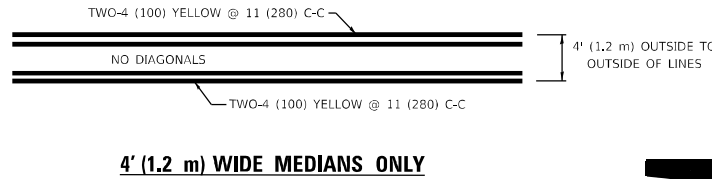
### MULTI-LANE DIVIDED WITH MEDIAN

### TYPICAL LANE AND EDGE LINE MARKING

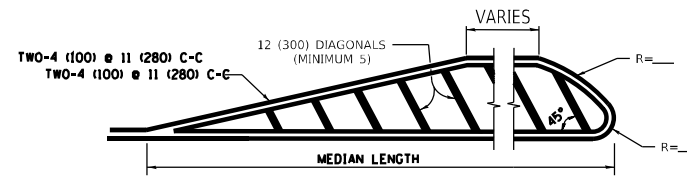


### TYPICAL CROSSWALK MARKING

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

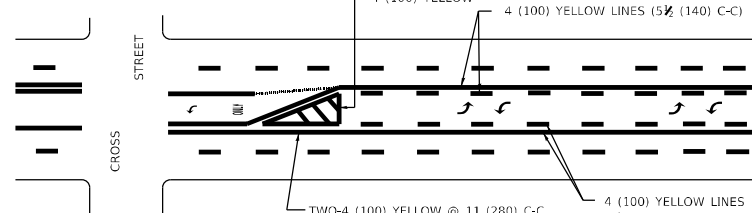


### 4' (1.2 m) WIDE MEDIANS ONLY



### MEDIANS OVER 4' (1.2 m) WIDE

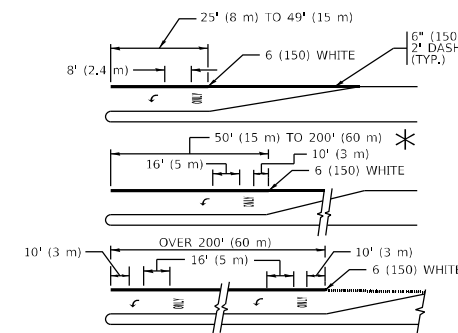
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



### TYPICAL PAINTED MEDIAN MARKING

### MEDIAN WITH TWO-WAY LEFT TURN LANE

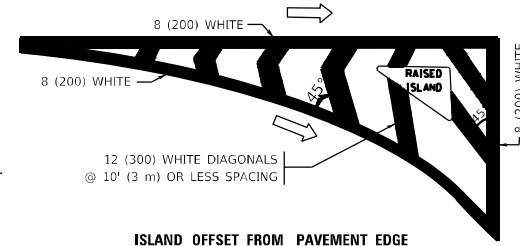
### TYPICAL PAINTED MEDIAN MARKING



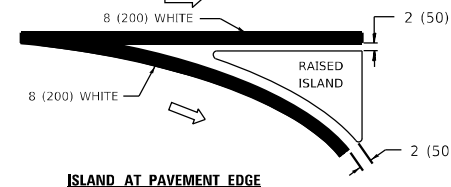
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

### TYPICAL LEFT (OR RIGHT) TURN LANE

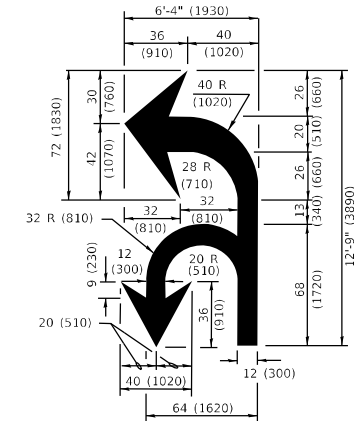
### TYPICAL TURN LANE MARKING



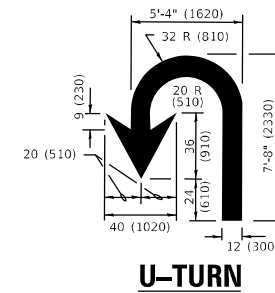
### ISLAND OFFSET FROM PAVEMENT EDGE



### TYPICAL ISLAND MARKING



### COMBINATION LEFT AND 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
<b>LANE LINES</b>	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 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°	<b>SOLID</b>	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"	<b>SOLID</b>	<b>WHITE</b>	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	<b>SOLID</b>	<b>WHITE - RIGHT YELLOW - LEFT</b>	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	<b>SOLID</b>	<b>WHITE</b>	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	<b>SOLID</b>	<b>WHITE</b>	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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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 3/21/2024	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
		REVISED - C. JUCIUS 04-12-16

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 1 OF 2 SHEETS	STA. TO STA.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						1238	FAU 1238 23 OVERLAY	LAKE	36	32
						TC-13		CONTRACT NO. 62U77		
						ILLINOIS		FED. AID PROJECT		

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

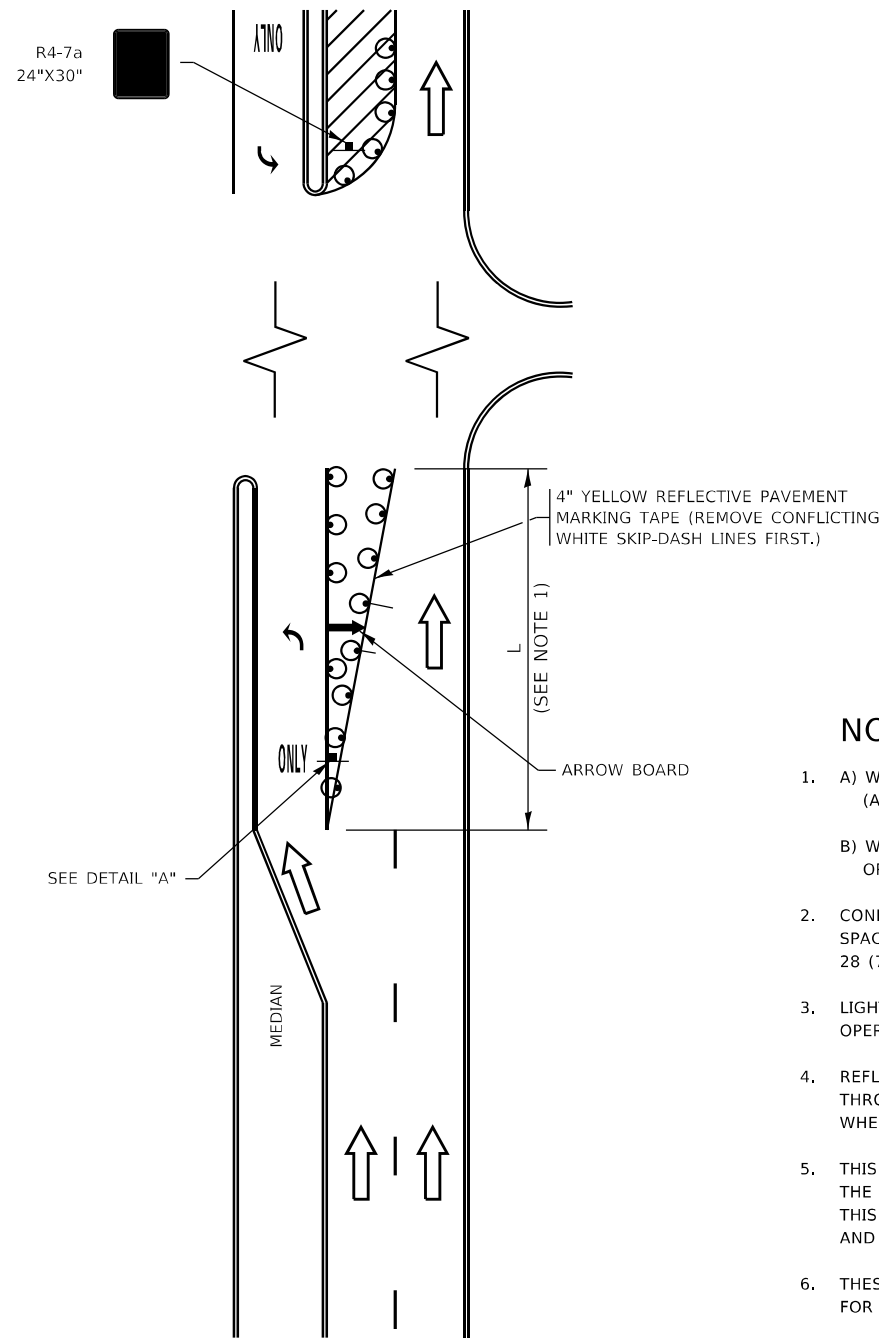


FIGURE 1

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

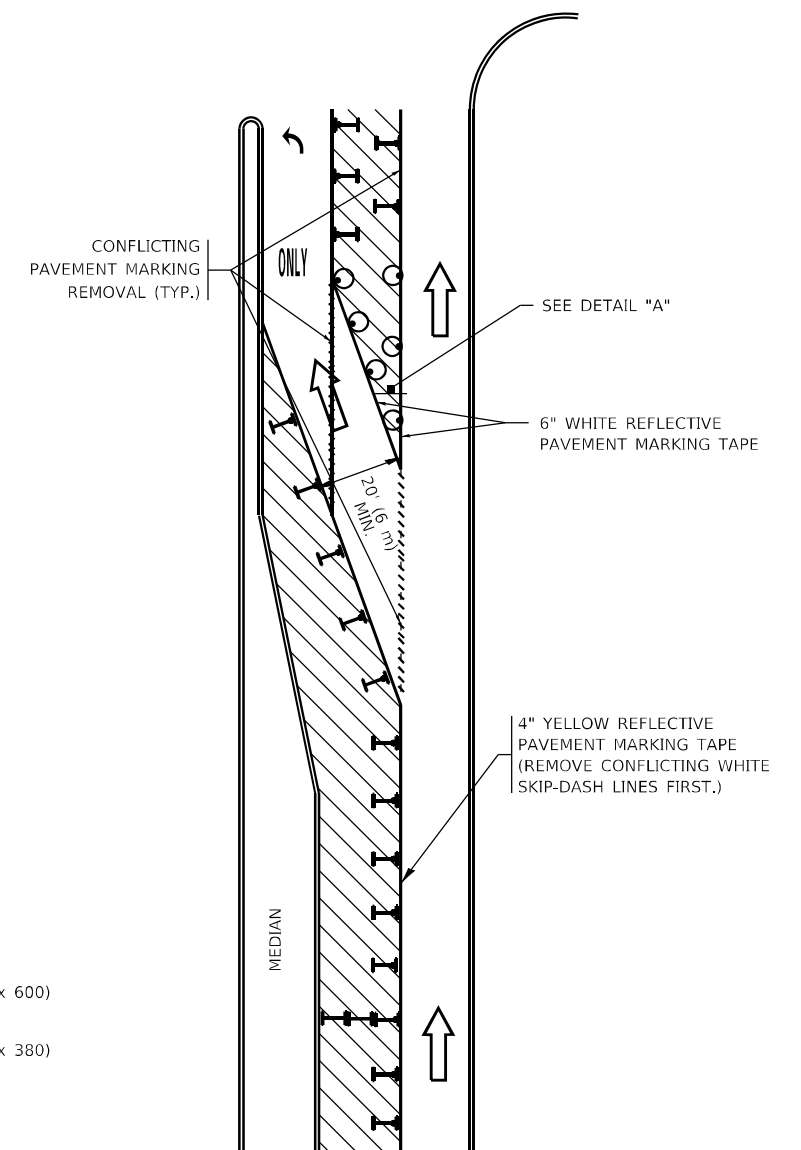


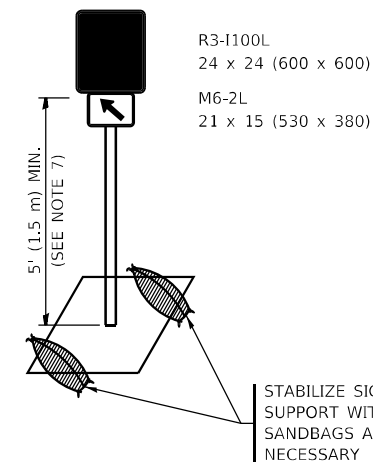
FIGURE 2

## 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.

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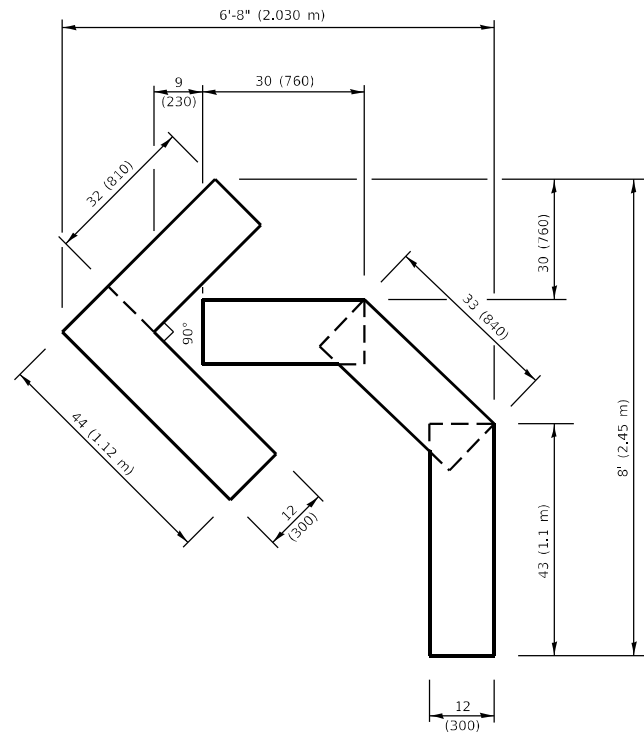
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/21/2024	DATE - T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

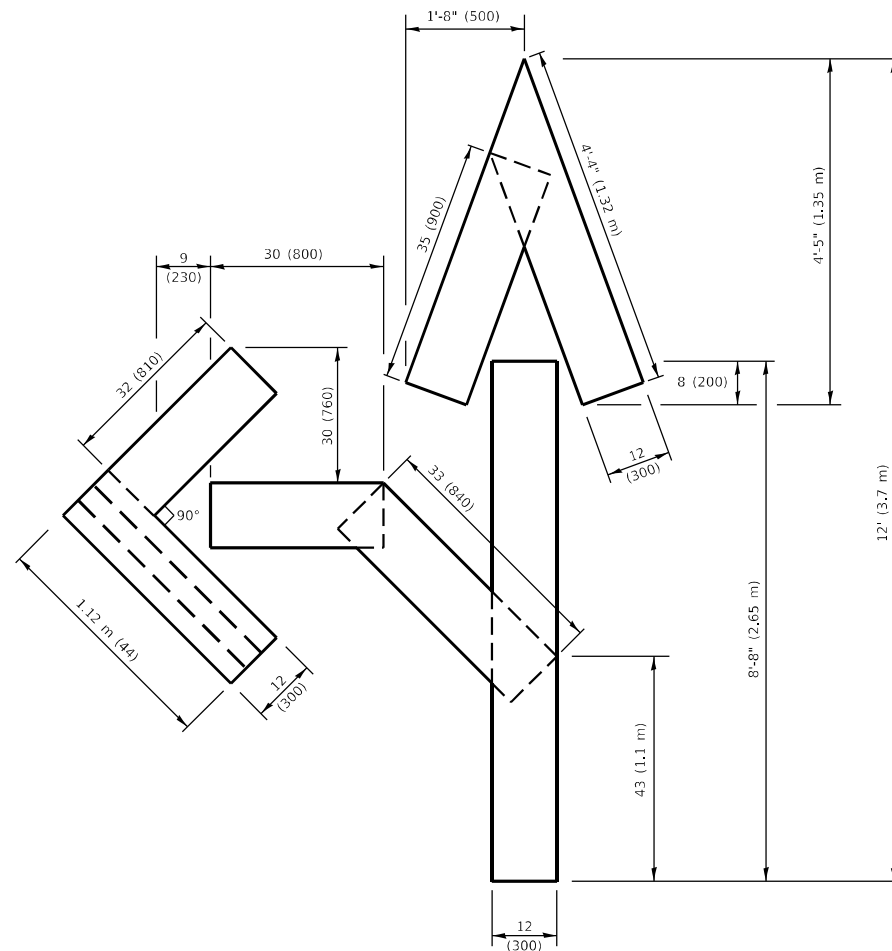
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-14			CONTRACT NO. 62U77	
ILLINOIS FED. AID PROJECT				



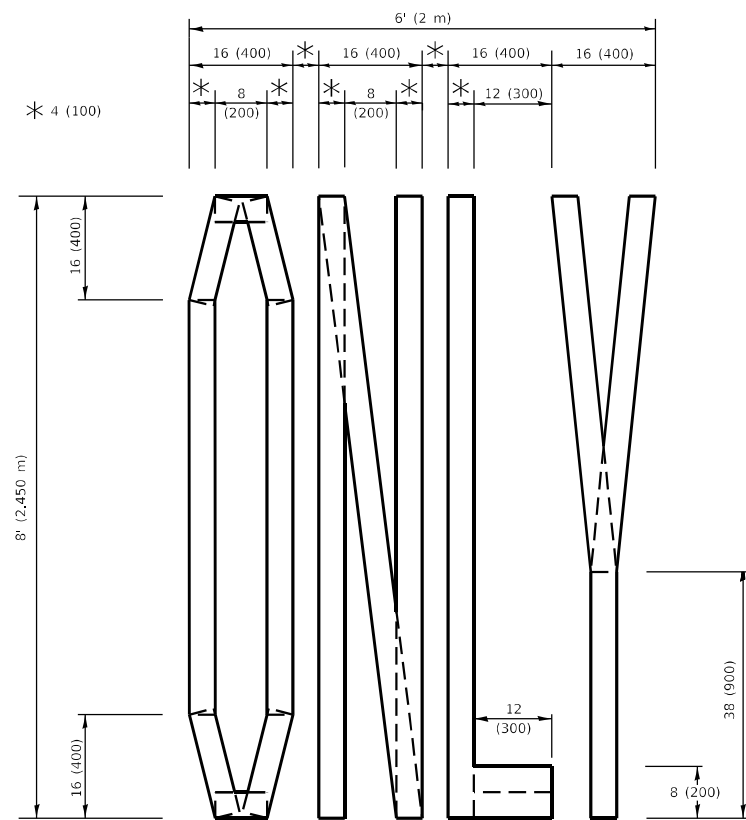
**QUANTITY**

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



**QUANTITY**

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

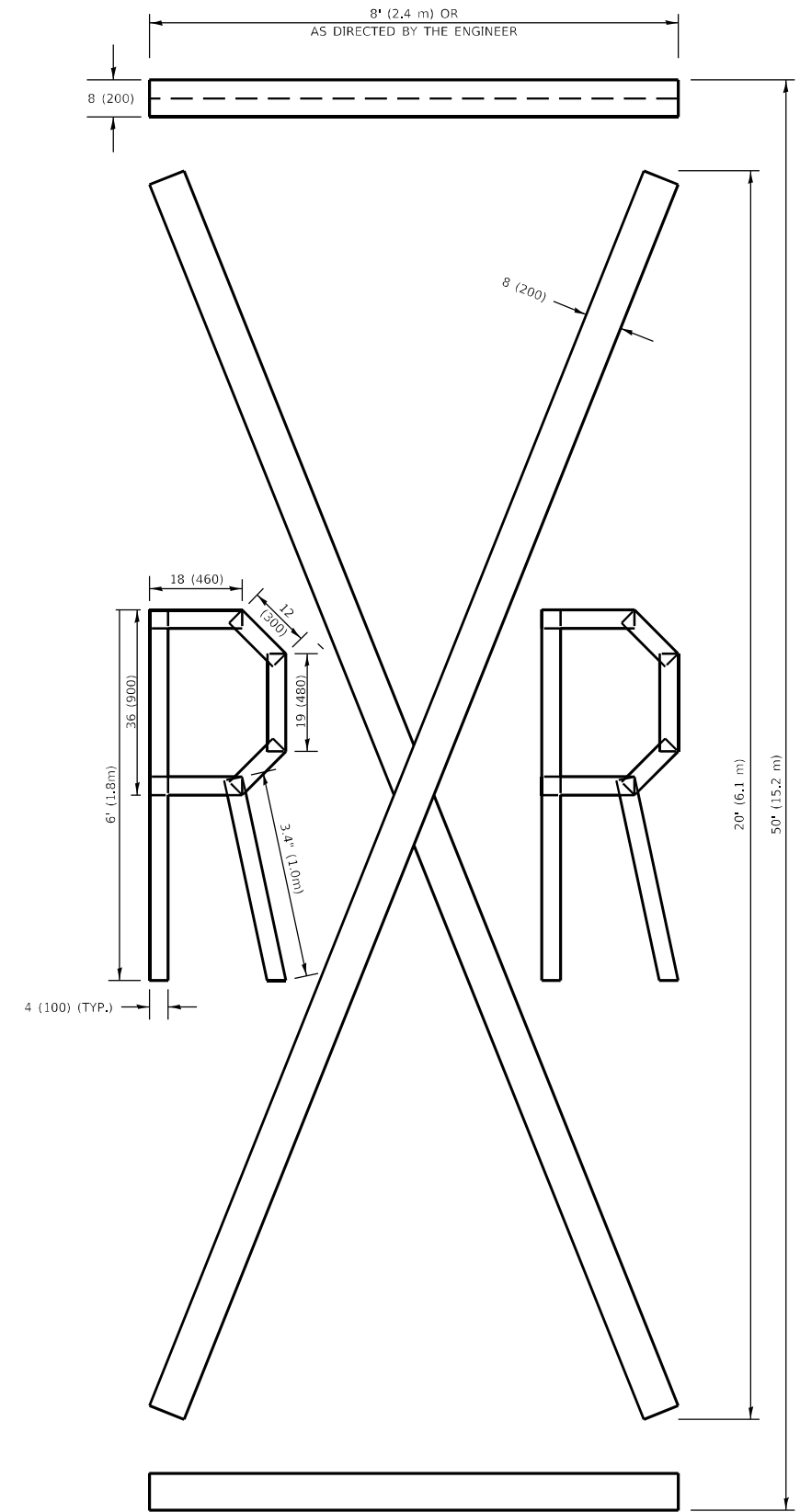


**QUANTITY**

4 (100) LINE = 64.1 ft. (19.5 m)  
21.4 sq. ft. (1.99 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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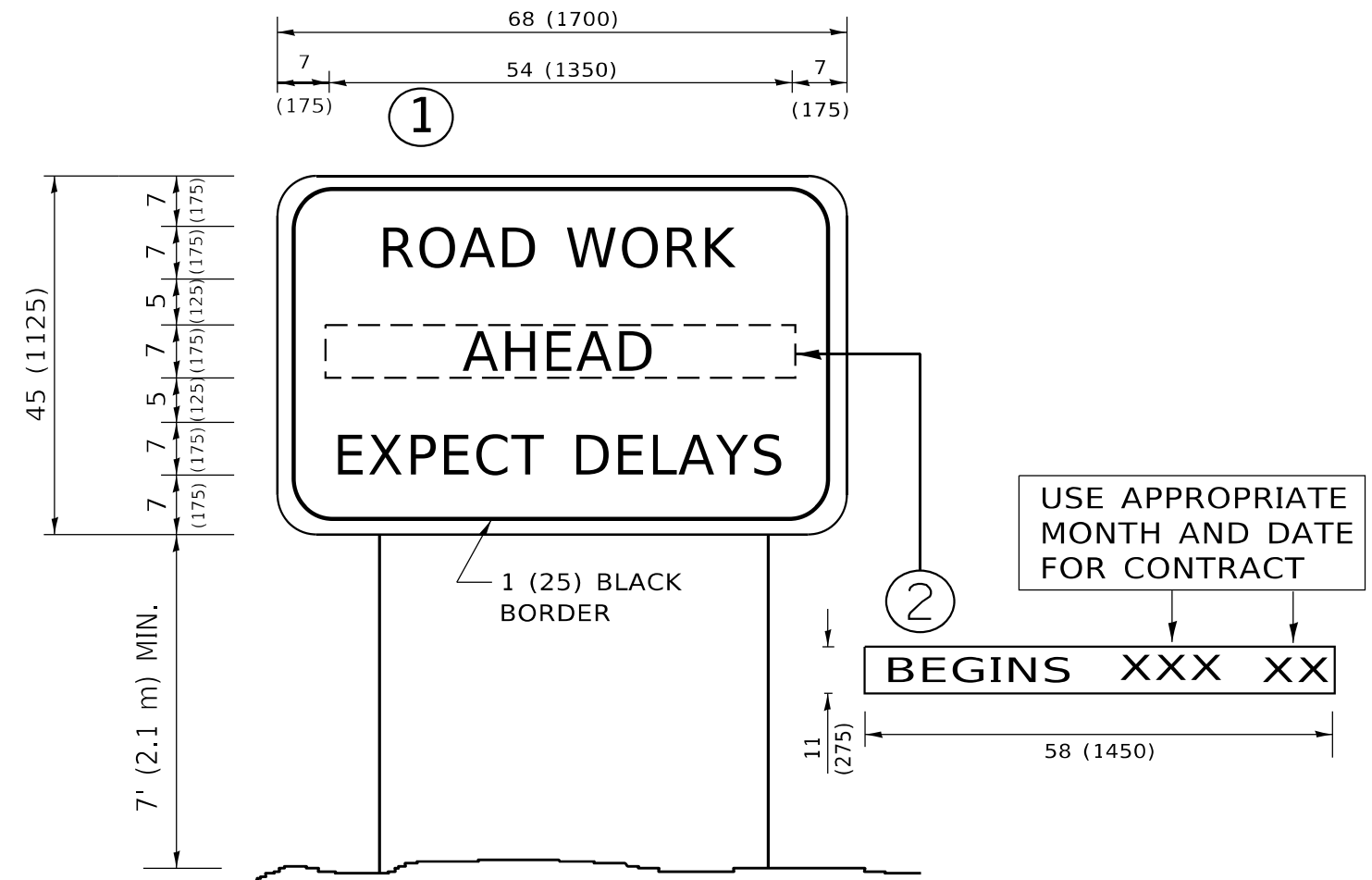
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PLOT DATE = 3/21/2024	DATE = 09-18-94	REVISED = A. SCHUETZE 09-15-16

**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.
1238	FAU 1238 23 OVERLAY	LAKE	36	34
<b>TC-16</b>			<b>CONTRACT NO. 62U77</b>	
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.

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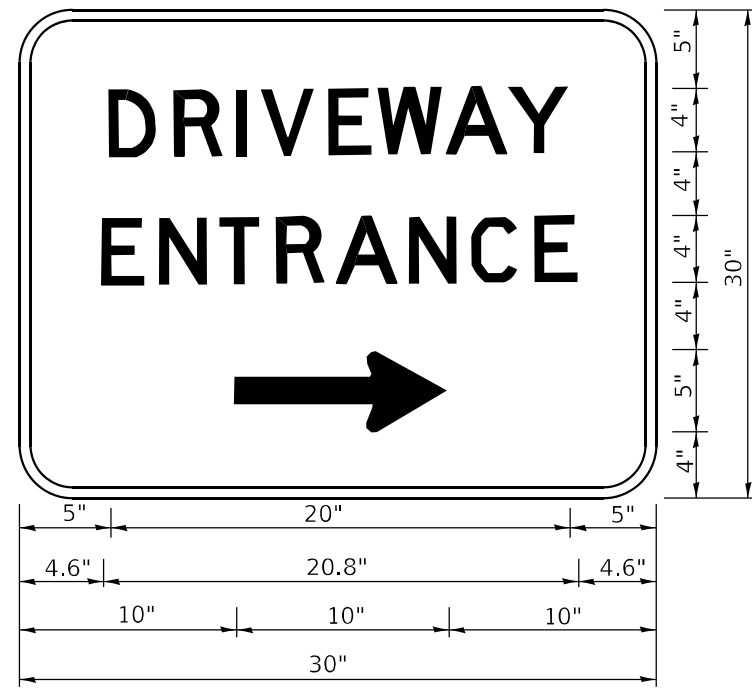
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/21/2024	DATE -	REVISED - C. JUCIUS 01-31-07

**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.
1238	FAU 1238 23 OVERLAY	LAKE	36	35
<b>TC-22</b>			CONTRACT NO. 62U77	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/21/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1238	FAU 1238 23 OVERLAY	LAKE	36	36
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ILLINOIS FED. AID PROJECT				