

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00353-00-TL	KANE	67	1

MONTGOMERY STREET & KAUTZ ROAD TRAFFIC SIGNAL INSTALLATION

CITY OF AURORA
22-00353-00-TL
KANE COUNTY

LOCATION MAP
SCALE: NTS

TRAFFIC DATA

DESIGN DESIGNATION:

MONTGOMERY ROAD = MINOR ARTERIAL
KAUTZ ROAD = MAJOR COLLECTOR

EXISTING ADT:

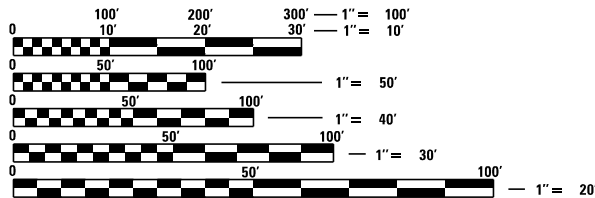
MONTGOMERY ROAD (WEST APPROACH) = 14,700
MONTGOMERY ROAD (EAST APPROACH) = 10,450
KAUTZ ROAD = 14,700

DESIGN SPEED:

MONTGOMERY ROAD = 40 MPH
KAUTZ ROAD = 35 MPH

POSTED SPEED:

MONTGOMERY ROAD = 35 MPH
KAUTZ ROAD = 30 MPH



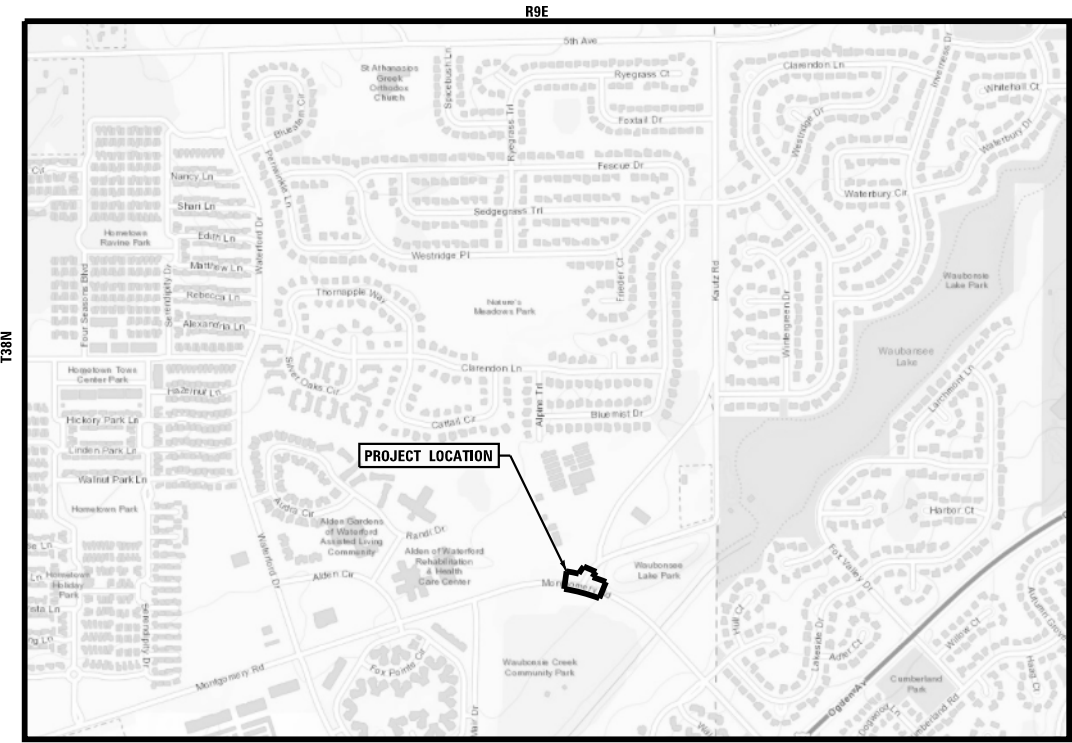
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. DESIGN STAGE REQUEST
DIG. No. X231021266



CONTACT JULIE AT 811 OR 800-892-0123
WITH THE FOLLOWING:

COUNTY = KANE
CITY-TOWNSHIP, = CITY OF AURORA - AURORA TOWNSHIP
SEC. & 1/4 SEC. NO. = NE 1/4 SEC 36
48 HOURS (2 working days) BEFORE YOU DIG



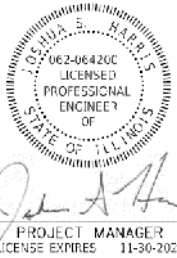
GROSS LENGTH = 500 FT = 0.094 MI
NET LENGTH = 500 FT = 0.094 MI

BAXTER & WOODMAN
Consulting Engineers



APPROVED August 19, 2025

LOCAL AGENCY REPRESENTATIVE



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000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-06	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-07	DEPRESSED CORNER FOR SIDEWALKS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-04	PEDESTRIAN PUSH BUTTON POST
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	TYPICAL PAVEMENT MARKINGS
TS-02	ARTERIAL ROAD INFORMATION SIGN
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS

1	COVER
2	GENERAL NOTES, HIGHWAY STANDARDS AND INDEX OF SHEETS
3	SUMMARY OF QUANTITIES
4	ADA DETAIL MONTGOMERY ROAD
5 - 6	PAVEMENT MARKING AND SIGNING PLAN
7 - 8	TRAFFIC SIGNAL INSTALLATION
9	TRAFFIC SIGNAL CABLE DIAGRAM
10	STREET NAME SIGN DESIGN
11 - 12	AURORA DETAILS
13 - 51	IDOT HIGHWAY STANDARDS
52 - 61	DISTRICT ONE DETAILS
62 - 67	CROSS SECTIONS

BAXTER & WOODMAN consulting Engineers	USER NAME = ctheissen	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, HIGHWAY STANDARDS, AND INDEX OF SHEETS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						22-00353-00-TL	KANE	67	2
	PLOT SCALE = 40,0000 " / in.	CHECKED -	REVISED -		CONTRACT NO.							
	PLOT DATE = 8/19/2025	DATE - 8/19/2025	FILE - 230279_SHT-GenNotes.dgn		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS	FED. AID PROJECT			

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USER NAME	= ctheissen	DESIGNED	-	REVISED	-
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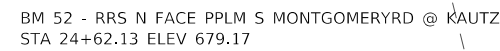
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

ITEM DESCRIPTION	UNIT	QTY
EARTH EXCAVATION	CU YD	256
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	5
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	324
GRADING AND SHAPING DITCHES	FOOT	65
AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	190
AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	105
AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	350
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	96
HOT-MIX ASPHALT SURFACE COURSE, MIX "D" IL-9.5, N50	TON	124
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	457
DETECTABLE WARNINGS	SQ FT	70
PAVEMENT REMOVAL	SQ YD	190
COMBINATION CURB AND GUTTER REMOVAL	FOOT	451
SIDEWALK REMOVAL	SQ FT	531
FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	1
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	451
NON-SPECIAL WASTE DISPOSAL	CU YD	20
SOIL DISPOSAL ANALYSIS	EACH	2
REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1
REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1
REGULATED SUBSTANCES MONITORING	CAL DAY	5
MOBILIZATION	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
CHANGEABLE MESSAGE SIGN	CAL DAY	90
SIGN PANEL - TYPE 1	SQ FT	21
SIGN PANEL - TYPE 2	SQ FT	10
REMOVE SIGN PANEL - TYPE 1	SQ FT	9
RELOCATE SIGN PANEL - TYPE 1	SQ FT	15
TELESCOPING STEEL SIGN SUPPORT	FOOT	45
THERMOPLASTIC PAVEMENT MARKINGS, 6"	FOOT	410
THERMOPLASTIC PAVEMENT MARKINGS, 12"	FOOT	240
THERMOPLASTIC PAVEMENT MARKINGS, 24"	FOOT	48
THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73
PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	75
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	108
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	142
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	61
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	90
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	395
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	842
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	685
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	734
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	132
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	570
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
LIGHT DETECTOR (INCLUDE CONFIRMATION BEACON)	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	210
VIDEO DETECTION SYSTEM	EACH	1
BIKE PATH REMOVAL	SQ YD	305
INLETS TO BE REMOVED (SPECIAL)	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONSTRUCTION LAYOUT	L SUM	1
DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	3
ETHERNET SWITCH	EACH	1
CAT. 6 ETHERNET CABLE	FOOT	147
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	L SUM	1
SEEDING - AURORA MIX	SQ FT	2,520

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	3
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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	STA	OFFSET	ELEV	EX
A	24+86.5	34.8' RT	677.40'	X
B	24+96.8	34.8' RT	677.28'	X
C	24+86.7	29.7' RT	677.38'	
D	24+97.3	29.8' RT	677.32'	
E	24+86.8	24.8' RT	677.36'	
F	24+97.3	24.7' RT	677.37'	
G	24+86.9	19.7' RT	677.40'	
H	24+97.3	19.5' RT	677.29'	
I	24+86.9	17.9' RT	677.41'	X
J	24+97.3	17.9' RT	677.30'	X

	STA	OFFSET	ELEV	EX
Z	24+07.6	33.8' LT	677.68'	
AA	24+07.7	39.0' LT	677.63'	
BB	24+12.5	38.9' LT	677.56'	
CC	24+14.0	38.8' LT	677.54'	
DD	24+18.2	38.8' LT	677.48'	
EE	24+20.6	38.7' LT	677.44'	
FF	24+24.2	44.4' LT	677.57'	X
GG	24+25.5	40.9' LT	677.26'	X
H	24+22.8	39.5' LT	677.45'	X
II	24+17.9	39.5' LT	677.46'	X
JJ	24+16.0	33.7' LT	677.55'	
KK	24+14.3	30.6' LT	677.56'	X
LL	24+13.6	31.7' LT	678.06'	X
MM	24+13.8	33.7' LT	677.58'	
NN	24+11.9	33.7' LT	677.61'	
OO	24+08.8	54.0' LT	677.72'	X
PP	24+13.4	53.9' LT	677.66'	X
QQ	23+93.1	34.3' LT	678.19'	X
RR	23+93.2	39.2' LT	678.15'	X

	STA	OFFSET	ELEV	EX
K	24+74.1	38.7' LT	677.08'	
L	24+80.1	38.8' LT	677.17'	
M	24+88.5	39.1' LT	677.30'	
N	24+88.5	45.8' LT	677.44'	
O	24+97.4	45.7' LT	677.37'	
P	24+97.5	35.7' LT	677.22'	
Q	24+97.5	30.7' LT	677.14'	
R	24+97.5	29.1' LT	677.15'	
S	24+88.1	29.5' LT	677.26'	
T	24+88.1	31.1' LT	677.25'	
U	24+79.7	32.1' LT	677.17'	
V	24+80.1	33.8' LT	677.11'	
W	24+72.1	38.4' LT	677.09'	
X	24+88.4	50.9' LT	677.69'	X
Y	24+97.3	50.7' LT	677.86'	X

	EOP HIGH POINT
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BAXTER & WOODMAN
Consulting Engineers

USER NAME = ctheissen	DESIGNED -
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PLOT DATE = 7/23/2025	DATE - 7/23/2025

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA DETAIL
MONTGOMERY ROAD

SCALE: 1" = 10'	SHEET 1 OF 1 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	4
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2025
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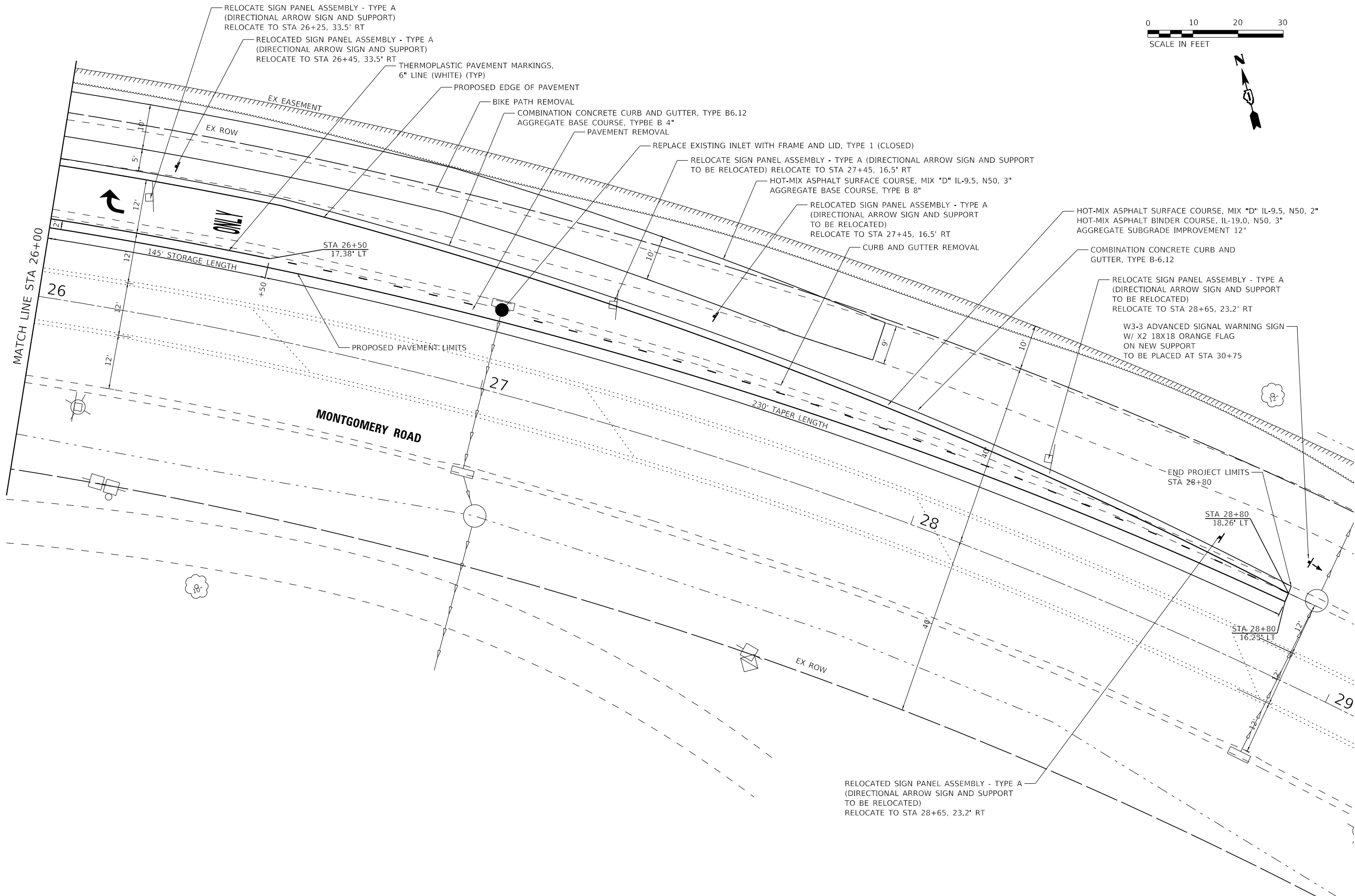
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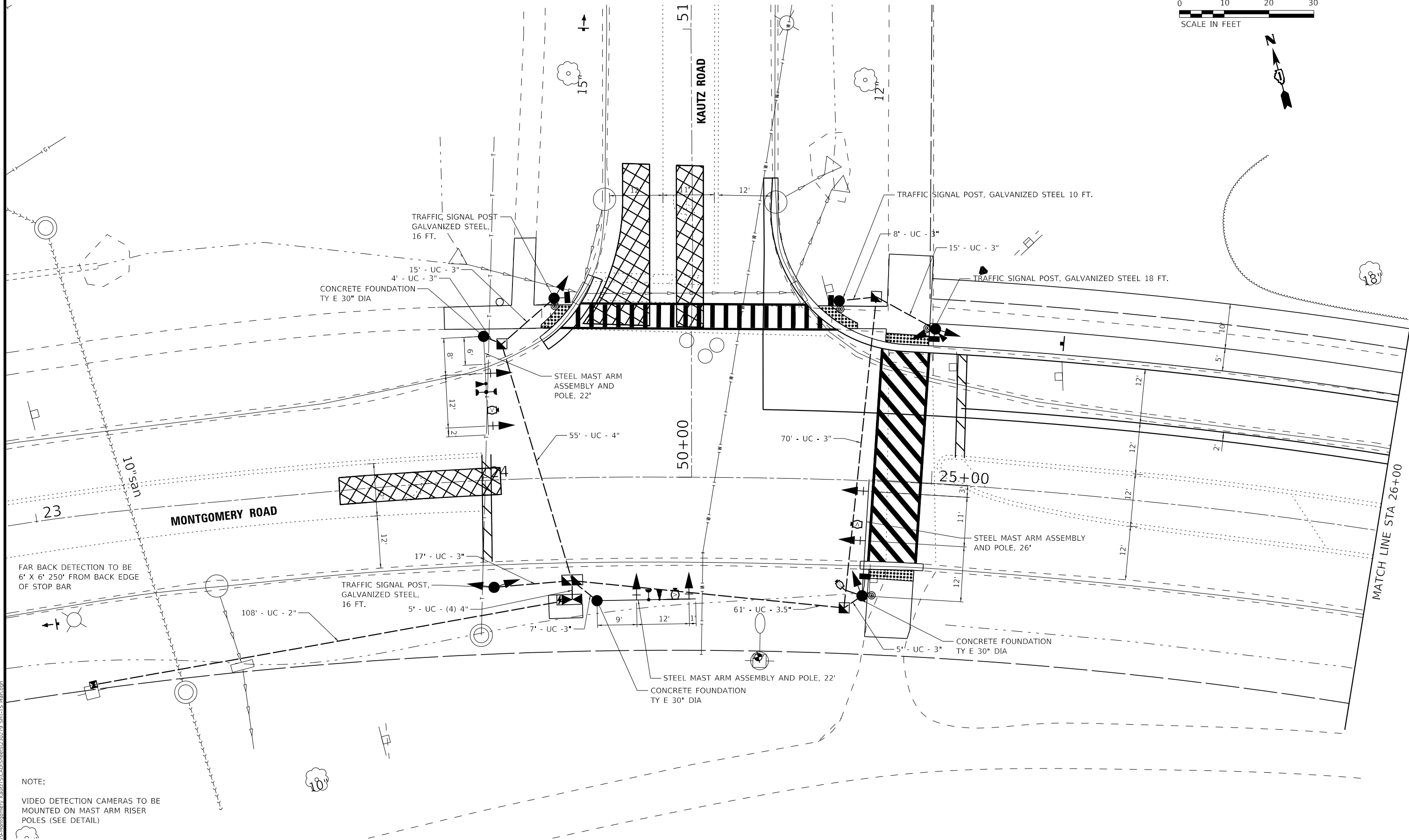
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, SIGNING, AND PAVEMENT WIDENING PLAN
MONTGOMERY DRIVE & KAUTZ ROAD

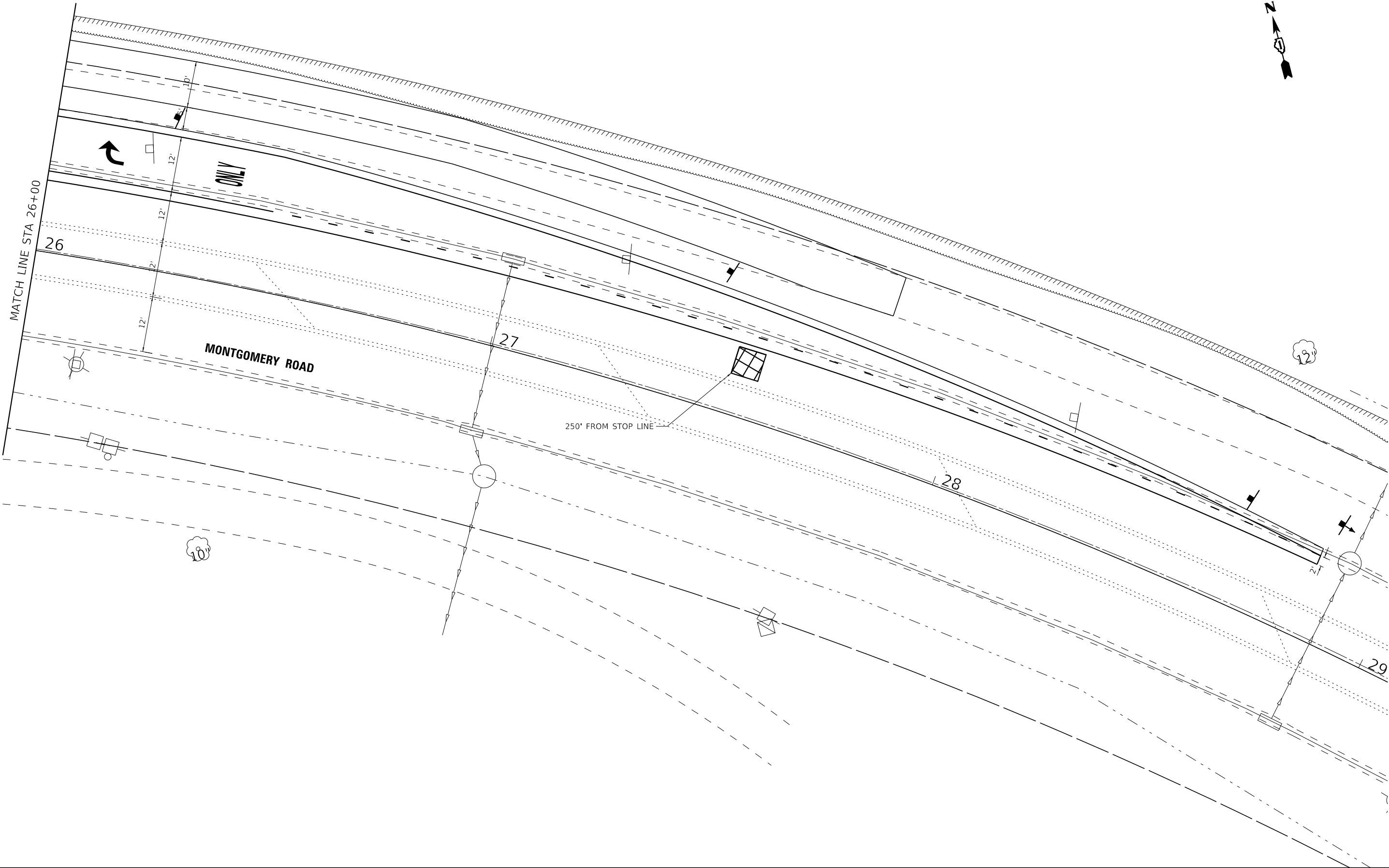
SCALE:	1" = 10'	SHEET	2	OF	2	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	6
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				





NOTE:
VIDEO DETECTION CAMERAS TO BE
MOUNTED ON MAST ARM RISER
POLES (SEE DETAIL)



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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USER NAME = ctheissen	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION			
MONTGOMERY DRIVE & KAUTZ ROAD			
SCALE: 1" = 10'	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	8
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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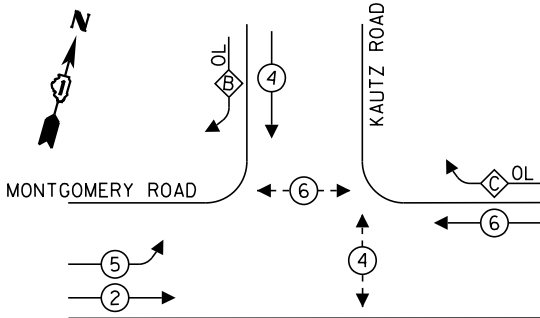
ITEM DESCRIPTION	UNIT	QTY
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	108
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	142
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	61
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	90
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	395
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	842
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	685
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	734
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	132
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	570
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
LIGHT DETECTOR (INCLUDE CONFIRMATION BEACON)	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	210
VIDEO DETECTION SYSTEM	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
ETHERNET SWITCH	EACH	1
CAT. 6 ETHERNET CABLE	FOOT	147
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	L SUM	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	7	11
	4-SECTION	0	14
	5-SECTION	5	13
PROGRAMMABLE SIGNALS			
3-SECTION	0	22	0
4-SECTION	0	32	0
5-SECTION	0	28	0
PED. SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	0	100	0
UPS	1	25	25
DETECTION			
RADAR	0	20	0
VIDEO	3	20	60
BLANK-OUT SIGN	0	25	0
NETWORK SWITCH II OR III	0	35	0
CELLULAR MODEM	0	15	0
			437
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	0	15	0
LED STREET NAME SIGN	0	120	0
LUMINAIRE	0	240	0
TOTAL SERVICE WIRE SIZING			1042
ENERGY COSTS TO:			
CITY OF AURORA			
44 E. DOWNER PLACE			
AURORA, ILLINOIS 60507-2067			
ENERGY SUPPLY: CONTACT: MARK SCHERIBEL			
PHONE: (630) 723-2128			
COMPANY: COMMONWEALTH EDISON			
ACCOUNT NUMBER: ---			

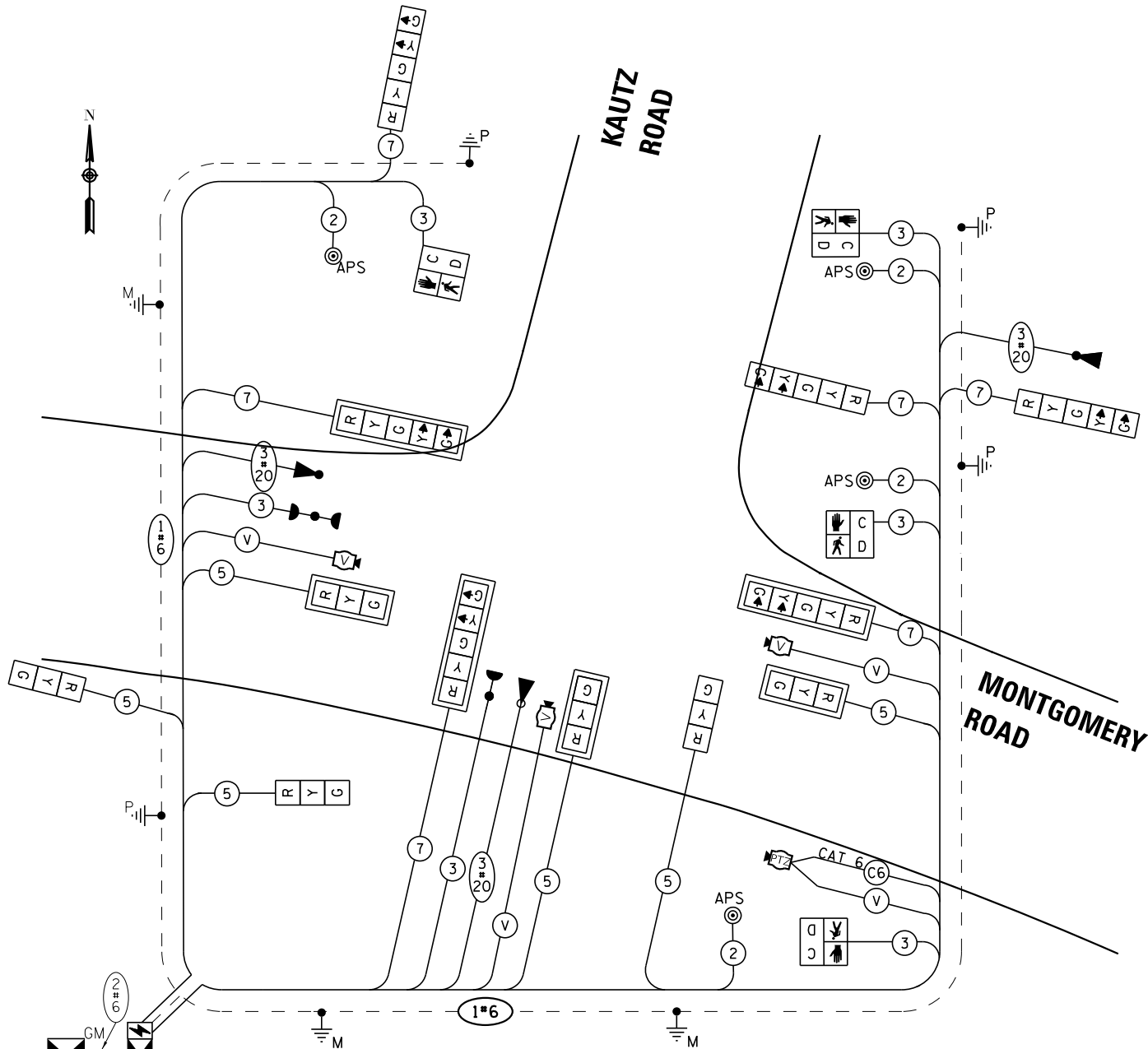
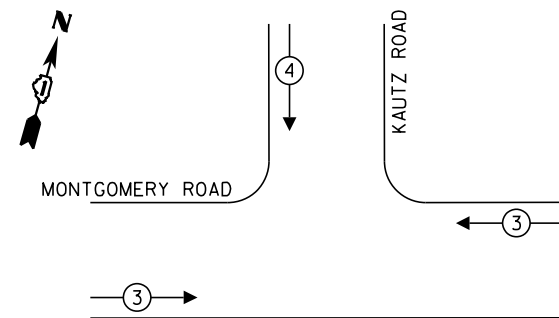
LEGEND:

- ⊙ — PROTECTED PHASE
⊙ — — — PROTECTED/PERMITTED PHASE
⊙ — — — PEDESTRIAN PHASE
⊙ OL — OVERLAP PHASE

CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

BAXTER & WOODMAN
Consulting Engineers

USER NAME = ctheissen
PLOT SCALE = 40.0008 ' / in.
PLOT DATE = 7/23/2025

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE - 7/23/2025	FILE - 230279_SHT-TS_Cable Plan.dgn

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTIVE PHASE
B	4	5
C*	6	4

* OMIT OVERLAP C IF PEDESTRIAN PHASE 4 IS ACTIVE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
MONTGOMERY ROAD AND KAUTZ ROAD

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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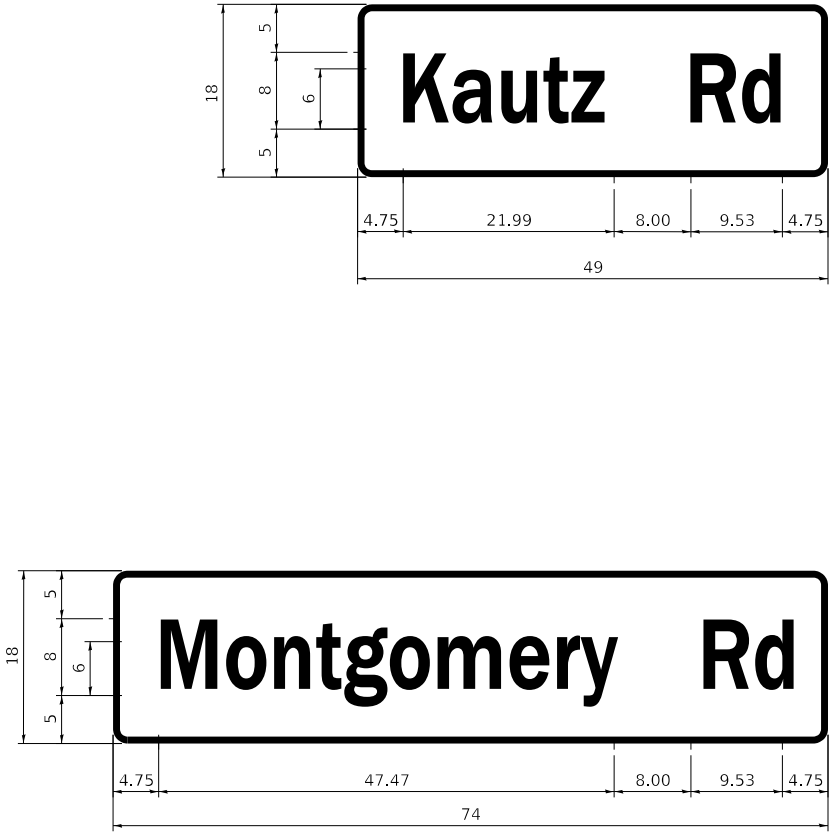
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	9
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2025
ccheissen 7/23/2025 11:56:40 PM
MODEL Default
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...\\CAD\Plots\230279_Pent.tot
P:\ARORC\230279-Montgomery_KautzTS\CAD\Sheets\230279_SHT-StreetNameSign.dgn

NOTES:

- ALL BRACKETS AND MOUNTING HARDWARE NECESSARY TO MOUNT SIDGN ON MAST ARMS AND POLES INCLUDED IN COST OF PAY ITEM SIGN PANEL - TYPE 1 AND 2.
- THE SIGNAGE PROVIDED ON THIS DETAIL IS NOT TO SCALE. HOWEVER, DIMENSIONS PROVIDED ARE AN ACCURATE REPRESENTATION OF DESIRED SPACING AND SIZE. SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL FOR STANDARDS. DIMENSIONS SUBJECT TO CHANGE.
- ALL DIMENSIONS PROVIDED ARE IN INCHES.



USER NAME = ctheissen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/23/2025	DATE - 7/23/2025	FILE - 230279_SHT-StreetNameSign.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STREET NAME SIGN DESIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	10
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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MAST ARM MOUNTED STREET NAME SIGNS
(NOT TO SCALE)

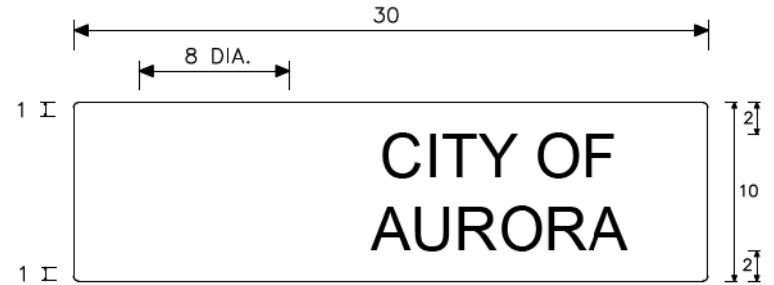
NOTE: THE SIGNAGE PROVIDED ON THIS DETAIL IS NOT TO SCALE, HOWEVER, DIMENSIONS PROVIDED ARE AN ACCURATE REPRESENTATION OF DESIRED SPACING AND SIZE. SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL FOR STANDARDS. DIMENSIONS SUBJECT TO CHANGE.

ALL DIMENSIONS PROVIDED ARE IN INCHES.

COA-1 SIGNAGE

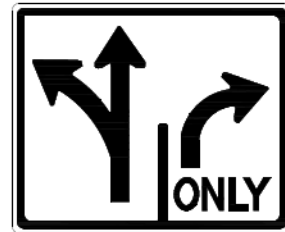
DESIGNED: GIL	DATE: 4/15/19	REVISED:	REVISED:
DRAWN: GIL		REVISED:	REVISED:

NOTE:
ALL BRACKETS AND MOUNTING
HARDWARE NECESSARY TO MOUNT
SIGNS ON MAST ARMS AND POLES
INCLUDED IN COST OF PAY ITEM
SIGN PANEL - TYPE 1 AND 2

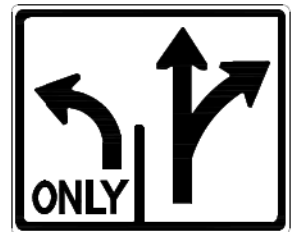


CITY OF AURORA CITY SEAL
CABINET SIGNAGE - IDENTIFICATION DECAL (x3)

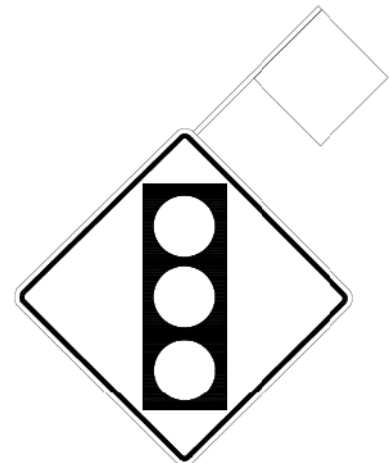
(BLACK TEXT ON WHITE REFLECTIVE BACKGROUND, CITY CREST TO BE IN COLOR, [IMAGE FILE TO BE PROVIDED BY C.O.A.] TO BE AFFIXED ON FRONT SIDE OF CABINET. IDENTIFICATION DECAL INCIDENTAL AND INCLUDED IN THE COST OF PAY ITEM "TYPE IV CABINET".)



W. WHITE EAGLE ADVANCED LANE
CONFIGURATION SIGNAGE
(30x30 - NOT TO SCALE)



MEADOWBROOK ADVANCED LANE
CONFIGURATION SIGNAGE
(30x30 - NOT TO SCALE)



W3-3 ADVANCED TRAFFIC
CONTROL SIGN W/ FLAG (x2)
(30x30 - NOT TO SCALE)

NOTE:
FLAG TO BE INCLUDED IN
COST OF PAY ITEM W3-3
SIGN PANEL -TYPE 1

BAXTER & WOODMAN
Consulting Engineers

USER NAME = ctheissen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/23/2025	DATE - 7/23/2025	FILE - 230279_SHT-Aurora Details.dgn

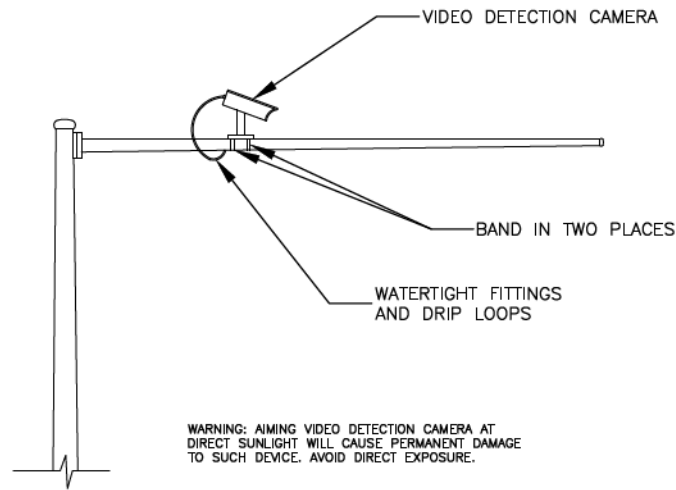
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**AURORA DETAILS
STREET SIGNAGE**

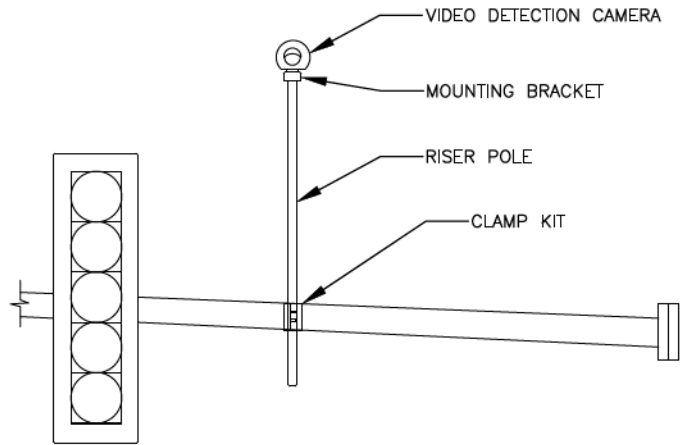
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	11
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2025
ccheissen
7/23/2025 11:56:49 PM
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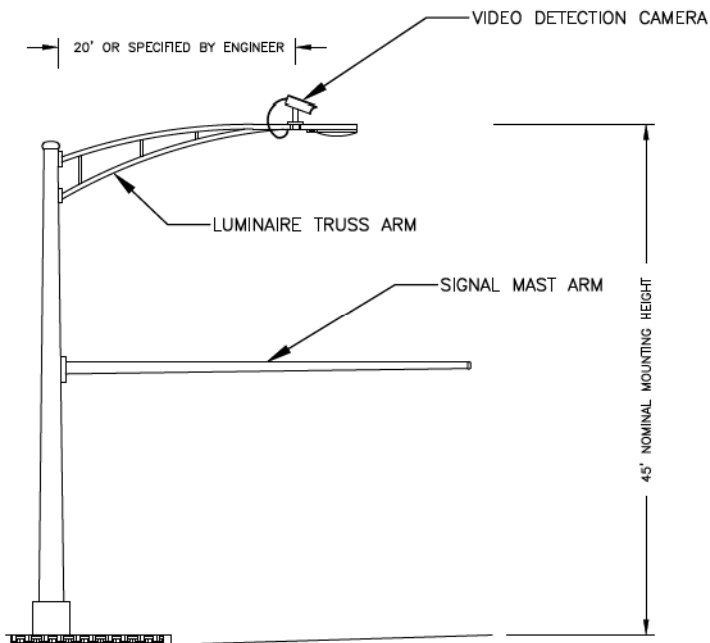


VIDEO DETECTION CAMERA
MOUNTING DETAIL
(NOT TO SCALE)

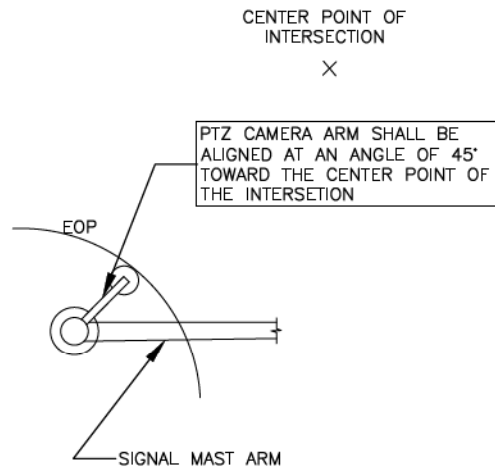


VIDEO DETECTION CAMERA
BRACKET MOUNTING DETAIL
(NOT TO SCALE)

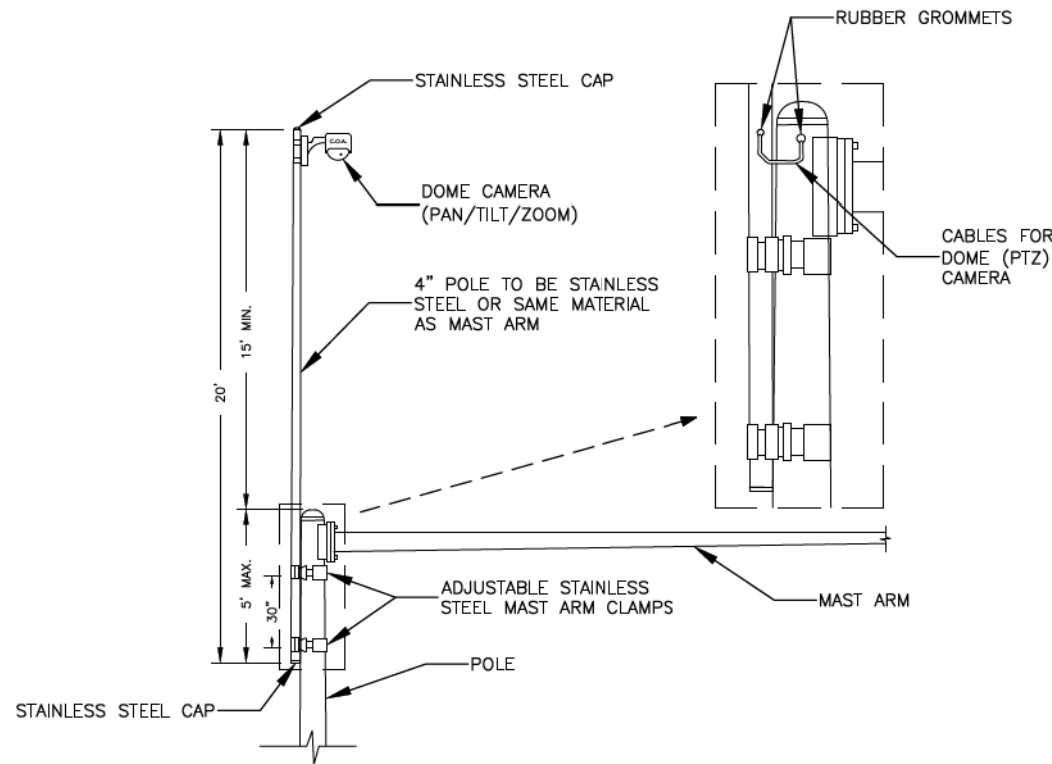
NOTE:
THIS DRAWING HAS BEEN CREATED BY
THE ENGINEERING DIVISION AT THE
CITY OF AURORA USING SIMILAR DETAILS
AS A BASIS OF DESIGN.



COMBINATION MAST ARM ASSEMBLY
AND POLE DIMENSIONS
(NOT TO SCALE)



PAN TILT ZOOM (PTZ) CAMERA
MOUNTING DETAILS
(NOT TO SCALE)



PTZ CAMERA MOUNTING ASSEMBLY DETAIL
(NOT TO SCALE)

COA - 2 VIDEO DETECTION CAMERA / PTZ MOUNTING DETAILS

DESIGNED: GIL	DATE: 12/14/18	REVISED:	REVISED:
DRAWN: GIL		REVISED:	REVISED:

BAXTER & WOODMAN
Consulting Engineers

USER NAME = ctheissen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/23/2025	DATE - 7/23/2025	FILE - 230279_SHT-Aurora Details.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AURORA DETAILS
VIDEO DETECTION CAMERA /PTZ MOUNTING DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	12
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

ABV	ABOVE	CU YD	CUBIC YARD	HATCH	HATCHING	PM	PAVEMENT MARKING	STD	STANDARD
A/C	ACCESS CONTROL	CULV	CULVERT	HD	HEAD	PED	PEDESTAL	SBI	STATE BOND ISSUE
AC	ACRE	C&G	CURB & GUTTER	HDW	HEADWALL	PNT	POINT	SR	STATE ROUTE
ADJ	ADJUST	D	DEGREE OF CURVE	HDUTY	HEAVY DUTY	PC	POINT OF CURVATURE	STA	STATION
AS	AERIAL SURVEYS	DC	DEPRESSED CURVE	ha	HECTARE	PI	POINT OF INTERSECTION OF HORIZONTAL CURVE	SPBGR	STEEL PLATE BEAM GUARDRAIL
AGG	AGGREGATE	DET	DETECTOR	HMA	HOT MIX ASPHALT			SS	STORM SEWER
AH	AHEAD	DIA	DIAMETER	HWY	HIGHWAY	PRC	POINT OF REVERSE CURVE	STY	STORY
APT	APARTMENT	DIST	DISTRICT	HORIZ	HORIZONTAL	PT	POINT OF TANGENCY	ST	STREET
ASPH	ASPHALT	DOM	DOMESTIC	HSE	HOUSE	POT	POINT ON TANGENT	STR	STRUCTURE
AUX	AUXILIARY	DBL	DOUBLE	IL	ILLINOIS	POLYETH	POLYETHYLENE	e	SUPERELEVATION RATE
AGS	AUXILIARY GAS VALVE (SERVICE)	DSEL	DOWNSTREAM ELEVATION	IMP	IMPROVEMENT	PCC	PORTLAND CEMENT CONCRETE	S.E. RUN,	SUPERELEVATION RUNOFF LENGTH
AVE	AVENUE	DSFL	DOWNSTREAM FLOWLINE	IN DIA	INCH DIAMETER	PP	POWER POLE OR PRINCIPAL POINT	SURF	SURFACE
AX	AXIS OF ROTATION	DR	DRAINAGE OR DRIVE	INL	INLET	PRM	PRIME	SMK	SURVEY MARKER
BK	BACK	DI	DRAINAGE INLET OR DROP INLET	INST	INSTALLATION	PE	PRIVATE ENTRANCE	T	TANGENT DISTANCE
B-B	BACK TO BACK	DRV	DRIVEWAY	IDS	INTERSECTION DESIGN STUDY	PROF	PROFILE	T.R.	TANGENT RUNOUT DISTANCE
BKPL	BACKPLATE	DCT	DUCT	INV	INVERT	PGL	PROFILE GRADELINE	TEL	TELEPHONE
B	BARN	EA	EACH	IP	IRON PIPE	PROJ	PROJECT	TB	TELEPHONE BOX
BARR	BARRICADE	EB	EASTBOUND	IR	IRON ROD	P.C.	PROPERTY CORNER	TP	TELEPHONE POLE
BL	BASELINE	EOP	EDGE OF PAVEMENT	JT	JOINT	PL	PROPERTY LINE	TEMP	TEMPORARY
BGN	BEGIN	E-CL	EDGE TO CENTERLINE	kg	KILOGRAM	PR	PROPOSED	TBM	TEMPORARY BENCH MARK
BM	BENCHMARK	E-E	EDGE TO EDGE	km	KILOMETER	R	RADIUS or RESIDENTIAL	TD	TILE DRAIN
BIND	BINDER	ELEC	ELECRICAL	LS	LANDSCAPING	RR	RAILROAD	TBE	TO BE EXTENDED
BIT	BITUMINOUS	EL	ELEVATION	LN	LANE	RRS	RAILROAD SPIKE	TBR	TO BE REMOVED
BTM	BOTTOM	ENTR	ENTRANCE	LT	LEFT	RPS	REFERENCE POINT STAKE	TBS	TO BE SAVED
BLVD	BOULEVARD	EXC	EXCAVATION	LIDAR	LIGHT DETECTION AND RANGING	REF	REFLECTIVE	TWP	TOWNSHIP
BRK	BRICK	EX	EXISTING	LP	LIGHT POLE	RCCP	REINFORCED CONCRETE CULVERT PIPE	TR	TOWNSHIP ROAD
BBOX	BUFFALO BOX	EXPWAY	EXPRESSWAY	LGT	LIGHTING	REINF	REINFORCEMENT	TS	TRAFFIC SIGNAL
BLDG	BUILDING	E	EXTERNAL DISTANCE OF HORIZONTAL CURVE	LF	LINEAL FEET OR LINEAR FEET	REM	REMOVAL	TSCB	TRAFFIC SIGNAL CONTROL BOX
CATV	CABLE	E	OFFSET DISTANCE TO VERTICAL CURVE	L	LITER OR CURVE LENGTH	RC	REMOVE CROWN	TSC	TRAFFIC SYSTEMS CENTER
CIP	CAST IRON PIPE	F-F	FACE TO FACE	LC	LONG CHORD	REP	REPLACEMENT	TRVS	TRANSVERSE
CB	CATCH BASIN	FA	FEDERAL AID	LNG	LONGITUDINAL	REST	RESTAURANT	TRVL	TRAVEL
C-C	CENTER TO CENTER	FAI	FEDERAL AID INTERSTATE	L SUM	LUMP SUM	RESURF	RESURFACING	TRN	TURN
CL	CENTERLINE OR CLEARANCE	FAP	FEDERAL AID PRIMARY	MACH	MACHINE	RET	RETAINING	TY	TYPE
CL-E	CENTERLINE TO EDGE	FAS	FEDERAL AID SECONDARY	MB	MAIL BOX	RT	RIGHT	T-A	TYPE A
CL-F	CENTERLINE TO FACE	FAUS	FEDERAL AID URBAN SECONDARY	MH	MANHOLE	ROW	RIGHT-OF-WAY	TYP	TYPICAL
CTS	CENTERS	FP	FENCE POST	MATL	MATERIAL	RD	ROAD	UNDGND	UNDERGROUND
CERT	CERTIFIED	OPT	FIBER OPTIC	MED	MEDIAN	RDWY	ROADWAY	USGS	U.S. GEOLOGICAL SURVEY
CHSLD	CHISELED	FE	FIELD ENTRANCE	m	METER	RTE	ROUTE	USEL	UPSTREAM ELEVATION
CS	CITY STREET	FH	FIRE HYDRANT	METH	METHOD	SAN	SANITARY	USFL	UPSTREAM FLOWLINE
CP	CLAY PIPE	FL	FLOW LINE	M	MID-ORDINATE	SANS	SANITARY SEWER	UTIL	UTILITY
CLSD	CLOSED	FB	FOOT BRIDGE	mm	MILLIMETER	SEC	SECTION	VBOX	VALVE BOX
CLID	CLOSED LID	FDN	FOUNDATION	mm DIA	MILLIMETER DIAMETER	SEED	SEEDING	VV	VALVE VAULT
CT	COAT OR COURT	FR	FRAME	MIX	MIXTURE	SHAP	SHAPING	VLT	VAULT
COMB	COMBINATION	F&G	FRAME & GRATE	MBH	MOBILE HOME	S	SHED	VEH	VEHICLE
C	COMMERCIAL BUILDING	FRWAY	FREEWAY	MOD	MODIFIED	SH	SHEET	VP	VENT PIPE
CE	COMMERCIAL ENTRANCE	GAL	GALLON	MFT	MOTOR FUEL TAX	SHLD	SHOULDER	VERT	VERTICAL
CONC	CONCRETE	GALV	GALVANIZED	N & BC	NAIL & BOTTLE CAP	SW	SIDEWALK OR SOUTHWEST	VC	VERTICAL CURVE
CONST	CONSTRUCT	G	GARAGE	N & C	NAIL & CAP	SIG	SIGNAL	VPC	VERTICAL POINT OF CURVATURE
CONTD	CONTINUED	GM	GAS METER	N & W	NAIL & WASHER	SOD	SODDING	VPI	VERTICAL POINT OF INTERSECTION
CONT	CONTINUOUS	GV	GAS VALVE	NC	NORMAL CROWN	SM	SOLID MEDIAN	VPT	VERTICAL POINT OF TANGENCY
COR	CORNER	GIS	GEOGRAPHICAL INFORMATION SYSTEM	NB	NORTHBOUND	SB	SOUTHBOUND	WM	WATER METER
CORR	CORRUGATED	GRAN	GRANULAR	NE	NORTHEAST	SE	SOUTHEAST	WV	WATER VALVE
CMP	CORRUGATED METAL PIPE	GR	GRATE	NW	NORTHWEST	SPL	SPECIAL	WMAIN	WATER MAIN
CNTY	COUNTY	GRVL	GRAVEL	O/S	OFFSET	SD	SPECIAL DITCH	WB	WESTBOUND
CH	COUNTY HIGHWAY	GND	GROUND	O&C	OIL AND CHIP	SQ FT	SQUARE FEET	WILDFL	WILDFLOWERS
CSE	COURSE	GUT	GUTTER	OLID	OPEN LID	m ²	SQUARE METER	W	WITH
XSECT	CROSS SECTION	GP	GUY POLE	PAT	PATTERN	mm ²	SQUARE MILLIMETER	WO	WITHOUT
m ³	CUBIC METER	GW	GUY WIRE	PVD	PAVED	SQ YD	SQUARE YARD		
mm ³	CUBIC MILLIMETER	HH	HANDHOLE	PVMT	PAVEMENT	STB	STABILIZED		

DATE	REVISIONS	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS (Sheet 1 of 9)
1-1-21	Updated fonts, abbreviations and symbols.	
1-1-19	Added new symbols.	
		STANDARD 000001-08



Illinois Department of Transportation

PASSED

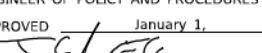
January 1, 2021



ENGINEER OF POLICY AND PROCEDURES

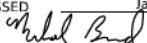
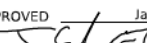
APPROVED

January 1, 2021

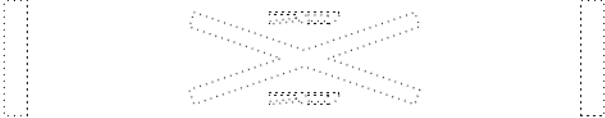
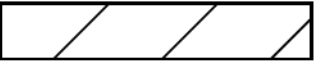
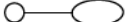
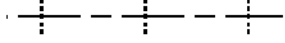
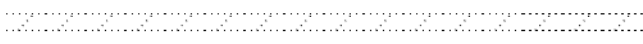
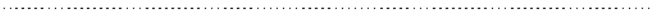
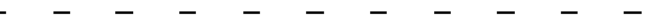
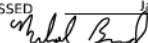
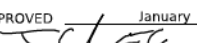


ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

ADJUSTMENT ITEMS			ALIGNMENT ITEMS			DRAINAGE ITEMS		
	EX	PR		EX	PR		EX	PR
Structure To Be Adjusted		ADJ	Baseline			Channel or Stream Line		
Structure To Be Cleaned		C	Centerline			Culvert Line		
Main Structure To Be Filled		FM	Centerline Break Circle			Grading & Shaping Ditches		
Structure To Be Filled		F	Baseline Symbol			Drainage Boundary Line		
Structure To Be Filled Special		FSP	Centerline Symbol			Paved Ditch		
Structure To Be Removed		R	PI Indicator			Aggregate Ditch		
Structure To Be Reconstructed		REC	Point Indicator			Pipe Underdrain		
Structure To Be Reconstructed Special		RSP	Horizontal Curve Data (Half Size)	EX. CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=	Storm Sewer		
Frame and Grate To Be Adjusted		A	BOUNDARIES ITEMS			HYDRAULICS ITEMS		
Frame and Lid To Be Adjusted		A	Dashed Property Line			Flowline		
Domestic Service Box To Be Adjusted		A	Solid Property/Lot Line			Ditch Check		
Valve Vault To Be Adjusted		A	Section/Grant Line			Headwall		
Special Adjustment		SP	Quarter Section Line			Inlet		
Item To Be Abandoned		AB	Quarter/Quarter Section Line			Manhole		
Item To Be Moved		M	County/Township Line			Summit		
Item To Be Relocated		REL	State Line			Roadway Ditch Flow		
Pavement Removal and Replacement			Chiseled Square Found			Swale		
			Iron Pipe Found			Catch Basin		
			Iron Pipe Set			Culvert End Section		
			Survey Marker			Water Surface Indicator		
			Property Line Symbol			Riprap		
			Same Ownership Symbol (Half Size)					
			Northwest Quarter Corner (Half Size)					
			Section Corner (Half Size)					
			Southeast Quarter Corner (Half Size)					
 Illinois Department of Transportation PASSED January 1, 2021  Michael Bond ENGINEER OF POLICY AND PROCEDURES APPROVED January 1, 2021  Scott E. Glick ENGINEER OF DESIGN AND ENVIRONMENT ISSUED 1-1-97			STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS					

<u>EROSION & SEDIMENT CONTROL ITEMS</u>		<u>EX</u>	<u>PR</u>
Cleaning & Grading Limits			
Dike			
Erosion Control Fence			
Perimeter Erosion Barrier			
Temporary Fence			
Ditch Check Temporary			
Ditch Check Permanent			
Inlet & Pipe Protection			
Sediment Basin			
Erosion Control Blanket			
Fabric Formed Concrete Revetment Mat			
Turf Reinforcement Mat			
Mulch Temporary			
Mulch Method 1			
Mulch Method 2 Stabilized			
Mulch Method 3 Hydraulic			
<u>CONTOUR ITEMS</u>		<u>EX</u>	<u>PR</u>
Approx. Index Line			
Approx. Intermediate Line			
Index Contour			
Intermediate Contour			
Illinois Department of Transportation PASSED January 1, 2021 ENGINEER OF POLICY AND PROCEDURES APPROVED January 1, 2021 ENGINEER OF DESIGN AND ENVIRONMENT ISSUED 1-1-97			
<u>NON-HIGHWAY IMPROVEMENT ITEMS</u>		<u>EX</u>	<u>PR</u>
Noise Attn./Levee			
Field Line			
Fence			
Base of Levee			
Mailbox			
Multiple Mailboxes			
Pay Telephone			
Advertising Sign			
ITS* Camera			
Wind Turbine			
Cellular Tower			
*Intelligent Transportation Systems			
<u>LANDSCAPING ITEMS</u>		<u>EX</u>	<u>PR</u>
Contour Mounding Line			
Fence			
Fence Post			
Shrubs			
Mowline			
Perennial Plants			
Seeding Class 2			
Seeding Class 2A			
Seeding Class 4			
Seeding Class 4 & 5 Combined			
<u>EXISTING LANDSCAPING ITEMS (contd.)</u>		<u>EX</u>	<u>PR</u>
Seeding Class 5			
Seeding Class 7			
Seedlings Type 1			
Seedlings Type 2			
Sodding			
Mowstake w/Sign			
Tree Trunk Protection			
Evergreen Tree			
Shade Tree			
<u>LIGHTING</u>		<u>EX</u>	<u>PR</u>
Duct			
Conduit			
Electrical Aerial Cable			
Electrical Buried Cable			
Controller			
Underpass Luminaire			
Power Pole			
STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS (Sheet 3 of 9)			
STANDARD 000001-08			

LIGHTING (contd.)		EX	PR	PAVEMENT MARKINGS		EX	PR
Pull Point				Handicap Symbol			
Handhole				RR Crossing			
Heavy Duty Handhole							
Junction Box				Raised Marker Amber 1 Way			
Light Unit Comb.				Raised Marker Amber 2 Way			
Electrical Ground				Raised Marker Crystal 1 Way			
Traffic Flow Arrow				Two Way Turn Left			
High Mast Pole (Half Size)				Shoulder Diag. Pattern			
Light Unit-1							
PAVEMENT (MISC.)		EX	PR				
Keyed Long. Joint				Skip-Dash White			
Keyed Long. Joint w/Tie Bars				Skip-Dash Yellow			
Sawed Long. Joint w/Tie Bars				Stop Line			
Bituminous Shoulder				Solid Line			
Bituminous Taper				Double Centerline			
Stabilized Driveway				Dotted Lines			
Widening							
 Illinois Department of Transportation PASSED January 1, 2021  ENGINEER OF POLICY AND PROCEDURES APPROVED January 1, 2021  ENGINEER OF DESIGN AND ENVIRONMENT ISSUED 1-1-97				STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS (Sheet 4 of 9) STANDARD 000001-08			

PAVEMENT MARKINGS
(contd.)

EX

PR

CL 2Ln 2Way
RRPM 12.2 m (40') o.c.



CL 2Ln 2Way
RRPM 80' (24.4 m) o.c.



CL Multilane Div.
RRPM 40' (12.2 m) o.c.



CL Multilane Div.
RRPM 80' (24.4 m) o.c.



CL Multilane Div. Dbl.
RRPM 80' (24.4 m) o.c.



CL Multilane Undiv.



Two Way Turn Left Line



Urban Combination Left



Urban Combination Right



Urban Left Turn Arrow



Urban Right Turn Arrow



Urban Left Turn Only



Urban Right Turn Only



Urban Thru Only



ONLY
ONLY
ONLY



RAILROAD ITEMS

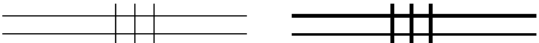
EX

PR

Abandoned Railroad



Railroad



Railroad Point



Control Box



Crossing Gate



Flashing Signal



Railroad Cant. Mast Arm



Crossbuck



REMOVAL ITEMS

EX

PR

Removal Tlc



Bituminous Removal



Hatch Pattern



Tree Removal Single



RIGHT OF WAY ITEMS

EX

PR

Future ROW Corner Monument



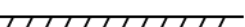
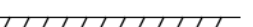
ROW Marker



ROW Line



Easement



Temporary Easement



STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS

(Sheet 5 of 9)

STANDARD 000001-08

Illinois Department of Transportation

PASSED January 1, 2021

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

ENGINEER OF DESIGN AND ENVIRONMENT

Urban LT & RT Turn Arrow

Urban Thru Arrow

PAVEMENT MARKINGS
(contd.)

Urban U-Turn

Urban Combined U-Turn

Rural Combination Left

Rural Combination Right

Rural Left Turn Arrow

Rural Right Turn Arrow

Rural Left Turn Only

Rural Right Turn Only

Rural Thru Only

Rural Thru Arrow

Rural Lt & Rt Turn Arrow

Bike Lane Symbol

Bike Lane Text

Bike Path Shared

Bike Shared Roadway

Lane Drop Symbol

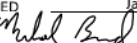
EX

PR

ONLY ONLY ONLY



Illinois Department of Transportation

PASSED January 1, 2021

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

Wrong Way Arrow

STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS

(Sheet 6 of 9)

STANDARD 000001-08

RIGHT OF WAY ITEMS
(contd.)

	EX	PR
Access Control Line		
Access Control Line & ROW		
Access Control Line & ROW with Fence		
Excess ROW Line		

ROADWAY PLAN
ITEMS

	EX	PR
Cable Barrier		
Concrete Barrier		
Edge of Pavement		
Bit Shoulders, Medians and C&G Line		
Aggregate Shoulder		
Sidewalks, Driveways		
Guardrail		
Guardrail Post		
Traffic Sign		
Corrugated Median		
Impact Attenuator		
North Arrow with District Office (Half Size)		
Match Line		
Slope Limit Line		
Typical Cross-Section Line		

ROADWAY PROFILES

	EX	PR
P.I. Indicator		
Point Indicator		
Earthworks Balance Point		
Begin Point		
Vert. Curve Data	VPI = ELEV = L = E =	VPI = ELEV = L = E =
Ditch Profile Left Side		
Ditch Profile Right Side		
Roadway Profile Line		
Storm Sewer Profile Left Side		
Storm Sewer Profile Right Side		

SIGNING ITEMS

	EX	PR
Cone, Drum or Barricade		
Barricade Type II		
Barricade Type III		
Barricade With Edge Line		
Flashing Light Sign		
Panels I		
Panels II		
Direction of Traffic		
Sign Flag (Half Size)		

SIGNING ITEMS
(contd.)

	EX	PR
Reverse Left W1-4L (Half Size)		
Reverse Right W1-4R (Half Size)		
Two Way Traffic Sign W6-3 (Half Size)		
Detour Ahead W20-2(O) (Half Size)		
Left Lane Closed Ahead W20-5L(O) (Half Size)		
Right Lane Closed Ahead W20-5R(O) (Half Size)		
Road Closed Ahead W20-3(O) (Half Size)		
Road Construction Ahead W20-1(O) (Half Size)		
Single Lane Ahead (Half Size)		
Transition Left W4-2L (Half Size)		
Transition Right W4-2R (Half Size)		

SIGNING ITEMS (contd.)		EX	PR	STRUCTURES ITEMS		EX	PR	TRAFFIC SHEET ITEMS		EX	PR
One Way Arrow Lrg. W1-6-(O) (Half Size)				Box Culvert Barrel	-----		_____	Cable Number			
Two Way Arrow Large W1-7-(O) (Half Size)				Box Culvert Headwall	_____		_____	Left Turn Green			
Detour M4-10L-(O) (Half Size)				Brldge Pler	-----		-----	Left Turn Yellow			
Detour M4-10R-(O) (Half Slze)				Brldge	_____		_____	Signal Backplate			
One Way Left R6-1L (Half Size)				RetainIng Wall	-----		_____	Signal Section 8" (200 mm)			
One Way Right R6-1R (Half Size)				Temporary Sheet Piling				Signal Section 12" (300 mm)			
Left Turn Lane R3-1100L (Half Size)								Walk/Don't Walk Letters			
Keep Left R4-7AL (Half Size)								Walk/Don't Walk Symbols			
Keep Left R4-7BL (Half Size)											
Keep Right R4-7AR (Half Size)											
Keep Right R4-7BR (Half Size)											
Stop Here On Red R10-6-AL (Half Size)											
Stop Here On Red R10-6-AR (Half Slze)											
No Left Turn R3-2 (Half Size)											
No Right Turn R3-1 (Half Slze)											
Road Closed R11-2 (Half Slze)											
Road Closed Thru Traffic R11-2 (Half Size)											

Illinois Department of Transportation

PASSED January 1, 2021

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

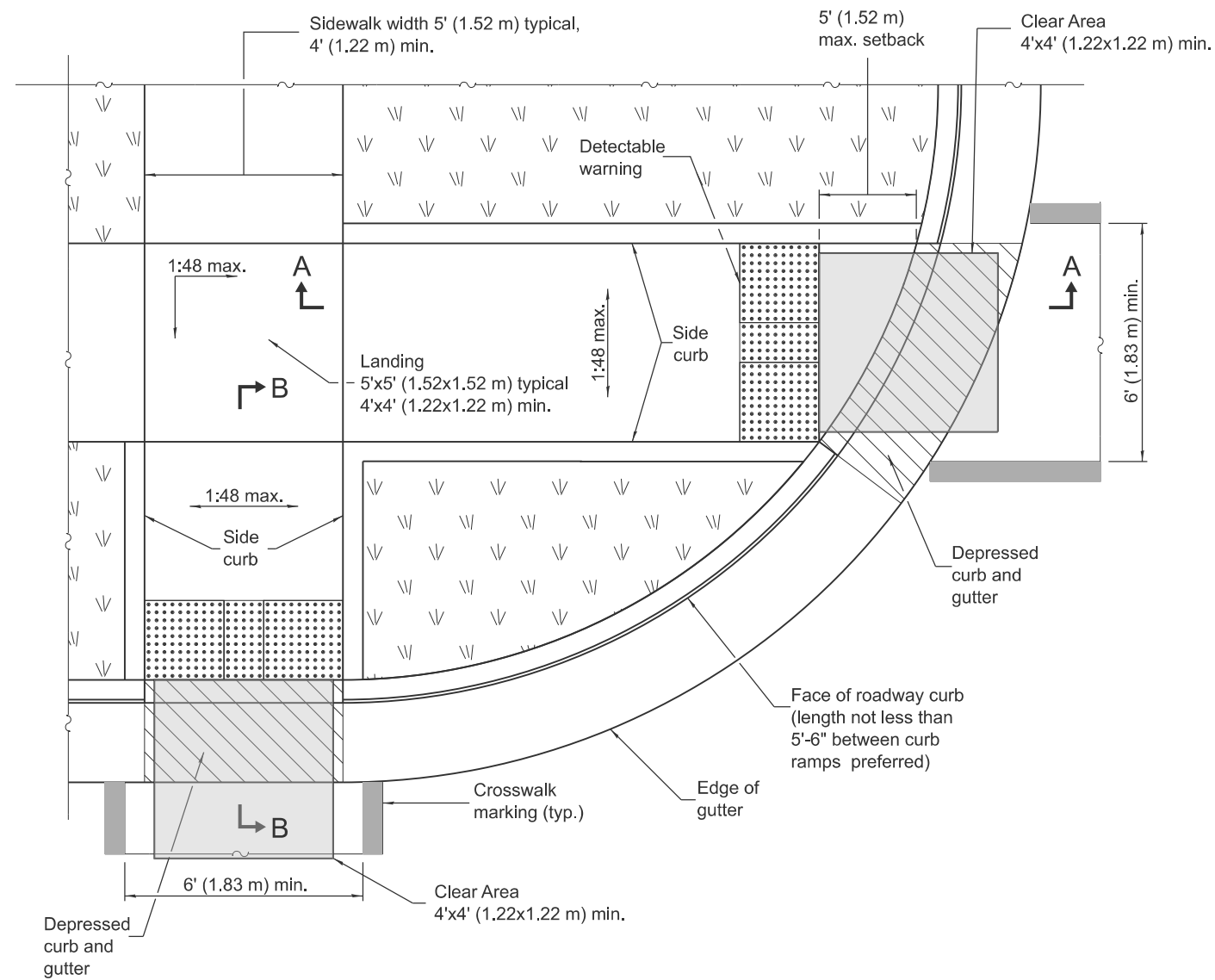
TRAFFIC SIGNAL ITEMS		EX	PR
Galv. Steel Conduit		=====	=====
Underground Cable		-----	-----
Detector Loop Line			=====
Detector Loop Large			
Detector Loop Small			
Detector Loop Quadrapole			

STANDARD SYMBOLS,
ABBREVIATIONS
AND PATTERNS

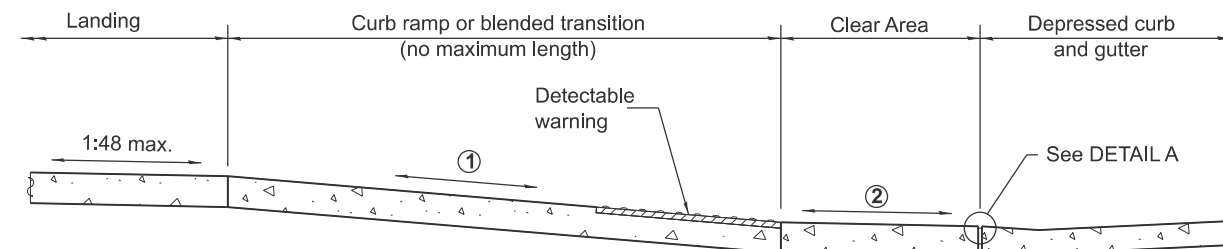
(Sheet 8 of 9)

STANDARD 000001-08

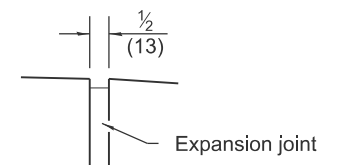
TRAFFIC SIGNAL ITEMS (contd.)			UNDERGROUND UTILITY ITEMS			UTILITY ITEMS (contd.)		
	EX	PR		EX	PR		EX	PR
Detector Raceway			Cable TV			Traffic Signal		
Aluminum Mast Arm			Electric Cable			Traffic Signal Control Box		
Steel Mast Arm			Fiber Optic			Water Meter		
Veh. Detector Magnetic			Gas Pipe			Water Meter Valve Box		
Conduit Splice			Oil Pipe			Profile Line		
Controller			Sanitary Sewer			Aerial Power Line		
Gulfbox Junction			Telephone Cable			VEGETATION ITEMS		
Wood Pole			Water Pipe				EX	PR
Temp. Signal Head			UTILITIES ITEMS			Deciduous Tree		
Handhole			Controller			Bush or Shrub		
Double Handhole			Double Handhole			Evergreen Tree		
Heavy Duty Handhole			Fire Hydrant			Stump		
Junction Box			GuyWire or Deadman Anchor			Orchard/Nursery Line		
Ped. Pushbutton Detector			Handhole			Vegetation Line		
Ped. Signal Head			Heavy Duty Handhole			Woods & Bush Line		
Power Pole Service			Junction Box			WATER FEATURE ITEMS		
Priority Veh. Detector			Light Pole				EX	PR
Signal Head			Manhole			Stream or Drainage Ditch		
Signal Head w/Backplate			Monitoring Well (Gasoline)			Waters Edge		
Signal Post			Pipeline Warning Sign			Water Surface Indicator		
Closed Circuit TV			Power Pole			Water Point		
Video Detector System			Power Pole with Light			Disappearing Ditch		
PASSED January 1, 2021 ENGINEER OF POLICY AND PROCEDURES APPROVED January 1, 2021 ENGINEER OF DESIGN AND ENVIRONMENT ISSUED 1-1-97			Sanitary Sewer Cleanout			Marsh		
			Splice Box Above Ground			Marsh/Swamp Boundary		
			Telephone Splice Box Above Ground			STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS (Sheet 9 of 9) STANDARD 000001-08		
			Telephone Pole					



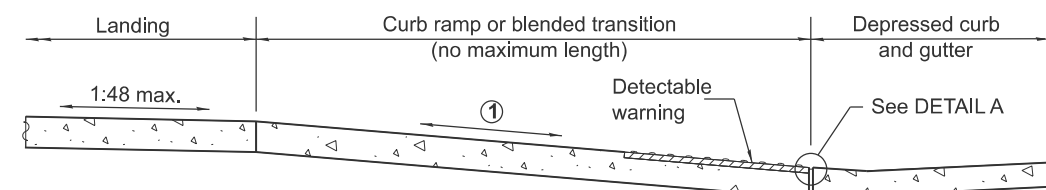
RAMPS IN LANDSCAPED AREA
SETBACK $\leq 5'$



RAMPS IN PAVED AREA
SETBACK ≤ 5'

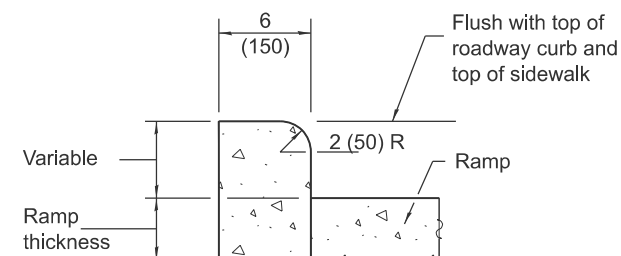


DETAIL A

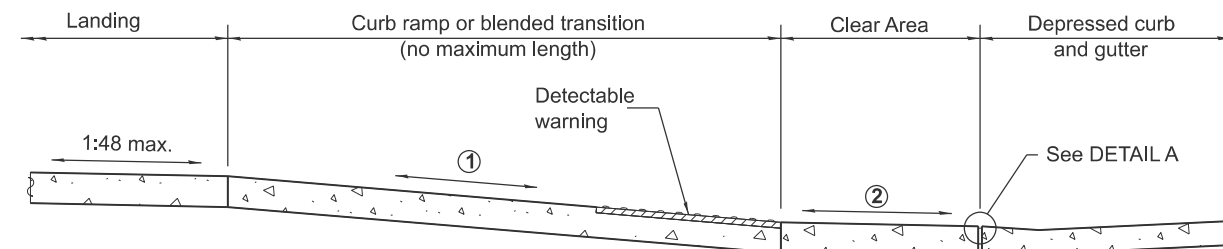


SECTION B-B

- ① The running slope of a curb ramp shall be 1:12 max. The running slope of a blended transition shall be 1:20 max.

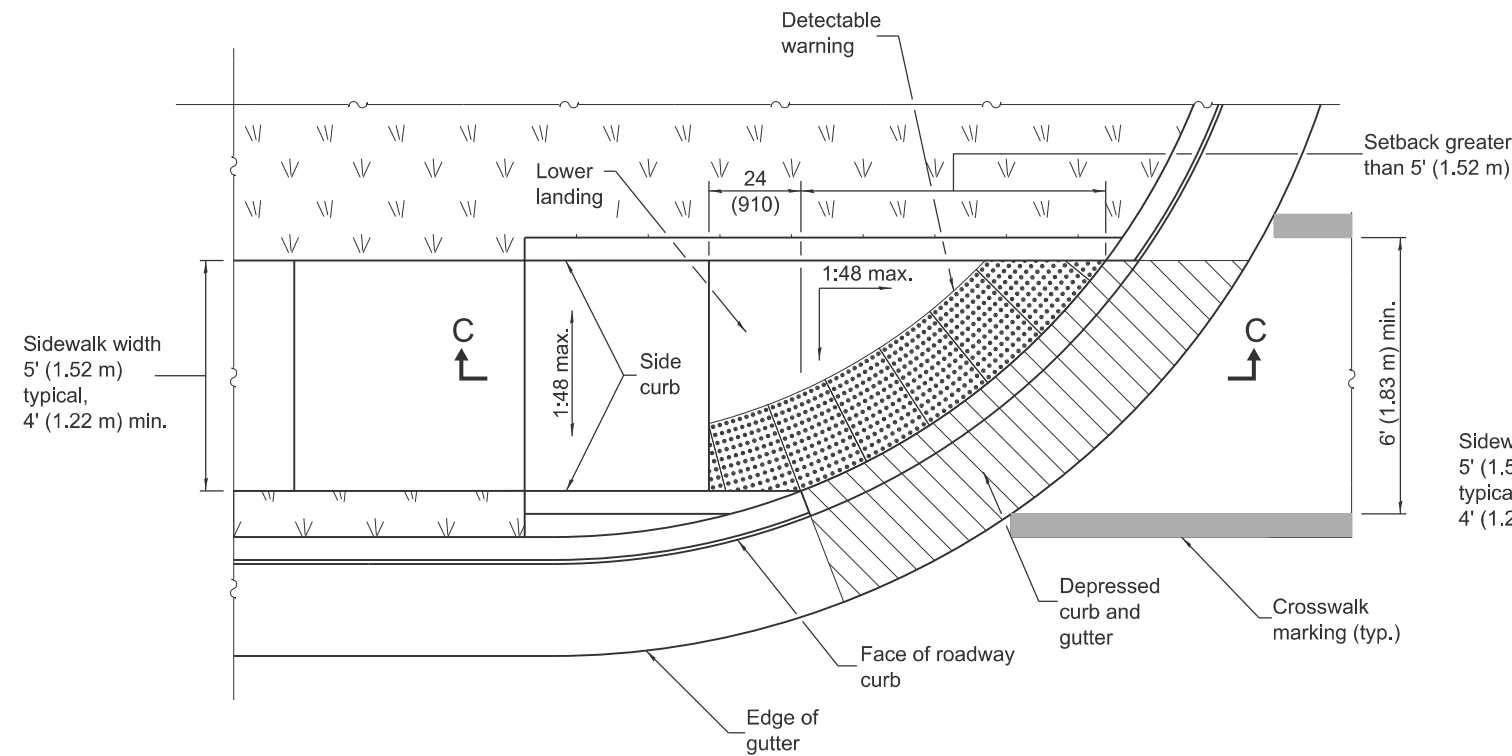


SIDE CURB DETAIL

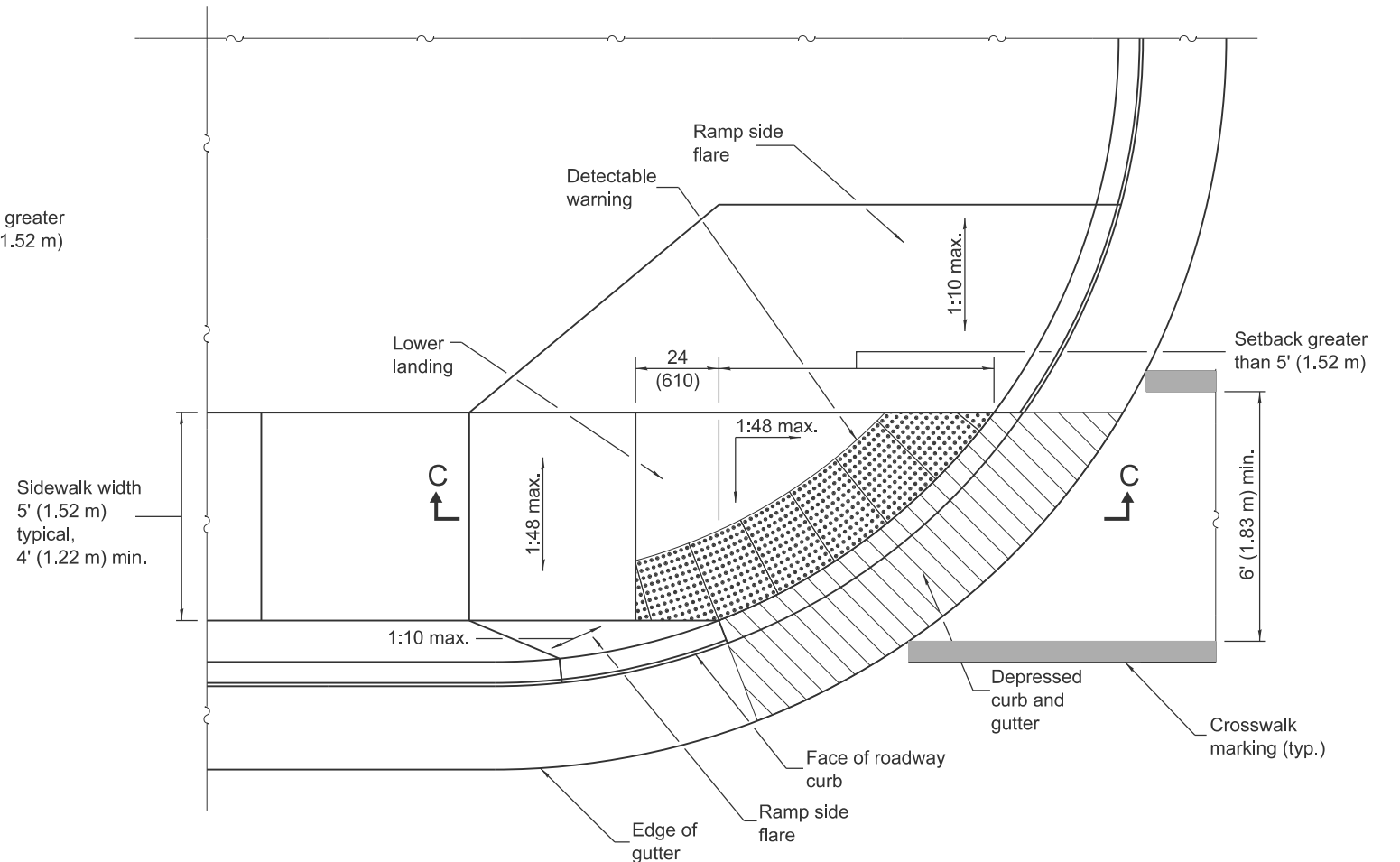


SECTION A-A

- ① The running slope of a curb ramp shall be 1:12 max.
The running slope of a blended transition shall be 1:20 max.
- ② Clear Area shall be located outside the travel lane inclusive of any bicycle lanes. The running slope shall be 1:20 max and the cross slope shall be:
 - Signalized/Uncontrolled Intersection - 1:20
 - Yield/Stop Controlled Intersection - 1:48
 - Midblock - grade of the road



**RAMP IN LANDSCAPED AREA
SETBACK > 5'**



**RAMP IN PAVED AREA
SETBACK > 5'**

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where 1:48 maximum slope is shown, 1:64 is preferred.

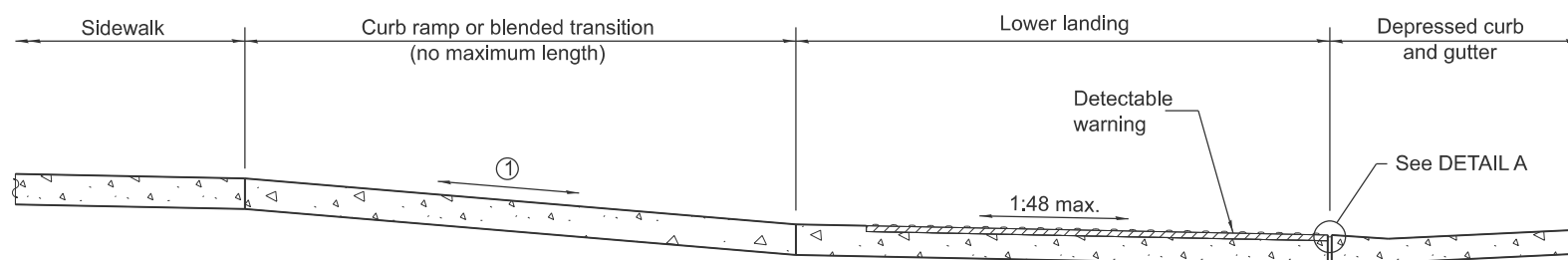
Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

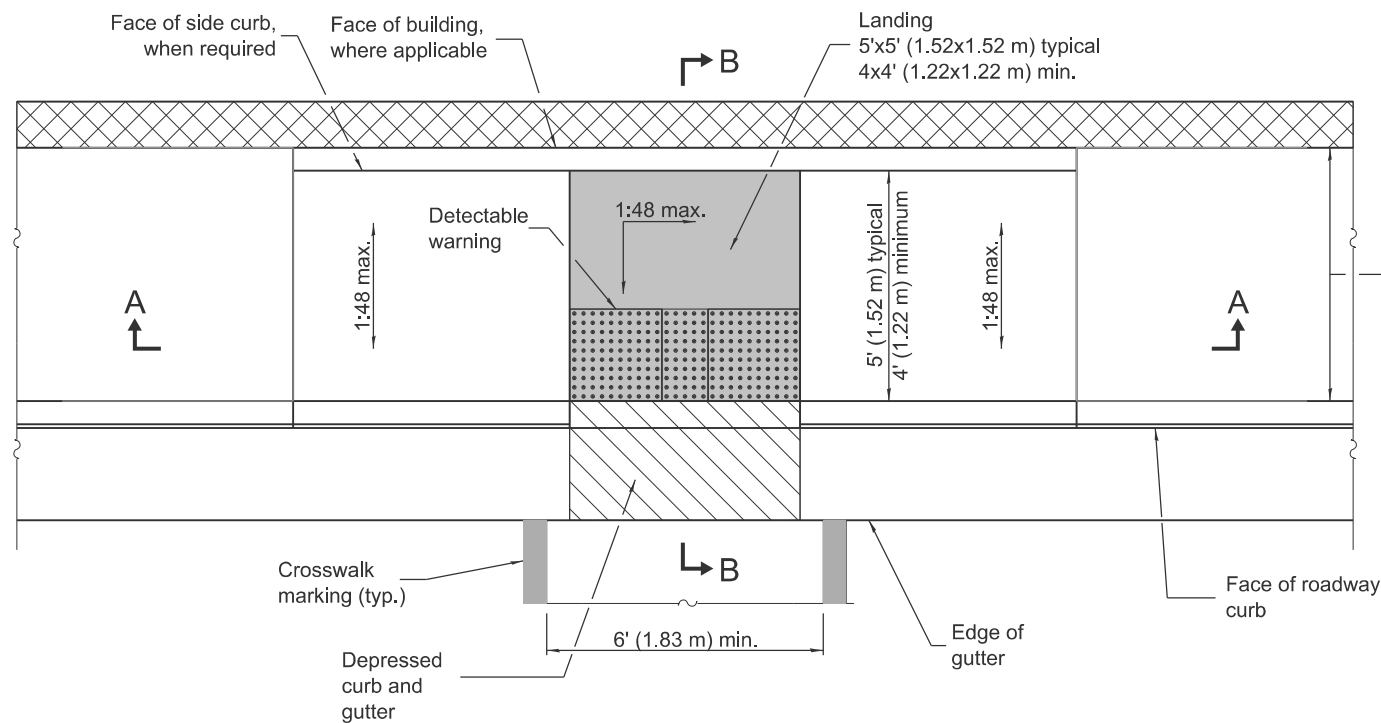
See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

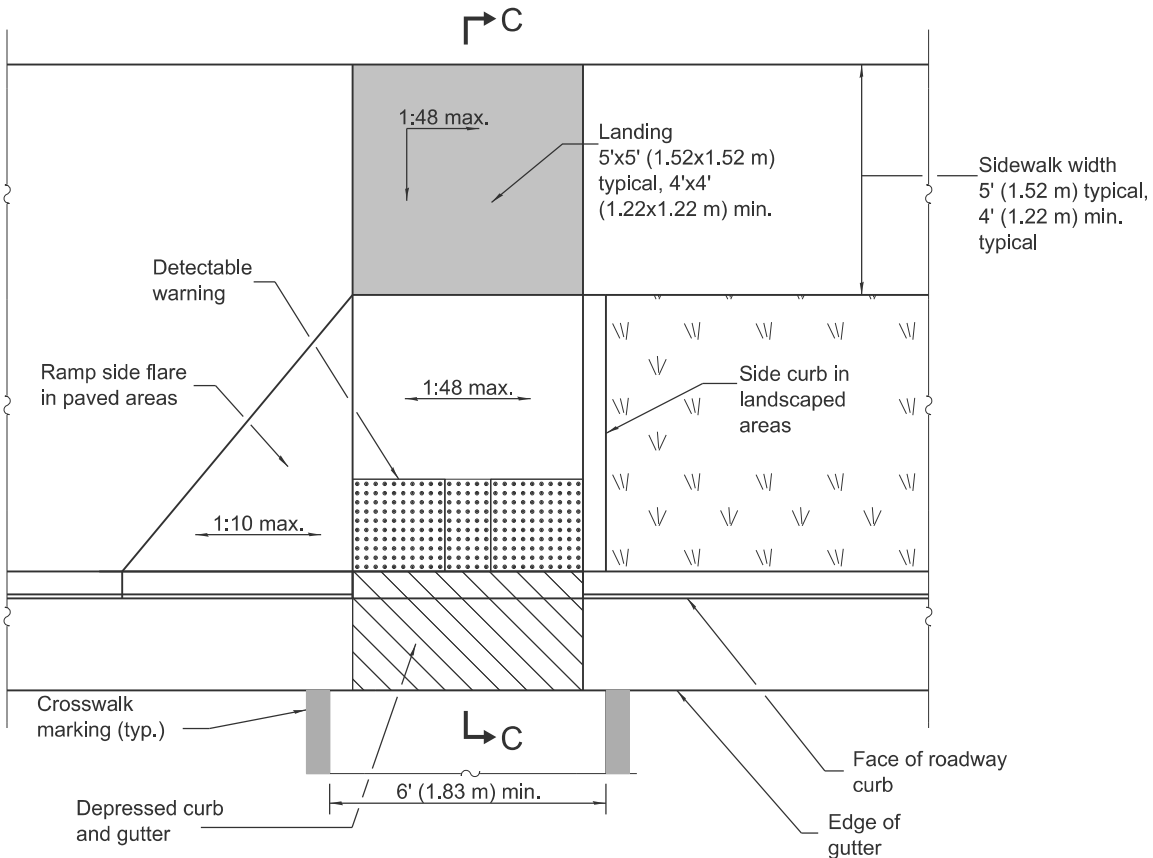


SECTION C-C

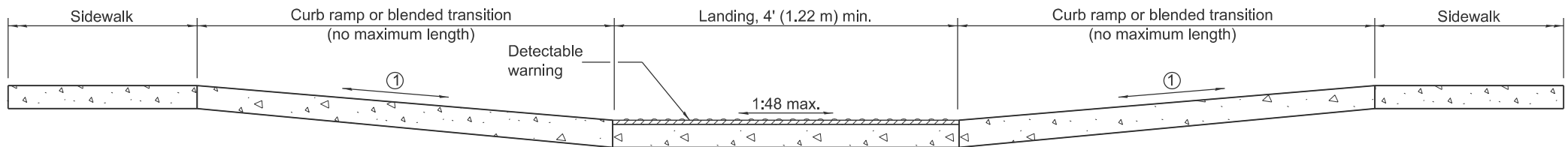
- ① The running slope of a curb ramp shall be 1:12 max. The running slope of a blended transition shall be 1:20 max.



PARALLEL MID-BLOCK CURB RAMP

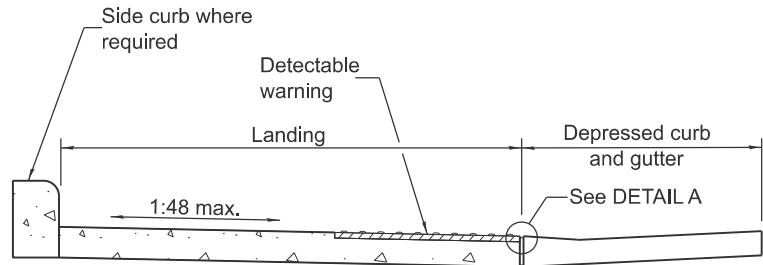


PERPENDICULAR MID-BLOCK CURB RAMP

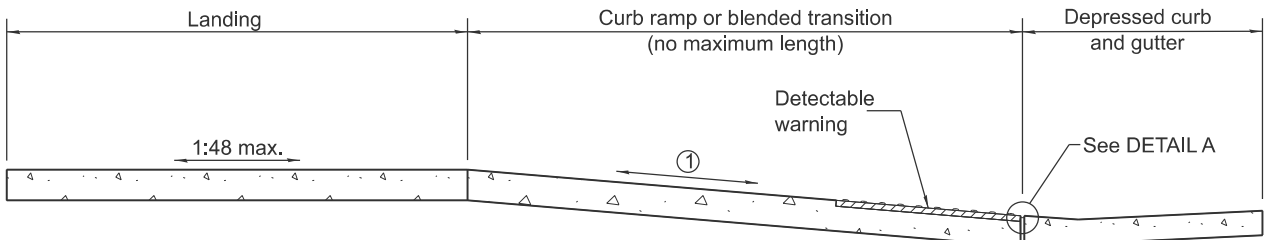


SECTION A-A

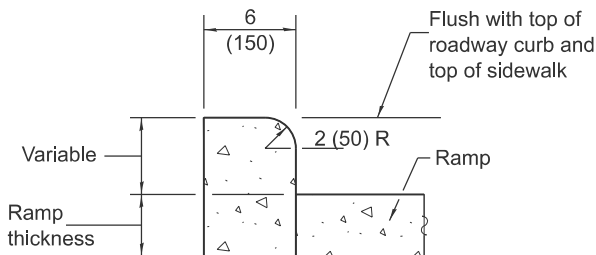
- ① The running slope of a curb ramp shall be 1:12 max. The running slope of a blended transition shall be 1:20 max.



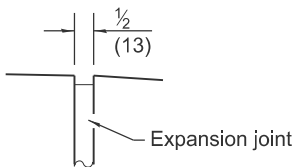
SECTION B-B



SECTION C-C



SIDE CURB DETAIL



DETAIL A

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where 1:48 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in. width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

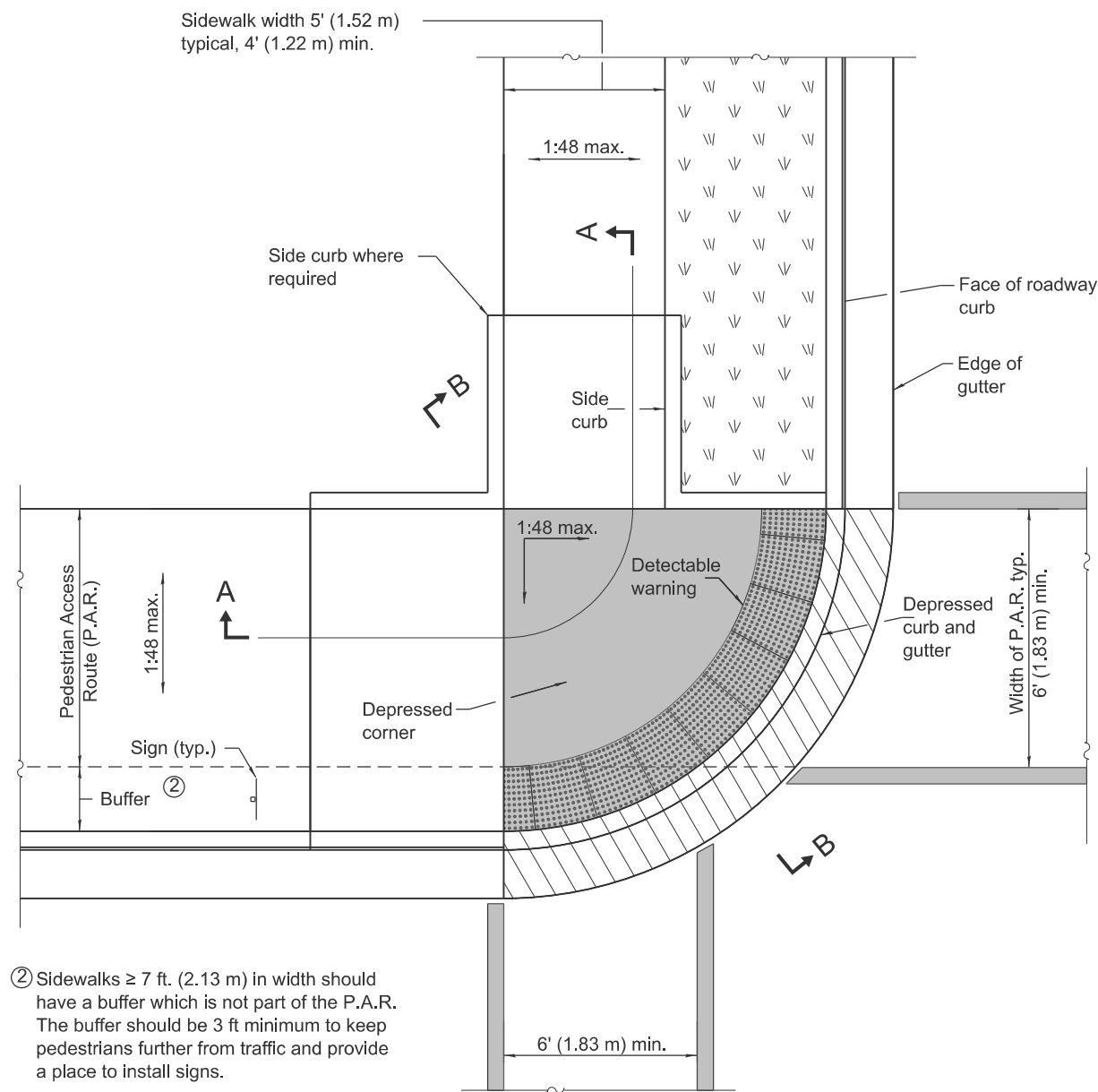
See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

DATE	REVISIONS
1-1-25	Revised turning space with landing and updated cross-slope.
1-1-19	Removed upper landing, added blended transitions and detectable warning tolerances.

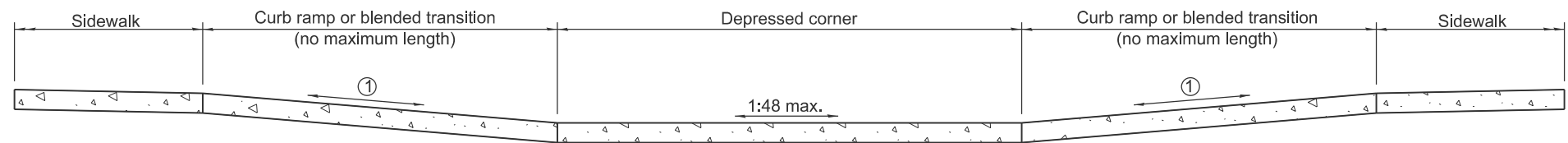
MID-BLOCK CURB RAMPS FOR SIDEWALKS

STANDARD 424016-06



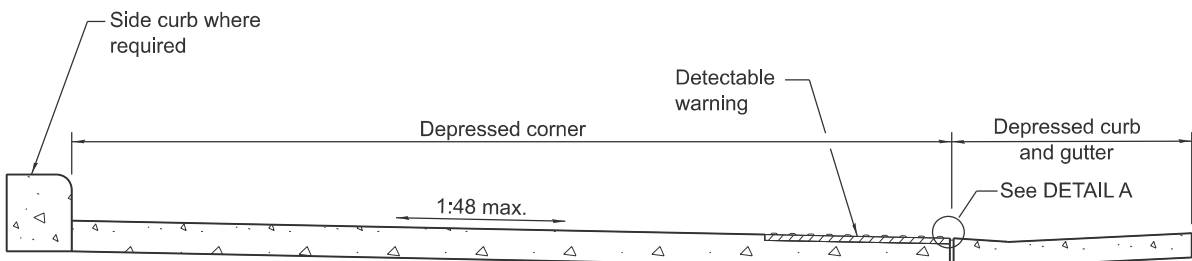
② Sidewalks ≥ 7 ft. (2.13 m) in width should have a buffer which is not part of the P.A.R. The buffer should be 3 ft minimum to keep pedestrians further from traffic and provide a place to install signs.

DEPRESSED CORNER

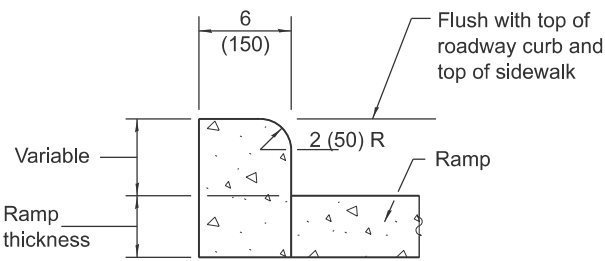


SECTION A-A

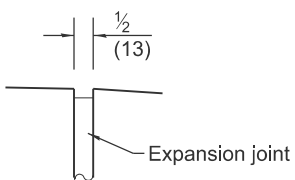
① The running slope of a curb ramp shall be 1:12 max. The running slope of a blended transition shall be 1:20 max.



SECTION B-B



SIDE CURB DETAIL



DETAIL A

GENERAL NOTES

This standard shall only be used for curb radii of 6 ft. (1.83 m) or greater.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where 1:48 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal tolerances but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in. width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

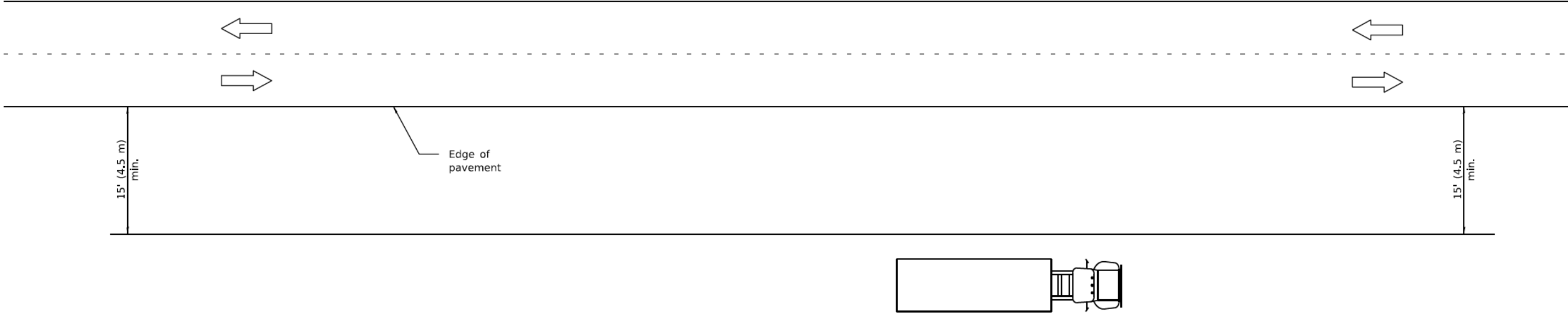
See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

DATE	REVISIONS
1-1-25	Remove min running slope from note 1 and updated cross-slope.
1-1-21	Added crosswalk striping and a "buffer" for wide sidewalks.

DEPRESSED CORNER FOR SIDEWALKS

STANDARD 424021-07



TYPICAL APPLICATIONS

- Landscaping work
- Utility work
- Fencing contracts and maintenance
- Cleaning culverts

GENERAL NOTES

This Standard is used where at all times all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

When the work operation requires that two or more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701006.

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

DATE	REVISIONS
1-1-09	Switched units to
	English (metric).
1-1-05	Revised title and notes.

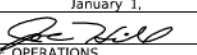
**OFF-RD OPERATIONS,
2L, 2W, MORE THAN
15' (4.5 m) AWAY**

STANDARD 701001-02

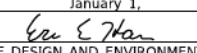


Illinois Department of Transportation

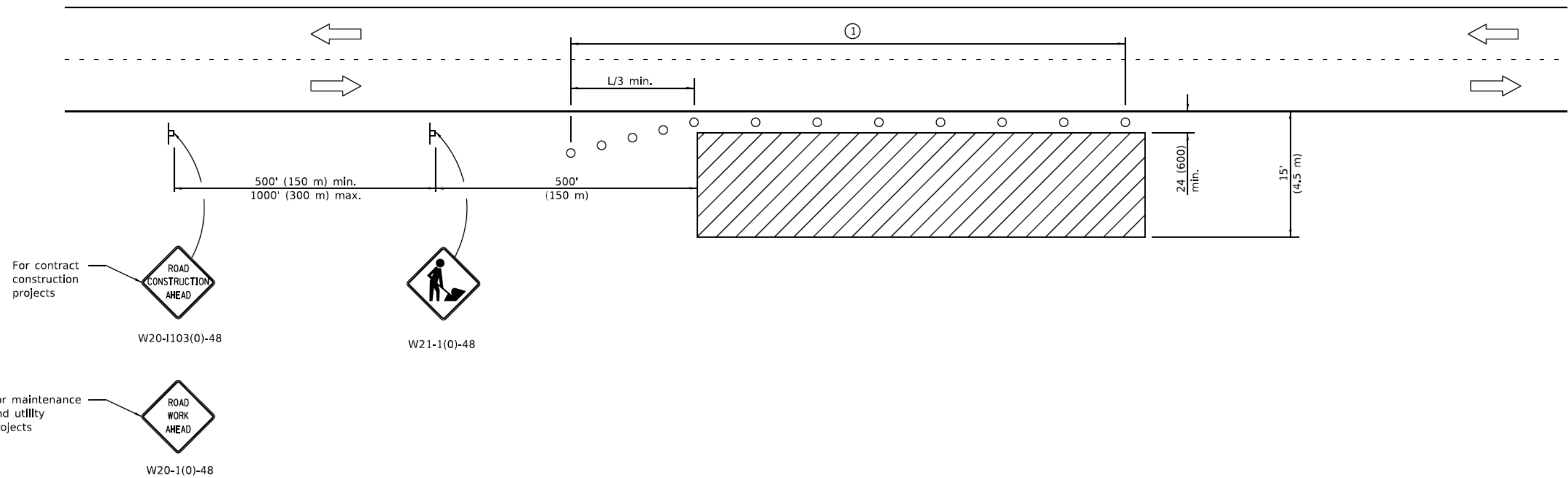
PASSED January 1, 2009


ENGINEER OF OPERATIONS

APPROVED January 1, 2009


ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



TYPICAL APPLICATIONS

Utility operations
Culvert extensions
Side slope changes
Guardrail installation and maintenance
Delineator installation
Landscaping operations
Shoulder repair
Sign installation and maintenance

SYMBOLS

-  Work area
-  Sign
-  Cone, drum or barricade

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24' (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE

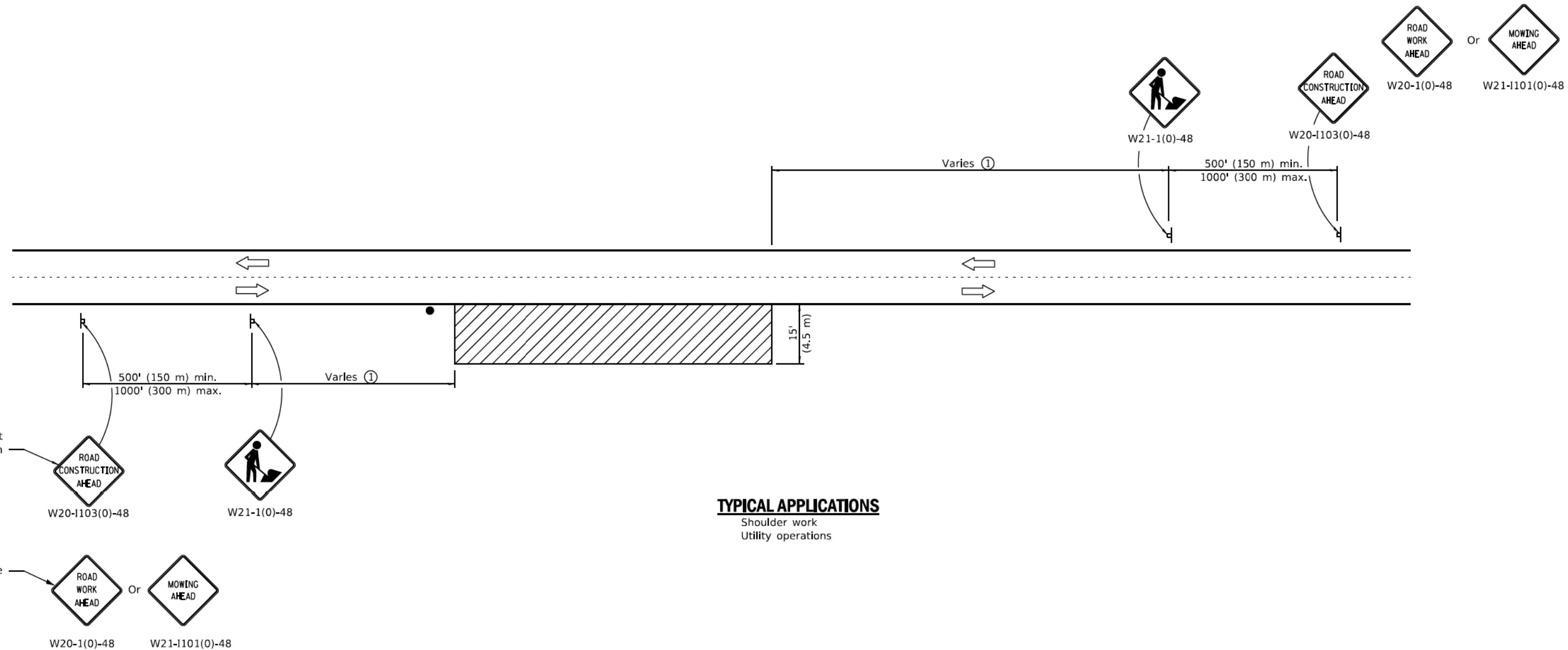
STANDARD 701006-05

Illinois Department of Transportation

PASSED January 1, 2014
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



TYPICAL APPLICATIONS
Shoulder work
Utility operations

SYMBOLS

-  Work area
-  Sign
-  Flagger with traffic control sign when required

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed ½ the length required for one normal working day's operation, or 4 miles (6.4 km) whichever is less.

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the shoulder, where the average speed is 1 mph (2 km/h) or less.

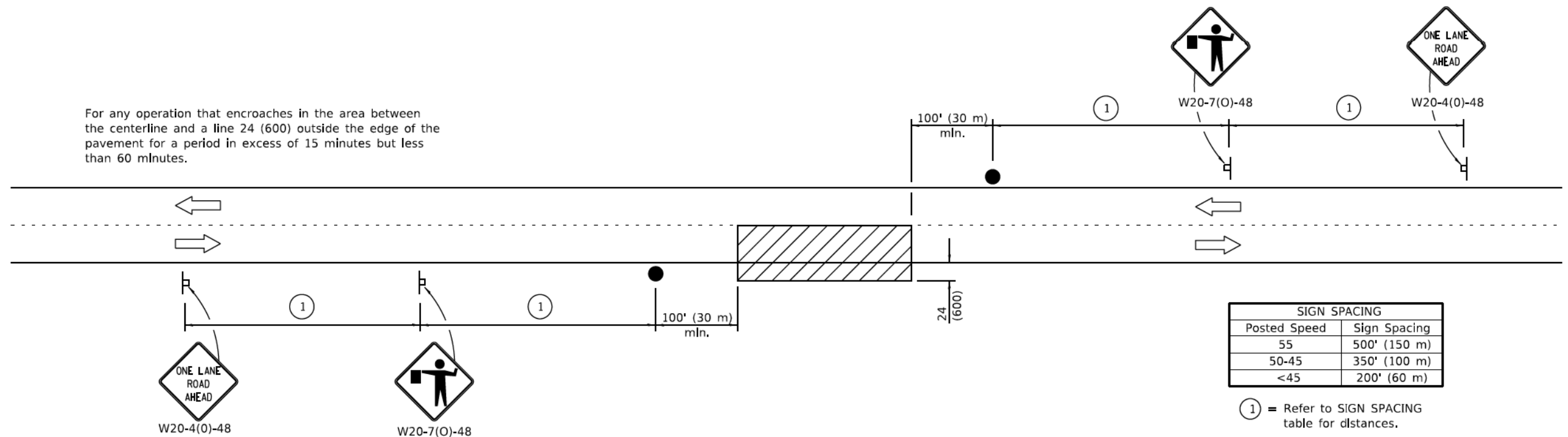
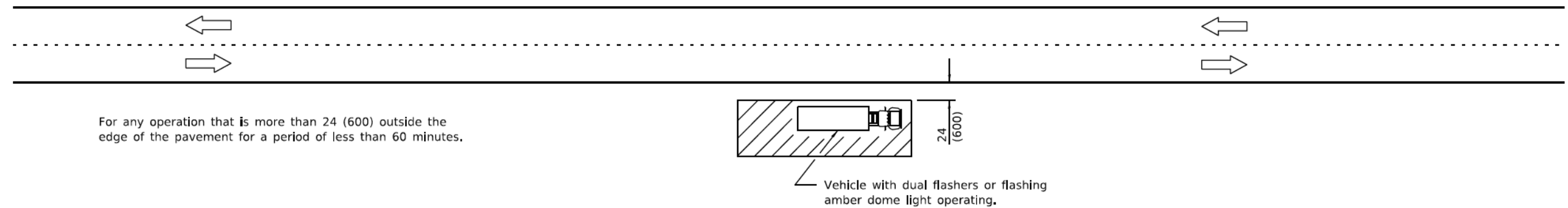
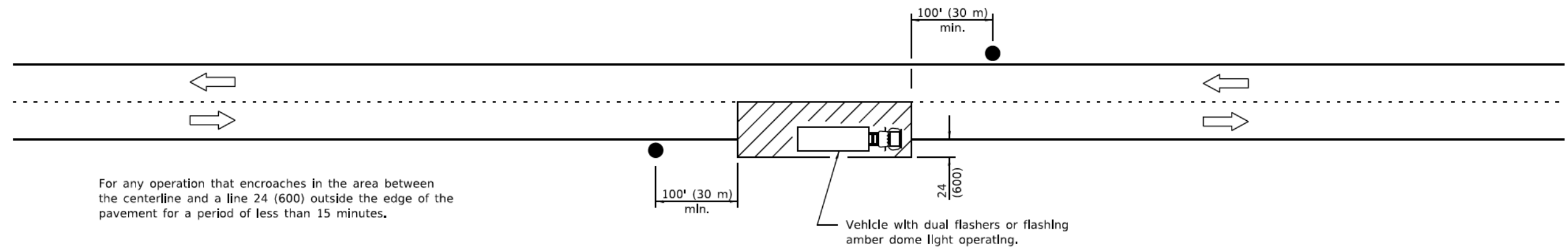
When the work operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

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

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

OFF-RD MOVING OPERATIONS,
2L, 2W, DAY ONLY

STANDARD 701011-04



TYPICAL APPLICATIONS

Marking patches
Field survey
String line
Utility operations
Cleaning up debris on pavement

SYMBOLS

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

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

Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

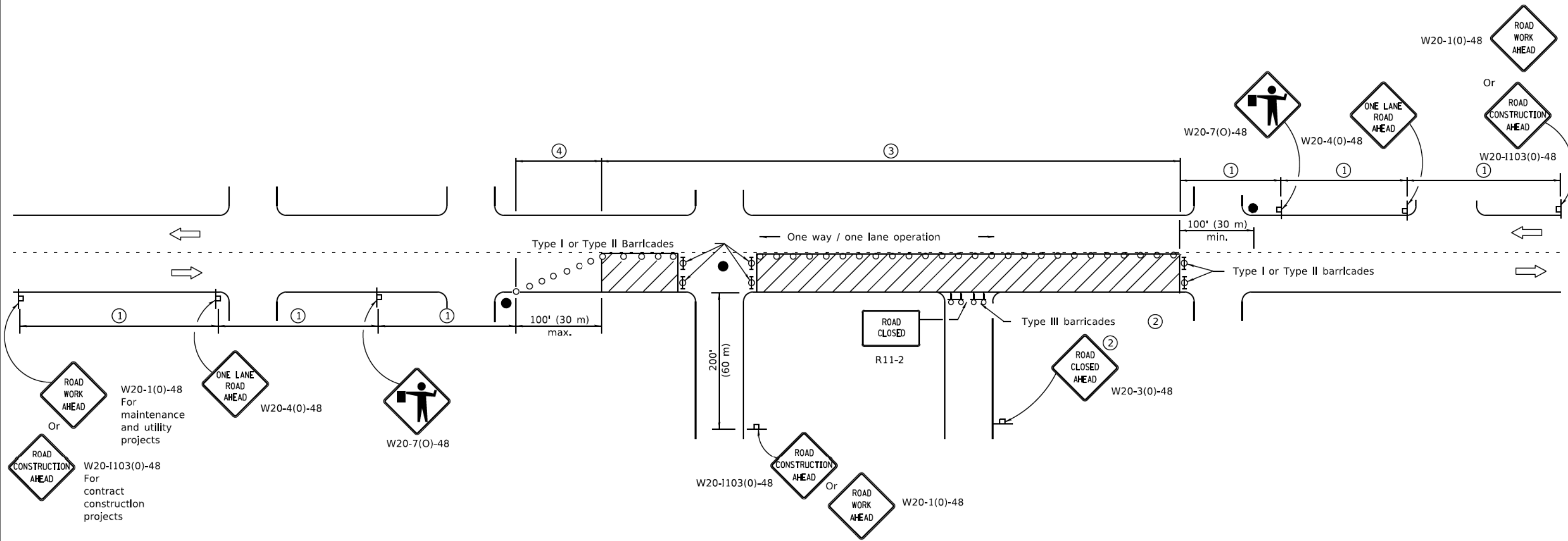
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved sideroad closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

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

Illinois Department of Transportation

PASSED January 1, 2011

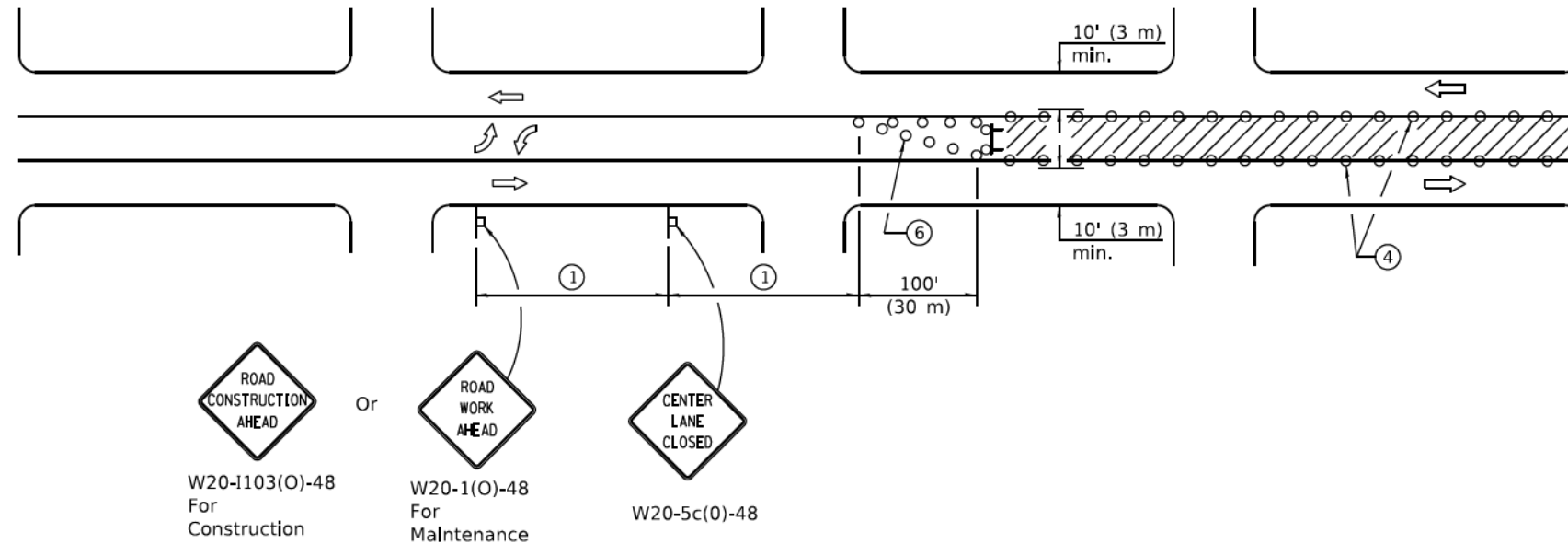
APPROVED January 1, 2011

ISSUED 1-1-97
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

URBAN LANE CLOSURE,
2L, 2W, UNDIVIDED

STANDARD 701501-06



CASE I

(Signs required for both directions)

SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- Work area
- Barricade or drum with flashing light
- Flagger with traffic control sign
- Cone, drum or barricade
- Sign on portable or permanent support
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph (70 km/h).
- ③ Required if work exceeds 500' (164 m) or 1 block.
- ④ Cones at 25' (8 m) centers for 250' (75 m) on approach. Additional cones may be placed at 50' (15 m) centers. When drums or type I or II barricades are used, the interval between devices may be doubled.
- ⑤ For approved sideroad closures.
- ⑥ Cones, drums or barricades at 20' (6 m) centers in taper.
- ⑦ Use flagger sign only when flagger is present.

GENERAL NOTES

This Standard is used to close one lane of an urban, two lane, two way roadway with a bidirectional turn lane.

Case I applies when no workers are present. When workers are present, two lanes shall be closed and traffic control shall be according to Standard 701501.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

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

Illinois Department of Transportation

APPROVED January 1, 2019
Cynthia A. [Signature]
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019
S. E. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

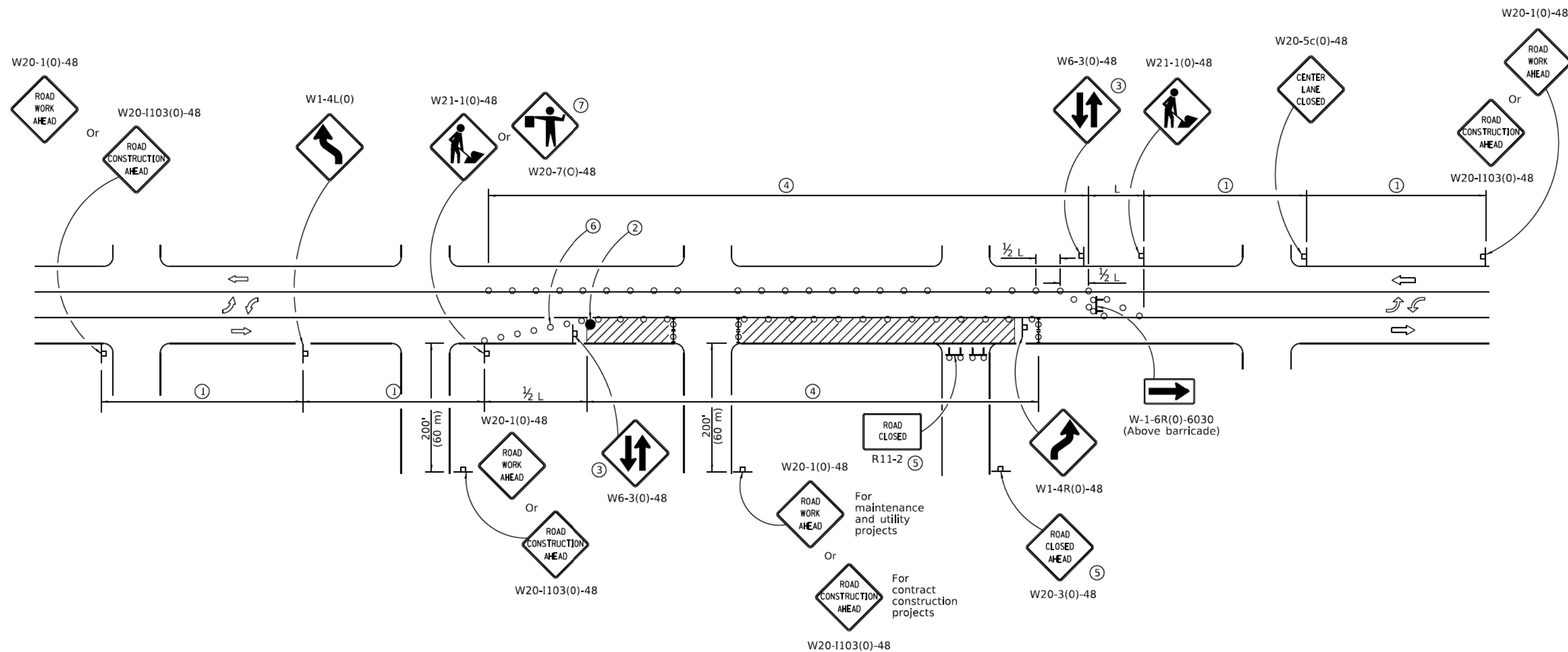
ISSUED 1-1-01

DATE	REVISIONS
1-1-19	Revised to allow cones at night.
1-1-18	Corrected sign number for
	TWO WAY TRAFFIC sign for
	CASE II.

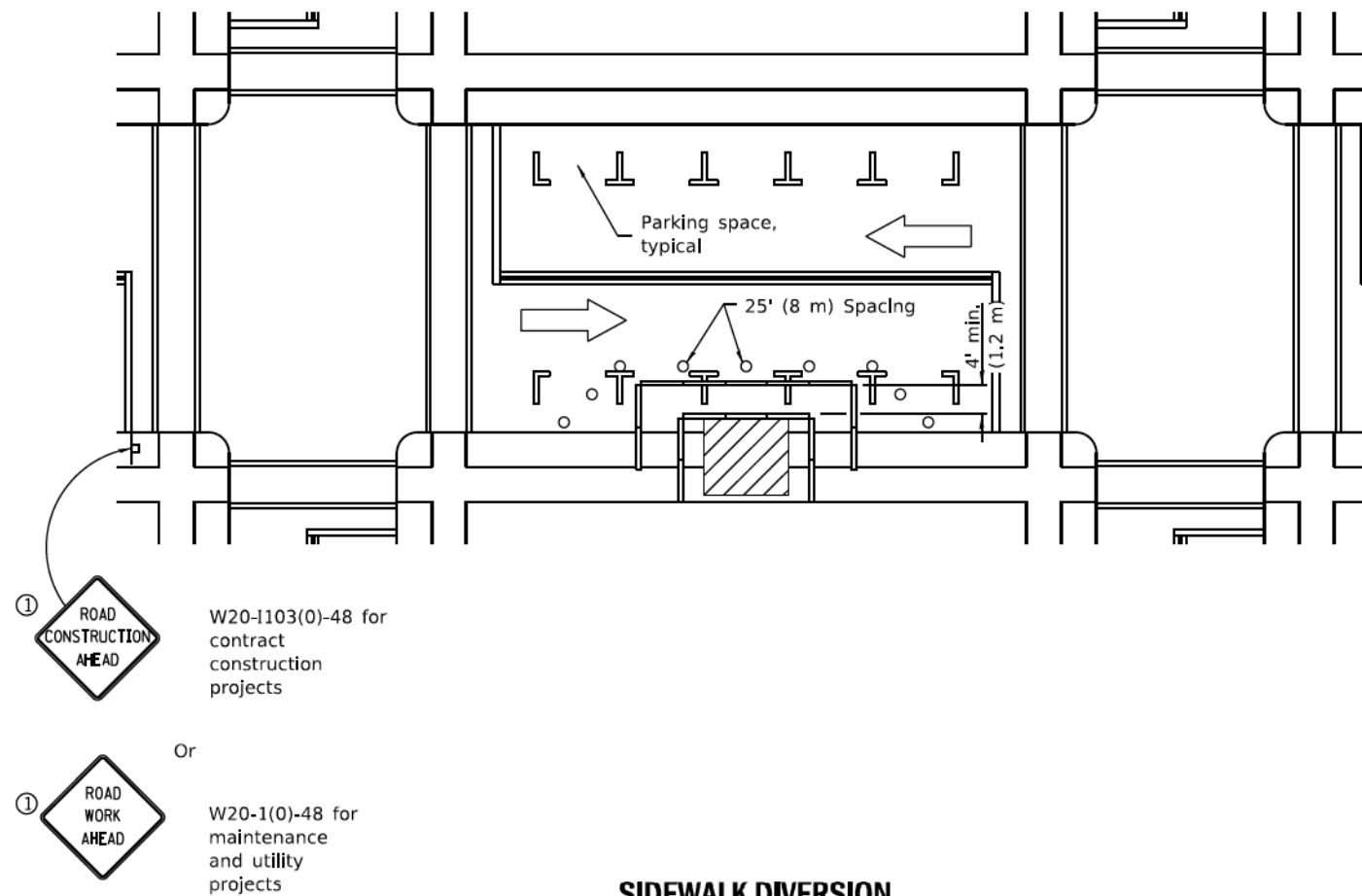
**URBAN LANE CLOSURE,
2L, 2W, WITH BIDIRECTIONAL
LEFT TURN LANE**

(Sheet 1 of 2)

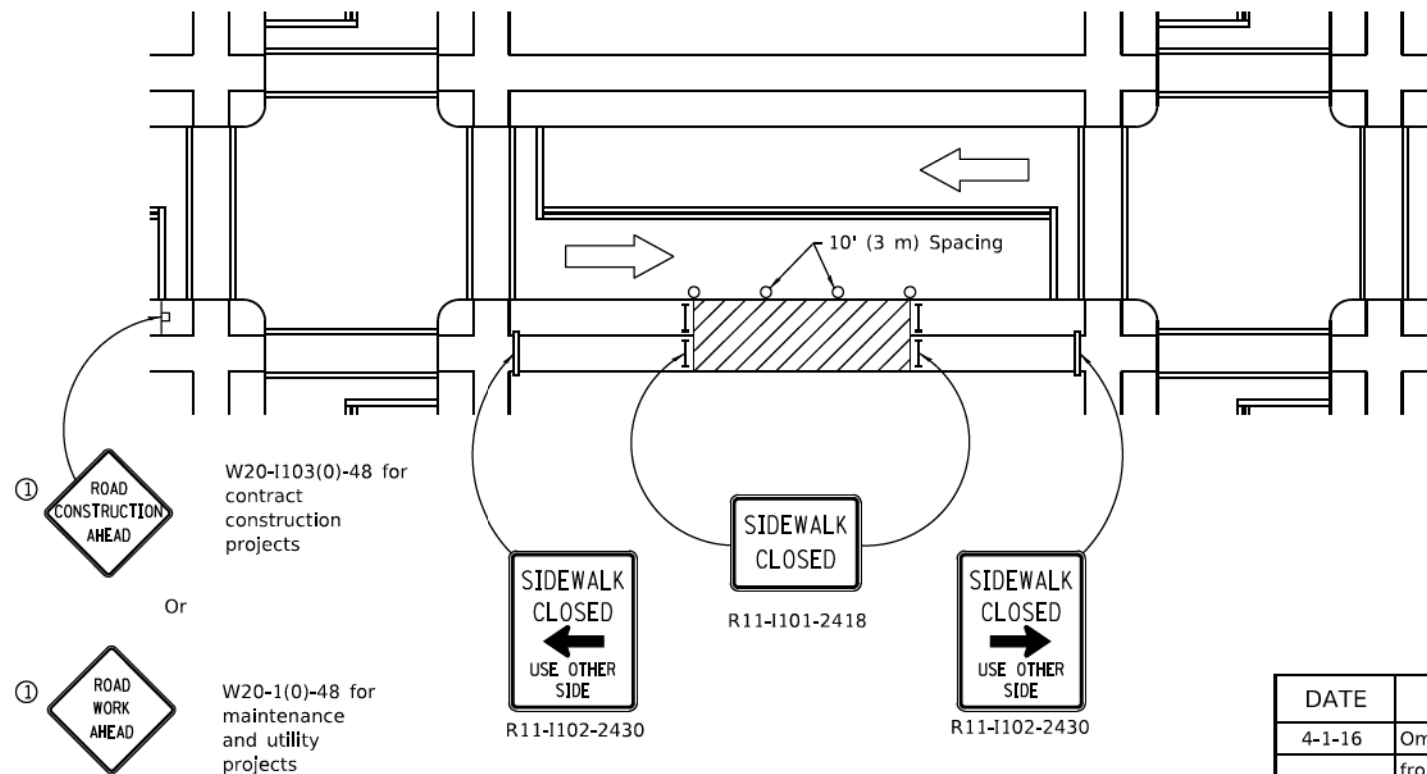
STANDARD 701502-09



CASE II



SIDEWALK DIVERSION



SIDEWALK CLOSURE

① Omit whenever duplicated by road work traffic control.

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

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

SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian channelizing barricade

Illinois Department of Transportation

PASSED April 1, 2016

Amir Q. Alai
ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016

Amir Q. Alai
ENGINEER OF DESIGN AND ENVIRONMENT

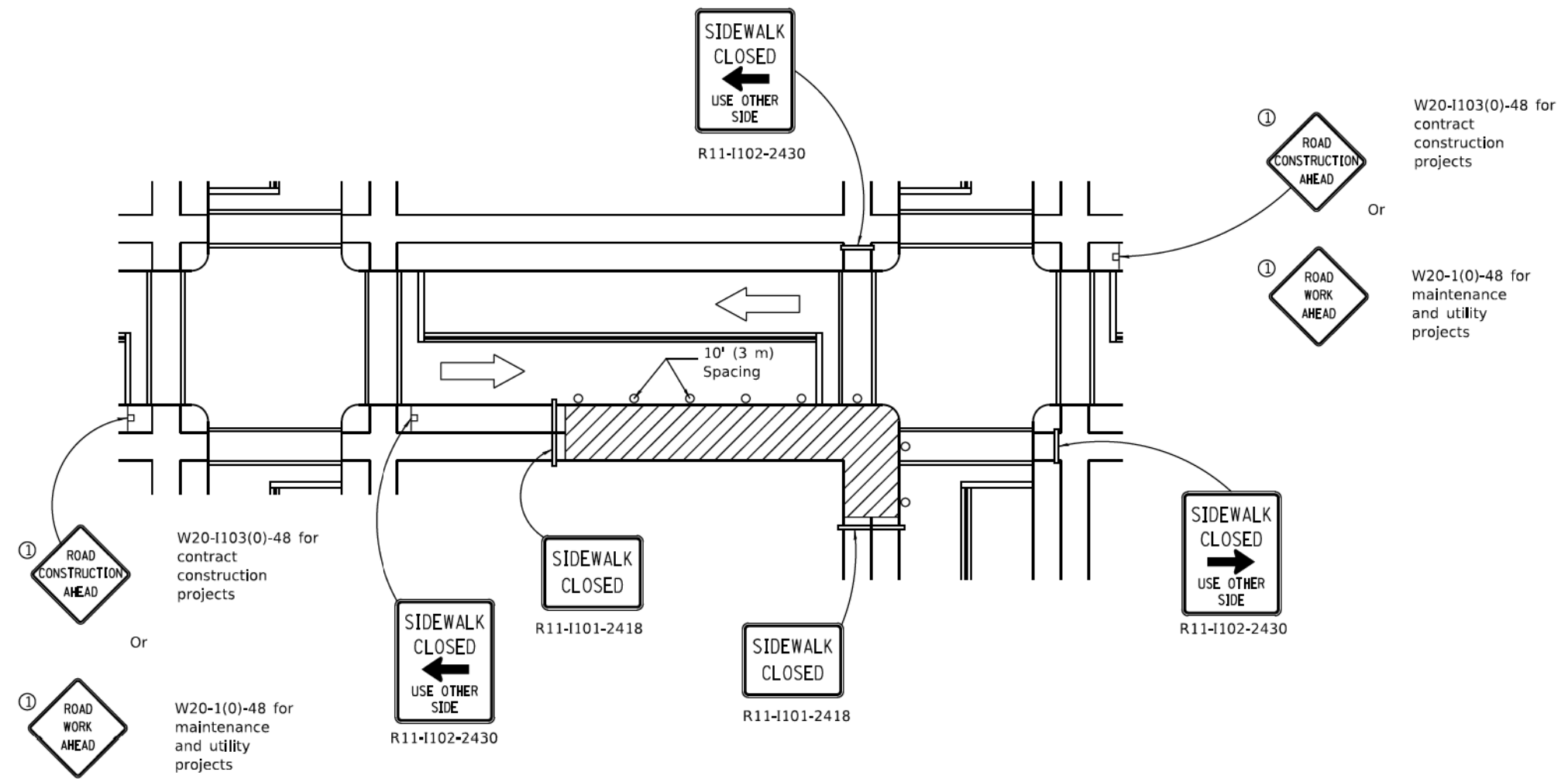
ISSUED 1-1-97

DATE	REVISIONS
4-1-16	Omitted orange safety fence
	from standard as this is
	covered in the std. spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of
	plan views. Renamed Std.

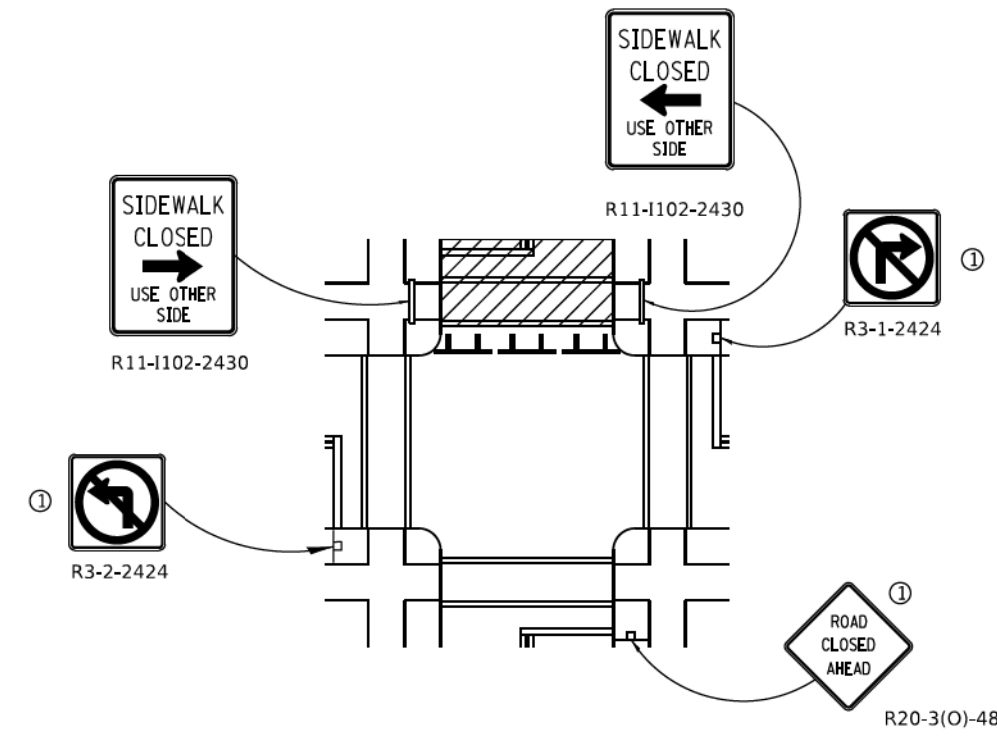
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-06



CORNER CLOSURE



CROSSWALK CLOSURE

Orange
Posted speed < 45 mph

Orange
Any posted speed

DAYTIME USE

Orange
Any posted speed

Orange
Any posted speed

DAY OR NIGHTTIME USE

TUBULAR MARKER

VERTICAL PANEL
POST MOUNTED

DRUM

TYPE I BARRICADE

TYPE II BARRICADE

TYPE III BARRICADE

DIRECTION INDICATOR
BARRICADE

VERTICAL BARRICADE

DETECTABLE PEDESTRIAN
CHANNELIZING BARRICADE

* Warning lights (if required)

Illinois Department of Transportation

APPROVED January 1, 2025

ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2025

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

TRAFFIC CONTROL
DEVICES

(Sheet 1 of 3)

STANDARD 701901-10

DATE

REVISIONS

1-1-25

Updated Temporary Rumble
Strip Detail (sht. 3).

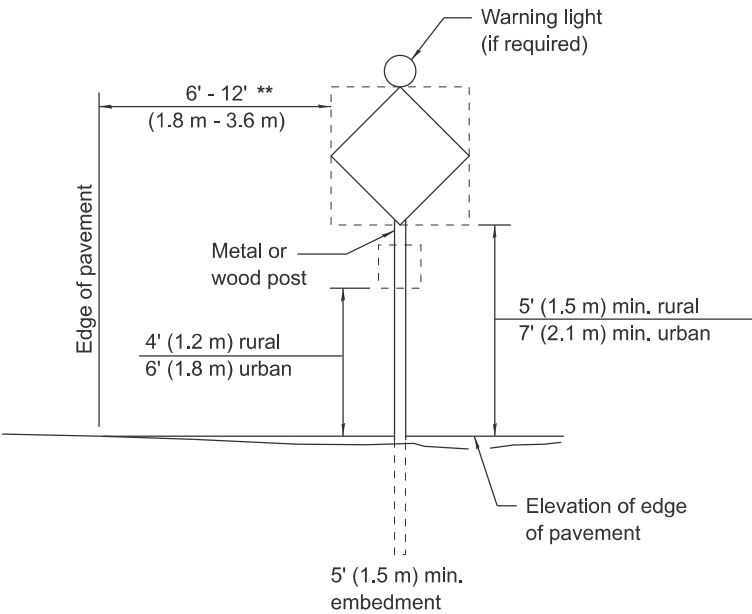
1-1-24

Revised Type III Barricade notes
(sht. 3) & moved warning light on
post mounted signs to top center.

GENERAL NOTES

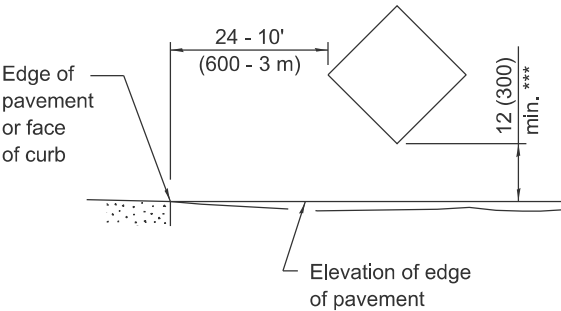
All heights shown shall be measured above the
pavement surface.

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



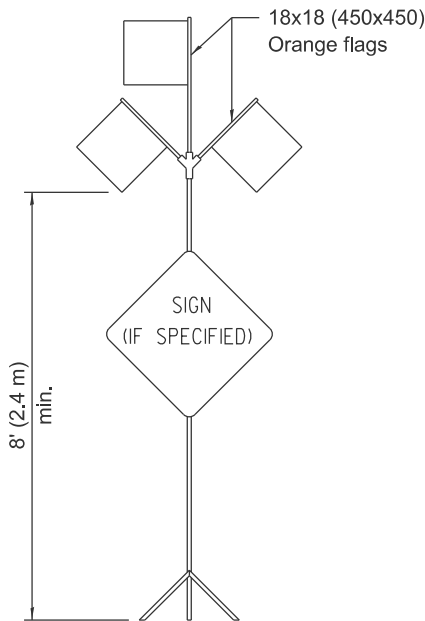
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

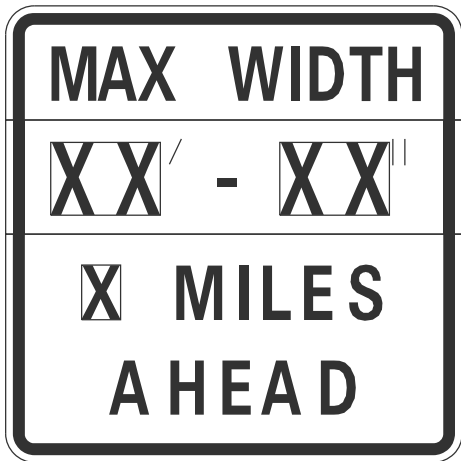


SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



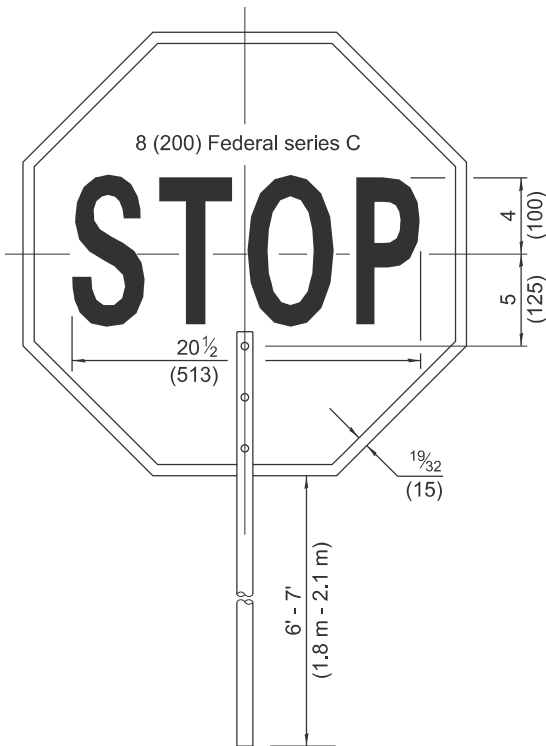
HIGH LEVEL WARNING DEVICE



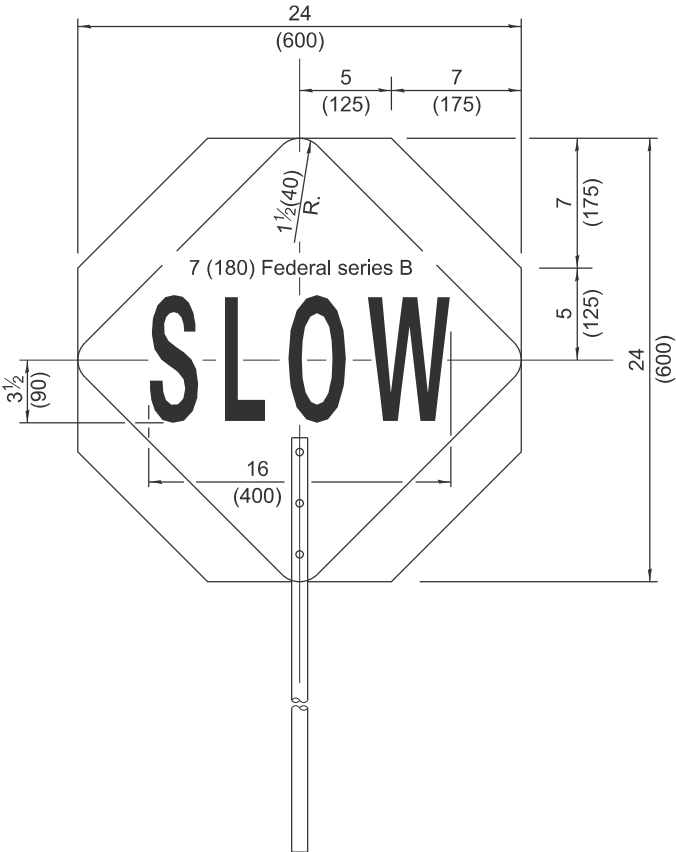
W12-I103-4848

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.



FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

ROAD CONSTRUCTION NEXT X MILES	END CONSTRUCTION
G20-I104(0)-6036	G20-I105(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING

WORK ZONE	W21-III5(0)-3618
SPEED LIMIT XX	R2-1-3648
PHOTO ENFORCED	R10-I108p-3618 ****
\$XXX FINE MINIMUM	R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

END WORK ZONE SPEED LIMIT	G20-I103-6036
---------------------------------	---------------

This sign shall be used when the above sign assembly is used.

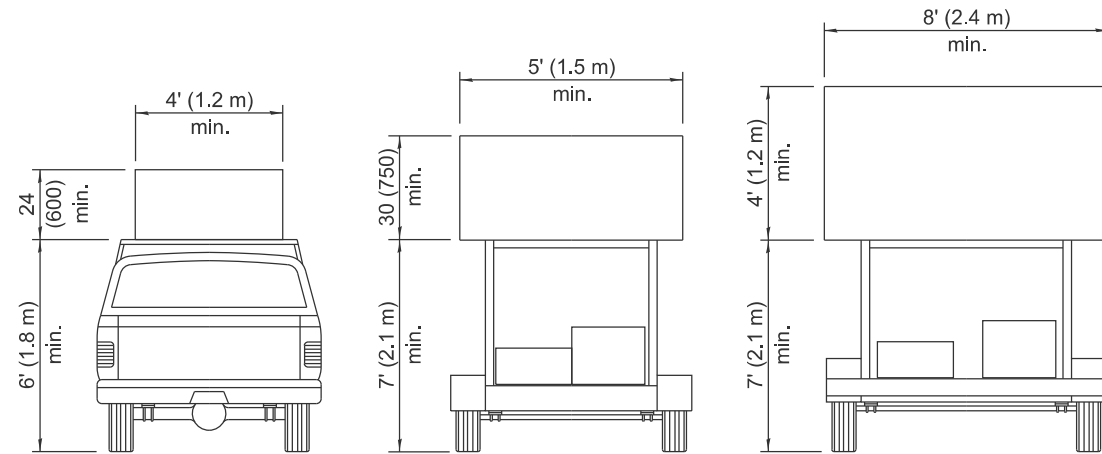
**HIGHWAY CONSTRUCTION
SPEED ZONE SIGNS**

**** R10-I108p shall only be used along roadways under the jurisdiction of the State.

**TRAFFIC CONTROL
DEVICES**

(Sheet 2 of 3)

STANDARD 701901-10

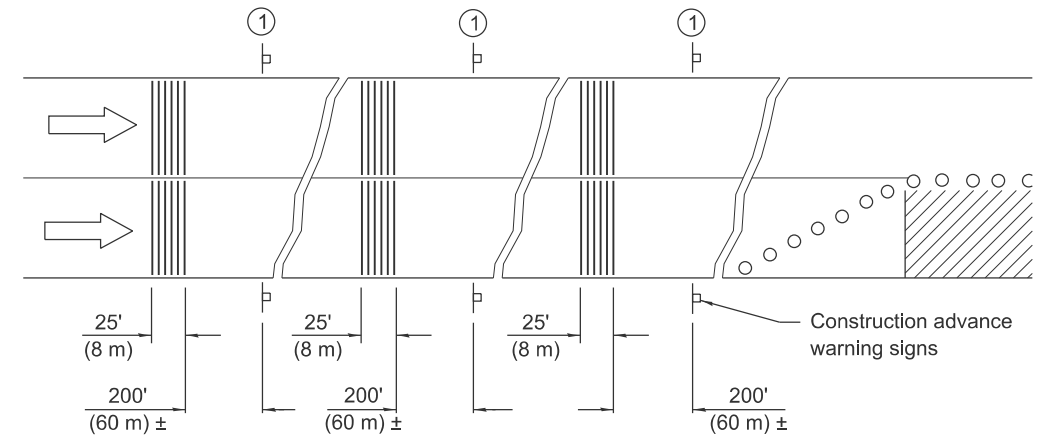


**TYPE A
ROOF
MOUNTED**

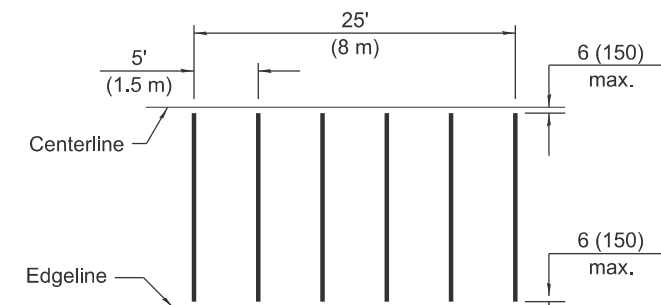
**TYPE B
ROOF OR TRAILER
MOUNTED**

**TYPE C
TRAILER
MOUNTED**

ARROW BOARDS

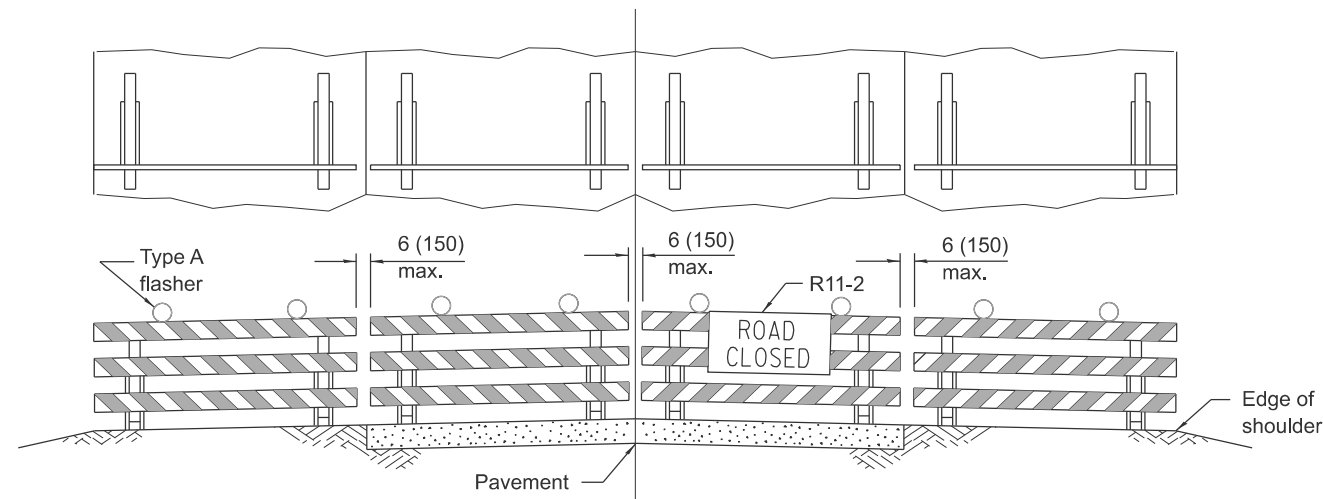


① This sign shall be omitted when median width is less than 10' (3 m).



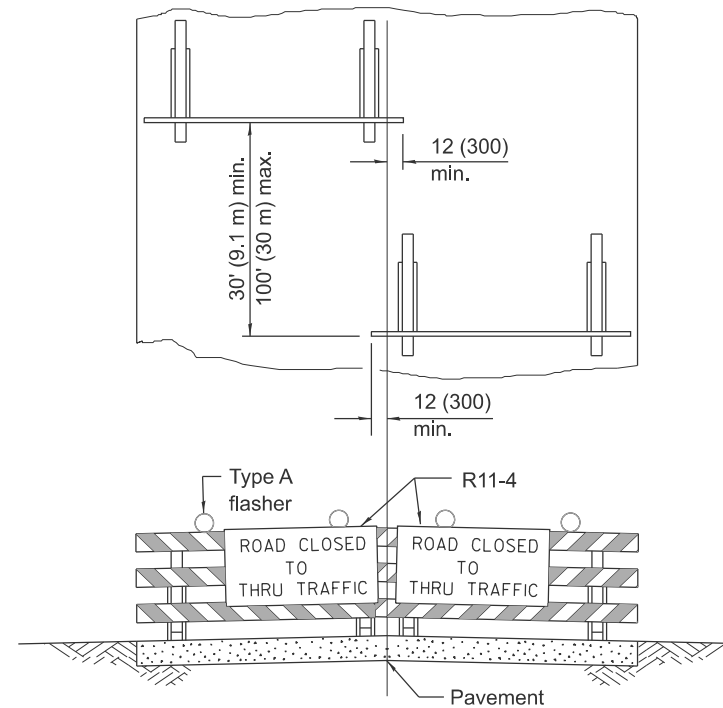
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades.

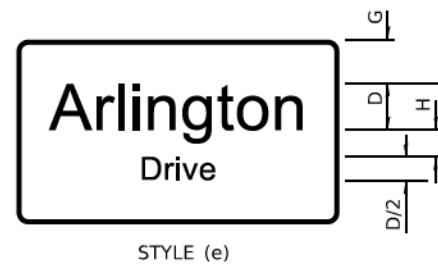
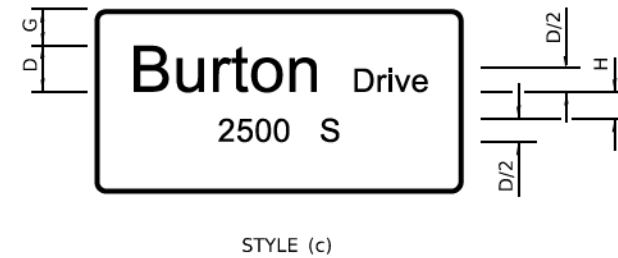
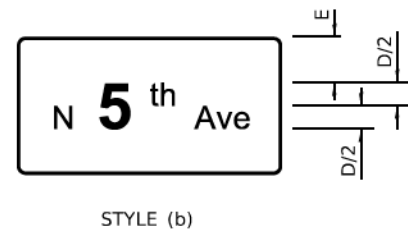
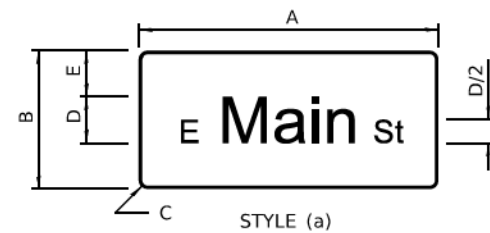


ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on both sides of the barricades.

**TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD**

If a Type III barricade with an attached sign panel which meets NCHRP 350 or MASH is not available, the sign may be mounted on an NCHRP 350 or MASH temporary sign support directly in front of the barricade.

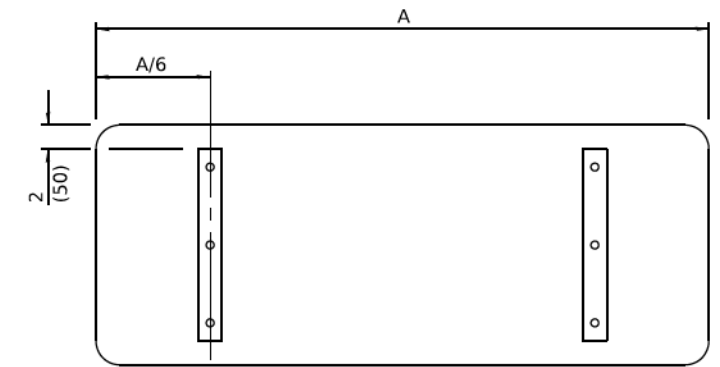


When road classification only is on the second line, it should not be abbreviated.

TYPICAL SIGN STYLES

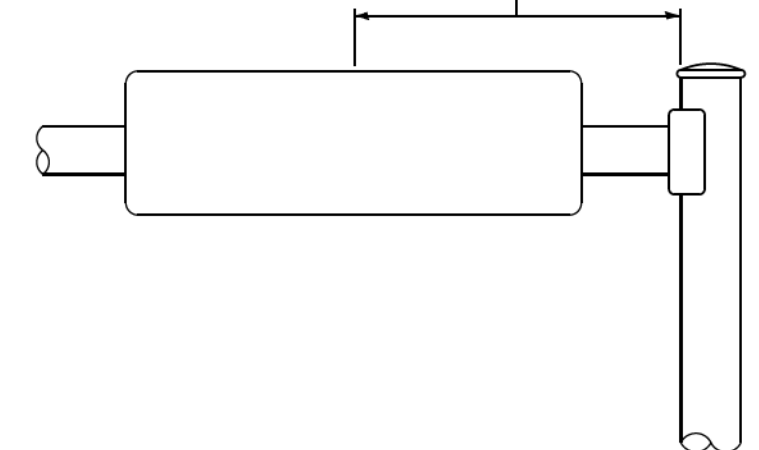
SIGN STYLE	DIMENSIONS								LETTER SIZE UC/LC PRIMARY			BORDER
	A	B	C	D	E	F	G	H	1	2	*	
a,b,d	Var.	12 (300)	1½ (40)	6 (150)	3 (75)	-	-	-	6/4½ (150/115)	-	-	⅜ (10)
	Var.	18 (450)	1½ (40)	8 (200)	5 (125)	-	-	-	8/6 (200/150)	-	-	⅝ (15)
	Var.	24 (600)	1½ (40)	10 (250)	7 (175)	-	-	-	10/7½ (250/190)	-	-	⅝ (15)
	Var.	30 (750)	1⅞ (45)	12 (300)	9 (225)	-	-	-	12/9 (400/300)	-	-	¾ (20)
c,e	Var.	24 (600)	1½ (40)	6 (150)	-	-	5½ (140)	4 (100)	6/4½ (150/115)	-	3 (75)	⅝ (15)
	Var.	30 (750)	1⅞ (45)	8 (200)	-	-	7 (175)	4½ (115)	8/6 (200/150)	-	4 (100)	¾ (20)
	Var.	36 (900)	2¼ (60)	10 (250)	-	-	7½ (190)	6 (150)	10/7½ (250/190)	-	5 (125)	¾ (20)
	Var.	42 (1050)	3 (75)	12 (300)	-	-	8½ (215)	7 (175)	12/9 (400/300)	-	6 (150)	1 (25)
f	Var.	24 (600)	1½ (40)	6 (150)	4 (100)	-	-	-	6/4½ (150/115)	6/4½ (150/115)	-	⅝ (15)
	Var.	30 (750)	1⅞ (45)	8 (200)	4½ (115)	5 (125)	-	-	8/6 (200/150)	8/6 (200/150)	-	¾ (20)
	Var.	42 (1050)	3 (75)	10 (250)	7½ (190)	7 (175)	-	-	10/7½ (250/190)	10/7½ (250/190)	-	1 (25)
	Var.	48 (1200)	3 (75)	12 (300)	7½ (190)	8 (200)	-	-	12/9 (400/300)	12/9 (400/300)	-	1 (25)

* Supplemental Messages



SUPPORTING CHANNELS

8' (2.4 m) max. for mastarms 16' (4.9 m) through 55' (16.8 m), 18' (5.5 m) max. for mastarms 56' (17.1 m) through 75' (22.9 m) to mid-point of sign panel or blackout sign.



MOUNTING LOCATION

GENERAL NOTES

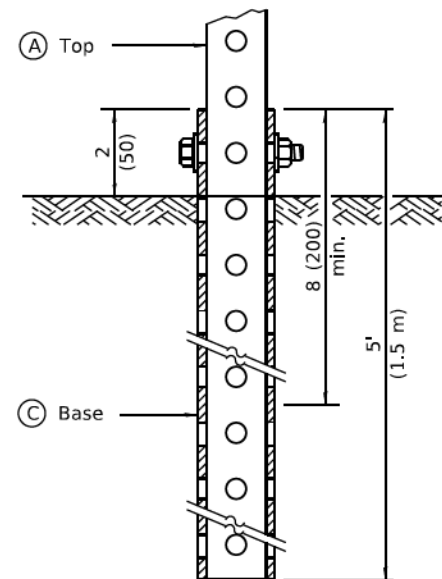
All signs shall have a white reflectorized legend and border on a green reflectorized background.

The sign panels shall be mounted as shown on Standard 720001 or as specified in the plans.

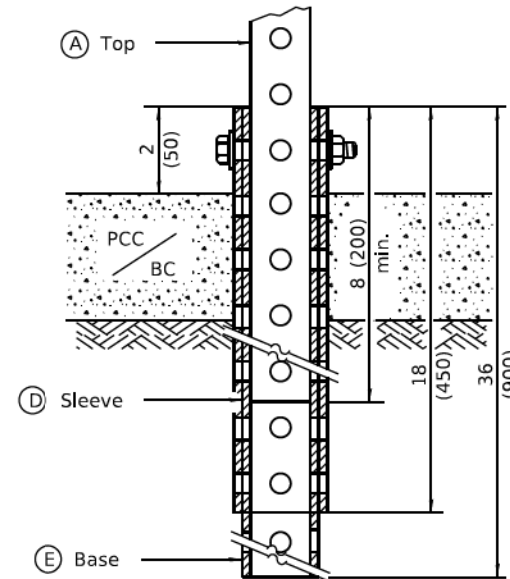
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS	MAST ARM MOUNTED STREET NAME SIGNS
1-1-18	Revised MOUNTING LOCATION detail.	
1-1-12	Revised table and lettering to upper/lower case per current MUTCD.	
		STANDARD 720016-04

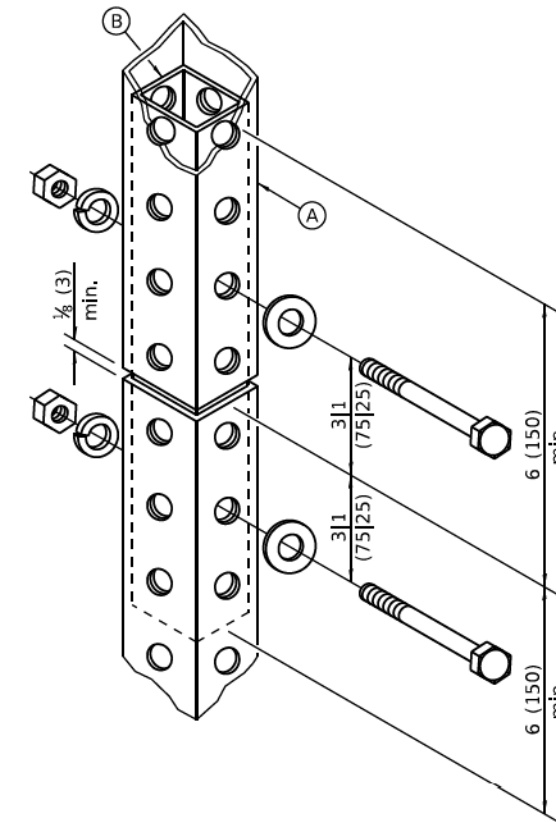
Illinois Department of Transportation	
PASSED January 1, 2018	ISSUED 1-1-97
ENGINEER OF OPERATIONS	
APPROVED January 1, 2018	
ENGINEER OF DESIGN AND ENVIRONMENT	



GROUND MOUNT DETAIL



PAVEMENT MOUNT DETAIL



SPLICE DETAIL

(A)	2 x 2 x var. (51 x 51 var.)
(B)	1 3/4 x 1 3/4 x 12 (44 x 44 x 300)
(C)	2 1/4 x 2 1/4 x 60 (57 x 57 x 1500)
(D)	2 1/2 x 2 1/2 x 18 (64 x 64 x 450)
(E)	2 1/4 x 2 1/4 x 36 (57 x 57 x 900)

GENERAL NOTES

All bolts 3/8" (M10) hex head zinc or cadmium plated.

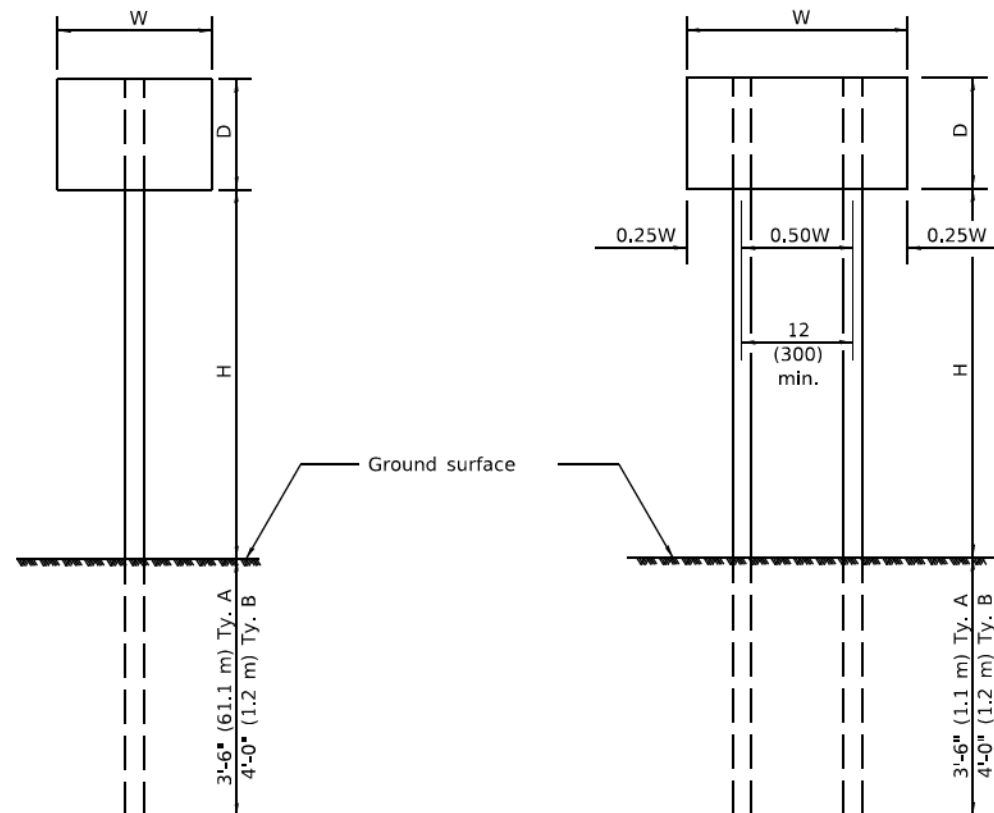
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	New Standard. Used to be part of Standard 720006.

**TELESCOPING STEEL
SIGN SUPPORT**

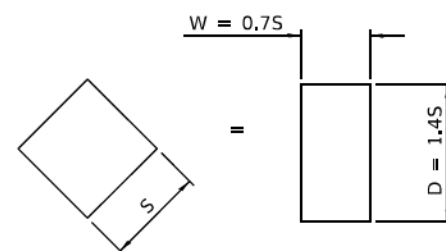
STANDARD 728001-01

PASSED <u>January 1, 2009</u> ENGINEER OF OPERATIONS	ISSUED 1-1-07
APPROVED <u>January 1, 2009</u> ENGINEER OF DESIGN AND ENVIRONMENT	



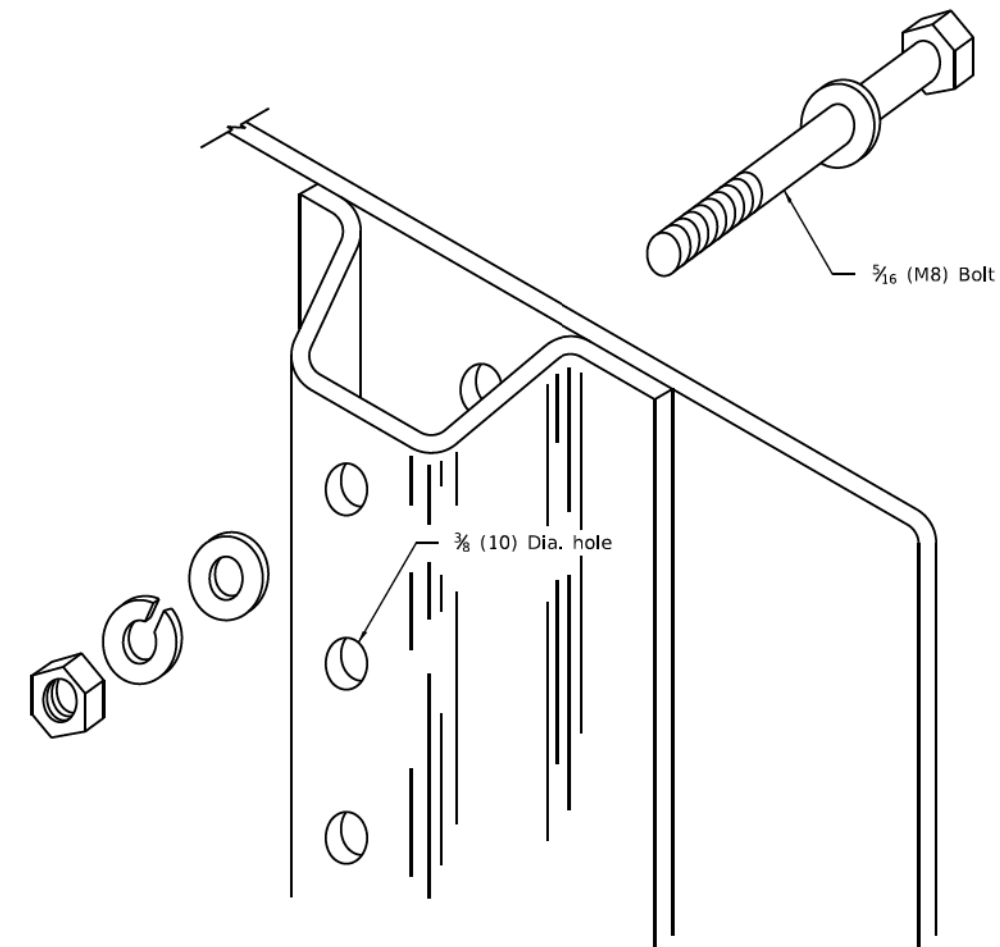
ONE POST INSTALLATION

TWO POST INSTALLATION



For diamond shaped sign with side S as shown, use required post size for a sign with $W = 0.75$ and $D = 1.45$.

SIGN DEPTH (D)	H	NO. AND TYPE OF POST FOR SIGN WIDTH (W)				
		12 (300)	18 (450)	24 (600)	30 (750)	36 (900)
18 (450)	5'-0" (1.5 m)	A	A	A	A	A
	5'-6" (1.7 m)	A	A	A	A	A
	6'-0" (1.8 m)	A	A	A	A	B
	6'-6" (2.0 m)	A	A	A	A	B
	7'-0" (2.1 m)	A	A	A	A	B
	7'-6" (2.3 m)	A	A	A	A	B
	8'-0" (2.4 m)	A	A	A	A	B
	8'-6" (2.6 m)	A	A	A	B	B
	9'-0" (2.7 m)	A	A	A	B	B
24 (600)	5'-0" (1.5 m)	A	A	A	A	B
	5'-6" (1.7 m)	A	A	A	A	B
	6'-0" (1.8 m)	A	A	A	B	B
	6'-6" (2.0 m)	A	A	A	B	B
	7'-0" (2.1 m)	A	A	A	B	B
	7'-6" (2.3 m)	A	A	A	B	B
	8'-0" (2.4 m)	A	A	A	B	2A
	8'-6" (2.6 m)	A	A	B	B	2A
	9'-0" (2.7 m)	A	A	B	B	2A
30 (750)	5'-0" (1.5 m)	A	A	A	B	B
	5'-6" (1.7 m)	A	A	A	B	2A
	6'-0" (1.8 m)	A	A	A	B	2A
	6'-6" (2.0 m)	A	A	A	B	2A
	7'-0" (2.1 m)	A	A	B	B	2A
	7'-6" (2.3 m)	A	A	B	B	2A
	8'-0" (2.4 m)	A	A	B	B	2A
	8'-6" (2.6 m)	A	A	B	2A	2A
	9'-0" (2.7 m)	A	A	B	2A	2A
36 (900)	5'-0" (1.5 m)	A	A	B	B	2A
	5'-6" (1.7 m)	A	A	B	B	2A
	6'-0" (1.8 m)	A	A	B	B	2A
	6'-6" (2.0 m)	A	A	B	2A	2A
	7'-0" (2.1 m)	A	A	B	2A	2A
	7'-6" (2.3 m)	A	A	B	2A	2A
	8'-0" (2.4 m)	A	B	B	2A	2A
	8'-6" (2.6 m)	A	B	B	2A	2B
	9'-0" (2.7 m)	A	B	2A	2A	2B
4'-0" (1.2 m)	5'-0" (1.5 m)	A	A	B	2A	2A
	5'-6" (1.7 m)	A	B	B	2A	2A
	6'-0" (1.8 m)	A	B	B	2A	2A
	6'-6" (2.0 m)	A	B	2A	2A	2B
	7'-0" (2.1 m)	A	B	2A	2A	2B
	7'-6" (2.3 m)	A	B	2A	2B	2B
	8'-0" (2.4 m)	A	B	2A	2B	2B
	8'-6" (2.6 m)	B	B	2B	2B	2B
	9'-0" (2.7 m)	B	2A	2B	2B	2B



DETAIL OF MOUNTING SIGN TO POST

NOTE: Minimum of 2 bolts per post required.

GENERAL NOTES

DESIGN: Current AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

LOADING: for 60 mph (95 km/h) wind velocity with 30% gust factor, normal to sign.

SOIL PRESSURE: Minimum allowable soil pressure 1.25 tsf (120 kPa).

See Standard 720011 for details of Types A and B posts.

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

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Renum. Standard 2363-2.

APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

STANDARD 729001-01

Illinois Department of Transportation

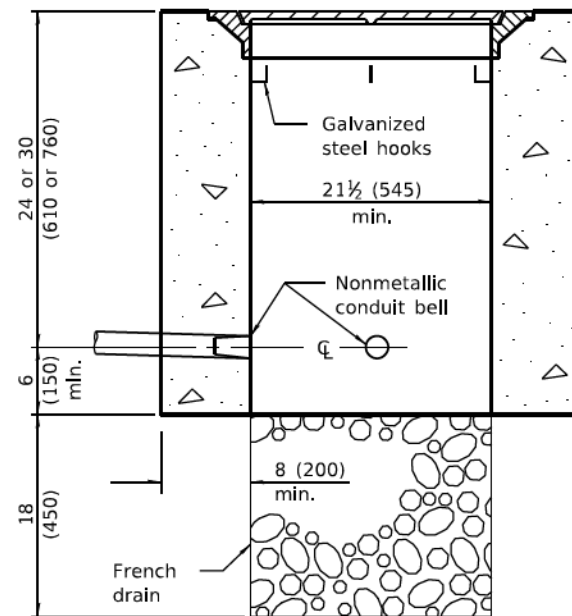
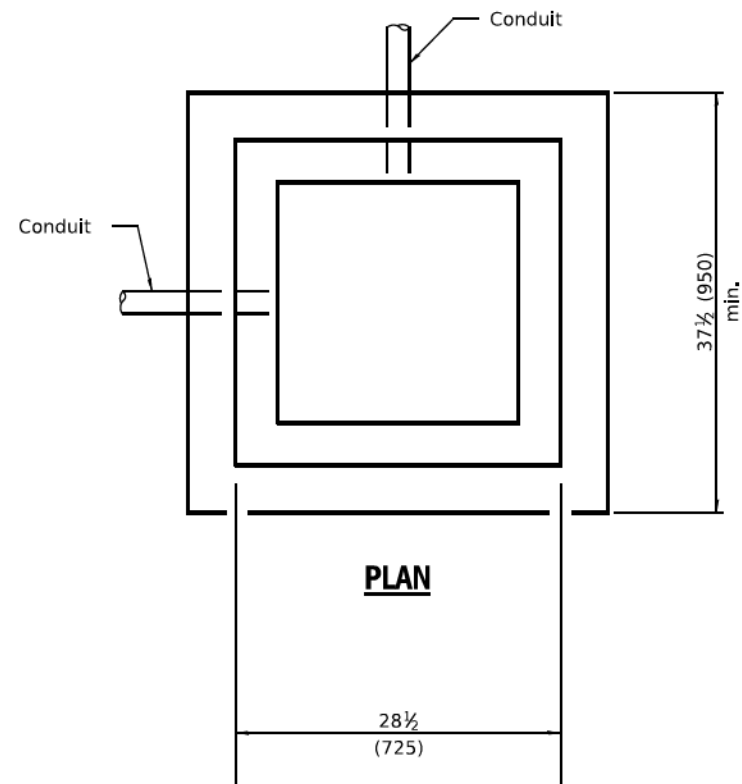
PASSED January 1, 2009

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2009

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

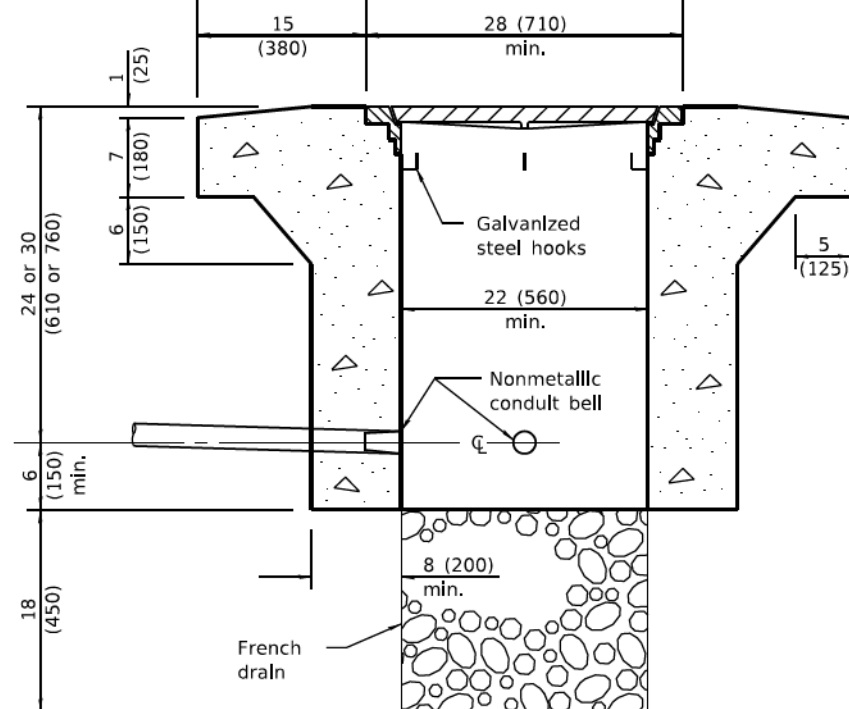
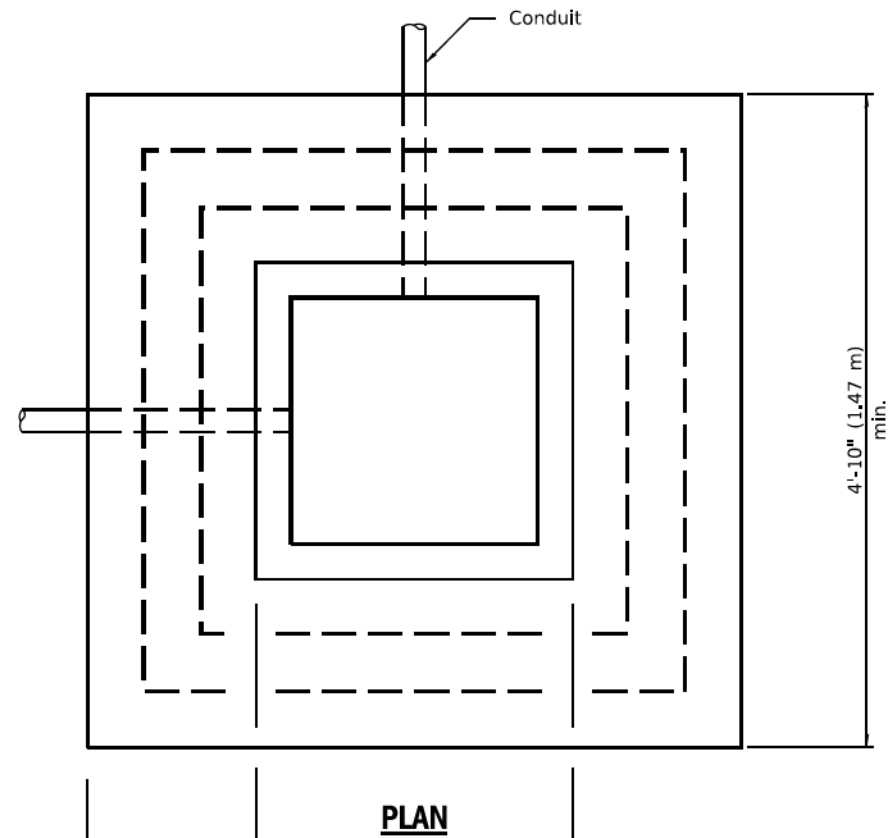


ELEVATION

PORTLAND CEMENT CONCRETE

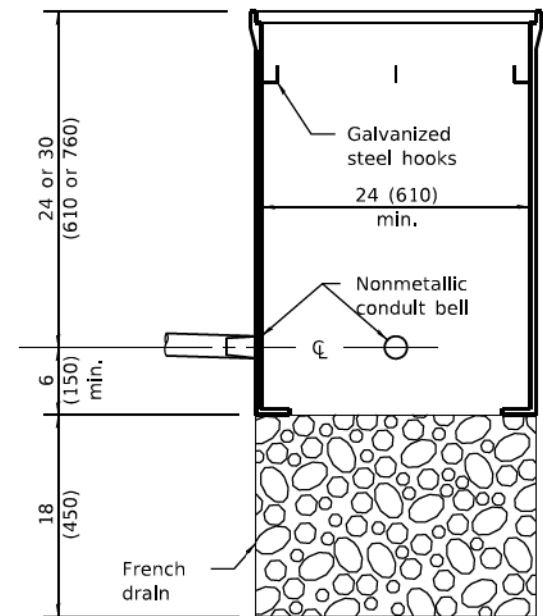
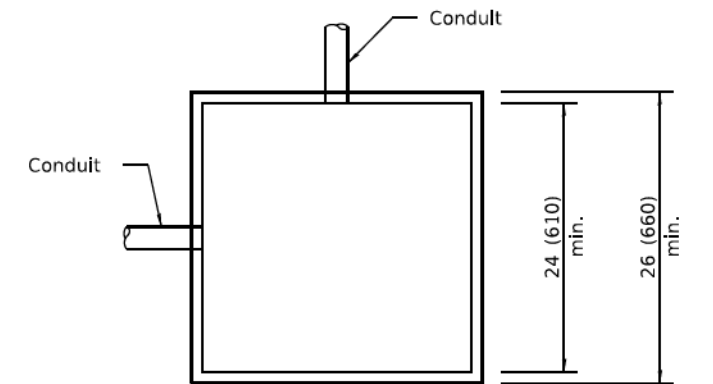
QUANTITIES

Depth	Concrete yd ³ (m ³)	
	Handhole	Heavy Duty Handhole
30 (762)	0.61 (0.47)	0.98 (0.75)
36 (914)	0.73 (0.56)	1.10 (0.84)



ELEVATION

**PORTLAND CEMENT CONCRETE
HEAVY DUTY**



ELEVATION

COMPOSITE CONCRETE

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

DATE	REVISIONS
1-1-15	Corrected dimension on heavy duty handhole. Added concrete quantities table.
1-1-09	Switched units to English (metric).

HANDHOLES

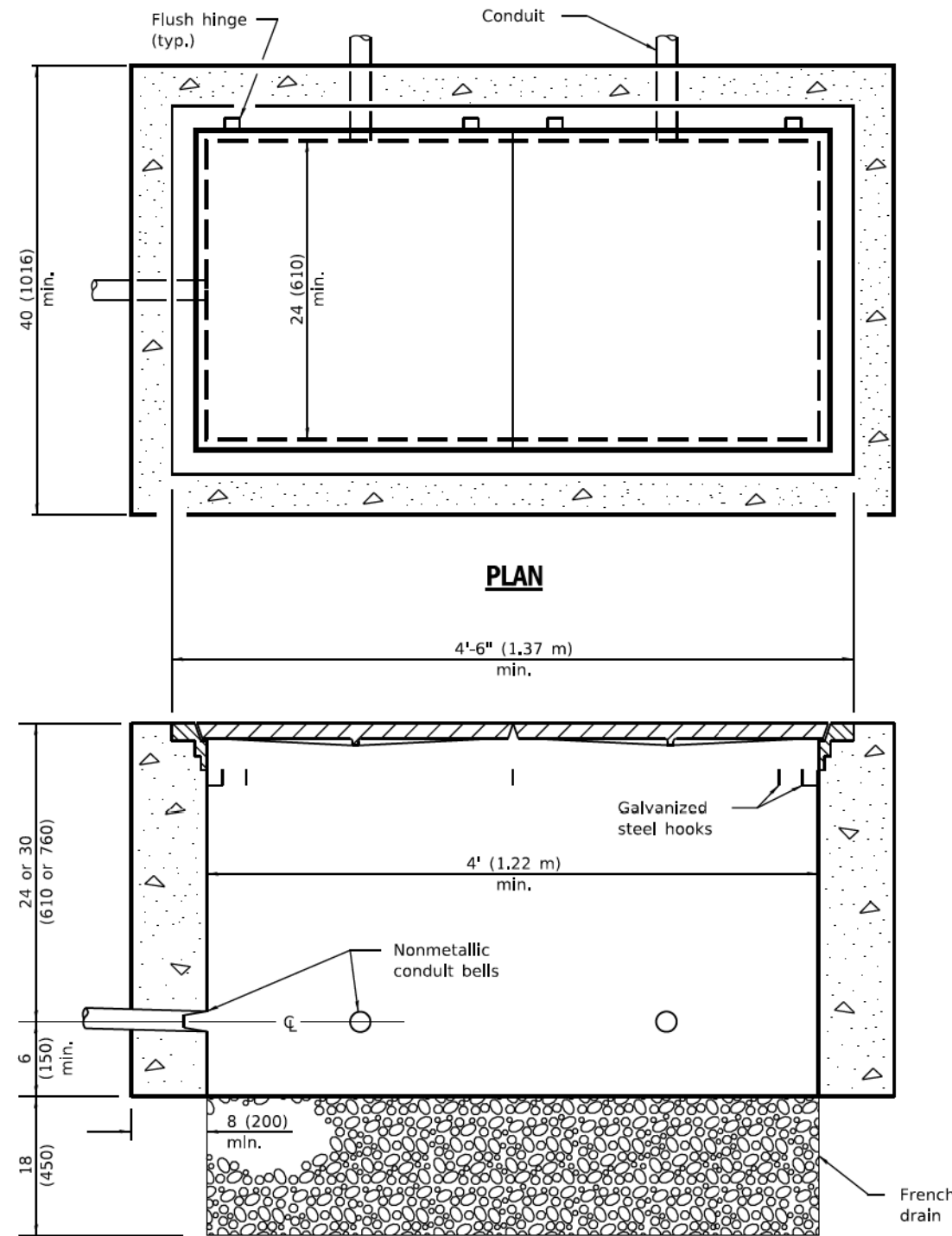
STANDARD 814001-03

Illinois Department of Transportation

PASSED January 1, 2015
Amy Ellis
 ENGINEER OF OPERATIONS

APPROVED January 1, 2015
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

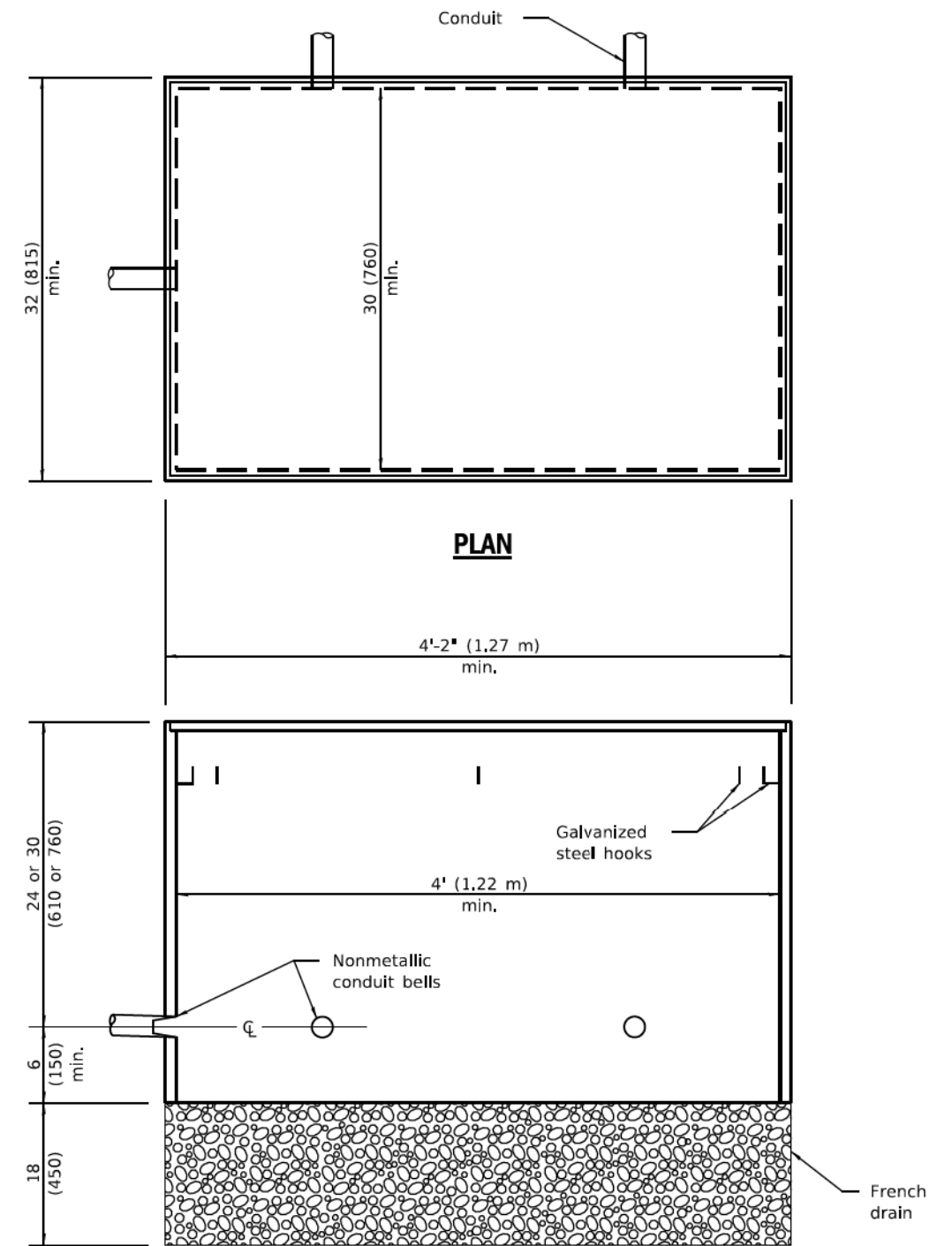
ISSUED 1-1-97



PLAN

ELEVATION

PORTLAND CEMENT CONCRETE



PLAN

ELEVATION

COMPOSITE CONCRETE

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

Illinois Department of Transportation

PASSED January 1, 2021

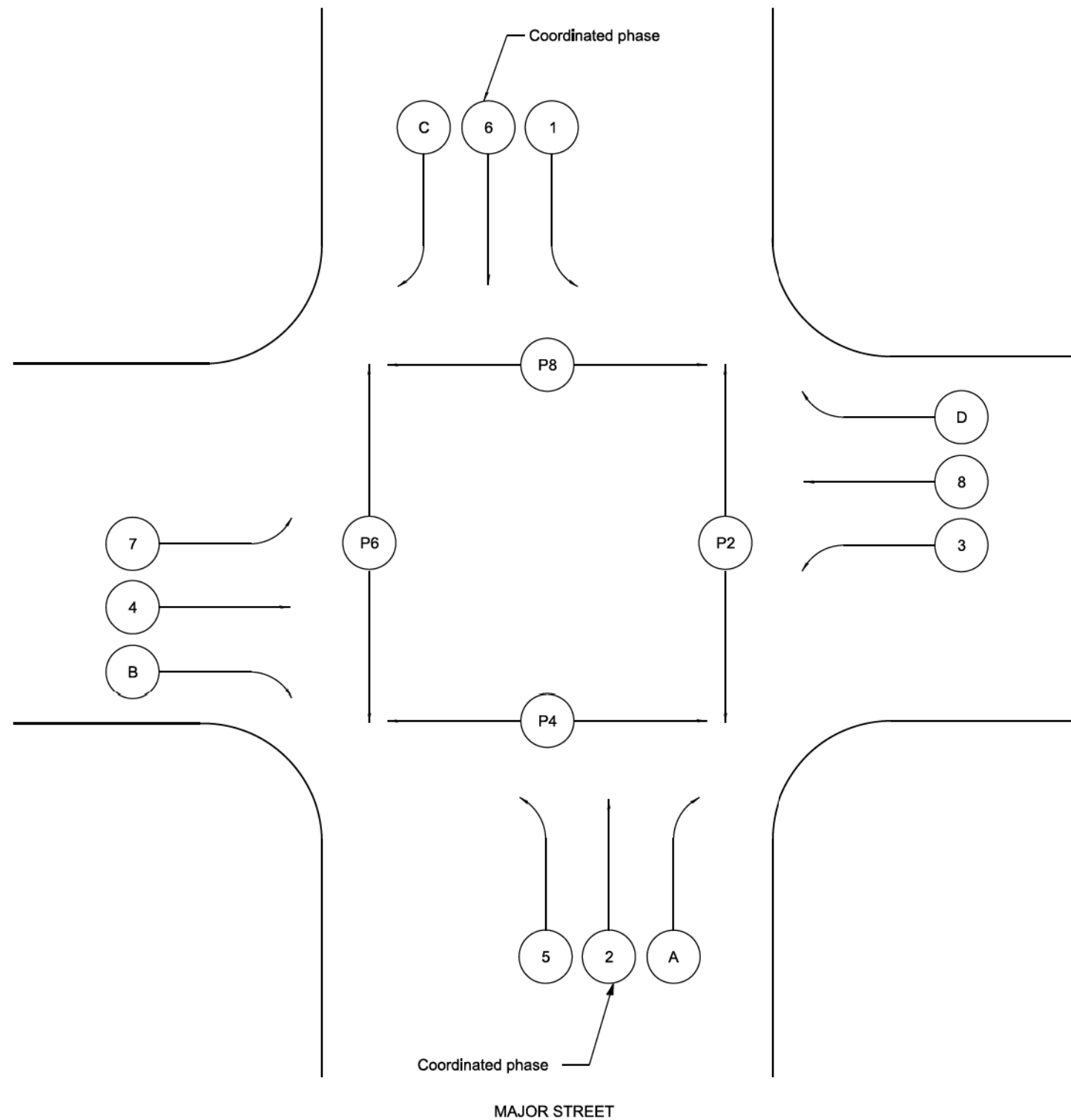
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ENGINEER OF OPERATIONS

APPROVED January 1, 2021

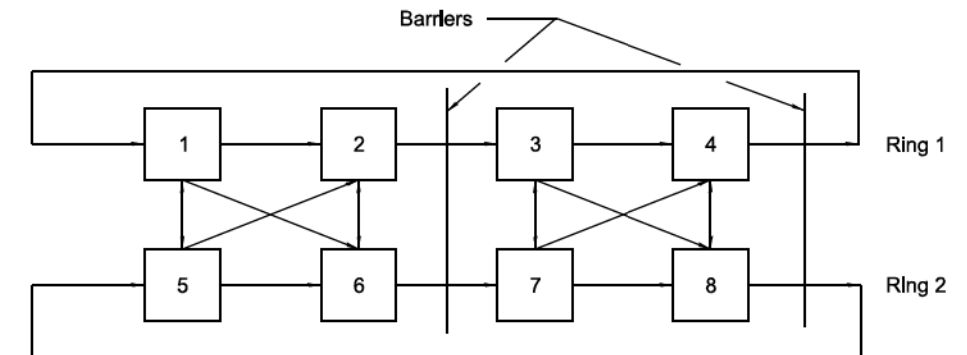
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS	DOUBLE HANDHOLES
1-1-21	Corrected dimension in Portland Cement Concrete Plan view.	
1-1-09	Switched units to English (metric).	
		STANDARD 814006-03



STANDARD PHASE DESIGNATION DIAGRAM (NEMA)



**NEMA EIGHT PHASE DUAL RING
ACTUATED CONFIGURATION**

LEGEND

- (X), [X] Vehicular phase no. x
- (PX) Pedestrian phase no. x
- (A), (B), (C), (D) Right turn overlaps where:
- (A) = (2) + (3)
- (B) = (4) + (5)
- (C) = (6) + (7)
- (D) = (8) + (1)

NEMA

National Electrical Manufacturers
Association

Illinois Department of Transportation

APPROVED January 1, 2009 2009

ENGINEER OF OPERATIONS

APPROVED January 1, 2009 2009

ENGINEER OF DESIGN AND ENVIRONMENT

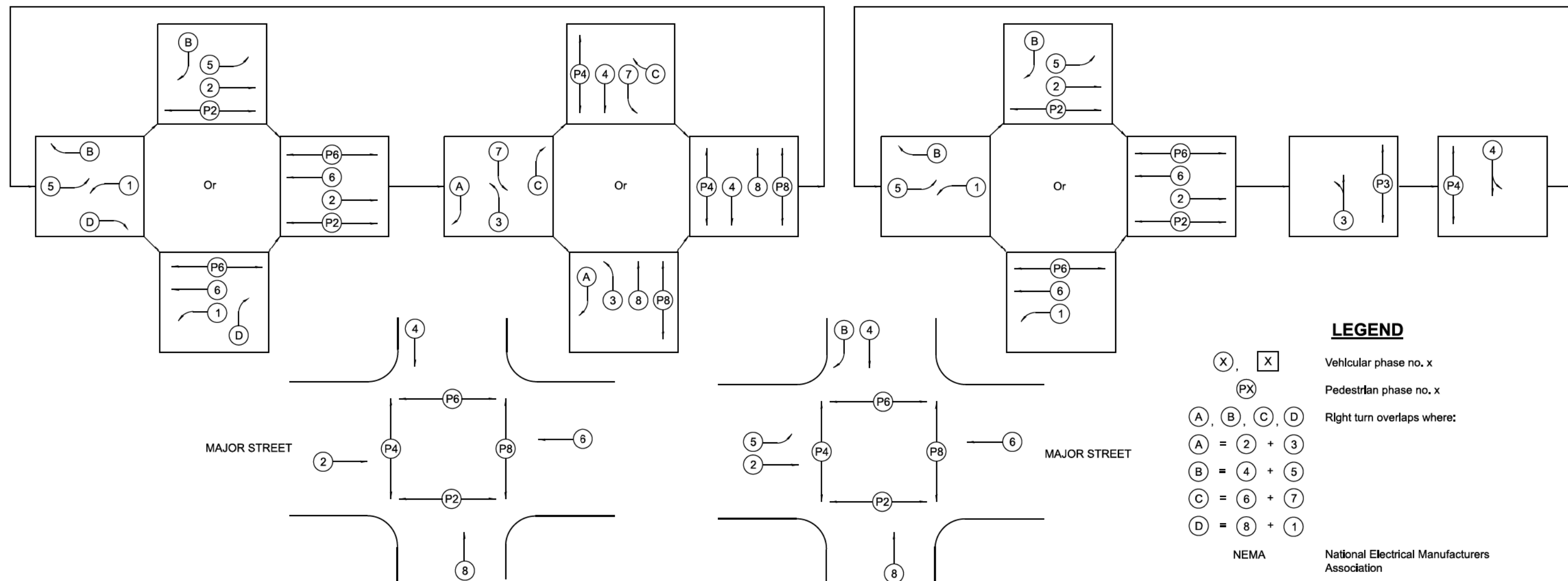
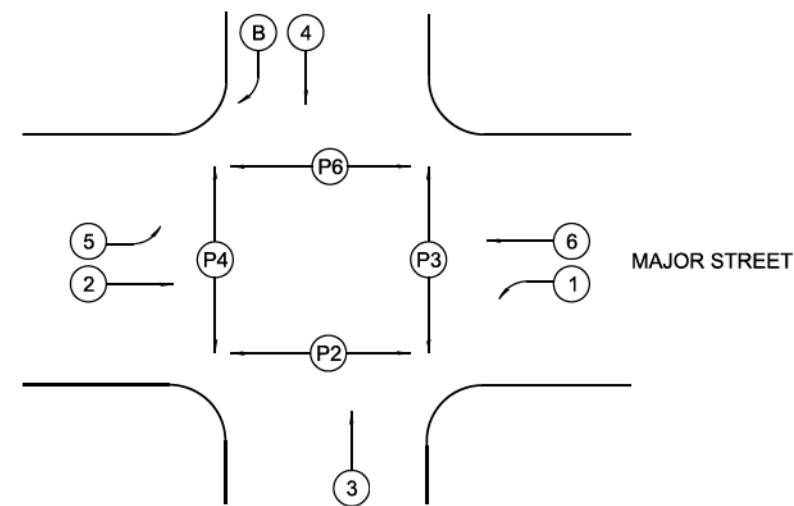
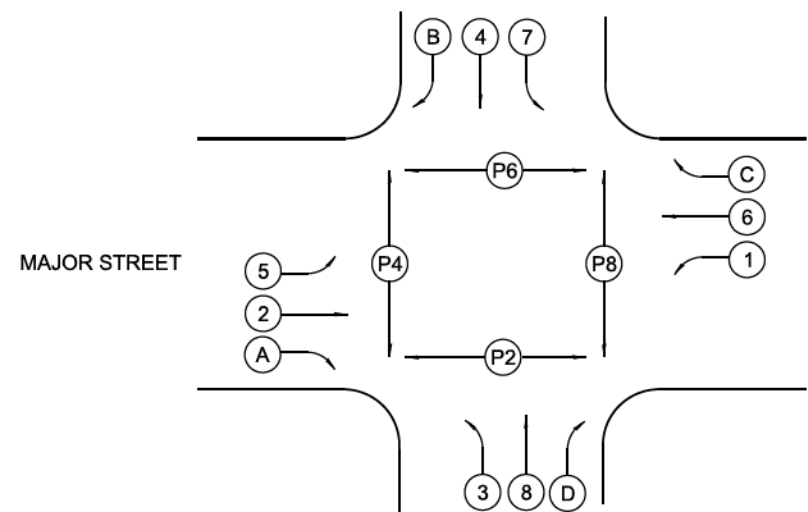
ISSUED 1-1-97

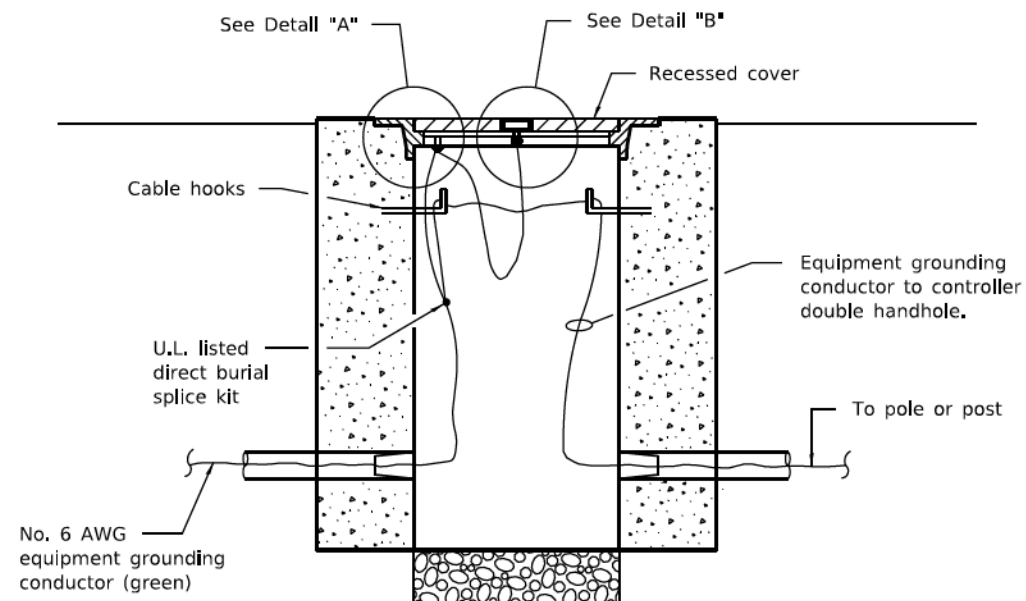
DATE	REVISIONS
1-1-09	Omitted note regarding units of length
1-1-97	Renum. Standard 2393-2.

**STANDARD PHASE
DESIGNATION DIAGRAMS
AND PHASE SEQUENCES**

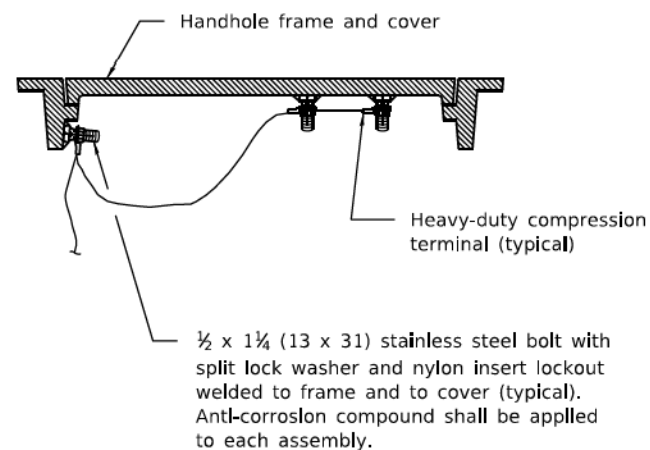
(Sheet 1 of 2)

STANDARD 857001-01





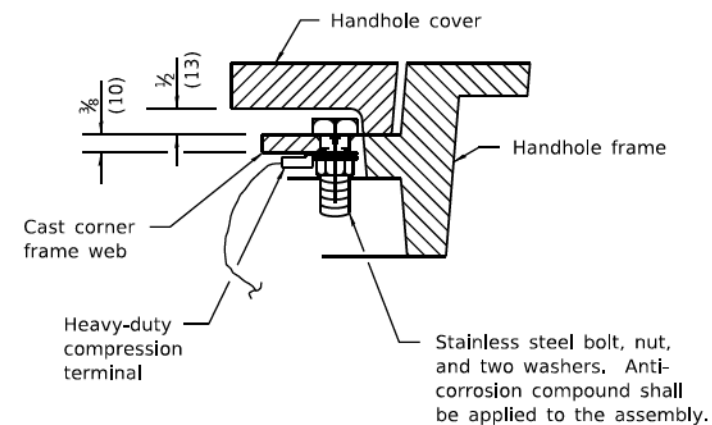
BONDING A HANDHOLE COVER & FRAME



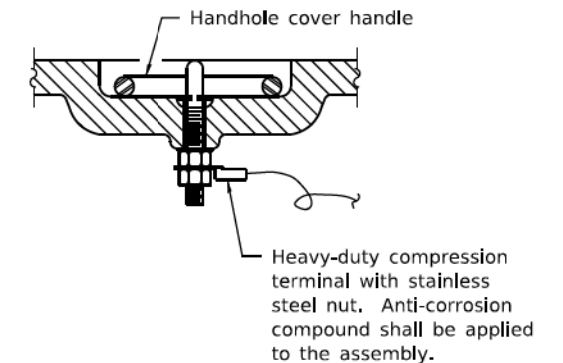
BONDING AN EXISTING HANDHOLE COVER & FRAME



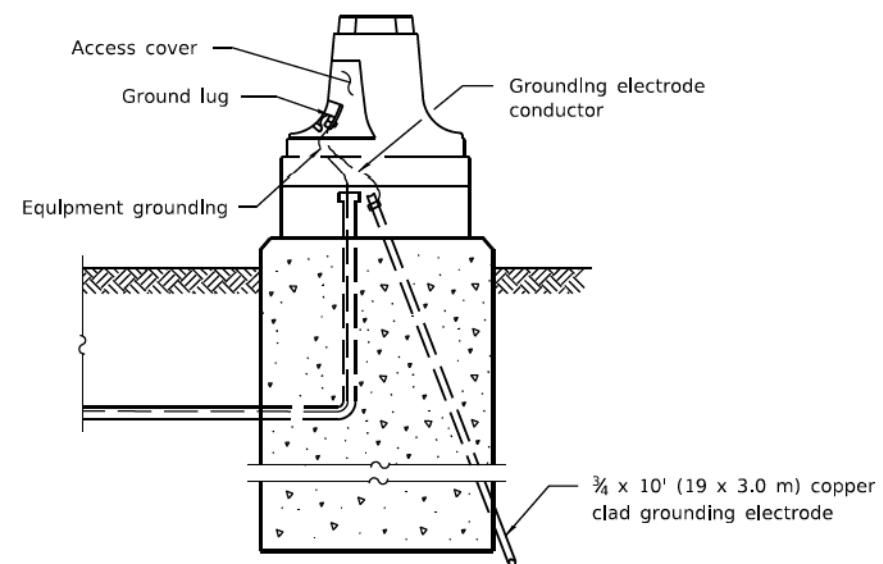
HEAVY-DUTY COMPRESSION TERMINAL



DETAIL "A"



DETAIL "B"



GROUNDING A MAST ARM POLE/POST



3/4 (19) Clamp Size

HEAVY-DUTY GROUND ROD CLAMP

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

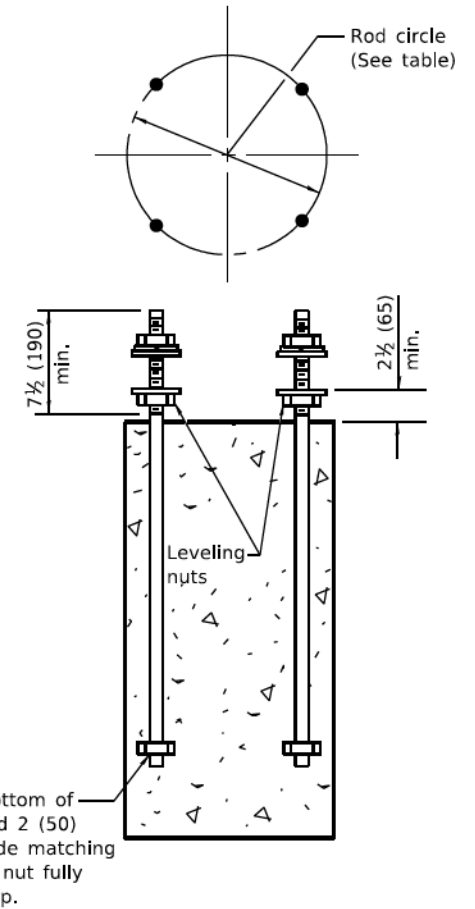
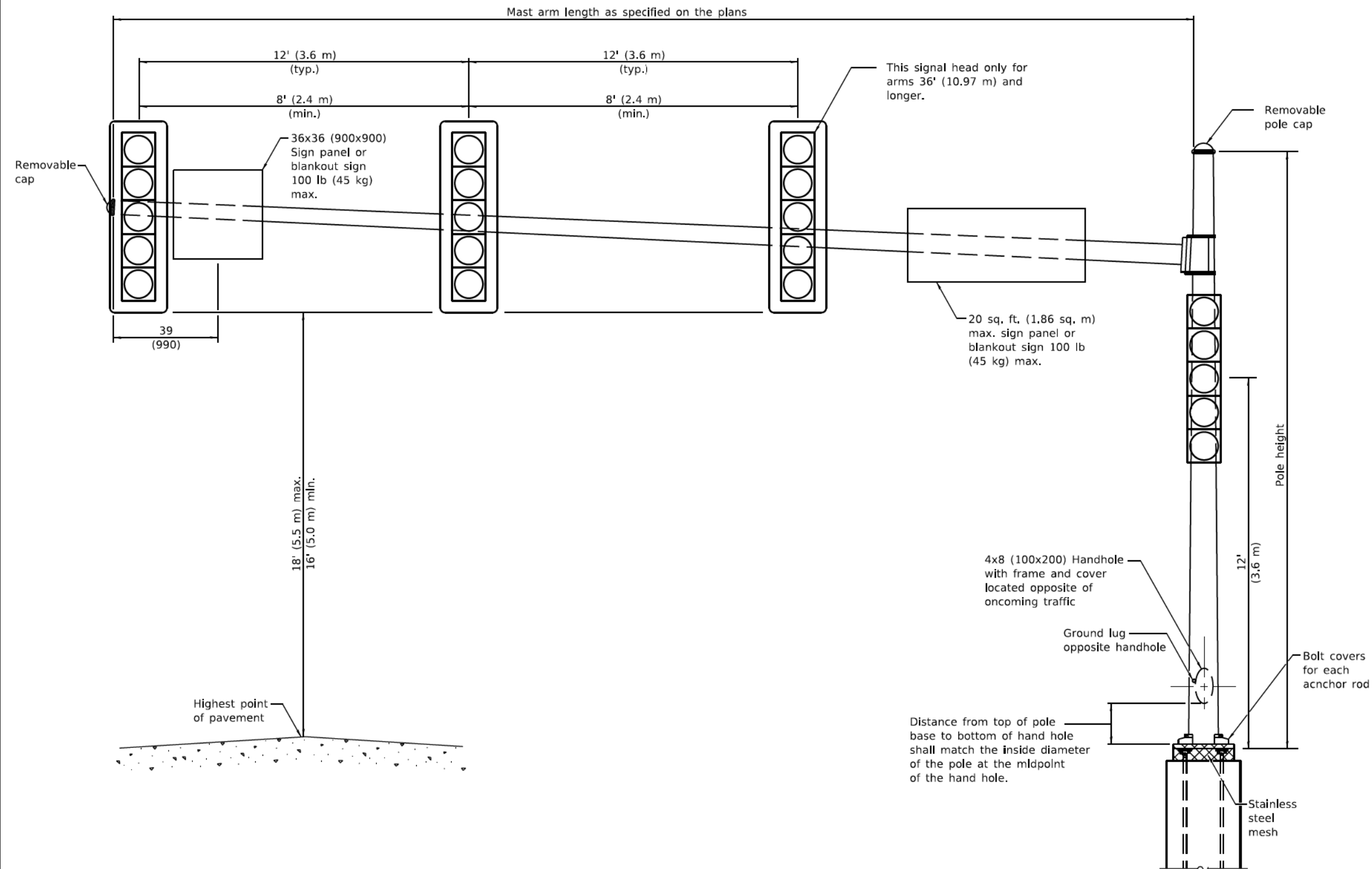
Illinois Department of Transportation	
PASSED	January 1, 2009
ENGINEER OF OPERATIONS	
APPROVED	January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT	

ISSUED 4-1-06

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	Revised terminology.

TRAFFIC SIGNAL GROUNDING & BONDING

STANDARD 873001-02



ANCHOR ROD DETAIL

GENERAL NOTES

Signal heads, sign panels, and other attachments are shown for minimum design loading purposes only. Each signal head shall weigh 80 lb (36 kg) and have a projected area of 14.7 sq. ft. (1.37 sq. m).

See Standard 720016 for location of sign panel or blankout sign closest to pole.

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

MAST ARM LENGTH	ANCHOR ROD CIRCLE	ANCHOR ROD SIZE
16' thru 40' (4.87 m thru 12.20 m)	18 (450)	1 3/4 x 7" (44 x 2.10 m)
42' thru 55' (12.80 m thru 16.80 m)	21 (535)	1 3/4 x 7" (44 x 2.10 m)

DATE	REVISIONS
1-1-20	Revised mast arm length.
1-1-18	Revised table for LRFD reqs.
	Revised GEN. NOTES for sign
	location. Replaced rod hooks
	with nuts.

**STEEL MAST ARM
ASSEMBLY AND POLE
16' THROUGH 55'**

STANDARD 877001-08

Illinois Department of Transportation

PASSED January 1, 2020

Amy Ellis

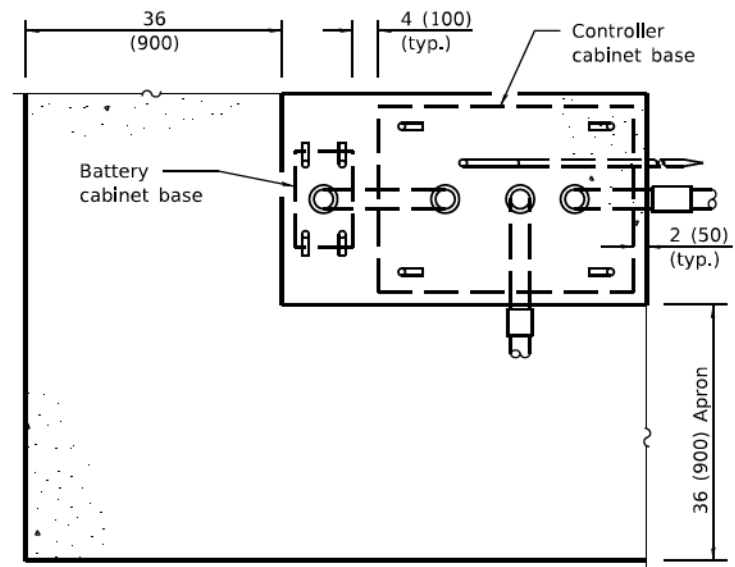
ENGINEER OF OPERATIONS

APPROVED January 1, 2020

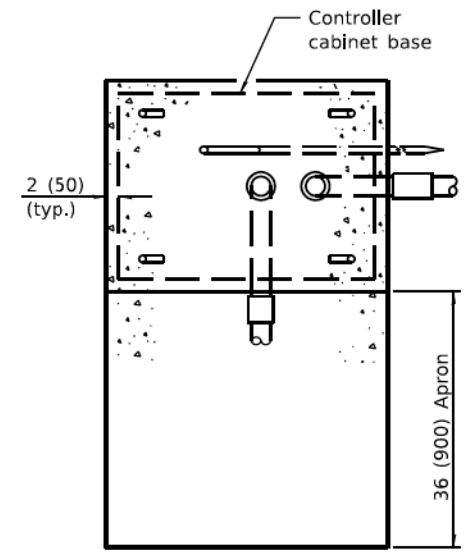
Steve Egan

ENGINEER OF DESIGN AND ENVIRONMENT

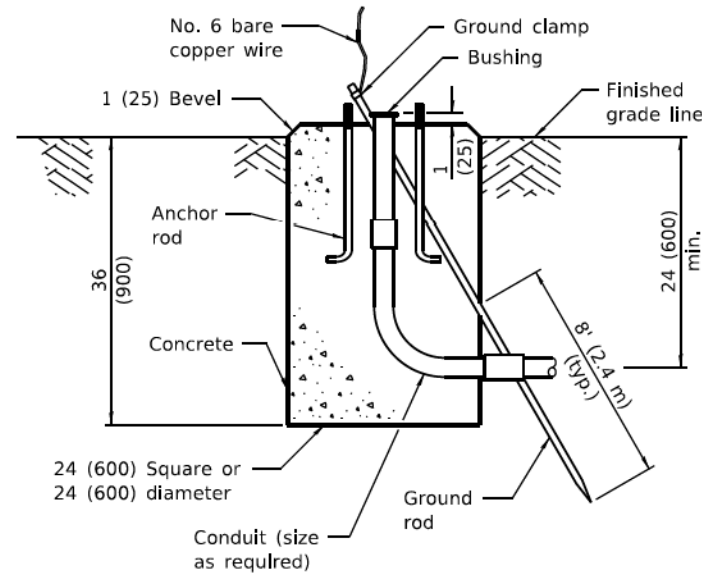
ISSUED 1-1-02



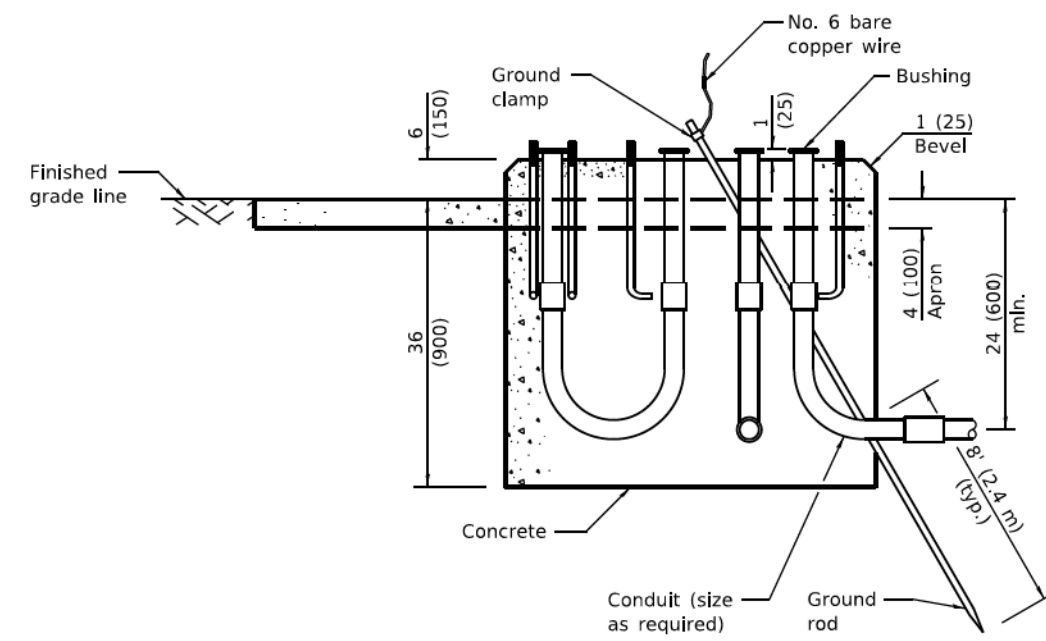
TOP VIEW



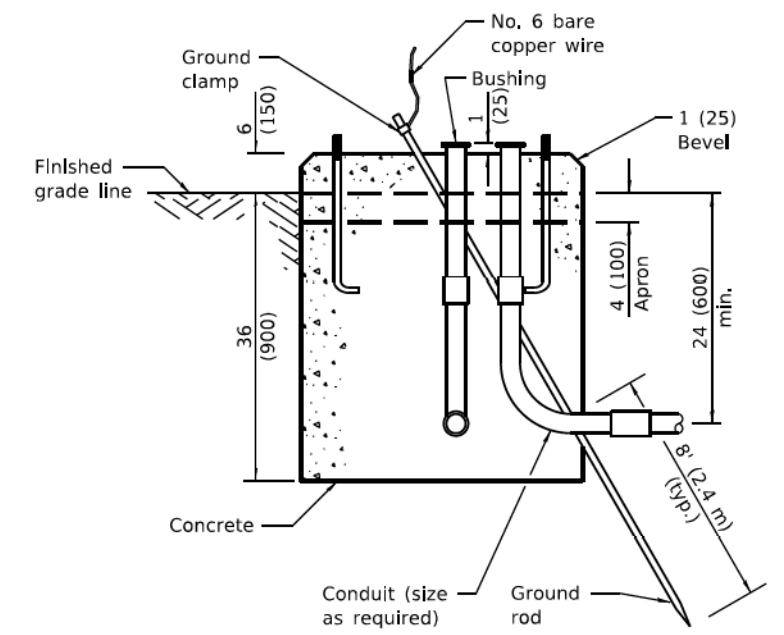
TOP VIEW



TYPE A



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



**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET**

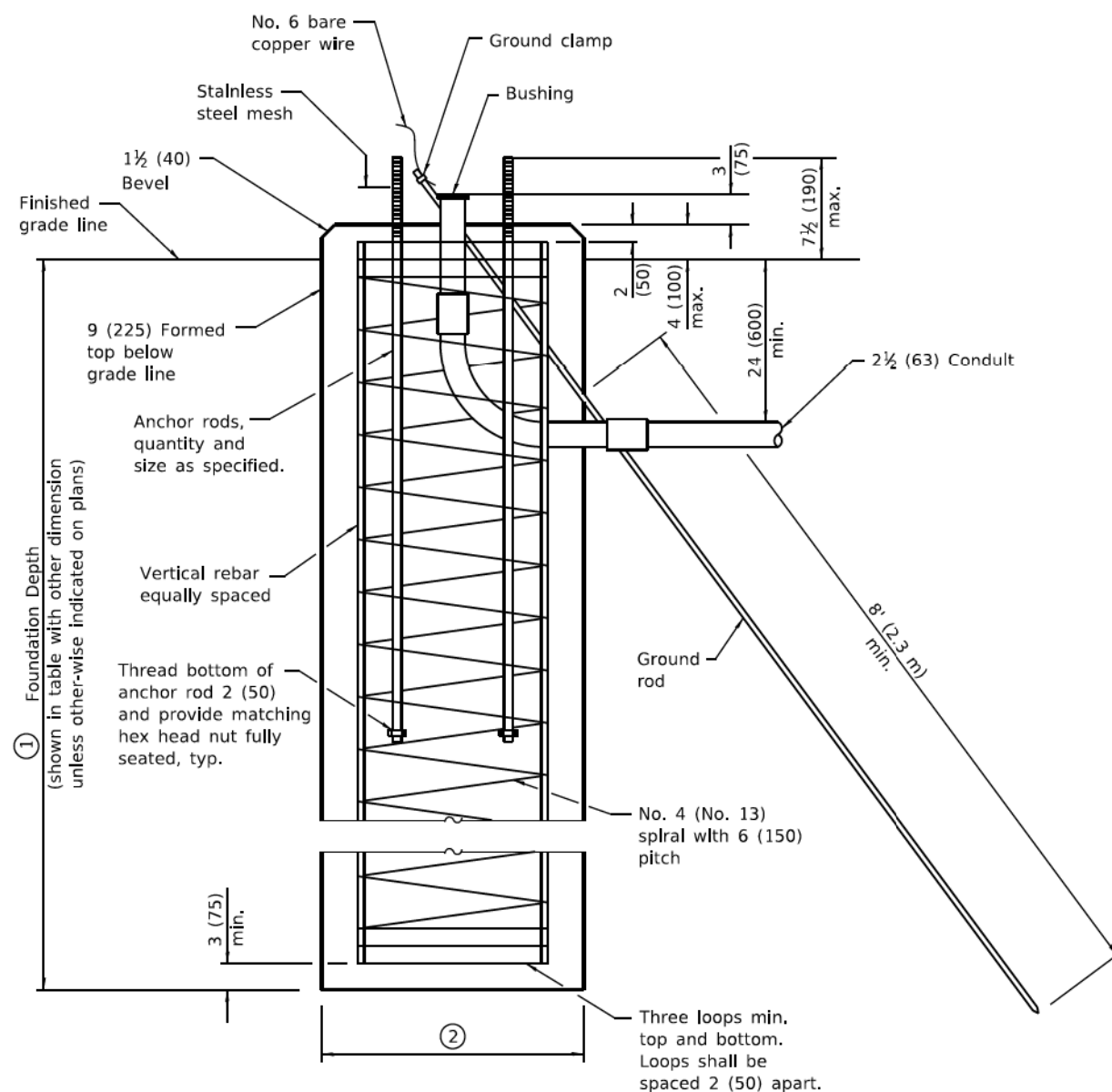
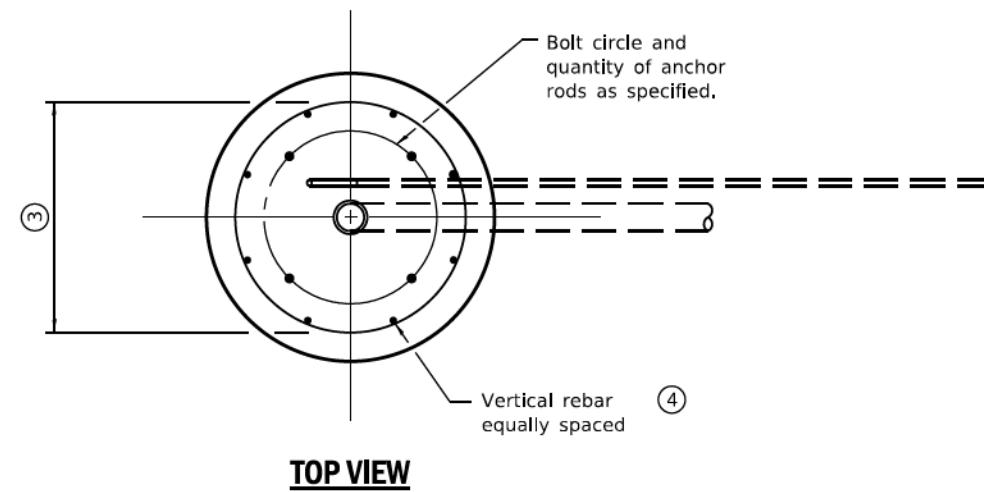
All dimensions are in inches (millimeters)
unless otherwise shown.

DATE	REVISIONS
1-1-21	Revised anchor rod end in Type E detail.
1-1-15	Revised TYPE E detail.

CONCRETE FOUNDATION DETAILS

(Sheet 1 of 2)

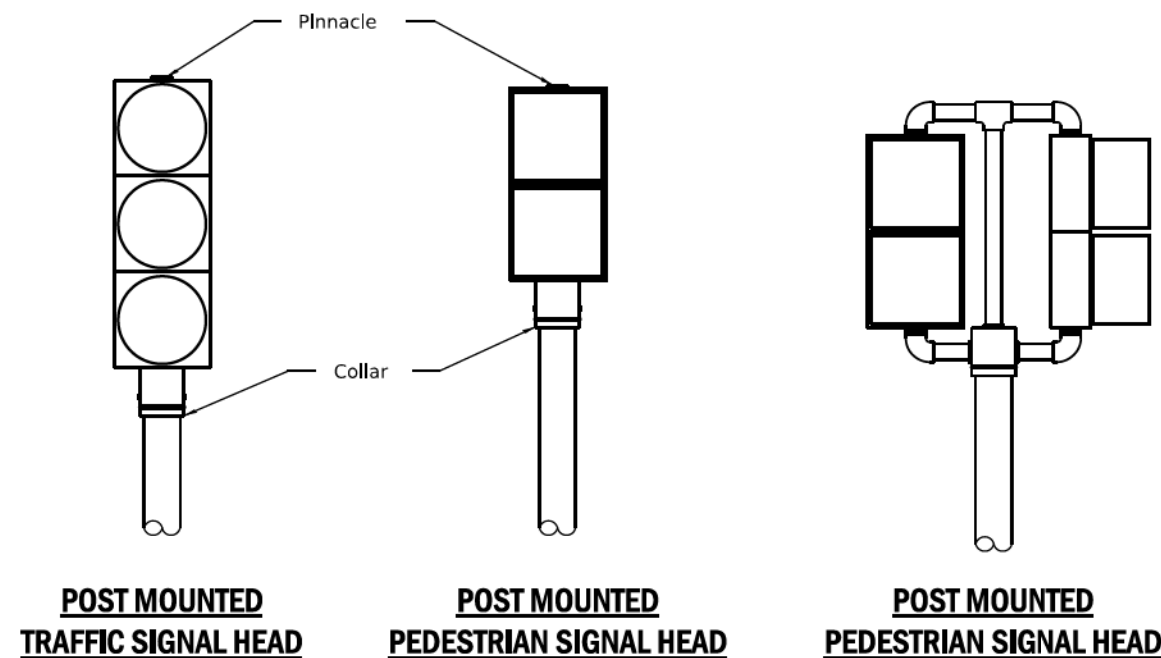
STANDARD 878001-11



Mast Arm Length	① Foundation Depth *	② Foundation Diameter	③ Spiral Diameter	④ Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30 (750)	24 (600)	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 (750)	24 (600)	8	6 (19)
	11'-0" (3.4 m)	36 (900)	30 (750)	12	7 (22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36 (900)	30 (750)	12	7 (22)
	15'-0" (4.6 m)	36 (900)	30 (750)	12	7 (22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	21'-0" (6.4 m)	42 (1060)	36 (900)	16	8 (25)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	25'-0" (7.6 m)	42 (1060)	36 (900)	16	8 (25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)					

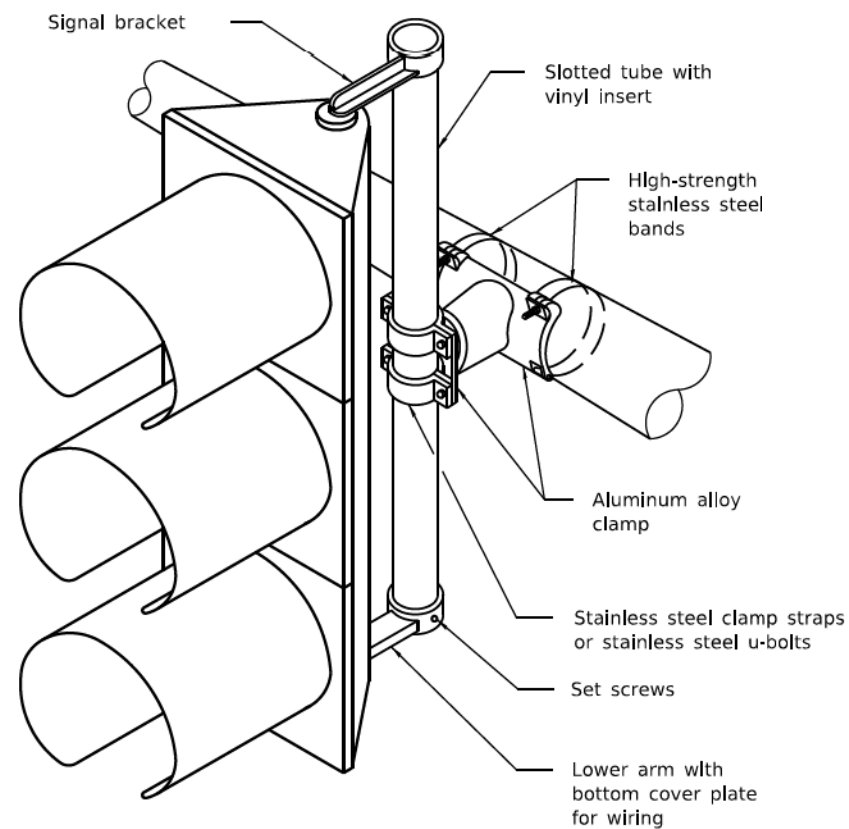
* For standard and combination mast arm assemblies. Foundation depths for standard dual mast arms with the longest arm length upto and including 55' (16.8 m) shall be increased by 1' (0.3 m) of that shown in the table, based on the longer of the two arms.

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 (Q_u) > 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.

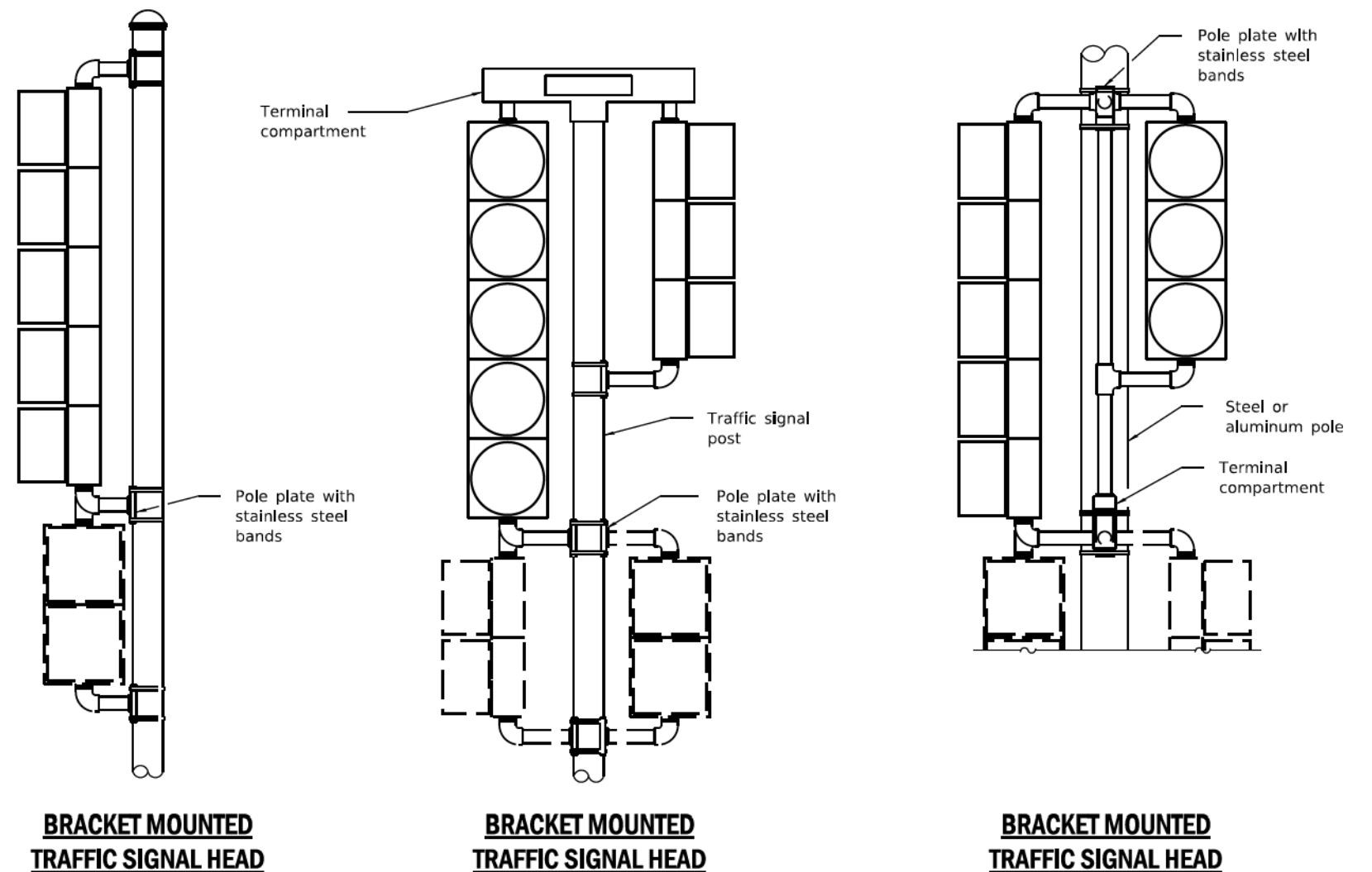


ONE WAY

TWO WAY



STEEL MAST ARM MOUNTING



ONE WAY

TWO WAY

Illinois Department of Transportation

PASSED January 1, 2009

ENGINEER OF OPERATIONS

APPROVED January 1, 2009

ENGINEER OF DESIGN AND ENVIRONMENT

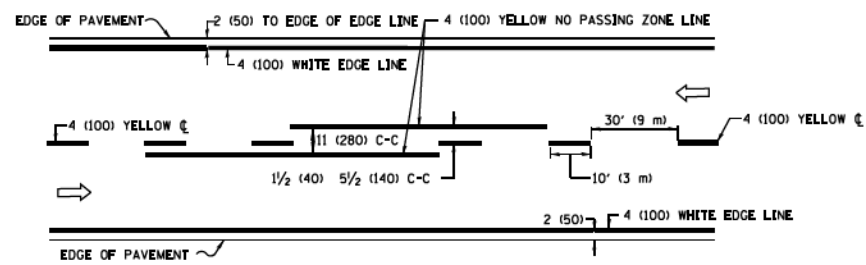
ISSUED 1-1-02

DATE	REVISIONS
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1-1-02	Renum. Standard 840006.

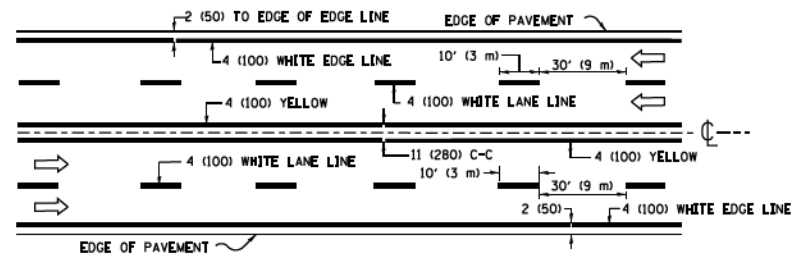
TRAFFIC SIGNAL MOUNTING DETAILS

STANDARD 880006-01

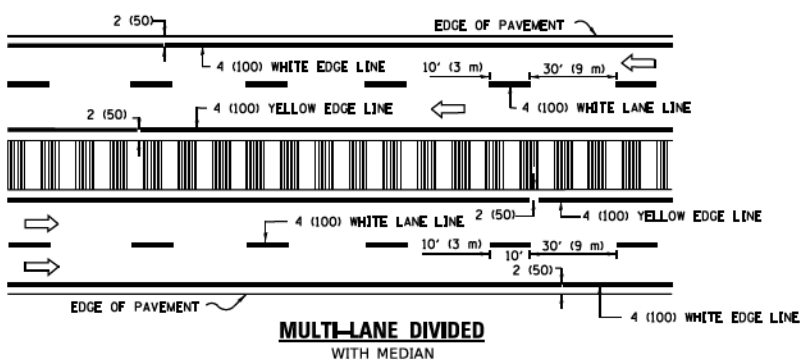
Copyright © 2017, by BAXTER & WOODMAN, INC.
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
PROJECT NO. 22-00353-00-TL
SHEET NO. 67
DATE: 03/19/2019
BY: JUCIUS
CHECKED: JUCIUS
DESIGNED: EVERS
REVISED: JUCIUS
PLOT SCALE: 1/8" = 1'-0"
PLOT DATE: 03/19/2019



2-LANE ROADWAY

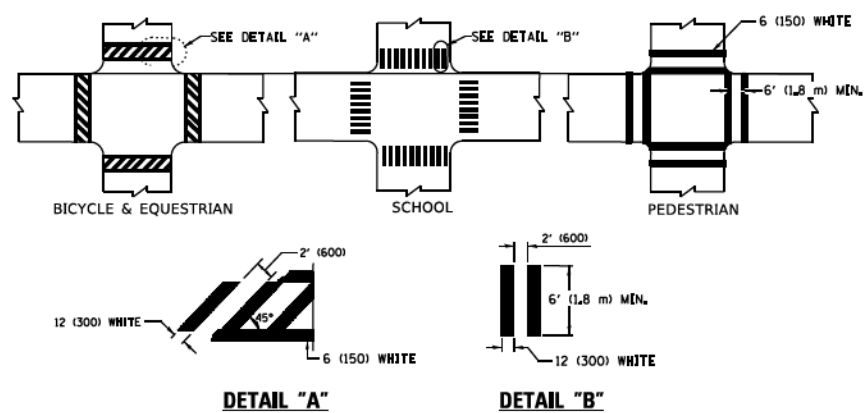


MULTI-LANE UNDIVIDED



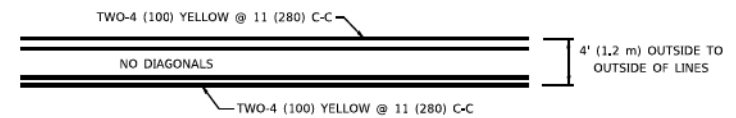
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

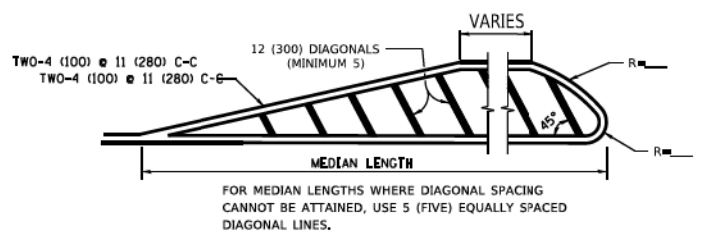


TYPICAL CROSSWALK MARKING

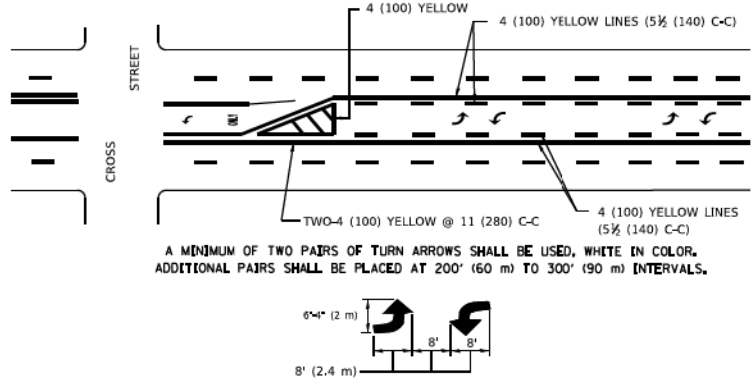
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



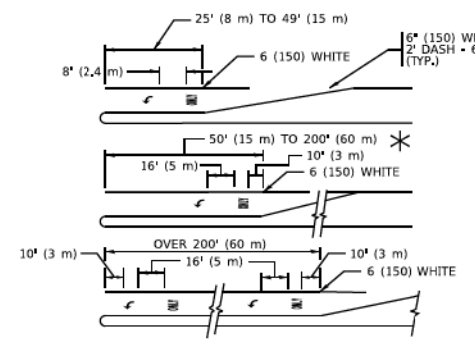
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



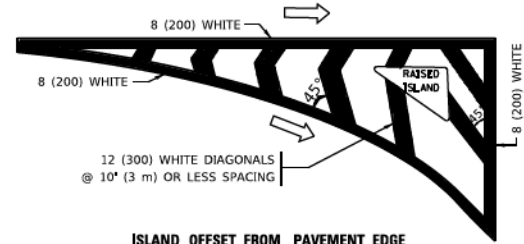
MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING



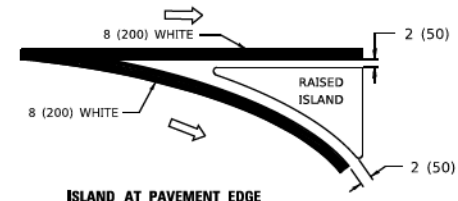
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)
TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

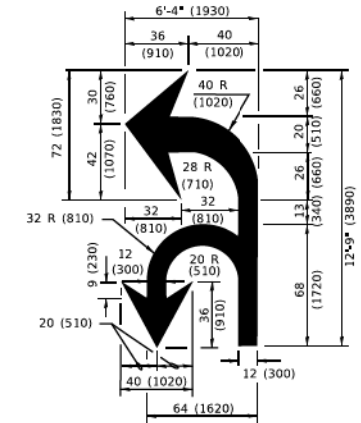
TYPICAL TURN LANE MARKING



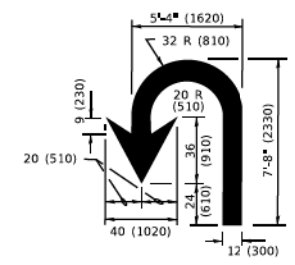
ISLAND OFFSET FROM PAVEMENT EDGE



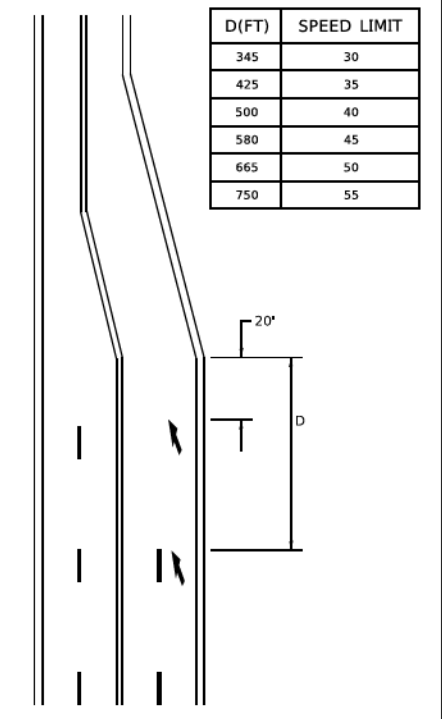
ISLAND AT PAVEMENT EDGE
TYPICAL ISLAND MARKING



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.

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" 15 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X" 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.

USER NAME	footemj	DESIGNED -	EVERS	REVISED -	C. JUCIUS 09-09-09
DRAWN -		REVISOR -	C. JUCIUS 07-01-13	REVISOR -	C. JUCIUS 12-21-15
PLOT SCALE	= 50,0000 ' / in.	CHECKED -		REVISOR -	C. JUCIUS 04-12-16
PLOT DATE	= 3/4/2019	DATE	= 03-19-90	REVISED -	C. JUCIUS 04-12-16

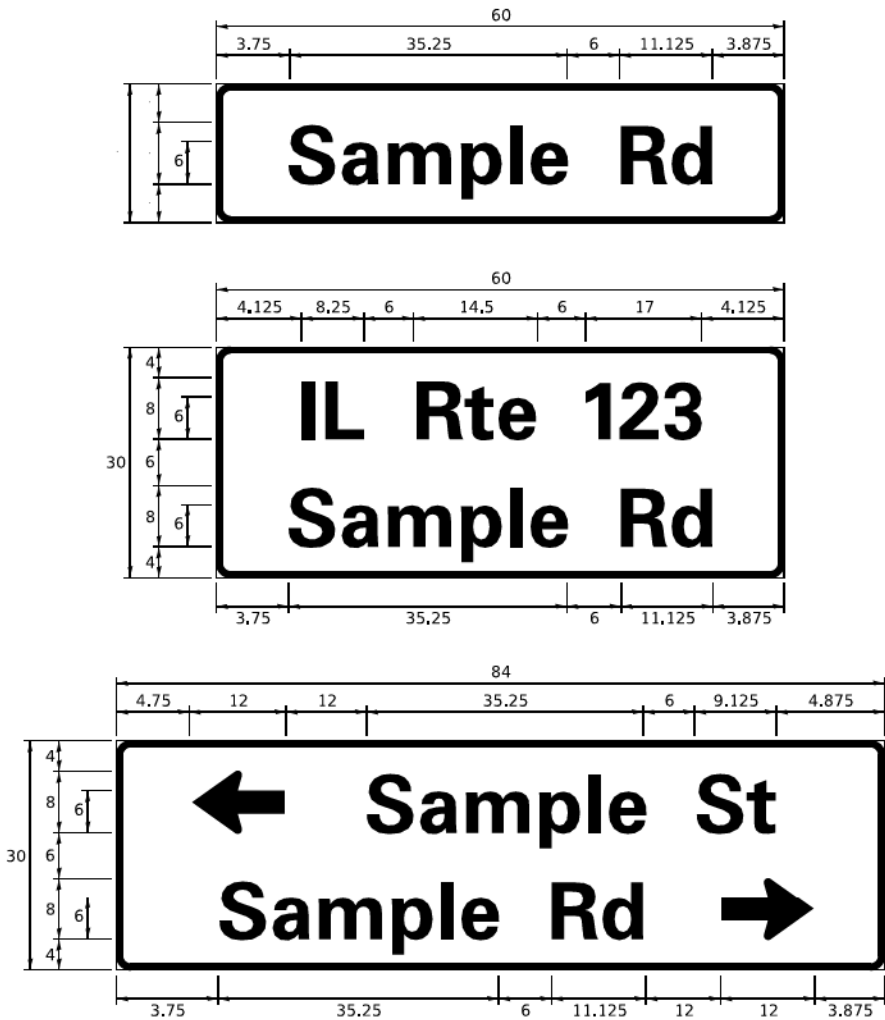
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET 1	OF 2 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	53
	TC-13			CONTRACT NO.
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15,000	18,250
BOULEVARD	Blvd	17,125	20,000
CIRCLE	Cir	11,125	13,000
COURT	Ct	8,250	9,625
DRIVE	Dr	8,625	10,125
HIGHWAY	Hwy	18,375	22,000
ILLINOIS	IL	7,000	8,250
LANE	Ln	9,125	10,750
PARKWAY	Pkwy	23,375	27,375
PLACE	Pl	7,125	7,750
ROAD	Rd	9,625	11,125
ROUTE	Rte	12,625	14,500
STREET	St	8,000	9,125
TERRACE	Ter	12,625	14,625
TRAIL	Tr	7,750	9,125
UNITED STATES	US	10,375	12,250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0", ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH, IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED, IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT, GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA

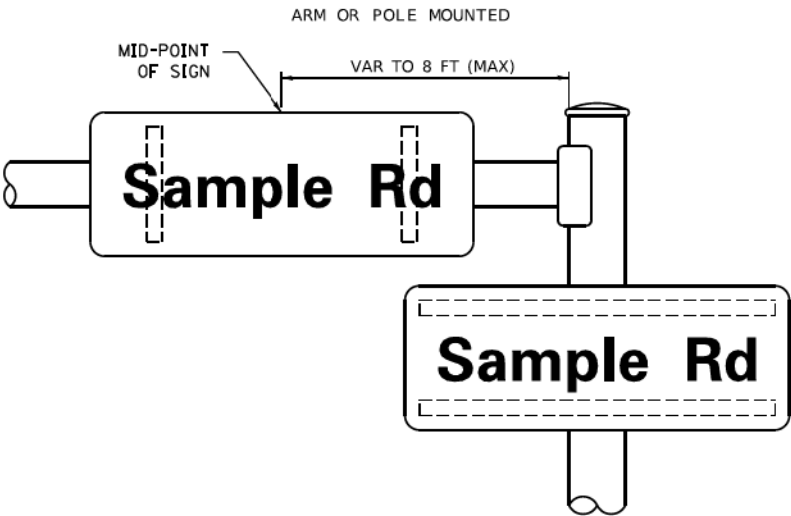
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

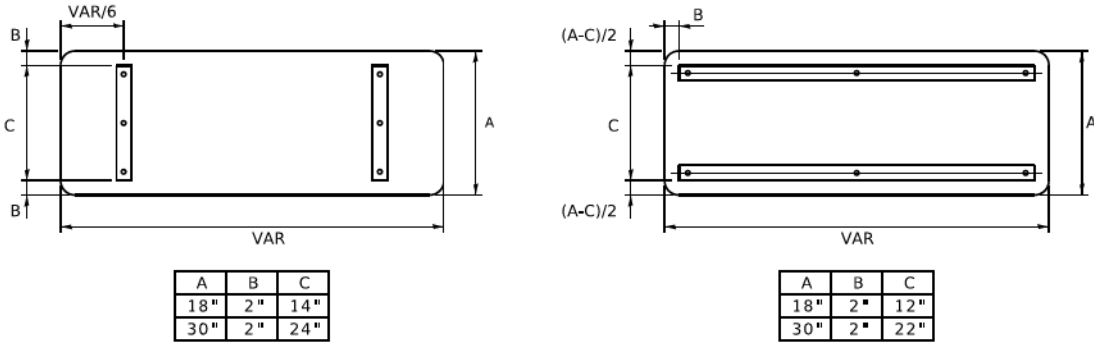
SIGN CHANNEL
SIGN SCREWS
PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

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BAXTER & WOODMAN
Consulting Engineers

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PLOT DATE = 3/4/2019	CHECKED - IP	REVISED -
	DATE - 10/01/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	51
TS-02		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

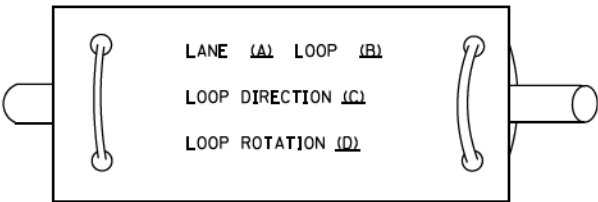
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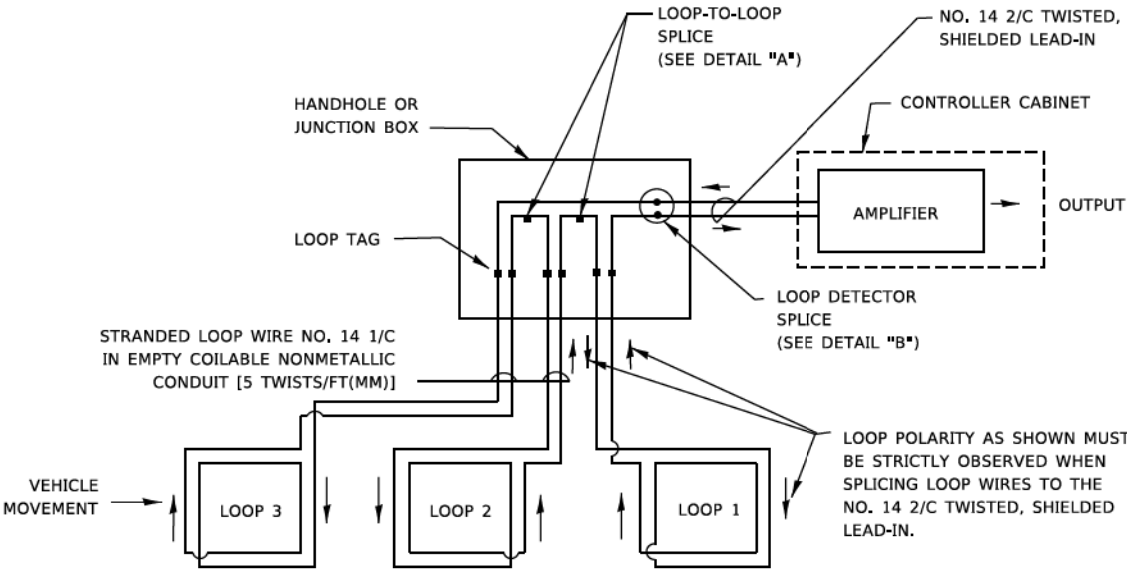
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

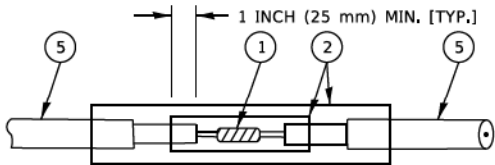


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

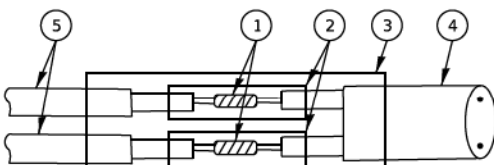


DETECTOR LOOP WIRING SCHEMATIC

- 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.

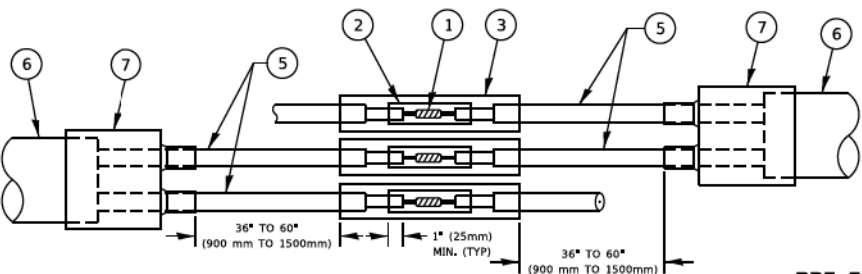


DETAIL "A"
LOOP-TO-LOOP SPLICE

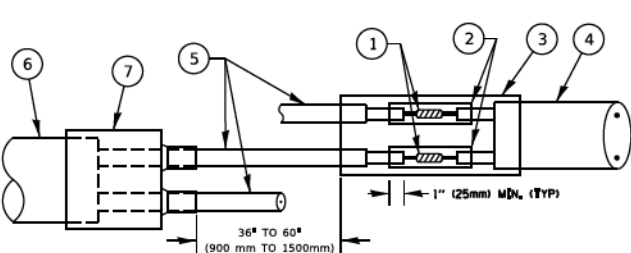


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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 LENGHT 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

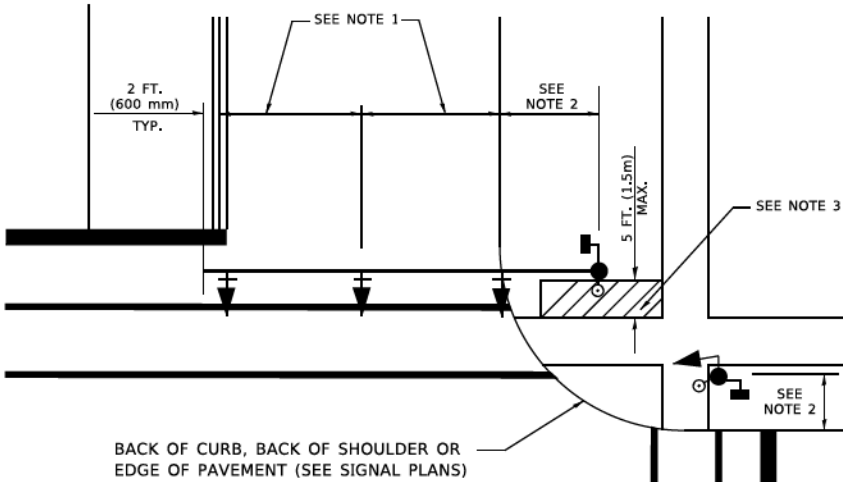
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PLOT DATE	= 3/4/2019	DATE	-	REVISED	-

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	56
TS-05		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

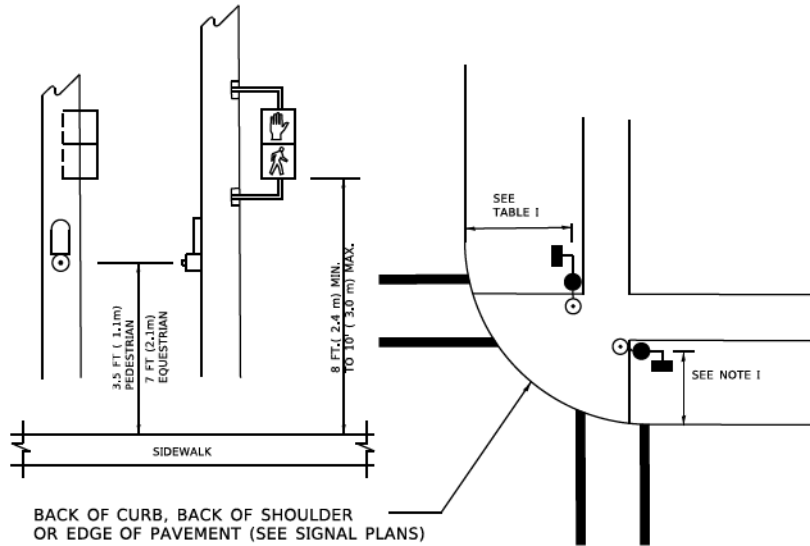
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

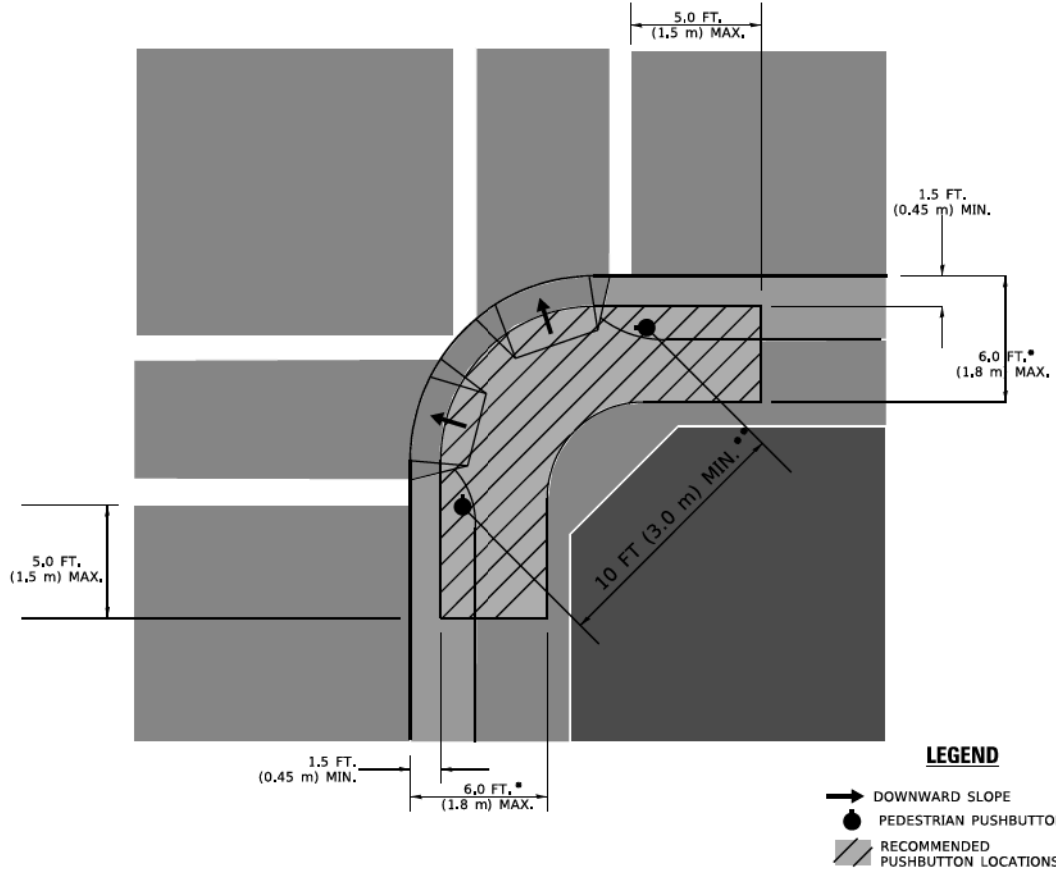
PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE 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.

BAXTER & WOODMAN
Consulting Engineers

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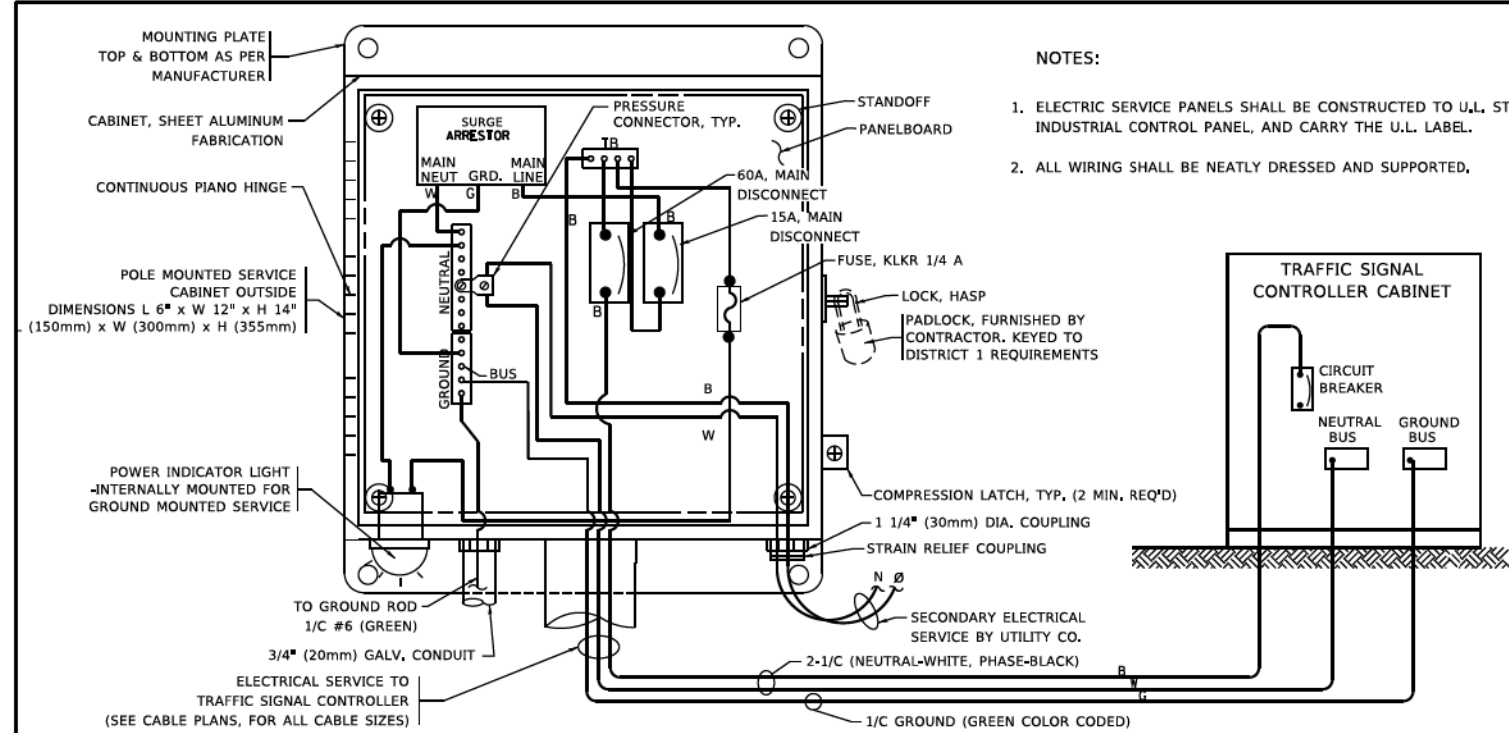
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

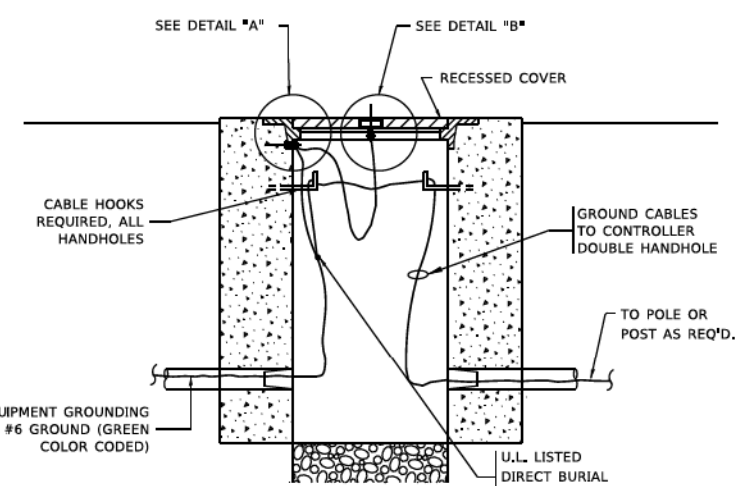
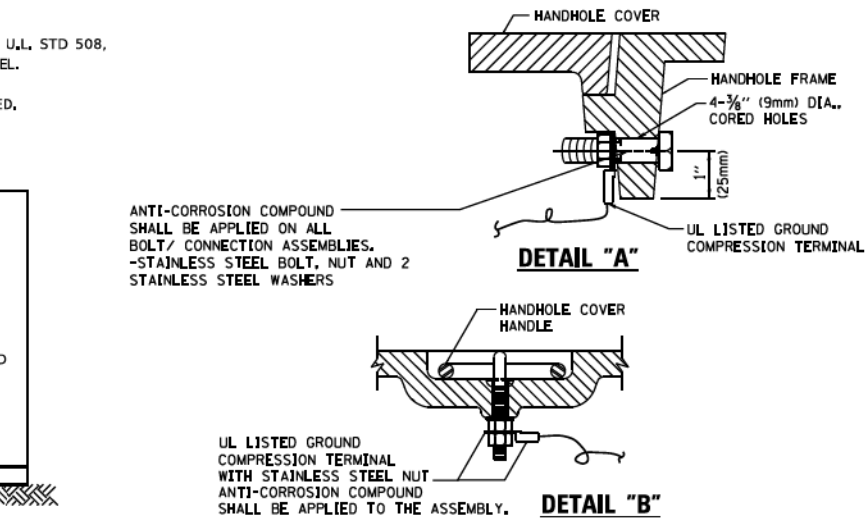
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

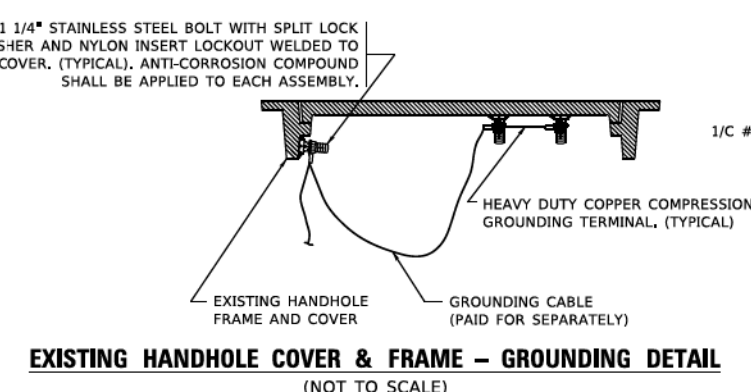
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	22-00353-00-TL	KANE	67	57
	TS-05			CONTRACT NO.
		ILLINOIS	FED. AID PROJECT	



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



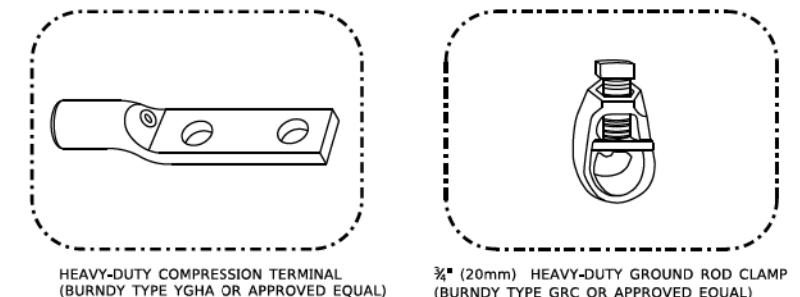
HANDHOLE COVER & FRAME - GROUNDING DETAIL
(NOT TO SCALE)



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

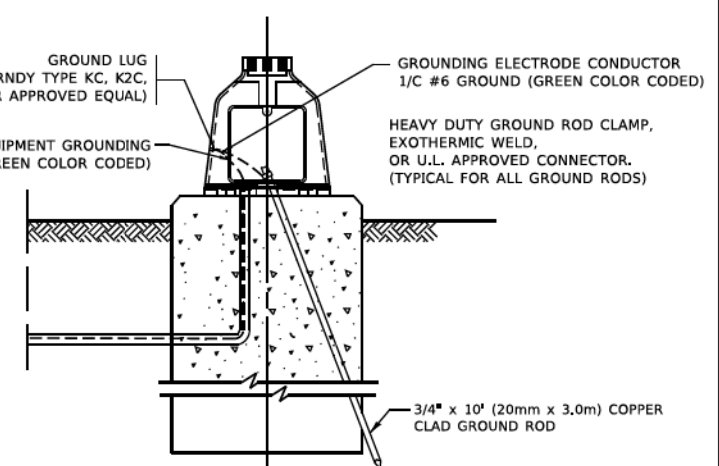
NOTES:
GROUNDING SYSTEM

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



NOTES:

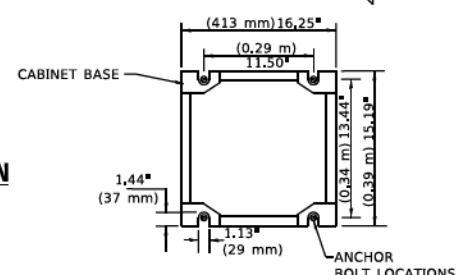
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
- 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
- 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
- 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



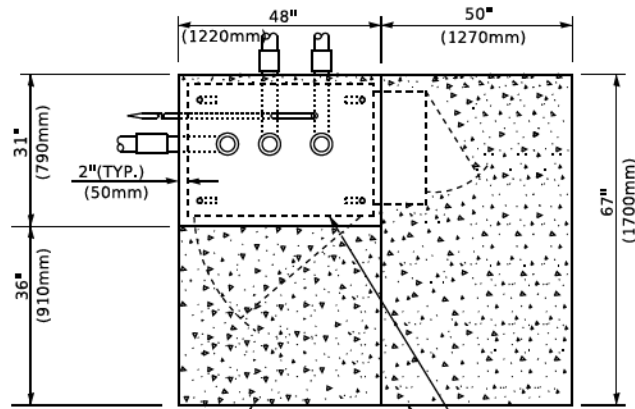
MAST ARM POLE /POST-GROUNDING DETAIL
(NOT TO SCALE)

SERVICE INSTALLATION
GROUND MOUNT
(NOT TO SCALE)

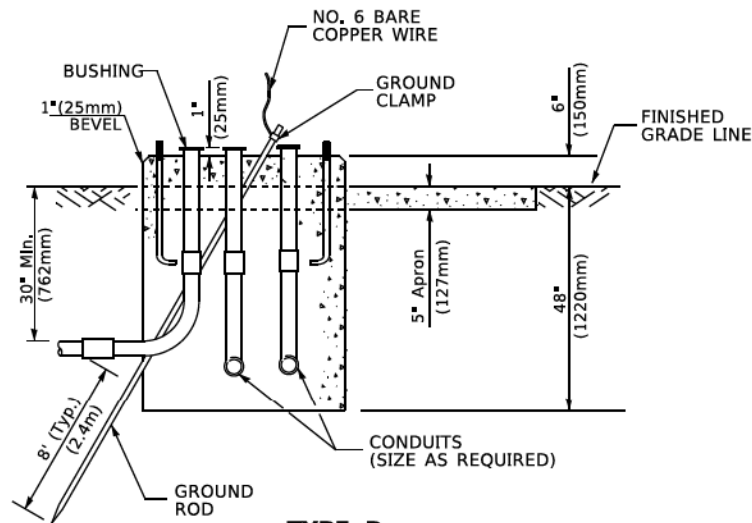
CABINET - BASE BOLT PATTERN
(NOT TO SCALE)



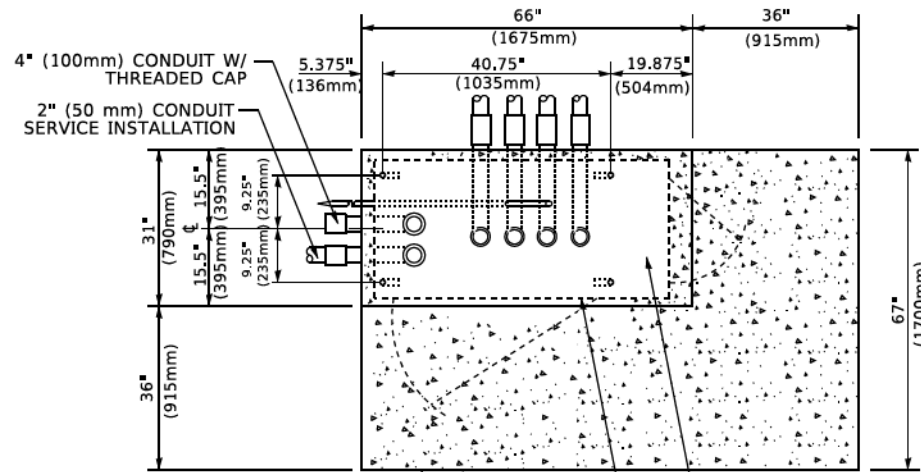
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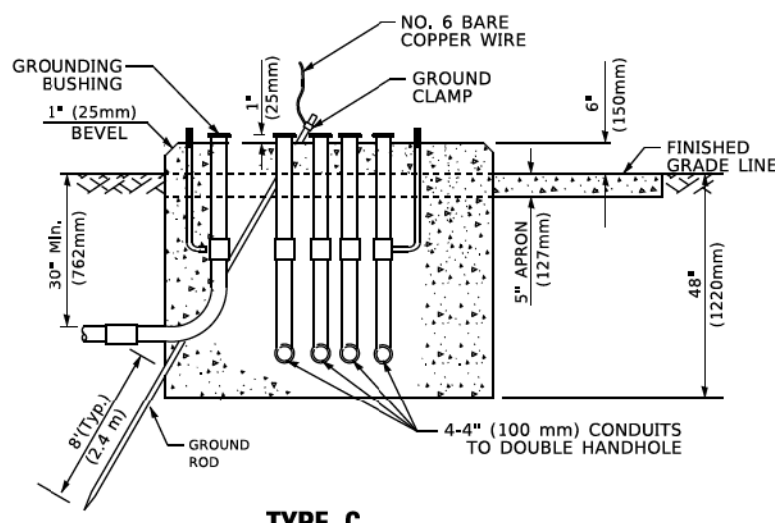
TOP VIEW



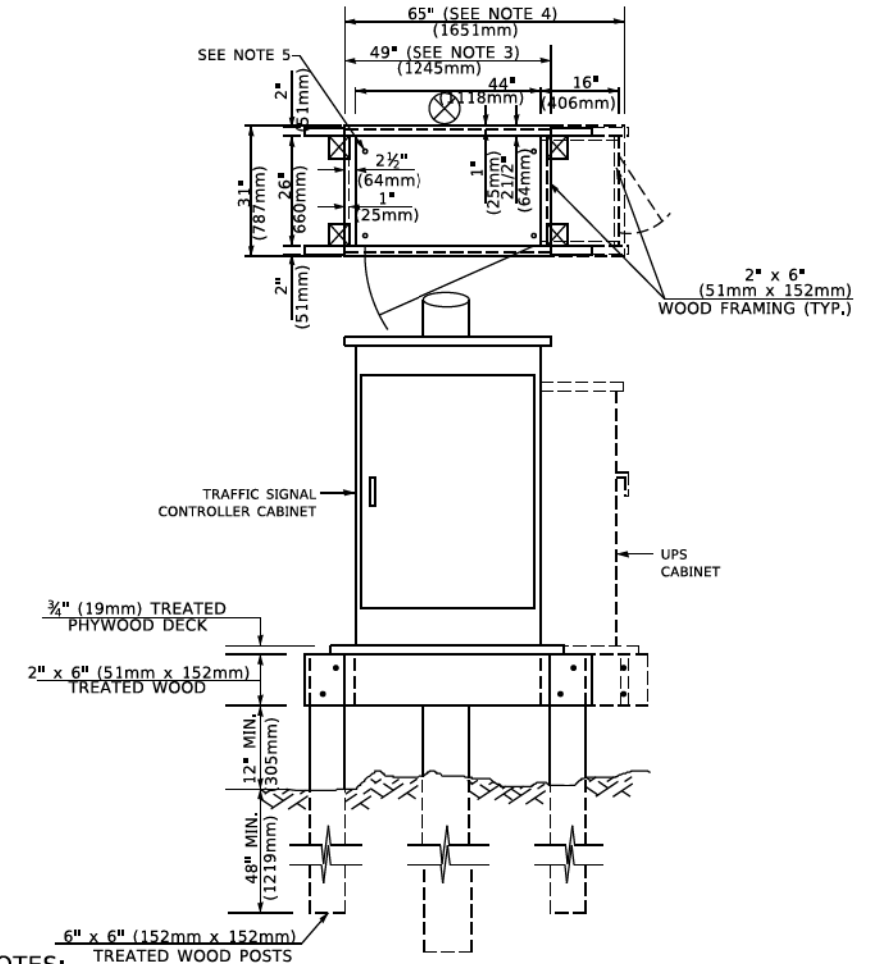
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	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 up to 56' (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 up to 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 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

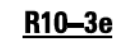
NOTES:

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.

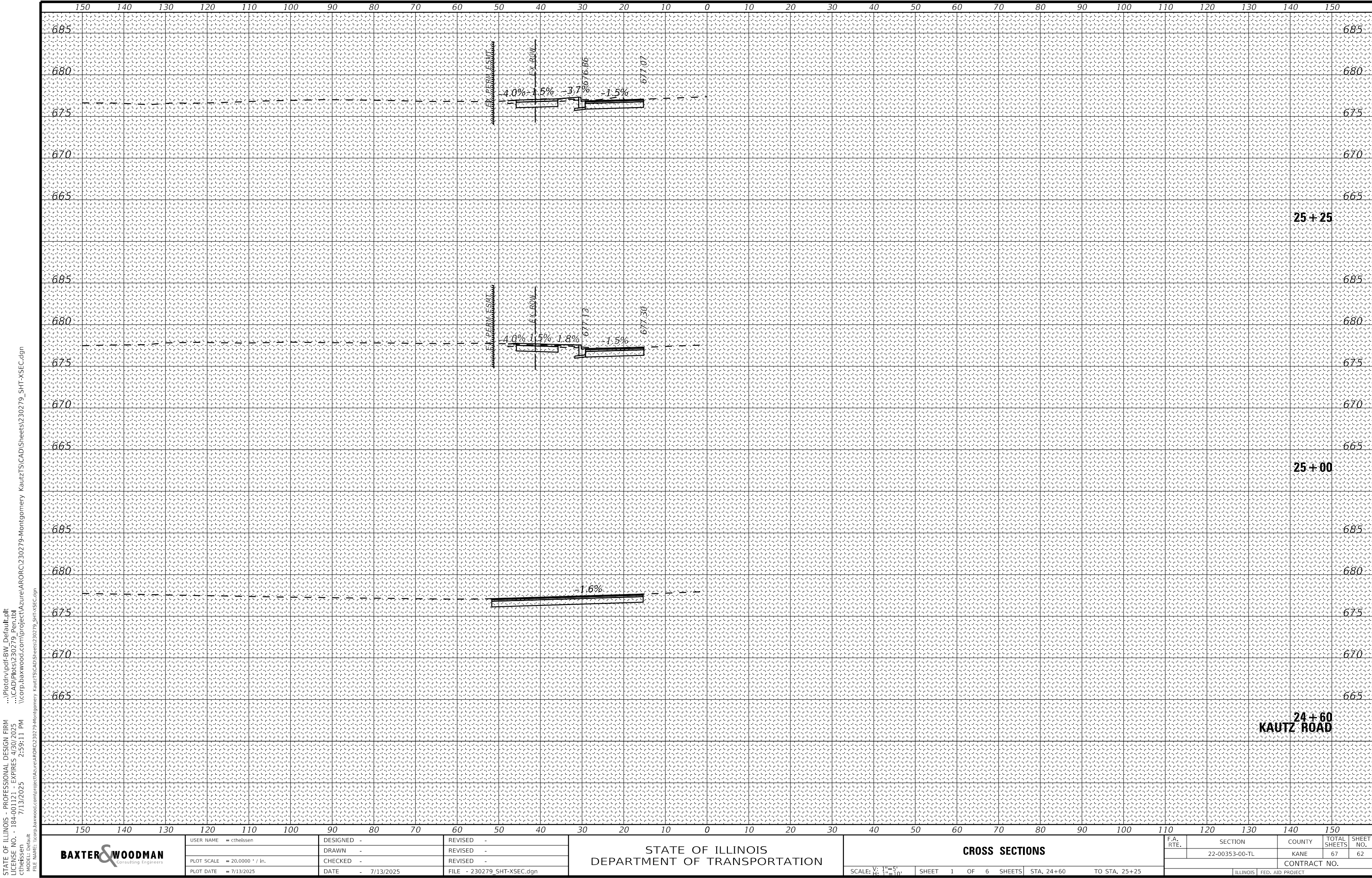
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



CONCRETE FOUNDATION,
TYPE A 12-INCH DIAMETER



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.



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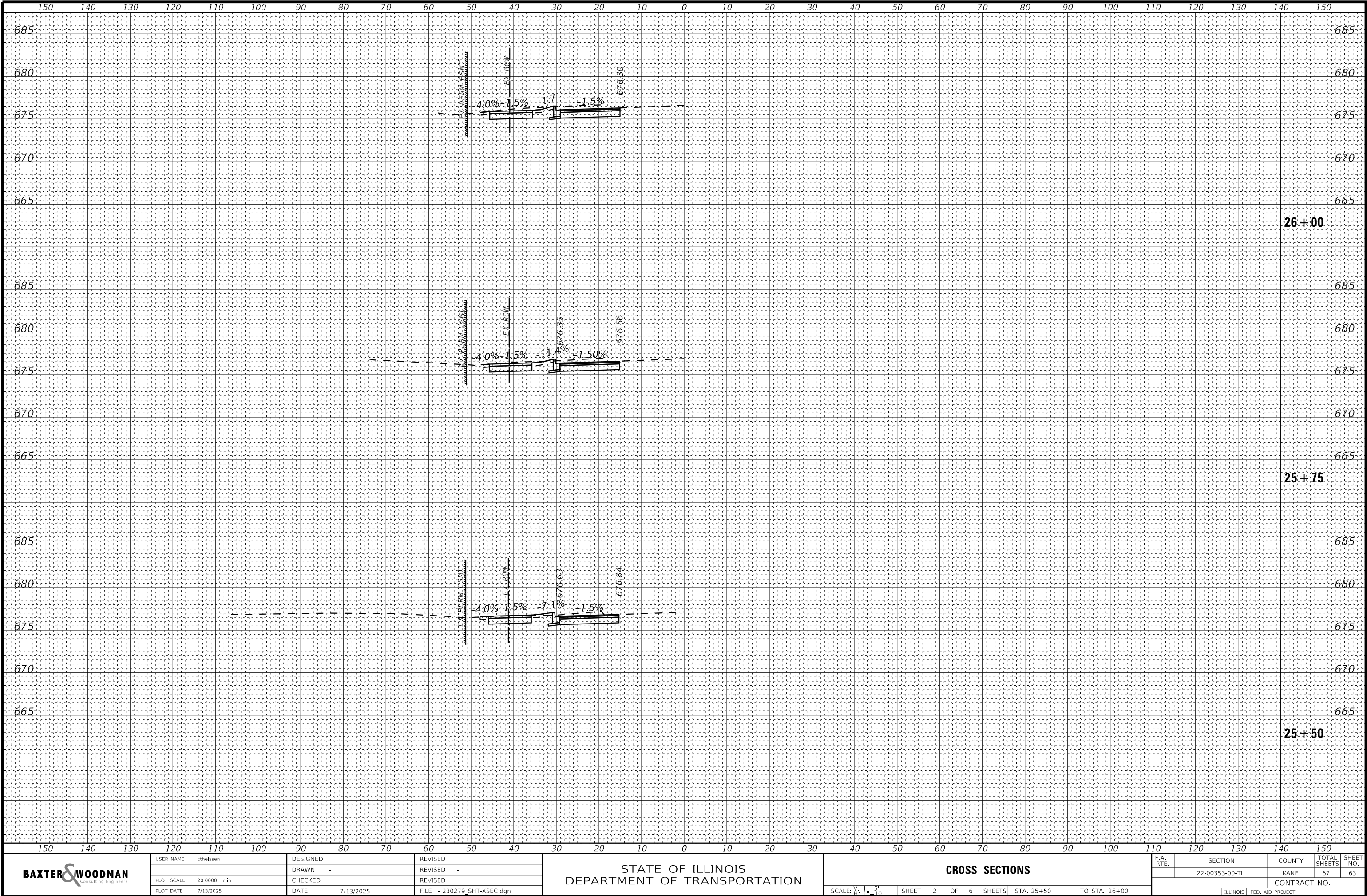
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: V: 1"=5'
H: 1"=10' SHEET 1 OF 6 SHEETS STA. 24+60 TO STA. 25+25

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	62
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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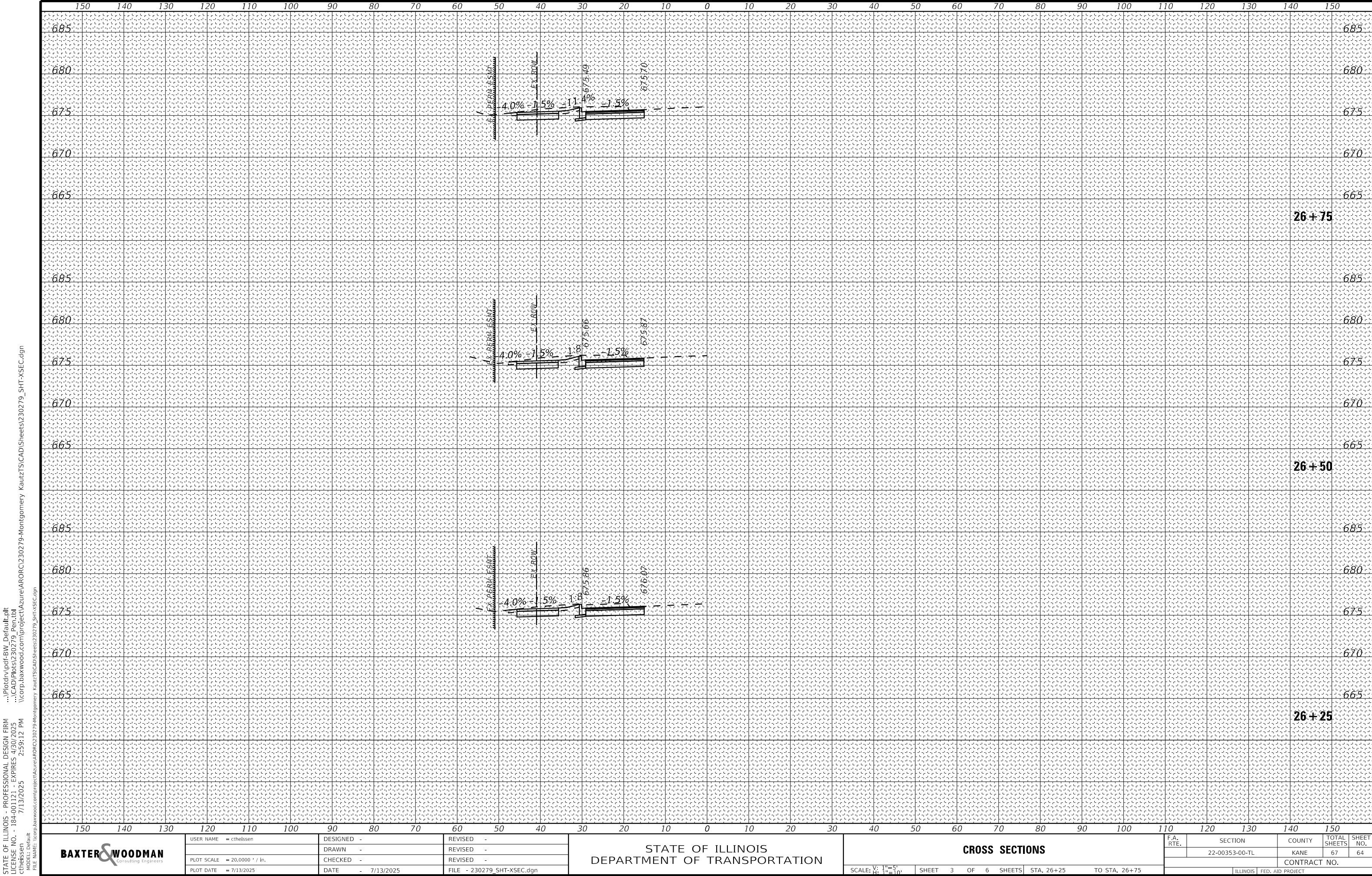
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: V: 1"=5'
H: 1"=10' SHEET 2 OF 6 SHEETS STA. 25+50 TO STA. 26+00

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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



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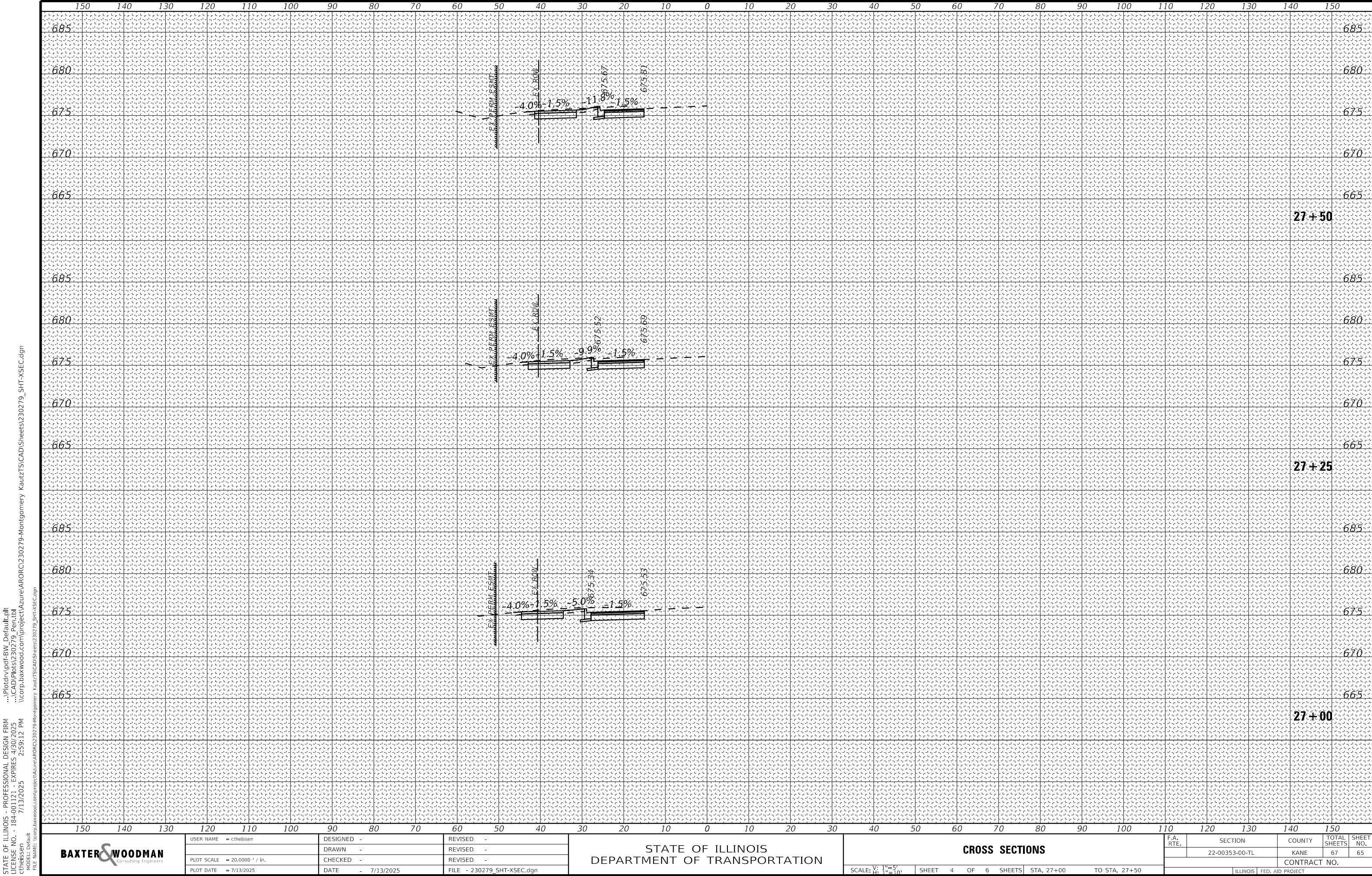
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: V: 1"=5'
H: 1"=10' SHEET 3 OF 6 SHEETS STA. 26+25 TO STA. 26+75

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	64
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: V: 1"=5'
H: 1"=10'
SHEET 6 OF 6 SHEETS
STA. 28+50 TO STA. 28+80

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00353-00-TL	KANE	67	67
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				