

5TH AVE-MCCOY DR-KAUTZ RD TRAFFIC SIGNAL INSTALLATION

AUGUST, 2021

GENERALLY LOCATED: T38N, R8E, SEC. 25, AURORA TWP, AND T38N, R9E, SEC. 30, NAPERVILLE TWP

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO 2

TRAFFIC DATA

DESIGN DESIGNATION:

KAUTZ ROAD = MAJOR COLLECTOR
5TH AVENUE = ARTERIAL
MCCOY DRIVE DRIVE = ARTERIAL

EXISTING AADT:

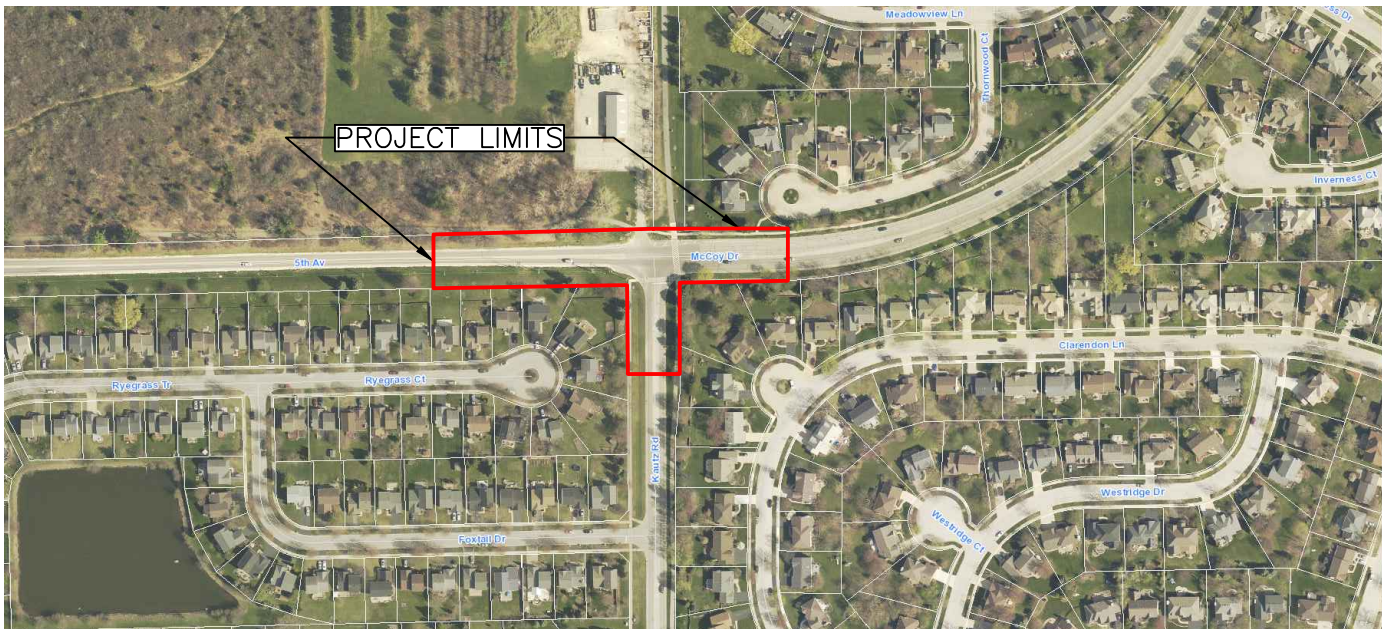
KAUTZ ROAD = 3000
5TH AVENUE = 3900
MCCOY DRIVE DRIVE = 6300

DESIGN SPEED:

KAUTZ ROAD = 30
5TH AVENUE = 35
MCCOY DRIVE DRIVE = 35

POSTED SPEED:

KAUTZ ROAD = 30 MPH
5TH AVENUE = 35 MPH
MCCOY DRIVE DRIVE = 35 MPH



SECTION NUMBER : 21-00340-00-TL

LOCATION MAP

SCALE: N.T.S.

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 SCALES PROVIDED ON PLAN PAGES MAY BE USED.

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



THIS IMPROVEMENT IS LOCATED
IN THE CITY OF AURORA

PLANS PREPARED BY:

CITY OF AURORA

DEPARTMENT OF PUBLIC WORKS, DIVISION OF ENGINEERING
77 S. BROADWAY – AURORA, IL

PHONE: 630-256-3200 FAX: 630-256-3229

REVISIONS:

REVISED 4/25/2019 BY GERARDO I. LICON

DESIGNED BY: GIL	DRAWN BY: GIL	CHECKED BY: RG	APPROVED BY: RG	HORIZ. SCALE: N/A	VERT. SCALE: N/A	DATE: 7/30/2021
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STAMP


ILLINOIS REGISTERED PROFESSIONAL

ENGINEER No.

LICENSE EXPIRES

DATE

<div>INDEX OF SHEETS</div> <div><div>1COVER SHEET</div><div>2INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS / GENERAL NOTES</div><div>3SUMMARY OF QUANTITIES</div><div>4TYPICAL SECTIONS</div><div>5PAVEMENT MARKINGS, & SIGNAGE</div><div>8CURB, BIKE PATH, & STORM SEWER IMPROVEMENTS</div><div>9TRAFFIC SIGNAL INSTALLATION PLAN - 5TH AVE - MCCOY DR - KAUTZ RD</div><div>10CABLE PLAN AND PHASE DESIGNATION DIAGRAM - 5TH AVE - MCCOY DR - KAUTZ RD</div><div>11STREET NAME SIGN DESIGN</div><div>12 - 41MISCELLANEOUS STANDARD DETAILS</div></div>			<div>LIST OF HIGHWAY STANDARDS</div> <div><div>424016-05MID-BLOCK CURB RAMPS FOR SIDEWALKs</div><div>424021-05DEPRESSED CORNER FOR SIDEWALKS</div><div>606006-04OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B-6.24 (B-15.60)</div><div>701501-06URBAN LANE CLOSURE. 2L, 2W, UNDIVIDED</div><div>701606-10URBAN SINGLE LANE CLOSURE, MULITLANE, 2W W/ MOUNTABLE MEDIAN</div><div>701611-01URBANHALF ROAD CLOSURE, MULTILANE, 2W W/ MOUNTABLE MEDIAN</div><div>701701-10URBAN LANE CLOSURE, MULTILANE INTERSECTION</div><div>701801-06SIDEWALK, CORNER OR CROSSWALK CLOSURE</div><div>728001-01TELESCOPING STEEL SIGN SUPPORT</div><div>814001-03HANDHOLES</div><div>814006-02DOUBLE HANDHOLES</div><div>873001-02TRAFFIC SIGNAL GROUNDING AND BONDING</div><div>876001-04PEDESTRIAN PUSH BUTTON POST</div><div>877001-07STEEL MAST ARM ASSEMBLY AND POLE 16'-55'</div><div>878001-10CONCRETE FOUNDATION DETAILS, TYPE A,C,D,E</div><div>880006-01TRAFFIC SIGNAL MOUNTING DETAILS</div></div> <div>DISTRICT 1 DETAILS</div> <div><div>TC-13TYPICAL PAVEMENT MARKINGS</div><div>TC-24TYPICAL PAVEMENT MARKINGS</div><div>TS-02MAST ARM MOUNTED STREET NAME SIGNS</div><div>TS-05TRAFFIC SIGNAL LEGEND</div><div>TS-05SIGNAL POST, MAST ARM LOCATIONS</div><div>TS-05CABINET, HANDHOLES, MAST ARM GROUNDING</div><div>TS-05EVP, FOUNDATION MODIFICATIONS</div><div>TS-05FOUNDATION TYPES, CABINET LENGTH/SLACK</div><div>TS-05PEDESTRIAN PUSH BUTTON POST, TYPE A</div></div> <div>CITY OF AURORA STANDARD DETAILS</div> <div><div>COA-1STREET SIGNAGE</div><div>COA-2VIDEO DETECTION CAMERA / PTZ MOUNTING DETAILS</div><div>COA-3MISCELLANEOUS CURB, GUTTER, SIDEWALK</div></div>			<div>GENERAL NOTES</div> <div>MISCELLANEOUS</div> <div>IT IS THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE CONTRACT.</div> <div>CHANGEABLE MESSAGE SIGNS AND STATIC SIGNS ARE TO BE INCLUDED IN THE COST OF PAY ITEM "TRAFFIC CONTROL AND PROTECTION".</div> <div>MOBILIZATION CONSISTS OF TRANSPORTATION AND SETUP OF VARIOUS EQUIPMENT NECESSARY TO COMPLETE THE PROJECT, AS WELL AS THE BREAK DOWN AND REMOVAL OF THE SAME EQUIPMENT. THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.</div> <div>UTILITIES</div> <div>THE CONTRACTOR SHALL COOPERATE WITH THE CITY OF AURORA IF ANY UTILITY IMPROVEMENTS ARE REQUIRED BY THE CITY WITHIN THE DURATION OF THE CONTRACT.</div> <div>THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.</div> <div>THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED, INCLUDING CLAIMS BY THE CONTRACTOR FOR TIME LOST (LABOR AND EQUIPMENT) DUE TO UTILITIES LOCATIONS OR RELOCATING UTILITIES.</div> <div>CHANGEABLE MESSAGE BOARD TO BE PLACED BY CONTRACTOR AS SPECIFIED ON SITE BY ENGINEER, 7 DAYS BEFORE AND AFTER TRAFFIC SIGNALS ARE ENERGIZED. RELOCATION OF CMS OR STATIC SIGNS AS NEED TO BE DEEMED BY ENGINEER AT NO ADDITIONAL COMPENSATION.</div> <div>RESTORATION</div> <div>RESTORATION TO BE COMPLETED BY CONTRACTOR TO MATCH EXISTING CONDITIONS AND TO INCLUDE TOPSOIL, AURORA SEEDING MIX, AND/OR SOD AS DIRECTED BY ENGINEER. RESTORATION ALSO INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING ITEMS: CURB AND GUTTER, SIDEWALK, FOUNDATION ITEMS, AND AT/NEAR TRAFFIC SIGNAL HANDHOLES, FOUNDATIONS AND CONDUIT. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.</div>		
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	CITY OF AURORA ENGINEERING DIVISION 77 S. BROADWAY	REVISIONS:			PROJECT <div>5TH AVE-MCCOY DR-KAUTZ RD TRAFFIC SIGNAL INSTALLATION</div>	SHEET NUMBER <div>2</div>	
		DESIGNED BY: GIL	CHECKED BY: RG	SCALE:		SHEET TITLE INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS, AND GENERAL NOTES	TOTAL SHEETS 41
		DRAWN BY: GIL	APPROVED BY: RG	DATE: 7/2021			

SUMMARY OF QUANTITIES				
NOTE	CODE NUMBER	ITEM	UNITY	TOTAL QUANTITY
	1	EARTH EXCAVATION	CU YD	25
	2	TOPSOIL FURNISH AND PLACE	SQ YD	245
	3	SEEDING, CLASS 2A	ACRE	0.25
	4	NITROGEN FERTILIZER NUTRIENT	POUND	5
	5	POTASSIUM FERTILIZER NUTRIENT	POUND	5
	6	EROSION CONTROL BLANKET	SQ YD	245
	7	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	125
	8	HOT-MIX ASPHALT SURFACE REMOVAL, BUTT JOINT	SQ YD	15
	9	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 AT 1.5"	TON	55
	10	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 AT 1.5"	TON	55
	11	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	360
	12	DETECTABLE WARNINGS	SQ FT	20
	13	PAVEMENT REMOVAL	SQ YD	130
	14	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	55
	15	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	FOOT	100
	16	SIDEWALK REMOVAL	SQ FT	100
	17	CLASS D PATCHES, TYPE 1, 3 INCH	SQ YD	20
	18	STORM SEWERS, CLASS A, TYPE 4 12"	FOOT	100
	19	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1
	20	INLETS, TYPE A, TYPE 2 FRAME AND GRATE	EACH	1
	21	MANHOLES TO BE ADJUSTED WITH NEW TYPE 8 GRATE	EACH	1
	22	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	150
	23	MOBILIZATION	LSUM	1
	24	CHANGEABLE MESSAGE SIGN	CAL DA	42
	25	SHORT TERM PAVEMENT MARKINGS	FOOT	2300
	26	TEMPORARY PAVEMENT MARKINGS- LETTERS & SYMBOLS	SQ FT	100
	27	SIGN PANEL - TYPE 1	SF	42
	28	SIGN PANEL - TYPE 2	SF	32
	29	INSTALL EXISTING SIGN PANEL	SQ FT	8
	30	REMOVE SIGN PANEL - TYPE 1	SF	23
	31	TELESCOPING STEEL SIGN SUPPORT	FT	90
	32	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EA	6
	33	THERMOPLASTIC PAVEMENT MARKINGS - LETTERS AND SYMBOLS	SF	175
	34	THERMOPLASTIC PAVEMENT MARKINGS, 4" (YELLOW)	FT	1030
	35	THERMOPLASTIC PAVEMENT MARKINGS, 4" (WHITE)	FT	605
	36	THERMOPLASTIC PAVEMENT MARKINGS, 6" (WHITE)	FT	595
	37	THERMOPLASTIC PAVEMENT MARKINGS, 12" (WHITE)	FT	440
	38	THERMOPLASTIC PAVEMENT MARKINGS, 24" (WHITE)	FT	100
	39	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	40	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	100
	41	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA	FOOT	50
	42	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA	FOOT	275
	43	HANDHOLE	EACH	3
	44	DOUBLE HANDHOLE	EACH	1

SUMMARY OF QUANTITIES				
NOTE	CODE NUMBER	ITEM	UNITY	TOTAL QUANTITY
	45	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	515
	46	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	1
	47	FULL-ACTUATED CONTROLLER AND TYPE M CABINET	EACH	1
	48	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	530
	49	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1230
	50	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1540
	51	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1420
	52	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	100
	53	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	410
	54	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
	55	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT	EACH	1
	56	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT	EACH	1
	57	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT	EACH	1
	58	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 38 FT (20 FT LUMINAIRE ARM)	EACH	1
	59	CONCRETE FOUNDATION, TYPE A	FOOT	12
	60	CONCRETE FOUNDATION, TYPE C	FOOT	4
	61	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	45
	62	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
	63	SIGNAL HEAD, LED, 1-FACE, 3 SECTION, MAST-ARM MOUNTED	EACH	5
	64	SIGNAL HEAD, LED, 1 FACE, 3 SECTION, BRACKET MOUNTED	EACH	3
	65	SIGNAL HEAD, LED, 1-FACE, 5 SECTION, BRACKET MOUNTED	EACH	3
	66	SIGNAL HEAD, LED, 1-FACE, 5 SECTION, MAST-ARM MOUNTED	EACH	3
	67	PEDESTRAIN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
	68	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
	69	LIGHT DETECTOR (INCLUDE CONFIRMATION BEACON)	EACH	4
	70	LIGHT DETECTOR AMPLIFIER	EACH	1
	71	PEDESTRIAN PUSH-BUTTON	EACH	4
	72	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	710
	73	ETHERNET SWITCH	EACH	1
	74	VIDEO DETECTION SYSTEM	EACH	1
	75	CAT. 6 ETHERNET CABLE	FOOT	155
*	76	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	77	PEDESTRIAN PUSH-BUTTON POST	EACH	1
	78	CONNECTING TO EXISTING MANHOLES BY CORE DRILLING	EACH	2
	79	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
	80	CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	L SUM	1
	81	CONSTRUCTION LAYOUT	LSUM	1
***	82	ITEMS ORDERED BY ENGINEER	ALLOWANCE	1
*	83	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1
*	84	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1
*	85	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	LSUM	1
*	86	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1
*	87	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1
* SEE SPECIAL PROVISIONS				
*** INDICATES SPECIALTY ITEMS				



CITY OF AURORA
ENGINEERING DIVISION
77 S. BROADWAY

REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

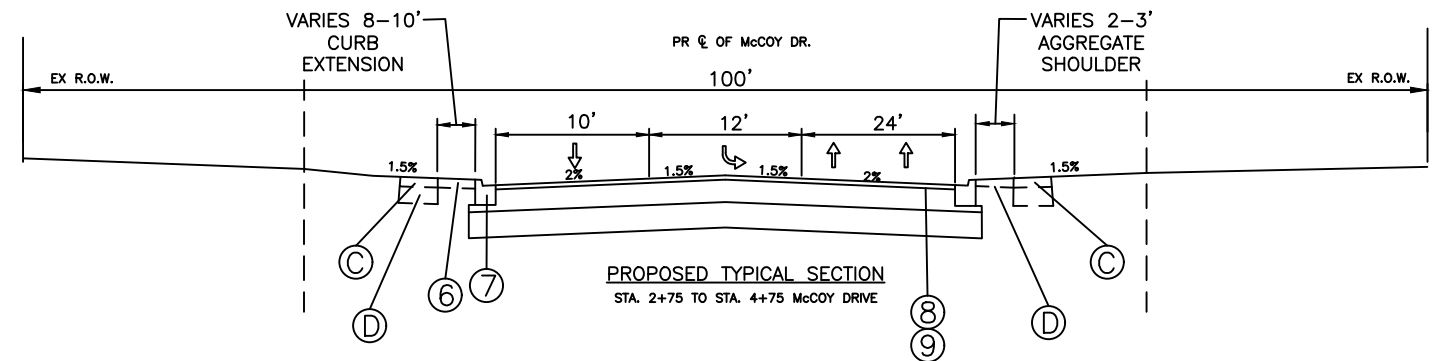
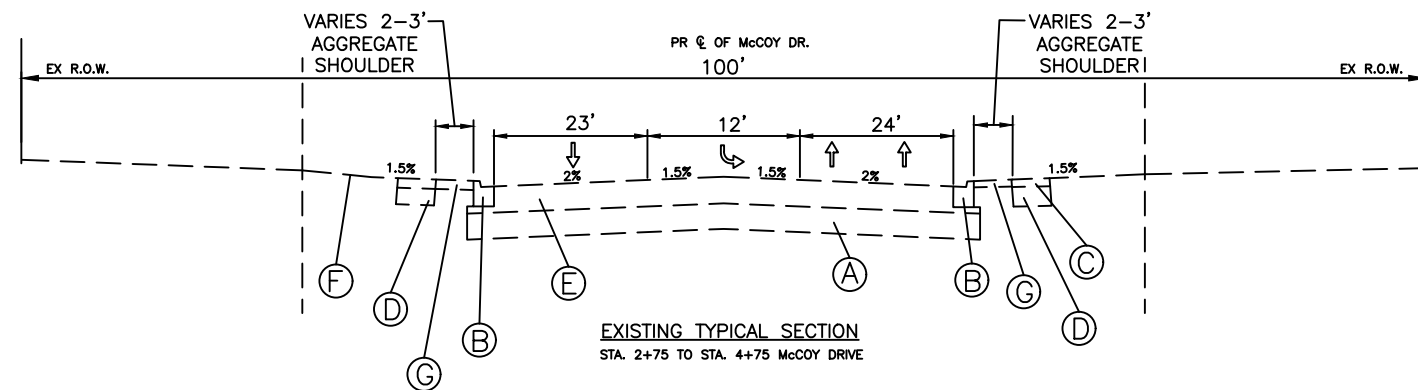
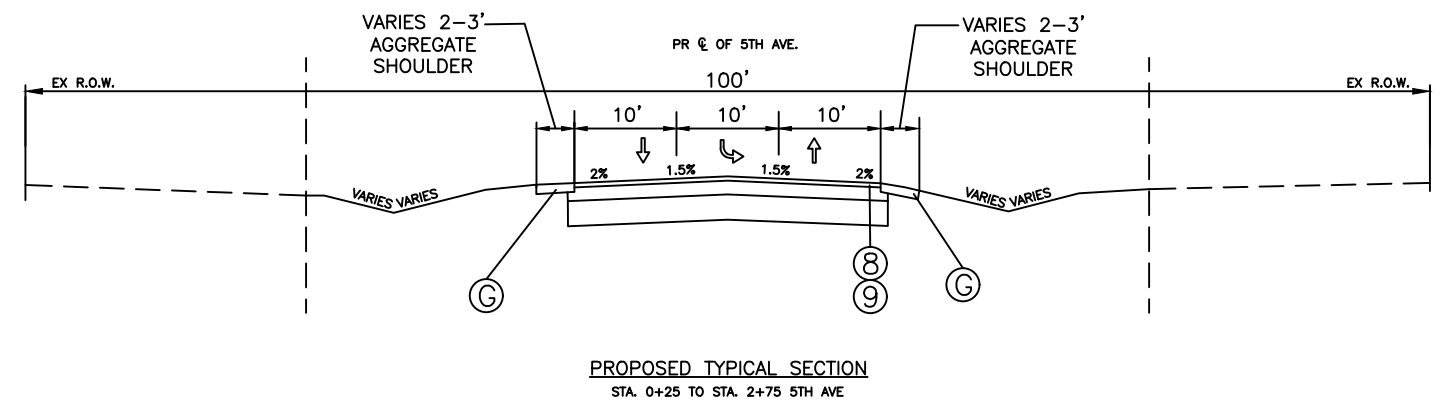
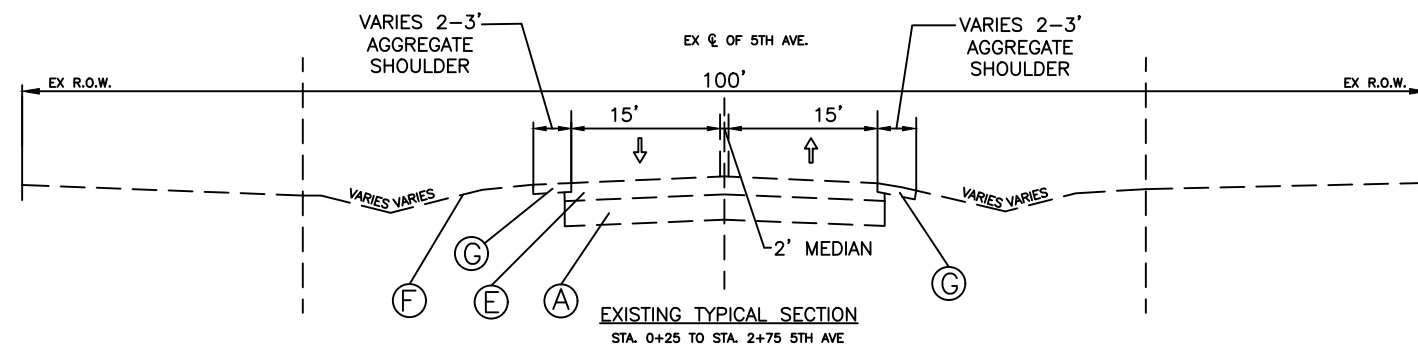
SUMMARY OF QUANTITIES

SHEET NUMBER

3


TOTAL SHEETS

41



NOTES:

TEMPORARY PAVEMENT MARKINGS TO BE DETERMINED BY R.E.

 INDICATES PAVEMENT REMOVAL

LEGEND

EXISTING

- (A) EXISTING BASE
- (B) CONCRETE CURB & GUTTER TYPE B-6.12
- (C) PORTLAND CEMENT CONCRETE SIDEWALK
- (D) SIDEWALK BASE
- (E) HOT-MIX ASPHALT PAVEMENT (VARIES 5" TO 9")
- (F) EXISTING GROUND
- (G) AGGREGATE SHOULDER
- (H) STRIPED DIAGONALS

PROPOSED

- ① PAVEMENT REMOVAL
- ② CURB EXTENSION
- ③ SIDEWALK REMOVAL
- ④ PORTLAND CEMENT CONCRETE SIDEWALK 5"
- ⑤ AGGREGATE BASE COURSE, TYPE B, 6"
- ⑥ TOPSOIL (DEPTH VARIES) SEEDING CLASS 2A FERTILIZER & EROSION CONTROL BLANKET
- ⑦ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- ⑧ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; 1.5"
- ⑨ HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70; 1.5"

HOT-MIX ASPHALT MIXTURE REQUIRMENTS

MIXTURE TYPE	AIR VOIDS
PAVEMENT RESURFACING: 5TH AVE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; 1-1/2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE. IL-9.5, N70; 1-1/2"	4% @ 70 GYR.
PATCHING AND CLASS D PATCHING	4% @ 70 GYR.
CLASS D (HMA BINDER IL-19 MM)	4% @ 70 GYR.

REVISIONS:

DESIGNED BY: GIL	CHECKED BY: RA	SCALE: NTS
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

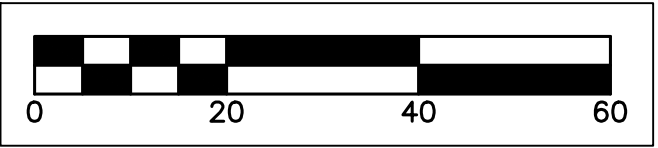
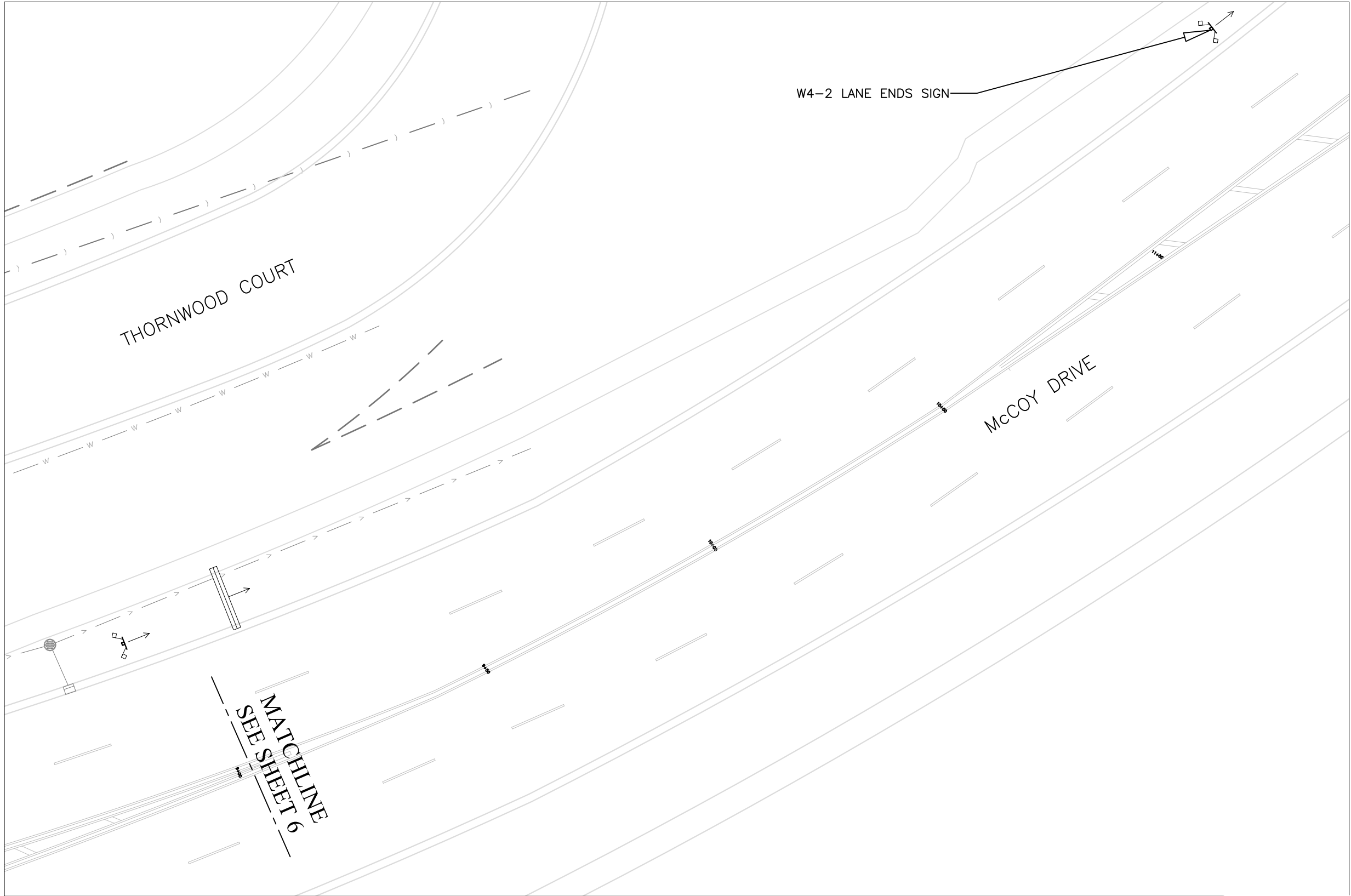
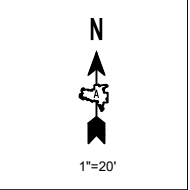
TYPICAL SECTIONS

SHEET NUMBER

4

TOTAL SHEETS

41



CITY OF AURORA
ENGINEERING DIVISION
77 S. BROADWAY

REVISIONS:

DESIGNED BY: GIL	CHECKED BY: RA	SCALE: 1"=20'
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

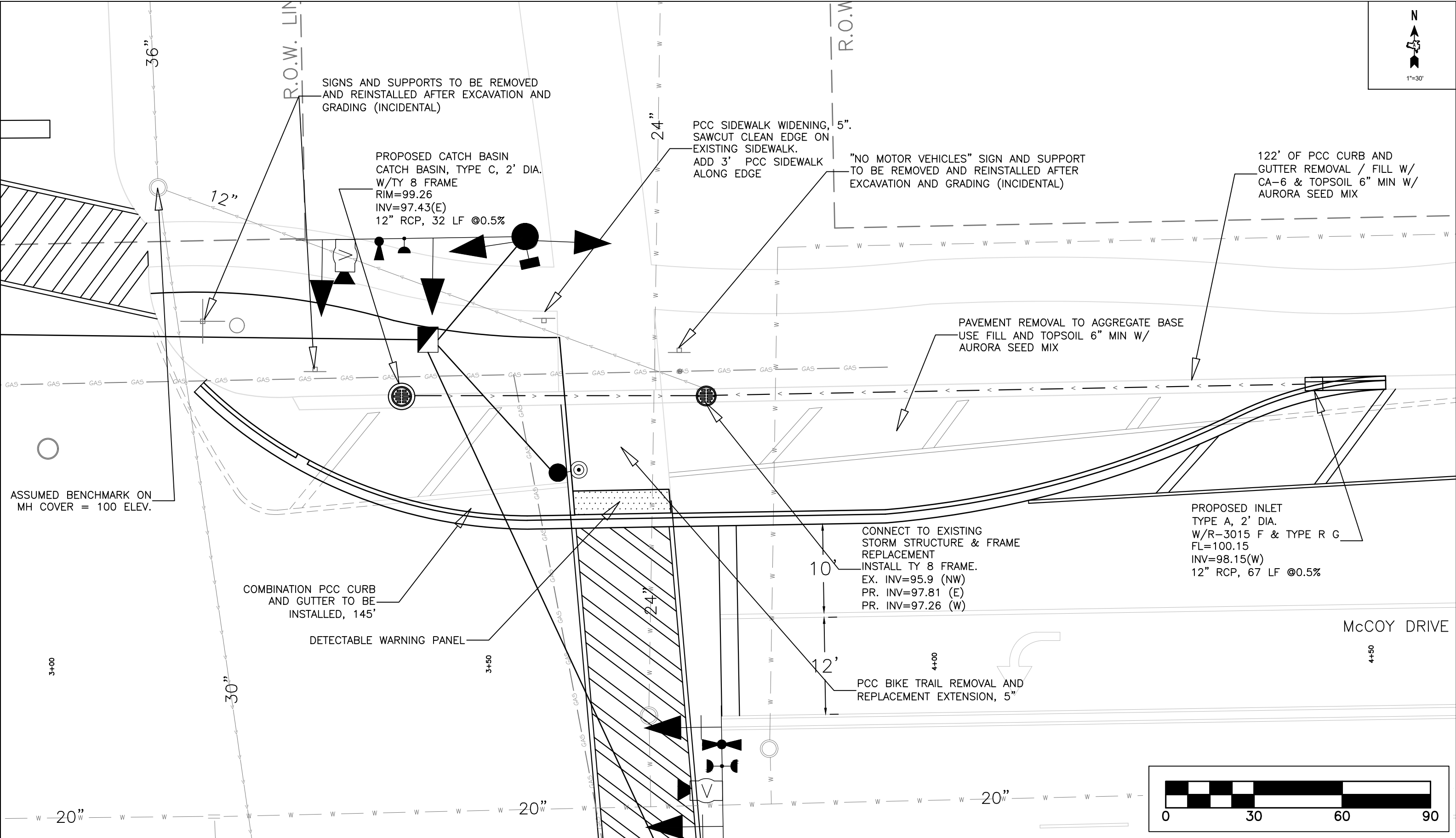
TRAFFIC SIGNAL INSTALLATION PLAN


SHEET NUMBER

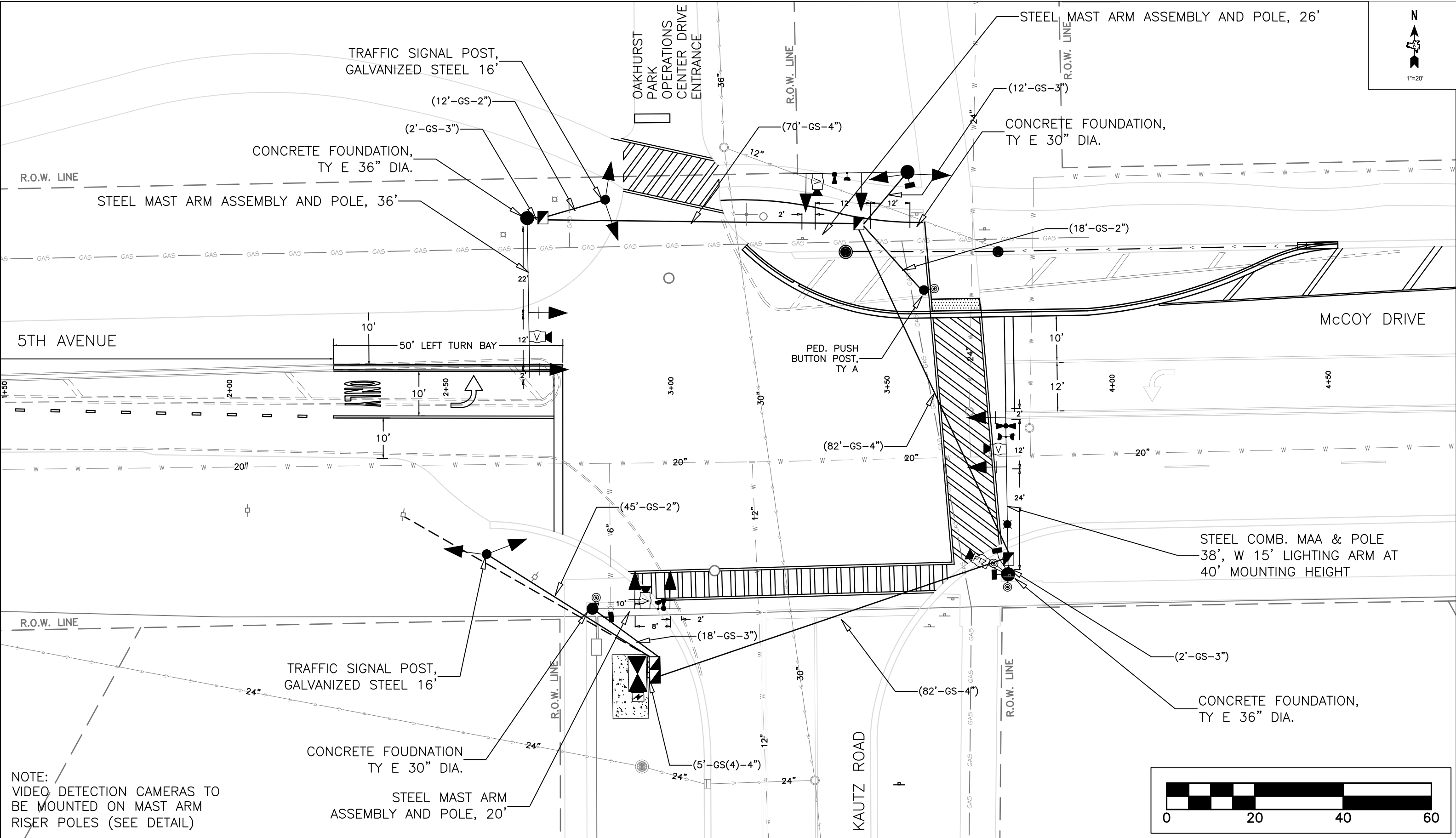
7

TOTAL SHEETS


41

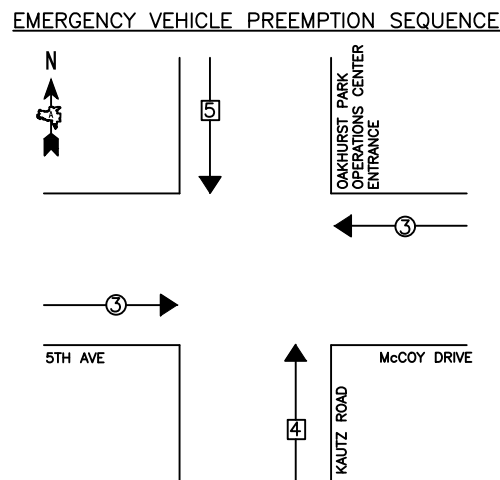
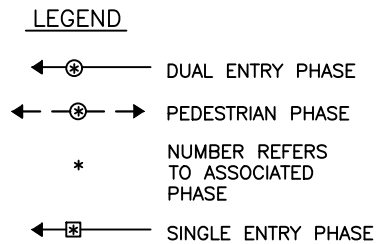
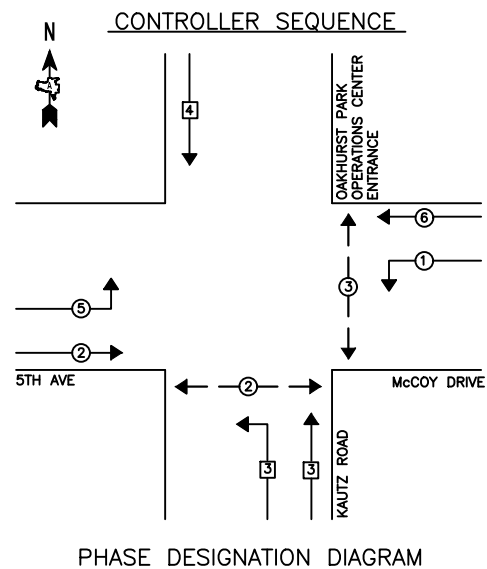


 CITY OF LIGHTS	CITY OF AURORA ENGINEERING DIVISION 77 S. BROADWAY	REVISIONS:			PROJECT 5TH AVE-MCCOY DR-KAUTZ RD TRAFFIC SIGNAL INSTALLATION	SHEET NUMBER 8
		DESIGNED BY: GIL	CHECKED BY: RA	SCALE: 1"=30'		SHEET TITLE CURB, BIKE PATH & STORM SEWER IMPROVEMENTS
		DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021		



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

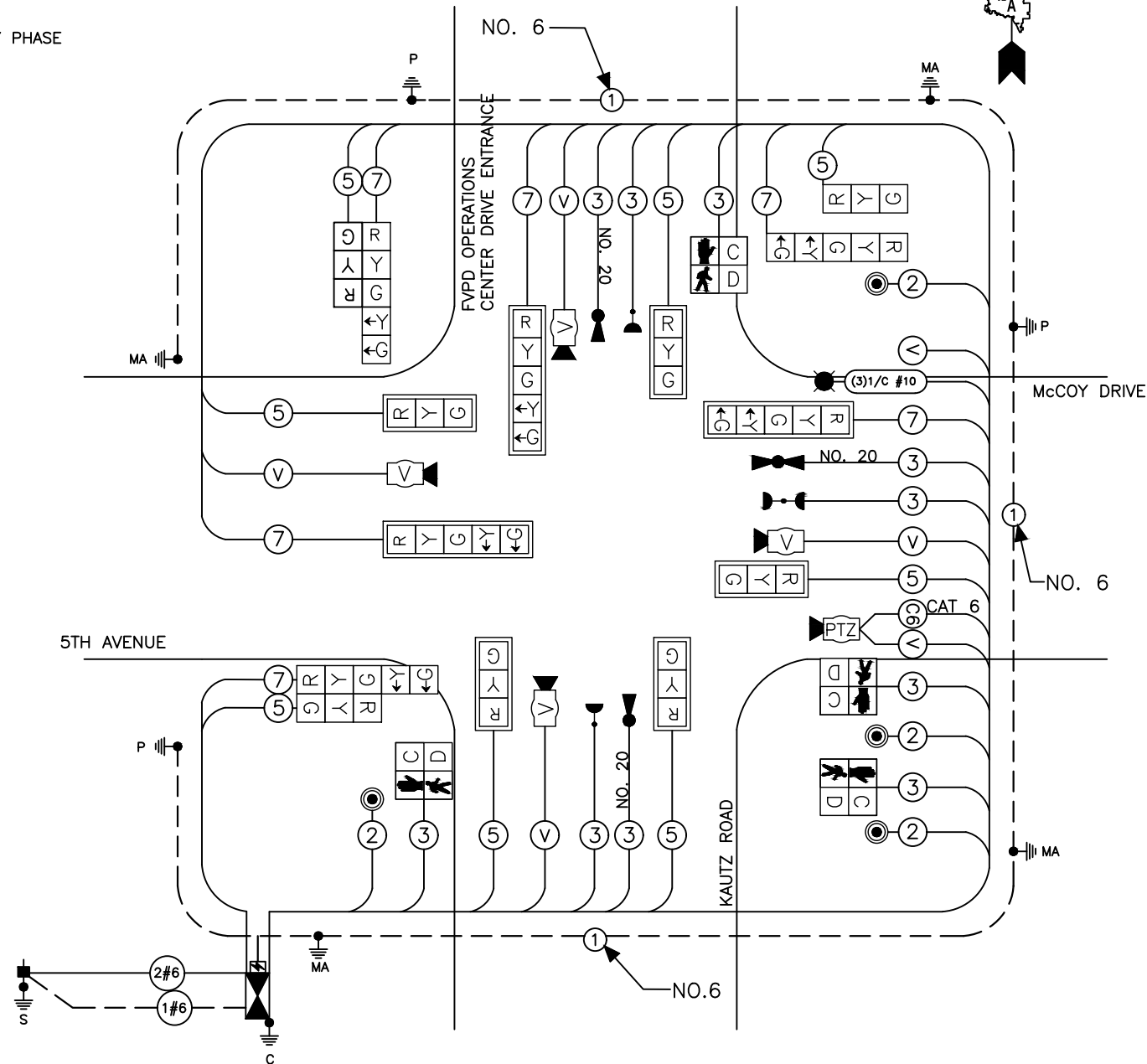
	CITY OF AURORA ENGINEERING DIVISION 77 S. BROADWAY	REVISIONS:			PROJECT 5TH AVE-MCCOY DR-KAUTZ RD TRAFFIC SIGNAL INSTALLATION	SHEET NUMBER 9	
		DESIGNED BY: GIL	CHECKED BY: RA	SCALE: 1"=20'			SHEET TITLE TRAFFIC SIGNAL INSTALLATION PLAN
		DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021			
					TOTAL SHEETS 41		



PROPOSED EMERGENCY VEHICLE PREEMPTION			
EMERGENCY VEHICLE PREEMPTION	3	4	5
MOVEMENT	↔	↑	↓

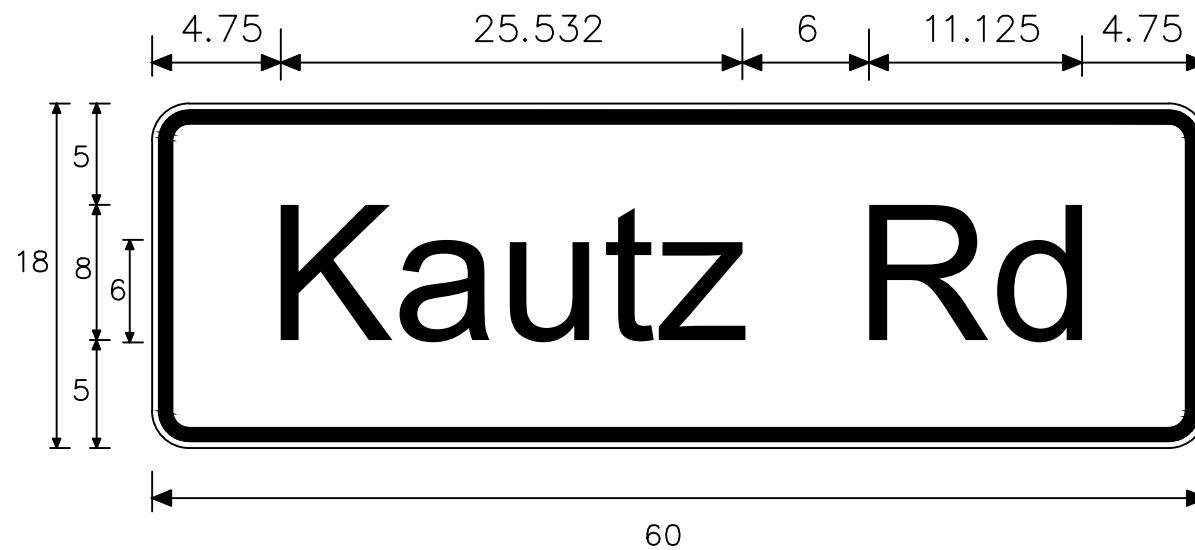
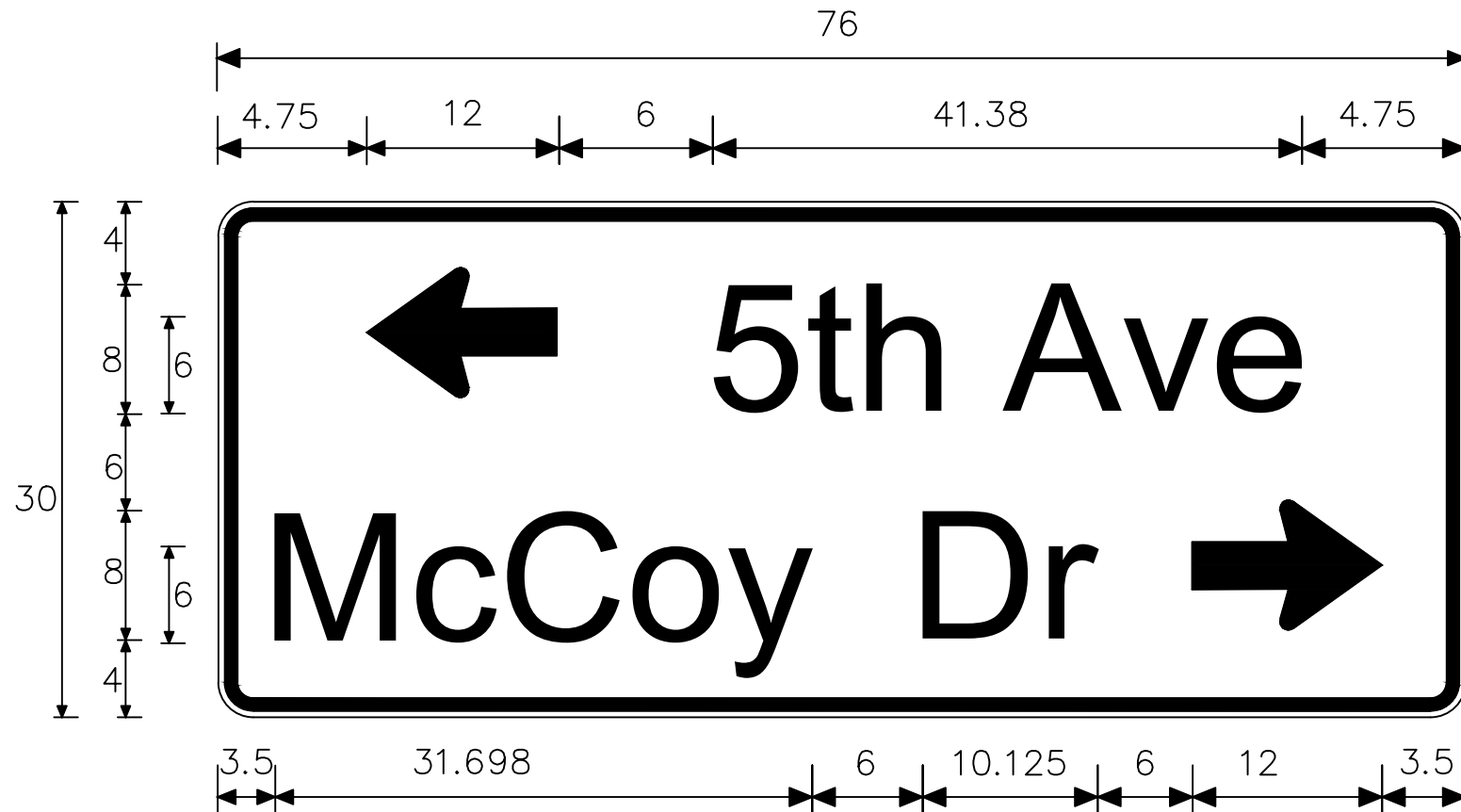
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	14	17		0.50	119
(YELLOW)	14	25		0.25	88
(GREEN)	14	15		0.25	53
ARROW	12	12		0.10	14
PED. SIGNAL	4	25		1.00	100
CONTROLLER	1	100		1.00	100
UPS	1	25		1.00	25
VIDEO SYSTEM	1	15		1.00	15
CELLULAR MODEM, COM2 TS NETWORK					
ENERGY COSTS TO: CITY OF AURORA 44 E. DOWNER PLACE AURORA, ILLINOIS 60507-2067				TOTAL =	514
ENERGY SUPPLY CONTACT: MARK SCHERIBEL PHONE: (630) 723-2128 COMPANY: COMMONWEALTH EDISON					

NOTE:
GROUNDING AND BONDING LABOR, EQUIPMENT, AND MATERIAL COSTS ARE INCLUDED IN THE CONTRACT CABLE, FOUNDATION AND HANDHOLE PAY ITEMS PER INCLUDED PLAN STANDARD DETAILS TS-05 AND 873001-02.



SCHEDULE OF QUANTITIES

PAY ITEM DESCRIPTION	UNIT	QUANTITY
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	100
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	275
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	515
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	530
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1230
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1540
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1420
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	100
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	410
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 20 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT	EACH	1
STEEL COMBINATON MAST ARM ASSEMBLY AND POLE, 38 FT (20 FT. LUMINAIRE ARM)	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	45
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
SIGNAL HEAD, LED, 1-FACE, 3 SECTION, MAST-ARM MOUNTED	EACH	5
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
PEDESTRAIN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
LIGHT DETECTOR (INCLUDE CONFIRMATION BEACON)	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	710
ETHERNET SWITCH	EACH	1
VIDEO DETECTION SYSTEM	EACH	1
CAT. 6 ETHERNET CABLE	FOOT	155
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
PEDESTRIAN PUSH-BUTTON POST	EACH	1
CONNECTING TO EXISTING MANHOLES BY CORE DRILLING	EACH	2
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	L SUM	1

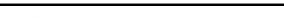


NOTE:
ALL BRACKETS AND MOUNTING
HARDWARE NECESSARY TO MOUNT
SIGNS ON MAST ARMS AND POLES
INCLUDED IN COST OF PAY ITEM
SIGN PANEL – TYPE 1 AND 2

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: 4/22/21	REVISED:	REVISED:
DRAWN: AH		REVISED:	REVISED:

 CITY OF LIGHTS	CITY OF AURORA ENGINEERING DIVISION 77 S. BROADWAY	REVISIONS:			PROJECT	5TH AVE-MCCOY DR-KAUTZ RD MAST ARM MOUNTED STREET NAME SIGNS	SHEET NUMBER 11
		DESIGNED BY: GIL	CHECKED BY: RA	SCALE: NTS	SHEET TITLE	STREET NAME SIGN DESIGNS	TOTAL SHEETS 41
		DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021			

TRAFFIC SIGNAL LEGEND
(NOT TO SCALE)

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

USER NAME: ✖ ✖

DESIGNED: ✖ ✖

DRAWN: ✖ ✖

CHECKED: ✖ ✖

DATE: ✖ ✖

REVISIONS:

DESIGNED BY: RA

CHECKED BY: RG

SCALE:

DRAWN BY: GIL/AH

APPROVED BY: RG

DATE: 7/2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
SCALE: NONE
SHEET 1 OF 7
SHEETS STA. TO STA.

F.A. RTG.

SECTION

COUNTY

TOTAL SHEETS

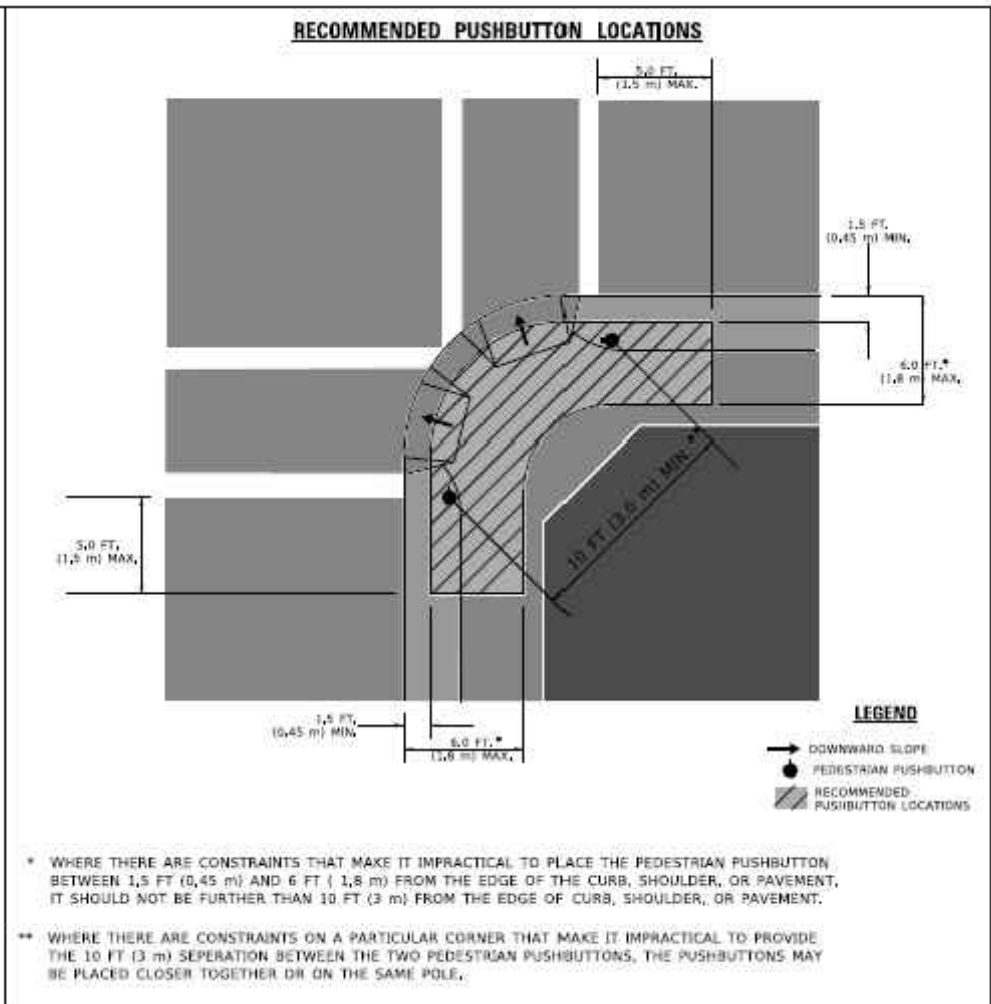
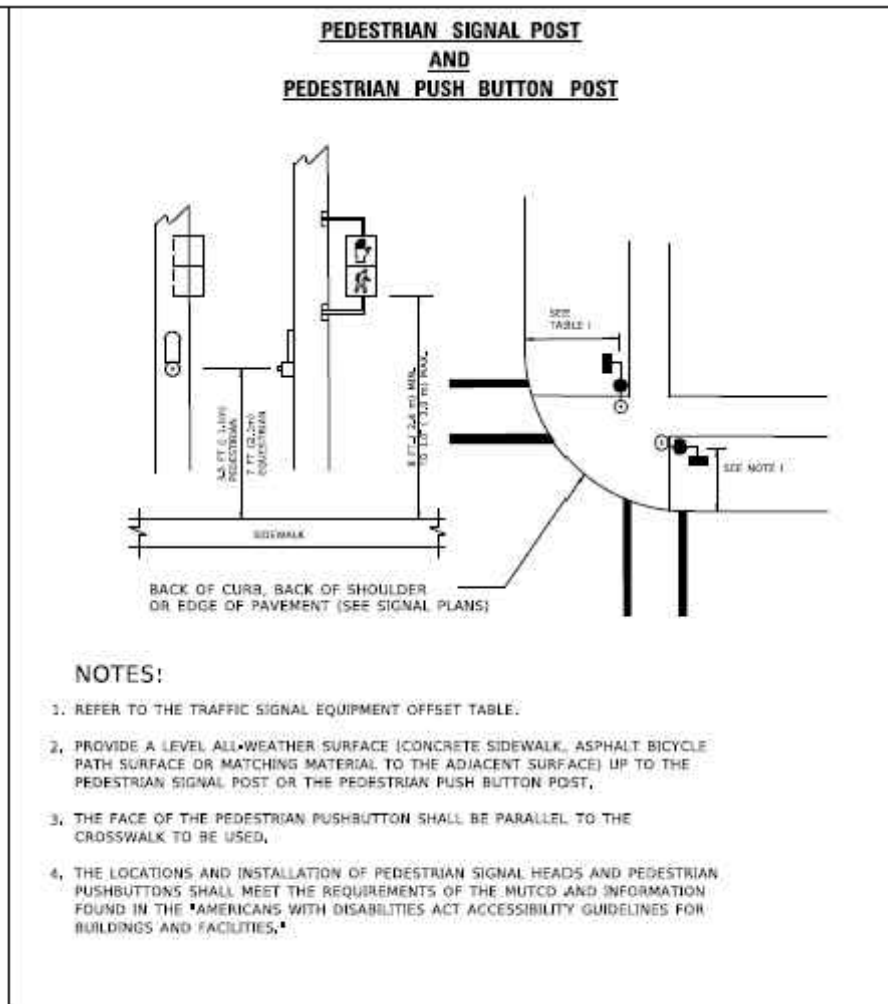
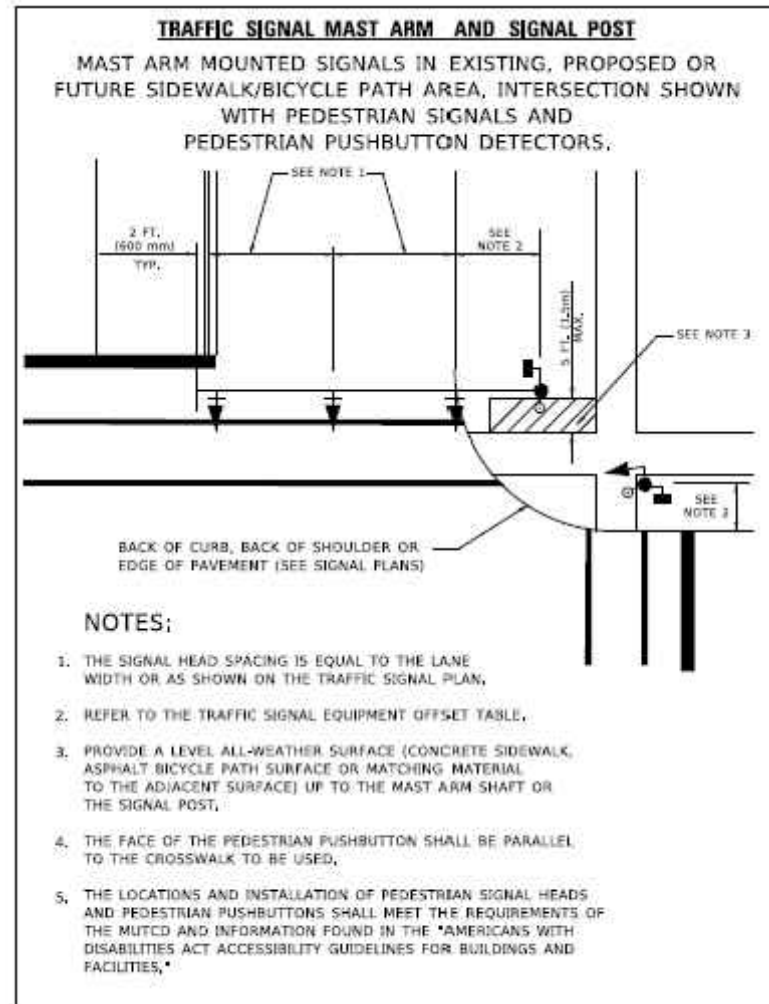
SHEET NO.

TS-05

CONTRACT NO.

ILLINOIS

FED. AID PROJECT



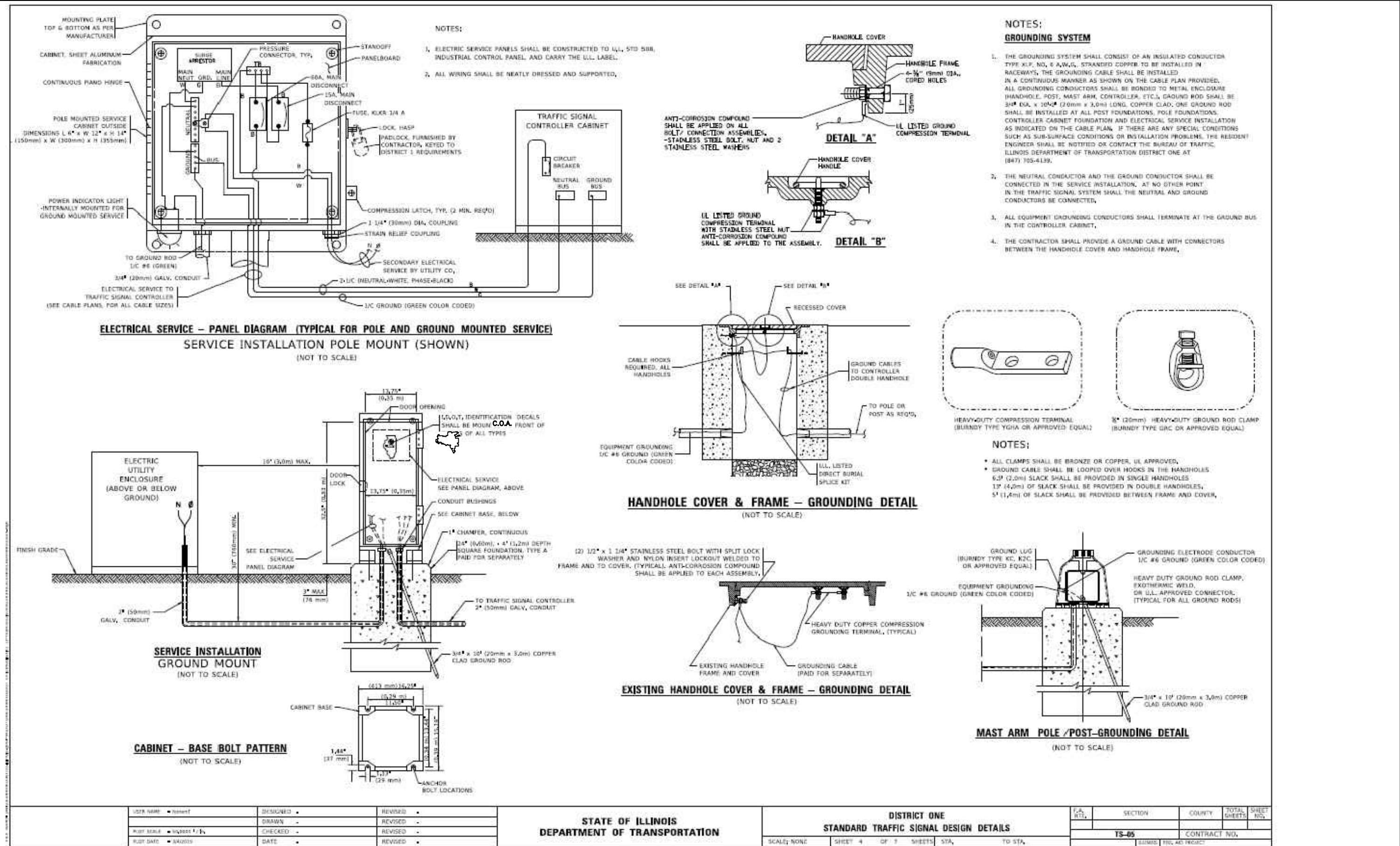
NOTES:

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

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

NOTES:

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



REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

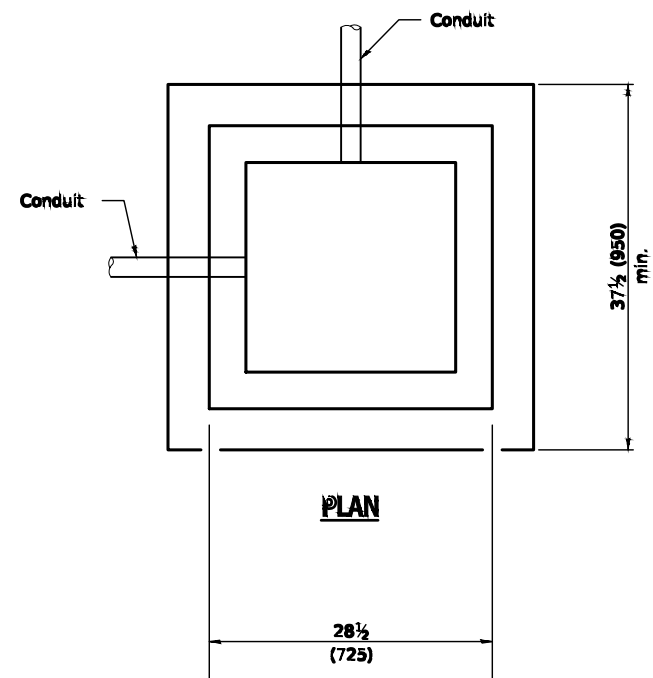
MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

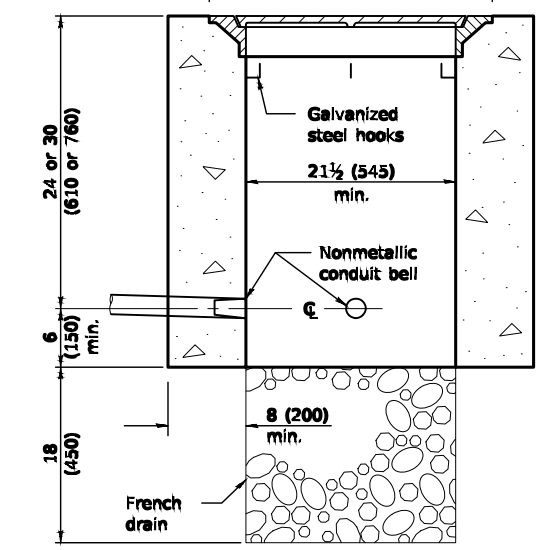
14

TOTAL SHEETS

41



PLAN

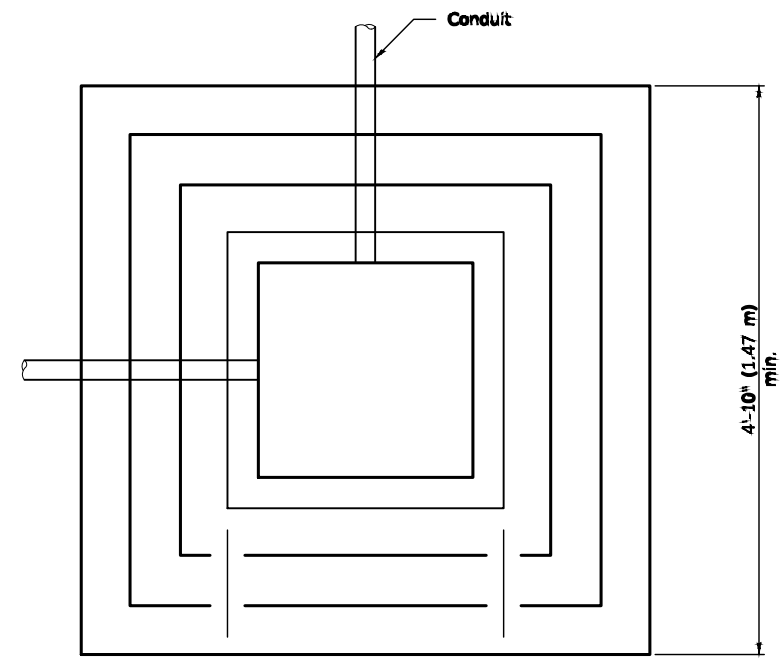


ELEVATION

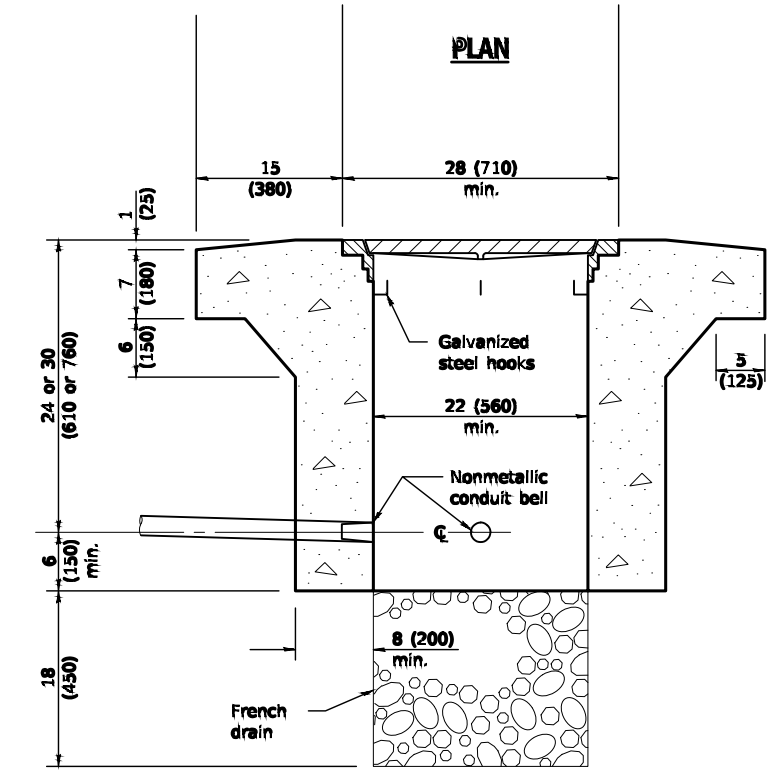
PORTLAND CEMENT CONCRETE

QUANTITIES

Depth	Concrete yd³ (m³)	
	Handhole	Heavy Duty Handhole
30 (762)	0.61 (0.47)	0.98 (0.75)
36 (914)	0.73 (0.56)	1.10 (0.84)

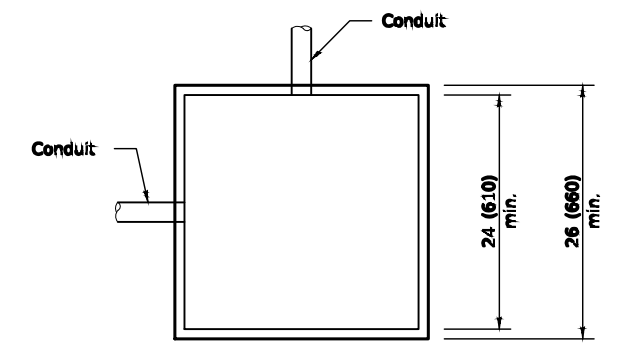


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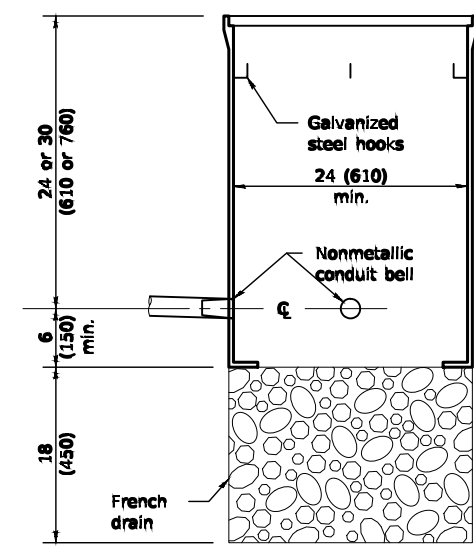


ELEVATION

**PORTLAND CEMENT CONCRETE
HEAVY DUTY**



PLAN



ELEVATION

COMPOSITE CONCRETE

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

Illinois Department of Transportation

PASSED January 1, 2013

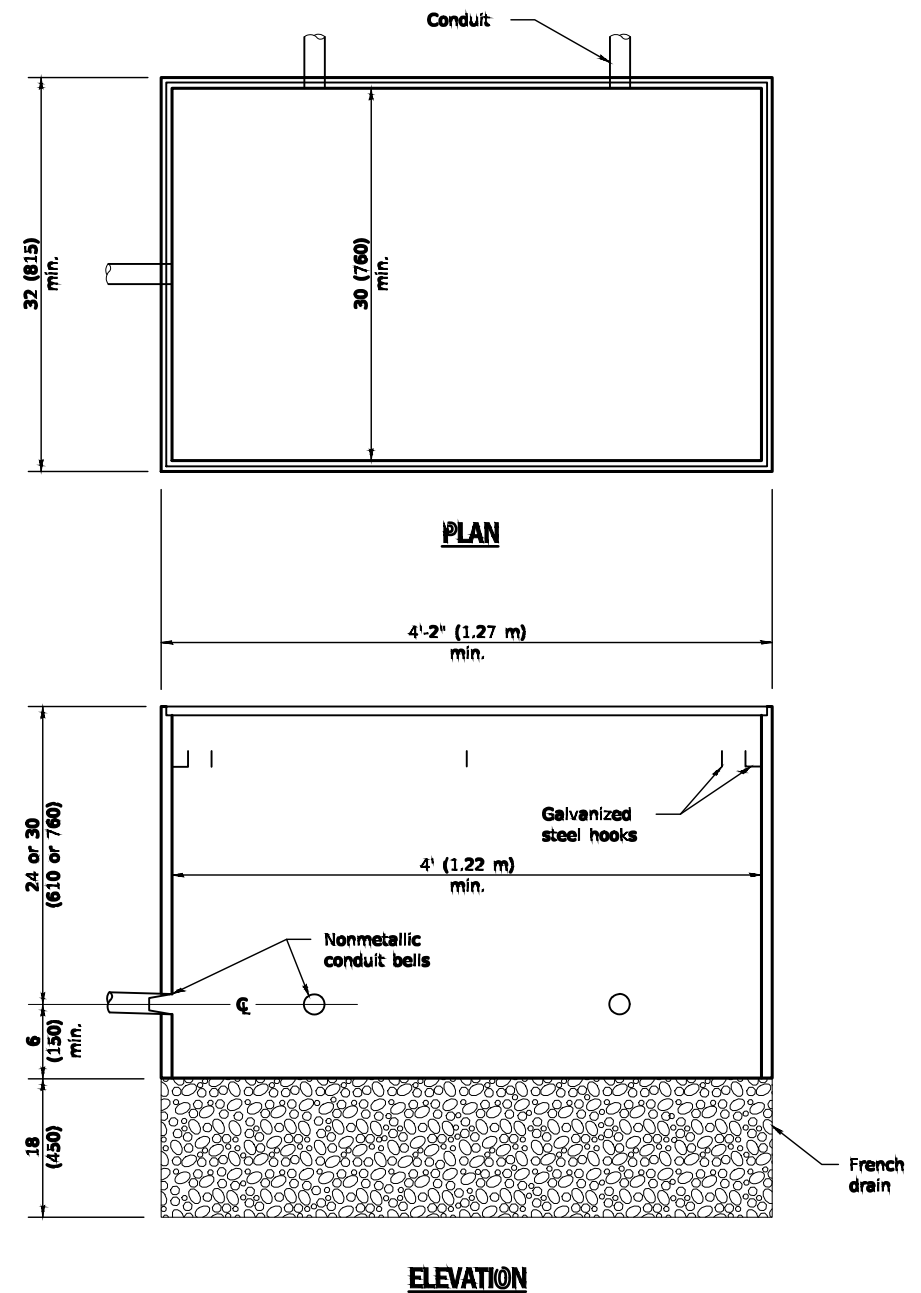
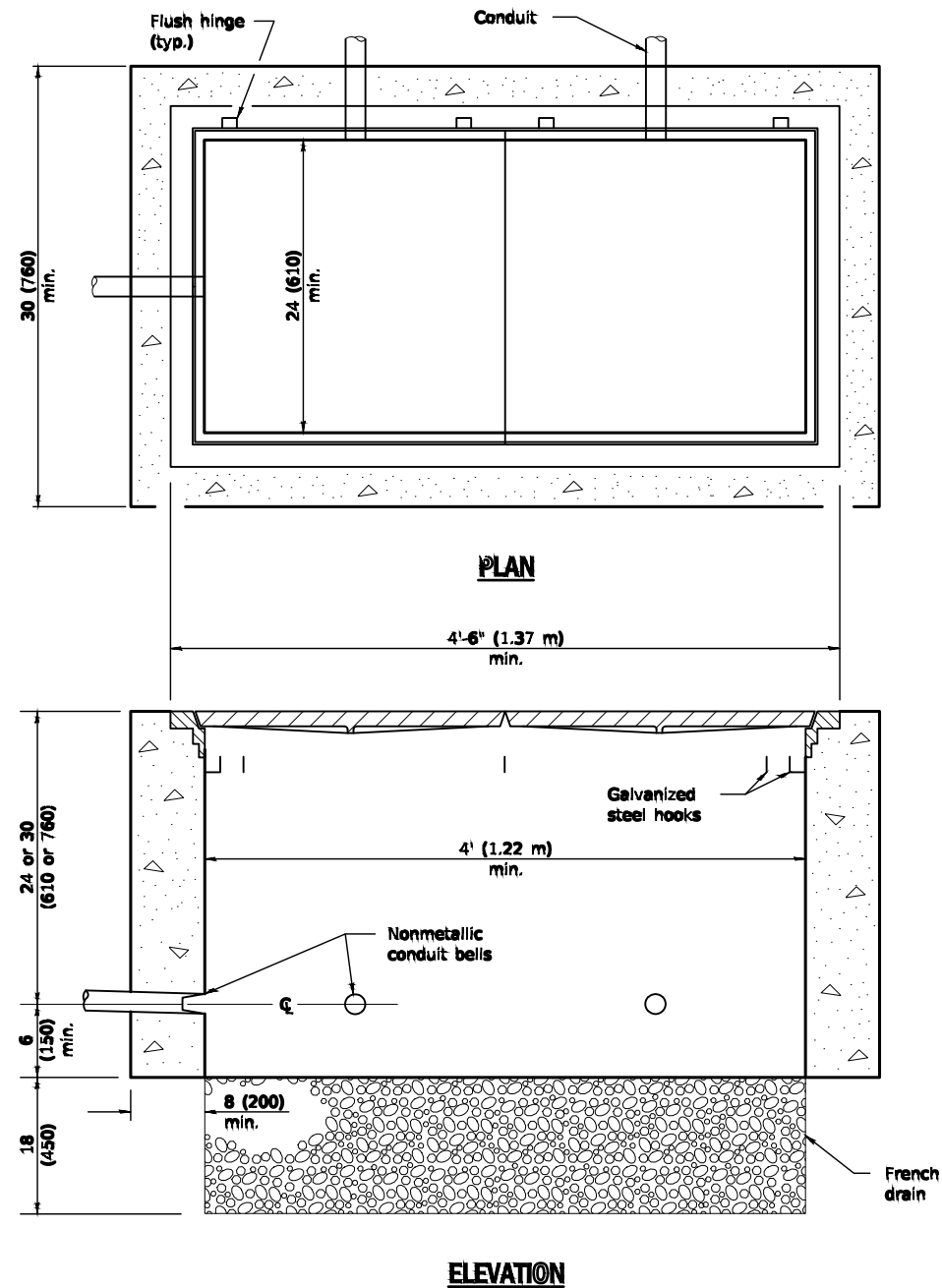
ENGINEER OF OPERATIONS

APPROVED January 1, 2013

ENGINEER OF DESIGN AND ENVIRONMENT




ISSUED 1-1-17

DATE	REVISIONS	HANDHOLES
1-1-15	Corrected dimension on heavy duty handhole. Added concrete quantities table.	
1-1-09	Switched units to English (metric).	STANDARD 814001-03



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

DATE	REVISIONS	DOUBLE HANDHOLES
1-1-09	Switched units to English (metric).	
1-1-07	Revised composite conc. handhole. Rem. weights of frames and covers.	STANDARD S14006-02

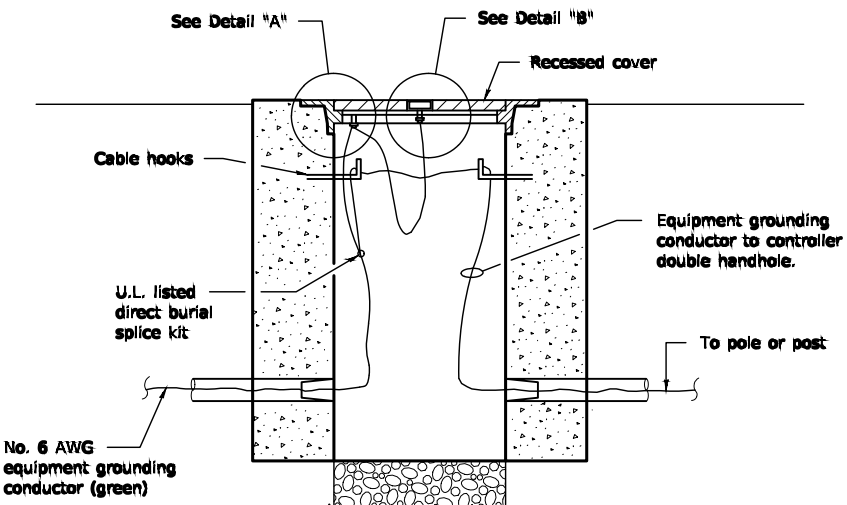
 Illinois Department of Transportation		
PASSED	January 1, 2009	ISSUED 1-1-97
		
ENGINEER OF OPERATIONS		
APPROVED	January 1, 2009	
		
ENGINEER OF DESIGN AND ENVIRONMENT		

CITY OF AURORA
ENGINEERING DIVISION
77 S. BROADWAY

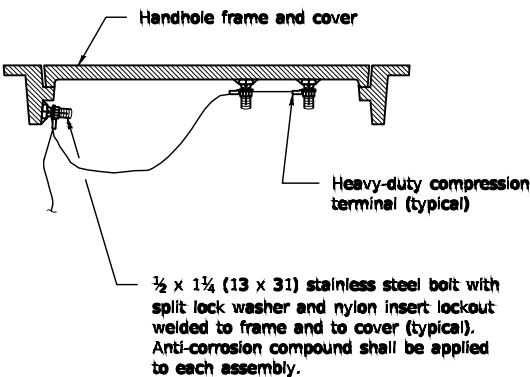
REVISIONS:		
DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT	5TH AVE-MCCOY DR-KAUTZ RD TRAFFIC SIGNAL INSTALLATION
SHEET TITLE	MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER	16
TOTAL SHEETS	41



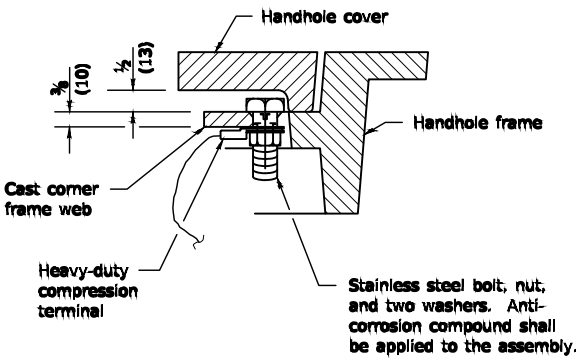
**BONDING A HANDHOLE
COVER & FRAME**



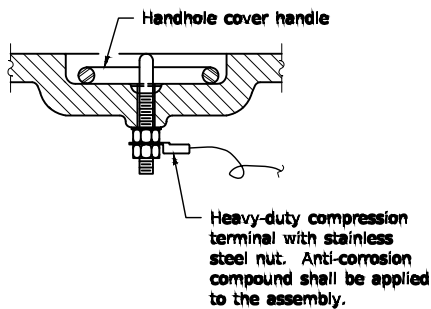
**BONDING AN EXISTING
HANDHOLE COVER & FRAME**



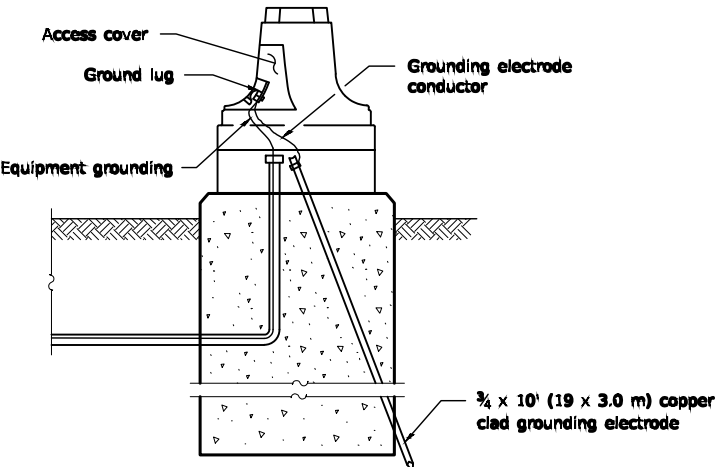
**HEAVY-DUTY
COMPRESSION TERMINAL**



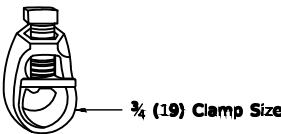
DETAIL "A"



DETAIL "B"



GROUNDING A MAST ARM POLE/POST



**HEAVY-DUTY
GROUND ROD CLAMP**

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

Illinois Department of Transportation	
PASSED	January 1, 2000
ENGINEER OF OPERATIONS	
APPROVED	January 1, 2000
ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS	TRAFFIC SIGNAL GROUNDING & BONDING
1-1-09	Switched units to English (metric).	
1-1-07	Revised terminology.	STANDARD 873001-02

CITY OF AURORA
ENGINEERING DIVISION
77 S. BROADWAY

REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

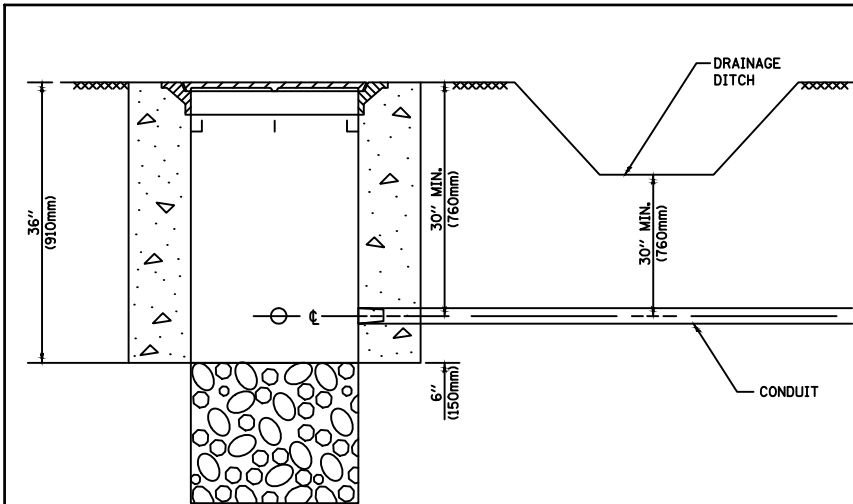
MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

17

TOTAL SHEETS

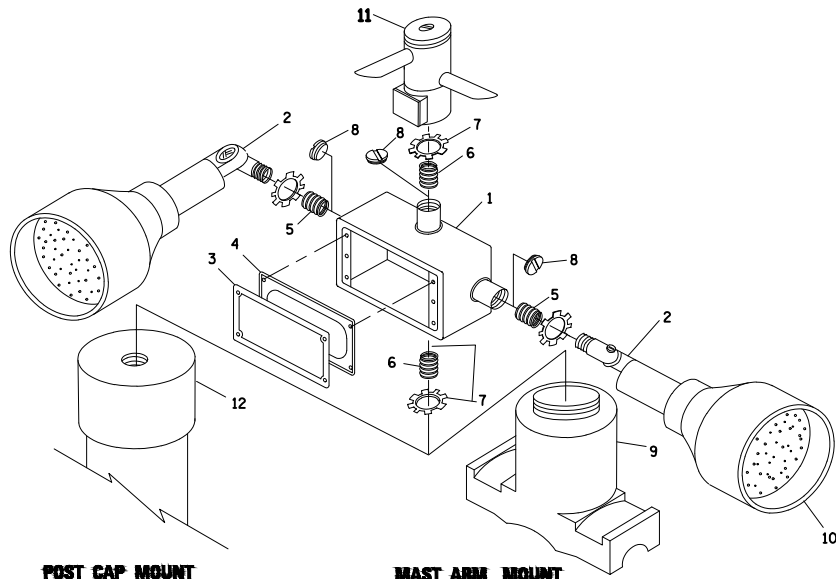
41



NOTES:

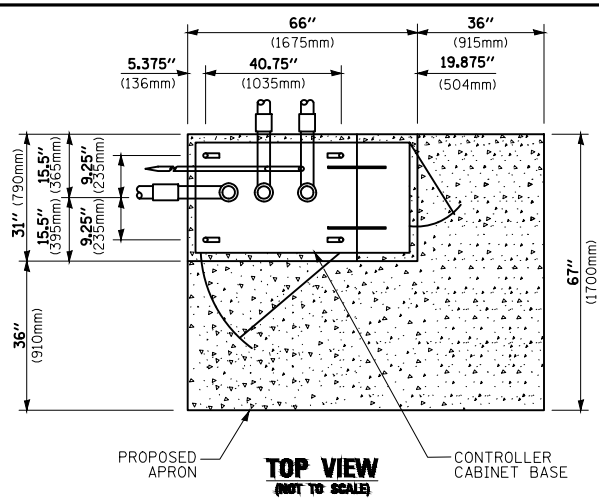
1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY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

HANDHOLE WITH MINIMUM CONDUIT DEPTH (NOT TO SCALE)

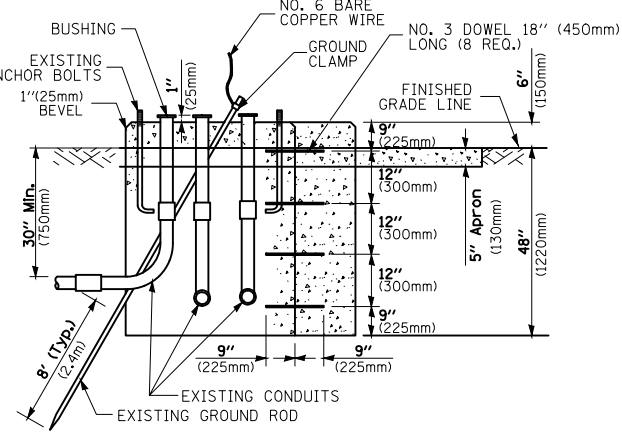


EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca\pw\work\pawdot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000" / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -



TOP VIEW (NOT TO SCALE)

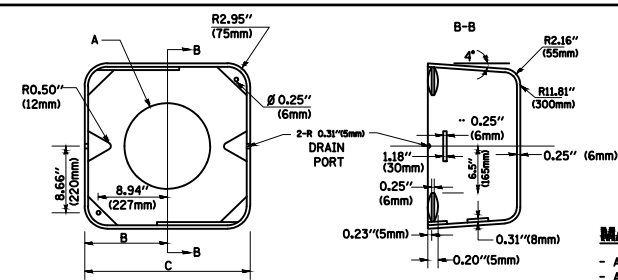


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION (NOT TO SCALE)

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

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM *1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM *2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM *9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:

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

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

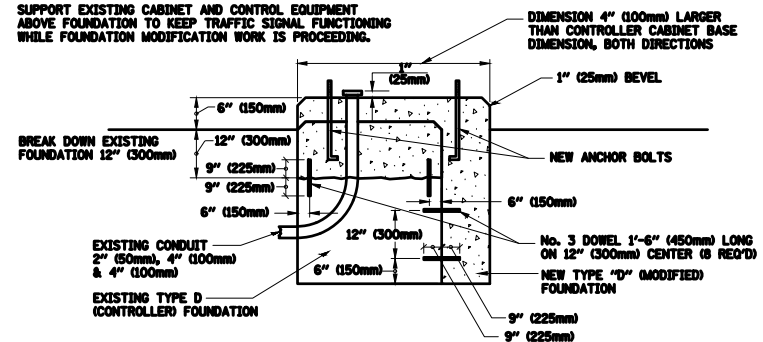
SHROUD

NOTES:

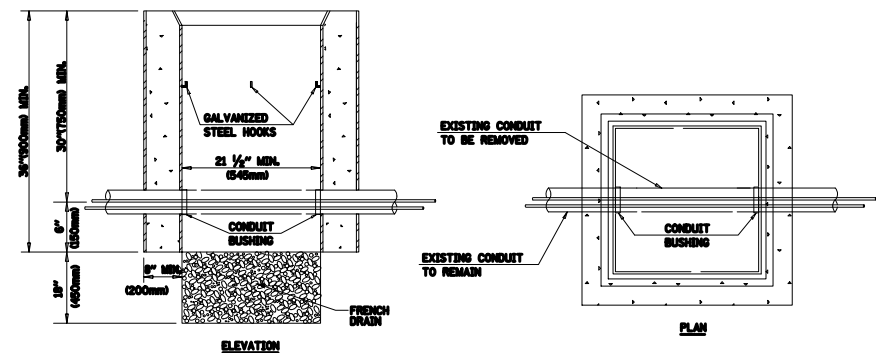
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca\pw\work\pawdot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000" / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TS-06			

CONTRACT NO.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

**5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION**

SHEET TITLE

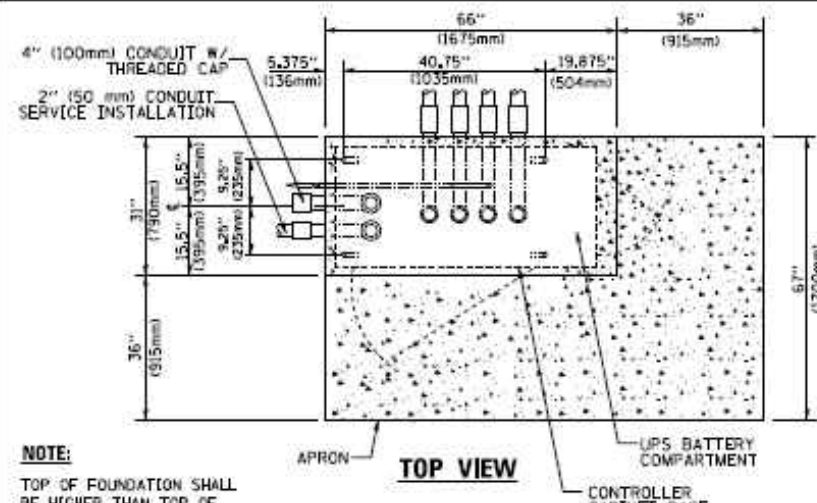
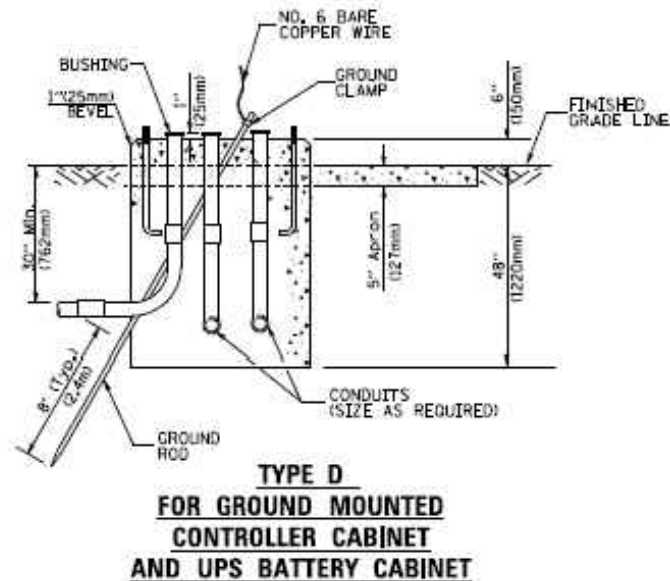
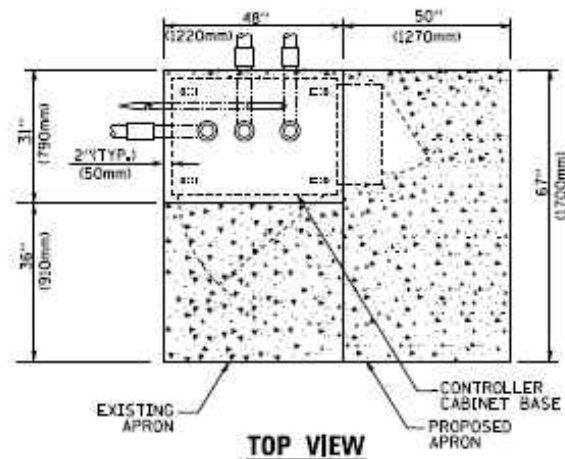
MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

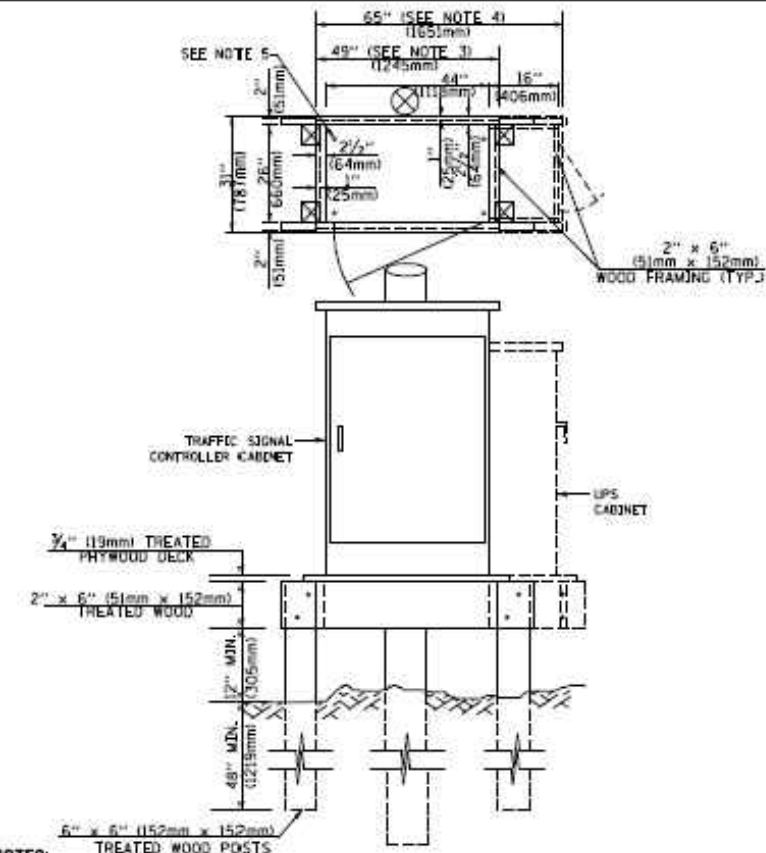
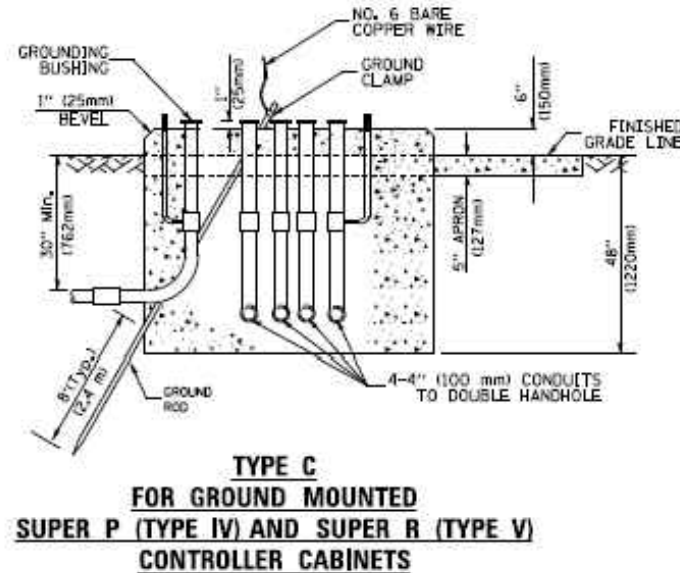
18

TOTAL SHEETS

41



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



- NOTES:**
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 25" 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 CARBIDE 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)		
IL = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM	20.0HL	6.0HL
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	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	619
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	619
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	7122
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	7122
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7122
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8125
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8125

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 (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.
2. Combination mast arm assemblies under 56 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 815001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME =	DESIGNED -	REVIEWED -	STATE OF ILLINOIS	DISTRICT ONE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Illinois Statewide Transportation Planning	Forney	DAG	DAG 1-1-14	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	TS-05			
		DRAWN -	REVIEWED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT
		CHECKED -	REVIEWED -						
		DATE -	REVIEWED -						

REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

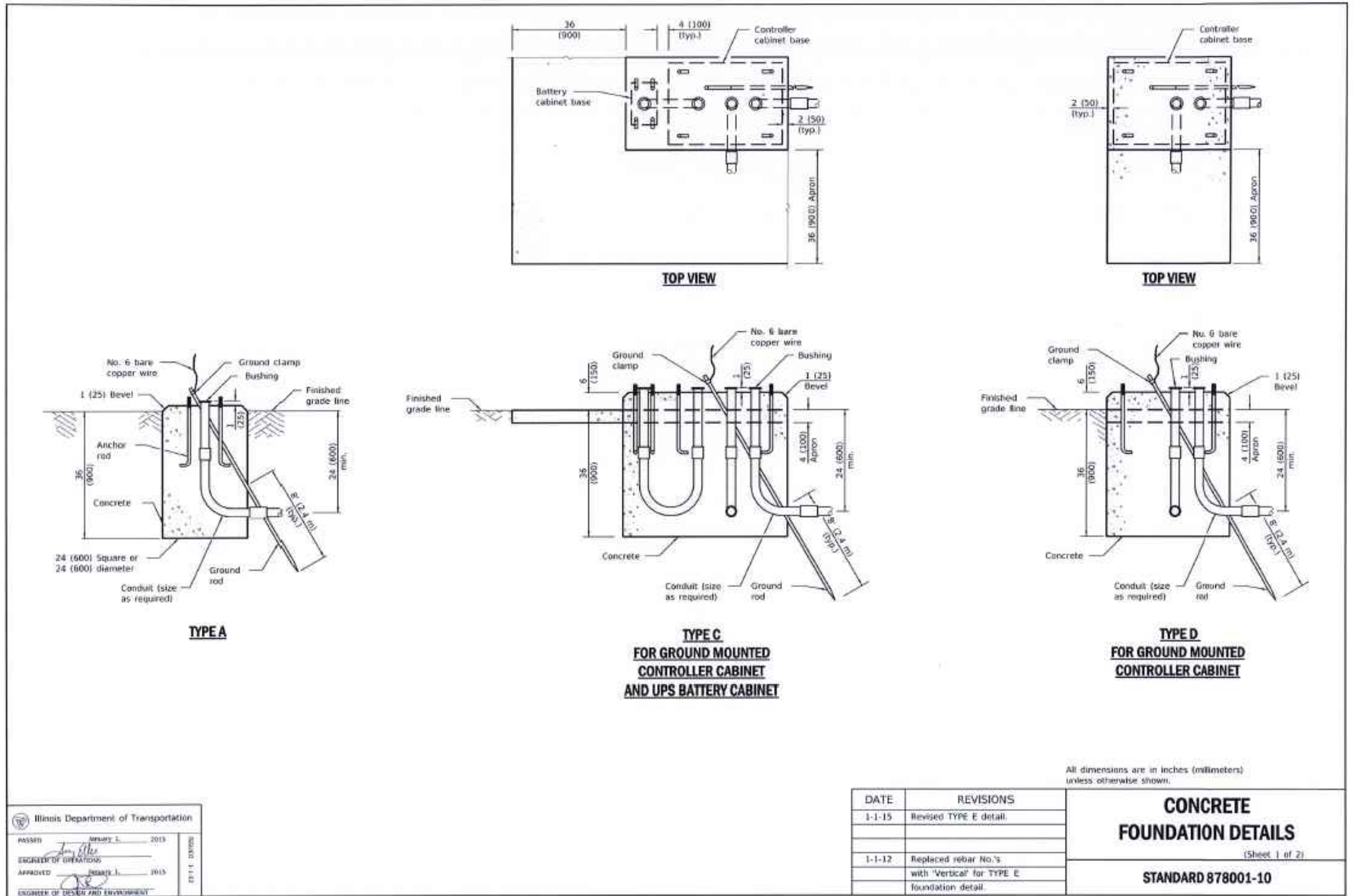
MISCELLANEOUS STANDARD DETAILS

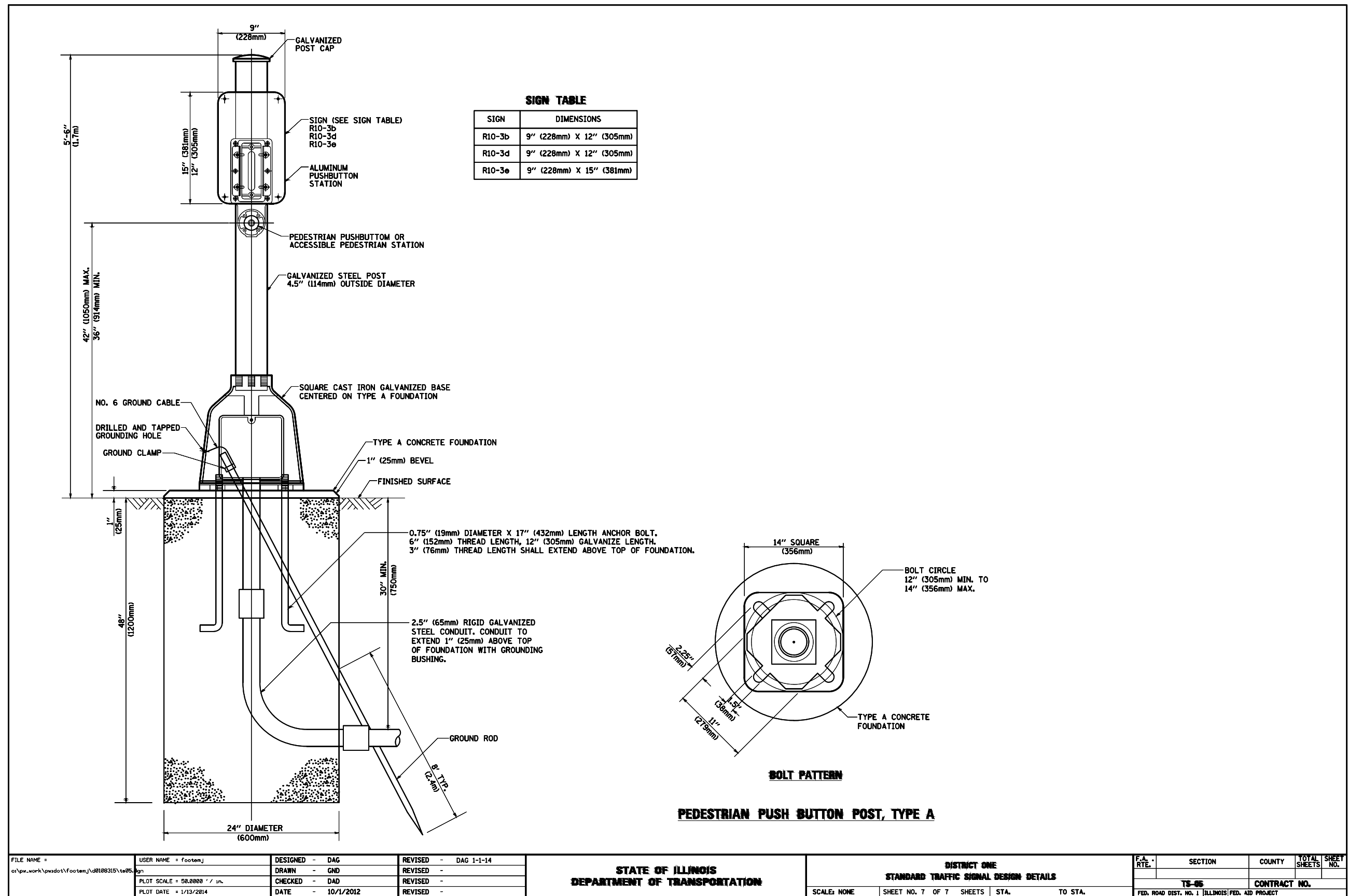
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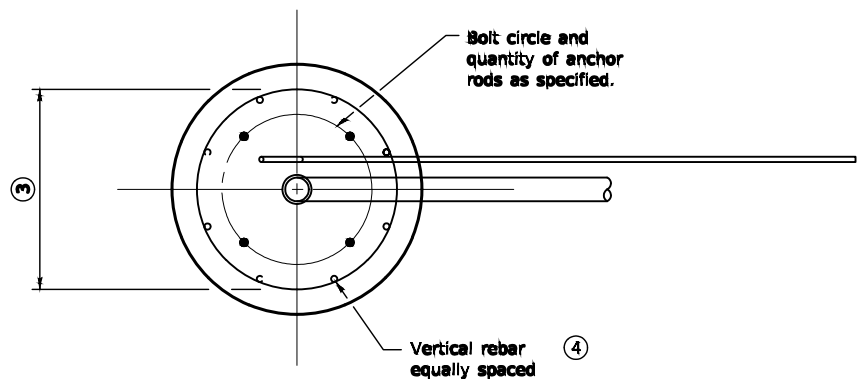
19

TOTAL SHEETS

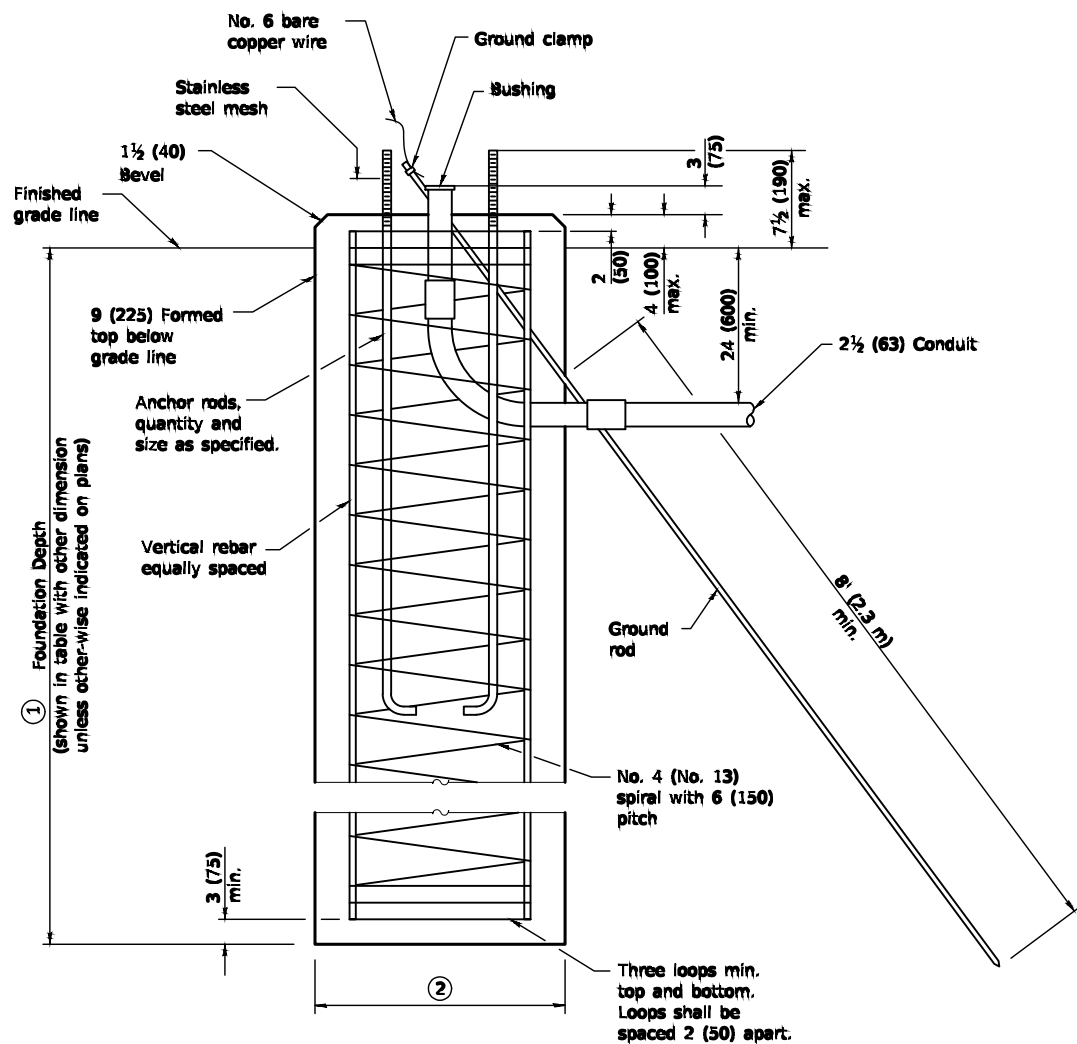
41







TOP VIEW



TYPE E

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)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36 (900)	30 (750)	12	7 (22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42 (1060)	36 (900)	16	8 (25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42 (1060)	36 (900)	16	8 (25)

* 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 (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.

Illinois Department of Transportation

PASSED January 1, 2013

ENGINEER OF OPERATIONS

APPROVED January 1, 2015

ENGINEER OF DESIGN AND ENVIRONMENT

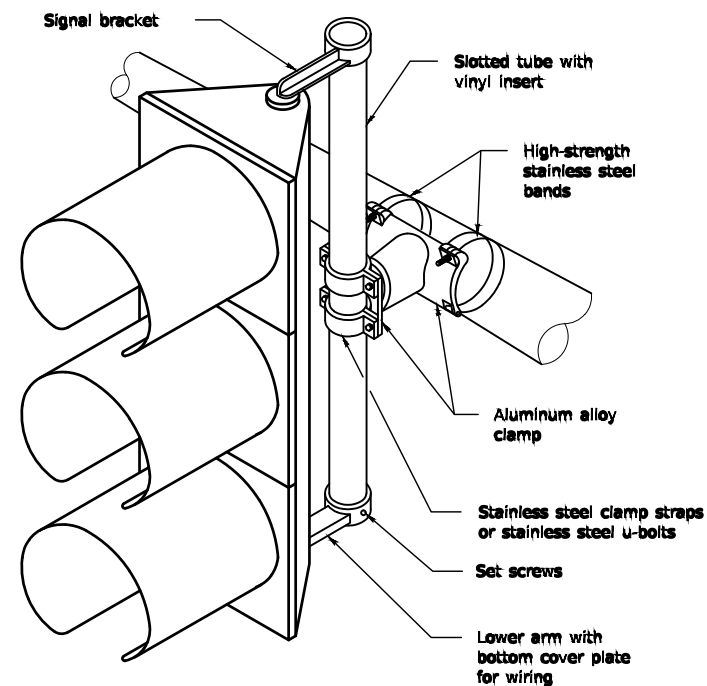
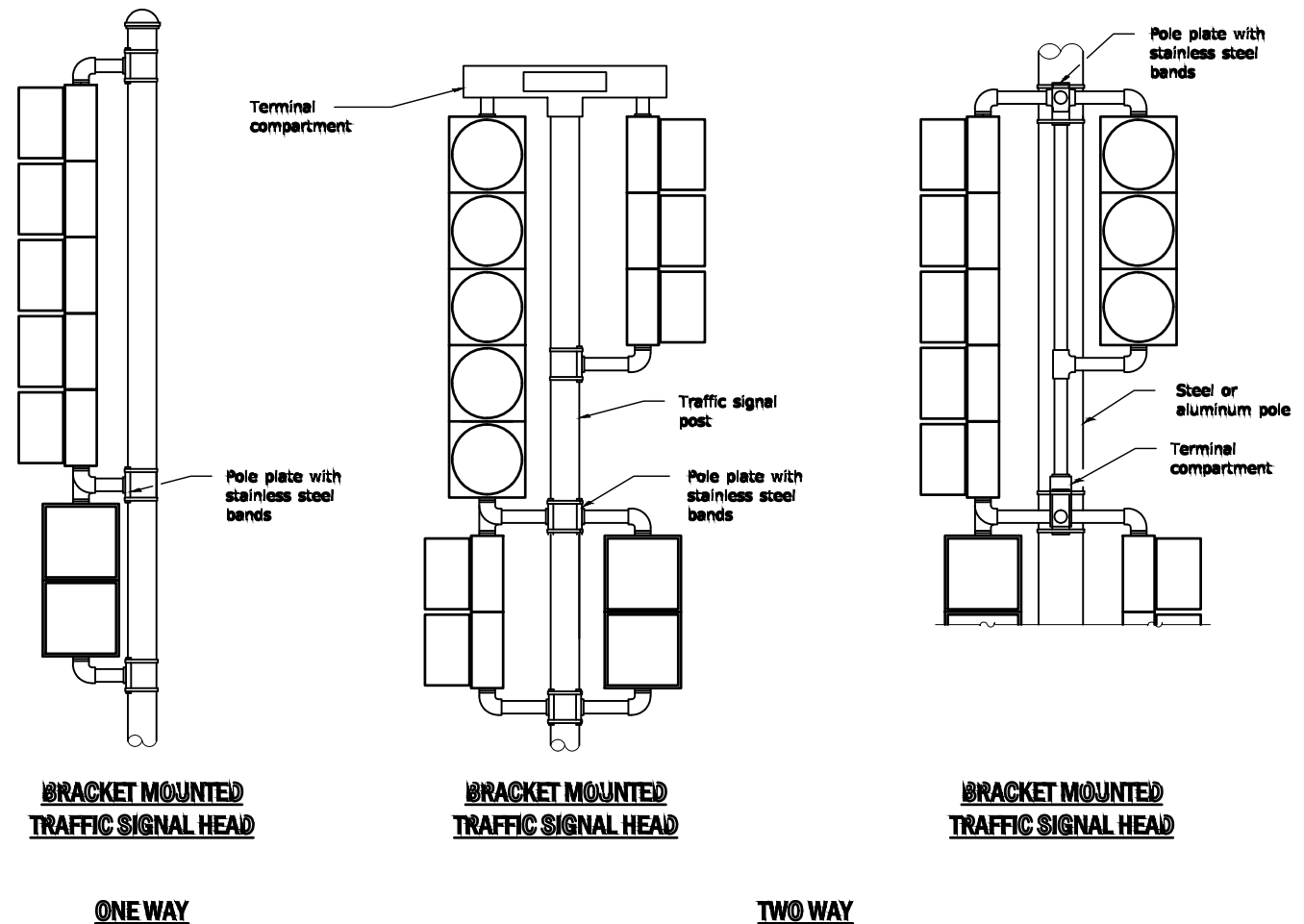
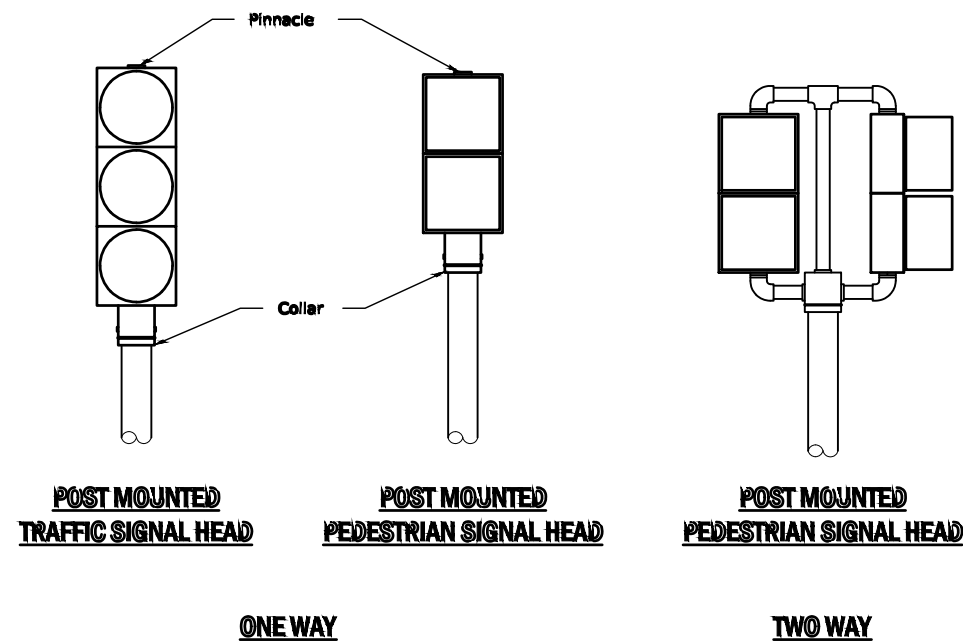
20-1-1 CHANGES

CONCRETE

FOUNDATION DETAILS

(Sheet 2 of 2)

STANDARD 878001-10



Illinois Department of Transportation

PASSED January 1, 2009

ENGINEER OF OPERATIONS

APPROVED January 1, 2009

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-02

STEEL MAST ARM MOUNTING

DATE	REVISIONS	TRAFFIC SIGNAL MOUNTING DETAILS
1-1-09	Omitted note regarding units of length.	
1-1-02	Renum. Standard 840006.	STANDARD 880006-01

REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

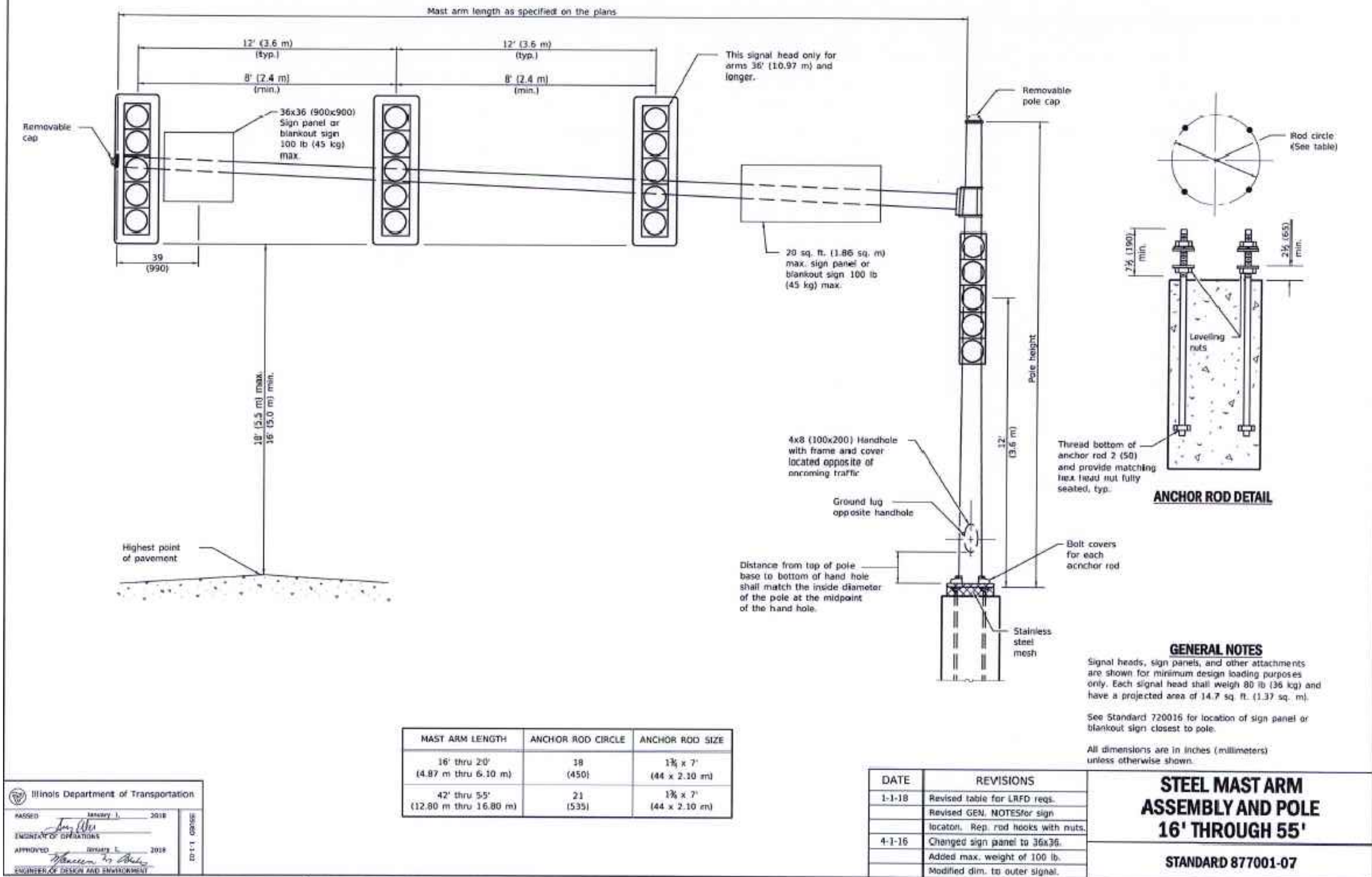
MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

23

TOTAL SHEETS

41



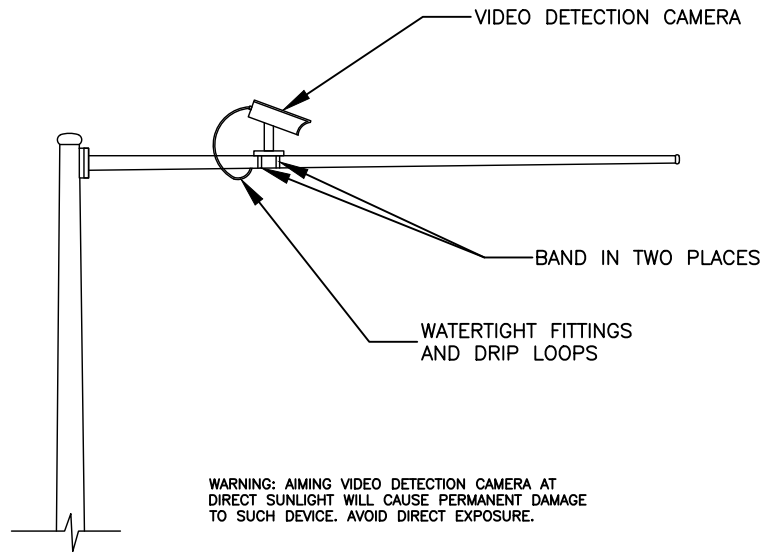
Illinois Department of Transportation
PASSED January 1, 2018
ENGINEER OF OPERATIONS
APPROVED January 1, 2018
ENGINEER OF DESIGN AND ENVIRONMENT

MAST ARM LENGTH	ANCHOR ROD CIRCLE	ANCHOR ROD SIZE
16' thru 20' (4.87 m thru 6.10 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)

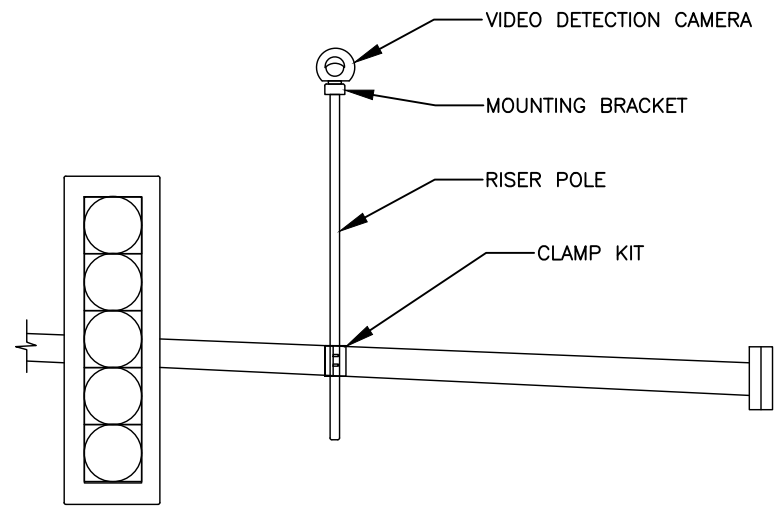
DATE	REVISIONS
1-1-18	Revised table for LRFD reqs.
	Revised GEN. NOTES for sign location, Rep. rod hooks with nuts.
4-1-16	Changed sign panel to 36x36.
	Added max. weight of 100 lb.
	Modified dim. to outer signal.

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

STANDARD 877001-07

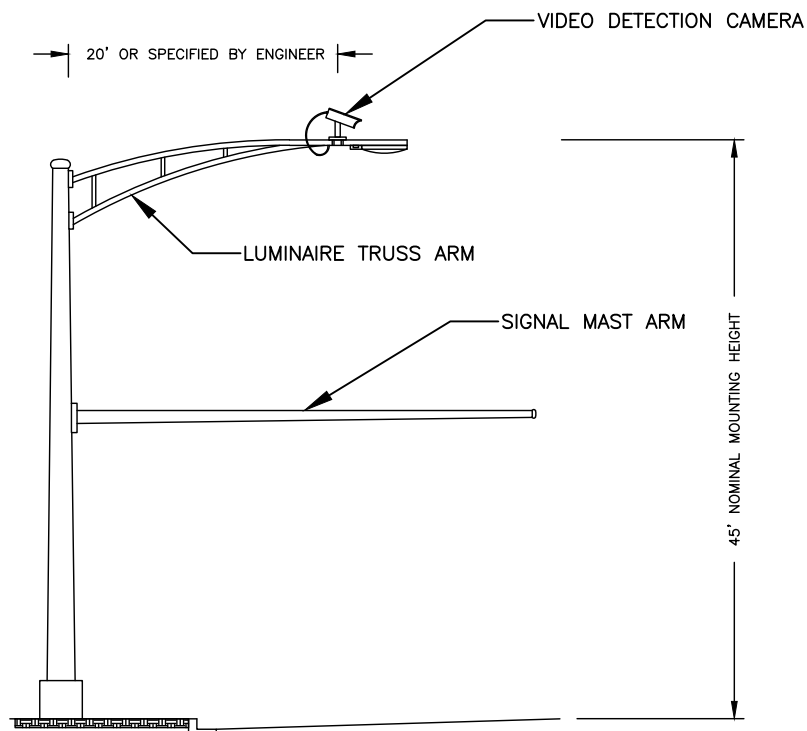


VIDEO DETECTION CAMERA
MOUNTING DETAIL
(NOT TO SCALE)

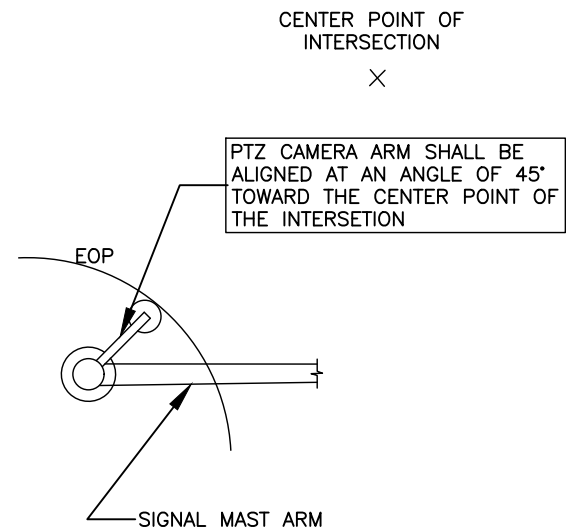


VIDEO DETECTION CAMERA
BRACKET MOUNTING DETAIL
(NOT TO SCALE)

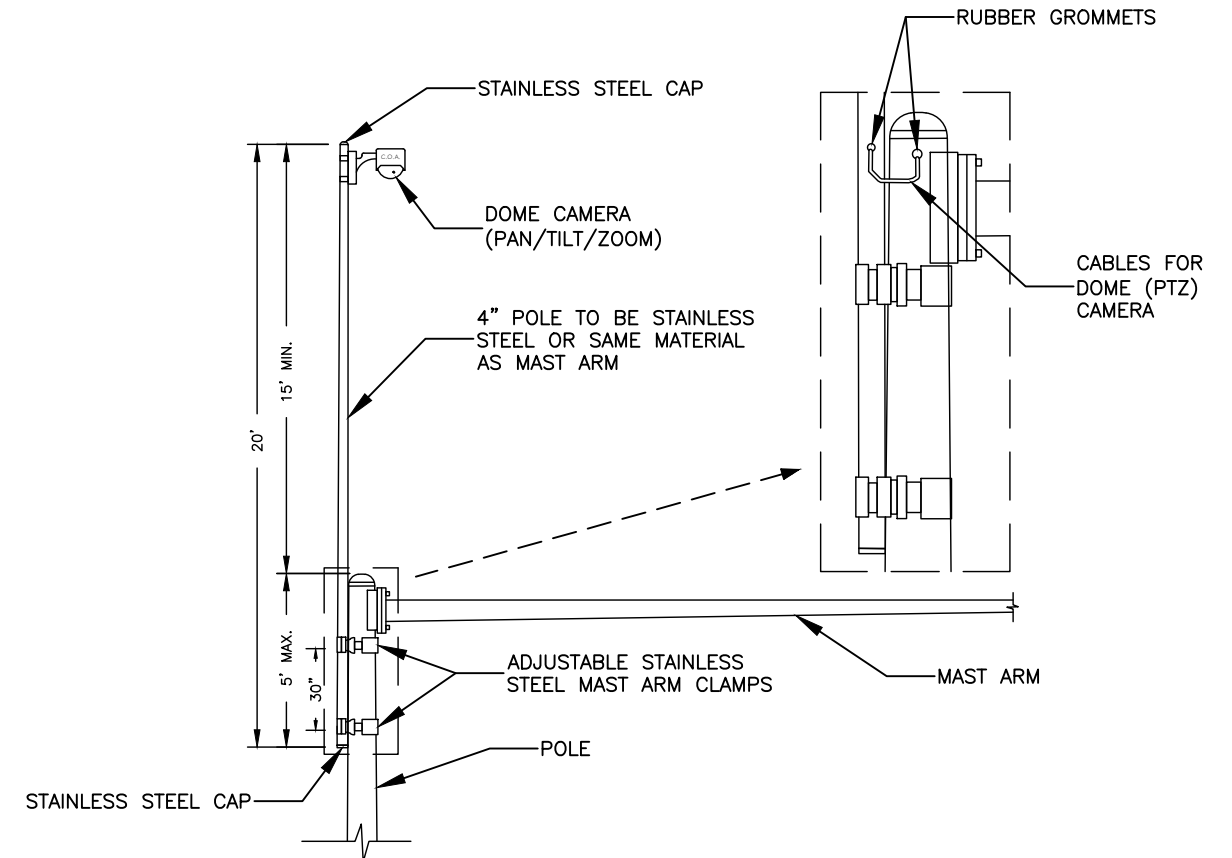
NOTE:
THIS DRAWING HAS BEEN CREATED BY
THE ENGINEERING DIVISION AT THE
CITY OF AURORA USING SIMILAR DETAILS
AS A BASIS OF DESIGN.



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



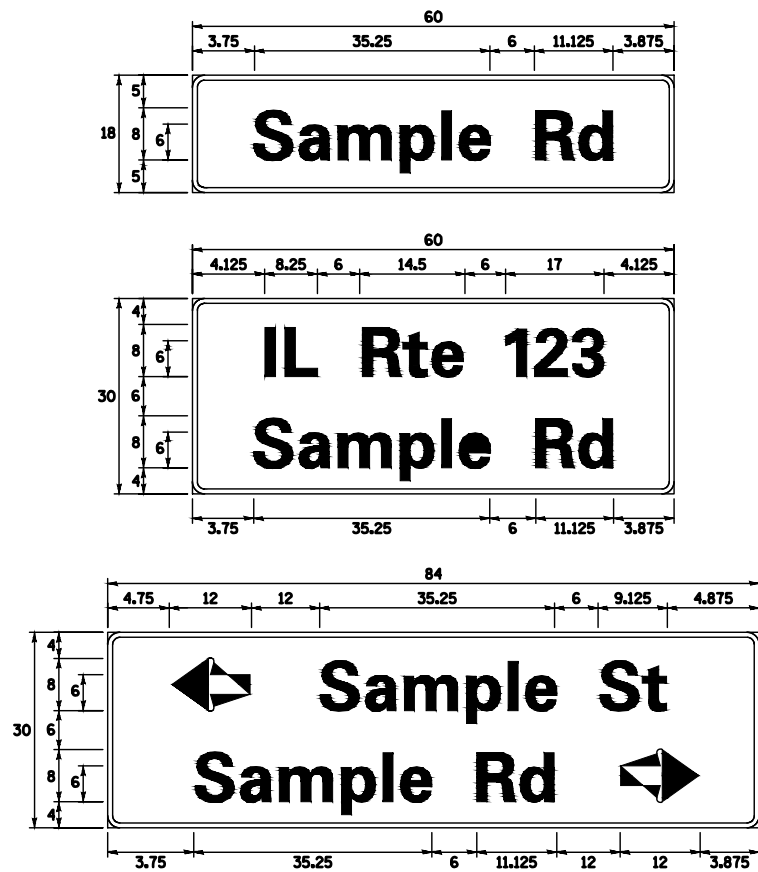
PAN TILT ZOOM (PTZ) CAMERA
MOUNTING DETAILS
(NOT TO SCALE)



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:

SIGN PANEL – TYPE 1 OR TYPE 2



ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

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	Clr	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 SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", 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 SYMBOLOLOGY 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:

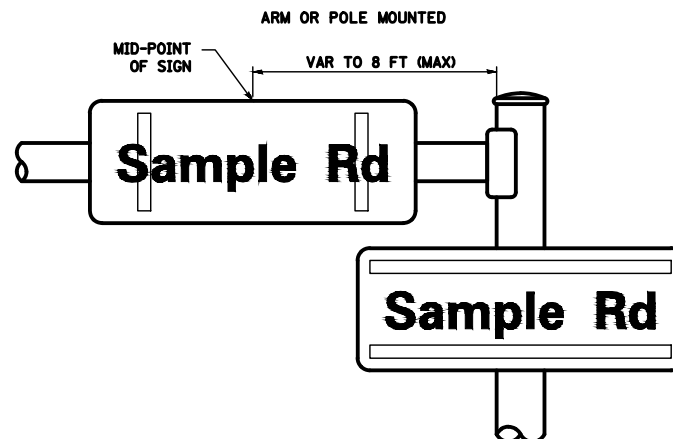
SIGN CHANNEL
SIGN SCREWS

BRACKETS

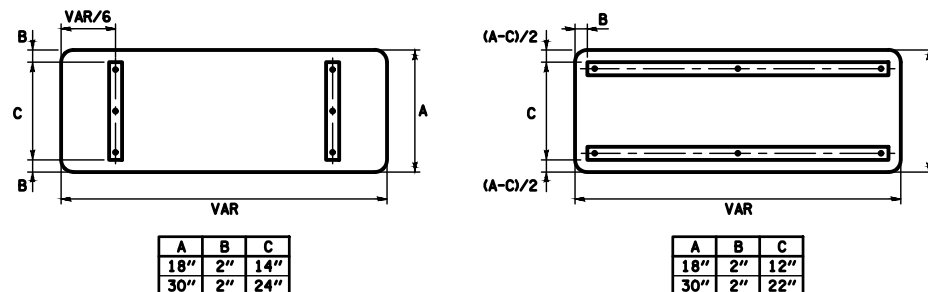
PART *HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
PART *HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

FILE NAME =	USER NAME = drsvakosgn	DESIGNED - LP/IP	REVISED - LP 07/01/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\N\LB84EBIDINTEG\allinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\District 1\CADData\CD\Sheets\ts82.dgn	BROWN CADData\CD\Sheets\ts82.dgn	REVISED -								
PLOT SCALE = 50.0000 ' / in.	CHECKED - IP	REVISED -								
PLOT DATE = 7/31/2015	DATE - 10/01/2014	REVISED -								
Default						SCALE:	SHEET	OF	SHEETS	STA. TO STA.
						TS-82 CONTRACT NO.				
						ILLINOIS FED. AID PROJECT				

REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

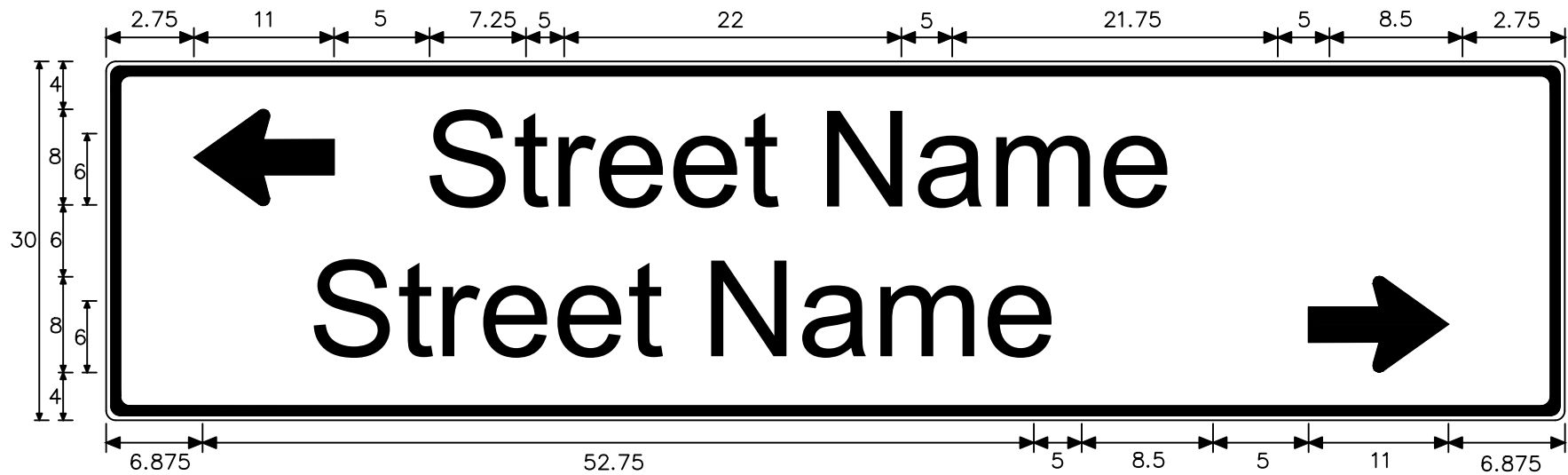
MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

26

TOTAL SHEETS

41



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.

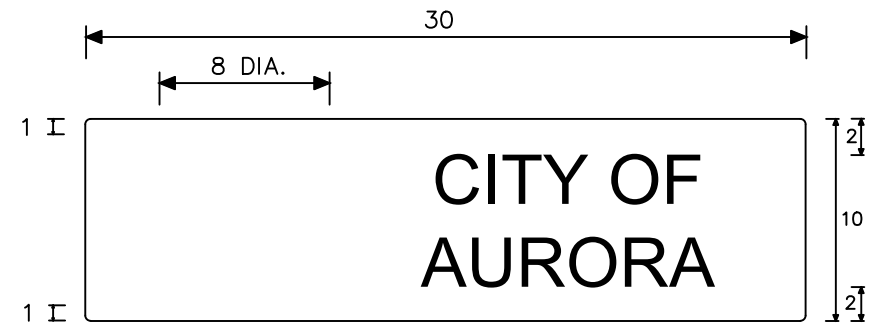
ALL DIMENSIONS PROVIDED ARE IN INCHES.

(x2)

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

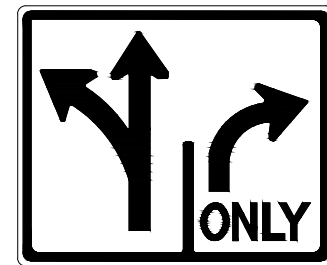
COA - 1 SIGNAGE

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

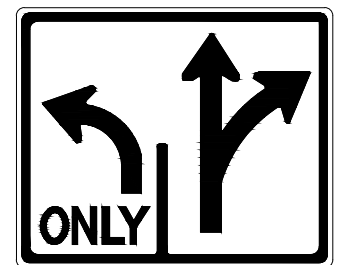


CITY OF AURORA CITY SEAL
CABINET SIGNAGE – IDENTIFICATION DECAL (x3)

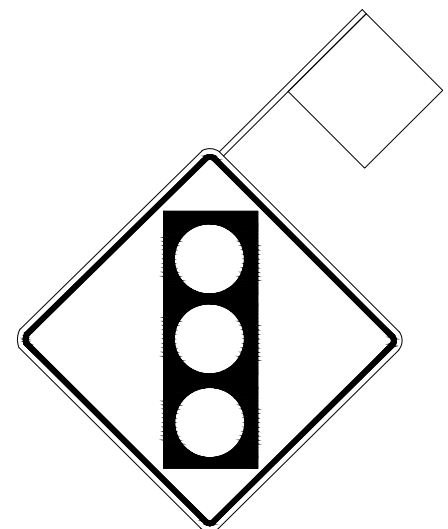
(BLACK TEXT ON WHITE REFLECTIVE BACKGROUND, CITY CREST TO BE IN COLOR, [IMAGE FILE TO BE PROVIDED BY C.O.A.] TO BE AFFIXED ON FRONT SIDE OF CABINET. IDENTIFICATION DECAL INCIDENTAL AND INCLUDED IN THE COST OF PAY ITEM "TYPE IV CABINET".)



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



CITY OF AURORA
ENGINEERING DIVISION
77 S. BROADWAY

REVISIONS:

DESIGNED BY: GIL	CHECKED BY: RG	SCALE:
DRAWN BY: GIL	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

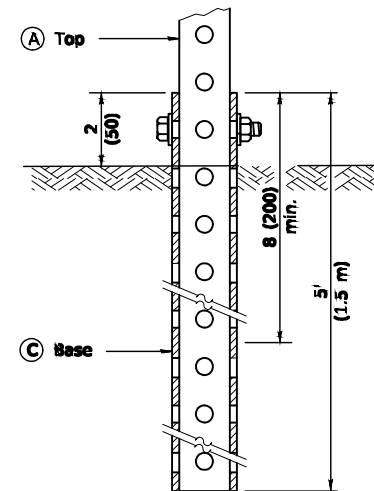
MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

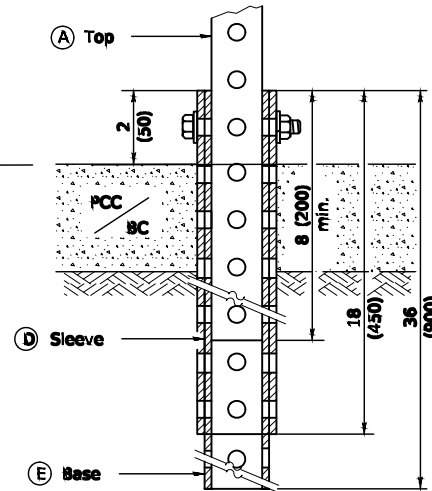
27

TOTAL SHEETS

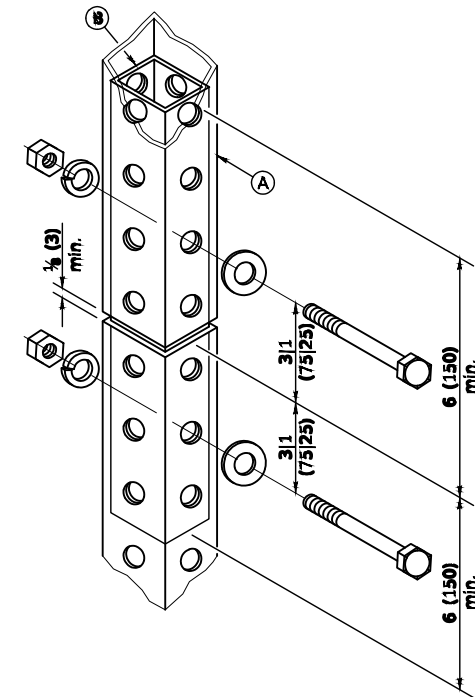
41



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.

Illinois Department of Transportation

PASSED January 1, 2000

ENGINEER OF OPERATIONS

APPROVED January 1, 2000

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 3-1-07

DATE	REVISIONS	TELESCOPING STEEL SIGN SUPPORT
1-1-09	Switched units to English (metric).	
1-1-07	New Standard. Used to be part of Standard 720006.	STANDARD 728001-01

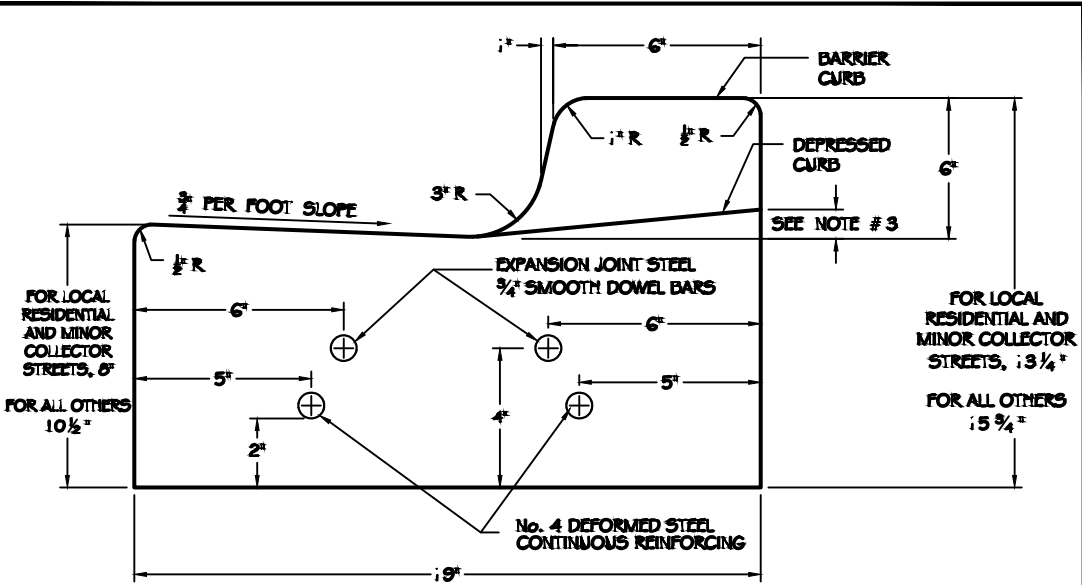
CURB AND GUTTER GENERAL NOTES:

1. Contraction joints shall be placed ten (10) feet on centers and shall be saw cut to a minimum depth of two (2) inches from front to back within twenty four (24) hours of concrete placement.
2. The concrete material, curing, protection, and placement for all curb, combination curb and gutter or, depressed curb and gutter shall meet the requirements of Articles 606,1020, 1021, 1022, and 1023 of the State of Illinois "Standard Specifications for Road and Bridge Construction", latest edition. Membrane curing and concrete sealing shall be accompanied by W.R. Meadows CS-309 Cure and Seal or approved equal like Okon S-20. If the forecast indicates temperatures below 32° F, protection methods shall be installed in accordance with the Standard Specifications for Road and Bridge Construction and shall be approved by the City Engineer.
3. The minimum longitudinal curb slope shall be 0.40%.
4. Cuts into the existing curb shall be made full depth with full expansion joints drilled at each per Exhibit II-C-12 herein.



REVISIONS	
DATE: 01/20/11	BY: jbs
02/20/13	DG

CURB AND GUTTER GENERAL NOTES		
SCALE:	CHECKED:	DRAWING NUMBER
DATE: 03/08	DRAWN: J. MOORE	EXHIBIT II-C-5

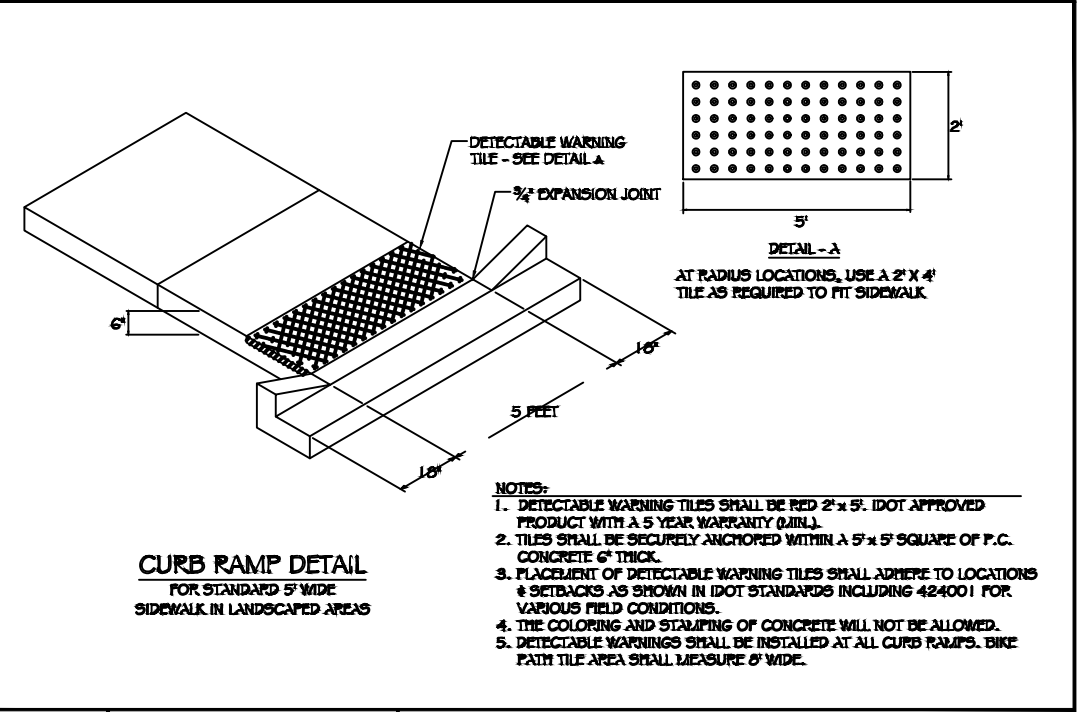


- NOTES:
1. CURB & GUTTER SHALL HAVE A LIGHT BROOM FINISH.
 2. CURB & GUTTER TO BE PLACED ON MINIMUM COMPACTED 4" CA-7 LIMESTONE BASE.
 3. EQUALS 2" AT DRIVEWAYS, 1/2" MAXIMUM AT ACCESSIBLE CURB RAMPS.



REVISIONS	
DATE: 02/20/13	BY: DG

CONCRETE CURB & GUTTER		
SCALE: NOT TO SCALE	CHECKED: DP	DRAWING NUMBER:
DATE: 1/04	DRAWN: NM	EXHIBIT II-C-4

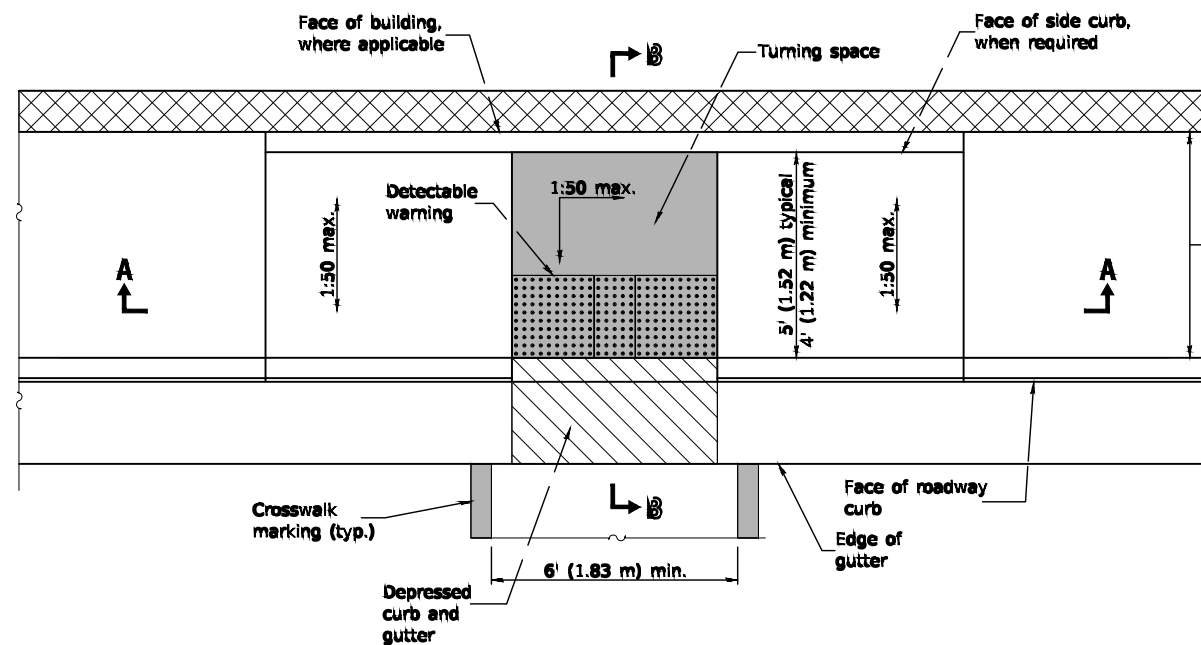


- NOTES:
1. DETECTABLE WARNING TILES SHALL BE RED 2' x 5'. IDOT APPROVED PRODUCT WITH A 5 YEAR WARRANTY (MIN.).
 2. TILES SHALL BE SECURELY ANCHORED WITHIN A 5' x 5' SQUARE OF P.C. CONCRETE 6" THICK.
 3. PLACEMENT OF DETECTABLE WARNING TILES SHALL ADHERE TO LOCATIONS & SETBACKS AS SHOWN IN IDOT STANDARDS INCLUDING 424001 FOR VARIOUS FIELD CONDITIONS.
 4. THE COLORING AND STAMPING OF CONCRETE WILL NOT BE ALLOWED.
 5. DETECTABLE WARNINGS SHALL BE INSTALLED AT ALL CURB RAMPS. BIKE PATH TILE AREA SHALL MEASURE 8' WIDE.

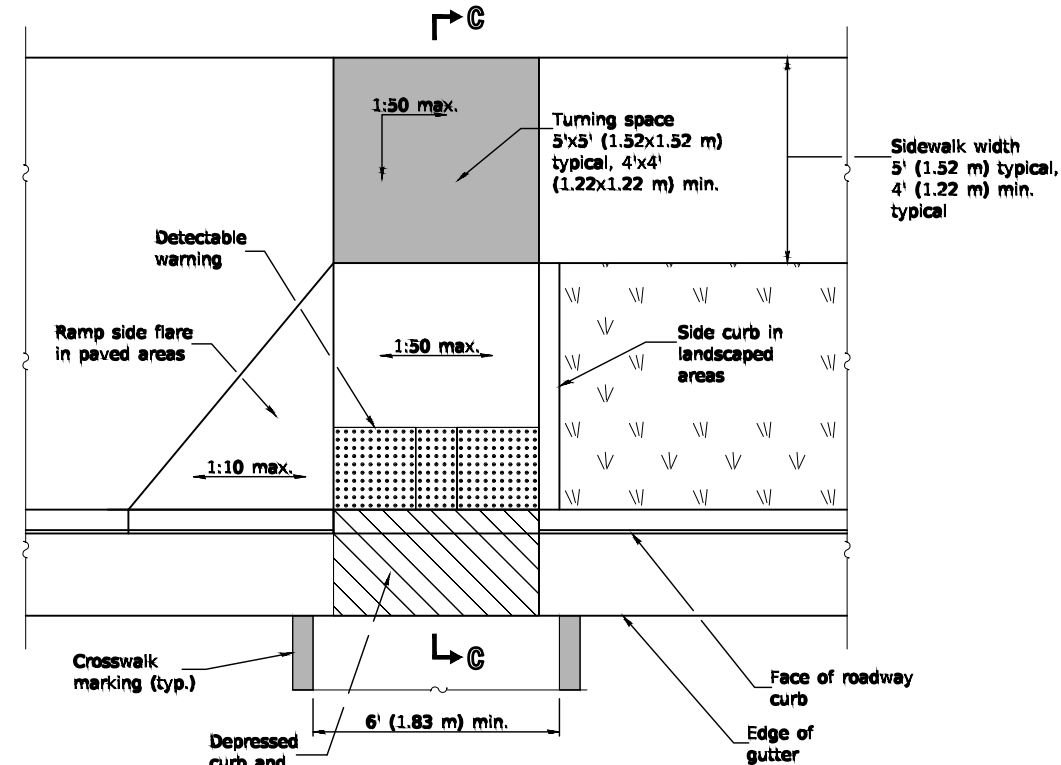


REVISIONS	
DATE: 12/20/10	BY: jbs
02-22-13	DG

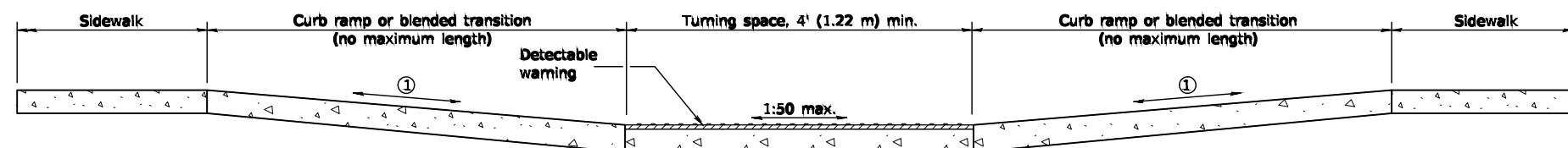
CURB RAMP DETAIL		
SCALE: NOT TO SCALE	CHECKED: CL	DRAWING NUMBER:
DATE: 1/04	DRAWN: DG	EXHIBIT II-C-6



PARALLEL MID-BLOCK CURB RAMP

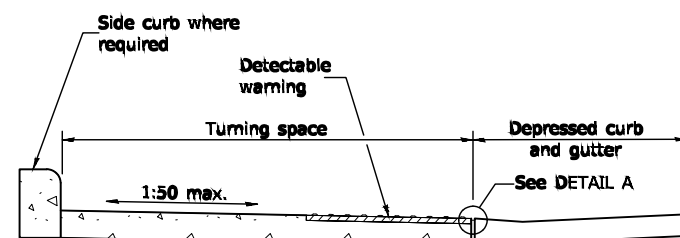


PERPENDICULAR MID-BLOCK CURB RAMP

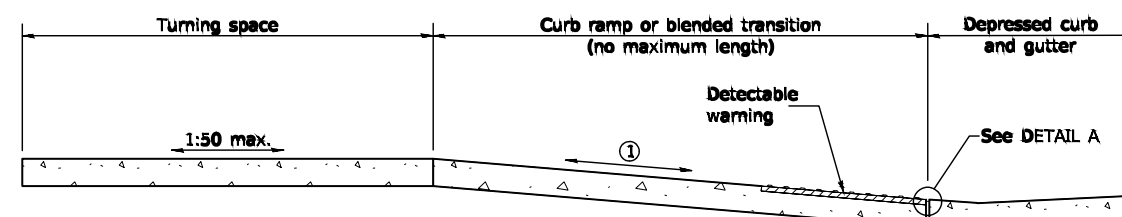


SECTION A-A

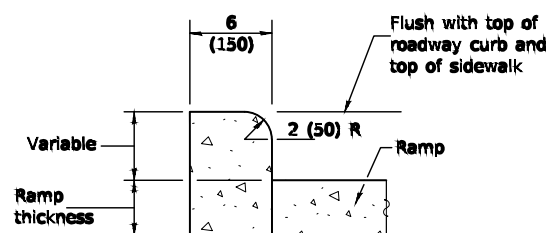
- ① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.



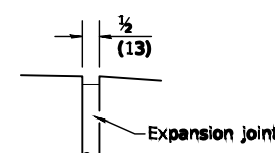
SECTION B-B



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 the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 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.

Illinois Department of Transportation	
PASSED January 1, 2019 ENGINEER OF POLICY AND PROCEDURES	ISSUED 1-1-12
APPROVED January 1, 2019 ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-19	Removed upper landing, added blended transitions and detectable warning tolerances.
1-1-18	Omitted diagonal slope at turning spaces and upper landings.

MID-BLOCK CURB RAMPs FOR SIDEWALKS

STANDARD 424016-05

REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

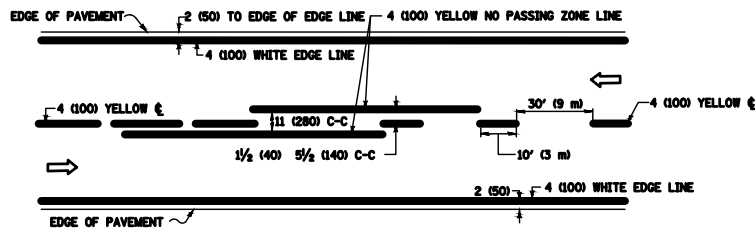
MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

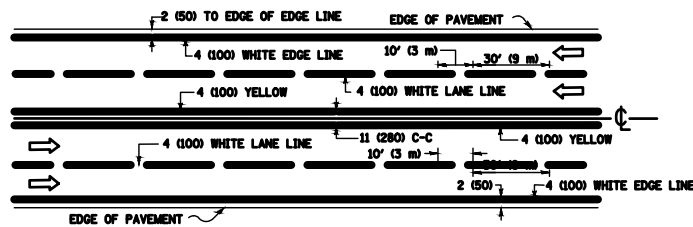
30

TOTAL SHEETS

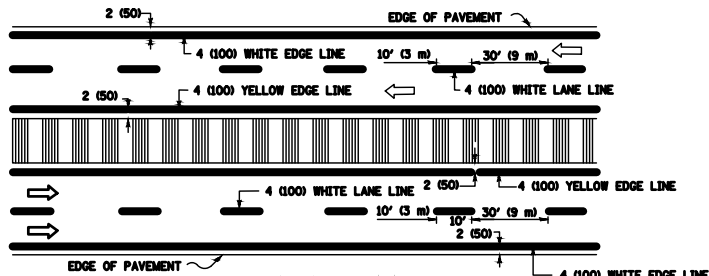
41



2-LANE ROADWAY

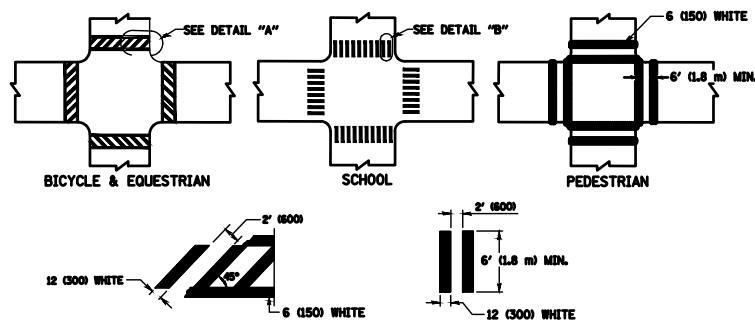


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

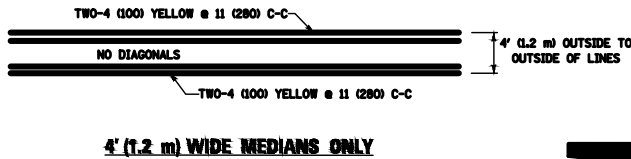


DETAIL "A"

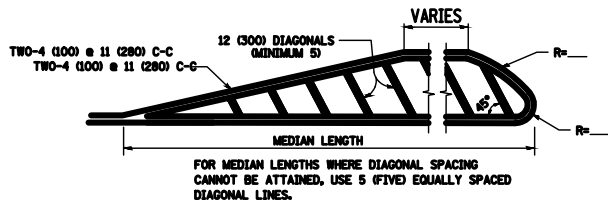
DETAIL "B"

TYPICAL CROSSWALK MARKING

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

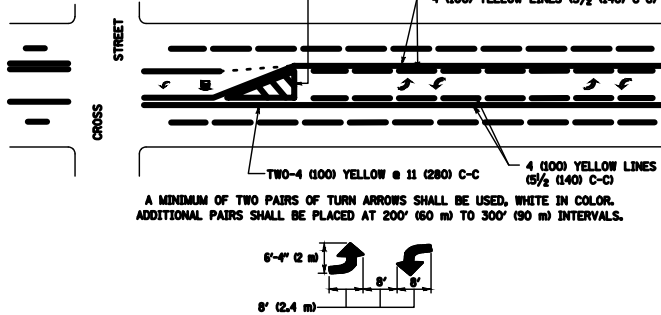


4' (1.2 m) WIDE MEDIANS ONLY



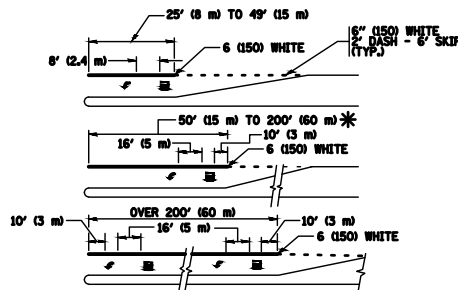
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C MORE THAN 45MPH (70 km/h)

MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

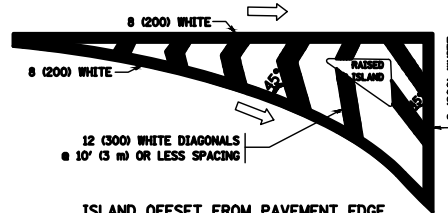
TYPICAL PAINTED MEDIAN MARKING



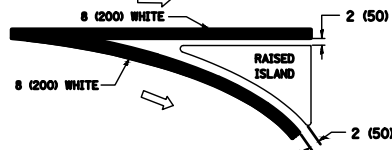
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

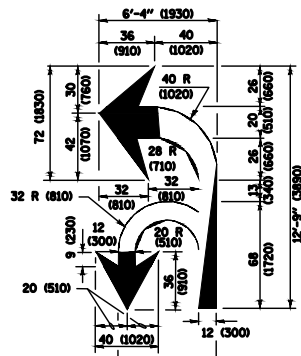


ISLAND OFFSET FROM PAVEMENT EDGE

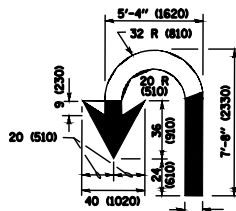


ISLAND AT PAVEMENT EDGE

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)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100)	SKIP-DASH	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	5 (125) ON FREEWAYS	SKIP-DASH	WHITE	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 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BICYCLE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL))	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID	WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW 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)) 30' (9 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C OVER 45MPH (70 km/h)
RAILROAD CROSSING	24 (600) TRANSVERSE LINES, "RR" 15' (4.5 m) @ 45° LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "X"=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.

FILE NAME =	USER NAME = jeyao	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
W:\diststd\22x34\vol13.dgn		DRAWN -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 50.000' / 1"	CHECKED -	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 6/23/2017	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 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TE-78				

CITY OF AURORA
ENGINEERING DIVISION
77 S. BROADWAY

REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

31

TOTAL SHEETS

41

TYPICAL BIKE LANE SYMBOLS
DRAWING #28

NOTE:
1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

DRAWING #29

DRAWING #30

DRAWING #31

DRAWING #32

DRAWING #33

DRAWING #34

DRAWING #35

NOTE:
ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

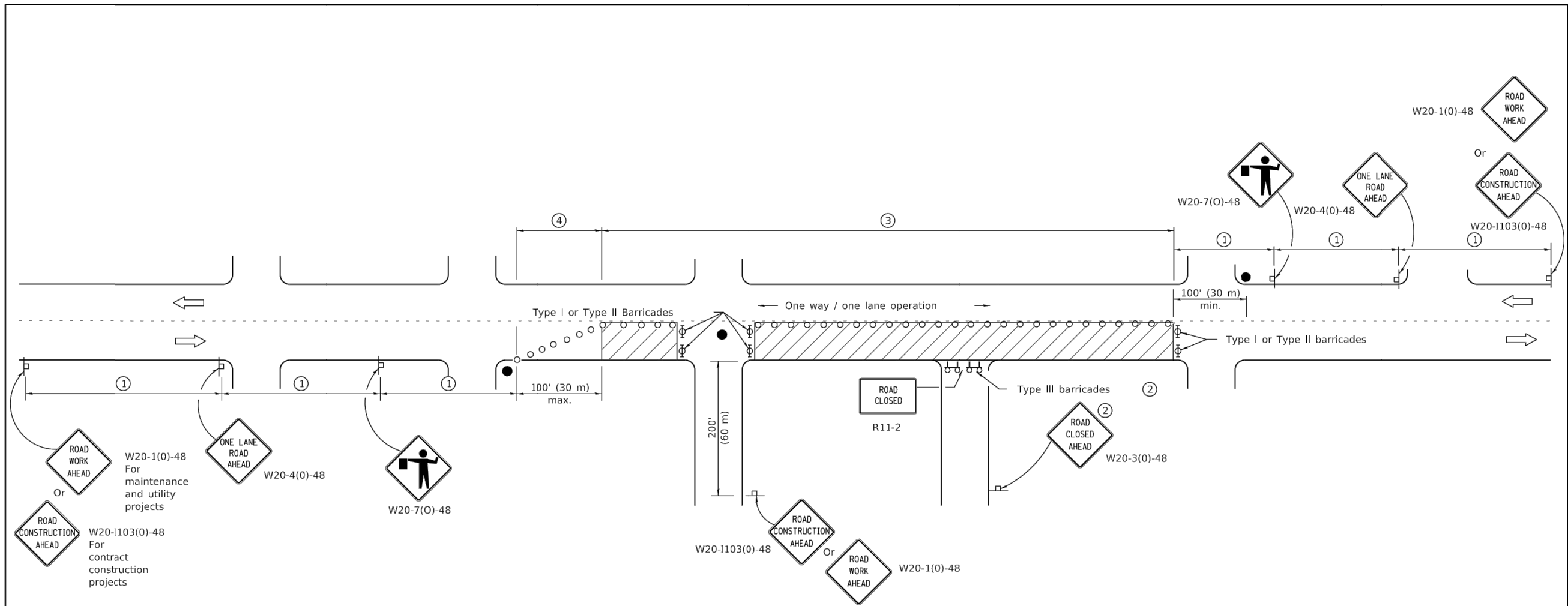
FILE NAME =	USER NAME = drvakosgn	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
ca\pw_work\pwwdot\drvakosgn\0108315\td24.dgn		DRAWN -	REVISED - K. ENG 02-28-12
PLOT SCALE = 50.000 / in.		CHECKED -	REVISED -
PLOT DATE = 3/29/2012		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. TC-24 CONTRACT NO. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



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.

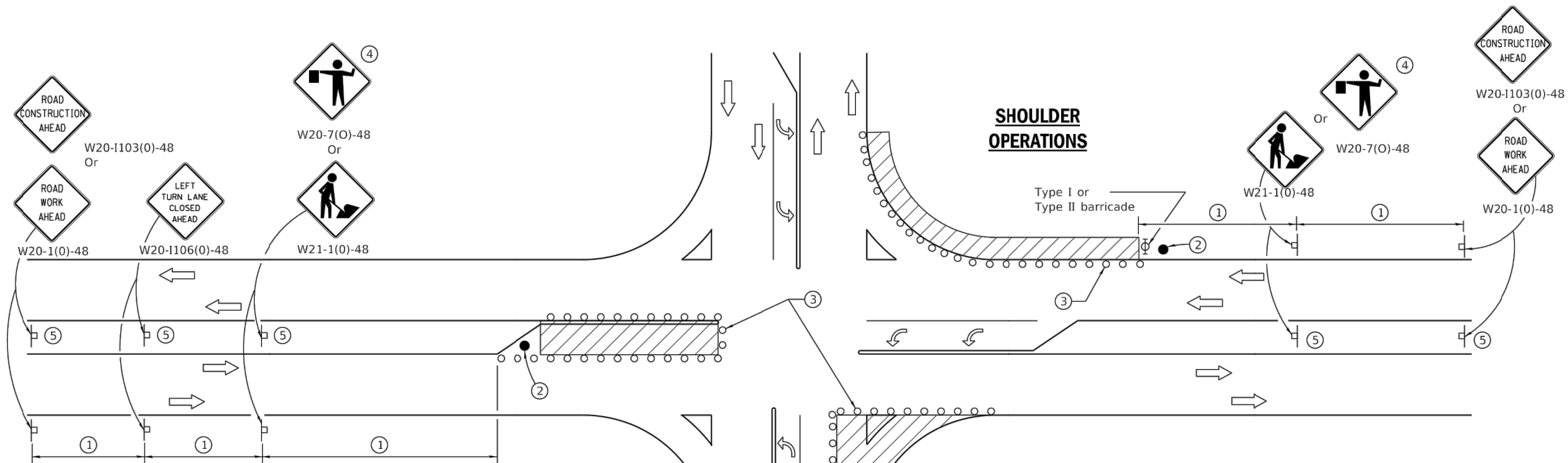
Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
1-1-11	Revised flagger sign.	
1-1-09	Switched units to English (metric).	
	Corrected sign No.'s.	
		STANDARD 701501-06



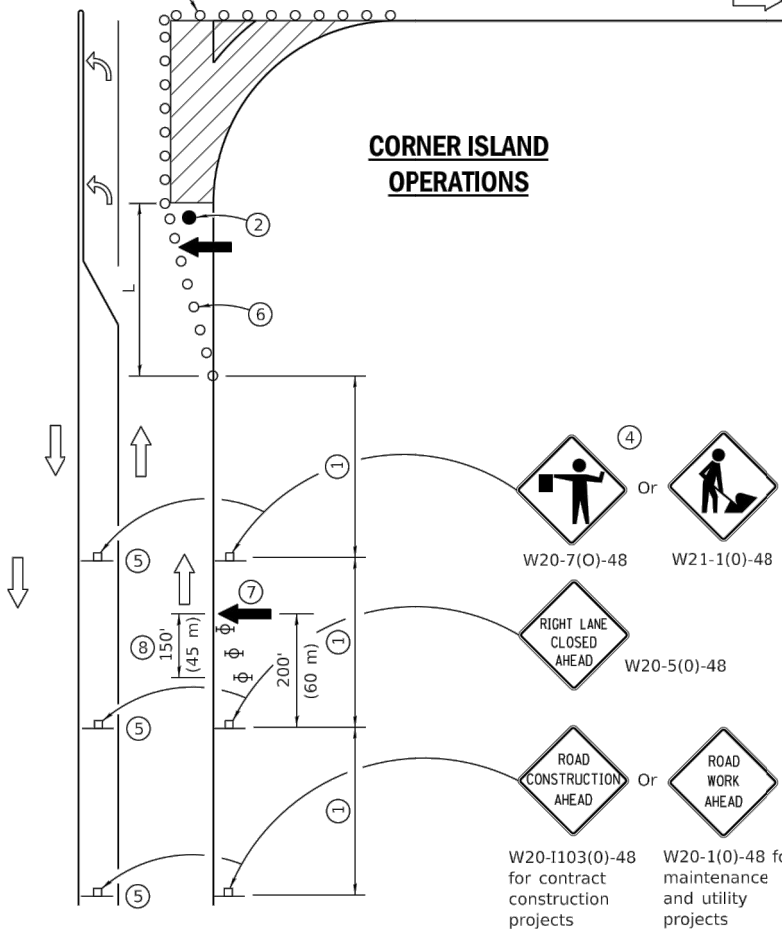
SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

- LEFT TURN LANE OR CENTER MEDIAN OPERATIONS**
- Refer to SIGN SPACING TABLE for distance.
 - Required for speed > 40 mph.
 - 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.
 - Use flagger sign only when flagger is present.
 - Omit this sign when median is less than 10' (3 m) or for bi-directional turn lanes.
 - Cones, drums or barricades at 20' (6 m) centers in taper.
 - Advanced arrow board required for speeds > 45 mph.
 - Three Type II barricades, drums or vertical barricades at 50' (15 m) centers.

SYMBOLS

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

CORNER ISLAND OPERATIONS



GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement during shoulder operations or where construction requires lane closures in an urban area.

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

PASSED April 1, 2016
ENGINEER OF SAFETY ENGINEERING

APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
4-1-16	Corrected sign number for LEFT TURN LANE CLOSED AHEAD.
1-1-14	Added devices at arrow board upstream from taper.
	Rev. workers sign number.

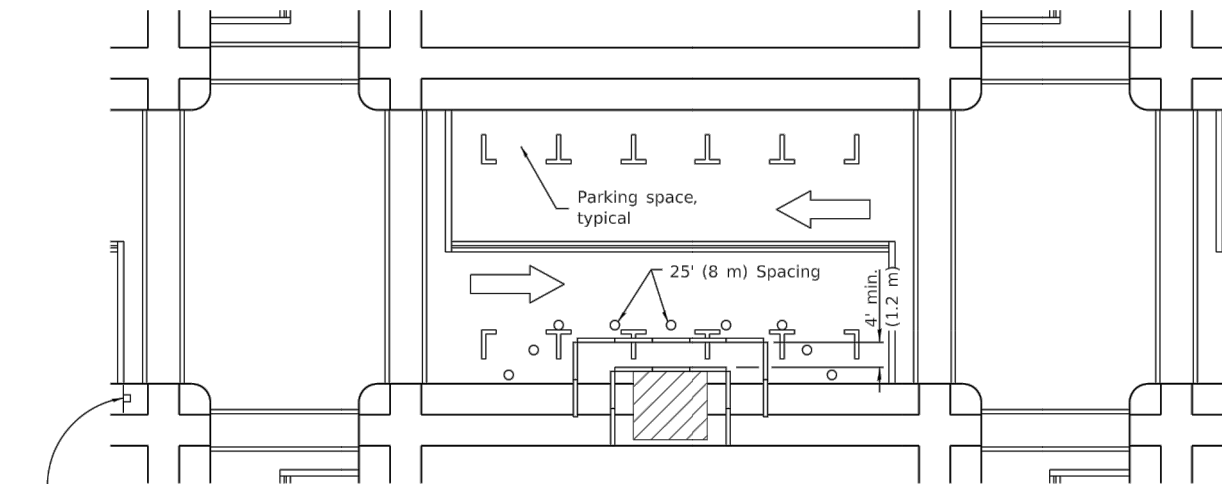
URBAN LANE CLOSURE, MULTILANE INTERSECTION

STANDARD 701701-10

REVISIONS:			PROJECT
DESIGNED BY: RA	CHECKED BY: RG	SCALE:	5TH AVE-MCCOY DR-KAUTZ RD TRAFFIC SIGNAL INSTALLATION
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021	

SHEET TITLE	MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER	34
TOTAL SHEETS	41



① ROAD
CONSTRUCTION
AHEAD

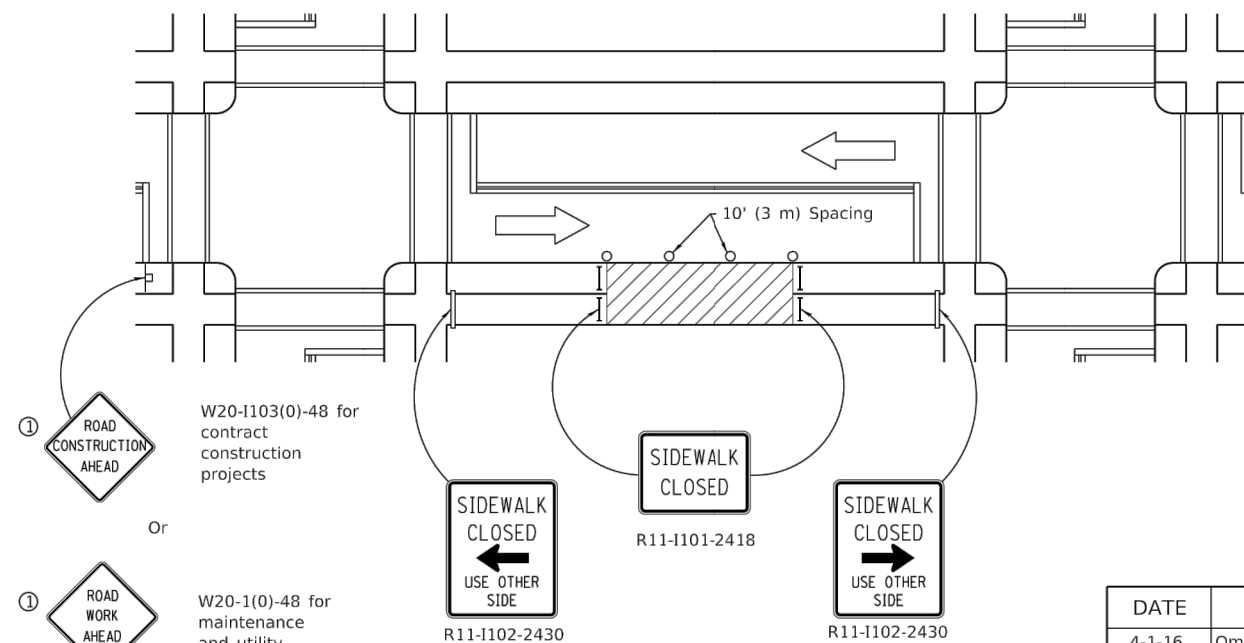
W20-1103(0)-48 for
contract
construction
projects

Or

① ROAD
WORK
AHEAD

W20-1(0)-48 for
maintenance
and utility
projects

SIDEWALK DIVERSION



SIDEWALK CLOSURE

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
ENGINEER OF SAFETY ENGINEERING	
APPROVED	April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT	

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.

DATE	REVISIONS	SIDEWALK, CORNER OR CROSSWALK CLOSURE (Sheet 1 of 2)
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.	
		STANDARD 701801-06

REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

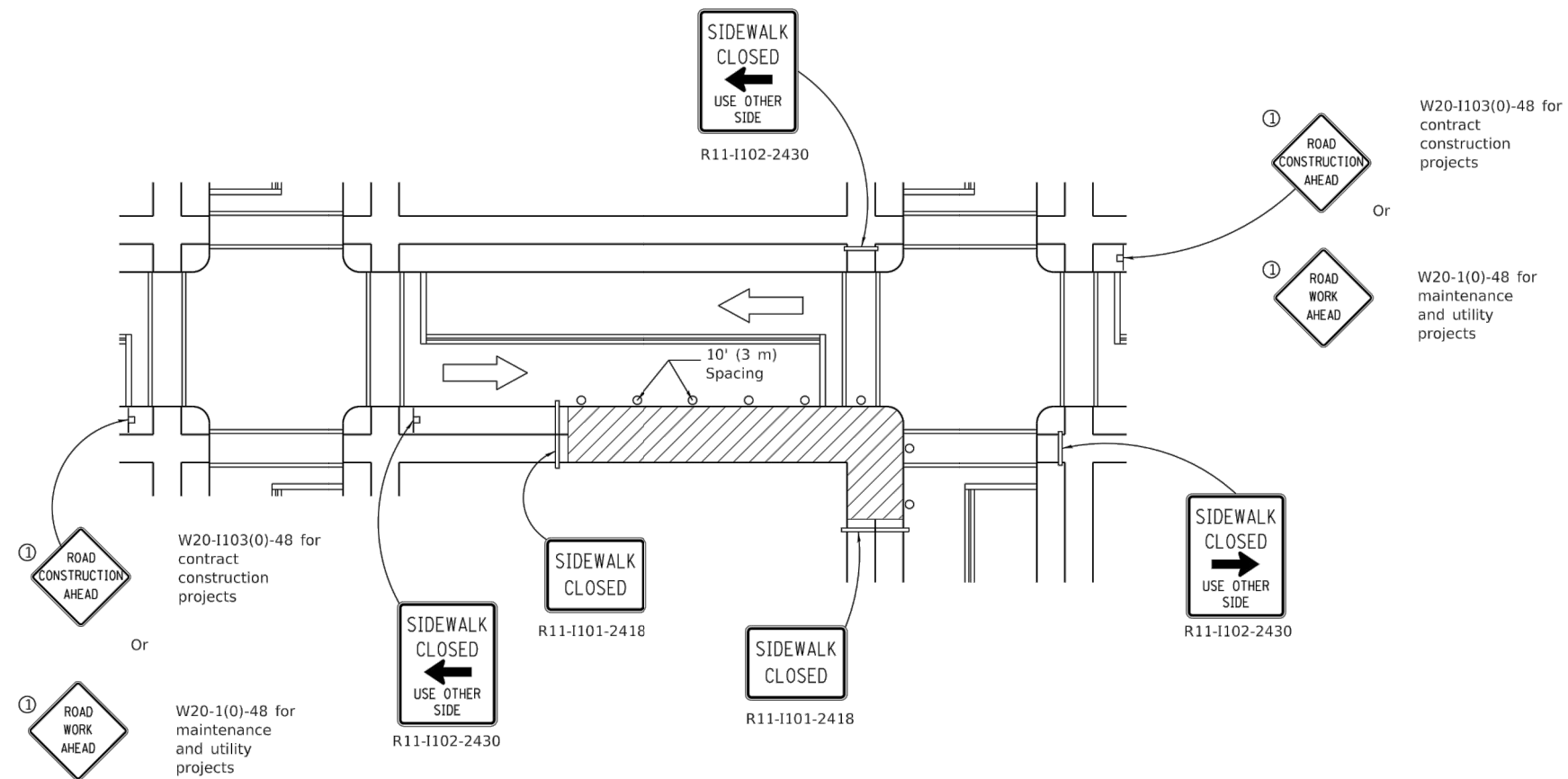
MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

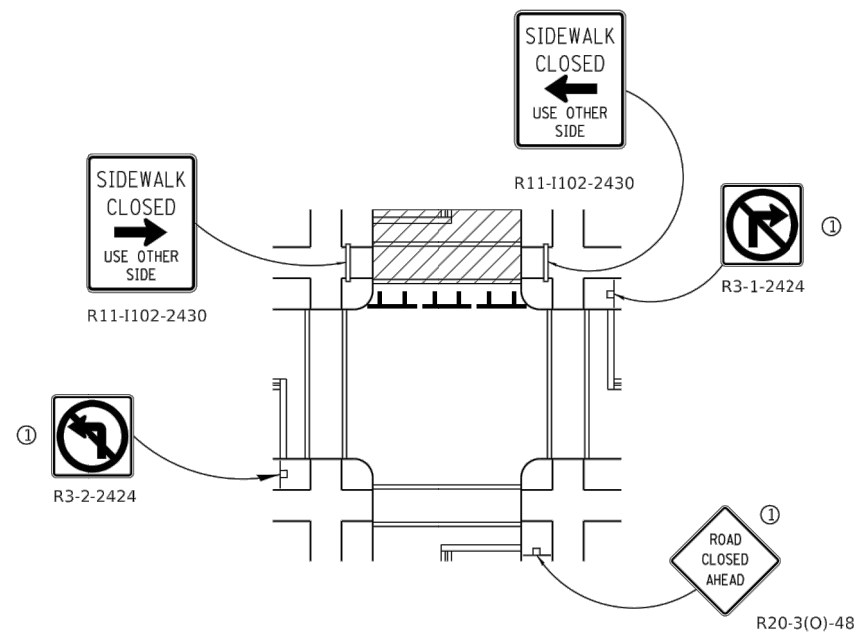
36

TOTAL SHEETS

41



CORNER CLOSURE



CROSSWALK CLOSURE

**SIDEWALK, CORNER OR
CROSSWALK CLOSURE**

(Sheet 2 of 2)

STANDARD 701801-06

Illinois Department of Transportation	
PASSED <i>[Signature]</i> April 1, 2016	ISSUED 1-1-97
ENGINEER OF SAFETY ENGINEERING	
APPROVED <i>[Signature]</i> April 1, 2016	
ENGINEER OF DESIGN AND ENVIRONMENT	

**CITY OF AURORA
ENGINEERING DIVISION
77 S. BROADWAY**

REVISIONS:

DESIGNED BY: RA	CHECKED BY: RG	SCALE:
DRAWN BY: GIL/AH	APPROVED BY: RG	DATE: 7/2021

PROJECT

**5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION**

SHEET TITLE

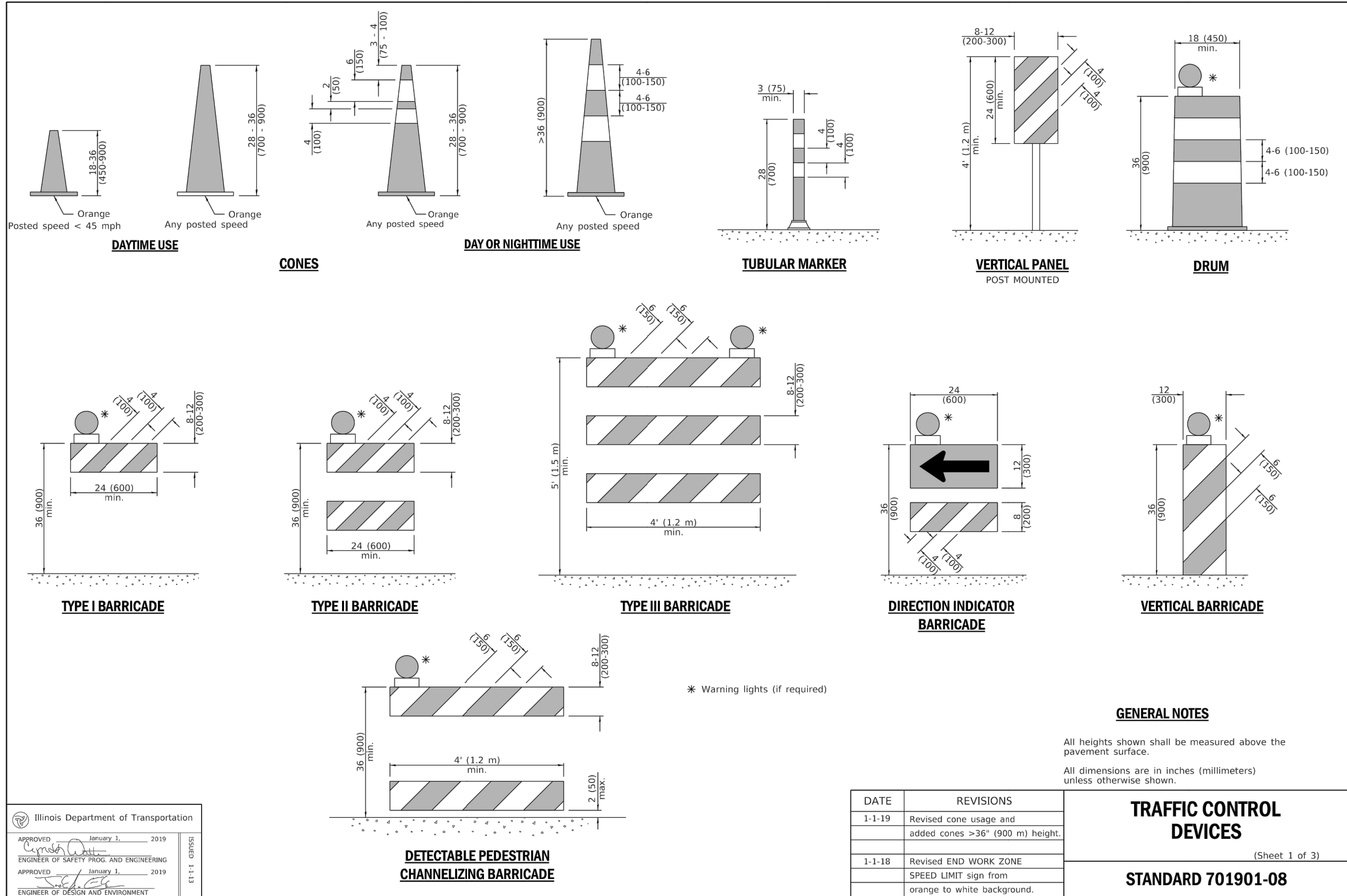
MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

37

TOTAL SHEETS

41

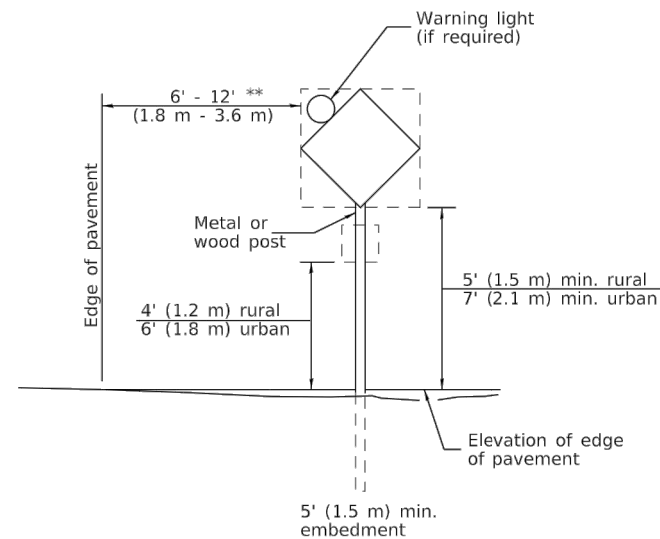


Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

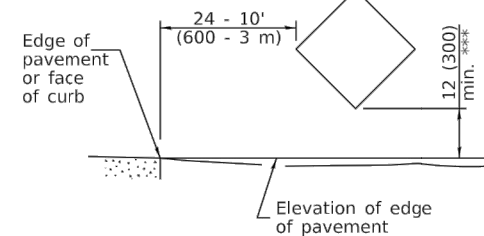
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-19



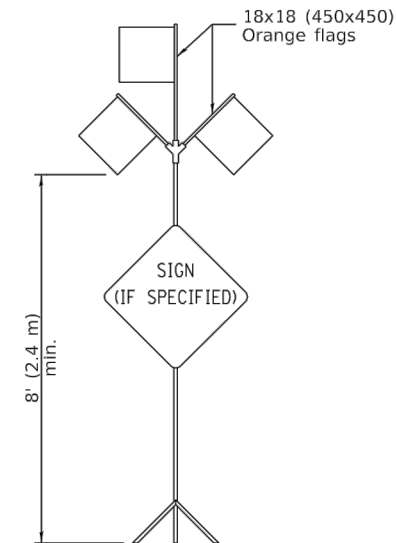
POST MOUNTED SIGNS

** 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

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

END
CONSTRUCTION
G20-I105(0)-6024

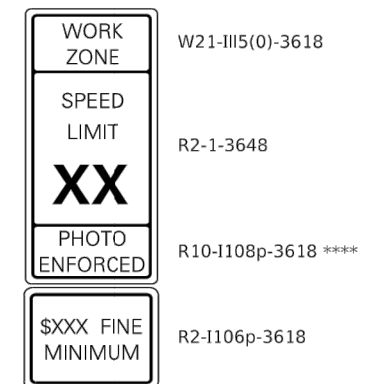
This signing is required for all projects 2 miles (3200 m) or more in length.

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



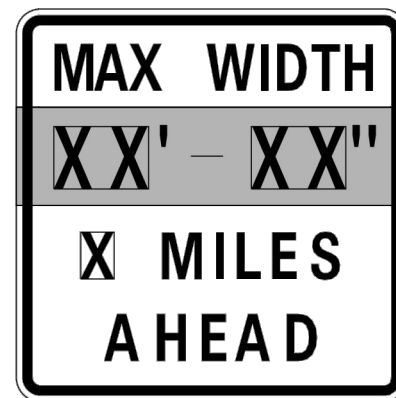
Sign assembly as shown on Standards or as allowed by District Operations.



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

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

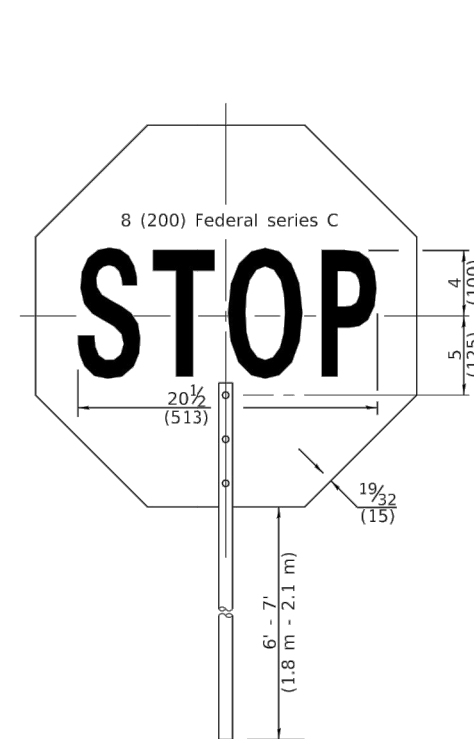
**** R10-I108p shall only be used along roadways under the jurisdiction of the State.



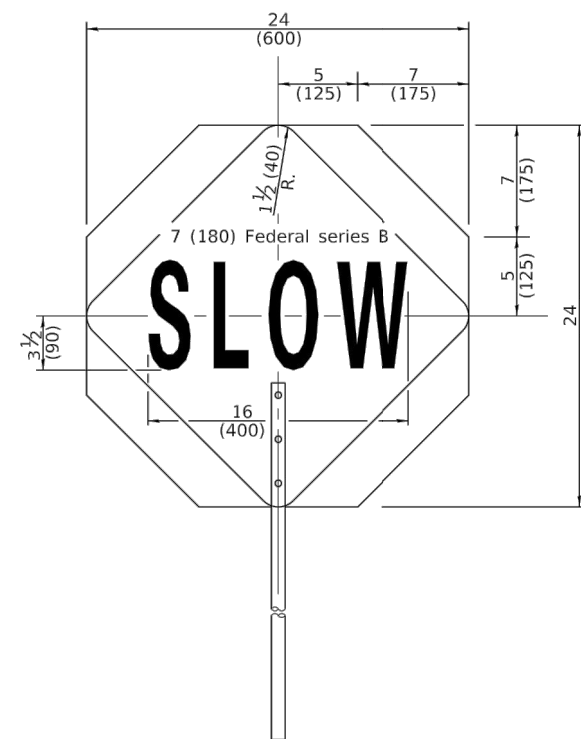
W12-I103-4848

WIDTH RESTRICTION SIGN

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

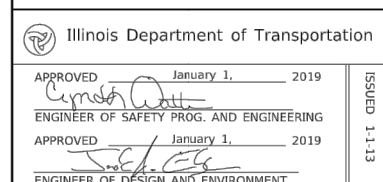


FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN



TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-08

CITY OF AURORA
ENGINEERING DIVISION
77 S. BROADWAY

REVISIONS:

DESIGNED BY: RA CHECKED BY: RG SCALE:
DRAWN BY: GIL/AH APPROVED BY: RG DATE: 7/2021

PROJECT

5TH AVE-MCCOY DR-KAUTZ RD
TRAFFIC SIGNAL INSTALLATION

SHEET TITLE

MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

39

TOTAL SHEETS

41

