MONTGOMERY-MEADOWBROOK-W. WHITE EAGLE TRAFFIC SIGNAL INSTALLATION

APRIL, 2019

GENERALLY LOCATED: T38N, 9, NW 1/4 & SW 1/4 SECTION 23, NAPERVILLE TOWNSHIP

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO 2

TRAFFIC DATA

DESIGN DESIGNATION:

MONTGOMERY ROAD = MINOR ARTERIAL MEADOWBROOK DRIVE = LOCAL STREET

WHITE EAGLE DRIVE = LOCAL STREET

EXISTING AADT:

MONTGOMERY ROAD = 12,200

MEADOWBROOK DRIVE = 1,000

WHITE EAGLE DRIVE = 5,100

DESIGN SPEED:

MONTGOMERY ROAD = 40 MPH

MEADOWBROOK DRIVE = 25 MPH

WHITE EAGLE DRIVE = 25 MPH

POSTED SPEED:

MONTGOMERY ROAD = 40 MPH

MEADOWBROOK DRIVE = 25 MPH

WHITE EAGLE DRIVE = 25 MPH

Meadow PROJECT LIMITS Kingshill Park Monarch Park

> 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.

> JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

REVISIONS:



THIS IMPROVEMENT IS LOCATED IN THE CITY OF AURORA

Robo B Sham DATE 4-26-19

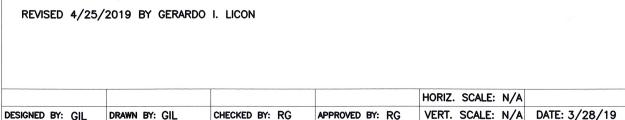


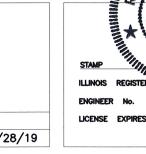


DEPARTMENT OF PUBLIC WORKS, DIVISION OF ENGINEERING 77 S. BROADWAY - AURORA, IL

PHONE: 630-256-3200

FAX: 630-256-3229





062-050799 11-30-19

REGISTERED

PROFESSIONAL ENGINEER

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS / GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 CURB & SIDEWALK IMPROVEMENTS, PAVEMENT MARKINGS, SIGNAGE
- 5 TRAFFIC SIGNAL INSTALLATION PLAN MONTGOMERY ROAD AT MEADOWBROOK DRIVE AND W. WHITE EAGLE DRIVE
- 6 CABLE PLAN AND PHASE DESIGNATION DIAGRAM MONTGOMERY ROAD AT MEADOWBROOK DRIVE AND WHITE EAGLE DRIVE
- 7 INTERCONNECT PLAN
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- 9 INTERCONNECT SCHEMATIC

10-33 MISCELLANEOUS STANDARD DETAILS

LIST OF HIGHWAY STANDARDS

424006-04 DIAGONAL CURB RAMPS FOR SIDEWALK

424021-05 DEPRESSED CORNER FOR SIDEWALKS

606006-04 OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B-6.24 (B-15.60)

701606-10 URBAN SINGLE LANE CLOSURE, MULITLANE,

2W W/ MOUNTABLE MEDIAN

728001-01 TELESCOPING STEEL SIGN SUPPORT

814001-03 HANDHOLES

814006-02 DOUBLE HANDHOLES

873001-02 TRAFFIC SIGNAL GROUNDING AND BONDING

876001-04 PEDESTRIAN PUSH BUTTON POST

877001-07 STEEL MAST ARM ASSEMBLY AND POLE 16'-55'

878001-10 CONCRETE FOUNDATION DETAILS, TYPE A.C.D.E.

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

DISTRICT 1 DETAILS

TC-13 TYPICAL PAVEMENT MARKINGS

TC-24 TYPICAL PAVEMENT MARKINGS

TS-02 MAST ARM MOUNTED STREET NAME SIGNS

TS-05 TRAFFIC SIGNAL LEGEND

TS-05 SIGNAL POST, MAST ARM LOCATIONS

TS-05 CABINET, HANDHOLES, MAST ARM GROUNDING

TS-05 EVP, FOUNDATION MODIFICATIONS

TS-05 FOUNDATION TYPES, CABINET LENGTH/SLACK

TS-05 PEDESTRIAN PUSH BUTTON POST, TYPE A

CITY OF AURORA STANDARD DETAILS

COA-1 STREET SIGNAGE

COA-2 VIDEO DETECTION CAMERA / PTZ MOUNTING DETAILS

COA-3 MISCELLANEOUS CURB. GUTTER. SIDEWALK

GENERAL NOTES

MISCELLANEOUS

IT IS THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE CONTRACT.

CHANGEABLE MESSAGE SIGNS AND STATIC SIGNS ARE TO BE INCLUDED IN THE COST OF PAY ITEM "TRAFFIC CONTROL AND PROTECTION".

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.

UTILITIES

THE CONTRACTOR SHALL COOPERATE WITH THE CITY OF AURORA IF ANY UTILITY IMPROVEMENTS ARE REQUIRED BY THE CITY WITHIN THE DURATION OF THE CONTRACT.

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.

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.

RESTORATION

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.

REMOVAL AND DISPOSAL OF SPOILS IS INCLUDED IN COST OF CONTRACT PAY ITEMS (SEE SP H.6 DISPOSAL OF DEBRIS AND EXCAVATED MATERIAL IN SPECIFICATIONS). RESIDENT ENGINEER, GERARDO LICON OR OTHER CITY OF AURORA ENGINEERING OFFICIAL, SHALL PROVIDE DISPOSAL VOUCHERS TO BE USED BY CONTRACTOR FOR DISPOSAL OF SPOILS FOLLOWING CCDD HEARTLAND STANDARDS AND GUIDLINES.



CITY OF AUROR **ENGINEERING DIVIS** 77 S. BROADWAY

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REVISIONS:		
DESIGNED BY: GIL	CHECKED BY: RG	SCALE:

DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

SHEET TITLE

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS, AND GENERAL NOTES



SIGNAL QUANTITIES

Item No.	CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
1	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
2	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	209
3	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	25
4	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	262
5	81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	1
6	81400100	HANDHOLE	EACH	4
7	81400300	DOUBLE HANDHOLE	EACH	1
8	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
9	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
10	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 141C	FOOT	1917
11	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1387
12	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 143C	FOOT	1443
13	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 145C	FOOT	1550
14	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 147C	FOOT	1431
15	8731805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	154.5
16	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTER, NO. 61C	FOOT	571
17	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	4
18	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT	EACH	1
19	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT	EACH	2
20	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT	EACH	1
21	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16
22	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
23	87800415	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	40.5
24	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13.5
25	87900200	DRILL EXISTING HANDHOLE	EACH	1
26	88030050	SIGNAL HEAD, LED, 1 FACE, 3 SECTION, BRACKET MOUNTED	EACH	4
27	88030020	SIGNAL HEAD, LED, 1-FACE, 3 SECTION, MAST-ARM MOUNTED	EACH	4
28	88030100	SIGNAL HEAD, LED, 1-FACE, 5 SECTION, BRACKET MOUNTED	EACH	4
29	88030110	SIGNAL HEAD, LED, 1-FACE, 5 SECTION, MAST-ARM MOUNTED	EACH	4
30	88102717	PEDESTRAIN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
31	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
32	88700200	LIGHT DETECTOR (INCLUDE CONFIRMATION BEACON)	EACH	2
33	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
34	8880100	PEDESTRIAN PUSH BUTTON	EACH	8

DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

35	X0326266	ETHERNET SWITCH	EACH	2
36	X1400127	CAT. 6 ETHERNET CABLE	FOOT	158
37	X8710031	FIBER OPTIC CABLE, MICRO, 36 FIBERS, SINGLE MODE	FOOT	1943
38	X8620200	UNINTERUPTABLE POWER SUPPLY, SPECIAL	EACH	1
30	X0020200	ONINTEROF TABLE FOWER 3011 E1, 31 ECIAE	LACIT	1
39	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	317
40	XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
41	XX007993	CENTRALIIZED SYSTEM FIELD INTEGRATION / SETUP	LSUM	1
		, =====		
42	81028750	UNDERGROUND CONDUIT, COILABLE NONMETALIC CONDUIT (HDPE, SCH. 40), 2" DIA	FOOT	1486
43	X0326885	VIDEO DETECTION SYSTEM	EACH	1

MISCELLANEOUS QUANTITIES

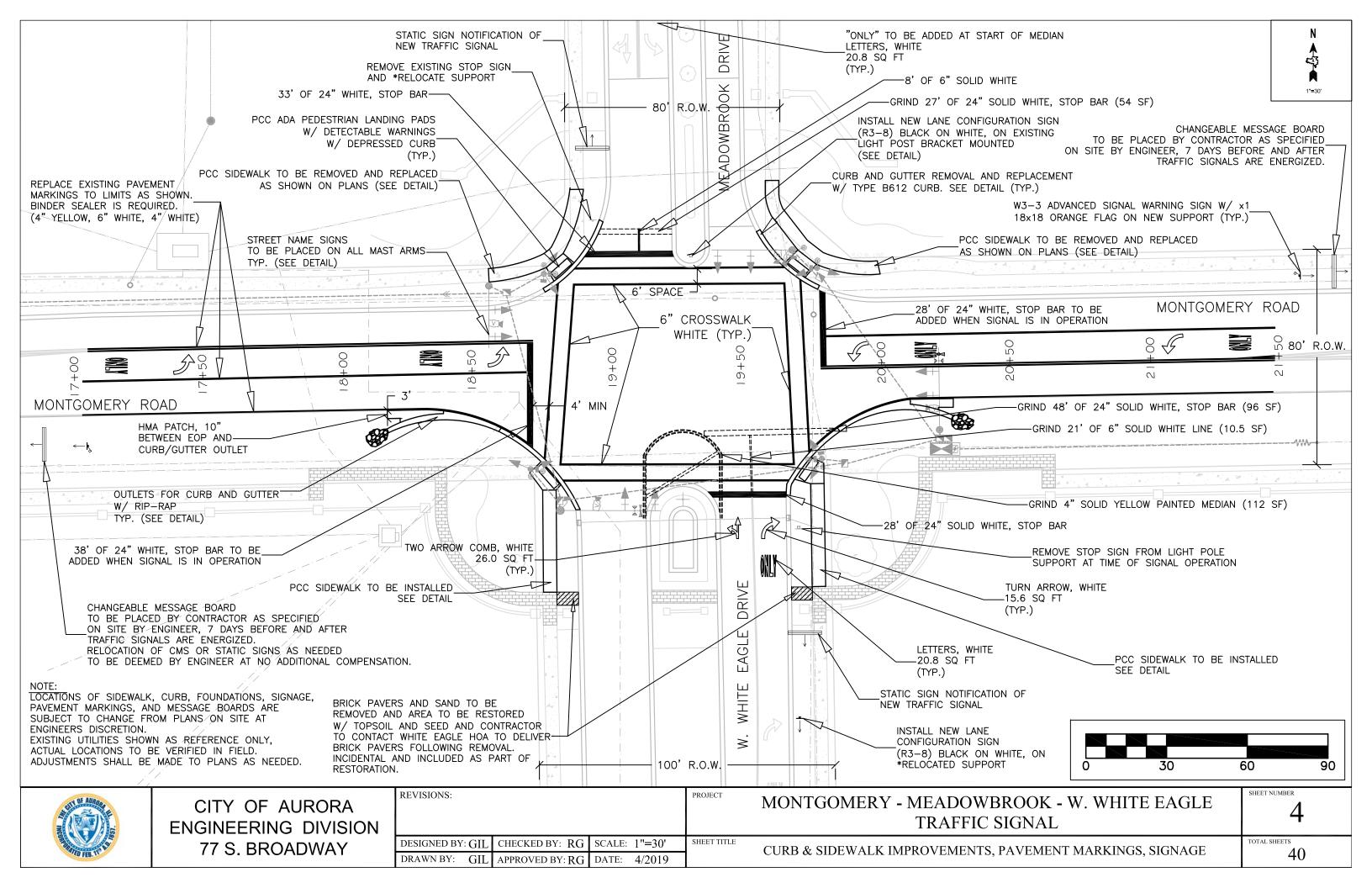
45 ***		CODE NUMBER PAY ITEM DESCRIPTION					
		COMBINATION PCC CURB AND GUTTER REMOVAL & REPLACEMENT	LF	65			
46	***	PCC SIDEWALK REMOVAL & REPLACEMENT, 5"	SF	650			
47	***	PCC SIDEWALK, 5"	SF	490			
48	***	PCC CURB AND GUTTER, SPECIAL	LF	127			
49	***	DETECTABLE WARNINGS	SF	64			
50	78000200	THERMOPLASTIC PAVEMENT MARKINGS, 4" (YELLOW)	FT	700			
51	78000400	THERMOPLASTIC PAVEMENT MARKINGS, 6" (WHITE)	FT	400			
52	78000200	THERMOPLASTIC PAVEMENT MARKINGS, 4" (WHITE)	FT	350			
53	78000650	THERMOPLASTIC PAVEMENT MARKINGS, 24" (WHITE)	FT	130			
54	78000100	THERMOPLASTIC PAVEMENT MARKINGS - LETTERS AND SYMBOLS	SF	250			
55	***	THERMOPLASTIC PAVEMENT MARKINGS - GRIND /REMOVAL	SF	275			
56	72800100	TELESCOPING STEEL SIGN SUPPORT	FT	45			
57	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EA	1			
58	72000100	SIGN PANEL - TYPE 1	SF	48.5			
59	72000200	SIGN PANEL - TYPE 2	SF	40			
60	72400500	RELOCATE SIGN PANEL ASSEMBLY-TYPE A	EA	1			
61	72400310	REMOVE SIGN PANEL - TYPE 1	SF	12.5			
62	***	ITEMS ORDERED BY ENGINEER	ALLOWANCE	1			
63	***	TRAFFIC CONTROL AND PROTECTION	LSUM	1			

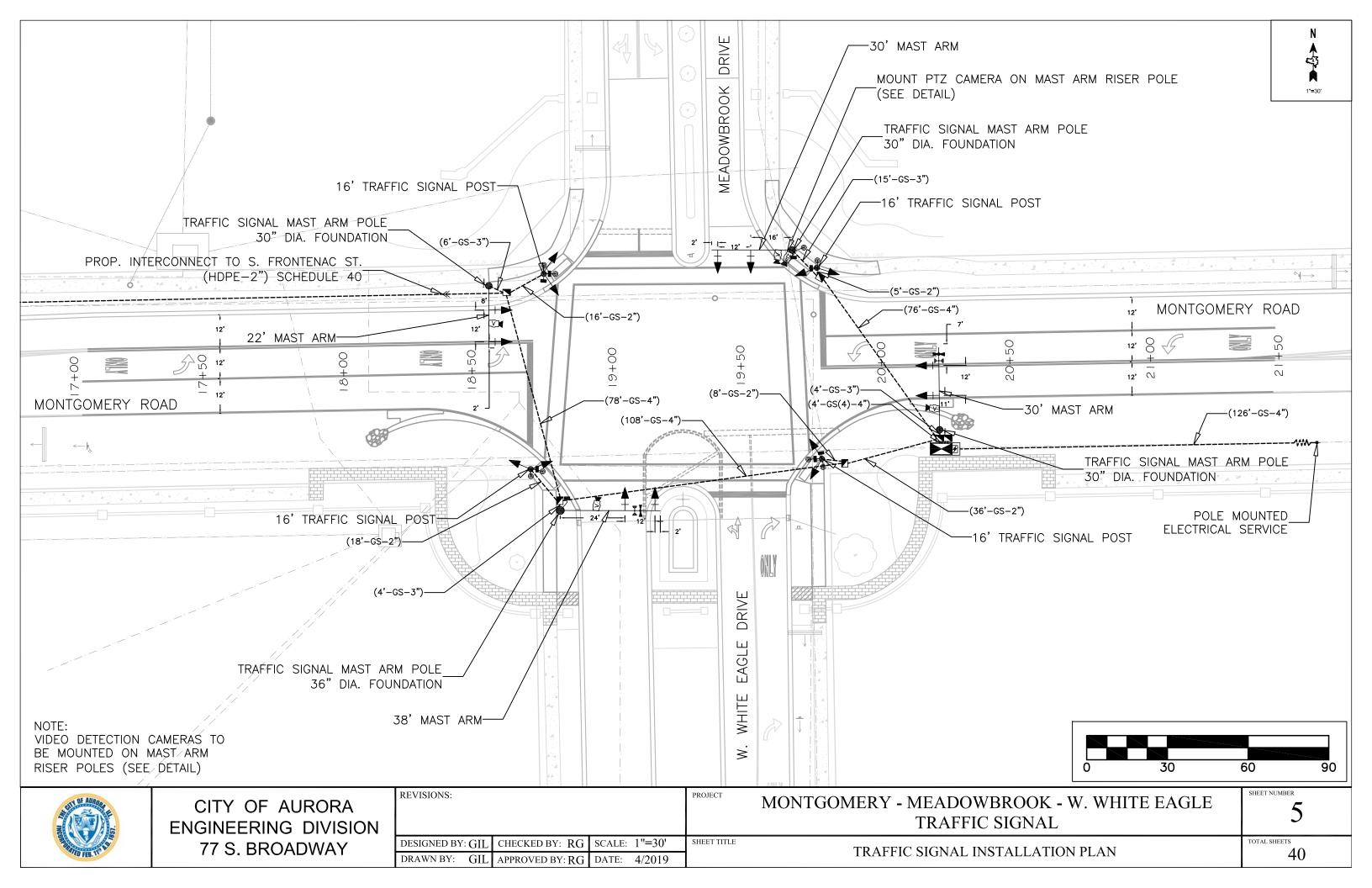
TOTAL SHEETS 40

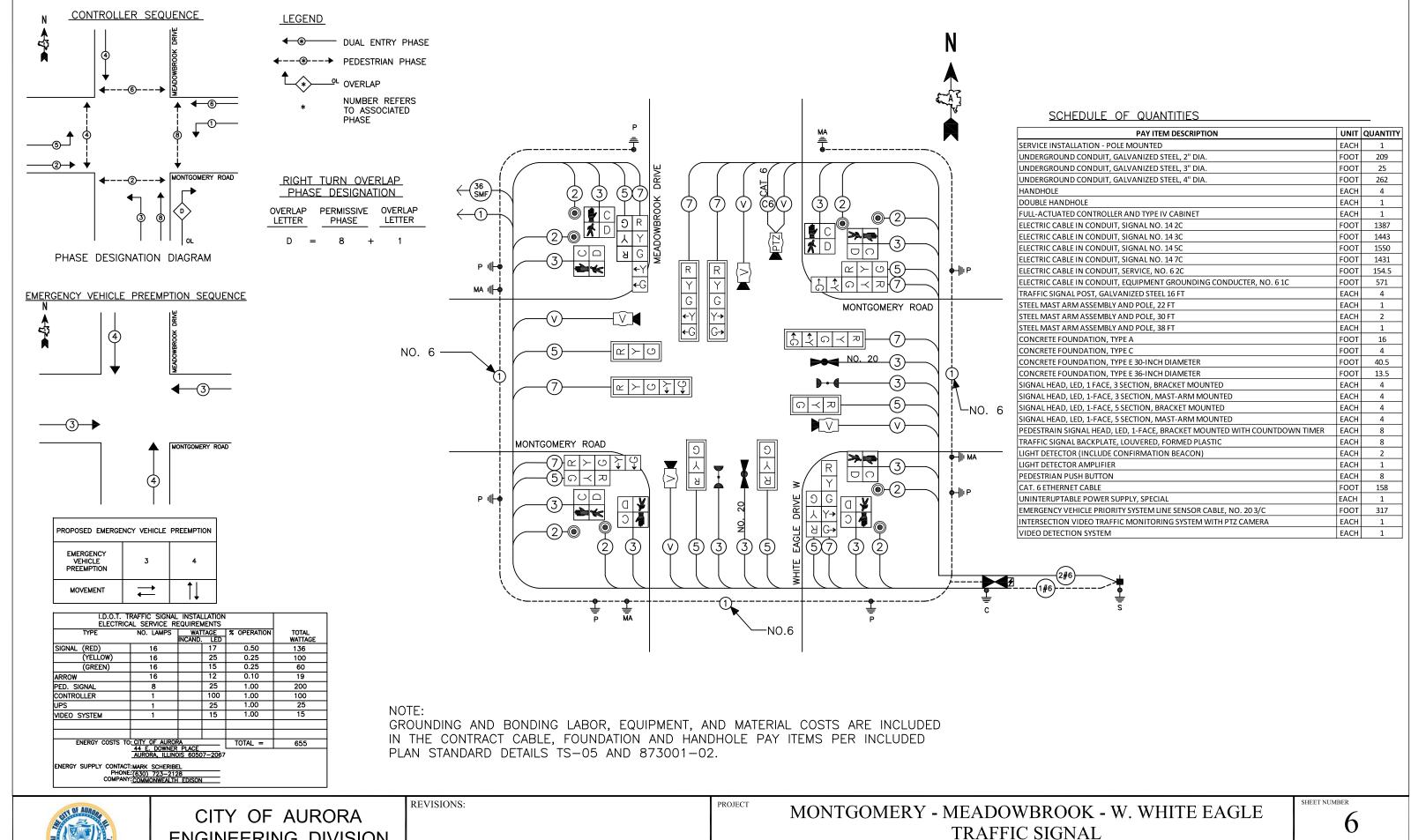


CITY OF AURORA ENGINEERING DIVISION 77 S. BROADWAY

EVISIONS:				PROJECT	MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL
ESIGNED BY: GIL	CHECKED BY: RG	SCALE:		SHEET TITLE	CHMMADY OF OHANTITIES
RAWN BY: GII	ADDDOVED DV: D.C.	DATE:	4/2010	1	SUMMARY OF QUANTITIES

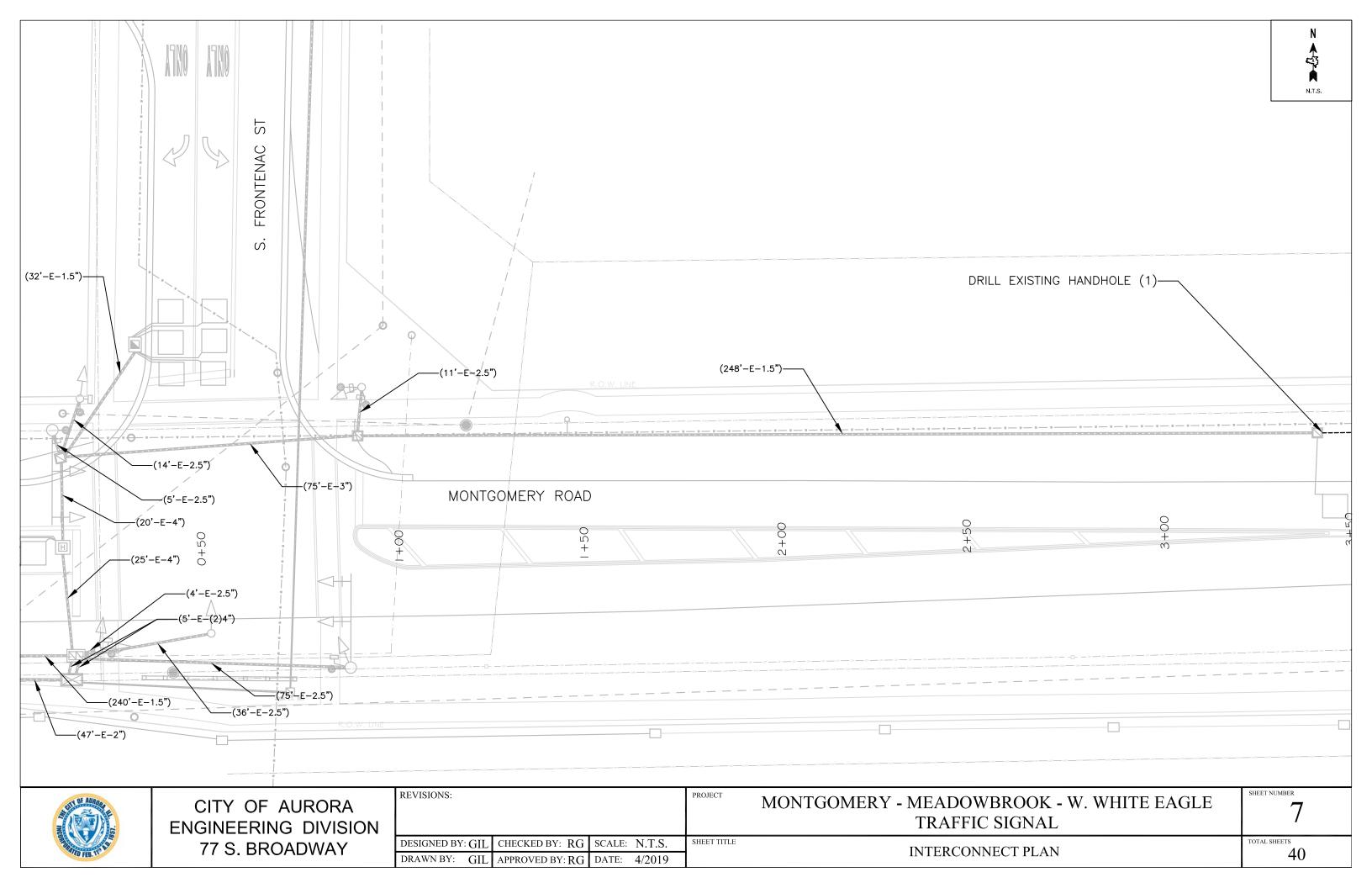


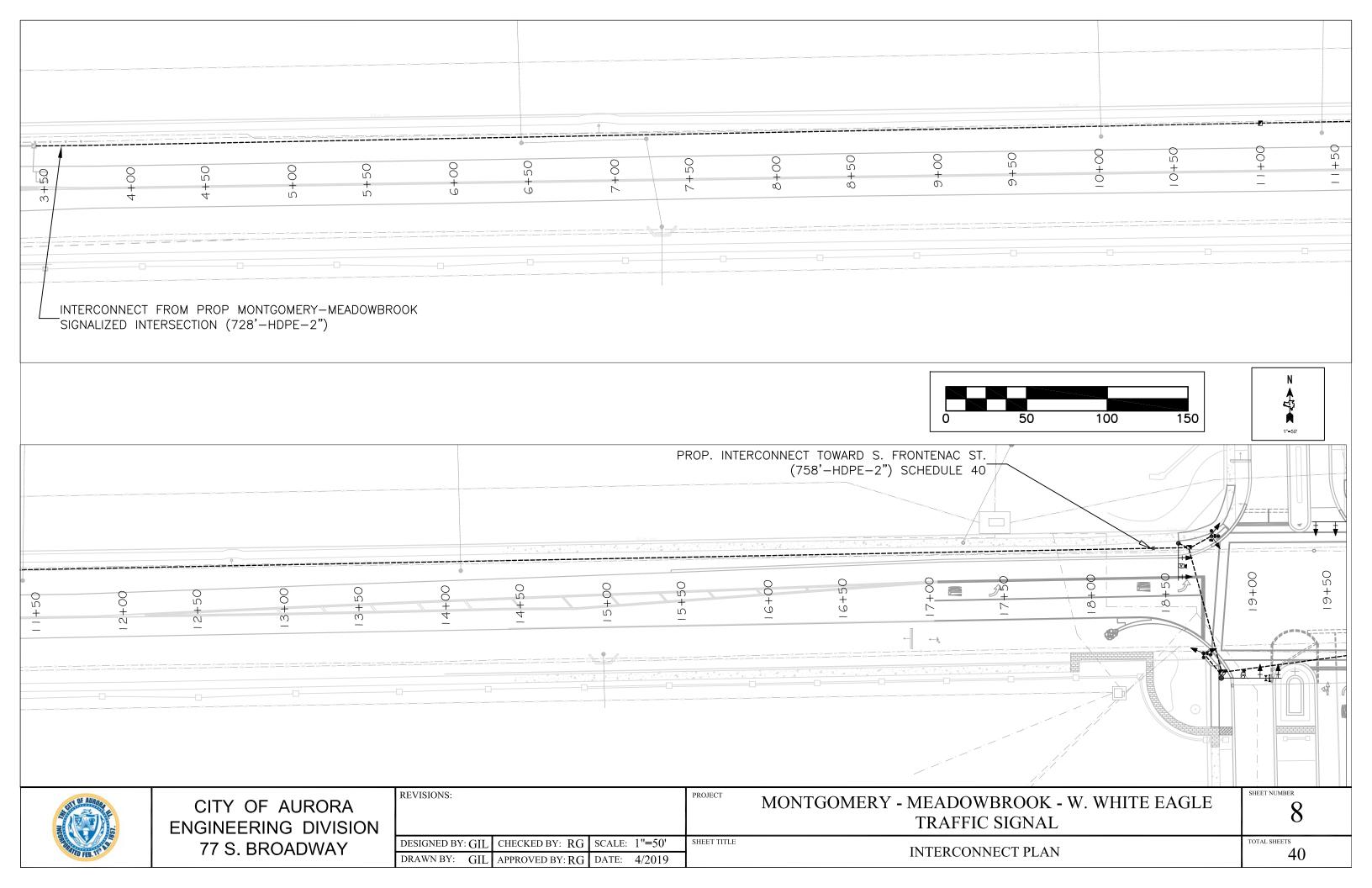




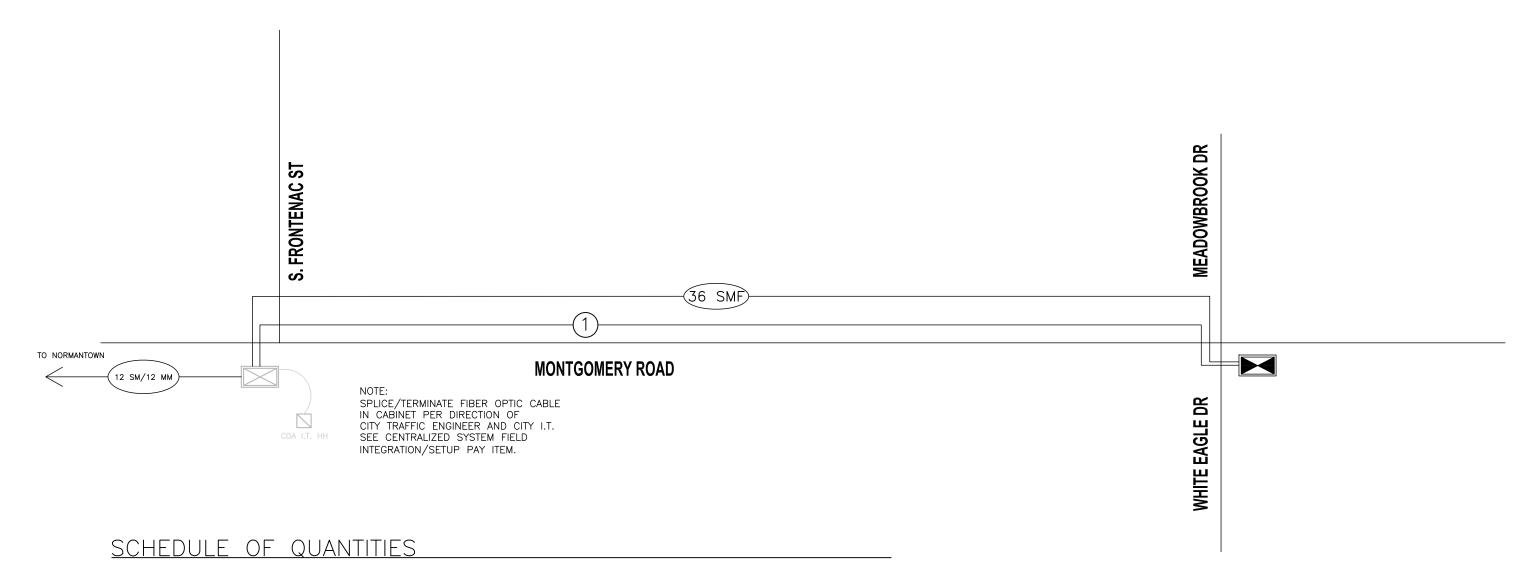
ENGINEERING DIVISION 77 S. BROADWAY

SHEET TITLE DESIGNED BY: GIL CHECKED BY: RG | SCALE: SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE









QUANTITY UNIT **PAY ITEM DESCRIPTION** HANDHOLE, COMPOSITE CONCRETE EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH 1 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 141C FOOT 1917 DRILL EXISTING HANDHOLE EACH 1 EACH 2 ETHERNET SWITCH FIBER OPTIC CABLE, MICRO, 36 FIBERS, SINGLE MODE FOOT 1943 CENTRALIIZED SYSTEM FIELD INTEGRATION / SETUP L SUM 1 UNDERGROUND CONDUIT, COILABLE NONMETALIC CONDUIT (HDPE, SCH. 40), 2" DIA FOOT 1486



CITY OF AURORA ENGINEERING DIVISION 77 S. BROADWAY

REVISIONS:		PROJECT	MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL	SHEET NUMBER 9	
DESIGNED BY: GIL	CHECKED BY: RG	SCALE: N.T.S.	SHEET TITLE	DITED CONDIECT COLLEMATIC	
DRAWN BY: GIL	RAWN BY: GIL APPROVED BY: RG DATE: 4/2019		E: 4/2019	INTERCONNECT SCHEMATIC	40

			INAFFIC	(NOT TO SCALE)	ND			
LTEM	EXISTING	PROPOSED	LTEM	EXISTING	PROPOSED	LTEM	EXISTING	PROPOSED
CONTROLLER CABINET	\bowtie		HANDHOLE -SQUARE		■ ●	SIGNAL HEAD	(R) (R)	RR
COMMUNICATION CABINET	ECC	СС	-ROUND	4		-(P) PROGRAMMABLE SIGNAL HEAD		Y Y G
MASTER CONTROLLER	EMC	MC	HEAVY DUTY HANDHOLE -SOUARE -ROUND	H (9)	⊞ ⊕			R Y Y G G G G G G G G G G G G G G G G G
MASTER MASTER CONTROLLER	EMMC	ммс	DOUBLE HANDHOLE		-		P	Р
UNINTERRUPTABLE POWER SUPPLY	§	3	JUNCTION BOX		0	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		R R R Y
SERVICE INSTALLATION	-D-P	₽ P	RAILROAD CANTILEVER MAST ARM	XOX X X	I II I	-NO RETROREFLECTIVE BACKFLATE	100000 100000	G G G G G G G G G G G G G G G G G G G
-(P) POLE MOUNTED SERVICE INSTALLATION	_		RAILROAD FLASHING SIGNAL	∑⊙ X	X-X		P RB	P RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	⊠ ^G ⊠ ^{GM}	I G I GM	RAILROAD CROSSING GATE	₹0₹>	I+1			
ELEPHONE CONNECTION	ET	T	RAILROAD CROSSBUCK	₹	*	PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS	P	®
STEEL MAST ARM ASSEMBLY AND POLE	<u> </u>	-	RAILROAD CONTROLLER CABINET		> ∢	PEDESTRIAN SIGNAL HEAD	() C (X) D	₽ c
ALUMINUM MAST ARM ASSEMBLY AND POLE	0		UNDERGROUND CONDUIT (UC). GALVANIZED STEEL			WITH COUNTDOWN TIMER	(36) •	₹ □
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o¤—	•*	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		(9)
SIGNAL POST	0	• • BM	SYSTEM ITEM	s	SP	NUMBER OF CONDUCTORS, ELECTRIC	d	
-(BM) BARREL MOUNTED - TEMPORARY			INTERSECTION ITEM	1	IP	CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		_5_
WOOD POLE	⊗	θ	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1-6	(1*6)
GUY WIRE	>	>	RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER		
SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE	-D	+	ABANDON ITEM		A	NO. 14 1/C	-,0-	-1)-
	P +DP	p p	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	<u> </u>	—©—
SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION	F FS	F FS	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		_V_
-(FS) SOLAR POWERED	OP OP	₽₽ ₽₽FS	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6*18	—6*18 —
PEDESTRIAN SIGNAL HEAD	-0	4	DETECTOR LOOP, TYPE I	0.0		FIBER OPTIC CABLE -NO. 62.5/125, MM12F	—(12F)—	—(12F)—
PEDESTRIAN PUSH BUTTON (APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON		@ @ APS	PREFORMED DETECTOR LOOP	(P) (P)	P 0	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	—(24F)—	—24F—
RADAR DETECTION SENSOR	R	R.	SAMPLING (SYSTEM) DETECTOR	(\$)	S S			
VIDEO DETECTION CAMERA	VD	:	INTERSECTION AND SAMPLING		IS (IS)		36F	— <u>36F</u> —
RADAR/VIDEO DETECTION ZONE			(SYSTEM) DETECTOR OUEUE AND SAMPLING			GROUND ROD -(C) CONTROLLER	±C ±M ₽ S	T T T S
PAN, TILT, ZOOM (PTZ) CAMERA	etz)	₽TZ II	(SYSTEM) DETECTOR	(05)	os os	-(M) MAST ARM -(P) POST	8 8 8 8	
			WIRELESS DETECTOR SENSOR	0	©	-(S) SERVICE		
MERGENCY VEHICLE LIGHT DETECTOR	∞	•	WIRELESS ACCESS POINT					
CONFIMATION BEACON	o- Q							
WIRELESS INTERCONNECT	O-1111	•+111						
IRELESS INTERCONNECT RADIO REPEATER	ERR	RR						
NAME * USER NAME * Loyso	DESIGNED - DRAWN -	IP REVISED		TE OF ILLINOIS		DISTRICT ONE	F.A. SECTION	N COUNTY TOTAL SHEET
PLOT SCALE = 50.0000 ' / PLOT DATE = 9/29/2016		P REVISED 9/29/2016 REVISED	DEPARTMEN	T OF TRANSPORTATION		ANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 1 OF 7 SHEETS STA. TO STA.	TS-05	CONTRACT NO.

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CITY OF AURORA ENGINEERING DIVISION 77 S. BROADWAY REVISIONS:

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

10

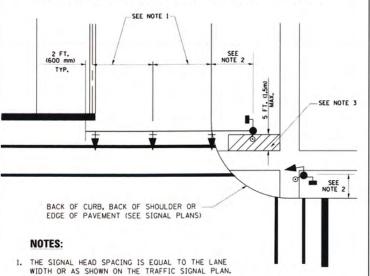
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DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

SHEET TITLE

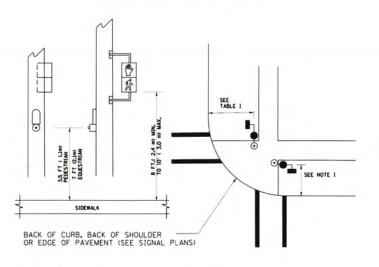
MISCELLANEOUS STANDARD DETAILS

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

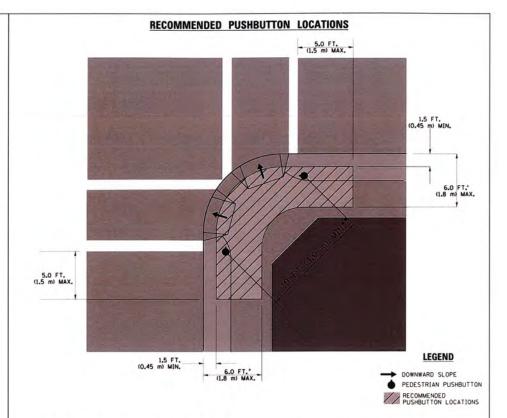


- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO 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

PEDESTRIAN SIGNAL POST PEDESTRIAN PUSH BUTTON POST



- 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
- 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."



- . 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:

- 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
- 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
- 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.

- 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.

FILE NAME =		USER NAME = Footemj	DESIGNED -	DAD	REVISED DAG 1-1-14		DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.	SECTION	COLINITY	TOTAL SHEET SHEETS NO.
c:\pw.work\pwi	idot\footemj\d0108315\ts05.	ign	DRAWN -	BCK	REVISED	STATE OF ILLINOIS							
		PLOT SCALE = 50.0000 1/ in.	CHECKED -	DAD	REVISED -	DEPARTMENT OF TRANSPORTATION				TS-05	CONTRACT	NO.	
		PLOT DATE = 1/13/2014	DATE	10-28-09	REVISED		SCALE: NONE	SHEET NO. 3 OF 7 SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	ID PROJECT	

PROJECT



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

REVISIONS

DESIGNED BY: GIL CHECKED BY: RG

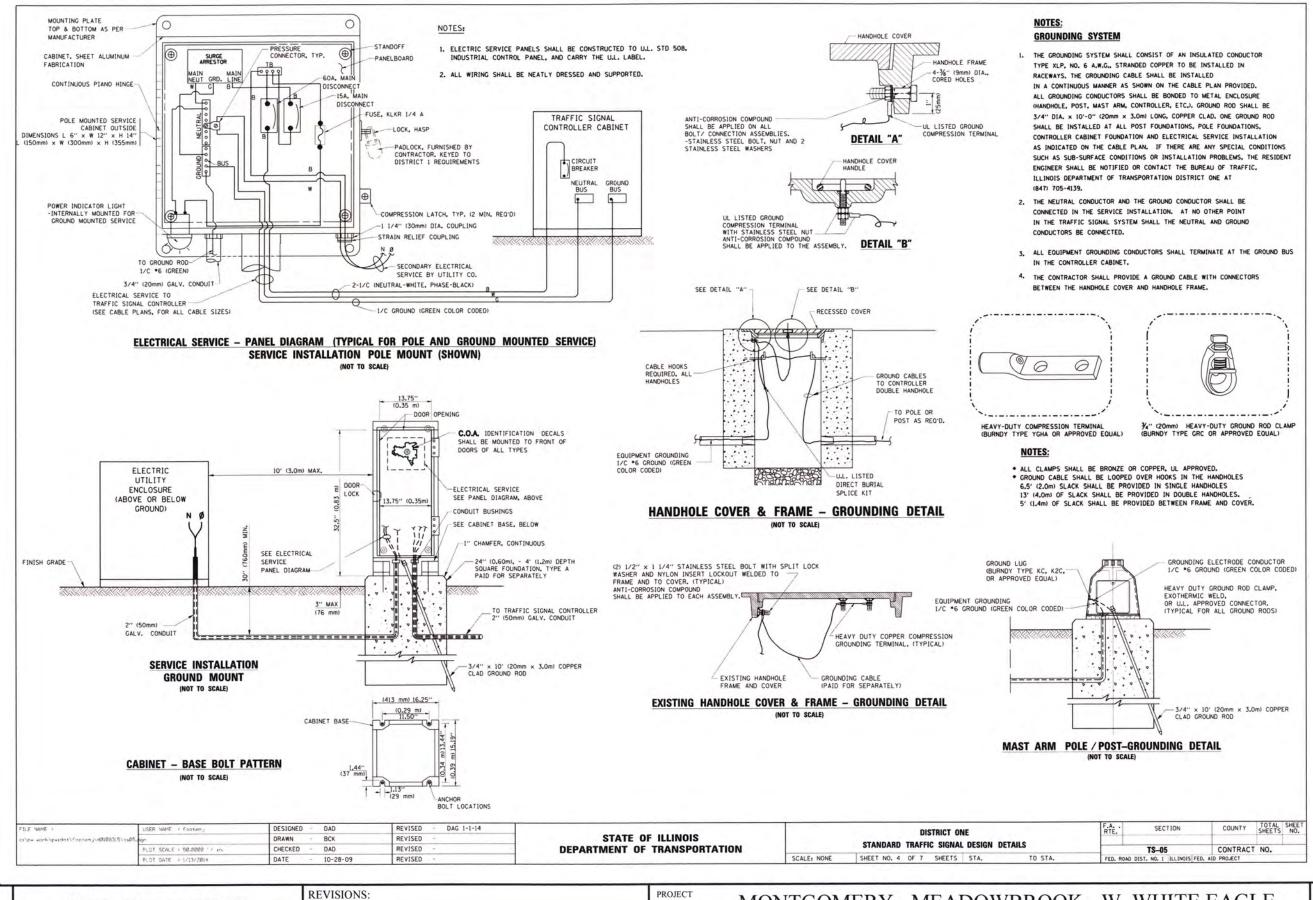
SCALE: DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019 SHEET TITLE

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

MISCELLANEOUS STANDARD DETAILS

SHEET NUMBER

TOTAL SHEETS





DESIGNED BY: GIL SCALE CHECKED BY: RG

APPROVED BY: RG

DRAWN BY: GIL

SHEET TITLE

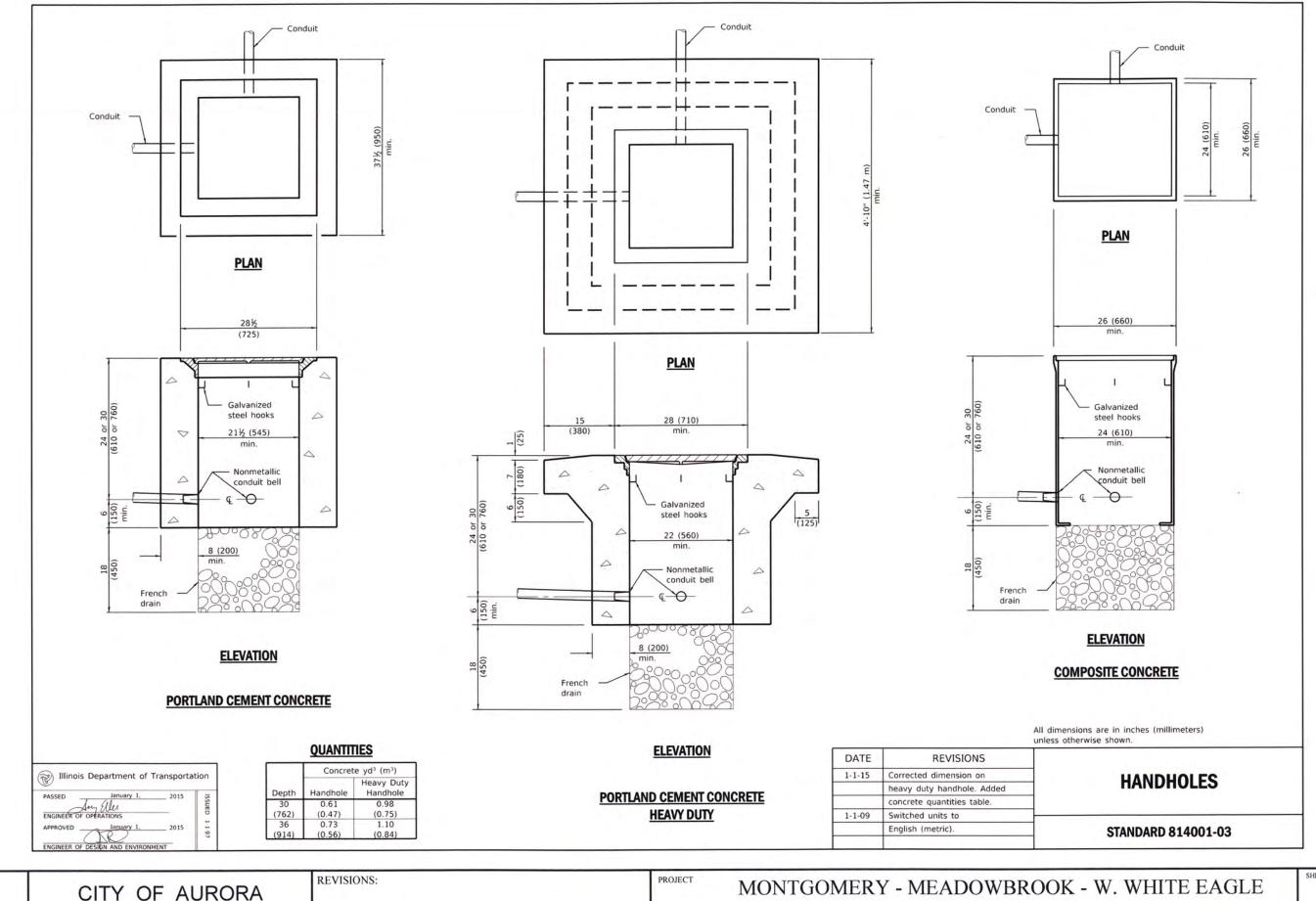
DATE: 4/2019

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET NUMBER

TOTAL SHEETS

MISCELLANEOUS STANDARD DETAILS





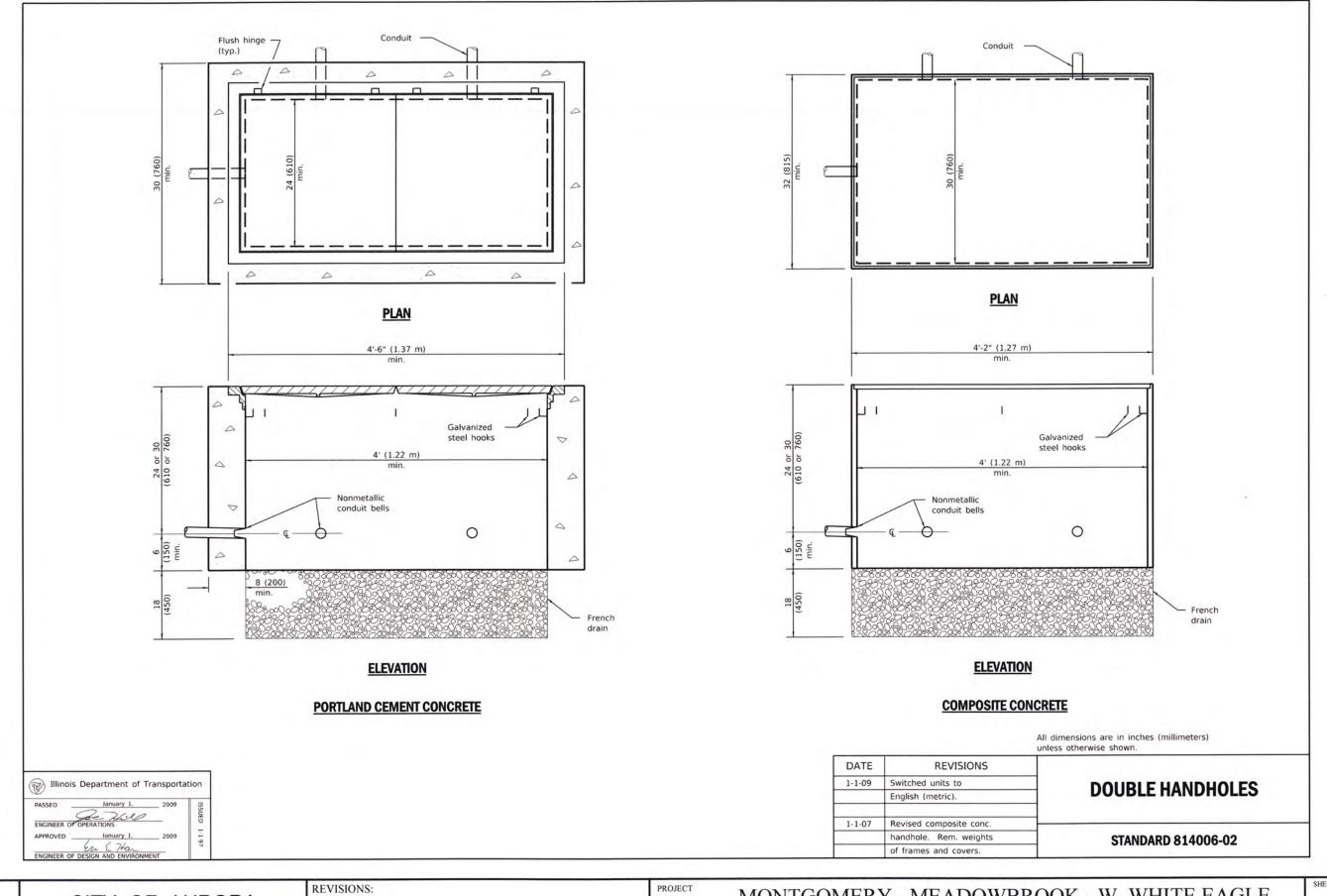
ENGINEERING DIVISION 77 S. BROADWAY

TRAFFIC SIGNAL

SHEET NUMBER

SHEET TITLE DESIGNED BY: GIL CHECKED BY: RG | SCALE: DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

MISCELLANEOUS STANDARD DETAILS



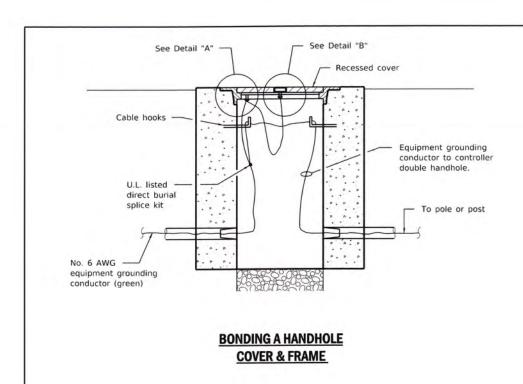


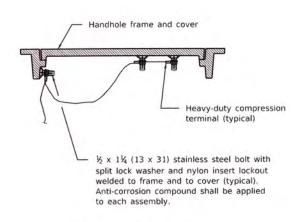
SHEET TITLE CHECKED BY: RG SCALE: DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET NUMBER

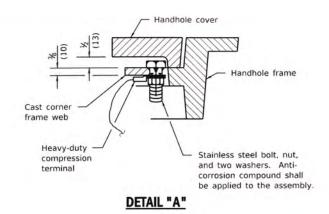
MISCELLANEOUS STANDARD DETAILS

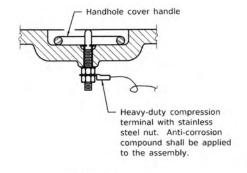




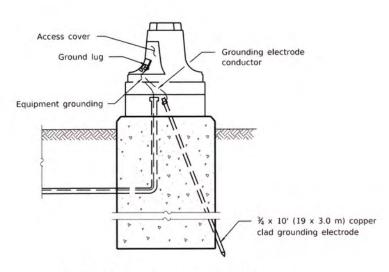
BONDING AN EXISTING HANDHOLE COVER & FRAME



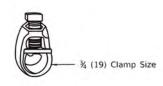




DETAIL "B"



GROUNDING A MAST ARM POLE/POST



HEAVY-DUTY
GROUND ROD CLAMP

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

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

TRAFFIC SIGNAL GROUNDING & BONDING

STANDARD 873001-02



CITY OF AURORA ENGINEERING DIVISION 77 S. BROADWAY

REVISIONS:

ON

DESIGNED BY: GIL

DRAWN BY: GIL

DESIGNED BY: GIL CHECKED BY: RG

CHECKED BY: RG SCALE:
APPROVED BY: RG DATE: 4/2019

PROJECT

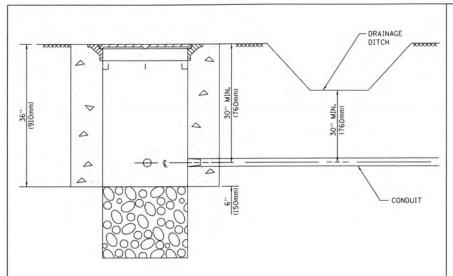
MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

15

SHEET TITLE

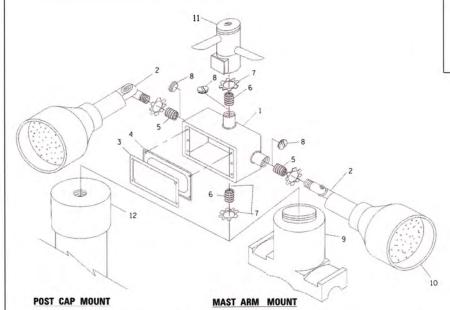
MISCELLANEOUS STANDARD DETAILS

TOTAL SHEETS



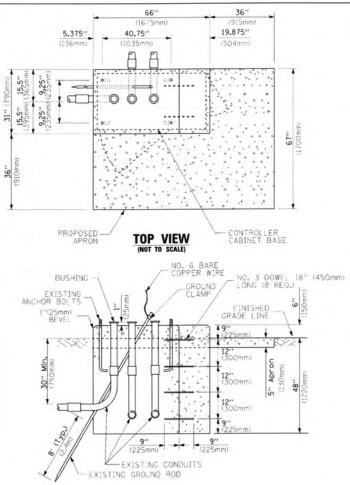
- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY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

HANDHOLE WITH MINIMUM CONDUIT DEPTH



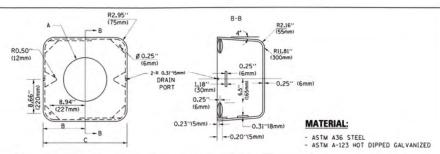
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

FILE NAME =	USEH NAME : Footeny	DESIGNED -	DAD	REVISED DAG 1-1-14	
ot\pm.work\pwidot\footemy\d8108315\te85.	5-egn	DRAWN	BCK	REVISED -	
	PLOT SCALE = 58.8888 / in-	CHECKED -	DAD	REVISED -	1
	PLOT DATE = 1/13/2814	DATE	10-28-09	REVISED -	1



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

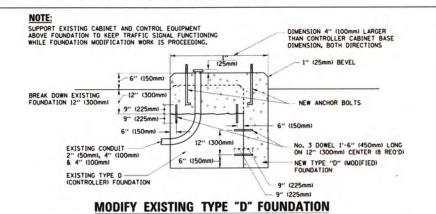
IDENTIFICATION

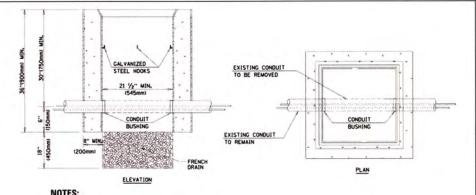


A B		С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- . THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.





- 1. ALL ELECTRICAL ITEMS. EXCEPT ITEMS "2 AND "11 SHALL BE ALUMINUM OR
- 2. ITEM *1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM *2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT

A (19 mm) LOCKNUT

4"(19 mm) HOLE PLUG

SADDLE BRACKET - GALV.

6 WATT PAR 38 LED FLOOD LAMP

DETECTOR UNIT

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.

> STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 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

		DISTRICT ONE					SECTION	COUNTY	SHEETS	1
	STANDARD	TRAFF	IC SIGNAL	L DESIGN DE	TAILS		TS-05	CONTRAC	T NO.	
SCALE: NONE	SHEET NO. 6	OF 7	SHEETS	STA.	TO STA.	FED. ROAD E	DIST. NO. 1 ILLINOIS FE	D. AID PROJECT		



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

REVISIONS:

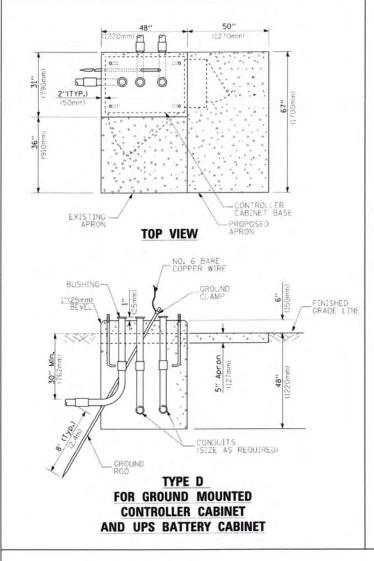
PROJECT

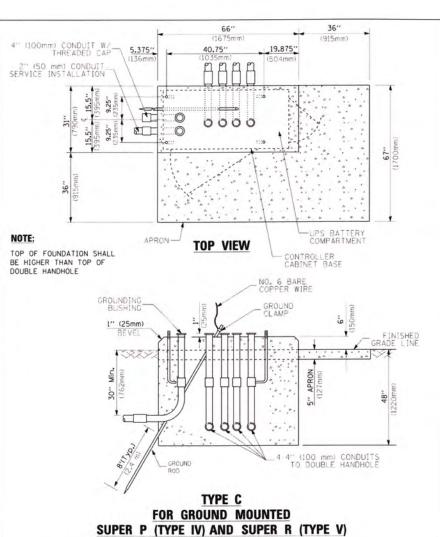
MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET NUMBER 16

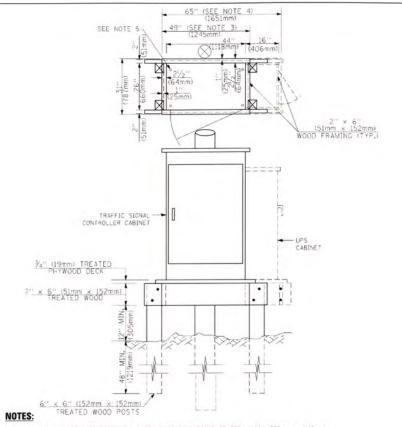
CHECKED BY: RG SCALE: SHEET TITLE DESIGNED BY: GIL DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

MISCELLANEOUS STANDARD DETAILS





CONTROLLER CABINETS



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		
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

CHECKED BY: RG | SCALE:

DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

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

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	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	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" (900mm)	30" (750mm)	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" (900mm)	30" (750mm)	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" (1060mm)	36" (900mm)	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" (1060mm)	36" (900mm)	16	8(25)

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME : Footemy	DESIGNED -	DAG	REVISED - DAG 1-1-14			DISTRICT ON	IE.		F.A	SECTION	COUNTY TOTAL SHI
ct\pw_work\pwidot\footem_j\a@108315\ta@5.	gn	DRAWN	BCK	REVISED	STATE OF ILLINOIS							
	PLOT SCALE + 50.0000 1/ Inc.	CHECKED -	DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL	L DESIGN DETAI	ils		TS-05	CONTRACT NO.
	PLOT DATE + 1/13/2814	DATE -	10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.	FED. ROAD (IST. NO. 1 ILLINOIS	FED. AID PROJECT

SHEET TITLE



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

DESIGNED BY: GIL

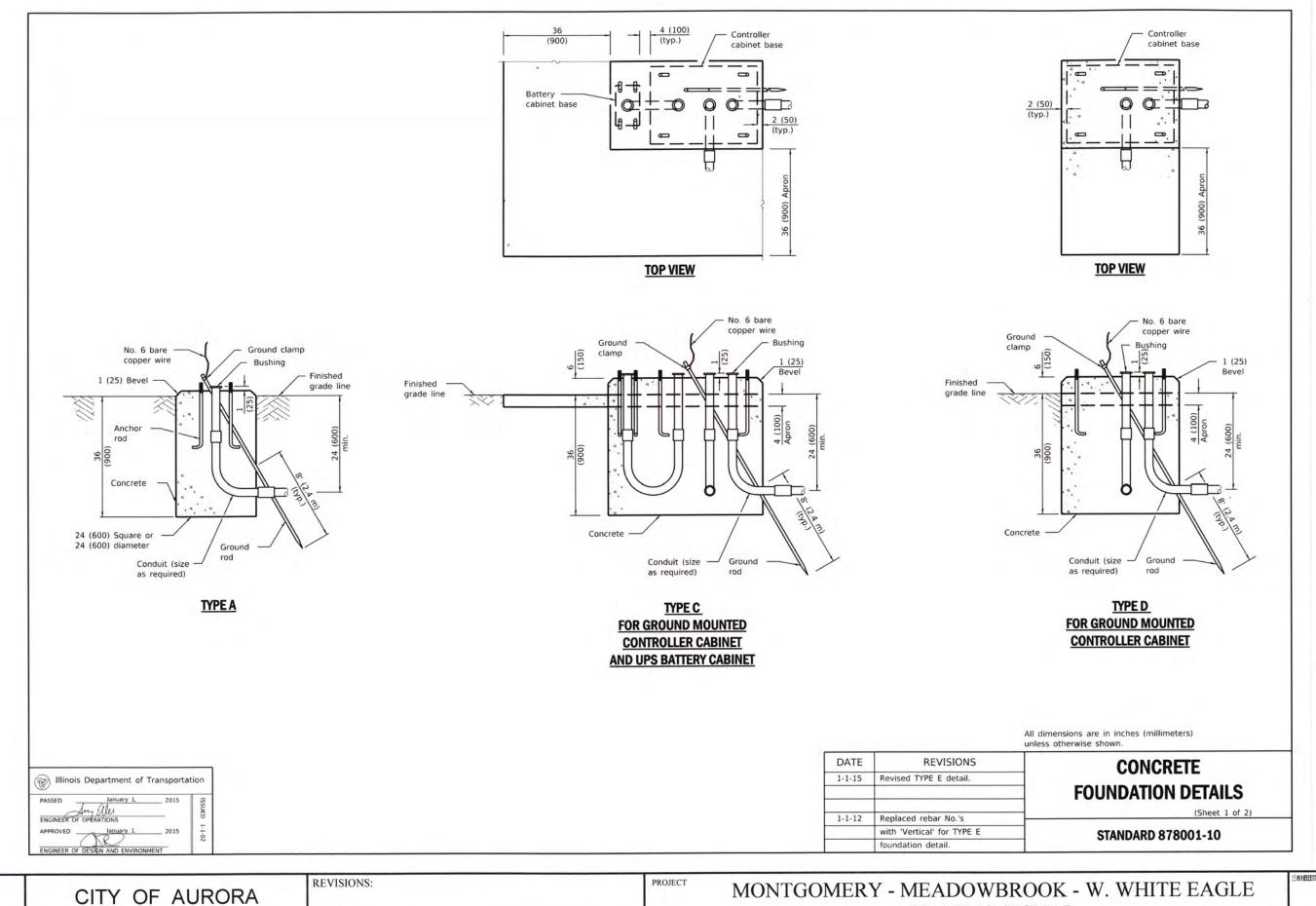
REVISIONS:

PROJECT

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET NUMBER

MISCELLANEOUS STANDARD DETAILS



SHEET TITLE



ENGINEERING DIVIS 77 S. BROADWAY

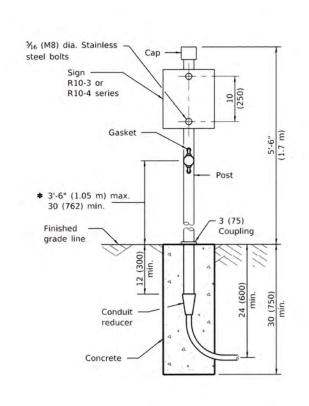
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DESIGNED BY: GIL CHECKED BY: RG | SCALE: DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019 TRAFFIC SIGNAL

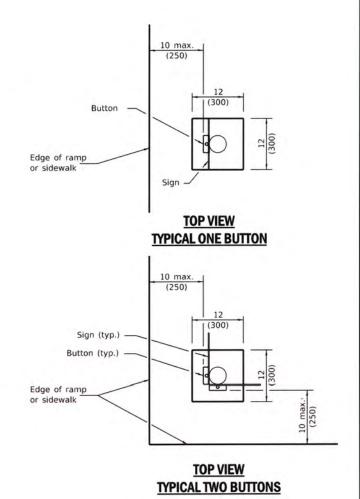
SHEET NUMBER

18

MISCELLANEOUS STANDARD DETAILS



Sign R10-3 or ⅓₁₆ (M8) dia. Stainless steel bolts Sign — R10-3 or R10-4 series * 3'-6" (1.05 m) max. 30 (762) min. Finished Coupling grade line reducer



PEDESTRIAN TWO PUSH BUTTON POST

PEDESTRIAN ONE PUSH BUTTON POST

* 36 (914) prefered

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

	dili	ess otherwise shown
DATE	REVISIONS	DEDECTRIAN DUCH
4-1-16	Revised sign numbers	PEDESTRIAN PUSH
	for concistency with	BUTTON POST
	current MUTCD.	BUTTON PUST
1-1-14	Revised and added	
	dimensions for PROWAG	STANDARD 876001-04
	reach range requirements.	STANDARD STOUL OF





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

REVISIONS:

PROJECT

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

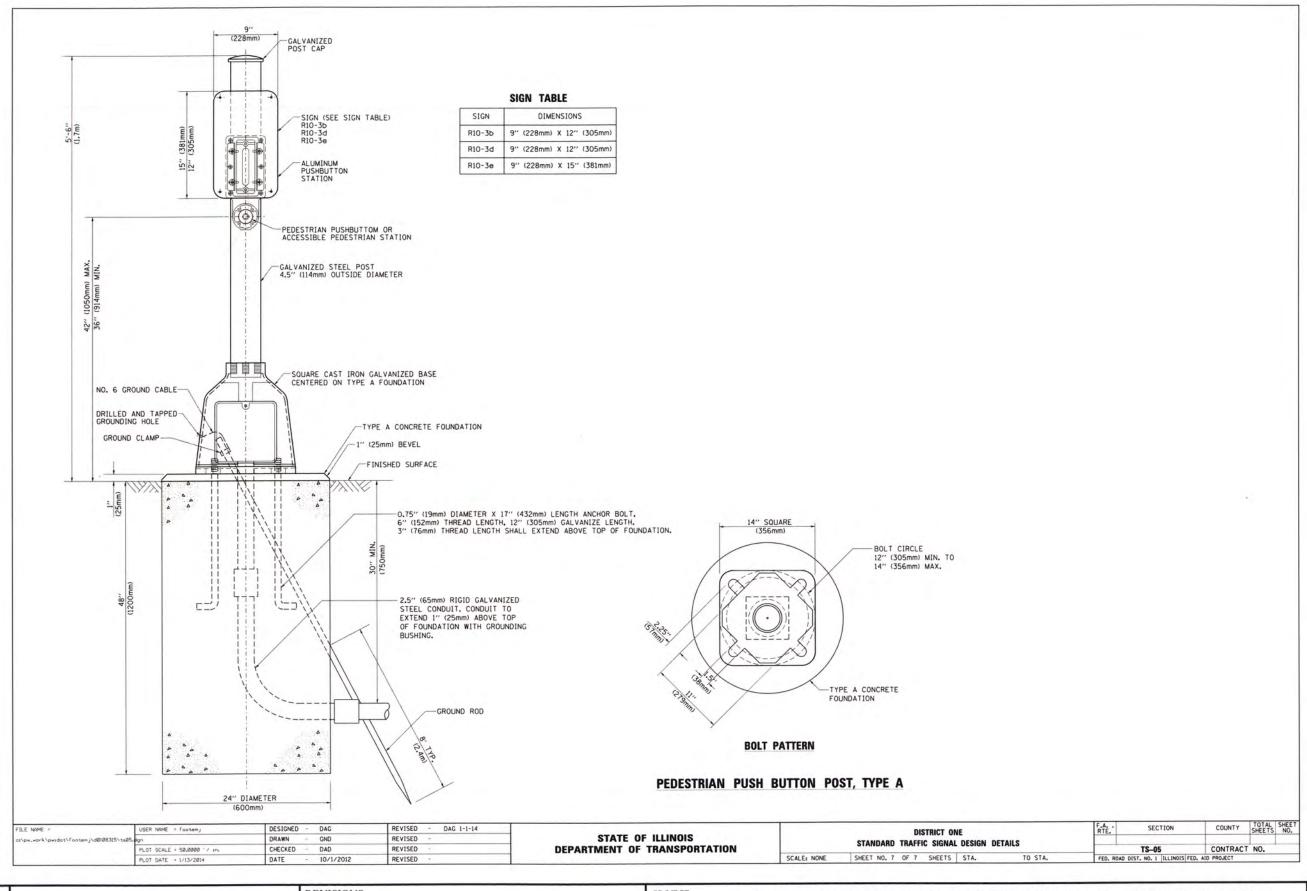
19

DESIGNED BY: GIL DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

SHEET TITLE

MISCELLANEOUS STANDARD DETAILS

TOTAL SHEETS





REVISIONS: CHECKED BY: RG DESIGNED BY: GIL DRAWN BY: GIL APPROVED BY: RG

SHEET TITLE

SCALE:

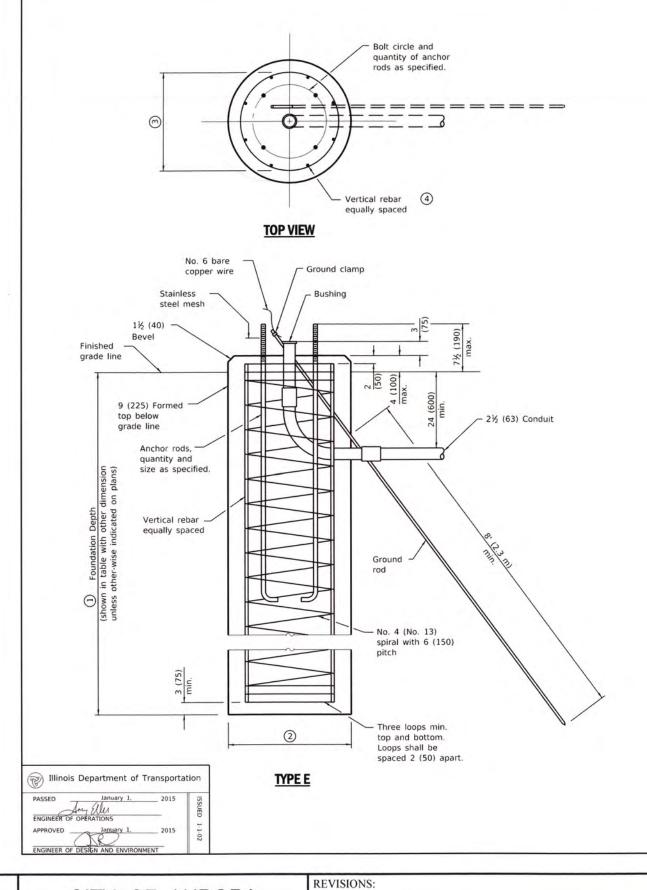
DATE: 4/2019

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE

SHEET NUMBER

TRAFFIC SIGNAL

MISCELLANEOUS STANDARD DETAILS



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	13'-6" (4.1 m)	30 (750)	24 (600)	8	6 (19)
to 30' (9.1 m) and less than 40' (12.2 m)	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.

CONCRETE **FOUNDATION DETAILS**

STANDARD 878001-10



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

DESIGNED BY: GIL CHECKED BY: RG SCALE: DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

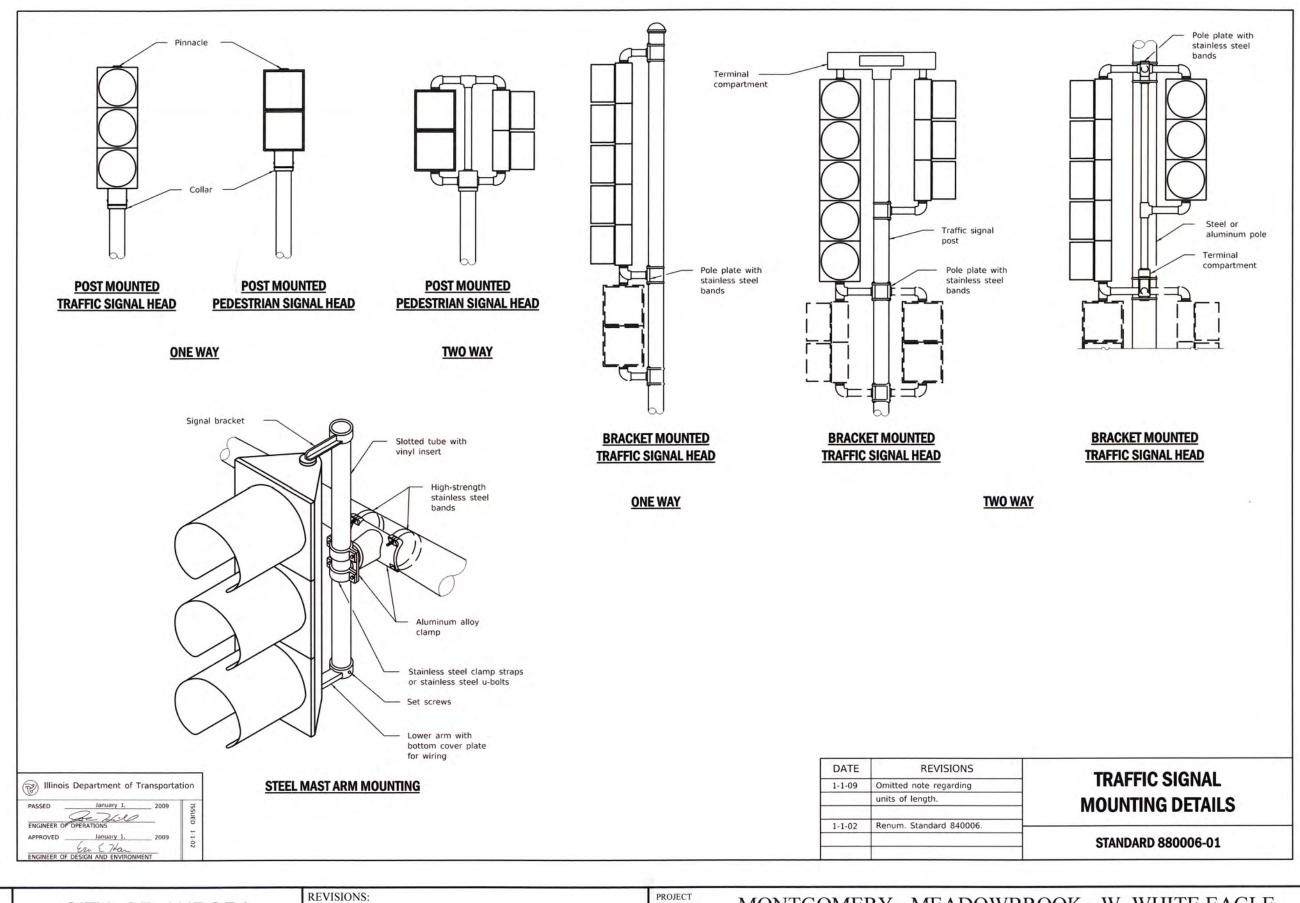
PROJECT

SHEET TITLE

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET NUMBER

MISCELLANEOUS STANDARD DETAILS



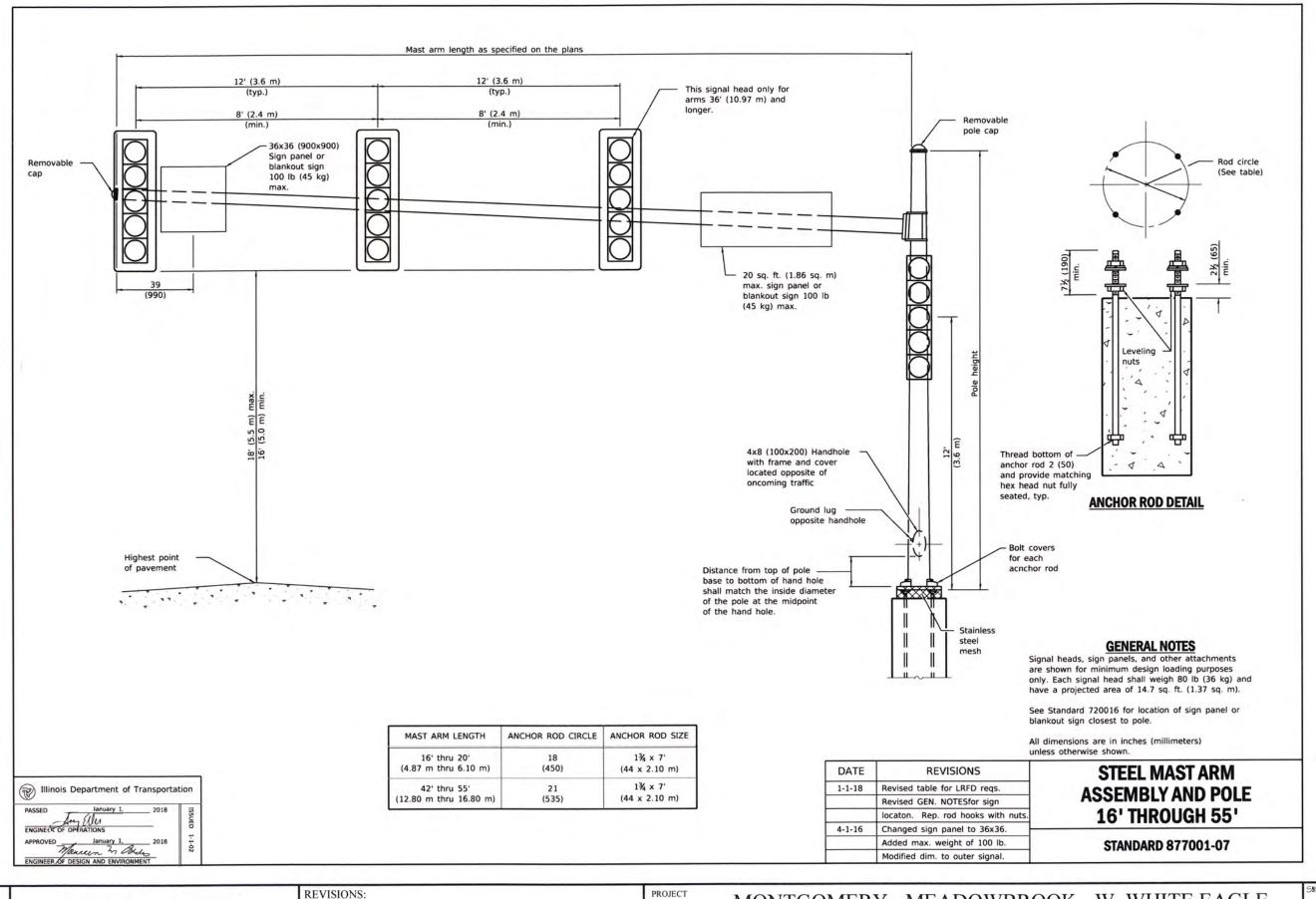


PROJECT

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

CHECKED BY: RG SCALE: DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019 SHEET TITLE

MISCELLANEOUS STANDARD DETAILS





REVISIONS:

DESIGNED BY: GIL | CHECKED BY: RG | SCALE:

DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

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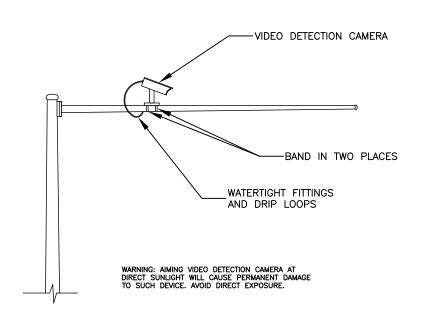
SHEET TITLE

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

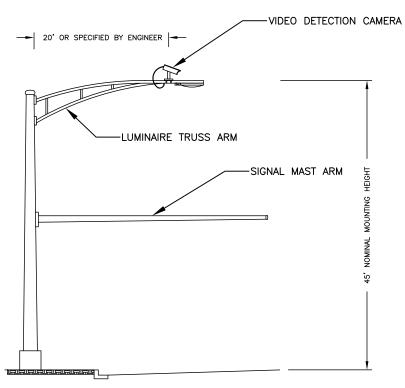
SSHEET NUMBER

TOTAL SHEETS

MISCELLANEOUS STANDARD DETAILS

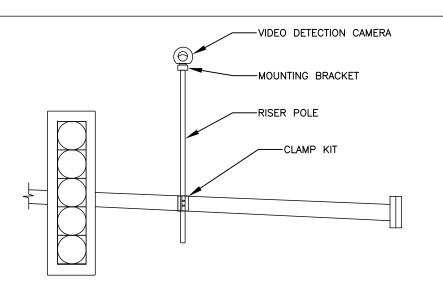


VIDEO DETECTION CAMERA MOUNTING DETAIL (NOT TO SCALE)



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

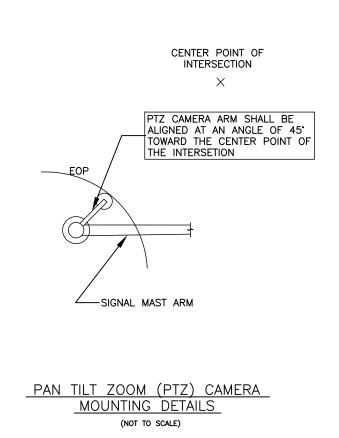
DRAWN BY: GIL



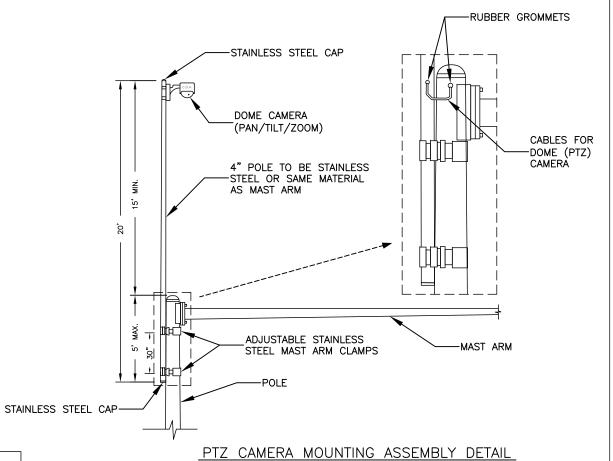
VIDEO DETECTION CAMERA BRACKET MOUNTING DETAIL (NOT TO SCALE)

NOTE:

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



COA - 2 VIDEO DETECTION CAMERA / PTZ MOUNTING DETAILS DESIGNED: GIL DATE: 12/14/18 REVISED: REVISED: REVISED: REVISED:



(NOT TO SCALE)

DRAWN: GIL

APPROVED BY: RG | DATE: 4/2019

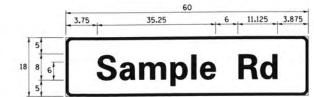


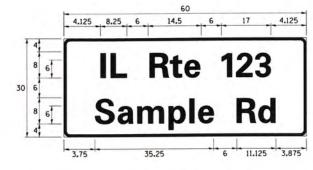
CITY OF AURORA **ENGINEERING DIVISION** 77 S. BROADWAY

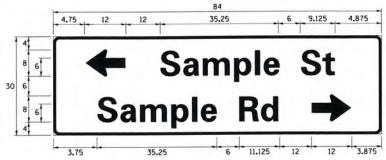
REVISIONS: PROJECT MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL SHEET TITLE DESIGNED BY: GIL CHECKED BY: RG | SCALE:

TOTAL SHEETS MISCELLANEOUS STANDARD DETAILS 40

SIGN PANEL - TYPE 1 OR TYPE 2







SIGN PANEL SHEETING OTY.
TYPE TYPE REQUIRED (SO FT) 1 OR 2

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

	ADDDELLATION	WIDTH (INCH)			
NAME	ABBREVATION	SERIES "C"	SERIES "D"		
AVENUE	Ave	15.000	18.250		
BOULEVARD	Blvd	17. 125	20.000		
CIRCLE	Cir	11.125	13.000		
COURT	C†	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	PI	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		

- 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, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" × 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)
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-O". ALL BORDERS SHALL BE ¾" 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.
- 4. 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'-O" IN WIDTH, IF SERIES "D" DOES NOT FIT ON A 8"-O" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-O" 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
- 5. 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.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND

PARTS LISTING: LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC WESTERN REMAC, INC.

WOODRIDGE, IL

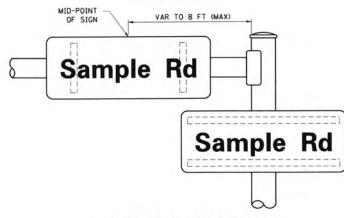
SIGN CHANNEL BRACKETS

PART *HPN053 (MED. CHANNEL) 1/4" x 14 x 1" H.W.H. *3
SELF TAPPING WITH NEOPRENE WASHER PART *HPNO34 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

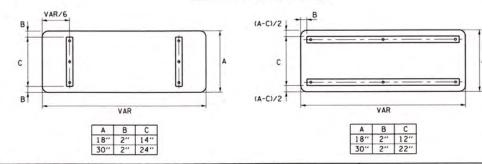
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

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

	FHWA SEF	RIES "C"		FHWA SERIES "D"					
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)		
Α	0.240	5.122	0.240	A	0.240	6.804	0.240		
В	0.880	4.482	0.480	В	0.960	5. 446	0.400		
C	0.720	4.482	0.720	С	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		
н	0.880	4.482	0.880	н	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 6. 244			
M	0.880	5. 284	0.880	M N	0. 960		0.960		
N	0.880	4. 482	0.880	0	0. 800	5. 446	0.800		
0 P	0.720	4. 722	0. 720	P	0. 960	5. 446	0. 240		
0	0.880	4. 482	0. 720	0	0. 800	5. 684	0.800		
R	0.720	4. 722	0. 480	R	0. 960	5. 446	0.400		
S	0.880	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		
Ü	0.880	4. 482	0.880	Ü	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		
×	0. 240	4. 722	0. 240	X	0.400	5. 446	0.400		
Ŷ	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	ь	0.800	4.802	0.480		
С	0.480	4.002	0. 240	С	0.480	4. 722	0. 240		
d	0.480	4.082	0. 720	d	0.480	4.802	0.800		
е	0.480	4.082	0. 320	е	0.480	4. 722	0. 320		
f	0. 320	2.480	0.160	f	0. 320	2.882	0.160		
9	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		
1	0.720	1.120	0.720	1	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		
-1	0.720	1.120	0.720	1	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		
0	0.480	4.082	0.480	0	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		
+	0.080	2.882	0.080	+	0.080	3. 202	0.080		
U	0.640	4.082	0.720	U	0.720	4. 722	0.800		
٧	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		
×	0.000	5. 202	0.000	×	0.000	6. 244	0.000		
У	0.160	4. 962	0.160	У	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	0	0.800	5. 684	0.800		
0	0.720	4. 722 2. 802	0. 720	-	0. 800	2. 802	0. 240		
	U. 24U	2.002	0. 240		0. 240	2.002	0. 240		

FILE NAME =	USER NAME : drivekosgn	DESIGNED - LP/IP	REVISED - LP 07/01/2015				DIS	STRICT O	NE		RTE.	SECTION	COUNTY	SHEETS NO.
pwt\\IL084EBIDINTEG.sllsnoss.govsPWID0T\Do	uments\IDOT Offices\District I\Projects\Dist	ORAWN\CADDete\C4/Bheets\ts82.dgn	REVISED -	STATE OF ILLINOIS		MAST ARM				E CICNE				
	PLOT SCALE = 50.0000 '/ in.	CHECKED - IP	REVISED -	DEPARTMENT OF TRANSPORTATION			N MOOI					TS-02	CONTRACT	NO.
Default	PLOT DATE = 7/31/2015	DATE - 10/01/2014	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

SHEET TITLE



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

REVISIONS:

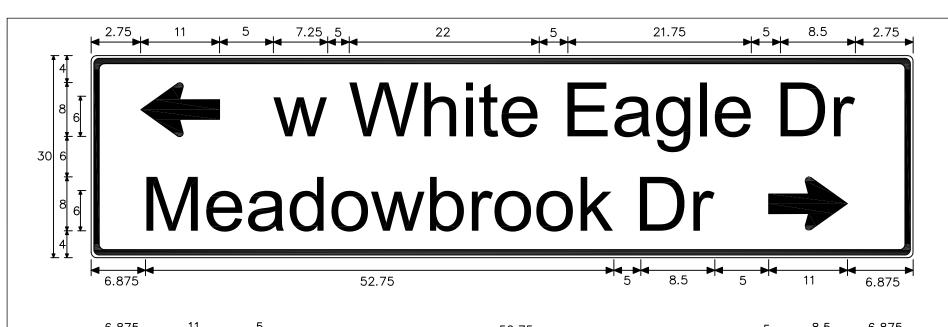
CHECKED BY: RG SCALE: DESIGNED BY: GIL DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019 PROJECT

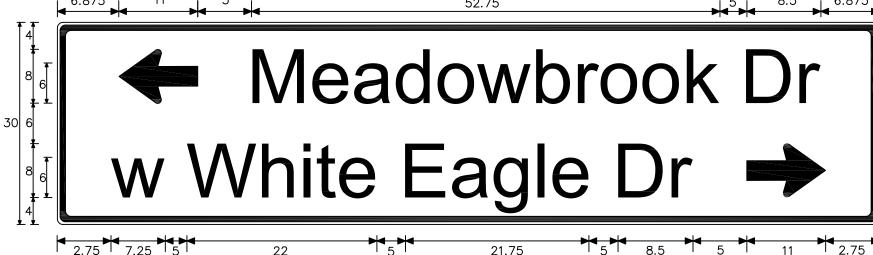
MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET NUMBER

MISCELLANEOUS STANDARD DETAILS

TOTAL SHEETS





Montgomery Rd

21.75

MAST ARM MOUNTED STREET NAME SIGNS

DESIGNED BY: GIL

DRAWN BY: GIL

CHECKED BY: RG | SCALE:

APPROVED BY: RG DATE: 4/2019

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.

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

(x2)

8 DIA. 1 I CITY OF **AURORA**

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".)

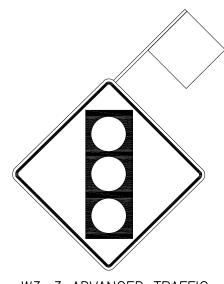


W. WHITE EAGLE ADVANCED LANE CONFIGURATION SIGNAGE (30x30 - NOT TO SCALE)



MEADOWBROOK ADVANCED LANE CONFIGURATION SIGNAGE

(30x30 - NOT TO SCALE)



W3-3 ADVANCED TRAFFIC CONTROL SIGN W/ FLAG (x2) FLAG TO BE INCLUDED IN COST OF PAY ITEM W3-3 SIGN PANEL -TYPE 1

(30x30 - NOT TO SCALE)

ALL DIMENSIONS PROVIDED ARE IN INCHES.

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

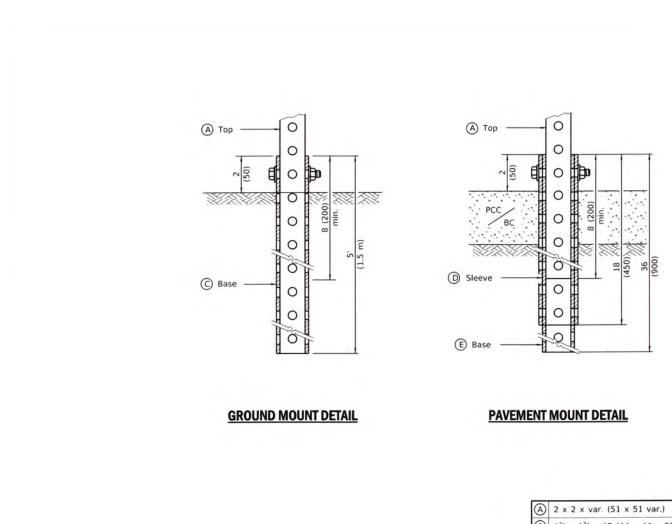
REVISIONS: PROJECT MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL SHEET TITLE

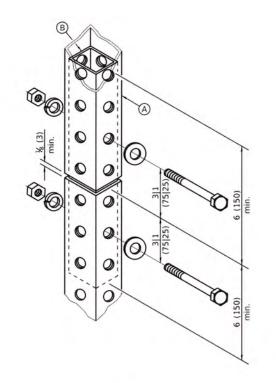
ALL BRACKETS AND MOUNTING HARDWARE NECESSARY TO MOUNT SIGNS ON MAST ARMS AND POLES INCLUDED IN COST OF PAY ITEM

SIGN PANEL - TYPE 1 AND 2

MISCELLANEOUS STANDARD DETAILS

TOTAL SHEETS





SPLICE DETAIL

B 1¾ x 1¾ x 12 (44 x 44 x 300) C) 2½ x 2½ x 60 (57 x 57 x 1500) D 2½ x 2½ x 18 (64 x 64 x 450) E) 21/4 x 21/4 x 36) (57 x 57 x 900)

GENERAL NOTES

All bolts % (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



CITY OF AUROR **ENGINEERING DIVIS** 77 S. BROADWAY

RA SION	REVISIONS.		
Y	DESIGNED BY: GIL	CHECKED BY: RG	SCALE:
•	DRAWN BY: GIL	APPROVED BY: RG	DATE: 4/2019

REVISIONS: ESIGNED BY: GIL CHECKED BY: RG | SCALE: PROJECT

SHEET TITLE

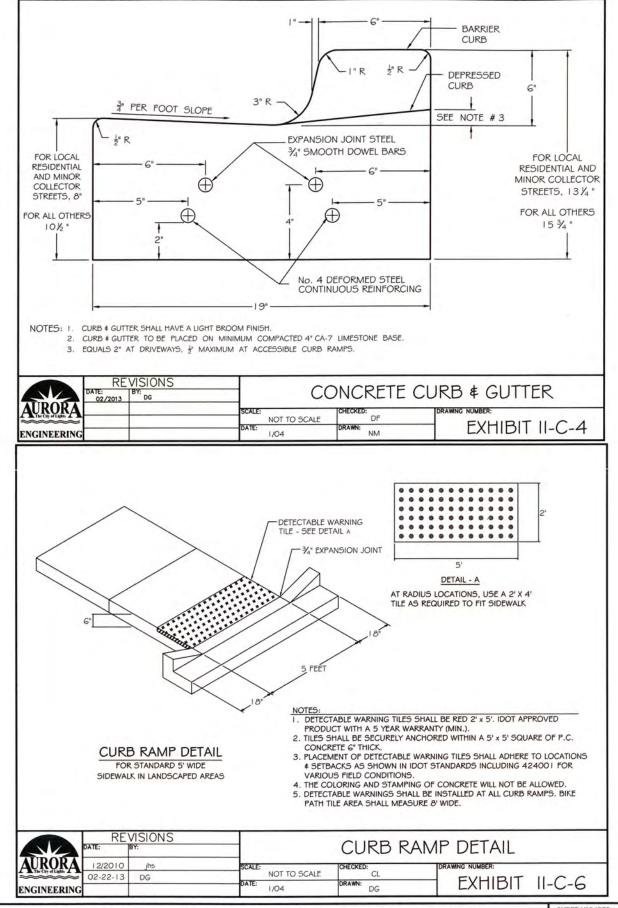
MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

MISCELLANEOUS STANDARD DETAILS

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.

	01/2011	VISIONS BY: Jhs	CURB AND GUTTER GENERAL NOTES				
AUKUKA	02/2013	DG	SCALE	CHECKED	DRAWING NUMBER		
ENGINEERING			DATE: 03/08	J. MOORE	EXHIBIT II-C-5		





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

DESIGNED BY: GIL DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

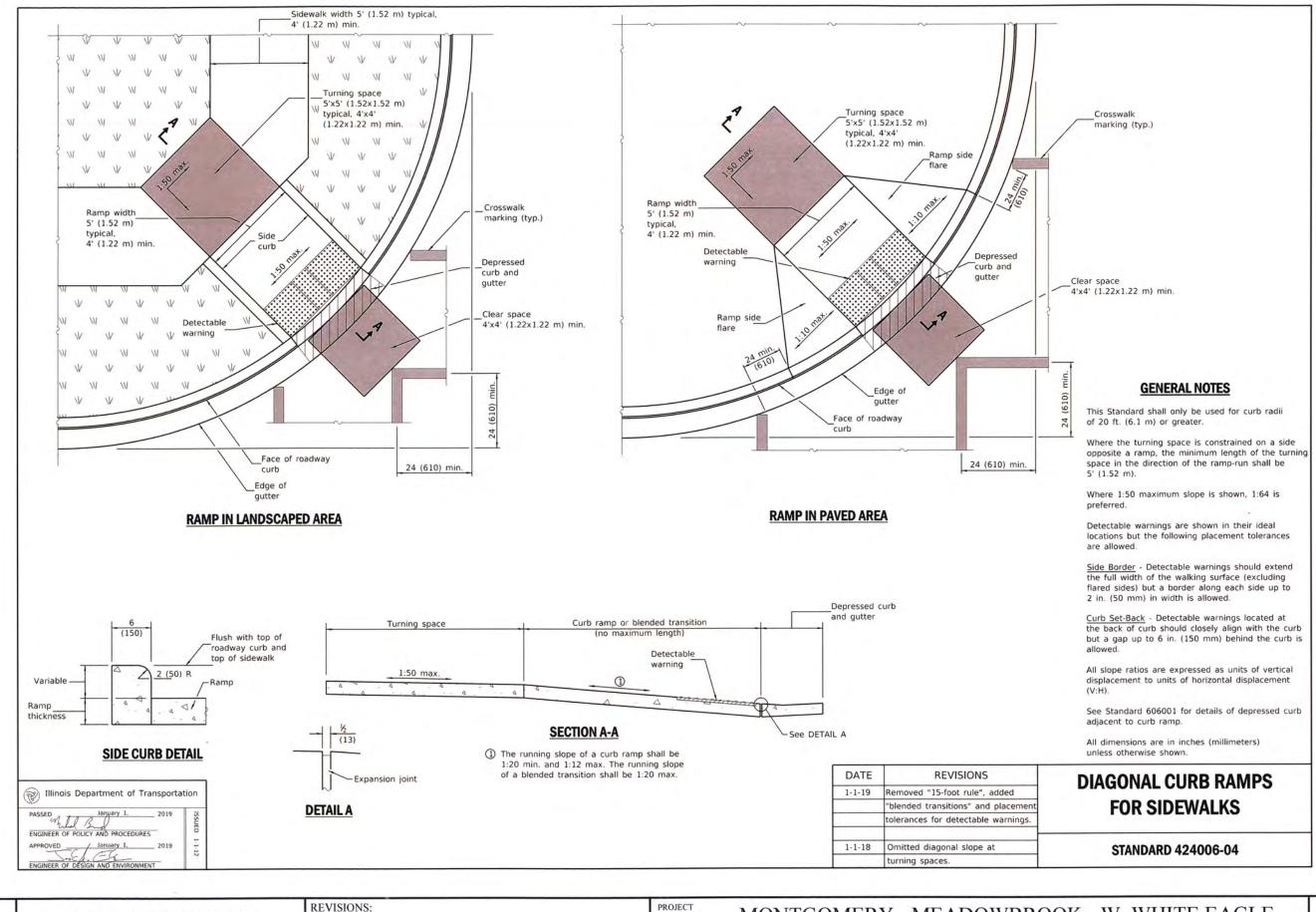
REVISIONS:

PROJECT

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET TITLE CHECKED BY: RG | SCALE:

MISCELLANEOUS STANDARD DETAILS



SHEET TITLE

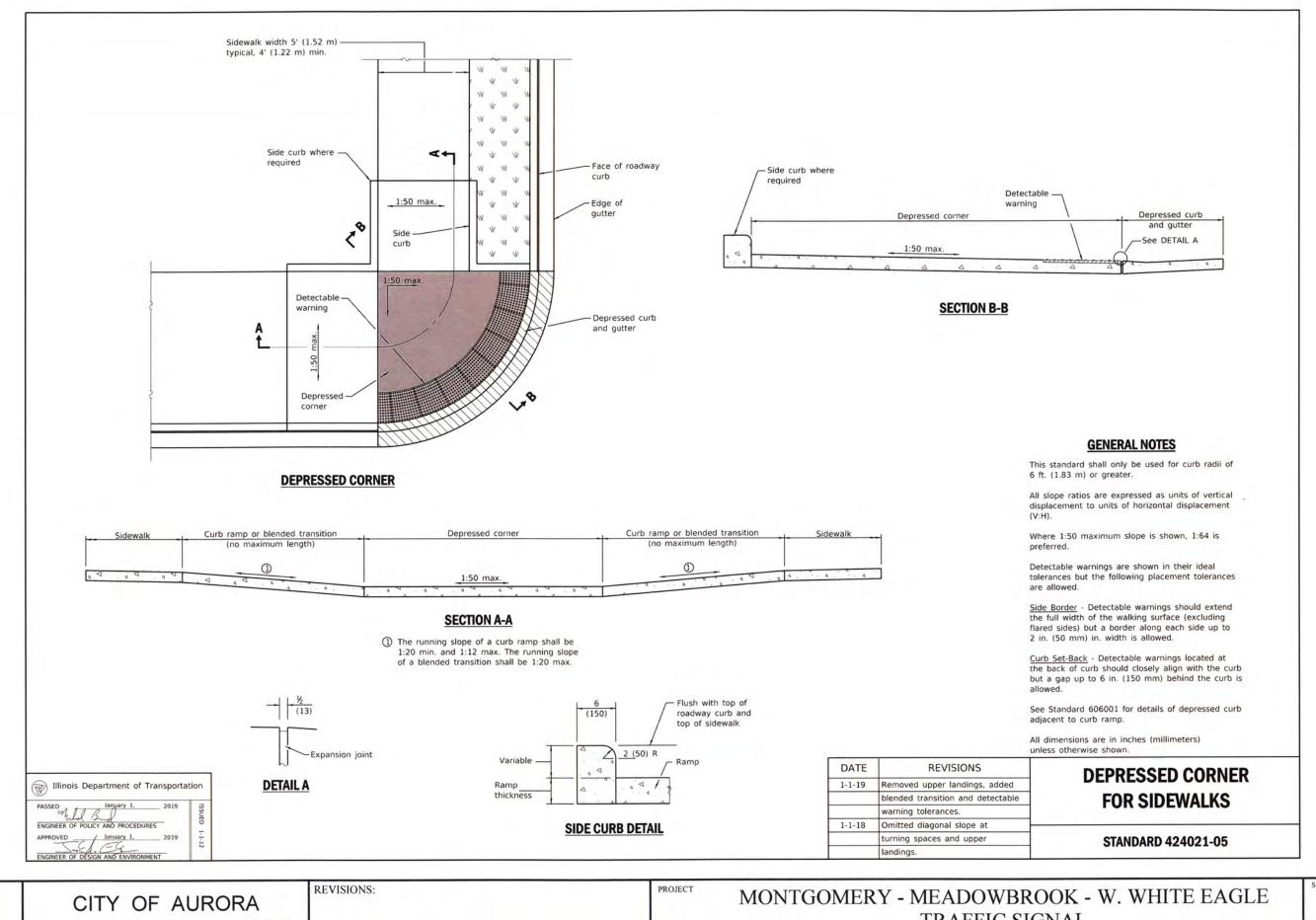


CITY OF AURORA **ENGINEERING DIVISION** 77 S. BROADWAY

REVISIONS:		
	CHECKED BY: RG	
DRAWN BY: GIL	APPROVED BY: RG	DATE: 4/2019

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

MISCELLANEOUS STANDARD DETAILS



SHEET TITLE



ENGINEERING DIVISION 77 S. BROADWAY

DESIGNED BY: GIL DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

CHECKED BY: RG

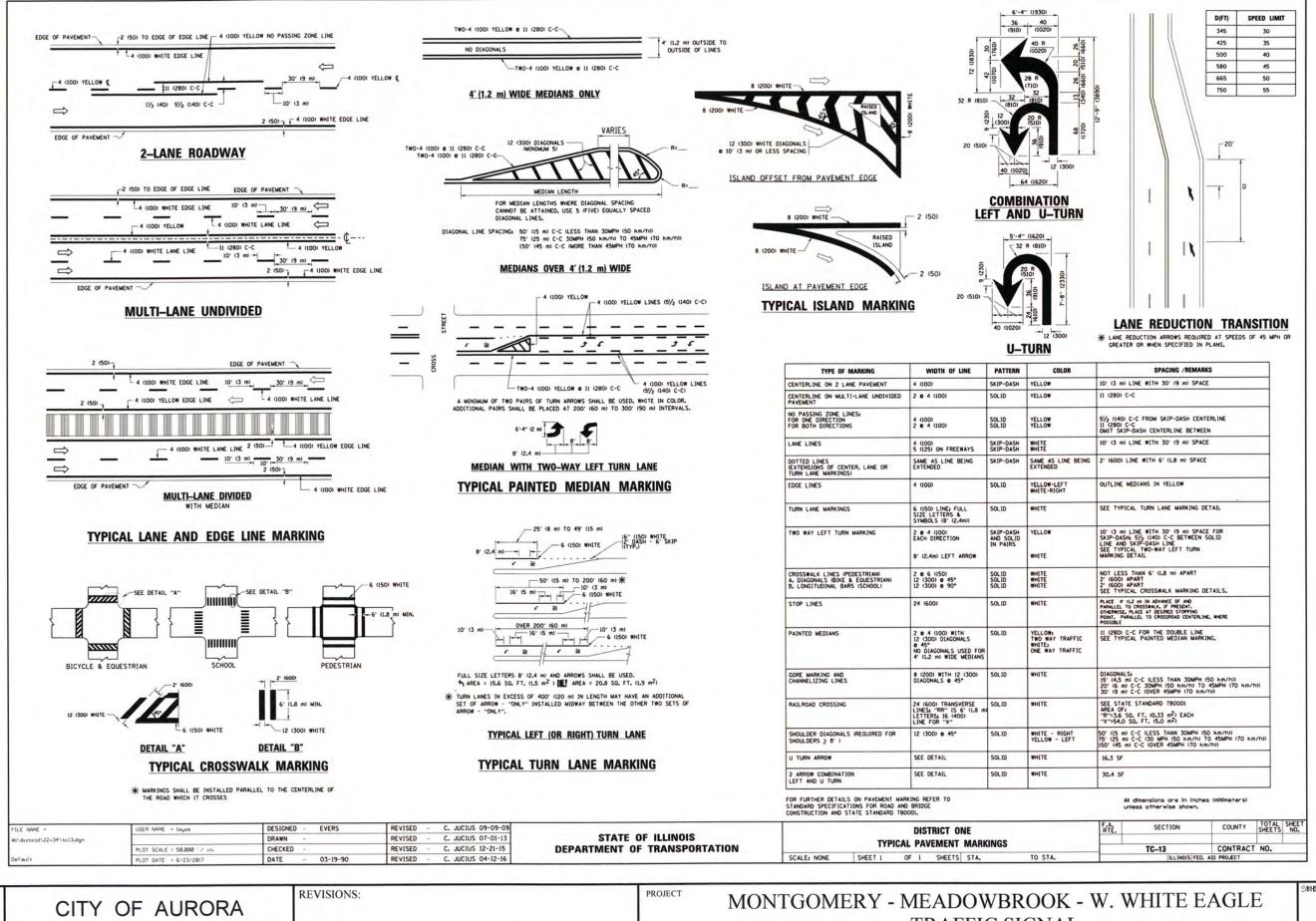
SCALE:

TRAFFIC SIGNAL

SHEET NUMBER

30 TOTAL SHEETS

MISCELLANEOUS STANDARD DETAILS





ENGINEERING DIVISION 77 S. BROADWAY

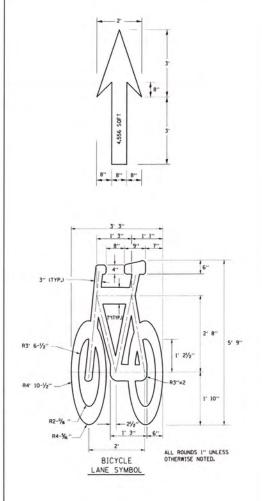
CHECKED BY: RG | SCALE: DESIGNED BY: GIL DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

SHEET TITLE

TRAFFIC SIGNAL

3

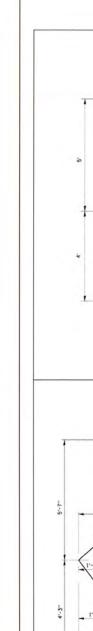
MISCELLANEOUS STANDARD DETAILS

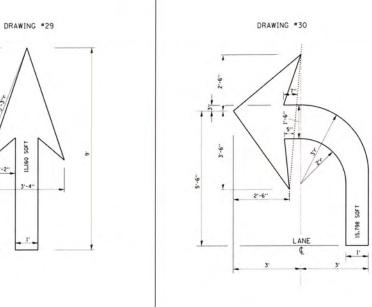


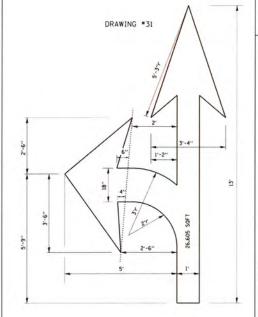
NOTE:
1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS. MINIMUM SKID RESISTANCE VALUE OF 60 BPN. & A MINIMUM INDEX OF REFRACTION OF 1.50.

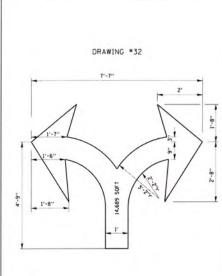
2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

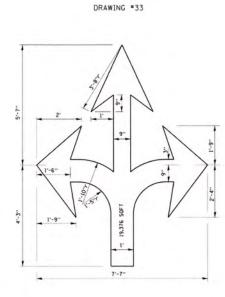
TYPICAL BIKE LANE SYMBOLS

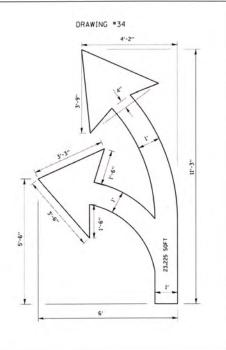


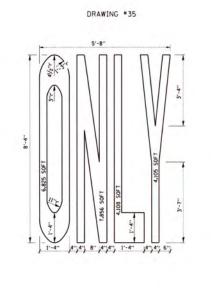












ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

REVISED - K.	. ENG	02-28-1
REVISED -		
REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT

				0	:ITY	OF CHIC	AGO	
		т	YP	CAL	PA	VEMENT	MARKINGS	
SCALE: NONE	SHEET	NO.	2	OF	3	SHEETS	STA.	TO STA.

F.A RTE.	SEC	TION		COUNTY	TOTAL	SHE
	TC-24			CONTRACT	NO.	-
FED. ROAD	DIST. NO. 1	ILLINOIS	FED. Al	D PROJECT		



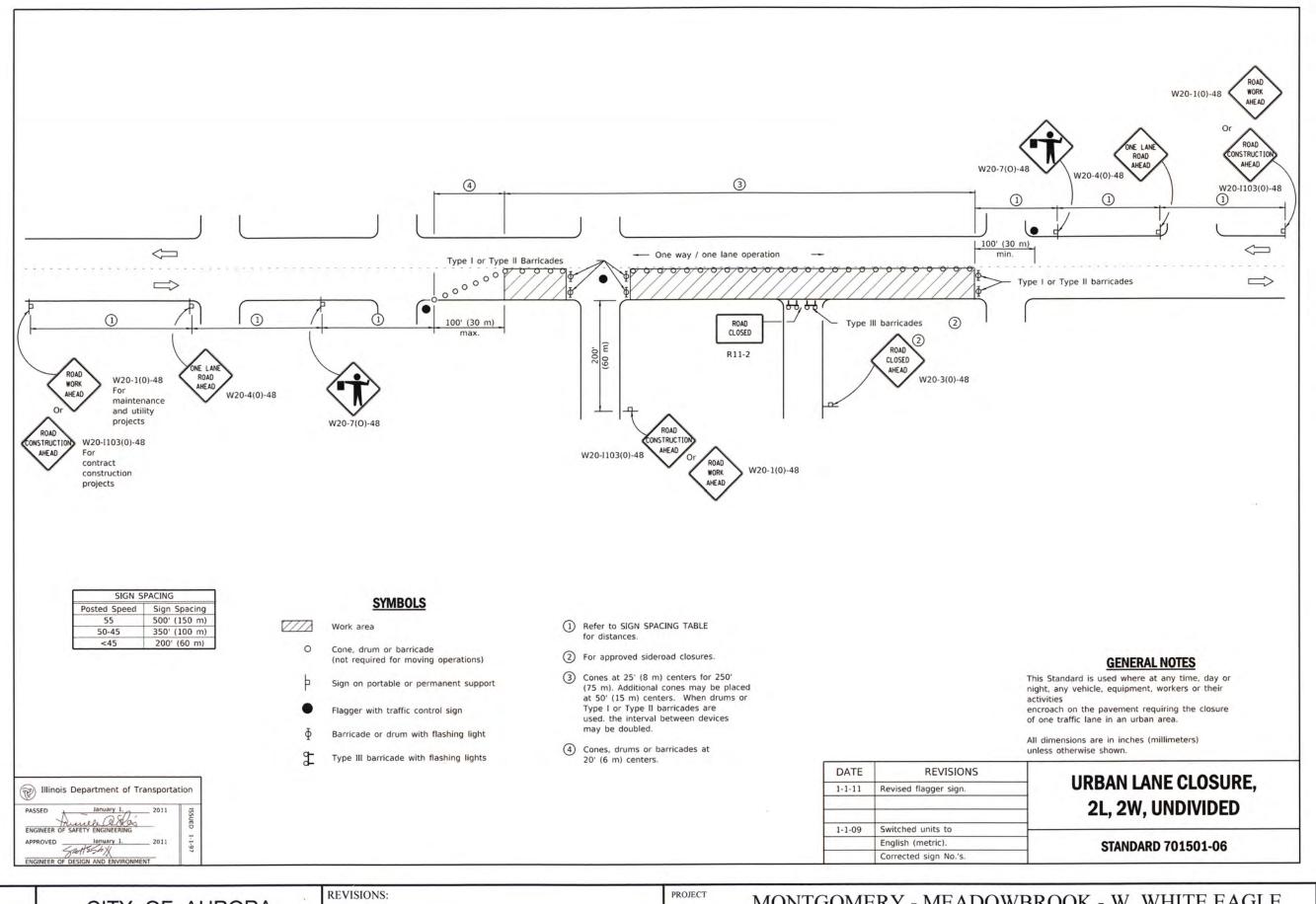
CITY OF AURORA **ENGINEERING DIVISION** 77 S. BROADWAY

REVISIONS:

DESIGNED BY: GIL

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET TITLE CHECKED BY: RG SCALE: MISCELLANEOUS STANDARD DETAILS DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019





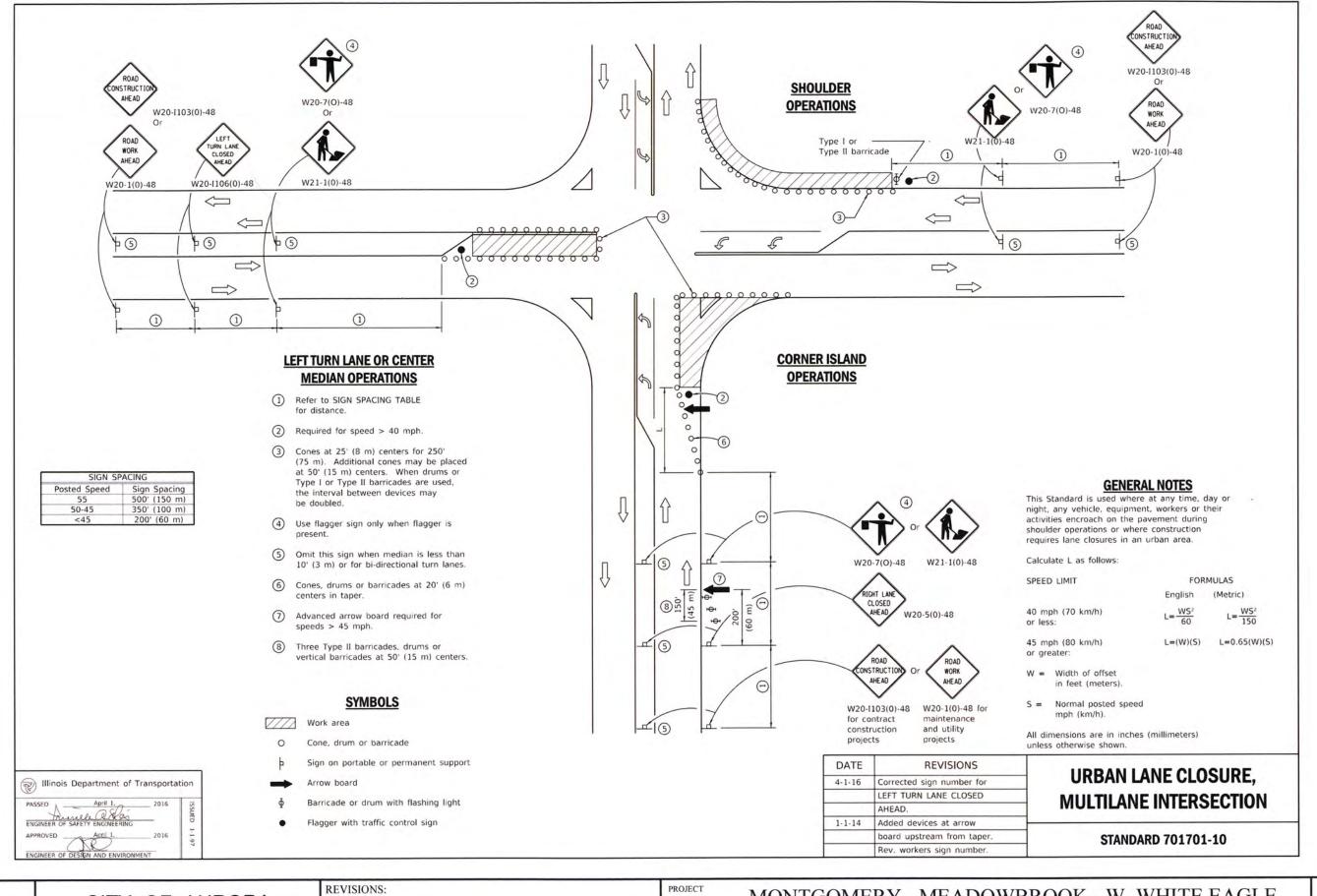
MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

33

CHECKED BY: RG | SCALE: DESIGNED BY: GIL DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

SHEET TITLE

MISCELLANEOUS STANDARD DETAILS





DESIGNED BY: GIL CHECKED BY: RG SCALE:

DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

PROJECT

SHEET TITLE

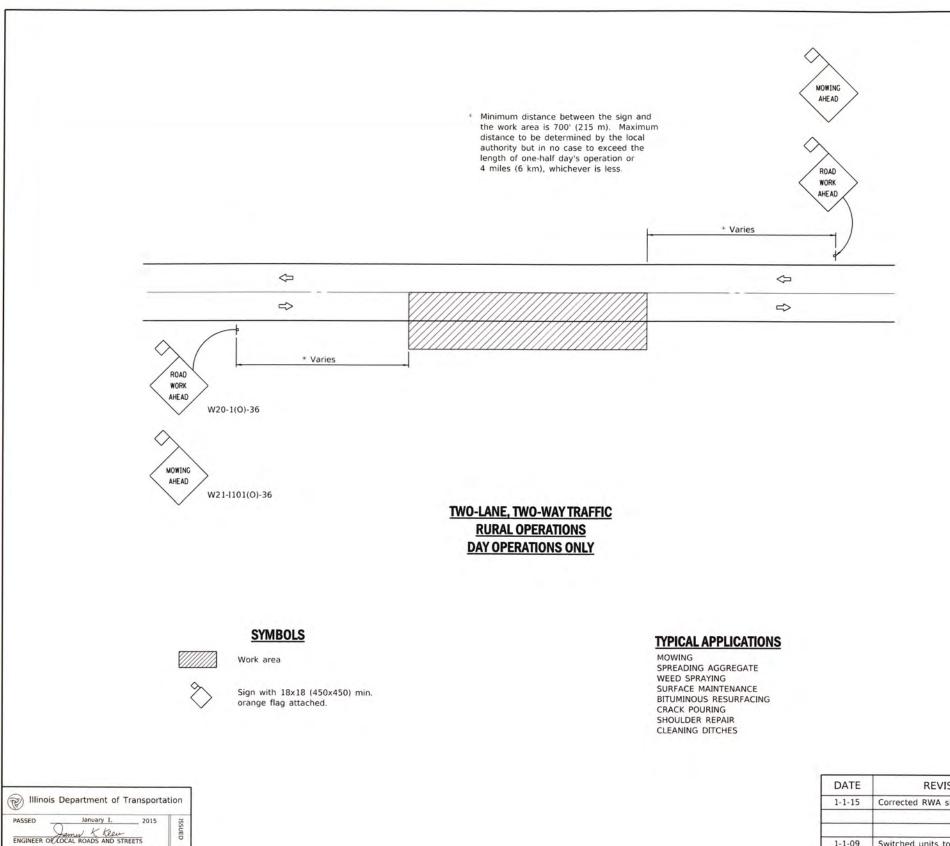
MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET NUMBER

TRAFFIC SIGNAL

TOTAL SHEETS

MISCELLANEOUS STANDARD DETAILS



GENERAL NOTES

Maintenance operations shall be confined to one traffic lane, leaving the opposite lane open to traffic. At least 500' (150 m) of both traffic lanes shall be available for traffic movement between work areas at intervals not greater than 1000' (300 m).

When operations are on the pavement and stationary or moving at a speed less than 4 mph (6 kph), a ONE LANE AHEAD, or other appropriate sign, shall be installed in each direction between the ROAD WORK AHEAD sign and the work area. The distance between this sign and the work area shall be a minimum of 400' (120 m) but in no case to exceed the length of one-half day's operation or 4 miles (6 km), whichever is less. The distance between the two signs shall be approximately 400' (120 m).

All signs are to be removed at completion of the day's operation.

Any unattended obstacle, excavation, or pavement drop off greater than 3 (75) in the work area shall be protected by Type I or Type II barricades

Longitudinal dimensions may be adjusted slightly to fit field conditions.

All vehicles, equipment, men, and their acitvities are restricted at all times to one side of the

Flashing lights or rotating beacons are required for all maintenance vehicles while in operation.

Applicable operations illustrated in Standard 701301 may be used when operations do not exceed 15 minutes on the pavement or 60 minutes on the shoulder respectively.

All warning signs shall have minimum dimensions of 36x36 (900x900) and have black legend on an orange reflectorized background.

When fluorescent signs are used, orange flags are not required.

This case is for use on rural local roads where the local authority considers this protection to be appropriate for the specific job conditions.

All dimensions are in inches (millimeters) unless otherwise shown

DATE	REVISIONS
1-1-15	Corrected RWA sign number.
1-1-09	Switched units to
	English (metric). Moved
	one General Note.

TRAFFIC CONTROL DEVICES-DAY LABOR MAINTENANCE

STANDARD B.L.R. 18-6



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

REVISIONS: DESIGNED BY: GIL DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

CHECKED BY: RG | SCALE:

PROJECT

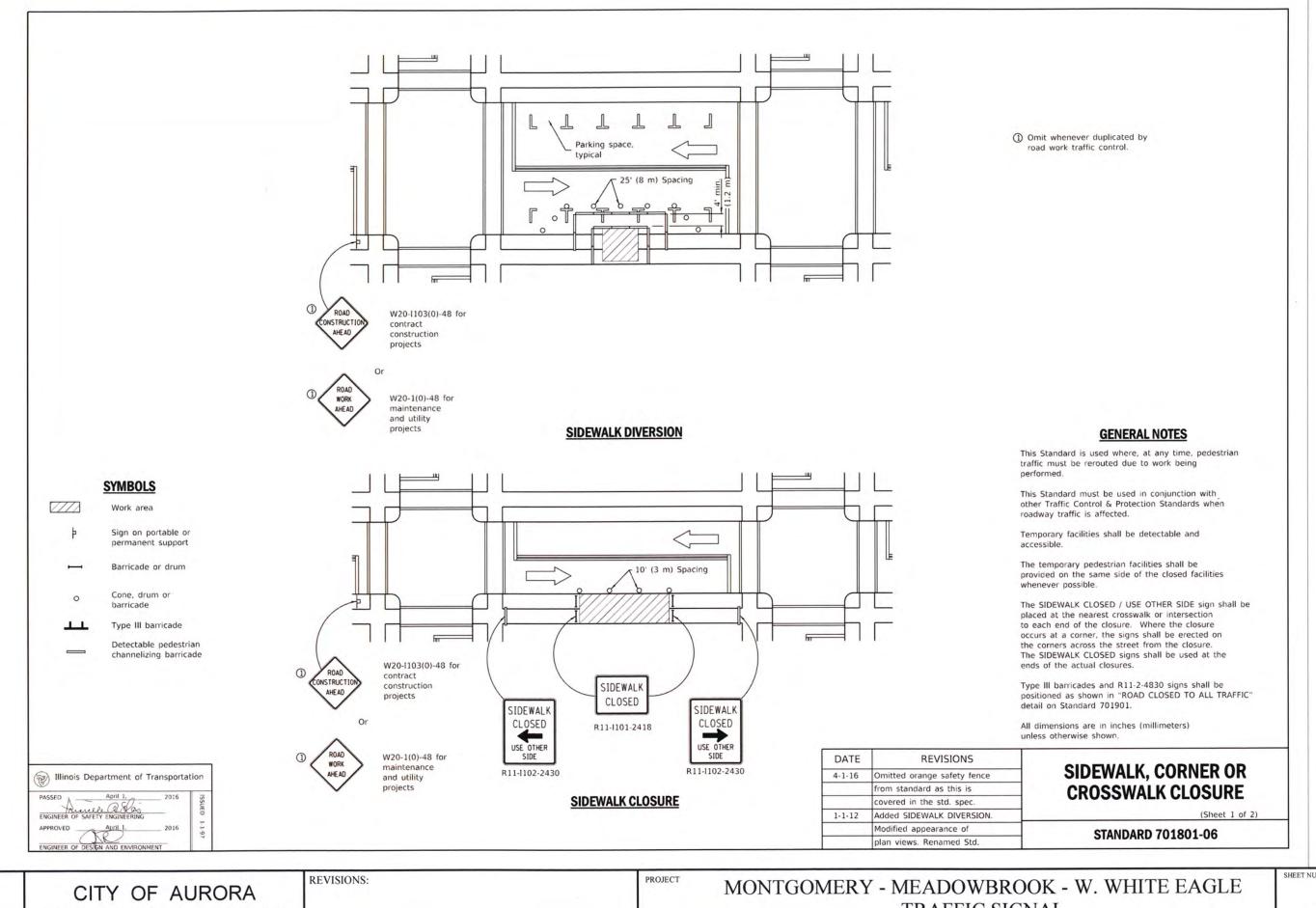
SHEET TITLE

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE

TRAFFIC SIGNAL

SHEET NUMBER 35

MISCELLANEOUS STANDARD DETAILS



SHEET TITLE



ENGINEERING DIVISION 77 S. BROADWAY

DESIGNED BY: GIL

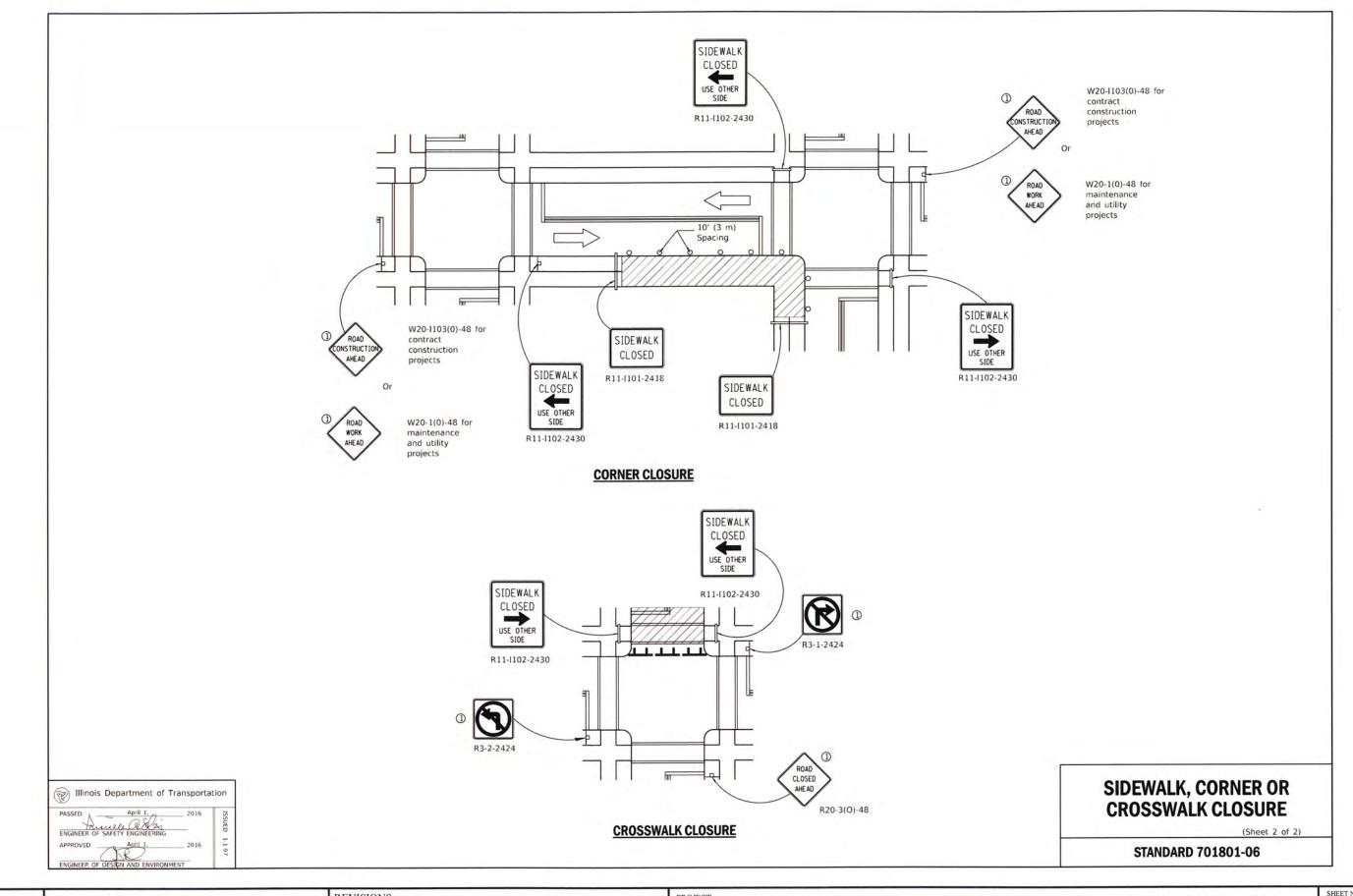
CHECKED BY: RG

DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

TRAFFIC SIGNAL

36

MISCELLANEOUS STANDARD DETAILS





DESIGNED BY: GIL CHECKED BY: RG

REVISIONS:

DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

SCALE:

PROJECT

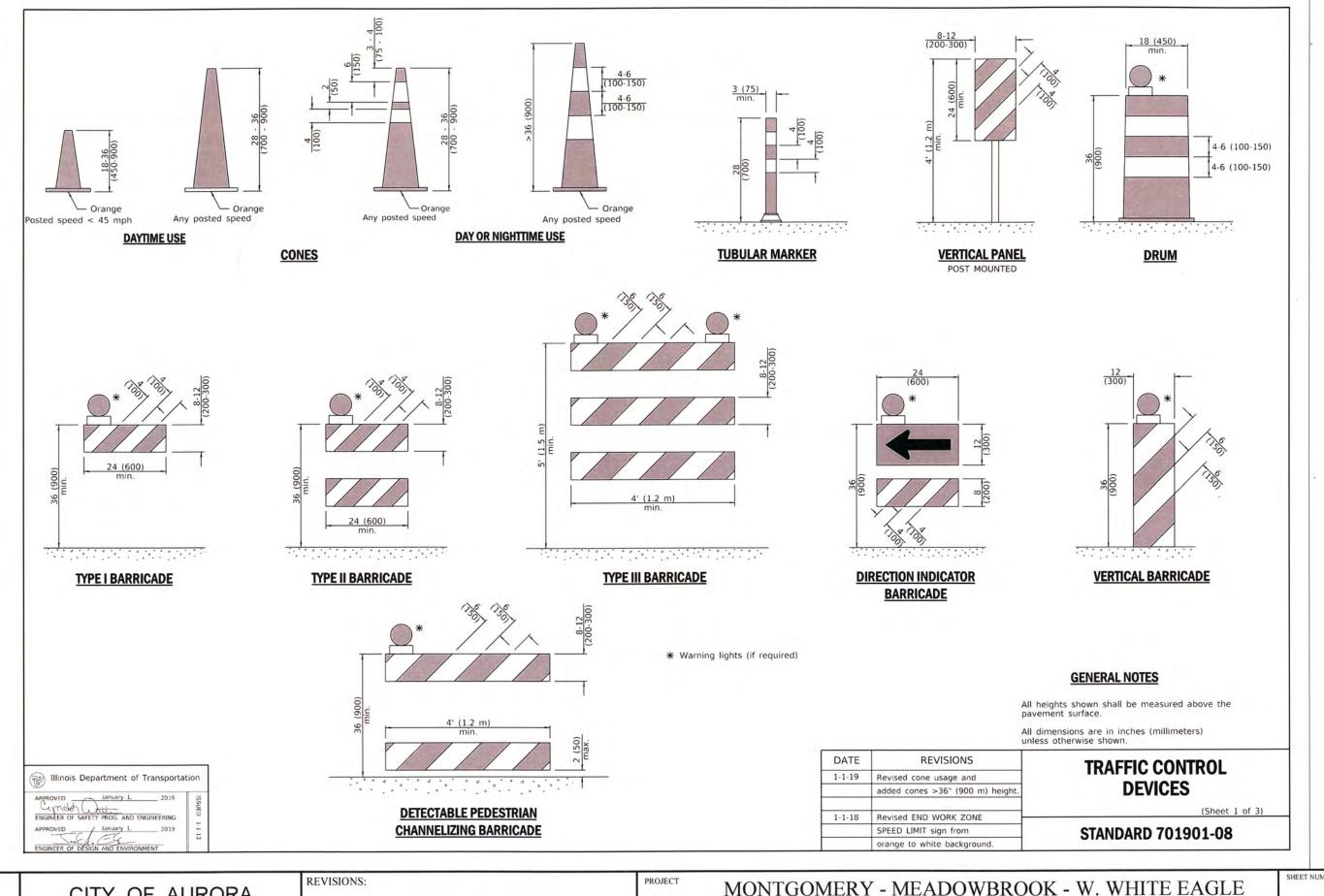
SHEET TITLE

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET NUMBER 37

TOTAL SHEETS

MISCELLANEOUS STANDARD DETAILS





DESIGNED BY: GIL

CHECKED BY: RG

DRAWN BY: GIL APPROVED BY: RG DATE: 4/2019

SCALE:

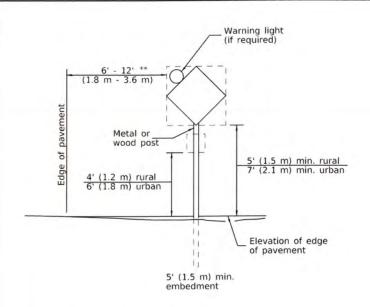
SHEET TITLE

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE

TRAFFIC SIGNAL

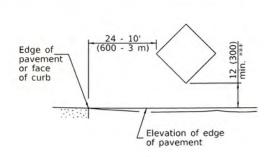
38

MISCELLANEOUS STANDARD DETAILS



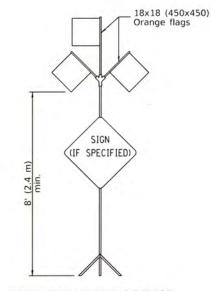
POST MOUNTED SIGNS

** 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

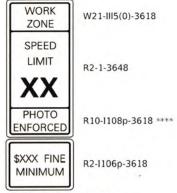
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of pro-

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 multilane highways.

WORK LIMIT SIGNING



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



G20-I103-6036

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

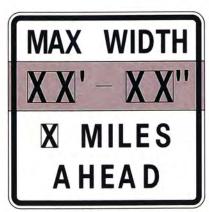
HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

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

TRAFFIC CONTROL **DEVICES**

(Sheet 2 of 3)

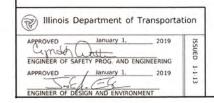
STANDARD 701901-08

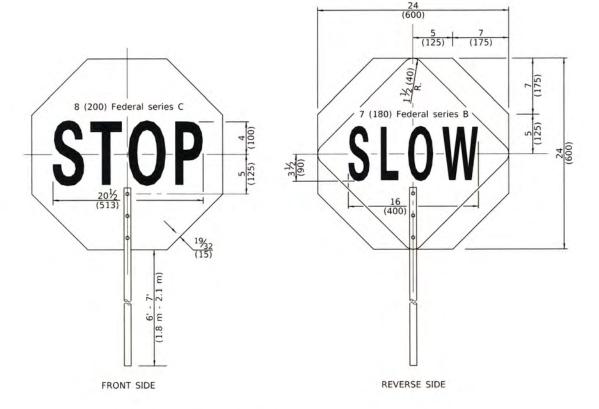


W12-I103-4848

WIDTH RESTRICTION SIGN

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





FLAGGER TRAFFIC CONTROL SIGN

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

REVISIONS: DESIGNED BY: GIL

DRAWN BY:

GIL

CHECKED BY: RG SCALE: APPROVED BY: RG DATE: 4/2019

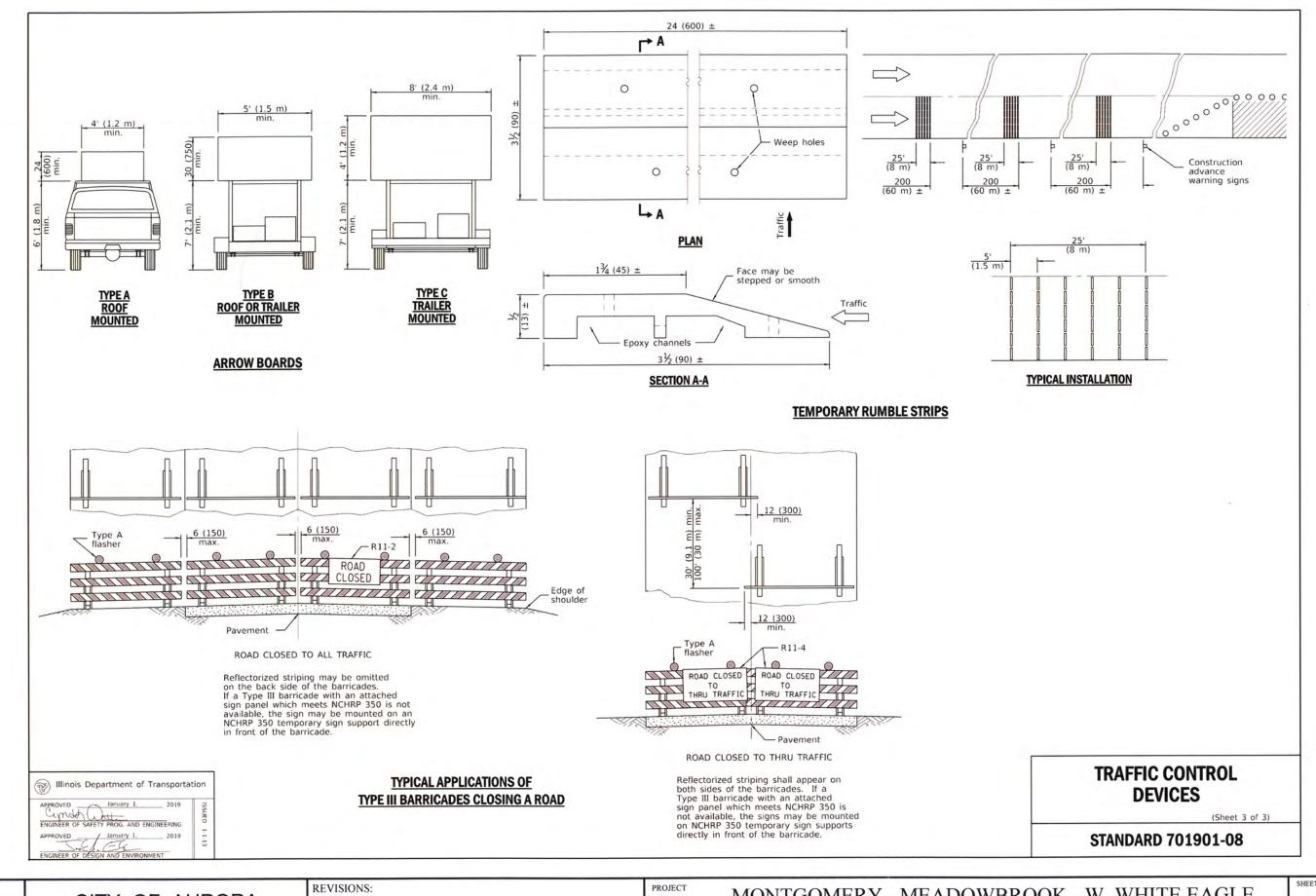
SHEET TITLE

PROJECT

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET NUMBER

MISCELLANEOUS STANDARD DETAILS





A SION	REVISIONS:		
/	DESIGNED BY: GIL	CHECKED BY: RG	SCALE:
•	DRAWN BY: GIL	APPROVED BY: RG	DATE: 4/2019

SHEET TITLE

MONTGOMERY - MEADOWBROOK - W. WHITE EAGLE TRAFFIC SIGNAL

SHEET NUMBER

TOTAL SHEETS

MISCELLANEOUS STANDARD DETAILS