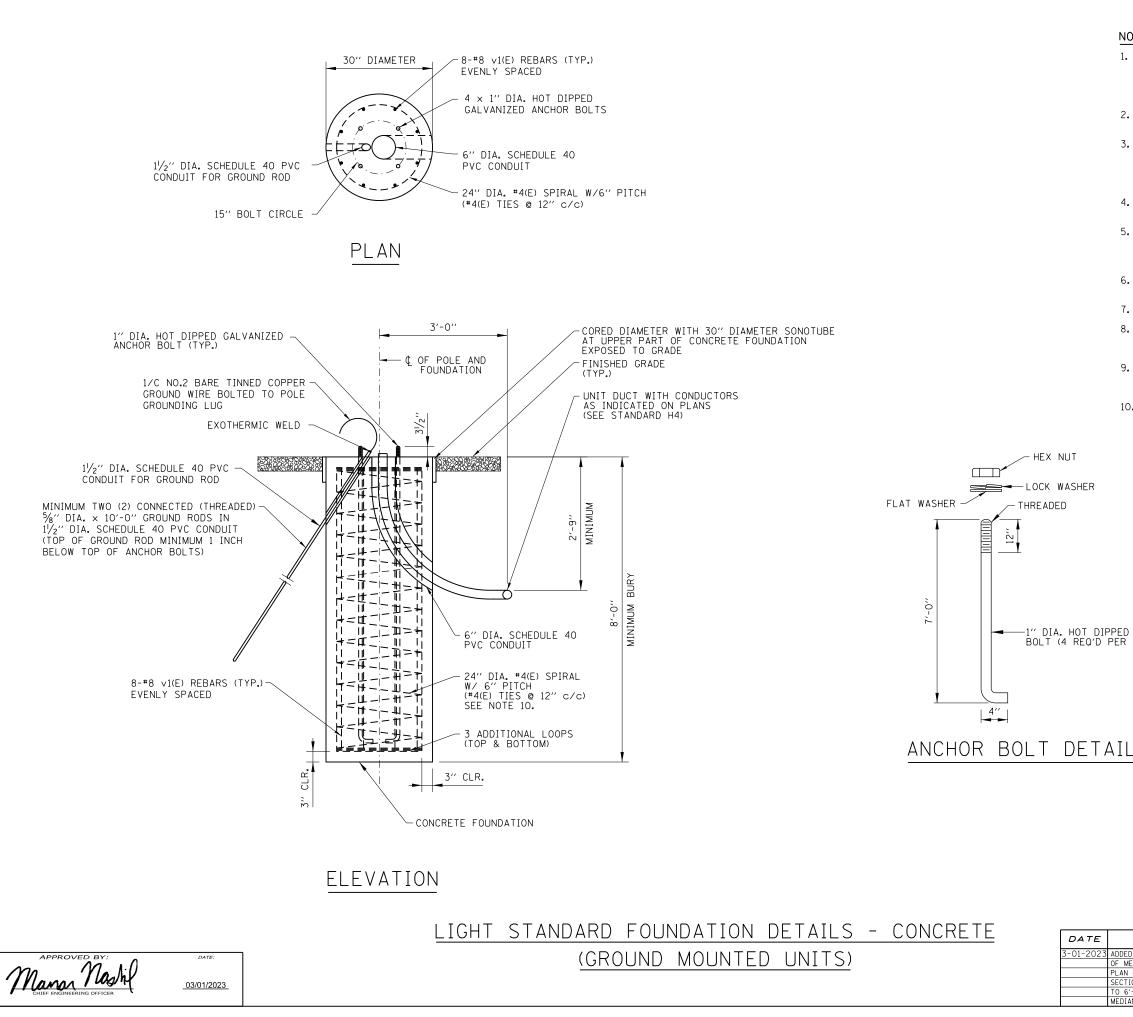
Illinois Tollway Standard Drawing Revisions

Section H	Roadway Lighti	ng	
	Standard	Modification Summary	Effective: 03-01-2023
	H1-11	LIGHT STANDARD FOUNDATION	
	Sheet 1	Revised v1(E) bars from #6 to #8.	
	Sheet 3	Revised plan view detail dimensions and v1(E) bars from #6 to #8.	of the median barrier to match section A-A
	Sheet 4	Revised plan view detail dimensions of the median barrier to match section D the length on anchor bolt detail to 6'-8 3/4" and v1(E) bars from #6 to #7.	
		Added note for anchor bolt length for slip forming.	
	Sheet 5	Revised plan view detail dimensions and v1(E) bars from #6 to #7.	of the median barrier to match section A-A
	Sheet 10	Revised v1(E) bars from #6 to #8.	
	H18-02	PARKING LOT LIGHT FOUNDATIO	N
		Revised v1(E) bars from #6 to #8	



New Sheet





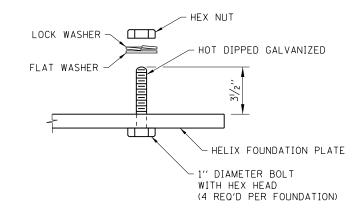
- AT LOCATIONS NOT SHIELDED BY GUARDRAIL, THE LIGHT POLE FOUNDATION SHALL BE FLUSH WITH SURROUNDING GRADED ON ALL SIDES. THE SURROUNDING AREA SHALL BE A LEVEL GRADED AREA CONSTRUCTED OF AGGREGATE SHOULDERS WITH FILTER 1. FABRIC, TYPE B, 4".
- PROVIDE SEEDING, POTASSIUM FERTILIZER NUTRIENT, AND EROSION CONTROL BLANKET AS REOUIRED. 2.
- THE TOP OF FOUNDATION SHALL BE AT THE SAME ELEVATION AS THE ADJACENT TOP OF GUTTER OR WHEN ADJACENT TO AGGREGATE SHOULDER, AT THE SAME ELEVATION AS THE OUTSIDE EDGE OF THE AGGREGATE SHOULDER SLOPED A 3. MAXIMUM 6% AWAY FROM THE PAVED SHOULDER.
- ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H). 4.
- ALL GROUND MOUNTED LIGHT POLES SHALL BE PROVIDED WITH AN ACCEPTED FHWA BREAKAWAY BASE OR DEVICE PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS SECTION 5. 1070.
- FOR DETAILS OF FUSE HOLDER, POLE BASE WIRING AND CONDUCTOR SPLICE SEE STANDARD H2. 6.
- ALL REINFORCEMENT BARS SHALL BE EPOXY COATED. 7.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE 8. NATIONAL ELECTRICAL SAFETY CODE.
- FOR ALL MEDIAN BARRIER FOUNDATIONS, THE ANCHOR BOLTS 9. CENTERLINE.
- ADJUST SPIRAL BAR SPACING AS NEEDED TO ACCOMMODATE CONDUIT ENTRANCE. 10.

-1" DIA. HOT DIPPED GALVANIZED ANCHOR BOLT (4 REQ'D PER FOUNDATION)

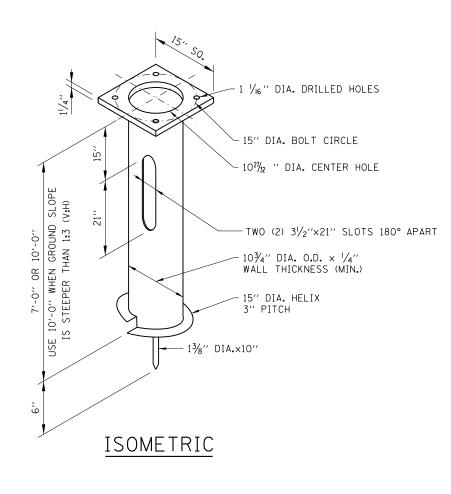
REVISIONS ADDED ANCHOR BOLT NOTE. REVISED PLAN DIMENSION OF MEDIAN BARRIER TO MATCH SECTION A-A. REVISED PLAN DIMENSION OF MEDIAN BARRIER TO MATCH LIGHT STANDARD FOUNDATION SECTION D-D & THE LENGTH OF ANCHOR BOLT DETAIL TO 6'-8¼". REVISED PLAN DIMENSIONS OF THE MEDIAN BARRIER TO MATCH SECTION A-A. STANDARD H1-11

SHEET 1 OF 10

'Illinois Tollway



BASE ATTACHMENT DETAIL



Marson Maship 03/01/2023 LIGHT STANDARD FOUNDATION DETAILS - HELIX (GROUND MOUNTED UNITS)

NOTES:

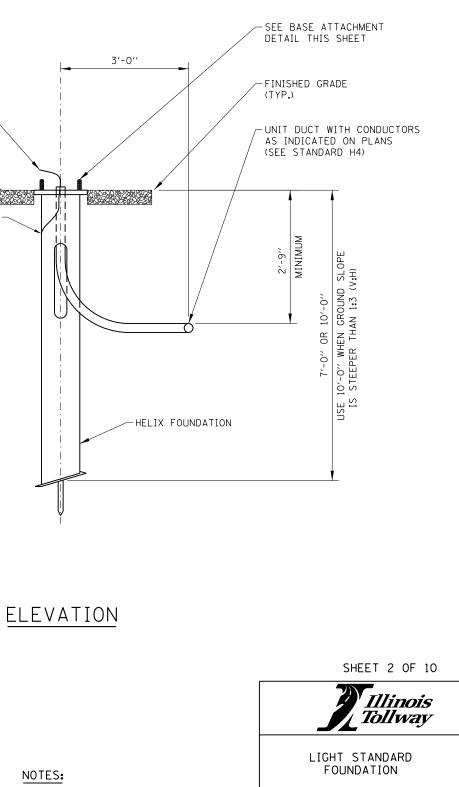
1/C NO.2 BARE TINNED COPPER

GROUNDING LUG

GROUND WIRE BOLTED TO T-BASE

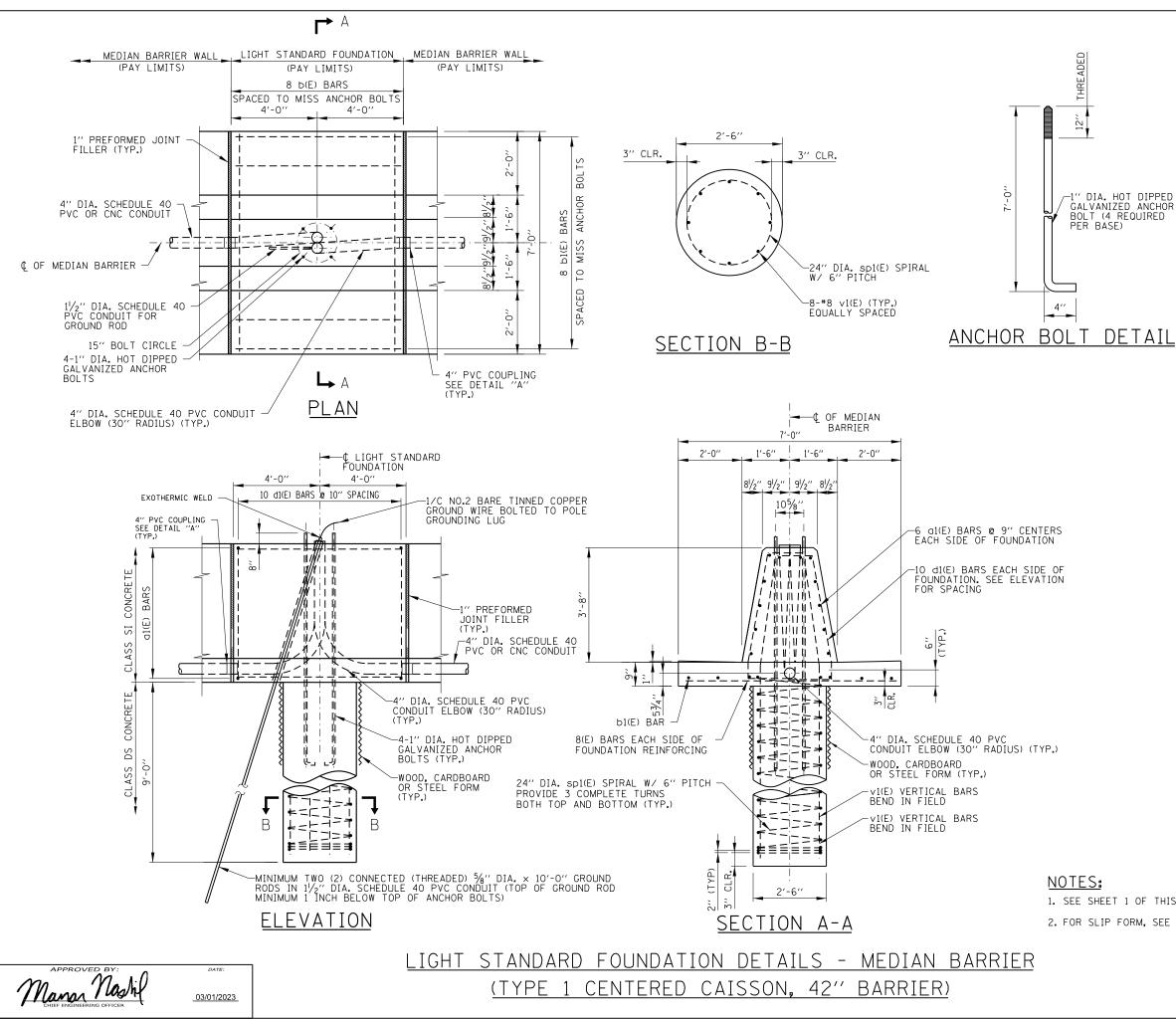
NOTE 1-

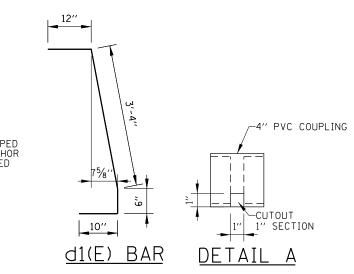
EXOTHERMIC WELD



SEE SHEET 1 OF THIS SERIES FOR NOTES.

STANDARD H1-11





	REINFORCEMENT BARS SCHEDULE						
BAR	N0.	SIZE	LENGTH	WT. LB.	SHAPE		
a1(E)	12	#4	7'-6''	60			
Ь(E)	8	#4	6'-6''	35			
Ь1(E)	8	#4	7'-8''	41			
d1(E)	20	#4	5'-8''	78	$\overline{}$		
sp1(E)	1	#4	*		×		
v1(E)	8	#8	11'-9''	251			

* SEE SECTION A-A

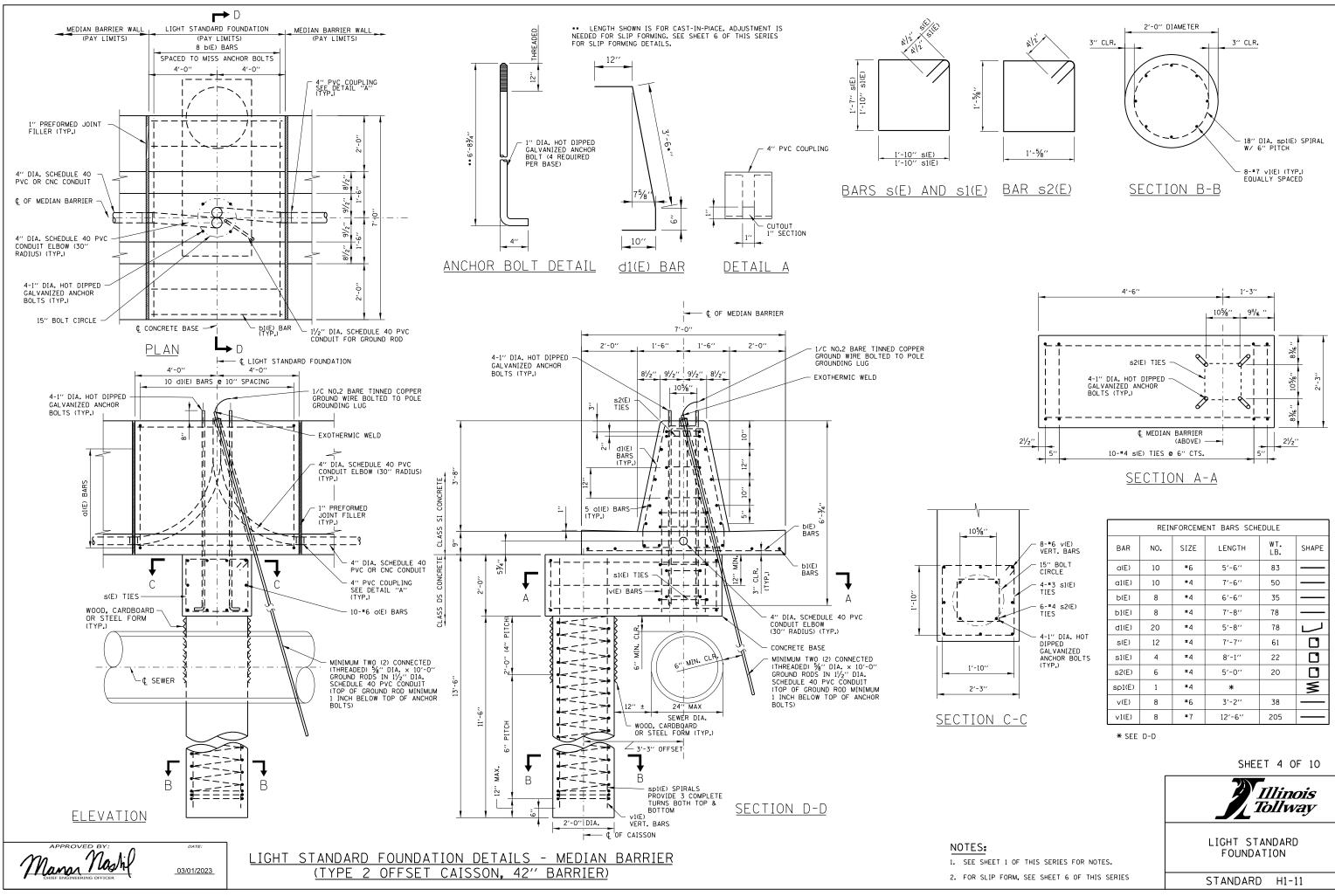
SHEET 3 OF 10

'Ill<u>in</u>ois Tollway

LIGHT STANDARD FOUNDATION

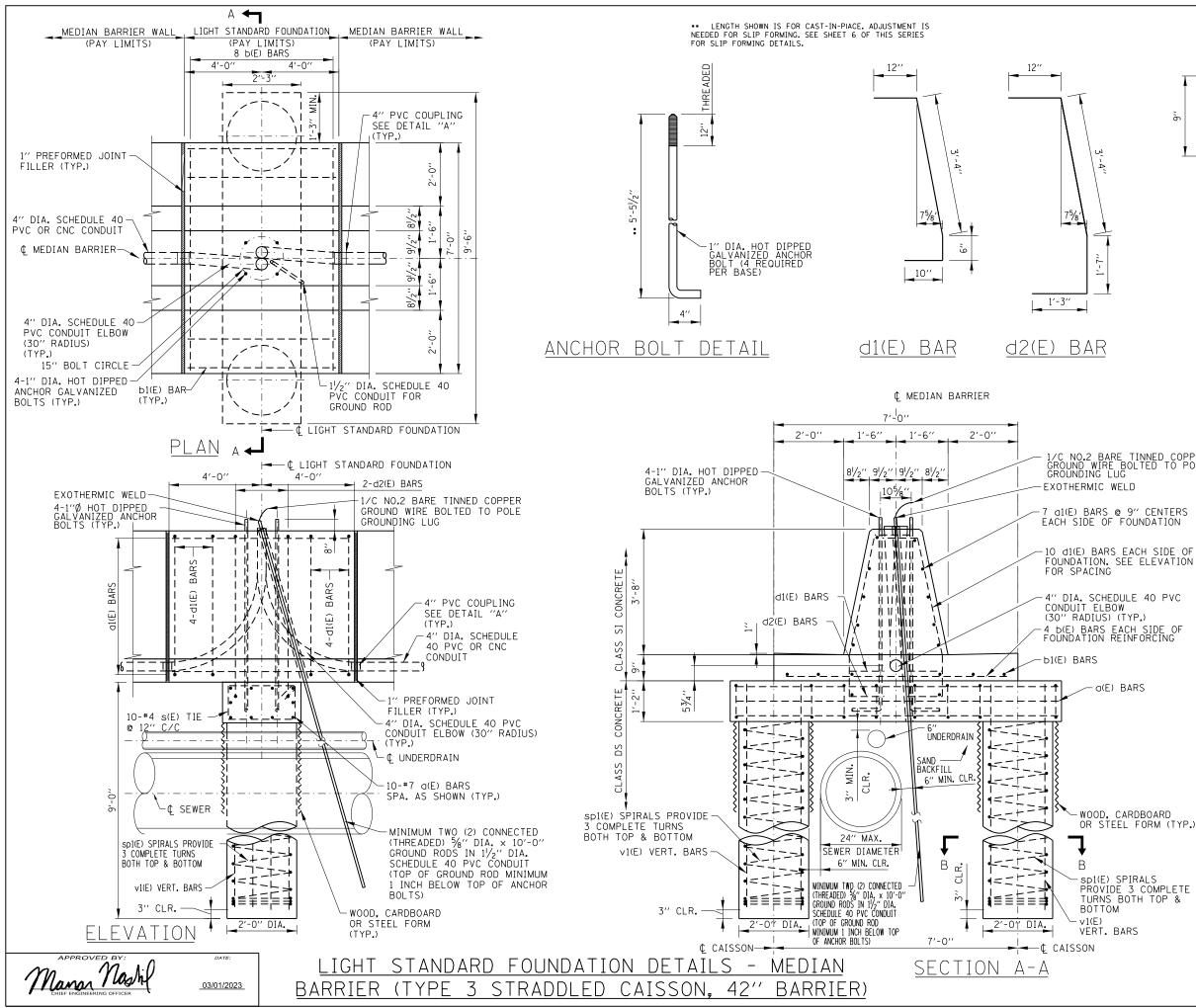
1. SEE SHEET 1 OF THIS SERIES FOR NOTES. 2. FOR SLIP FORM, SEE SHEET 6 OF THIS SERIES.

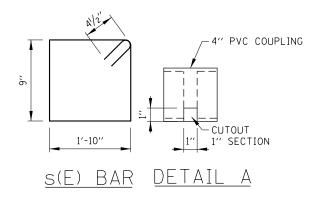
STANDARD H1-11

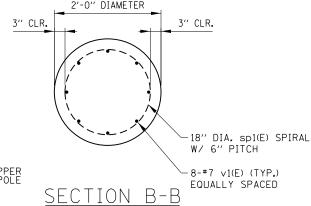


<u>Section</u>	<u>A – A</u>

REINFORCEMENT BARS SCHEDULE							
BAR	NO.	SIZE	LENGTH	WT. LB.	SHAPE		
a(E)	10	# 6	5'-6''	83			
a1(E)	10	#4	7'-6''	50			
Ь(E)	8	# 4	6'-6''	35			
b1(E)	8	# 4	7'-8''	78			
d1(E)	20	# 4	5'-8''	78	\smile		
s(E)	12	# 4	7'-7''	61			
s1(E)	4	# 4	8'-1''	22			
s2(E)	6	#4	5'-0''	20			
sp1(E)	1	# 4	*		X		
v(E)	8	* 6	3'-2''	38			
v1(E)	8	# 7	12'-6''	205			







1/C NO.2 BARE TINNED COPPER GROUND WIRE BOLTED TO POLE GROUNDING LUG

REINFORCEMENT BARS SCHEDULE						
BAR	NO.	SIZE	LENGTH	WT. LB.	SHAPE	
a(E)	10	#7	9'-0''	184		
a1(E)	14	#4	7′-6′′	70		
Ь(E)	8	#4	6'-6''	35		
Ь1(E)	4	#4	7'-8''	21		
d1(E)	16	#4	5'-8''	62	レ	
d2(E)	4	#4	7'-2''	20	Γ	
s(E)	10	#4	5'-11''	40		
sp1(E)	2	#4	*		X	
v1(E)	16	# 7	9'-9''	319		

* SEE ELEVATION

NOTES:

- SEE SHEET 1 OF THIS SERIES FOR NOTES. 1.
- 2. FOR SLIP FORM, SEE SHEET 6 OF THIS SERIES.

-sp1(E) SPIRALS PROVIDE 3 COMPLETE TURNS BOTH TOP &

SHEET 5 OF 10

Illinois | Tollway

LIGHT STANDARD FOUNDATION

STANDARD H1-11

LIGHT STANDARD FOUNDATION ___MEDIAN BARRIER WALL MEDIAN BARRIER WALL_ (PAY LIMITS) (PAY LIMITS) (PAY LIMITS) └━── ₵ LIGHT FOUNDATION 4'-0'' 4'-0'' 1/C NO.2 BARE TINNED COPPER GROUND WIRE BOLTED TO POLE 10 d1(E) BARS @ 10" SPACING * GROUNDING LUG SETTING PLATE W/ANCHOR COUPLING NUT RECESSED 1/2" BELOW TOP OF WALL EXOTHERMIC WELD −¢ median barrier #9 WIRE SUPPORT FOR ANCHORS/REBAR C **-** ¢ ANCHOR BOLT ₡ ANCHOR BOLT 8' 1" DIA. THREADED EXTENSION HOT DIPPED GALVANIZED 花脑道 ELIMINATE 1" PREFORMED JOINT FILLER SAW CUT 2" DEEP CONTROL JOINT (TYP.) TOP OF BARRIER BARS CLASS SI CONCRETE a1(E) 1′′ 甲 COUPLING NUT FOR 1" DIA ANCHOR BOLT (TIGHT TO P) 9 # Шİ -STANDARD NUT (TIGHT TO ₱) --*/*-/<---/1 ═╾╌╾┹╉ · _ _/_ · _ _ _ _ -4-1" DIA. HOT DIPPED GALVANIZED ANCHOR BOLTS (TYP.) CONCRETE - 4" DIA. SCHEDULE 40 PVC CONDUIT ELBOW (30" RADIUS) (TYP.) #5 (E) BAR, 2 PLACES #4 (E) BAR FOR-EACH SIDE TO SECURE TIE-DOWN 5 ᡚ ANCHOR BOLT CAGE DS 4" PVC COUPLING (TYP.) SS HORZ. REBAR -MEDIAN BARRIER LIGHT STANDARD 5 - 4-1" DIA. HOT DIPPED GALVANIZED ANCHOR BOLTS (TYP.) └─ 4" DIA. SCHEDULE 40 PVC OR CNC CONDUIT FOUNDATION (REBAR NOT SHOWN) MINIMUM TWO (2) CONNECTED (THREADED) $\%_{1}$ DIA. × 10'-0" GROUND RODS IN 1/2" DIA. SCHEDULE 40 PVC CONDUIT (TOP OF GROUND ROD MINIMUM 1 INCH BELOW TOP OF ANCHOR BOLTS) SECTION C-C ELEVATION * #6 d1(E) BAR REPLACES #4 d1(E) BAR ** #6 a1(E) BAR REPLACES #4 a1(E) BAR NOTES: LIGHT STANDARD FOUNDATION DETAILS - MEDIAN BARRIER (MODIFICATIONS FOR SLIPFORM POUR, 42" BARRIER) Mana Mashi 03/01/2023

40 11 A0 11 A0 11 A0 11 A0 15''x15''x1'' PLATE (A3G STEEL HOT DIPPED GALVANIZED) SETTING PLATE SHEET 6 OF 10 SHEET 6 OF 10 SHEET 6 OF 10 SHEET 6 OF 10 SHEET STANDARD FOUNDATION STANDARD H1-11

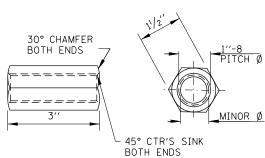
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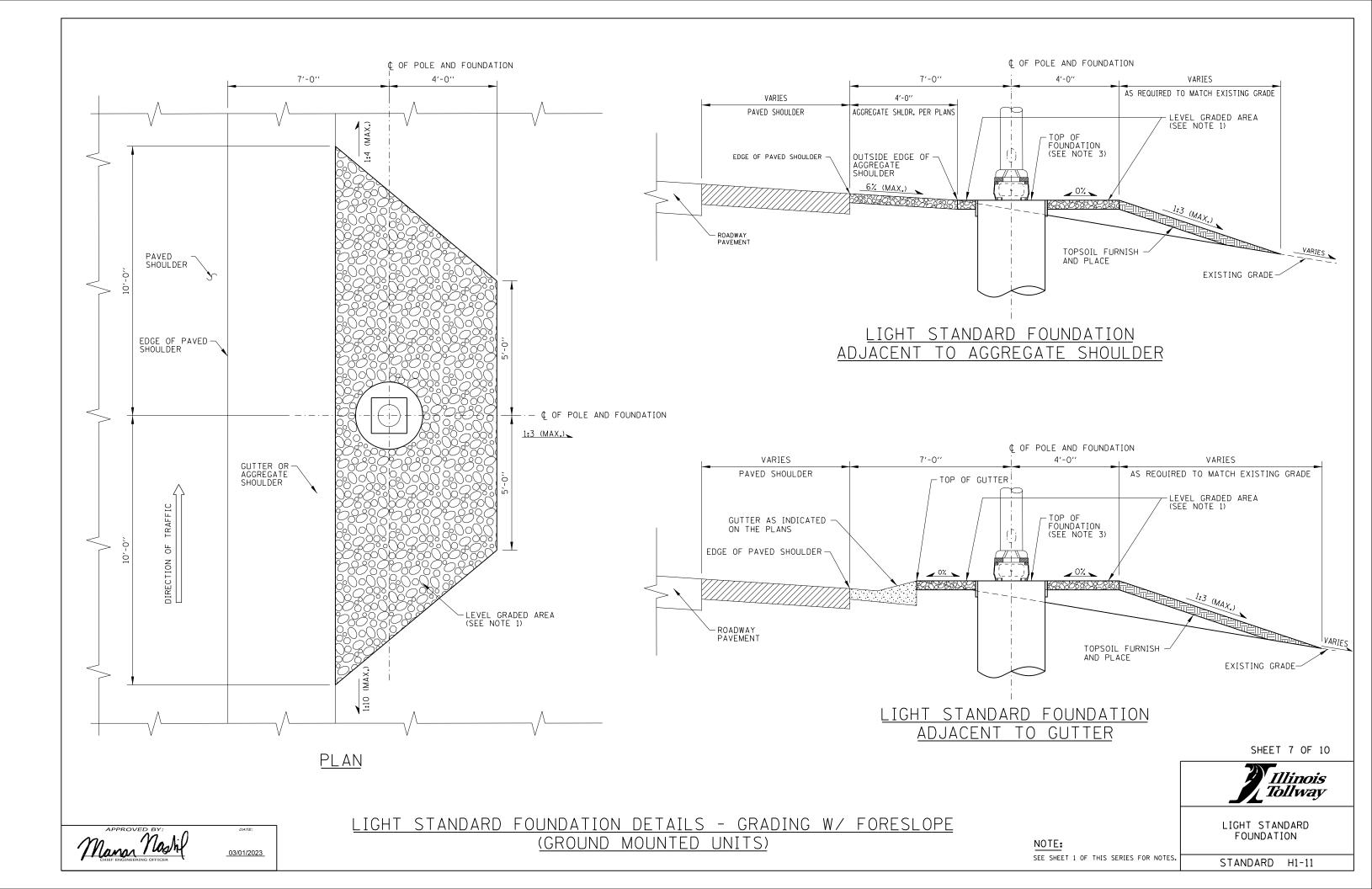
-(4) HOLES 1¹/8'' ON A 15'' BC

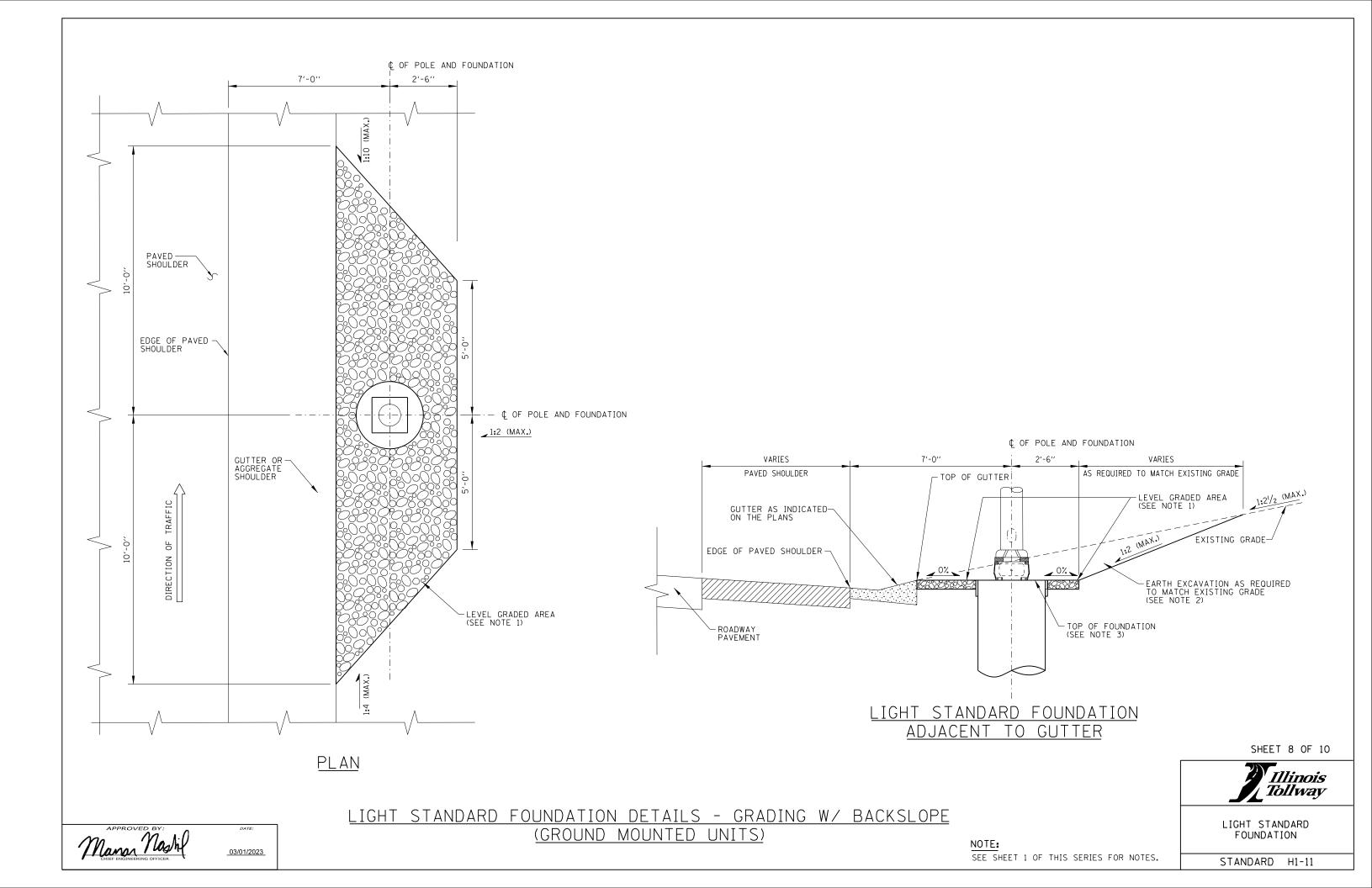
COUPLING NUT

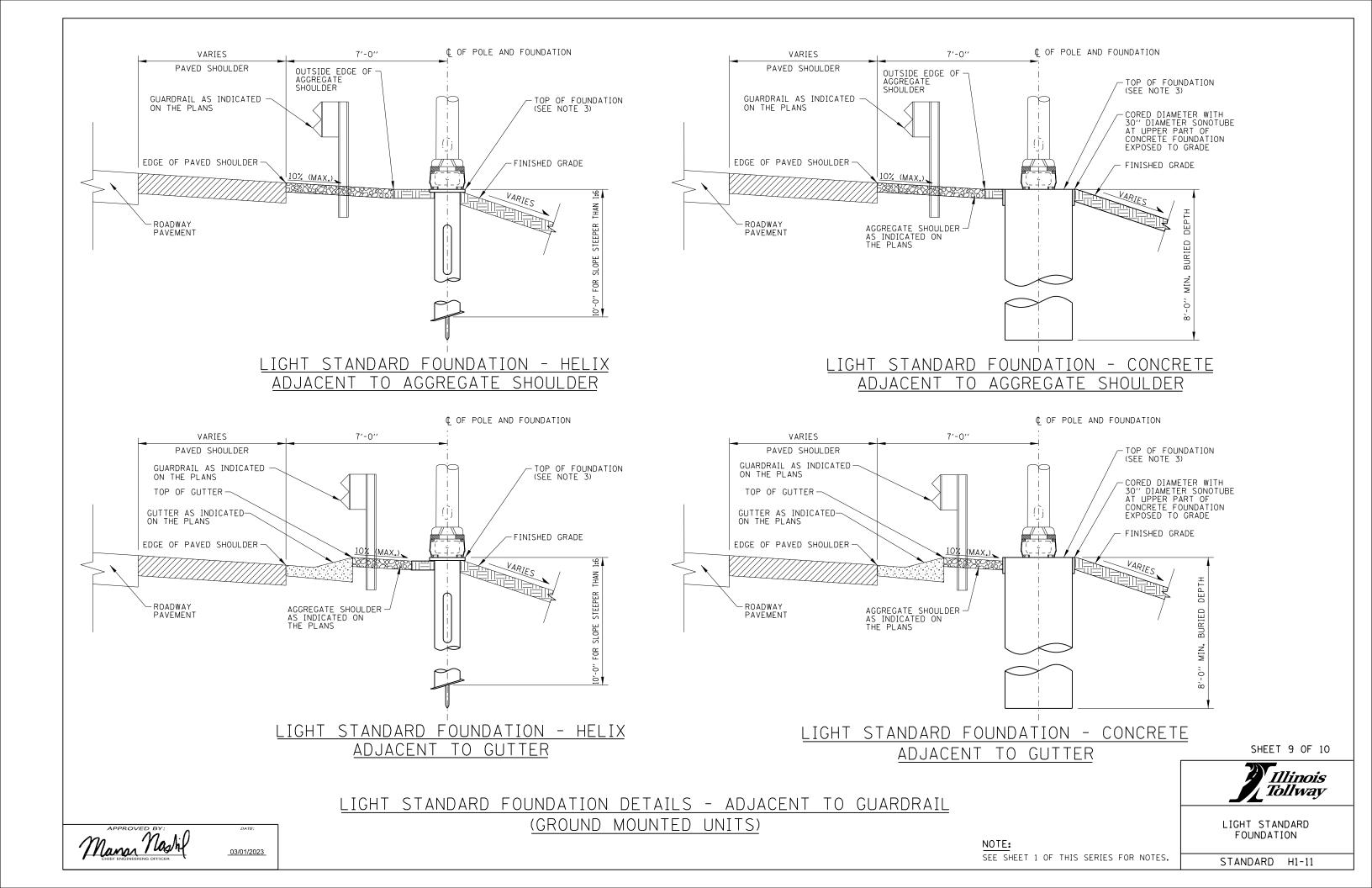
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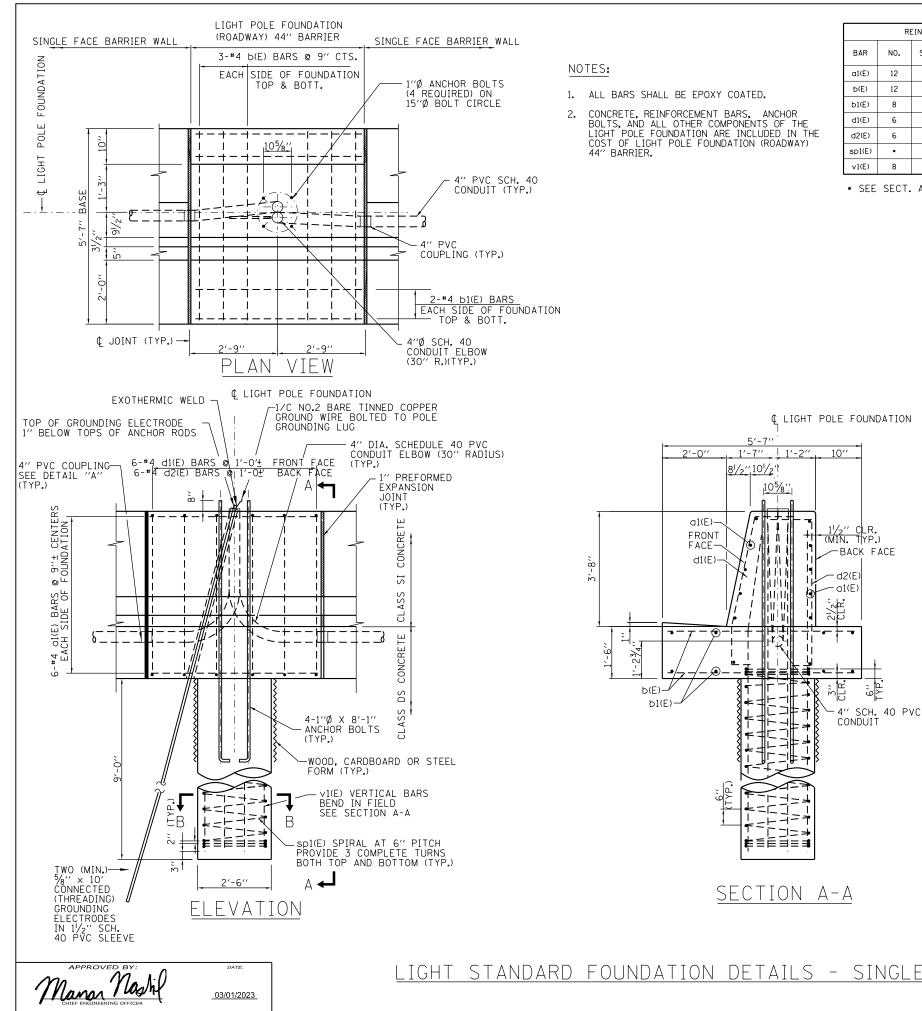
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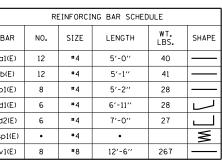




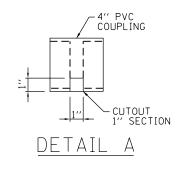


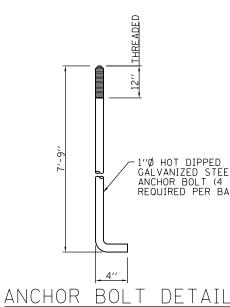




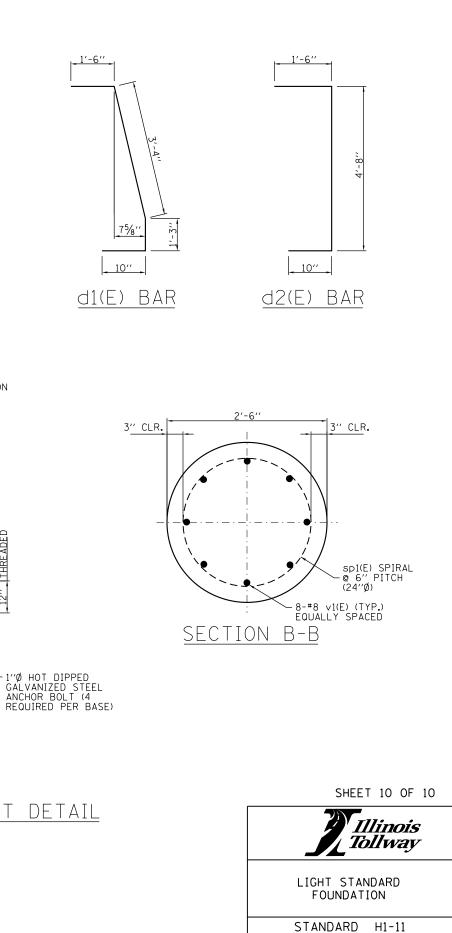


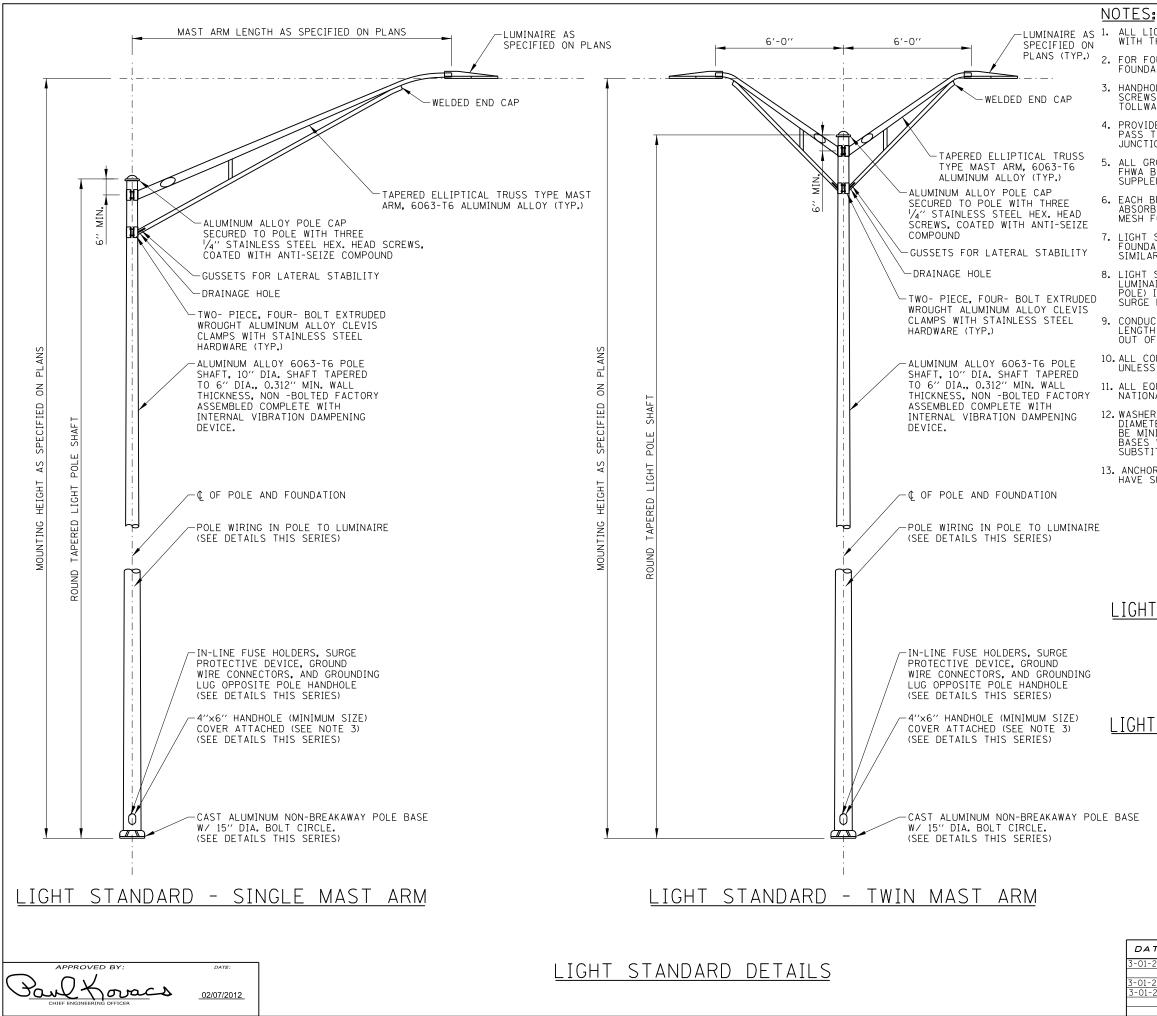
* SEE SECT. A-A





LIGHT STANDARD FOUNDATION DETAILS - SINGLE FACE BARRIER





LUMINAIRE AS 1. ALL LIGHT STANDARDS, BOTH NEW AND EXISTING, ARE SHOWN ON PLANS SPECIFIED ON WITH THE SAMPLE DESCRIPTIONS SHOWN ON THIS SHEET.

PLANS (TYP.) 2. FOR FOUNDATION DETAILS SEE STANDARD H1. FOR STRUCTURAL PARAPET FOUNDATION DETAILS, SEE STRUCTURAL PLANS.

3. HANDHOLE COVERS SHALL BE FASTENED USING TWO STAINLESS STEEL SCREWS WITH CAPTIVE STAINLESS STEEL NUTS OR INSERTS, PER ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATION SECTION 1069.

4. PROVIDE A 24" LONG POLYETHYLENE TUBE TO PROTECT CABLES WHERE THEY PASS THROUGH THE GROMMETTED OPENING AT THE POLE/MAST ARM JUNCTION.

5. ALL GROUND MOUNTED LIGHT POLES SHALL BE PROVIDED WITH AN ACCEPTED FHWA BREAKAWAY BASE OR DEVICE PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS SECTION 1070.

6. EACH BRIDGE MOUNTED LIGHT STANDARD SHALL BE PROVIDED WITH SHOCK ABSORBING VIBRATION PADS, NUTS, WASHERS, LEVELING PLATE AND WIRE MESH FOR ITS ERECTION ON THE FOUNDATION AS SHOWN ON THE PLANS.

7. LIGHT STANDARD WIRING DETAIL FOR INSTALLATION WITH CONCRETE FOUNDATION SHOWN. DETAIL FOR INSTALLATION WITH HELIX FOUNDATION IS SIMILAR.

8. LIGHT STANDARD WIRING DETAILS SHOWN FOR TWIN MAST ARM (2 LUMINAIRES PER POLE) INSTALLATIONS, SINGLE MAST ARM (1 LUMINAIRE PER POLE) INSTALLATIONS SHALL OMIT TWO (2) IN-LINE FUSE HOLDERS, ONE SURGE PROTECTION DEVICE AND ASSOCIATED WIRING.

9. CONDUCTORS EXTENDED INTO LIGHT POLE BASE SHALL BE OF SUFFICIENT LENGTH TO WITHDRAW SPLICES AND/OR INSULATED JOINTS A MINIMUM 18" OUT OF THE POLE HANDHOLE.

10. ALL CONDUCTORS ORIGINATING IN POLE SHALL BE A 1/C NO. 10 AWG UNLESS OTHERWISE NOTED.

11. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.

12. WASHERS BETWEEN HEX NUTS AND POLE BASES SHALL BE 2.5" OUTER DIAMETER. WASHERS ON PARAPET OR MEDIAN MOUNTED LIGHT POLES SHALL BE MINIMUM 1/4" THICK. BENT OR DEFORMED WASHERS OR DAMAGED POLE BASES WILL NOT BE ACCEPTED. MULTIPLE STACKED WASHERS SHALL NOT BE SUBSTITUTED FOR APPROPRIATELY SIZED WASHERS.

13. ANCHOR BOLTS SHALL EXTEND OVER THE TOP OF HEX NUTS AND SHALL HAVE SUFFICIENT THREAD EXPOSED FOR LOCK NUT TABS TO MAKE CONTACT. MOUNTING HEIGHT ______ CIRCUIT NUMBER ARM LENGTH - STATION OF

<u>S15-50-C4</u> STA. 0 + 20 SPACING RANGE

DISTRIBUTION TYPE

LIGHT STANDARD

STATION OF

LIGHT STANDARD

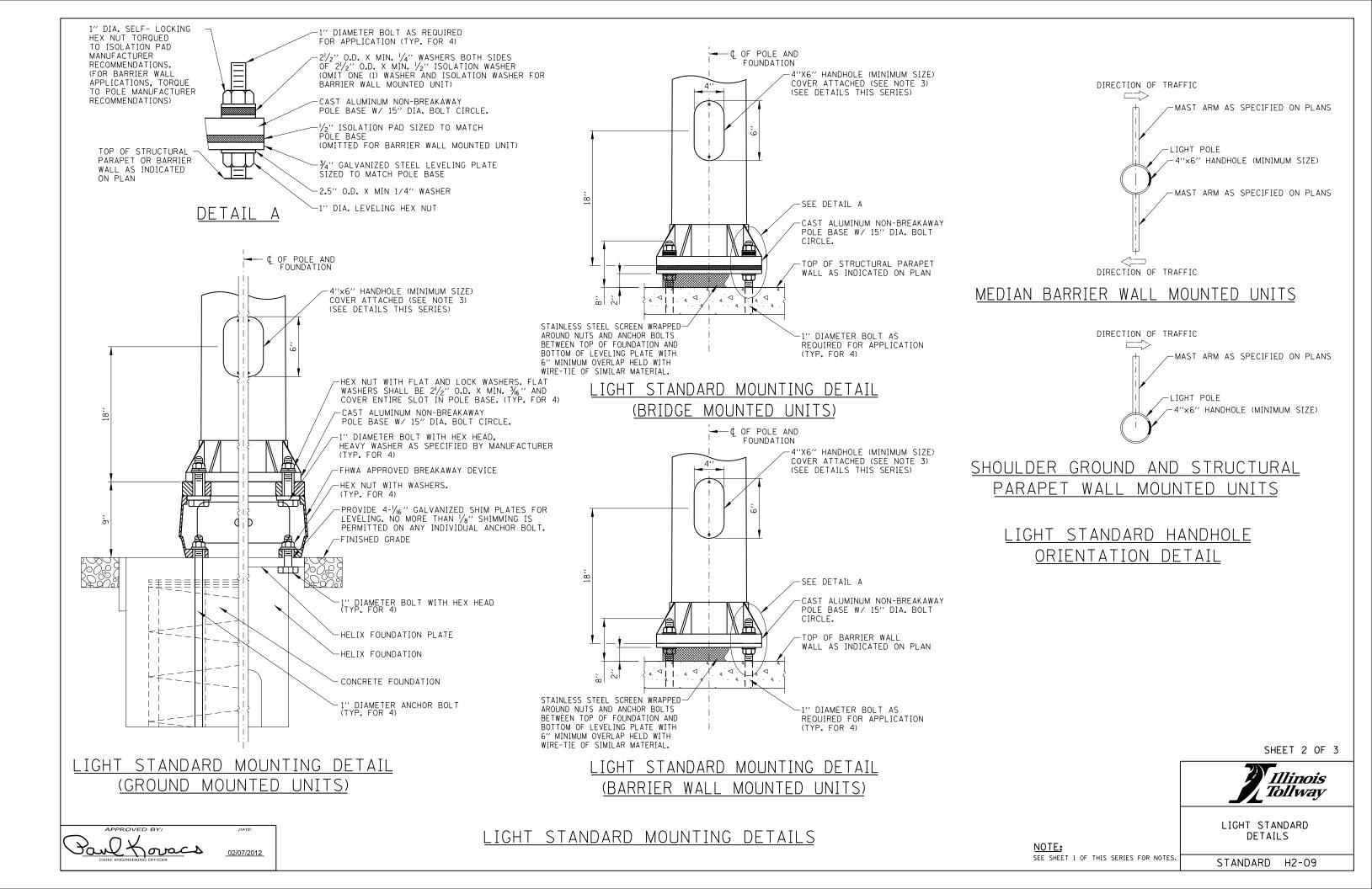
CONTROL: S=SEMI-CUTOFF C=FULL CUTOFF

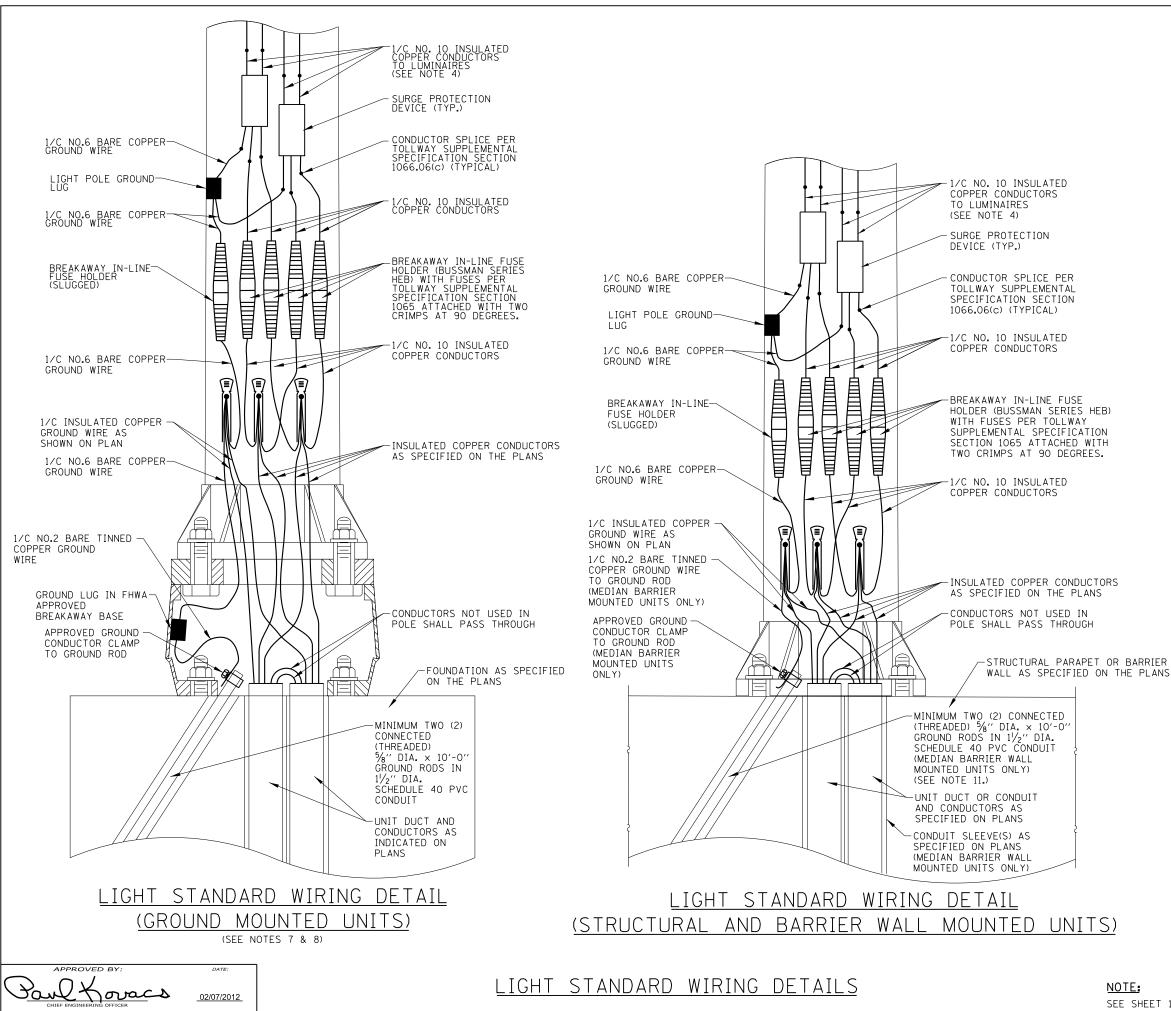
LIGHT STANDARD DESCRIPTION - HPS LUMINAIRES CIRCUIT NUMBER MOUNTING HEIGHT

ARM LENGTH $\frac{S15-50-C4}{TYPE A}$ STA. 0 + 20

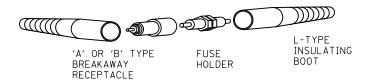
- DISTRIBUTION TYPE AS SPECIFIED ON THE PLANS .IGHT STANDARD DESCRIPTION - LED LUMINAIRES

-1[|]/4" × 2" SLOT `G \odot -15" DIA. BOLT CIRCLE CAST ALUMINUM POLE BASE X SHEET 1 OF 3 POLE BASE Illinois Tollway DATE REVISIONS NCREASED ANCHOR BOLT PROJECTION. LIGHT STANDARD LOCK WASHER SHOWN ON GND POLES DETAILS -01-2020 REMOVED BOLT COVERS. 3-01-2019 REVISED LIGHT POLE AND MAST ARM STANDARD H2-09

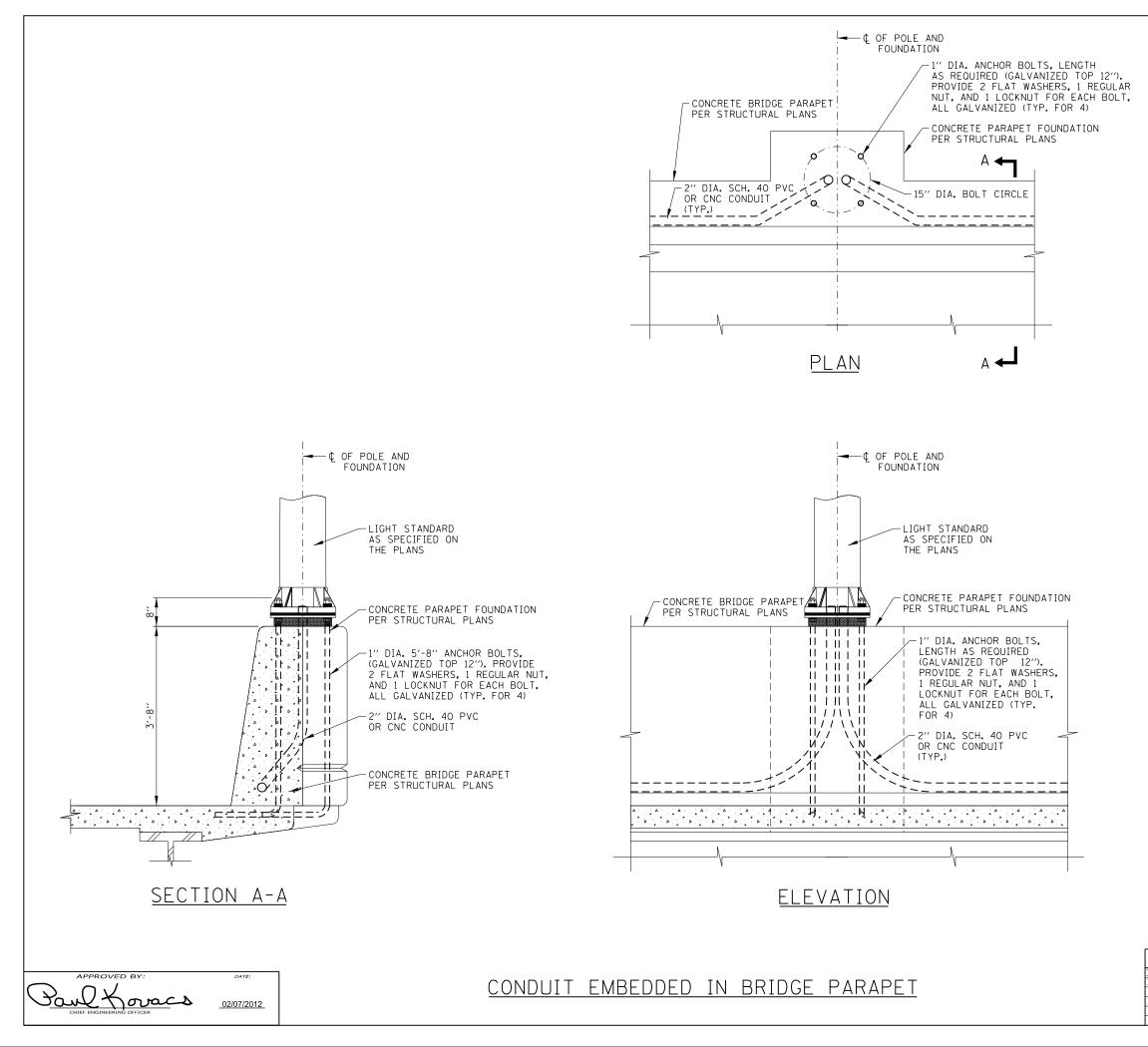




SHEET 3 OF 3 . Illinois [Tollway LIGHT STANDARD DETAILS NOTE: SEE SHEET 1 OF THIS SERIES FOR NOTES. STANDARD H2-09



IN-LINE FUSE HOLDER WITH BREAKAWAY FEATURE DETAIL



- 1. FOR STRUCTURAL PARAPET FOUNDATION DETAILS, SEE STRUCTURAL PLANS.
- 2. THE END 4'-O" SECTION OF WINGWALL/PARAPET SHALL BE KEPT FREE FROM ANY ATTACHMENTS TO AVOID CONFLICT FROM TRAFFIC BARRIER TERMINAL.
- 3. ALL CONDUIT, JUNCTION BOXES AND APPURTENANCES MOUNTED TO STRUCTURE SHALL BE OFFSET FROM THE FACE OF THE STRUCTURE A MINIMUM OF ONE (1) INCH BY MEANS OF A STAINLESS STEEL C-CHANNEL. C-CHANNEL SHALL BE SECURED TO BRIDGE PARAPET WITH 1/2" DIA. EXPANSION ANCHORS (MIN. 2" LONG). EXPANSION ANCHORS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION AND SHALL BE MADE BY PARABOLT, KWIK-BOLT OR WEJ-IT. CONDUIT SHALL BE SECURED WITH APPROVED CLAMPS A MINIMUM OF 5 FEET FROM CENTER AND A MINIMUM OF 2 FEET FROM ANY CHANGE IN DIRECTION OR JUNCTION BOX.
- 4. THE BARREL IN THE EXPANSION JOINT FITTING SHALL BE FULLY EMBEDDED IN THE CONCRETE ON ONE SIDE OF THE EXPANSION JOINT. ONE HALF THE LENGTH OF THE DEFLECTION FITTING SHALL BE EMBEDDED IN THE CONCRETE ON THE OTHER SIDE OF THE EXPANSION JOINT.
- 5. EXPANSION/DEFLECTION JOINTS SHALL BE PROVIDED AT ALL BRIDGE EXPANSION JOINTS.
- 6. ALL CLAMPS AND HARDWARE FOR CONDUIT MOUNTING SHALL BE OF LIKE MATERIAL AS THE CONDUIT.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.

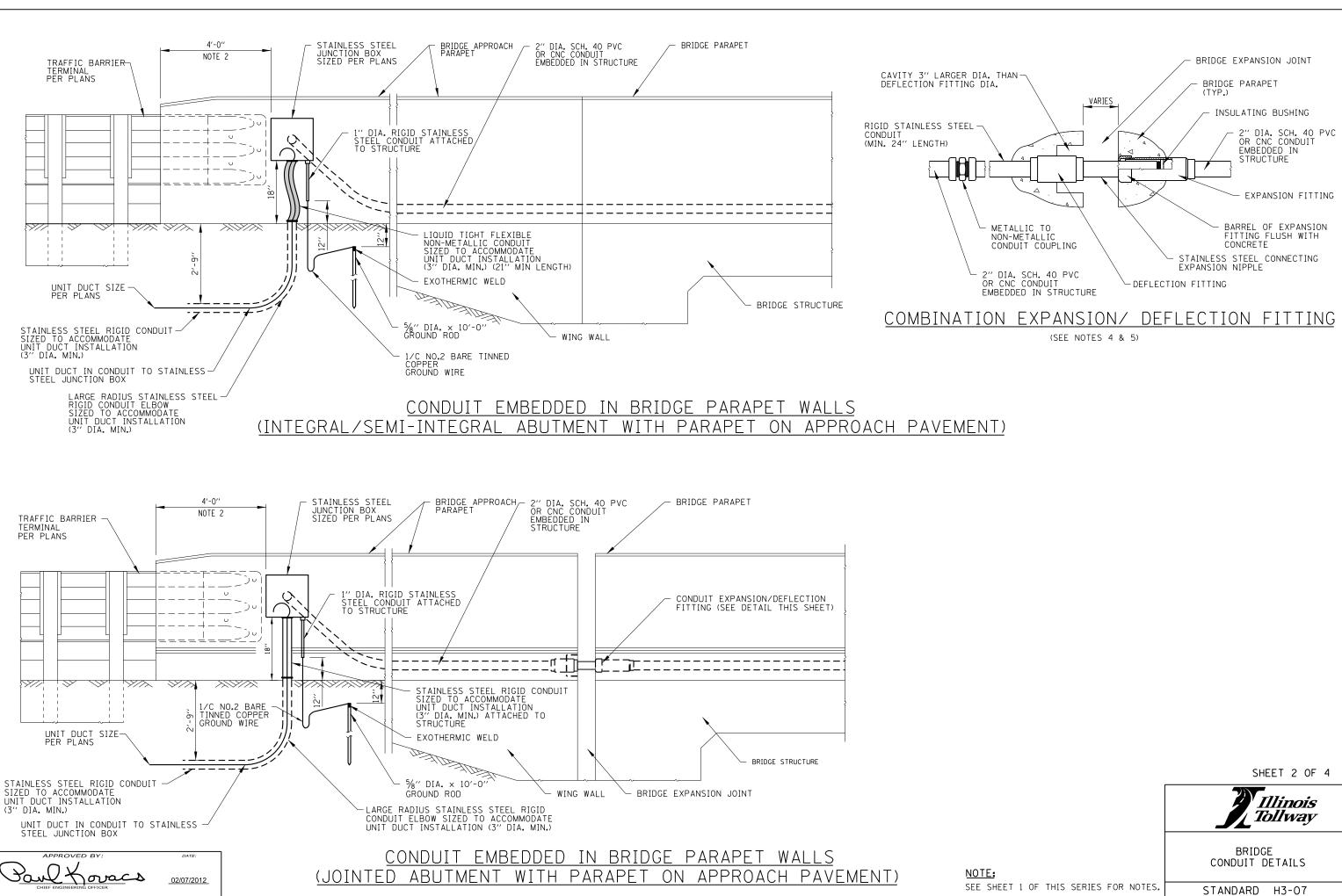
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SHEET	1	UF	4

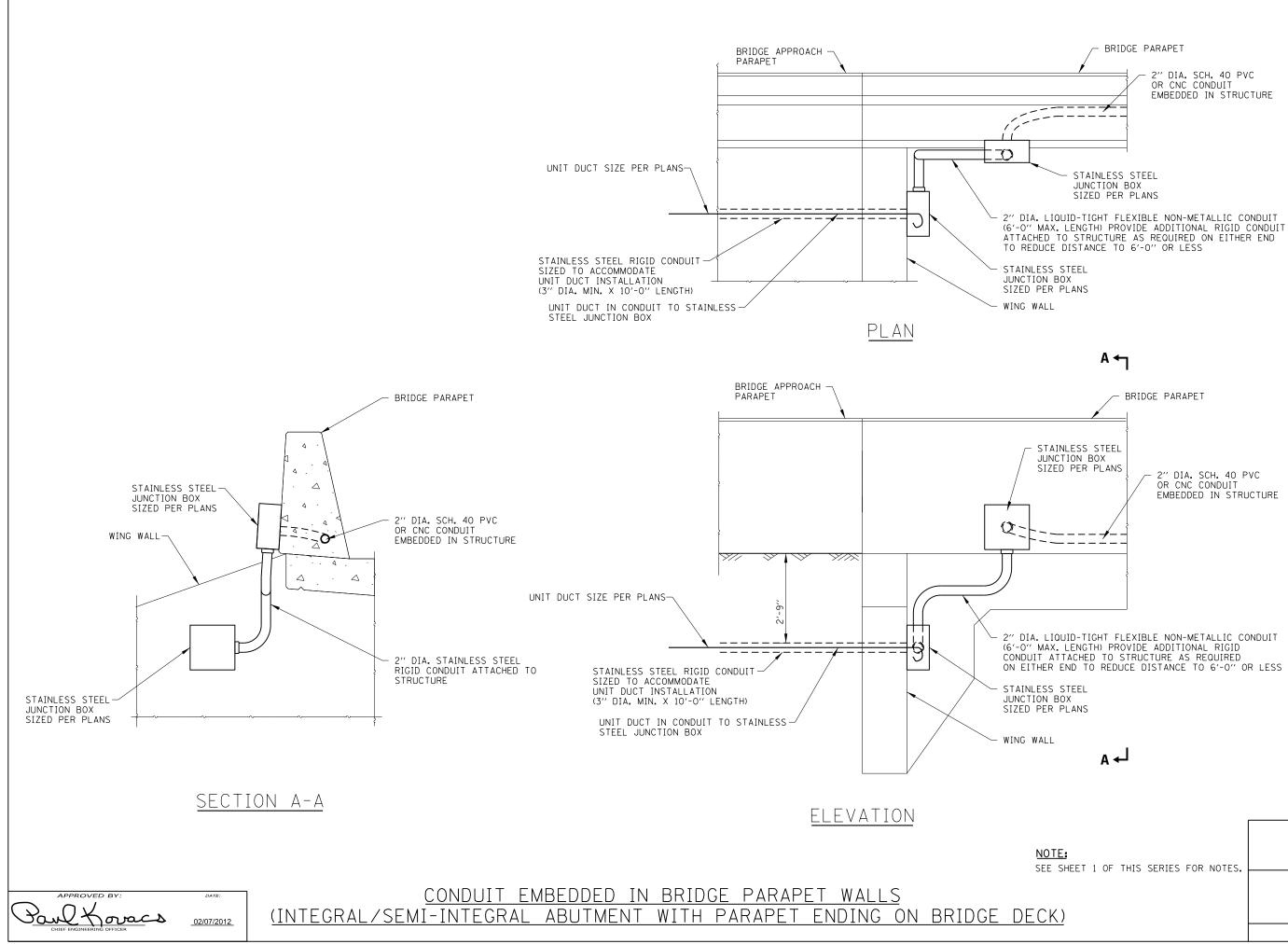
Illinois Tollway

BRIDGE CONDUIT DETAILS

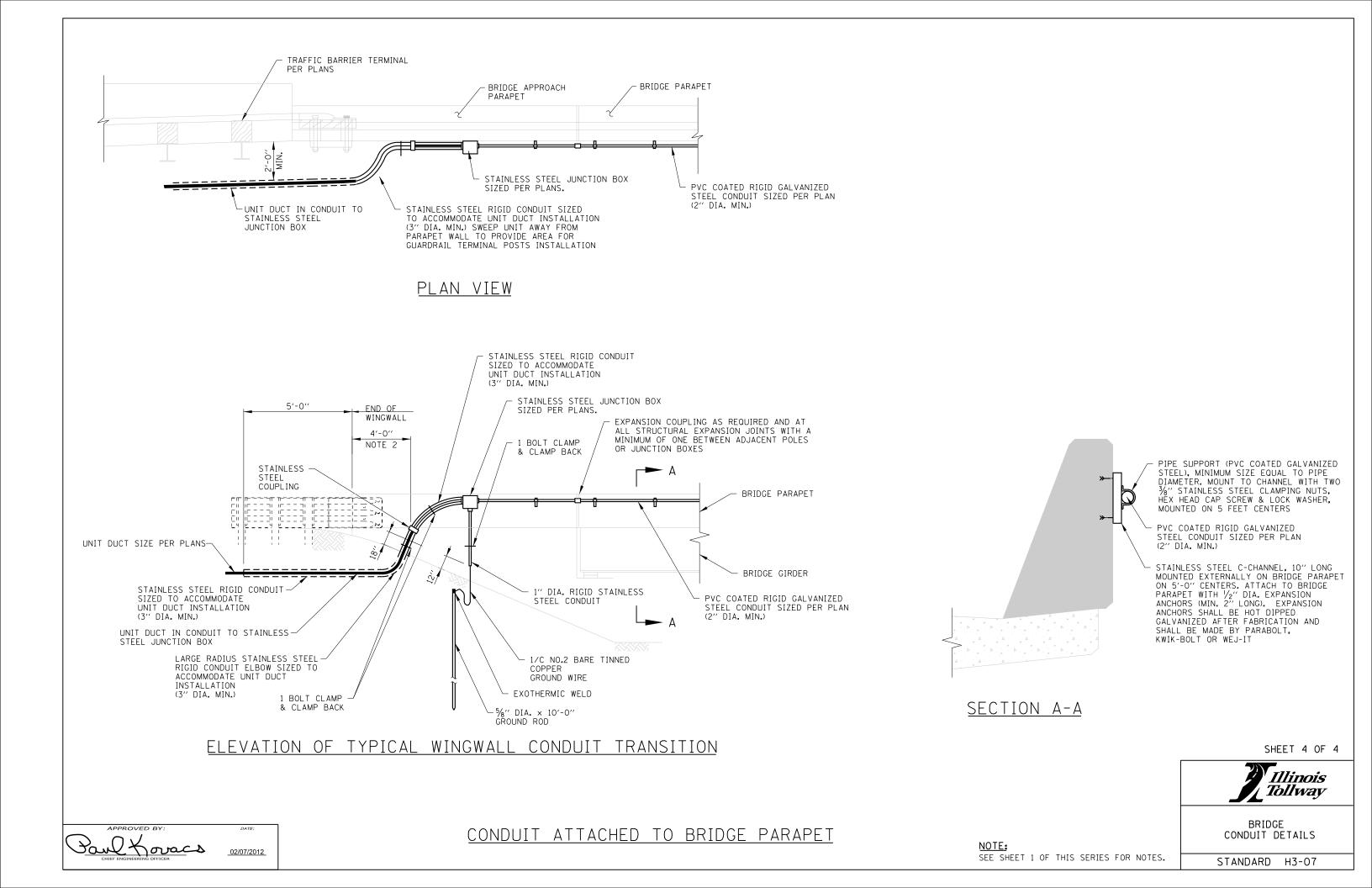
DATE	REVISIONS
	INCREASED ANCHOR BOLT PROJECTION.
3-01-2019	REVISED TO SHOW SINGLE SLOPE
	BARRIER.
3-01-2018	TYPOGRAPHICAL CORRECTIONS.
3-31-2017	REVISED NOTES. REVISED APPROACH
	PARAPET CLEAR AREA DIM.

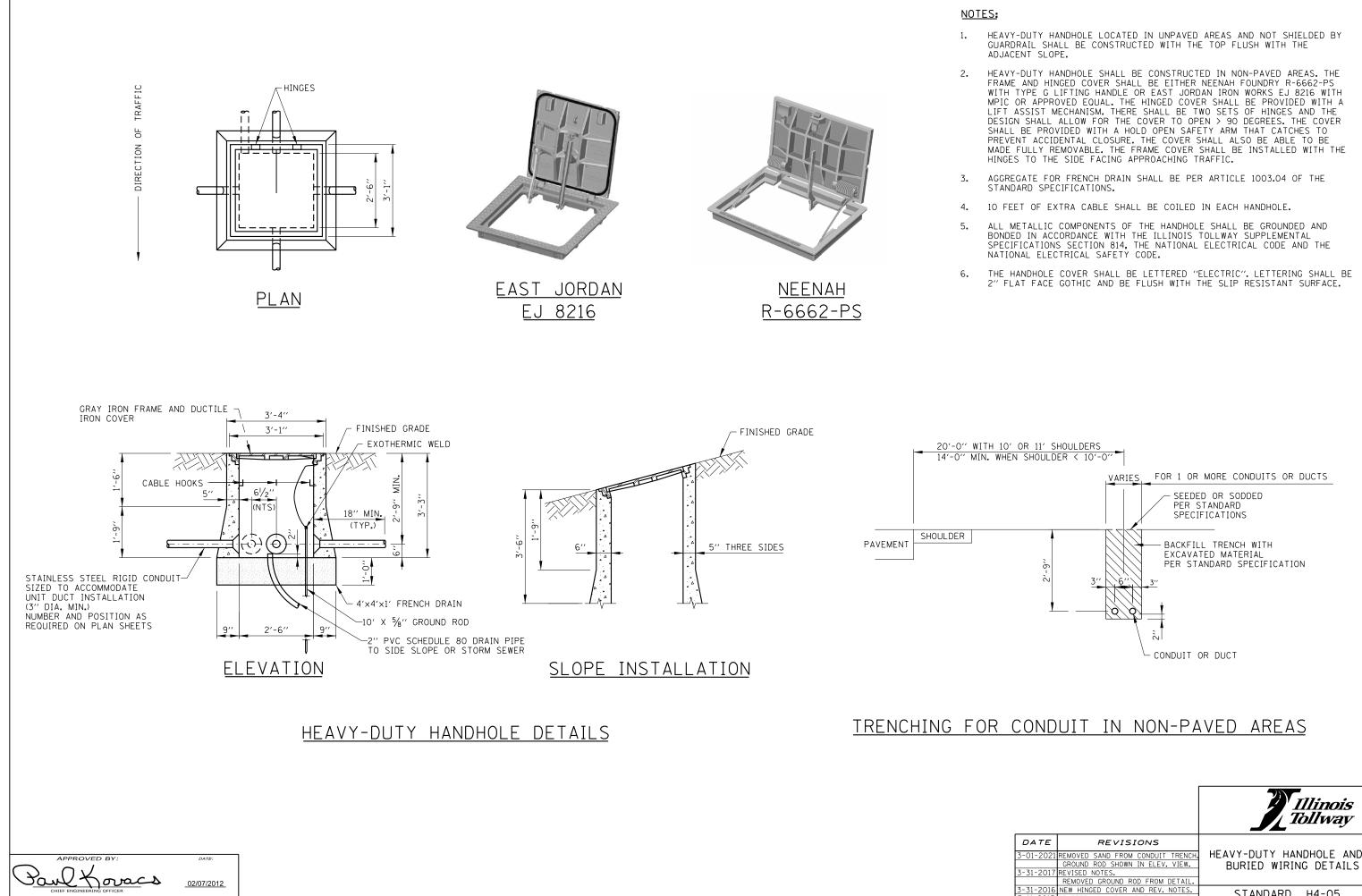
STANDARD H3-07



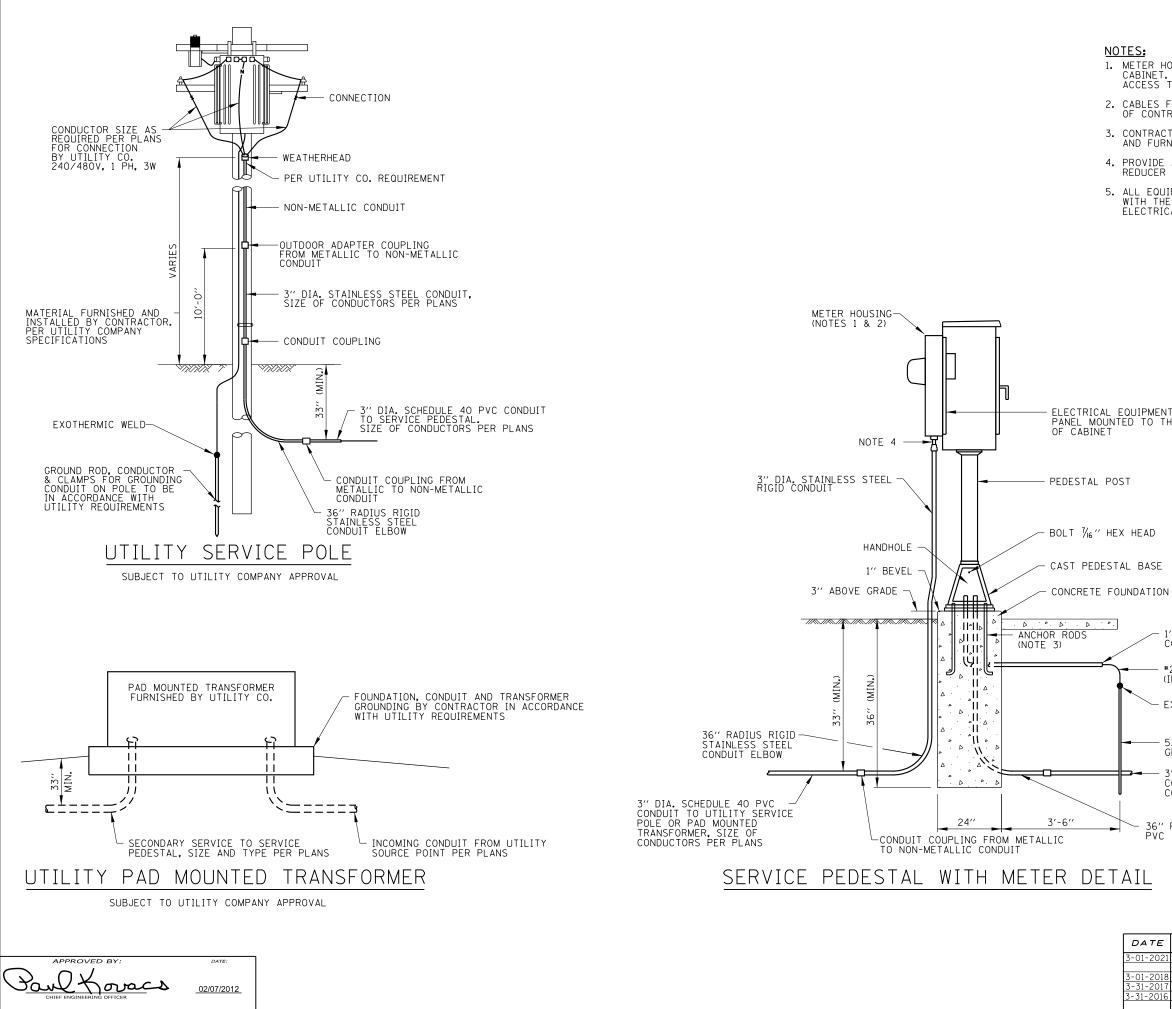


SHEET 3 OF 4 *Ill<u>i</u>nois* Tollway BRIDGE CONDUIT DETAILS STANDARD H3-07





	Illinois Tollway
DATE REVISIONS	
3-01-2021 REMOVED SAND FROM CONDUIT TRENCH.	HEAVY-DUTY HANDHOLE AND
GROUND ROD SHOWN IN ELEV. VIEW.	BURIED WIRING DETAILS
3-31-2017 REVISED NOTES.	
REMOVED GROUND ROD FROM DETAIL.	
3-31-2016 NEW HINGED COVER AND REV. NOTES.	STANDARD H4-05
3-11-2015 DELETED NON HEAVY-DUTY HANDHOLE.	



1. METER HOUSING SHALL BE MOUNTED TO BACK WALL OF CONTROL CABINET. PROVIDE A CATE IN R.O.W. FENCE TO ALLOW UTILITY ACCESS TO READ THE METER.

2. CABLES FROM METER HOUSING SHALL PASS THROUGH BACK WALL OF CONTROL CABINET.

3. CONTRACTOR MUST COORDINATE WITH PEDESTAL BASE SUPPLIER AND FURNISH THE NECESSARY ANCHOR RODS.

4. PROVIDE A $2^{1}\!\!/_{2}{}^{\prime\prime}$ Conduit Hub, $2^{1}\!\!/_{2}{}^{\prime\prime}$ Nipple and $2^{1}\!\!/_{2}{}^{\prime\prime}$ to 3" conduit reducer fitting.

5. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.

ELECTRICAL EQUIPMENT MOUNTING PANEL MOUNTED TO THE BACK

1" SCHEDULE 40 PVC CONDUIT FOR GROUND WIRE

#2 GROUND WIRE (INSULATED)

EXOTHERMIC WELD

- 5/8" DIA. X 10'-0" GROUND ROD

3" DIA. SCHEDULE 40 PVC CONDUIT TO LIGHTING CONTROL CONSOLE

36" RADIUS SCHEDULE 40 PVC CONDUIT ELBOW

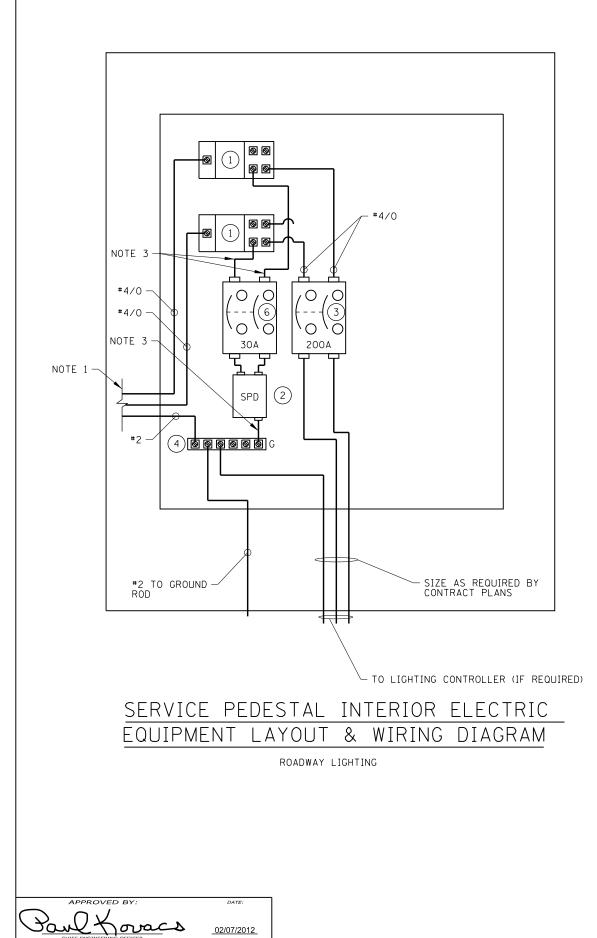
SHEET 1 OF 3

Illinois ' Tollway

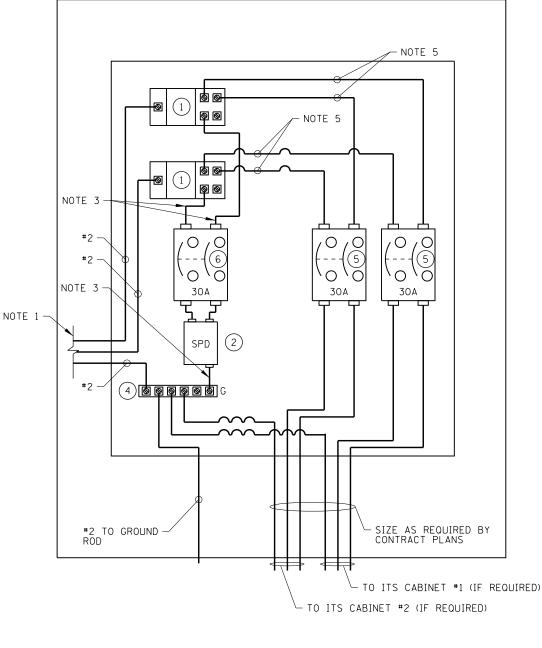
SERVICE POLE AND PEDESTAL DETAILS

DATE REVISIONS 3-01-2021 ADDED COMBINED LIGHTING/ITS PEDESTAL. -01-201 -31-201 TYPOGRAPHICAL CORRECTIONS ADDED EQUIPMENT LAYOUTS. REVISED CONDUIT DEPTH.

STANDARD H5-06



02/07/2012



SERVICE PEDESTAL INTERIOR ELECTRIC EQUIPMENT LAYOUT & WIRING DIAGRAM

ROADWAY ITS

ITEM DESCRIPTION

- (1)POWER DISTRIBUTION/TERMINAL BLOCK, WITH INGRESS PROTECTION RATING IP20.
- (2)SURGE PROTECTION DEVICE
- (3)CIRCUIT BREAKER, 200 AMPERE, 2-POLE, 600 VOLT RATED
- (4)GROUNDING AND/OR NEUTRAL BUS
- (5) CIRCUIT BREAKER, 30 AMPERE (OR AS REQUIRED BY CONTRACT PLANS), 2-POLE, 600 VOLT RATED
- (6)CIRCUIT BREAKER, 30 AMPERE, 2-POLE, 600 VOLT RATED

NOTES:

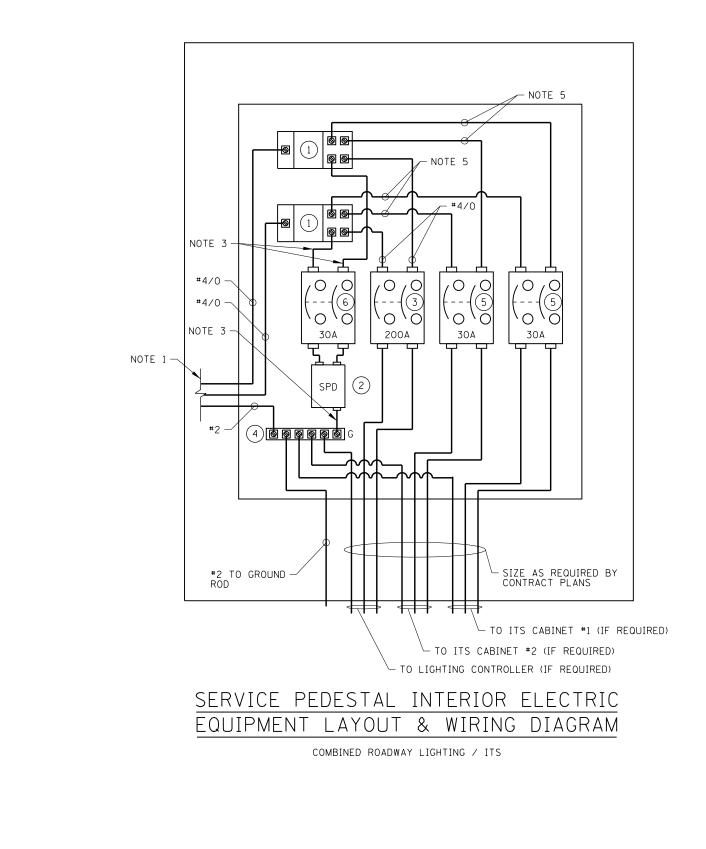
- 1. ELECTRIC SERVICE CONDUCTORS FROM METER HOUSING.
- 2. ELECTRIC SERVICE CONDUCTORS TO LIGHTING CONTROL CONSOLE. SIZE AS INDICATED ON THE PLANS.
- 3. SURGE PROTECTION DEVICE CONDUCTORS SIZE SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATION.
- 4. ELECTRIC CONDUCTORS SHOWN WITH MINIMUM SIZES. LARGER SIZES SHALL BE USED AS REQUIRED OR AS SHOWN ON THE PLANS.
- 5. CABLES SHALL BE MINIMUM #4 AWG OR AS REQUIRED FOR CIRCUIT BREAKER.

SHEET 2	2 OF 3
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Illinois Tollway

SERVICE POLE AND PEDESTAL DETAILS

STANDARD H5-06

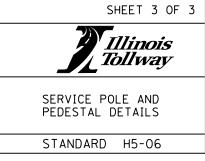


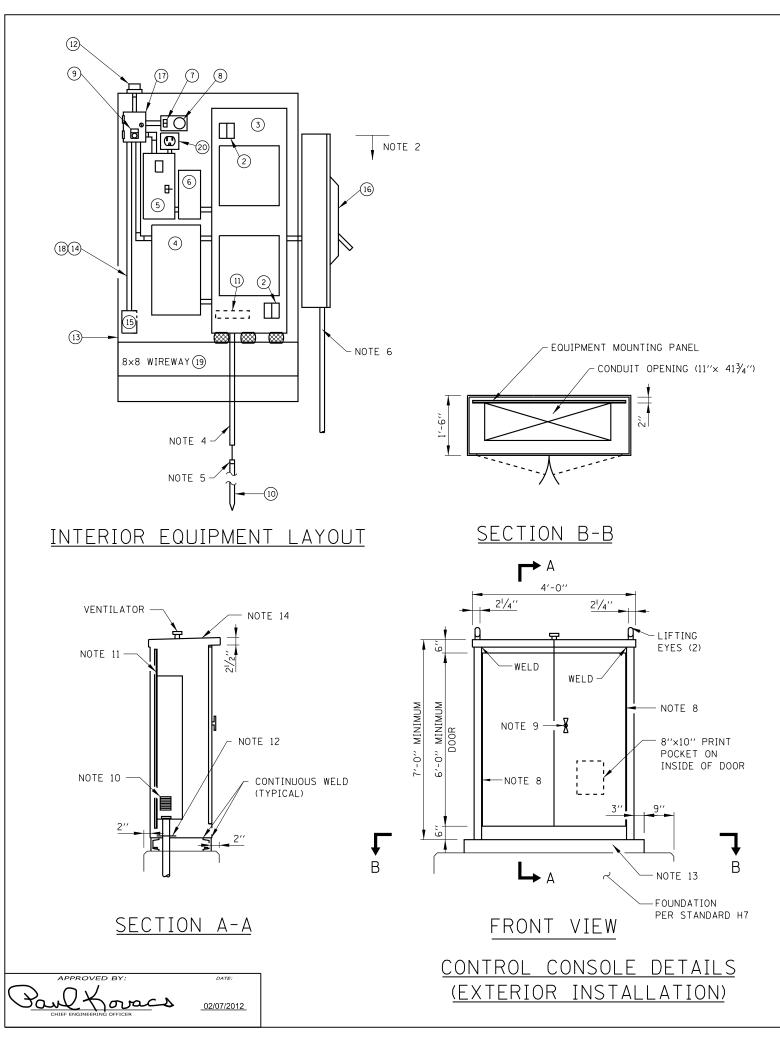
ITEM DESCRIPTION

- 1 POWER DISTRIBUTION/TERMINAL BLOCK, WITH INGRESS PROTECTION RATING IP20.
- (2) SURGE PROTECTION DEVICE
- (3) CIRCUIT BREAKER, 200 AMPERE, 2-POLE, 600 VOLT RATED
- (4) GROUNDING AND/OR NEUTRAL BUS
- (5) CIRCUIT BREAKER, 30 AMPERE (OR AS REQUIRED BY CONTRACT PLANS), 2-POLE, 600 VOLT RATED
- (6) CIRCUIT BREAKER, 30 AMPERE, 2-POLE, 600 VOLT RATED

NOTES:

- 1. ELECTRIC SERVICE CONDUCTORS FROM METER HOUSING.
- 2. ELECTRIC SERVICE CONDUCTORS TO LIGHTING CONTROL CONSOLE. SIZE AS INDICATED ON THE PLANS.
- 3. SURGE PROTECTION DEVICE CONDUCTORS SIZE SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATION.
- 4. ELECTRIC CONDUCTORS SHOWN WITH MINIMUM SIZES. LARGER SIZES SHALL BE USED AS REQUIRED OR AS SHOWN ON THE PLANS.
- 5. CABLES SHALL BE MINIMUM #4 AWG OR AS REQUIRED FOR CIRCUIT BREAKER.





- 1. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 2. 5'-O" MAXIMUM HEIGHT ABOVE GRADE.
- 3. NOT USED.
- 4. 3/1" PVC CONDUIT IN CONCRETE, SEE FOUNDATION DETAILS (STANDARD H7).
- 5. EXOTHERMIC WELD NO. 2 BARE TINNED COPPER GROUND CABLE TO GROUND ROD.
- 6. TO SERVICE PEDESTAL AS INDICATED ON PLANS.
- 7. NOT USED.
- 8. CONTINUOUS STAINLESS STEEL PIANO HINGES.
- 9. 3-POINT LATCH VAULT TYPE HANDLE WITH MASTER KEYED CHICAGO CYLINDER LOCK CATALOG NO. 60 10. SCREENED LOUVERS ON SIDES OF CABINET.
- 11. 10 GAUGE GALVANIZED STEEL EQUIPMENT MOUNTING PANEL (PAINTED WHITE).
- 12. REMOVABLE #10 GAUGE 13"×43³/₄" STAINLESS STEEL PLATE. DRILL PLATE AS REQUIRED FOR CONDUIT ENTRY.
- 13.4" x 21/2" STAINLESS STEEL CHANNEL (2 REQUIRED-FRONT AND BACK). EXTEND CHANNEL 3" BEYOND ENCLOSURE (CONTINUOUSLY WELD CHANNEL TO ENCLOSURE).
- 14. TOP SLOPED 1/2" TO REAR FOR DRAINAGE
- 15. FOR WIRING DIAGRAM SEE SHEET 2 OF THIS SERIES.
- 16. ALL EQUIPMENT WITHIN LIGHTING CONTROLLER SHALL BE SEPARATED A MINIMUM OF THREE (3) INCHES FROM EACH OTHER.

ITEM DESCRIPTION:

- (1)NOT USED.
- (2) SECONDARY SURGE ARRESTERS, 2 POLE, 650 VOLT.
- 3 MAIN PANELBOARD IN A NEMA 1 ENCLOSURE, 480/240 VOLT, 1 PHASE, 3 WIRE, 2 SECTION, 200 AMP, 2 POLE MAIN CIRCUIT BREAKER 65,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY WITH CIRCUIT BREAKERS PER SCHEDULE ON PLANS. DOOR HINGES ON RIGHT SIDE
- (4)
- (5) NEMA 1 SURFACE MOUNTED ENCLOSURE.
- 6 ENCLOSURE.
- (7)SINGLE POLE, 15 AMPERE SWITCH, IN A NEMA 1 ENCLOSURE (WITH ITEM 8), RATED AT 120-277 VAC.
- 8 LAMP HOLDER 660W, 600V, MOUNTED ON A NEMA 1 ENCLOSURE (WITH ITEM 7), W/LED LAMP.
- 9 HAND-OFF-AUTO SELECTOR SWITCH WITH LEGEND PLATE. MOUNTED IN THE COVER OF ITEM 17.
- (10) $5_{8}^{\prime\prime\prime}$ DIA. imes 10'-O" LONG GROUND ROD DRIVEN EXTERNAL TO THE FOUNDATION WITHIN GROUND WELL.
- (11)GROUND BUS MOUNTED IN PANELBOARD ENCLOSURE.
- (12) PHOTO ELECTRIC CONTROL SWITCH, WITH RECEPTACLE.
- (13) THE CABINET DOOR
- (14) INTERNAL CONTROL WIRING SHALL BE #12 AWG, STRANDED, XLP INSULATED NEC TYPE RHH/RHW-2 RATED 600 VOLT, WITH SUITABLE COLOR CODING TO BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.
- (15) 200 WATT, 120 VOLT CABINET HEATER WITH INTEGRAL THERMOSTAT.
- (16) SERVICE SAFETY SWITCH, 200 AMP, 600 VOLT, NON-FUSED, NEMA 4X STAINLESS STEEL ENCLOSURE.
- NEMA TYPE 1, $8^{\prime\prime}\times 6^{\prime\prime}\times 4^{\prime\prime}$ junction box & Cover without knockouts item 9 is mounted in the cover. (17)
- (18) INTERNAL CONDUIT AND FITTINGS SHALL BE $\frac{3}{4}$ " MINIMUM.
- (19) 8"x8" WIREWAY WITH 3-3" NIPPLES.
- (20) GCFI OUTLET.

17. MAIN PANELBOARD (ITEM 3) SHALL BE POSITIONED SUCH THAT BOTH DOORS (DOOR-IN-DOOR) OF THE PANELBOARD MAY BE FULLY OPENED WITHIN EXTERIOR ENCLOSURE (ITEM 13) WITHOUT REMOVAL

LIGHTING CONTRACTOR, ELECTRICALLY HELD, 480 VOLT, 200 AMP, 2 POLE, 120 VOLT CONTROL, WITH 250 VOLT, 15 AMP CONTROL LINE FUSE, IN A NEMA 1 ENCLOSURE. SECONDARY BREAKER, 15 AMPERE TRIP, 120 VOLT, SINGLE POLE, 65,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY IN A STEP DOWN TRANSFORMER, 1500 VA, 480 VOLT PRIMARY, 120 VOLT SECONDARY, SINGLE PHASE, 60 HERTZ, DRY TYPE, NEMA 3R

NEMA TYPE 3R STAINLESS STEEL ENCLOSURE WITH DRIP SHIELD AND STAINLESS STEEL HARDWARE. ENCLOSURE SHALL CONFORM TO J.I.C. STANDARDS WITH CELLULAR NEOPRENE GASKETED DOORS, ALL SEAMS CONTINUOUSLY WELDED, 10 GAUGE STAINLESS STEEL BODY, REMOVABLE STEEL (PAINTED WHITE) PANEL INSIDE THE BACK AND A FACTORY INSTALLED DRIP SHIELD. THE ENCLOSURE SHALL HAVE CONTINUOUS HINGED DOORS MEETING IN THE CENTER, OVERLAPPED AND GASKETED, WITH NO CENTER POS T. AN OIL TIGHT KEY LOCKING HANDLE WITH 3 POINT LATCH SHALL BE PROVIDED (FURNISH 6 KEYS). EACH END OF THE ENCLOSURE SHALL HAVE A SCREENED, GASKETED VENTILATING LOUVER AND THE TOP OF THE ENCLOSURE SHALL HAVE A VENTILATOR. INTERNAL CONDUIT SHALL HAVE LOCKNUTS, INSULATING BUSHING AND CONDULET FITTINGS AS REQUIRED. INTERNAL WIRING SHALL BE XLP INSULATED NEC TYPE RHH/RHW-2. PROVIDE A WIRING DIAGRAM IN A PRINT POCKET ON THE INSIDE OF THE CARINET DOOR

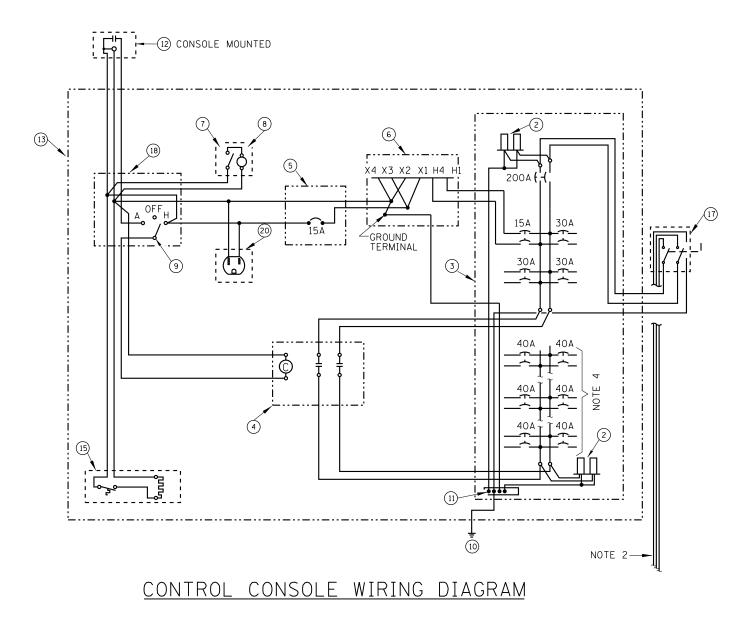
SHEET 1 OF 2

Illinois Tollway

DATE	REVISIONS	
3-01-2018	REMOVED CONTRACTOR RELAY, ADDED	
	GCFI OUTLET.	
3-31-2017	REMOVED METER HOUSING.	
3-31-2016	REVISED NOTE 2.	
3-11-2015	REVISED CONDUITS TO STAINLESS	
	STEEL.	

EXTERIOR CONTROL CONSOLE DETAILS

STANDARD H6-06



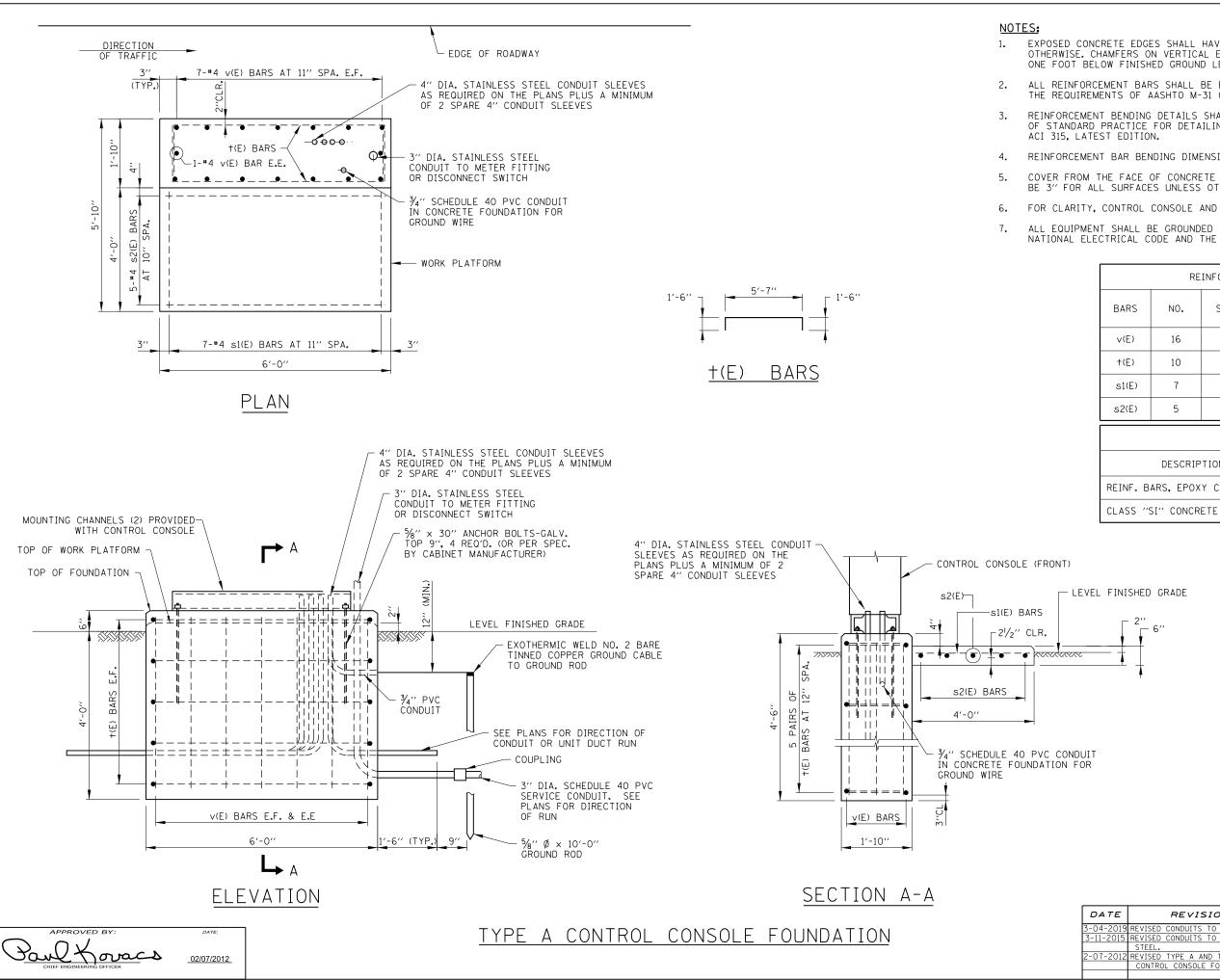
CONTROL CONSOLE DETAILS (EXTERIOR INSTALLATION)



NOTES:

- 1. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 2. TO SERVICE PEDESTAL, 480/240V, 1 PHASE, 3 WIRE, GROUNDED. SEE STANDARD H5.
- 3. ITEM NUMBERS REFER TO EQUIPMENT LIST ON SHEET 1 OF THIS SERIES.
- 4. PROVIDE CIRCUIT BREAKERS PER SCHEDULE ON THE CONTRACT PLANS (MINIMUM OF 12).
- 5. FOR INTERIOR EQUIPMENT LAYOUT SEE SHEET 1 OF THIS SERIES.

	SHEET	2	OF	2
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STANDARD) Н6-	06		



EXPOSED CONCRETE EDGES SHALL HAVE $\frac{3}{4}''\times45^\circ$ chamfers except where shown otherwise. Chamfers on vertical edges shall be continued a minimum of ONE FOOT BELOW FINISHED GROUND LEVEL.

ALL REINFORCEMENT BARS SHALL BE EPOXY COATED (E) AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 (ASTM A615), GRADE 60 DEFORMED BARS.

REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES",

REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.

COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR ALL SURFACES UNLESS OTHERWISE SHOWN.

FOR CLARITY, CONTROL CONSOLE AND RAILINGS ARE NOT SHOWN IN PLAN VIEW.

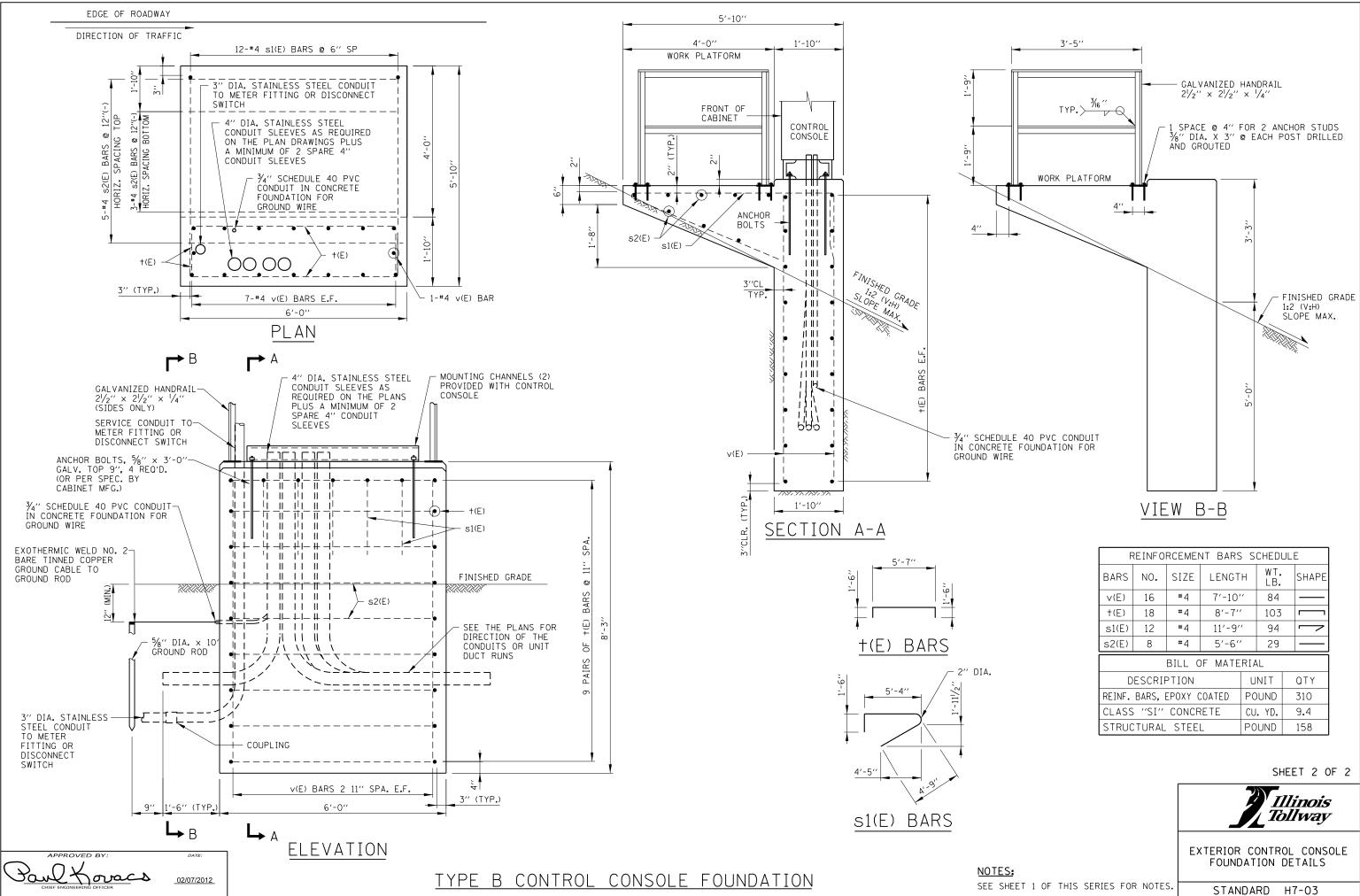
ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.

REINFORCEMENT BARS SCHEDULE							
BARS	NO.	SIZE	LENGTH				SHAPE
v(E)	16	#4	4'-0''		43		
+(E)	10	#4	8'-7''		57		
s1(E)	7	#4	3'-8''		17		
s2(E)	5	#4	5'-8''		19		
	BILL OF MATERIAL						
DESCRIPTION				l	JNIT	۵	UANTITY
REINF. BARS, EPOXY COATED				PO	UND		136
CLASS "S	CLASS "SI" CONCRETE CU					U. YD. 2.3	

LEVEL FINISHED GRADE

		SHEET I OF Z
		Illinois Tollway
DATE	REVISIONS	
3-04-2019	REVISED CONDUITS TO MATCH H5.	EXTERIOR CONTROL CONSOLE
3-11-2015	REVISED CONDUITS TO STAINLESS	FOUNDATION DETAILS
	STEEL.	
2-07-2012	REVISED TYPE A AND TYPE B	
	CONTROL CONSOLE FOUNDATIONS.	STANDARD H7-03

SHEET 1 OF 2



REINFORCEMENT BARS SCHEDULE							
BARS	NO.	SIZE	SIZE LENGTH WT. SH				SHAPE
v(E)	16	#4	7'-10'	· /	84		
+(E)	18 #4 8'-7'' 103 -						
s1(E)	12	#4	11'-9'' 94 🖵		$\overline{}$		
s2(E)	8	#4	5'-6'' 29				
BILL OF MATERIAL							
DESCRIPTION UNIT QTY							
REINF. BARS, EPOXY COATED POUND 310							
CLASS "SI" CONCRETE CU. YD. 9.4				9.4			
STRUCTURAL STEEL POUND 158							

- PROVIDE POWER UTILITY CO. METER HOUSING AS INDICATED ON PLANS.
- 5'-0" MAXIMUM HEIGHT ABOVE GRADE. 2.
- 3.
- 4. ¾" PVC CONDUIT.
- 5.
- TO POWER UTILITY COMPANY, SERVICE AS INDICATED ON PLANS. 6.
- 7. THE SAME AS THE SERVICE.
- 8.
- FOR WIRING DIAGRAM SEE SHEET 2 OF THIS SERIES.
- 10.

ITEM (1)

2

(3)

(4)

(5)

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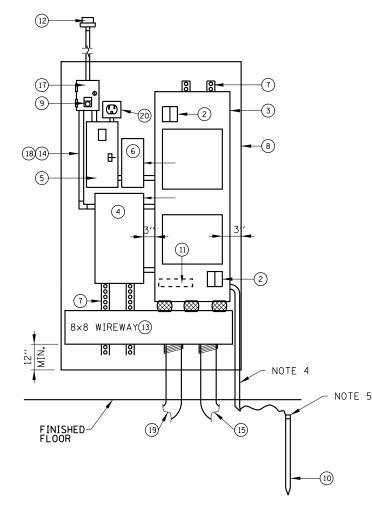
NOTE 2

GRADE

NOTE 3

-(1)

- METER HOUSING, MILBANK U8436-0. SECONDARY SURGE ARRESTERS, 2 POLE, 650 VOLT.
- (7) $1^{1}/_{4}$ " X 3^{1}_{4} " C-CHANNEL (UNISTRUT) FOR ALL EQUIPMENT STANDOFF
- (8) 1/2" EQUIPMENT MOUNTING PANEL (4" W X 7" H)
- (10) 10'-0" LONG GROUND ROD WITHIN GROUND WELL.
- (11)GROUND BUS MOUNTED IN PANELBOARD ENCLOSURE.
- (12)
- (13) 8"x8" WIREWAY WITH 3-3" NIPPLES.
- (14)
- (15)
- (16)
- (17)
- (18) INTERNAL CONDUIT AND FITTINGS SHALL BE $\frac{3}{4}$ " MINIMUM.
- (19)
- (20) GCFI OUTLET.



INTERIOR EQUIPMENT LAYOUT



SERVICE ENTRANCE DETAIL

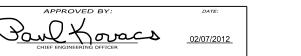
NOTE 7

ON

OFF

M)

(16)





STAINLESS STEEL CONDUIT TO UTILITY SERVICE AS INDICATED ON PLANS.

EXOTHERMIC WELD NO. 2 BARE TINNED COPPER GROUND CABLE TO GROUND ROD 12"-24" BELOW GRADE.

CONDUIT AND CABLE BETWEEN METER FITTING AND DISCONNECT SWITCH. CONDUIT AND CABLE SHALL BE

LABEL ALL EQUIPMENT AS "ROADWAY LIGHTING" + DEVICE AND BUILDING" (IF APPLICABLE).

ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.

DESCRIPTION

MAIN PANELBOARD IN A NEMA 1 ENCLOSURE, 480/240 VOLT, 1 PHASE, 3 WIRE, 2 SECTION, 200 AMP, 2 POLE MAIN CIRCUIT BREAKER 65,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY WITH CIRCUIT BREAKERS PER SCHEDULE ON PLANS. DOOR HINGES ON RIGHT SIDE. LIGHTING CONTRACTOR, ELECTRICALLY HELD, 480 VOLT, 200 AMP, 2 POLE, 120 VOLT CONTROL, WITH 250 VOLT, 15 AMP CONTROL LINE FUSE, IN A NEMA 1 ENCLOSURE. SECONDARY BREAKER, 15 AMPERE TRIP, 120 VOLT, SINGLE POLE, 65,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY IN A NEMA 1 SURFACE MOUNTED ENCLOSURE. STEP DOWN TRANSFORMER, 1500 VA, 480 VOLT PRIMARY, 120 VOLT SECONDARY, SINGLE PHASE, 60 HERTZ, DRY TYPE, NEMA 3R ENCLOSURE. HAND-OFF-AUTO SELECTOR SWITCH WITH LEGEND PLATE. MOUNTED IN THE COVER OF ITEM 17. ROUTED TO BUILDING GROUND SYSTEM. IF NO GROUND AVAILABLE CONTRACTOR SHALL PROVIDE 5/8" DIA. X PHOTO ELECTRIC CONTROL SWITCH MOUNTED ON SOUTH EXTERIOR SIDE OF BUILDING (VIEW UNOBSTRUCTED). INTERNAL CONTROL WIRING SHALL BE #12 AWG, STRANDED, INSULATED NEC TYPE THWN/THHN RATED 600 VOLT, WITH SUITABLE COLOR CODING TO BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION. 2" STAINLESS STEEL CONDUIT FROM SERVICE SAFETY SWITCH TO LIGHTING CONTROLLER WIREWAY. SERVICE SAFETY SWITCH, 200 AMP, 600 VOLT, NON-FUSED, NEMA 4X STAINLESS STEEL ENCLOSURE. NEMA TYPE 1, 8"x6"x4" JUNCTION BOX & COVER WITHOUT KNOCKOUTS. ITEM 9 IS MOUNTED IN THE COVER.

(2) 4" STAINLESS STEEL CONDUIT TO LIGHTING CONTROLLER HANDHOLE. REFER TO SITE PLAN FOR LOCATION.

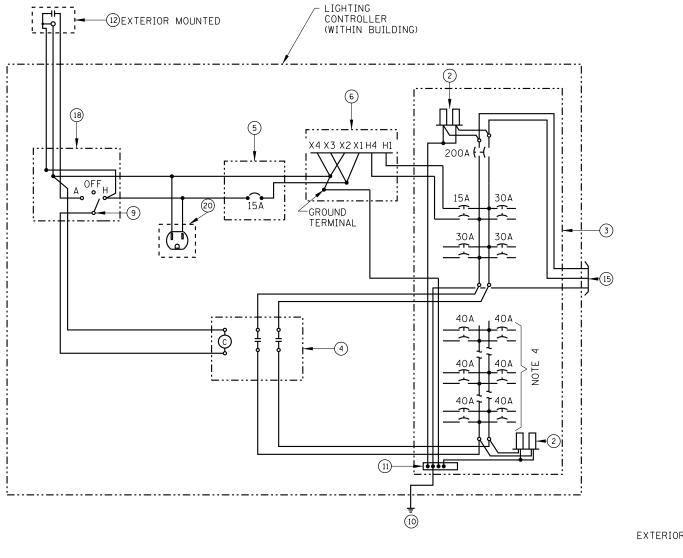
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Illinois ' Tollway

INTERIOR CONTROL CONSOLE DETAILS

DATE	REVISIONS
3-01-2018	REMOVED CONTRACTOR RELAY,
	ADDED GCFI OUTLET.
	REMOVED MFR. & PART NUMBERS.
3-31-2016	REVISED NOTE 2.

STANDARD H8-03



CONTROL CONSOLE WIRING DIAGRAM

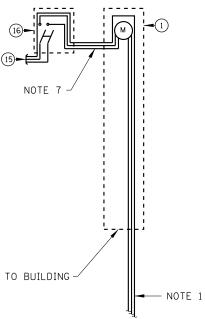
EXTERIOR TO BUILDING

CONTROL CONSOLE DETAILS (INTERIOR INSTALLATION)

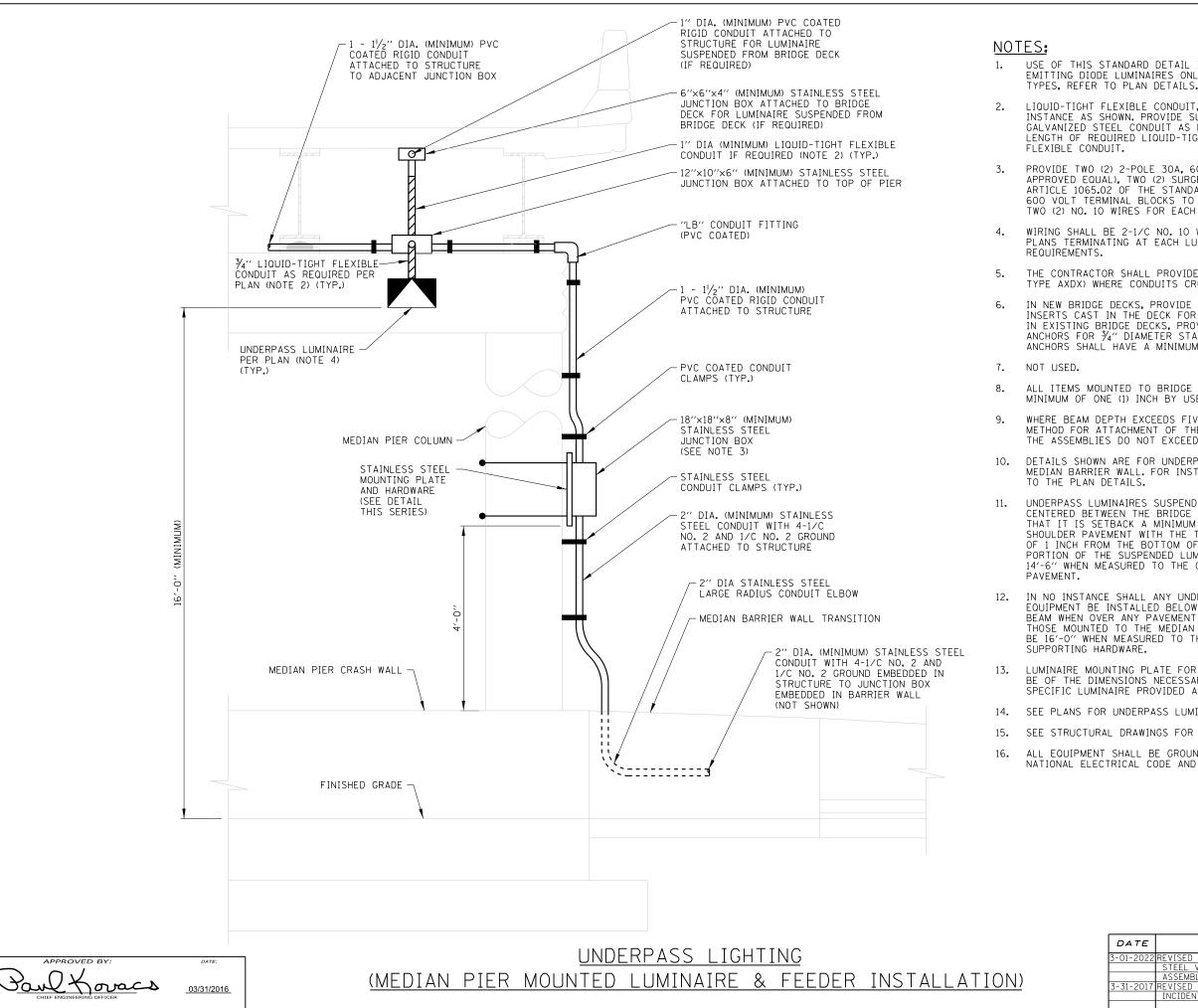
APPROVED BY Paul Koracs 02/07/2012

NOTES:

- TO UTILITY SERVICE. 480/240V, 1 PHASE, 3 WIRE, GROUNDED, WHEN A METER HOUSING IS REQUIRED (FED FROM PAD MOUNTED UTILITY 1. TRANSFORMER WITHIN ILLINOIS TOLLWAY RIGHT-OF-WAY).
- 2. TO SERVICE PEDESTAL, 480/240V, 1 PHASE, 3 WIRE, GROUNDED. SEE STANDARD H5.
- 3. ITEM NUMBERS REFER TO EQUIPMENT LIST ON SHEET 1 OF THIS SERIES.
- PROVIDE CIRCUIT BREAKERS PER SCHEDULE ON THE CONTRACT 4. PLANS (MINIMUM OF 12).
- FOR INTERIOR EQUIPMENT LAYOUT SEE SHEET 1 OF THIS SERIES. 5.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE. 6.
- CONDUIT AND CABLE BETWEEN METER FITTING AND DISCONNECT SWITCH ROUTED BETWEEN CONTROL CONSOLE AND CONCRETE FOUNDATION, WHEN A METER HOUSING IS REQUIRED. CONDUIT AND CABLE SHALL BE THE SAME AS THE SERVICE. 7.



	SHEET	2	OF	2
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CONTROL	RIOR CONSC AILS	DLE		
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USE OF THIS STANDARD DETAIL IS LIMITED TO THE INSTALLATION OF LIGHT EMITTING DIODE LUMINAIRES ONLY. FOR INSTALLATION OF OTHER LIGHT SOURCE

LIQUID-TIGHT FLEXIBLE CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN, PROVIDE SUFFICIENT LENGTH OF PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED CONDUIT AS REQUIRED SO THE MAXIMUM LENGTH OF REQUIRED LIQUID-TIGHT DOES NOT EXCEED 6'-0". LIQUID-TIGHT

PROVIDE TWO (2) 2-POLE 30A, 600 VOLT CIRCUIT BREAKERS (EATON HFD OR APPROVED EQUAL), TWO (2) SURGE PROTECTION DEVICES (IN ACCORDANCE WITH ARTICLE 1065.02 OF THE STANDARD SPECIFICATIONS) AND SUFFICIENT 30 AMPERE, 600 VOLT TERMINAL BLOCKS TO SPLIT 480 VOLT WIRING FROM CIRCUIT BREAKER TO TWO (2) NO. 10 WIRES FOR EACH LUMINAIRE.

WIRING SHALL BE 2-1/C NO. 10 WITH 1/C NO. 10 GROUND OR AS INDICATED ON THE PLANS TERMINATING AT EACH LUMINAIRE. SEE PLANS FOR REMAINING WIRING

THE CONTRACTOR SHALL PROVIDE EXPANSION/DEFLECTION FITTINGS (0-Z/GEDNEY TYPE AXDX) WHERE CONDUITS CROSS STRUCTURE EXPANSION JOINTS.

IN NEW BRIDGE DECKS, PROVIDE STAINLESS STEEL SINGLE COIL, FLARED LOOP INSERTS CAST IN THE DECK FOR $\frac{3}{4}$ " DIAMETER STAINLESS STEEL THREADED RODS. IN EXISTING BRIDGE DECKS, PROVIDE DRILLED STAINLESS STEEL EXPANSION TYPE ANCHORS FOR $\frac{3}{4}$ " DIAMETER STAINLESS STEEL THREADED RODS. EXPANSION TYPE ANCHORS SHALL HAVE A MINIMUM OF 500 POUNDS CAPACITY EACH.

ALL ITEMS MOUNTED TO BRIDGE PIER SHALL BE OFFSET FROM THE STRUCTURE A MINIMUM OF ONE (1) INCH BY USE OF STAINLESS STEEL C-CHANNEL.

WHERE BEAM DEPTH EXCEEDS FIVE (5) FEET, THE DESIGNER SHALL PROVIDE A METHOD FOR ATTACHMENT OF THE HANGER ASSEMBLIES SUCH THAT THE LENGTH OF THE ASSEMBLIES DO NOT EXCEED FIVE (5) FEET.

DETAILS SHOWN ARE FOR UNDERPASS LIGHTING INSTALLATIONS FED FROM THE MEDIAN BARRIER WALL. FOR INSTALLATIONS FED FROM A BRIDGE ABUTMENT, REFER

UNDERPASS LUMINAIRES SUSPENDED FROM BRIDGE DECK SHALL BE INSTALLED CENTERED BETWEEN THE BRIDGE BEAMS. THE LUMINAIRE SHALL BE LOCATED SUCH THAT IT IS SETBACK A MINIMUM OF 1 FOOT FROM THE OUTSIDE EDGE OF THE SHOULDER PAVEMENT WITH THE TOP OF THE LUMINAIRE MOUNTING PLATE A MAXIMUM OF 1 INCH FROM THE BOTTOM OF THE BRIDGE BEAM. IN NO CASE SHALL ANY PORTION OF THE SUSPENDED LUMINAIRE OR SUPPORTING HARDWARE BE LOWER THAN 14'-6'' WHEN MEASURED TO THE OUTSIDE EDGE OF THE ADJACENT SHOULDER

IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER) WITH EXCEPTION OF THOSE MOUNTED TO THE MEDIAN PIER AT WHICH CASE THE MINIMUM HEIGHT SHALL BE 16'-0" WHEN MEASURED TO THE LOWEST PORTION OF THE LUMINAIRE OR

13. LUMINAIRE MOUNTING PLATE FOR LUMINAIRES SUSPENDED FROM BRIDGE DECK SHALL BE OF THE DIMENSIONS NECESSARY AND FIELD DRILLED TO ACCOMMODATE THE SPECIFIC LUMINAIRE PROVIDED AND ASSOCIATE LUMINAIRE HANGER ASSEMBLIES.

14. SEE PLANS FOR UNDERPASS LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS.

SEE STRUCTURAL DRAWINGS FOR SPECIFIC STRUCTURE DETAILS.

ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.

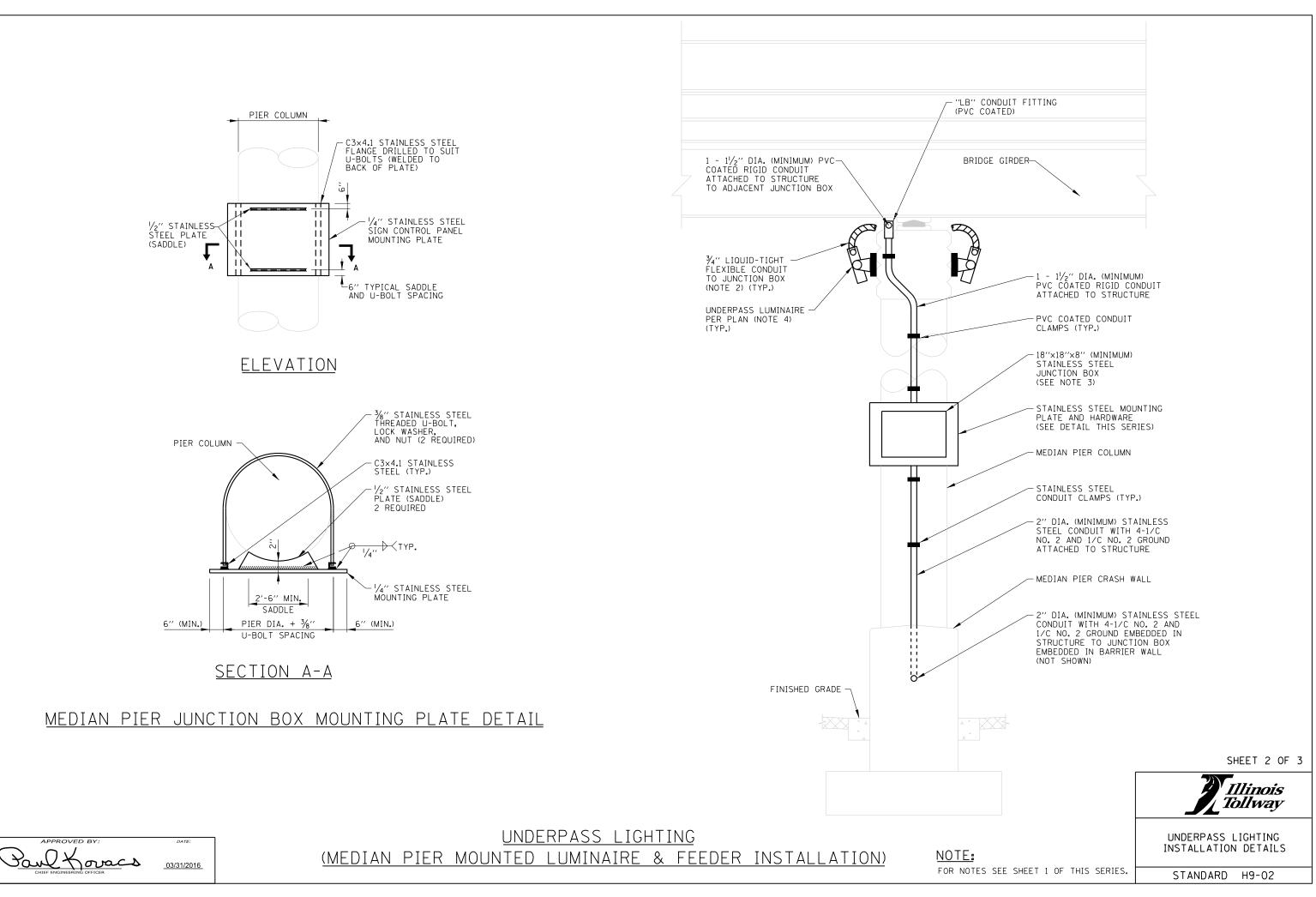
DATE	REVISIONS	
3-01-2022	REVISED CALLOUT FOR STAINLESS STEEL VIBRATION DAMPER	
3-31-2017	ASSEMBLY REVISED NOTES TO REMOVE	
	INCIDENTALS	

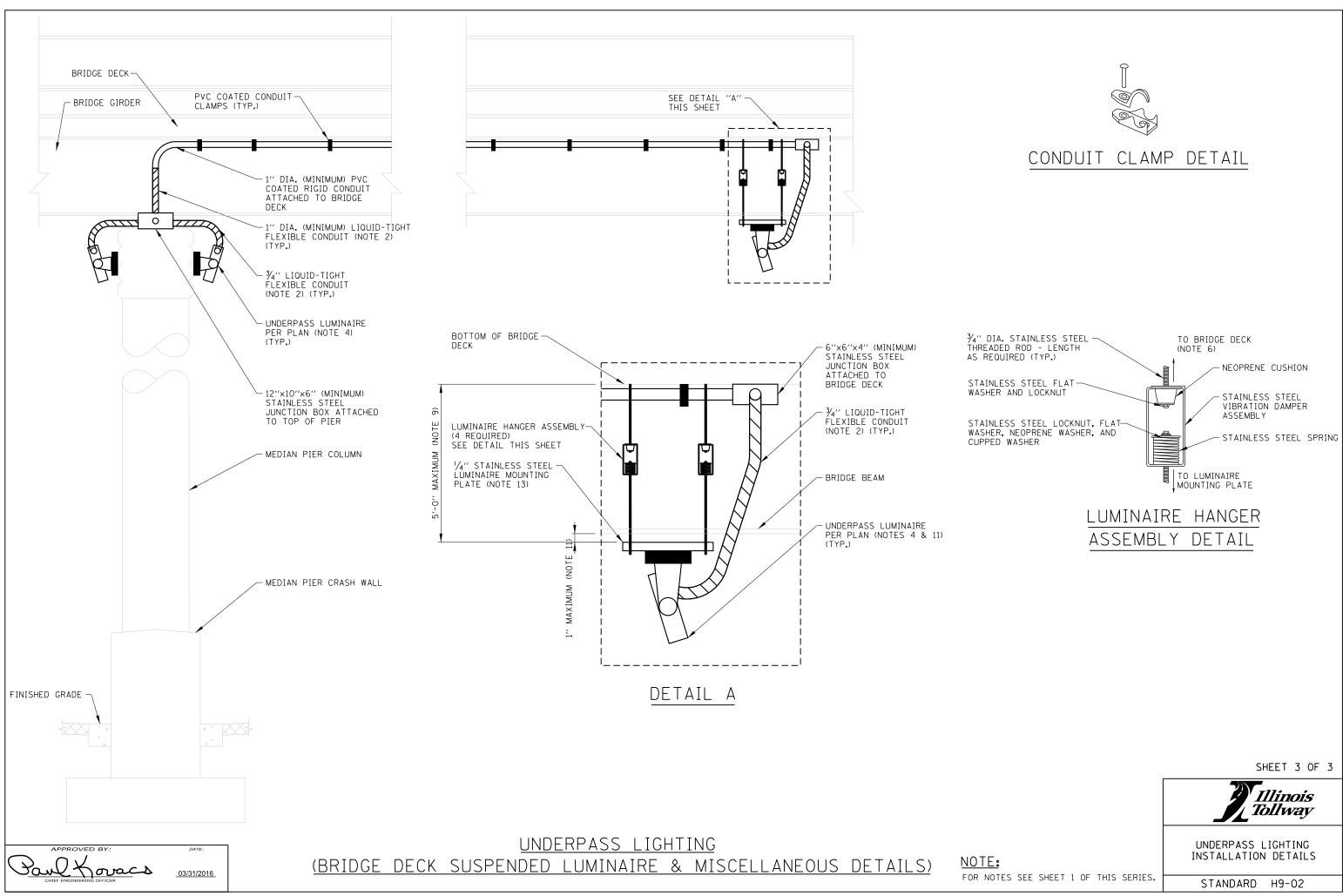
SHEET 1 OF 3

Illinois Tollway

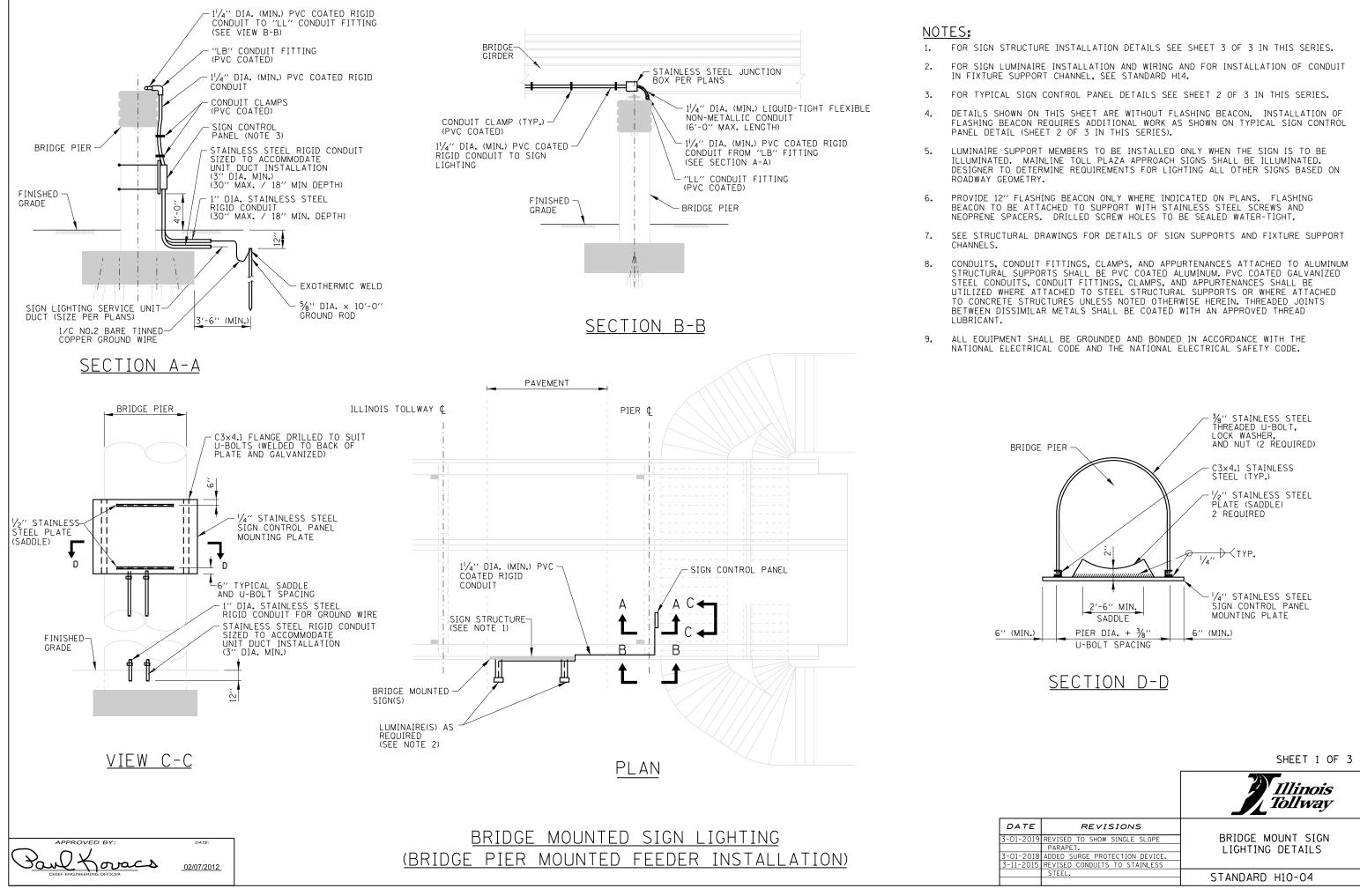
UNDERPASS LIGHTING INSTALLATION DETAILS

STANDARD H9-02

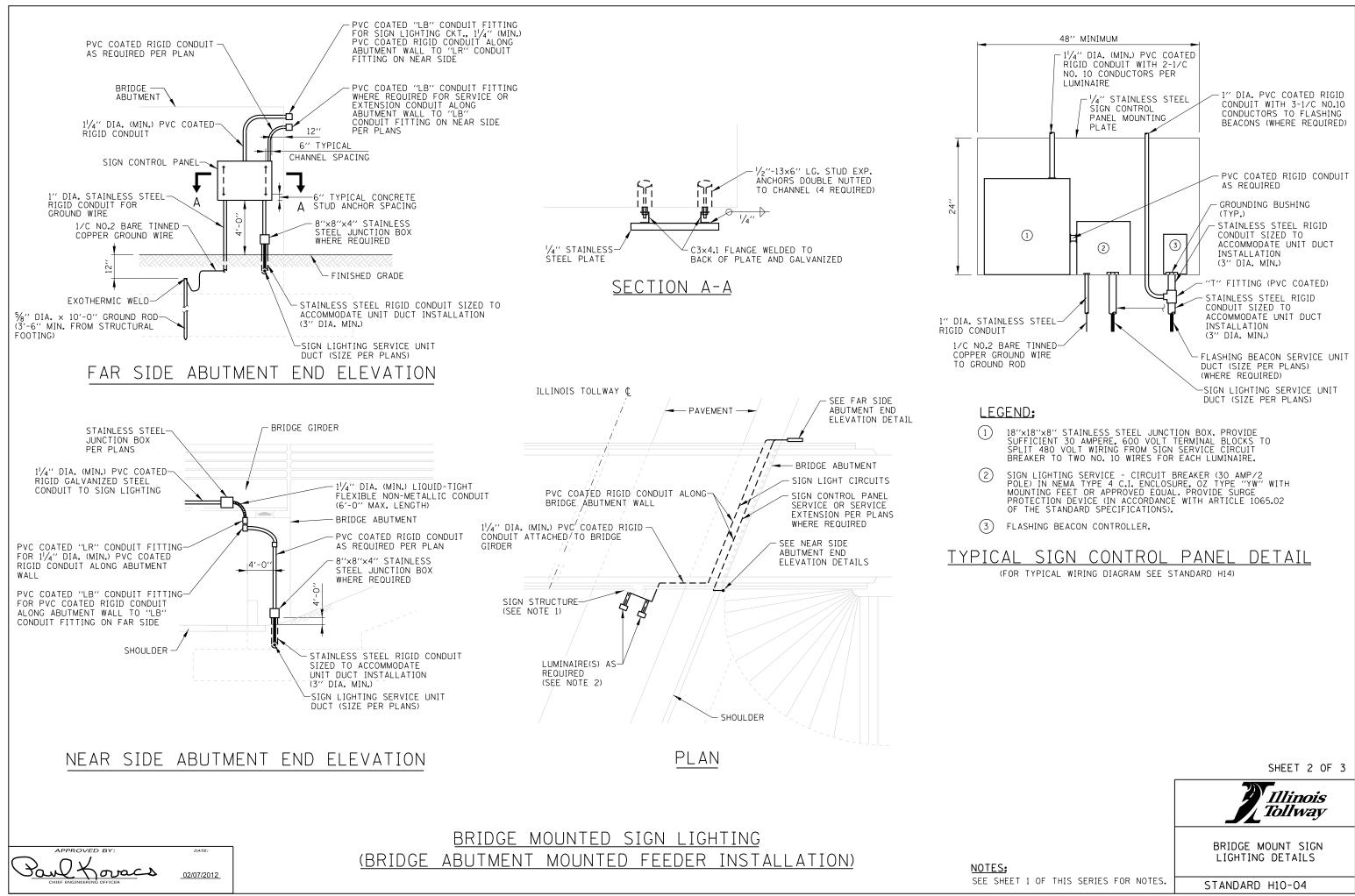


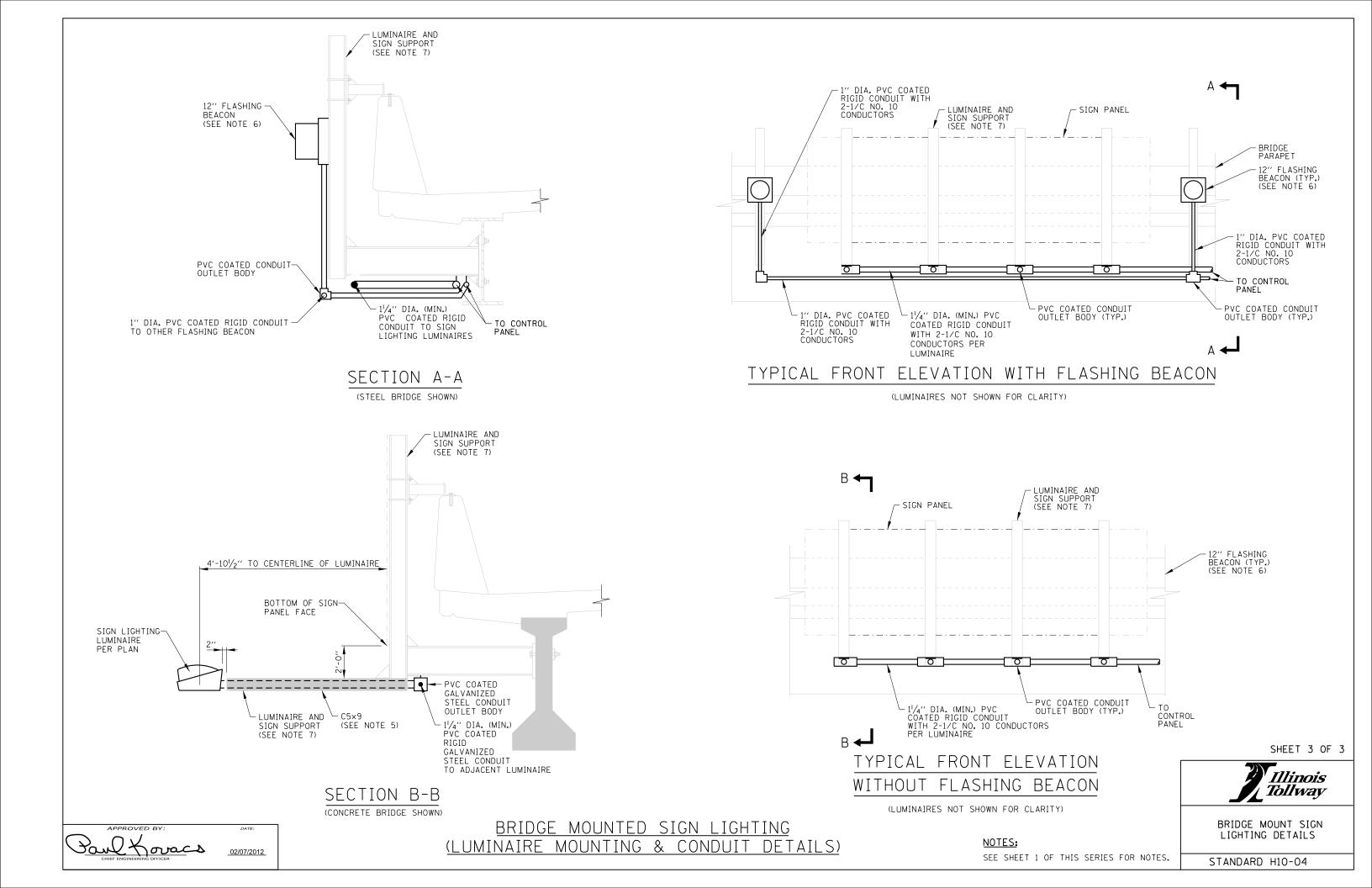


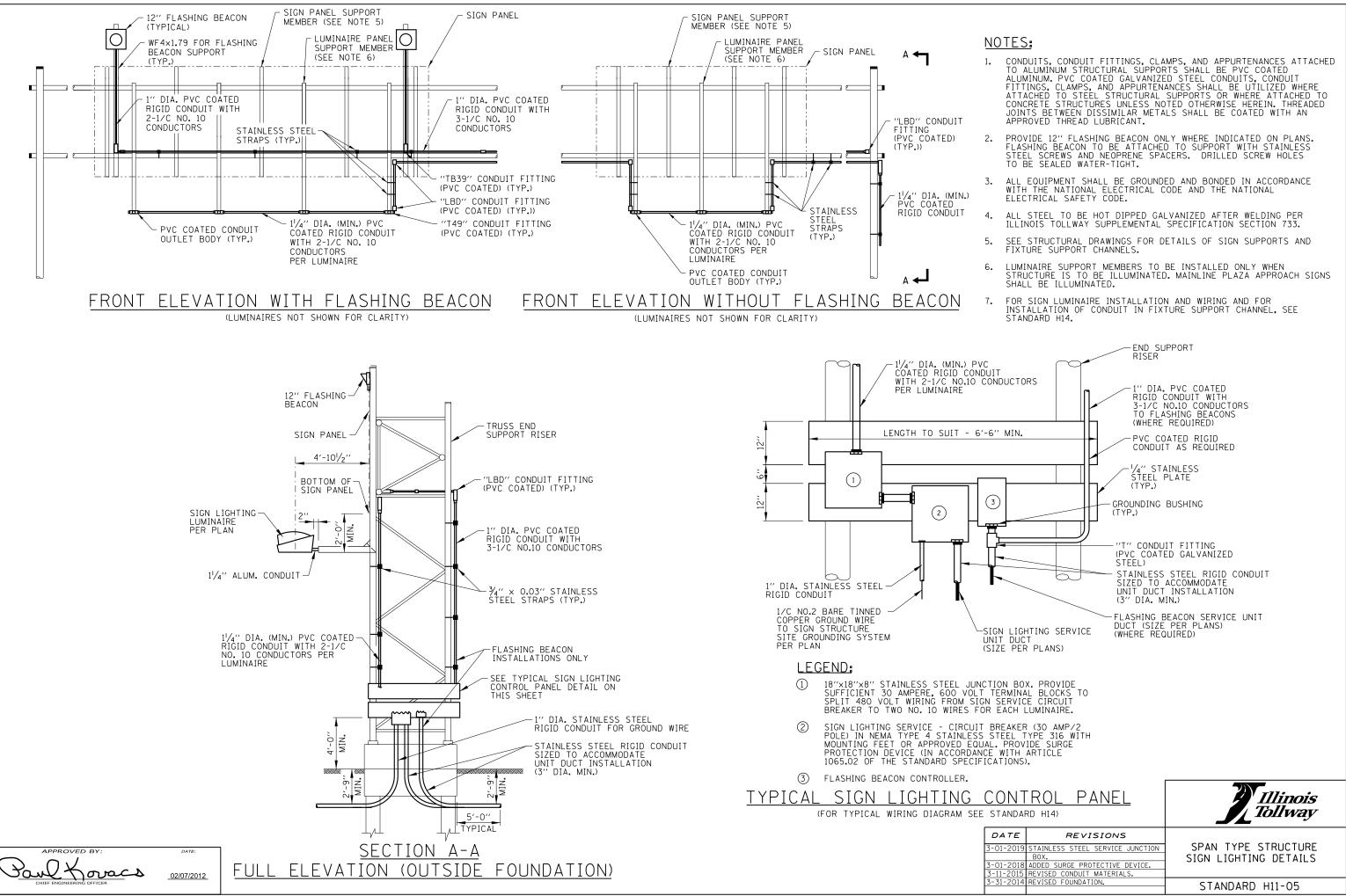


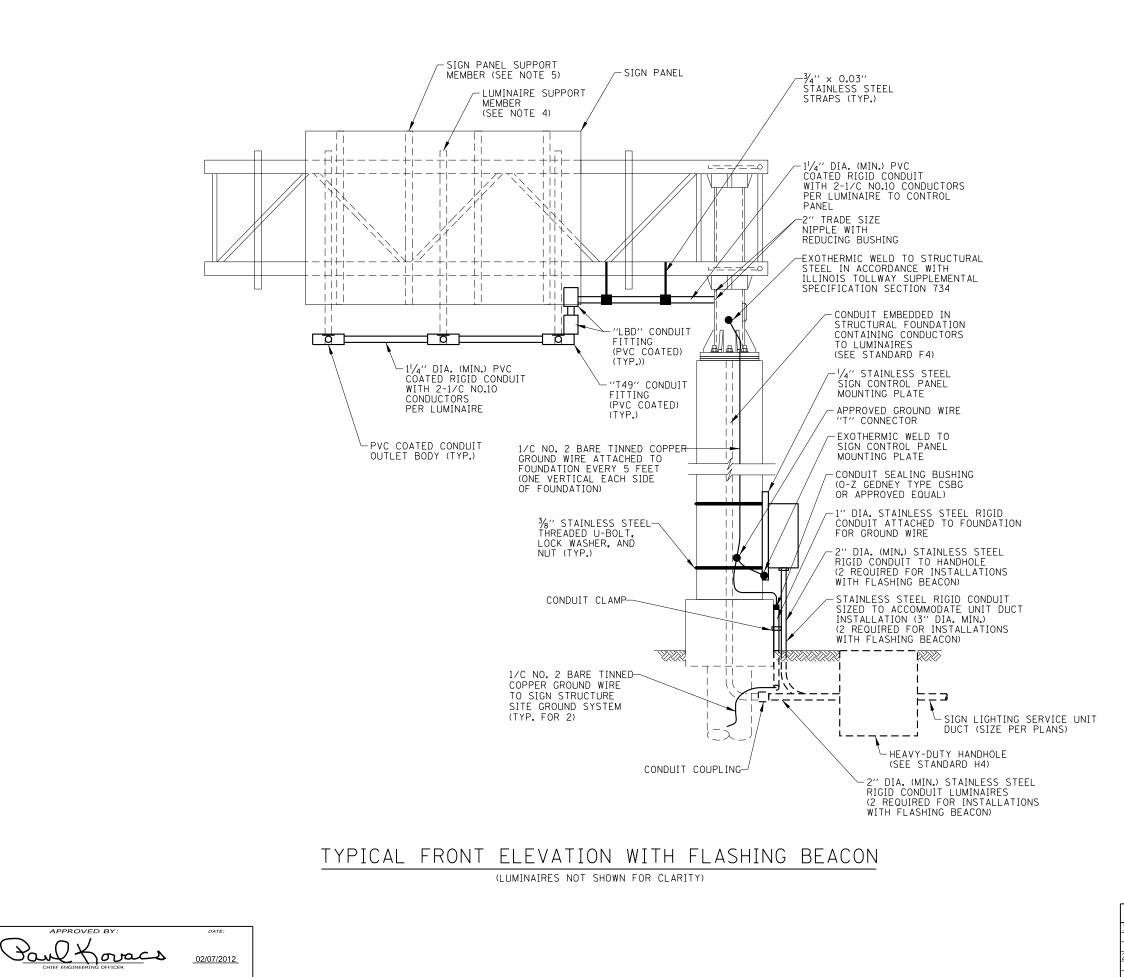


		SHEET I OF 3
		Illinois Tollway
DATE	REVISIONS	
3-01-2019	REVISED TO SHOW SINGLE SLOPE	BRIDGE MOUNT SIGN
	PARAPET.	LIGHTING DETAILS
3-01-2018	ADDED SURGE PROTECTION DEVICE.	
3-11-2015	REVISED CONDUITS TO STAINLESS	
	STEEL.	STANDARD H10-04
		STANDARD HIG OF









- 1. A GROUND WIRE (NO. 12 AWG.) WILL BE RUN FROM THE GROUNDING BUSHING (OVERHEAD SUPPORT) TO THE GROUNDING BUSHING IN THE JUNCTION BOX.
- 2. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 3. CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES ATTACHED TO ALUMINUM STRUCTURAL SUPPORTS SHALL BE PVC COATED ALUMINUM. PVC COATED GALVANIZED STEEL CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES SHALL BE UTILIZED WHERE ATTACHED TO STEEL STRUCTURAL SUPPORTS OR WHERE ATTACHED TO CONCRETE STRUCTURES UNLESS NOTED OTHERWISE HEREIN. THREADED JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH AN APPROVED THREAD LUBRICANT.
- 4. LUMINAIRE SUPPORT MEMBERS TO BE INSTALLED ONLY WHEN THE SIGN IS TO BE ILLUMINATED. MAINLINE TOLL PLAZA APPROACH SIGNS SHALL BE ILLUMINATED.
- 5. SEE STRUCTURAL DRAWINGS FOR DETAILS OF SIGN SUPPORTS AND FIXTURE SUPPORT CHANNELS.
- 6. FOR SIGN LUMINAIRE INSTALLATION AND WIRING AND FOR INSTALLATION OF CONDUIT IN FIXTURE SUPPORT CHANNEL, SEE STANDARD H14.
- 7. ALL STEEL TO BE HOT DIPPED GALVANIZED AFTER WELDING PER ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATION SECTION 733.
- 8. PROVIDE 12" FLASHING BEACON ONLY WHERE INDICATED ON PLANS. FLASHING BEACON TO BE ATTACHED TO SUPPORT WITH STAINLESS STEEL SCREWS AND NEOPRENE SPACERS. DRILLED SCREW HOLES TO BE SEALED WATERTIGHT.

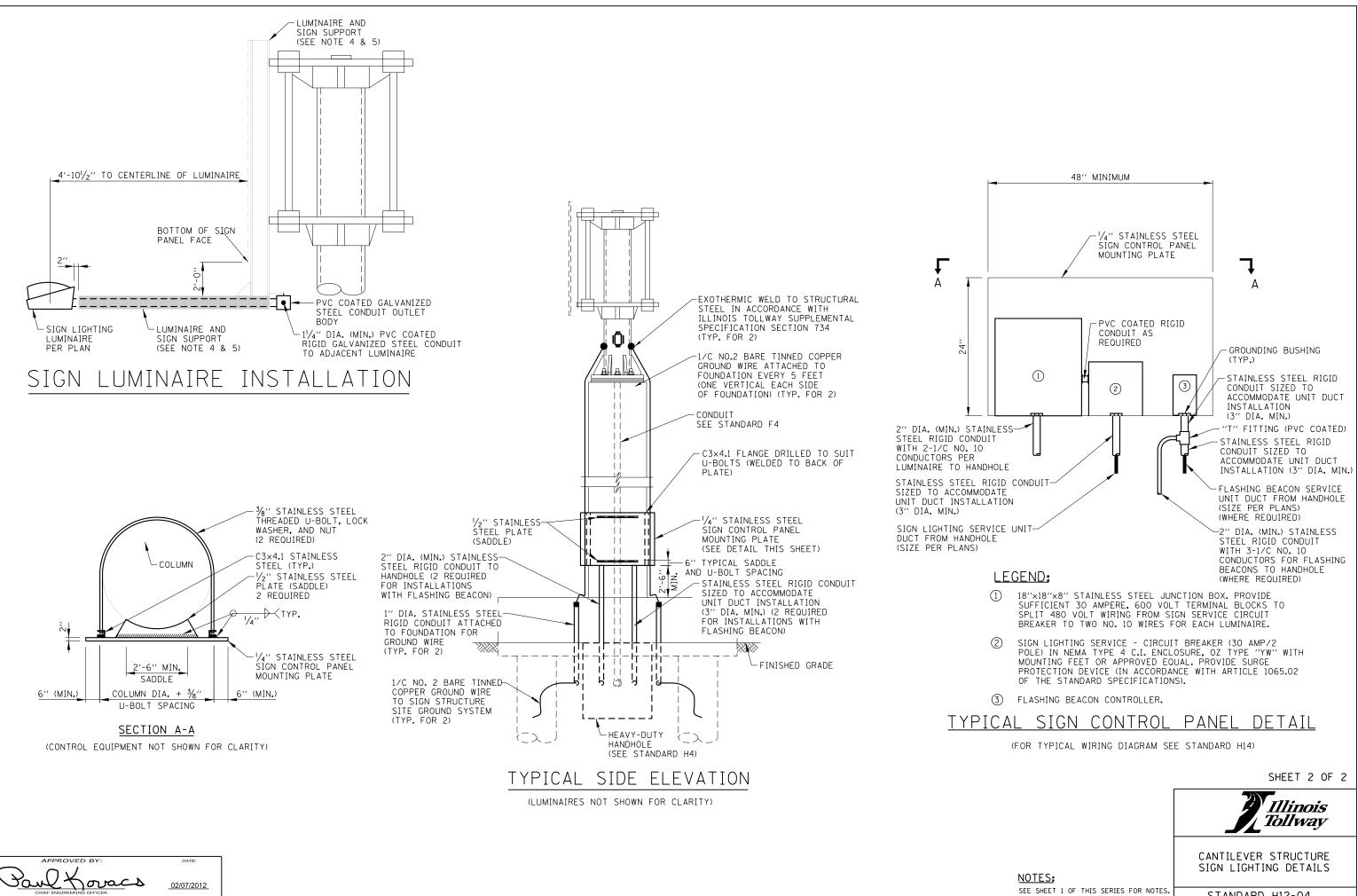
SHEET 1 OF 2

Illinois Tollway

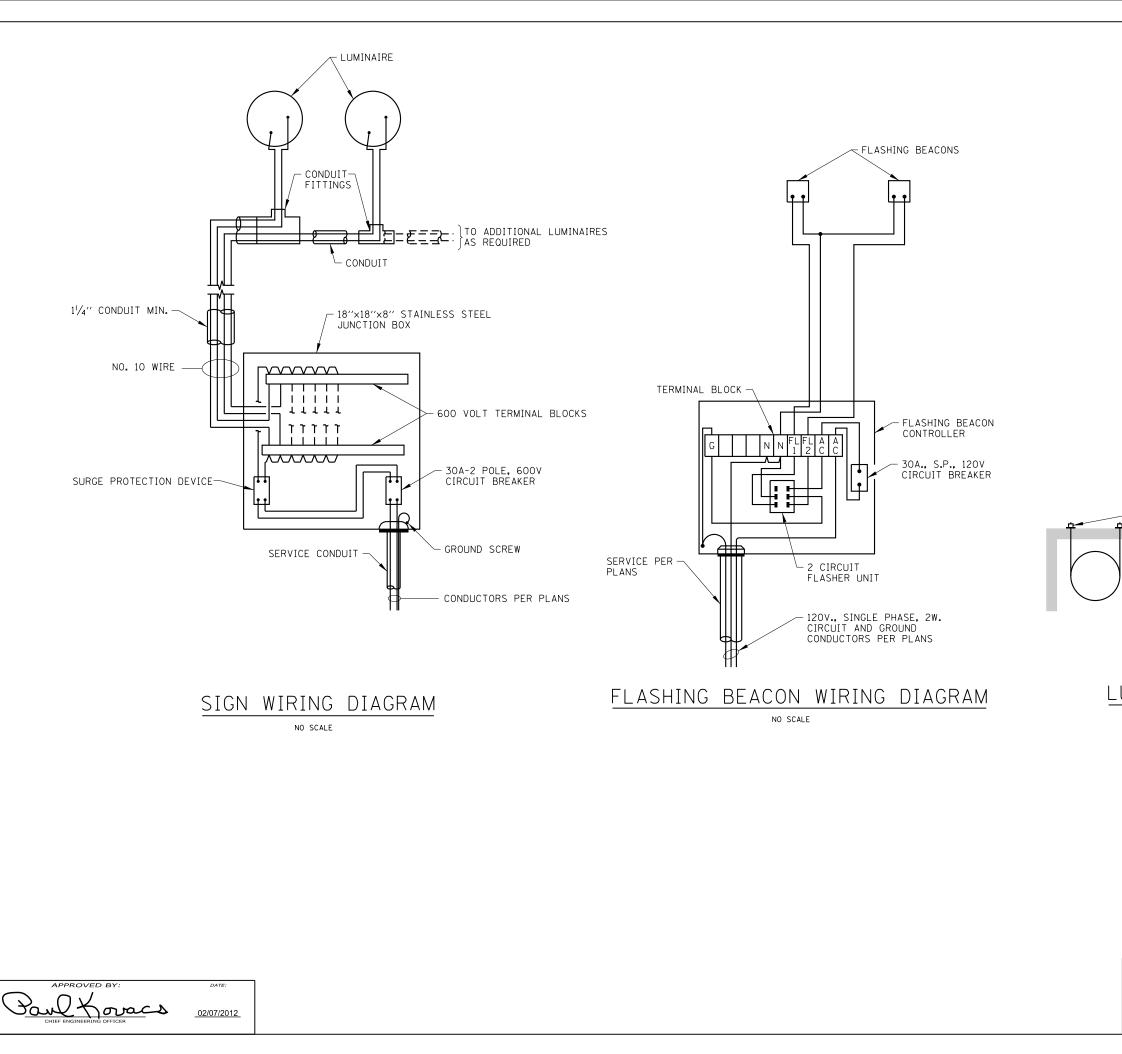
CANTILEVER STRUCTURE SIGN LIGHTING DETAILS

DATE REVISIONS 3-01-2018 ADDED SURGE PROTECTION DEVICE. 3-11-2015 REVISED CONDUITS TO STAINLESS STEL. 2-07-2012 ADDED SIGN POST SUPPORT MEMBERS, REVISED NOTES, REMOVED CANISTER BALLAST AND ADDED JUNCTION BOX.

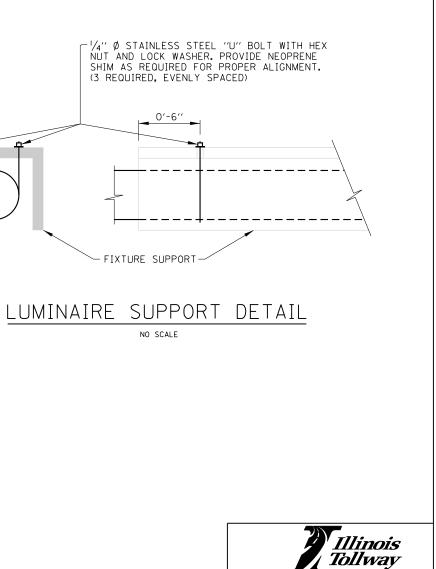
STANDARD H12-04



STANDARD H12-04

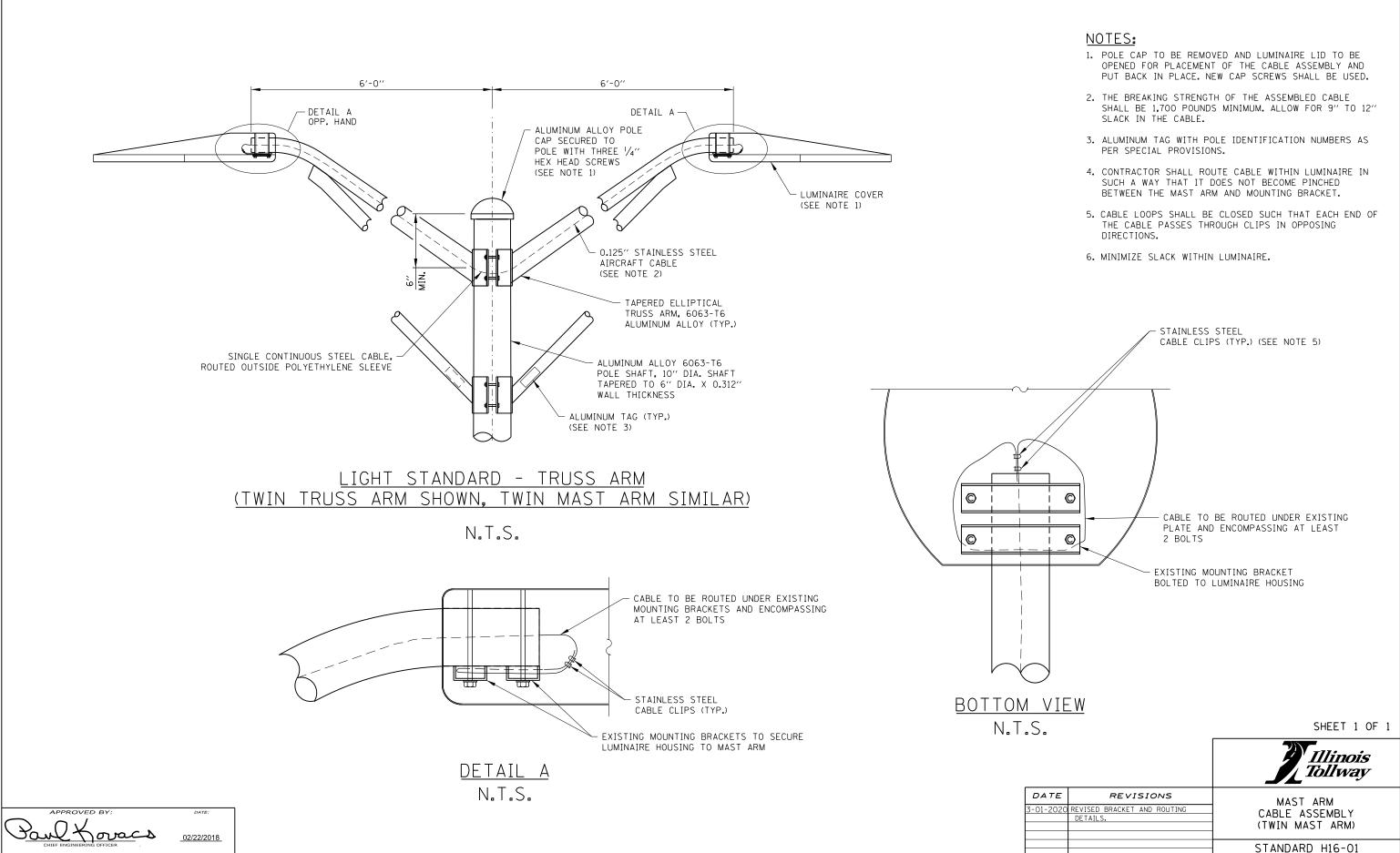


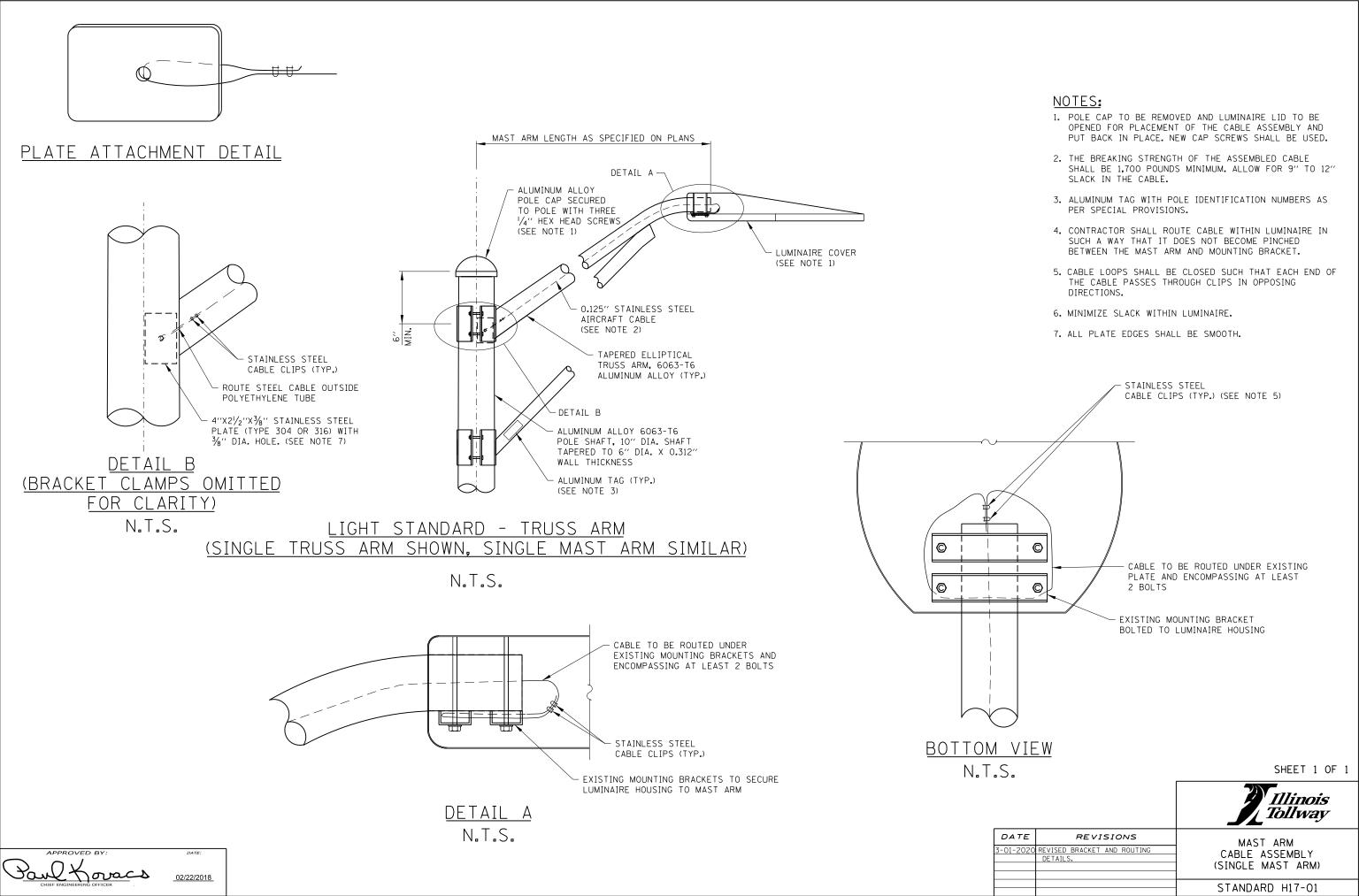
- 1. SEE STRUCTURAL DRAWINGS FOR DETAILS OF SIGN SUPPORTS AND FIXTURE SUPPORT CHANNELS.
- 2. CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES ATTACHED TO ALUMINUM STRUCTURAL SUPPORTS SHALL BE PVC COATED ALUMINUM. PVC COATED GALVANIZED STEEL CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES SHALL BE UTILIZED WHERE ATTACHED TO STEEL STRUCTURAL SUPPORTS OR WHERE ATTACHED TO CONCRETE STRUCTURES UNLESS NOTED OTHERWISE HEREIN. THREADED JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH AN APPROVED THREAD LUBRICANT.
- 3. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 4. INSTALL SURGE PROTECTION DEVICE IN ACCORDANCE WITH ARTICLE 1065.02 OF THE SUPPLEMENTAL SPECIFICATIONS.

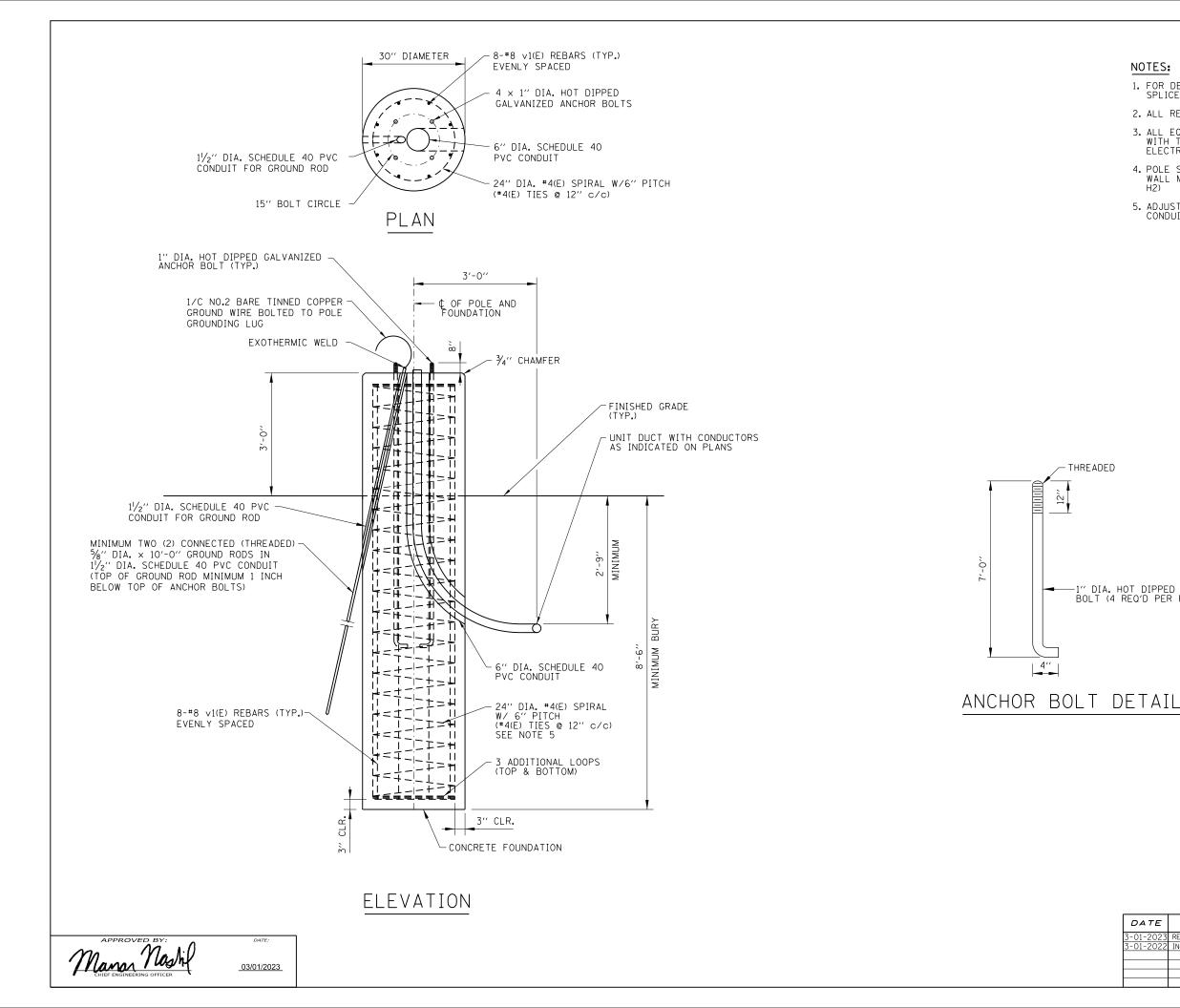


DATE	REVISIONS	
3-01-2020	REVISED NOTES.	
3-01-2018	TYPOGRAPHICAL CORRECTIONS.	
3-11-2015	REVISED NOTES.	
2-07-2012	REMOVED CANISTER BALLASTS, NEW	
	JUNCTION BOX AND TERMINAL BLOCKS.	









- 1. FOR DETAILS OF FUSE HOLDER, POLE BASE WIRING AND CONDUCTOR SPLICE SEE STANDARD H2.
- 2. ALL REINFORCEMENT BARS SHALL BE EPOXY COATED.
- 3. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 4. POLE SHALL BE MOUNTED AND WIRED PER DETAIL FOR "BARRIER WALL MOUNTED UNITS" ON LIGHT STANDARD DETAILS (STANDARD H2)
- 5. ADJUST SPIRAL BAR SPACING AS NEEDED TO ACCOMMODATE CONDUIT ENTRANCE.

-1" DIA. HOT DIPPED GALVANIZED ANCHOR BOLT (4 REQ'D PER FOUNDATION)

SHEET 1 OF 1

Illinois | Tollway

PARKING LOT LIGHT FOUNDATION DETAILS

DATE	REVISIONS
3-01-2023	REVISED v1(E) BARS FROM #6 TO #8.
3-01-2022	INCREASED ANCHOR BOLT PROJECTION.

STANDARD H18-02