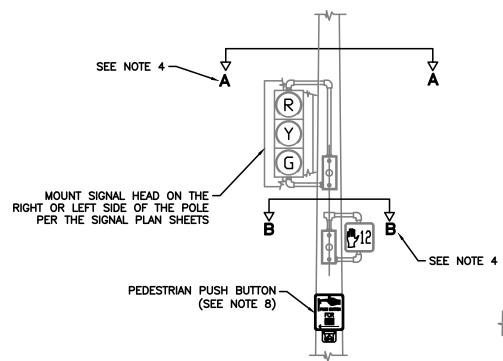
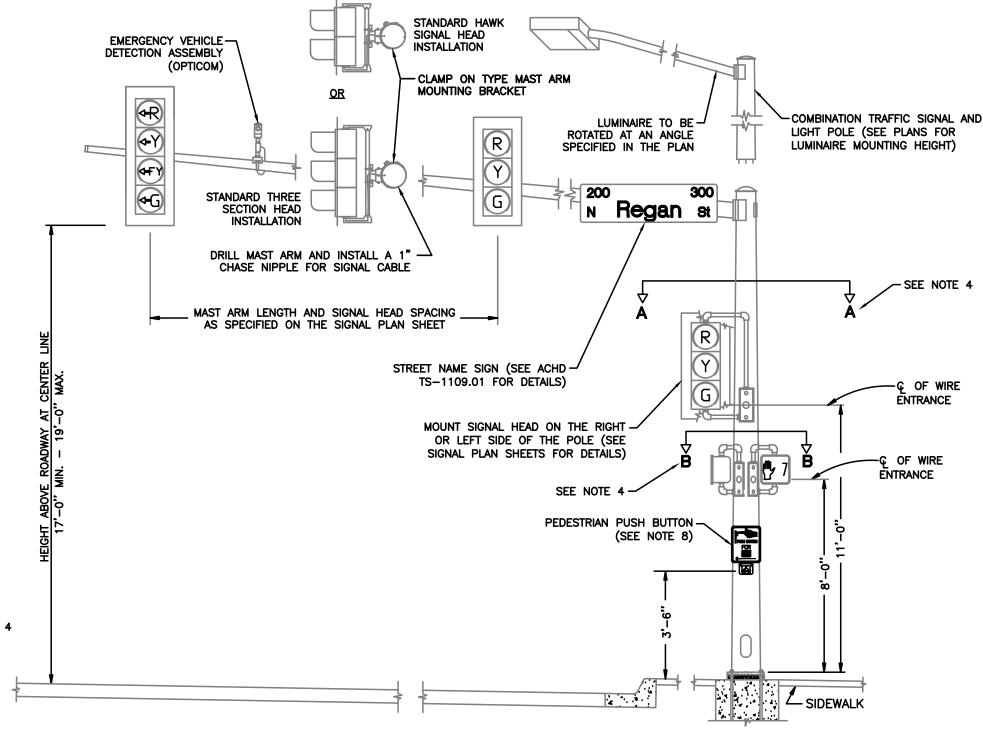
NOTES:

- THIS STANDARD DETAIL SHOWS TYPICAL INSTALLATION. SEE SIGNAL PLAN SHEETS FOR QUANTITY OF SIGNAL AND LIGHTING COMPONENTS TO BE INSTALLED.
- ORIENTATION OF SIGNAL COMPONENTS SHALL BE AS SHOWN, UNLESS OTHERWISE SPECIFIED ON THE SIGNAL PLAN SHEETS.
- 3. SEE ACHD DETAIL TS-1110.01 FOR FOUNDATION DETAILS.
- SEE ACHD DETAIL TS-1106.02 FOR TYPICAL SIGNAL AND PED HEAD INSTALLATION DETAILS.
- 5. ALL SIGNAL COMPONENTS SHALL BE LEVELED AFTER THE POLE HAS BEEN PLUMBED.
- 6. THE SPECIFIC LOCATION OF EACH POLE SHALL BE AS INDICATED ON THE SIGNAL PLAN SHEETS. POLE LOCATIONS SHALL BE VERIFIED BY ACHD PRIOR TO FOUNDATION INSTALLATION.
- 7. ALL SIGNALS SHALL COMPLY WITH THE MOST RECENTLY ADOPTED EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 8. PED PUSH BUTTONS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS, IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE MOST RECENTLY ADOPTED EDITION OF THE MUTCD.







MAST ARM POLE W/TWO PED SIGNAL BRACKETS

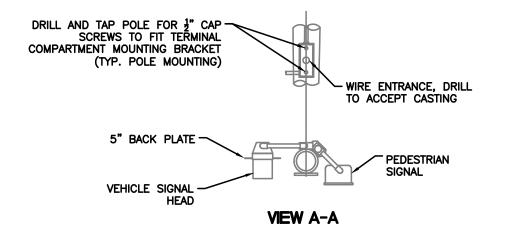
Traffic Engineering Division

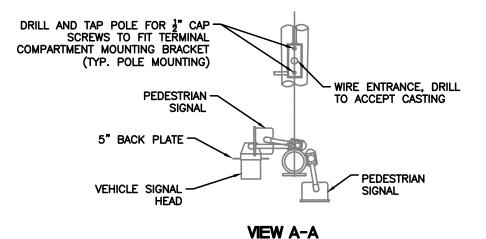
Scale: NTS Drawn By: Joshua Saak
Date: 12/18/2011 Design By: Joshua Saak
File: TS-1106.01.DWG Approved By: Greg Fullerton

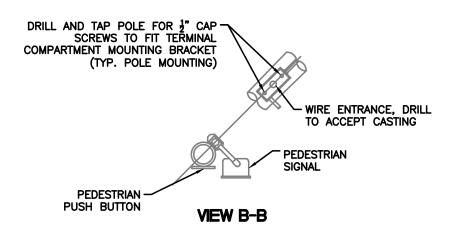
• SIGNATURES •
• SHEET TITLE •

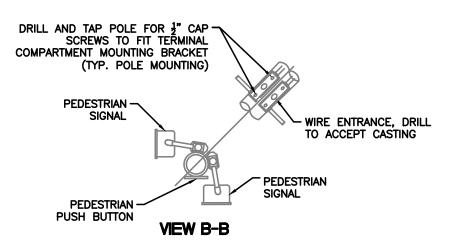
Standard Traffic Signal Mast Arm

• STANDARD DETAIL NO. • TS-1106.01







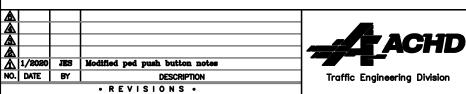


MAST ARM POLE W/SINGLE PED POLE BRACKET

MAST ARM POLE W/TWO PED SIGNAL BRACKETS

NOTES:

- 1. THIS DRAWING SHOWS TYPICAL INSTALLATION DETAILS ONLY. SEE PLAN SHEETS FOR QUANTITY AND LOCATION OF SIGNAL AND LIGHTING COMPONENTS TO BE INSTALLED.
- 2. SIGNAL COMPONENT ORIENTATION SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON THE PLAN SHEETS.
- 3. SEE ACHD STANDARD DRAWING TS-1110.01 FOR FOUNDATION DETAILS.
- 4. SEE ACHD STANDARD DRAWING TS-1106.01 FOR TYPICAL SIGNAL MAST ARM AND POLE DETAILS.
- 5. ALL SIGNAL COMPONENTS SHALL BE LEVELED AFTER THE POLE HAS BEEN PLUMBED.
- 6. THE SPECIFIC LOCATION OF EACH POLE INSTALLATION SHALL BE AS INDICATED ON THE PROJECT PLAN SHEETS. THE LOCATION SHALL BE FIELD VERIFIED BY ACHD PRIOR TO FOUNDATION INSTALLATION.
- 7. ALL CONDUIT ELBOWS USED IN CONCRETE BASES SHALL BE RPC.
- 8. PED PUSH BUTTONS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS, IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE MOST RECENTLY ADOPTED EDITION OF THE MUTCD.



• SIGNATURES •

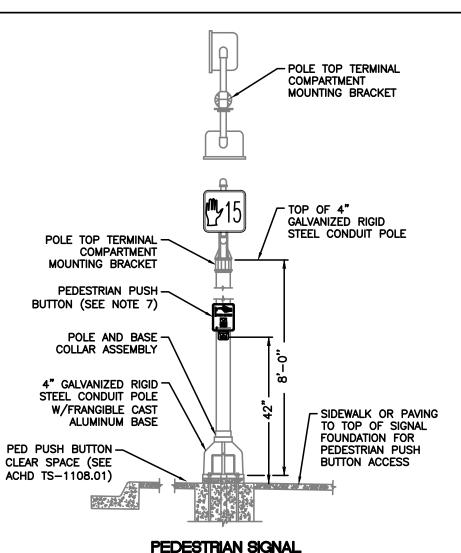
Scole: NTS Drawn By: Joshua Saak

Date: 11/22/2021 Design By: Joshua Saak

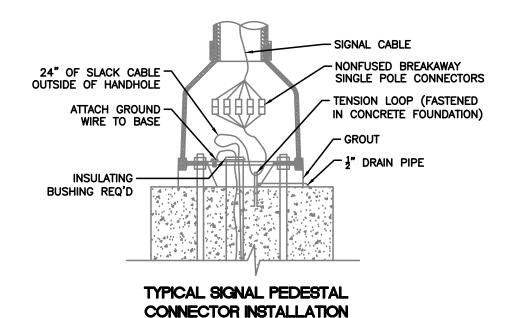
File: TS-1106.02.DWG Approved By: Greg Fullerton

Standard Traffic Signal Pole Details

12842 OPHUA ECILION. •

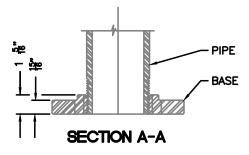


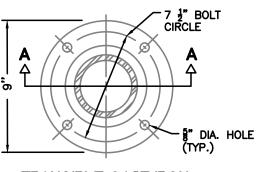
W/BREAKAWAY BASE



PEDESTRIAN SEE DETAIL A PUSH BUTTON (SEE NOTE 7) PIPE 4" DIA. (SCHED. ₹" DIA. X 18" GALVANIZED ANCHOR BOLTS SEE DETAIL B

PEDESTRIAN PUSH **BUTTON POLE**

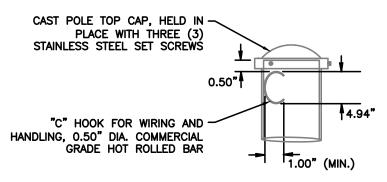




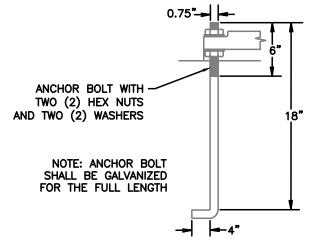
FRANGIBLE CAST IRON PIPE FLANGE

NOTES:

- THIS DRAWING SHOWS TYPICAL INSTALLATION DETAILS ONLY. SEE PLAN SHEETS FOR QUANTITY AND LOCATION OF SIGNAL AND LIGHTING COMPONENTS TO BE INSTALLED.
- SIGNAL COMPONENT ORIENTATION SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON THE PLAN SHEETS.
- 3. SEE ACHD STANDARD DRAWING TS-1110.01 FOR FOUNDATION DETAILS.
- ALL SIGNAL COMPONENTS SHALL BE LEVELED AFTER THE POLE HAS BEEN
- SPECIFIC LOCATION OF EACH POLE INSTALLATION SHALL BE AS INDICATED ON THE PROJECT PLAN SHEETS. THE LOCATION SHALL BE FIELD VERIFIED BY ACHD PRIOR TO FOUNDATION INSTALLATION.
- 6. ALL CONDUIT ELBOWS USED IN CONCRETE BASES SHALL BE RPC.
- PED PUSH BUTTONS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).



PEDESTRIAN PUSH BUTTON POLE - DETAIL A



PEDESTRIAN PUSH BUTTON POLE - DETAIL B

NO. DATE BY DESCRIPTION Traffic Engineering Division · REVISIONS · 3775 Adams Street Boise, ID 83714 www.achdidaho.org

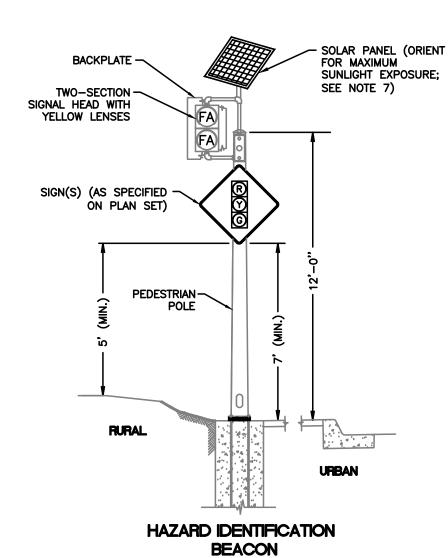
• SIGNATURES • Scale: NTS Joshua Saak Date: 12/3/2021 Joshua Saak File: TS-1106.03.DWG Approved By: Greg Fullerton

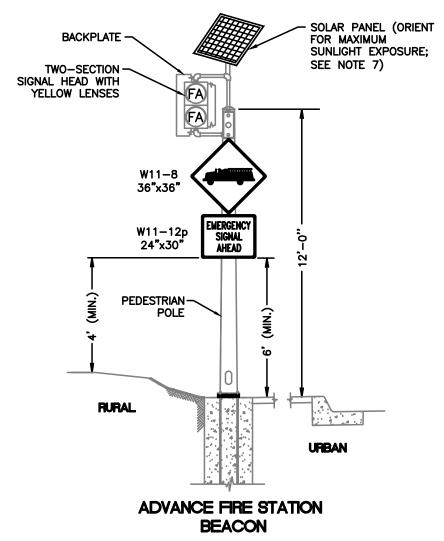
· SHEET TITLE · Standard Breakaway Pedestrian Signal Pole Details

• STANDARD DETAIL NO. TS-1106.03

NOTES:

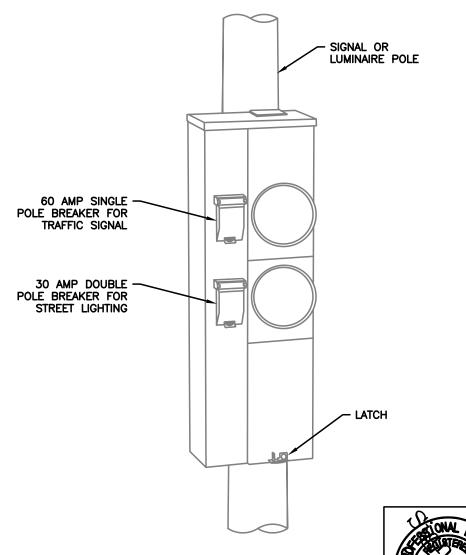
- THIS DRAWING SHOWS TYPICAL INSTALLATION DETAILS ONLY. SEE PLAN SHEETS FOR QUANTITY AND LOCATION OF SIGNAL AND SIGNAL RELATED COMPONENTS TO BE INSTALLED.
- 2. SIGNAL COMPONENT ORIENTATION SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON THE PLAN SHEETS.
- SEE ACHD STANDARD DRAWING TS-1110.01 FOR FOUNDATION DETAILS.
- ALL SIGNAL COMPONENTS SHALL BE LEVELED AFTER THE POLE HAS BEEN PLUMBED.
- 5. SPECIFIC LOCATION OF EACH POLE INSTALLATION SHALL BE AS INDICATED ON THE PROJECT PLAN SHEETS. THE LOCATION SHALL BE FIELD VERIFIED BY ACHD PRIOR TO FOUNDATION INSTALLATION.
- 6. ALL CONDUIT ELBOWS USED IN CONCRETE BASES SHALL BE RPC.
- 7. SOLAR PANELS, WHEN SPECIFIED ON THE PLANS, SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDED INSTRUCTIONS.





NOTES:

- 1. THIS DRAWING SHOWS TYPICAL INSTALLATION DETAILS ONLY. SEE PLAN SHEETS FOR QUANTITY AND LOCATION OF SIGNAL AND SIGNAL RELATED COMPONENTS TO BE INSTALLED.
- 2. ORIENTATION SHALL BE SHOWN AS SPECIFIED ON THE PLAN SHEETS.
- GROUND NEW SERVICE PER THE NATIONAL ELECTRICAL CODE (NEC) AND ALL STATE AND LOCAL REGULATIONS.
- 4. NEW ELECTRICAL SERVICE SHALL BE INSPECTED BY THE DIVISION OF BUILDING SAFETY.
- COORDINATE WITH IDAHO POWER TO DISCONNECT POWER FOR WORK TO TAKE PLACE.
- F APPLICABLE, COORDINATE WITH BOISE CITY TO HAVE THE METER INSTALLED FOR STREET LIGHTING.
- IF APPLICABLE, THE TRAFFIC SIGNAL SHALL REMAIN OPERATIONAL BY GENERATOR DURING POWER OUTAGES.
- 8. IF APPLICABLE, ALL TRAFFIC SHALL BE STOPPED USING AN APPROVED TRAFFIC CONTROL PLAN DURING CONNECTION AND DISCONNECTION OF THE GENERATOR.

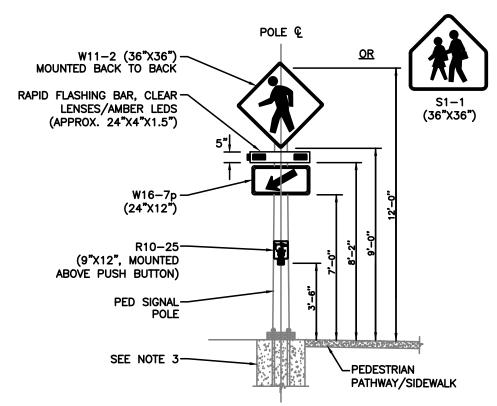


POLE MOUNTED DUAL METER SERVICE ENCLOSURE

Traffic Engineering Division

• SHEET TITLE •

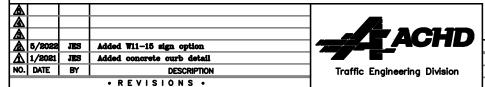
Standard Pedestrian Signal Pole and Hazard Beacon Details



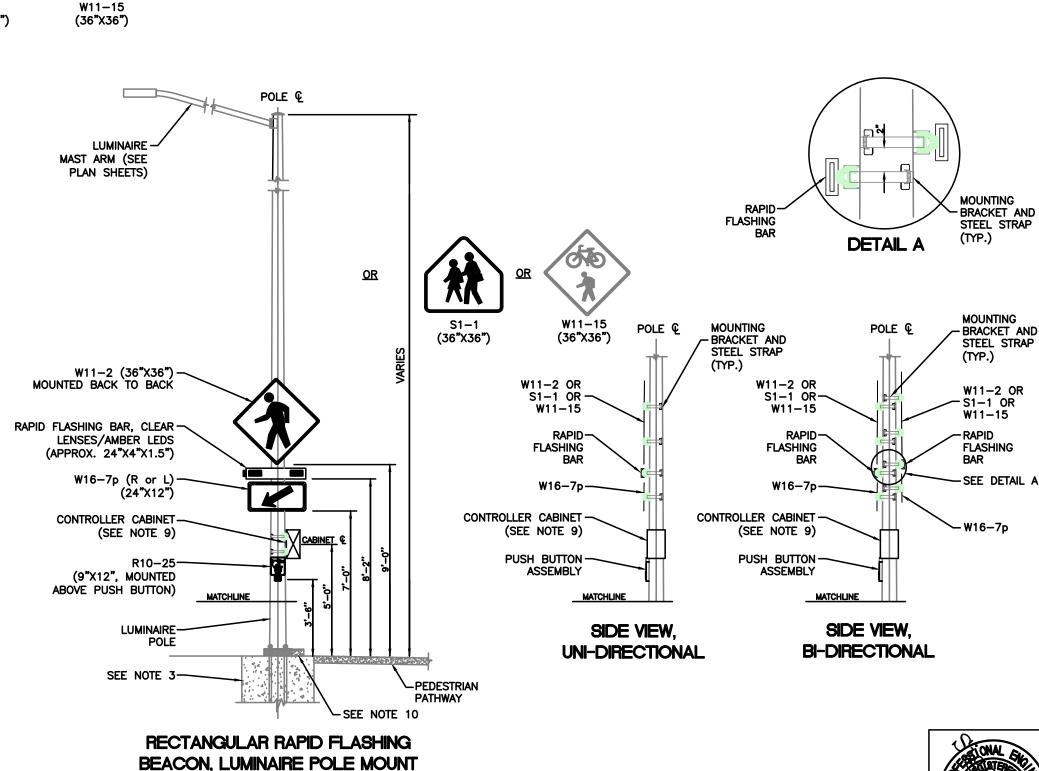
RECTANGULAR RAPID FLASHING BEACON, PEDESTRIAN POLE MOUNT

NOTES:

- THIS DRAWING SHOWS TYPICAL INSTALLATION DETAILS ONLY. SEE PLAN SHEETS FOR QUANTITY AND LOCATION OF SIGNAL AND LIGHTING COMPONENTS TO BE INSTALLED.
- ORIENTATION OF SIGNAL COMPONENTS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON THE PLAN SHEETS.
- SEE ACHD STANDARD DRAWING TS-1110.01 FOR FOUNDATION DETAILS.
- ALL SIGNAL COMPONENTS SHALL BE LEVELED AFTER THE POLE HAS BEEN 4. PLUMBED.
- SPECIFIC LOCATION OF EACH POLE INSTALLATION SHALL BE AS INDICATED ON THE PROJECT PLAN SHEETS. THE LOCATION SHALL BE FIELD VERIFIED BY ACHD PRIOR TO FOUNDATION INSTALLATION.
- ALL CONDUIT ELBOWS USED IN CONCRETE BASES SHALL BE RPC.
- SEE ACHD STANDARD DETAIL TS-1108 FOR PED PUSHBUTTON DETAILS. PED PUSHBUTTONS SHALL BE INSTALLED IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT.
- TERMINATE RRFB CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
- CONTROL CABINET ENCLOSURES SHALL BE SIZED BY THE RRFB MANUFACTURER. CABINET LOCATION SHALL BE INSTALLED ACCORDING TO THE PROJECT PLAN SHEETS.
- 10. INSTALL RAISED CONCRETE CURB (6" HEIGHT) UNDER RRFB CONTROLLER CABINET. CURB SHOULD ENCOMPASS THE ENTIRE WIDTH AND DEPTH OF THE CONTROLLER ABOVE AND BE EITHER EPOXIED INTO OR BOLTED TO THE SIDEWALK. CURB SHALL NOT IMPEDE ON PEDESTRIAN SPACE OR LIMIT SIDEWALK WIDTH TO LESS THAN THAT REQUIRED BY THE ADA.



Ada County Highway District



· SHEET TITLE ·

Rectangular Rapid Flashing Beacon

(RRFB) Details

• SIGNATURES •

Joshua Saak

Joshua Saak

Approved By: Greg Fullerton

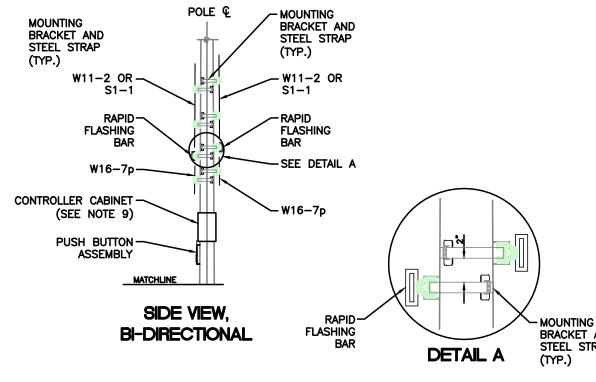
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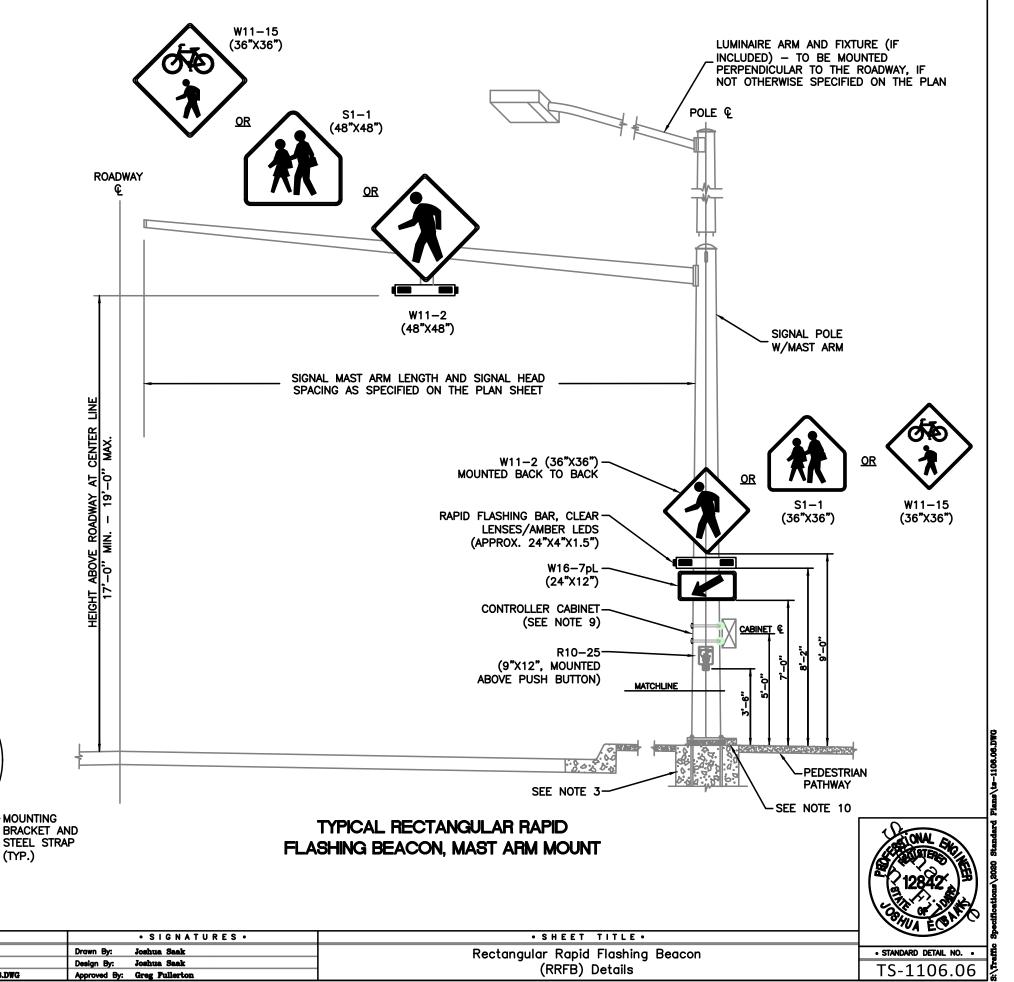
Date: 11/28/2016

File: TS-1106.05.DWG

• STANDARD DETAIL NO.

NOTES: THIS DRAWING SHOWS TYPICAL INSTALLATION DETAILS ONLY. SEE PLAN SHEETS FOR QUANTITY AND LOCATION OF SIGNAL AND LIGHTING COMPONENTS TO BE INSTALLED. ORIENTATION OF SIGNAL COMPONENTS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON THE PLAN SHEETS. 3. SEE ACHD STANDARD DRAWING TS-1110.01 FOR FOUNDATION DETAILS. ALL SIGNAL COMPONENTS SHALL BE LEVELED AFTER THE POLE HAS BEEN 4. PLUMBED. SPECIFIC LOCATION OF EACH POLE INSTALLATION SHALL BE AS INDICATED ON THE PROJECT PLAN SHEETS. THE LOCATION SHALL BE FIELD VERIFIED BY ACHD PRIOR TO FOUNDATION INSTALLATION. ALL CONDUIT ELBOWS USED IN CONCRETE BASES SHALL BE RPC. SEE ACHD STANDARD DETAIL TS-1108 FOR PED PUSHBUTTON DETAILS. PED PUSHBUTTONS SHALL BE INSTALLED IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT. TERMINATE RRFB CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS. CONTROL CABINET ENCLOSURES SHALL BE SIZED BY THE RRFB MANUFACTURER. CABINET LOCATION SHALL BE INSTALLED ACCORDING TO THE PROJECT PLAN SHEETS. 10. INSTALL RAISED CONCRETE CURB (6" HEIGHT) UNDER RRFB CONTROLLER CABINET. CURB SHOULD ENCOMPASS THE ENTIRE WIDTH AND DEPTH OF THE CONTROLLER ABOVE AND BE EITHER EPOXIED INTO OR BOLTED TO THE SIDEWALK. CURB SHALL NOT IMPEDE ON PEDESTRIAN SPACE OR LIMIT SIDEWALK WIDTH TO LESS THAN THAT REQUIRED BY THE ADA. POLE & MOUNTING MOUNTING BRACKET AND BRACKET AND STEEL STRAP STEEL STRAP (TYP.) (TYP.)



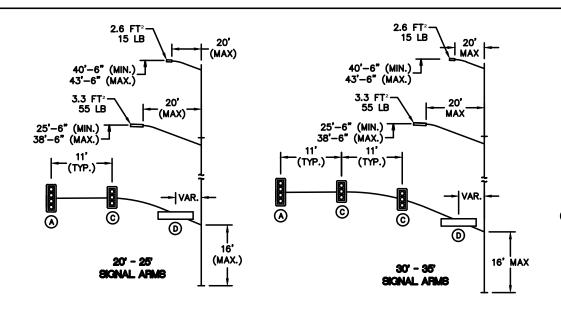


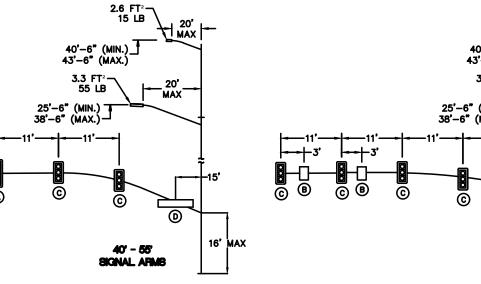
Traffic Engineering Division

Scale: NTS

Date: 12/6/2021

File: TS-1106.06.DWG





2.6 FT ² 15 LB 20' 40'-6" (MIN.) 3.3 FT ² 55 LB 25'-6" (MIN.) 38'-6" (MAX.)
35 = 0 (MAX.) — 11' — 15' — 15' — © ® ® ©
60' - 65' SIGNAL ARMS

WEIGHT (LBS) PROJ. AREA (FT2) DEVICE DESCRIPTION 10.90 12"-4 SEC. SIGNAL WITH BACKPLATES 45 30" X 36" DIRECTIONAL SIGN 7.50 25 12"-3 SEC. SIGNAL WITH BACKPLATES 8.50 ±35 ±20.00 30" X VAR. STREET NAME SIGN

TYPE "B"

EXTENSION

TYPE "A" OR "C" EXTENSION

SEE POLE

DATA

DETAIL 1

DETAIL 3-

DETAIL 4

DETAIL 10 -DETAIL 4 -

DETAIL 5-

1'-6"

DETAIL 5

DETAIL 5

(17' EXT. ONLY) DETAIL 10 -DETAIL 6 DESIGN CRITERIA: 1994 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.

WIND VELOCITY: 80 MPH ISOTACH.

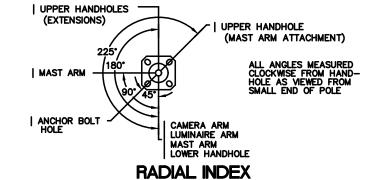
LOADING INFORMATION

MATERIAL DATA						
COMPONENT	DESIGNATION	MIN. YIELD (KSI)				
TAPERED TUBES-7 & 3 GAUGE	A595 GR.A	55				
TAPERED TUBES-ALL OTHERS	A572	65				
BASE PLATE	A36	36				
SIGNAL ARM ATTACHMENT	A36	36				
SIGNAL ARM CONN. BOLTS	A325					
LUMINAIRE ARM ATTACHMENT	A36	36				
LUMINAIRE ARM CONN. BOLTS	SAE GR. 5					
ANCHOR BOLTS (RED COLOR)	ASTM F1554	105				
ANCHOR BOLTS (YELLOW COLOR)	ASTM F1554	55				
NUTS	ASTM A563 GR. A					
WASHERS	ASTM F436					
GALVANIZING-HARDWARE	A153					

FINISH NOTES							
POLES, LUMINAIRE ARMS & MAST ARMS UP TO 55' SPAN	60' & 65' MAST ARM SPAN (OPTIONAL 55' SPAN)						
INTERIOR SURFACES:	INTERIOR SURFACES:						
CORROSION INHIBITING MODIFIED ALKYD	CORROSION INHIBITING MODIFIED ALKYD						
OR	EXTERIOR PRIME COAT:						
EPOXY PRIMER	CORROSION INHIBITING POLYAMIDE EPOXY						
EXTERIOR PRIME COAT:	EXTERIOR SURFACES:						
ZINC RICH EPOXY POWDER	ACRYLIC POLYURETHANE						
EXTERIOR SURFACES:	ENAMEL ENAMEL						
TGIC OR URETHANE POLYESTER POWDER	PAINT COLOR:						
PAINT COLOR:	F314AN (BLACK)						
F530G (BLACK)							

MATERIAL NOTES:

- ALL PLATE MATERIAL CONSISTING OF A36 GR. 36 MAY BE SUBSTITUTED WITH A572 GR. 50 OR 55 MATERIAL.
- HANDHOLE COVER MATERIAL MAY BE SUBSTITUTED WITH 10 GAUGE MATERIAL.



A A A NO. DATE BY DESCRIPTION · REVISIONS · 3775 Adams Street Boise, ID 83714 www.achdidaho.org Ada County Highway District

ADA - X AND XI POLES

CAMERA

MOUNTING

DETAIL 3

-SEE SIGNAL ARM DATA-

HEIGHT

LUMINAIRE MOUNTING

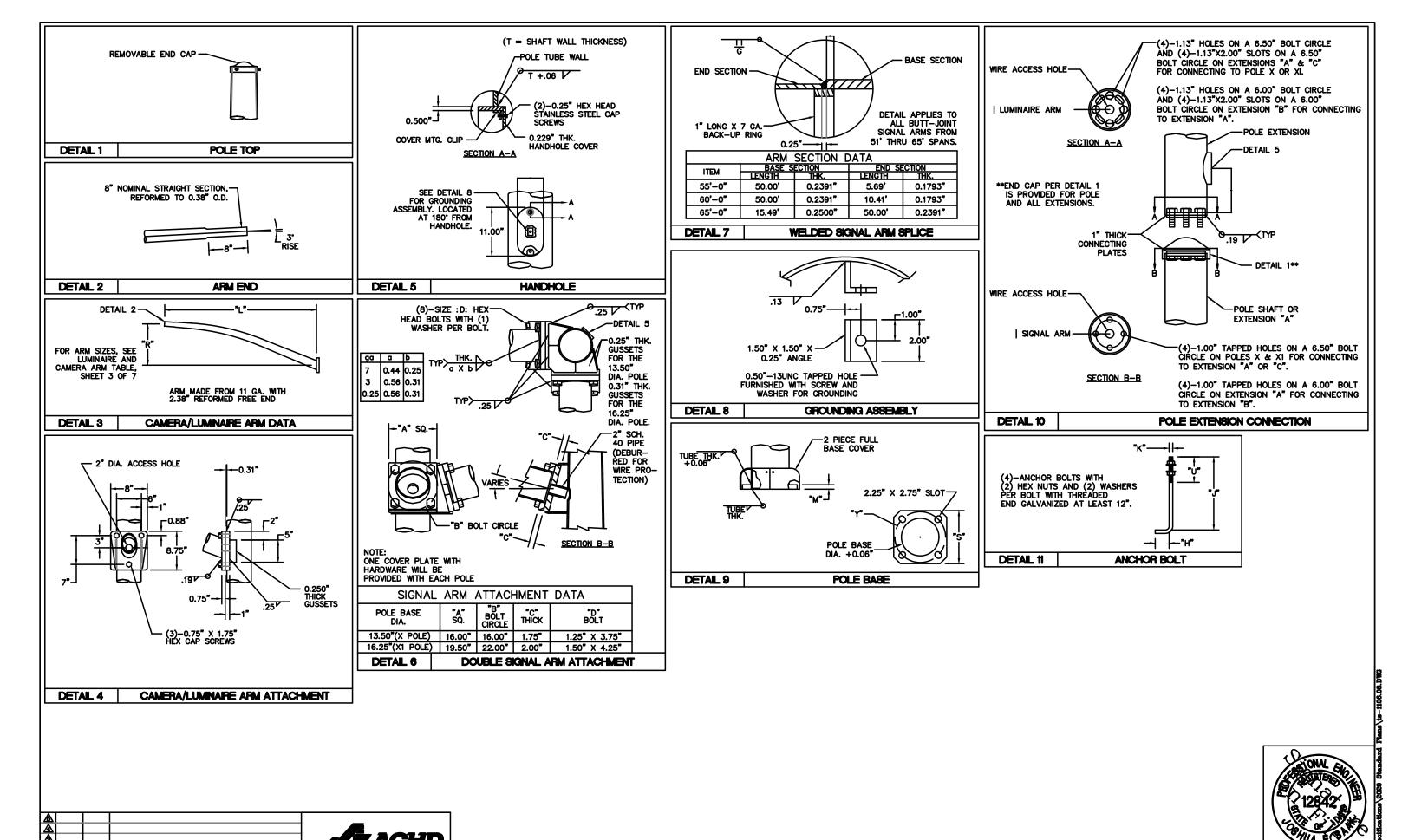
-REMOVABLE END CAP

-DETAIL 7

• SIGNATURES • Scale: NTS Drawn By: Valmont/Joshua Saak Design By: Valmont Date: 12/21/2022 File: TS-1106.07.DWG Approved By: Greg Fullerton

· SHEET TITLE · Standard Signal Structures

• STANDARD DETAIL NO. • TS-1106.07



• SIGNATURES •

Valmont/Joshua Saak

Drawn By:

Design By: Valmont

Approved By: Greg Fullerton

DESCRIPTION

NO. DATE

Scale: NTS

Date: 12/21/2022

File: TS-1106.08.DWG

Standard Signal Structure Details

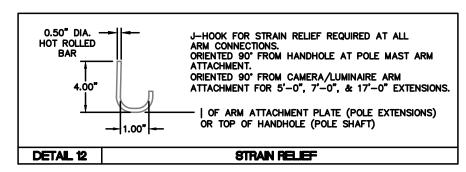
• SHEET TITLE •

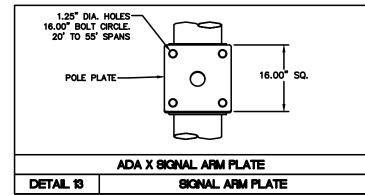
	POLE DATA															
DESIGNATION KEY POLE TUBE				POLE BASE				ANCHOR BOLT								
POLE SERIES	POLE TYPE	FIRST SIGNAL ARM SPAN	SECOND SIGNAL ARM SPAN	LENGTH (FT)	BASE DIA. (IN)	TOP DIA. (IN)	GAUGE/ THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	SLOT LENGTH (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)	MIN. YIELD (KSI)/ COLOR
ADA	x	45' 50' 55'	45' 40' 30'	18.00	13.50	10.98	0.313	19.00	18.00	2.00	2.75	2.00	84.00	6.00	12.00	55 YELLOW
ADA XI	хі	55' 60' 65'	55' 55' 40'	18.00	16.25	13.73	0.313	22.00	21.00	2.00	2.75	2.00	84.00	6.00	12.00	105 RED

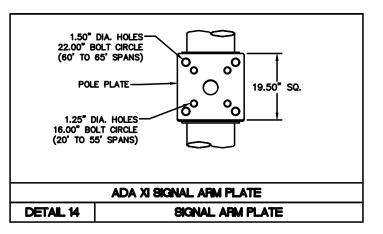
POLE EXTENSION DATA									
						CONNECTIN	IG PLATES		
LUMINAIRE MOUNTING HEIGHT	SECTION	BASE DIAMETER	TOP DIAMETER	LENGTH	GAUGE	BOTTOM BOLT CIRCLE	TOP BOLT CIRCLE		
35'-6" MIN. / 38'-6" MAX.	A	11.00"	8.62"	17'-0"	7	6.50"	6.00"		
40'-6" MIN. / 43'-6" MAX.	В	8.62"	7.92"	5'-0"	11	6.00"	NA		
25'-6" MIN. / 28'-6" MAX.	С	11.00"	10.02"	7'-0"	7	6.50"	NA		

	SIGNAL ARM DATA								
	SIGNAL ARM TUBE								
NOMINAL SPAN (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE OR THICK (IN)	RISE "T" (FT)	SIMPLEX BOLT CIRCLE (IN)	SIMPLEX BOLT DIA. (IN)			
20	7.00	4.11	7	4.00	16.00	1.25			
25	8.00	4.42	7	4.00	16.00	1.25			
30	9.00	4.73	7	4.00	16.00	1.25			
35	10.00	5.04	7	4.00	16.00	1.25			
40	10.00	4.35	7	4.00	16.00	1.25			
45	11.00	4.63	7	5.50	16.00	1.25			
50	11.00	4.00	3	5.50	16.00	1.25			
55	11.00	3.09	SEE Det. 7	5.50	16.00	1.25			
60	13.00	4.42	SEE DET. 7	5.50	22.00	1.50			
65	14.69	5.51	SEE DET. 7	5.50	22.00	1.50			

LUMINAIRE/CAMERA ARM DATA							
ARM SPAN "L" (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GA.	RISE HEIGHT "R"			
4	3.00	2.38	11	1'-0"			
6	3.29	2.38	11	1'-6"			
8	3.58	2.38	11	1'-10"			
10	3.86	2.38	11	2'-2"			
12	4.15	2.38	11	2'-6"			
15	4.58	2.38	11	3'-0"			
18	4.97	2.38	11	3'-6"			
20	5.26	2.38	11	4'-0"			

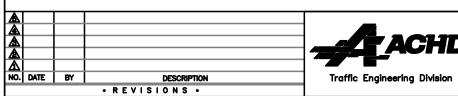






· SHEET TITLE ·

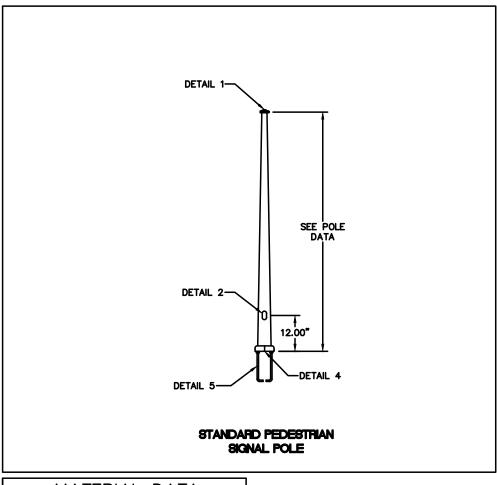
Signal Structure Data

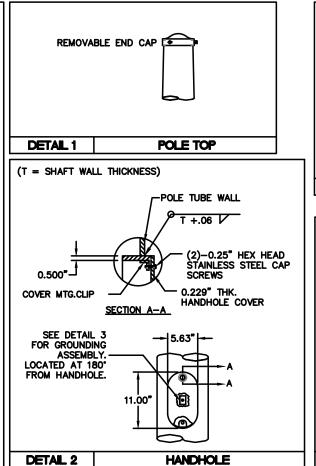


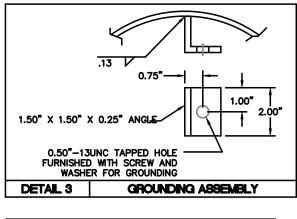
	• SIGNATURES •	
Scale: NTS	Drawn By: Valmont/Joshua Saak	
Date: 12/21/2022	Design By: Valmont	
File: TS-1106.09.DWG	Approved By: Greg Fullerton	

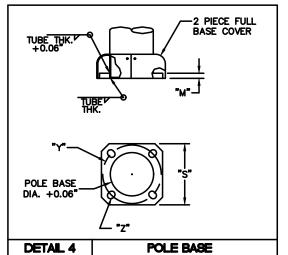
• STANDARD DETAIL NO. • TS-1106.09

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MATERIAL DATA						
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)				
TAPERED TUBES	A595 GR. A	55				
BASE PLATE	A36	36				
ANCHOR BOLTS	F1554	55				
GALVANIZING	A153					
CINICH NOTES						

FINISH NOTES

INTERIOR SURFACES: CORROSION INHIBITING MODIFIED ALKYD

OR

EPOXY PRIMER

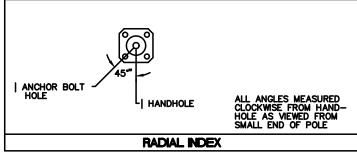
EXTERIOR PRIME COAT:
ZINC RICH EPOXY POWDER

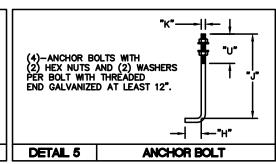
EXTERIOR SURFACES: TGIC OR URETHANE POLYESTER POWDER

PAINT COLOR: F530G (BLACK)

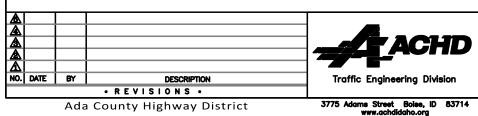
MATERIAL NOTE:

- ALL PLATE MATERIAL CONSISTING OF A36 GR. 36 MAY BE SUBSTITUTED WITH A572 GR. 50 OR 55 MATERIAL.
- HANDHOLE COVER MATERIAL MAY BE SUBSTITUTED WITH 10 GAUGE MATERIAL.



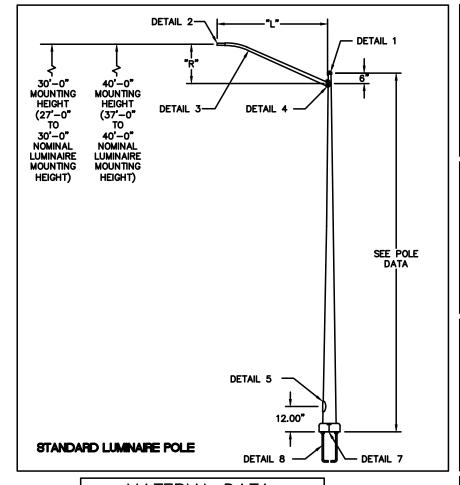


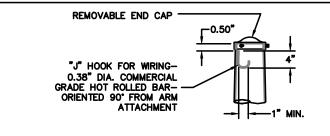
PED POLE DATA											
POLE TUBE				POLE BASE				ANCHOR BOLT			
BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THICK (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)
8.00	6.32	12.00	3	13.88	12.75	0.75	1.25	1.00	36.00	4.00	6.00



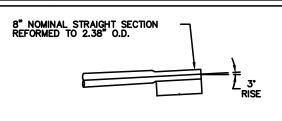
	• SIGNATURES •	· SHEET TITLE ·
icale: NTS	Drown By: Valmont/Joshua Saak	Standard Pedestrian
ate: 12/21/2022	Design By: Valmont	
ile: TS-1106.10.DWG	Approved By: Greg Fullerton	Signal Pole Data

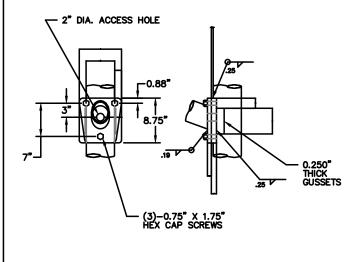
• STANDARD DETAIL NO. •











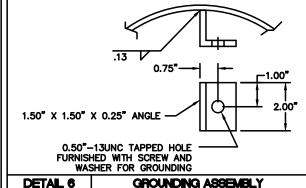
LUMINAIRE ARM ATTACHMENT

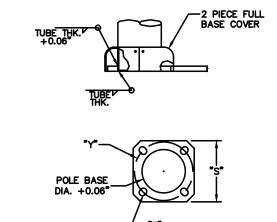
-POLE TUBE WALL

T +.06 V

SCREWS

(2)-0.25" HEX HEAD STAINLESS STEEL CAP





	∠ _{"Z"}						
DETAIL 7	POLE BASE						
(4)—ANCHOR B (2) HEX NUTS PER BOLT WITH END GALVANIZE	OLTS WITH AND (2) WASHERS I THREADED ID AT LEAST 12".						

ANCHOR BOLT

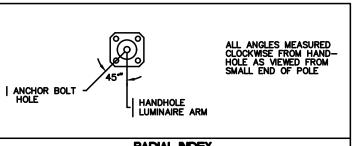
DETAIL 8

DETAIL 2

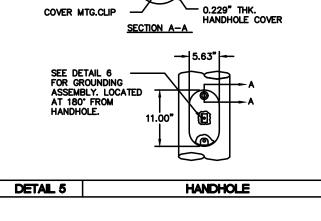
DETAIL 2-FOR ARM SIZES SEE LUMINAIRE ARM DATA

ARM END

DETAIL 3 LUMINAIRE ARM DATA



RADIAL INDEX



MATERIAL	DATA	
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
TAPERED TUBES	A595 GR. A	55
BASE PLATE	A36	36
ANCHOR BOLTS	F1554	55
NUTS	A563 GR.A	
WASHERS	F463	55
LUMINAIRE ARM TUBE	A595 GR. A	
LUMINAIRE ARM SIMPLEX	A36	36
GUSSETS	A36	36
CONNECTING BOLTS	SAE GR.5	
GALVANIZING	A153, A123	
		,

FINISH NOTES

INTERIOR SURFACES: CORROSION INHIBITING MODIFIED ALKYD

OR

EPOXY PRIMER

EXTERIOR PRIME COAT:
ZINC RICH EPOXY POWDER

EXTERIOR SURFACES:
TGIC OR URETHANE
POLYESTER POWDER

PAINT COLOR: F530G (BLACK)

LUMINAIRE ARM DATA									
"L" ARM SPAN (FT)	DIA. FIXED END (IN)	DIA. FREE END (IN)	GA.	RISE HEIGHT "R"					
4	3.00	2.38	11	1'-0"					
6	3.29	2.38	11	1'-6"					
8	3.58	2.38	11	1'-10"					
10	3.86	2.38	11	2'-2"					
12	4.15	2.38	11	2'-6"					
15	4.58	2.38	11	3'-0"					
18	4.97	2.38	11	3'-6"					
20	5.26	2.38	11	4'-0"					

	POLE DATA												
		POLE	TUBE			Р	OLE BAS	E		ANCHOR BOLT			
MOUNTING HEIGHT (FT)								"H"	THREAD LENGTH "U" (IN)				
30.00	9.80	5.95	26.50	7	13.88	12.75	1.00	1.13 X 1.69	1.00	36.00	4.00	6.00	
40.00	9.80 4.69 36.50 7 13.88 12.75 1.00 1.13 X 1.69 1.00 36.00 4.00									6.00			

MATERIAL NOTES:

ALL PLATE MATERIAL CONSISTING OF A36 GR. 36 MAY BE SUBSTITUTED WITH A572 GR. 50 OR 55 MATERIAL.

DETAIL 4

(T = SHAFT WALL THICKNESS)

COVER MTG.CLIP

HANDHOLE COVER MATERIAL MAY BE SUBSTITUTED WITH 10 GAUGE MATERIAL.

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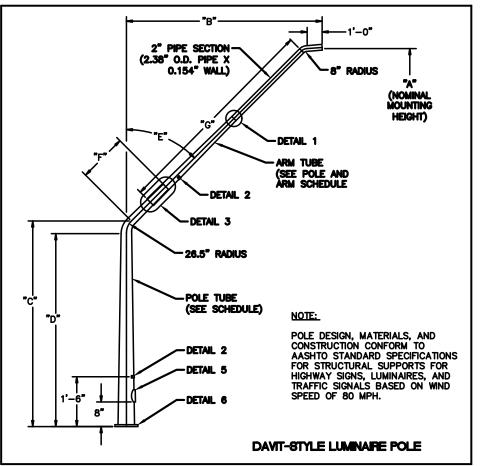
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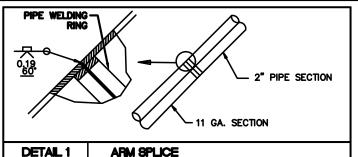
		• SIGNATURES •
Scale: NTS	Drawn By:	Valmont/Joshua Saak
Date: 12/21/2022	Design By:	Valmont
File: TS-1106.11.DWG	Approved By:	Greg Fullerton

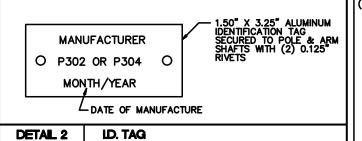
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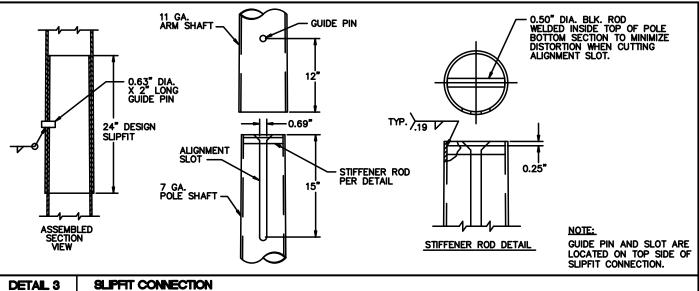


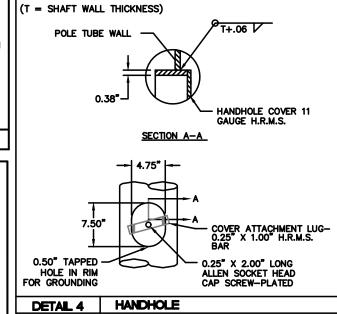
• STANDARD DETAIL NO. • TS-1106.11

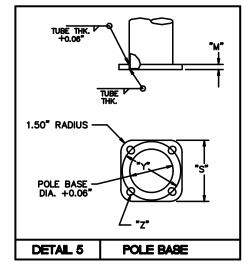








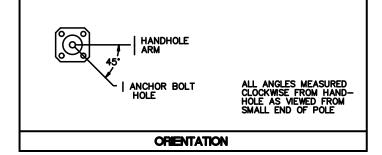




POLE AND ARM SCHEDULE

ı		TOLE THAT THAT SOMEDOLE																			
		MOUNTING	ARM SPAN	HEIGHT	START OF	DEGREE	STRAIGHT	ARM NOMINAL OVERALL STRAIGHT		POLE	TUBE			P	OLE BASE		ANCHOR BOLT (BY OTHERS)		ARM	TUBE	
	POLE TYPE	MOUNTING HEIGHT "A" (FT)	"B" (FT)	AFTER BEND "C" (FT)	BEND "D" (FT)	OF BEND "E"	LENGTH "F" (FT)	LENGTH (TUBE ARM & PIPE) "G" (FT)		TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "N" (IN)	HOLE / SLOT "Z" (IN)	BOLT DIAMETER (IN)	BASE DIA. (IN)	TOP DIA. (IN)	GAUGE OR THICK (IN)	LENGTH (FT)
	P302	30.00	13.25	19.31	17.75	44*	3.75	13.75	7.57	4.33	23.17	7	13.50	12.50	1.50	1.50 X 2.25	1.25	4.83	2.91	11	13.75
	P304	40.00	20.00	21.00	19.50	45*	3.75	24.09	7.83	4.33	25.00	7	13.50	12.50	1.50	1.50 X 2.25	1.25	4.83	2.40	11	17.36

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING.



MATERIAL NOTES

- ALL PLATE MATERIAL CONSISTING OF A36 GR. 36 MAY BE SUBSTITUTED WITH A572 GR. 50 OR 55 MATERIAL.
- 2. HANDHOLE COVER MATERIAL MAY BE SUBSTITUTED WITH 10 GAUGE MATERIAL.

MATERIAL DATA									
ASTM DESIGNATION	MIN. YIELD (KSI)								
A595 GR. A	55								
A595 GR. A	55								
	46								
A36	36								
GALVANIZING A123 & A153									
	ASTM DESIGNATION A595 GR. A A595 GR. A								

FINISH NOTES

INTERIOR SURFACES;
CORROSION INHIBITING MODIFIED ALKALOID
OR
EPOXY PRIMER

EXTERIOR PRIME COAT: ZINC RICH EPOXY POWDER

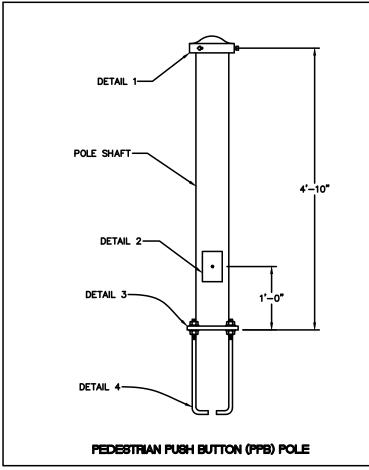
EXTERIOR SURFACES:
TGIC OR URETHANE POLYESTER POWDER

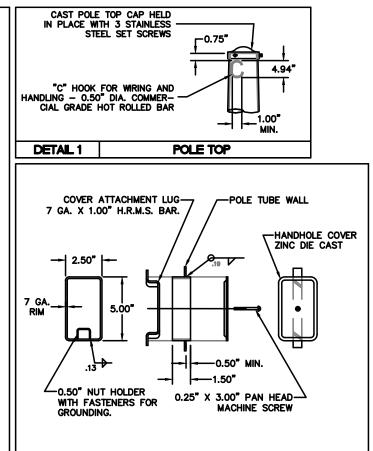
PAINT COLOR: F530G (BLACK) PRIMER

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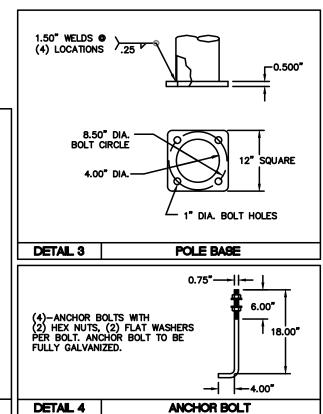
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NO.	DATE	BY	DESCRIPTION	Traffic Engineering Division
			· REVISIONS ·	

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Scale:	nts	Drawn By:	Valmont/Joshua Saak	
Date:	12/21/2022	Design By:	Valmont	
File:	TS-1106.12.DWG	Approved By:	Greg Fullerton	





2.5" X 5" HANDHOLE



· SHEET TITLE ·

Standard Pedestrian Push **Button Pole Data**

MATERIAL DATA				
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)		
POLE SHAFT 4" SCH. 40	A53 GRADE B	36		
BASEPLATE	A36	36		
ANCHOR BOLTS	F1554 GR. 36	36		
GALVANIZING - STRUCTURE	A123			

FINISH NOTES

INTERIOR SURFACES; CORROSION INHIBITING MODIFIED ALKYD

OR

EPOXY PRIMER

EXTERIOR PRIME COAT:
ZINC RICH EPOXY POWDER

EXTERIOR SURFACES: TGIC OR URETHANE POLYESTER POWDER

PAINT COLOR: F530G (BLACK)

MATERIAL NOTES:

DETAIL 2

- 1. ALL PLATE MATERIAL CONSISTING OF A36 GR. 36 MAY BE SUBSTITUTED WITH A572 GR. 50 OR 55 MATERIAL.
- HANDHOLE COVER MATERIAL MAY BE SUBSTITUTED WITH 10 GAUGE MATERIAL.

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NO. DATE	BY	DESCRIPTION	Traffic Engineering Division
		• REVISIONS •	
	Ada	a County Highway District	3775 Adams Street Boise, ID 83714

	• SIGNATURES •	
Scale: NTS	Drown By: Valmont/Joshua Saak	
Date: 12/21/2022	Design By: Valmont	
File: TS-1106.13.DWG	Approved By: Greg Fullerton	

• STANDARD DETAIL NO. • TS-1106.13

Sheet 13 of 13

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