TABLE OF CONTENTS

CITY OF SPOKANE STANDARD PLANS – SECTION J

B-101B = Revised Standard Plan

Back to Main TOC

***W-108A = New Standard Plan

#A-1 = Renumbered Standard Plan

Plan No.	<u>Plan Title</u>	Current Plan Date
J-100	Traffic Symbols	11/18
J-100A	Basic 8 Phase Intersection Phasing & Equipment Layout	2/15
J-100B	Signal Head & Pedestrian Display Wiring	11/18
J-101	Signal Mountings, Post Top - Types A1, A2, F1, F2	4/04
J-101B	Signal Mountings, Post Top - Types A(3)2-F2, A(3)1-F2, A(3)	1-F1, A(3)2-F1 4/15
J-101C	Signal Mountings, Post Top - Types A(5)1-A(3)1-F2, A(5)1-F2	, A(5)1-A(3)1-F1,
	<u>A(5)1-F1, A(3)1-A(5)1-F1</u>	
J-101D	Signal Mountings, Post Top - Types A(4)1-A(3)1-F2, A(4)1-F2	
	<u>A(4)1-F1</u>	
J-102	Bracket Signal Mountings – Types B(3)2-B(3)1 & P2-P1	
J-102A	Bracket Signal Mountings – Types B(4,3)2	
J-102B	Bracket Signal Mountings – Types B(5)1-B(3)1 & B(5)1	
J-103A	Signal Mount, Mast Arm – Type D(3)	
J-103B	Signal Mount, Mast Arm – Type D(4)	
J-103C	Signal Mount, Mast Arm – Type D(5)	
J-103D	Signal Mount, Mast Arm – Type D(3B)	
J-104	Signal Pole and Foundation – Type 1	
J-105	Signal Pole / Luminaire Mast Arm and Foundation – Type 4	10/20
J-105A	Signal Pole / Single Mast Arm and Foundation – Type 2	
J-105B	Signal Pole / Single Mast Arm / Luminaire Arm & Foundation –	
J-105C	<u>Luminaire Pole & Foundation</u>	
J-105D	Pedestrian Hybrid Beacon Single Mast Arm / Luminaire Arm &	
	<u>Type 3</u>	
J-105E	Terminal Cabinet	
J-106	Foundation Concrete Controller Base	
J-106A	Anchor Bolt Location Type 'M' Cabinet	
J-106B	Anchor Bolt Location Type 'P' Cabinet	
J-107	Vehicle Induction Loops Types 1, 2, 3, and 5	11/18
J-107A	Vehicle Induction Loop Wiring Types 1, 2, 3, and 5	
J-107B	Loop Lead-In Splicing Re-Enterable Closure	
J-107C	Microloop Probe Detector Loop Type 4	
J-107D	Vehicle Induction Loop Labeling.	
J-108	Pedestrian Push Button Pole, Foundation, APS, & Silent Push-	
J-109	Typical Cabinet Cable Routing and Cable Ties	
J-110	Aerial Electrical Service	
J-111	Illumination / Machine Vision Diagram – Typical	
J-111A	Grounding Wire Diagram – Typical	

TABLE OF CONTENTS

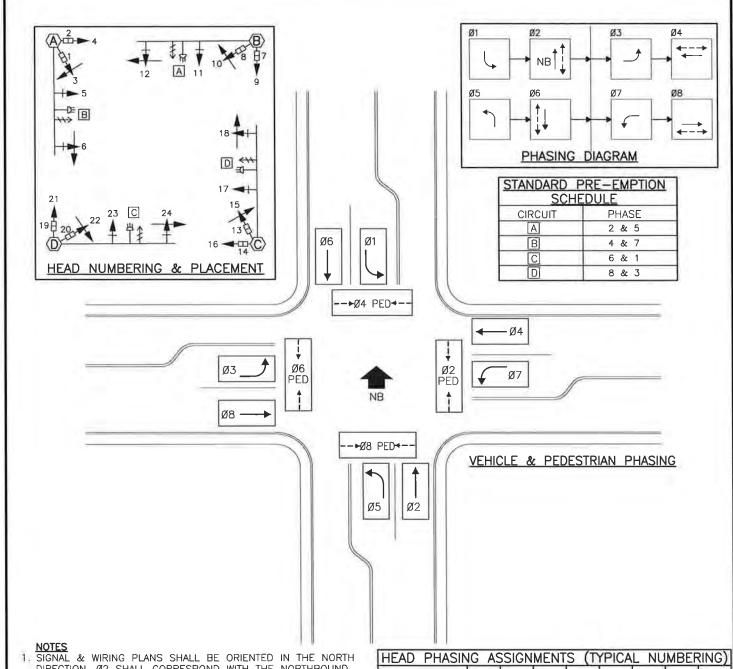
CITY OF SPOKANE STANDARD PLANS – SECTION J continued

B-101B = Revised Standard Plan ***W-108A = New Standard Plan

#A-1 = Renumbered Standard Plan

<u>Plan No.</u>	<u>Plan Title</u>	Current Plan Date
J-111B	Illumination Diagram – Typical	4/04
J-112	Junction Box Details (3 Sheets)	
J-112A	Pull Box Installation	3/15
J-112B	Cable Vault Installation	3/15
J-112C	Cable Racking for Pull Box & Cable Vault Installation	1/12
J-112D	Maxcell Anchored In Pull Box or Cable Vault	11/18
J-113	Down Guy.	
J-114	Sidewalk Back Guy	5/07
J-115	Aerial Splice Closure	5/07
J-116	Corner Deadend	5/07
J-117	Deadend and Underground Entrance	5/07
J-118	Suspension Clamp – Figure 8 System	5/07
J-119	Underground Electrical Service	11/18
J-119A	Downtown Underground Electrical Service Cabinet	
J-119B	Downtown Typical Service Cabinet Wiring	11/18
J-120	Signal Pole Base Cover (If Needed)	
J-121	Combination Pre-empt Detector & Indicator Mounting Detail	
J-200	Decorative Street Lighting Districts	11/18
J-201	P1A Luminaire Pole	
J-202	P1B Luminaire Pole	8/19
J-203	P2B Luminaire Pole	8/19
J-204	P1C Luminaire Pole	8/19
J-205	P2C Luminaire Pole	
J-206	S2B Luminaire Pole	8/19
J-207	S2C Luminaire Pole	8/19
J-208	Luminaire Pole Details	
J-210	Street Lighting Location	
J-211	"P" Series Luminaire Foundation	
**J-211A	"P" Series Luminaire Foundation Shallow	
J-212	"S" Series Luminaire Foundation	
**J-212A	"S" Series Luminaire Foundation Shallow	9/20
J-213	Decorative Tree Lighting	
J-300	School 20 When Flashing Solar Power	
J-301	Speed Sign – Solar Power	
J-301A	RRFB / Speed Sign – Arial Power	
J-302	Rectangular Rapid – Flashing Beacon (RRFB) Solar Power	11/18

TRAFFIC SYMBOLS SYMBOL **DESCRIPTION SYMBOL** SYMBOL **DESCRIPTION** SYMBOL **PROPOSED EXISTING PROPOSED EXISTING POLES DETECTORS** DETECTOR LOOP TYPE I SIGNAL POLE TYPE 1 DETECTOR LOOP TYPE 2 SIGNAL POLE TYPE 2 DETECTOR LOOP TYPE 3 DETECTOR LOOP TYPE 4 (MICRO-LOOPS) SIGNAL POLE TYPE 3 DETECTOR LOOP TYPE 5 RADAR VEHICLE DETECTOR SIGNAL POLE TYPE 4 C VIDEO DETECTION CAMERA CCTV (CLOSED CIRCUIT TELEVSION CAMERA) \Box BOXES/VAULT & CONTROLLER SUSPENDED SIGNALS \bowtie JUNCTION BOX TYPE 1 MAST ARM SIGNAL WITH TYPE 2 GREEN LEFT TURN ARROW TYPE 3 3 8 TYPE 8 SIGNAL BASE & STANDARD \bigcirc ₪ **(M)** TRAFFIC MONUMENT PEDESTRIAN PUSH BUTTON CABLE VAULT LUMINAIRE FLASHING WARNING SYSTEM PB PB **PULL BOX** SIGNAL HEADS TRAFFIC SIGNAL \bowtie \sim CONTROLLER CABINET TRAFFIC SIGNAL HEAD W/OUT BACKPLATE SERVICE CABINET \mathbf{H} TRAFFIC SIGNAL HEAD W/ BACKPLATE $+\triangleright$ \mathbb{A} VMS CONTROL CABINET TRAFFIC SIGNAL HEAD W/ OUT BACKPLATE AND W/ LOUVERS -∰ **EMERGENCY VEHICLE** INDICATOR LIGHTS TRAFFIC SIGNAL HEAD W/ BACKPLATE & LOUVERS **+#** Ŧ EVP GPS SENSOR PEDESTRIAN SIGNAL $-\Box$ Ф 一 INDICATOR LIGHTS HEAD **<**₩ EVP OPTICAL SENSOR APPROVED BY ADOPTED: 02/1986 11/2018 REVISED: TRAFFIC SYMBOLS 02/2015 SUPERSEDES: _ ENGINEERING OPERATIONS MANAGER KYLE TWOHIG CHECKED BY: GTO 8 STANDARD ENGINEERING SERVICES SCALE: NTS PLAN No. CITY OF SPOKANE, WASHINGTON J-100 DWG/REV. BY: MDH/JHM CITY ENGINEER DANIEL ALBERT BULLER, P.E.



- 1. SIGNAL & WIRING PLANS SHALL BE ORIENTED IN THE NORTH DIRECTION. Ø2 SHALL CORRESPOND WITH THE NORTHBOUND TRAFFIC OR CLOSEST TRAFFIC IN THE NORTHBOUND DIRECTION.
- 2. SHEET SCALE FOR SIGNAL & WIRING PLAN IS 1"=20'.
- 3. LETTER LABELS FOR SIGNAL STANDARDS SHALL START WITH (A) IN THE NORTHWEST CORNER & CONTINUES IN THE CLOCKWISE DIRECTION.
- 4. LETTER LABELS FOR PRE-EMPTIONS SHALL START WITH "A" FOR Ø2 & Ø5 & CONTINUE IN THE COUNTER-CLOCKWISE DIRECTION.
- 5. LABELS FOR HEADS SHALL START WITH "1" WITH STANDARD (A) WITH PED. HEADS, THEN SIGNAL HEADS ON VERTICAL POLE, & CONTINUES WITH HEAD(S) ON MAST ARM CLOSEST TO POLE.

HEAD PHASIN	IG AS	SIGN	MENT	S (T	YPICA	L NU	MBEF	RING)
	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
PHASE	SB LT	NB	EB LT	WB	NB LT	SB	WB LT	EB
	TURN	THRU	TURN	THRU	TURN	THRU	TURN	THRU
12" VEHICLE	-	9,11	1	4,5	-	22,23	1	16,17
12" VEHICLE LEFT TURN INDICATOR	15,24	1	10,18	1	3,12	-	6,21	
PEDESTRIAN COUNTDOWN	-	7,13	-	2,8	-	1,20	1	14,19

APPROVE	ED BY
1/1	
ENGINEERING DEFRATIONS	KYLE TWOHIG
PRINCIPAL ENGINEER, CONST.	KENNETH M. BROWN, P.E.

ADOPTED:	2/2015
REVISED:	
SUPERSEDES: _	
CHECKED BY: _	GTO
SCALE;	NTS
DWG/REV. BY:_	MDH

BASIC 8 PHASE INTERSECTION PHASING & EQUIPMENT LAYOUT

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. J-100A

	IGN	AL	M	OU	NTIN	1G	B	RAC	KET	DES	SIGN	A	TIOI	1
TOP OF POLE	# OF SECTIONS	# OF VEHICLE HEADS		TOP OF POLE	# of Ped Displays		BACK OF POLE MOUNTED	# OF SECTIONS	# OF VEHICLE HEADS	POLE MOUNTED	# of PED DISPLAYS	200	MAST ARM MOUNTED	# OF SECTIONS
Α	(X)	X	Ī	F	X	I	В	(X)	X	Р	(X)	I	D	(X)

EXAMPLE A(4)1-A(3)1, F2

-TOP OF POST MOUNTED -ONE 4 SECTION HEAD -ONE 3 SECTION HEAD -TWO PED DISPLAYS

	SIGNAL HEAD WIRING							
CONDUCTOR NO.	INSULATION COLOR	#14-5 COND. FOR 3 SECTION HEAD D(3)-A(3)-B(3)	#14-7 COND. FOR 4 SECTION HEAD D(4)-A(4)-B(4)	#14-7 COND. FOR 5 SECTION HEAD D(5)-A(5)-B(5)	#14-10 COND. FOR A(3,4)2-B(3,4)2 A(3)2-B(3)2 HEADS			
1	BLACK	SPARE	FLASHING YELLOW	YELLOW ARROW	FLASHING YELLOW/SPARE			
2	WHITE	COMMON-AC	COMMON-AC	COMMON-AC	COMMON-AC			
3	RED	RED	RED	RED	RED PH 2 OR 6			
4	GREEN	GREEN	GREEN ARROW	GREEN	GREEN PH 2 OR 6			
5	ORANGE	YELLOW	YELLOW	YELLOW	YELLOW PH 2 OR 6			
6	BLUE		GREEN ARROW/SPARE	GREEN ARROW	ARROW/SPARE			
7	WHITE/BLACK*		SPARE	SPARE	SPARE			
8	RED/BLACK*				RED PH 4 OR 8			
9	GREEN/BLACK*				GREEN PH 4 OR 8			
10	ORANGE/BLACK*	_			YELLOW PH 4 OR 8			
*TRACER C	OLOR	-	-		-			

SIGNAL	POLE PEDES	TRIAN DISPLAY &	BUTTON WIRING			
CONDUCTOR NO.	INSULATION COLOR	#14–5 COND. 1 PEDESTRIAN HEAD DISPLAY	#14—10 COND. 2 PEDESTRIAN HEAD DISPLAY			
1	BLACK	SPARE	SPARE			
2	WHITE	COMMON-AC	COMMON-AC			
3	RED	DON'T WALK	DON'T WALK PH 2 OR 6			
4	GREEN	WALK	WALK PH 2 OR 6			
5	ORANGE		PUSH BUTTON PH 2 OR 6			
6	BLUE	5	SPARE			
7	WHITE/BLACK*		COMMON-PUSH BUTTON			
8	RED/BLACK*		DON'T WALK PH 4 OR 8			
9	GREEN/BLACK*		WALK PH 4 OR 8			
10	ORANGE/BLACK*		PUSH BUTTON PH 4 OR 8			
*TRACER (*TRACER COLOR					

APPROVED BY

ENGINEERING OPERATIONS MANAGER KYLE TWOHIG

CITY ENGINEER DANIEL ALBERT BULLER, P.E.

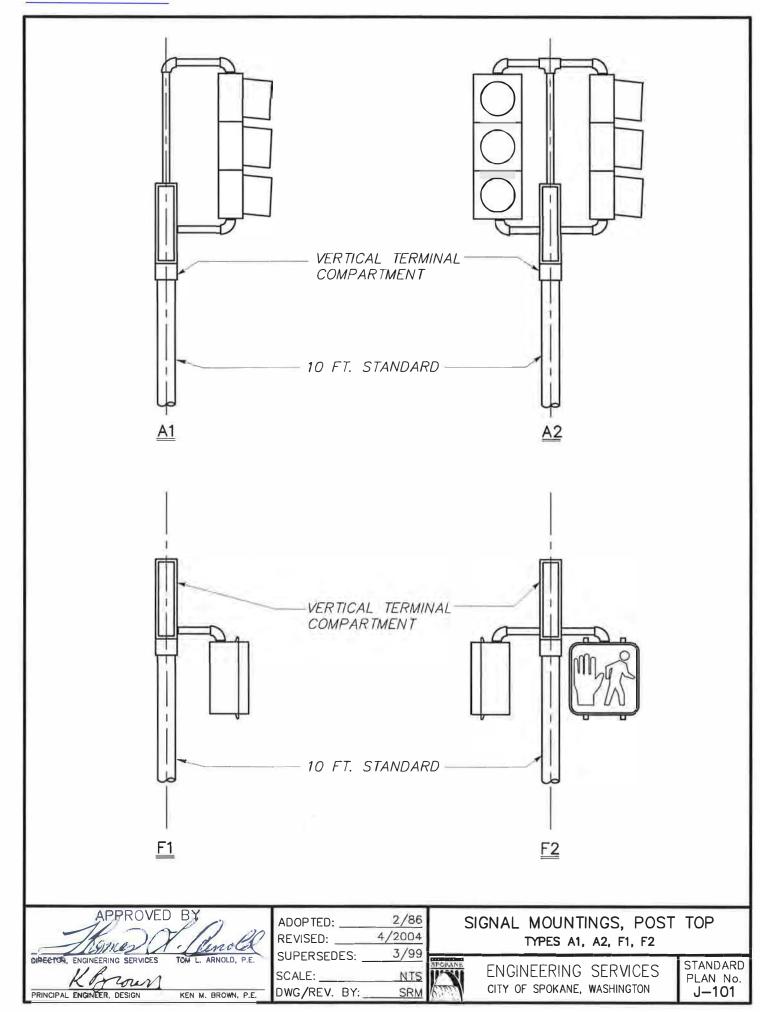
ADOPTED: 3/2015
REVISED: 11/2018
SUPERSEDES: 3/2015
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: MDH

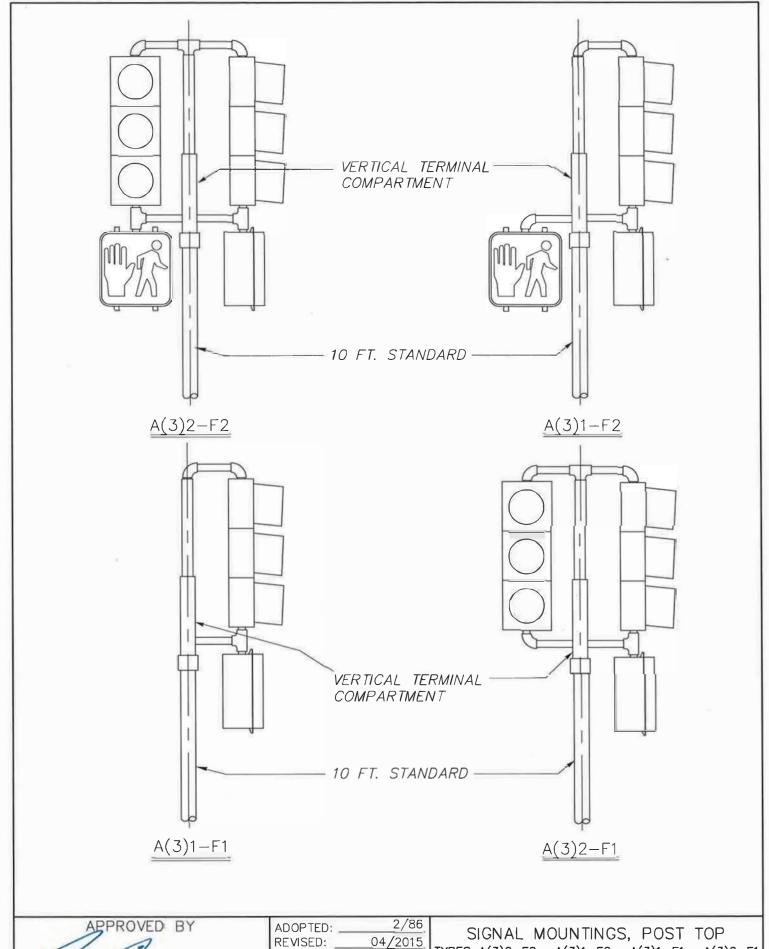
SIGNAL HEAD & PEDESTRIAN DISPLAY WIRING



ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. J-100B





ADOPTED:
REVISED:
SUPERSEDES:
CHECKED BY:
PRINCIPAL ENGINEEN, CONST. KENNETH M. BROWN, P.E.

ADOPTED:
REVISED:
SUPERSEDES:
CHECKED BY:
SCALE:
DWG/REV. BY:

ADOPTED: 2/86
REVISED: 04/2015
SUPERSEDES: 04/2004
CHECKED BY: GTQ
SCALE: N TS

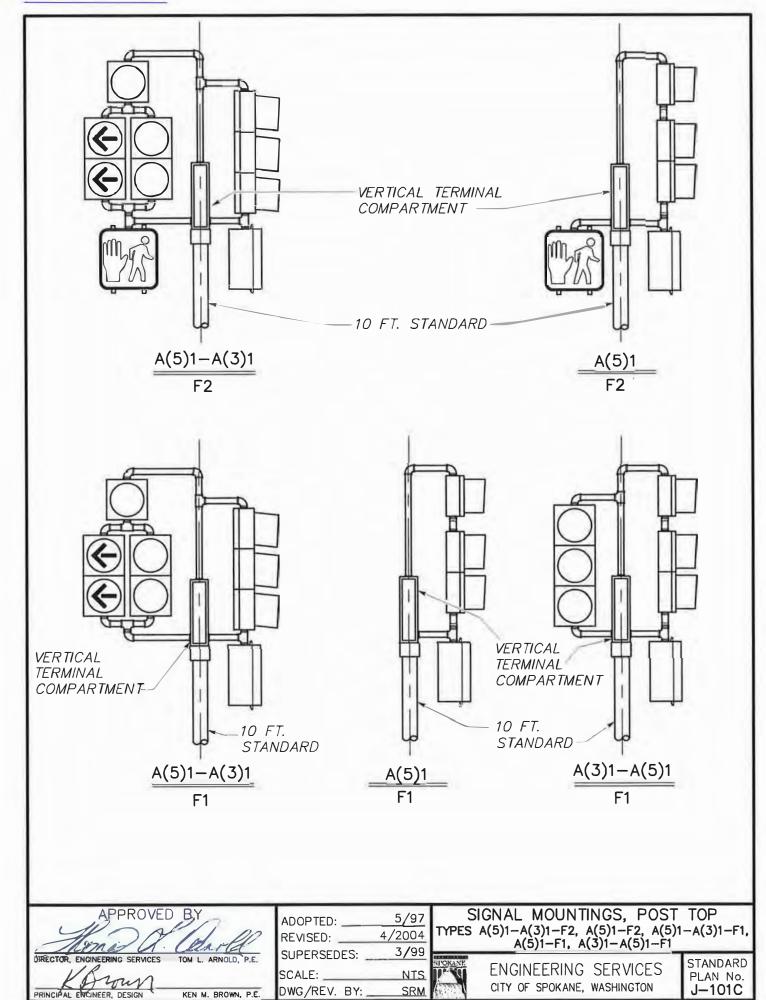
TYPES A(3)2-F2 , A(3)1-F2 , A(3)1-F1 , A(3)2-F1

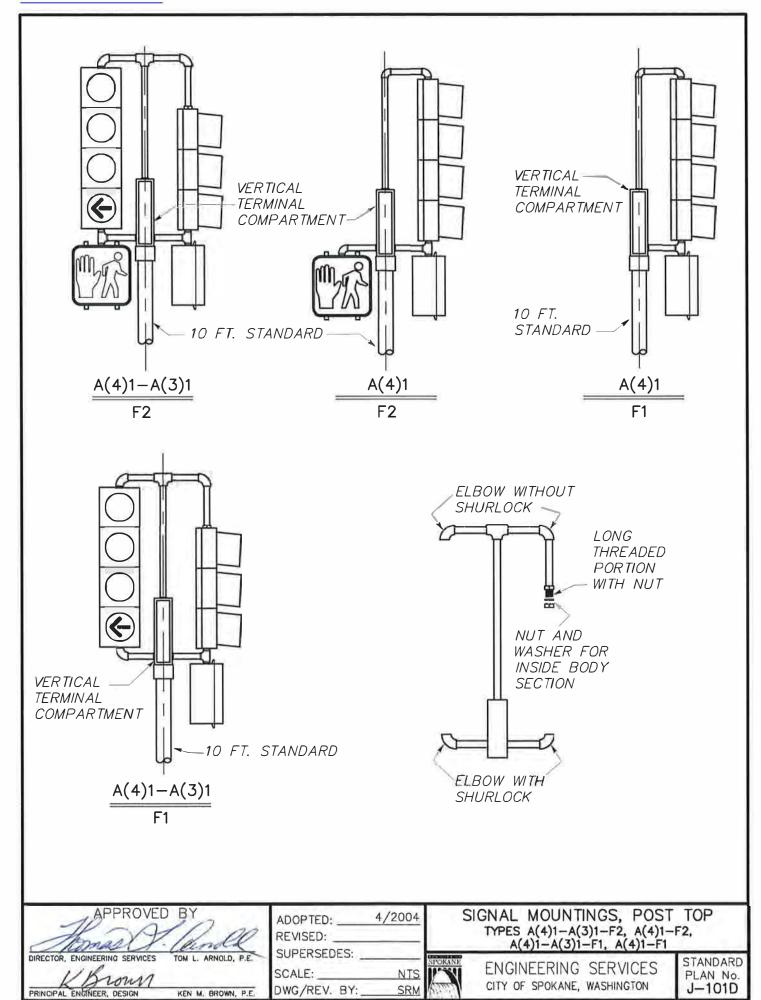
ENGIN CITY OF

GOM

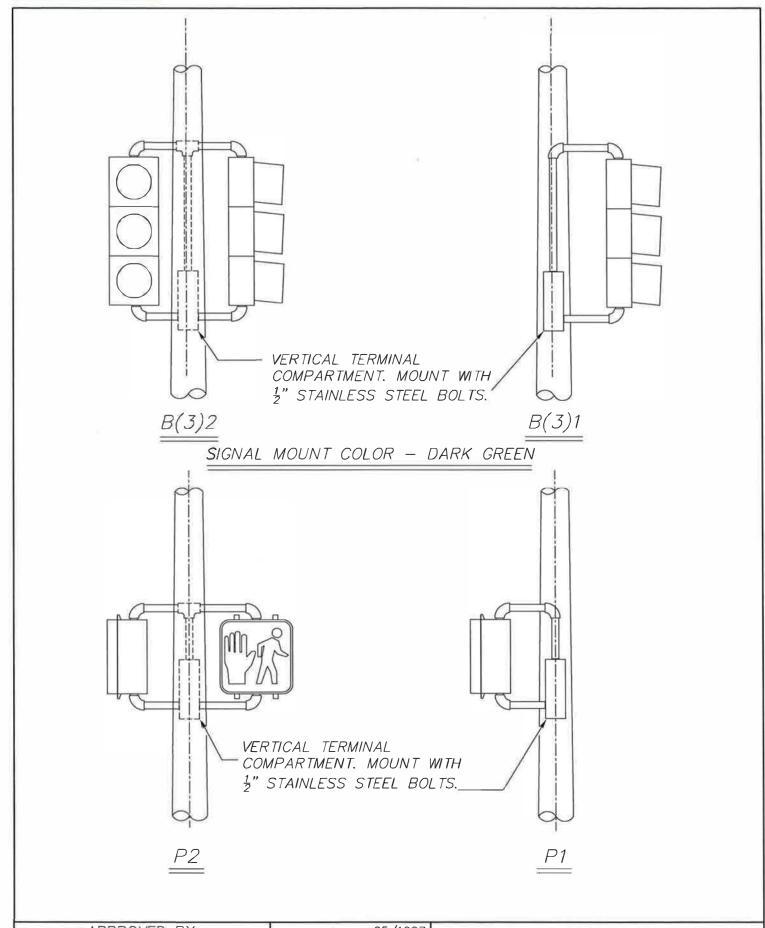
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. J-101B





KEN M. BROWN, P.E.



APPROVED BY

ENGINEERING OPERATIONS KYLE TWOHIG

MANAGER

PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.

ADOPTED: 05/1997
REVISED: 04/2015
SUPERSEDES: 05/2007
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: GOM

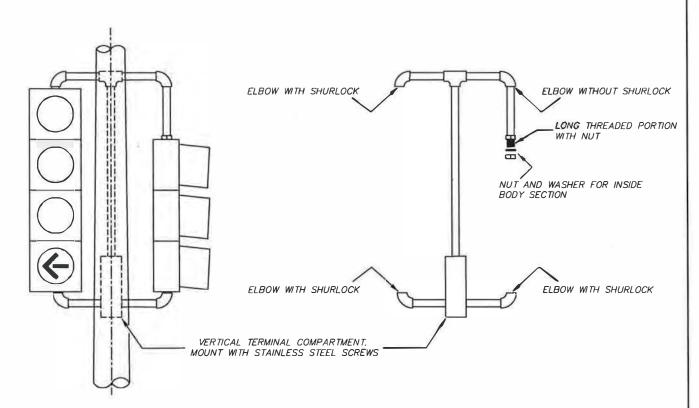
BRACKET SIGNAL MOUNTINGS TYPES B(3)2-B(3)1 & P2-P1



ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. J-102

SIGNAL MOUNT COLOR - DARK GREEN



B(4,3)2

APPROVED BY

KYLE TWOHIG

MANAGER

KENNETH M. BROWN, P.E.

PRINCIPAL ENGNEER, CONST.

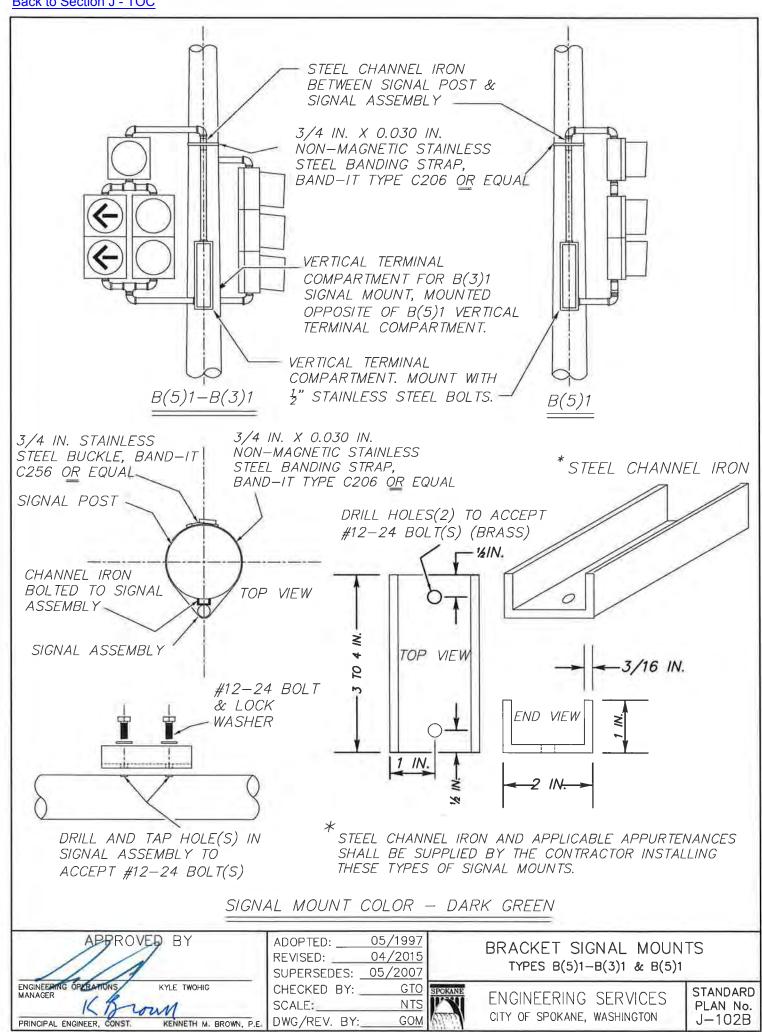
ADOPTED: 04/2015
REVISED:
SUPERSEDES:
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: GOM

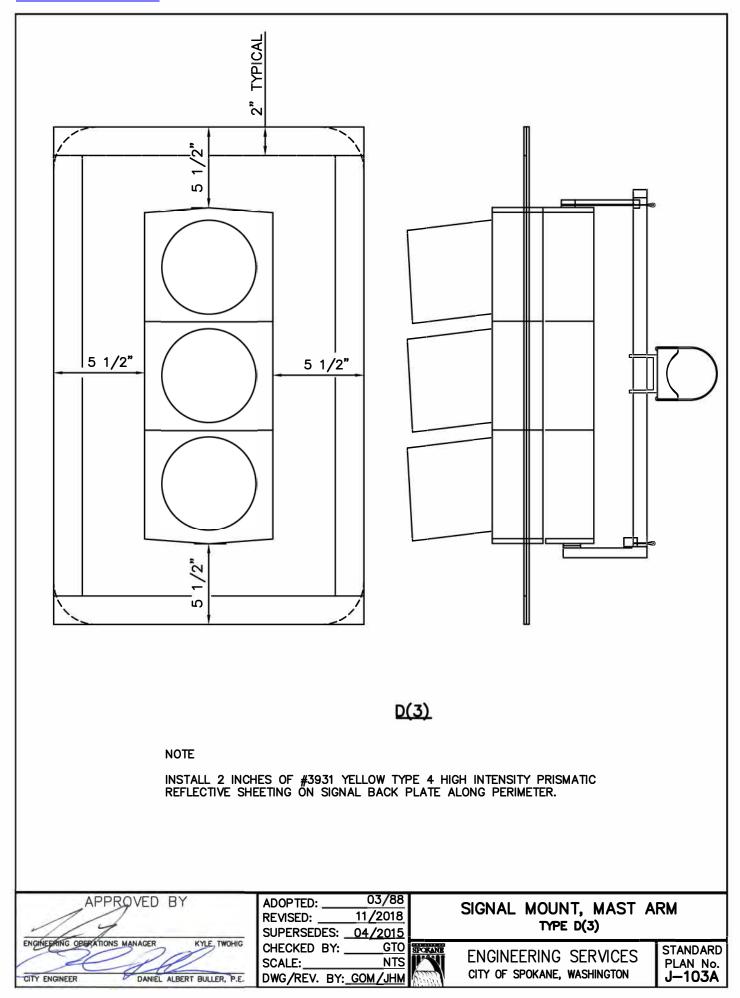
BRACKET SIGNAL MOUNTINGS
TYPE B(4,3)2

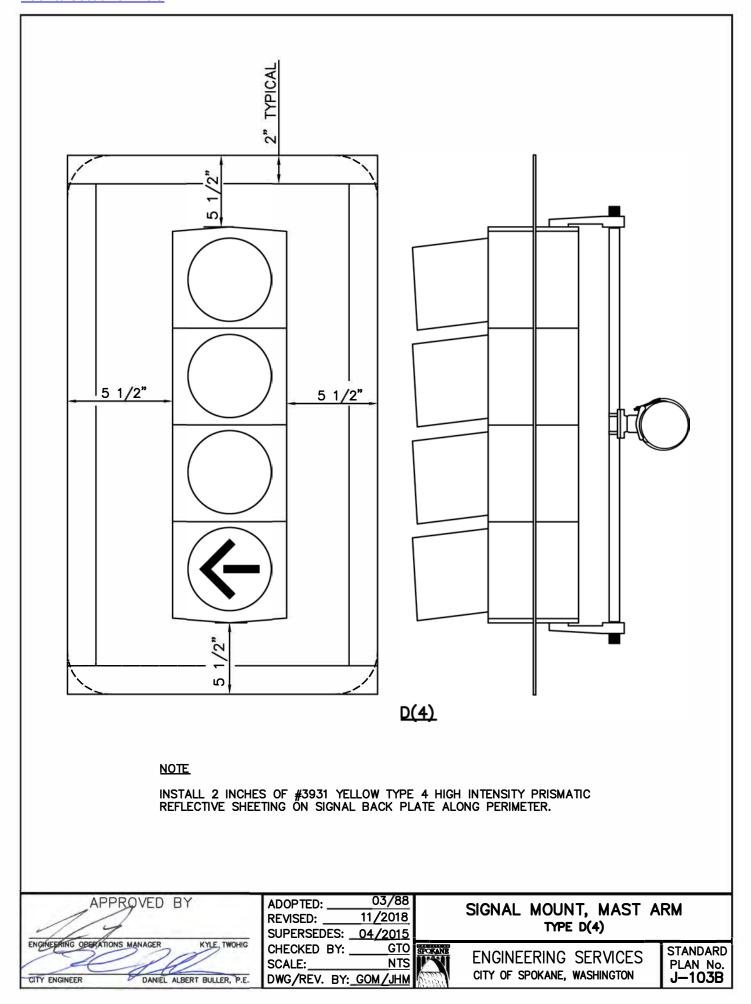


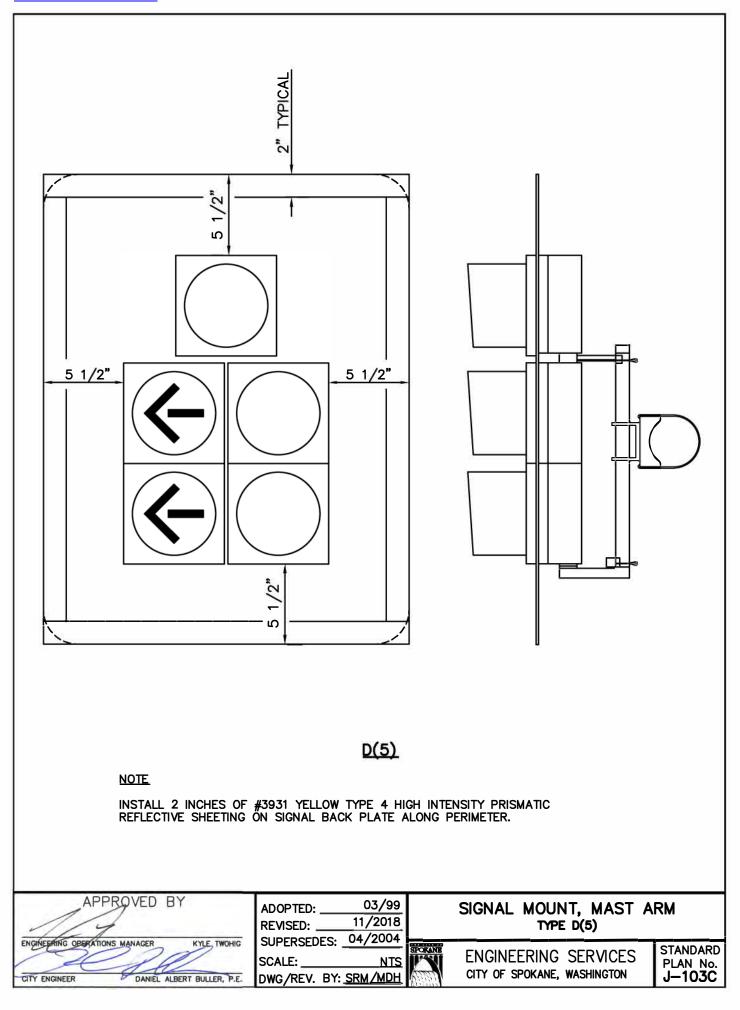
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

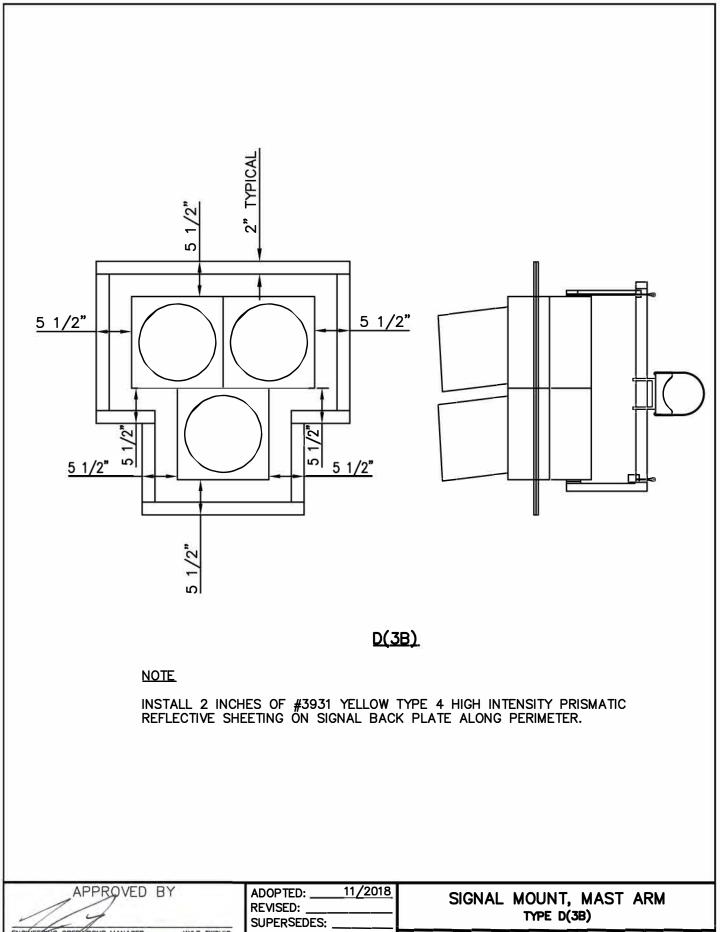
STANDARD PLAN No. J-102A



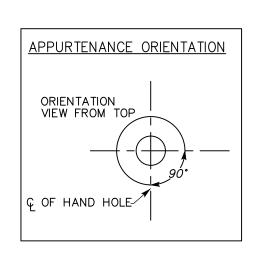








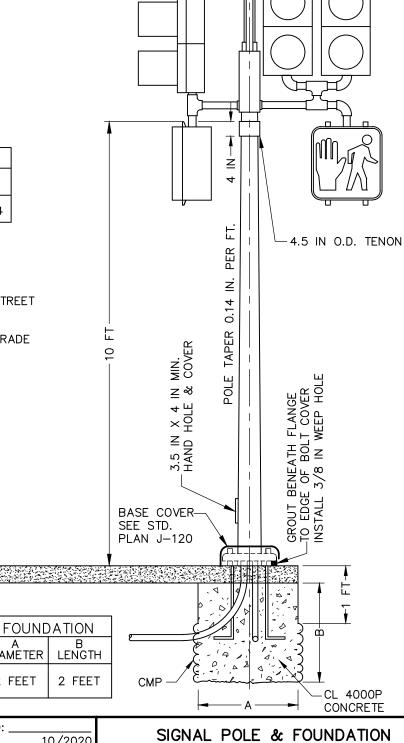
APPROVED BY	REVISED: SUPERSEDES:	SIGNAL MOUNT, MAST ARM TYPE D(3B)
CITY ENGINEER DANIEL ALBERT BULLER, P.E.	CHECKED BY: GTO SCALE: NTS DWG/REV. BY: MDH	ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON STANDARD PLAN No. J—103D



VERTICAL POLE BASE						
BOLT CIRCLE	BOLT SIZE	BOLT TYPE				
8½ INCHES	¾ INCHES	ASTM-F1554				

NOTES

- 1. CMP SHALL BE LEFT EMPTY & HIGH UNTIL STREET CURB IS INSTALLED.
- 2. CMP SHALL BE CUT OFF BELOW SIDEWALK GRADE PRIOR TO FOUNDATION POUR.
- 3. THE TOP 1 FT. SHALL BE POURED WITH A STRIPPABLE CARDBOARD TYPE FORM.





ADOPTED: _ 10/2020 REVISED: SUPERSEDES: 01/2017 **GTO** CHECKED BY: NTS SCALE: DWG/REV. BY: MDH/MLD

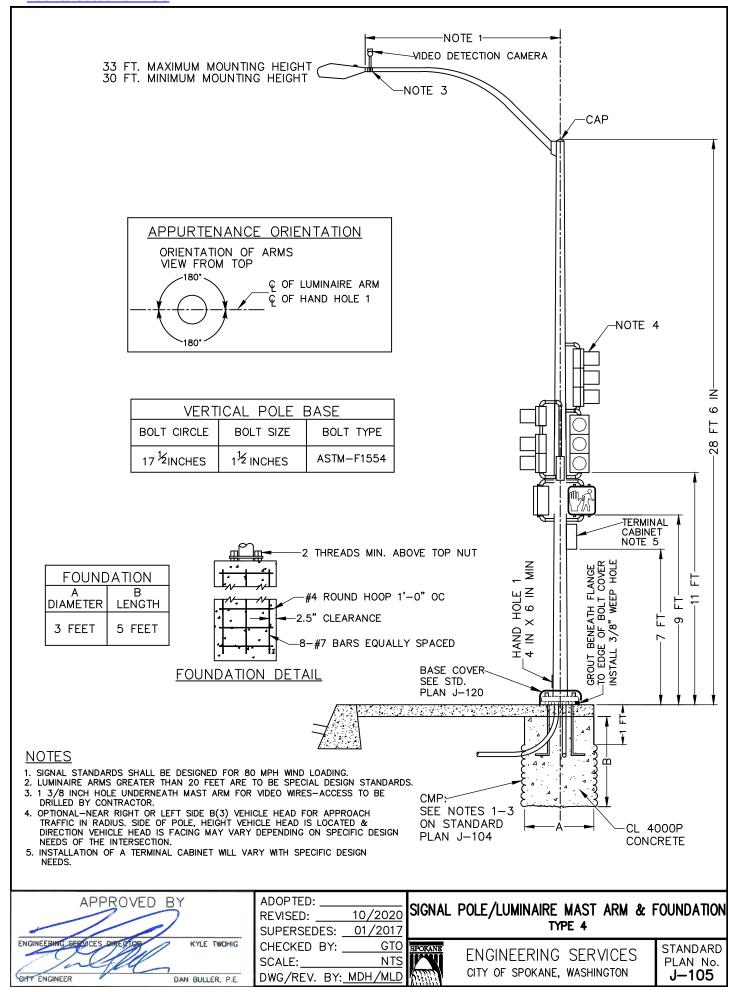
A DIAMETER

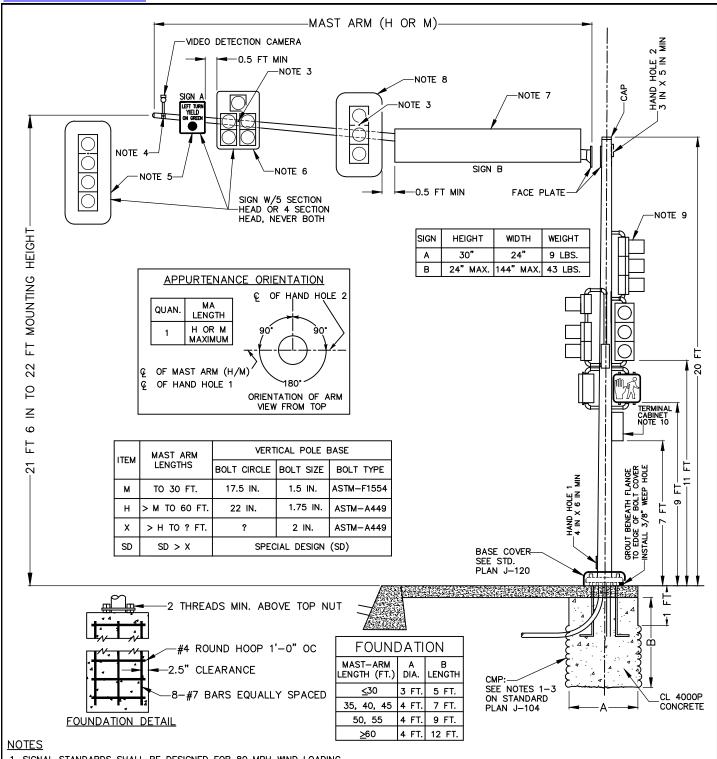
2 FEET

TYPE 1

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. J-104





- 1. SIGNAL STANDARDS SHALL BE DESIGNED FOR 80 MPH WIND LOADING.
- 2. WHEN MACHINE VISION REQUIRES HIGHER ELEVATIONS, SEE TYPE 3 SIGNAL POLE/SINGLE MAST ARM & FOUNDATION. USE WITH OR WITHOUT LUMINAIRE.
- 3. 1 3/8 INCH HOLE ON SIDE OF MAST ARM FOR SIGNAL WIRE—ACCESS TO BE DRILLED BY CONTRACTOR.
 1 3/8 INCH HOLE UNDERNEATH MAST ARM FOR VIDEO WIRES—ACCESS TO BE DRILLED BY CONTRACTOR.
 MOUNT SIGN OR SIGNAL HEAD CENTERED OVER TURN LANE.
- 6. MOUNT SIGNAL HEAD OVER TURN POCKET LANE LINE.

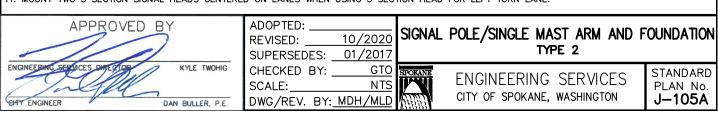
- MOUNT SIGN CENTERED OVER CURB LINE.

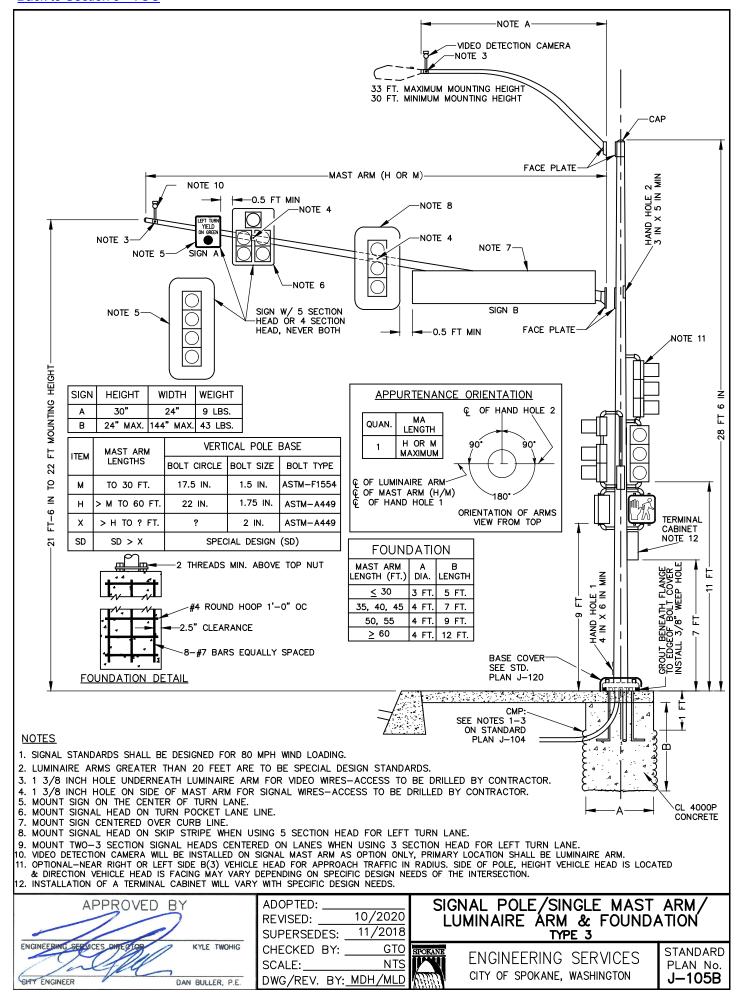
 MOUNT SIGN CENTERED OVER CURB LINE.

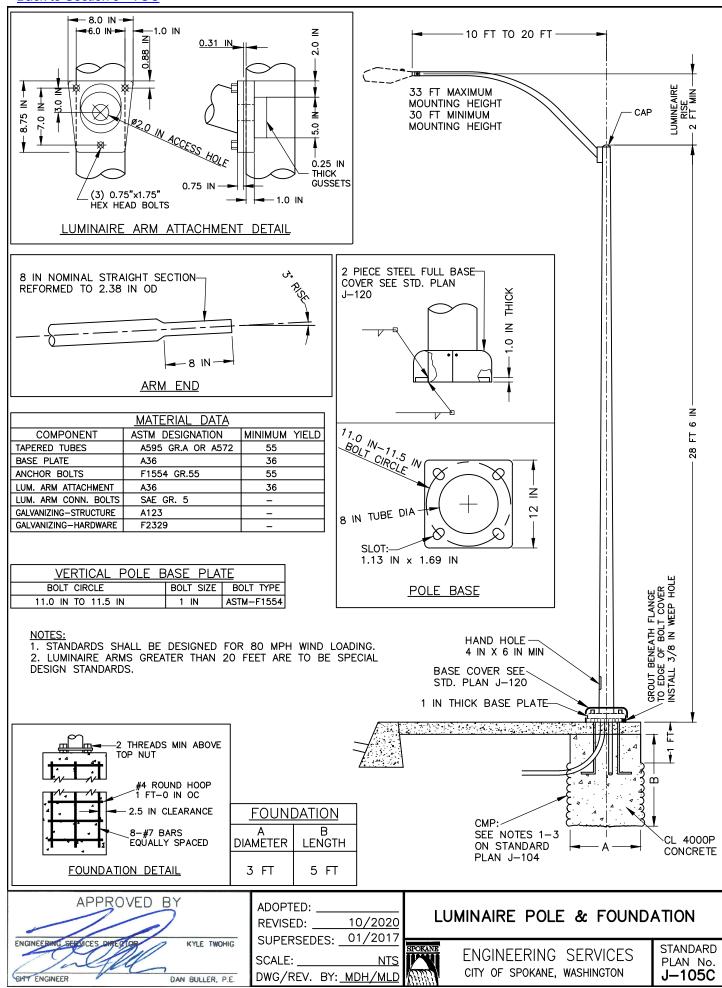
 MOUNT SIGNAL HEAD ON SKIP STRIPE WHEN USING 5 SECTION HEAD FOR LEFT TURN LANE.

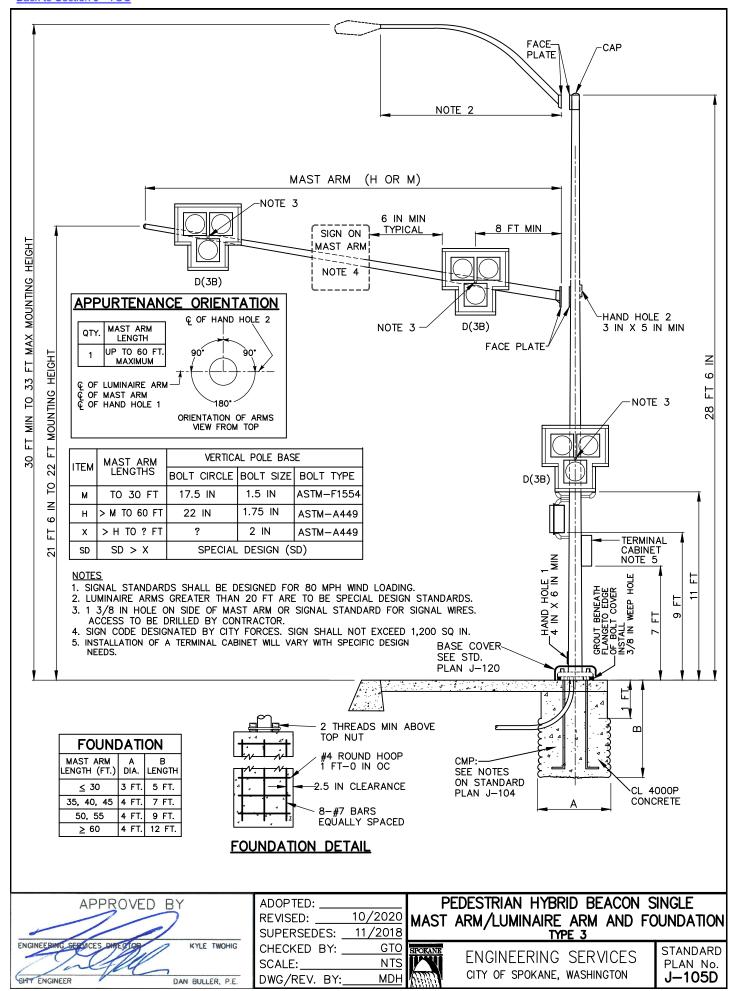
 OPTIONAL—NEAR RIGHT OR LEFT SIDE B(3) VEHICLE HEAD FOR APPROACH TRAFFIC IN RADIUS. SIDE OF POLE, HEIGHT VEHICLE HEAD IS LOCATED &

 DIRECTION VEHICLE HEAD IS FACING MAY VARY DEPENDING ON SPECIFIC DESIGN NEEDS OF THE INTERSECTION.
- 10. INSTALLATION OF A TERMINAL CABINET WILL VARY WITH SPECIFIC DESIGN NEEDS.
- 11. MOUNT TWO 3 SECTION SIGNAL HEADS CENTERED ON LANES WHEN USING 3 SECTION HEAD FOR LEFT TURN LANE.



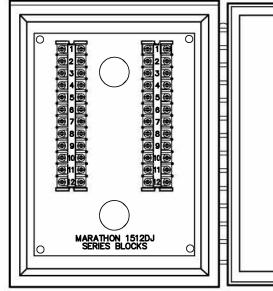


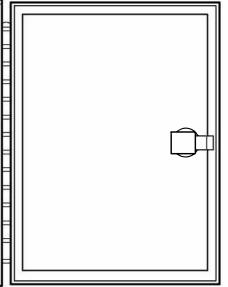




TERMINAL CABINET NOTES

- COMPLETELY FABRICATED FROM .125" THICK TYPE 5052-H32 VINYL COATED, MILL FINISHED ALUMINUM UTILIZING CONTINUOUS WELDED CONSTRUCTION.
- 2. NORMAL DIMENSIONS OF 16" (407mm) HEIGHT X 12" (305mm) WIDTH X 8" (203mm) DEPTH.
- 3. HEAVY GAGE STAINLESS STEEL PIANO HINGE.
- MEET NEMA 3R RATING AND HAS A DOUBLE FLANGED DOOR.
- 5. INCLUDES A DRIP SHIELD.
- (2-4) 12 POSITION 600V TERMINAL BLOCKS (MARATHON 1512DJ).
- 7. MARKER STRIPS PER FIELD REQUIREMENTS.
- MAIN DOOR LOCK IS BEST CX SERIES GREEN CORE LOCK WITH A LATCH TYPE LOCKING BOLT.
- 9. CLOSED CELL NEOPRENE DOOR GASKET USED.
- 10. FABRICATED IN THE USA.





20 CONDUCTOR CABLE CONFIGURATION

NORTH/SOUTH PHASE 2 & 6-SOLIDS

- RED-RED BALL
- AMBER-AMBER BALL
- GREEN-GREEN BALL
- BLUE—WALK
- BLACK-DON'T WALK
- BLUE W/ WHITE-PED CALL
 WHITE W/ BLACK-PED COMMON
- EAST/WEST PHASE 4 & 8-STRIPES
 - RED W/ BLACK-RED BALL
 - AMBER W/ BLACK-AMBER BALL
 - GREEN W/ BLACK-GREEN BALL

 - BLUE W/ BLACK-WALK
 BLACK W/ WHITE-DON'T WALK
 BLACK W/ RED-PED CALL
 WHITE W/ BLACK-PED COMMON

FLASHING YELLOW ARROW PHASE 1,3,5,7

- GREEN W/ WHITE-GREEN ARROW LEFT TURN
- RED W/ WHITE-RED ARROW
- AMBER W/ RED-AMBER ARROW
- BLUE W/ RED FLASHING-YELLOW ARROW
- WHITE-NEUTRAL

16_CONDUCTOR_CABLE_CONFIGURATION

NORTH/SOUTH PHASE 2 & 6-SOLIDS

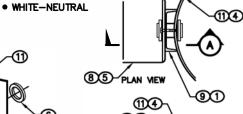
- RED-RED BALL
- AMBER-AMBER BALL
- GREEN-GREEN BALL
- BLUE-WALK
- BLACK-DON'T WALK
- BLUE W/ WHITE-PED CALL
- WHITE—PED COMMON

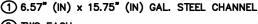
- EAST/WEST PHASE 4 & 8-STRIPES • RED W/ BLACK-RED BALL
 - AMBER W/ BLACK-AMBER BALL
 GREEN W/ BLACK-GREEN BALL

 - BLUE W/ BLACK-WALK
 - BLACK W/ WHITE-DON'T WALK
 BLACK W/ RED-PED CALL
 - WHITE-PÉD COMMON

PHASE 1,3,5,7

- GREEN W/ WHITE-GREEN ARROW LEFT TURN
- RED W/ WHITE-RED ARROW
- WHITE W/ BLACK-YELLOW ARROW



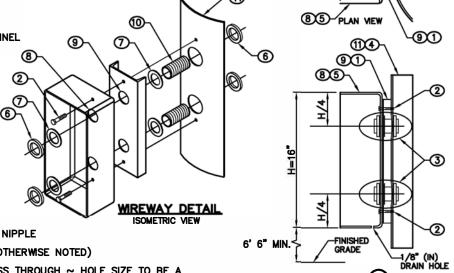


- (2) TWO EACH:

 •1/2" (IN) 13 NC x 2 1/2" (IN)

 S.S. HEX HEAD BOLT

 •LOCK WASHERS (DRILL AND
 - TAP POLE TO ACCEPT)
- (3) WIREWAY (SEE DETAIL THIS SHEET)
- (4) METAL POLE
- (5) CABINET
- 6 END BUSHING
- (7) SEALING LOCKNUT
- 8 CABINET WALL DRILLED 1/8" (IN) OVERSIZE OF NIPPLE
- (9) CHANNEL DRILLED 1/8" (IN) OVERSIZE OF NIPPLE
- (10) 2" (IN) DIAM. x 4" (IN) NIPPLE (UNLESS OTHERWISE NOTED)
- (1) POLE WALL DRILLED SO BUSHING WILL PASS THROUGH ~ HOLE SIZE TO BE A MAXIMUM OF 1/8" (IN) LARGER DIAMETER THAN THE CONDUIT NIPPLE END BUSHING ~ INSTALL NIPPLE IN POLE WITH BUSHING INSTALLED



APPROVED BY 11/2018 ADOPTED: REVISED: Supersedes: ,

CHECKED BY: GTO SPOKAN SCALE: NTS MDH DWG/REV. BY:

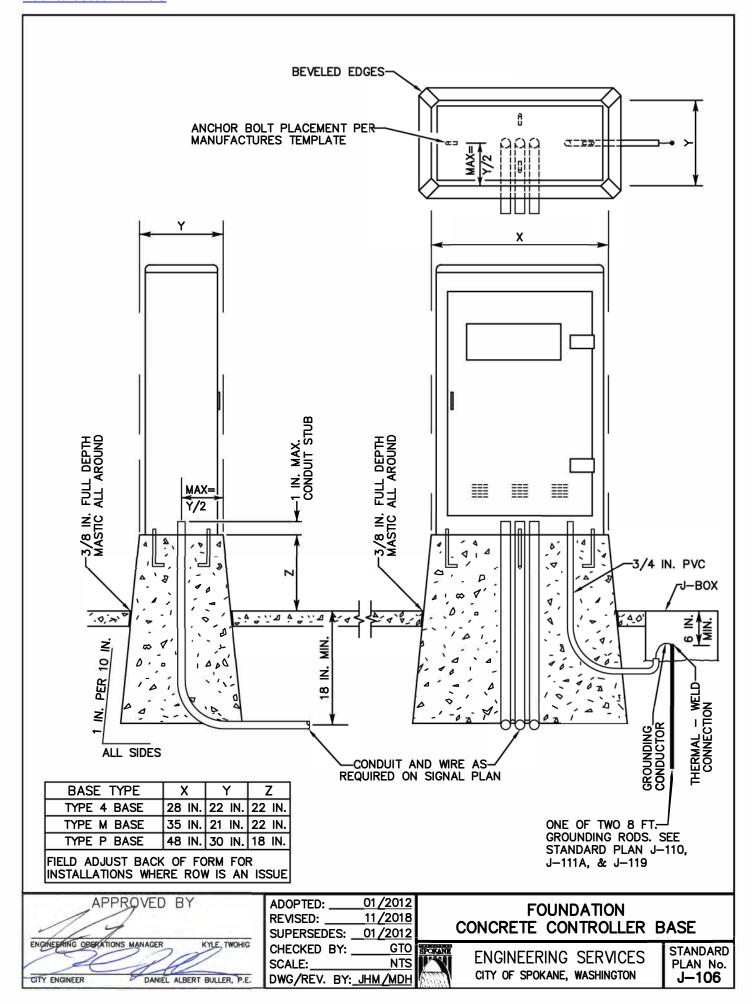
TERMINAL CABINET

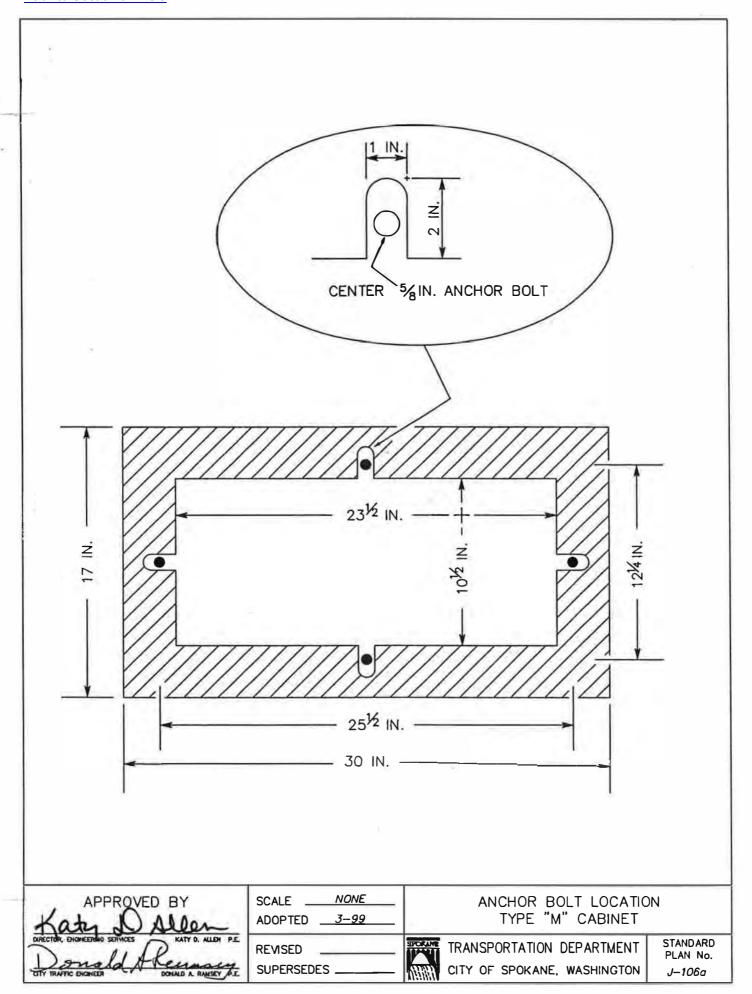
SECTION (A) CABINIET MOUNTING DETAIL **ELEVATION VIEW**

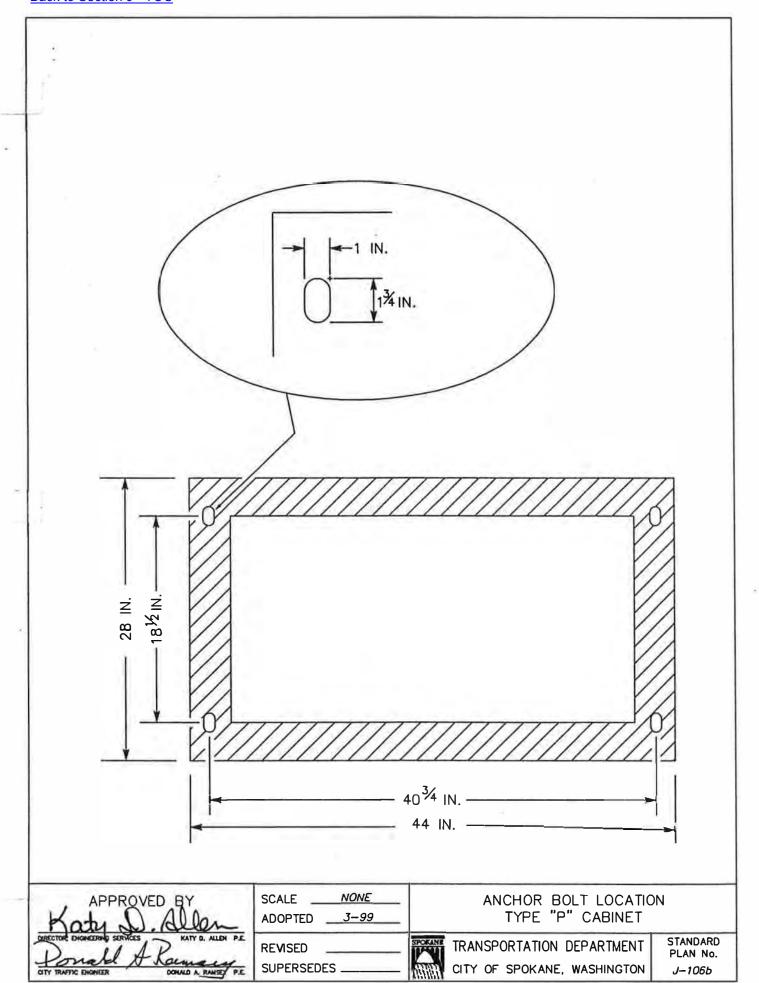
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

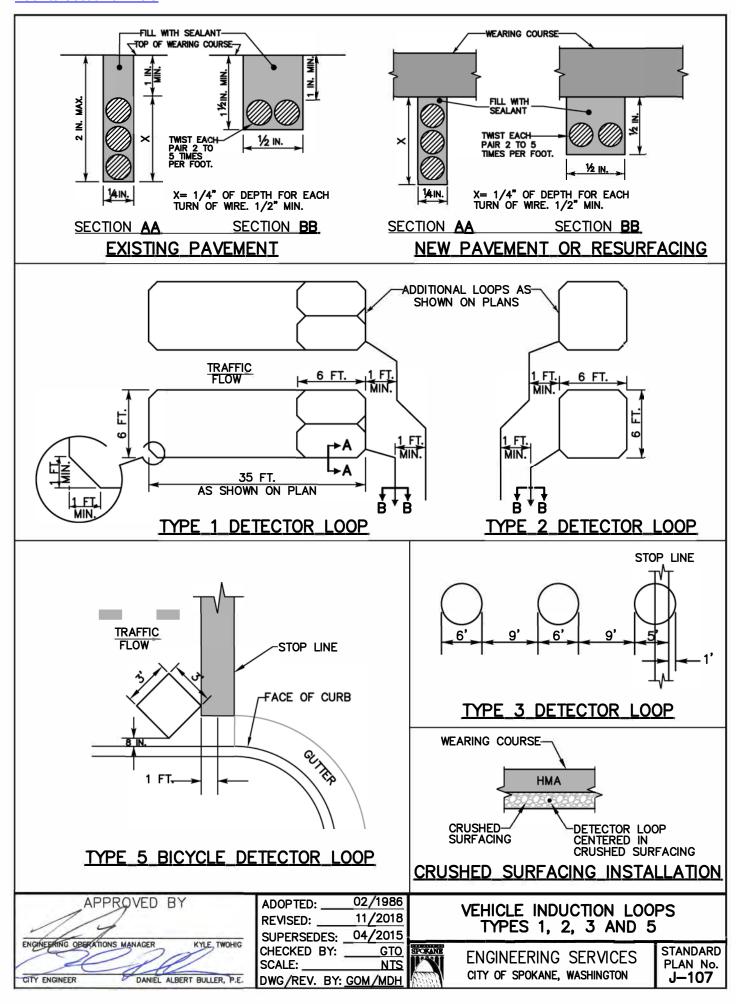
STANDARD PLAN No. J-105E

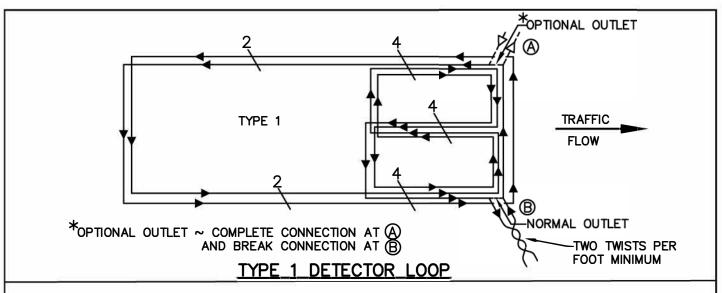
KYLE, TWOHIG ENGINEERING OPERATIONS MANAGER CITY ENGINEER DANIEL ALBERT BULLER, P.E.

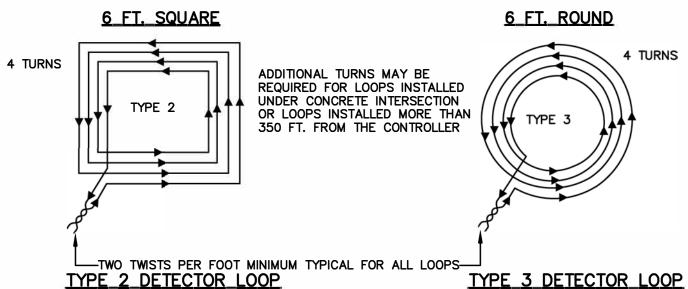


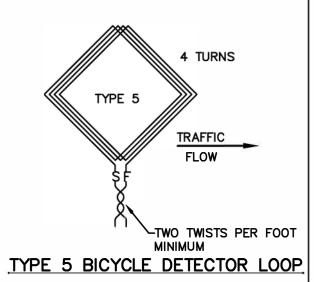


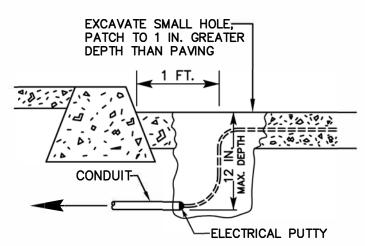












TYPICAL CONDUIT LOCATION

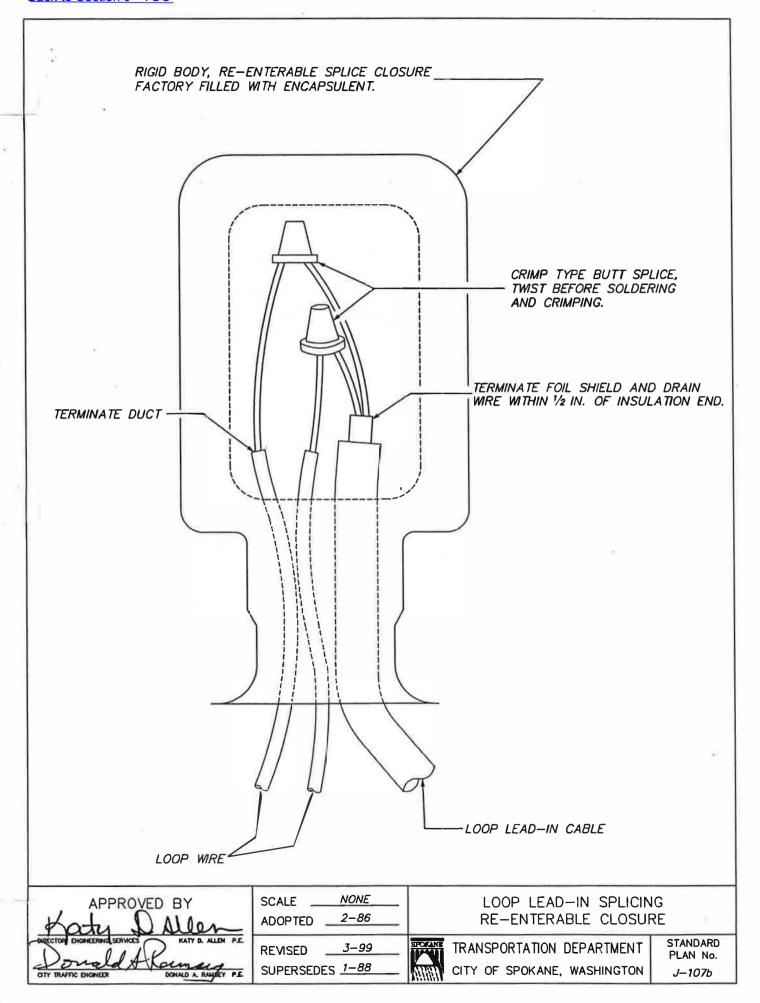
ROVED B	Y
S MANAGER	KYLE, TWOHIG
DANIEL ALS	ERT BULLER, P.E.
	S MANAGER

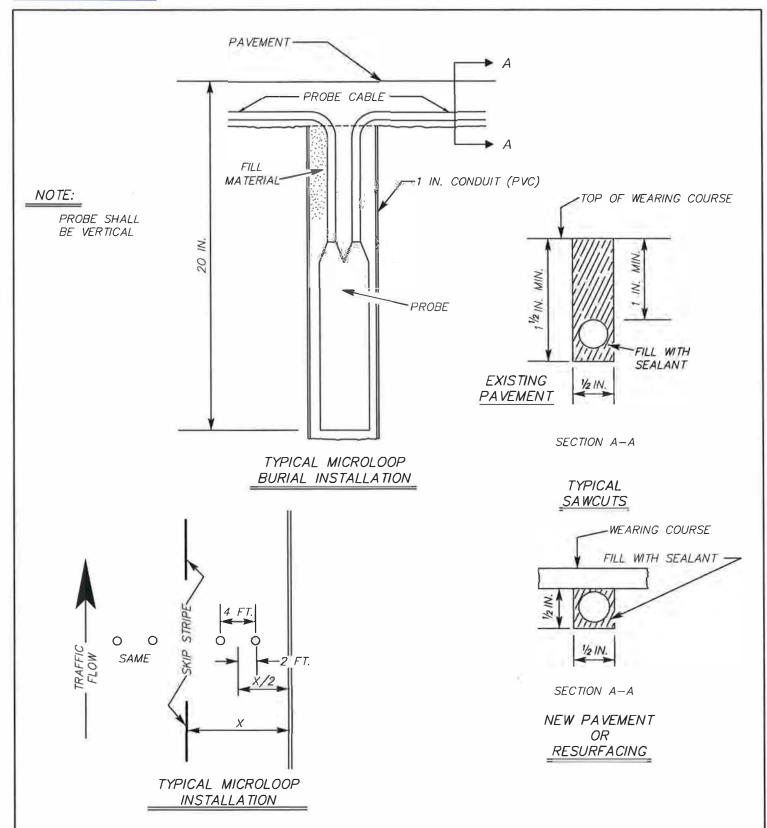
at the same of the	
ADOPTED:	01/2012
REVISED:	11/2018
SUPERSEDES:	04/2015
CHECKED BY:	GTO
SCALE:	NTS
DWG/REV. BY	GOM/MDH

VEHICLE INDUCTION LOOP WIRING TYPES 1, 2, 3 AND 5



STANDARD PLAN No. J-107A





THE INFORMATION PROVIDED HEREON IS TYPICAL FOR STANDARD SITUATIONS. FOR NON—STANDARD DESIGN SITUATIONS, THE ENGINEER OF RECORD SHALL DETERMINE AN APPROPRIATE DESIGN BASED UPON THE INTENT AS PROVIDED HEREON AND SUBMIT FOR REVIEW AND APPROVAL BY THE CITY TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE. FOR NON—STANDARD FIELD SITUATIONS, THE CONTRACTOR SHALL DETERMINE AN APPROPRIATE APPLICATION BASED UPON THE INTENT, AS PROVIDED HEREON AND CONFIRM SUCH WITH THE CITY TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE BEFORE PERMANENT IMPLEMENTATION.

APPROVED BY

ENGINEERING OPERATIONS KYLE TWOHIG

MANAGER

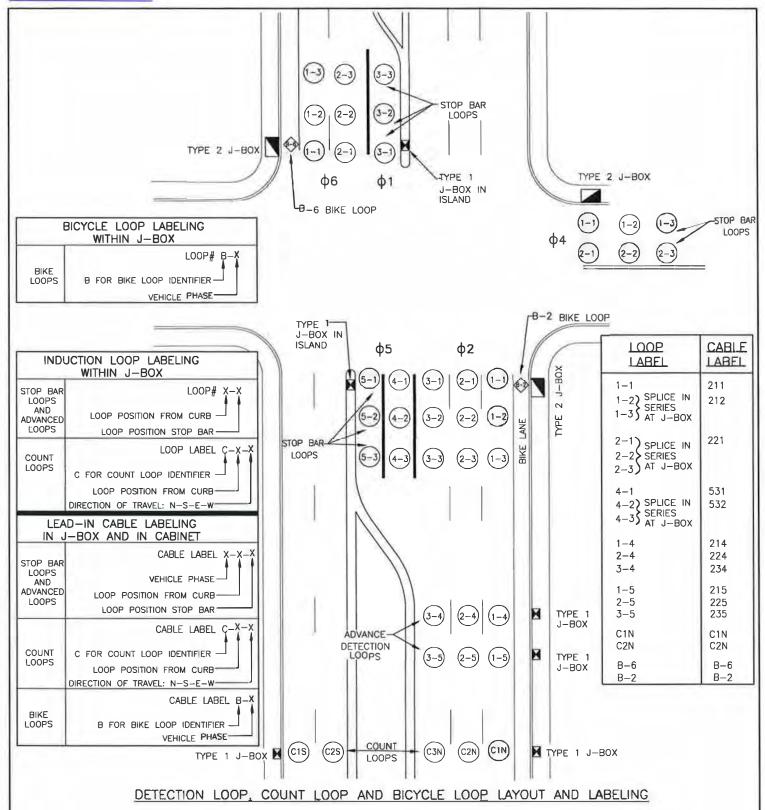
PRINCIPAL ENGINEER, CONST. KENNETH M. BROWN, P.E.

ADOPTED: 05/1989
REVISED: 04/2015
SUPERSEDES: 04/1999
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: GOM

MICROLOOP PROBE DETECTOR LOOP TYPE 4

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. J-107C



NOTES

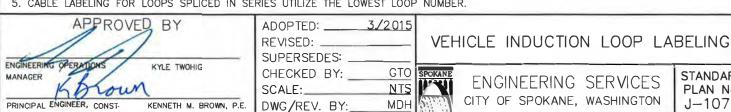
- 1. PREFORMED LOOPS SHALL BE INSTALLED IN THE CRUSHED SURFACING WITH 3 INCHES OF COVER.
- 2. PREFORMED LOOPS SHALL BE LABELED ACCORDING TO THE LANE POSITION ON THE STREET SIDE OF SPLICE AND ACCORDING TO THE CABLE LABELING ON THE CONTROLLER SIDE OF THE SPLICE.
- 3. LOOP LEAD-INS SHALL BE LABELED ACCORDING TO THIS PLAN IN THE JUNCTION BOX ADJACENT TO THE CURB & IN THE TRAFFIC ISLAND.
- 4. LOOP CLOSEST TO STOP BAR, IN BIKE LANE, CURB LANE AND LEFT TURN LANE EACH HAVE A HOME RUN CABLE TO CONTROLLER CABINET-IF NO LEFT TURN LANE, THEN THE LANE THE VEHICLE WILL TURN LEFT FROM.

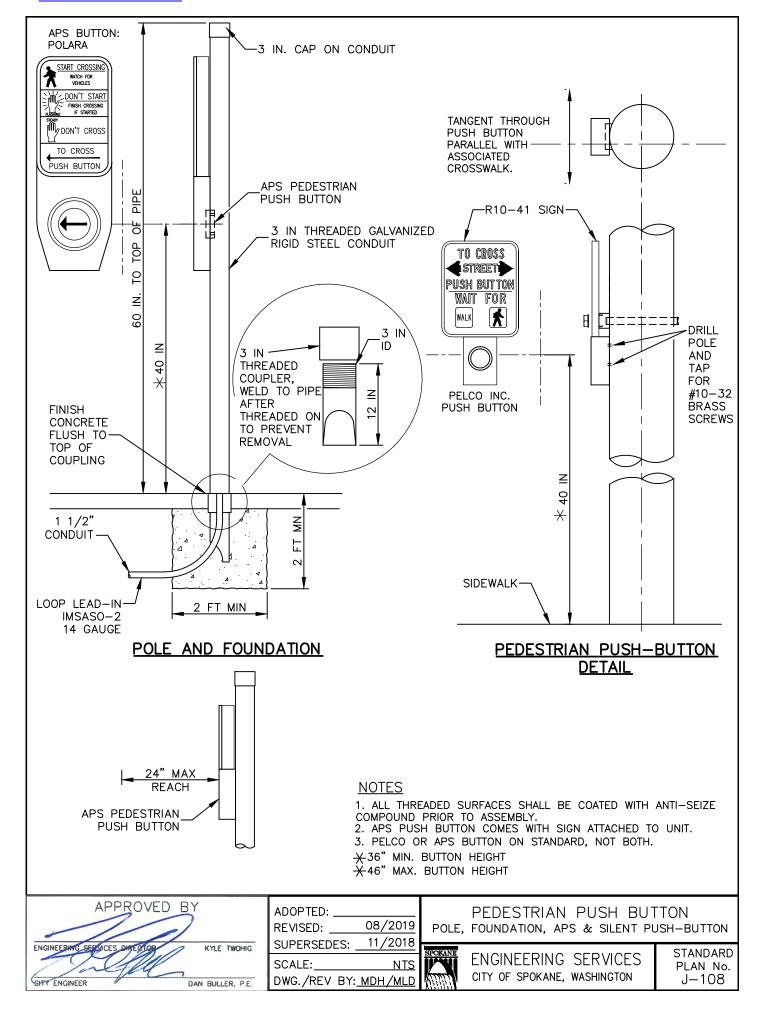
STANDARD

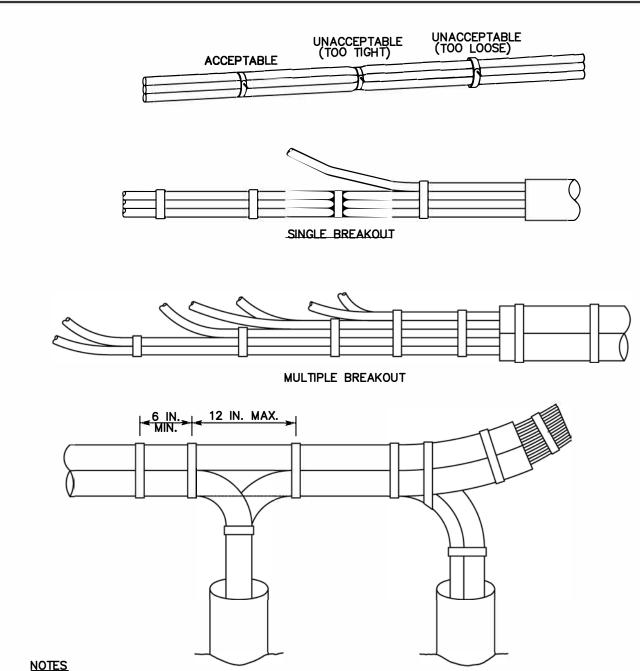
PLAN No.

J-107D

5. CABLE LABELING FOR LOOPS SPLICED IN SERIES UTILIZE THE LOWEST LOOP NUMBER.





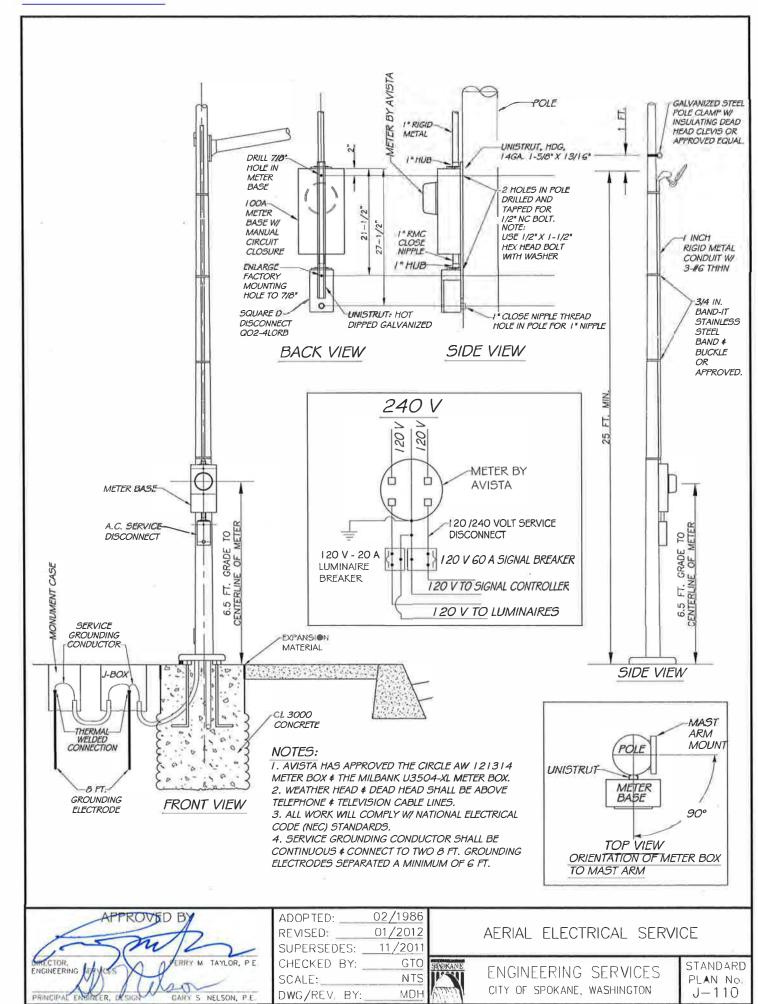


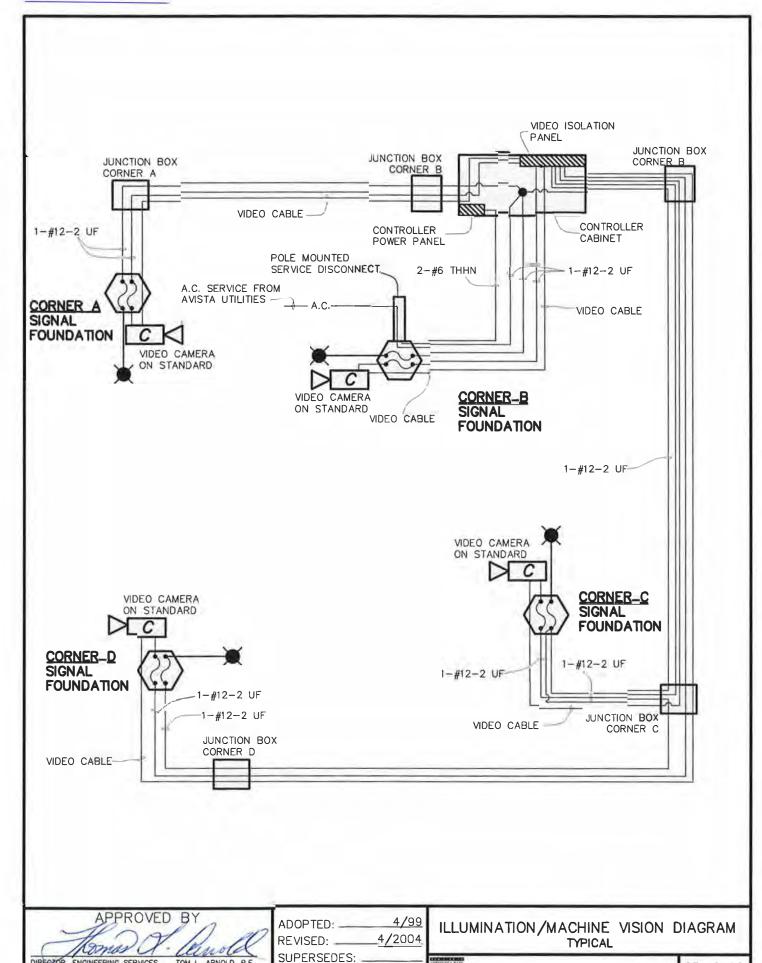
CABLES AND CONDUCTORS WITHIN THE CABINET SHALL BE ROUTED AND BUNDLED TOGETHER IN SUCH A MANNER AS TO PRESENT A NEAT APPEARANCE. SELF-CLINCHING NYLON CABLE TIES SHALL BE USED TO SECURELY BUNDLE TOGETHER CABLES AND CONDUCTORS. CABLE TIES SHALL BE SPACED NOT MORE THAN 12-INCHES APART NOR CLOSER THAN 6-INCHES, UNLESS BREAKOUTS OR ROUTING DICTATES.

CABLES AND CONDUCTORS FOR THE TRAFFIC SIGNAL CIRCUITS, LOOP DETECTORS AND TELEMETRY CIRCUITS SHALL BE ROUTED TO THE FRONT OF THE CABINET, THEN <u>CLOCKWISE</u> AROUND THE LEFT SIDE TO BENEATH THE APPROPRIATE TERMINATION POINT. THE AC SERVICE AND THE LUMINAIRE WIRING SHALL BE ROUTED TO THE FRONT OF THE CABINET, THEN <u>COUNTER-CLOCKWISE</u> TO THE RIGHT SIDE OF THE CABINET.

TRAFFIC SIGNAL CABLES AND CONDUCTORS JACKET IS TO BE STRIPPED TO WITHIN 2-INCHES OF BELL END.

APPROVED BY	ADOPTED: <u>02/1986</u> REVISED: <u>11/2018</u> SUPERSEDES: <u>03/1999</u>	AND	
ENGINEERING OBERATIONS MANAGER KYLE, TWOHIG CITY ENGINEER DANIEL ALBERT BULLER, P.E.	CHECKED BY: GTO SCALE: NTS DWG/REV. BY: MDH	ENGINEERING SERVICES	STANDARD PLAN No. J—109





STANDARD

PLAN No.

J-111

ENGINEERING SERVICES

CITY OF SPOKANE, WASHINGTON

TOM L. ARNOLD, P.E.

KEN M. BROWN, P.E.

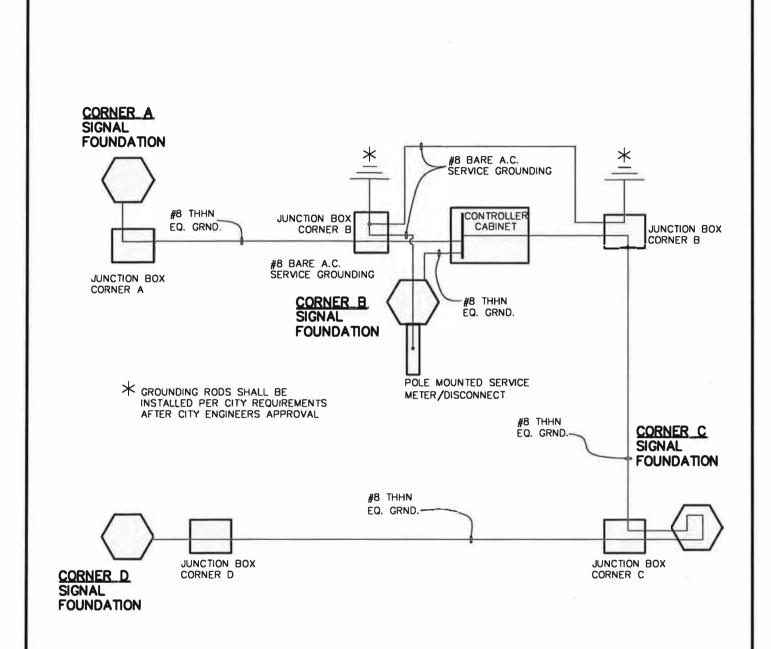
PRINCIPAL ENGINEER, DESIGN

SCALE:

DWG/REV. BY:

NTS

SRM



APPROVED BY Eldon Brow ACTING DIRECTOR ELDON W. BROWN, P.E. GARY S. NELSON, P.E. PRINCIPAL ENGINEER, DESIGN

04/1999 ADOPTED: _ 01/2008 REVISED: SUPERSEDES: 04/2004 JAG CHECKED BY:

DWG/REV. BY: SRM/CVH

NTS

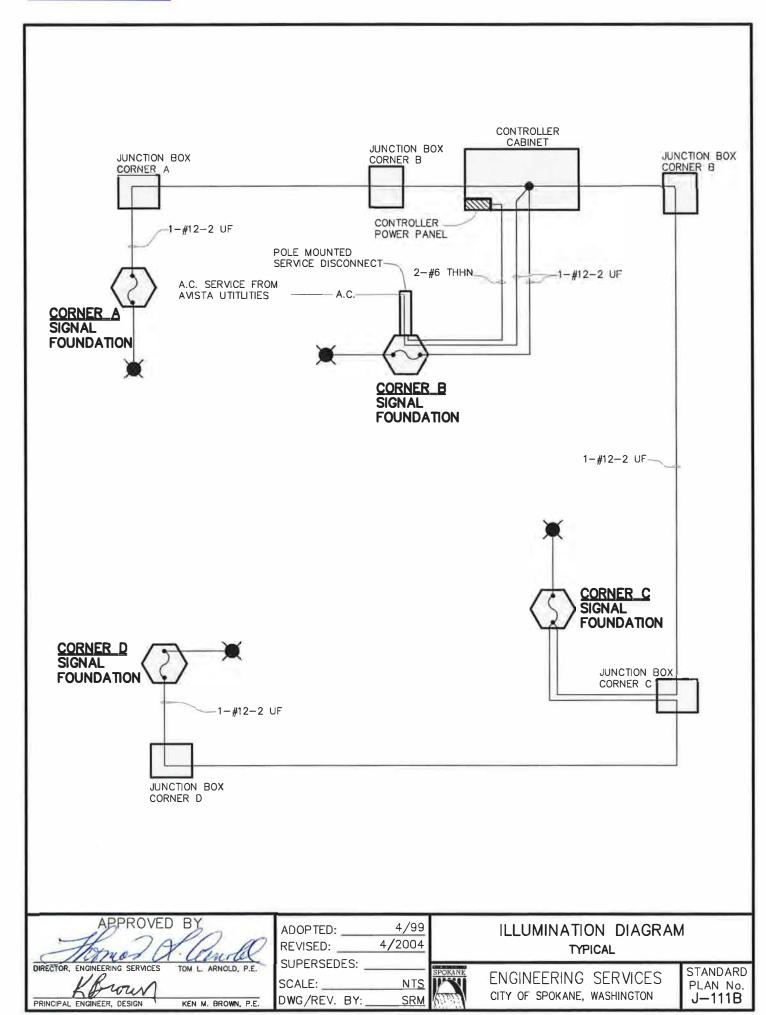
SCALE:

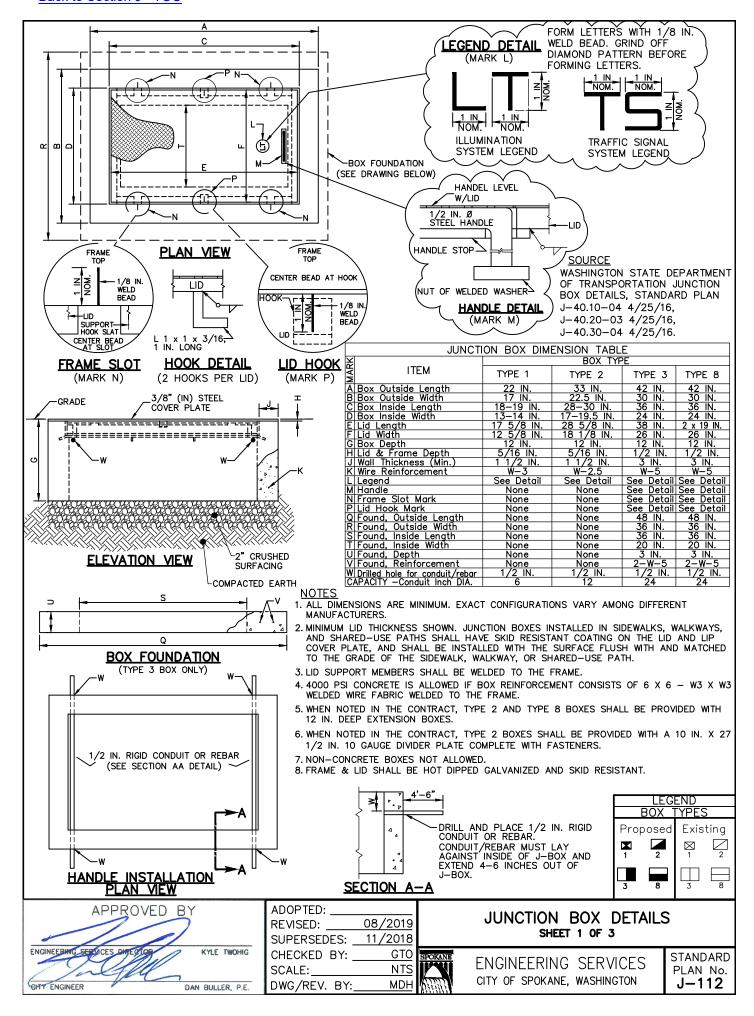
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

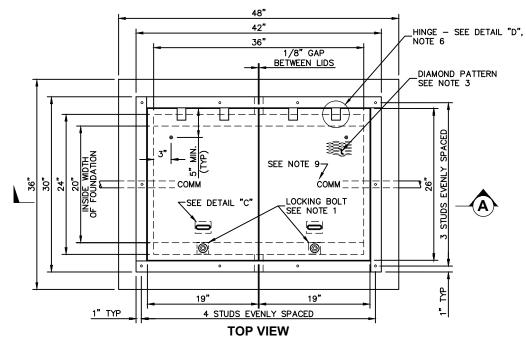
GROUNDING WIRE DIAGRAM

TYPICAL

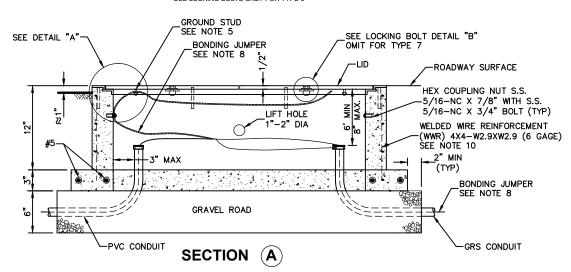
STANDARD PLAN No. J-111A







USE LOCKING BOLTS ONLY FOR TYPE 8



NOTES:

- 1. JUNCTION BOXES TYPE 7 AND TYPE 8 ARE IDENTICAL EXCEPT FOR THE ADDITION OF LOCKING BOLTS ON THE TYPE 8.
- 2. ALL BOX DIMENSIONS ARE APPROXIMATE, EXACT CONFIGURATIONS VARY AMONG MANUFACTURERS
- 3. MINIMUM LID THICKNESS SHOWN. JUNCTION BOXES INSTALLED IN SIDEWALKS, WALKWAYS, AND SHARED-USE PATHS SHALL HAVE A SKID RESISTANT COATING ON THE LID AND LIP COVER PLATE, AND SHALL BE INSTALLED WITH THE SURFACE FLUSH WITH AND MATCHED TO THE GRADE OF THE SIDEWALK, WALKWAY, OR SHARED-USE PATH.
- 4. LID SUPPORT MEMBERS SHALL BE $3/16^{\circ}$ Min. THICK STEEL C, L, OR T SHAPE, WELDED TO THE FRAME. EXACT CONFIGURATIONS VARY AMONG MANUFACTURERS.
- 5. A 1/4-2ONC X 3/4" S.S GROUND STUD SHALL BE WELDED TO THE BOTTOM OF EACH LID; INCLUDE S.S NUT AND FLAT WASHER.
- 6. THE HINGES SHALL ALLOW THE LIDS TO OPEN 180°.

- 7. BOLTS AND NUTS SHALL BE LIBERALLY COATED WITH ANIT-SEIZE COMPOUND.
- 8. CONNECT A BONDING JUMPER TO STEEL CONDUIT BUSHING FOR GRS CONDUIT; CONNECT TO EQUIPMENT GROUNDING CONDUCTOR FOR PVC CONDUIT. AS AN ALTERNATIVE TO THE GROUND STUD CONNECTION, THE BONDING JUMPER SHALL BE ATTACHED TO THE FRONT FACE OF THE HINGE POCKET WITH A 5/16-20NC X 3/4" S.S. BOLT, NUT, AND FLAT WASHER. BONDING JUMPER SHALL BE #8 MIN. X 4' OF TINNED BRAIDED COPPER.
- 9. THE SYSTEM IDENTIFICATION LETTERS SHALL BE 1/8" LINE THICKNESS FORMED BY ENGRAVING, STAMPING, OR WITH A S.S. WELD BEAD. GRIND OFF DIAMOND PATTERN BEFORE FORMING LETTERS. SEE SYSTEM IDENTIFICATION DETAIL.
- 10. SEE THE STANDARD SPECIFICATIONS FOR ALTERNATIVE REINFORCEMENT AND CLASS OF CONCRETE.

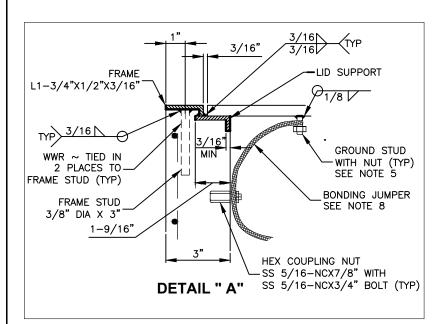
APPRO\	ED BY
ENGINEERING SERVICES DIVEGIO	KYLE TWOHIG
They	
CHT ENGINEER	DAN BULLER, P.E.

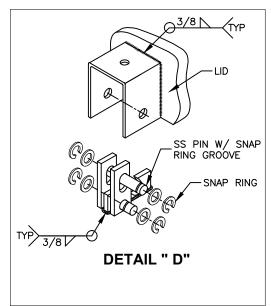
JUNCTION BOX DETAILS

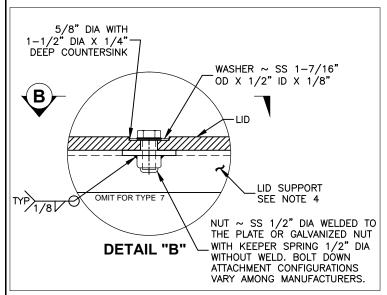
TYPE 8

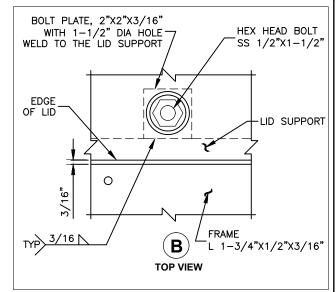
SHEET 2 OF 3

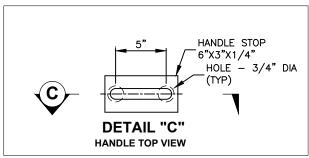
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

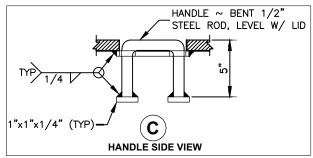








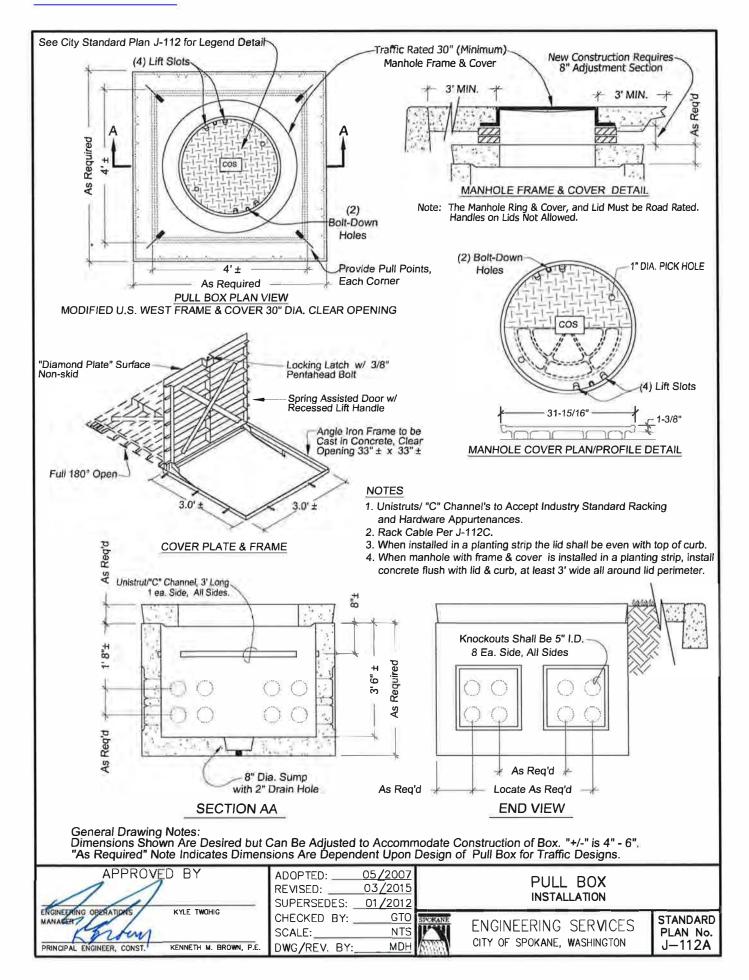


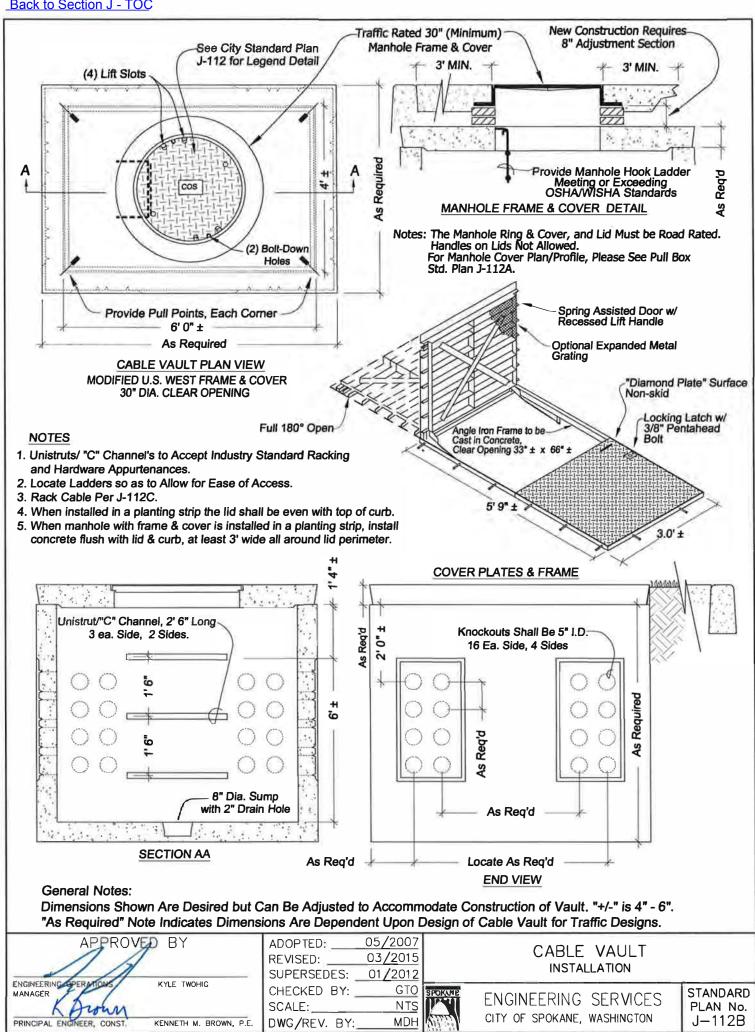


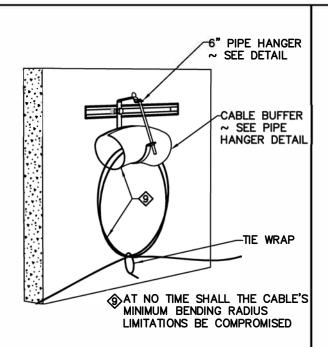
APPROVED	BY
	-)
ENGINEERING SERVICES DIFFERIOR	KYLE TWOHIG
/ July Me	
CHT ENGINEER	DAN BULLER, P.E.

JUNCTION BOX DETAILS TYPE 7 SHEET 3 OF 3

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

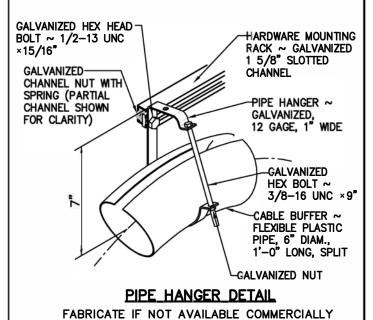




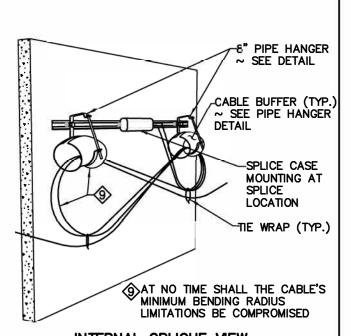


INTERNAL OBLIQUE MEW

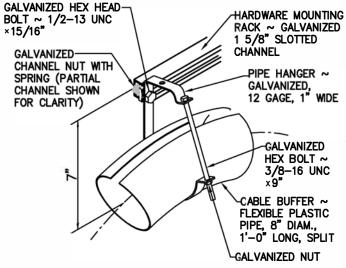
COIL THE CABLE BY USING A "FIGURE 8" FOLDED IN THE MIDDLE TO FORM A LOOP



PULL BOX



INTERNAL_OBLIQUE_VIEW



PIPE HANGER DETAIL

FABRICATE IF NOT AVAILABLE COMMERCIALLY

CABLE VAULT DETAILS

AP	PROVED B	Υ
ENGINEERING OBERATION	ONS MANAGER	KYLE, TWOHIG
CITY ENGINEER	DANIEL AL	BERT BULLER, P.E.

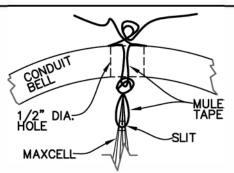
C	
ADOPTED:	01/2012
REVISED	11/2018
SUPERSEDES:	01/2012
CHECKED BY:	GTO
SCALE:	NTS
DWG/REV. BY:	MDH

CABLE RACKING FOR PULL BOX & CABLE VAULT INST.ALLATION



ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

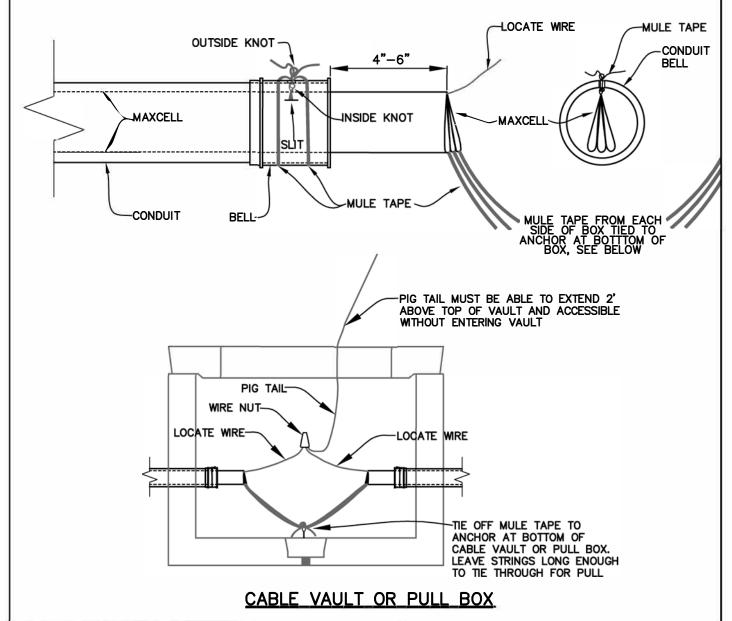
STANDARD PLAN No. J—112C



MULE TAPE TIES

- 1. DRILL A 3/8" to 1/2" DIA. HOLE IN TOP OF BELL.
- 2. LOOP APPROX. 3-4 FT. MULE TAPE THROUGH 1/2" HORIZONTAL SLIT MADE IN TOP OF MAXCELL. TIE A KNOT ABOVE MAXCELL INSIDE CONDUIT.
- 3. FEED BOTH ENDS OF MULE TAPE UP THROUGH HOLE IN BELL AND WRAP AROUND OUTSIDE OF CONDUIT BELL 2 TIMES AND SECURE WITH A KNOT ON TOP.

MULE TAPE AT TOP OF MAXCELL AND CONDUIT BELL NTS



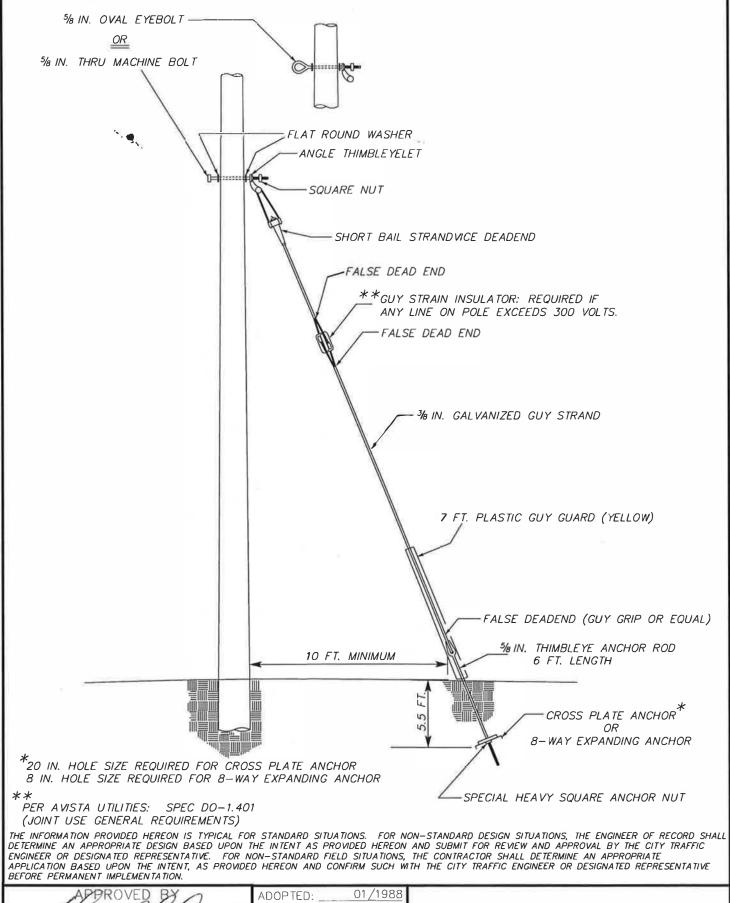
APP	ROVED B	BY
ENGINEERING OPERATIONS	MANAGER	KYLE TWOHIG
CITY ENGINEER	DANIEL AL	BERT BULLER, P.E.

ADOPTED:	11/2018
REVISED:	
SUPERSEDES: _	
CHECKED BY:_	GTO
SCALE:	NTS
DWG/REV. BY:_	JHM

MAXCELL ANCHORED IN PULL BOX OR CABLE VAULT

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. J-112D

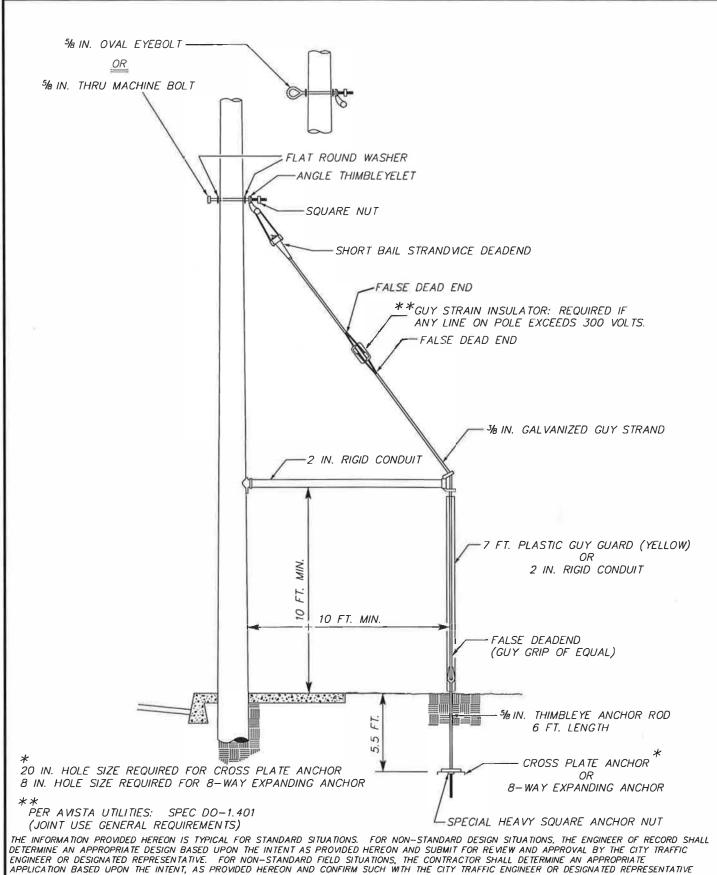


DIRECTOR, ENGINEERING SERVICES TOM L. ARNOLD, P.E.

ADOPTED: 01/1988
REVISED: 05/2007
SUPERSEDES: 04/1999
CHECKED BY: GTO
SCALE: NTS
DWG/REV. BY: CVH

DOWN GUY

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON



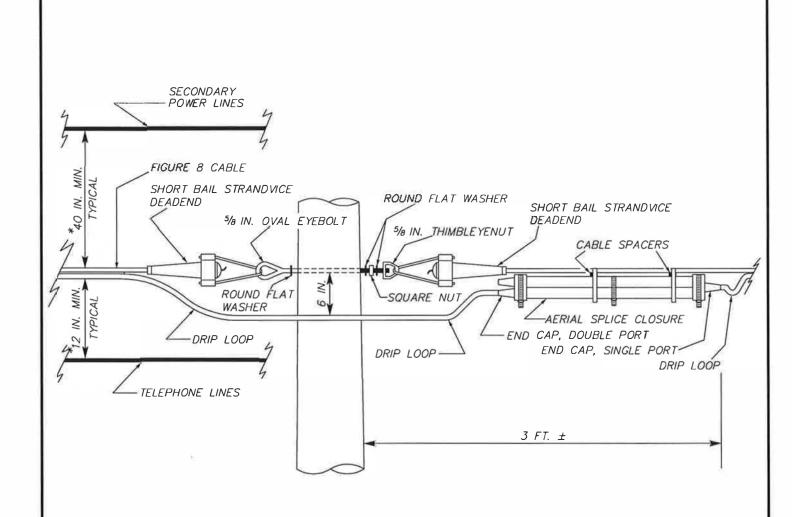
THE INFORMATION PROVIDED HEREON IS TYPICAL FOR STANDARD SITUATIONS. FOR NON-STANDARD DESIGN SITUATIONS, THE ENGINEER OF RECORD SHALL DETERMINE AN APPROPRIATE DESIGN BASED UPON THE INTENT AS PROVIDED HEREON AND SUBMIT FOR REMEW AND APPROVAL BY THE CITY TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE. FOR NON-STANDARD FIELD SITUATIONS, THE CONTRACTOR SHALL DETERMINE AN APPROPRIATE APPLICATION BASED UPON THE INTENT, AS PROVIDED HEREON AND CONFIRM SUCH WITH THE CITY TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE BEFORE PERMANENT IMPLEMENTATION.

DIRECT TOM L. ARNOLD, P.E. ENGINEER, DESIGN GARY S. NELSON, P.E.

ADOPTED:	01/1988
REVISED:	05/2007
SUPERSEDES:	04/1999
CHECKED BY:	GTO
SCALE:	NTS
DWG /REV BY	CVH

SIDEWALK BACK GUY

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON



THE INFORMATION PROVIDED HEREON IS TYPICAL FOR STANDARD SITUATIONS. FOR NON-STANDARD DESIGN SITUATIONS, THE ENGINEER OF RECORD SHALL DETERMINE AN APPROPRIATE DESIGN BASED UPON THE INTENT AS PROVIDED HEREON AND SUBMIT FOR REVIEW AND APPROVAL BY THE CITY TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE. FOR NON-STANDARD FIELD SITUATIONS, THE CONTRACTOR SHALL DETERMINE AN APPROPRIATE APPLICATION BASED UPON THE INTENT, AS PROVIDED HEREON AND CONFIRM SUCH WITH THE CITY TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE BEFORE PERMANENT IMPLEMENTATION.

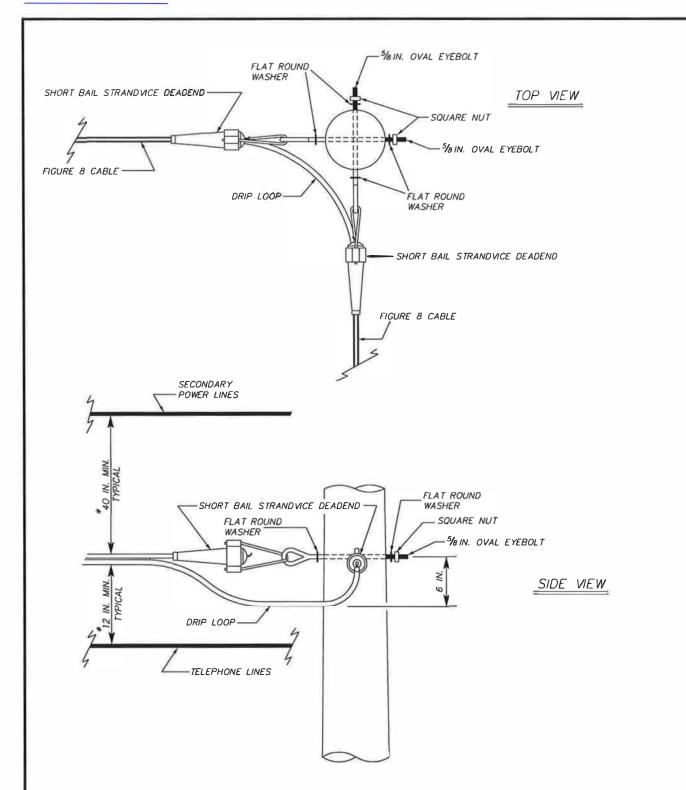
*SOURCE: AVISTA UTILITIES DISTRIBUTION STANDARDS DWG. DO-1.401 AND DO-1.407

APPROVE	D By
Mouro to	10,00
DIRECTOR, ENGINEERING BERVICES	TOM L. ARNOLD, P.E.
MA Nolas	
PRINCIPAL ENGINEER, DESIGN	GARY S. NELSON, P.E.

ADOPTED:	01/1988
REVISED:	05/2007
SUPERSEDES:	04/1999
CHECKED BY:	<u>G</u> TO
SCALE:	NTS
DWG/REV, BY:	CVH

AERIAL SPLICE CLOSURE

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON



THE INFORMATION PROVIDED HEREON IS TYPICAL FOR STANDARD SITUATIONS. FOR NON—STANDARD DESIGN SITUATIONS, THE ENGINEER OF RECORD SHALL DETERMINE AN APPROPRIATE DESIGN BASED UPON THE INTENT AS PROVIDED HEREON AND SUBMIT FOR REVIEW AND APPROVAL BY THE CITY TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE. FOR NON—STANDARD FIELD SITUATIONS, THE CONTRACTOR SHALL DETERMINE AN APPROPRIATE APPLICATION BASED UPON THE INTENT, AS PROVIDED HEREON AND CONFIRM SUCH WITH THE CITY TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE BEFORE PERMANENT IMPLEMENTATION.

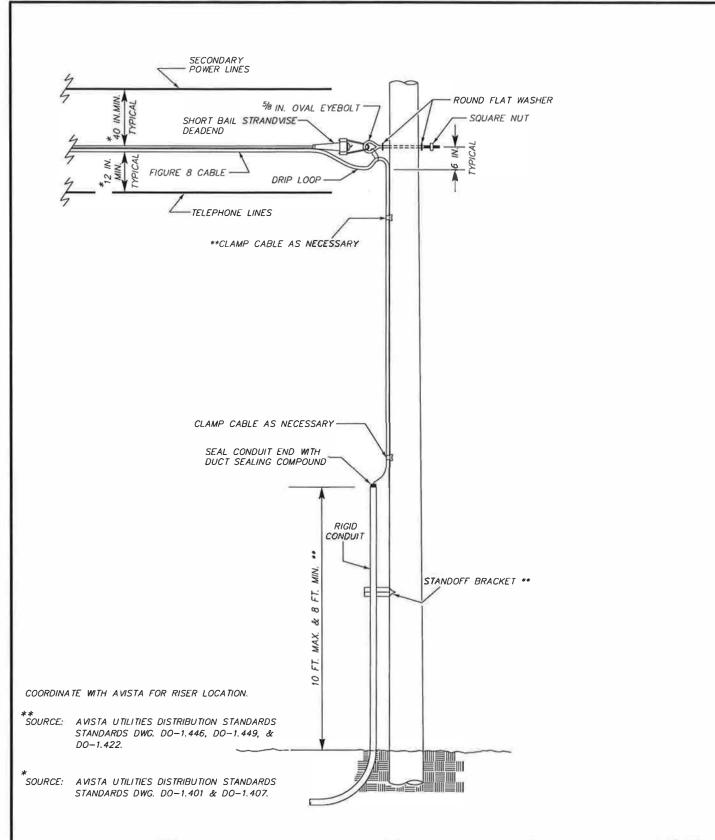
*SOURCE: AVISTA UTILITIES DISTRIBUTION STANDARDS DWG. DO-1.401 AND DO-1.407

APPRIOVE	D BY
1	N/1 10
Mayria (A Clive
DIRECTOR ENGINEERING SERVICES	TOM L. ARNOLD, P.E.
M/ / //elps	5
PRINCIPAL ENGINEER, DESIGN	GARY S. NELSON, P.E.

ADOPTED:	01/1988
REVISED:	05/2007
SUPERSEDES:	04/1999
CHECKED BY:	GTO
SCALE:	NTS
DWG/REV. BY:	CVH

CORNER	DEAD	END
	レレバレ	

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON



THE INFORMATION PROVIDED HEREON IS TYPICAL FOR STANDARD SITUATIONS. FOR NON-STANDARD DESIGN SITUATIONS, THE ENGINEER OF RECORD SHALL
DETERMINE AN APPROPRIATE DESIGN BASED UPON THE INTENT AS PROVIDED HEREON AND SUBMIT FOR REVIEW AND APPROVAL BY THE CITY TRAFFIC
ENGINEER OR DESIGNATED REPRESENTATIVE. FOR NON-STANDARD FIELD SITUATIONS, THE CONTRACTOR SHALL DETERMINE AN APPROPRIATE
APPLICATION BASED UPON THE INTENT, AS PROVIDED HEREON AND CONFIRM SUCH WITH THE CITY TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE
BEFORE PERMANENT IMPLEMENTATION.

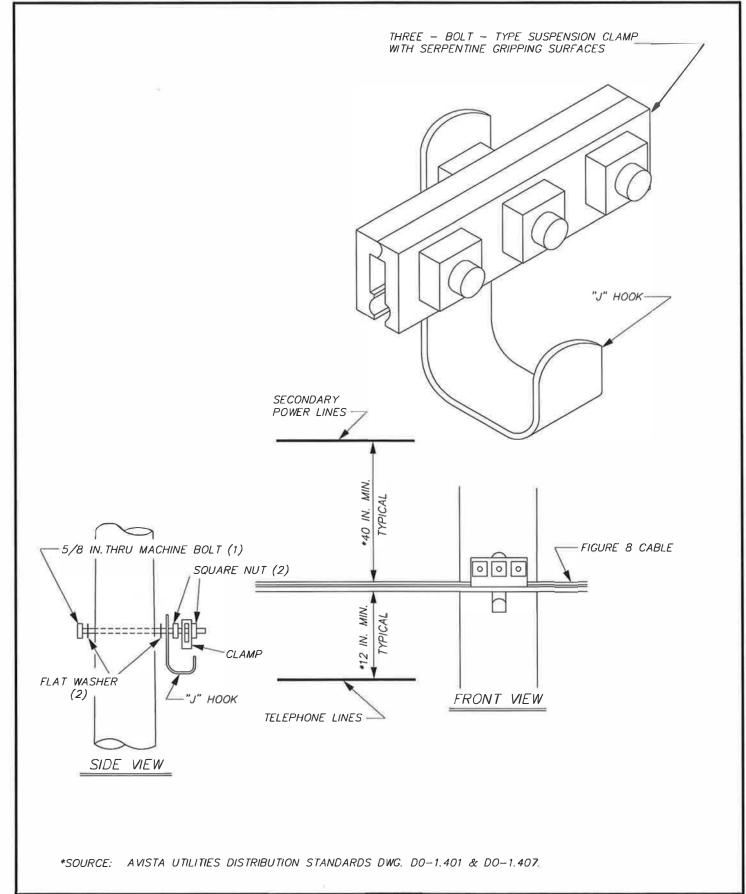
APPROVED BY	7 1
11 291	/ DE
Thomas & Un	well s
DIRECTOR, ENGINEERING SERVICES TOM L. AR	IOLD, P.E.
MANULO	S
PRINCIPAL ENGINEER, DESIGN GARY S.	IELSON, P.E. D

ADOPTED:	01/1988
REVISED:	05/2007
SUPERSEDES:	04/1999
CHECKE BY:	GTO
SCALE:	NTS
DWG/REV. BY:	CVH

DEADEND & UNDERGROUND ENTRANCE



ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON



DIRECTOR ENGINEER, DESIGN GARY S. NELSON, P.E.

ADOPTED: 01/1988

REVISED: 05/2007

SUPERSEDES: 04/1999

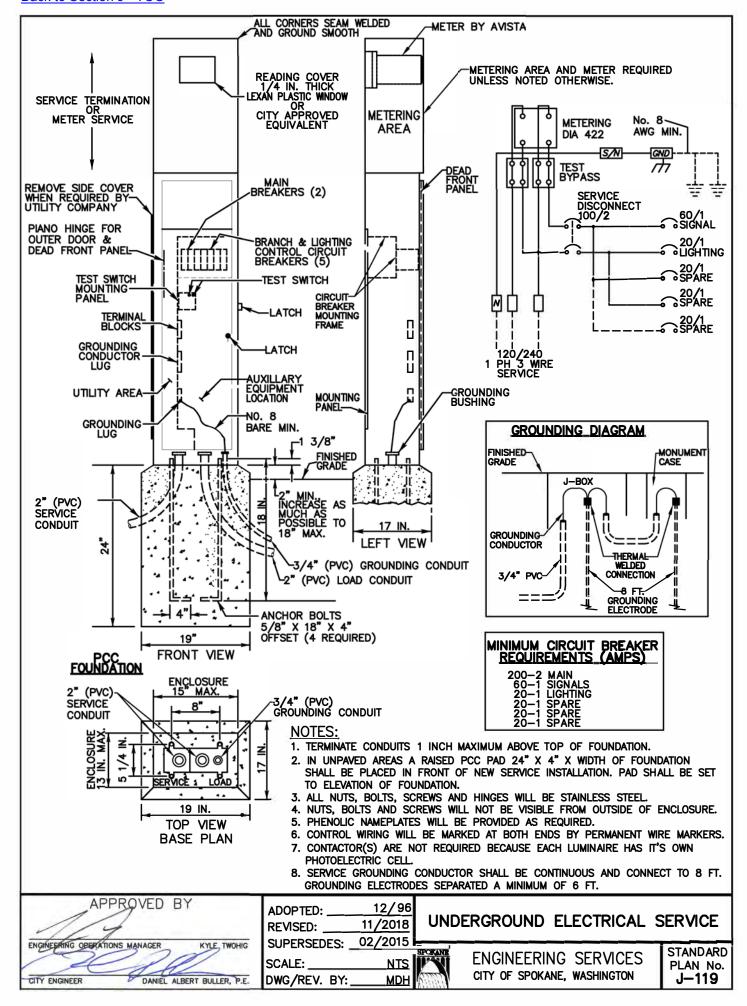
CHECKED BY: GTO

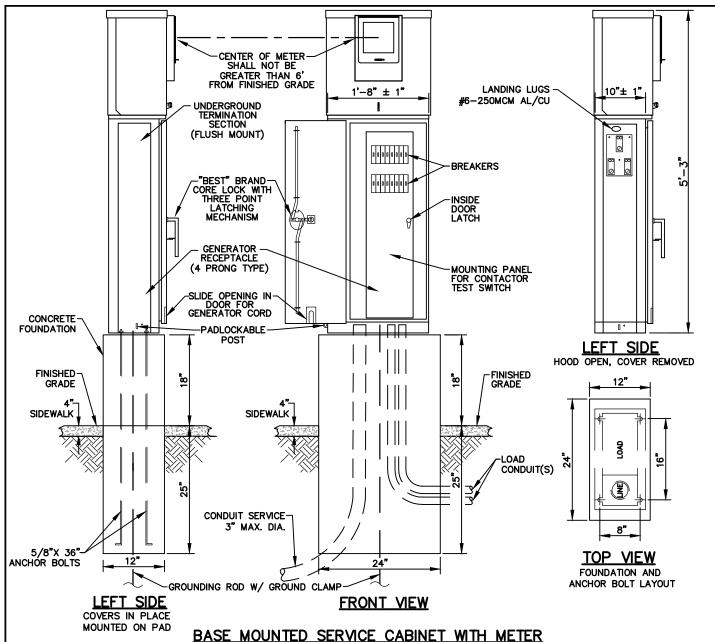
SCALE: NTS

DWG/REV. BY: CVH

SUSPENSION CLAMP FIGURE 8 SYSTEM

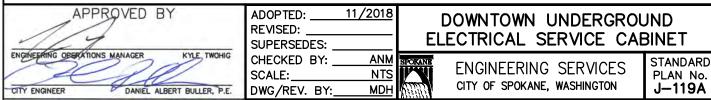
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

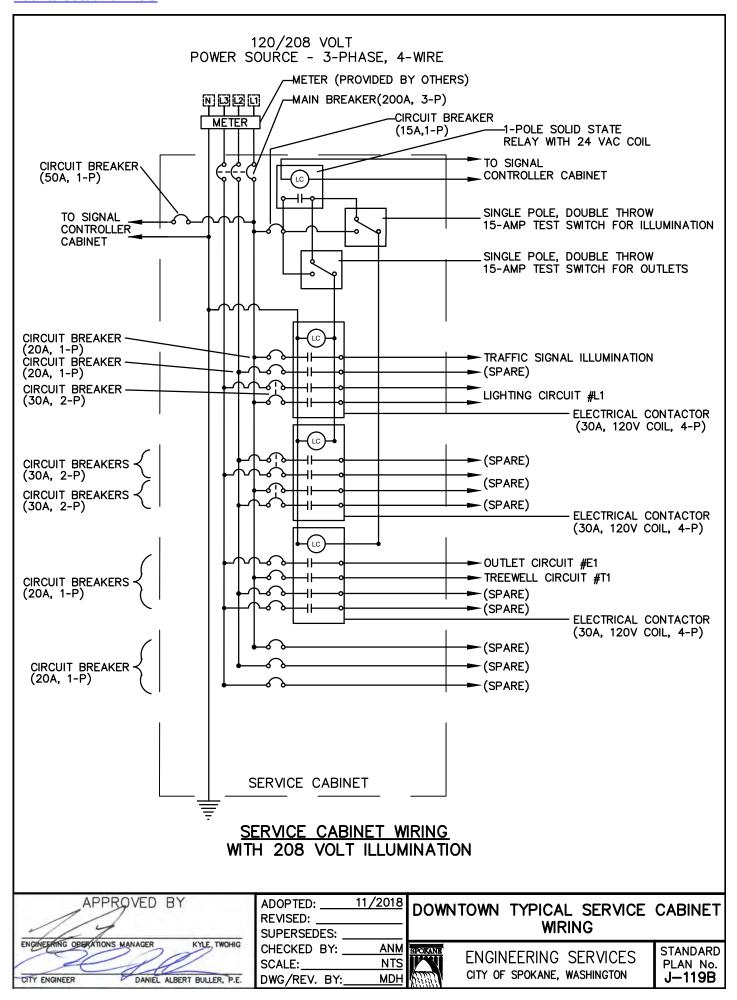


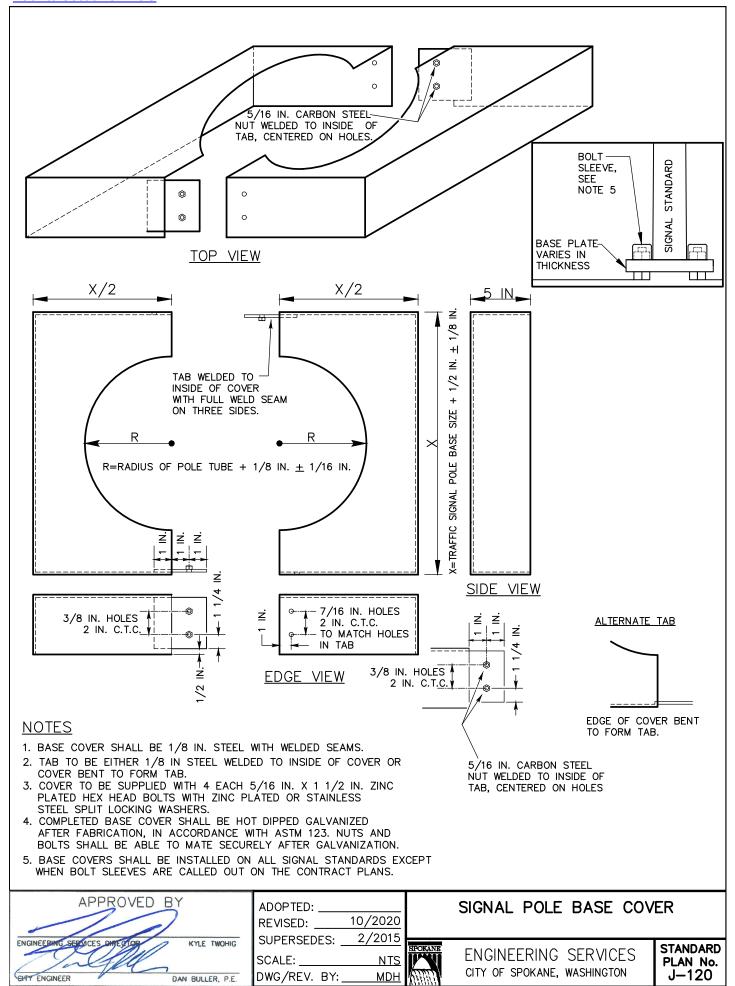


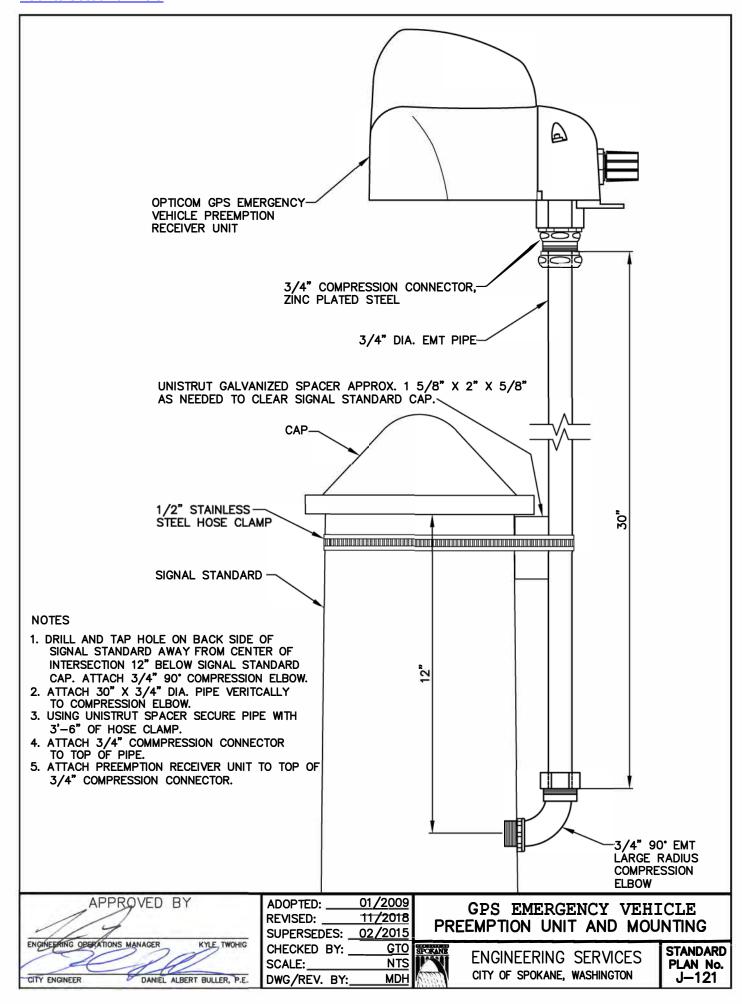
NOTES

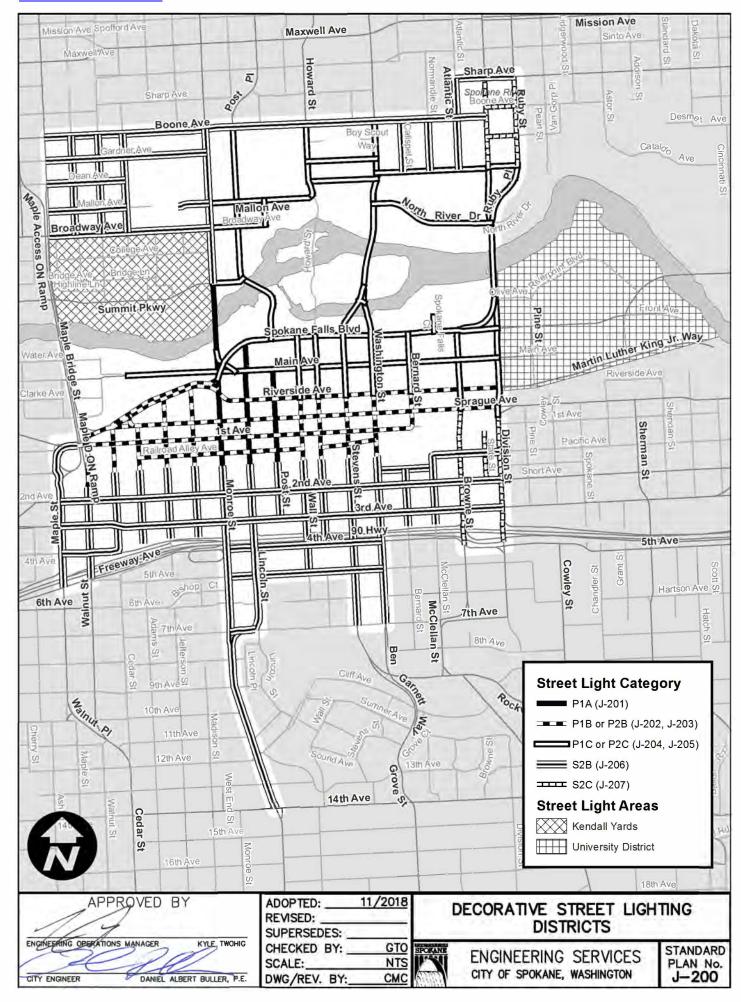
- 1. SERVICE CABINET SHALL BE A TAMPER RESISTANT, SLIMLINE, WEATHERPROOF, PAD MOUNTED PEDESTAL WITH MAIN AND SUBFEED CIRCUIT BREAKERS AND CONTROLS AS SHOWN.
- 2. THE SERVICE CABINET SHALL BE METERED. MAIN CIRCUIT BREAKER SHALL BE 100K AIC SERIES RATED.
- 3. CONSTRUCTION WILL BE NEMA 3R AND 12, RAINTIGHT, DUST TIGHT, WITH MILL FINISH.
- METAL WORK SHALL BE FABRICATED FROM; EXTERNAL-1/8" ALUMINUM SHEET STOCK AND INTERNAL-14 GA. COLD ROLLED STEEL, ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
- 5. EXTERNAL CORNERS AND SEAMS SHALL BE GROUND SMOOTH.
- 6. ALL NUTS, BOLTS, AND SCREWS WILL BE STAINLESS STEEL.
- 7. NUTS, BOLTS AND SCREWS WILL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
- 8. HINGES SHALL BE CONTINUOUS ALUMINUM PIANO TYPE.
- 9. ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA AND UL STANDARDS.
- 10. CONTROL WIRING SHALL BE SEVEN STRAND NO. 14 TW EXCEPT FOR HINGE WIRING, WHICH SHALL BE 19 STRAND NO. 14 THHN.
- 11. WRING SHALL BE ARRANGED SO THAT ANY PIECE OF APPARATUS MAY BE REMOVED WITHOUT DISCONNECTING ANY WIRING EXCEPT THE LEADS TO PERMANENT CLIP SLEEVE WIRE MARKERS.
- 12. ALL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
- 13. A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
- 14. NAMEPLATES SHALL BE PROVIDED FOR EACH CONTROL COMPONENT.
- 15. CABINET SHALL HAVE A 508 UL LABEL "INDUSTRIAL CONTROL PANEL" UL 508.
- 16. THE SERVICE CABINET SHALL BE SIMILAR IN DESIGN TO THE TESCO CLASS 27-100 SERVICE PEDESTAL.

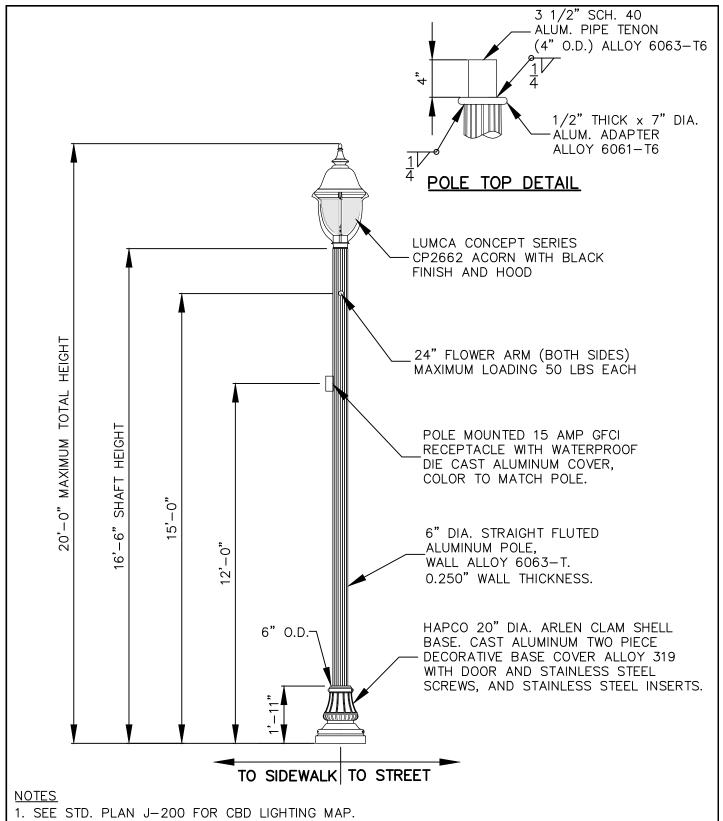






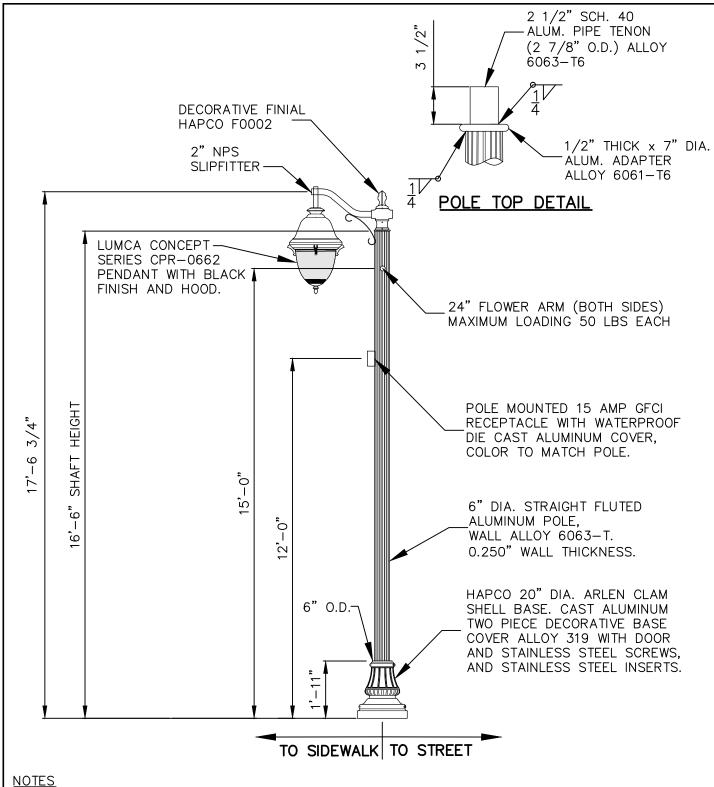






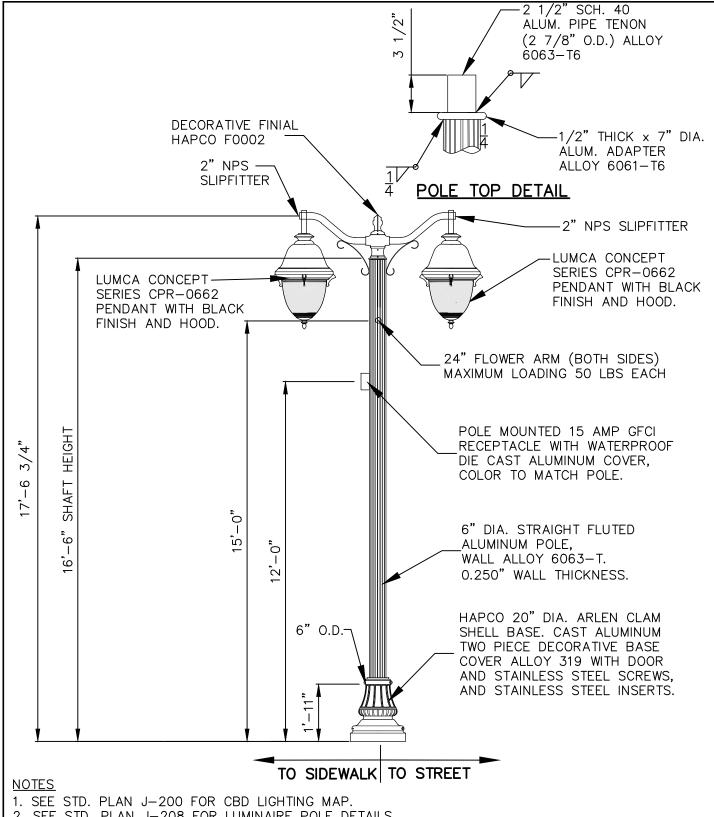
- 2. SEE STD. PLAN J-208 FOR LUMINAIRE POLE DETAILS.
- 3. FOR OPTIONAL IRRIGATION IN POLE, NO BARB FITTING WILL BE ALLOWED. SEE STANDARD PLAN J-211.
- 4. FUSE EACH LUMINAIRE IN BASE HAND HOLE WITH A 5-AMP GLR IN-LINE FUSE.
- 5. USE ANTI-SEIZE LUBRICANT ON ALL SCREWS AND INSERTS.

APPROVED BY	ADOPTED:	- 1 171 201111111111111111111111111111111
ENGINEER DAN BULLER, P.E.	CHECKED BY: ANM SCALE: NTS DWG/REV. BY: MDH	ENGINEERING SERVICES STANDARI PLAN No. J-201



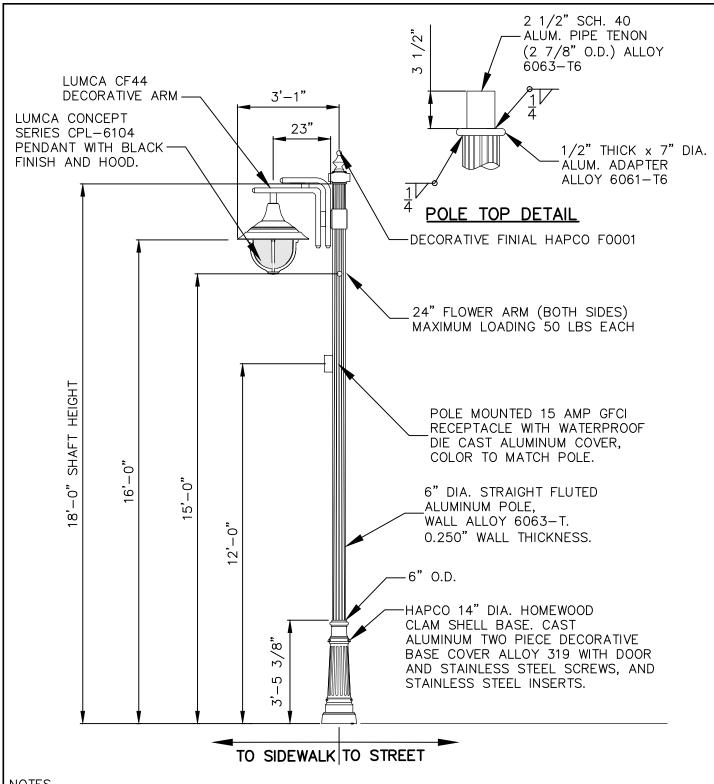
- 1. SEE STD. PLAN J-200 FOR CBD LIGHTING MAP.
- 2. SEE STD. PLAN J-208 FOR LUMINAIRE POLE DETAILS.
- 3. FOR OPTIONAL IRRIGATION IN POLE, NO BARB FITTING WILL BE ALLOWED. SEE STANDARD PLAN J-211.
- 4. FUSE EACH LUMINAIRE IN BASE HAND HOLE WITH A 5-AMP GLR IN-LINE FUSE.
- 5. USE ANTI-SEIZE LUBRICANT ON ALL SCREWS AND INSERTS.

APPROVED BY	ADOPTED:	1 15 20111111111111111111111111111111111
ENGINEER DAN BULLER, P.E.	CHECKED BY: ANM SCALE: NTS DWG/REV. BY: MDH	OLTY OF CHOKANE WACHINGTON



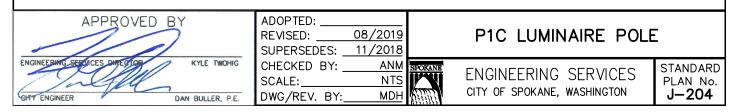
- 2. SEE STD. PLAN J-208 FOR LUMINAIRE POLE DETAILS.
- 3. FOR OPTIONAL IRRIGATION IN POLE, NO BARB FITTING WILL BE ALLOWED. SEE STANDARD PLAN J-211.
- 4. FUSE EACH LUMINAIRE IN BASE HAND HOLE WITH A 5-AMP GLR IN-LINE FUSE.
- 5. USE ANTI-SEIZE LUBRICANT ON ALL SCREWS AND INSERTS.

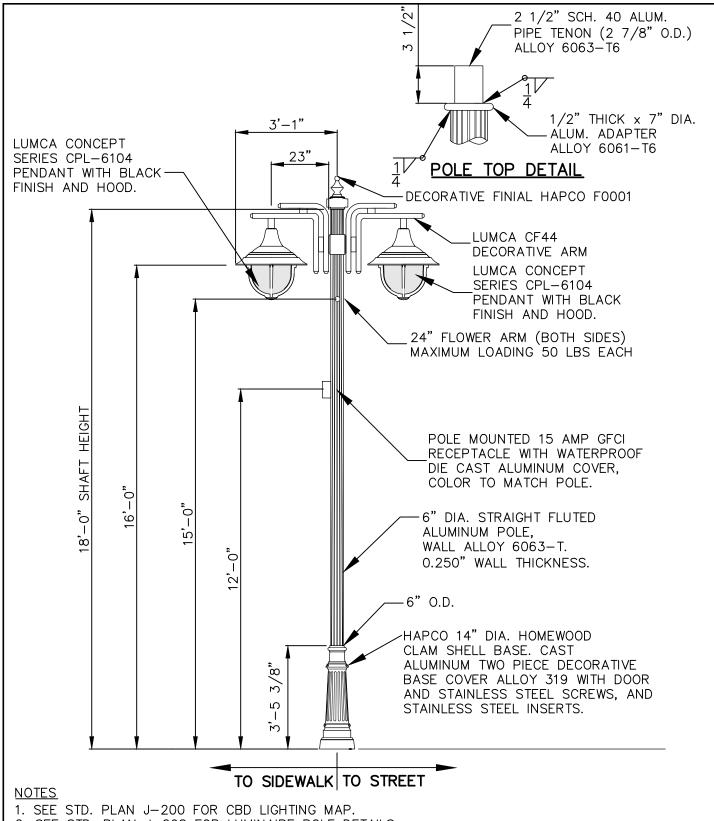
APPROVED BY	ADOPTED:	1 25 25 1111 17 111 12 1 522
ENGINEER DAN BULLER, P.E.	CHECKED BY: ANM SCALE: NTS DWG/REV. BY: MDH	OLTY OF CHOKANE WACHINGTON



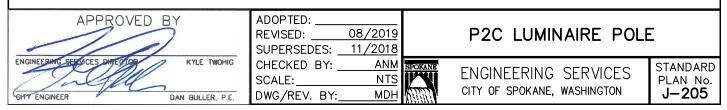
NOTES

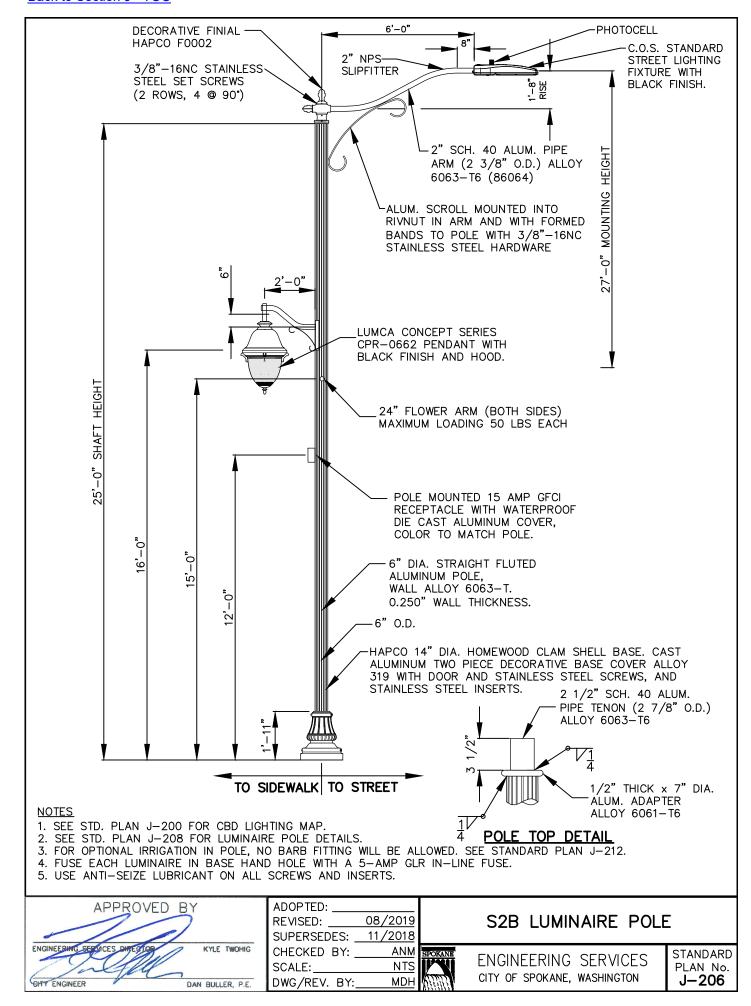
- 1. SEE STD. PLAN J-200 FOR CBD LIGHTING MAP.
- 2. SEE STD. PLAN J-208 FOR LUMINAIRE POLE DETAILS.
- 3. FOR OPTIONAL IRRIGATION IN POLE, NO BARB FITTING WILL BE ALLOWED. SEE STANDARD PLAN J-211.
- 4. FUSE EACH LUMINAIRE IN BASE HAND HOLE WITH A 5-AMP GLR IN-LINE FUSE.
- 5. USE ANTI-SEIZE LUBRICANT ON ALL SCREWS AND INSERTS.

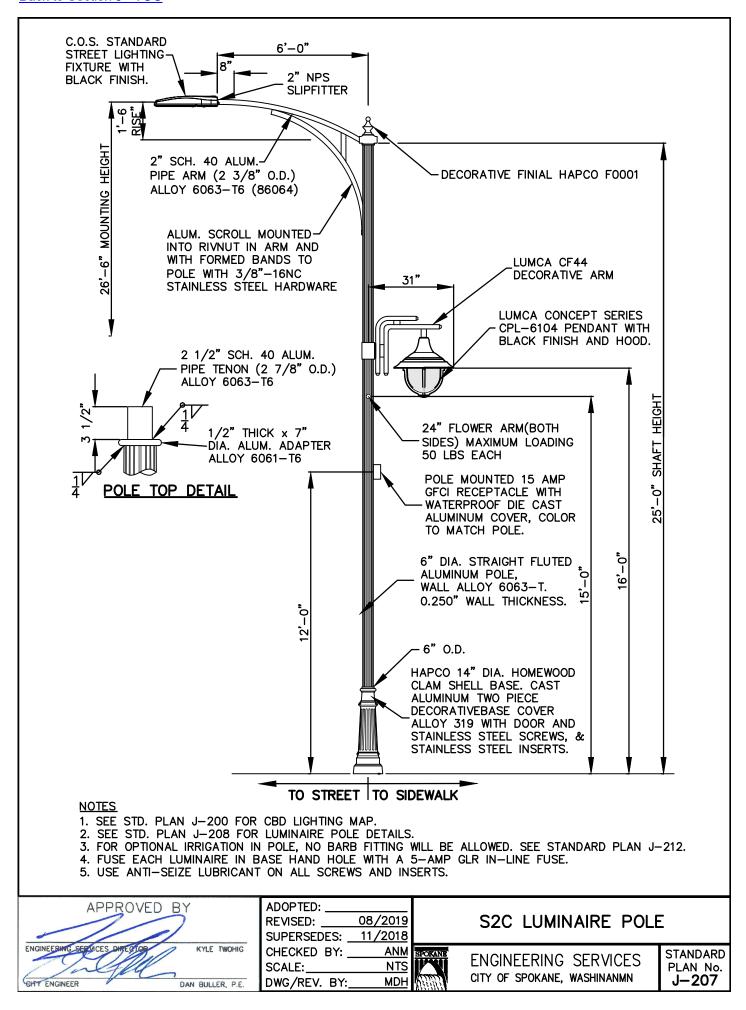


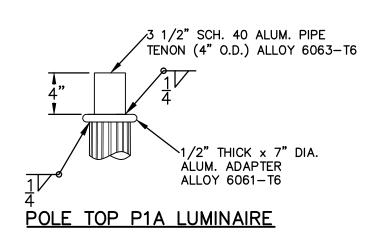


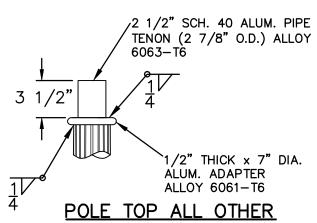
- 2. SEE STD. PLAN J-208 FOR LUMINAIRE POLE DETAILS.
- 3. FOR OPTIONAL IRRIGATION IN POLE, NO BARB FITTING WILL BE ALLOWED. SEE STANDARD PLAN J-211.
- 4. FUSE EACH LUMINAIRE IN BASE HAND HOLE WITH A 5-AMP GLR IN-LINE FUSE.
- 5. USE ANTI-SEIZE LUBRICANT ON ALL SCREWS AND INSERTS.

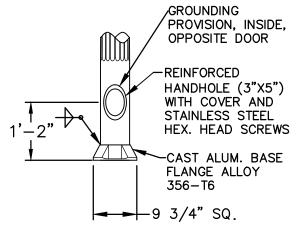




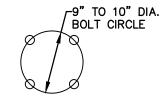




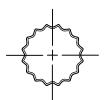




POLE BASE



BOLT CIRCLE



CROSS SECTION OF FLUTES

APPROVED BY

ENGINEERING OBSTATIONS MANAGER KYLE TWOHIG

CITY ENGINEER DANIEL ALBERT BULLER, P.E.

ADOPTED:	11/2018
REVISED:	
SUPERSEDES: _	
CHECKED BY: _	ANM
SCALE:	NTS
DWG/REV. BY:	MDH

LUMINAIRE POLE DETAILS



ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

