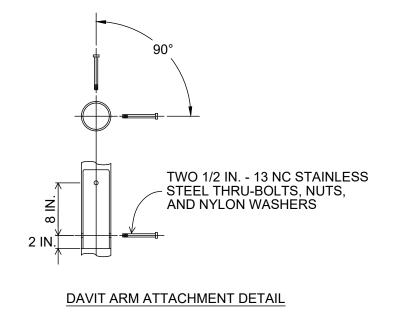


HAPCO RTA SERIES AND VALMONT RTA POLES MEET THIS STANDARD.



1/2-IN. - 13 NC STAINLESS STEEL BOLT WITH STAINLESS STEEL SPLIT WASHER AND STAINLESS STEEL FLAT WASHER

SECTION THROUGH HAND HOLE

### NOTES

- 1. POLE ASSEMBLIES SHALL MEET ALL STRENGTH REQUIREMENTS OF THE CURRENT EDITION OF AASHTO FOR 115 MPH ISOTACH WHEN USED WITH A LUMINAIRE WEIGHING 60 POUNDS WITH E.P.A. 1.5 SQUARE FEET.
- 2. 4043 FILLER WIRE SHAL BE USED FOR WELDING.
- 3. ONLY THE BASE FLANGE WELDS ARE HEAT-TREATED
- 4. BASE FLANGE SHALL ACCOMMODATE AND 11- TO 12-INCH BOLT CIRCLE.
- 5. SEE FOUNDATION DETAIL, SHEET 61 FOR ANCHOR BOLT INFORMATION.
- THE CITY MAY ACCEPT OTHER BEND RADII AND DAVIT ARM MOUNTING ANGLES.
- 7. THE HAND HOLE SHALL BE ROTATED 90 DEGREES FROM THE DAVIT ARM.

(NOT TO SCALE)

100% DESIGN CITY PROJECT #:



www.cityoffederalway.com

Federal Way, WA 98003-6325

Know what's below.
Call 811 before you dig.

DRAFTED: D. MCINTOSH

DESIGNED: K. DAVIS, P.E.

REVIEWED: R. PEREZ, P.E.

APPROVED: R. PEREZ, P.E.

RDA. PRO A. PRO
12/12/2023

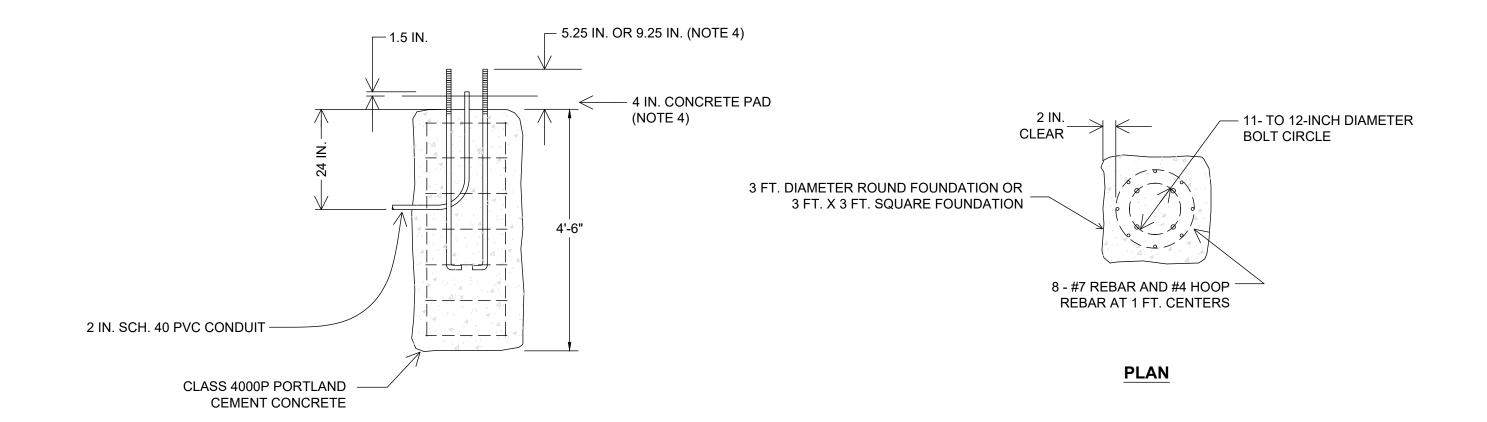
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STREET LIGHT INFILL

ILLUMINATION SYSTEM DETAILS
LIGHT STANDARD

sнт. 60 or 76

26775



### NOTES

- ANCHOR BOLTS FOR ALUMINUM LIGHT STANDARDS:
- SHALL MEET ASTM F1554 GRADE 55 AND BE HOT DIP GALVANIZED
- SHALL BE 36 IN. IN LENGTH AND INCLUDE A 4-IN. RIGHT HOOK AT THE UNTHREADED END
- THREAD SHALL BE 1-IN. 8NC FOR 12 IN.
- EACH ANCHOR BOLT SHALL INCLUDE:
- --- 2 HEAVY HEX NUTS IN ACCORDANCE WITH ASTM A563 GRADE A
- --- 2 FLAT WASHERS IN ACCORDANCE WITH ASTM F436
- 2. A GROUT PAD SHALL BE INSTALLED BETWEEN THE TOP OF FOUNDATION AND THE LIGHT STANDARD BASE PLATE. A WEEP HOLE SHALL BE INSTALLED IN THE GROUT PAD ON THE DOWNHILL SIDE OF THE FOUNDATION.

**ELEVATION** 

- ANCHOR BOLTS SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
- FOR ANY LOCATION WHERE A CONCRETE PAD (SHEET 63) IS NOT REQUIRED ON TOP OF THE FOUNDATION, THERE SHOULD BE 5.25 IN. OF ANCHOR BOLT EXPOSED AT TOP OF FOUNDATION. LOCATIONS WITH A CONCRETE PAD WILL REQUIRE 9.25 IN. OF ANCHOR BOLT EXPOSED AT TOP OF FOUNDATION.

CITY PROJECT DRAWING VERSION / REVISION LOG DRAFTED: D. MCINTOSH STREET LIGHT INFILL 26775 DESIGNED: K. DAVIS, P.E. SHT. 61 Centered on Opportunity **ILLUMINATION SYSTEM DETAILS** REVIEWED: R. PEREZ, P.E. (now what's below. Call 811 before you di 33325 8th Avenue South (253) 835-2700

GROUT PAD AND WEEP HOLE

(NOTE 2)

(NOT TO SCALE)

100% DESIGN

2 THREADS MIN., 1 IN. MAX.

LEVELING NUT AND WASHER

**NUT AND WASHER** 

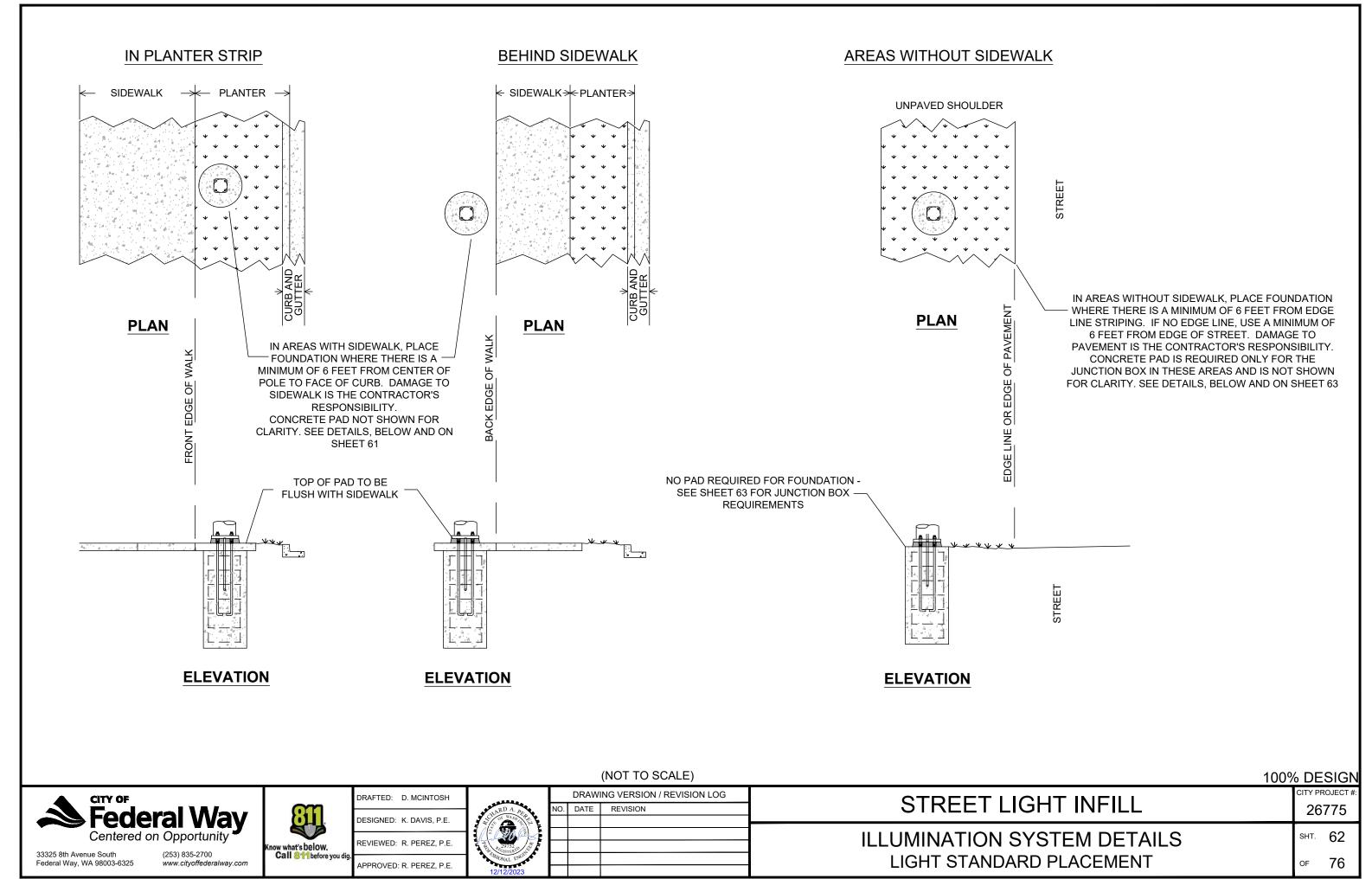
Federal Way, WA 98003-6325

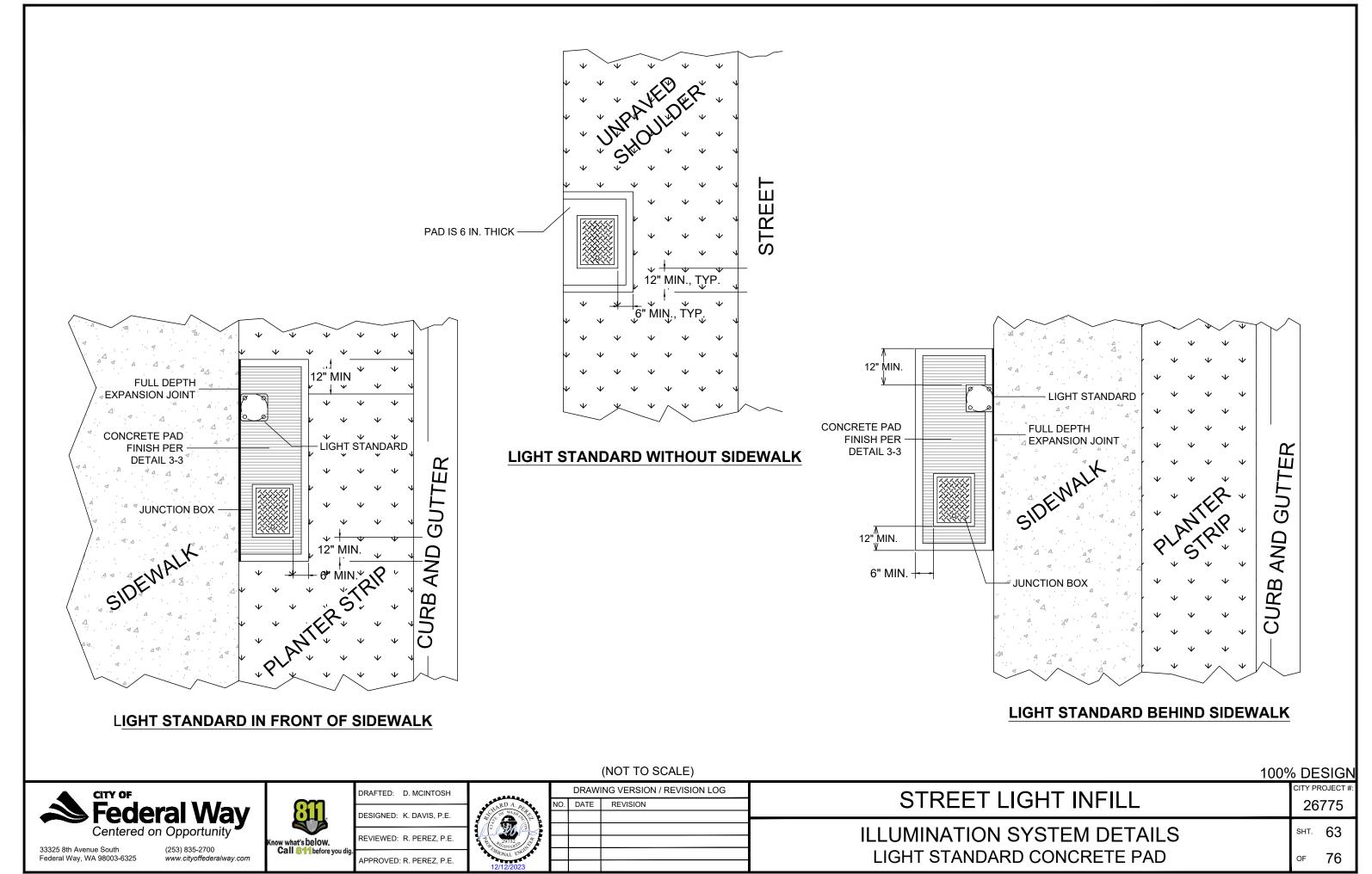


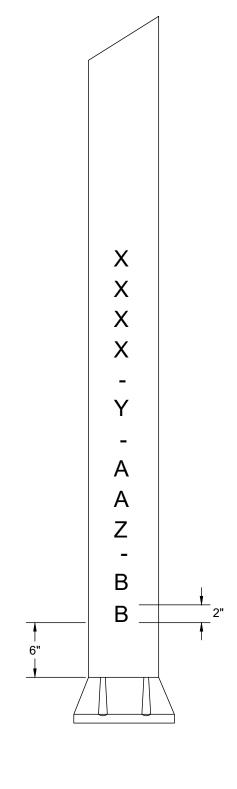
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**ANCHOR BOLT / NUT / WASHER** 

CONFIGURATION







### NOTES

ALL LIGHT STANDARDS AND SERVICE CABINETS INSTALLED BY THIS PROJECT SHALL BE MARKED/IDENTIFIED IN ACCORDANCE WITH THIS DETAIL.

XXXX = SERVICE CABINET LOCATION NUMBER BASED UPON A CITY-DEFINED **COORDINATE SYSTEM - SEE PLANS** 

Y = THE SERVICE NUMBER, TYPICALLY 1 - SEE PLANS

AAZ = CIRCUIT NUMBER, TYPICALLY SL1, SL2, OR SL3 - SEE PLANS

BB = POLE NUMBER WITHIN CIRCUIT - SEE PLANS

LEADING ZEROS SHALL BE OMITTED.

PAINT SHALL BE BLACK ALKYD GLOSS CONFORMING TO FEDERAL SPECIFICATION TT-E-489.

### **FOR LIGHT STANDARDS:**

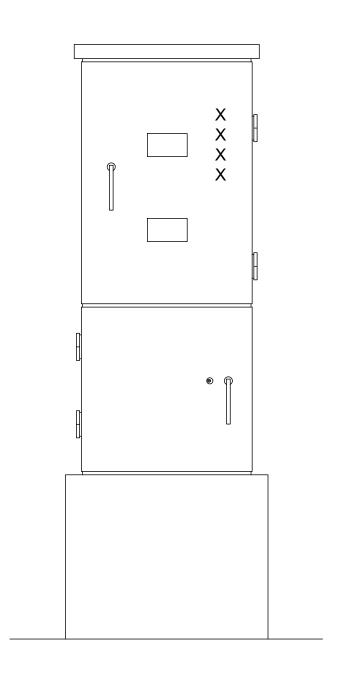
ALL NUMBERS/LETTERS SHALL BE 2 INCHES HIGH WITH 2-INCH VERTICAL SPACING.

ALL NUMBERS/LETTERS SHALL BE PAINTED ON THE POLE FACE NEAREST THE STREET.

### FOR SERVICE CABINETS:

ALL NUMBERS SHALL BE 1-INCH HIGH WITH 0.5-INCH VERTICAL SPACING.

ALL NUMBERS SHALL BE PAINTED ON THE METER DOOR OF THE SERVICE CABINET.



(NOT TO SCALE)

100% DESIGN

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SHT. 64

of **76** 

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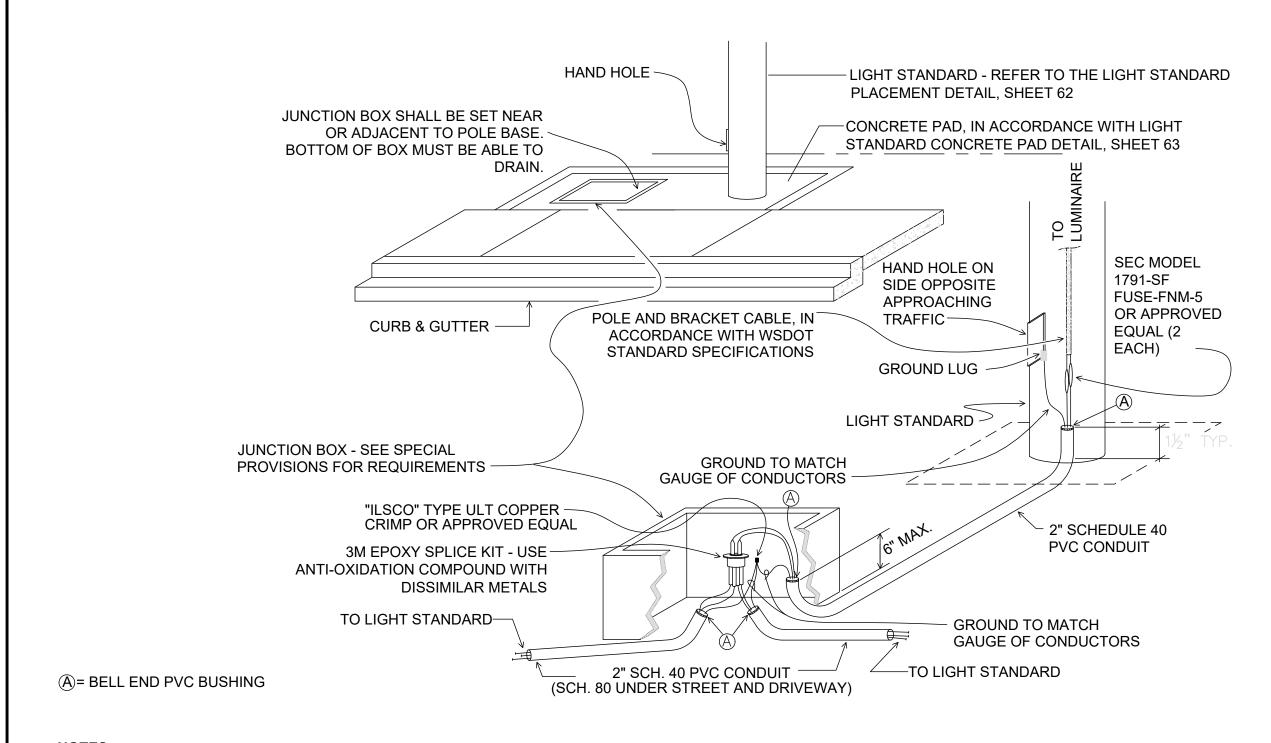


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, P.E.	ROSTERED STREET
, P.E.	12/12/2023

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# STREET LIGHT INFILL

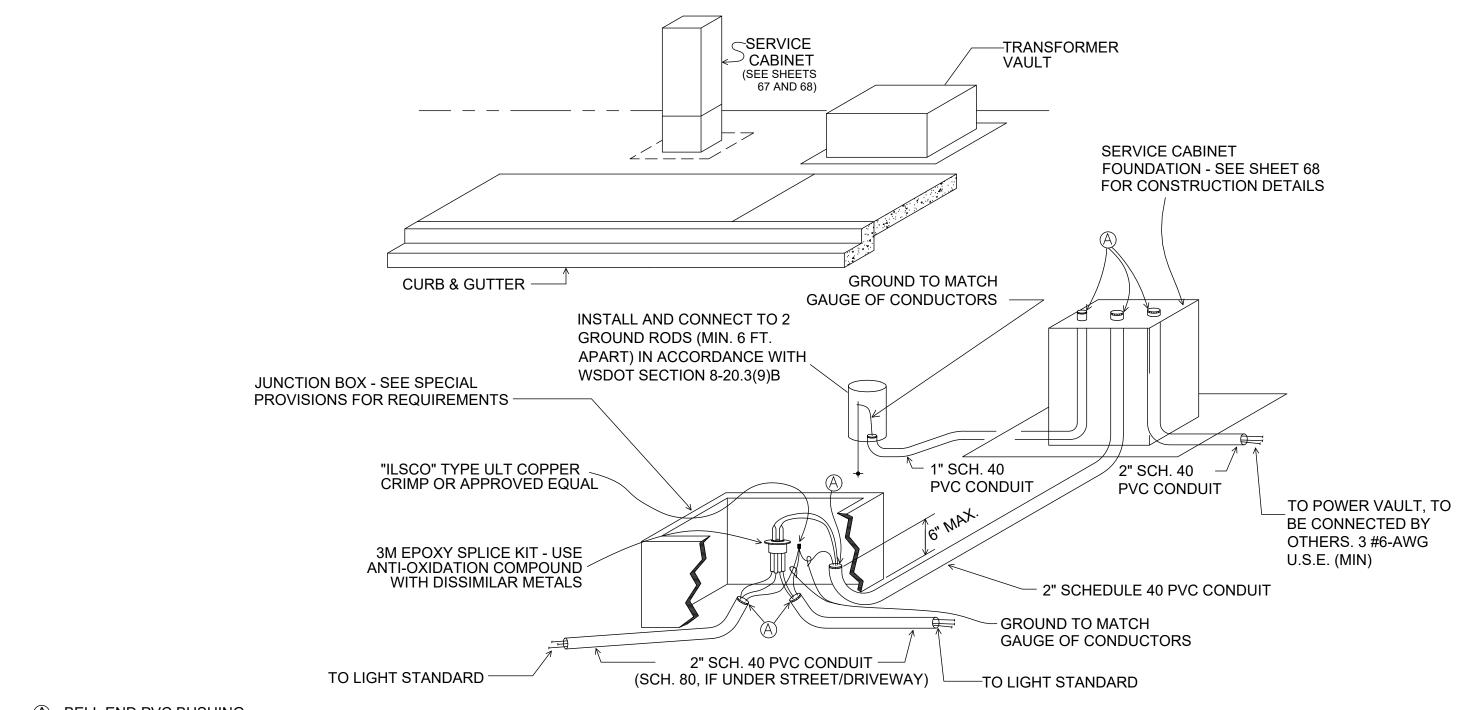
**ILLUMINATION SYSTEM DETAILS** LIGHT STANDARD AND SERVICE CABINET NUMBERING



### **NOTES**

- 1) JUNCTION BOX LID TO BE WELDED SHUT AFTER FINAL INSPECTION WITH TWO 1-INCH LONG WELDS AT OPPOSITE CORNERS.
- 2) EXCEPT AS NOTED, ALL WIRING METHODS SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS

(NOT TO SCALE) 100% DESIGN DRAWING VERSION / REVISION LOG DRAFTED: D. MCINTOSH STREET LIGHT INFILL REVISION 26775 DESIGNED: K. DAVIS, P.E. SHT. 65 Centered on Opportunity **ILLUMINATION SYSTEM DETAILS** REVIEWED: R. PEREZ, P.E. (now what's below. Call 811 before you di (253) 835-2700 33325 8th Avenue South LIGHT STANDARD WIRING 76 Federal Way, WA 98003-6325 APPROVED: R. PEREZ, P.E.



(A)= BELL END PVC BUSHING

### **NOTES**

33325 8th Avenue South

Federal Way, WA 98003-6325

- JUNCTION BOX LID TO BE WELDED SHUT AFTER FINAL INSPECTION WITH TWO 1-INCH LONG WELDS AT OPPOSITE CORNERS.
- EXCEPT AS NOTED, ALL WIRING METHODS SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS

Centered on Opportunity

(253) 835-2700

(now what's below. Call 811 before you di

DRAFTED: D. MCINTOSH DESIGNED: K DAVIS P.E. REVIEWED: R. PEREZ, P.E. APPROVED: R. PEREZ, P.E.

RD A III PAR STANDARD
12/12/2023

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100% DESIGN STREET LIGHT INFILL

**ILLUMINATION SYSTEM DETAILS** SERVICE CABINET WIRING

76

26775

SHT. 66

### CONTRACTOR TO VERIFY REQUIREMENTS AND ACCEPTABILITY WITH SERVING UTILITY

### **COMPONENT SCHEDULE**

METERBASE: 100 AMP, 4 JAW, B-LINE U264 BY-PASS TYPE, 5TH JAW AT 9:00 POSITION THE CONTRACTOR SHALL VERIFY THE SERVING UTILITY'S REQUIREMENTS PRIOR TO FABRICATION AND INSTALLATION OF THE SERVICE EQUIPMENT.

PANELBOARD: 120/240 VAC, 100-AMP, 1-PHASE, 3-WIRE, COPPER BUS **EATON BAB BOLT-ON BREAKERS:** 

1-100/2 MAIN

3-15/2 ILLUMINATION BRANCH

1-50/1 SIGNAL BRANCH

1-20/1 GROUND FAULT RECEPTACLE BRANCH

1-15/1 CONTROL CKT BRANCH

CONTACTOR: LIGHTING RATED, 2-POLE, 120 VAC COIL, 3 REQUIRED (OR IN ACCORDANCE WITH THE PLAN REQUIREMENTS - WHICHEVER IS GREATER)

TERMINAL BLOCK. THREE-POINT FOR REMOTE PHOTOCELL

PHOTOCELL BYPASS SWITCH, SPST, 15 AMP, 277 VAC

GROUND FAULT RECEPTACLE, 120 VAC, DUPLEX, 20A

THE METER DOOR IS REMOVABLE AND SHALL BE HINGED ON THE RIGHT SIDE

CABINET: NEMA 3R, PADMOUNT, 1/8TH INCH ALUMINUM CONSTRUCTION, TYPE 5052-H32

2 SCREENED AND GASKETED VENTS

DOORS: HEAVY DUTY WELDED HINGES (LIFT-OFF TYPE), OPENS TO THE RIGHT STAINLESS STEEL VAULT HANDLES, PADLOCKABLE METER DOOR

POLISHED WIRE GLASS WINDOW IN METER DOOR

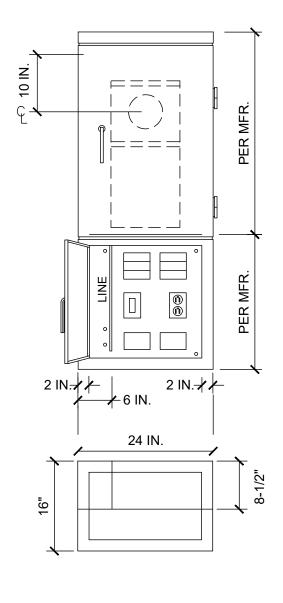
BEST CX LOCK (BLUE CORE) ON DISTRIBUTION DOOR, OPENS TO THE LEFT

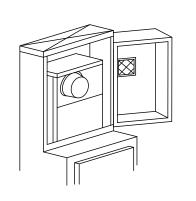
CLOSED CELL NEOPRENE GASKET, CARD HOLDER

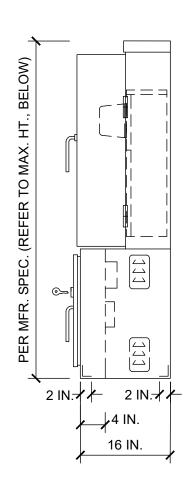
FINISH: BARE ALUMINUM (MILL FINISH) OUTSIDE, WHITE INSIDE

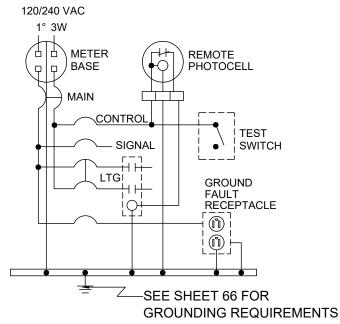
WIRED AND LABELED IN ACCORDANCE WITH UL STANDARD #508A, SUITABLE FOR USE AS A SERVICE ENTRANCE.

SHALL MEET EUSERC SPECIFICATIONS.









**WIRING DIAGRAM** 

(NOT TO SCALE)

100% DESIGN



33325 8th Avenue South Federal Way, WA 98003-6325 (253) 835-2700



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12/12/2023	-

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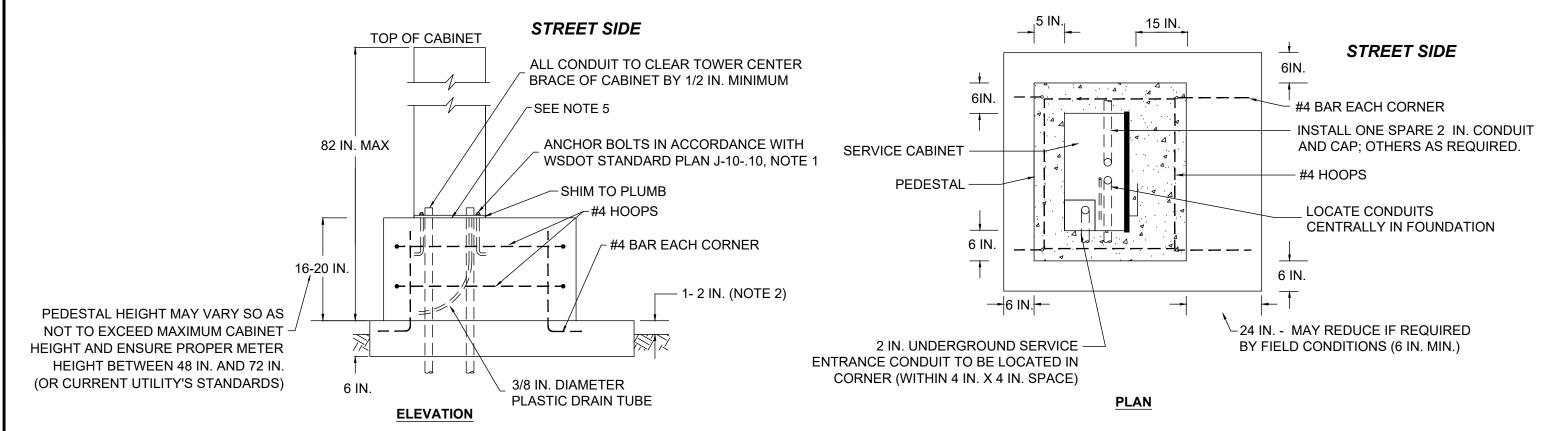
STREET LIGHT INFILL

**ILLUMINATION SYSTEM DETAILS** SERVICE CABINET

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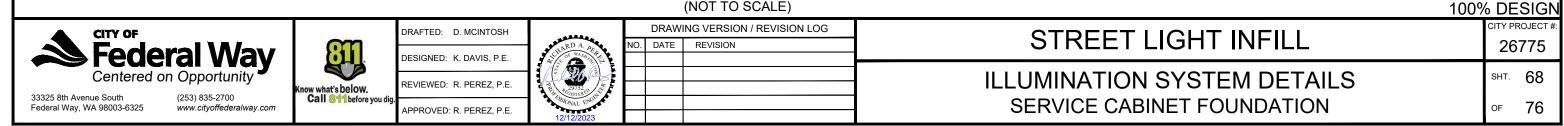
Official bid documents, plan holder's list, and addenda (if applicable) are available on BXWA.com



### **SERVICE CABINET FOUNDATION DETAIL**

### **NOTES**

- FOUNDATION SHALL BE CONSTRUCTED WITH CLASS 3000 CONCRETE UNLESS OTHERWISE NOTED IN THE PLANS.
- 2. WHERE FOUNDATION IS LOCATED IN OR ADJACENT TO SIDEWALK, TOP OF BASE PAD SHALL BE FLUSH WITH TOP OF SIDEWALK, AND OMIT CHAMFER WHERE PAD AND SIDEWALK MEET. FACE OF PEDESTAL SHALL BE A MINIMUM OF 6 INCHES FROM SIDEWALK.
- 3. FOUNDATION SHALL BE LOCATED A MINIMUM OF 6 FEET FROM THE NEAREST STREET EDGE LINE, EDGE OF PAVEMENT, OR FACE OF CURB. FOUNDATION AND CABINET SHALL BE LOCATED SUCH THAT THEY WILL NOT INTERFERE WITH SIGHT DISTANCE, SIGN VISIBILITY, OR USPS ACCESS.
- 4. FOUNDATION, INCLUDING PEDESTAL, IS TYPICAL. CONTRACTOR SHALL USE CABINET MANUFACTURER'S SPECIFICATIONS TO ASSURE PROPER FIT OF CABINET ON BASE WITH RESPECT TO CONDUIT PLACEMENT. CONTRACTOR SHALL SUBMIT FOR APPROVAL A PROPOSED DESIGN WITH PLAN, ELEVATION, AND RELEVANT SECTION VIEWS.
- PLACE SILICONE SEAL BETWEEN THE CABINET AND CABINET FOUNDATION.
- 6. ORIENT FACE OF CABINET DOORS TOWARD THE STREET SIDE.
- CONTRACTOR SHALL COORDINATE WITH POWER COMPANY REGARDING SERVICE CONNECTION.
- 8. CONTRACTOR SHALL OBTAIN AN ELECTRICAL PERMIT FROM THE CITY BUILDING DEPARTMENT.
- 9. WHEN SIGNAL CABINET, SERVICE CABINET, OR UPS/BBS AUXILIARY CABINET ARE INSTALLED NEXT TO EACH OTHER, REFER TO CITY OF FEDERAL WAY DRAWING NUMBER 3-45C FOR FOUNDATION DETAIL. METER DOOR MUST OPEN 180 DEGREES.
- 10. PUGET SOUND ENERGY OR OTHER FRANCHISE UTILITY POWER PROVIDER'S STANDARDS MAY CHANGE PERIODICALLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CABINET MEETS THOSE STANDARDS.



MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH	Posted Speed (mph)									
(feet)	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	1	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

N	MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)									
Posted Speed (mph)										
25	30	35	40	45	50	55	60	65	70	
40	40	60	90	120	130	150	160	170	190	Ī

150 | 170 | 190 | 200 | 220 | 240

WORK AHEAD

W20-1

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.
--

90

90

SHOULDER WIDTH

(feet)

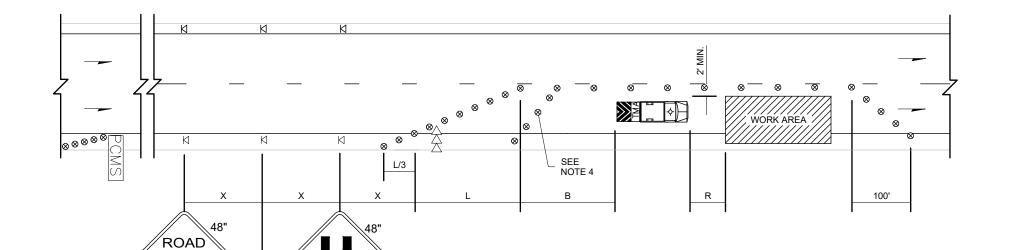
10'

SIGN SPACING = X (1)									
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500'							
RURAL HIGHWAYS	60 / 65 MPH	800'							
RURAL ROADS	45 / 55 MPH	500'							
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'							
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)							
RESIDENTIAL & BUSINESS DISTRICTS									
URBAN STREETS	25 MPH OR LESS	100' (2)							
(1) ALL SPACING MAY BE AD ILISTED TO A	CCOMMODATE INTER	CHANGE							

- RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
- (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)										
MPH TAPER TANGENT										
50/70	40	80								
35/45	30	60								
25/30	20	40								

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
25 30 35 40 45 50 55 60 65 70										70
LENGTH (feet) 155 200 250 305 360 425 495 570 645 73							730			
BUF	BUFFER VEHICLE ROLL AHEAD DISTANCE = R									
TRANSPORTABLE ATTENUATOR							30	) FEET I	MIN.	
MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.							100	TO FEET	MAX.	



PCMS									
1	2								
RIGHT LANE CLOSURE	1 MILE AHEAD								
2.0 SEC	2.0 SEC								

FIELD LOCATE 1 MILE IN ADVANCE OF LANE CLOSURE SIGNING.

- 1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 2. EXTEND DEVICE TAPER AT L/3 ACROSS SHOULDER.
- 3. DEVICES SHALL NOT ENCROACH INTO THE ADJACENT LANE.
- 4. USE TRANSVERSE DEVICES IN CLOSED LANE EVERY 1000' (FT) (RECOMMENDED).
- 5. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE
- 6. ALL SIGNS ARE BLACK ON ORANGE

(NOT TO SCALE)

∕RIGHT LANÈ

CLOSED

AHEAD/

W20-5R

DRAFTED: D. MCINTOSH

DESIGNED: K. DAVIS, P.E.

REVIEWED: R. PEREZ, P.E.

APPROVED: R. PEREZ, P.E.

W4-2(L)

Centered on Opportunity

LEGEND

**TEMPORARY SIGN LOCATION** 

TRAFFIC SAFETY DRUM

TRANSPORTABLE ATTENUATOR

**SEQUENTIAL ARROW SIGN** 

PORTABLE CHANGEABLE MESSAGE SIGN

33325 8th Avenue South Federal Way, WA 98003-6325 (253) 835-2700 www.cityoffederalway.com



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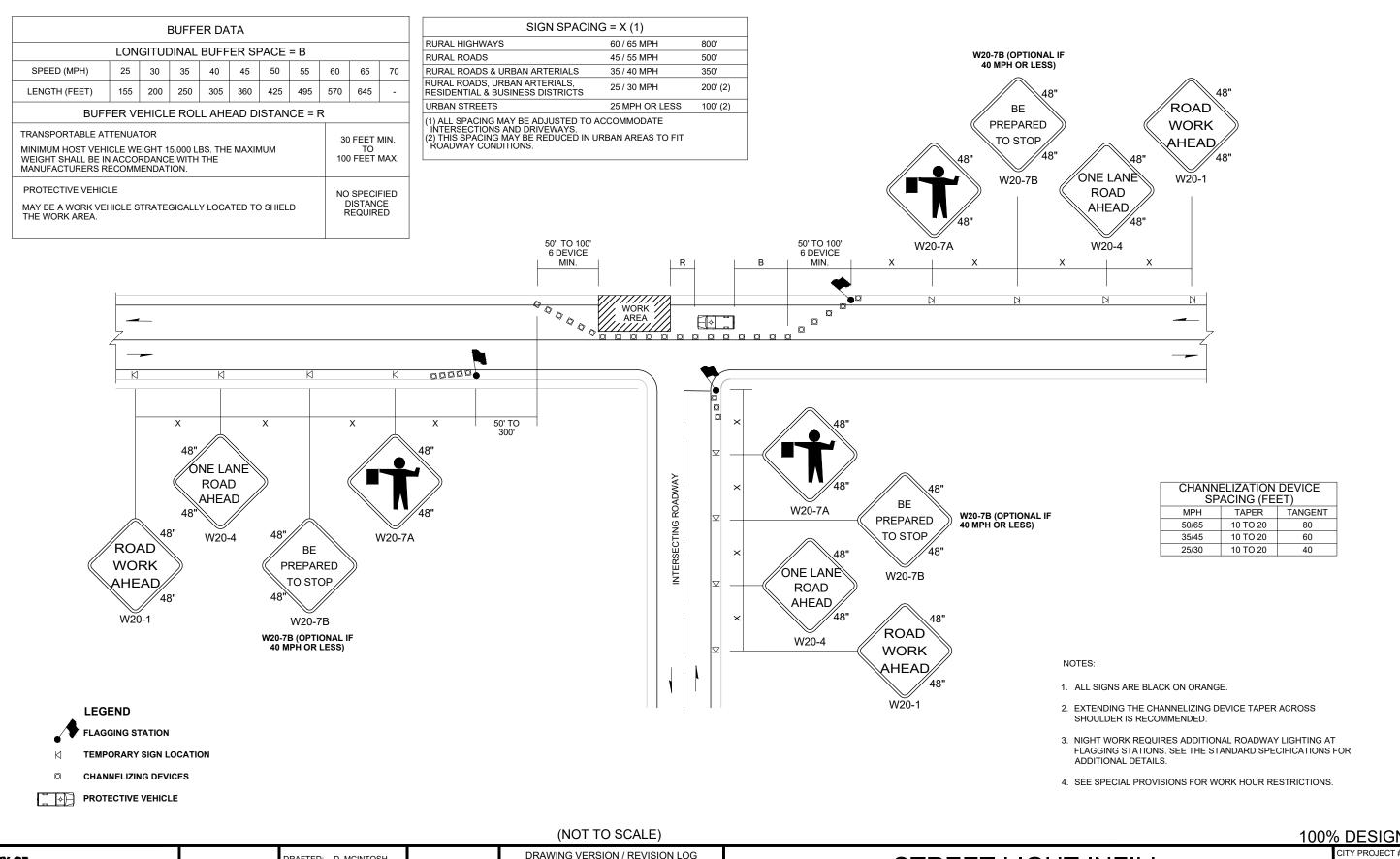
## STREET LIGHT INFILL

TRAFFIC CONTROL PLANS SINGLE-LANE CLOSURE FOR MULTI-LANE ROADWAYS

100% DESIGN 26775

SHT. 69

of **76** 





DRAFTED: D. MCINTOSH DESIGNED: K DAVIS P.E. REVIEWED: R. PEREZ, P.E. APPROVED: R. PEREZ, P.E.

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STREET LIGHT INFILL

TRAFFIC CONTROL PLANS ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS

SHT. 70 76

26775

SIGN SPACING = X (1)								
RURAL ROADS & URBAN ARTERIALS 35 / 40 MPH 350'								
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' (2)						
URBAN STREETS	25 MPH OR LESS	100' (2)						
(1) ALL SPACING MAY BE AD JUSTED TO ACCOMMODATE								

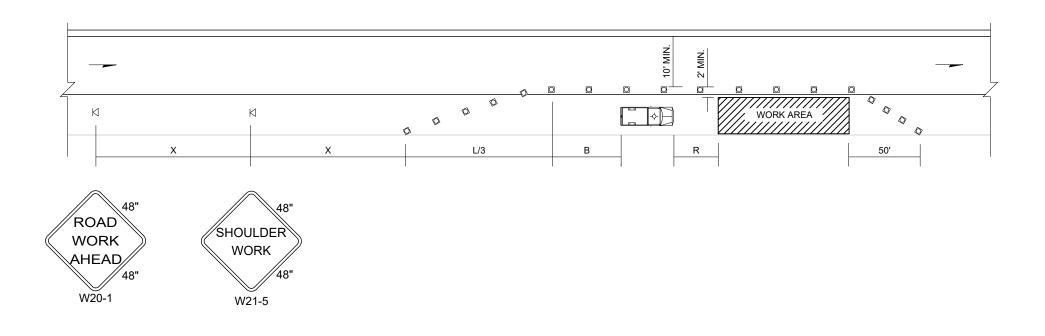
INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT

ROADWAY CONDITIONS.

	MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)									
SHOULDER Posted Speed (mph)										
(feet)	25	30	35	40	45	50	55	60	65	70
8'	40	40	60	90	-	-	-	-	-	-
10'	40	60	90	90	-	-	-	-	-	-
	USE A 3 DEVICES TAPER FOR SHOULDERS LESS THEN 8'									

CHANNELIZATION DEVICE SPACING (feet)								
MPH TAPER TANGENT								
35/40	30	60						
25/30 20 40								

BUFFER DATA										
	LONGITUDINAL BUFFER SPACE = B									
SPEED (MPH)	PEED (MPH) 25 30 35 40 45 50 55 60 65									70
LENGTH (feet)	155	200	250	305						
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR  MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM  WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.  30 FEET MIN. 100 FEET MAX.										
PROTECTIVE VEHICLE  MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.						[	SPECI DISTANO REQUIR	CE		



LEGEND

TEMPORARY SIGN LOCATION

CHANNELIZING DEVICES

PROTECTIVE VEHICLE

40 MPH OR LESS

- 1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
- 2. ALL SIGNS ARE BLACK ON ORANGE.

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DRAFTED: D. MCINTOSH DESIGNED: K. DAVIS, P.E. REVIEWED: R. PEREZ, P.E.

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(NOT TO SCALE)

STREET LIGHT INFILL

TRAFFIC CONTROL PLANS SHOULDER CLOSURE - LOW SPEED

26775 SHT. **71** 

of **76** 

100% DESIGN

SIGN SPACING = X (1)							
RURAL ROADS	45 / 55 MPH	500'					
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'					
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	200' (2)					
RESIDENTAL & BUSINESS DISTREICTS							
URBAN STREETS	25 MPH OR LESS	100' (2)					

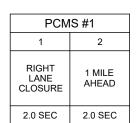
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

	MINIMUM TAPER LENGTH = L (feet)									
LANE Posted S				sted Sp	eed (m	ph)				
WIDTH (feet)	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	-	-	-	-
11	115	165	225	295	495	550	-	-	-	-
12	125	180	245	320	540	600	-	-	-	-

CHANNELIZATION DEVICE SPACING (feet)							
MPH TAPER TANGENT							
40	80						
35/45 30							
25/30 20 40							
	PACING (fee TAPER 40 30						

		ROAD WORK
		AHEAD/48"
	24" KEEP	48" W20-1 CENTER LANE CLOSED
	RIGHT 30"	AHEAD 48"
L/2 TAPER		W20-5C  L/2
		A A Q Q Q Q
X	B R L/2	
48"		

BUFFER DATA										
	LON	GITUE	DINAL	BUFF	ER SF	PACE	= B			
SPEED (MPH)         25         30         35         40         45         50         55								60	65	70
LENGTH (feet)	155	200	250	305	360	425		-	-	-
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR  MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.  30 FEET MIN. TO 100 FEET MAX.										
PROTECTIVE VEHICLE  MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD						[	SPECI DISTANO REQUIR	CE		



FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

PCMS #2						
1	2					
CENTER LANE CLOSED	NNO LEFT TURNING					
2.0 SEC	2.0 SEC					

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

### **LEGEND**

AHEAD

W20-1

PROTECTIVE VEHICLE

- ☐ CHANNELIZING DEVICES
- SEQUENTIAL ARROW SIGN
- .
  - PORTABLE CHANGEABLE MESSAGE SIGN
  - ▼ TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)

RIGHT LANE CLOSED AHEAD

W20-5R

W4-2(L)

### NOTES:

- 1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 2. RECOMMEND EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- 3. FOR POSTED SPEED LIMITS OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- 4. ALL SIGNS ARE BLACK ON ORANGE UNSLESS OTHERWISE DESIGNATED.

(NOT TO SCALE)

### 100% DESIGN



Centered on Opportunity

33325 8th Avenue South
Federal Way, WA 98003-6325

(253) 835-2700
www.cityoffederalway.com



DRAFTED: D. MCINTOSH	
DESIGNED: K. DAVIS, P.E.	
REVIEWED: R. PEREZ, P.E.	THOUGH
APPROVED: R. PEREZ, P.E.	1

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12/12/2023

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### STREET LIGHT INFILL

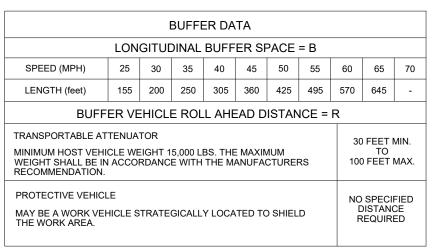
TRAFFIC CONTROL PLANS
RIGHT LANE CLOSURE WITH SHIFT - FIVE-LANE ROADWAY

26775 SHT. 72

76

CITY PROJECT #

PLAN CENTER COPY \*\*\* Official bid documents, plan holder's list, and addenda (if applicable) are available on BXWA.com



SIGN SPACIN	IG = X (1)	
RURAL HIGHWAYS	60 / 65 MPH	800'
RURAL ROADS	45 / 55 MPH	500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350'
RURAL ROADS & URBAN ARTERIALS RESIDENTAL & BUSINESS DISTREICTS	25 / 30 MPH	200' (2)
URBAN STREETS	25 MPH OR LESS	100' (2)
(1) ALL SPACING MAY BE ADJUSTED TO A RAMPS, AT-GRADE INTERSECTIONS AN (2) THIS SPACING MAY BE REDUCED IN LEGISLATION OF THE ROADWAY CONDITIONS	D DRIVEWAYS.	CHANGE

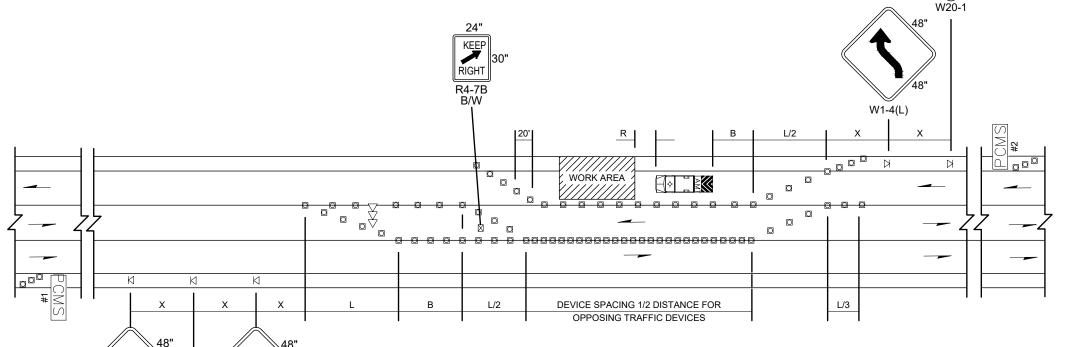
MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH	Posted Speed (mph)									
(feet)	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	-
						l .				

ROAD

**WORK** 

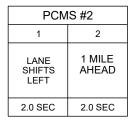
AHEAD

CHANNELIZATION DEVICE SPACING (feet)			
MPH	TAPER	TANGENT	
50/60	40	80	
35/45	30	60	
25/30	20	40	



PCM	S #1
1	2
LEFT LANE CLOSURE	1 MILE AHEAD
2.0 SEC	2.0 SEC

FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.



FIELD LOCATE IN ADVANCE OF TEMPORARY SIGNS.

### NOTES

- 1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 2. FOR SPEED LIMIT OF 30 MPH OR LESS, USE SIGN W1-3 IN LIEU OF SIGN W1-4.
- 3. RECOMMENDED EXTENDING DEVICE TAPER (L/3) ACROSS SHOULDER.
- **4.** ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

(NOT TO SCALE)

Federal Way
Centered on Opportunity

33325 8th Avenue South (253) 835-2700
Federal Way, WA 98003-6325 www.cityoffederalway.com

**LEGEND** 

TEMPORARY SIGN LOCATION

**CHANNELIZING DEVICES** 

**SEQUENTIAL ARROW SIGN** 

TRANSPORTABLE ATTENUATOR

PORTABLE CHANGEABLE MESSAGE SIGN

TEMPORARY SIGN LOCATION (5' MOUNTING HEIGHT)



ÆEFT LANÈ∖ CLOSED

AHEAD

W20-5L

ROAD WORK AHEAD

W20-1

DRAFTED: D. MCINTOSH

DESIGNED: K. DAVIS, P.E.

REVIEWED: R. PEREZ, P.E.

APPROVED: R. PEREZ, P.E.

W4-2R



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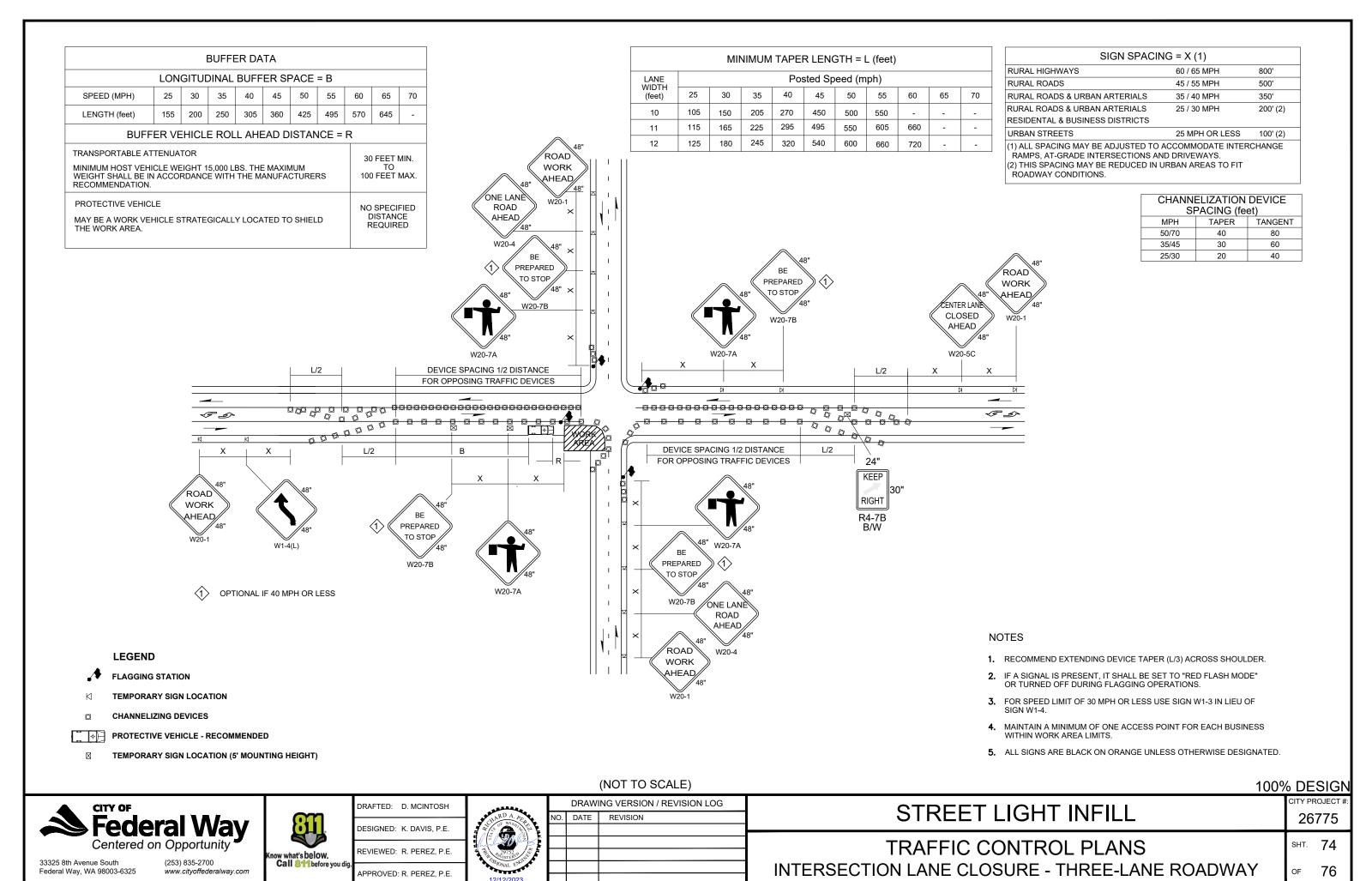
TRAFFIC CONTROL PLANS
LANE SHIFT - THREE-LANE ROADWAY

CITY PROJECT #: 26775

SHT. **73** 

100% DESIGN

of **76** 





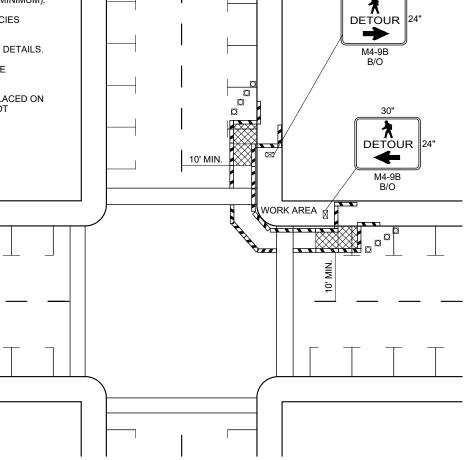
R8-3 24" x 30" R/W

INSTALL ON TYPE 2 BARRICADES THROUGHOUT THE WORK AREA 24 HOURS PRIOR TO IMPLEMENTING TRAFFIC CONTROL PRIOR NOTIFICATION OF LOCAL LAW ENFORCEMENT REQUIRED.

30"

### NOTES

- 1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
- 2. A 60" PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
- 3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
- **4.** SEE SHEET TC-52 FOR TEMPORARY PEDESTRIAN RAMP DETAILS.
- 5. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED. SEE STANDARD SPECIFICATION 1-10.2(1)B.
- **6.** TEMPORARY PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ON THE DIVERTED PATH WHEN EXISTING BUTTONS ARE NOT ACCESSIBLE TO PEDESTRIANS.



SIDEWALK DIVERSION

# SIDEWALK CLOSED AHEAD CROSS HERE R9-11 24" x 12" B/W R9-11 24" x 12" R9-10 24" x 12" B/W 24" x 12" B/W B/W SIDEWALK CROSS HERE SIDEWALK CLOSED CLOSED USE OTHER SIDE SIDEWALK CLOSED 24" x 12" SIDEWALK DETOUR

### **LEGEND**

- TEMPORARY SIGN LOCATION
- **CHANNELIZING DEVICES**
- PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

(NOT TO SCALE)

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26775

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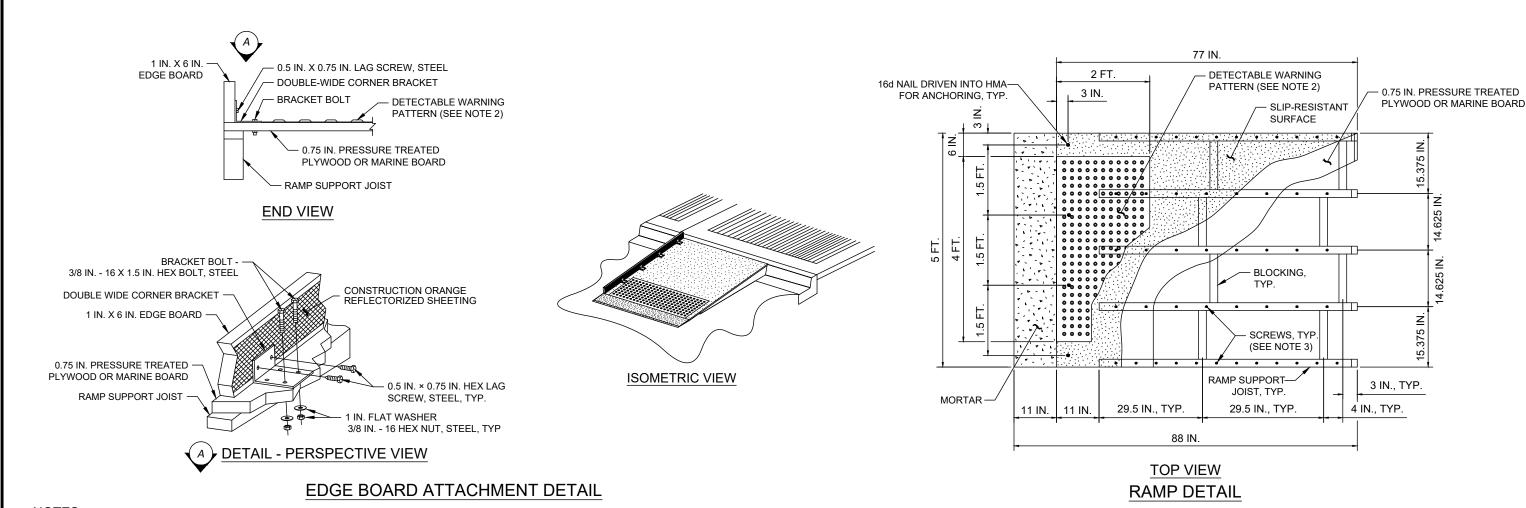


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TRAFFIC CONTROL PLANS INTERSECTION PEDESTRIAN TRAFFIC CONTROL



### NOTES:

- 1) THIS DESIGN ASSUMES OPTIMAL CONDITIONS AND A STANDARD CURB HEIGHT OF 6 INCHES. INSTALLED RAMPS SHALL BE NO STEEPER THAN 12H: 1V, AND SHALL HAVE A CROSS-SLOPE OF 2% OR LESS. USE SHIMS OR GROUT AS REQUIRED TO ADJUST FOR EXISTING CONDITIONS AND TO PREVENT ROCKING. SHIMS SHALL BE NO HIGHER THAN 1-INCH, AND SHALL BE SECURED TO THE RAMP. FOR CURBS SHORTER THAN 6 INCHES, INSTALL A RAMP ON THE SIDEWALK, NO STEEPER THAN 12H: 1V, MADE OF GROUT OR AS APPROVED BY THE ENGINEER. ADJUSTMENTS TO THE RAMP DIMENSIONS SHOWN MAY BE REQUIRED TO MATCH EXISTING CONDITIONS.
- 2) THE DETECTABLE WARNING PATTERN SHALL BE INSTALLED ONLY WHEN THE INTENT IS TO GUIDE PEDESTRIANS DIRECTLY ACROSS THE ROADWAY (CROSSWALK). SEE WSDOT STANDARD PLAN F-45.10 AND STANDARD DRAWING PC.F8.4 FOR DETAILS.
- SCREWS SHALL BE USED TO SECURE THE RAMP SURFACE. SPACING SHALL BE IN ACCORDANCE WITH THE CURRENT BUILDING CODE.
- 4) USE A SLIP-RESISTANT TREATMENT FOR THE SURFACE OF RAMP.
- ALL FASTENERS SHALL BE GALVANIZED.

www.cityoffederalway.com

6) DO NOT INSTALL A HAND RAILING IF USING THE EDGE BOARD OPTION.

#### - CONSTRUCTION ORANGE REFLECTORIZED SHEETING DOUBLE WIDE CORNER BRACKET, TYP. 77 IN. 6 IN. 18 IN. DETECTABLE WARNING 18 IN. 0.75 IN. PATTERN (SEE NOTE 2) 17 IN. 90 DEGREES, 1 IN. X 6 IN. EDGE BOARD 16d NAIL DRIVEN INTO HMA FOR ANCHORING 0.75 IN. MORTAR 5 25 IN RAMP -SUPPORT JOIST BLOCKING, TYP. 1.5 IN. TREATED PLYWOOD 65.5 IN. OR MARINE BOARD 11 IN. | 11 IN. SIDE VIEW

(NOT TO SCALE)

100% DESIGN

26775

sнт. **76** 

76



Federal Way, WA 98003-6325

now what's below. Call 811 before you di

DRAFTED: D. MCINTOSH DESIGNED: K DAVIS P.E. REVIEWED: R. PEREZ, P.E. APPROVED: R. PEREZ, P.E.



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STREET LIGHT INFILL

TRAFFIC CONTROL PLANS

RAMP DETAIL

TEMPORARY PEDESTRIAN RAMP WITH EDGE BOARD