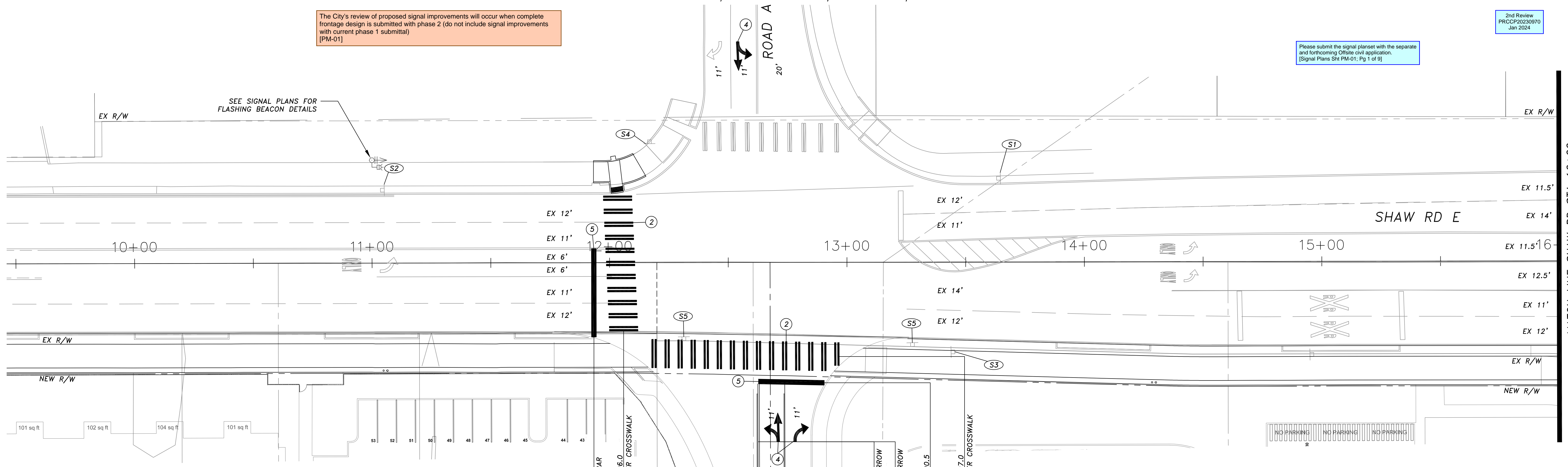


SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M.

The City's review of proposed signal improvements will occur when complete frontage design is submitted with phase 2 (do not include signal improvements with current phase 1 submittal) [PM-01]

2nd Review  
PRCOP20230870  
Jan 2024

Please submit the signal planset with the separate and forthcoming Offsite civil application. [Signal Plans Sht PM-01; Pg 1 of 9]



MATCH LINE SHAW RD STA 16+00  
SEE SHEET PHASE 2 SET

**PAVEMENT MARKING CONSTRUCTION NOTES**

- ① INSTALL 8" WHITE PAINTED GORE STRIPE WITH TYPE 2W RPM'S AT 10' O.C. PER CITY OF PUYALLUP STANDARD 01.03.06 AND 01.03.10, DETAIL A.
- ② INSTALL WHITE THERMOPLASTIC CROSSWALK PER CITY OF PUYALLUP STANDARD 01.03.11.
- ③ INSTALL PAINTED DOUBLE YELLOW CENTERLINE (DYC) STRIPE WITH TYPE 2YY RPM'S 20' O.C. PER CITY OF PUYALLUP STANDARD 01.03.10, DETAIL B.
- ④ INSTALL WHITE THERMOPLASTIC TRAFFIC ARROW PER CITY OF PUYALLUP STANDARDS 01.03.06 AND 01.03.14 AND WSDOT STANDARD PLAN M-24.40. CENTER IN LANE AT THE STATION SHOWN.
- ⑤ INSTALL 24" WIDE WHITE THERMOPLASTIC STOP BAR PER CITY OF PUYALLUP STANDARD 01.03.06 AND 01.03.11.

**PAVEMENT MARKING GENERAL NOTES**

1. ALL PAVEMENT MARKINGS SHALL BE LAID OUT WITH SPRAY PAINT AND APPROVED BY CITY OF PUYALLUP (COP) TRAFFIC OPERATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE COP TRAFFIC OPERATIONS APPROVAL THROUGH THE COP INSPECTOR.
2. ALL CROSSWALK MARKINGS SHALL BE CENTERED WITHIN THE ADJACENT ADA RAMPS UNLESS OTHERWISE DIRECTED BY THE COP INSPECTOR.
3. COORDINATE WITH CITY STRIPING TECHNICIAN AT 253.405.4389 PRIOR TO INSTALLATION.
4. CONTRACTOR SHALL COORDINATE WITH CITY SIGN SPECIALIST, TED SCHUMAN, (253.405.4389) PRIOR TO SIGN INSTALLATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SIGNS AND CHANNELIZATION PER CITY OF PUYALLUP STANDARDS. CONTRACTOR SHALL LAYOUT OUT ALL SIGNS AND CHANNELIZATION, AND THEN CONTACT PUYALLUP, AT 253.405.4389, 48-HOURS IN ADVANCE OF INSTALLATION TO VERIFY LAYOUT.
6. INSTALL ALL SIGNS IN CONCRETE/ASPHALT PER CITY OF PUYALLUP STANDARD 01.04.01.
7. CONTRACTOR SHALL PRUNE ALL VEGETATION IN CONFLICT WITH SIGNS TO ENSURE UNOBSTRUCTED VISIBILITY TO DRIVERS AND PEDESTRIANS.
8. UNLESS OTHERWISE NOTED, INSTALL ALL SIGNS, PER CITY OF PUYALLUP STANDARD DETAIL 01.04.01, AT 7" ABOVE FINISHED GRADE, AS MEASURED TO THE BOTTOM OF SIGN. ON THE SAME POST, THE LOWEST SIGN SHALL BE 7" ABOVE FINISHED GRADE, AS MEASURED TO THE BOTTOM OF THE SIGN.

**PAVEMENT MARKING REMOVAL NOTE**

1. REMOVE EXISTING CONFLICTING STRIPING AS NECESSARY TO ACCOMMODATE NEW STRIPING. CONTRACTOR TO COORDINATE STRIPING REMOVAL WITH ASPHALT RESTORATION WORK.

SHAW STA 11+93.5  
6.0' LT TO 31.5' RT, STOP BAR

SHAW STA 12+03.5 TO 12+06.0  
28.0' LT TO 29.0' RT, CENTER CROSSWALK

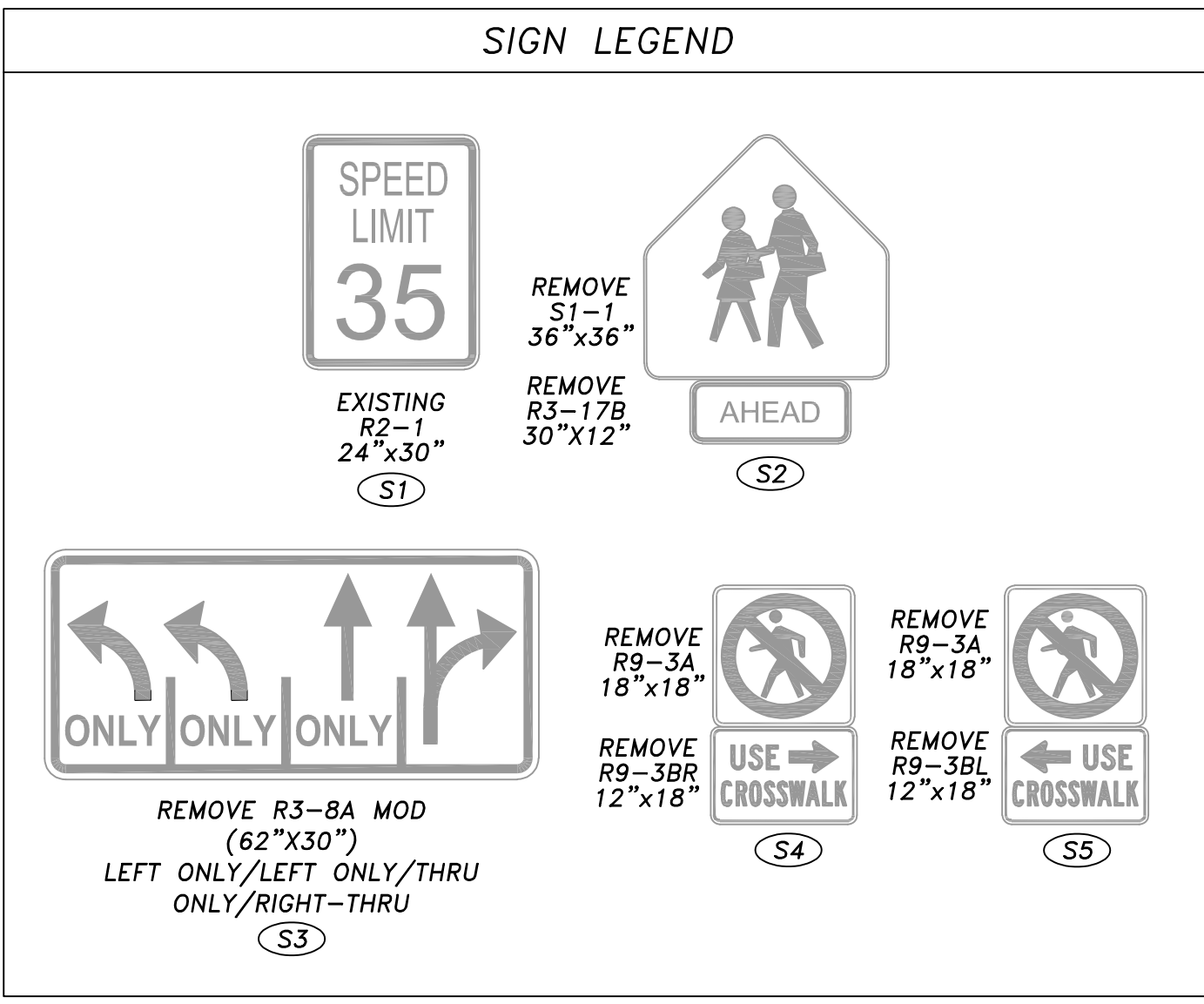
SHAW STA 13+71.0  
75.5' RT, BOTTOM TRAFFIC ARROW

SHAW STA 12+78.5  
75.5' RT, BOTTOM TRAFFIC ARROW

SHAW STA 12+62.5 TO 12+90.5  
51.0' RT, STOP BAR

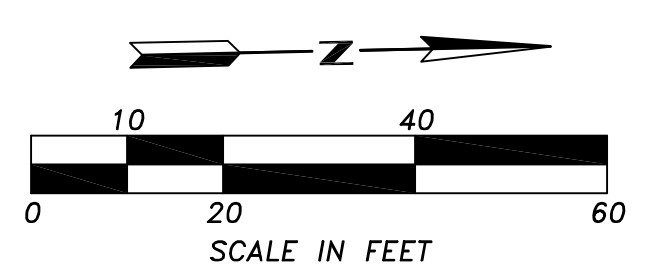
SHAW STA 12+17.5 TO 12+97.0  
38.5' RT TO 39.5' RT, CENTER CROSSWALK

**SIGN LEGEND**



**SIGNING CONSTRUCTION NOTES**

- ① EXISTING R2-1 "SPEED LIMIT" SIGN AND EXISTING POST TO REMAIN. PROTECT DURING CONSTRUCTION.
- ② REMOVE EXISTING S1-1 AND R3-17B SIGNS AND POST AND RETURN TO CITY. RESTORE AREA TO MATCH SURROUNDING.
- ③ REMOVE EXISTING R3-8A MOD SIGN AND POST AND RETURN TO CITY. RESTORE AREA TO MATCH SURROUNDING.
- ④ REMOVE EXISTING R9-3A SIGN AND R9-3BR SIGN AND RETURN TO CITY.
- ⑤ REMOVE EXISTING R9-3A SIGN AND R9-3BL SIGN AND RETURN TO CITY.



**LEGEND**

- PAVEMENT MARKING NOTE
- SIGNING NOTE
- SIGN (NEW)
- SIGN (EXISTING)

**APPROVED**

BY: \_\_\_\_\_  
CITY OF PUYALLUP  
ENGINEERING SERVICES

DATE: \_\_\_\_\_

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.  
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

SEE SHEET PM-02 TO PM-03 FOR:  
STANDARD PLAN DETAILS

No.	Date	By	Revision Description

Designed By:	LAB	Issue Date:	09/29/2023
Drawn By:	LAB	Project No.:	2022-295
Checked By:	GRL		



**TENW**  
Transportation Engineering NorthWest

Transportation Planning | Design | Traffic Impact & Operations  
11400 3E 8th Street, Suite 200, Bellevue, WA 98004 | Office (425) 889-6747  
Project Contact: Trevor Tokara, P.E.  
Phone: 206-914-3843

**ASH DEVELOPMENT, LLC**  
EAST TOWN CROSSING  
PUYALLUP, WA

PAVEMENT MARKING &  
SIGNING PLANS - PHASE 1

PM-01  
SHEET:  
OF

### CITY OF PUYALLUP LEFT/RIGHT TURN POCKET ARROW AND ONLY LAYOUT

**NOTES:**

- THE PLACEMENT AND NUMBER OF ARROW/ONLY MARKINGS FOR LANES EXCEEDING 275' WILL BE APPROVED ON AN INDIVIDUAL BASIS BY THE CITY OF PUYALLUP.
- DISTANCES SHALL BE EQUAL WHEN LESS THAN 100'

**NOTES:**

- PAINT FOR LANES STRIPES SHALL COMPLY WITH SPECIFICATIONS FOR NO HEAT, INSTANT DRY PAVEMENT MARKING. GLASS BEADS SHALL COMPLY WITH SPECIFICATIONS FOR TYPE I WATERPROOF OVERLAY GLASS SPHERES. INSTALLATION SHALL MEET CONSTRUCTION REQUIREMENTS 8-22.3 OF 2002 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION. SEE PAVEMENT MARKING DETAILS FOR EXCEPTIONS WHEN PAINT CAN NOT BE USED.
- PAVEMENT MARKINGS SHALL BE TYPE A - LIQUID HOT APPLIED THERMOPLASTIC PER STANDARD SPECIFICATIONS, SECTION 9-34 PAVEMENT MARKING MATERIAL, 9-34.1 GENERAL.
- STOP BAR IS TO BE INSTALLED ONLY WHERE A TRAFFIC STUDY DETERMINES THEY ARE WARRANTED.

01.03.06

### CITY OF PUYALLUP TWO-WAY LEFT TURN CHANNELIZATION

LENGTH	NUMBER OF ARROW SETS	LOCATION OF ARROW SETS
0' - 100'	0	
101' - 300'	1	
301' - 500'	2	
501' - 850'	3	
851' - 1200'	4	
1201' - 1750'	5	* SPACE BALANCE OF SETS EVENLY OVER REMAINDER OF SEGMENT.
OVER 1750'	$L=100$ 300	ROUND TO NEAREST WHOLE NUMBER

**EXAMPLE:**

**NOTES:**

- STOP BAR IS TO BE INSTALLED ONLY WHERE A TRAFFIC STUDY DETERMINES THEY ARE WARRANTED.
- SECTION LENGTHS ARE DETERMINED BY INTERSECTION PLACEMENTS, WHICH ARE VARIABLE.

01.03.07

### CITY OF PUYALLUP TWO-WAY LEFT TURN CHANNELIZATION (CONT.)

**NOTES:**

- STOP BAR IS TO BE INSTALLED ONLY WHERE A TRAFFIC STUDY DETERMINES THEY ARE WARRANTED.
- SECTION LENGTHS ARE DETERMINED BY INTERSECTION PLACEMENTS, WHICH ARE VARIABLE.

01.03.08

### CITY OF PUYALLUP LEFT TURN POCKETS

**NOTES:**

- STOP BAR IS TO BE INSTALLED ONLY WHERE A TRAFFIC STUDY DETERMINES THEY ARE WARRANTED.
- SPACING OF ARROW MARKINGS FOR LEFT/RIGHT TURN POCKETS DESIRABLE ---125 FEET TO 150+ FEET
- TURN LANE STORAGE LENGTH TO BE DETERMINED BASED ON TRAFFIC VOLUMES. ABSOLUTE MIN. ---80 FEET DESIRABLE ---100 FEET

01.03.09

### CITY OF PUYALLUP PAVEMENT MARKING DETAILS

**NOTES:**

- CENTERLINE STRIPE FOR CHANNELIZATION SHALL BE DETAIL B OR DETAIL C AS DIRECTED BY CITY. CENTERLINE STRIPE FOR ALL COLLECTORS SHALL BE DETAIL D WITH TYPE 2ZY RPM SPACED AT 40' INTERVALS ON TANGENTS AND HORIZ. CURVES WITH A RADIUS OF 500' OR MORE AND 40' INTERVALS ON HORIZ. CURVES LESS THAN 500'. CENTERLINE STRIPE FOR ARTERIALS SHALL BE DETAIL E WITH RPM SPACING AS PREVIOUSLY DEFINED.
- ROADS, UNLESS OTHERWISE DETERMINED BY THE CITY, (ARTERIALS & COLLECTORS) LONGITUDINAL LINES SHALL BE PAINTED, APPLIED 14 MILS WHEN WET.
- NO PASSING ZONES IN ONE DIRECTION OR BOTH SHALL BE CLEARLY MARKED WITH CENTERLINE STRIPE, DETAIL B OR DETAIL C OR COMBINATION OF DETAIL D AND DETAIL E.
- ON WIDE INTERSECTIONS SPACE TYPE 1 OR 2 RPM 4 FEET ON CENTER.

01.03.10

### CITY OF PUYALLUP CROSSWALK DETAIL

**NOTES:**

- FOR ALL ROADWAYS, THE LONGITUDINAL LINES SHALL BE CENTERED ON THE LANE LINES AND IN THE CENTER OF THE TRAVELED PORTION OF THE LANE TO MINIMIZE TIRE WEAR. THE SPACING BETWEEN THE LONGITUDINAL LINES SHALL NOT EXCEED 60".
- THE LENGTH OF A CROSSWALK SHALL BE 8' ACROSS RESIDENTIAL STREETS, 10' ACROSS COLLECTORS AND MINOR ARTERIALS AND 12' ACROSS PRINCIPAL ARTERIALS. HOWEVER, THE LENGTH OF A CROSSWALK SHALL BE 8' ACROSS SIDE STREETS ALONG COLLECTORS AND MINOR ARTERIALS AND 12' ACROSS SIDE STREETS ALONG PRINCIPAL ARTERIALS.
- STOP BAR WHEN USED WITH A CROSSWALK SHALL BE PLACED FOUR FEET IN ADVANCE OF AND PARALLEL TO THE CROSSWALK ALL STOP BARS SHALL BE 24" WIDE.
- PAVEMENT MARKINGS, INCLUDING CROSSWALKS, SHALL BE TYPE A LIQUID HOT APPLIED THERMOPLASTIC. PER STANDARD SPECIFICATIONS, SECTION 9-34 PAVEMENT MARKING MATERIAL, 9-34.1 GENERAL.

01.03.11

### CITY OF PUYALLUP TAPER MARKING LAYOUTS

MPH	SET SPACING
20 MPH	15 FEET
25 MPH	20 FEET
30 MPH	25 FEET
35 MPH	30 FEET
40 MPH	35 FEET

**NOTES:**

- TAPER LINE USAGE DETERMINED BY TRAFFIC ENGINEER
- RPM USAGE DETERMINED BY TRAFFIC ENGINEER
- OBJECT MARKER USAGE DETERMINED BY TRAFFIC ENGINEER
- SIGN SHALL BE TYPE 4 PRISMATIC SHEETING

01.03.13

### CITY OF PUYALLUP PAVEMENT ARROWS

**NOTE:** PAVEMENT MARKINGS, INCLUDING CROSSWALKS, SHALL BE TYPE A LIQUID HOT APPLIED THERMOPLASTIC PER STANDARD SPECIFICATIONS, SECTION 9-34 PAVEMENT MARKING MATERIAL, 9-34.1 GENERAL.

01.03.14

APPROVED

BY: \_\_\_\_\_ CITY OF PUYALLUP ENGINEERING SERVICES

DATE: \_\_\_\_\_

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

No.	Date	By	Revision Description

Designed By:	Issue Date:
LAB	09/29/2023
Drawn By:	PERMIT
LAB	
Checked By:	Project No.:
GRL	2022-295



### TENW

Transportation Engineering NorthWest

Transportation Planning | Design | Traffic Impact & Operations  
11400 SE 8th Street, Suite 200, Bellevue, WA 98004 | Office (425) 889-6747  
Project Contact: Trevor Tokara, P.E.  
Phone: 206-914-3843

### ASH DEVELOPMENT, LLC

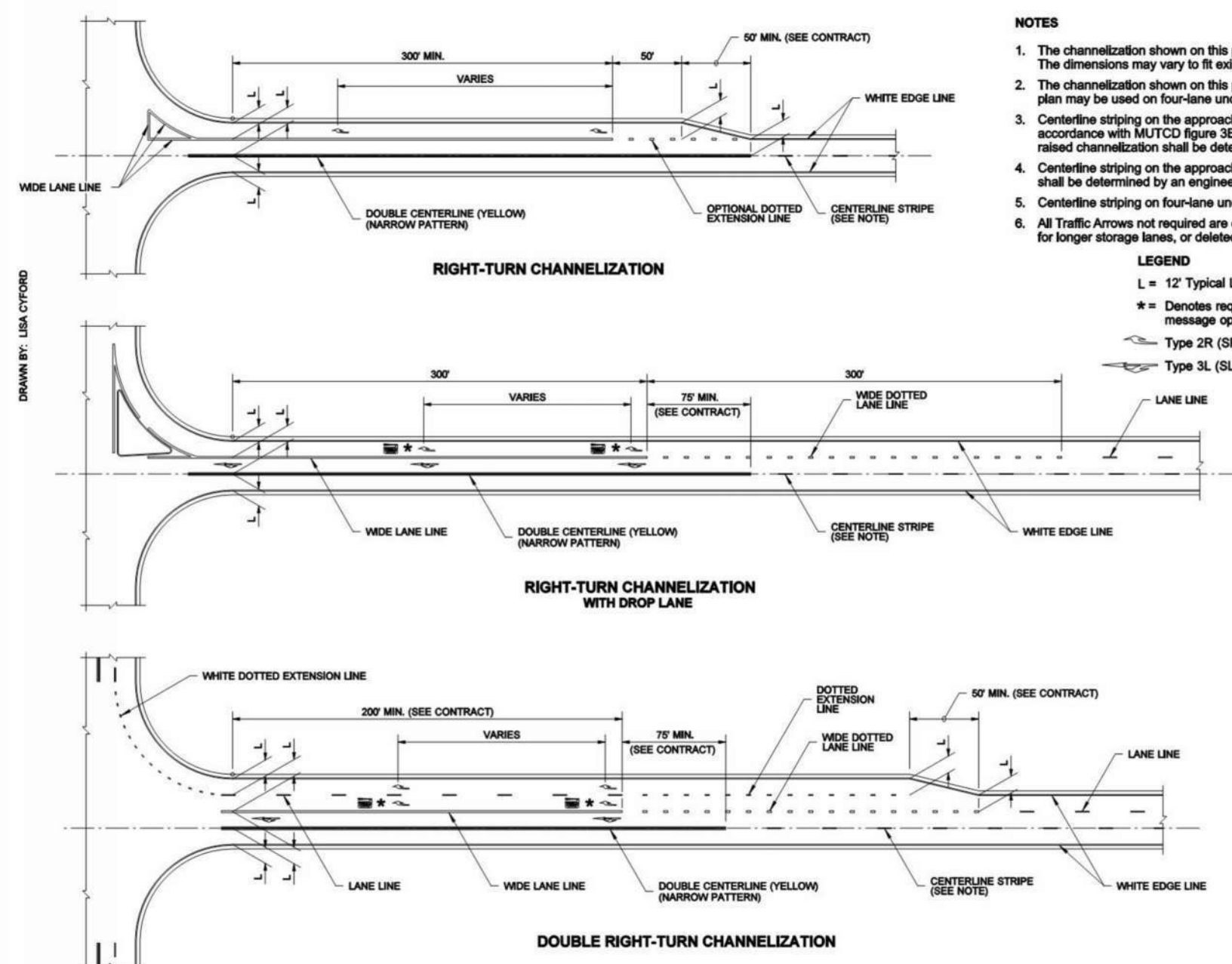
EAST TOWN CROSSING  
PUYALLUP, WA

### PAVEMENT MARKING & SIGNING PLANS

STANDARD DETAILS - PHASE 1

PM-02  
SHEET:  
OF

SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M.



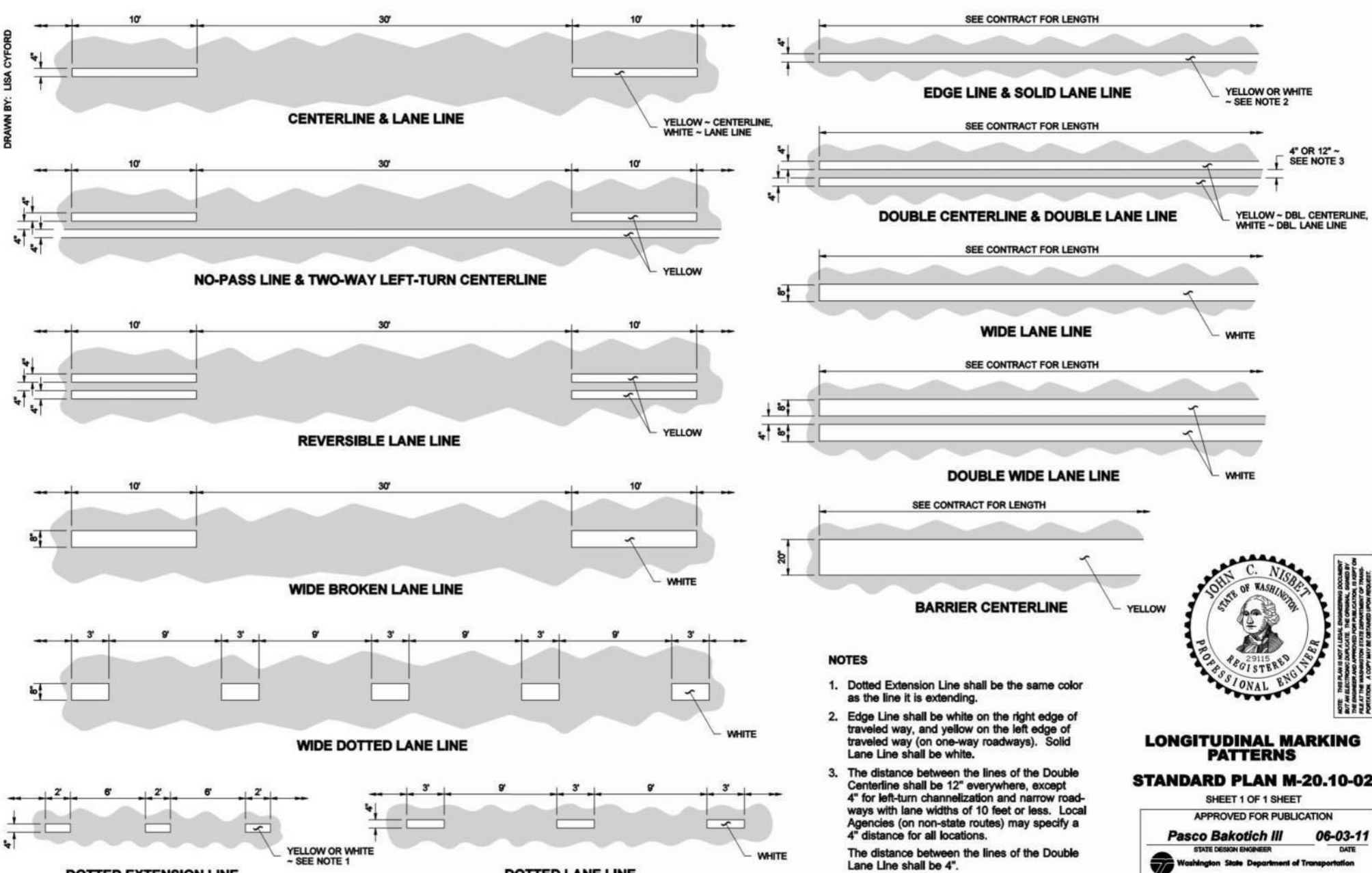
- NOTES**
- The channelization shown on this plan assumes optimal roadway geometric design. The dimensions may vary to fit existing conditions. See Contract.
  - The channelization shown on this plan is for a two-lane highway. The channelization plan may be used on four-lane undivided highways with the appropriate considerations.
  - Centerline striping on the approach to raised channelization shall be No Pass in accordance with MUTCD Figure 3B-15. Centerline striping on the departure from raised channelization shall be determined by an engineering study.
  - Centerline striping on the approach to and departure from painted channelization shall be determined by an engineering study.
  - Centerline striping on four-lane undivided highways shall be a double center line.
  - All Traffic Arrows not required are optional, but recommended. Arrows may be added for longer storage lanes, or deleted for shorter storage lanes. See Contract Plans.

**LEGEND**

- L = 12' Typical Lane Width. See Contract for specified lane widths.
- ◆ = Devices required traffic arrow. Accompanying ONLY word message optional. See Standard Plan M-8.10 for spacing.
- Type 2R (SR) Traffic Arrow
- Type 3L (SL) Traffic Arrow



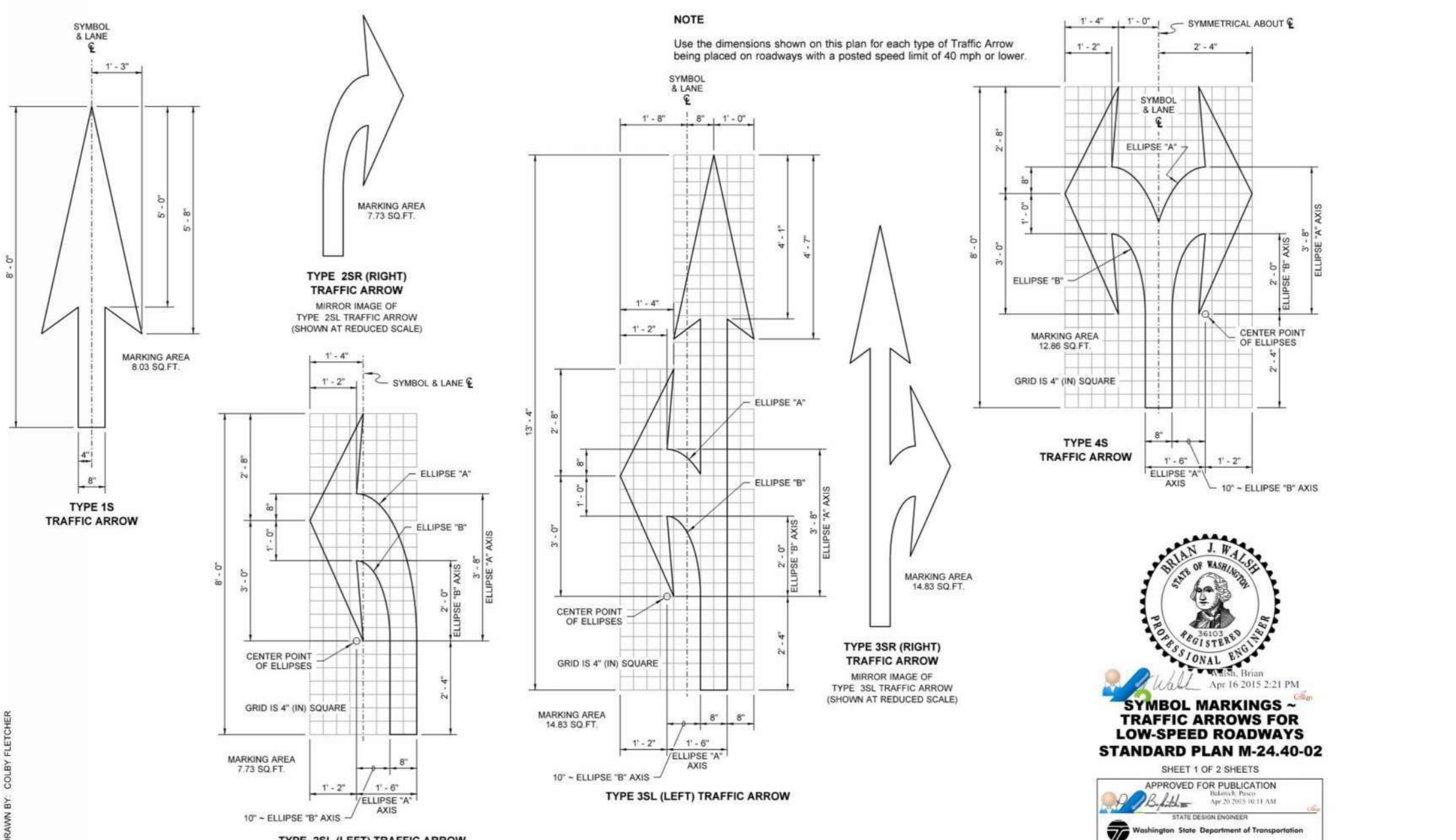
**RIGHT-TURN CHANNELIZATION**  
**STANDARD PLAN M-5.10-02**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
 Pasco Balotich III 06-03-11  
 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION



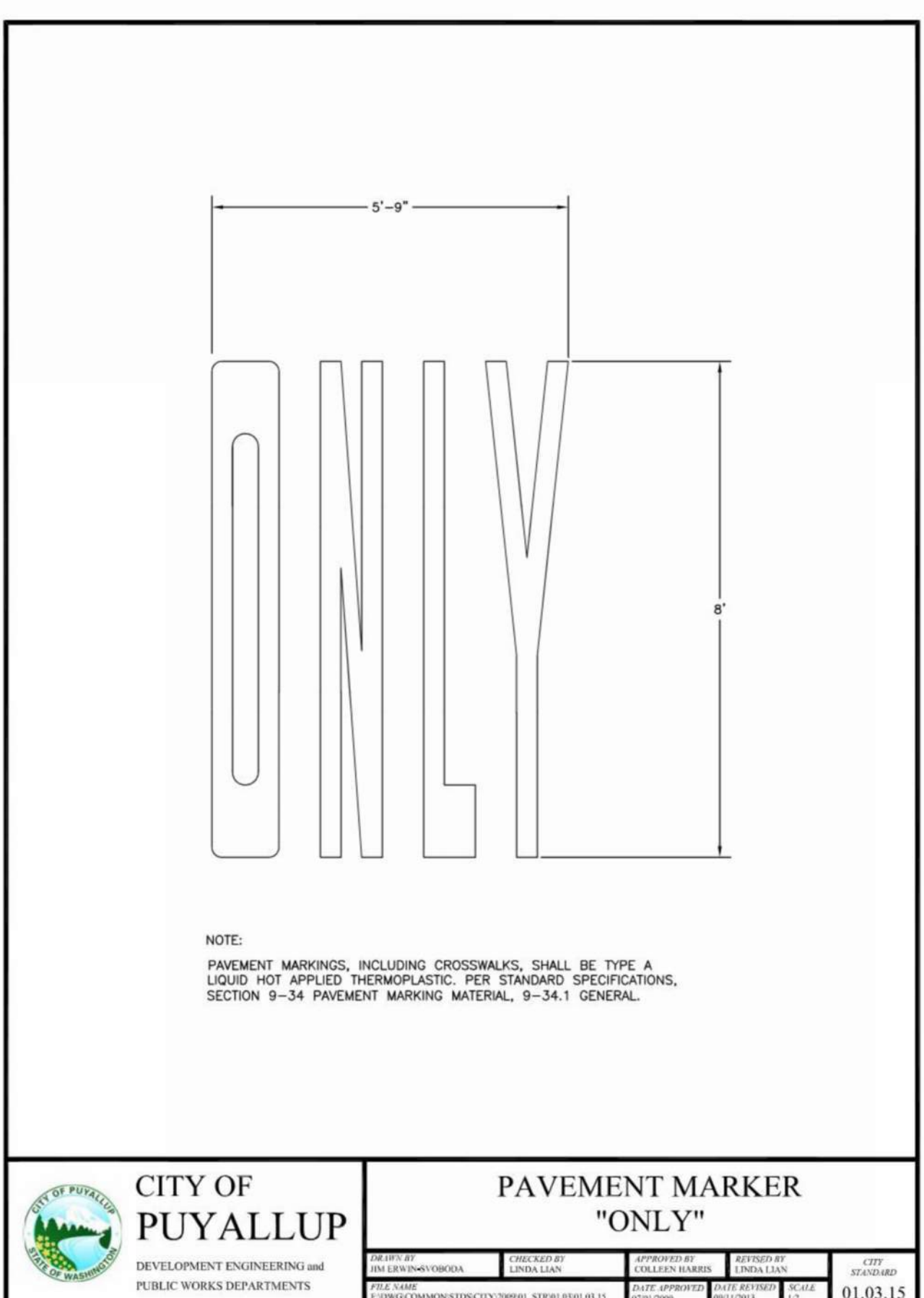
- NOTES**
- Dotted Extension Line shall be the same color as the line it is extending.
  - Edge Line shall be white on the left edge of traveled way, and yellow on the right edge of traveled way (on one-way roadways). Solid Lane Line shall be white.
  - The distance between the lines of the Double Centerline shall be 12' everywhere, except 4' for left-turn channelization and narrow roadways with lane widths of 10 feet or less. Local Agencies (on non-state routes) may specify a 4' distance for all locations. The distance between the lines of the Double Lane Line shall be 4'.



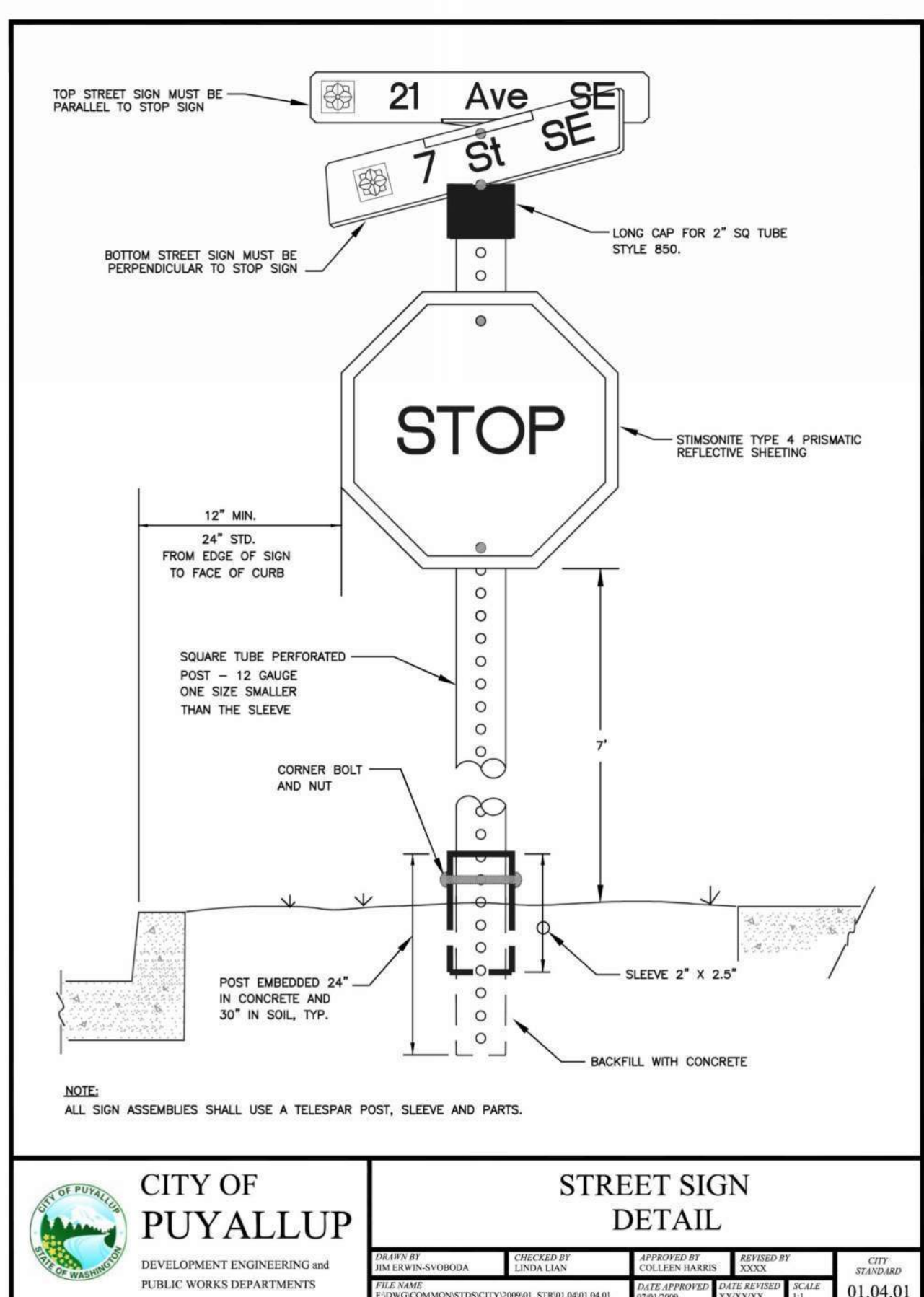
**LONGITUDINAL MARKING PATTERNS**  
**STANDARD PLAN M-20.10-02**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
 Pasco Balotich III 06-03-11  
 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION



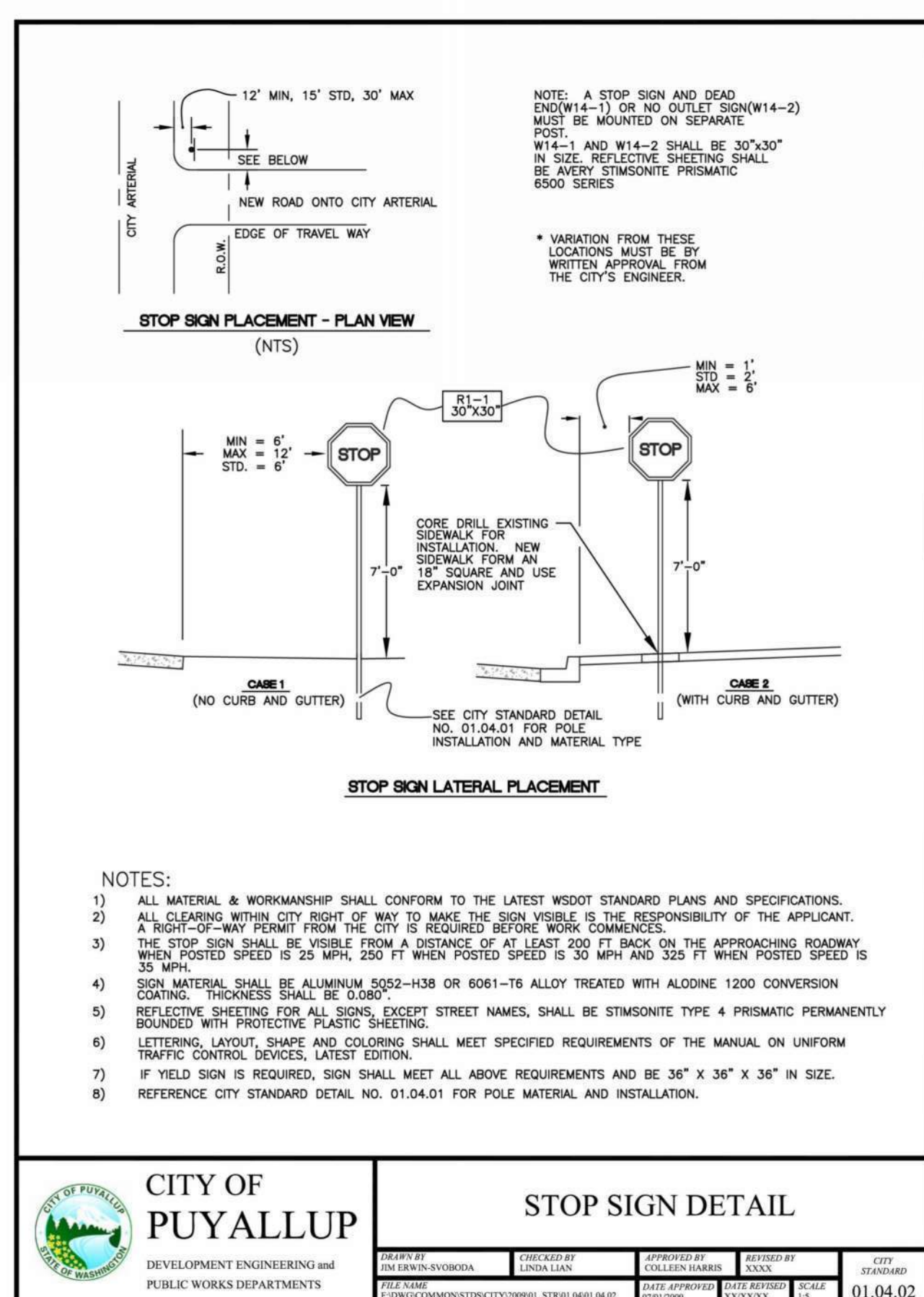
**SYMBOL MARKINGS - TRAFFIC ARROWS FOR LOW-SPEED ROADWAYS**  
**STANDARD PLAN M-24.40-02**  
 SHEET 1 OF 2 SHEETS  
 APPROVED FOR PUBLICATION  
 Pasco Balotich III 06-03-11  
 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION



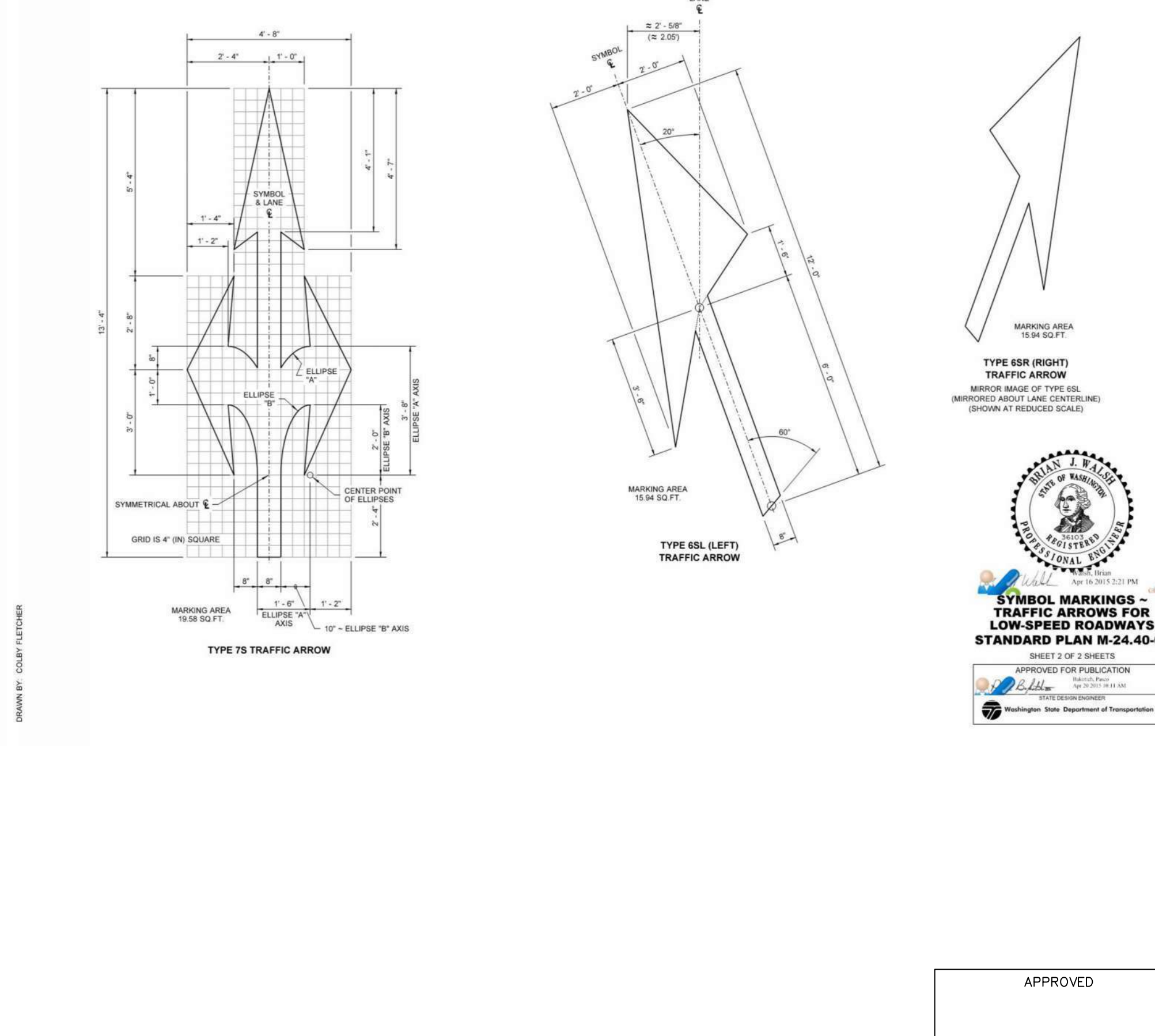
**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS  
**PAVEMENT MARKER "ONLY"**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
 DATE: 01.03.15



**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS  
**STREET SIGN DETAIL**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
 DATE: 01.04.01



**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS  
**STOP SIGN DETAIL**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
 DATE: 01.04.02

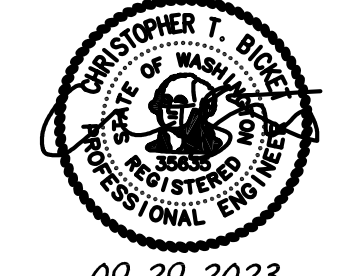


**SYMBOL MARKINGS - TRAFFIC ARROWS FOR LOW-SPEED ROADWAYS**  
**STANDARD PLAN M-24.40-02**  
 SHEET 2 OF 2 SHEETS  
 APPROVED FOR PUBLICATION  
 DATE: 01.03.15

APPROVED  
 BY: CITY OF PUYALLUP ENGINEERING SERVICES  
 DATE: \_\_\_\_\_  
 NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.  
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No.	Date	By	Revision Description

<b>Designed By:</b> LAB	<b>Issue Date:</b> 09/29/2023
<b>Drawn By:</b> LAB	<b>PERMIT</b>
<b>Checked By:</b> GRL	<b>Project No.:</b> 2022-295



**TENW**  
 Transportation Engineering NorthWest  
 Transportation Planning | Design | Traffic Impact & Operations  
 11400 SE 8th Street, Suite 200, Bellevue, WA 98004 | Office (425) 889-6747  
 Project Contact: Trevor Takara, P.E.  
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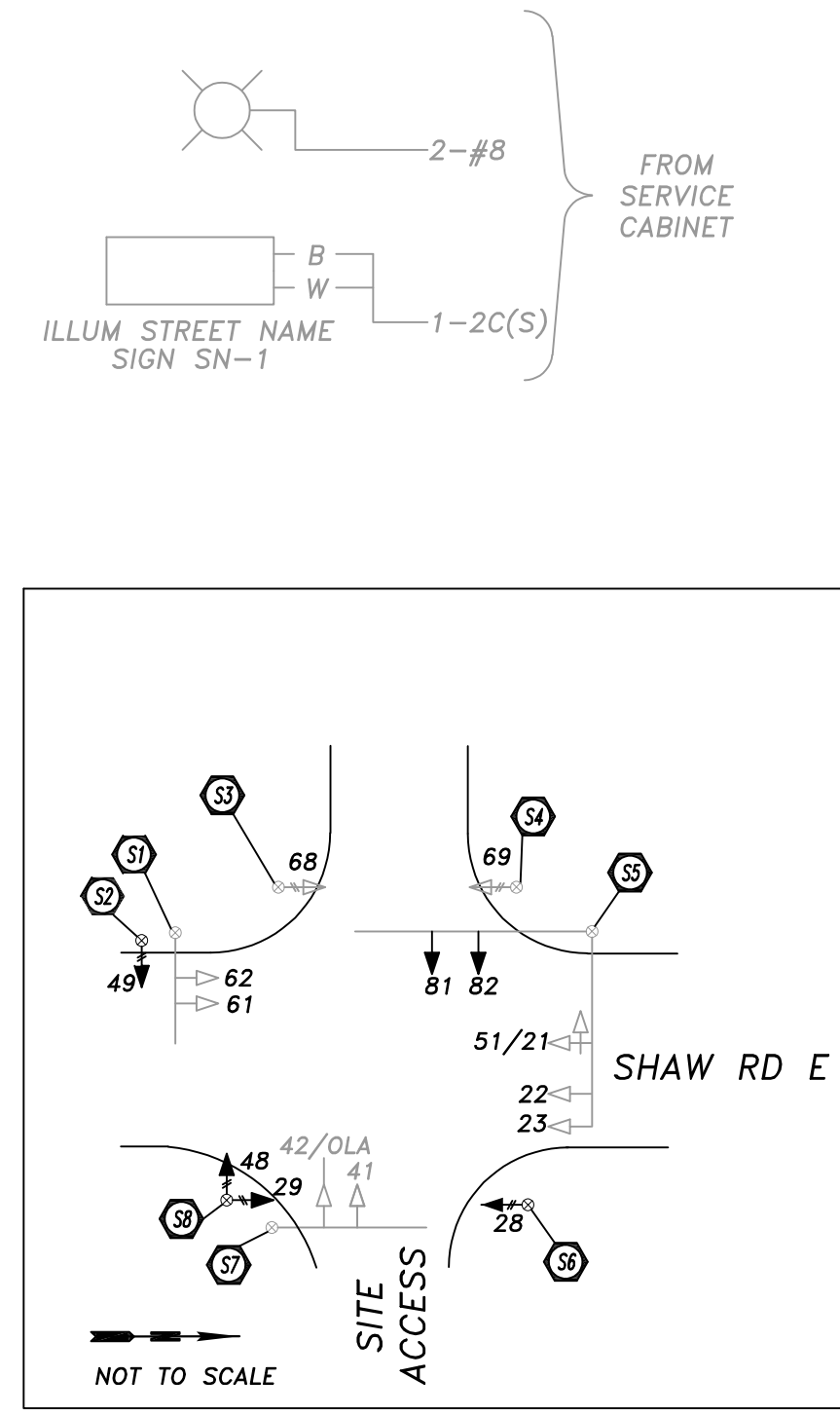
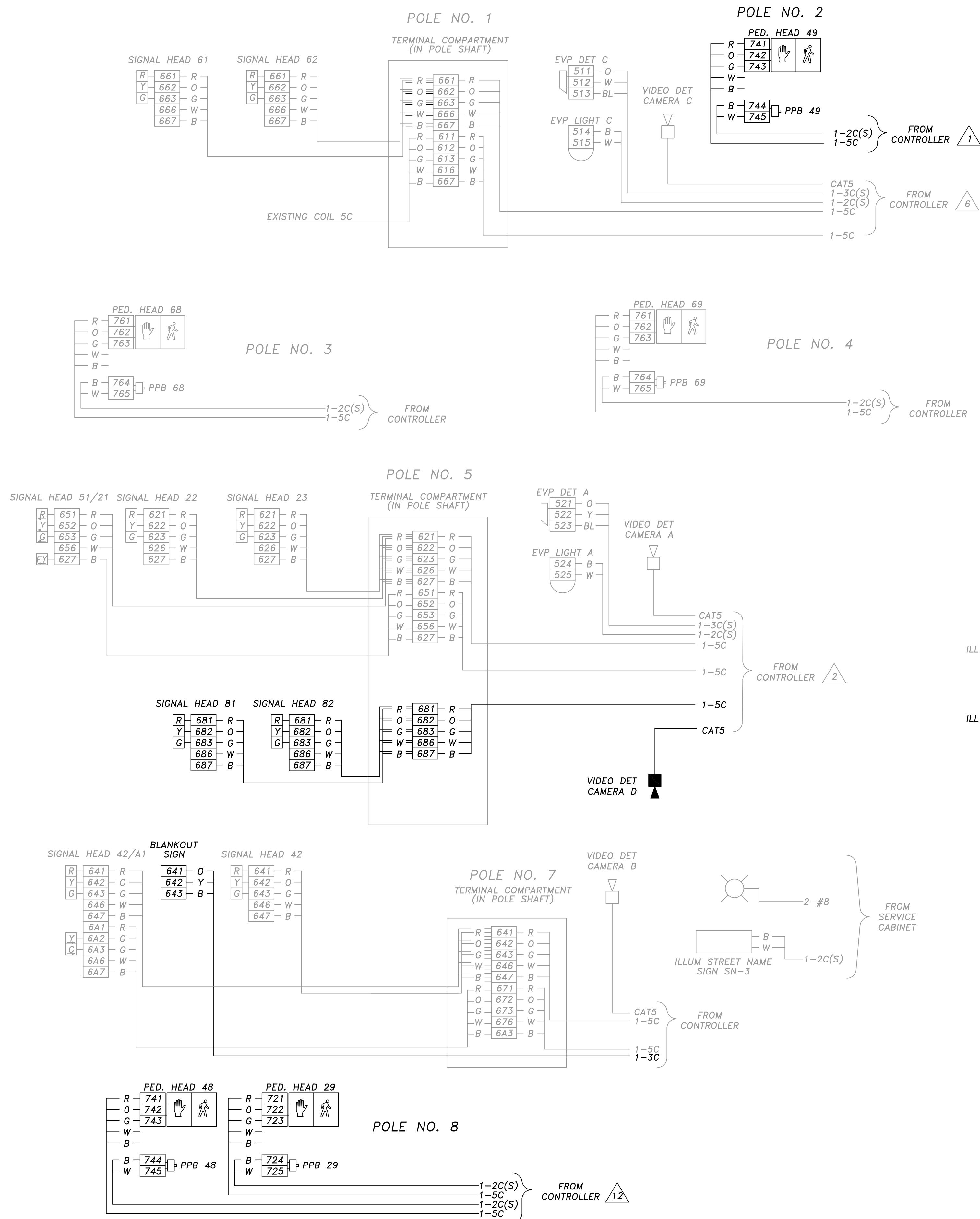
**ASH DEVELOPMENT, LLC**  
**EAST TOWN CROSSING**  
**PUYALLUP, WA**

**PAVEMENT MARKING & SIGNING PLANS**  
**STANDARD DETAILS - PHASE 1**  
**PM-03**  
**SHEET: \_\_\_\_\_ OF \_\_\_\_\_**

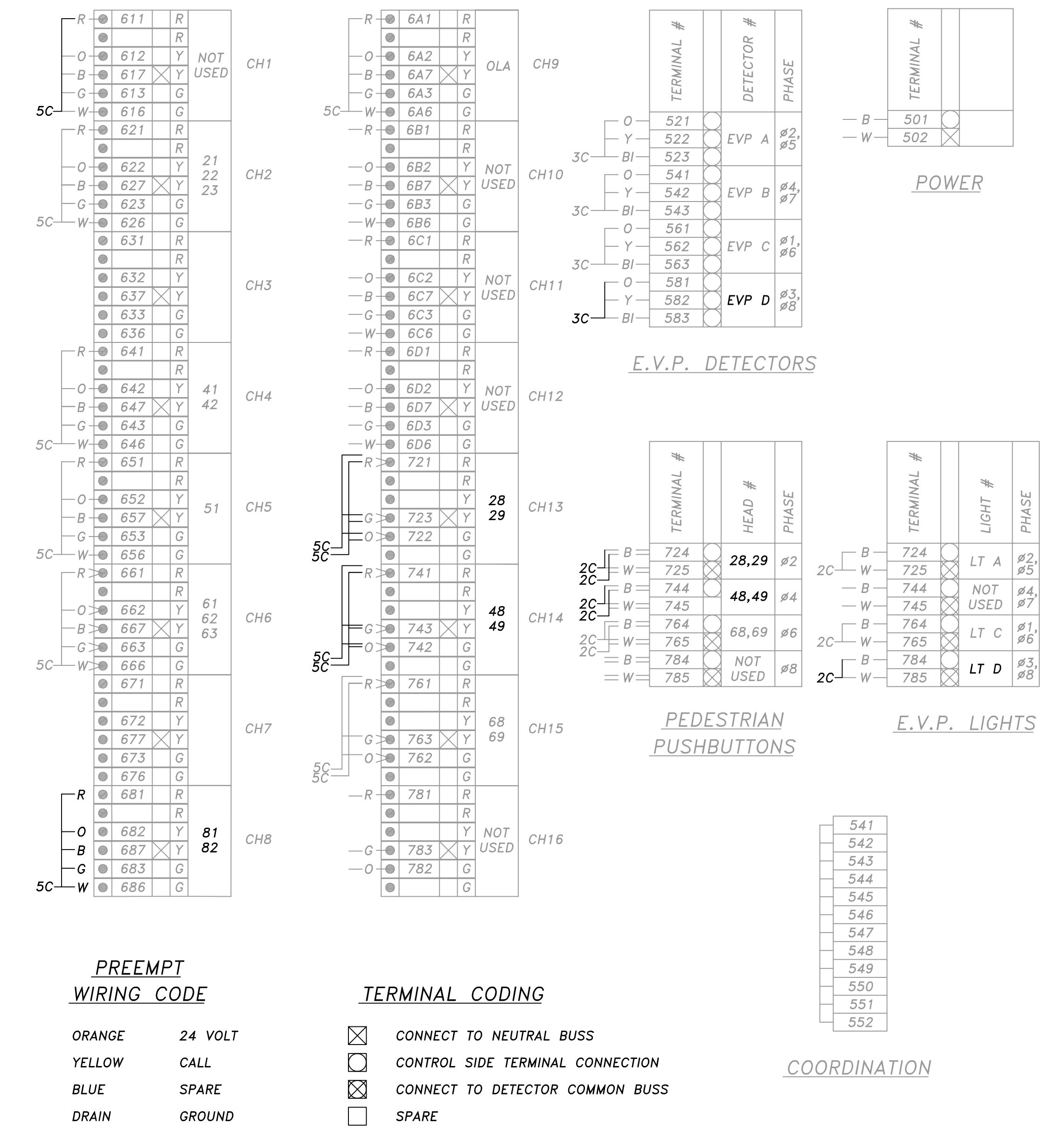




FIELD WIRE TERMINATIONS



CONTROLLER TERMINALS



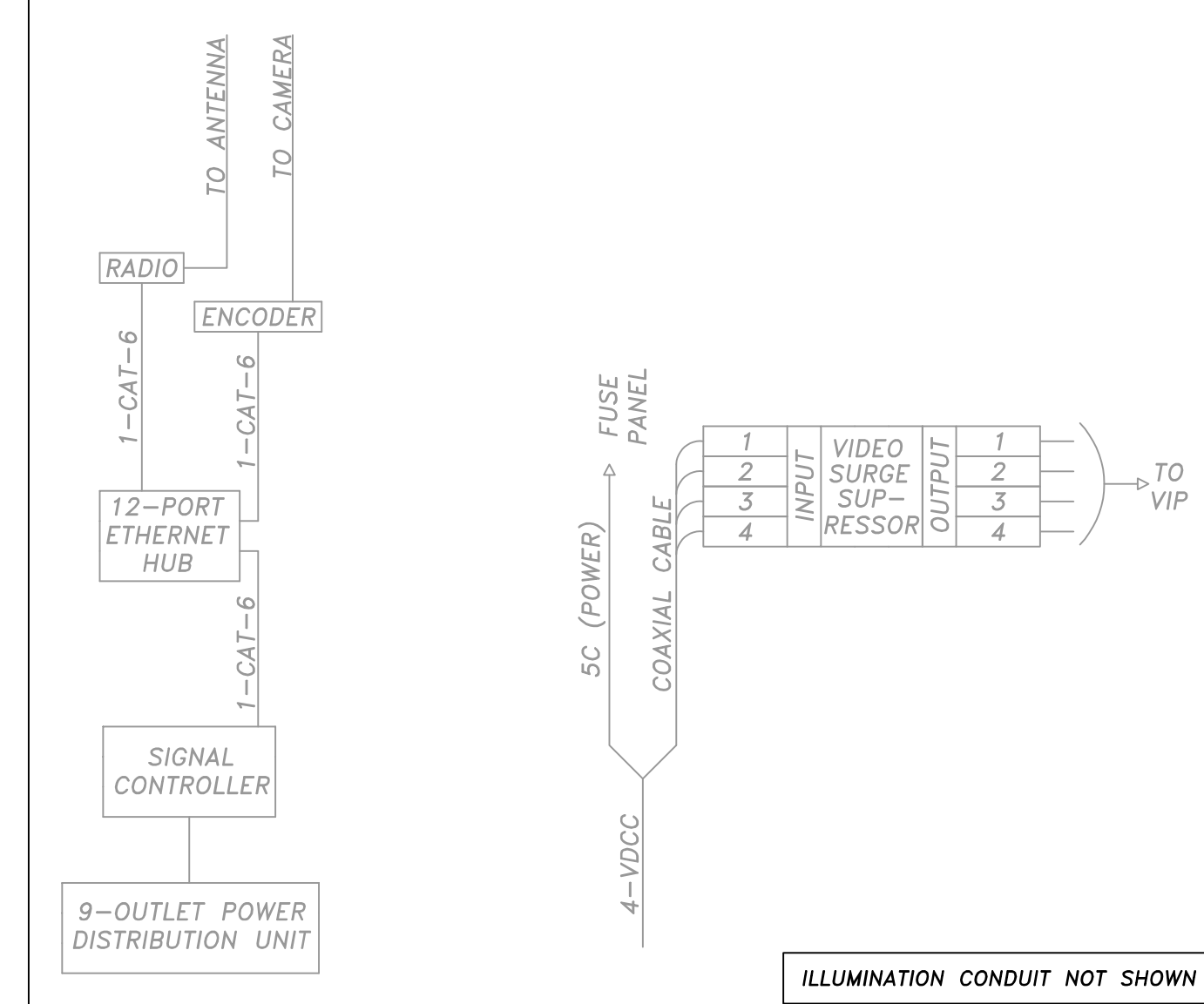
PREEMPT WIRING CODE

ORANGE	24 VOLT
YELLOW	CALL
BLUE	SPARE
DRAIN	GROUND

TERMINAL CODING

- CONNECT TO NEUTRAL BUSS
- CONTROL SIDE TERMINAL CONNECTION
- CONNECT TO DETECTOR COMMON BUSS
- SPARE

CAMERA WIRING/TERMINATIONS



ABBREVIATIONS:  
EVP: EMERGENCY VEHICLE PRE-EMPTION  
VDCC: VIDEO DETECTION CAMERA CABLE

APPROVED  
BY: \_\_\_\_\_  
CITY OF PUYALLUP  
ENGINEERING SERVICES  
DATE: \_\_\_\_\_  
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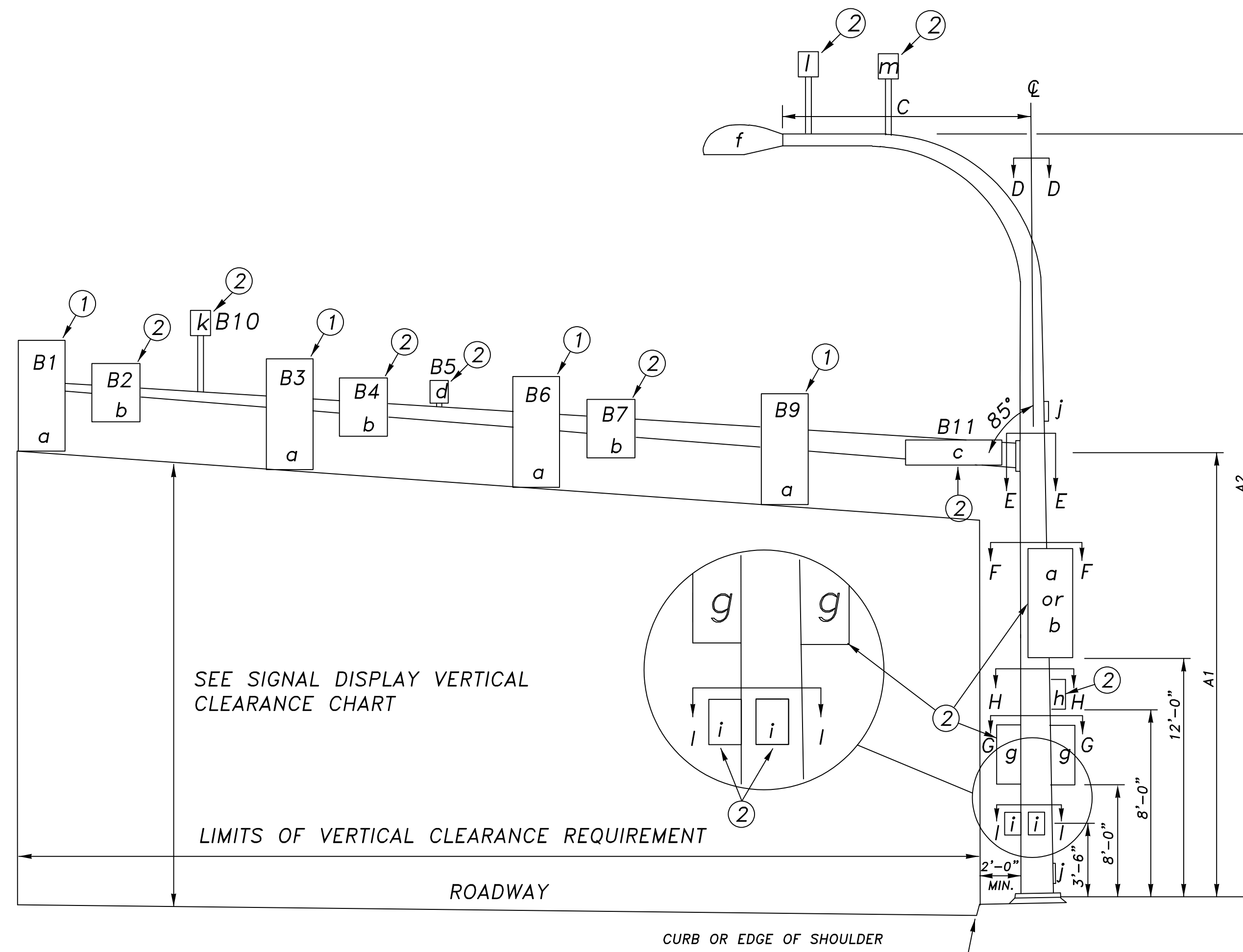
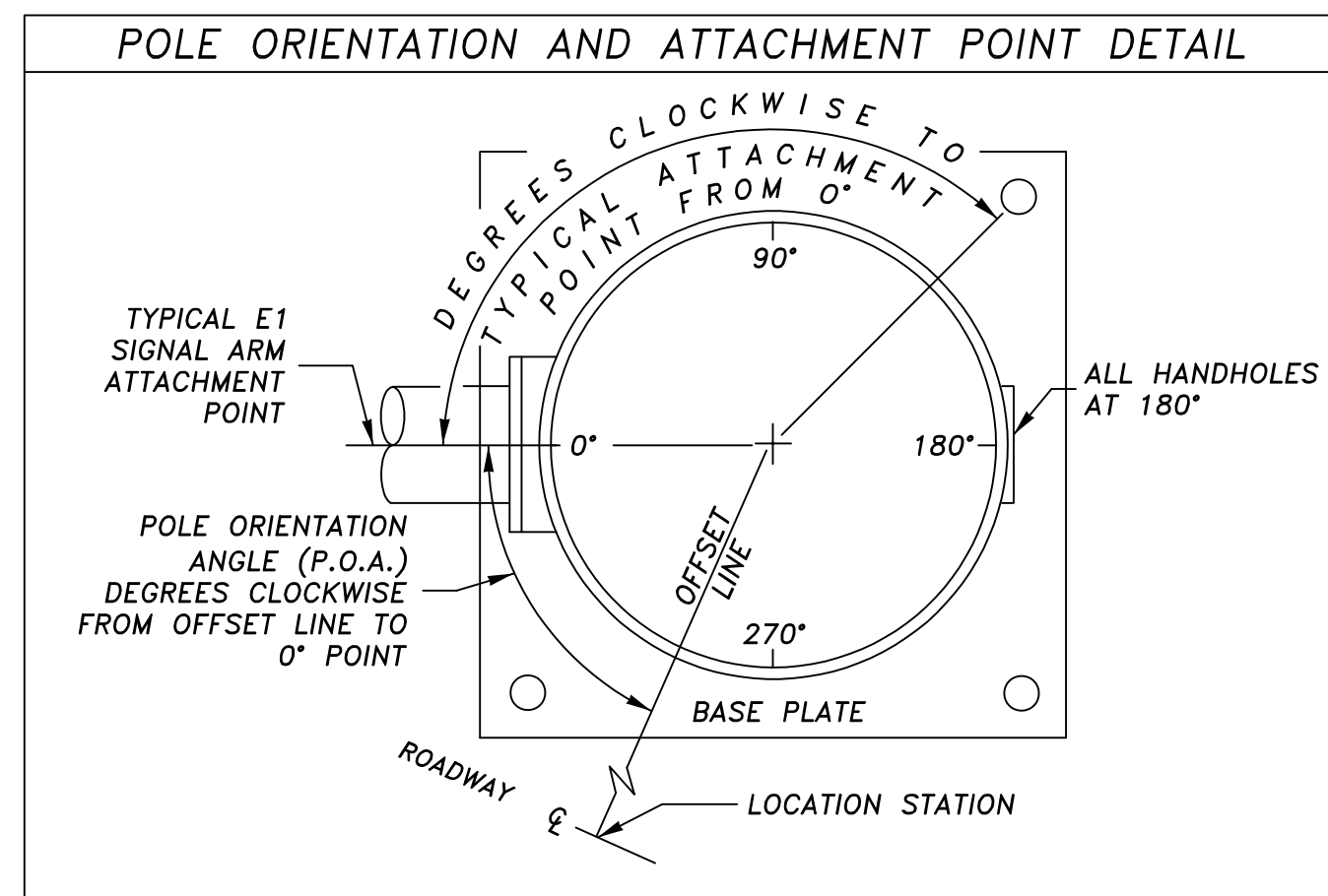
**TENW**  
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11400 SE 8th Street, Suite 200, Bellevue, WA 98004 | Office (425) 899-6747  
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Phone: 206-914-3843

**ASH DEVELOPMENT, LLC**  
EAST TOWN CROSSING  
PUYALLUP, WA

TRAFFIC SIGNAL  
WIRING DIAGRAM - PHASE 1

TS-03  
SHEET:  
OF

SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M.



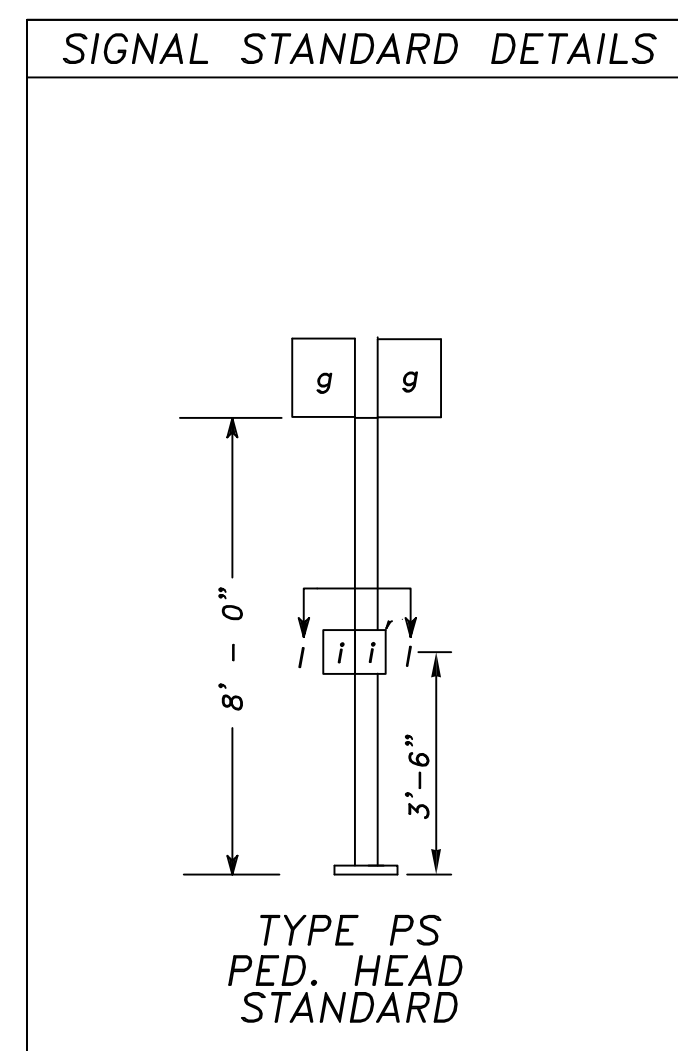
LEGEND	
a.	VEHICLE SIGNAL HEAD
b.	SIGN
c.	ILLUMINATED STREET NAME SIGN
d.	PRE-EMPT DETECTOR
e.	DELETED (10/22/90)
f.	LUMINAIRE
g.	PEDESTRIAN SIGNAL HEAD
h.	RECESSED TERMINAL COMPARTMENT
i.	PEDESTRIAN PUSHBUTTON ASSEMBLY
j.	HANDHOLE
k.	VIDEO DETECTION CAMERA
l.	PTZ CAMERA
m.	BROADBAND PANEL ANTENNA

ALTERNATE NOTE 1 FOR TYPE N MOUNT ONLY:

DRILL 1" HOLE IN MAST ARM AND INSTALL PLASTIC SPLIT BUSHING FOR CABLE ENTRANCE.

NOTES

- ① MOUNTING COUPLING INSTALLED AT OFFSET DISTANCE INDICATED IN CHART.
- ② FIELD INSTALLED.



TYPE II MAST ARM SIGNAL STANDARD  
 TYPE III COMBINATION LIGHTING AND MAST ARM SIGNAL STANDARD

SIGNAL DISPLAY VERTICAL CLEARANCE (FEET)

DISTANCE FROM STOP LINE	40'		45'		50'		53' OR MORE	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
3 SECTION 12"	16.5'	17.5'	16.5'	19.2'	16.5'	20.9'	16.5'	22.0'
5 SECTION (DOGHOUSE) 12"	16.5'	17.0'	16.5'	18.0'	16.5'	19.7'	16.5'	20.8'
4 SECTION 12"	16.5'	17.0'	16.5'	17.5'	16.5'	18.5'	16.5'	19.6'
5 SECTION (VERTICAL) 12"	16.5'	17.0'	16.5'	17.5'	16.5'	18.5'	16.5'	19.6'

MEASURED FROM BOTTOM OF SIGNAL HEAD HOUSING (BACKPLATE) TO ROADWAY

SIGNAL STANDARD DETAIL CHART

STD. NO.	REFERENCE ROADWAY	FIELD LOCATION				TYPE	MOUNTING HEIGHT (FT)		MAST ARM	SIGNAL MAST ARM DATA											LUMINAIRE ARM (FT)	POLE ATTACHMENT POINT ANGLES (DEG)												FOUNDATION(1) DEPTHS(FT)				REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		STATION	OFFSET	LT	RT		A1	A2		(2)												TOTAL(FT)	C	D	E1	F1	G1	H1	I1	J1	K1	L1	M1	N1	O1	P1	Q1		R1	S1	T1	U1	V1	W1	X1	Y1	Z1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		POLE & TO ATTACHMENT POINT	B1	B2	B3		B4	B5		B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16																												B17	B18	B19	B20	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	B47	B48	B49	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59	B60	B61	B62	B63	B64	B65	B66	B67	B68	B69	B70	B71	B72	B73	B74	B75	B76	B77	B78	B79	B80	B81	B82	B83	B84	B85	B86	B87	B88	B89	B90	B91	B92	B93	B94	B95	B96	B97	B98	B99	B100	B101	B102	B103	B104	B105	B106	B107	B108	B109	B110	B111	B112	B113	B114	B115	B116	B117	B118	B119	B120	B121	B122	B123	B124	B125	B126	B127	B128	B129	B130	B131	B132	B133	B134	B135	B136	B137	B138	B139	B140	B141	B142	B143	B144	B145	B146	B147	B148	B149	B150	B151	B152	B153	B154	B155	B156	B157	B158	B159	B160	B161	B162	B163	B164	B165	B166	B167	B168	B169	B170	B171	B172	B173	B174	B175	B176	B177	B178	B179	B180	B181	B182	B183	B184	B185	B186	B187	B188	B189	B190	B191	B192	B193	B194	B195	B196	B197	B198	B199	B200	B201	B202	B203	B204	B205	B206	B207	B208	B209	B210	B211	B212	B213	B214	B215	B216	B217	B218	B219	B220	B221	B222	B223	B224	B225	B226	B227	B228	B229	B230	B231	B232	B233	B234	B235	B236	B237	B238	B239	B240	B241	B242	B243	B244	B245	B246	B247	B248	B249	B250	B251	B252	B253	B254	B255	B256	B257	B258	B259	B260	B261	B262	B263	B264	B265	B266	B267	B268	B269	B270	B271	B272	B273	B274	B275	B276	B277	B278	B279	B280	B281	B282	B283	B284	B285	B286	B287	B288	B289	B290	B291	B292	B293	B294	B295	B296	B297	B298	B299	B300	B301	B302	B303	B304	B305	B306	B307	B308	B309	B310	B311	B312	B313	B314	B315	B316	B317	B318	B319	B320	B321	B322	B323	B324	B325	B326	B327	B328	B329	B330	B331	B332	B333	B334	B335	B336	B337	B338	B339	B340	B341	B342	B343	B344	B345	B346	B347	B348	B349	B350	B351	B352	B353	B354	B355	B356	B357	B358	B359	B360	B361	B362	B363	B364	B365	B366	B367	B368	B369	B370	B371	B372	B373	B374	B375	B376	B377	B378	B379	B380	B381	B382	B383	B384	B385	B386	B387	B388	B389	B390	B391	B392	B393	B394	B395	B396	B397	B398	B399	B400	B401	B402	B403	B404	B405	B406	B407	B408	B409	B410	B411	B412	B413	B414	B415	B416	B417	B418	B419	B420	B421	B422	B423	B424	B425	B426	B427	B428	B429	B430	B431	B432	B433	B434	B435	B436	B437	B438	B439	B440	B441	B442	B443	B444	B445	B446	B447	B448	B449	B450	B451	B452	B453	B454	B455	B456	B457	B458	B459	B460	B461	B462	B463	B464	B465	B466	B467	B468	B469	B470	B471	B472	B473	B474	B475	B476	B477	B478	B479	B480	B481	B482	B483	B484	B485	B486	B487	B488	B489	B490	B491	B492	B493	B494	B495	B496	B497	B498	B499	B500	B501	B502	B503	B504	B505	B506	B507	B508	B509	B510	B511	B512	B513	B514	B515	B516	B517	B518	B519	B520	B521	B522	B523	B524	B525	B526	B527	B528	B529	B530	B531	B532	B533	B534	B535	B536	B537	B538	B539	B540	B541	B542	B543	B544	B545	B546	B547	B548	B549	B550	B551	B552	B553	B554	B555	B556	B557	B558	B559	B560	B561	B562	B563	B564	B565	B566	B567	B568	B569	B570	B571	B572	B573	B574	B575	B576	B577	B578	B579	B580	B581	B582	B583	B584	B585	B586	B587	B588	B589	B590	B591	B592	B593	B594	B595	B596	B597	B598	B599	B600	B601	B602	B603	B604	B605	B606	B607	B608	B609	B610	B611	B612	B613	B614	B615	B616	B617	B618	B619	B620	B621	B622	B623	B624	B625	B626	B627	B628	B629	B630	B631	B632	B633	B634	B635	B636	B637	B638	B639	B640	B641	B642	B643	B644	B645	B646	B647	B648	B649	B650	B651	B652	B653	B654	B655	B656	B657	B658	B659	B660	B661	B662	B663	B664	B665	B666	B667	B668	B669	B670	B671	B672	B673	B674	B675	B676	B677	B678	B679	B680	B681	B682	B683	B684	B685	B686	B687	B688	B689	B690	B691	B692	B693	B694	B695	B696	B697	B698	B699	B700	B701	B702	B703	B704	B705	B706	B707	B708	B709	B710	B711	B712	B713	B714	B715	B716	B717	B718	B719	B720	B721	B722	B723	B724	B725	B726	B727	B728	B729	B730	B731	B732	B733	B734	B735	B736	B737	B738	B739	B740	B741	B742	B743	B744	B745	B746	B747	B748	B749	B750	B751	B752	B753	B754	B755	B756	B757	B758	B759	B760	B761	B762	B763	B764	B765	B766	B767	B768	B769	B770	B771	B772	B773	B774	B775	B776	B777	B778	B779	B780	B781	B782	B783	B784	B785	B786	B787	B788	B789	B790	B791	B792	B793	B794	B795	B796	B797	B798	B799	B800	B801	B802	B803	B804	B805	B806	B807	B808	B809	B810	B811	B812	B813	B814	B815	B816	B817	B818	B819	B820	B821	B822	B823	B824	B825	B826	B827	B828	B829	B830	B831	B832	B833	B834	B835	B836	B837	B838	B839	B840	B841	B842	B843	B844	B845	B846	B847	B848	B849	B850	B851	B852	B853	B854	B855	B856	B857	B858	B859	B860	B861	B862	B863	B864	B865	B866	B867	B868	B869	B870	B871	B872	B873	B874	B875	B876	B877	B878	B879	B880	B881	B882	B883	B884	B885	B886	B887	B888	B889	B890	B891	B892	B893	B894	B895	B896	B897	B898	B899	B900	B901	B902	B903	B904	B905	B906	B907	B908	B909	B910	B911	B912	B913	B914	B915	B916	B917	B918	B919	B920	B921	B922	B923	B924	B925	B926	B927	B928	B929	B930	B931	B932	B933	B934	B935	B936	B937	B938	B939	B940	B941	B942	B943	B944	B945	B946	B947	B948	B949	B950	B951	B952	B953	B954	B955	B956	B957	B958	B959	B960	B961	B962	B963	B964	B965	B966	B967	B968	B969	B970	B971	B972	B973	B974	B975	B976	B977	B978	B979	B980	B981	B982	B983	B984	B985	B986	B987	B988	B989	B990	B991	B992	B993	B994	B995	B996	B997	B998	B999	B1000	B1001	B1002	B1003	B1004	B1005	B1006	B1007	B1008	B1009	B1010	B1011	B1012	B1013	B1014	B1015	B1016	B1017	B1018	B1019	B1020	B1021	B1022	B1023	B1024	B1025	B1026	B1027	B1028	B1029	B1030	B1031	B1032	B1033	B1034	B1035	B1036	B1037	B1038	B1039	B1040	B1041	B1042	B1043	B1044	B1045	B1046	B1047	B1048	B1049	B1050	B1051	B1052	B1053	B1054	B1055	B1056	B1057	B1058	B1059	B1060	B1061	B1062	B1063	B1064	B1065	B1066	B1067	B1068	B1069	B1070	B1071	B1072	B1073	B1074	B1075	B1076	B1077	B1078	B1079	B1080	B1081	B1082	B1083	B1084	B1085	B1086	B1087	B1088	B1089	B1090	B1091	B1092	B1093	B1094	B1095	B1096	B1097	B1098	B1099	B1100	B1101	B1102	B1103	B1104	B1105	B1106	B1107	B1108	B1109	B1110	B1111	B1112	B1113	B1114	B1115	B1116	B1117	B1118	B1119	B1120	B1121	B1122	B1123	B1124	B1125	B1126	B1127	B1128	B1129	B1130	B1131	B1132	B1133	B1134	B1135	B1136	B1137	B1138	B1139	B1140	B1141	B1142	B1143	B1144	B1145	B1146	B1147	B1148	B1149	B1150	B1151	B1152	B1153	B1154	B1155	B1156	B1157	B1158	B1159	B1160	B1161	B1162	B1163	B1164	B1165	B1166	B1167	B1168	B1169	B1170	B1171	B1172	B1173	B1174	B1175	B1176	B1177	B1178	B1179	B1180	B1181	B1182	B1183	B1184	B1185	B1186	B1187	B1188	B1189	B1190	B1191	B1192	B1193	B1194	B1195	B1196	B1197	B1198	B1199	B1200	B1201	B1202	B1203	B1204	B1205	B1206	B1207	B1208	B1209	B1210	B1211





SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M.

**GENERAL:**

THE INTENT OF THE FOLLOWING SPECIFICATION IS TO PROVIDE A COMPLETE, READY TO INSTALL, 2-WAY PAGING CONTROL, SOLAR POWERED SCHOOL ZONE FLASHING BEACON SYSTEM.

**DESCRIPTION:**

THE PURPOSE OF THIS SPECIFICATION IS TO DESCRIBE THE MINIMUM ACCEPTABLE DESIGN FOR A 2-WAY PAGING SOLAR POWERED, DUAL BEACON SCHOOL ZONE FLASHING BEACON SYSTEM. THE SYSTEM WILL BE DESIGNED TO OPERATE FOR A PERIOD OF 4 HOURS PER DAY, 5 DAYS PER WEEK. THE SYSTEM SHALL BE DESIGNED TO OPERATE WITH A PROBABILITY OF NO LOSS OF LOAD DURING ALL MONTHS OF THE YEAR.

**1. CABINET**

THE CABINET SHALL BE MANUFACTURED OF 0.125" SHEET ALUMINUM. NOMINAL CABINET DIMENSIONS SHALL BE 28.25" H x 15.5" W x 14.75" D. THE CABINET SHALL BE A TWO (2) COMPARTMENT TYPE, THE BOTTOM COMPARTMENT SHALL HAVE A NEOPRENE GASKET SEAL SO AS TO PREVENT BATTERY GASES FROM SEEPING INTO THE TOP COMPARTMENT. THE CABINET SHALL HAVE WIRE SCREENED INSECT PROOF LOUVERS ON EACH SIDE OF BOTH COMPARTMENTS FOR VENTILATION. THE LOUVERS SHALL BE DESIGNED TO NOT ALLOW ANY RAIN TO ENTER THE CABINET. ON THE BOTTOM OF THE CABINET THERE SHALL BE TWO SCREENED INSECT PROOF DRAIN HOLES.

THE DOOR SHALL BE A SINGLE UNIT WITH A CONTINUOUS PIANO HINGE RIVETED TO THE DOOR AND THE CABINET. THE DOOR SHALL INCORPORATE A NEOPRENE GASKET WHICH, WHEN CLOSED, FORMS A SNUG WEATHER TIGHT SEAL. THE DOOR LOCK SHALL BE A STANDARD POLICE LOCK, REINFORCED WITH A STEEL PLATE.

EACH CABINET SHALL BE EQUIPPED WITH THE NECESSARY RIGID TOP AND BOTTOM MOUNT FOR A 4" ID POLE WITH 4.5" OD POLE CLAMPS. ALL NECESSARY HARDWARE FOR PROPER MOUNTING SHALL BE INCLUDED.

**2. CONTROL PANEL**


THE CONTROL PANEL CONTAINING THE ELECTRONICS (SOLAR CHARGE CONTROLLER AND FLASHER) AND 2-WAY PAGING TIME CLOCK SHALL BE MOUNTED IN THE TOP COMPARTMENT OF THE CABINET USING BOLTS WITH WING NUTS FOR QUICK AND EASY REMOVAL. THE SOLAR PANEL BEACON AND BATTERY SHALL BE CONNECTED THROUGH A MAIN WIRING HARNESS VIA A CIRCULAR PIN CONNECTOR (CPC).

THE SOLAR PANELS, LOAD, AND BATTERY SHALL BE FUSED FOR SHORT CIRCUIT PROTECTION AND EASE OF SYSTEM MAINTENANCE.

**SOLAR CHARGE CONTROLLER**

THE SOLAR CHARGE CONTROLLER SHALL CONTROL BATTERY CHARGING THROUGH PULSE WIDTH, MODULATED, TEMPERATURE COMPENSATING, CONSTANT CHARGING ALGORITHM. THE SOLAR CHARGE CONTROLLER WILL HAVE BOTH A LOW VOLTAGE DISCONNECT (LVD) OF 11.4 VDC AND A HIGH VOLTAGE DISCONNECT (HVD) OF 15.5 VDC. A LIQUID CRYSTAL DISPLAY (LCD) OF BATTERY VOLTAGE, SOLAR ARRAY CURRENT, AND LOAD CURRENT WILL BE AVAILABLE WITH THE SOLAR CHARGE CONTROLLER. IN ADDITION, COLORED LED'S WILL DISPLAY BATTERY STATE. A GREEN LED WILL INDICATE FULL CHARGE, AMBER LED WILL INDICATE HALF CHARGE, AND A FLASHING RED LED WILL INDICATE LOW CHARGE. A SOLID GLOWING RED LED WILL INDICATE THE LOAD HAS BEEN DISCONNECTED. A SEPARATE GREEN LED WILL INDICATE THE BATTERY IS BEING CHARGED.

THE SOLAR CHARGE CONTROLLER WILL HAVE A LOAD DISCONNECT PUSHBUTTON. WHEN THE LOAD IS DISCONNECTED THE BUTTON WILL GLOW RED.

 <p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>SOLAR POWERED SCHOOL ZONE FLASHING BEACON SYSTEM NOTES</b>				
	DESIGNED BY JIM PERREN SYBORGA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN BARBER	REVISED BY NONE	CITY STANDARD
	FILE NAME P:\2020\COMMON\STANDARD\SYSTEMS\26\01.07.03	DATE APPROVED 09/01/2009	DATE REVISION XXXXXX	SCALE 1:1	01.07.03

THE SOLAR CHARGE CONTROLLER WILL BE CAPABLE OF OPERATING IN A TEMPERATURE RANGE OF -40 DEGREES C AND +85 DEGREES C.

**FLASHER**

THE FLASHER SHALL BE SOLID STATE, 2 CIRCUIT DEVICE WHICH CONTROLS THE FLASHING SEQUENCE OF THE BEACON. THE FLASHER WILL HAVE A SELECTABLE FLASH RATE OF 35-70 FLASHES PER MINUTE AND WILL FLASH A DUTY CYCLE OF 50% ON AND 50% OFF.

THE FLASHER WILL BE CAPABLE OF OPERATING IN A TEMPERATURE RANGE OF -40 DEGREES C AND +85 DEGREES C.

**3. 2-WAY PAGING TIME CLOCK**

THE 2-WAY PAGING TIME CLOCK WILL CONTAIN BOTH THE CAPABILITY OF RECEIVING PAGES FROM A CENTRAL LOCATION AND RESPONDING VIA EMAIL TO A DESIGNATED ADDRESS. THE 2-WAY PAGING TIME CLOCK WILL BE ABLE TO RECEIVE AND STORE AN ANNUAL PROGRAM OF UP TO 960 CHARACTERS INCLUDING STEPS AND EXCEPTIONS, AN ALTERNATE PROGRAM, AND AN IMMEDIATE PROGRAM. THE 2-WAY PAGING TIME CLOCK WILL SELECT THE APPROPRIATE PROGRAM AND/OR EXCEPTION FOR TODAY AND WILL RUN THAT PROGRAM. THE 2-WAY PAGING TIME CLOCK WILL ALSO HAVE THE CAPABILITY OF BEING PROGRAMMED VIA A KEY PAD ON THE TIME CLOCK.

THE 2-WAY PAGING TIME CLOCK WILL CONTAIN WATCH DOG CIRCUITS TO ENSURE THAT THE CLOCK RESETS ITSELF SHOULD IT FAULT FOR A PERIOD GREATER THAN SPECIFIED. THE CLOCK WILL CONTAIN 2 OUTPUT CIRCUITS, EACH CIRCUIT RATED AT 16 AMPS. THE CLOCK WILL BE CAPABLE OF BEING POWERED BY EITHER DC OR AC POWER. THE CLOCK WILL CONTAIN NON-VOLATILE MEMORY SO THAT A POWER FAILURE WILL NOT ERASE THE PROGRAM. THE CLOCK WILL HAVE CAPACITIVE BACKUP POWER RATED AT 168 HOURS IN THE EVENT OF POWER FAILURE. THE CLOCK WILL BE CAPABLE OF LEAP YEAR COMPENSATION AND WILL AUTOMATICALLY COMPENSATE FOR DAYLIGHT SAVINGS TIME.

SYSTEM SOFTWARE WILL BE PROVIDED FOR OPERATION OF THE SYSTEM. FUNCTIONS AND FEATURES OF THE SOFTWARE ARE DESCRIBED IN SECTION 3.1.

THE 2-WAY PAGING TIME CLOCK WILL BE CAPABLE OF OPERATING IN A TEMPERATURE RANGE OF -40 DEGREES C AND +85 DEGREES C

**3.1 2-WAY PAGING SYSTEM SOFTWARE**

THE 2-WAY PAGING SYSTEM SOFTWARE WILL RUN ON A STANDARD PC USING A WINDOWS 2000, XP, OR VISTA OPERATING SYSTEM.

THE SOFTWARE WILL HAVE THE CAPABILITY TO ASSIGN 99 GROUPS WITH 99 UNITS PER GROUP. THE SOFTWARE WILL ALLOW THE USER TO CREATE AN ANNUAL PROGRAM WITH EXCEPTIONS FOR EACH GROUP AND WILL ALLOW THE USER TO COPY PROGRAMS FROM ONE GROUP TO ANOTHER GROUP. THE SOFTWARE WILL ALLOW THE USER TO CREATE AN ALTERNATE PROGRAM WHICH OVERRIDES THE ANNUAL PROGRAM FOR A SPECIFIED PERIOD. THE SOFTWARE WILL ALLOW THE USER TO CREATE AN IMMEDIATE EXECUTABLE PROGRAM WHICH OPERATES ONLY ON THE DATE OF THE PROGRAM. THE SOFTWARE WILL ALSO ALLOW THE USER TO CONTROL THE CLOCK MANUALLY.

THE SOFTWARE WILL ALLOW THE USER TO PRINT A HARDCOPY LISTING OF ALL SCHOOL PROGRAMS. IT WILL ALLOW THE USER TO PRINT A LISTING OR ALL REMOTE SITES. IT WILL MAINTAIN A HISTORY OF THE LAST 500 PAGE MESSAGES SENT TO REMOTE UNITS.

THE SOFTWARE WILL ALLOW THE USER TO ADDRESS AND SEND A PAGE MESSAGE TO ALL UNITS WITH ONE COMMAND, ANY GROUP OF UNITS WITH ONE COMMAND, OR A SINGLE UNIT WITH ONE COMMAND.

 <p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>SOLAR POWERED SCHOOL ZONE FLASHING BEACON SYSTEM NOTES</b>				
	DESIGNED BY JIM PERREN SYBORGA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN BARBER	REVISED BY NONE	CITY STANDARD
	FILE NAME P:\2020\COMMON\STANDARD\SYSTEMS\26\01.07.04	DATE APPROVED 09/01/2009	DATE REVISION XXXXXX	SCALE 1:1	01.07.04

THE SOFTWARE WILL ALLOW THE USER TO CHANGE THE EMAIL ADDRESS TO WHICH THE UNIT RESPONDS, TO SEND AN ANNUAL PROGRAM WITH EXCEPTIONS, TO SEND AN ALTERNATE PROGRAM, TO SEND AN IMMEDIATE PROGRAM, TO TURN ON OR TURN OFF THE RELAYS MANUALLY, TO SEND A TIME UPDATE, OR TO QUERY THE UNITS REGARDING STATUS (DATE, TIME, UNIT IDENTIFICATION, PROGRAM RUNNING, AND RELAY STATE).

**4. SOLAR PANEL**

THE SOLAR PANEL WILL BE HIGH EFFICIENCY, SINGLE CRYSTAL SILICON SOLAR CELLS THAT ARE LAMINATED TO GLASS WITH LAYERS OF ETHYLENE VINYL ACETATE (EVA). THE PANEL WILL BE SELF-CLEANING, IMPACT RESISTANT, HIGHLY TRANSMISSIVE, TEMPERED GLASS SUPERSTATE. THE PANEL MODULE FRAME WILL BE MADE OF EXTRUDED, POLYMER COATED ALUMINUM ALLOY OR SIMILAR APPROVED CONSTRUCTION. THE PANEL MODULE JUNCTION BOX WILL BE A UV RESISTANT, WEATHERPROOF WIRE TERMINATION SYSTEM WHICH HANDLES #14 AWG WIRING. THE MINIMUM ACCEPTABLE WATTAGE OF THE SOLAR PANEL WILL BE 85 WATTS.

**5. BATTERIES**

THE BATTERIES WILL BE A TYPE 27 ABSORBED GLASS MAT (AGM) LEAD ACID TYPE 12 VOLT DC BATTERY. THE BATTERIES WILL CONTAIN VALVE REGULATION WITH A SELF DISCHARGE RATE OF 1% PER MONTH OR LESS (AT 68 DEGREES F). THE BATTERIES WILL UTILIZE T8B1 TERMINALS. THE POSITIVE TERMINAL WILL BE COVERED WITH A RUBBER BOOT TO PROTECT THE BATTERIES FROM ACCIDENTAL SHORTING.

**6. SIGNAL BEACON**

THE SIGNAL BEACONS WILL CONSIST OF THE HEAD, AMBER LENS, VISOR, SIGNAL CLOSURE CAP, AND MOUNTING HARDWARE FOR A 4.5" OD ALUMINUM POLE. THE LENS WILL BE A 12VDC 12" AMBER LED BEACON USING ALL-gop TECHNOLOGY. THE HEAD WILL BE A ONE PIECE POLYCARBONATE SHELL WITH THE POLYCARBONATE DOOR USING STAINLESS STEEL HINGE PINS. THUMBSCREWS WILL HOLD THE DOOR AGAINST THE BODY. THE VISOR SHALL BE A ONE PIECE POLYCARBONATE TUNNEL UNIT WHICH SHALL BE DURALOCKED AT FOUR POINTS TO THE HEAD DOOR.


THE SIGNAL BEACON WILL BE ASSEMBLED AND WIRED AS A UNIT.

**7. POLE AND BASE**

THE POLE WILL BE A SCHEDULE 80 SPUN ALUMINUM 4" ID (4.5" OD) x 16' H. THE BASE WILL BE A BREAKAWAY BASE SIMILAR TO PELCO PART NUMBER PB-5340. A SET OF 4 ANCHOR BOLTS WILL BE PROVIDED. THE ANCHOR BOLTS WILL BE 3/4" x 10" AND WILL BE SIMILAR TO PELCO PART NUMBER PB-5306. A POLE COLLAR ASSEMBLY AND A POLE CAP WILL ALSO BE PROVIDED.

**8. WARRANTY**

A MINIMUM OF ONE YEAR WARRANTY FROM THE DATE OF SYSTEM INSTALLATION WILL BE REQUIRED FOR ALL SYSTEM COMPONENTS. THE BATTERY WILL BE PRO-RATED WARRANTED FOR 5 YEARS. THE SOLAR PANEL WILL BE WARRANTED FOR 20 YEARS. ALL SHIPPING COSTS FOR WARRANTY REPAIRS WILL BE PAID BY THE VENDOR.

 <p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>SOLAR POWERED SCHOOL ZONE FLASHING BEACON SYSTEM NOTES</b>				
	DESIGNED BY JIM PERREN SYBORGA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN BARBER	REVISED BY NONE	CITY STANDARD
	FILE NAME P:\2020\COMMON\STANDARD\SYSTEMS\26\01.07.05	DATE APPROVED 09/01/2009	DATE REVISION XXXXXX	SCALE 1:1	01.07.05

APPROVED

BY: \_\_\_\_\_  
CITY OF PUYALLUP  
ENGINEERING SERVICES

DATE: \_\_\_\_\_

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.  
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

No.	Date	By	Revision Description

Designed By:	Issue Date:
LAB	09/29/2023
Drawn By:	PERMIT
LAB	
Checked By:	Project No.:
GRL	2022-295



**TENW**  
Transportation Engineering NorthWest

Transportation Planning | Design | Traffic Impact & Operations  
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**ASH DEVELOPMENT, LLC**  
**EAST TOWN CROSSING**  
**PUYALLUP, WA**

*FLASHING BEACON STANDARD  
DETAILS - PHASE 1*

**TS-06**  
**SHEET:**  
**OF**