

Set No. \_\_\_\_\_

**Specifications, Proposal,  
and Contract Documents for:**

**2019 NEIGHBORHOOD SAFETY  
PROJECTS  
Job No. 04-20-PW**



**City of Kirkland  
Department of Public Works  
123 Fifth Avenue  
Kirkland, Washington 98033**

**CITY OF KIRKLAND  
DEPARTMENT OF PUBLIC WORKS**

**2019 NEIGHBORHOOD SAFETY PROJECTS  
CIP NO. NMC0062019/NMC0062119  
JOB NO. 04-20-PW**

***Certificate of Engineer:***

The Special Provisions and drawings contained herein have been prepared by or under the direction of the undersigned, whose seal as a Professional Engineer licensed to practice in the State of Washington, is affixed below.



Darrell Smith, P.E.  
Project Engineer

***Approved for Construction:***

Rod Steitzer, P.E.  
Capital Projects Manager



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## **INVITATION TO BID**

Notice is hereby given that the City of Kirkland will receive sealed bids in the office of the Purchasing Agent, City Hall, 123 Fifth Avenue, Kirkland, Washington, at **1:00 pm** local time on **February 20, 2020**, for the project hereinafter referred to as:

### **2019 Neighborhood Safety Projects JOB NO. 04-20-PW**

At said time all bids will be opened and publicly read aloud. Each bid shall be accompanied by a bid proposal deposit in the form of a cashier's check or a bond issued on a form acceptable to your surety made payable to the City of Kirkland for a sum of not less than five percent (5%) of the total bid amount. No bid shall be considered unless accompanied by such bid proposal deposit. Incomplete proposals and proposals received after the time stated above will not be considered. Faxed or emailed responses are not acceptable.

The City of Kirkland in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 USC 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-Assisted Programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined in 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award.

The work to be performed for this project consists of furnishing all labor, tools, material and equipment necessary for completion of the **2019 Neighborhood Safety Projects**. Specific work includes, but is not limited to: the installation of pedestrian walkway safety improvements including installation of pedestrian related pavement markings and signage, rectangular rapid flashing beacons, traffic median island, and pedestrian walkway improvements as shown in the Plans.

- This project includes seven (7) individual and independent work sites, each with an estimated construction cost. The estimated cost for all projects is in a range of \$254,300 to \$314,200.
- Sealed bids with bid bonds are due in the office of the Purchasing Agent at 1:00 pm on February 20, 2020.
- Anticipate Council award of bid at Council Meeting on **March 17, 2020**.
- It is estimated that this project will be completed within 35 working days.
- Questions regarding the Project shall be submitted in writing to Marius Eugenio Jr. via fax (425) 587-3844. To confirm receipt of official fax submissions via email at [meugenio@kirklandwa.gov](mailto:meugenio@kirklandwa.gov). **Questions via phone and email will not be accepted.** Bidders shall submit questions not later than **5:00 pm on February 17, 2020**.

The City will not sell bid packages. Plans, specifications, and addenda may be viewed and obtained online at [www.bxwa.com](http://www.bxwa.com). Click on: "Posted Projects"; "Public Works", "City of Kirkland". The Bidders List is maintained by the Builder's Exchange of Washington, Inc. Registration for the bidder's list may be made online, by phoning (425) 258-1303, or at Builder's Exchange of Washington located at 2607 Wetmore Ave, Everett, WA.

The City reserves the right to reject any and all bids, and to waive any informalities in the bidding, and to make the award to the lowest, responsive, responsible bidder based on the base bid. The Owner, at their discretion, may choose to award any combination of Schedules that best serves the interest of the City.

No bids may be withdrawn within forty-five (45) days after the actual date of the bid opening.

Published: Daily Journal of Commerce – February 5, 2020; February 12, 2020

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# CITY OF KIRKLAND

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**CITY OF KIRKLAND  
INFORMATION FOR BIDDERS**

Bidders must bid on all items contained in the proposal.

The omission or deletion of any bid item will be considered non-responsive and shall be cause for rejection of the bid.

Submit your proposal on the Bid Proposal and other forms which are enclosed, or make a copy of the required forms and submit these documents.

**The following forms must be executed in full with submittal of the bid:**

1. BIDDER RESPONSIBILITY CRITERIA CHECKLIST
2. SUBCONTRACTOR RESPONSIBILITY CRITERIA CHECKLIST
3. PROPOSAL

The lump sum or unit prices must be shown in the spaces provided on the bid schedule.  
Show total bid price in both words and figures on the Proposal.  
The Proposal form must be completed in full, signed and dated.
4. BID BOND

A surety issued bid bond must be executed by the bidder and its surety company. The amount of the bid bond shall be not less than five percent (5%) of the total amount bid and may be shown in dollars or on a percentage basis. (A cashier's check payable to the City of Kirkland and issued for an amount not less than 5% of the total bid may be submitted in lieu of a bid bond.)
5. NONCOLLUSION AFFIDAVIT - Notarized
6. STATEMENT OF BIDDER'S QUALIFICATIONS

This form must be filled in and signed. The owner reserves the right to check all statements and to judge the adequacy of the bidder's qualifications.
7. SUBCONTRACTOR IDENTIFICATION LIST

This form must be completed for HVAC, plumbing, and electrical subcontractors if the estimate exceeds \$1,000,000.

**The following forms are to be executed after the contract is awarded:**

1. CONTRACT

This agreement is to be executed by the successful bidder.
2. PERFORMANCE AND PAYMENT BOND

To be executed by the successful bidder and its surety company.
3. CONTRACTOR'S DECLARATION OF OPTION FOR MANAGEMENT OF STATUTORY RETAINED PERCENTAGE; RETAINED PERCENTAGE ESCROW AGREEMENT

To be executed by the successful bidder based on bidder's selection of option.
4. CERTIFICATES OF INSURANCE

To be executed by the successful bidder and by an acceptable insurance company. The City of Kirkland must be named as an additional insured.
5. STATEMENT(S) OF INTENT TO PAY PREVAILING WAGES

Affidavit certifying all employees of Contractor and Subcontractor shall be paid no less than the Prevailing Wage Rate(s) as determined by the Industrial Statistician of the Washington State Department of Labor and Industries.

**SPECIAL NOTE: Prior to commencing work, the contractor and all subcontractors must have applied and paid for a City of Kirkland business license**

**CITY OF KIRKLAND  
BIDDER RESPONSIBILITY CRITERIA**

It is the intent of City to award a contract to the low responsible bidder. Before award, the bidder must meet the following bidder responsibility criteria to be considered a responsible bidder. The bidder may be required by the City to submit documentation demonstrating compliance with the criteria. The bidder must:

- 1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal;
- 2. Have a current Washington Unified Business Identifier (UBI) number;
- 3. Have:
  - a. Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
  - b. A Washington Employment Security Department number, as required in Title 50 RCW;
  - c. A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
- 4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3). **Meet responsibility criteria in RCW 39.04.350**
- 5. Until December 31, 2017, not have violated more than one time the off-site, prefabricated, non-standard, project specific items reporting requirements of RCW 39.04.370.
- 6. For public works projects subject to the apprenticeship utilization requirements of RCW 39.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the first date of advertising for the project.

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**CITY OF KIRKLAND  
SUBCONTRACTOR RESPONSIBILITY CRITERIA**

- A. The Contractor shall include the language of this section in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. Upon request of the Owner, the Contractor shall promptly provide documentation to the Owner demonstrating that the subcontractor meets the subcontractor responsibility criteria below. The requirements of this section apply to all subcontractors regardless of tier.
  
- B. At the time of subcontract execution, the Contractor shall verify that each of its first-tier subcontractors meets the following bidder responsibility criteria:
  - 1. Have a current certificate of registration in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontract bid submittal;
  
  - 2. Have a current Washington Unified Business Identifier (UBI) number;
  
  - 3. Have:
    - a) Industrial Insurance (workers' compensation) coverage for the subcontractor's employees working in Washington, as required in Title 51 RC
    - b) A Washington Employment Security Department number, as required in Title 50 RCW;
    - c) A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
    - d) An electrical contractor license, if required by Chapter 19.28 RCW;
    - e) An elevator contractor license, if required by Chapter 70.87 RCW.
  
  - 4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065 (3). **Meet responsibility criteria in RCW 39.04.350**
  
  - 5. Until December 31, 2017, not have violated more than one time the off-site, prefabricated, non-standard, project specific items reporting requirements of RCW 39.04.370.
  
  - 6. For public works projects subject to the apprenticeship utilization requirements of RCW 39.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the first date of advertising for the project.

**CITY OF KIRKLAND  
BID PROPOSAL**



**2019 NEIGHBORHOOD SAFETY PROJECTS**

NMC0062019 / NMC0062119

JOB NO. 04-20-PW

**To:** Director of Finance  
City of Kirkland  
123 Fifth Avenue  
Kirkland, Washington 98033

The undersigned, hereinafter called the Bidder, declares that the only persons or parties interested in this proposal are those named herein; that this proposal is in all respects fair and without fraud; that it is made without collusion with any official or employee of the City of Kirkland, hereinafter called the Owner; and that the proposal is made without any connection or collusion with any person making another proposal on this contract.

The bidder further declares that it has carefully examined the contract documents for the construction of the project; that it has personally inspected the site; that it has satisfied itself as to the quantities involved, including materials and equipment and conditions of work involved, including the fact that the description of the quantities of work materials, as included herein, is brief and is intended only to indicate the general nature of the work and to identify the said quantities with the detailed requirements of the contract documents; and that this proposal is made according to the provisions and under the terms of the contract documents, which documents are hereby made a part of this proposal.

The bidder further agrees that it has exercised its own judgment regarding the interpretation of subsurface information and has utilized all data which it believes pertinent from the engineer-architect, owner, and other sources in arriving at its conclusions.

The bidder agrees to hold its bid proposal open for 45 days after the actual date of bid opening and to accept the provisions of the Instructions to Bidders regarding disposition of bid bond.

The bidder agrees that if this proposal is accepted, it will, within ten (10) calendar days after notification of acceptance, execute the contract with the Owner in the form of contract included in the contract documents, and will, at the time of execution of the contract, deliver to the Owner the Performance and Payment Bond and all Certificates of Insurance required therein, and will, to the extent of its proposals, furnish all machinery, tools, apparatus, and other means of construction and do the work in the manner, in the time, and according to the methods as specified in the contract documents and required by the engineer or other project manager designated thereunder.

The bidder further agrees, if awarded the contract, to begin work within ten (10) calendar days after the date of the execution of the contract and to complete the construction within the time specified in Section 1-08.5 of the Special Provisions.

In the event the bidder is awarded the contract and shall fail to complete the work within the time limit or extended time limit agreed upon as more particularly set forth in the contract documents, liquidated damages shall be paid to the Owner per the specifications contained in the contract documents.

**MUST BE SUBMITTED WITH PROPOSAL**

The bidder further proposes to accept as full payment for the work proposed herein, the amounts computed under the provisions of the contract documents and based upon the lump sum and unit price amounts entered by the bidder for the various bid items included in the Bid Schedule. The bidder further agrees the lump sum and unit prices entered for the various bid items included in the Bid Schedule include all use taxes, overhead, profit, bond premiums, insurance premiums and all other miscellaneous and incidental expenses as well as all costs of materials, labor, tools and equipment required to perform and complete the work.

**Within the three-year period immediately preceding the date of the bid solicitation for this Project, bidder has not been determined by a final and binding citation and notice of assessment issued by the department of labor and industries or through a civil judgment entered by a court of limited or general jurisdiction to have willfully violated, as defined in RCW 49.48.082, any provision of chapter 49.46, 49.48, or 49.52 RCW.**

The undersigned bids and agrees to complete all construction of the **2019 NEIGHBORHOOD SAFETY PROJECTS; JOB NO. 04-20-PW** for the following:

Schedule A Total Computed Price ( <i>in figures</i> ):	\$ _____
Schedule B Total Computed Price ( <i>in figures</i> ):	\$ _____
Schedule C Total Computed Price ( <i>in figures</i> ):	\$ _____
Schedule D Total Computed Price ( <i>in figures</i> ):	\$ _____
Schedule E Total Computed Price ( <i>in figures</i> ):	\$ _____
Schedule F Total Computed Price ( <i>in figures</i> ):	\$ _____
Schedule G Total Computed Price ( <i>in figures</i> ):	\$ _____

Total Computed Price (*in figures*): \$ \_\_\_\_\_

Washington State Sales Tax 10% (*in figures*): \$not applicable

Total Bid (*in figures*): \$ \_\_\_\_\_

Total Bid (*in words*): \_\_\_\_\_

Receipt of Addenda No(s). \_\_\_\_\_ is hereby acknowledged.

**I certify (or declare) under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct:**

\_\_\_\_\_  
CONTRACTOR (Firm Name)

\_\_\_\_\_  
Location or Place Executed: (City, State)

\_\_\_\_\_  
By

\_\_\_\_\_  
Name and title of person signing

**MUST BE SUBMITTED WITH PROPOSAL**

\_\_\_\_\_  
(Indicate whether Contractor is Partnership,  
Corporation, or Sole Proprietorship)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Washington State Contractor's  
Registration Number

\_\_\_\_\_  
Contractor's Industrial Insurance  
Account Number

\_\_\_\_\_  
Employment Security Identification  
Number

\_\_\_\_\_  
Uniform Business Identification  
(UBI) Number

Contractor's Address:

\_\_\_\_\_

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_

\_\_\_\_\_  
Fax Number

\_\_\_\_\_

\_\_\_\_\_  
EMAIL

\*\* Bid proposal to be submitted in a **sealed envelope** marked "**Bid Enclosed**" for  
**2019 NEIGHBORHOOD SAFETY PROJECTS, JOB NO. 04-20-PW.**

**MUST BE SUBMITTED WITH PROPOSAL**

**CITY OF KIRKLAND**  
**BID SCHEDULE A – PART OF BASE BID**  
2019 NEIGHBORHOOD SAFETY PROJECTS  
JOB NO. 04-20-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink.

SCHEDULE A – (19NSP01) - RAISED SIDEWALK ON CORNER OF NE 134TH ST AT 87TH AVE NE

<b>Item No.</b>	<b>Item Description</b>	<b>Spec Ref.</b>	<b>Est. Qty.</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Amount</b>
A1	Minor Changes	1-04.4 (1)	1	FA	\$ 5,000.00	\$ 5,000.00
A2	Construction Surveying	1-05.4	1	LS		
A3	SPCC Plan	1-07.15	1	LS		
A4	Mobilization	1-09.7	1	LS		
A5	Project Temporary Traffic Control	1-10	1	LS		
A6	Clearing and Grubbing	2-01	1	LS		
A7	Saw Cutting	2-02.3	76	LF		
A8	Removing Asphalt Conc. Pavement	2-02.3	88	SY		
A9	HMA CL. 1/2in. PG. 64-22	5-04	3	TN		
A10	HMA Transition	5-04	2	EA		
A11	Structure Excavation Class B Incl. Haul	7-01	5	CY		
A12	Schedule A Storm Sewer Pipe 12 in. Diameter	7-04	55	LF		
A13	Plug Existing Pipe	7-04	2	EA		
A14	Catch Basin Type 2	7-05	1	EA		
A15	Solid Round Lids	7-05	2	EA		
A16	Shoring or Extra Excavation Class B	7-05	140	SF		
A17	Erosion/Water Pollution Control	8-01	1	LS		
A18	Cement Conc. Traffic Curb and Gutter, Type A	8-04	70	LF		
A19	Cement Conc. Curb Ramp - Parallel	8-14	2	EA		
A20	Tactile Truncated Domes	8-14	50	SF		
A21	Cement Conc. Sidewalk	8-14	17	SY		
A22	Permanent Signage	SP 8-21	2	EA		
A23	18" Thermoplastic Stop Bar	8-22	10	LF		
A24	Remove Painted Line	8-22	305	LF		
A25	Paint Line	8-22	305	LF		

**MUST BE SUBMITTED WITH PROPOSAL**

A26	Plastic Crosswalk Line	8-22	38	SF		
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**SCHEDULE A TOTAL COMPUTED PRICE: \$ \_\_\_\_\_**

**CITY OF KIRKLAND  
BID SCHEDULE B – PART OF BASE BID**

2019 NEIGHBORHOOD SAFETY PROJECTS  
JOB NO. 04-20-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink.

**SCHEDULE B – (19NSP02) - RAPID FLASHING BEACON ON NE 132ND ST AT 129TH AVE NE**

Item No.	Item Description	Spec Ref.	Est. Qty.	Unit	Unit Price	Amount
B1	Minor Changes	1-04.4 (1)	1	FA	\$ 5,000.00	\$ 5,000.00
B2	Construction Surveying	1-05.4	1	LS		
B3	SPCC Plan	1-07.15	1	LS		
B4	Mobilization	1-09.7	1	LS		
B5	Project Temporary Traffic Control	1-10	1	LS		
B6	Clearing and Grubbing	2-01	1	LS		
B7	Trim Vegetation	2-01.1 (5)	1	LS		
B8	Saw Cutting	2-02.3	12	LF		
B9	Removing Cement Conc. Pedestrian Curb	2-02.3	30	LF		
B10	Removing Cement Conc. Curb and Gutter	2-02.3	8	LF		
B11	Removing Asphalt Conc. Pavement	2-02.3	2	SY		
B12	HMA CL. 1/2in. PG. 64-22	5-04	1	TN		
B13	Erosion/Water Pollution Control	8-01	1	LS		
B14	Cement Conc. Pedestrian Curb	8-04	53	LF		
B15	Removing Cement Conc. Sidewalk	8-14	19	SY		
B16	Tactile Truncated Domes	8-14	10	SF		
B17	Cement Conc. Curb Ramp - Combination	8-14	1	EA		
B18	Curb Mounted RRFB Assembly (AC)	8-20	2	EA		
B19	Conduit Trench	8-20	79	LF		
B20	Riser Conduit	8-20.3 (5)	1	LS		

**SCHEDULE B TOTAL COMPUTED PRICE: \$ \_\_\_\_\_**

**CITY OF KIRKLAND  
BID SCHEDULE C – PART OF BASE BID**

2019 NEIGHBORHOOD SAFETY PROJECTS  
JOB NO. 04-20-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink.

SCHEDULE C – (19NSP03) - TRAFFIC MEDIAN ISLAND ON SLATER AVE NE AT NE 119TH ST

<b>Item No.</b>	<b>Item Description</b>	<b>Spec Ref.</b>	<b>Est. Qty.</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Amount</b>
C1	Minor Changes	1-04.4 (1)	1	FA	\$ 5,000.00	\$ 5,000.00
C2	Construction Surveying	1-05.4	1	LS		
C3	SPCC Plan	1-07.15	1	LS		
C4	Mobilization	1-09.7	1	LS		
C5	Project Temporary Traffic Control	1-10	1	LS		
C6	Saw Cutting	2-02.3	38	LF		
C7	Removing Asphalt Conc. Pavement	2-02.3	15	SY		
C8	HMA CL. 1/2in. PG. 64-22	5-03	1.5	TN		
C9	Stamp HMA	5-04	8	SY		
C10	Erosion/Water Pollution Control	8-01	1	LS		
C11	Mountable Median Curb	8-04	40	LF		
C12	Permanent Signage	8-21	2	EA		
C13	Painted Line	8-22	25	LF		
C14	Raised Pavement Markers - Type 2 - Yellow	8-22	6	EA		

**SCHEDULE C TOTAL COMPUTED PRICE: \$ \_\_\_\_\_**

**CITY OF KIRKLAND  
BID SCHEDULE D – PART OF BASE BID**

2019 NEIGHBORHOOD SAFETY PROJECTS  
JOB NO. 04-20-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink.

**SCHEDULE D – (19NSP04) - INTERSECTION IMPROVEMENT ON NE 87TH ST AT 114TH AVE NE**

<b>Item No.</b>	<b>Item Description</b>	<b>Spec Ref.</b>	<b>Est. Qty.</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Amount</b>
D1	Minor Changes	1-04.4 (1)	1	FA	\$ 5,000.00	\$ 5,000.00
D2	Construction Surveying	1-05.4	1	LS		
D3	SPCC Plan	1-07.15	1	LS		
D4	Mobilization	1-09.7	1	LS		
D5	Project Temporary Traffic Control	1-10	1	LS		
D6	Erosion/Water Pollution Control	8-01	1	LS		
D7	Permanent Signage	8-21	6	EA		
D8	Plastic Crosswalk Line	8-22	316	SF		
D9	18" Thermoplastic Stop Bar	8-22	62	LF		
D10	Painted Line	8-22	906	LF		
D11	Tubular Markers (White w/ Reflective Tape) Mounted to Pavement Surface	8-22	13	EA		
D12	Removing Painted Line	8-22	239	LF		
D13	Plastic Traffic Arrow	8-22	5	EA		
D14	Custom Thermoplastic Tactical Urbanism	8-27	300	SF		
D15	Red Curb Paint	8-28	273	LF		

**SCHEDULE D TOTAL COMPUTED PRICE: \$ \_\_\_\_\_**

**CITY OF KIRKLAND  
BID SCHEDULE E – PART OF BASE BID**

2019 NEIGHBORHOOD SAFETY PROJECTS  
JOB NO. 04-20-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink.

SCHEDULE E – (19NSP05) - WALKWAY ON NE 120TH ST BETWEEN 93RD PL NE AND 96TH AVE N

<b>Item No.</b>	<b>Item Description</b>	<b>Spec Ref.</b>	<b>Est. Qty.</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Amount</b>
E1	Minor Changes	1-04.4 (1)	1	FA	\$ 5,000.00	\$ 5,000.00
E2	Construction Surveying	1-05.4	1	LS		
E3	SPCC Plan	1-07.15	1	LS		
E4	Mobilization	1-09.7	1	LS		
E5	Project Temporary Traffic Control	1-10	1	LS		
E6	Permanent Signage	8-21	4	EA		
E7	Remove Painted Line	8-22	1452	LF		
E8	Paint Line	8-22	743	LF		
E9	Plastic Pedestrian Lane Markings	8-22	4	EA		
E10	6" Profiled Plastic Lane Line	8-22	638	LF		

**SCHEDULE E TOTAL COMPUTED PRICE: \$ \_\_\_\_\_**

**CITY OF KIRKLAND  
 BID SCHEDULE F – PART OF BASE BID**

2019 NEIGHBORHOOD SAFETY PROJECTS  
 JOB NO. 04-20-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink.

SCHEDULE F – (19NSP06) - CROSSWALK ON LAKEVIEW DRIVE NORTH OF NE 64TH ST

Item No.	Item Description	Spec Ref.	Est. Qty.	Unit	Unit Price	Amount
F1	Minor Changes	1-04.4 (1)	1	FA	\$ 5,000.00	\$ 5,000.00
F2	Construction Surveying	1-05.4	1	LS		
F3	SPCC Plan	1-07.15	1	LS		
F4	Mobilization	1-09.7	1	LS		
F5	Project Temporary Traffic Control	1-10	1	LS		
F6	Clearing and Grubbing	2-01	1	LS		
F7	Removal of Structures and Obstructions	2-02	1	LS		
F8	Saw Cutting	2-02.3	49	LF		
F9	Removing Asphalt Conc. Pavement	2-02.3	8	SY		
F10	Removing Cement Conc. Curb and Gutter	2-02.3	34	LF		
F11	HMA CL. 1/2in. PG. 64-22	5-04	3	TN		
F12	Erosion/Water Pollution Control	8-01	1	LS		
F13	Cement Conc. Pedestrian Curb	8-04	37	LF		
F14	Removing Cement Conc. Sidewalk	8-14	25	SY		
F15	Tactile Truncated Domes	8-14	20	SF		
F16	Cement Conc. Curb Ramp - Parallel	8-14	1	EA		
F17	Cement Conc. Curb Ramp - Combination	8-14	1	EA		
F18	Cement Conc. Sidewalk	8-14	7	SY		
F19	Permanent Signage	8-21	4	EA		
F20	Plastic Crosswalk Line	8-22	120	SF		
F21	Remove Bike Lane Symbol	8-22	1	LS		
F22	Plastic Bicycle Lane Markings	8-22	1	LS		
F23	Handrail Restoration	8-26	30	LF		

**SCHEDULE F TOTAL COMPUTED PRICE: \$ \_\_\_\_\_**

**CITY OF KIRKLAND  
BID SCHEDULE F – PART OF BASE BID**

2019 NEIGHBORHOOD SAFETY PROJECTS  
JOB NO. 04-20-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink.

SCHEDULE G – (19NSP07) - RAPID FLASHING BEACON ON 108TH AVE AT NE 46TH ST

<b>Item No.</b>	<b>Item Description</b>	<b>Spec Ref.</b>	<b>Est. Qty.</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Amount</b>
G1	Minor Changes	1-04.4 (1)	1	FA	\$ 5,000.00	\$ 5,000.00
G2	Construction Survey	1-05.4	1	LS		
G3	SPCC Plan	1-07.15	1	LS		
G4	Mobilization	1-09.7	1	LS		
G5	Temporary Traffic Control	1-10	1	LS		
G6	Trim Vegetation	2-01.1 (5)	1	LS		
G7	Saw Cutting	2-02.3	35	LF		
G8	Removing Cement Conc. Pedestrian Curb	2-02.3	34	LF		
G9	Removing Cement Conc. Curb and Gutter	2-02.3	8	LF		
G10	Removing Asphalt Conc. Pavement	2-02.3	11	SY		
G11	HMA CL. 1/2in. PG. 64-22	5-04	1	TN		
G12	Erosion/Water Pollution Control	8-01	1	LS		
G13	Cement Conc. Pedestrian Curb	8-04	45	LF		
G14	Cement Conc. Sidewalk	8-14	7	SY		
G15	Tactile Truncated Domes	8-14	38	SF		
G16	Cement Conc. Curb Ramp - Combination	8-14	1	EA		
G17	Curb Mounted RRFB Assembly (AC)	8-20	3	EA		
G18	Conduit Trench	8-20	62	LF		

**SCHEDULE G TOTAL COMPUTED PRICE: \$ \_\_\_\_\_**



**BID DEPOSIT**

Herewith find deposit in the form of a cashier's check or certified check in the amount of \$ \_\_\_\_\_ which amount is not less than five percent (5%) of the total bid.

SIGN HERE \_\_\_\_\_

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS:

That we, \_\_\_\_\_, as Principal, and \_\_\_\_\_, as Surety, are held and firmly bound unto the City of Kirkland, as Obligee, in the penal sum of \_\_\_\_\_ dollars, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, by these presents.

The condition of this obligation is such that if the Obligee shall make any award to the Principal for

\_\_\_\_\_ Project Name

\_\_\_\_\_ Job Number

according to the terms of the proposal or bid made by the Principal therefor, and the Principal shall duly make and enter into a contract with the Obligee in accordance with the terms of said proposal or bid and award and shall give bond for faithful performance thereof, with Surety or Sureties approved by the Obligee; or if the Principal shall, in case of failure to do so, pay and forfeit to the Obligee the penal amount of the deposit specified in the call for bids, then this obligation shall be null and void; otherwise it shall be and remain in full force and effect and the Surety shall forthwith pay and forfeit to the Obligee, as penalty and liquidated damages, the amount of this bond.

SIGNED, SEALED AND DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

PRINCIPAL:

SURETY:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Note: If a Bid Bond is provided, it must be accompanied by a power of attorney which appoints the Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this Bid Bond.



**CITY OF KIRKLAND  
STATEMENT OF BIDDER'S QUALIFICATIONS**

Contractor Name: \_\_\_\_\_ Contact: \_\_\_\_\_

Business Address: \_\_\_\_\_

Business phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Number of years the Contractor has been engaged in the construction business under the present firm name: \_\_\_\_\_

Describe the general character of work performed by your company: \_\_\_\_\_

List five projects of a similar nature which Contractor has completed within the last 10 years. Include contract amount and contact information for references:

Project Name	Amount	Owner/Agency	Contact	Phone	Year Completed

List major equipment anticipated to be used on this project; indicate whether Contractor-owned or to be leased from others: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Bank reference(s): \_\_\_\_\_

Washington State Contractor Registration No.: \_\_\_\_\_

Uniform Business Identification No.: \_\_\_\_\_

I certify that other contracts now in progress or hereafter obtained will not interfere with timely performance of the City of Kirkland project should I become the successful bidder.

Authorized Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_ Title: \_\_\_\_\_

**CITY OF KIRKLAND  
SUBCONTRACTOR IDENTIFICATION FOR CONTRACTS ESTIMATED TO BE  
IN EXCESS OF ONE MILLION DOLLARS (\$1,000,000.00)**

RCW 39.30.060 requires the following:

"Every invitation to bid on a prime contract that is **expected** to cost one million dollars or more for the construction, alteration, or repair of any public building or public work of the state or a state agency or municipality as defined under RCW 39.04.010 ... shall require each prime contract bidder to submit as part of the bid, or within one hour after the published bid submittal time [*see note below*], the names of the subcontractors with whom the bidder, if awarded the contract, will subcontract for performance of the work of: HVAC (heating, ventilation, and air conditioning); plumbing as described in chapter 18.106 RCW; and electrical as described in chapter 19.28 RCW, or to name itself for the work. The prime contract bidder shall not list more than one subcontractor for each category of work identified, unless subcontractors vary with bid alternates, in which case the prime contract bidder must indicate which subcontractor will be used for which alternate. Failure of the prime contract bidder to submit as part of the bid the names of such subcontractors or to name itself to perform such work or the naming of two or more subcontractors to perform the same work shall render the prime contract bidder's bid non-responsive and, therefore, void."

***NOTE: The City of Kirkland has elected not to allow bidders to submit the information required by RCW 39.30.060 after the published bid submittal time. A proposal will be considered irregular and will be rejected if the bidder does not provide the above list as part of its proposal when submitting its bid.***

Each bidder shall submit a list of:

1. HVAC, plumbing, and electrical subcontractors; and
2. The specific items of work those subcontractors will perform on the contract; and
3. The specific items of work that will be performed by the bidder on the contract.

**CITY OF KIRKLAND  
SUBCONTRACTOR IDENTIFICATION LIST**

\*REQUIRED IF ESTIMATE AMOUNT EXCEEDS \$1,000,000 (Reference RCW 39.30.060 RCW)

**Proposed Subcontractors and items of work to be performed:**

Subcontractor Name: \_\_\_\_\_

Item Numbers: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- make additional pages if necessary -

**Work to be performed by Prime Contractor:**

Item Numbers: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## **CITY OF KIRKLAND BIDDER'S CHECKLIST**

1. Have you reviewed the Bidder Responsibility and Subcontractor Responsibility Criteria?
2. Have you enclosed a bid bond or certified check with your bid? (Must be at least 5% of the total amount bid)
3. Have you entered a bid amount for all items and all schedules?
4. Do the written amounts of the proposal agree with the amounts shown in the figures?
5. Have you acknowledged receipt of addenda?
6. Has the proposal been properly completed and signed?
7. Have you completed the Statement of Bidder's Qualifications?
8. Have you completed the City of Kirkland Non-collusion Affidavit?
9. Have you completed the Subcontractor Identification List? (This is to be completed for HVAC, plumbing, and electrical subcontractors if the estimate amount exceeds \$1,000,000.)
10. Bid proposal to be submitted in a sealed envelope marked "Bid Enclosed" for:

# **CONTRACT**

## **INFORMATION ONLY**

The following forms must be executed and submitted by the successful bidder within ten (10) calendar days following Notice of Award.



# CITY OF KIRKLAND

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**CITY OF KIRKLAND**  
**PUBLIC WORKS AGREEMENT**  
**2019 NEIGHBORHOOD SAFETY PROJECTS**  
JOB NO.04-20-PW

This agreement is made and entered into this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between **CONTRACTOR NAME**, hereinafter called the "Contractor" and the City of Kirkland, hereinafter called the "Owner."

**WITNESSETH:**

Whereas, pursuant to the invitation of the Owner extended through an officially published "Invitation to Bid," the Contractor did, in accordance therewith, file with the Owner a proposal containing an offer which was invited by said notice, and

Whereas, the Owner has heretofore determined that said offer was the lowest responsible bid submitted; now, therefore, it is agreed:

Section 1. That Contractor shall comply in every way with the requirements of those certain specifications entitled: "2019 NEIGHBORHOOD SAFETY PROJECTS, Job No. 04-20-PW"

The further terms, conditions and covenants of the contract are set forth in the following contract documents which are hereby made a part of this agreement by actual attachment or by this reference thereto as follows:

- A. Any Invitation to Bid, as published by the Owner.
- B. Any Specifications prepared for this project by the Owner and named above by title.
- C. Any detailed Plans listed and described in said Specifications, together with those which may be issued as supplements thereof.
- D. The bid proposals submitted by the Contractor as to those items and/or alternatives accepted by the Owner.
- E. Any change orders, additions or deletions, if any, issued by the Owner.

Section 2. In consideration of faithful compliance with the terms and conditions of this agreement, whether set forth herein or incorporated by reference, the Owner shall pay to the Contractor, at the times and in the manner provided in said specifications, the total sum of \_\_\_\_\_ dollars (**\$\_\_\_\_\_**) which sum is subject, however, to increase or decrease in such proportion as the quantities named in said proposal are so changed, all as in said specifications and proposal provided.

In witness whereof, said Contractor and said Owner have caused this agreement to be executed on the day and year first written above.

\_\_\_\_\_  
CONTRACTOR (Firm Name)

\_\_\_\_\_  
Signature of authorized officer

\_\_\_\_\_  
Name and title of officer (print or type)





**PERFORMANCE BOND**

**Surety to have an A.M. Best rating of A:-VII or better.**

Bond No. \_\_\_\_\_

KNOW ALL PERSONS BY THESE PRESENTS, that **CONTRACTOR NAME**, as Principal, and \_\_\_\_\_, (insert name of surety), as Surety, a corporation duly organized under the laws of the State of \_\_\_\_\_, (insert Surety's state of incorporation), and authorized to do business as a surety in the State of Washington, are held and firmly bound unto the City of Kirkland (City) in the sum of \_\_\_\_\_ dollars (\$\_\_\_\_\_), lawful money of the United States of America, plus the total amount of extra orders issued by the City to the Principal pursuant to the terms of the Contract referred to in the next succeeding paragraph hereof, for the payment whereof Principal and Surety bind ourselves, and our heirs, executors, administrators, representatives, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has been awarded, and is about to enter into, a written Contract with the City for NOW, THEREFORE, the condition of this bond is such that:

1. If the Principal shall completely and faithfully perform all of its obligations under the Contract, including any warranties required thereunder, and all modifications, amendments, additions, and alterations thereto, including modifications which increase the contract price or time for completion, with or without notice to the surety; and
2. If the Principal shall indemnify and hold the City harmless from any and all losses, liability, damages, claims, judgments, liens, costs, and fees of any type that the City may be subject to because of the failure or default of the Principal in the performance of any of the terms, conditions, or obligations of the Contract, including all modifications, amendments, additions, and alterations thereto, and any warranties required thereunder;

THEN THIS obligation shall be null and void; otherwise to remain in full force and effect. If the City shall declare Principal to be in default of the Contract, and shall so notify Surety, Surety shall, within a reasonable time which shall not exceed 14 days, except for good cause shown, notify the City in writing of the manner in which surety will satisfy its obligations under this Bond.

THEN THIS obligation shall be null and void; otherwise to remain in full force and effect. If the City shall declare Principal to be in default of the Contract, and shall so notify Surety, Surety shall, within a reasonable time which shall not exceed 14 days, except for good cause shown, notify the City in writing of the manner in which surety will satisfy its obligations under this Bond.

Nonpayment of the Bond premium will not invalidate this Bond nor shall the City be obligated for the payment thereof. The Surety hereby waives notice of any modification of the Contract or extension of time made by the City.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2\_\_\_\_\_.

Principal: \_\_\_\_\_ Surety: \_\_\_\_\_

By: \_\_\_\_\_ By: \_\_\_\_\_

Title: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_ Address: \_\_\_\_\_

City/Zip: \_\_\_\_\_ City/Zip: \_\_\_\_\_

Telephone: ( ) \_\_\_\_\_ Telephone: ( ) \_\_\_\_\_

Note: A power of attorney must be provided which appoints the Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this performance bond.



**LABOR, MATERIAL AND TAXES PAYMENT BOND**

**Surety to have an A.M. Best rating of A-:VII or better.**

**Bond No.** \_\_\_\_\_

KNOW ALL PERSONS BY THESE PRESENTS, that, **CONTRACTOR NAME**, as Principal, and \_\_\_\_\_, (insert name of surety), as Surety, a corporation duly organized under the laws of the State of \_\_\_\_\_ (insert Surety's state of incorporation), and authorized to do business as a surety in the State of Washington, are held and firmly bound unto the City of Kirkland (City) for the use and benefit of claimants as hereinafter defined, in the sum of \_\_\_\_\_ **Dollars (\$\_\_\_\_\_)**, lawful money of the United States of America, plus the total amount of any extra orders issued by the City, for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, representatives, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has been awarded, and is about to enter into, a Contract with City of Kirkland for **2019 NEIGHBORHOOD SAFETY PROJECTS, Job # 04-20-PW**, which contract is by this reference made a part hereof;

WHEREAS, the contract is a public works contract, subject to the provisions of RCW Titles 39 and 60;

NOW, THEREFORE, the conditions of this obligation are such that, if the Principal shall promptly make payment to all claimants as hereinafter defined, for (a) all labor and material used or reasonably required for use in the performance of the contract and (b) all taxes, increases, and penalties incurred on the above-referenced contract under Titles 50, 51, and 82 RCW which may be due, then this obligation shall be void; otherwise, it shall remain in full force and effect, subject, however, to the following conditions: A claimant is defined as and includes (a) a person claiming to have supplied labor or materials for the prosecution of the work provided for in the contract, including any person having direct contractual relationship with the contractor furnishing the bond or direct contractual relationship with any subcontractor, or an assignee of such person, (b) the state with respect to taxes incurred on the above-referenced contract under Titles 50, 51, and 82 RCW which may be due and (c) any other person or entity as allowed or required by law.

3. The Principal and Surety hereby jointly and severally agree with the City that every claimant as herein defined, who has not been paid in full prior to Final Acceptance of the project, or materials were furnished by such claimant, has an action on this bond for such sum or sums as may be justly due claimant, and may have execution thereon. The City shall not be liable for the payment of any costs or expenses of any such suit or action.

(Form continues on next page)

4. No suit or action shall be commenced hereunder by any claimant (except the state with respect to taxes, increases, and penalties incurred on the above-referenced contract under Titles 50, 51, and 82 RCW which may be due) unless the claimant has sent the written notice required under RCW Title 39 to the Principal and to the City's Purchasing Agent by registered or certified mail, or by hand delivery, no later than 30 days after Final Acceptance of the Project.

The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against the improvement, whether or not claim for the amount of such lien be presented under and against this bond.

The Surety hereby waives notice of any modification of the contract or extension of time made by the City.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2\_\_\_\_  
Principal: \_\_\_\_\_ Surety: \_\_\_\_\_  
By: \_\_\_\_\_ By: \_\_\_\_\_  
Title: \_\_\_\_\_ Title: \_\_\_\_\_  
Address: \_\_\_\_\_ Address: \_\_\_\_\_  
City/Zip: \_\_\_\_\_ City/Zip: \_\_\_\_\_  
Telephone: ( ) \_\_\_\_\_ Telephone: ( ) \_\_\_\_\_

Note: A power of attorney must be provided which appoints the Surety's true and lawful attorney-in-fact to make, execute, seal and deliver this performance bond.

**END OF LABOR, MATERIAL AND TAXES PAYMENT BOND FORM**

**CITY OF KIRKLAND  
CONTRACTOR'S DECLARATION OF OPTION FOR MANAGEMENT  
OF STATUTORY RETAINED PERCENTAGE**

2019 NEIGHBORHOOD SAFETY PROJECTS  
JOB NO. 04-20-PW

Monies reserved under provisions of Chapter 60.28 RCW, at the option of the Contractor, shall be:

Select  
One

- (1) Retained in a fund by the City. No interest will be earned on the retained percentage amount under this election.
  
- (2) Retainage Bond
  
- (3) Placed in escrow with a bank or trust company by the City. When the monies reserved are to be placed in escrow, the City will issue a check representing the sum of the monies reserved payable to the bank or trust company and the Contractor jointly. Such check shall be converted into bonds and securities chosen by the Contractor and approved by the City and the bonds and securities held in escrow. (For the convenience of those Contractors choosing option (3) a City approved Form of Escrow Agreement is included on the next page and should be completed and submitted with the executed contract.)

*The Contractor in choosing option (3) agrees to assume full responsibility to pay all costs which may accrue from escrow services, brokerage charges or both, and further agrees to assume all risks in connection with the investment of the retained percentages in securities.*

- (4) Deposited by the City in an interest-bearing account at the FDIC insured bank currently providing contracted banking services to the City of Kirkland. Interest on such account shall be paid to the contractor. Any fees incurred shall be the responsibility of the contractor.

CONTRACTOR:

Signature: \_\_\_\_\_

Print or Type Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**RETAINAGE BOND**  
**RETURN THIS FORM IF RETAINAGE BOND OPTION IS SELECTED**

Contract Title	_____
Contract Number	_____
Contractor Name	_____

The Undersigned, \_\_\_\_\_, existing under and by virtue of the laws of the State of Washington and authorized to do business in the State of Washington as Principal, and \_\_\_\_\_ organized and existing under the laws of the State of \_\_\_\_\_ and authorized to transact business in the State of Washington as Surety, are jointly and severally held and bound unto \_\_\_\_\_, hereinafter called Obligee, and are similarly held and bound unto the beneficiaries of the trust fund created by RCW 60.28, in the penal sum of

(\$ \_\_\_\_\_), Which is 5% of the principal's price on Contract ID \_\_\_\_\_.

WHEREAS, on the \_\_\_\_\_ day of \_\_\_\_\_, 2\_\_\_\_, the said principal herein executed a contract with the Obligee, for the Contract specified above, Contract ID Number \_\_\_\_\_.

WHEREAS, said contract and RCW 60.28 require the Obligee to withhold from the Principal the sum of \_\_\_\_% from monies earned on estimates during the progress of the construction, herein after referred to as earned retained funds.

NOW WHEREAS, Principal has requested that the Obligee not retain any earned retained funds as allowed under RCW 60.28.

NOW THEREFORE, the condition of the obligation is such that the Principal and Surety are held and bound unto the beneficiaries of the trust fund created by RCW 60.28 in the penal sum of \_\_\_\_\_ percent (\_\_\_\_%) of the final contract cost which shall include any increases due to change orders, increases in quantities of work or the addition of any new item of work. If the Principal shall use the earned retained funds, which will not be retained, for the trust fund purposes of RCW 60.28, then this obligation shall be null and void; otherwise, it shall remain in full force and effect until release is authorized in writing by the Obligee. This bond and any proceeds therefrom shall be made subject to all claims and liens and in the same manner and priority as set forth for retained percentages in RCW 60.28.

PROVIDED HOWEVER, that:

1. The liability of the surety under this bond shall not exceed 5% or 50% of the total amount earned by the Principal if no monies are retained by the Obligee on estimates during the progress of construction.
2. Any suit under this bond must be instituted within the time provided by applicable law.

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 2\_\_\_\_.

**SURETY**

**PRINICIPAL**

By: \_\_\_\_\_  
Name/Title

By: \_\_\_\_\_  
Name/Title

OF: \_\_\_\_\_

OF: \_\_\_\_\_

Surety Name and Local Office of Agent: \_\_\_\_\_

Surety Address and Phone of Local Office and Agent: \_\_\_\_\_

\_\_\_\_\_

**CITY OF KIRKLAND  
RETAINED PERCENTAGE ESCROW AGREEMENT**

2019 NEIGHBORHOOD SAFETY PROJECTS  
JOB NO. 04-20-PW

Escrow No. \_\_\_\_\_

City of Kirkland  
123 Fifth Avenue  
Kirkland, Washington 98033

Contractor: \_\_\_\_\_

Address: \_\_\_\_\_

Project Description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TO: Escrow Bank or Trust Company:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Attention: \_\_\_\_\_

The undersigned, \_\_\_\_\_, herein referred to as the Contractor, has directed the City of Kirkland to deliver to you its warrants, which shall be payable to you and the Contractor jointly. Such warrants are to be held and disposed of by you in accordance with the following instructions and upon the terms and conditions hereinafter set forth.

INSTRUCTIONS

1. Warrants or checks made payable to you and the Contractor jointly upon delivery to you shall be endorsed by you and forwarded for collection. The moneys will then be used by you to purchase, as directed by the Contractor, bonds or other securities chosen by the Contractor and approved by the City of Kirkland. Attached is a list of such bonds, or other securities approved by the City of Kirkland. Other bonds or securities, except stocks, may be selected by the Contractor, subject to the express written approval of the City of Kirkland. Purchase of such bonds or other securities shall be in a form which shall allow you alone to reconvert such bonds or other securities into money if you are required to do so at the direction of the City of Kirkland and Contractor.
2. When and as interest on the securities held by you pursuant to this agreement accrues and is paid, you shall collect such interest and forward it to the Contractor at its address designated below unless otherwise directed by the Contractor.
3. You are not authorized to deliver to the Contractor all or any part of the securities held by you pursuant to this agreement (or any moneys derived from the sale of such securities, or the

negotiation of the City of Kirkland's warrants) except in accordance with written instructions from the City of Kirkland. Compliance with such instructions shall relieve you of any further liability related thereto. The estimated completion date on the contract underlying this Escrow Agreement is \_\_\_\_\_.

4. The Contractor agrees to pay you as compensation for your services hereunder as follows:

Payment of all fees shall be the sole responsibility of the Contractor and shall not be deducted from any property placed with you pursuant to this agreement until and unless the City of Kirkland directs the release to the Contractor of the securities and moneys held hereunder whereupon you shall be granted a first lien upon such property released and shall be entitled to reimburse yourself from such property for the entire amount of your fees as provided for hereinabove. In the event that you are made a party to any litigation with respect to the property held by you hereunder, or in the event that the conditions of this escrow are not promptly fulfilled or that you are required to render any service not provided for in these instructions, or that there is any assignment of the interests of this escrow or any modification hereof, you shall be entitled to reasonable compensation for such extraordinary services from the Contractor and reimbursement from the Contractor for all costs and expenses, including attorney's fees occasioned by such default, delay, controversy, or litigation.

5. This agreement shall not be binding until executed by the Contractor and the City of Kirkland and accepted by you.
6. This instrument contains the entire agreement between you, the Contractor and the City of Kirkland, with respect to this escrow and you are not a part nor bound by any instrument or agreement other than this; you shall not be required to take notice of any default or any other matter nor be bound by nor required to give notice or demand, nor required to take any action whatever, except as herein expressly provided; you shall not be liable for any loss or damage not caused by your own negligence or willful misconduct.
7. The foregoing provisions shall be binding upon the assigns, successors, personal representatives, and heirs of the parties hereto.
8. The Contractor's Federal Income Tax Identification number is \_\_\_\_\_.

\*\* Please note: Written release will be issued by the Director of Finance & Administration. For further information, contact the Purchasing Agent at (425) 587-3123.

The undersigned have read and hereby approve the instructions as given above governing the administration of this escrow and do hereby execute this agreement on this \_\_\_\_ day of \_\_\_\_\_, 2\_\_\_\_.

CONTRACTOR:

CITY OF KIRKLAND:

By: \_\_\_\_\_  
Signature

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Print or Type Name

\_\_\_\_\_  
Print or Type Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

Address: \_\_\_\_\_  
\_\_\_\_\_

123 Fifth Avenue  
Kirkland, Washington 98033

The above escrow instructions received and accepted this \_\_\_\_ day of \_\_\_\_\_, 2\_\_\_\_.

ESCROW BANK OR TRUST CO:

\_\_\_\_\_

By: \_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Print or Type Name

\_\_\_\_\_  
Title

Securities Authorized by City of Kirkland (select one):

1. Bills, certificates, notes or bonds of the United States;
2. Other obligations of the United States or its agencies;
3. Obligations of any corporation wholly-owned by the government of the United States;
4. Indebtedness of the Federal National Mortgage Association; and
5. Time deposits in commercial banks.

**RETURN THIS SIGNED AGREEMENT TO:**

City of Kirkland  
Attn: Purchasing Agent  
123 Fifth Avenue  
Kirkland, Washington 98033

# CITY OF KIRKLAND RETAINAGE RELEASE REQUIREMENTS

## DOCUMENTS REQUIRED TO BE ON FILE PRIOR TO RELEASE OF RETAINAGE

1. Intent to Pay Prevailing Wage (Contractor must generation including for subcontractors)

Department of Labor/Industries  
Employment Standards Division  
General Administration Building  
Olympia, Washington 98504  
(360) 956-5335

2. Notice of Completion of Public Works Contract (City generates)

Department of Revenue  
Excise Tax Division  
Olympia, Washington 98504

3. Affidavit of Wages Paid (Contractor must generate including for subcontractors)

Department of Labor/Industries

4. Certificate of Release - State Excise Tax by Public Works Contractor (Letter from State to City)

Department of Revenue  
Department of Labor and Industries  
Employment Security Department

Receipt for Payment in full or Release of Lien signed by Lien Claimant and filed with City  
(Responsibility of Contractor to obtain)

Claims against retainage or Payment Bond filed with City by any  
such subcontractor, workman, or material supplier.

Current insurance certificate through retainage release (Contractor generates)

Produce final invoice for retainage if bond is not selected (Contractor generates)

# **AMENDMENTS TO THE STANDARD SPECIFICATIONS**

**NO AMENDMENTS AVAILABLE  
AT TIME OF PUBLISHING**



**City of Kirkland**

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# **SPECIAL PROVISIONS**

*Supplement to*

**2020**

**WSDOT Standard  
Specifications**



**City of Kirkland**

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2019 NEIGHBORHOOD SAFETY PROJECTS  
 Job No. 04-20-PW  
 City of Kirkland  
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# City of Kirkland Special Provisions

## INTRODUCTION

The work on this project shall be accomplished in accordance with the Standard Specifications for Road, Bridge and Municipal Construction, **2020** edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA), Washington State Chapter (hereafter "Standard Specifications"). The Standard Specifications, as modified or supplemented by the Amendments to the Standard Specifications and these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.

These Special Provisions supersede any conflicting provisions of the Standard Specifications, and the foregoing Amendments to the Standard Specifications.

The accompanying Plans and these Specifications and any Addenda thereto, show and describe the location and type of work to be performed under the **2019 NEIGHBORHOOD SAFETY PROJECTS**.

These Special Provisions are made up of both General Special Provisions (GSPs) from various sources, which may have project-specific fill-ins; and project-specific Special Provisions. Each Provision supplements, modifies, or replaces the comparable Standard Specification, or is a new Provision. The deletion, amendment, alteration, or addition to any subsection or portion of the Standard Specifications is meant to pertain only to that particular portion of the section, and in no way should it be interpreted that the balance of the section does not apply.

The titles of headings of the Sections and subsections herein are intended for convenience or reference and shall not be considered as having any bearing on their interpretation.

Several types of Special Provisions are included in this contract and are differentiated as follows:

**General Special Provisions (GSPs)** are similar to Standard Specifications in that they typically apply to many projects and are used by agencies throughout the state. Denoted as: **(date)**

**Local Agency Approved GSPs** are modifications to the standard specifications prepared by the APWA Division 1 subcommittee, which is comprised of representatives of local agencies throughout the state. APWA GSPs replace what was formerly referred to as "Division 1-99 APWA Supplement" in previous editions of the Standard Specifications for Road, Bridge and Municipal Construction. Denoted as: **(date APWA GSP)**

**City of Kirkland GSPs** are commonly applicable to City of Kirkland projects. Denoted as: **(date COK GSP)**

**Project Specific Special Provisions** normally appear only in the contract for which they were developed. Denoted as: **(\*\*\*\*\*)**

Also incorporated into the Contract Documents by reference are:

- Manual on Uniform Traffic Control Devices for Streets and Highways, currently adopted edition, with Washington State modifications, if any
- Standard Plans for Road, Bridge and Municipal Construction, WSDOT/APWA, current edition
- City of Kirkland Public Works Department Pre-Approved Plans and Policies.

Contractor shall obtain copies of these publications, at Contractor's own expense.

## DIVISION 1 - GENERAL REQUIREMENTS

### DESCRIPTION OF WORK

This contract provides for the improvement of the **2019 NEIGHBORHOOD SAFETY PROJECTS** and other work, all in accordance with the attached Contract Plans, these Contract Provisions, and the Standard Specifications.

### 1-01 DEFINITIONS AND TERMS

*(January 4, 2016 APWA GSP)*

#### 1-01.3 Definitions

Delete the heading **Completion Dates** and the three paragraphs that follow it, and replace them with the following:

#### **Dates**

##### ***Bid Opening Date***

The date on which the Contracting Agency publicly opens and reads the Bids.

##### ***Award Date***

The date of the formal decision of the Contracting Agency to accept the lowest responsible and responsive Bidder for the Work.

##### ***Contract Execution Date***

The date the Contracting Agency officially binds the Agency to the Contract.

##### ***Notice to Proceed Date***

The date stated in the Notice to Proceed on which the Contract time begins.

##### ***Substantial Completion Date***

The day the Engineer determines the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, any remaining traffic disruptions will be rare and brief, and only minor incidental work, replacement of temporary substitute facilities, plant establishment periods, or correction or repair remains for the Physical Completion of the total Contract.

##### ***Physical Completion Date***

The day all of the Work is physically completed on the project. All documentation required by the Contract and required by law does not necessarily need to be furnished by the Contractor by this date.

##### ***Completion Date***

The day all the Work specified in the Contract is completed and all the obligations of the Contractor under the contract are fulfilled by the Contractor. All documentation required by the Contract and required by law must be furnished by the Contractor before establishment of this date.

##### ***Final Acceptance Date***

The date on which the Contracting Agency accepts the Work as complete.

Supplement this Section with the following:

All references in the Standard Specifications, Amendments, or WSDOT General Special Provisions, to the terms "Department of Transportation", "Washington State Transportation Commission", "Commission", "Secretary of Transportation", "Secretary", "Headquarters", and "State Treasurer" shall be revised to read "Contracting Agency".

All references to the terms “State” or “state” shall be revised to read “Contracting Agency” unless the reference is to an administrative agency of the State of Washington, a State statute or regulation, or the context reasonably indicates otherwise.

All references to “State Materials Laboratory” shall be revised to read “Contracting Agency designated location”.

All references to “final contract voucher certification” shall be interpreted to mean the Contracting Agency form(s) by which final payment is authorized, and final completion and acceptance granted.

**Additive**

A supplemental unit of work or group of bid items, identified separately in the Bid Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition to the base bid.

**Alternate**

One of two or more units of work or groups of bid items, identified separately in the Bid Proposal, from which the Contracting Agency may make a choice between different methods or material of construction for performing the same work.

**Business Day**

A business day is any day from Monday through Friday except holidays as listed in Section 1-08.5.

**Contract Bond**

The definition in the Standard Specifications for “Contract Bond” applies to whatever bond form(s) are required by the Contract Documents, which may be a combination of a Payment Bond and a Performance Bond.

**Contract Documents**

See definition for “Contract”.

**Contract Time**

The period of time established by the terms and conditions of the Contract within which the Work must be physically completed.

**Notice of Award**

The written notice from the Contracting Agency to the successful Bidder signifying the Contracting Agency’s acceptance of the Bid Proposal.

**Notice to Proceed**

The written notice from the Contracting Agency or Engineer to the Contractor authorizing and directing the Contractor to proceed with the Work and establishing the date on which the Contract time begins.

**Traffic**

Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and equestrian traffic.

## **1-02 BID PROCEDURES AND CONDITIONS**

*(January 24, 2011 APWA GSP)*

### **1-02.1 Prequalification of Bidders**

Delete this Section and replace it with the following:

#### **1-02.1 Qualifications of Bidder**

Before award of a public works contract, a bidder must meet at least the minimum qualifications of RCW 39.04.350(1) to be considered a responsible bidder and qualified to be awarded a public works project.

*(July 31, 2017 APWA GSP; requires pre-approval on FHWA funded projects, through WSDOT/Local Programs)*

#### **1-02.1(1) Supplemental Qualifications Criteria**

Add the following new section:

In addition, the Contracting Agency has established Contracting Agency-specific and/or project-specific supplemental criteria, in accordance with RCW 39.04.350(3), for determining Bidder responsibility, including the basis for evaluation and the deadline for appealing a determination that a Bidder is not responsible. These criteria are contained in Section 1-02.14 Option C of these Special Provisions.

*(1/1/2016 COK GSP)*

Bidders shall complete and sign the Statement of Bidder's Qualification contained in the Proposal. Said form must be submitted with the bid proposal.

After bids are opened, Contracting Agency may request that a bidder or all bidders provide supplemental information concerning responsibility in accordance with RCW 39.04.350(2). Such supplemental information shall be provided to Contracting Agency in writing within two (2) business days of the request. Whether bidder supplies this supplemental information within the time and manner specified or not, in addition to consideration of this additional information, Contracting Agency may also base its determination of responsibility on any available information related to the supplemental criteria.

If Contracting Agency determines that a bidder is not responsible, Contracting Agency will provide, in writing, the reasons for such determination at which point the contractor will be deemed disqualified in accordance with WSDOT Standard Specification 1-02.14(10) and the proposal rejected. The bidder may appeal the determination within two (2) business days after receipt of the determination by presenting additional information to Contracting Agency. Contracting Agency will consider the additional information before issuing its final decision. If Contracting Agency's final decision affirms that the bidder is not responsible, Contracting Agency will not execute a contract with any other bidder until two (2) business days after the bidder determined to be not responsible has received Contracting Agency's final determination. The failure or omission of a bidder to receive or examine any form, instrument, addendum or other document shall in no way relieve any bidder from obligations with respect to the bid or to the contract.

Any bidder may, within five (5) business days before the bid submittal deadline, request that Contracting Agency modify the supplemental criteria. Contracting Agency will evaluate the information submitted by the bidder and respond before the submittal deadline. If the evaluation results in a change of the criteria, the Contracting Agency will issue an Addendum to the bidding documents identifying the new criteria.

Supplemental Criteria. Contracting Agency acknowledges that Change Orders (changes, extra work, requests for equitable adjustment and claims (defined as including demands for money or time

in excess of the contract amount or contract time)) are ubiquitous on public works construction projects. The expeditious resolution of Change Orders is critical to the on budget and on time successful completion of a public works project. Thus, the City has established the following relevant supplemental bidder responsibility criteria applicable for the project:

1. Criterion. The bidder must demonstrate a record of successful and timely resolution of Change Orders including compliance with public contract Change Order resolution procedures (e.g. timely notice of event giving rise to the Change Order, timely submission of a statement of the cost and/or impact of the Change Order unless the bidder is able to show extenuating circumstances that explain bidder's failure to timely provide such information to the satisfaction of Contracting Agency.
2. Documentation. As evidence that the bidder meets the supplemental responsibility criteria, after bids are opened and within two (2) business days of the public notice of Contracting Agency's tabulation of bids, the lowest responsive bidder must submit the following documentation of public works projects completed within the previous three (3) years and include for each project the following:
  - a. The Owner and contact information for the Owner;
  - b. A listing of Change Orders and a signed statement from the bidder that the project timelines concerning resolution of Change Orders was complied with, and if not, provide a written explanation of what the bidder believes to be the extenuating circumstances excusing compliance with the Contract Change Order notice and claim provisions.

Contracting Agency may contact owners listed by the bidders to validate the information provided by a bidder.

***(June 27, 2011 APWA GSP)***

**1-02.2 Plans and Specifications**

Delete this section and replace it with the following:

Information as to where Bid Documents can be obtained or reviewed can be found in the Invitation for Bids for the work.

After award of the contract, plans and specifications will be issued to the Contractor at no cost as detailed below:

<b>To Prime Contractor</b>	<b>No. of Sets</b>	<b>Basis of Distribution</b>
Reduced plans (11" x 17")	3	Furnished automatically upon award.
Contract Provisions	3	Furnished automatically upon award.
Large plans (e.g., 22" x 34")	2	Furnished only upon request.

Additional plans and Contract Provisions may be obtained by the Contractor from the source stated in the Call for Bids, at the Contractor's own expense.

***(March 8, 2013 APWA GSP)***

**1-02.4(2) Subsurface Information**

The second sentence in the first paragraph is revised to read:

The Summary of Geotechnical Conditions and the boring logs, if and when included as an appendix to the Special Provisions, shall be considered as part of the Contract.

***(July 31, 2017 APWA GSP)***

#### **1-02.5 Proposal Forms**

Delete this section and replace it with the following:

The Proposal Form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's UDBE/DBE/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the Proposal Form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the Proposal Form unless otherwise specified.

***(June 20, 2017 APWA GSP)***

#### **1-02.6 Preparation of Proposal**

Supplement the second paragraph with the following:

4. If a minimum bid amount has been established for any item, the unit or lump sum price must equal or exceed the minimum amount stated.
5. Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid.

Delete the fourth paragraph and replace it with the following:

The Bidder shall submit with the Bid a completed Underutilized Disadvantaged Business Enterprise (UDBE) Utilization Certification, when required by the Special Provisions. For each and every UDBE firm listed on the Bidder's completed Underutilized Disadvantaged Business Enterprise Utilization Certification, the Bidder shall submit written confirmation from that UDBE firm that the UDBE is in agreement with the UDBE participation commitment that the Bidder has made in the Bidder's completed Underutilized Disadvantaged Business Enterprise Utilization Certification. WSDOT Form 422-031U (Underutilized Disadvantaged Business Enterprise Written Confirmation Document) is to be used for this purpose. Bidder must submit good faith effort documentation with the Underutilized Disadvantaged Business Enterprise Utilization Certification only in the event the bidder's efforts to solicit sufficient UDBE participation have been unsuccessful. Directions for delivery of the Underutilized Disadvantaged Business Enterprise Written Confirmation Documents and Underutilized Disadvantaged Business Enterprise Good Faith Effort documentation are included in Sections 1-02.9

Delete the last paragraph, and replace it with the following:

The Bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

A bid by a corporation shall be executed in the corporate name, by the president or a vice president (or other corporate officer accompanied by evidence of authority to sign).

A bid by a partnership shall be executed in the partnership name, and signed by a partner. A copy of the partnership agreement shall be submitted with the Bid Form if any UDBE requirements are to be satisfied through such an agreement.

A bid by a joint venture shall be executed in the joint venture name and signed by a member of the joint venture. A copy of the joint venture agreement shall be submitted with the Bid Form if any UDBE requirements are to be satisfied through such an agreement.

***(March 8, 2013 APWA GSP)***

**1-02.7 Bid Deposit**

Supplement this section with the following:

Bid bonds shall contain the following:

1. Contracting Agency-assigned number for the project;
2. Name of the project;
3. The Contracting Agency named as obligee;
4. The amount of the bid bond stated either as a dollar figure or as a percentage which represents five percent of the maximum bid amount that could be awarded;
5. Signature of the bidder's officer empowered to sign official statements. The signature of the person authorized to submit the bid should agree with the signature on the bond, and the title of the person must accompany the said signature;
6. The signature of the surety's officer empowered to sign the bond and the power of attorney.

If so stated in the Contract Provisions, bidder must use the bond form included in the Contract Provisions.

If so stated in the Contract Provisions, cash will not be accepted for a bid deposit.

***(1/1/2016 COK GSP)***

**1-02.8 Noncollusion Declaration and Lobbying Certification**

The following new paragraph is inserted at the end of Section 1-02.8:

**Conflict of Interest**

The bidder affirms that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of its services hereunder. The Contractor further covenants that in the performance of this contract, no person having any conflicting interest shall be employed. Any interest on the part of the Contractor or its employees must be disclosed forthwith to the City of Kirkland. If this contract is within the scope of a Federal Housing and Community Development Block Grant program, the Contractor further covenants that no person who presently exercises any functions or responsibilities in connection with the block grant program has any personal financial interest, direct or indirect, in this contract.

***(July 31, 2017 APWA GSP, Option A)***

**1-02.9 Delivery of Proposal**

Delete this section and replace it with the following:

Each Proposal shall be submitted in a sealed envelope, with the Project Name and Project Number as stated in the Invitation for Bids clearly marked on the outside of the envelope, or as otherwise required in the Bid Documents, to ensure proper handling and delivery.

If the project has FHWA funding and requires UDBE Written Confirmation Document(s) or Good Faith Effort (GFE) Documentation, then to be considered responsive, the Bidder shall submit Written Confirmation Documentation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification, form 272-056U, as required by Section 1-02.6. The UDBE Written Confirmation Document(s) and/or GFE (if any) shall be received either with the Bid Proposal or as a Supplement to the Bid. The document(s) shall be received no later than 24 hours (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

The Bidder shall submit to the Contracting Agency a signed "Certification of Compliance with Wage Payment Statutes" document where the Bidder under penalty of perjury verifies that the Bidder is in compliance with responsible bidder criteria in RCW 39.04.350 subsection (1) (g), as required per Section 1-02.14. The "Certification of Compliance with Wage Payment Statutes" document shall be received either with the Bid Proposal or no later than 24 hours (not including Saturdays, Sundays and Holidays) after the time for delivery of the Bid Proposal.

If submitted after the Bid Proposal is due, the document(s) must be submitted in a sealed envelope labeled the same as for the Proposal, with "Supplemental Information" added. All other information required to be submitted with the Bid Proposal must be submitted with the Bid Proposal itself, at the time stated in the Invitation for Bids.

The Contracting Agency will not open or consider any Bid Proposal that is received after the time specified in the Invitation for Bids for receipt of Bid Proposals, or received in a location other than that specified in the Invitation for Bids. The Contracting Agency will not open or consider any "Supplemental Information" (UDBE confirmations, GFE documentation, or Certification of Compliance with Wage Payment Statutes) that is received after the time specified above, or received in a location other than that specified in the Invitation for Bids.

***(July 23, 2015 APWA GSP)***

#### **1-02.10 Withdrawing, Revising, or Supplementing Proposal**

Delete this section, and replace it with the following:

After submitting a physical Bid Proposal to the Contracting Agency, the Bidder may withdraw, revise, or supplement it if:

1. The Bidder submits a written request signed by an authorized person and physically delivers it to the place designated for receipt of Bid Proposals, and
2. The Contracting Agency receives the request before the time set for receipt of Bid Proposals, and
3. The revised or supplemented Bid Proposal (if any) is received by the Contracting Agency before the time set for receipt of Bid Proposals.

If the Bidder's request to withdraw, revise, or supplement its Bid Proposal is received before the time set for receipt of Bid Proposals, the Contracting Agency will return the unopened Proposal package to the Bidder. The Bidder must then submit the revised or supplemented package in its entirety. If the Bidder does not submit a revised or supplemented package, then its bid shall be considered withdrawn.

Late revised or supplemented Bid Proposals or late withdrawal requests will be date recorded by the Contracting Agency and returned unopened. Mailed, emailed, or faxed requests to withdraw, revise, or supplement a Bid Proposal are not acceptable.

### **1-02.12 Public Opening of Proposals**

This section is supplemented with the following new paragraph:

If an emergency or unanticipated event interrupts normal work processes of the Contracting Agency so that Proposals cannot be opened at the time indicated in the call for Bids the time specified for opening of Proposals will be deemed to be extended to the same time of day on the first work day on which the normal work processes of the Contracting Agency resume.

### **1-02.13 Irregular Proposals**

Delete this section and replace it with the following:

1. A Proposal will be considered irregular and will be rejected if:
  - a. The Bidder is not prequalified when so required;
  - b. The authorized Proposal form furnished by the Contracting Agency is not used or is altered;
  - c. The completed Proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
  - d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
  - e. A price per unit cannot be determined from the Bid Proposal;
  - f. The Proposal form is not properly executed;
  - g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
  - h. The Bidder fails to submit or properly complete an Underutilized Disadvantaged Business Enterprise Certification, if applicable, as required in Section 1-02.6;
  - i. The Bidder fails to submit written confirmation from each UDBE firm listed on the Bidder's completed UDBE Utilization Certification that they are in agreement with the bidder's UDBE participation commitment, if applicable, as required in Section 1-02.6, or if the written confirmation that is submitted fails to meet the requirements of the Special Provisions;
  - j. The Bidder fails to submit UDBE Good Faith Effort documentation, if applicable, as required in Section 1-02.6, or if the documentation that is submitted fails to demonstrate that a Good Faith Effort to meet the Condition of Award was made;
  - k. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
  - l. More than one Proposal is submitted for the same project from a Bidder under the same or different names.
  
2. A Proposal may be considered irregular and may be rejected if:
  - a. The Proposal does not include a unit price for every Bid item;
  - b. Any of the unit prices are excessively unbalanced (either above or below the amount of a reasonable Bid) to the potential detriment of the Contracting Agency;
  - c. Receipt of Addenda is not acknowledged;
  - d. A member of a joint venture or partnership and the joint venture or partnership submit Proposals for the same project (in such an instance, both Bids may be rejected); or
  - e. If Proposal form entries are not made in ink.

*(July 31, 2017 APWA GSP, Option A)*

### **1-02.14 Disqualification of Bidders**

Delete this section and replace it with the following:

A Bidder will be deemed not responsible if the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended.

The Contracting Agency will verify that the Bidder meets the mandatory bidder responsibility criteria in RCW 39.04.350(1). To assess bidder responsibility, the Contracting Agency reserves the right to request documentation as needed from the Bidder and third parties concerning the Bidder's compliance with the mandatory bidder responsibility criteria.

The Bidder shall submit to the Contracting Agency a signed "Certification of Compliance with Wage Payment Statutes", document where the Bidder under penalty of perjury verifies that the Bidder is in compliance with responsible bidder criteria in RCW 39.04.350 subsection (1)(g). A form appropriate for "Certification of Compliance with Wage Payment Statutes" will be provided by the Contracting Agency in the Bid Documents. The form provided in the Bid Documents shall be submitted with the Bid as stated in Section 1-02.9.

If the Contracting Agency determines the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1) and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within two (2) business days of the Contracting Agency's determination by presenting its appeal and any additional information to the Contracting Agency. The Contracting Agency will consider the appeal and any additional information before issuing its final determination. If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two business days after the Bidder determined to be not responsible has received the Contracting Agency's final determination.

***(August 14, 2013 APWA GSP)***

**1-02.15 Pre Award Information**

Revise this section to read:

Before awarding any contract, the Contracting Agency may require one or more of these items or actions of the apparent lowest responsible bidder:

1. A complete statement of the origin, composition, and manufacture of any or all materials to be used,
2. Samples of these materials for quality and fitness tests,
3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time required for the various phases of the work,
4. A breakdown of costs assigned to any bid item,
5. Attendance at a conference with the Engineer or representatives of the Engineer,
6. Obtain, and furnish a copy of, a business license to do business in the city or county where the work is located.
7. Any other information or action taken that is deemed necessary to ensure that the bidder is the lowest responsible bidder.

**1-03 AWARD AND EXECUTION OF CONTRACT**

***(January 23, 2006 APWA GSP)***

**1-03.1 Consideration of Bids**

Revise the first paragraph to read:

After opening and reading proposals, the Contracting Agency will check them for correctness of extensions of the prices per unit and the total price. If a discrepancy exists between the price per unit and the extended amount of any bid item, the price per unit will control. If a minimum bid amount has been established for any item and the bidder's unit or lump sum price is less than the minimum specified amount, the Contracting Agency will unilaterally revise the unit or lump sum price, to the minimum specified amount and recalculate the extension. The total of extensions, corrected where necessary, including sales taxes where applicable and such additives and/or alternates as selected by the Contracting Agency, will be used by the Contracting Agency for award purposes and to fix the Awarded Contract Price amount and the amount of the contract bond.

**(October 1, 2005 APWA GSP)**

### **1-03.3 Execution of Contract**

Revise this section to read:

Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for signature by the successful bidder on the first business day following award. The number of copies to be executed by the Contractor will be determined by the Contracting Agency.

Within ten (10) calendar days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

Until the Contracting Agency executes a contract, no proposal shall bind the Contracting Agency nor shall any work begin within the project limits or within Contracting Agency-furnished sites. The Contractor shall bear all risks for any work begun outside such areas and for any materials ordered before the contract is executed by the Contracting Agency.

If the bidder experiences circumstances beyond their control that prevents return of the contract documents within 10 calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of 10 additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

**(1/1/2016 COK GSP)**

### **1-03.4 Contract Bond**

Revise the first paragraph to read:

The successful bidder shall provide executed payment and performance bond(s) for the full contract amount. Separate payment and performance bonds are required and each shall be for the full contract amount. The bond(s) shall:

1. Be on Contracting Agency-furnished form(s);
2. Be signed by an approved surety (or sureties) that:
  - a. Is registered with the Washington State Insurance Commissioner, and
  - b. Appears on the current Authorized Insurance List in the State of Washington published by the Office of the Insurance Commissioner, and
  - c. Have an A.M. best rating of A:VII or better.
3. Guarantee that the Contractor will perform and comply with all obligations, duties, and conditions under the Contract, including but not limited to the duty and obligation to indemnify, defend, and protect the Contracting Agency against all losses and claims related directly or indirectly from any failure:

- a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform and comply with all contract obligations, conditions, and duties, or
- b. Of the Contractor (or the subcontractors or lower tier subcontractors of the Contractor) to pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or any other person who provides supplies or provisions for carrying out the work;
4. Be conditioned upon the payment of taxes, increases, and penalties incurred on the project under titles 50, 51, and 82 RCW; and
5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond; and
6. Be signed by an officer of the Contractor empowered to sign official statements (sole proprietor or partner). If the Contractor is a corporation, the bond(s) must be signed by the president or vice president, unless accompanied by written proof of the authority of the individual signing the bond(s) to bind the corporation (i.e., corporate resolution, power of attorney, or a letter to such effect signed by the president or vice president).

***(1/1/2016 COK GSP)***

In accordance with RCW 39.08.010, on contracts of twenty-five thousand dollars (\$25,000) or less, at the option of the Contractor the Owner may, in lieu of the bond, retain fifty percent (50%) of the contract amount for a period of thirty (30) days after date of final acceptance, or until receipt of all necessary releases from the Department of Revenue and the Department of Labor and Industries and settlement of any liens filed under Chapter 60.28 RCW, whichever is later.

***(October 10, 2008 APWA GSP)***

***1-03.4(1) Retainage in Lieu of Contract Bond***

For contracts of \$35,000 or less, the Contractor may, at the Contractor's option, authorize the Contracting Agency to retain ten percent (10%) of the contract amount in lieu of furnishing a performance and/or payment bond. If the Contractor elects this option, the retainage shall be held for a period of thirty (30) days after the date of final acceptance, or until receipt of all necessary releases from the Departments of Revenue and of Labor and Industries and settlement of any liens filed under RCW 60.28, whichever is later. The Contractor must advise the Contracting Agency in writing of the Contractor's election to authorize retainage in lieu of a bond, at the time of execution of the Contract.

In choosing this option, the Contractor agrees that if the Contractor, its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the Contract, and shall faithfully perform all the provisions of such contract and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of any and all duly authorized modifications of the Contract that may hereafter be made, at the time and in the manner therein specified, and shall pay all laborers, mechanics, subcontractors, and material suppliers, and all persons who shall supply such person or persons, or subcontractors, with provisions and supplies for the carrying on of such work, on his or her part, and shall indemnify and save harmless the Contracting Agency, its officers and agents from any claim for such payment, then the funds retained in lieu of a performance bond shall be released at the time provided above; otherwise, the funds shall be retained until the Contractor fulfills the said obligations.

***(July 23, 2015 APWA GSP)***

**1-03.7 Judicial Review**

Revise this section to read:

Any decision made by the Contracting Agency regarding the Award and execution of the Contract or Bid rejection shall be conclusive subject to the scope of judicial review permitted under Washington Law. Such review, if any, shall be timely filed in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.05 shall control venue and jurisdiction.

## **1-04 SCOPE OF THE WORK**

*(1/1/2016 COK GSP)*

### **1-04.1 Intent of the Contract**

Section 1-04.1 is supplemented with the following:

All materials, tools, labor, and guarantees thereof of required to complete the work shall be furnished and supplied in accordance with the Plans, these Special Provisions, the Standard Specifications, and City of Kirkland Pre-Approved (Standard) Plans and Policies. The Contractor shall include all costs of doing this work within the contract bid item prices.

*(March 13, 2012 APWA GSP)*

### **1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and Addenda**

Revise the second paragraph to read:

Any inconsistency in the parts of the contract shall be resolved by following this order of precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

1. Addenda,
2. Proposal Form,
3. Special Provisions,
4. Contract Plans,
5. Amendments to the Standard Specifications,
6. Standard Specifications,
7. Contracting Agency's Standard Plans, or Details (if any),
8. Contracting Agency's Standard Policies, and
9. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

### **1-04.4(1) Minor Changes (\*\*\*\*\*)**

Replace the third paragraph of Section 1-04.4(1) with the following:

To provide a common basis for all bidders, the City has estimated and included in the Proposal, a contingency allowance dollar amount for all items to be paid by force account. All such dollar amounts are to become a part of the Contractor's total bid. However, the City does not warrant, expressly or by implication that the actual amount of work will correspond with those estimates. It shall, therefore, not be the basis of a Lost Profit Claim if this contingency item is not expended. Payment will be made on the basis of work actually authorized by the Engineer and in accordance with Section 1-09.6 of the Standard Specifications.

For this contract, the bid item "**Minor Changes**" shall be used to pay for third party damage, and other items not covered

**(1/1/2016 COK GSP)**

#### **1-04.11 Final Cleanup**

Section 1-04.11 is deleted in its entirety and replaced with the following:

From time to time or as may be ordered by the Engineer, the Contractor shall cleanup and remove debris, refuse, and discarded materials of any kind resulting from the Work. Failure to do so may result in cleanup done by the Owner and the cost thereof charged to the Contractor and deducted from the Contractor's progress estimate.

The Contractor shall perform final cleanup as provided in this Section. The Engineer will not establish the Physical Completion Date until this is done. All public and private property the Contractor occupied to do the Work, including but not limited to the Street Right of Way, material sites, borrow and waste sites, and construction staging area shall be left neat and presentable. Immediately after completion of the Work, the Contractor shall cleanup and remove all refuse and unused materials of any kind resulting from the Work. Failure to do the final cleanup may result in the final cleanup being done by the Owner and the cost thereof charged to the Contractor and deducted from the Contractor's final progress estimate.

The Contractor shall:

1. Remove all rubbish, surplus materials, discarded materials, falsework, piling, camp buildings, temporary structures, equipment, and debris;
2. Remove from the Project, all unneeded, oversized rock left from grading, surfacing, or paving unless the Contract specifies otherwise or the Engineer approves otherwise;
3. On all concrete and asphalt pavement work, flush the pavement clean and remove the wash water and debris;
4. Sweep and flush structure decks and remove wash water and debris;
5. Clean out from all open culverts and drains, inlets, catch basins, manholes and water main valve chambers, within the limits of the Project Site, all dirt and debris of any kind that is the result of the Contractor's operations;
6. Level and fine grade all excavated material not used for backfill where the Contract requires;
7. Fine grade all slopes;
8. Upon completion of grading and cleanup operations at any privately-owned site for which a written agreement between the Contractor and property owner is required, the Contractor shall obtain and furnish to the Engineer a written release from all damages, duly executed by the property owner, stating that the restoration of the property has been satisfactorily accomplished.;

All costs associated with cleanup shall be incidental to the Work and shall be included in the various Bid items in the Bid, and shall be at no additional cost to the Owner.

#### **1-05 CONTROL OF WORK**

##### **1-05.4 Conformity with and Deviations from Plans and Stakes**

Add the following two new sub-sections:

**(1/1/2016 COK GSP)**

**1-05.4(1) Roadway and Utility Surveys**

The Contractor shall be responsible for setting, maintaining, and resetting all alignment stakes, slope stakes, and grades necessary for the construction of the improvements under this contract. Except for the survey control data furnished by the Owner, calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility.

The Owner may spot-check the Contractor's surveying. These spot-checks will not change the requirements for normal checking by the Contractor.

To facilitate the establishment of lines and elevations, the Owner will provide the Contractor with primary survey control information consisting of descriptions of two primary control points used for the horizontal and vertical control. Primary control points will be described and shown on the right-of-way Plans. The Contractor shall check all control points for horizontal and vertical locations prior to use and report any discrepancy to the Engineer. Errors resulting from using control points which have not been verified, shall be the Contractors responsibility.

At a minimum the Contractor shall provide following survey staking shall be required:

1. Construction centerline or an offset to construction centerline shall be staked at all angle points and 100-foot intervals on tangents.
2. Offset stakes of JUT Centerline at all angle points and at 50-foot intervals on tangents
  - a. Cut/fill shall reference the elevations of the lowest conduit.
  - b. Offset shall reference the location of the center of trench and list the width of the trench section.
3. Offset stakes of all structure control/location points shown on the undergrounding Plans.
  - a. Each vault, handhold, and junction box shall have a sets of off-set points provided each location point shown in the location tables Cut/Fill shall reference elevations of the finish grade of the top lid of the structure.
  - b. Each pole riser and stub up, shall have at least one set of off-set hubs provided with cut/fills to finish ground elevations.
  - c. Finish grade elevations of all structures shall be determined by the Contractor based on the typical sections and details provide on the Contract Drawings.
4. Offset stakes at face or walls.
5. Offset staking of all drainage structures and drainage pipes at 50-foot intervals.
6. Location of all right-of-way and easements adjacent to the work area as shown on the right-of-way Plans.
7. Offset of all permanent concrete sidewalks, curb ramps, and driveways.

Each stake shall have the following information: Hub elevation, offset distance to items being staked, cut/fill to proposed elevations, design elevation of items being staked.

The above information shall also be shown on a written Cut Sheet and provided to the City inspector 48-hours prior to installation of the items being staked.

The Contractor shall establish all secondary survey controls, both horizontal and vertical, as necessary to assure proper placement of all project elements based on the primary control points provided by the Engineer. Survey work shall be within the following tolerances:

Stationing	+ .01 foot
Alignment	+ .01 foot (between successive points)
Superstructure Elevations	+ .01 foot (from plan elevations)

Substructure Elevations	+ .05 foot (from plan elevations)
Sidewalk and Curb Ramp Elevations	+ .01 foot (from plan elevations)

During the progress of the work, the Contractor shall make available to the Engineer all field books including survey information, footing elevations, cross sections and quantities.

The Contractor shall be fully responsible for the close coordination of field locations and measurements with appropriate dimensions of structural members being fabricated.

**(October 1, 2005 APWA GSP)**

**1-05.4(2) Bridge and Structure Surveys**

For all structural work such as bridges and retaining walls, the Contractor shall retain as a part of Contractor's organization an experienced team of surveyors.

The Contractor shall provide all surveys required to complete the structure, except the following primary survey control which will be provided by the Engineer:

1. Centerline or offsets to centerline of the structure.
2. Stations of abutments and pier centerlines.
3. A sufficient number of benchmarks for levels to enable the Contractor to set grades at reasonably short distances.
4. Monuments and control points as shown in the Plans.

The Contractor shall establish all secondary survey controls, both horizontal and vertical, as necessary to assure proper placement of all project elements based on the primary control points provided by the Engineer. Survey work shall be within the following tolerances:

Stationing	+ .01 foot
Alignment	+ .01 foot (between successive points)
Superstructure Elevations	+ .01 foot (from plan elevations)
Substructure Elevations	+ .05 foot (from plan elevations)

During the progress of the work, the Contractor shall make available to the Engineer all field books including survey information, footing elevations, cross sections and quantities.

The Contractor shall be fully responsible for the close coordination of field locations and measurements with appropriate dimensions of structural members being fabricated.

**(1/1/2016 COK GSP)**

**Measurement**

No unit of measurement shall apply to the lump sum price for construction surveying.

**Payment**

Payment will be made in accordance with Section 1-04.1 of these Specifications for the following bid item:

Construction Surveying	LS
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The lump sum Contract price for "Construction Surveying" shall be full pay for all labor, equipment, materials, and supervision utilized to perform the Work specified, including any resurveying, checking, correction of errors, replacement of missing or damaged stakes, and coordination efforts.

***(October 1, 2005 APWA GSP)***

**1-05.7 Removal of Defective and Unauthorized Work**

Supplement this section with the following:

If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Engineer, or fails to perform any part of the work required by the Contract Documents, the Engineer may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary.

If the Contractor fails to comply with a written order to remedy what the Engineer determines to be an emergency situation, the Engineer may have the defective and unauthorized work corrected immediately, have the rejected work removed and replaced, or have work the Contractor refuses to perform completed by using Contracting Agency or other forces. An emergency situation is any situation when, in the opinion of the Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk of loss or damage to the public.

Direct or indirect costs incurred by the Contracting Agency attributable to correcting and remedying defective or unauthorized work, or work the Contractor failed or refused to perform, shall be paid by the Contractor. Payment will be deducted by the Engineer from monies due, or to become due, the Contractor. Such direct and indirect costs shall include in particular, but without limitation, compensation for additional professional services required, and costs for repair and replacement of work of others destroyed or damaged by correction, removal, or replacement of the Contractor's unauthorized work.

No adjustment in contract time or compensation will be allowed because of the delay in the performance of the work attributable to the exercise of the Contracting Agency's rights provided by this Section.

The rights exercised under the provisions of this section shall not diminish the Contracting Agency's right to pursue any other avenue for additional remedy or damages with respect to the Contractor's failure to perform the work as required.

***(1/1/2016 COK GSP)***

**1-05.9 Equipment**

The following new paragraph is inserted between the second and third paragraphs:

Use of equipment with metal tracks will not be permitted on concrete or asphalt surfaces unless otherwise authorized by the Engineer.

***(1/1/2016 COK GSP)***

**1-05.10 Guarantees**

Section 1-05.10 is supplemented as follows:

Guarantees and maintenance bonds shall be in accordance with City of Kirkland, State of Washington, Public Works Performance and Payment Bond forms and requirements. The performance bond shall be in the full amount of contract. The Contractor guarantees all items of material, equipment, and workmanship against mechanical, structural, or other defects for which the Contractor is responsible that may develop or become evident within a period of one year from and

after acceptance of the work by the Owner. This guarantee shall be understood to require prompt remedy of defects upon written notification to the Contractor. If the Owner determines the defect requires immediate repair, the Owner may, without further notice to the Contractor, make the necessary corrections, the cost of which shall be borne by the Contractor. To support the above guarantee, the Contractor's performance bond shall remain in full force and effect for one year following the acceptance of the project by the Owner.

**(October 1, 2005 APWA GSP)**

#### **1-05.11 Final Inspection**

Delete this section and replace it with the following:

#### **1-05.11 Final Inspections and Operational Testing**

##### **1-05.11(1) Substantial Completion Date**

When the Contractor considers the work to be substantially complete, the Contractor shall so notify the Engineer and request the Engineer establish the Substantial Completion Date. The Contractor's request shall list the specific items of work that remain to be completed in order to reach physical completion. The Engineer will schedule an inspection of the work with the Contractor to determine the status of completion. The Engineer may also establish the Substantial Completion Date unilaterally.

If, after this inspection, the Engineer concurs with the Contractor that the work is substantially complete and ready for its intended use, the Engineer, by written notice to the Contractor, will set the Substantial Completion Date. If, after this inspection the Engineer does not consider the work substantially complete and ready for its intended use, the Engineer will, by written notice, so notify the Contractor giving the reasons therefor.

Upon receipt of written notice concurring in or denying substantial completion, whichever is applicable, the Contractor shall pursue vigorously, diligently and without unauthorized interruption, the work necessary to reach Substantial and Physical Completion. The Contractor shall provide the Engineer with a revised schedule indicating when the Contractor expects to reach substantial and physical completion of the work.

The above process shall be repeated until the Engineer establishes the Substantial Completion Date and the Contractor considers the work physically complete and ready for final inspection.

##### **1-05.11(2) Final Inspection and Physical Completion Date**

When the Contractor considers the work physically complete and ready for final inspection, the Contractor by written notice, shall request the Engineer to schedule a final inspection. The Engineer will set a date for final inspection. The Engineer and the Contractor will then make a final inspection and the Engineer will notify the Contractor in writing of all particulars in which the final inspection reveals the work incomplete or unacceptable. The Contractor shall immediately take such corrective measures as are necessary to remedy the listed deficiencies. Corrective work shall be pursued vigorously, diligently, and without interruption until physical completion of the listed deficiencies. This process will continue until the Engineer is satisfied the listed deficiencies have been corrected.

If action to correct the listed deficiencies is not initiated within 7 days after receipt of the written notice listing the deficiencies, the Engineer may, upon written notice to the Contractor, take whatever steps are necessary to correct those deficiencies pursuant to Section 1-05.7.

The Contractor will not be allowed an extension of contract time because of a delay in the performance of the work attributable to the exercise of the Engineer's right hereunder.

Upon correction of all deficiencies, the Engineer will notify the Contractor and the Contracting Agency, in writing, of the date upon which the work was considered physically complete. That date

shall constitute the Physical Completion Date of the contract, but shall not imply acceptance of the work or that all the obligations of the Contractor under the contract have been fulfilled.

**1-05.11(3) Operational Testing**

It is the intent of the Contracting Agency to have at the Physical Completion Date a complete and operable system. Therefore when the work involves the installation of machinery or other mechanical equipment; street lighting, electrical distribution or signal systems; irrigation systems; buildings; or other similar work it may be desirable for the Engineer to have the Contractor operate and test the work for a period of time after final inspection but prior to the physical completion date. Whenever items of work are listed in the Contract Provisions for operational testing they shall be fully tested under operating conditions for the time period specified to ensure their acceptability prior to the Physical Completion Date. During and following the test period, the Contractor shall correct any items of workmanship, materials, or equipment which prove faulty, or that are not in first class operating condition. Equipment, electrical controls, meters, or other devices and equipment to be tested during this period shall be tested under the observation of the Engineer, so that the Engineer may determine their suitability for the purpose for which they were installed. The Physical Completion Date cannot be established until testing and corrections have been completed to the satisfaction of the Engineer.

The costs for power, gas, labor, material, supplies, and everything else needed to successfully complete operational testing, shall be included in the unit contract prices related to the system being tested, unless specifically set forth otherwise in the proposal.

Operational and test periods, when required by the Engineer, shall not affect a manufacturer's guaranties or warranties furnished under the terms of the contract.

**(March 8, 2013 APWA GSP)**

**1-05.12 Final Acceptance**

Add the following new section:

**1-05.12(1) One-Year Guarantee Period**

The Contractor shall return to the project and repair or replace all defects in workmanship and material discovered within one year after Final Acceptance of the Work. The Contractor shall start work to remedy any such defects within 7 calendar days of receiving Contracting Agency's written notice of a defect, and shall complete such work within the time stated in the Contracting Agency's notice. In case of an emergency, where damage may result from delay or where loss of services may result, such corrections may be made by the Contracting Agency's own forces or another contractor, in which case the cost of corrections shall be paid by the Contractor. In the event the Contractor does not accomplish corrections within the time specified, the work will be otherwise accomplished and the cost of same shall be paid by the Contractor.

When corrections of defects are made, the Contractor shall then be responsible for correcting all defects in workmanship and materials in the corrected work for one year after acceptance of the corrections by Contracting Agency.

This guarantee is supplemental to and does not limit or affect the requirements that the Contractor's work comply with the requirements of the Contract or any other legal rights or remedies of the Contracting Agency.

**(August 14, 2013 APWA GSP)**

**1-05.13 Superintendents, Labor and Equipment of Contractor**

Delete the sixth and seventh paragraph of this section.

***(March 25, 2009 APWA GSP)***

**1-05.15 Method of Serving Notices**

Revise the second paragraph to read:

All correspondence from the Contractor shall be directed to the Project Engineer. All correspondence from the Contractor constituting any notification, notice of protest, notice of dispute, or other correspondence constituting notification required to be furnished under the Contract, must be in paper format, hand delivered or sent via mail delivery service to the Project Engineer's office. Electronic copies such as e-mails or electronically delivered copies of correspondence will not constitute such notice and will not comply with the requirements of the Contract.

***(October 1, 2005 APWA GSP)***

**1-05.16 Water and Power**

The Contractor shall make necessary arrangements, and shall bear the costs for power and water necessary for the performance of the work, unless the contract includes power and water as a pay item.

Add the following new section:

***(March 8, 2013 APWA GSP)***

**1-05.18 Record Drawings**

The Contractor shall maintain one set of full size plans for Record Drawings, updated with clear and accurate red-lined field revisions on a daily basis, and within 2 business days after receipt of information that a change in Work has occurred. The Contractor shall not conceal any work until the required information is recorded.

This Record Drawing set shall be used for this purpose alone, shall be kept separate from other Plan sheets, and shall be clearly marked as Record Drawings. These Record Drawings shall be kept on site at the Contractor's field office, and shall be available for review by the Contracting Agency at all times. The Contractor shall bring the Record Drawings to each progress meeting for review.

The preparation and upkeep of the Record Drawings is to be the assigned responsibility of a single, experienced, and qualified individual. The quality of the Record Drawings, in terms of accuracy, clarity, and completeness, is to be adequate to allow the Contracting Agency to modify the computer-aided drafting (CAD) Contract Drawings to produce a complete set of Record Drawings for the Contracting Agency without further investigative effort by the Contracting Agency.

The Record Drawing markups shall document all changes in the Work, both concealed and visible. Items that must be shown on the markups include but are not limited to:

- Actual dimensions, arrangement, and materials used when different than shown in the Plans.
- Changes made by Change Order or Field Order.
- Changes made by the Contractor.
- Accurate locations of storm sewer, sanitary sewer, water mains and other water appurtenances, structures, conduits, light standards, vaults, width of roadways, sidewalks, landscaping areas, building footprints, channelization and pavement markings, etc. Include pipe invert elevations, top of castings (manholes, inlets, etc.).

If the Contract calls for the Contracting Agency to do all surveying and staking, the Contracting Agency will provide the elevations at the tolerances the Contracting Agency requires for the Record Drawings.

When the Contract calls for the Contractor to do the surveying/staking, the applicable tolerance limits include, but are not limited to the following:

	Vertical	Horizontal
As-built sanitary & storm invert and grate elevations	± 0.01 foot	± 0.01 foot
As-built monumentation	± 0.001 foot	± 0.001 foot
As-built waterlines, inverts, valves, hydrants	± 0.10 foot	± 0.10 foot
As-built ponds/swales/water features	± 0.10 foot	± 0.10 foot
As-built buildings (fin. Floor elev.)	± 0.01 foot	± 0.10 foot
As-built gas lines, power, TV, Tel, Com	± 0.10 foot	± 0.10 foot
As-built signs, signals, etc.	N/A	± 0.10 foot

Making Entries on the Record Drawings:

- Use erasable colored pencil (not ink) for all markings on the Record Drawings, conforming to the following color code:
- Additions - Red
- Deletions - Green
- Comments - Blue
- Dimensions - Graphite
- Provide the applicable reference for all entries, such as the change order number, the request for information (RFI) number, or the approved shop drawing number.
- Date all entries.
- Clearly identify all items in the entry with notes similar to those in the Contract Drawings (such as pipe symbols, centerline elevations, materials, pipe joint abbreviations, etc.).

The Contractor shall certify on the Record Drawings that said drawings are an accurate depiction of built conditions, and in conformance with the requirements detailed above. The Contractor shall submit final Record Drawings to the Contracting Agency. Contracting Agency acceptance of the Record Drawings is one of the requirements for achieving Physical Completion.

No payment will be made for "Record Drawings" and shall be considered incidental to the "Mobilization" bid item.

## **1-06 CONTROL OF MATERIAL**

***(1/1/2016 COK GSP)***

### **1-06.1 Approval of Materials Prior to Use**

Section 1-06.1 is supplemented as follows:

Approval of a Material source shall not mean acceptance of the Material. The Material shall meet the requirements of the Contract.

***(January 4, 2016 APWA GSP)***

### **1-06.6 Recycled Materials**

Delete this section, including its subsections, and replace it with the following:

The Contractor shall make their best effort to utilize recycled materials in the construction of the project. Approval of such material use shall be as detailed elsewhere in the Standard Specifications.

Prior to Physical Completion the Contractor shall report the quantity of recycled materials that were utilized in the construction of the project for each of the items listed in Table 9-03.21(1)E in Section 9-03.21. The report shall include hot mix asphalt, recycled concrete aggregate, recycled glass, steel furnace slag and other recycled materials (e.g. utilization of on-site material and aggregates from concrete returned to the supplier). The Contractor's report shall be provided on DOT form 350-075 Recycled Materials Reporting.

## **1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC**

***(1/1/2016 COK GSP)***

### **1-07.1 Laws to Be Observed**

Section 1-07.1 is supplemented with the following:

The Contractor shall at all times eliminate noise to the maximum practicable extent. Air compressing plants shall be equipped with silencers, and the exhaust of all gasoline motors or other power equipment shall be provided with mufflers. Special care shall be used to avoid noise or other nuisances, and the Contractor shall strictly observe all federal, state, and local regulations concerning noise.

The Contractor shall make an effort to reduce carbon emissions by turning off engines on construction equipment not in active use, and on trucks that are idling while waiting to load or unload material for five minutes or more.

#### **Compliance with Laws**

The Contractor shall comply with the requirements of all other City ordinances, state statutes, laws, and regulations, whether or not stated herein, which are specifically applicable to the public improvements and work to be performed.

***(October 1, 2005 APWA GSP)***

Supplement this section with the following:

In cases of conflict between different safety regulations, the more stringent regulation shall apply.

The Washington State Department of Labor and Industries shall be the sole and paramount administrative agency responsible for the administration of the provisions of the Washington Industrial Safety and Health Act of 1973 (WISHA).

The Contractor shall maintain at the project site office, or other well known place at the project site, all articles necessary for providing first aid to the injured. The Contractor shall establish, publish, and make known to all employees, procedures for ensuring immediate removal to a hospital, or doctor's care, persons, including employees, who may have been injured on the project site. Employees should not be permitted to work on the project site before the Contractor has established and made known procedures for removal of injured persons to a hospital or a doctor's care.

The Contractor shall have sole responsibility for the safety, efficiency, and adequacy of the Contractor's plant, appliances, and methods, and for any damage or injury resulting from their failure, or improper maintenance, use, or operation. The Contractor shall be solely and completely responsible for the conditions of the project site, including safety for all persons and property in the performance of the work. This requirement shall apply continuously, and not be limited to normal working hours. The required or implied duty of the Engineer to conduct construction review of the Contractor's performance does not, and shall not, be intended to include review and adequacy of the Contractor's safety measures in, on, or near the project site.

***(1/1/2016 COK GSP)***

## **Contractor's Safety Responsibilities**

These construction documents and the joint and several phases of construction hereby contemplated are to be governed at all times by applicable provisions of the federal law(s), including but not limited to the latest amendments of the following:

Williams-Steiger Occupational Safety and Health Act of 1980, Public Law 91-596.

Part 1910 - Occupational Safety and Health Standards, Chapter XVII of Title 29, Code of Federal Regulations.

This project, the Contractor and its subcontractors, shall, at all times, be governed by Chapter XIII of Title 29, Code of Federal Regulations, Part 1518 - Safety and Health Regulations for Construction (35 CFR 75), as amended to date.

To implement the program, and to provide safe and healthful working conditions for all persons, the construction superintendent or his/her designated safety officer shall conduct general project safety meetings at the site at least once each month during the course of construction.

The prime contractor and all subcontractors shall immediately report all accidents, injuries, and health hazards to the Manager, in writing. This shall not obviate any mandatory reporting under the provisions of the Occupational Safety and Health Act of 1970. This program shall become a part of the contract documents and the contract between the Owner and the Contractor, and all subcontractors, as though fully written therein.

Where the location of the work is in proximity to overhead wires and power lines, the Contractor shall coordinate all work with the utility and shall provide for such measures as may be necessary for the protection of the workers.

***(June 27, 2011 APWA GSP)***

### **1-07.2 State Taxes**

Delete this section, including its sub-sections, in its entirety and replace it with the following:

#### **1-07.2 State Sales Tax**

The Washington State Department of Revenue has issued special rules on the State sales tax. Sections 1-07.2(1) through 1-07.2(3) are meant to clarify those rules. The Contractor should contact the Washington State Department of Revenue for answers to questions in this area. The Contracting Agency will not adjust its payment if the Contractor bases a bid on a misunderstood tax liability.

The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract amounts. In some cases, however, state retail sales tax will not be included. Section 1-07.2(2) describes this exception.

The Contracting Agency will pay the retained percentage (or release the Contract Bond if a FHWA-funded Project) only if the Contractor has obtained from the Washington State Department of Revenue a certificate showing that all contract-related taxes have been paid (RCW 60.28.051). The Contracting Agency may deduct from its payments to the Contractor any amount the Contractor may owe the Washington State Department of Revenue, whether the amount owed relates to this contract or not. Any amount so deducted will be paid into the proper State fund.

#### ***1-07.2(1) State Sales Tax — Rule 171***

WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, roads, etc., which are owned by a municipal corporation, or political subdivision of the state, or by the United States, and which are used primarily for foot or vehicular traffic. This includes storm or combined sewer systems within and included as a part of the street or road drainage system and power lines

when such are part of the roadway lighting system. For work performed in such cases, the Contractor shall include Washington State Retail Sales Taxes in the various unit bid item prices, or other contract amounts, including those that the Contractor pays on the purchase of the materials, equipment, or supplies used or consumed in doing the work.

**1-07.2(2) State Sales Tax — Rule 170**

WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or existing buildings, or other structures, upon real property. This includes, but is not limited to, the construction of streets, roads, highways, etc., owned by the state of Washington; water mains and their appurtenances; sanitary sewers and sewage disposal systems unless such sewers and disposal systems are within, and a part of, a street or road drainage system; telephone, telegraph, electrical power distribution lines, or other conduits or lines in or above streets or roads, unless such power lines become a part of a street or road lighting system; and installing or attaching of any article of tangible personal property in or to real property, whether or not such personal property becomes a part of the realty by virtue of installation.

For work performed in such cases, the Contractor shall collect from the Contracting Agency, retail sales tax on the full contract price. The Contracting Agency will automatically add this sales tax to each payment to the Contractor. For this reason, the Contractor shall not include the retail sales tax in the unit bid item prices, or in any other contract amount subject to Rule 170, with the following exception.

Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or consumable supplies not integrated into the project. Such sales taxes shall be included in the unit bid item prices or in any other contract amount.

**1-07.2(3) Services**

The Contractor shall not collect retail sales tax from the Contracting Agency on any contract wholly for professional or other services (as defined in Washington State Department of Revenue Rules 138 and 244).

**(1/1/2016 COK GSP)**

**1-07.14 Responsibility for Damage**

Section 1-07.14 is supplemented with the following:

The Contractor further agrees that it is waiving immunity under Industrial Insurance Law Title 51 RCW for any claims brought against the City by its employees. In the event Contractor fails, after receipt of timely notice from the City, to appear, defend, or pay as required by the first paragraph of this section, then in that event and in that event only, the City may in its sole discretion, deduct from the progress payments to the Contractor and pay any amount sufficient to pay any claim, of which the City may have knowledge and regardless of the informalities of notice of such claim, arising out of the performance of this contract, provided the City has theretofore given notice of receipt of such claim to the Contractor and the Contractor has failed to act thereon.

**1-07.15 Temporary Water Pollution/Erosion Control**

**1-07.15(1) Spill Prevention, Control, and Countermeasures Plan (COK GSP)**

SPCC Plan Element Requirements is supplemented with the following:

2. City of Kirkland spill response hotline (425) 587-3900 shall be listed as the first point of contact.

**1-07.15(1) Spill Prevention, Control, and Countermeasures Plan (\*\*\*\*\*)**

**SPCC Plan Element Requirements**

SPCC Plan Element Requirements is supplemented with the following:

11. The SPCC Plan shall incorporate information that meets the requirements for a Stormwater Pollution Prevention Plan (SWPPP) defined at the Department of Ecology website (<http://www.ecy.wa.gov/programs/wq/sand/swppp.html> or current weblink).
12. The SPCC shall incorporate information that meets the requirements of the Temporary Erosion and Sediment Control (TESC) Plan defined in 8-01.3(1)A.

**1-07.16 Protection and Restoration of Property**

**(1/1/2016 COK GSP)**

**1-07.16(3) Fences, Mailboxes, Incidentals**

Section 1-07.16(3) is supplemented with the following:

**U.S. Postal Service Collection Boxes, Mail Receptacles, and other Structures:** U.S. Postal Service collection box and other Structures requiring temporary relocation to accommodate construction, the Contractor shall contact the Kirkland Postmaster at least 5 Working Days in advance for coordination. Only the U.S. Post Office will move Postal Service-owned property.

**(1/1/2016 COK GSP)**

**1-07.17 Utilities and Similar Facilities**

Section 1-07.17 is supplemented with the following:

Locations and dimensions shown in the Plans for existing facilities are in accordance with available information obtained without uncovering, measuring, or other verification.

The Contractor is alerted to the existence of Chapter 19.122 RCW, a law relating to underground utilities. Any cost to the Contractor incurred as a result of this law shall be at the Contractor's expense.

No excavation shall begin until all known facilities in the vicinity of the excavation area have been located and marked.

The Contractor shall give advance notice to all utility companies involved where work is to take place and in all other respects comply with the provisions of Chapter 19.122 RCW. Notice shall include, but not be limited to, the following utility companies:

- Water, sewer, storm, streets – minimum two working days in advance
- Power (Electric and Natural Gas) – minimum 48 hours in advance
- Telephone – minimum 30 days in advance
- Natural Gas – minimum 48 hours in advance
- Cable Television – minimum 48 hours in advance
- Transit – minimum 21 days in advance

The following is a list of some utilities serving the Kirkland area. This is not intended or represented to be a complete list and is provided for the Contractor's convenience.

Utility	Agency/Company	Address	Contact	Phone
Water/Sewer	City of Kirkland	123 Fifth Avenue Kirkland, WA 98033	Josh Pantzke	(425) 587-3900
Storm Drainage	City of Kirkland	123 Fifth Avenue Kirkland, WA 98033	Josh Pantzke	(425) 587-3900
Water / Sewer (North area of Kirkland)	Northshore Utility District	6380 NE 185th St Kenmore, WA 98028	George Matote	(425) 398-4400
Street	City of Kirkland	123 Fifth Avenue Kirkland, WA 98033	Greg Neumann	(425) 587-3900
Natural Gas / Electric	Puget Sound Energy	P.O. Box 97034 EST-11W Bellevue, Washington 98009-9734	Jeanne Coleman	(425) 449-7410
Telephone/ FIOS	Frontier Communications		Jay Schwab	(425) 263-4019
Cable Television	Comcast	1525 - 75th St SW, Suite 200 Everett, WA 98203	Raymond Pilkenton	(425) 263-5332
Network	Verizon/MCI	11311 NE 120 <sup>th</sup> St Kirkland, WA 98034	Brad Landis Scott Christenson	(425) 201-0901 (425) 471-1079
School District Transportation	Lake Washington School District	15212 NE 95th St Redmond, WA 98052	Jeff Miles	(425) 936-1120
Transit	King County METRO	MS SVQ-TR-0100 1270 6th Ave S Seattle, WA 98134	METRO Construction Information Center	(206) 477-1140 (206) 477-0438
Water (Northeast area of Kirkland)	Woodinville Water District	17238 NE Woodinville Duvall Road, Woodinville, WA 98072	Ken McDowell	(425) 487-4104
Olympic Pipeline	BP		Kenneth Metcalf Joseph Stone	(425) 981-2575 (425) 981-2506

Note that most utility companies may be contacted for locations through the "One Call" system, 1-800-424-5555. In the event of a gas emergency, call 911 and then the PSE hotline at 1-888-225-5773 (1-888-CALL-PSE).

The Contractor shall coordinate the work with these utilities and shall notify the Engineer in advance of any conflicts affecting the work schedule. The utility companies shall witness or perform all shutdowns, connections or disconnections.

Wherever in the course of the construction operation it becomes necessary to cause an outage of utilities, it shall be the Contractor's responsibility to notify the affected users not less than twenty-four (24) hours in advance of the creation of such outage. The Contractor shall make reasonable effort to minimize the duration of outages.

The Contractor shall be responsible for any breakage of utilities or services resulting from its operations and shall hold the City and its agents harmless from any claims resulting from disruption of, or damage to, same.

## **Other Notifications**

Service Area Turn Off: All service area turn off notices must be distributed to affected parties two working days in advance of any scheduled shut off. City to provide door hangers and affected service area map. The contractor shall fill in all required information prior to hanging door hanger.

Entry onto Private Property: Each property owner shall be given two working days advance Written Notice prior to entry by the Contractor.

Loop Detection Systems: Where an excavation is to take place through a signal loop detector system, the Contractor shall provide at least five (5) Working Days advance notice to the City Signal Shop at (425) 587-3920 to coordinate temporary signal wire disconnect and installation of temporary signal detection equipment.

Survey Monuments: When proposed pavement removal is close to existing survey monumentation, or proposed pavement removal includes existing survey monumentation, the Contractor shall provide a minimum 4 Working Days advance notice to the Engineer to allow survey crews to tie the monument out and reset the monument after pavement installation.

**(1/1/2016 COK GSP)**

### **1-07.17(2) Utility Construction, Removal or Relocation by Others**

Section 1-07.17(2) is supplemented with the following:

Under no circumstances will discrepancies in location or incompleteness in description of existing utilities or improvements, whether they are visible from the surface, buried, or otherwise obscured, be considered as a basis for additional compensation to the Contractor.

**(January 4, 2016 APWA GSP)**

### **1-07.18 Public Liability and Property Damage Insurance**

Delete this section in its entirety, and replace it with the following:

#### **1-07.18 Insurance**

##### **1-07.18(1) General Requirements**

- A. The Contractor shall procure and maintain the insurance described in all subsections of section 1-07.18 of these Special Provisions, from insurers with a current A. M. Best rating of not less than A: VII and licensed to do business in the State of Washington. The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer's financial condition.
- B. The Contractor shall keep this insurance in force without interruption from the commencement of the Contractor's Work through the term of the Contract and for thirty (30) days after the Physical Completion date, unless otherwise indicated below.
- C. If any insurance policy is written on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Completion Date or earlier termination of this Contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.

- D. The Contractor's Automobile Liability, Commercial General Liability and Excess or Umbrella Liability insurance policies shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or self-insured pool coverage. Any insurance, self-insurance, or self-insured pool coverage maintained by the Contracting Agency shall be excess of the Contractor's insurance and shall not contribute with it.
- E. The Contractor shall provide the Contracting Agency and all additional insureds with written notice of any policy cancellation, within two business days of their receipt of such notice.
- F. The Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by the Contracting Agency
- G. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five business days' notice to the Contractor to correct the breach, immediately terminate the Contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.
- H. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the Contract and no additional payment will be made.

**1-07.18(2) Additional Insured**

All insurance policies, with the exception of Workers Compensation, and of Professional Liability and Builder's Risk (if required by this Contract) shall name the following listed entities as additional insured(s) using the forms or endorsements required herein:

- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers

The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, irrespective of whether such limits maintained by the Contractor are greater than those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(4) describes limits lower than those maintained by the Contractor.

For Commercial General Liability insurance coverage, the required additional insured endorsements shall be at least as broad as ISO forms CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

**1-07.18(3) Subcontractors**

The Contractor shall cause each Subcontractor of every tier to provide insurance coverage that complies with all applicable requirements of the Contractor-provided insurance as set forth herein, except the Contractor shall have sole responsibility for determining the limits of coverage required to be obtained by Subcontractors.

The Contractor shall ensure that all Subcontractors of every tier add all entities listed in 1-07.18(2) as additional insureds, and provide proof of such on the policies as required by that section as detailed in 1-07.18(2) using an endorsement as least as broad as ISO CG 20 10 10 01 for ongoing operations and CG 20 37 10 01 for completed operations.

Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency evidence of insurance and copies of the additional insured endorsements of each Subcontractor of every tier as required in 1-07.18(4) Verification of Coverage.

**1-07.18(4) Verification of Coverage**

The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the signed Contract for the work. Failure of Contracting Agency to demand such verification of coverage with these insurance requirements or failure of Contracting Agency to identify a deficiency from the insurance documentation provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

Verification of coverage shall include:

1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as additional insured(s), showing the policy number. The Contractor may submit a copy of any blanket additional insured clause from its policies instead of a separate endorsement.
3. Any other amendatory endorsements to show the coverage required herein.
4. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these requirements – actual endorsements must be submitted.

Upon request by the Contracting Agency, the Contractor shall forward to the Contracting Agency a full and certified copy of the insurance policy(s). If Builders Risk insurance is required on this Project, a full and certified copy of that policy is required when the Contractor delivers the signed Contract for the work.

**1-07.18(5) Coverages and Limits**

The insurance shall provide the minimum coverages and limits set forth below. Contractor's maintenance of insurance, its scope of coverage, and limits as required herein shall not be construed to limit the liability of the Contractor to the coverage provided by such insurance, or otherwise limit the Contracting Agency's recourse to any remedy available at law or in equity.

All deductibles and self-insured retentions must be disclosed and are subject to approval by the Contracting Agency. The cost of any claim payments falling within the deductible or self-insured retention shall be the responsibility of the Contractor. In the event an additional insured incurs a liability subject to any policy's deductibles or self-insured retention, said deductibles or self-insured retention shall be the responsibility of the Contractor.

**1-07.18(5)A Commercial General Liability**

Commercial General Liability insurance shall be written on coverage forms at least as broad as ISO occurrence form CG 00 01, including but not limited to liability arising from premises, operations, stop gap liability, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract. There shall be no exclusion for liability arising from explosion, collapse or underground property damage.

The Commercial General Liability insurance shall be endorsed to provide a per project general aggregate limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

Contractor shall maintain Commercial General Liability Insurance arising out of the Contractor's completed operations for at least three years following Substantial Completion of the Work.

Such policy must provide the following minimum limits:

\$1,000,000	Each Occurrence
\$2,000,000	General Aggregate
\$2,000,000	Products & Completed Operations Aggregate
\$1,000,000	Personal & Advertising Injury each offence

\$1,000,000 Stop Gap / Employers' Liability each accident

**1-07.18(5)B Automobile Liability**

Automobile Liability shall cover owned, non-owned, hired, and leased vehicles; and shall be written on a coverage form at least as broad as ISO form CA 00 01. If the work involves the transport of pollutants, the automobile liability policy shall include MCS 90 and CA 99 48 endorsements.

Such policy must provide the following minimum limit:

\$1,000,000 Combined single limit each accident

**1-07.18(5)C Workers' Compensation**

The Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.

*(January 4, 2016 APWA GSP)*

**1-07.18(5)D Excess or Umbrella Liability**

The Contractor shall provide Excess or Umbrella Liability insurance with limits of not less than \$3 million each occurrence and annual aggregate. This excess or umbrella liability coverage shall be excess over and as least as broad in coverage as the Contractor's Commercial General and Auto Liability insurance

All entities listed under 1-07.18(2) of these Special Provisions shall be named as additional insureds on the Contractor's Excess or Umbrella Liability insurance policy.

This requirement may be satisfied instead through the Contractor's primary Commercial General and Automobile Liability coverages, or any combination thereof that achieves the overall required limits of insurance.

*(January 4, 2016 APWA GSP)*

**1-07.18(5)K Professional Liability**

The Contractor and/or its Subcontractor(s) and/or its design consultant providing construction management, value engineering, or any other design-related non-construction professional services shall provide evidence of Professional Liability insurance covering professional errors and omissions.

Such policy shall provide the following minimum limits:

\$1,000,000 per claim and annual aggregate

If the scope of such design-related professional services includes work related to pollution conditions, the Professional Liability insurance shall include coverage for Environmental Professional Liability.

If insurance is on a claims made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract.

**1-07.23 Public Convenience and Safety**

Section 1-07.23 is supplemented with the following:

***(1/1/2016 COK GSP)***

No road or street shall be closed to the public except as permitted in these plans and specifications or with the approval of the Engineer and proper governmental authority. Fire hydrants on or adjacent to the work shall be kept accessible to fire fighting equipment at all times. Provision shall be made

by the Contractor to ensure the proper functioning of all gutters, sewer inlets, drainage ditches and culverts, irrigation ditches and natural water courses, and storm sewer facilities throughout the project. Temporary interruption of service will be allowed only with the permission of the Engineer.

The Kirkland Police Department and Kirkland Fire Department shall be notified at least four (4) hours in advance of any actions by the Contractor that may affect the functions of either the Police Department or Fire Department.

The Contractor shall conduct its work and take preventative measures so that dust or other particulate matter in the project area shall not become objectionable to the adjacent property owners or general public. Should the Owner determine the Contractor is not fulfilling its obligation in this regard; the Owner reserves the right to take such action as may be necessary to remedy the objectionable condition and to charge the Contractor with any cost that may be incurred in such remedial action. All work shall be carried on with due regard for the safety of the public. No driveway, whether public, commercial, or private, may be closed without prior approval of the Owner, project supervisor, or Engineer unless written authority has been given by the affected property owner. The Contractor shall be responsible for notifying the affected property owners 24 hours in advance of scheduled interruptions to access.

***(1/1/2016 COK GSP)***

**Pedestrian Control and Protection**

When the work area encroaches upon a sidewalk, walkway or crosswalk area, special consideration must be given to pedestrian safety. Maximum effort must be made to separate pedestrians from the work area. Protective barricades, fencing, and bridges, together with warning and guidance devices and signs, shall be utilized so that the passageway for pedestrians is safe and well defined. Whenever pedestrian walkways are provided across excavations, they shall be provided with suitable handrails. Footbridges shall be safe, strong, free of bounce and sway, have a slip resistant coating, and be free of cracks, holes, and irregularities that could cause tripping. Ramps shall be provided at the entrance and exit of all raised footbridges, again to prevent tripping. Adequate illumination and reflectorization shall be provided during hours of darkness. All walkways shall be maintained with at least 4 feet clear width.

Where walks are closed by construction, an alternate walkway shall be provided, preferably within the planting strip.

Where it is necessary to divert pedestrians into the roadway, barricading or channeling devices shall be provided to separate the pedestrian walkway from the adjacent vehicular traffic lane. At no time shall pedestrians be diverted into a portion of a street used concurrently by moving vehicular traffic.

At locations where adjacent alternate walkways cannot be provided, appropriate signs shall be posted at the limits of construction and in advance of the closure at the nearest crosswalk or intersection to divert pedestrians across the street.

Physical barricades shall be installed to prevent visually impaired people from inadvertently entering a closed area. Pedestrian walkways shall be wheelchair accessible at all times. Pedestrian access shall be maintained to all properties adjacent to the construction site.

***(May 2, 2017 APWA GSP)***

***1-07.23(1) Construction under Traffic***

Revise the third sentence of the second paragraph to read:

Accessibility to existing or temporary pedestrian push buttons shall not be impaired; if approved by the Contracting Agency activating pedestrian recall timing or other accommodation may be allowed during construction.

***(July 23, 2015 APWA GSP)***

**1-07.24 Rights of Way**

Delete this section and replace it with the following:

Street Right of Way lines, limits of easements, and limits of construction permits are indicated in the Plans. The Contractor's construction activities shall be confined within these limits, unless arrangements for use of private property are made.

Generally, the Contracting Agency will have obtained, prior to bid opening, all rights of way and easements, both permanent and temporary, necessary for carrying out the work. Exceptions to this are noted in the Bid Documents or will be brought to the Contractor's attention by a duly issued Addendum.

Whenever any of the work is accomplished on or through property other than public Right of Way, the Contractor shall meet and fulfill all covenants and stipulations of any easement agreement obtained by the Contracting Agency from the owner of the private property. Copies of the easement agreements may be included in the Contract Provisions or made available to the Contractor as soon as practical after they have been obtained by the Engineer.

Whenever easements or rights of entry have not been acquired prior to advertising, these areas are so noted in the Plans. The Contractor shall not proceed with any portion of the work in areas where right of way, easements or rights of entry have not been acquired until the Engineer certifies to the Contractor that the right of way or easement is available or that the right of entry has been received. If the Contractor is delayed due to acts of omission on the part of the Contracting Agency in obtaining easements, rights of entry or right of way, the Contractor will be entitled to an extension of time. The Contractor agrees that such delay shall not be a breach of contract.

Each property owner shall be given 48 hours notice prior to entry by the Contractor. This includes entry onto easements and private property where private improvements must be adjusted.

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Engineer a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of each property disturbed or otherwise interfered with by reasons of construction pursued under this contract. The statement shall be signed by the private property owner, or proper authority acting for the owner of the private property affected, stating that permission has been granted to use the property and all necessary permits have been obtained or, in the case of a release, that the restoration of the property has been satisfactorily accomplished. The statement shall include the parcel number, address, and date of signature. Written releases must be filed with the Engineer before the Completion Date will be established.

***(1/1/2016 COK GSP)***

The Contractor shall file with the Engineer signed property release forms (in the format as detailed below) for all properties disturbed or damaged by the Contractor's operations.

<b>PROPERTY RELEASE</b>	
	_____ _____ _____ <i>(Contractor's name and address)</i>
DATE: _____	
I, _____	owner of _____
_____ <i>(Contractor's name)</i> ,	hereby release _____,
from any property damage or personal injury resulting from construction on or adjacent to my property located at _____	
during construction of the _____. My signature below is my acknowledgment and acceptance that my property, as identified above, was returned to a satisfactory condition.	
	Signed: _____
	Name: _____
	Address: _____
	_____
	Phone: _____

**1-08 PROSECUTION AND PROGRESS**

Add the following new section:

***(May 25, 2006 APWA GSP)***

**1-08.0 Preliminary Matters**

Add the following new section:

***(October 10, 2008 APWA GSP)***

***1-08.0(1) Preconstruction Conference***

Prior to the Contractor beginning the work, a preconstruction conference will be held between the Contractor, the Engineer and such other interested parties as may be invited. The purpose of the preconstruction conference will be:

- To review the initial progress schedule;
- To establish a working understanding among the various parties associated or affected by the work;
- To establish and review procedures for progress payment, notifications, approvals, submittals, etc.;
- To establish normal working hours for the work;
- To review safety standards and traffic control; and
- To discuss such other related items as may be pertinent to the work.

The Contractor shall prepare and submit at the preconstruction conference the following:

- A breakdown of all lump sum items;
- A preliminary schedule of working drawing submittals; and
- A list of material sources for approval if applicable.

Add the following new section:

**(1/1/2016 COK GSP)**

**1-08.0(2) Hours of Work**

Except in the event of an emergency, no work shall be done between the hours of 6:00 p.m. and 7:00 a.m., or weekends (except driveway construction), or holidays observed by the City of Kirkland and identified in Section 1-08.5 of the Standard Specifications. If the proper and efficient prosecution of the work requires operations during the night, hours of operation more than 8 hours per day, or work weeks greater than 40 hours in duration, the written permission of the Owner shall be obtained before starting such items of the work and shall be in full compliance with terms therewith.

Except in the case of emergency or unless otherwise approved by the Contracting Agency, the normal straight time working hours for the contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. of a working day with a maximum 1-hour lunch break and a 5-day work week. The normal straight time 8-hour working period for the contract shall be established at the preconstruction conference or prior to the Contractor commencing the work.

If a Contractor desires to perform work on holidays, Saturdays, Sundays, or before 7:00 a.m. or after 6:00 p.m. on any day, the Contractor shall apply in writing to the Engineer for permission to work such times. Permission to work longer than an 8-hour period between 7:00 a.m. and 6:00 p.m. is not required. Such requests shall be submitted to the Engineer no later than noon on the working day prior to the day for which the Contractor is requesting permission to work.

Permission to work between the hours of 10:00 p.m. and 7:00 a.m. during weekdays and between the hours of 10:00 p.m. and 9:00 a.m. on weekends or holidays may also be subject to noise control requirements. Approval to continue work during these hours may be revoked at any time the Contractor exceeds the Contracting Agency's noise control regulations or complaints are received from the public or adjoining property owners regarding the noise from the Contractor's operations. The Contractor shall have no claim for damages or delays should such permission be revoked for these reasons.

Permission to work Saturdays, Sundays, holidays or other than the agreed upon normal straight time working hours Monday through Friday may be given subject to certain other conditions set forth by the Contracting Agency or Engineer. These conditions may include but are not limited to: requiring the Engineer or such assistants as the Engineer may deem necessary to be present during the work; requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency employees who worked during such times, on non Federal aid projects; considering the work performed on Saturdays and holidays as working days with regards to the contract time; and considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period. Assistants may include, but are not limited to, survey crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees when in the opinion of the Engineer, such work necessitates their presence.

**Arterial Streets**

No work will be performed on arterial streets during the peak traffic hours of 7:00 a.m. – 9:00 a.m. and 3:30 p.m. – 6:00 p.m., except emergency work to restore services, unless a City-approved traffic control plan allows work during the peak hours. The following streets are classified as arterials:

<b>STREET</b>	<b>FROM</b>	<b>TO</b>
Central Way/NE 85th St	Market St	132nd Ave NE
Juanita Dr NE /NE Juanita Dr	NE 143 <sup>rd</sup> St (City Limits)	98th Ave NE
Juanita Woodinville Way	100 <sup>th</sup> Ave NE	NE 145 <sup>th</sup> St (City Limits)

Lake St/Lake Washington Blvd/Northup Wy	Central Way	Northup Way (City Limits)
Kirkland Ave/Kirkland Way	Lake St	NE 85 <sup>th</sup> St
Lakeview Dr /NE 68th St/NE 70th St	Lake Washington Blvd	132nd Ave NE
Market St/98th Ave NE/100th Ave NE	Central Way	NE 145 <sup>th</sup> St (City Limits)
NE 116th St	98th Ave NE	Slater Ave NE
NE 120th St/132nd Ave NE	Slater Ave NE	NE 60th St (City Limits)
NE 124th St	100th Ave NE	East City Limits
NE 128th St	116 <sup>th</sup> Ave NE/116 <sup>th</sup> Way NE	120 <sup>th</sup> Ave NE
Simonds Rd NE	92 <sup>nd</sup> Ave NE (City Limits)	100 <sup>th</sup> Ave NE
Slater Ave NE	NE 116 <sup>th</sup> St	NE 124 <sup>th</sup> St
Totem Lake Blvd	NE 132nd St	124th Ave NE
3 <sup>rd</sup> Street/State Street	Central Way	NE 68 <sup>th</sup> Street/Lakeview Dr.
6 <sup>th</sup> St/6 <sup>th</sup> St S/108 <sup>th</sup> Ave NE	Central Way/NE 85 <sup>th</sup> St	South City Limits
90 <sup>th</sup> Ave NE/NE 131st Way/NE 132nd St	NE 134 <sup>th</sup> St	132nd Ave NE
120 <sup>th</sup> Ave NE/116 <sup>th</sup> Ave NE/116 <sup>th</sup> Way NE	NE 112 <sup>th</sup> St	NE 132 <sup>nd</sup> St
124th Ave NE	NE 85th St	NE 124th St
124th Ave NE	NE 132 <sup>nd</sup> St	NE 145 <sup>th</sup> PI (City Limits)

Add the following new section:

**1-08.0(2) Hours of Work**

*(December 8, 2014 APWA GSP)*

Except in the case of emergency or unless otherwise approved by the Engineer, the normal working hours for the Contract shall be any consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. Monday through Friday, exclusive of a lunch break. If the Contractor desires different than the normal working hours stated above, the request must be submitted in writing prior to the preconstruction conference, subject to the provisions below. The working hours for the Contract shall be established at or prior to the preconstruction conference.

All working hours and days are also subject to local permit and ordinance conditions (such as noise ordinances).

If the Contractor wishes to deviate from the established working hours, the Contractor shall submit a written request to the Engineer for consideration. This request shall state what hours are being requested, and why. Requests shall be submitted for review no later than **5 working days** prior to the day(s) the Contractor is requesting to change the hours.

If the Contracting Agency approves such a deviation, such approval may be subject to certain other conditions, which will be detailed in writing. For example:

1. On non-Federal aid projects, requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency representatives who worked during such times. (The Engineer may require designated representatives to be present during the work. Representatives who may be deemed necessary by the Engineer include, but are not limited to: survey crews; personnel from the Contracting Agency's material testing lab; inspectors; and other Contracting Agency employees or third party consultants when, in the opinion of the Engineer, such work necessitates their presence.)
2. Considering the work performed on Saturdays, Sundays, and holidays as working days with regard to the contract time.

3. Considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period.
4. If a 4-10 work schedule is requested and approved the non working day for the week will be charged as a working day.

### **1-08.1 Subcontracting**

***(1/1/2016 COK GSP)***

Section 1-08.1 is supplemented with the following:

A Subcontractor or an Agent to the Subcontractor will not be permitted to perform any work under the contract until the following documents have been completed and submitted to the Engineer:

1. Request to Sublet Work (form 421-012).
2. Statement of Intent to Pay Prevailing Wages (Form 700-029-000).

The Contractor's records pertaining to the requirements of this Special Provision shall be open to inspection or audit by representatives of the Department during the life of the contract and for a period of not less than three years after the date of acceptance of the contract. The Contractor shall retain these records for that period. The Contractor shall also guarantee that these records of all Subcontractors and Agents shall be open to similar inspection or audit for the same period.

***(1/1/2016 COK GSP)***

### **1-08.3 Progress Schedule**

The order of work will be at the Contractor's option, in keeping with good construction practice and the terms of the contract. All work shall be carried out in accordance with the requirements of the City of Kirkland in compliance with the plans and specifications. However, the Contractor shall so schedule the work within the time constraints noted in the various contract documents, including any permits. The Contractor is cautioned to review said documents and permits and schedule the work appropriately as no additional compensation will be made to the Contractor due to the time constraints imposed by such documents.

***(March 13, 2012 APWA GSP)***

#### ***1-08.3(2)A Type A Progress Schedule***

Revise this section to read:

The Contractor shall submit **5** copies of a Type A Progress Schedule no later than at the preconstruction conference, or some other mutually agreed upon submittal time. The schedule may be a critical path method (CPM) schedule, bar chart, or other standard schedule format. Regardless of which format used, the schedule shall identify the critical path. The Engineer will evaluate the Type A Progress Schedule and approve or return the schedule for corrections within 15 calendar days of receiving the submittal.

***(July 23, 2015 APWA GSP)***

### **1-08.4 Prosecution of Work**

Delete this section in its entirety, and replace it with the following:

#### **1-08.4 Notice to Proceed and Prosecution of Work**

Notice to Proceed will be given after the contract has been executed and the contract bond and evidence of insurance have been approved and filed by the Contracting Agency. The Contractor shall

not commence with the work until the Notice to Proceed has been given by the Engineer. The Contractor shall commence construction activities on the project site within ten days of the Notice to Proceed Date, unless otherwise approved in writing. The Contractor shall diligently pursue the work to the physical completion date within the time specified in the contract. Voluntary shutdown or slowing of operations by the Contractor shall not relieve the Contractor of the responsibility to complete the work within the time(s) specified in the contract.

When shown in the Plans, the first order of work shall be the installation of high visibility fencing to delineate all areas for protection or restoration, as described in the Contract. Installation of high visibility fencing adjacent to the roadway shall occur after the placement of all necessary signs and traffic control devices in accordance with 1-10.1(2). Upon construction of the fencing, the Contractor shall request the Engineer to inspect the fence. No other work shall be performed on the site until the Contracting Agency has accepted the installation of high visibility fencing, as described in the Contract.

***(September 12, 2016 APWA GSP, Option A)***

**1-08.5 TIME FOR COMPLETION**

Revise the third and fourth paragraphs to read:

Contract time shall begin on the first working day following the Notice to Proceed Date.

Each working day shall be charged to the contract as it occurs, until the contract work is physically complete. If substantial completion has been granted and all the authorized working days have been used, charging of working days will cease. Each week the Engineer will provide the Contractor a statement that shows the number of working days: (1) charged to the contract the week before; (2) specified for the physical completion of the contract; and (3) remaining for the physical completion of the contract. The statement will also show the nonworking days and any partial or whole day the Engineer declares as unworkable. Within 10 calendar days after the date of each statement, the Contractor shall file a written protest of any alleged discrepancies in it. To be considered by the Engineer, the protest shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of time disputed. By not filing such detailed protest in that period, the Contractor shall be deemed as having accepted the statement as correct. If the Contractor is approved to work 10 hours a day and 4 days a week (a 4-10 schedule) and the fifth day of the week in which a 4-10 shift is worked would ordinarily be charged as a working day then the fifth day of that week will be charged as a working day whether or not the Contractor works on that day.

Revise the sixth paragraph to read:

The Engineer will give the Contractor written notice of the completion date of the contract after all the Contractor's obligations under the contract have been performed by the Contractor. The following events must occur before the Completion Date can be established:

1. The physical work on the project must be complete; and
2. The Contractor must furnish all documentation required by the contract and required by law, to allow the Contracting Agency to process final acceptance of the contract. The following documents must be received by the Project Engineer prior to establishing a completion date:
  - a. Certified Payrolls (per Section 1-07.9(5)).
  - b. Material Acceptance Certification Documents
  - c. Monthly Reports of Amounts Credited as DBE Participation, as required by the Contract Provisions.
  - d. Final Contract Voucher Certification
  - e. Copies of the approved "Affidavit of Prevailing Wages Paid" for the Contractor and all Subcontractors
  - f. Property owner releases per Section 1-07.24

**(1/1/2016 COK GSP)**

Section 1-08.5 is supplemented with the following:

This project shall be physically completed in its entirety within 35 working days.

**(1/1/2016 COK GSP)**

### **1-08.9 Liquidated Damages**

The third paragraph of Section 1-08.9 is revised to read as follows:

Accordingly, the Contractor agrees:

1. To pay (according to the following formula) liquidated damages for each working day beyond the number of working days established for Physical Completion, and
2. To authorize the Engineer to deduct these liquidated damages from any money due or coming to the Contractor.

### **LIQUIDATED DAMAGES FORMULA**

For  $C > \$50,000 \rightarrow LD = 0.15 \times C \div T$ , and  
For  $C \leq \$50,000 \rightarrow LD = 0.30 \times C \div T$ .

Where:

LD = liquidated damages per working day (rounded to the nearest dollar)  
C = original Contract amount  
T = original time for Physical Completion

**(August 14, 2013 APWA GSP)**

Revise the fourth paragraph to read:

When the Contract Work has progressed to Substantial Completion as defined in the Contract. The Engineer may determine that the work is Substantially Complete. The Engineer will notify the Contractor in writing of the Substantial Completion Date. For overruns in Contract time occurring after the date so established, the formula for liquidated damages shown above will not apply. For overruns in Contract time occurring after the Substantial Completion Date, liquidated damages shall be assessed on the basis of direct engineering and related costs assignable to the project until the actual Physical Completion Date of all the Contract Work. The Contractor shall complete the remaining Work as promptly as possible. Upon request by the Project Engineer, the Contractor shall furnish a written schedule for completing the physical Work on the Contract.

## **1-09 MEASUREMENT AND PAYMENT**

### **1-09.2 Weighing Equipment**

**(July 23, 2015 APWA GSP, Option 2)**

#### **1-09.2(1) General Requirements for Weighing Equipment**

Revise item 4 of the fifth paragraph to read:

4. Test results and scale weight records for each day's hauling operations are provided to the Engineer daily. Reporting shall utilize WSDOT form 422-027, Scaleman's Daily Report, unless the printed ticket contains the same information that is on the Scaleman's Daily Report Form. The scale operator must provide AM and/or PM tare weights for each truck on the printed ticket.

**(1/1/2016 COK GSP)**

**1-09.2(1) General Requirements for Weighing Equipment**

The second to last paragraph of Section 1-09.2(1) is supplemented with the following:

**Trucks and Tickets**

All tickets shall, at a minimum, contain the following information:

7. Ticket serial number
8. Date and hour of weighing
9. Weigher's identification

Duplicate tally tickets shall be prepared to accompany each truckload of materials delivered to the project.

It is the responsibility of the Contractor to see that tickets are given to the Inspector on the project for each truckload of material delivered. Pay quantities will be prepared on the basis of said tally tickets, delivered to the Inspector at time of delivery of materials. Tickets not collected at the time of delivery will not be honored for payment.

**(May 2, 2017 APWA GSP)**

**1-09.2(5) Measurement**

Revise the first paragraph to read:

**Scale Verification Checks** – At the Engineer's discretion, the Engineer may perform verification checks on the accuracy of each batch, hopper, or platform scale used in weighing contract items of Work.

**(October 10, 2008 APWA GSP)**

**1-09.6 Force Account**

Supplement this section with the following:

The Contracting Agency has estimated and included in the Proposal, dollar amounts for all items to be paid per force account, only to provide a common proposal for Bidders. All such dollar amounts are to become a part of Contractor's total bid. However, the Contracting Agency does not warrant expressly or by implication that the actual amount of work will correspond with those estimates. Payment will be made on the basis of the amount of work actually authorized by Engineer.

**(March 13, 2012 APWA GSP)**

**1-09.9 Payments**

Supplement this section with the following:

Lump sum item breakdowns are not required when the bid price for the lump sum item is less than \$20,000.

**(March 13, 2012 APWA GSP)**

**1-09.9 Payments**

Delete the first four paragraphs and replace them with the following:

The basis of payment will be the actual quantities of Work performed according to the Contract and as specified for payment.

The Contractor shall submit a breakdown of the cost of lump sum bid items at the Preconstruction Conference, to enable the Project Engineer to determine the Work performed on a monthly basis. A breakdown is not required for lump sum items that include a basis for incremental payments as part of the respective Specification. Absent a lump sum breakdown, the Project Engineer will make a determination based on information available. The Project Engineer's determination of the cost of work shall be final.

Progress payments for completed work and material on hand will be based upon progress estimates prepared by the Engineer. A progress estimate cutoff date will be established at the preconstruction conference.

The initial progress estimate will be made not later than 30 days after the Contractor commences the work, and successive progress estimates will be made every month thereafter until the Completion Date. Progress estimates made during progress of the work are tentative, and made only for the purpose of determining progress payments. The progress estimates are subject to change at any time prior to the calculation of the final payment.

The value of the progress estimate will be the sum of the following:

1. Unit Price Items in the Bid Form — the approximate quantity of acceptable units of work completed multiplied by the unit price.
2. Lump Sum Items in the Bid Form — based on the approved Contractor's lump sum breakdown for that item, or absent such a breakdown, based on the Engineer's determination.
3. Materials on Hand — 100 percent of invoiced cost of material delivered to Job site or other storage area approved by the Engineer.
4. Change Orders — entitlement for approved extra cost or completed extra work as determined by the Engineer.

Progress payments will be made in accordance with the progress estimate less:

1. Retainage per Section 1-09.9(1), on non FHWA-funded projects;
2. The amount of progress payments previously made; and
3. Funds withheld by the Contracting Agency for disbursement in accordance with the Contract Documents.

Progress payments for work performed shall not be evidence of acceptable performance or an admission by the Contracting Agency that any work has been satisfactorily completed. The determination of payments under the contract will be final in accordance with Section 1-05.1.

**(1/1/2016 COK GSP)**

Unless otherwise agreed to by both parties, the work period shall coincide with the calendar month. A check will be mailed or made available to the Contractor no later than thirty (30) days following the last day of the work period.

**(July 23, 2015 APWA GSP)**

**1-09.11(3) Time Limitation and Jurisdiction**

Revise this section to read:

For the convenience of the parties to the Contract it is mutually agreed by the parties that any claims or causes of action which the Contractor has against the Contracting Agency arising from the Contract shall be brought within 180 calendar days from the date of final acceptance (Section 1-05.12) of the Contract by the Contracting Agency; and it is further agreed that any such claims or causes of action shall be brought only in the Superior Court of the county where the Contracting Agency headquarters is located, provided that where an action is asserted against a county, RCW 36.01.05 shall control venue and jurisdiction. The parties understand and agree that the Contractor's failure to bring suit

within the time period provided, shall be a complete bar to any such claims or causes of action. It is further mutually agreed by the parties that when any claims or causes of action which the Contractor asserts against the Contracting Agency arising from the Contract are filed with the Contracting Agency or initiated in court, the Contractor shall permit the Contracting Agency to have timely access to any records deemed necessary by the Contracting Agency to assist in evaluating the claims or action.

### **1-09.13 CLAIMS RESOLUTION**

**(October 1, 2005 APWA GSP)**

**1-09.13(3) Claims \$250,000 or Less**

Delete this Section and replace it with the following:

The Contractor and the Contracting Agency mutually agree that those claims that total \$250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by nonbinding ADR processes, shall be resolved through litigation unless the parties mutually agree in writing to resolve the claim through binding arbitration.

**(1/1/2016 COK GSP)**

**1-09.13(3) Claims \$250,000 or Less**

Delete this Section and replace it with the following:

The Contractor and the Contracting Agency mutually agree that those claims that total \$250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by nonbinding ADR processes, provided Contracting Agency agreed to engage such ADR processes, shall be resolved through litigation unless the parties mutually agree in writing to resolve the claim through binding arbitration.

**(July 23, 2015 APWA GSP)**

**1-09.13(3)A Administration of Arbitration**

Revise the third paragraph to read:

The Contracting Agency and the Contractor mutually agree to be bound by the decision of the arbitrator, and judgment upon the award rendered by the arbitrator may be entered in the Superior Court of the county in which the Contracting Agency's headquarters is located, provided that where claims subject to arbitration are asserted against a county, RCW 36.01.05 shall control venue and jurisdiction of the Superior Court. The decision of the arbitrator and the specific basis for the decision shall be in writing. The arbitrator shall use the Contract as a basis for decisions.

### **1-10 TEMPORARY TRAFFIC CONTROL**

**(1/1/2016 COK GSP)**

#### **1-10.2 Traffic Control Management**

**1-10.2(2) Traffic Control Plans**

The first and second sentences of Section 1-10.2(2) are deleted and replaced with the following:

The Contractor shall submit a traffic control plan or plans showing a method of handling traffic including pedestrian and bicycle traffic. All construction signs, flaggers, spotters, traffic control supervisors, and other traffic control devices shall be shown on the traffic control plan(s) except for emergency situations.

#### **1-10.5 Payment**

**(January 23, 2006 APWA GSP)**

**1-10.5(1) Lump Sum Bid for Project (No Unit Items)**

Revise the pay item name to read:

Project Temporary Traffic Control	LS
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**1-10.5(3) Reinstating Unit Items with Lump Sum Traffic Control**

Costs for layout, installation, removal, and transport of project signage shall be included with the Contract lump sum price for "Project Temporary Traffic Control." This Bid item shall also constitute full compensation for all labor, tools, equipment, and materials necessary and incidental to maintaining temporary driving surface as required by Section 1-07.23(1), traffic and pedestrian control as required throughout the project duration in compliance with the MUTCD including, but not limited to, reflective signage, barricades, lights, traffic cones, and temporary pavement markings. Providing a minimum of two (2) flaggers and one (1) Traffic Control Supervisor during all periods of construction activities shall be included in the lump sum Bid item "Project Temporary Traffic Control".

No separate payment will be made for preparation of the Traffic Control or Detour Plans. All costs for developing, updating, and implementing Traffic Control or Detour Plans shall be included in "Project Temporary Traffic Control".

**END OF DIVISION 1**

**2-01 CLEARING, GRUBBING AND ROADSIDE CLEANUP**

**2-01.1 (5) Description (Trim Vegetation)**

Trim Vegetation is to be performed upon trees, shrubs and other vegetation within the project area that will not be removed, but must be trimmed to allow for installation of and/or final placement of project improvements.

**2-01.3 Construction Requirements**

*Supplement Section 2-01.3(2) with the following:*

Contractor shall clear and grub areas needed to construct the improvements on the plans or as directed by the engineer. Hedges shall be cleared and stumps grubbed to the extent feasible while protecting in place the adjacent rockery. Any remaining portions of the stumps or root systems shall be grubbed to a depth no less than 24 inches below finish grade. Glyphosate shall be applied to the exposed stumps in their entirety with a brush and covered with plastic. Allow for a minimum of two weeks prior to commencing backfilling or grading, or as directed by the Engineer.

Adjacent rockery and fences shall be protected in place. If disturbed, the rockery or fence shall be restored to its original condition at no expense to the Owner.

**2-01.3 (5) Construction Requirements (Trim Vegetation)**

Trees, shrubs and other vegetation shall be trimmed such that appropriate installation and access to points of installation of project improvements can occur. This generally includes, but is not limited to, the trimming of vegetation for forming of concrete curbing and sidewalks, trenching for buried utilities, the installation of pedestrian signage and the installation of Rapid Flashing Beacon units.

Vegetation shall be trimmed such that the permanent installation of sidewalks associated with project improvements will be ADA accessible. Vegetation shall be trimmed such that the RRFB is not obstructed by shrubs or overhead tree branches.

Vegetation shall be trimmed such that the entire tree or shrub will not die as a result of the trimming.

**2-01.4 Measurement**

Trim Vegetation to be measured per lump sum.

**2-01.5 Payment**

*Add the following to the end of the first paragraph of this section:*

Clearing and Grubbing	LS
Trim Vegetation	LS

Shall include all labor, equipment, methods, and materials necessary and incidental to complete the work shown on the plans. Includes removal and haul of boulders, tree removal including stumps, and tree trimming indicated on the plans to the extent directed by the Engineer. Tree removal will be paid under clearing and grubbing.

**2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS (\*\*\*\*\*)**

Project Site Locations and Items to be Removed

SCHEDULE A (19NSP01) - RAISED SIDEWALK ON CORNER OF NE 134TH ST AT 87TH AVE NE:

- N/A

SCHEDULE B (19NSP02) - RAPID FLASHING BEACON ON NE 132ND ST AT 129TH AVE NE:

- N/A

SCHEDULE C (19NSP03) - TRAFFIC MEDIAN ISLAND ON SLATER AVE NE AT NE 119TH ST:

- N/A

SCHEDULE D (19NSP04) - INTERSECTION IMPROVEMENT ON NE 87TH ST AT 114TH AVE NE:

- N/A

SCHEDULE E (19NSP05) - WALKWAY ON NE 120TH ST BETWEEN 93RD PL NE AND 96TH AVE NE:

- N/A

SCHEDULE F (19NSP06) - CROSSWALK ON LAKEVIEW DRIVE NORTH OF NE 64TH ST:

- REMOVE & RESET – Sign light near walkway on western side of crosswalk.

SCHEDULE G (19NSP07) - RAPID FLASHING BEACON ON 108TH AVE AT NE 46TH ST:

- REMOVE & RESET - Fence on Eastern side behind ADA level landing and ramp

**2-02.3(3) Removal of Pavement, Sidewalks, Curbs, and Gutters (\*\*\*\*)**

Item 1 in Section 2-02.3(3) is revised to read:

1. Haul broken-up pieces to off-project site, to become property of contractor.

Section 2-02.3(3) is supplemented with the following:

**Saw Cutting**

All full-depth saw cuts shall be continuous, and shall be made with saws specifically equipped for the purpose. No skip cutting or jack hammering will be allowed unless specifically approved otherwise in writing by the Engineer. The location of all pavement cuts shall be where shown in the Plans or as approved by the Engineer in the field before cutting commences.

The approximate thickness of the asphalt concrete pavement is variable between 4 and 8 inches.

**2-02.4 Measurement**

Section 2-02.4 is supplemented with the following:

Saw cutting existing pavement will be measured by the linear foot along the surface being cut.

Removing curb and gutter will be measured by the linear foot along the line and slope of the existing curb and gutter prior to removal

Removing sidewalk will be measured by the square yard of sidewalk removed prior to removal.

Removal of asphalt concrete pavement will be measured by the square yard prior to removal.

Removal of existing pipe will be measured by the linear foot along the line and slope of the pipe prior to removal. Any existing pipe removed within the limits of Roadway excavation or Structure excavation will not be measured and will be included in the pay item for Roadway excavation or Structure excavation.

Removal of existing drainage Structures will be measured per each for each drainage Structure removed.

**2-02.5 Payment**

Add the following to the end of the first paragraph of this section:

Removal of Structures and Obstructions	LS
--	----

Shall include all labor, equipment, methods, and materials necessary and incidental to complete the work for removal of pavement, landscape vegetation, sidewalk, curbs and gutters per 2-02.3(3). Including hauling of material underneath whether soil, concrete, and asphalt shall be incidental to this bid item. Any backfill and compaction of the resulting voids will be incidental to this bid item.

Saw Cutting	LF
-------------	----

The unit Contract price per linear foot for "Saw Cutting" shall be full pay for all costs necessary to complete the Work as specified regardless of the depth encountered or the material to be cut, including collection, removal, and disposal of slurry.

Removing Cement Conc. Sidewalk	SY
--------------------------------	----

Removing Cement Pedestrian Curb	LF
---------------------------------	----

Removing Cement Conc. Curb and Gutter	LF
---------------------------------------	----

Removing Asphalt Conc. Pavement	SY
---------------------------------	----

The unit Contract price per square yard for "Removing Asphalt Conc. Pavement" shall be full pay for performing the Work as specified, including disposal.

Removing Existing Pipe	LF
------------------------	----

The unit Contract price per linear foot for "Removing Existing Pipe" shall be full pay for performing the Work as specified, including disposal.

Removing Existing Drainage Structure	Per Each
--------------------------------------	----------

The unit Contract price per each for "Removing Existing Drainage Structure" shall be full pay to perform the Work as specified, including disposal.

**END OF DIVISION 2**

**5-03 STAMPED HOT MIX ASPHALT (\*\*\*\*\*)**

**5-03.1 Description**

Stamped Hot Mix Asphalt is to be constructed as a decorative fill inside a median island area. Asphalt shall be placed, compacted, stamped and finished in accordance with manufacturers recommendations and requirements and per all notes and specifications on the contract plans.

**5-03.2 Materials**

Stamped Hot Mix Asphalt to be constructed with materials per the Median Island detail located in the contract plans. Asphalt to be HMA Class 1/2 In PG. 64-22.

Modified polymer coating, or approved equal, to be of a "red brick" color that matches the color of a typical brick color. Sample or other documentation shall be submitted to the City to approve the color and pattern.

**5-03.3 Construction Requirements**

The installation of the Stamped Hot Mix Asphalt is to be conducted in accordance with placement, compaction and other relevant requirements as described in 5-04.3.

Hot Mix Asphalt shall be placed in two lifts of approximately equal nature. Both lifts shall be compacted to satisfaction of requirements found in 5-04.3.

The top lift of Hot Mix Asphalt shall be re-heated and stamped with a template in such a way that a brick-work, cobblestone final surface is generated. The final brick-work, cobblestone surface shall receive an appropriate amount of modified polymer coating so that the final surface is of a "red brick" color.

**5-03.4 Measurement**

Stamped Hot Mix Asphalt to be measured per square yard.

**5-03.5 Payment**

Stamped HMA	Per Square Yard
-------------	-----------------

**5-04 HOT MIX ASPHALT**

**5-04.1 Description (\*\*\*\*\*)**

*Section 5-04.1 is supplemented with the following:*

Contractor shall provide Asphalt Walk per detail on sheet 5 of plans.

**5-04.2 Materials (\*\*\*\*\*)**

*Section 5-04.2 is supplemented with the following:*

HMA shall be Class 1/2" PG 64-22

**5-04.4 Measurement (\*\*\*\*\*)**

*This section is deleted and replaced in its entirety with the following:*

The bid items “HMA Class G, PG 64-22 for Asphalt Walk” and “HMA Class 1/2-inch, PG 64-22” will be measured by the ton in accordance with Section 1-09.2, with no deduction being made for the weight of asphalt binder, mineral filler, or any other component of the mixture. If the Contractor elects to remove and replace mix as allowed by Section 5-04.3(11), the material removed will not be measured.

**5-04.5 Payment**

*Add the following to the end of the first paragraph of this section:*

HMA Class G, PG 64-22 for Asphalt Walk	TN
HMA Class 1/2-inch, PG 64-22	TN
HMA Transition	EA

The unit contract price for “HMA Class G, PG 64-22 for Asphalt Walk”, including all incidental work, shall be full compensation for all labor, materials, tools, and equipment for surface preparation, place and compact material, tack coat, adjust utility castings, and any other work necessary for a complete installation meeting the requirements of the detail on sheet 5 of the plans.

The unit contract price for “HMA Class 1/2-inch, PG 64-22” including all incidental work, shall be full compensation for all costs incurred to carry out the requirements of Standard Specification Section 5-04 including but not limited to labor, tools, equipment, materials, surface preparation, joint sealing, tack coat, paving asphalt, compaction, and all other associated costs.

HMA Transition will be composed of a 5' x 5' x 6" taper ramp with a 25 SF to 50 SF landing that is 3" compacted thickness. Up to 2 tons of HMA Class ½ inch, PG 64-22 included in your HMA Transition per each unit bid.

**END OF DIVISION 5**

**7-04 PLUG EXISTING PIPE**

**7-04.1 Description**

Abandoned existing 12" concrete pipe to be plugged to prevent stormwater from saturating surrounding subgrade. Work to comply with Standard Specification 7-08.3(4)

**7-04.2 Materials**

Commercial concrete to meet the requirements of Specification 6-02.3(2)B.

**7-04.3 Construction Requirements**

Existing 12" concrete pipe to be plugged per Specification 7-08.3(4) with cement concrete for a distance of 2 diameters with commercial concrete.

**7-04.4 Measurement**

Plug Existing Pipe is to be measured per each.

**7-04.5 Payment**

Plug Existing Pipe	Per Each
--------------------	----------

**END OF DIVISION 7**

**8-01 MISCELLANEOUS CONSTRUCTION**

**8-01.1 Description (COK GSP)**

Section 8-01.1 is supplemented with the following:

Implementation of appropriate TESC BMP's at the appropriate construction phases is very important to prevent siltation of the subgrade, aggregate courses, and final permeable pavement. The Contractor shall install and maintain all temporary and permanent erosion control measures and Best Management Practices (BMPs) in accordance with the Contract Documents, Standard Specifications, Permit Conditions, the Contractors "Stormwater Pollution Prevention Plan" (SWPPP) and as directed by the Engineer prior to clearing, grubbing, or grading or as necessary, as clearing and grading progress. Such measures shall include, but are not necessarily limited to:

- Commercial construction entrances per CK-E.02.
- Quarry Spall outfall pads for temporary erosion control
- Rock, Wattle, Compost sock check dams
- Straw mulch, netting and tackifier
- Concrete wash
- Baker tanks and/or Settling ponds
- Stabilized construction entrance / exit
- Inlet protection on existing and proposed drainage structures
- Reinforced silt fencing
- Plastic Covering
- Temporary pipe slope drains
- Temporary HMA Curb
- Disposal of sediments and materials
- TESC seeding
- Maintenance of BMPs including in the event of emergencies and as weather and field conditions dictate; and also including installation of additional BMPs which may become required as field and weather conditions evolve.
- Street sweeping and Cleaning

- ESC Lead per 8-01 of the Standard Specifications
- All materials, tools and equipment necessary to meet these requirements

The Contractor shall provide erosion control as required for all stockpiled materials at no cost to the Contracting Agency. The Engineer, in the event of an emergency, and as weather and field conditions dictate, may require additional erosion controls and BMPs.

### **Site Specific BMPs and SWPPP Plan**

Temporary Erosion / Water Pollution Control notes and performance criteria are noted in the Contract Documents. The Contractor shall submit his or her own Storm Water Pollution Prevention Plan (SWPPP) to the Contracting Agency for review and approval prior to the commencement of clearing, grubbing, or grading activities.

Water quality testing and discharge volume reporting required by the project permits shall be performed by the Contractor and is a condition of approval of the SWPPP. The reporting data shall be provided to the Engineer as soon as practical, at regular intervals and prior to reporting deadlines established in the permits. The Contractor will provide a copy of the reporting information within 24 hours of a request to do so by the Engineer. All costs to perform these reporting requirements are to be included in the lump sum contract price for "Erosion/Water Pollution Control".

### **8-01.3 Construction Requirements (COK GSP)**

Section 8-01.3 is supplemented with the following:

The Contractor shall bear sole responsibility for damage to completed portions of the project and to property located off the project caused by erosion, siltation, runoff, or other related items during the construction of the project. The Contractor shall also bear sole responsibility for any pollution of rivers, streams, groundwater, or other water that may occur as a result of construction operations.

Any area not covered with established, stable vegetation where no further work is anticipated for a period of 15 days, shall be immediately stabilized with the approved erosion and sedimentation control methods (e.g., seeding and mulching, straw). Where seeding for temporary erosion control is required, fast germinating grasses shall be applied at an appropriate rate (e.g., perennial rye applied at approximately 80 pounds per acre).

At no time shall more than 1 foot of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned at a time designated by the Contracting Agency Construction Inspector.

The cleaning operation shall not flush sediment-laden water into the downstream system. The cleaning shall be conducted using an approved vacuum truck capable of jet rodding the lines. The collection and disposal of the sediment shall be the responsibility of the Contractor at no cost to the Contracting Agency.

#### ***8-01.3(1) General***

#### ***8-01.3(1)A Submittals (COK GSP)***

Section 8-01.3(1)A is supplement with the following:

### **Stormwater Pollution Prevention Plan**

The Contractor shall prepare a Stormwater Pollution Prevention Plan (SWPPP) in accordance with Department of Ecology requirements.

The Contractor shall incorporate the SWPPP implementation schedule into the Contractor's progress schedule. The SWPPP and implementation schedule shall be submitted in accordance with Sections 1-05.3 and 1-08.3.

In addition, the SWPPP shall outline the procedures to be used to prevent high pH stormwater. The plan shall include how the pH of the water will be maintained between pH 6.5 and pH 8.5 prior to being discharged from the project or entering surface waters. Prior to beginning any concrete or grinding work, the Contractor shall submit the plan, for the Engineer's review and approval. The Ecology template can be found at the following link:

<http://www.ecy.wa.gov/programs/wq/stormwater/construction/>

The SWPPP is considered a "living" document that shall be revised to account for additional erosion control/pollution prevention BMPs as they become necessary and are implemented in the field during project construction. A copy of the most current SWPPP shall remain on-site at all times and an additional copy shall be forwarded to the Engineer. At the Contractor's preference, revisions to the SWPPP may be forwarded to the Engineer rather than submitting a complete document. Revisions to the SWPPP may be kept on-site in a file along with the original SWPPP document.

**8-01.3(1)B Erosion and Sediment Control (ESC) Lead (COK GSP)**

Supplement this the second paragraph with the following:

3. Inspecting all on-site erosion and sediment control BMPs at least once every five working days and within 24 hours of every runoff event. A SWPPP Inspection report or form shall be prepared for each inspection and shall be included in the SWPPP file. A copy of each SWPPP Inspection report or form shall be submitted to the Engineer no later than the end of the next working day following the inspection. The report or form shall include, but not be limited to the following:
  - a. When, where, and how BMPs were installed, maintained, modified, and removed.
  - b. Observations of BMP effectiveness and proper placement.
  - c. Recommendations for improving future BMP performance with upgraded or replacement BMPs when inspections reveal SWPPP inadequacies.
  - d. Approximate amount of precipitation since last inspection and when last inspection was performed.
4. Updating and maintaining a SWPPP file on site that includes, but is not limited to the following:
  - a. SWPPP Inspection Reports or Forms.
  - b. SWPPP narrative.
  - c. Other applicable permits.

**8-01.3(1)C Water Management (COK GSP)**

Section 8-01.3(1)C is supplemented with the following:

The Contractor will be responsible for meeting the SWPPP requirements.

The Bid Item "Erosion/Water Pollution Control" shall include the cost of providing temporary detention/retention facilities as illustrated in the Contractor's SWPPP Plan as well as modifications, additions and removals of such facility as dictated by the Contractor's sequence of work and may include, but are not limited to:

1. Temporary detention/retention facilities such as ponds, Baker Tanks, or other facilities.
2. If any permanent stormwater facilities are utilized, such as the detention vault, for SWPPP compliance, the Contractor shall remove accumulated sediment and clean the facility prior to final acceptance at no additional cost to the Contracting Agency.
3. Temporary facilities such as wheel wash stations or similar.
4. Temporary construction entrances.

No additional compensation shall be made for construction, alteration, removal, maintenance, and any additional requirements necessary for "Erosion/Water Pollution Control". No additional compensation shall

be made for conflicts with existing or proposed improvements or construction sequencing of work when facilities are utilized to meet permit requirements.

**8-01.4 Measurement (\*\*\*\*)**

Section 8-01.4 is supplemented with the following:

Measurement for Erosion/Water Pollution Control shall be Lump Sum.

**8-01.5 Payment (\*\*\*\*)**

Erosion/Water Pollution Control	Per Lump Sum
---------------------------------	--------------

The lump sum contract price for “Erosion/Water Pollution Control” shall include the cost of providing temporary detention/retention facilities as illustrated in the Contractor’s SWPPP Plan as well as modifications, additions and removals of such facility as dictated by the Contractor’s sequence of work and may include, but are not limited to:

1. Preparation of SWPPP.
2. Temporary detention/retention facilities such as ponds, Baker Tanks, or other facilities.
3. If any permanent stormwater facilities are utilized, such as the detention vault, for SWPPP compliance, the Contractor shall remove accumulated sediment and clean the facility prior to final acceptance at no additional cost to the Contracting Agency.
4. Temporary facilities such as wheel wash stations or similar.
5. Temporary construction entrances.

No additional compensation shall be made for construction, alteration, removal, maintenance, and any additional requirements necessary for “Erosion/Water Pollution Control”. No additional compensation shall be made for conflicts with existing or proposed improvements or construction sequencing of work when facilities are utilized to meet permit requirements.

**8-04 CURBS, GUTTERS, AND SPILLWAYS**

**8-04.3 Construction Requirements**

(\*\*\*\*)

**8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways**

Supplement Section 8-04.3 with the following:

Cement concrete traffic curb and gutter and pedestrian curb shall be constructed with air-entrained Class 4000 concrete in accordance with City of Kirkland Standard Details. The Gutter pan slope shall match the adjacent paved surface.

(\*\*\*\*\*)

**8-04.4 Measurement**

Add the following to the end of the first paragraph of this section:

Measurement of “Cement Concrete Curb and Gutter, Type A” and “Cement Concrete Pedestrian Curb shall include crushed rock base course as required by City of Kirkland Pre-approved Plan CK-R.17 and CK-R.17A, respectively. Adjustments of water valve boxes to grade shall also be included in the measurement of “Cement Concrete Curb and Gutter, Type A”. No separate measurement or payment shall be made for adjustment of water valve boxes to grade.

(\*\*\*\*\*)

**8-04.5 Payment**

*Add the following to the end of the first paragraph of this section:*

Cement Concrete Curb and Gutter, Type A	Per Linear Foot
Cement Concrete Extruded Curb	Per Linear Foot
Cement Concrete Pedestrian Curb	Per Linear Foot
Mountable Median Curb	Per Linear Foot

The per linear foot price bid for “Cement Concrete Curb and Gutter, Type A” and “Cement Concrete Vertical Curb” shall be full compensation for all labor, materials, tools, and equipment necessary and incidental to the complete installation of the full vertical section of the concrete curb and gutter and the concrete vertical curb per City of Kirkland Pre-approved Plan CK-R.17 and CK-R.17C, respectively, and the contract plans including all subgrade preparation, cement concrete, crushed rock base course, adjustment of water valve boxes to grade, testing and related materials.

(\*\*\*\*\*)

*Add the following new Section:*

**8-05 MISCLEANEOUS WORK**

This work shall consist of providing miscellaneous construction work and documentation as described herein, including the identification and resolution of utility conflicts not identified in the Plans between proposed improvements and existing utilities.

**8-05.3 Potholing (\*\*\*\*\*)**

Potholing has been included in the Proposal for the use in the determination of the location of existing utilities in advance of the Contractor's operations. The Engineer shall approve all potholing requests from the Contractor prior to potholing. Additionally, the Contractor shall provide potholes at Engineer's request. The Contractor shall review the utility markings in the field after construction staking has been provided but prior to starting of installation of utilities.

When potholing is performed the Contractor shall:

1. Receive prior approval from the Engineer for the location of the proposed pothole.

2. Contact on-call utility services prior to performing potholes.
3. Excavate down to the existing utility.
4. Record the outside diameter, material, horizontal (station and offset) and vertical location (elevation) of the found utility.
5. Provide the Engineer information showing the location of the existing utility and location of the proposed utility.

Should a conflict exist the Contractor shall notify the Engineer and Northshore Utility District as soon as possible. A revised design will be provided within seven (7) working days upon the receipt of the written notification of a utility conflict.

To be considered for payment, potholing must be done prior to starting trenching or excavation work.

**8-05.4 Measurement (\*\*\*\*\*)**

Add the following new section:

Potholing	Per Each
-----------	----------

**8-05.5 Payment (\*\*\*\*\*)**

The unit Contract price for “Potholing” per each shall be full compensation for all labor, tools, equipment, and materials necessary or incidental to expose the locations of existing utilities, record vertical and horizontal locations, record the size, material and depth of the existing utility, backfill, and compact excavated areas per City Standard Details and as described herein. This unit price shall also include the cost for rescheduling work as required to allow the City time (up to seven working days) to issue any design modifications as may be required.

For the purposes of bidding equality, the Contracting Agency has furnished an estimated quantity for Potholing. Actual payment for this work will be made only for the actual amount of work performed as authorized and deemed necessary by the Engineer and may differ greatly from the estimated amount provided.

**8-09 RAISED PAVEMENT MARKERS – TYPE 2 – YELLOW**

**8-09.3 Construction Requirements**

***8-09.3(1) Preliminary Spotting***

Section 8-09.3(1) is supplemented with the following:

Pavement markers shall be located per Contract Plans.

**8-09.4 Measurement**

Section 8-09.4 is replaced with the following:

Measurement of markers will be measured per each.

### 8-09.5 Payment

Section 8-09.5 is replaced with the following:

Raised Pavement Marker Type 2	Per Each
-------------------------------	----------

### 8-10 GUIDE POSTS

#### 8-10.1 Description

Section 8-10.1 is supplemented with the following:

(\*\*\*\*\*)

This Work shall consist of furnishing and installing tubular markers at the locations indicated in the Plans or where designated by the Engineer.

#### 8-10.2 Materials

Section 8-10.2 is supplemented with the following:

(\*\*\*\*\*)

Tubular markers shall be as follows:

City Post® with “Easy Spin” installation as manufactured by Pexco, or approved equivalent.

Diameter: 3 inches, nominal  
Height: 48 inches  
Color: White  
Reflective Sheeting: Abrasion Resistant AR 1000  
Anchor Cup: 4-inch aluminum, embedded  
Options: Anchor cup plug; tightening wrench  
Pexco LLD  
3110 70<sup>th</sup> Ave. E  
Tacoma, WA 98424  
(253) 922-4502  
[www.pexco.com](http://www.pexco.com)

The above referenced product is considered the basis of design.

#### 8-10.3 Construction Requirements

Section 8-10.3 is supplemented with the following:

(\*\*\*\*\*)

The Contractor shall install the tubular markers in accordance with the manufacturer’s Specifications and Installation Guide and Recommendations.

#### 8-10.4 Measurement

Section 8-10.4 is supplemented with the following:

(\*\*\*\*\*)

Tubular markers will be measured by the unit for each tubular marker furnished and installed.

### **8-10.5 Payment**

Section 8-10.5 is supplemented with the following:

(\*\*\*\*)

“Tubular Markers (white with reflective tape) Mounted to Pavement Surface”, per each.

The unit Contract price per each for “Tubular Marker shall be full pay for all Work as specified to furnish and install tubular markers, including coring or surface mounting.

(\*\*\*\*)

*Add the following new Section:*

### **8-14 CEMENT CONCRETE SIDEWALKS**

(\*\*\*\*\*)

#### **8-14.3 Construction Requirements**

*Replace this Section with the following:*

Cement concrete sidewalk and curb ramps shall be constructed with Class 4000 Portland Cement Concrete per City of Kirkland Plan No. CK-R.23 for sidewalk construction details.

(\*\*\*\*\*)

#### **8-14.3(3) Placing and Finishing Concrete**

*The fourth paragraph of Section 8-14.3(3) shall be replaced with the following:*

Sidewalk ramps shall be of the type specified in the Plans. The detectable warning pattern shall have the truncated dome shape shown in the Standard Plans and shall be installed by adding a manufactured material before the concrete has cured. Acceptable manufacturers' products are shown on the Qualified Products List.

(\*\*\*\*\*)

*Add the following new Section:*

#### **8-14.3(6) Curb Ramps**

Curb ramps on this project shall be constructed in accordance with WSDOT standard plans or as may otherwise specified on the Contract Plans.

Compliance with ADA Standards is taken very serious and minor modifications to the grades and dimensions shown on the Plans may be required to meet current standards. Therefore, prior to pouring concrete at the curb ramp locations, the Contractor shall have each ramp inspected and receive written approval from the on-site inspector that the forms are set in compliance with ADA Standards. Ramps poured without written approval which do not meet the current ADA standards shall be removed and replaced at the Contractors expense, regardless of whether or not they conform to the dimensions shown on the Plans.

Per the Standard Specifications and standard plan, detectable warning surfaces shall be furnished and installed on each curb ramp.

**8-14.4 Measurement (\*\*\*\*\*)**

*Section 8-14.4 is supplemented with the following:*

“Cement Conc. Sidewalk” shall be measured by square yard of horizontal concrete surface area of sidewalks as shown in the Project Plans or as-built if field adjustments to the contract limits are approved by the Engineer. All sawcutting, excavation, backfill, and compaction; crushed surfacing top course base; forming and finishing; and other ancillary work related to the complete installation of the sidewalk are included in the measurement and incidental to this item.

“Cement Conc. Curb Ramp” shall be measured per each curb ramp as shown in the Project Plans or as-built if field adjustments to the contract limits are approved by the Engineer. All sawcutting, excavation, backfill, and compaction; crushed surfacing top course base; forming and finishing; and other ancillary work related to the complete installation of the are included in the measurement and incidental to this item.

Supply and installation of detectable warning surface(s) shall be incidental to the completed curb ramp. No separate measurement or payment shall be made for detectable warning surfaces.

**8-14.5 Payment (\*\*\*\*\*)**

*Section 8-14.5 is supplemented with the following:*

Cement Conc. Sidewalk	Per Square Yard
Cement Conc. Curb Ramp - Parallel	Per Each
Cement Conc. Curb Ramp - Perpendicular	Per Each
Cement Conc. Curb Ramp – Combination	Per Each

The Contract Bid price for “Cement Conc. Sidewalk”, per square yard, shall be full compensation for all labor, tools, materials, and equipment necessary to provide forms; procure and pour concrete; and perform finish work and testing for all concrete at locations and to the lines and grades shown on the Plans The cost for all incidental items of work, including but not limited to providing expansion joints, joint filler, excavation and base preparation, finishing, and providing white polyethylene sheeting for curing shall be incidental and included in the unit contract price. No additional compensation will be made.

The Contract Bid price for “Cement Conc. Curb Ramp”, per each, shall be full compensation for all labor, tools, materials, and equipment necessary to provide forms; procure and pour concrete; and perform finish work and testing for all concrete at locations and to the lines and grades shown on the Plans The cost for all incidental items of work, including but not limited to providing detectable warning surface, expansion joints, joint filler, excavation and base preparation, finishing, and providing white polyethylene sheeting for curing shall be incidental and included in the unit contract price. No additional compensation will be made.

**8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT TRANSPORTATION SYSTEMS**

**8-20.1 Description**

(\*\*\*\*\*)

*The first paragraph of this section shall be supplemented with the following:*

The electrical work includes furnishing, installing and field-testing all materials necessary to provide complete and operational Solar and/or AC Powered Rapid Flashing Beacon (RFB) systems and

Illumination systems that include but are not limited to: luminaires, luminaire poles, RFB poles and bases, foundations, controller cabinets, service cabinets, conduits, wiring, junction boxes and other incidental materials as may be required to complete construction of above listed systems and comply with the Plans and these Specifications.

The work shall consist of, but not necessarily be limited to:

- Installation of Solar or AC Powered Rectangular Rapid Flashing Beacon (RRFB) Assemblies

All work shall be performed as shown in the Plans in accordance with applicable Standard Specifications and Standard Plans and the following Special Provisions. Unless otherwise noted, the location poles, cabinets, conduits, junction boxes and appurtenances shown in the Plans are approximate; and the exact location will be established by the Engineer in the field.

When splicing into power a weather proof splice kit is required consisting of: C-Tap, Mastic (3M2000), and 3M Super88BlackElectrical Tape

The RRFB Assembly EA includes all crosswalk signage, the illumination sign, junction box(es) and all conduit connection to power supply. See complete Component List below:

Controller and Service Cabinets finish shall be grey. Mint green is not an acceptable color.

ID #	Component	Item	# needed
<b>FOUNDATION</b>			
1	Bolt Cage	Pelco AP-1095-GLV	1 per pole
2	Foundation - WSDOT Plans: J-21.10-04 (non-curb mount *) J-20.11-02 (curb mount *)	Per Design	Per Design
<b>STRUCTURE</b>			
3	Pole Base with Collar	Pelco PB-5334 + PB-5325 (base + collar)	1 per pole
4	Pole (16' length)	Pelco - Spun Alum. Pole, Sch 40, PB-5100	1 per ea
5	J-Box w/conduits	Type 1 J-Box	2 (one each side for future power conv. if solar install)

ID #	Component	Item	# needed
<b>RRFB COMPONENTS</b>			
6	Electronics Cabinet **	Slimline 100 Cabinet	1 per unit
7	Electronics Cabinet Mount	Eltec Pole Mount	1 per cabinet
8	Flashing Light Heads (4 lights per unit) * verification lights case by case - check with PW-Traffic Eng.	Eltec RRFB (Whelen light heads)	1 unit per pole
9	Flashing Light Heads Enclosure	Eltec RRFB Pole Mount Light Enclosure	1 unit per pole
10	Flasher	Eltec FS-2B Flasher	1 per unit
11	Photocel	Silonex TO-5 Photocell	1 per unit
12	Timer	Crouzet Timer PU2R4	1 per unit
13	Toggle Switch (for putting system into flash mode manually)	(sized for application)	1 per unit
<b>POWER – SELECT DC (SOLAR) or AC (HARDWIRE)</b>			
<b>DC (SOLAR) POWER</b>			
14.DC	Solar Power Panel	Kyocera Solar Panel	1 per unit
15.DC	Solar Panel Mount (Pole Top Style)	Eltec Top Pole Mount	1 per unit
16.DC	Battery	UPG - UB121000 Battery	1 per unit
17.DC	Charge Controller	ProStar Charge Controller (PSA-15 or PSA-30 depending on No. of solar panels)	1 per unit
18.DC	Power cable for AC systems	Belden Part No. 601765 Cable	Varies depending on site distances
<b>AC (HARDWIRE) POWER</b>			
14.AC	Power Source (Determine Source for Project)	Milbank 12" Wide Metered Slim Line Pedestal	1 Service
15.AC	Breaker for RRFB Cabinet (10A)	(Per Designer spec)	1 per System
16.AC	Power Supply	TDK-Lambda L550-12	1 per System
17.AC	Surge Protector	Emerson/Edco SPA-100T	1 per System
18.AC	Power cable for AC systems	Opticon Model 138 Detector Cable	Varies depending on site
<b>PEDESTRIAN PUSH-BUTTONS</b>			
19	Pedestrian Push-Button Station ***	Polara Model XAVE2-LED Push Button Station	1 per unit
20	Pedestrian Push-Button Station Controller	Polara XAVCU2-DC Control Unit for XAVE2-LED Push Button Station	1 per unit

ID #	Component	Item	# needed
21	Remote Pedestrian Push-Button Mount Electrical Connection	8 wire multi-conductor cables/18 AWG Belden 27601A multi-conductor-600V (For remote push button)	Varies depending on site distances
22	Wireless Communication System (if no conduits being installed)	Banner SureCross DX80 gateway and nodes, 900 MHz	Varies (if 2 poles, gateway and node, if 3 poles, add extra node)
<b>SIGNAGE</b>			
23	Pedestrian Crossing Sign (Left Facing Icons)	Pedestrian Crossing Sign (Per MUTCD designation: W11-2 or S1-1) Check with PW-Traffic Eng. for crosswalk type.	2 per pole
24	Crossing Arrow Sign (Left)	Arrow Sign (Per MUTCD designation: W16-7pL) Check with PW-Traffic Eng. for crosswalk type)	2 per pole
25	Crossing Arrow Sign (Right)	Arrow Sign (Per MUTCD designation: W16-7pR) Check with PW-Traffic Eng. for crosswalk type)	2 per pole
26	Advance Pedestrian Crossing Sign (Left Facing Icons)	Pedestrian Crossing Sign (Per MUTCD designation: W11-2 or S1-1) Check with PW-Traffic Eng. for crosswalk type.	1 per pole
27	Advanced Pedestrian Crossing Sign	"AHEAD" Sign (W16-9P)	1 per pole

**8-20.1(1) Regulations and Code**

Supplement this Section with the following:

(\*\*\*\*\*)

Prior to start of Work, all necessary licenses, permits, and approvals shall be obtained. The Contractor shall comply with all laws, ordinances, rules, orders, and regulations relating to the performance of the Work, the protection of adjacent property, and the maintenance of all other facilities. The Contractor will be required to comply with all the provisions of these instruments and shall save and hold the Contracting Agency harmless from any damage that may be incurred as a result of the Contractor's failure to comply with all the terms of these permits.

All materials and methods required under this section, unless otherwise superseded herein, shall conform to the 2020 edition of the Washington State Department of Transportation Standard Specifications for Road, Bridge, and Municipal Construction (herein referred to as Standard Specifications), to all current amendments to the Standard Specifications, to the latest edition of the State of Washington Standard Plans for Road, Bridge, and Municipal Construction (herein referred to as the Standard Plans), to the State of Washington Sign Fabrication Manual, to the City of Kirkland Standard Specifications and Details, to the latest edition of the National Electric Code (NEC), and to the current edition of the Manual on Uniform Traffic Control Devices (MUTCD) as adopted by the State of Washington. All street name signs shall comply with the 2009 edition of the Manual on Uniform Traffic Control Devices (MUTCD).

**8-20.1(2) Industry Codes and Standards**  
Supplement this Section with the following:

(\*\*\*\*\*)

National Electrical Safety Code (NESC),  
PO Box 1331, 445 Hoes Lane,  
Piscataway, New Jersey.

**8-20.3 Construction Requirements**

**8-20.3(1) General**

The following paragraph shall be added to the end of this section:

(\*\*\*\*\*)

The item "RRFB Assembly" and "Radar Speed Sign Assembly" shall be provided and installed as complete and operational assemblies including but not limited to any required excavation and backfill, wiring and conduit, electrical grounding, concrete foundation, support pole and pole base, signage, flashers/lights, solar panel and battery backup, and all necessary anchors and fasteners in accordance with the details and special provisions of the contract documents and all applicable Standard Specifications.

**8-20.3(5)E1 Open Trenching**

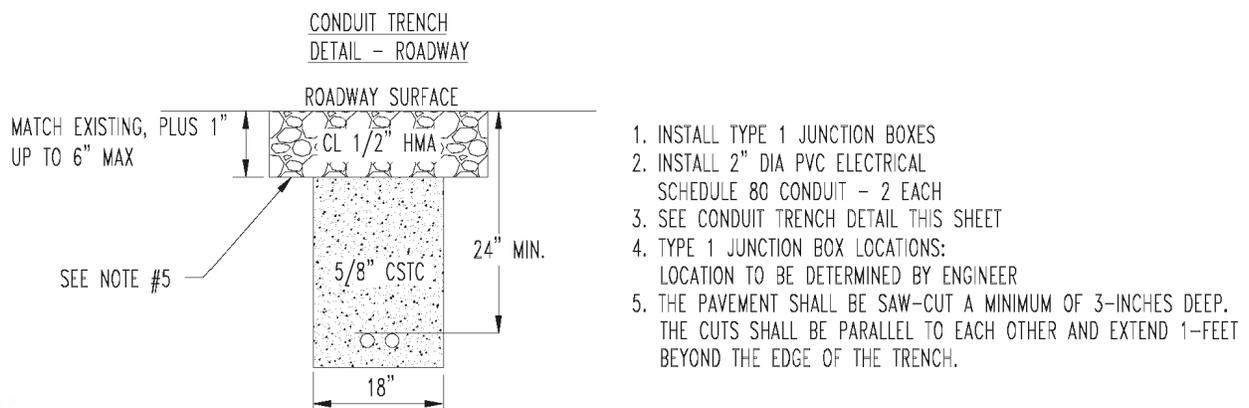
This section of the Special Provisions is revised as follows:

(\*\*\*\*\*)

Refer to WSDOT 8-20.3(5)E1 Open Trenching

Section 8-20.3(5) is supplemented with the following:

See below for Conduit Trench backfill detail:



**8-20.3(4) Foundations**

Section 8-20.3(4) is supplemented with the following:

The foundation for Type PS Pedestrian Signal Post (Type D Mounting) shall conform to WSDOT Standard Plan J-20.11 and IS-13.

The foundation for Metered Pedestal shall conform to WSDOT Standard Plan J-10.20-02 and IS-13.

Foundations installed in sidewalk locations shall be installed in a single pour to the bottom of the sidewalk. The sidewalk shall be installed over the foundation in a separate pour.

**8-20.3(5) Conduit**

Section 8-20.3(5) is supplemented with the following:

All conduit shall be Schedule 80 rigid PVC.

Each empty conduit run shall contain a 200-pound breaking strength polyolefin pull cord, which shall be tied off at both ends.

All conduit installed underground shall have polyethylene Underground Hazard Marking Tape, 6 inches wide, red legend "Caution-Electric Line Buried Below," placed approximately 12 inches above the conduit.

**8-20.3(6) Junction Boxes, Cable Vaults, and Pull Boxes**

Section 8-20.3(6) is supplemented with the following:

(\*\*\*\*\*)

***New Junction Box***

Where shown on the plans, place new junction boxes per WSDOT J-40.30-04 with "TS" Lettering on Lid with bead weld lettering. All junction box lids shall be non-slip lids meeting the requirements of the Americans with Disabilities Act. Junction boxes shall be located and oriented as shown on the Plans but may be adjusted in the field by the Engineer to better fit existing conditions. No junction boxes shall be located in pedestrian ramp areas.

**8-20.4 Measurement**

*This section shall be supplemented as follows:*

"RRFB Assembly" shall be measured per each

"Conduit Trench" shall be measured per linear feet

"Riser Conduit" shall be measured per Lump Sum

**8-20.5 Payment**

*This section shall be supplemented as follows:*

(\*\*\*\*\*)

Curb Mounted RRFB Assembly (AC)	EA
Rise Conduit	LS
Conduit Trench	LF

"Curb Mounted RRFB Assembly (AC)" shall be full pay for the furnishing, construction and testing of the complete electrical system, as shown in the Plans and herein specified, excavation, backfilling, installation and removal of concrete foundations, installation of RRFB poles, RRFB assemblies (including RRFB APS style pedestrian push button, RRFB controller cabinet, solar panels/battery, RRFB light bars, signs, etc.) per manufacturer's recommendation and/or as directed by the Engineer, and testing of the RRFB assembly,

installation of metered 60A service with manual block bypass (Milbank Slimline Series or approved equal, see Appendix A) with foundation, junction boxes, conduit, wiring, restoring facilities destroyed or damaged during construction, salvaging existing materials, testing, making all required tests, coordinating with local power company, and obtaining all required permits. All additional labor and materials, not shown in the Plans or called for herein and which are required to complete the electrical system, shall be included in the above contract price.

All components of the RRFB system shall be new. No salvaged or refurbished equipment will be allowed.

“Conduit Trench” shall include all labor, equipment, methods, and materials necessary to install the Radar Speed Sign Assembly or RRFB Assembly in accordance with manufacturer’s recommendations and all applicable details and special provisions of the contract documents and the Standard Specifications. The per lineal foot measurement for “Conduit Trench” will be measured based on the lineal feet of trench installed. No additional payment will be made for locations where two conduits are placed in the same trench. All work to complete the installation of the Conduit Trench per 8-20.3(5)E1 Open Trenching detail and including but not limited to the restoration of the road, sidewalk, curb, sawcutting, trench backfill and compaction, extra depth, including excavation, backfill and compaction, required to clear existing buried utilities or other obstacles, steel sheeting/plating for covering excavations as necessary, Crushed Surfacing Top Course and compaction for roadway base and surface restoration outside traveled area, placing and maintaining temporary hot mix asphalt patching shall consist of a minimum 3-inches of temporary hot mix asphalt over compacted backfill within existing paved areas, and removal of the temporary hot mix asphalt mix prior to placement of permanent trench patch, or any ground cover, shall be incidental to this work.

## **8-21 PERMANENT SIGNING**

### **8-21.2 Materials**

*Section 8-21.2 is supplemented with the following:*

Sign facing shall be Type III (High Intensity Grade) retroreflective in accordance with Section 9-28.

### **8-21.3 Construction Requirements**

(\*\*\*\*\*)

*The first paragraph of this section shall be replaced with the following:*

The contractor shall remove or relocate existing signs as shown on the contract plans. These signs, poles, and bases shall be salvaged for re-use by the contractor or City sign shop. The contractor shall clean concrete from the existing sign post base, protect, and store till final installation. All relocated signs shall have new bases and poles provided by the contractor and new signs replaced where noted on the contract plans. All unused signs, bases, and poles shall be inspected by the City and if wanted, provided to the City by the contractor at no additional cost. Any unwanted items shall be disposed of at the contractor’s expense.

The contractor shall provide all materials, posts, bases, and signs for all new signage shown on the contract plans and install new and relocated signage in accordance with City of Kirkland Pre-Approved Plan No. CK-R.43. Alternate sign base and foundation installation may be proposed by the contractor for approval of the project engineer. Any alternates shall be provided to the City inspector for review and approval prior to construction.

(\*\*\*\*\*)

### **8-21.4 Measurement**

*This section shall be supplemented as follows:*

(\*\*\*\*\*)

“Remove/Relocate Existing Road Sign” shall include all signage to be removed, relocated, or new signage to be installed as shown on the project plans in accordance with City of Kirkland Pre-approved plan CK-R.43. All work to remove, salvage, protect, and store existing signage; and installation of relocated and new signage with the types shown on the contract plans shall be measured and paid as a lump sum.

(\*\*\*\*\*)

**8-21.5 Payment**

*This section shall be supplemented as follows:*

(\*\*\*\*\*)

Remove/Relocate Existing Road Sign	EA
Permanent Signage	EA

The unit contract price for “Remove and Relocate Existing Signage” shall be full compensation for all labor, materials, tools, and equipment necessary and incidental to the completion of the work including new support bases and poles, remove and salvage existing signage, clean concrete from existing bases, protect and store existing signage, core drilling existing cement concrete sidewalk, excavation, cement concrete foundation, backfill and compaction, fasteners, maintaining temporary signs and posts during the relocation of the permanent signs, and installation in accordance with the project plans, specifications, and Standard Plans.

The unit contract price for “Permanent Signage” shall be full compensation for all work and materials necessary to install new signs in accordance with the Plans and details, including all costs associated with furnishing, and installing.

**8-22 PAVEMENT MARKING (\*\*\*\*\*)**

**8-22.5 Payment**

*This section shall be supplemented as follows:*

(\*\*\*\*\*)

18" Thermoplastic Stop Bar	Linear Foot
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**8-24 ROCK AND GRAVITY BLOCK WALL AND GABION CRIBBING (\*\*\*\*\*)**

**8-24.1 Description**

*Section 8-24.1 is supplemented with the following:*

This Work includes providing and installing aesthetic landscape rocks where shown in the Plans or as directed by the Engineer.

**8-24.2 Materials**

*Section 8-24.2 is supplemented with the following:*

See city rockery wall detail.

### 8-24.3 Construction Requirements

Refer to plan set for Rock Wall material and construction requirements.

### 8-24.4 Measurement

*The first paragraph of Section 8-24.4 is deleted and replaced with the following:*

Rock wall will be measured by the square foot of completed wall in place. The bottom limits for vertical measurement will be the bottom of the bottom layer of rock. The top limit for vertical measurement will be the top of the top layer of rock. The horizontal limits for measurement are from the end of the wall to the end of the wall.

### 8-24.5 Payment

The second and third paragraphs of Section 8-24.5 are deleted and replaced with the following:

Rockery Wall	SF
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The pay item "Rockery Wall, 1 – 10' High Including Backfill and Drain Pipe" shall include the Backfill for Rock Wall and Underdrain Pipe and Pipe bedding and will be paid for as Face Square Foot of the finished wall.

## 8-26 HANDRAIL RESTORATION (\*\*\*\*\*)

### 8-26.1 Description

Handrail Restoration to consist of the restoration of existing handrail along the lengths depicted in the contract plans to bring the handrail to ADA regulation compliance, including the installation of a lower, horizontal rail. Installation of new rail pieces shall be in accordance with manufacturers recommendations and requirements and per all notes and specifications on the contract plans.

### 8-26.2 Materials

Railings shall be steel pipe fabricated and welded to match existing handrail. Lower pipe rail to be installed along the bottom of the existing handrail such that no greater than 4" of space exists between the finished grade and the bottom of pipe rail.

Pipe railing to be of diameter 1-1/4" and shall be given a clear anodic coating at least 0.0006 inch thick. Pipe shall be hot water sealed and have a uniform finish with a painted color that matches the existing handrail.

### 8-26.3 Construction Requirements

Preparation for welding of bottom rail shall include necessary grinding of existing metal pipe or any related connection preparation for field welding of lower rail to existing rail.

Field welding of pipe shall be done in compliance with latest AASHTO Standard Specifications for structural supports for highway signs, luminaires and traffic signals.

Lower rail installation shall occur for at least the entire length of the disturbed area of newly constructed sidewalk associated with the project. If the sidewalk installed should end between two existing support posts for the existing handrail, lower handrail shall be installed beyond the end of the newly constructed sidewalk to the next available support post.

**8-26.4 Measurement**

Handrail Restoration to be measured per linear foot.

**8-26.5 Payment**

Handrail Restoration	Per Linear Foot
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**8-27 CUSTOM THERMOPLASTIC TACTICAL URBANISM**

**8-27.1 Description**

The Item is a durable, pavement overlay marking material suitable for streetscape and traffic calming purposes on public roads and private properties. Custom Thermoplastic design to be placed and installed with manufacturer recommendations and requirements and per all notes and specifications on the contract plans.

**8-27.2 Materials**

Custom Thermoplastic Tactical Urbanism design schematic per the 2' x 2' Repeatable Pattern detail located in Appendix A and manufactured by Ennis-Flint or approved equal .

Materials are supplied in 24 inch by 24 inch segments. The material must be factory assembled and interconnected with a compatible material.

**8-27.3 Construction Requirements**

Pavement shall be clean, dry, and free of debris. Material must be applied in temperatures above 45 degrees Fahrenheit without special storage, preheating or treatment of material prior to application.

Installation of the Custom Thermoplastic Tactical Urbanism is to be installed in accordance with manufacturer requirements by an applicator certified by the material manufacturer.

The Custom Thermoplastic Tactical Urbanism is to be located per the contract plans.

**8-27.4 Measurement**

Custom Thermoplastic Tactical Urbanism is to be measured per square foot.

**8-27.5 Payment**

Custom Thermoplastic Tactical Urbanism	Per Square Foot
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**8-28 RED CURB PAINT**

**8-28.1 Description**

Red curb paint designates 'no parking zones' for motorists. Motorists are not permitted to park within red curbing limits.

**8-28.2 Materials**

Red Curb Paint to be [Rust-Oleum Water Base Traffic Zone Striping Paint](#) (available at Grainger) or other water-based red curb marking paint as approved by Engineer.

**8-28.3 Construction Requirements**

Face and top of curb to be painted with at minimum two coats of curbing paint.

Red curb paint to be located per contract plans. Locations shall be done in compliance with latest City of Kirkland standards and code.

**8-28.4 Measurement**

Red Curb Paint is to be measured per linear foot.

**8-28.5 Payment**

Red Curb Paint	Per Linear Foot
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**END OF DIVISION 8**

# PREVAILING WAGE RATES



**City of Kirkland**

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## PREVAILING WAGE RATES

Prevailing wage rates can be found at:  
[www.lni.wa.gov/tradeslicensing/prevwage/wagerates](http://www.lni.wa.gov/tradeslicensing/prevwage/wagerates)

Use 2020 rates  
(February 20, 2020)

King County

A copy of the applicable wage rates is available for viewing in our office:

City Hall Annex  
310 1<sup>st</sup> Street  
Kirkland, WA 98033

The City of Kirkland will mail a hard copy of the applicable wage rates upon request.  
Send your request to the Project Engineer, or [jmuse@kirklandwa.gov](mailto:jmuse@kirklandwa.gov).



# City of Kirkland

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# **APPENDIX A**

## **STANDARD PLANS AND DETAILS**



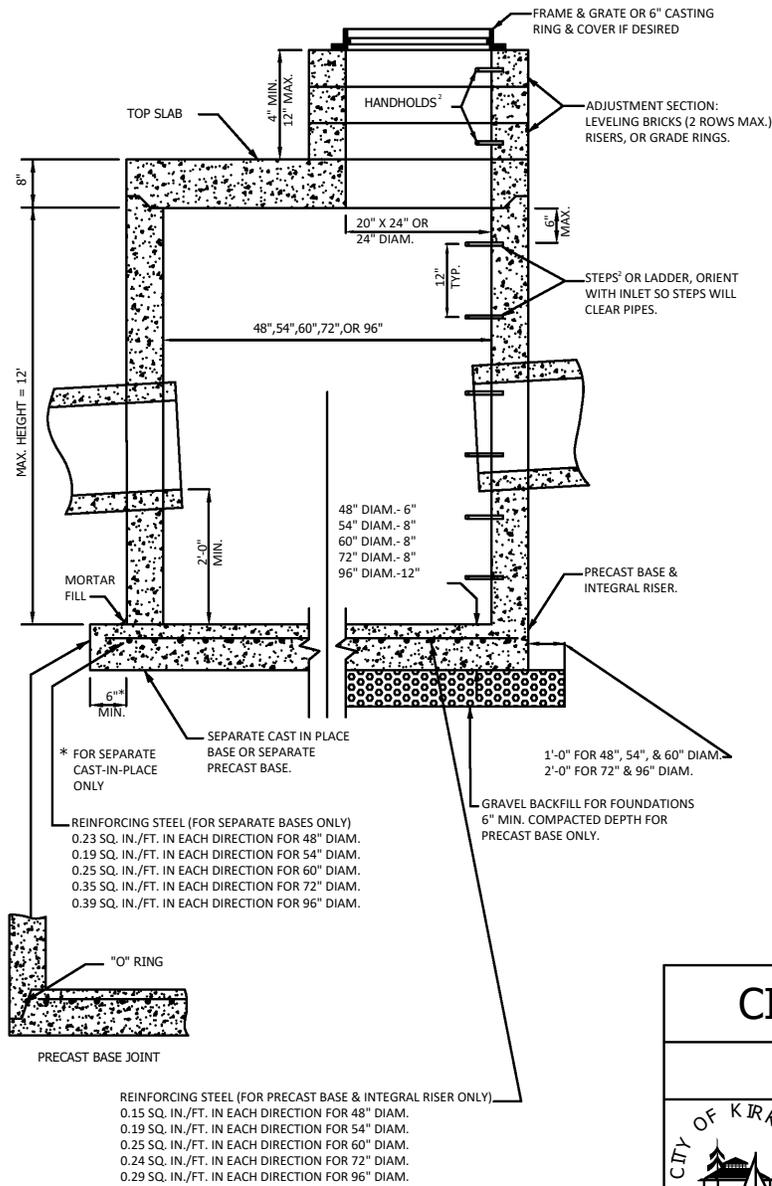
**City of Kirkland**

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**NOTES:**

1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M199) AND ASTM C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
2. HANDHOLDS IN ADJUSTMENT SECTION SHALL HAVE 3" MIN. CLEARANCE. STEPS IN CATCH BASIN SHALL HAVE 6" MIN. CLEARANCE. SEE STD. DTL. NO. CK-D.12, CATCH BASIN DETAILS. HANDHOLDS SHALL BE PLACED IN ALTERNATING GRADE RINGS OR LEVELING BRICK COURSE WITH A MIN. OF ONE HANDHOLD BETWEEN THE LAST STEP AND TOP OF THE FINISHED GRADE.
3. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF 2" MIN. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT. PIPES SHALL BE INSTALLED ONLY IN FACTORY KNOCKOUTS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. CATCH BASIN FRAMES AND GRATES OR COVERS SHALL BE IN ACCORDANCE WITH SEC. 7.05 OF THE STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
6. ALL BASE REINFORCING STEEL SHALL HAVE A MIN. YIELD STRENGTH OF 60,000 PSI AND BE PLACED IN THE UPPER HALF OF THE BASE WITH 1" MIN. CLEARANCE.
7. MIN. SOIL BEARING VALUE SHALL EQUAL 3,300 POUNDS PER SQUARE FOOT.
8. FOR DETAILS SHOWING LADDER, STEPS, HANDRAILS AND TOP SLABS, SEE STD. DTL. NO. CK-D.12 AND CK-S.14.
9. ALL MANHOLE JOINTS SHALL USE A CONFINED RUBBER GASKET AND GROUTED (INSIDE AND OUT) TO MEET ASTM C-443 SPECIFICATIONS.
10. ROUND SOLID LOCKING LIDS REQUIRED IN SIDEWALK AND PLANTER AREAS.



**ACCEPTABLE PIPE SIZES:**

Basin Type	Pipe Size								
	6"	8"	12"	15"	18"	24"	30"	36"	48"
Type II-48" CB	X	X	X	X	X	X	X		
Type II-54" CB	X	X	X	X	X	X	X	X	
Type II-60" CB	X	X	X	X	X	X	X	X	X
Type II-72" CB	X	X	X	X	X	X	X	X	X
Type II-96" CB	X	X	X	X	X	X	X	X	X

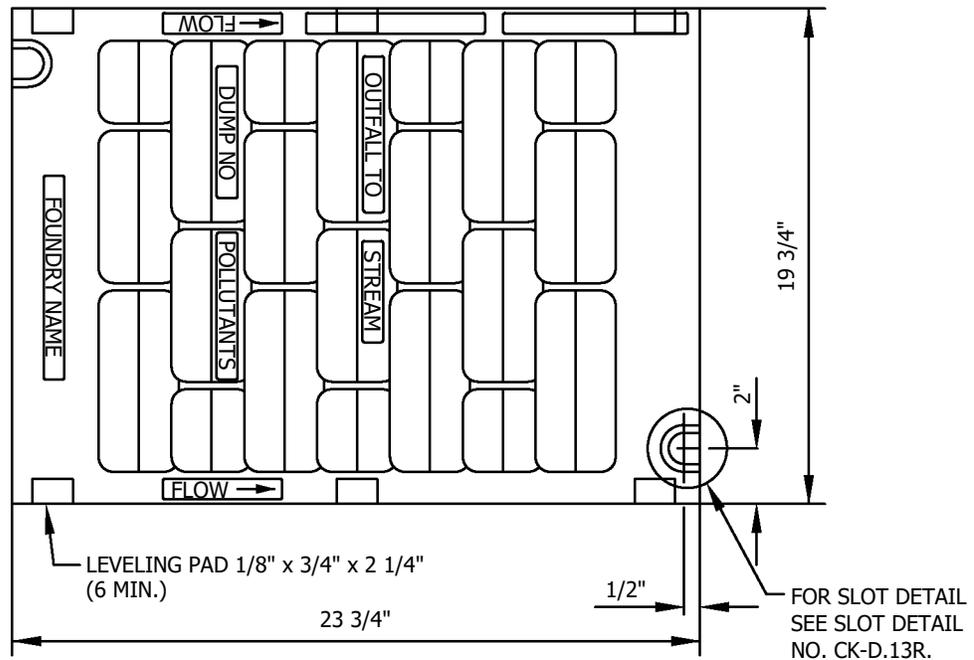
**CITY OF KIRKLAND**

PLAN NO. CK- D.09

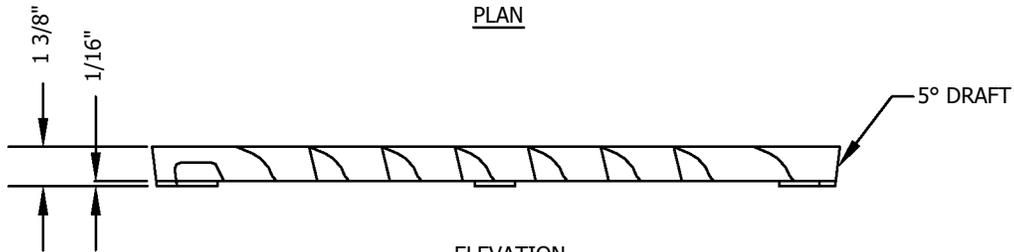


**CATCH BASIN  
TYPE 2  
48", 54", 60", 72", 96"**

REINFORCING STEEL (FOR PRECAST BASE & INTEGRAL RISER ONLY)  
 0.15 SQ. IN./FT. IN EACH DIRECTION FOR 48" DIAM.  
 0.19 SQ. IN./FT. IN EACH DIRECTION FOR 54" DIAM.  
 0.25 SQ. IN./FT. IN EACH DIRECTION FOR 60" DIAM.  
 0.24 SQ. IN./FT. IN EACH DIRECTION FOR 72" DIAM.  
 0.29 SQ. IN./FT. IN EACH DIRECTION FOR 96" DIAM.



PLAN

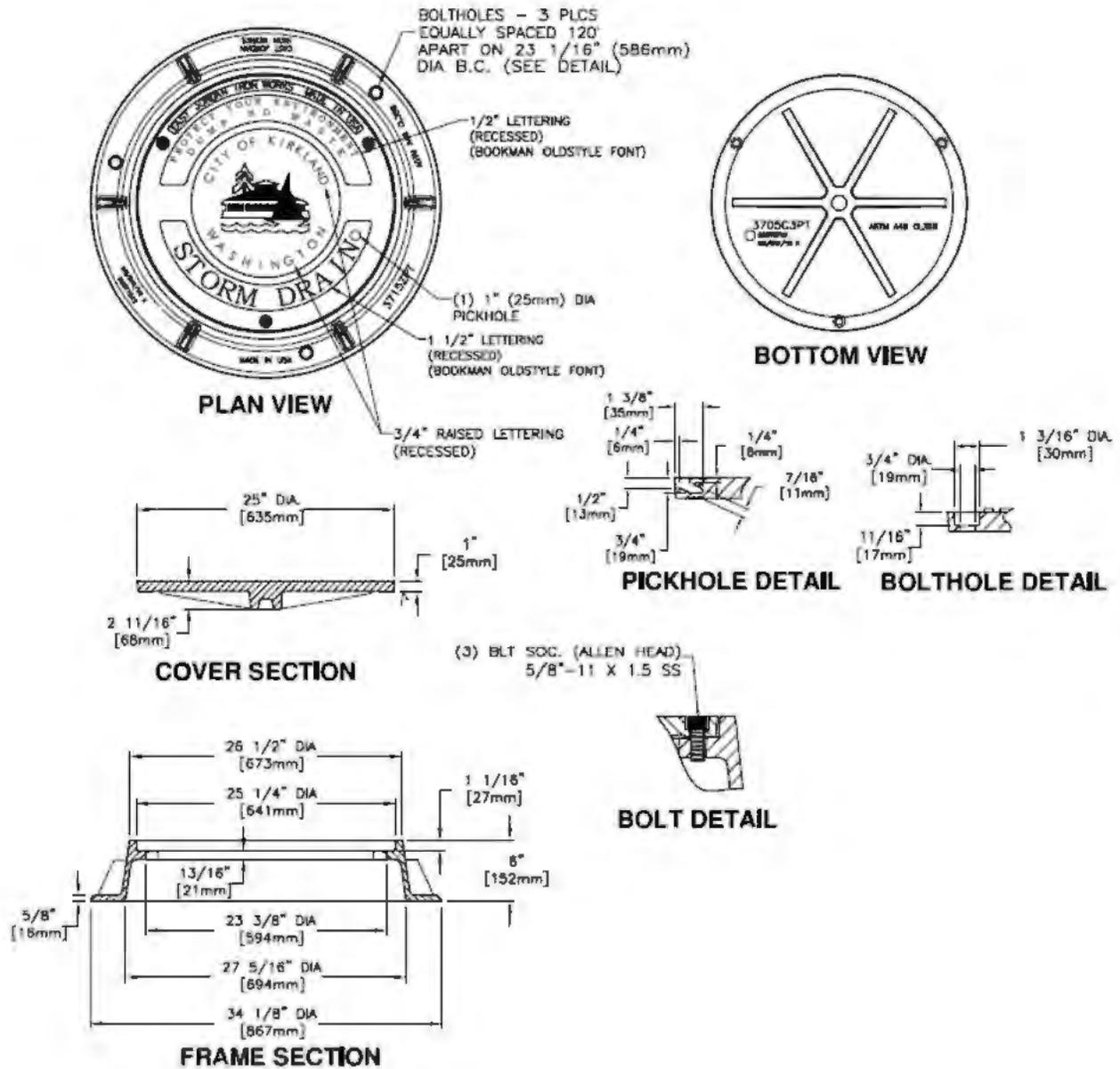


ELEVATION

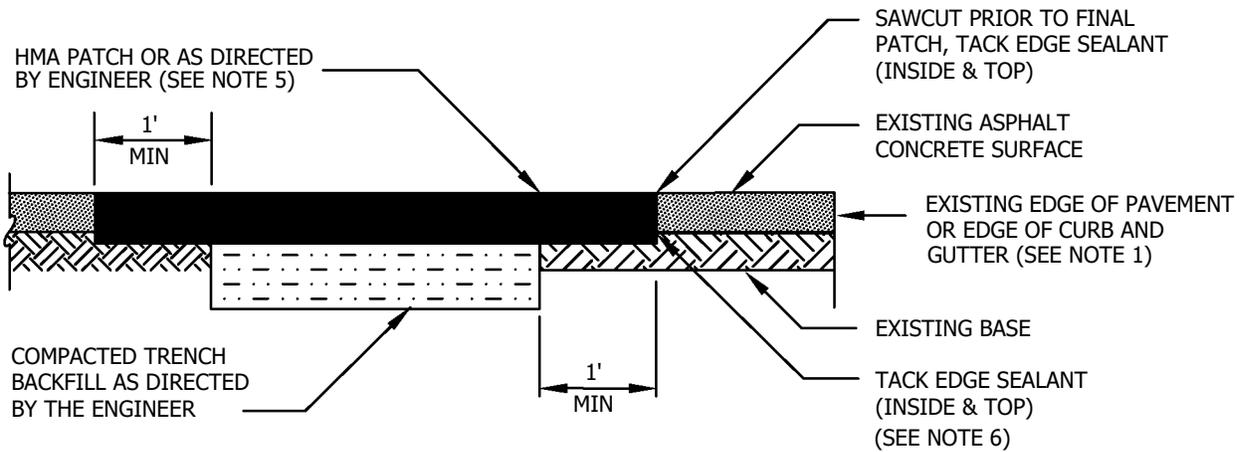
**NOTES:**

1. USE EAST JORDAN IRON WORKS OR EQUAL TWO BOLT LOCK CAPABILITY THAT MEETS WSDOT SPEC. MANUFACTURER SUBJECT TO APPROVAL BY CITY.
2. USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) BOLTS, 2" LONG. NOTE SLOT DETAIL.
3. MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
4. "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
5. SHALL CONFORM TO SEC. 7.05 OF THE STANDARD SPECIFICATIONS.
6. WELDING IS NOT PERMITTED.
7. EDGES SHALL HAVE 0.125" RADIUS, 0.125" CHAMBER OR COMPLETE DEBURRING.
8. USE A BI-DIRECTIONAL VANED GRATE AT ANY LOW POINT OR WHEN FLOWS COME FROM MULTIPLE DIRECTIONS.
9. NO EXPANSION MATERIAL IN THE FLOW LINE, WHERE CONCRETE COMES TO FRAME.
10. FRAME AND COVER SHALL BE H-20 LOADING RATED IF INSTALLED IN ROADWAY.

<b>CITY OF KIRKLAND</b>	
PLAN NO. CK- D.14	
	<b>VANED GRATE FOR CATCH BASIN AND INLET</b>



<b>CITY OF KIRKLAND</b>	
PLAN NO. CK- D.18	
	<b>24" MANHOLE FRAME W/LOCKING COVER AND LOGO</b>

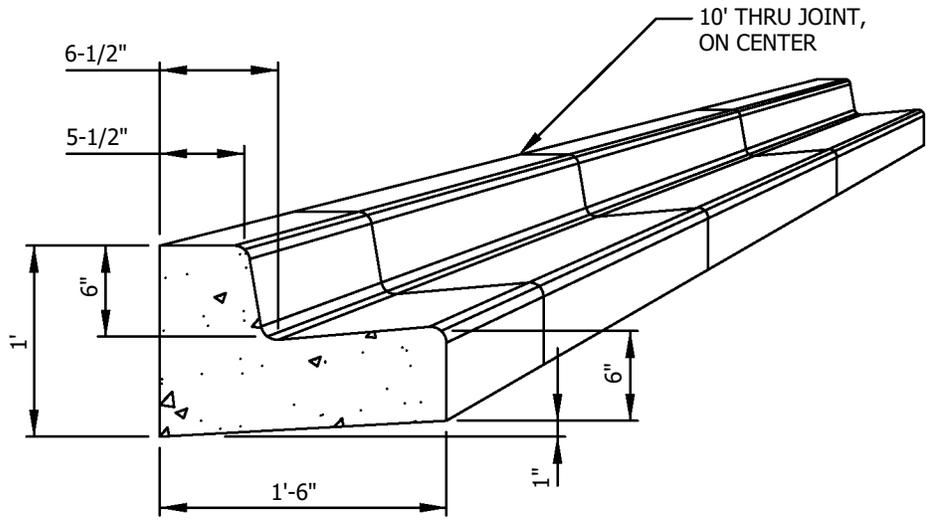


TYPICAL PATCH FOR PAVEMENT

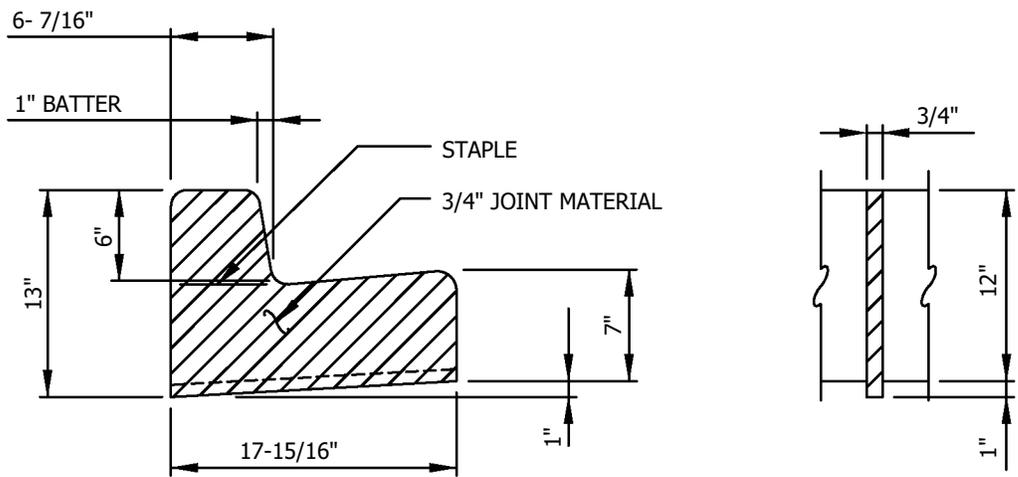
NOTES:

1. IF THE DISTANCE FROM THE EDGE OF PATCH TO THE EDGE OF PAVEMENT OR CURB AND GUTTER IS LESS THAN 3', THE PATCH MUST CONTINUE TO THE EXISTING EDGE; UNLESS ROADWAY IS OVERLAID WITHIN 60 DAYS.
2. HOT MIX ASPHALT SHALL BE CLASS 1/2".
3. ALL TRENCH BACKFILL SHALL BE CRUSHED SURFACING TOP COURSE MATERIAL FOR PERPENDICULAR TRENCHES, OR AS DIRECTED BY ENGINEER.
4. HMA CLASS 1/2" MAY BE USED IN LIEU OF ATB.
5. PATCH MUST ALWAYS BE 1" DEEPER THAN EXISTING ASPHALT; MAX 6" DEEP, OR AS DIRECTED BY ENGINEER.
6. TOP SEAL-USE PG 64-22 AND PROVIDE A SAND BLANKET TO ALLEVIATE TRAILING.

<b>CITY OF KIRKLAND</b>	
PLAN NO. CK- R.12	
	<b>RESTORATION DETAIL AND PAVEMENT PATCHING</b>



TYPICAL SECTION FOR CURB & GUTTER, TYPE A

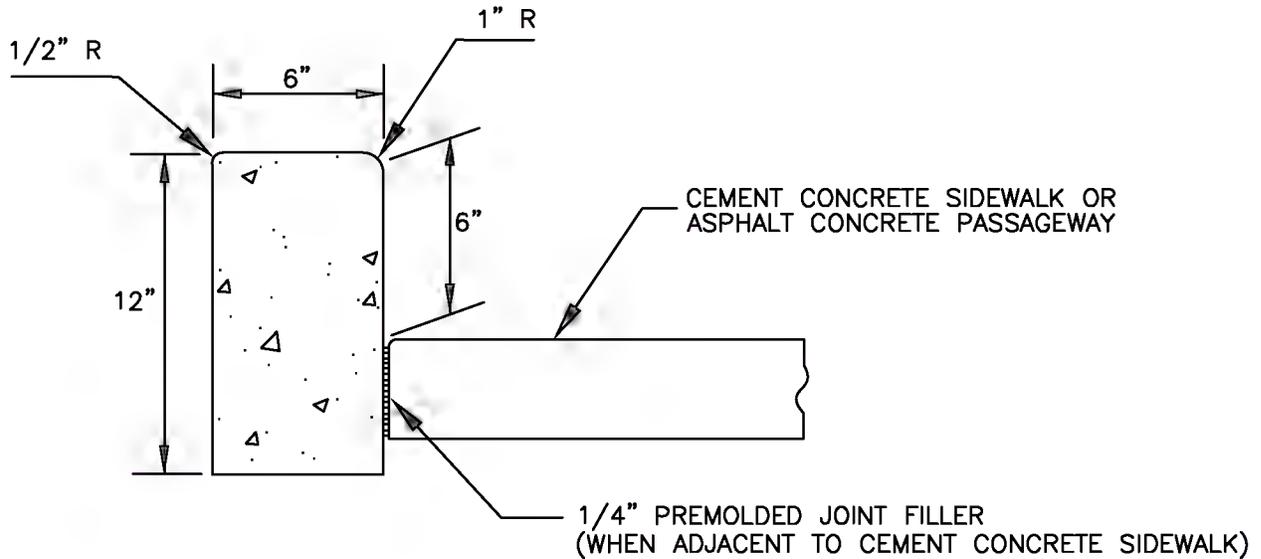


JOINT DETAIL

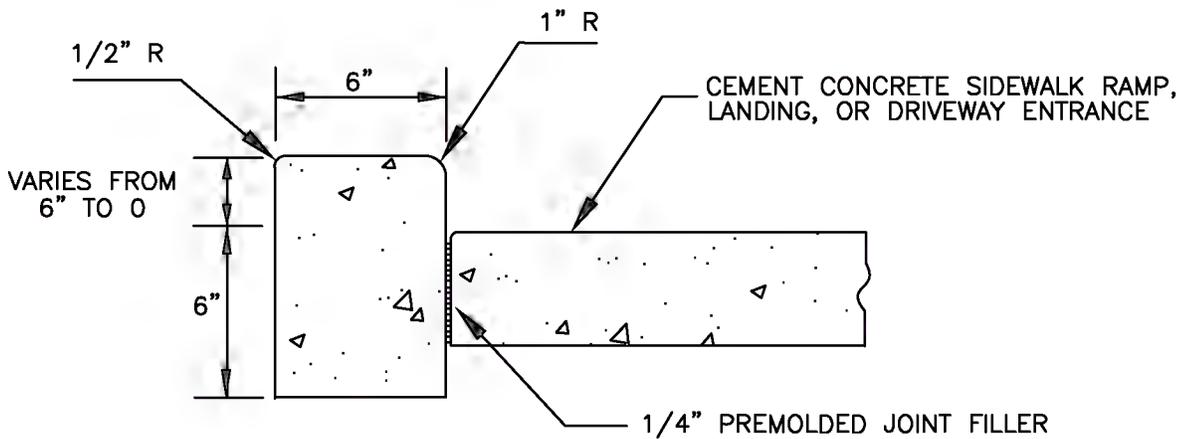
NOTES:

1. FORMS SHALL BE STEEL AND SET TRUE TO LINE AND GRADE (INSPECTION IS REQUIRED PRIOR TO PLACEMENT OF CONCRETE) UNLESS SPECIFIED DIFFERENTLY BY CITY PROJECT ENGINEER.
2. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000.
3. BASE COURSE SHALL BE 4" OF 5/8" MINUS CRUSHED ROCK.

CITY OF KIRKLAND	
PLAN NO. CK-R.17	
	CONCRETE CURB AND GUTTER, TYPE "A"



CEMENT CONCRETE PEDESTRIAN CURB



CEMENT CONCRETE PEDESTRIAN CURB

AT SIDEWALK RAMPS & LANDINGS, AND DRIVEWAY ENTRANCES

NOTES

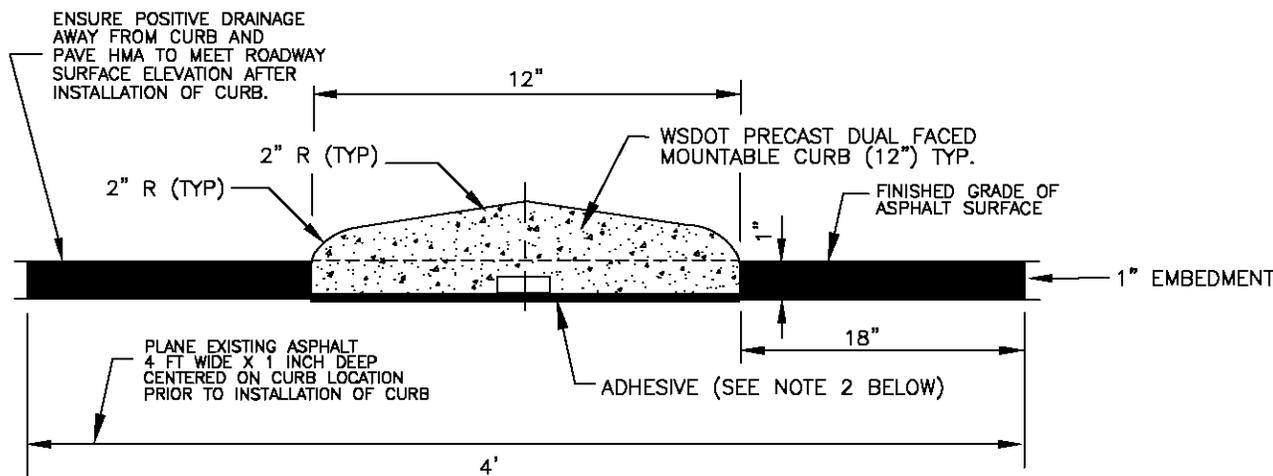
1. FORMS SHALL BE STEEL AND SET TRUE TO LINE AND GRADE (INSPECTION REQUIRED PRIOR TO PLACEMENT OF CONCRETE).
2. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000.
3. BASE COURSE SHALL BE 4" OF 5/8" MINUS CRUSHED ROCK.
4. SEE CK-R.17 FOR CURB EXPANSION AND CONTRACTION JOINT SPACING.

CITY OF KIRKLAND

PLAN NO. CK-R.17A



CEMENT CONCRETE  
PEDESTRIAN CURB

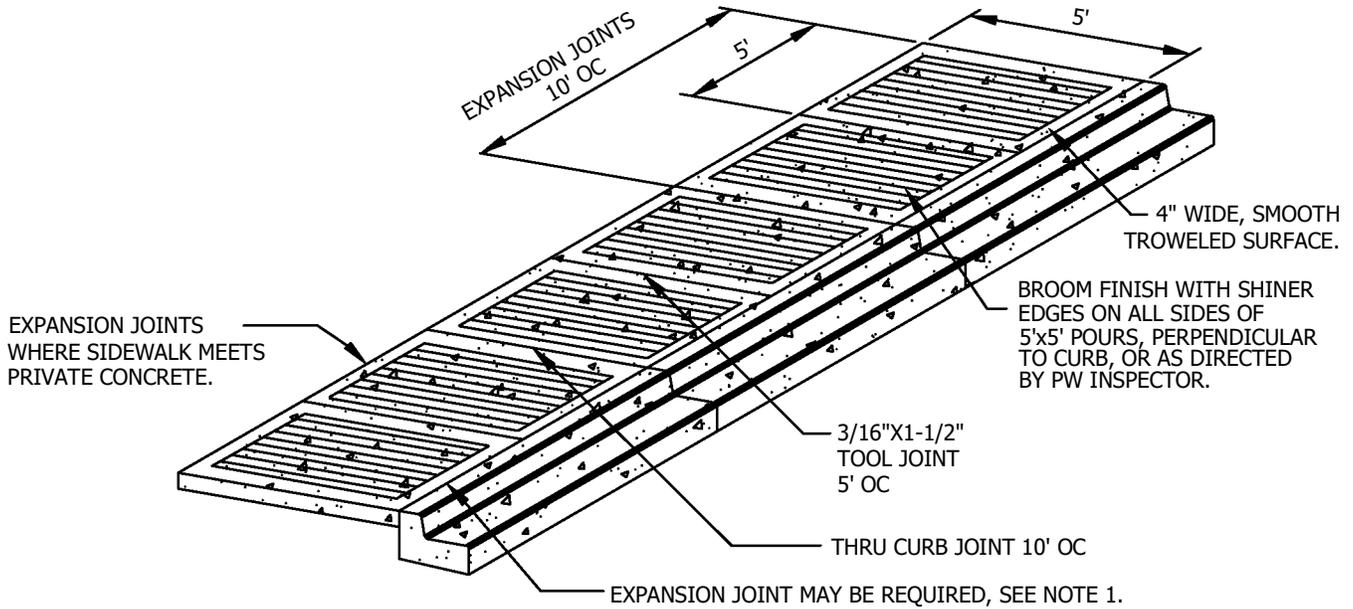


MOUNTABLE MEDIAN CURB  
NOT TO SCALE

NOTE:

1. ALL JOINTS BETWEEN ASPHALT PATCH AND EXISTING PAVEMENT SHALL BE SEALED.
2. THE ADHESIVE SHALL MEET THE REQUIREMENTS OF SECTION 9.26 OF THE WSDOT STANDARD SPECIFICATION. USE APPROPRIATE ADHESIVE TYPE FOR EXISTING CONDITIONS.
3. MEDIAN CURB SHALL BE PAINTED. PAINT SHALL MEET SECTION 9.34.2 OF THE WSDOT STANDARD SPECIFICATION.

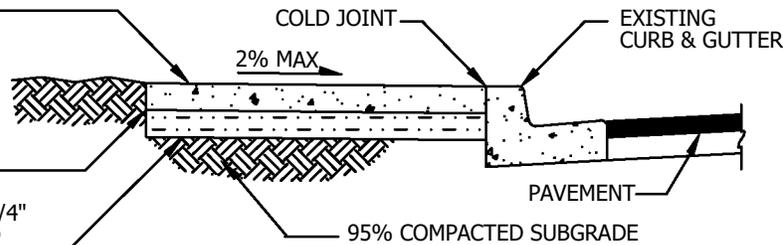
CITY OF KIRKLAND	
PLAN NO. CK-R.19B	
	<p>MOUNTABLE MEDIAN CURB</p>



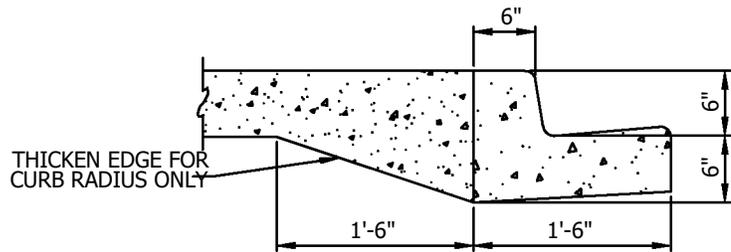
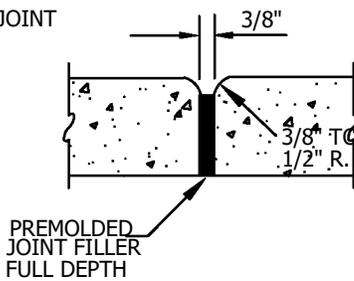
5' WIDE CONCRETE SIDEWALK  
4" MIN THICKNESS (6" AT DRIVEWAYS)  
BROOM FINISH

PRE-EMERGENCE HERBICIDE (APPROX 8 LBS/2500 SQ FT)

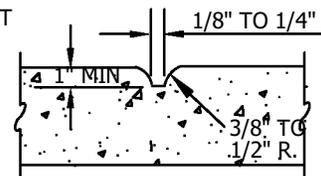
4" MINIMUM 3/4" OR 1-1/4" GRAVEL AS DETERMINED BY THE ENGINEER



EXPANSION JOINT



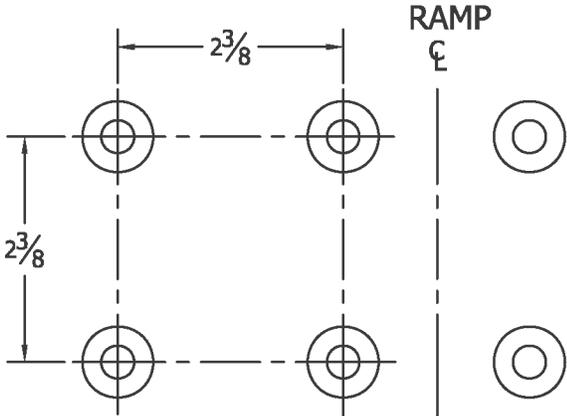
CONTRACTION JOINT



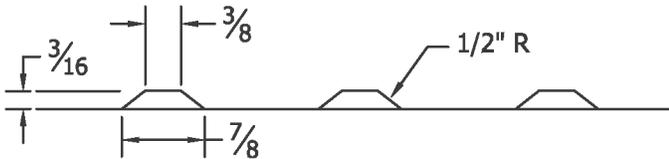
**NOTES**

1. SIDEWALK AND CURB & GUTTER CANNOT BE POURED MONOLITHICALLY. EXPANSION JOINT WILL BE REQUIRED WHEN CONCRETE SIDEWALK IS SURROUNDED BY OTHER HARD SURFACES (E.G., DRIVEWAY); OR AS DIRECTED BY PW INSPECTOR.
2. CONCRETE SHALL BE CEMENT CONCRETE CLASS 4000 PSI MINIMUM, WITH AIR ENTRAINMENT. NO COLOR OR TINT SHALL BE ADDED.
3. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND SHALL BE STEEL UNLESS OTHERWISE APPROVED BY INSPECTOR.
4. SIDEWALK SHALL NOT BE POURED IN THE RAIN. SEE POLICY R-8, PLACING CONCRETE OR ASPHALT IN ADVERSE WEATHER CONDITIONS.

CITY OF KIRKLAND	
PLAN NO. CK-R.23	
	SIDEWALK SECTION



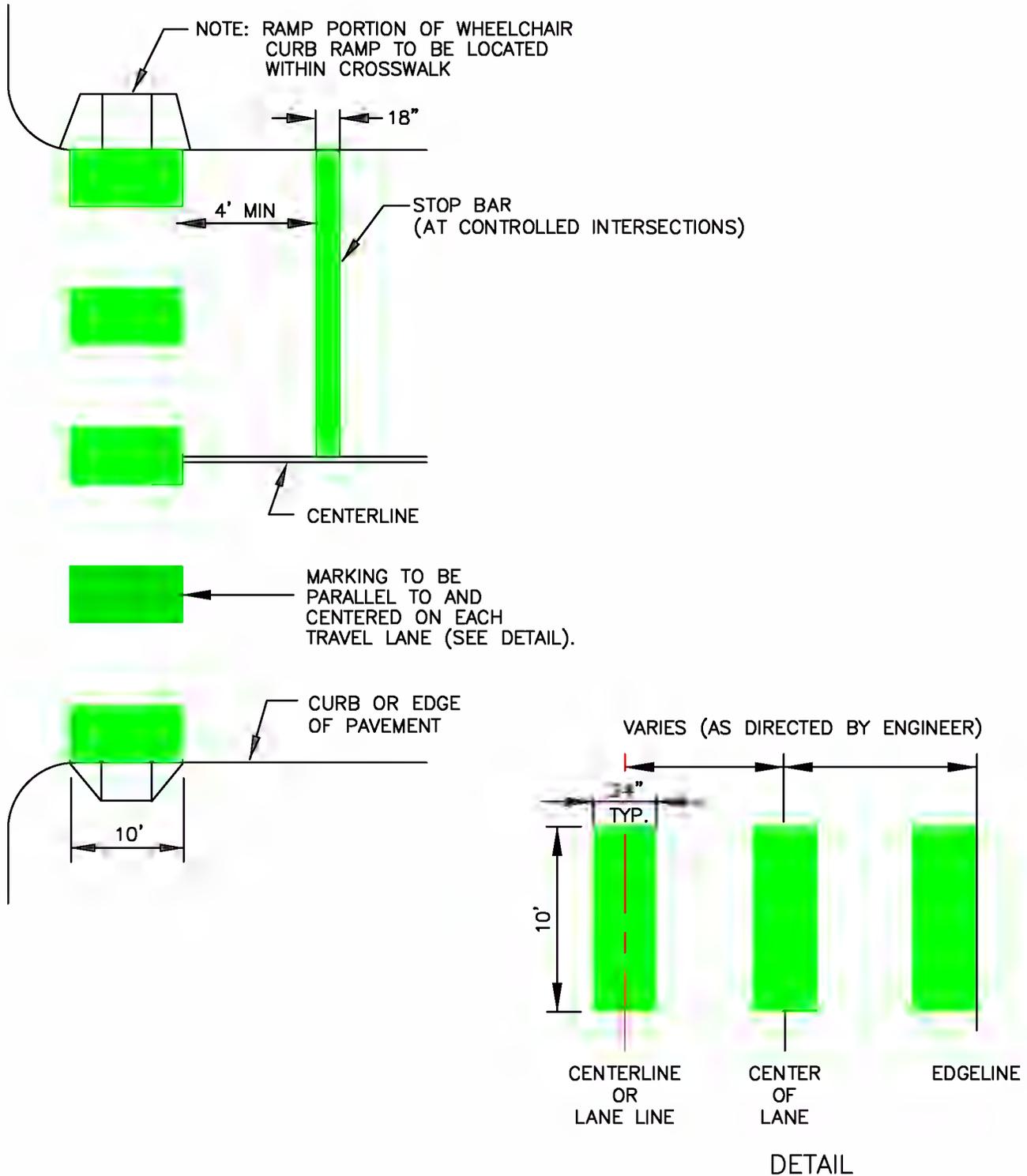
PLAN



ELEVATION

NOTE:  
 THE DETECTABLE WARNING PATTERN MAY BE FORMED BY ADDING A MANUFACTURED MATERIAL EITHER BEFORE OR AFTER THE CONCRETE HAS CURED. THE TWO-FOOT WIDE DETECTABLE WARNING PATTERN AREA ON THE RAMP SHALL BE YELLOW AND SHALL MATCH THE COLOR OF "STANDARD INTERSTATE YELLOW" PAINT AS SPECIFIED IN FORMULA K-2-83. EMBOSSING THE WET CONCRETE OR INSTALLING MASONRY OF CERAMIC TILES MUST BE APPROVED BY CITY ENGINEER.

CITY OF KIRKLAND	
PLAN NO. CK-R.25B	
	TRUNCATED DOME TEXTILE WARNING SURFACE



NOTE

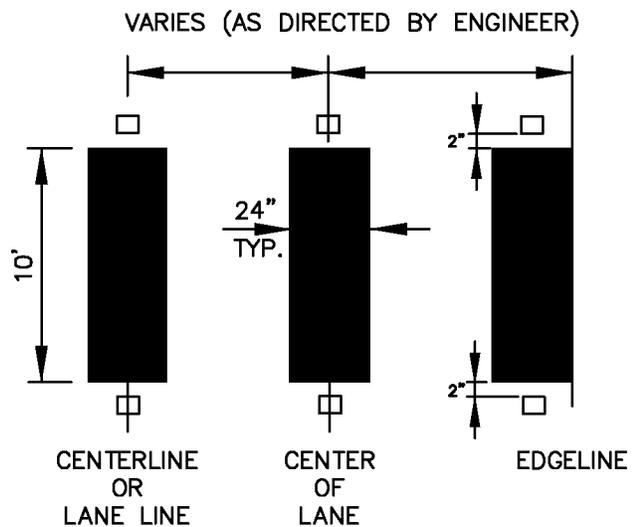
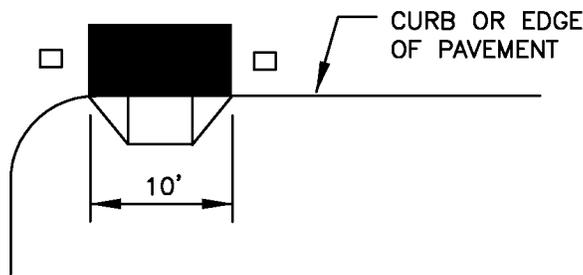
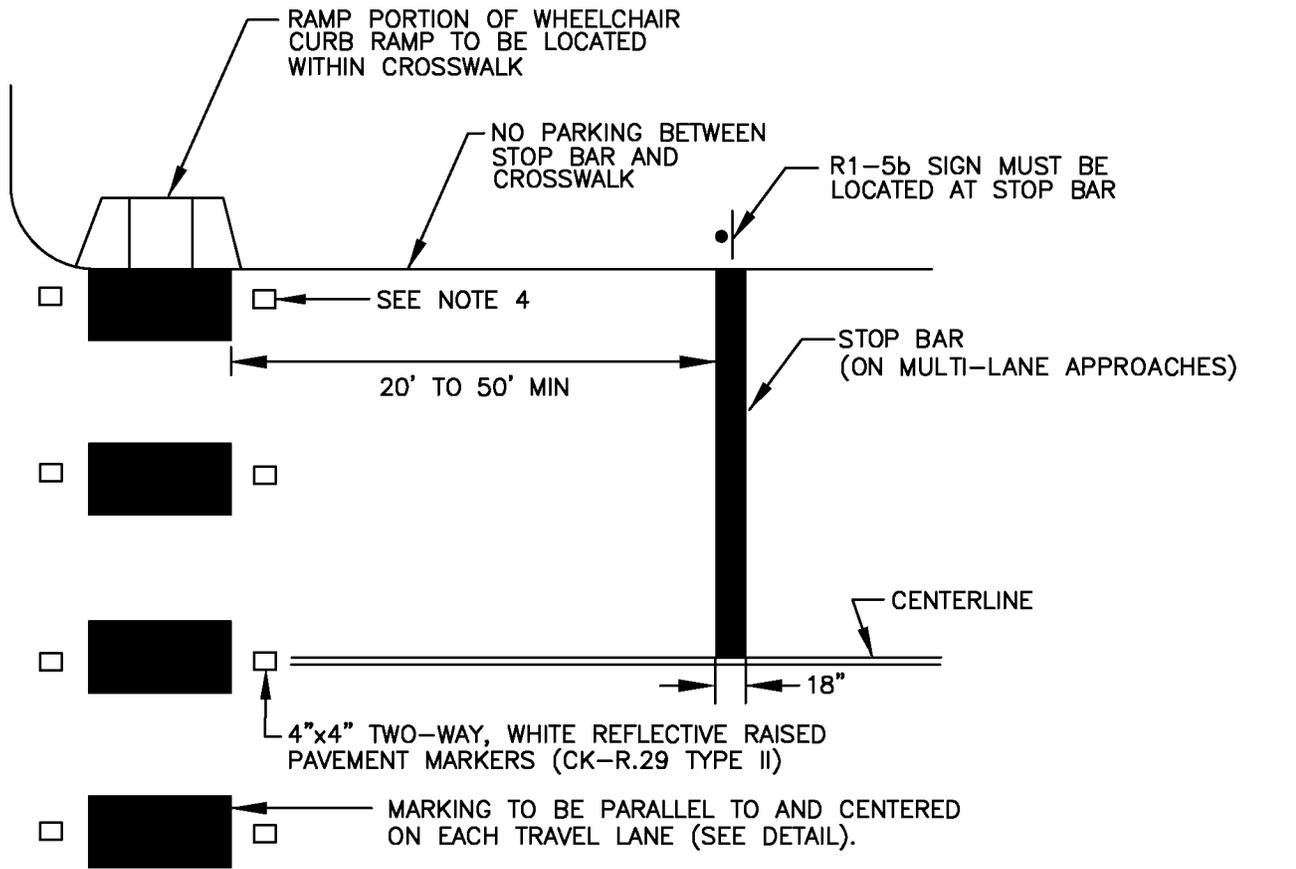
- 1. MARKINGS SHALL BE THERMOPLASTIC.

CITY OF KIRKLAND

PLAN NO. CK-R.28



CROSSWALK AND STOP BAR DETAIL

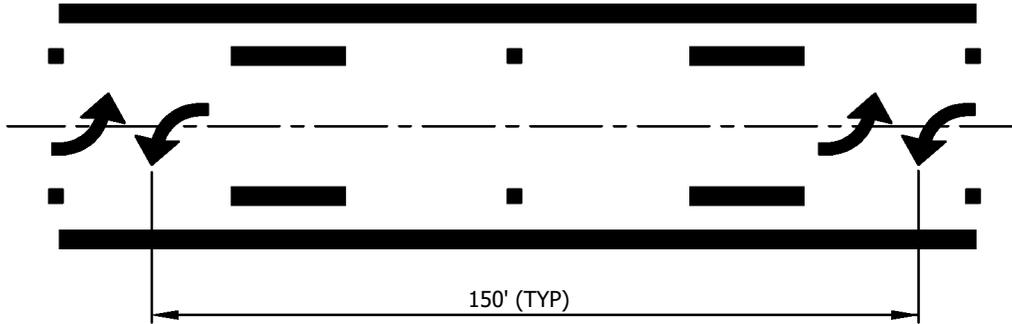


**NOTES**

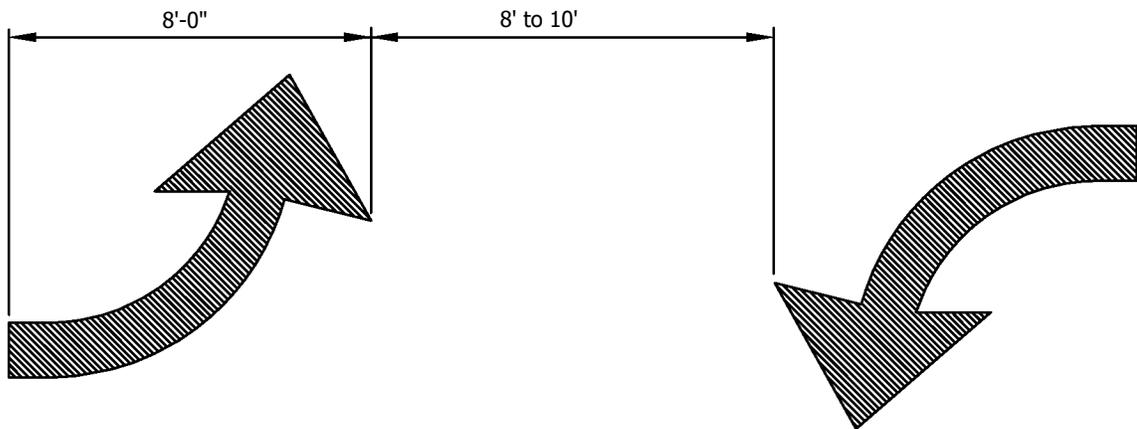
1. MARKINGS SHALL BE THERMOPLASTIC.
2. FOR TWO-WAY REFLECTIVE RAISED PAVEMENT MARKERS, SEE PLAN NO. CK-R.29 TYPE 2.
3. SEE SECTION 3B.16 2009 MUTCD FOR MORE INFORMATION.
4. DO NOT PLACE RPM IN BIKE LANE OR ON EDGE LINES.

**DETAIL**

<b>CITY OF KIRKLAND</b>	
PLAN NO. CK-R.28B	
	<b>CROSSWALK AND STOP BAR DETAIL FOR UNCONTROLLED APPROACHES</b>



TWO-WAY LEFT TURN MARKERS



TYPICAL ARROW

NOTES

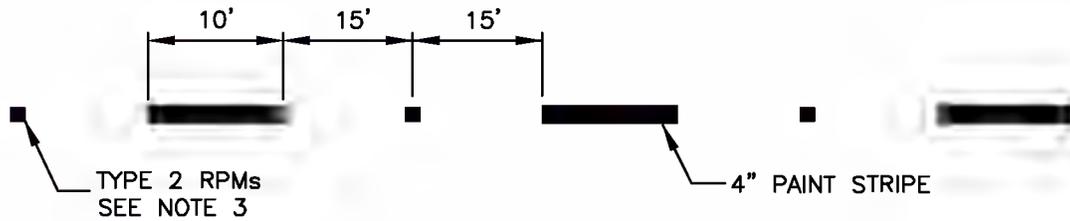
1. THERMOPLASTIC REQUIRED

CITY OF KIRKLAND

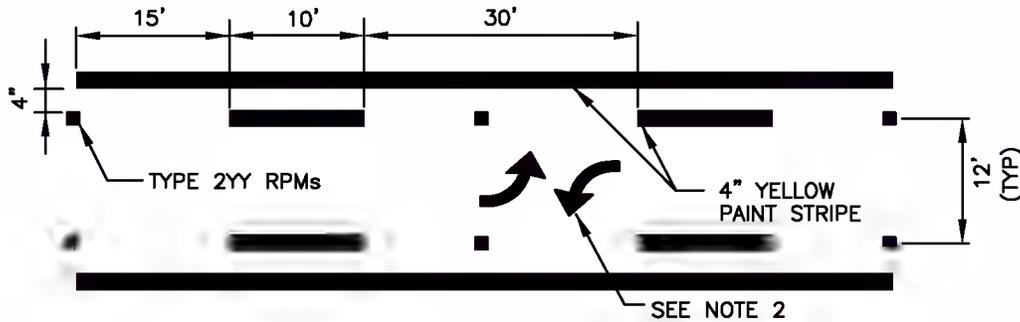
PLAN NO. CK- R.30



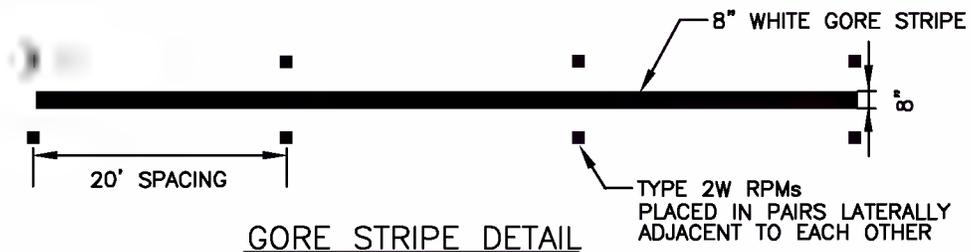
TWO-WAY LEFT  
TURN LANE AND  
TYPICAL ARROW



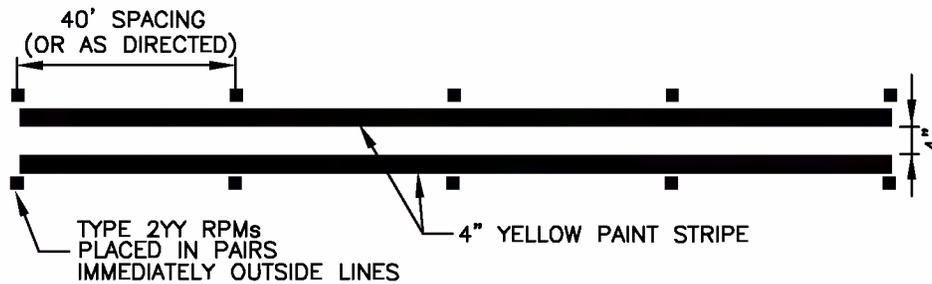
SKIP CENTER & LANE STRIPE DETAIL



TWO-WAY LEFT TURN DETAIL



GORE STRIPE DETAIL



DOUBLE YELLOW CENTER DETAIL

NOTES

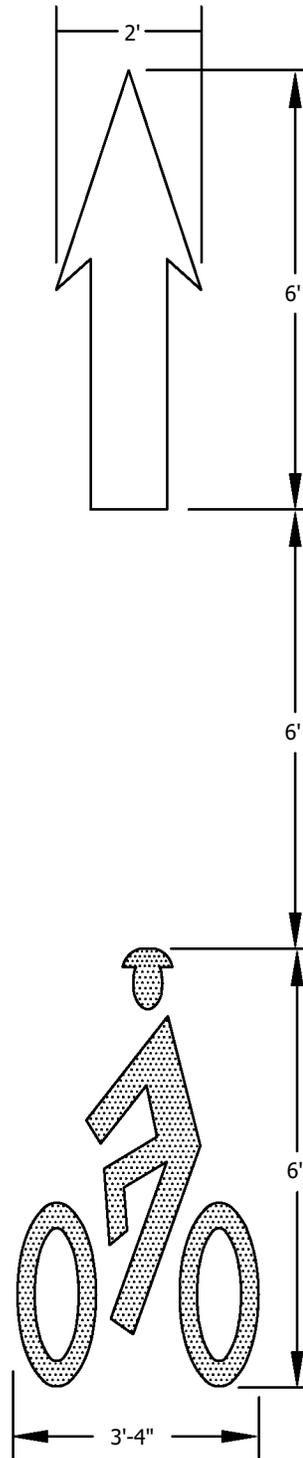
1. MATCH EXISTING PAVEMENT MARKING DIMENSIONS.
2. SEE CK-R.30 FOR TWO-WAY LEFT TURN ARROW PLACEMENT.
3. RAISED PAVEMENT MARKER COLOR SHALL CONFORM TO THE COLOR OF THE MARKING FOR WHICH THEY SUPPLEMENT, SUBSTITUTE FOR, OR SERVE AS A POSITIONING GUIDE FOR.

CITY OF KIRKLAND

PLAN NO. CK-R.31



PAVEMENT  
MARKING DETAIL



NOTES:

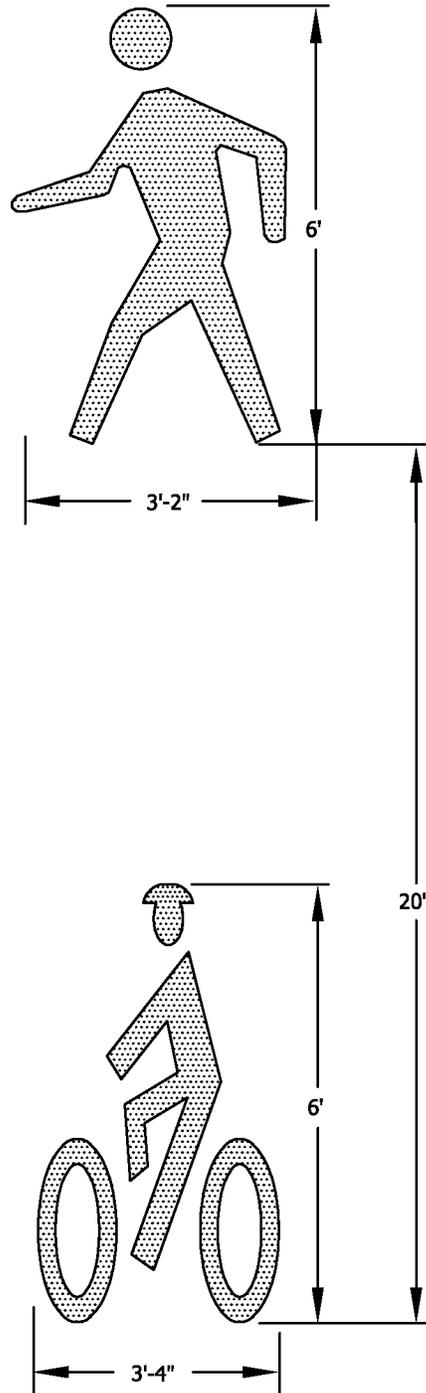
1. BIKE LANE SYMBOLS AND ARROW MATERIAL SHALL BE 90 MILL, PREFORMED, SKID RESISTANT THERMOPLASTIC.
2. BICYCLE SYMBOL FACES ROADWAY CENTERLINE.

CITY OF KIRKLAND

PLAN NO. CK-R.34



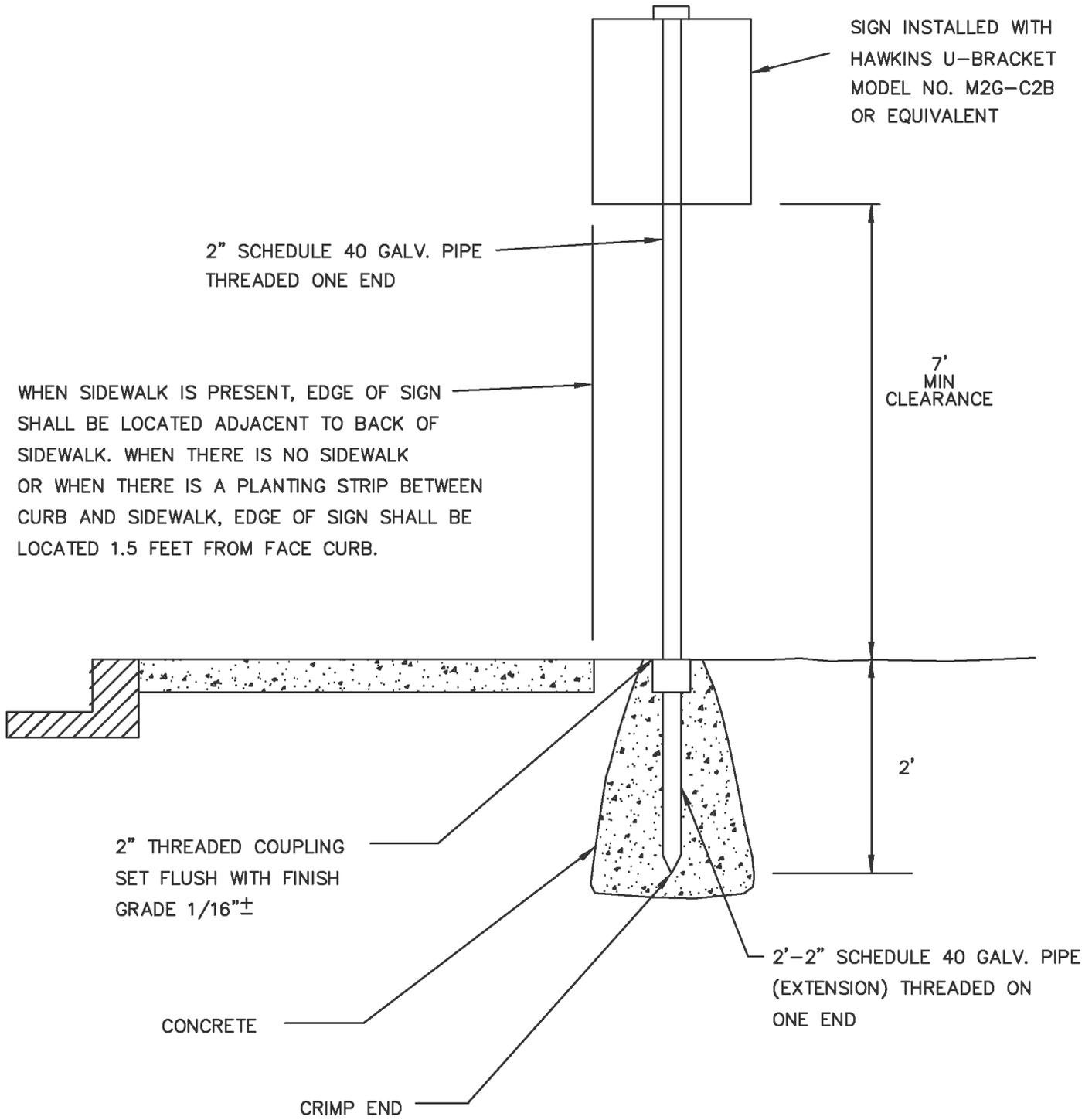
BICYCLE LANE  
MARKINGS



**NOTES:**

1. BIKE AND PEDESTRIAN LANE SYMBOLS MATERIAL SHALL BE 90 MILL, PERFORMED, SKID RESISTANT THERMOPLASTIC.
2. BICYCLE AND PEDESTRIAN SYMBOLS FACES ROADWAY CENTERLINE.

CITY OF KIRKLAND	
PLAN NO. CK-R.34B	
	BICYCLE AND PEDESTRIAN LANE MARKINGS

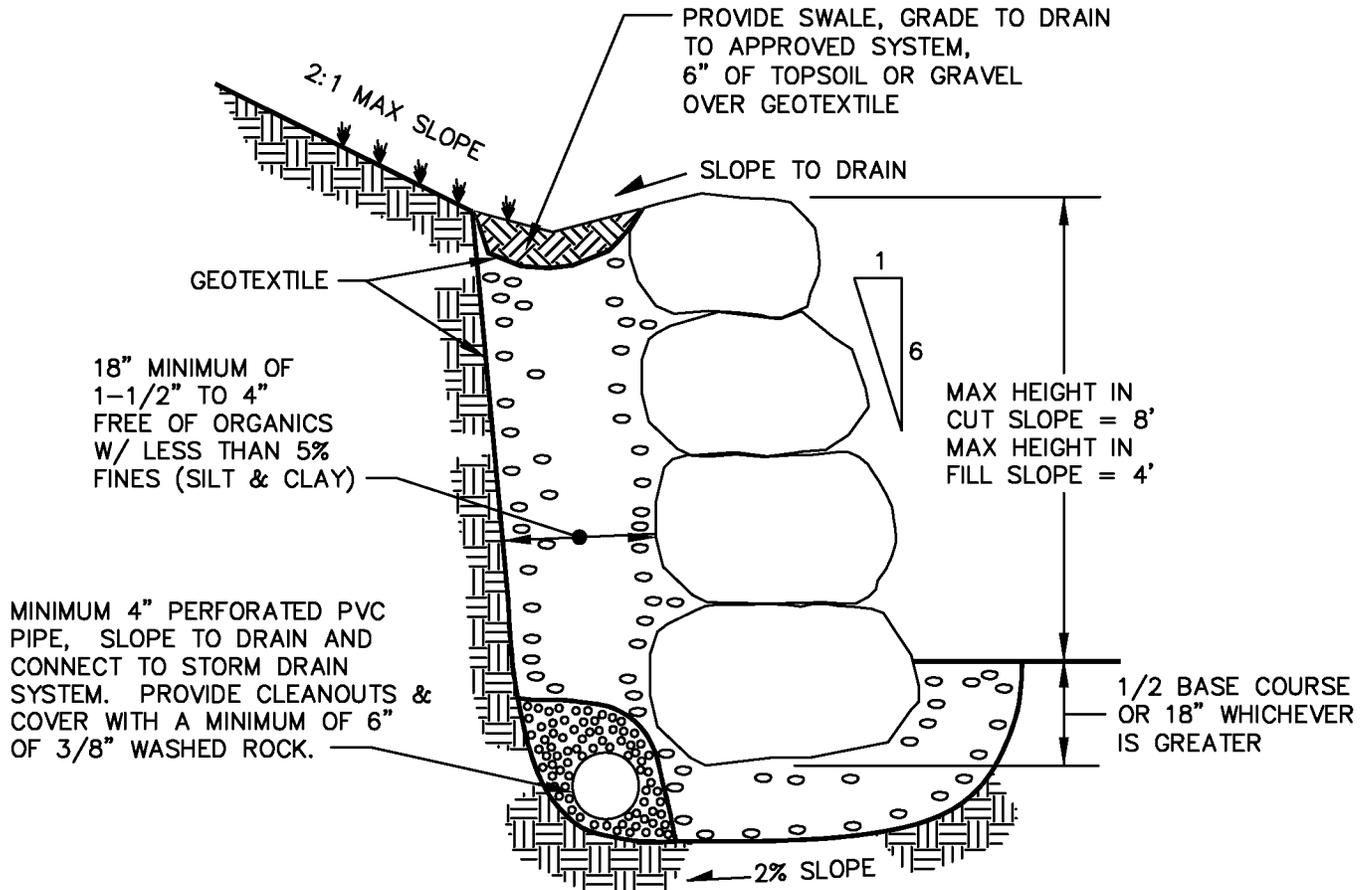


WHEN SIDEWALK IS PRESENT, EDGE OF SIGN SHALL BE LOCATED ADJACENT TO BACK OF SIDEWALK. WHEN THERE IS NO SIDEWALK OR WHEN THERE IS A PLANTING STRIP BETWEEN CURB AND SIDEWALK, EDGE OF SIGN SHALL BE LOCATED 1.5 FEET FROM FACE CURB.

NOTE:

IF SIGN MUST BE PLACED IN EXISTING CONCRETE, CORE HOLE SHALL BE 8" DIAMETER.

CITY OF KIRKLAND	
PLAN NO. CK-R.43	
	STANDARD SIGN INSTALLATION



**NOTES**

1. CALL FOR CLEAR AND GRADE INSPECTION PRIOR TO BASE COURSE BEING PLACED. VERIFICATION OF ROCKERY HEIGHT, FOUNDATION MATERIAL, AND ROCK SIZE BY CITY CLEAR AND GRADE INSPECTOR IS REQUIRED.
2. 4" TO 6" QUARRY SPALLS SHOULD BE PLACED DIRECTLY FROM TRUCK OR OTHER SUITABLE CONTAINER IN ORDER TO MAINTAIN CLEAN BACKFILL.
3. SPALLS MAY NOT BE NEEDED AT BASE OF ROCKERY IF NATIVE FOUNDATION MATERIAL IS SUITABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER OR THE CITY CLEARING AND GRADING INSPECTOR.
4. OPENINGS CHINKED WITH QUARRY SPALLS.
5. IF ROCKERY HEIGHT EXCEEDS 4', IT MUST BE DESIGNED BY A PRACTICING GEOTECHNICAL/ CIVIL ENGINEER LICENSED IN THE STATE OF WASHINGTON. NO ROCKERY SHALL BE GREATER THAN 8' IN HEIGHT UNLESS APPROVED BY CITY.
6. A ROCKERY GREATER THAN 4' IN HEIGHT AND ON PRIVATE PROPERTY SHALL REQUIRE A BUILDING PERMIT TO BE CONSTRUCTED.

CITY OF KIRKLAND	
PLAN NO. CK-R.52	
	ROCKERY WALL (RIGHT-OF-WAY AND PRIVATE ACCESS ROAD USE ONLY)

## **CITY OF KIRKLAND**

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### **DEPARTMENT OF PUBLIC WORKS PRE-APPROVED PLANS POLICY**

#### **Policy G-2: NON-SLIP COVERS FOR ALL UTILITIES IN PEDESTRIAN AREAS**

Catch basin and j-box solid covers shall have non-slip covers when placed in sidewalks, pathways, crosswalks, or other pedestrian use areas. The non-slip surface shall be a non-grit, metallic alloy surface with a hardness of up to 62 on the Rockwell "C" scale, SlipNOT or equal. Diamond or checker plate surfaces are not considered equal.

Manhole covers shall have non-slip low profile tread when placed in sidewalks, pathways, crosswalks, or other pedestrian use areas.

CITY OF KIRKLAND

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DEPARTMENT OF PUBLIC WORKS  
PRE-APPROVED PLANS POLICY

Policy R-3: GUIDELINES FOR TRAFFIC ISLANDS<sup>1</sup>

<b>Visibility</b>	
<i>Signs</i>	Generally follow section 2B-28 of the MUTCD. Use R4-7 KEEP RIGHT signs near the ends of islands. Where there are groups of islands, a single sign at the end of each end of the group is adequate. Intermediate signs may be necessary if a group is intersected by a collector or arterial. When islands are more isolated, signs are placed in the end of each island. Islands such as pedestrian islands that already have a sign near their ends do not need KEEP RIGHT signs. Signs should be placed upstream of any trees on island that would otherwise block driver's views to the signs.
<i>Paint</i>	Yellow traffic paint is placed on the ends of islands. Glass beads are hand cast on the paint to enhance reflectivity. Painting is currently done annually.
<i>Reflectors</i>	Reflectors are normally installed on the pavement in front of islands.
<i>Lighting</i>	No special lighting need be provided simply because an island is installed.
<b>Other Elements</b>	
<i>Placement</i>	Islands are placed on Collectors and Arterials wherever possible. Driveways are not generally closed unless there is a crash problem. A minimum storage of 40 feet is provided for private driveways and the amount of storage provided at multifamily, office and commercial driveways may be greater depending on the driveways' expected left turning volumes. At T-Intersections, islands located on arterial streets should be placed at least 50 feet to the left of the intersecting street. This distance is measured from the island nose to center of the intersecting street. Island ends should be shaped with consideration for, among other things, access and to minimize the need to sweep them by hand.
<i>Size</i>	AASHTO "Green Book" policies should be followed in the sizing of islands. Islands should be at least 100 ft <sup>2</sup> in area. A "shy" distance of at least 12 inches should be provided between the island and edge of the traveled way.
<i>Curb Type</i>	Curbs should be extruded concrete. A desirable section has a base of 10 inches, a top of 5 inches, and is 6 inches tall. Mountable curb is acceptable in special circumstances.
<i>Sight Distance</i>	Stopping sight distance should be available for drivers approaching the island to see a pedestrian entering the roadway. Provision of sight distance may be the control for the type and amount of landscaping that is provided.
<i>Trees, Sod, &amp; Irrigation</i>	Trees and sod should be in each island where appropriate. Trees should not be installed if their presence reduces the safe and reasonable sight distance. Tree type should be selected from an accepted list based on the location and type of island. Tree canopies should be at least 7' above the pavement and installed following Kirkland Pre-approved Plans. When islands are built on existing pavement, underlying pavement should be removed to provide appropriate drainage based on the soil type, tree type and topography of the island surface. All islands with sod and trees should be provided with irrigation that uses standard parts.

<sup>1</sup> The term island is used to refer to both islands and medians.

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DEPARTMENT OF PUBLIC WORKS  
PRE-APPROVED PLANS POLICY

Policy R-19: CURB PAINTING: AUTHORIZATION FOR PAINTINGS BY  
ADJACENT PROPERTY OWNERS

Initiated December 2008

Background: Public Works receives routine requests to have curbing painted red to designate 'no parking zones'. Many of these requests are for on-street safety situations. Examples are:

- Requests for painting 5 feet on each side of a driveway to remind motorists not to park too closely to the driveway. Such parking is already illegal and enforceable, but some residents want the red paint as a reminder.
- Requests to prohibit parking in front of mailboxes to ensure mail delivery.

The number of painted curbs has grown over the years to the point where City Maintenance Crews are hard-pressed to maintain them. The budget cuts for 2010/2011 significantly reduced the City's ability to maintain existing and paint new 'no parking zones' by reducing funds for seasonal summer laborers.

To address the on-going needs for 'no parking' zones that are not safety-related, a procedure was developed whereby the City would give residents or property owners authorization, with specific conditions, to paint the curbs abutting their property.

Attached is a letter that provides the format for the authorization to paint and maintain the curbs.

This service would be managed by the Neighborhood Traffic Control Coordinators.

December 10, 2012

**“DATE”**

**“Addressee”**

Kirkland, Washington 98034

**Subject: Red Curb Painting Authorization for “Fill in Address”, Kirkland, WA**

This letter authorizes you to paint the curb red on either side of the driveway for **“fill in the address”** for the lengths shown on Figure 1. Authorized red curb length shall begin at the Edge of Driveway as shown in Figure 2. You will be required to remove excess red curb.

This red curb authorization is in accordance with the attached policy R-19, subject to the conditions listed in this authorization and authorized for the above-described segments. Please retain this letter as proof of the City’s authorization.

**Conditions:**

1. Standard, water-based red curb marking paint (called Red Zone Marking Paint) must be used for painting red curb. This is available at Miller Paint Company at 12631 NE 85<sup>th</sup> St in Kirkland.
2. The City of Kirkland will not maintain these paint markings. Maintenance of red curb will be solely your responsibility.
3. This authorization does not expire unless the City of Kirkland revokes it. The City reserves the right to revoke the authorization at any time.
4. The City does not warrant that motorists will comply with it, but it is officially approved and as enforceable as if City crews had done the painting. For enforcement, please contact the police at non-emergency 911 number (425) 577-5656 or [police@kirklandwa.gov](mailto:police@kirklandwa.gov).

Please let me know when you have painted the red curb, and I will field check and sign off. If you have any questions regarding this authorization, please contact me at (425) 587-3870 or [krobertson@kirklandwa.gov](mailto:krobertson@kirklandwa.gov).

Sincerely,  
PUBLIC WORKS DEPARTMENT

**“fill in name”**

Neighborhood Traffic Control Coordinator

**Figure 1 – Authorized Red Curb Extents**

Add Plan View or street view showing Red Curb Extents (at specific location).

**Figure 2 – Edge of Driveway for Red Curb**



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**DEPARTMENT OF PUBLIC WORKS  
PRE-APPROVED PLANS POLICY**

**Policy R-24: Rectangular Rapid Flash Beacon (RRFB) Installation Policy****RRFB Power Source Determination**

Installation of an RRFB at a mid-block crossing can improve pedestrian safety and comfort. RRFBs have been proven to significantly increase vehicle yield rates at pedestrian crossings, but they can only do this when they are installed and functioning properly.

In order to maximize dependability and reduce ongoing maintenance cost the City prefers that RRFBs be installed with a direct AC power connection. There are instances where there is a need to install a RRFB but providing an AC power connection would make the location cost-prohibitive. In these cases DC (solar) powered RRFBs may be used. The following criteria should be used when determining if a DC (solar) powered RRFB is acceptable.

Table 1: RRFB Power Source Determination

Access to Power	Solar Exposure	
	Inadequate	Adequate
≤ 50'	AC	AC
> 50'	AC	DC (solar)

**NOTE:**

The location of RRFBs will be determined based on its effectiveness to provide a benefit to pedestrians crossing at the crosswalk. The RRFBs will not be located based solely on optimizing access to power.

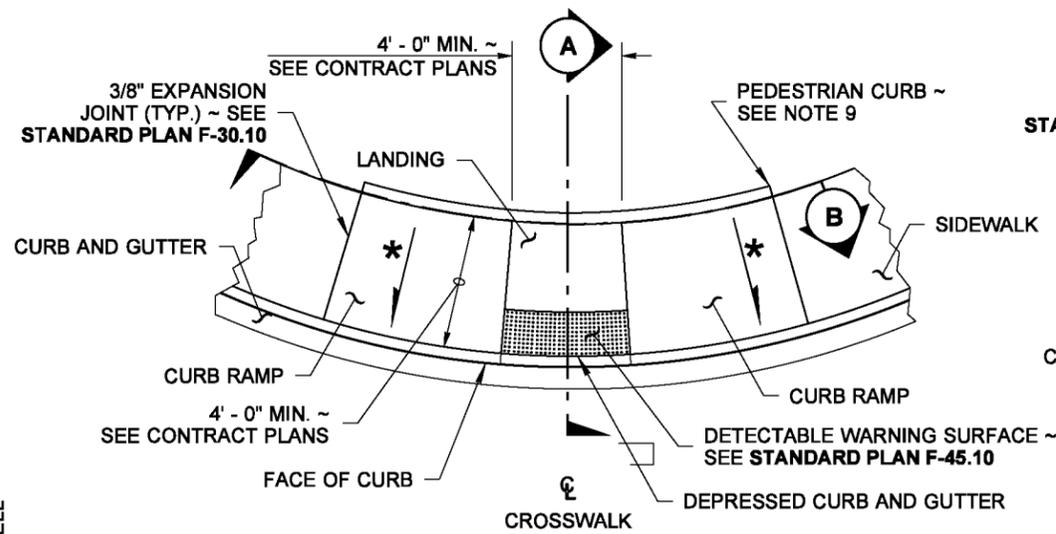
**RRFB Component List**

ID #	Component	Item	# needed
<b>FOUNDATION</b>			
1	Bolt Cage	Pelco AP-1095-GLV	1 per pole
2	Foundation - WSDOT Plans: J-21.10-04 (non-curb mount *) J-20.11-02 (curb mount *)	Per Design	Per Design
<b>STRUCTURE</b>			
3	Pole Base with Collar	Pelco PB-5334 + PB-5325 (base + collar)	1 per pole
4	Pole (12' length for AC) (16' length for Solar)	Pelco - Spun Alum. Pole, Sch 40, PB-5100	1 per ea
5	J-Box w/conduits	Type 1 J-Box (Non-Skid in Sidewalk)	2 (one each for AC/ Solar unless existing box meets code.)

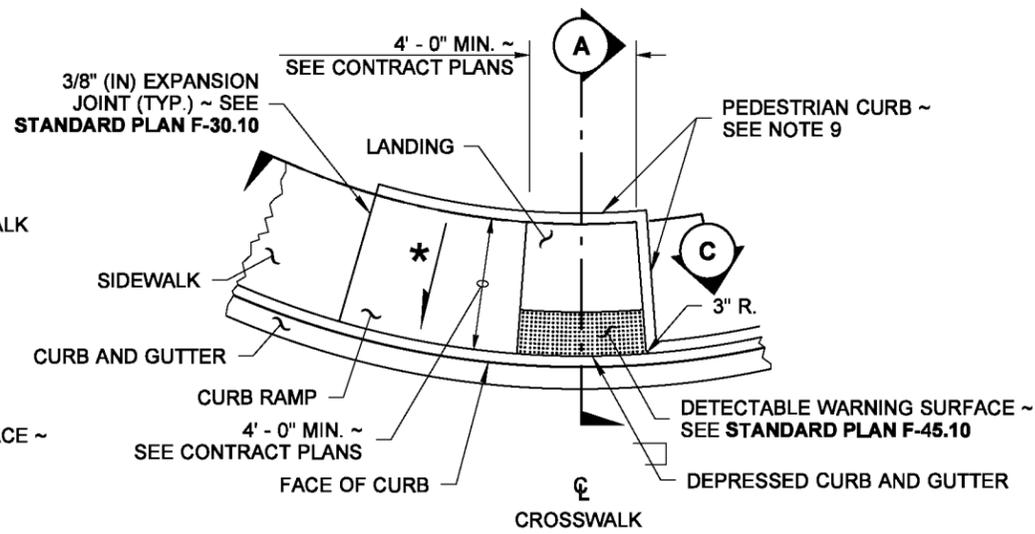
ID #	Component	Item	# needed
<b>RRFB COMPONENTS</b>			
6	Electronics Cabinet **	Slimline 100 Cabinet	1 per unit
7	Electronics Cabinet Mount	Eltec Pole Mount	1 per cabinet
8	Flashing Light Heads (4 lights per unit) <ul style="list-style-type: none"> <li>• verification lights case by case - check with PW-Traffic Eng.</li> </ul>	Eltec RRFB (Whelen light heads)	1 unit per pole
9	Flashing Light Heads Enclosure	Eltec RRFB Pole Mount Light Enclosure	1 unit per pole
10	Flasher	Eltec FS-3 Flasher	1 per unit
11	Photocell	Silonex TO-5 Photocell	1 per unit
12	Timer	Crouzet Timer PU2R4	1 per unit
13	Toggle Switch (for putting system into flash mode manually)	(sized for application)	1 per unit
<b>POWER – SELECT DC (SOLAR) or AC (HARDWIRE)</b>			
<b>DC (SOLAR) POWER</b>			
14.DC	Solar Power Panel	Kyocera Solar Panel	1 per unit
15.DC	Solar Panel Mount (Pole Top Style)	Eltec Top Pole Mount	1 per unit
16.DC	Battery	UPG - UB121000 Battery	1 per unit
17.DC	Charge Controller	ProStar Charge Controller (PSM-15 or PSM-30 depending on No. of solar panels)	1 per unit
18.DC	Power cable for AC systems	Belden Part No. 601765 Cable	Varies depending on site distances
<b>AC (HARDWIRE) POWER</b>			
14.AC	Power Source (Determine Source for Project)	Meter head or Service cabinet (100A or 200A TBD)	1 Service
15.AC	Breaker for RRFB Cabinet (10A)	(Per Designer spec)	1 per System
16.AC	Power Supply	TDK-Lambda LS50-12	1 per System
17.AC	Surge Protector	Emerson/Edco SPA-100T	1 per System
18.AC	Power cable for AC systems	Opticon Model 138 Detector Cable	Varies depending on site
<b>PEDESTRIAN PUSH-BUTTONS</b>			
19	Pedestrian Push-Button Station ***	Polara Model XAVE2-LED Push Button Station	1 per unit
20	Pedestrian Push-Button Station Controller	Polara XAVCU2-DC Control Unit for XAV2E-LED Push Button Station	1 per unit

ID #	Component	Item	# needed
21	Remote Pedestrian Push-Button Mount Electrical Connection	8 wire multi-conductor cables/18 AWG Belden 27601A multi-conductor-600V (For remote push button)	Varies depending on site distances
22	Wireless Communication System (if no conduits being installed)	Banner SureCross DX80 gateway and nodes, 900 MHz	Varies (if 2 poles, gateway and node, if 3 poles, add extra node)
<b>SIGNAGE</b>			
23	Pedestrian Crossing Sign (Left Facing Icons) at crosswalks OR	Pedestrian Crossing Sign (Per MUTCD designation: W11-2 or S1-1) Check with PW-Traffic Eng. for crosswalk type.	2 per pole
	Trail Crossing Sign (Left facing icons) at trail crossings	Bicycle/Pedestrian Sign (Per MUTCD designation: W11-15) Check with PW-Traffic Eng. for crosswalk type.	2 per pole
24	Crossing Arrow Sign (Left)	Arrow Sign (Per MUTCD designation: W16-7pL) Check with PW-Traffic Eng. for crosswalk type)	2 per pole
25	Crossing Arrow Sign (Right)	Arrow Sign (Per MUTCD designation: W16-7pR) Check with PW-Traffic Eng. for crosswalk type)	2 per pole
26	Crossing Arrow Sign (Right) (if center island RRFB is used)	Arrow Sign (Per MUTCD designation: W16-7pR) Check with PW-Traffic Eng. for crosswalk type)	2 per pole
27	Advance Pedestrian Crossing Sign (Left Facing Icons)	Pedestrian Crossing Sign (Per MUTCD designation: W11-2 or S1-1) Check with PW-Traffic Eng. for crosswalk type.	1 per pole
28	Advanced Pedestrian Crossing Sign	"AHEAD" Sign (W16-9P)	1 per pole

DRAWN BY: FERN LIDDELL

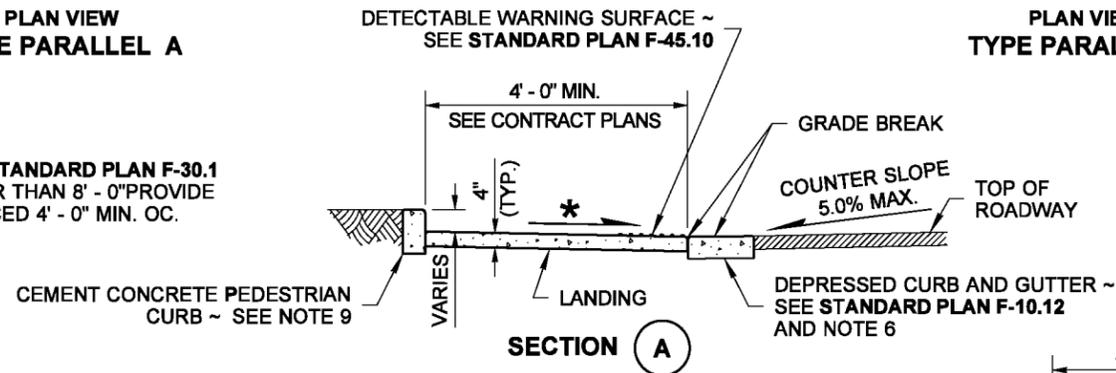


**PLAN VIEW  
TYPE PARALLEL A**

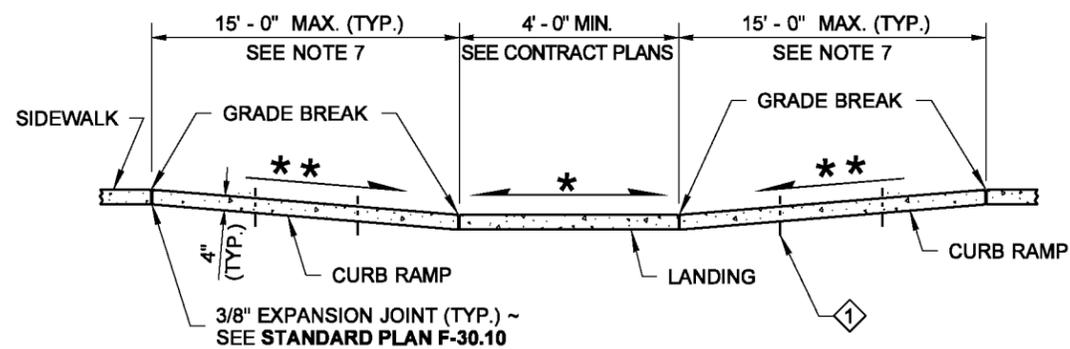


**PLAN VIEW  
TYPE PARALLEL B**

① CONTRACTION JOINT (TYP.) ~ SEE **STANDARD PLAN F-30.1** FOR CURB RAMP LENGTHS GREATER THAN 8' - 0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.



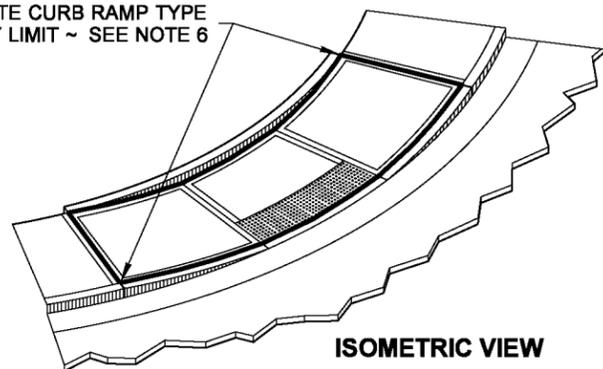
**SECTION A**



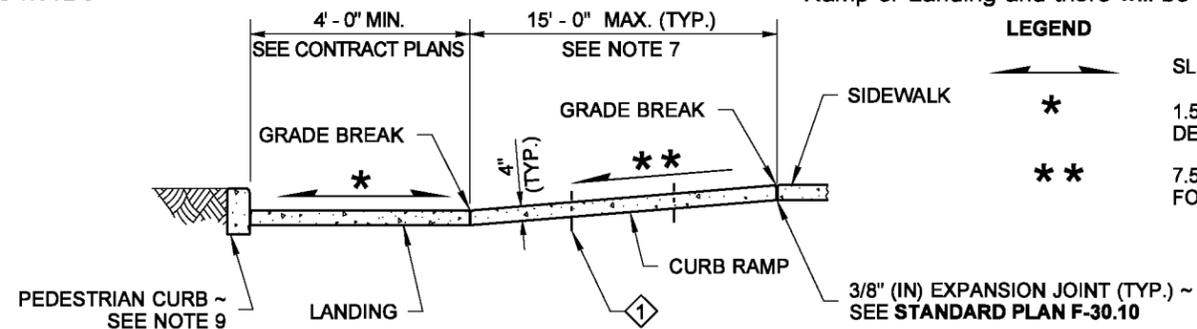
**SECTION B**

(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

"CEMENT CONCRETE CURB RAMP TYPE PARALLEL A" PAY LIMIT ~ SEE NOTE 6



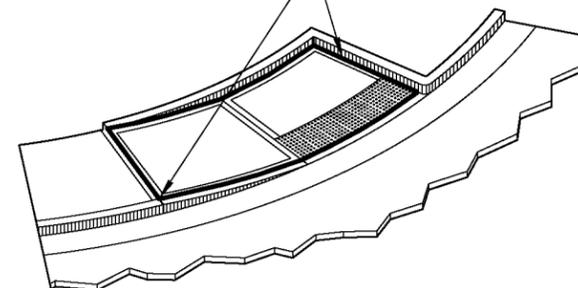
**ISOMETRIC VIEW  
TYPE PARALLEL A PAY LIMIT**



**SECTION C**

(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

"CEMENT CONCRETE CURB RAMP TYPE PARALLEL B" PAY LIMIT ~ SEE NOTE 6



**ISOMETRIC VIEW  
TYPE PARALLEL B PAY LIMIT**

**NOTES**

1. At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type \_\_\_" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the 15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14**.
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.

**LEGEND**

- ↔ SLOPE IN EITHER DIRECTION
- \* 1.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- \*\* 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.) ~ SEE NOTE 7



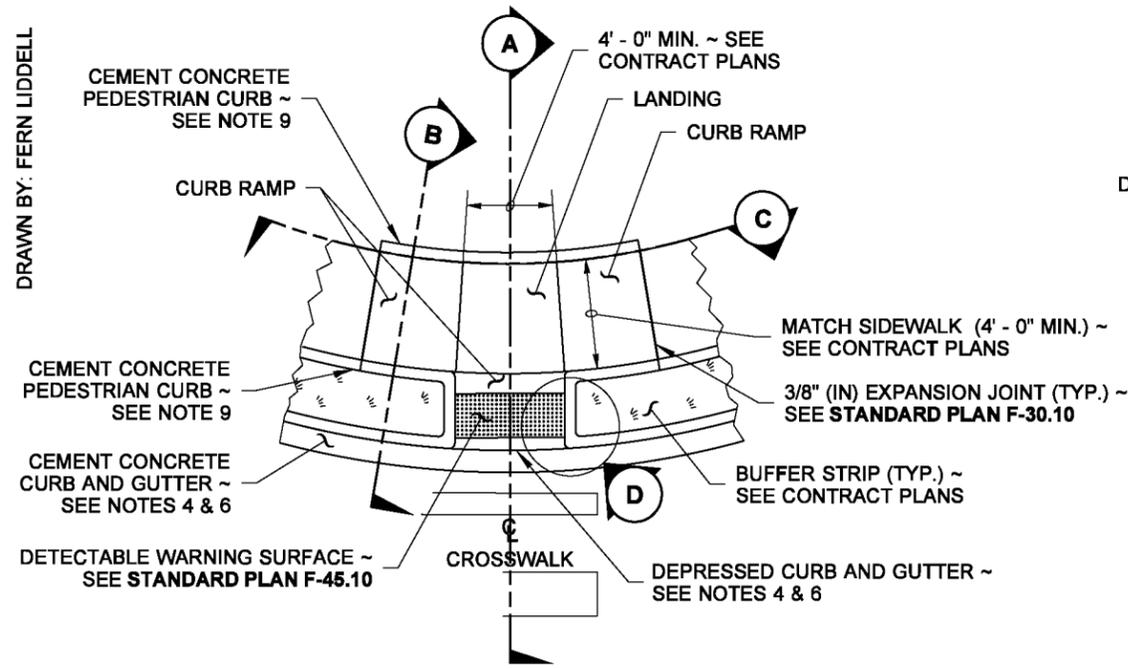
**PARALLEL CURB RAMP  
STANDARD PLAN F-40.12-03**

SHEET 1 OF 1 SHEET

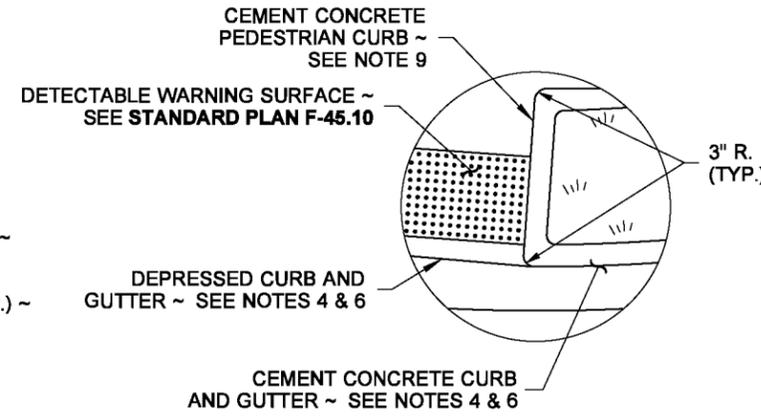
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER  
Washington State Department of Transportation

DRAWN BY: FERN LIDDELL



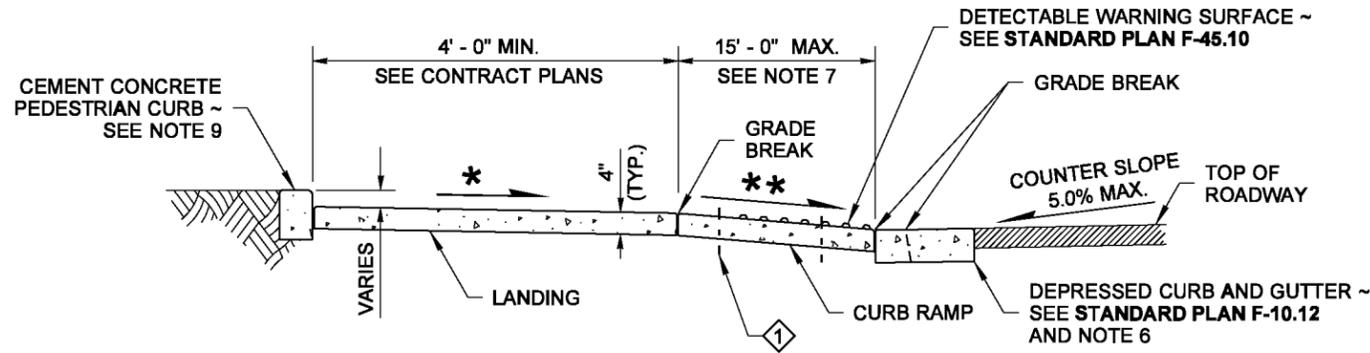
**PLAN VIEW  
TYPE COMBINATION  
WITH BUFFER**



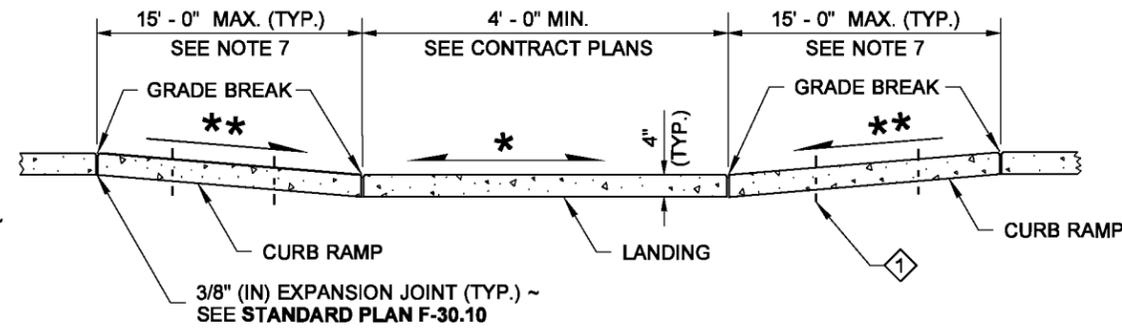
**DETAIL D  
CURB RADIUS DETAIL**

**NOTES**

1. At marked crosswalks, the connection between the curb ramp and the roadway must be contained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the landing connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb, Gutter and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type \_\_\_" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include the abutting landing in the 15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14**.
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.



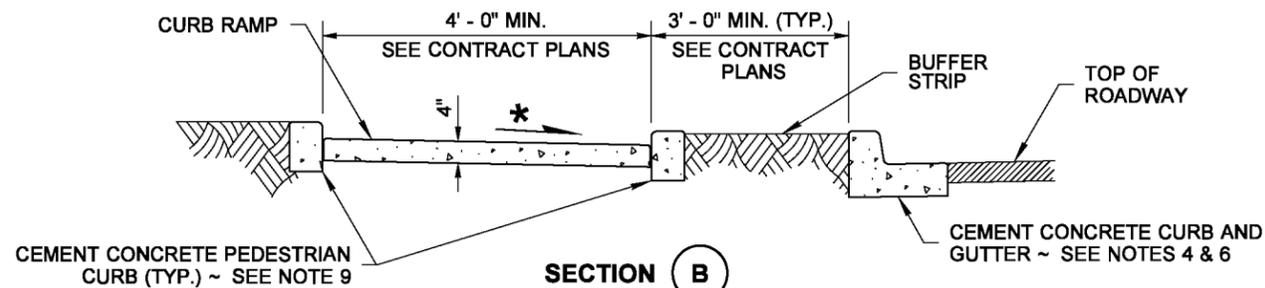
**SECTION A**



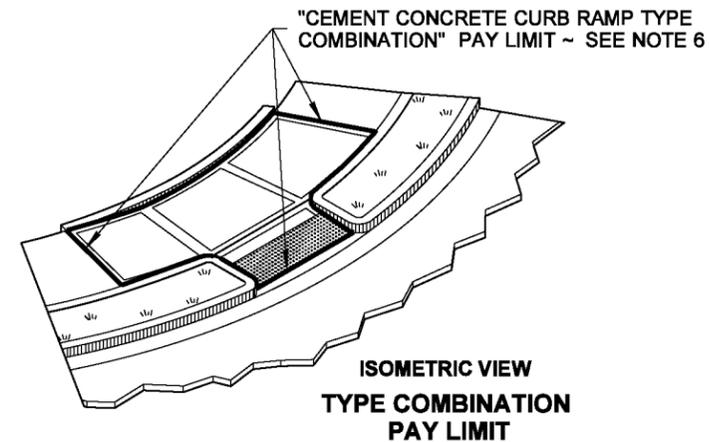
**SECTION C**

(ALONG INSIDE RADIUS AT BACK OF WALKWAY)

① CONTRACTION JOINT (TYP.) ~ SEE STANDARD PLAN F-30.10 FOR CURB RAMP LENGTHS GREATER THAN 8' - 0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC.



**SECTION B**



**ISOMETRIC VIEW  
TYPE COMBINATION  
PAY LIMIT**

**LEGEND**

- SLOPE IN EITHER DIRECTION
- \* 1.5 OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- \*\* 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.)

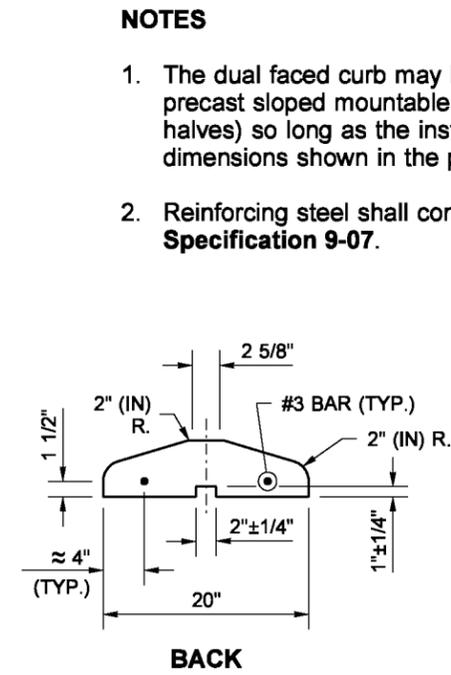
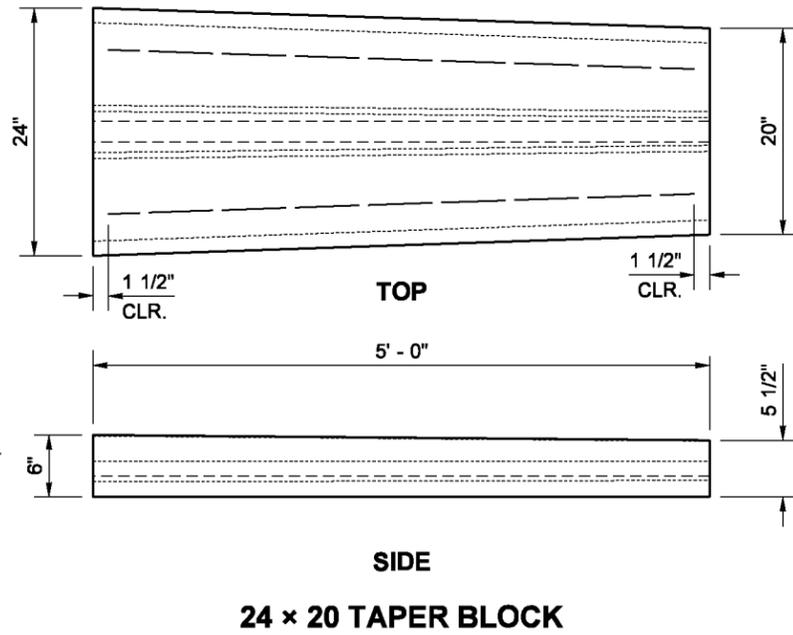
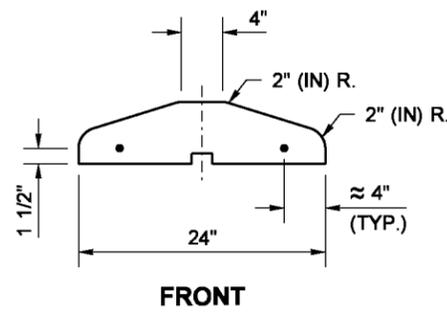


**COMBINATION CURB RAMP  
STANDARD PLAN F-40.14-03**

SHEET 1 OF 1 SHEET

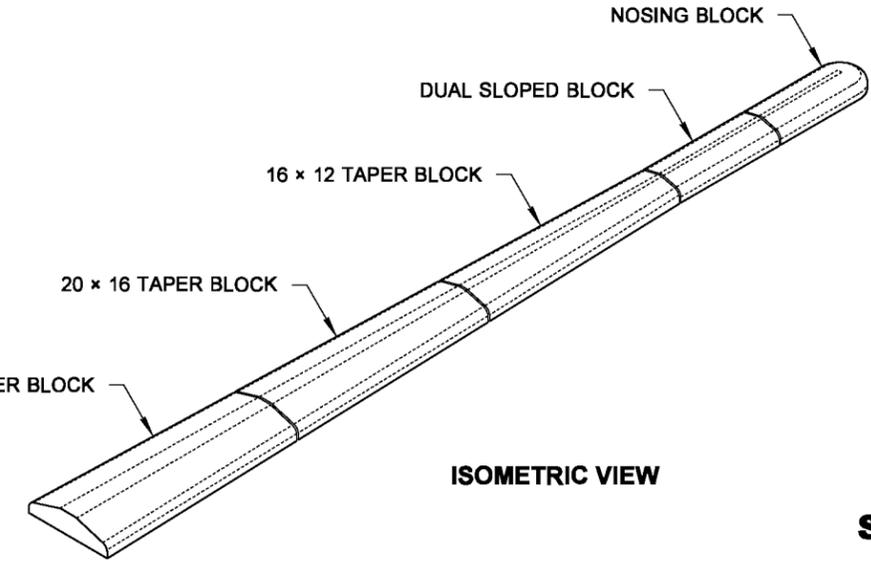
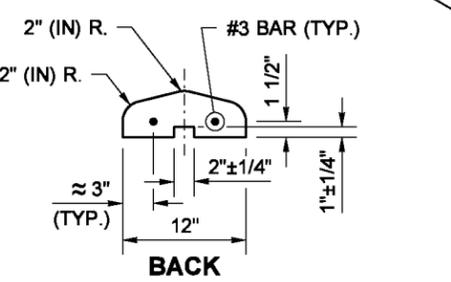
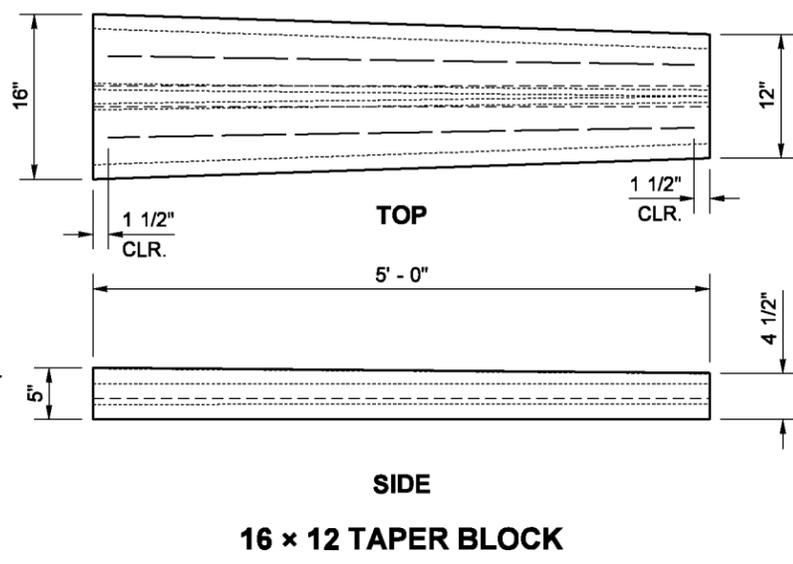
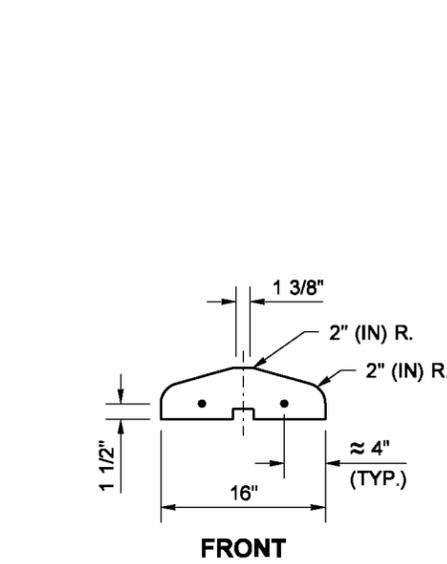
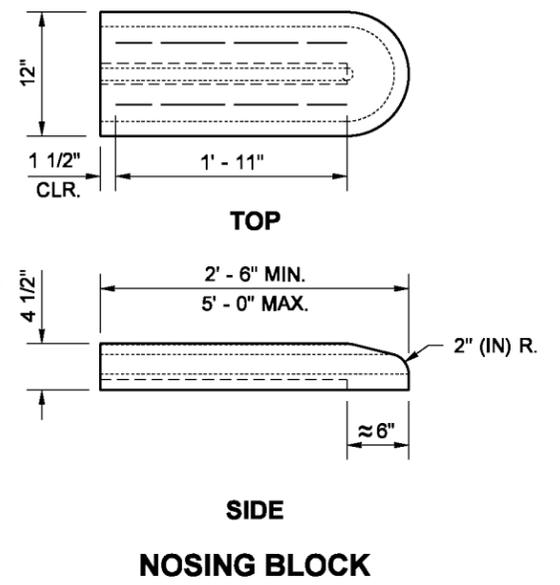
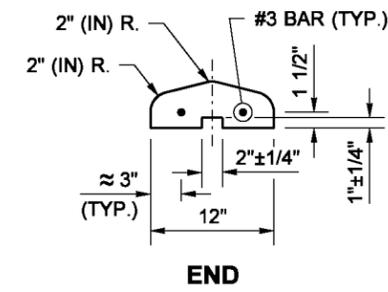
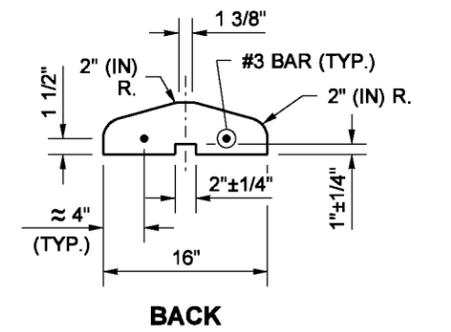
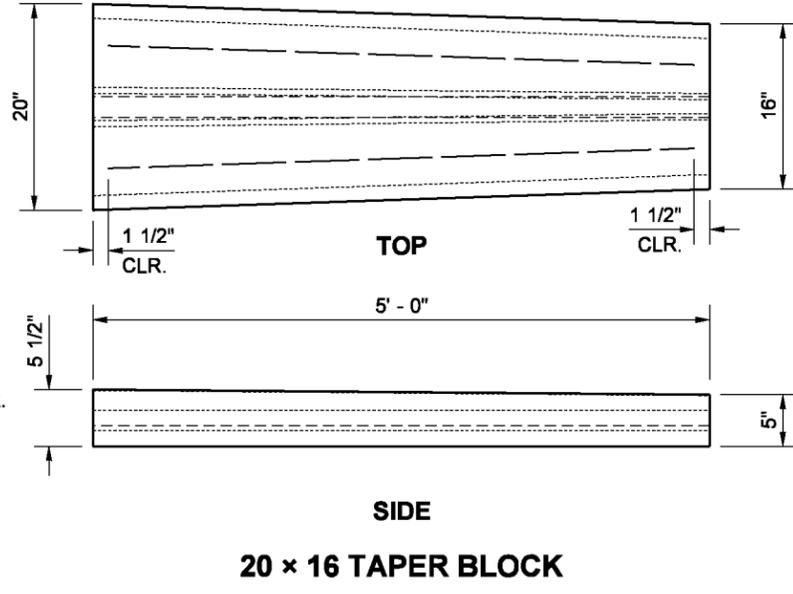
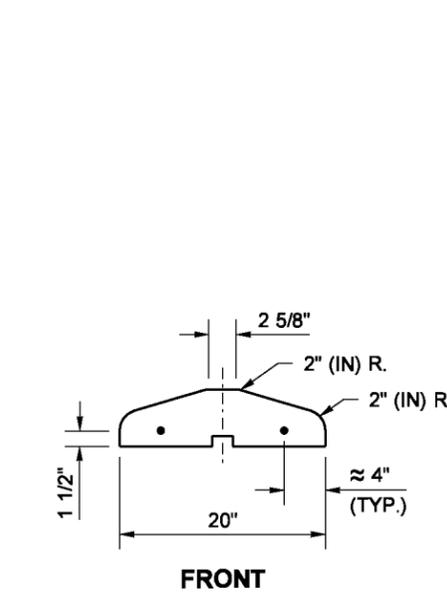
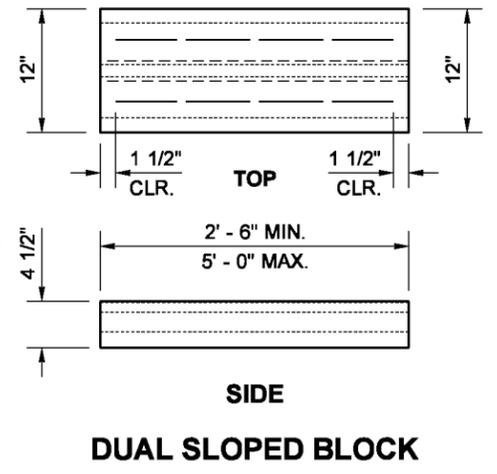
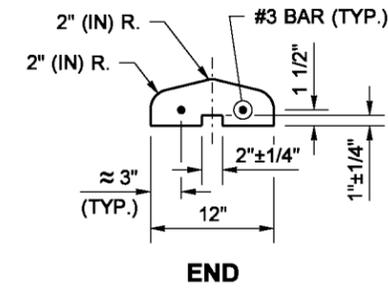
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER  
Washington State Department of Transportation



**NOTES**

1. The dual faced curb may be constructed by using two precast sloped mountable curbs (longitudinal halves) so long as the installation is consistent with the dimensions shown in the plan.
2. Reinforcing steel shall conform to **Standard Specification 9-07**.



**PRECAST DUAL FACED SLOPED MOUNTABLE CURB STANDARD PLAN F-10.64-03**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

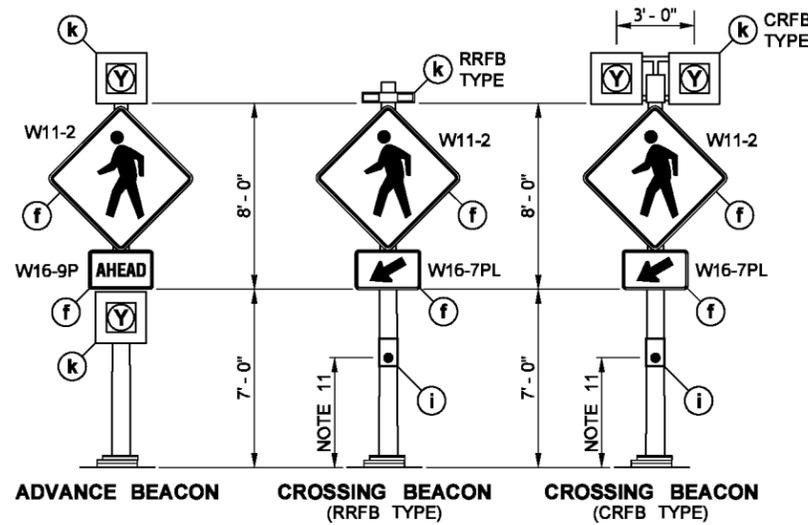
**SIGNAL STANDARD IDENTIFICATION TAG DETAIL**

STD. NO. XX	STANDARD NO.	STD. NO. 02
SRXXX MP XXX.XX	ROUTE AND MILEPOST NO.	SR97 MP 071.24
MANUFACTURER	MANUFACTURER	POLEMAKER
(DWG.) NO. XXXXXX	APPROVED DRAWING NO.	(DWG.) AB12345
FAB. XX/XX/XXXX	FABRICATION DATE	FAB. 4/1/2017

EXAMPLE

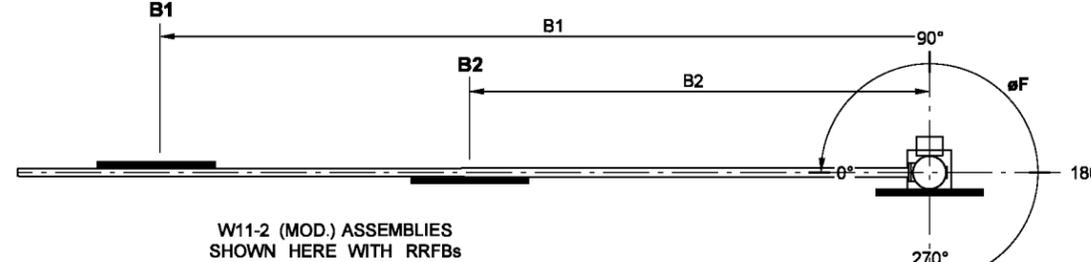
CIRCULAR SIGNAL DISPLAY MOUNT TYPES	LOCATION	CONFIGURATION	TYPE	STD. PLAN
POLE TOP	SINGLE	D	J-75.10	
	DOUBLE	F		
POLE SIDE	SINGLE	K		
	DOUBLE	H		
OVERHEAD	SEE DETAIL			

SIGN CODE	SIGN SIZE		SHEETING TYPE
	≤ 35 MPH	≥ 40 MPH	
W11-2 (MOD.)	54 x 60		IX OR XI
W11-2	36 x 36	48 x 48	
W16-7PL	18 x 36	18 x 36	III OR IV
W16-9P	18 x 36	18 x 36	

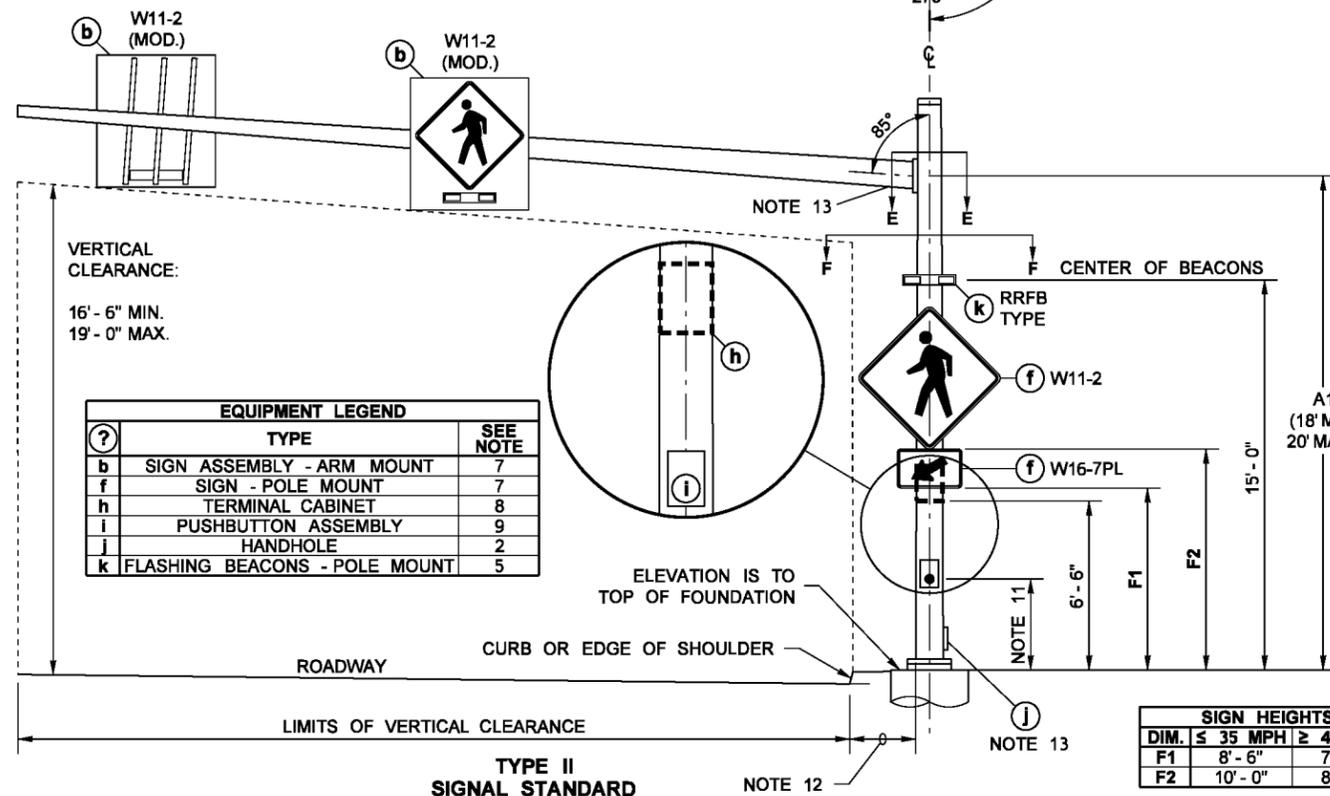


**TYPE FB SIGNAL STANDARDS**  
(SEE SHEET IS-22 FOR ADDITIONAL DETAILS)

**EQUIPMENT OFFSETS AND ATTACHMENT ANGLES**

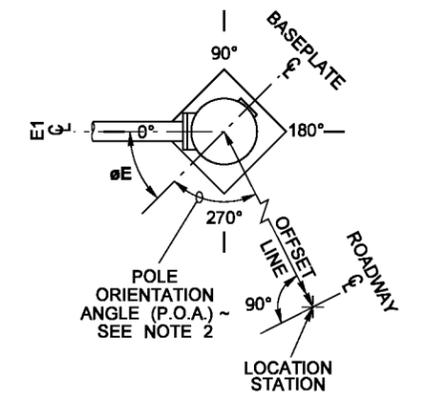


W11-2 (MOD.) ASSEMBLIES SHOWN HERE WITH RRFBs

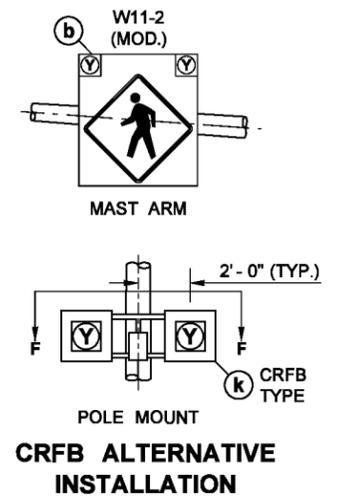


?	TYPE	SEE NOTE
b	SIGN ASSEMBLY - ARM MOUNT	7
f	SIGN - POLE MOUNT	7
h	TERMINAL CABINET	8
i	PUSHBUTTON ASSEMBLY	9
j	HANDHOLE	2
k	FLASHING BEACONS - POLE MOUNT	5

SIGN HEIGHTS		
DIM.	≤ 35 MPH	≥ 40 MPH
F1	8'-6"	7'-0"
F2	10'-0"	8'-6"



**POLE ORIENTATION AND E1 ATTACHMENT POINT DETAIL**



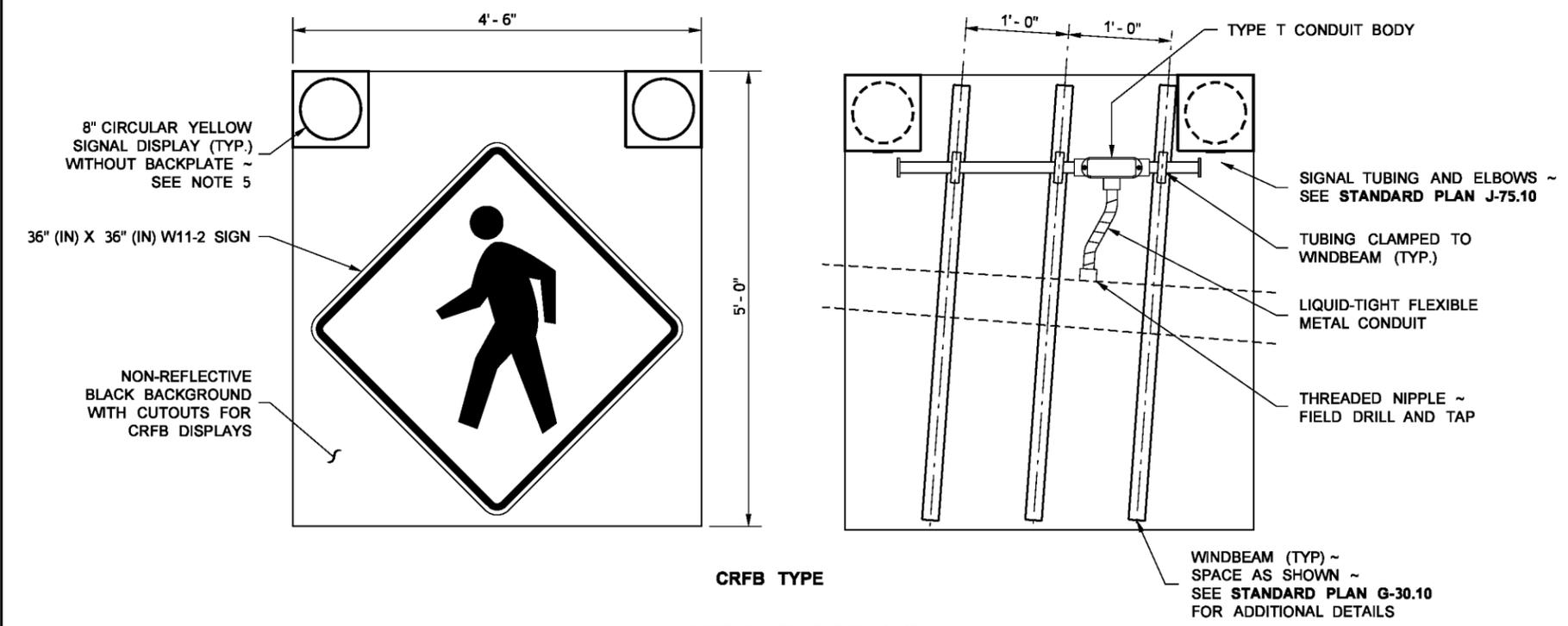
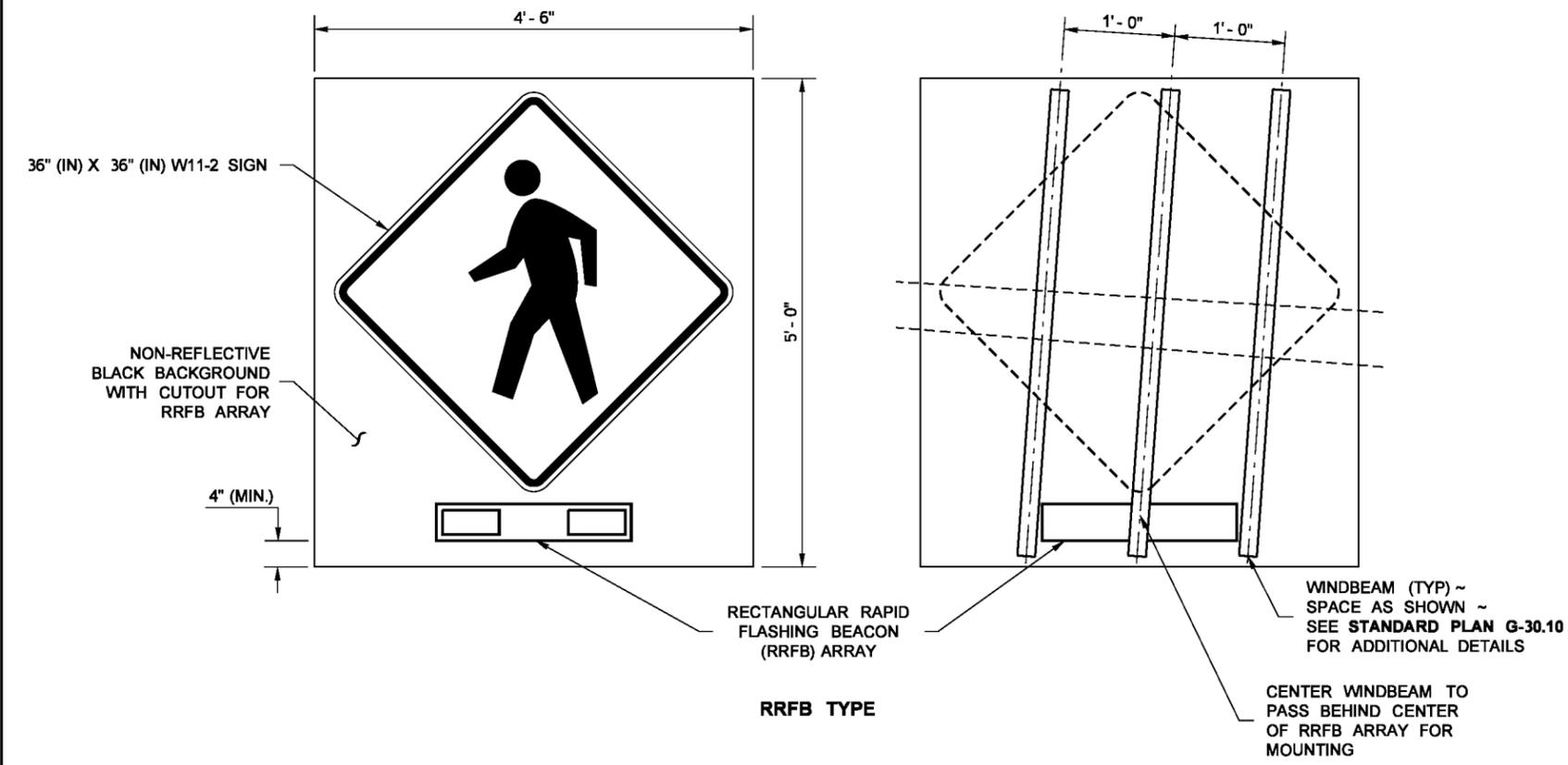
**SIGNAL STANDARD DETAIL CHART**

STD. No.	SR No.	SR MILE POST	FIELD LOCATION						POLE TYPE	MOUNTING HEIGHT (FT)	SIGNAL MAST ARM DATA				CALCULATED POLE XYZ (FT <sup>3</sup> )	ATTACHMENT POINT ANGLES (DEGREES)		FOUNDATION DESIGN XYZ (FT <sup>3</sup> )	SOIL BEARING PRESSURE (PSF)	FOUNDATION DEPTH (FT)					REMARKS
			STATION	OFFSET	LT.	RT.	ELEV. *	P.O.A.			OFFSETS (FT) (Z)		WINDLOAD AREAS (FT <sup>2</sup> ) (X)(Y)			E	F			ALTERNATE 1		ALTERNATE 2			
											B1	B2	B1	B2						3' RD.	3' SQ.	4' RD.	3' RD.	4' RD.	
0	000	000.00	000+00	000	X	X	000.00	000	II	19	00	00	22.5	22.5	0000	0	000	0000	0000	00	00	00	00	00	SAMPLE TEXT

\*ELEVATION IS TO TOP OF FOUNDATION. FIELD VERIFY ELEVATION PRIOR TO ORDERING SIGNAL STANDARDS.

SEE SHEET 2 FOR NOTES AND OVERHEAD SIGN ASSEMBLY DETAILS

FILE NAME: E:\PLUS-13\IS-13B.DGN	TIME: 2:19:49 PM	DATE: 8/15/2018	PLOTTED BY: liddelf	DESIGNED BY:	ENTERED BY:	CHECKED BY:	PROJ. ENGR.	REGIONAL ADM.	REVISION	DATE	BY	REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	JOB NUMBER	CONTRACT NO.	LOCATION NO.	DATE	P.E. STAMP BOX	DATE	P.E. STAMP BOX	Washington State Department of Transportation	Plot 1	PLAN REF NO IS-13B	SHEET 1 OF 2 SHEETS
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**OVERHEAD SIGN AND BEACON ASSEMBLY DETAILS**

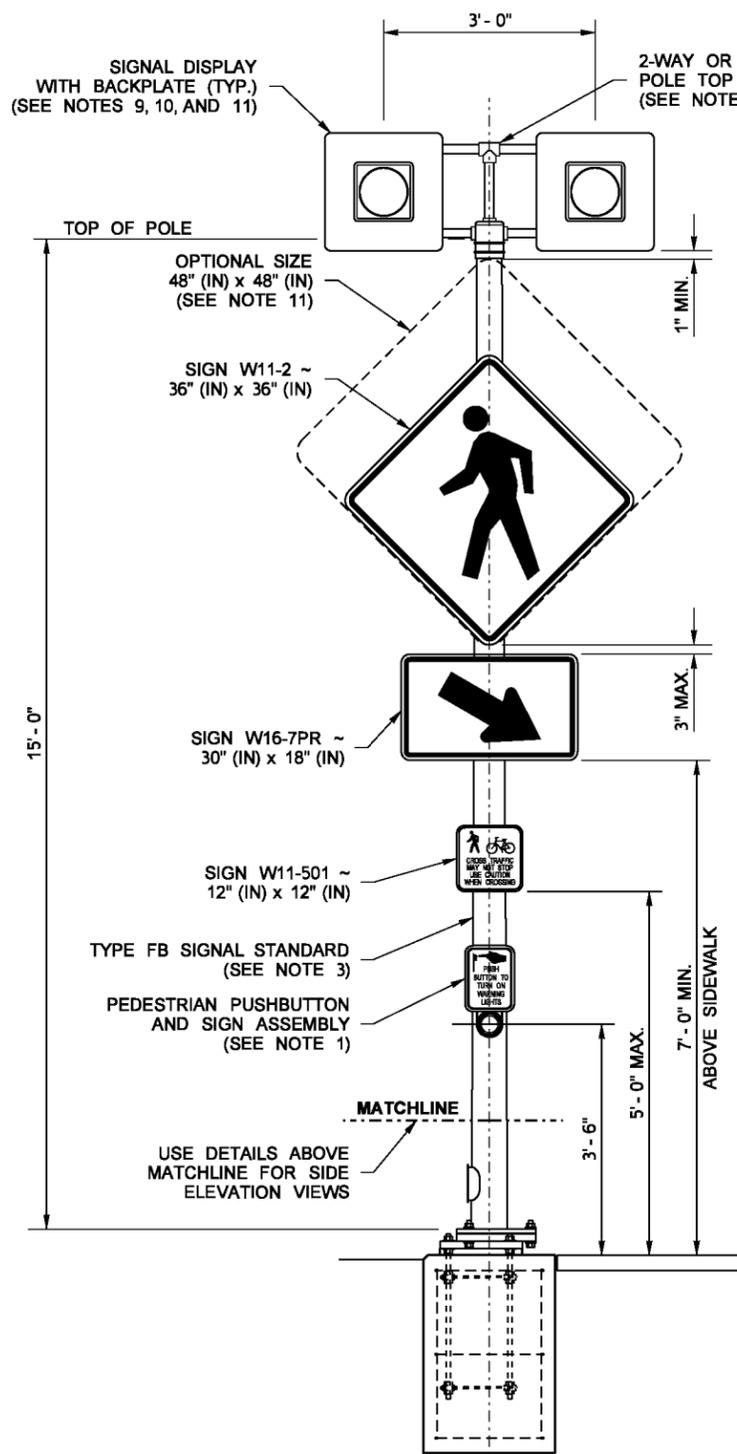
**RFB SYSTEM NOTES:**

1. MAST ARM LENGTH SHALL NOT EXCEED 45 FT WITHOUT APPROVAL FROM HQ TRAFFIC AND BRIDGE OFFICES. MAST ARMS SHALL NOT HAVE TENONS INSTALLED. WIRING ACCESS FOR RRFBs SHALL BE FIELD DRILLED AND USE RUBBER GROMMETS AND DRIP LOOPS.
2. POLE ORIENTATION ANGLE IS MEASURED BETWEEN STATION OFFSET LINE AND THE CENTER OF THE BASEPLATE FRONT. THE POLE HANDLE IS ALWAYS AT THE BACK OF THE BASEPLATE (180° ON BASEPLATE).
3. STREET NAME SIGNS SHALL NOT BE INSTALLED ON THE SIGNAL STANDARDS.
4. B1 AND B2 SHALL BE CENTERED OVER THEIR RESPECTIVE APPROACH THROUGH LANES.
5. ALL CIRCULAR DISPLAYS SHALL BE SINGLE SECTION YELLOW LED WITH CAP VISORS. OVERHEAD DISPLAYS SHALL BE 8" (IN) DIAMETER WITH 5 INCH BACKPLATES. FOR POST MOUNTED DISPLAYS, 36" (IN) X 36" (IN) W11-2 SIGNS REQUIRE 8" (IN) DISPLAYS; 48" (IN) X 48" (IN) W11-2 SIGNS REQUIRE 12" (IN) DISPLAYS. SEE SIGNAL DISPLAY MOUNT TYPE TABLE FOR MOUNT TYPES.
6. CRFB HOUSINGS, VISORS, AND BACKPLATES SHALL BE ALUMINUM. BACK PLATES SHALL NOT HAVE RETRO REFLECTIVE TAPE.
7. SEE STANDARD PLAN G-30.14 FOR SIGN MOUNTING DETAILS. MAST ARM MOUNTED SIGNS SHALL USE A MINIMUM OF THREE WIND BEAMS. SEE SIGN SPECIFICATION TABLE FOR SIGN SIZES AND SHEETING.
8. TERMINAL CABINET SHALL BE INSTALLED 180° FROM THE POLE MOUNTED SIGNS.
9. PUSHBUTTON ASSEMBLIES SHALL BE FIELD ORIENTED RELATIVE TO THE CROSSWALK AND LEVEL CLEAR SPACE.
10. POLE MOUNTED DISPLAYS AND SIGNS SHALL BE FIELD ORIENTED TOWARDS APPROACHING TRAFFIC, AND MUST BE 2'-0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER.
11. CENTER OF BUTTON SHALL BE 3'-6" AS MEASURED FROM THE WALKING SURFACE.
12. FACE OF POLE MUST BE SET BACK AS FOLLOWS:
  - a. 2'-0" MIN. FROM FACE OF CURB OR EDGE OF SHOULDER.
  - b. 3'-0" MIN. FROM FACE OF GUARDRAIL.
  - c. 4'-0" MIN. FROM ROADSIDE TOE OF TYPE 2 CONCRETE BARRIER
13. POLE TAGS SHALL BE CORROSION RESISTANT METAL AND SECURED WITH TWO 0.125" (IN) RIVETS WITH 3/16" (IN) MIN. STAMPED OR EMBOSSED TEXT. VERTICAL POLE TAGS SHALL BE INSTALLED WITHIN 6" (IN) ABOVE THE TOP OF THE HAND HOLE. MAST ARM TAGS SHALL BE INSTALLED WITHIN 6 INCHES OF THE ARM ATTACHMENT POINT.

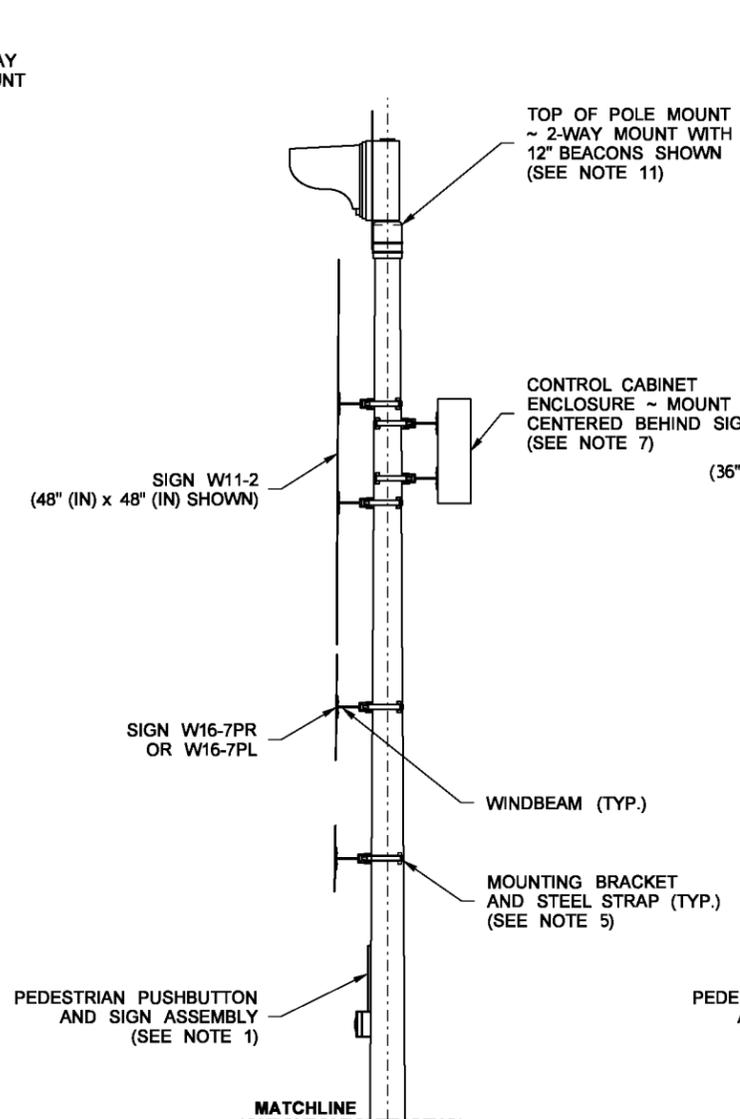
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DESIGNED BY					JOB NUMBER		DATE
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PROJ. ENGR.							
REGIONAL ADM.	REVISION	DATE	BY				



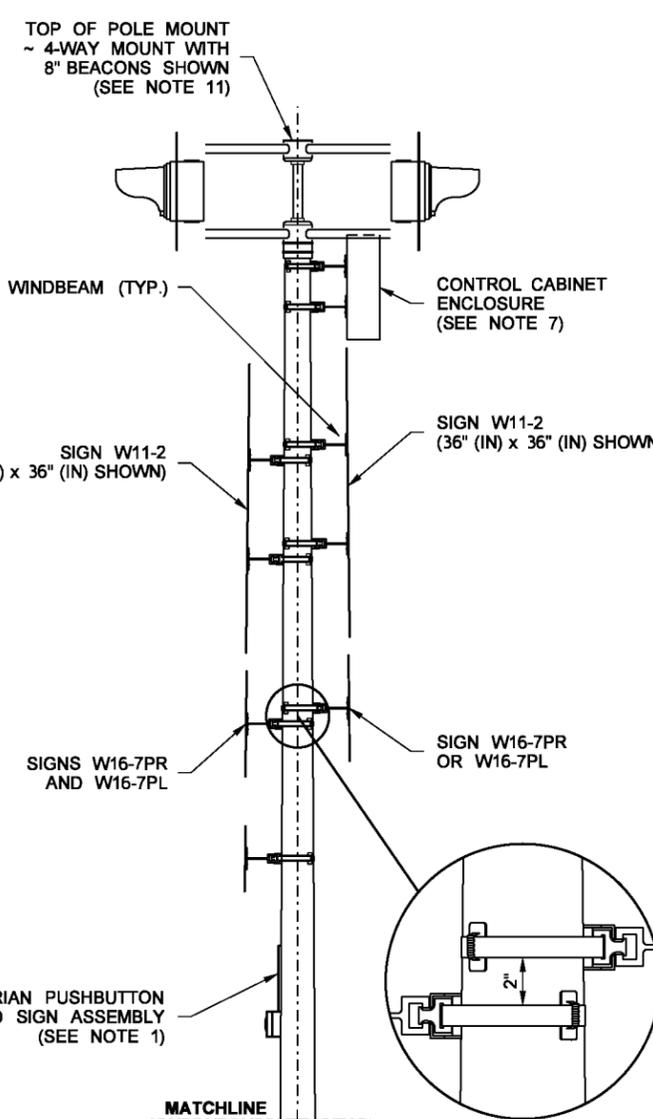
Plot 2
PLAN REF NO
IS-13B
SHEET 2 OF 2 SHEETS
<b>RFB SYSTEM SUPPORT DETAILS</b>



FRONT ELEVATION VIEW  
**RAPID-FLASHING BEACON**  
 SLIP BASE AND CONCRETE SQUARE  
 FOUNDATION SHOWN (SEE NOTES 2 & 4)



SIDE ELEVATION VIEW  
 UNI-DIRECTIONAL CONFIGURATION  
 DETAILS



SIDE ELEVATION VIEW  
 BI-DIRECTIONAL CONFIGURATION  
 DETAILS



W11-501  
 (12" x 12")

PEDESTRIAN SYMBOL HEIGHT - 4" (IN)  
 BICYCLE SYMBOL HEIGHT - 3" (IN)  
 LETTERS - 1" C  
 LEGEND - BLACK  
 BACKGROUND - YELLOW

**NOTES**

1. PEDESTRIAN PUSHBUTTON AND SIGN ASSEMBLY - MAY BE SEPARATE PARTS. USE 9" (IN) X 12" (IN) R10-25 SIGN IN ACCORDANCE WITH 2009 MUTCD. SIGN MAY INCLUDE INTEGRATED WARNING LIGHTS.
2. SEE STANDARD PLAN J-21.10 FOR SIGNAL STANDARD FOUNDATION WITH FIXED BASE AND SLIP BASE DETAILS.
3. SEE STANDARD PLAN J-21.16 FOR SIGNAL STANDARD DETAILS NOT SHOWN.
4. SEE STANDARD PLAN J-21.17, DETAIL C FOR WIRING DETAILS NOT SHOWN.
5. SEE STANDARD PLAN G-30.10 FOR SIGN INSTALLATION ON SIGNAL STANDARD DETAILS.
6. TERMINATE RFB CONNECTIONS PER MANUFACTURER'S RECOMMENDATION.
7. CONTROL CABINET ENCLOSURE SHALL BE SIZED BY THE RFB MANUFACTURER. THE CONTROL CABINET SHALL BE MANUFACTURED PER TERMINAL CABINET REQUIREMENTS OF STANDARD SPECIFICATION SECTION 9-29.25.
8. TOP OF POLE MOUNT MAY USE STANDARD PARTS MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 9-29.17, OR MAY BE PURPOSE-BUILT FOR THIS APPLICATION. A SOLAR POWER UNIT MAY BE INSTALLED ON TOP OF THE MOUNT.
9. SIGNAL DISPLAYS SHALL BE YELLOW LED TYPE, MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 9-29.16(2)A. OUTPUT SHALL NOT EXCEED 1000 CANDELAS DURING DAYLIGHT AND 500 CANDELAS AFTER DARK.
10. SIGNAL DISPLAYS SHALL USE CAP VISORS. HOUSINGS, VISORS, AND BACKPLATES SHALL BE ALUMINUM. BACKPLATES SHALL BE 5 INCHES WIDE AND SHALL NOT HAVE REFLECTIVE TAPE.
11. THE SIZE OF THE SIGNAL DISPLAYS AND W11-2 SIGNS SHALL BE AS FOLLOWS:

FOR POSTED SPEEDS OF 35 MPH OR LOWER:  
 8 INCH DISPLAYS AND 36" x 36" W11-2 SIGNS

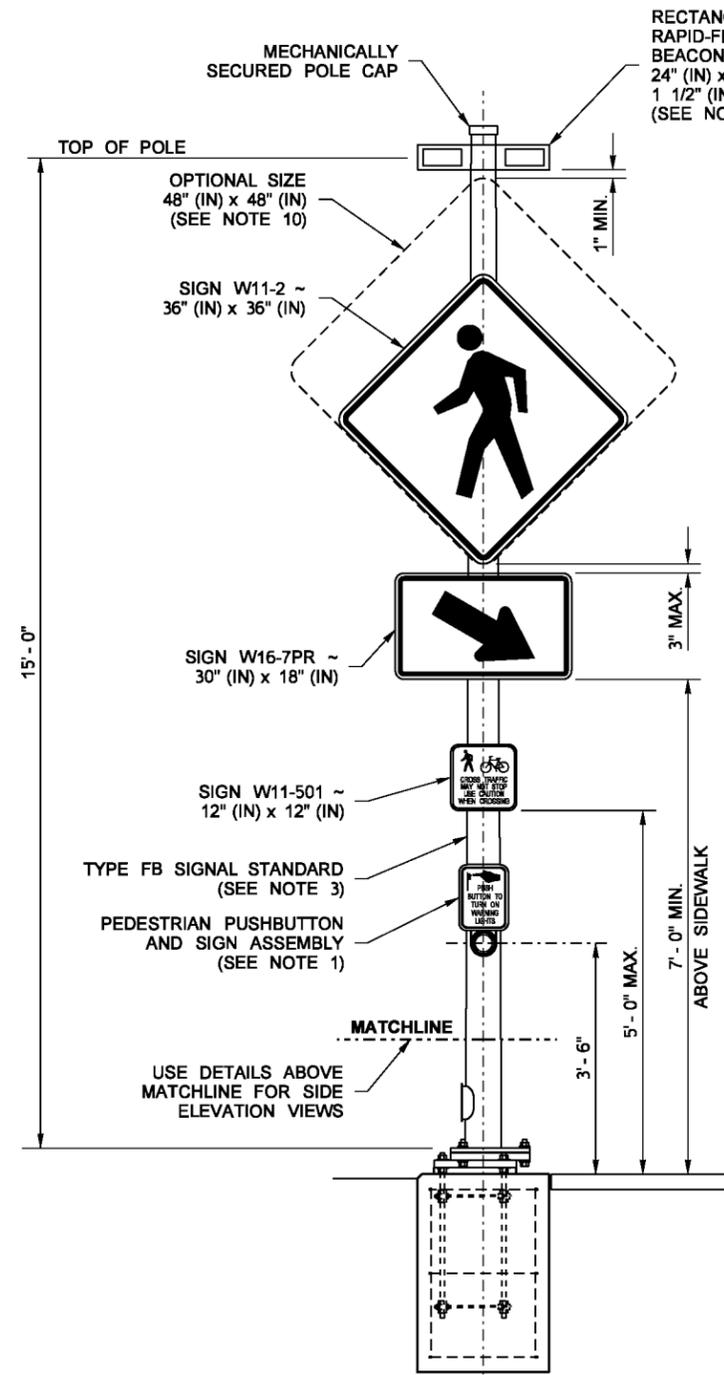
FOR POSTED SPEEDS OF 40 MPH OR HIGHER:  
 12 INCH DISPLAYS AND 48" x 48" W11-2 SIGNS.

**RAPID-FLASHING BEACON  
 CIRCULAR TYPE  
 (CRFB)**

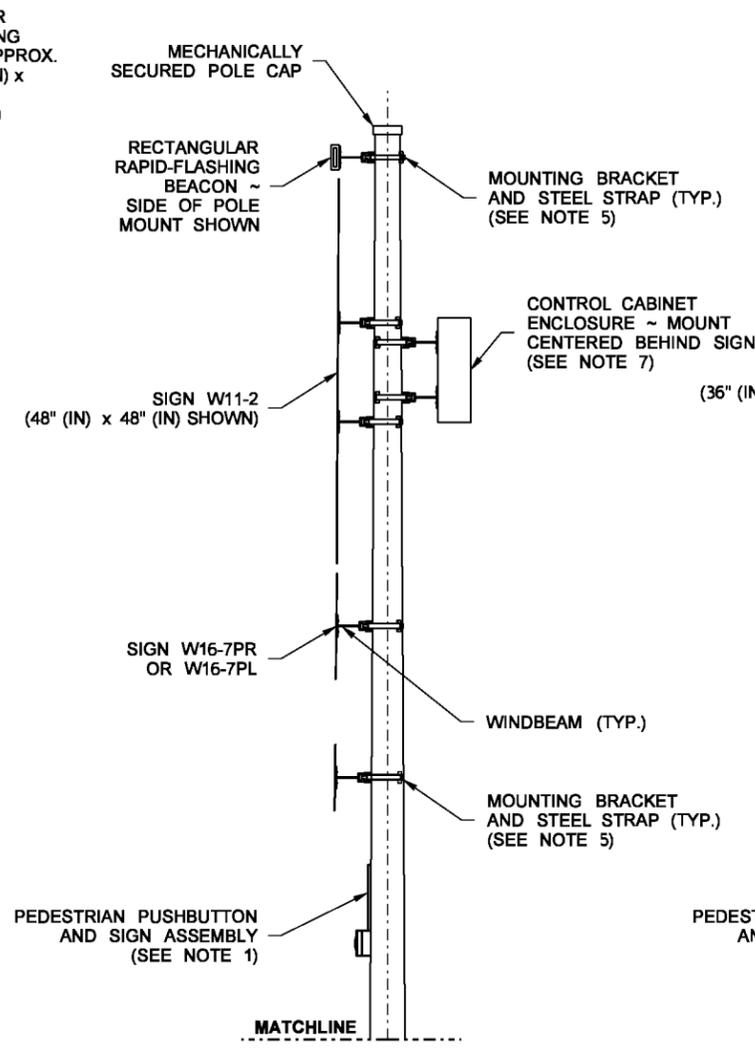
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ENTERED BY					
CHECKED BY					
PROJ. ENGR.					
REGIONAL ADM.					
	REVISION	DATE	BY	FED.AID PROJ.NO.	
				10 WASH	
				JOB NUMBER	
				CONTRACT NO.	LOCATION NO.
				DATE	DATE
				P.E. STAMP BOX	P.E. STAMP BOX

Washington State  
 Department of Transportation

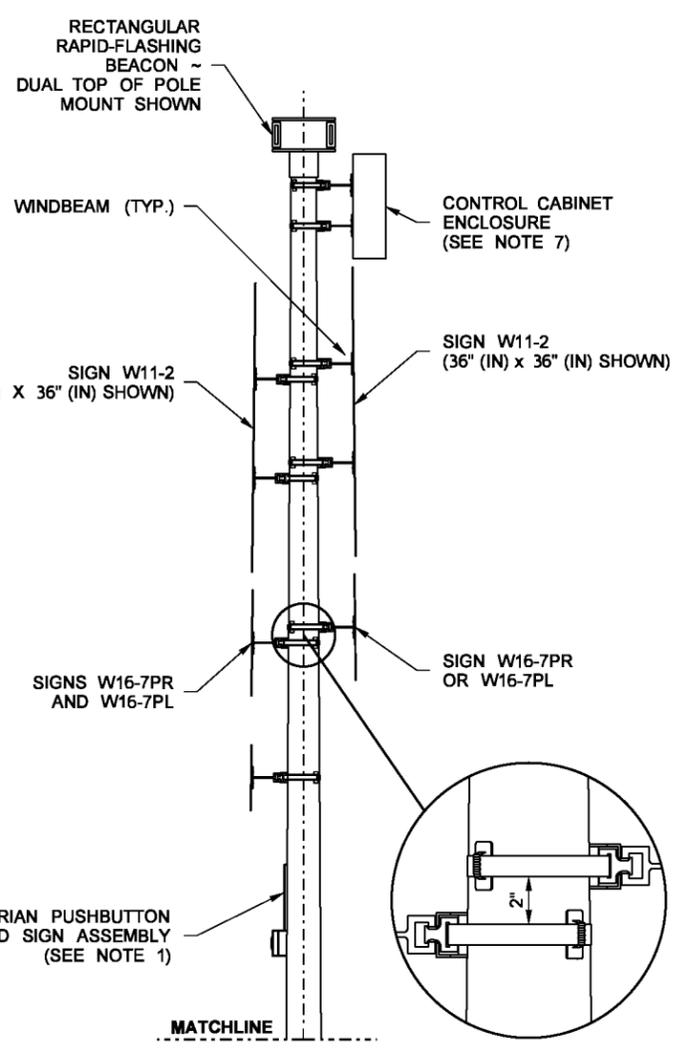
Plot 1
PLAN REF NO
IS-22
SHEET 1 OF 2 SHEETS
<b>RFB DETAILS</b>



**FRONT ELEVATION VIEW**  
**RAPID-FLASHING BEACON**  
 SLIP BASE AND CONCRETE SQUARE FOUNDATION SHOWN (SEE NOTES 2 & 4)



**SIDE ELEVATION VIEW**  
**UNI-DIRECTIONAL CONFIGURATION**  
 DETAILS



**SIDE ELEVATION VIEW**  
**BI-DIRECTIONAL CONFIGURATION**  
 DETAILS



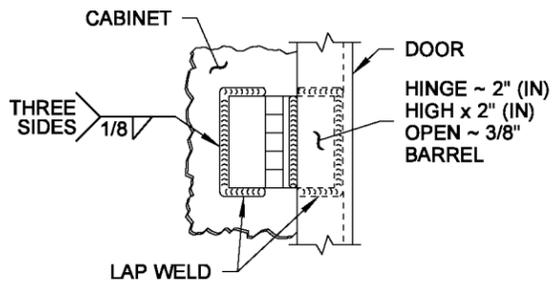
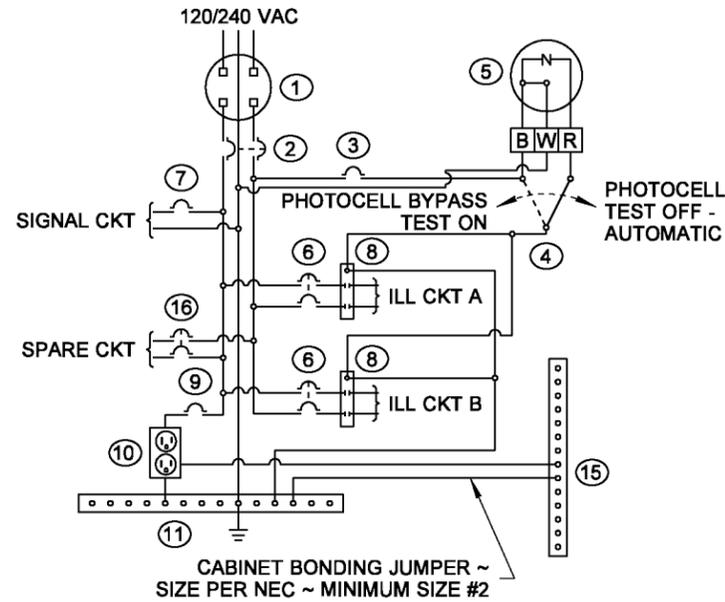
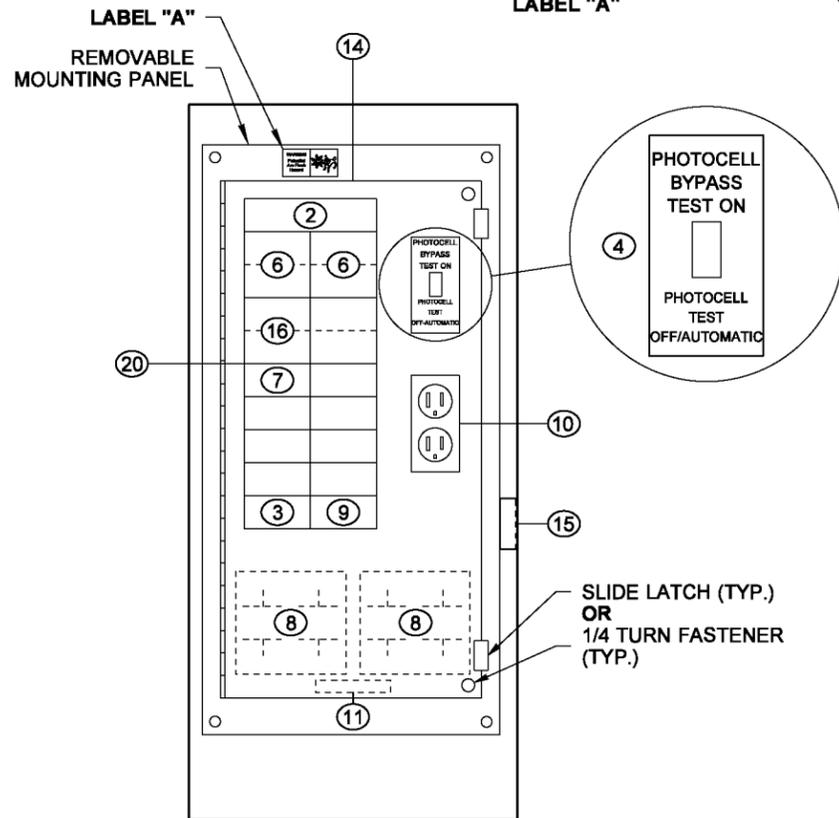
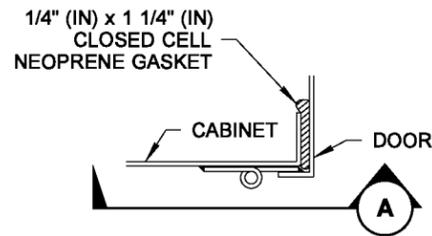
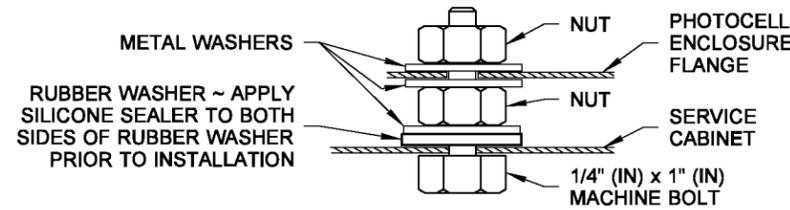
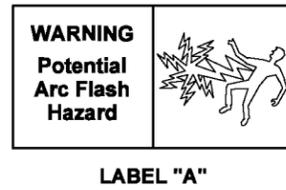
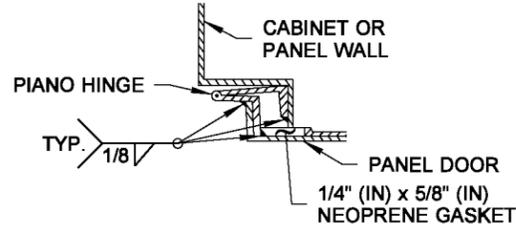
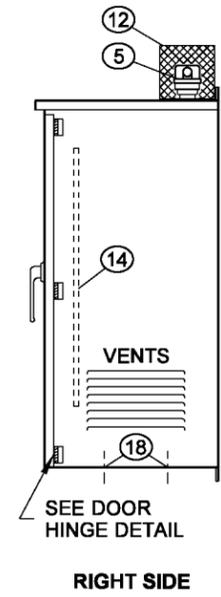
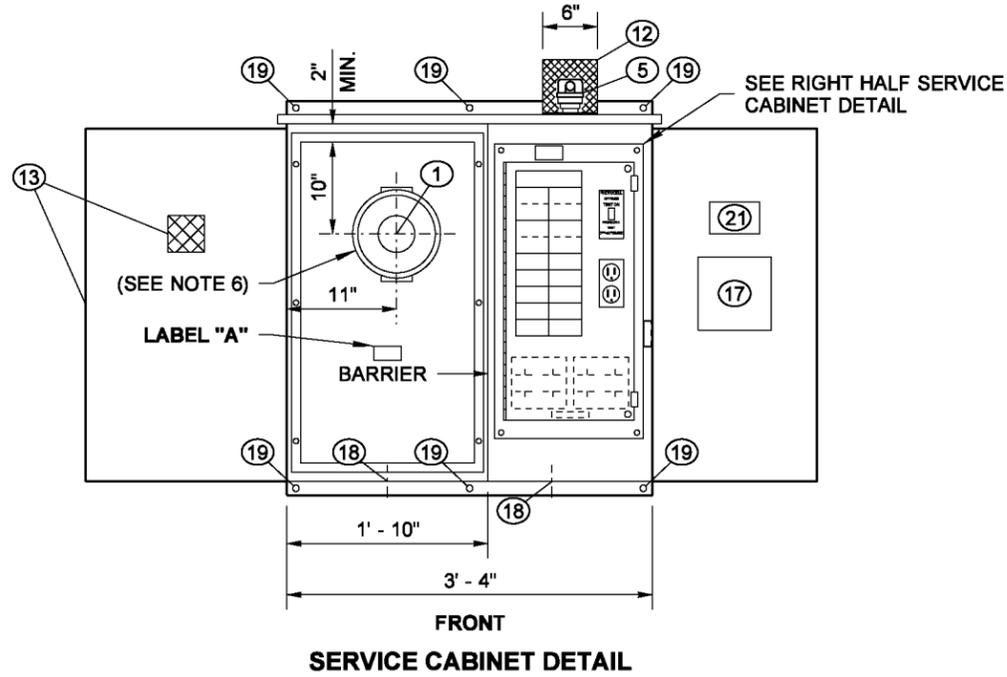
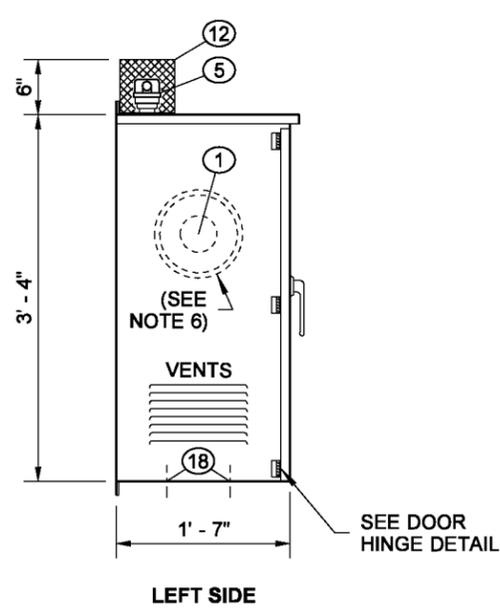
**W11-501**  
**(12" x 12")**  
 PEDESTRIAN SYMBOL HEIGHT - 4" (IN)  
 BICYCLE SYMBOL HEIGHT - 3" (IN)  
 LETTERS - 1" C  
 LEGEND - BLACK  
 BACKGROUND - YELLOW

**NOTES**

1. PEDESTRIAN PUSHBUTTON AND SIGN ASSEMBLY - MAY BE SEPARATE PARTS. USE 9" (IN) X 12" (IN) R10-25 SIGN IN ACCORDANCE WITH 2009 MUTCD. SIGN MAY INCLUDE INTEGRATED WARNING LIGHTS.
2. SEE STANDARD PLAN J-21.10 FOR SIGNAL STANDARD FOUNDATION WITH FIXED BASE AND SLIP BASE DETAILS.
3. SEE STANDARD PLAN J-21.16 FOR SIGNAL STANDARD DETAILS NOT SHOWN.
4. SEE STANDARD PLAN J-21.17, DETAIL C FOR WIRING DETAILS NOT SHOWN.
5. SEE STANDARD PLAN G-30.10 FOR SIGN INSTALLATION ON SIGNAL STANDARD DETAILS.
6. TERMINATE RFB CONNECTIONS PER MANUFACTURER'S RECOMMENDATION.
7. CONTROL CABINET ENCLOSURE SHALL BE SIZED BY THE RFB MANUFACTURER. THE CONTROL CABINET SHALL BE MANUFACTURED PER TERMINAL CABINET REQUIREMENTS OF STANDARD SPECIFICATION SECTION 9-29.25.
8. BEACON ASSEMBLY MAY BE MOUNTED ON THE TOP OF THE POLE OR ON THE SIDE OF THE POLE. A SOLAR POWER UNIT MAY BE INSTALLED ON TOP OF THE MOUNT.
9. RFRB DISPLAYS SHALL BE LED TYPE MEETING THE INTENSITY REQUIREMENTS OF SAE J595 FOR CLASS 1 YELLOW, BUT SHALL NOT EXCEED 1000 CANDELAS DURING DAYLIGHT AND 500 CANDELAS AFTER DARK.
10. FOR POSTED SPEEDS OF 35 MPH OR LOWER, THE W11-2 SIGNS SHALL BE 36" x 36". FOR POSTED SPEEDS OF 40 MPH OR HIGHER, THE W11-2 SIGNS SHALL BE 48" x 48".

**RAPID-FLASHING BEACON**  
**RECTANGULAR TYPE**  
**(RFRB)**

FILE NAME	S:\Design R P& S4-Standards\2-Plan Sheet Library\01-Published PSL\IS Illumination, Signals, and ITS\IS-22 & IS-23 Rectangular Rapid Flashing Beacon (RFRB) & Pedestrian Crossing Details\IS-22_Rev1.dgn					<p>Washington State Department of Transportation</p>	Plot 2
TIME	1:08:14 PM	REGION NO.	STATE	FED.AID PROJ.NO.	PLAN REF NO		
DATE	4/23/2018	10	WASH		IS-22		
PLOTTED BY	liddelf	JOB NUMBER			SHEET 2 OF 2 SHEETS		
DESIGNED BY		CONTRACT NO.		LOCATION NO.			
ENTERED BY		DATE		P.E. STAMP BOX	RFB DETAILS		
CHECKED BY		DATE		P.E. STAMP BOX			
PROJ. ENGR.		DATE		P.E. STAMP BOX			
REGIONAL ADM.		REVISION	DATE	BY			



**KEY**

- ① METER BASE PER SERVING UTILITY REQUIREMENTS ~ AS A MINIMUM, THE METER BASE SHALL BE SAFETY SOCKET BOX WITH FACTORY-INSTALLED TEST BYPASS FACILITY THAT MEETS THE REQUIREMENTS OF EUSERC DRAWING 305 ~ WHEN THE UTILITY REQUIRES METER BASE TO BE MOUNTED ON THE SIDE OR BACK OF THE SERVICE CABINET, THE METER BASE ENCLOSURE SHALL BE FABRICATED FROM TYPE 304 STAINLESS STEEL
- ② MAIN BREAKER ~ DPST ~ SIZE PER BREAKER SCHEDULE
- ③ PHOTOCELL BREAKER ~ SPST 15 AMP - 120/240 VOLT
- ④ TEST SWITCH ~ SPDT SNAP ACTION - POSITIVE CLOSE 15 AMP - 120/277 VOLT - "T" RATED
- ⑤ PHOTOELECTRIC CONTROL ~ SEE STANDARD SPECIFICATION, SECTION 9-29.11(2).
- ⑥ BRANCH BREAKER ~ SEE BREAKER SCHEDULE
- ⑦ SIGNAL BREAKER ~ SEE BREAKER SCHEDULE
- ⑧ CONTACTOR (BEHIND DEAD FRONT) ~ SEE BREAKER SCHEDULE
- ⑨ RECEPTACLE BREAKER ~ SPST 20 AMP - 120/240 VOLT
- ⑩ RECEPTACLE (GROUNDED) ~ GFCI 20 AMP - 125 VOLT
- ⑪ ISOLATED NEUTRAL BUSS ~ 14 LUG COPPER
- ⑫ PHOTOCELL ENCLOSURE ~ ENCLOSURE TO BE FABRICATED FROM 5/8" (IN) EXPANDED STEEL MESH WITH WELDED SEAMS AND MOUNTING FLANGES ~ HOT-DIP GALVANIZED AFTER FABRICATION ~ TYPE 5052 - H32 ALUMINUM WITH 5/8" (IN) x 5/8" (IN) OPENINGS EQUIVALENT TO 5/8" (IN) EXPANDED STEEL MESH MAY BE USED AS ALTERNATIVE MATERIAL ~ SEE PHOTOCELL MOUNTING DETAIL
- ⑬ HINGED FRONT FACING DOOR WITH 4" (IN) x 4" (IN) MINIMUM POLISHED WIRE GLASS WINDOW
- ⑭ HINGED DEAD FRONT WITH 1/4 TURN FASTENERS OR SLIDE LATCHES ~ DEAD FRONT PANEL BOLTS SHALL NOT EXTEND INTO VERTICAL LIMITS OF THE BREAKER ARRAY(S)
- ⑮ CABINET MAIN BONDING JUMPER ASSEMBLY ~ BUSS SHALL BE 14 LUG TINNED COPPER ~ SEE CABINET MAIN BONDING JUMPER ASSEMBLY DETAIL
- ⑯ SPARE BRANCH BREAKER ~ DPST 20 AMP - 120/240 VOLT
- ⑰ METAL WIRING DIAGRAM HOLDER
- ⑱ 1/4" (IN) DIAMETER DRAIN HOLE ~ DRILL BEFORE GALVANIZING
- ⑲ MOUNTING HOLE ~ SEE SERVICE CABINET MOUNTING DETAILS
- ⑳ 18-CIRCUIT PANEL BOARD ~ MINIMUM SIZE WITH SEPARATE MAIN BREAKER
- ㉑ LABEL CABINET WITH BUSSWORK RATING



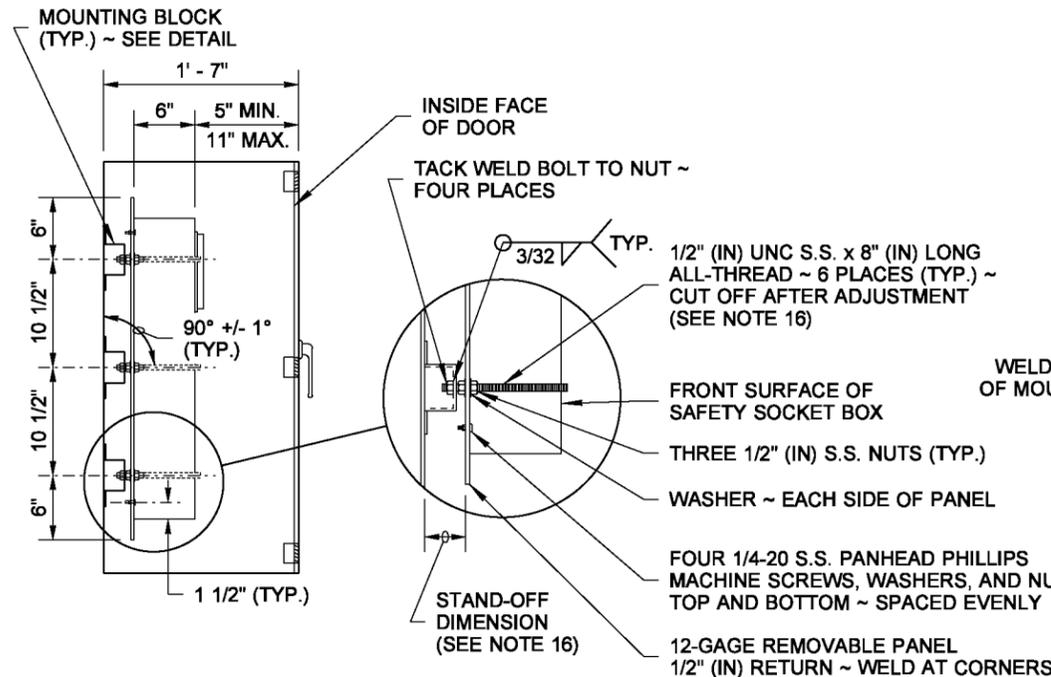
**SERVICE CABINET TYPE B MODIFIED (0 - 200 AMP TYPE 120/240 SINGLE PHASE) STANDARD PLAN J-10.20-02**

SHEET 1 OF 5 SHEETS

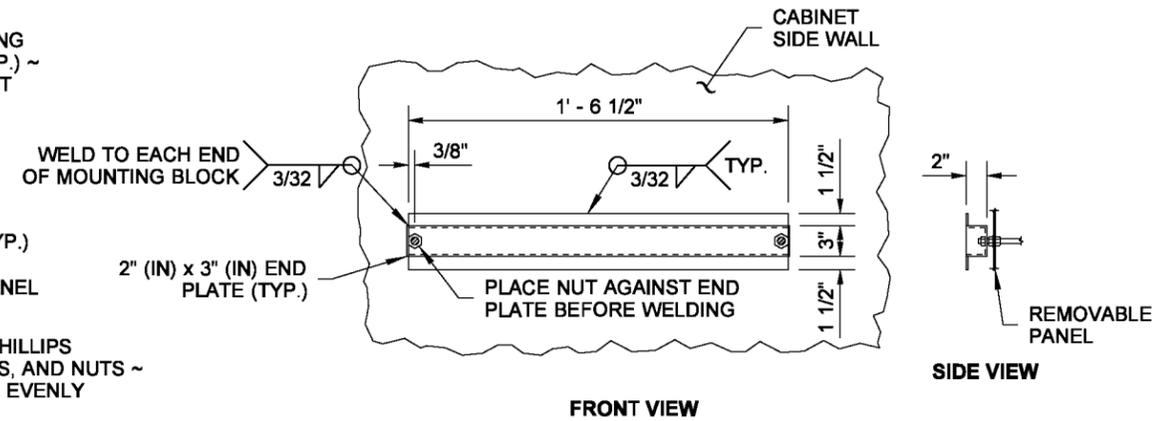
APPROVED FOR PUBLICATION

**NOTES (200 AMP TYPE 120/240 1Ø SERVICE CABINET)**

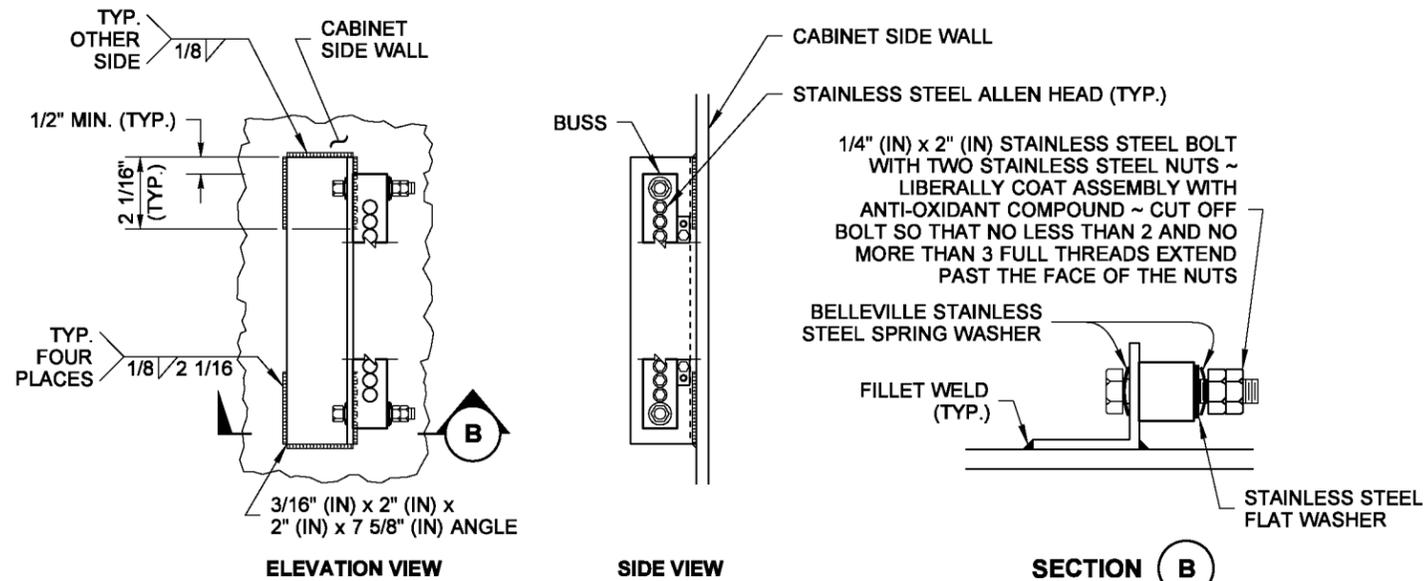
1. See **Standard Specification, Section 9-29.24** (Service Cabinets).
2. Hinges shall have stainless steel or brass pins.
3. Cabinets shall be rated NEMA 3R and shall include two rain-tight vents.
4. Metering equipment door shall be pad-lockable. Each door shall be gasketed. Install Best CX Construction Core on right side door. See Door Hinge Detail.
5. The following equipment within the service enclosure shall have an appropriately engraved phenolic name plate attached with screws or rivets:  
Key Numbers 2, 3, 4, 6, 7, 8, 9, & 16  
Key Number 4 name plate shall read:  
"PHOTOCELL BYPASS TEST ON" and "PHOTOCELL TEST OFF-AUTOMATIC". See Service Cabinet Detail.
6. Metering arrangements vary with different serving Utilities. The Utility may require meter base mounting in the enclosure, on the side, or on the back of the enclosure. The Utility may require the dimension between the door and the front of the safety socket box to be less than the 11" (in) shown in the Left Side - Safety Socket Box Mounting Detail. The Contractor shall verify the serving Utility's requirements prior to fabrication and installation of the service equipment.
7. Dimensions shown are minimum and shall be adjusted to accommodate the various sizes of equipment installed.
8. All busswork shall be high-grade copper and shall equal or exceed the main breaker rating. All breakers shall bolt onto the busswork. Jumpering of breakers shall not be allowed. Busswork shall accommodate all future equipment as shown in the breaker schedule.
9. The photocell unit shall be centered in the photocell enclosure to permit 360 degree rotation of the photocell without removal of the photocell unit or the photocell enclosure.
10. All internal wire runs shall be identified with "TO - FROM" coded tags labeled with the code letters and/or numbers shown on the schedules. Approved PVC or polyolefin wire marking sleeves shall be used.
11. All nuts, bolts, and washers used for mounting the photocell enclosure shall be stainless steel.
12. A 1% tolerance is allowed for all dimensions.
13. Slotted steel channel and mounting hardware components shall be stainless steel. Conduit clamps shall be hot-dipped galvanized steel or stainless steel.
14. The meter base portion of this service was designed to meet metering portion of **EUSERC Drawing 309** requirements.
15. When using alternate door hinge:  
Remove hinge pin prior to welding hinge to cabinet and prior to hot-dip galvanizing. After galvanizing, replace pin with brass pin and solder in place.
16. Verify the service utility stand-off dimension. Adjust the removable panel to the measurement provided by the Utility Company. After adjustment, cut off all-thread bolts so that no less than two and no more than three full threads extend past the face of the nuts.
17. As an alternate to the bolted or field welded strut mount supports, 1 5/8" (in) x 3 1/4" (in) 12-gage continuous slotted steel channel or factory welded 1 5/8" (in) x 1 5/8" (in) 12-gage back to back continuous slotted steel channel may be used. Three pairs required.



**LEFT SIDE - SAFETY SOCKET BOX MOUNTING DETAIL**



**MOUNTING BLOCK DETAIL**  
12-GAGE ~ MATERIAL SHALL BE THE SAME AS CABINET MATERIAL



**CABINET MAIN BONDING JUMPER ASSEMBLY DETAIL**

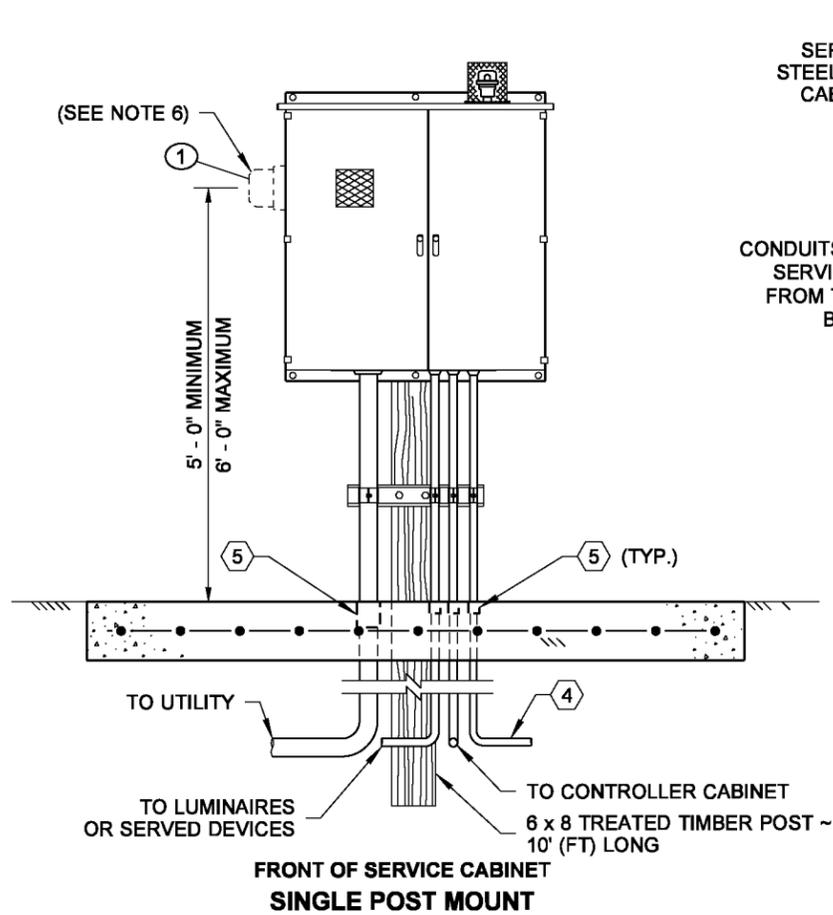


**SERVICE CABINET TYPE B  
MODIFIED (0 - 200 AMP TYPE  
120/240 SINGLE PHASE)  
STANDARD PLAN J-10.20-02**

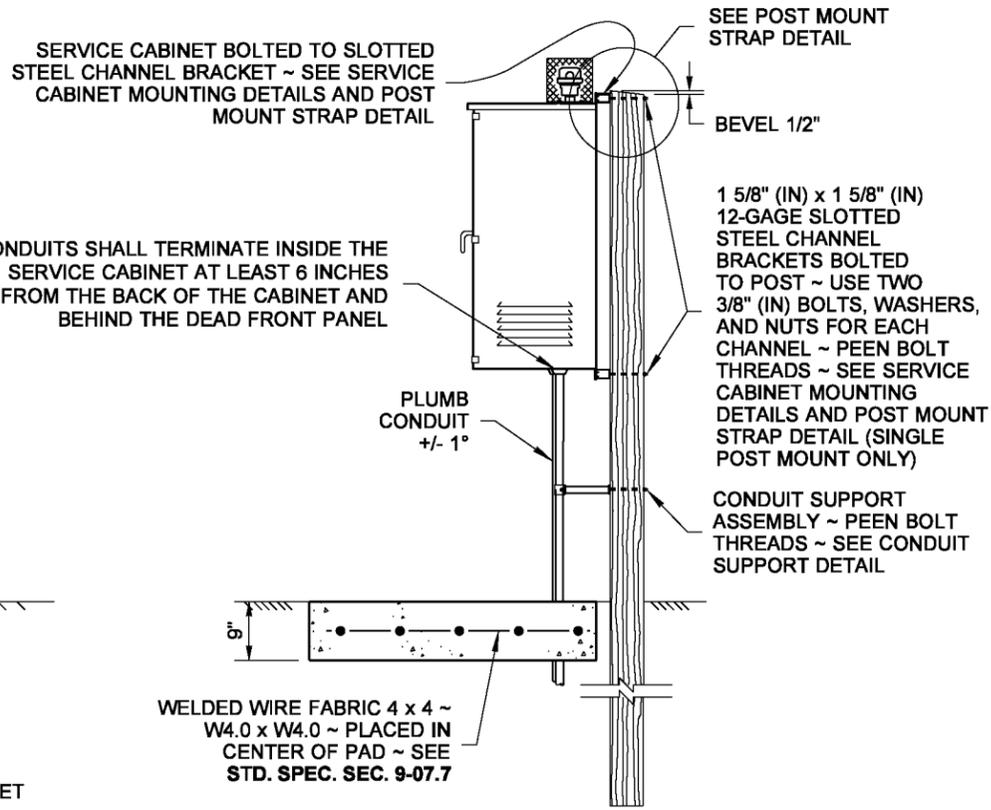
SHEET 2 OF 5 SHEETS

APPROVED FOR PUBLICATION

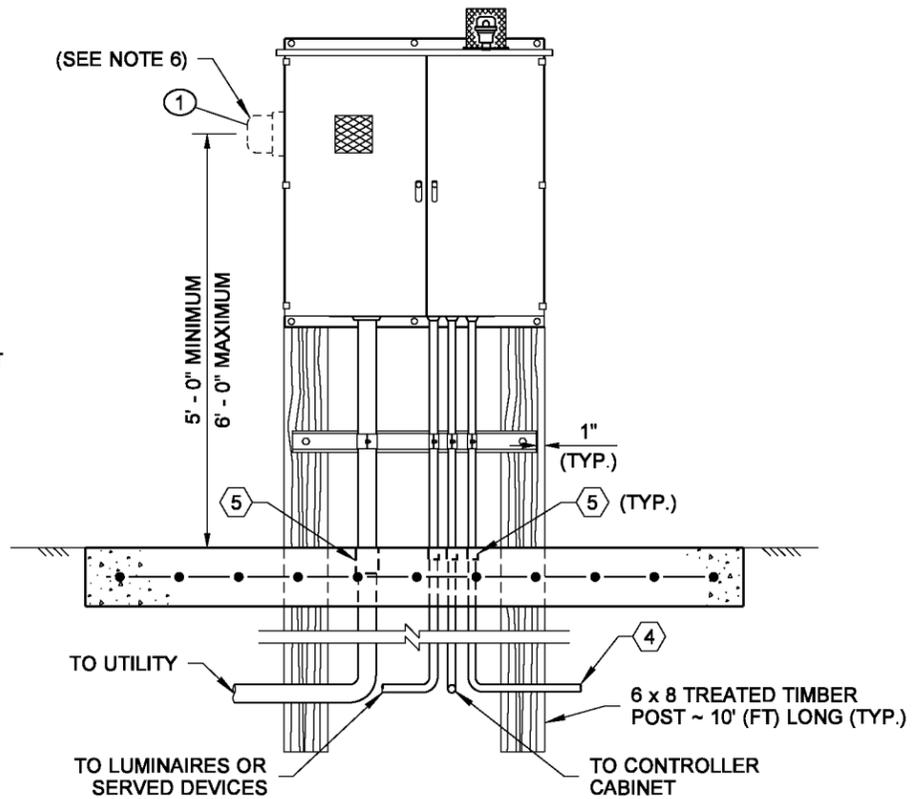
DRAWN BY: FERN LIDDELL



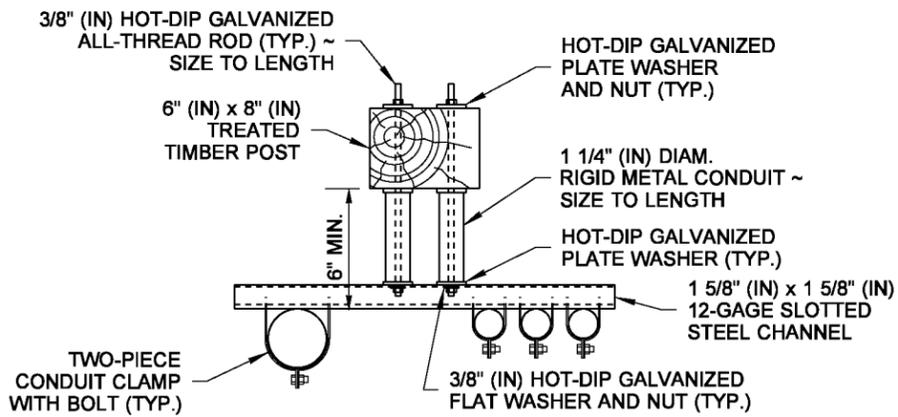
FRONT OF SERVICE CABINET  
SINGLE POST MOUNT



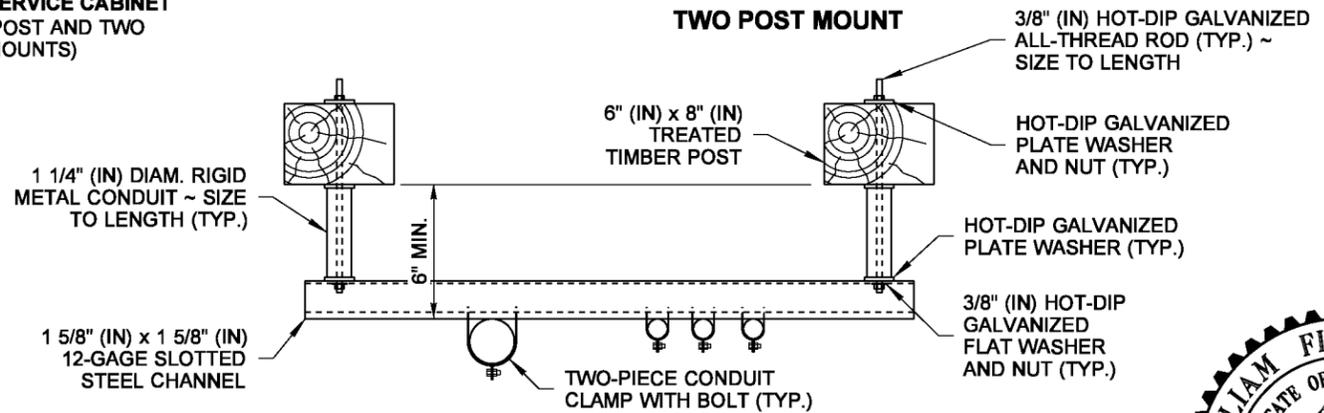
RIGHT SIDE OF SERVICE CABINET  
(FOR SINGLE POST AND TWO  
POST MOUNTS)



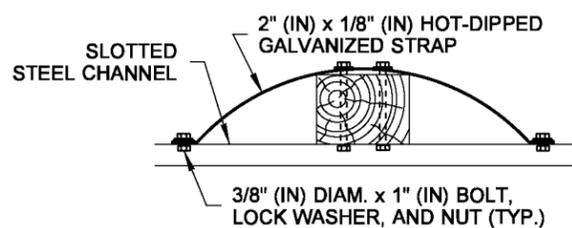
FRONT OF SERVICE CABINET  
TWO POST MOUNT



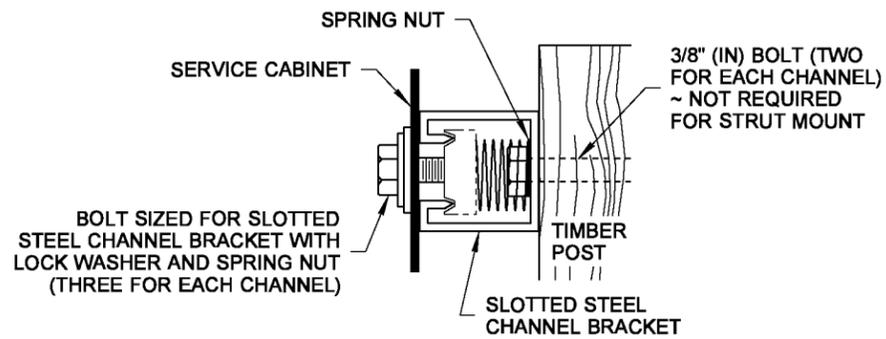
CONDUIT SUPPORT DETAIL  
(SINGLE POST MOUNT ONLY)



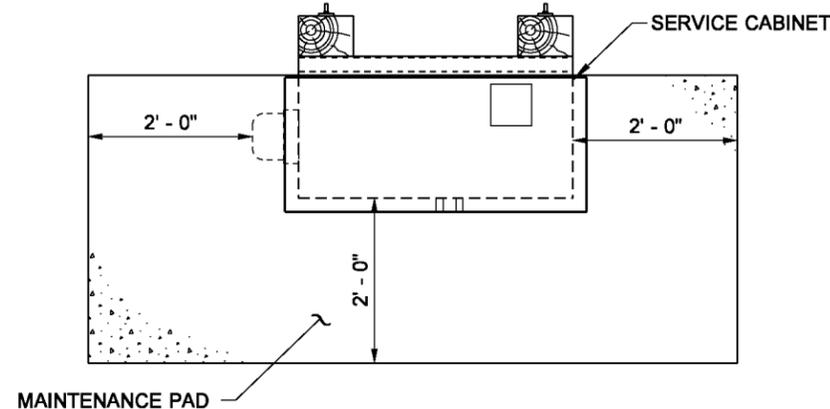
CONDUIT SUPPORT DETAIL  
(TWO POST MOUNT ONLY)



POST MOUNT STRAP DETAIL  
(SINGLE POST MOUNT ONLY)



CABINET BRACKET MOUNTING DETAIL  
(FOR SINGLE POST AND TWO  
POST MOUNTS)



PLAN VIEW  
MAINTENANCE PAD (FOR SINGLE POST AND TWO  
POST MOUNTS)

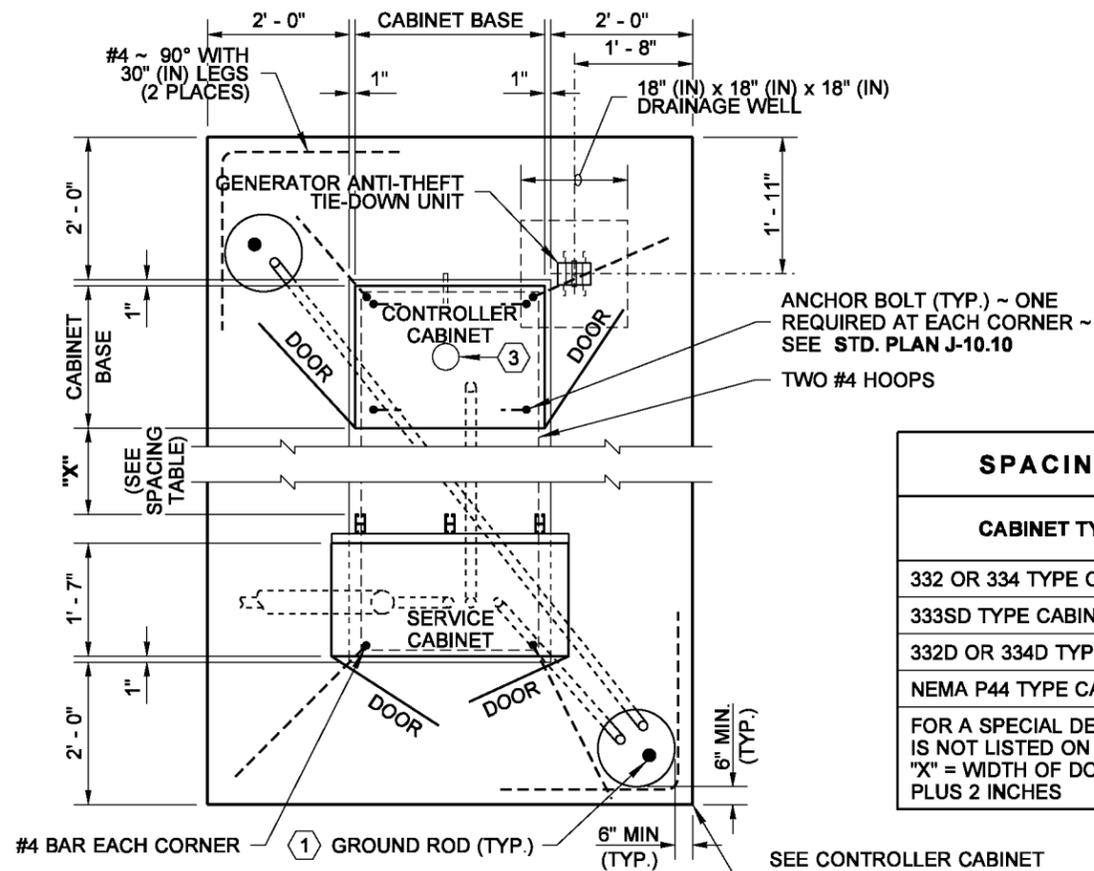


**SERVICE CABINET TYPE B  
MODIFIED (0 - 200 AMP TYPE  
120/240 SINGLE PHASE)  
STANDARD PLAN J-10.20-02**

SHEET 3 OF 5 SHEETS

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 Washington State Department of Transportation



**PLAN VIEW OF SERVICE CABINET**

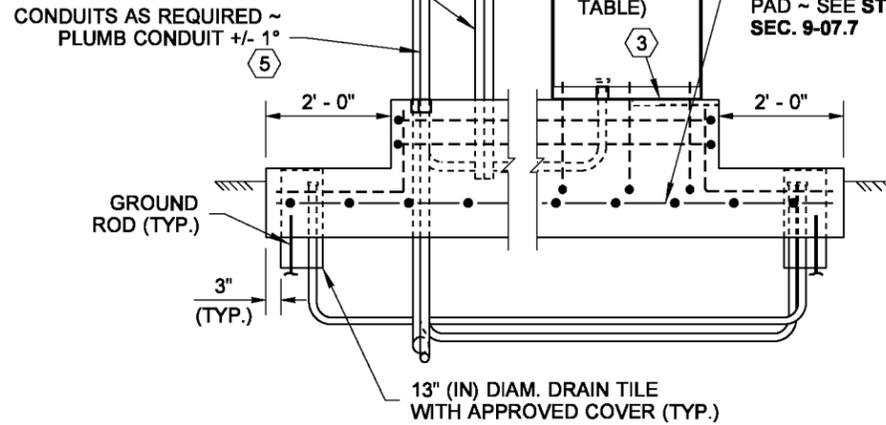
SEE CONTROLLER CABINET FOUNDATION DETAILS ON **STANDARD PLAN J-10.10** FOR CABINET DIMENSION TABLE AND DETAILS NOT SHOWN

SPACING TABLE	
CABINET TYPE	"X"
332 OR 334 TYPE CABINET	26"
333SD TYPE CABINET	24"
332D OR 334D TYPE CABINET	26"
NEMA P44 TYPE CABINET	46 1/2"
FOR A SPECIAL DESIGN CABINET THAT IS NOT LISTED ON <b>STD. PLAN J-10.10</b> : "X" = WIDTH OF DOOR OPEN TO 180° PLUS 2 INCHES	

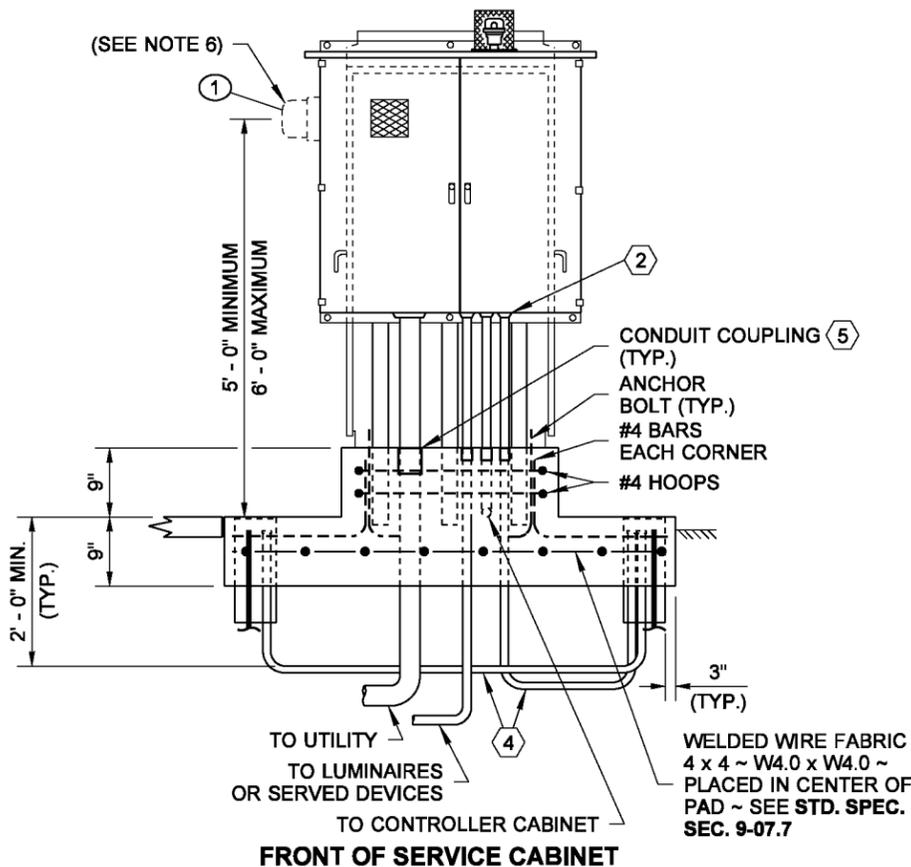
1 5/8" (IN) x 1 5/8" (IN) 12-GAGE SLOTTED STEEL CHANNEL BRACKETS (TWO REQUIRED)

CONDUITS SHALL TERMINATE INSIDE THE SERVICE CABINET AT LEAST 6 INCHES FROM THE BACK OF THE CABINET AND BEHIND THE DEAD FRONT PANEL

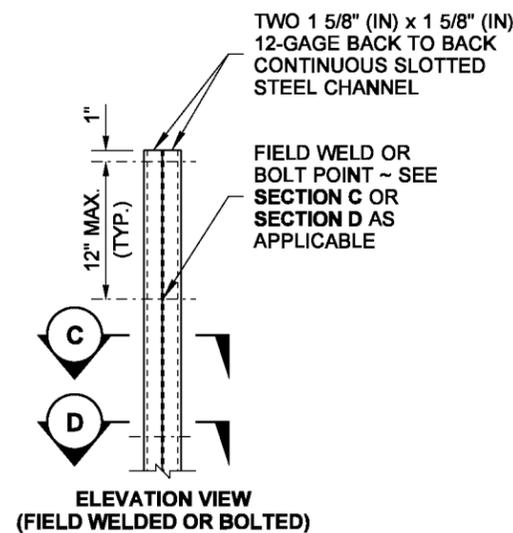
TWO 1 5/8" (IN) x 1 5/8" (IN) 12-GAGE BACK-TO-BACK CONTINUOUS SLOTTED STEEL CHANNEL (THREE PAIRS REQUIRED) OR 1 5/8" (IN) x 3 1/4" (IN) 12-GAGE CONTINUOUS SLOTTED STEEL CHANNEL ~ EMBED 12" (IN) MIN. IN FOUNDATION ~ SEE STRUT MOUNT SUPPORT DETAILS (SEE NOTE 17)



**RIGHT SIDE OF SERVICE CABINET**



**FRONT OF SERVICE CABINET**



**STRUT MOUNT SUPPORT DETAILS**  
(SEE NOTE 17)

**KEY**

- 1 DRIVE GROUND RODS BEFORE PLACING CONCRETE ~ MOVE ROD(S) AND DRAIN TILE(S) WITH COVER(S) AS REQUIRED TO ACHIEVE FULL GROUND PENETRATION ~ MAINTAIN A 6' (FT) MINIMUM CLEARANCE BETWEEN GROUND RODS AS DETAILED ON **STANDARD PLAN J-60.05**.
- 2 ALL RMC CONDUITS PENETRATING CABINET SHALL BE TERMINATED WITH GROUNDING END BUSHING AND BONDED TO THE CABINET GROUNDING BUSS.
- 3 4" (IN) DIAM. x 1/2" (IN) DEEP SUMP. SLOPE FOUNDATION TOWARD SUMP ~ 3/8" (IN) DIAM. POLYETHYLENE OR COPPER DRAIN PIPE ~ SLOPE TO DRAIN OUTSIDE FOUNDATION ~ LOCATE DRAIN AWAY FROM ACCESS DOORS.
- 4 TO SERVICE GROUND ~ PER **STANDARD PLAN J-60.05**.
- 5 INSTALL CONDUIT COUPLINGS ON ALL CONDUITS ~ TOP OF CONDUIT COUPLINGS SHALL BE FLUSH WITH TOP OF CONCRETE ~ IF PVC CONDUITS ARE SPECIFIED, THE CONDUIT STUB AND END BELL BUSHING SHALL NOT BE GLUED TO THE COUPLING.

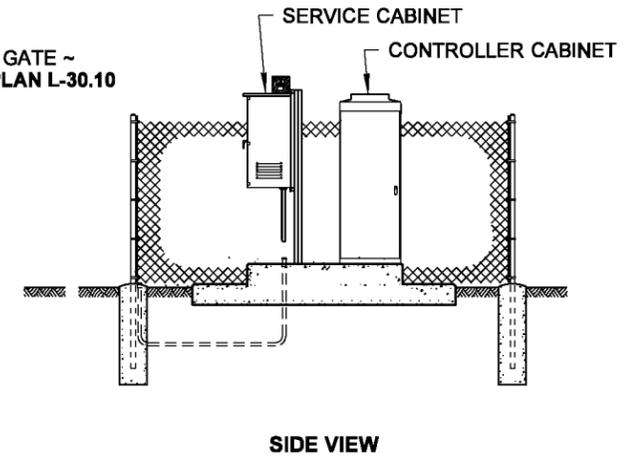
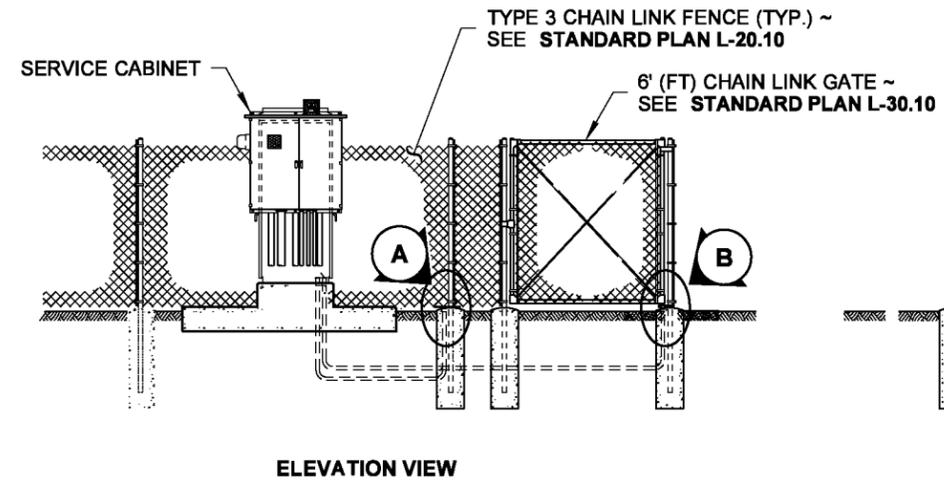
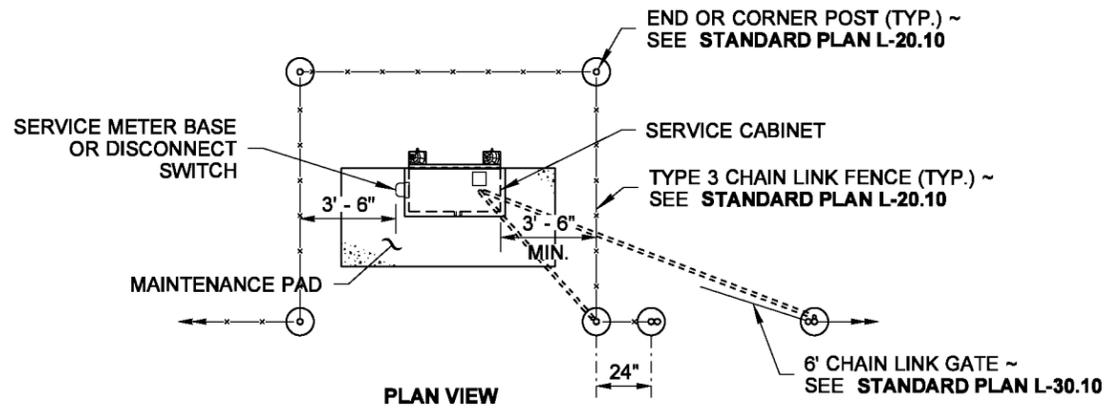
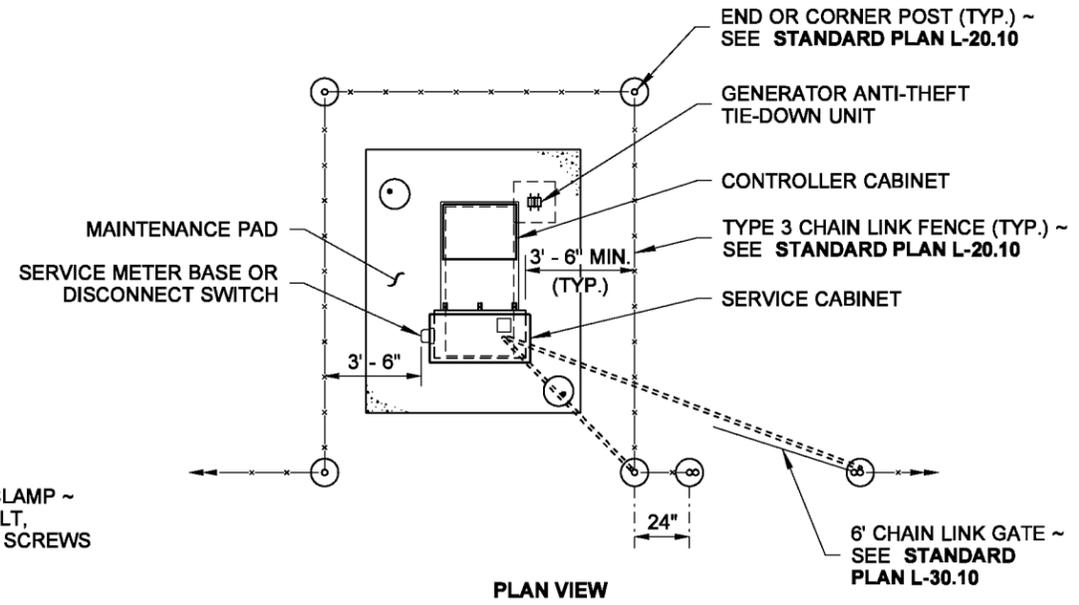
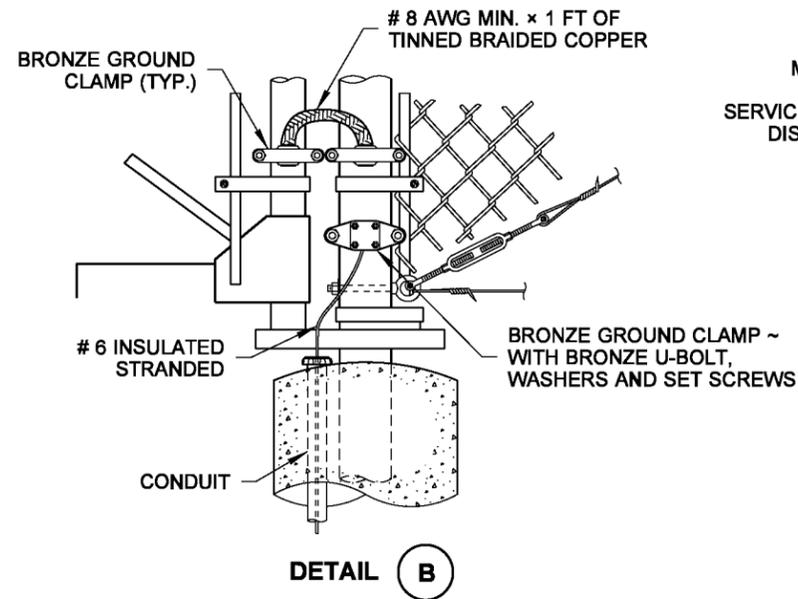
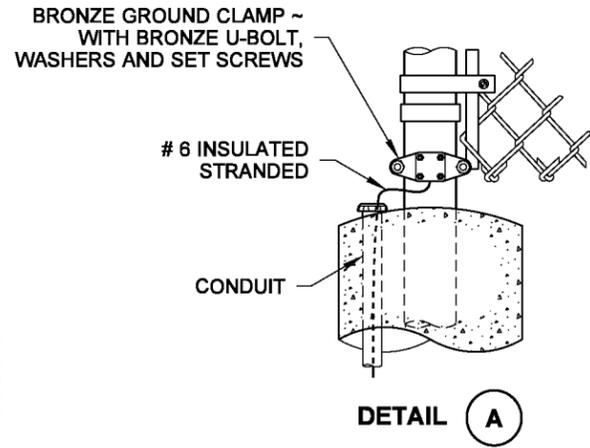


**SERVICE CABINET TYPE B MODIFIED (0 - 200 AMP TYPE 120/240 SINGLE PHASE) STANDARD PLAN J-10.20-02**

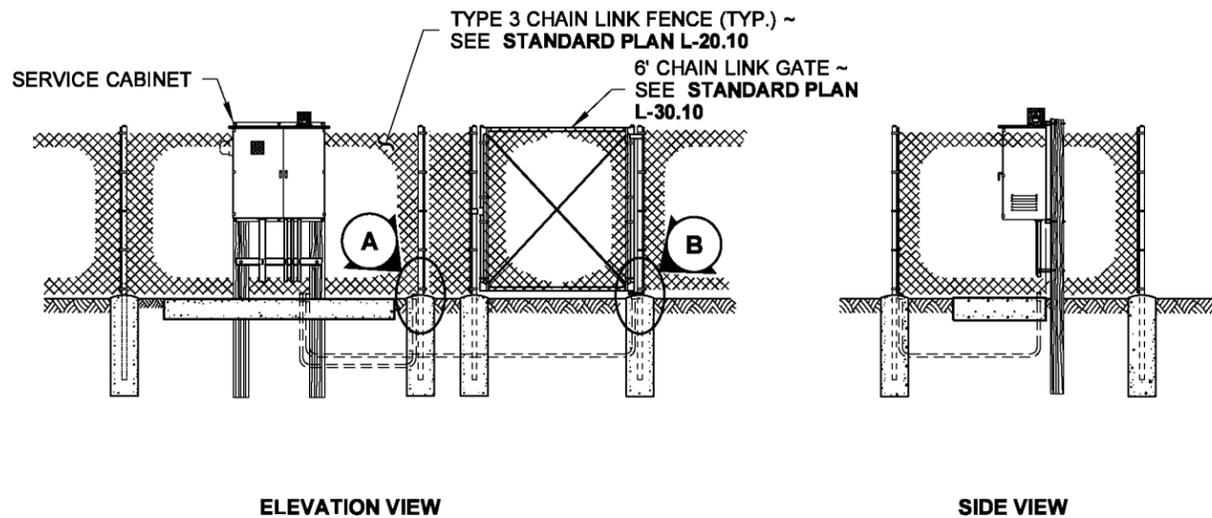
SHEET 4 OF 5 SHEETS

APPROVED FOR PUBLICATION

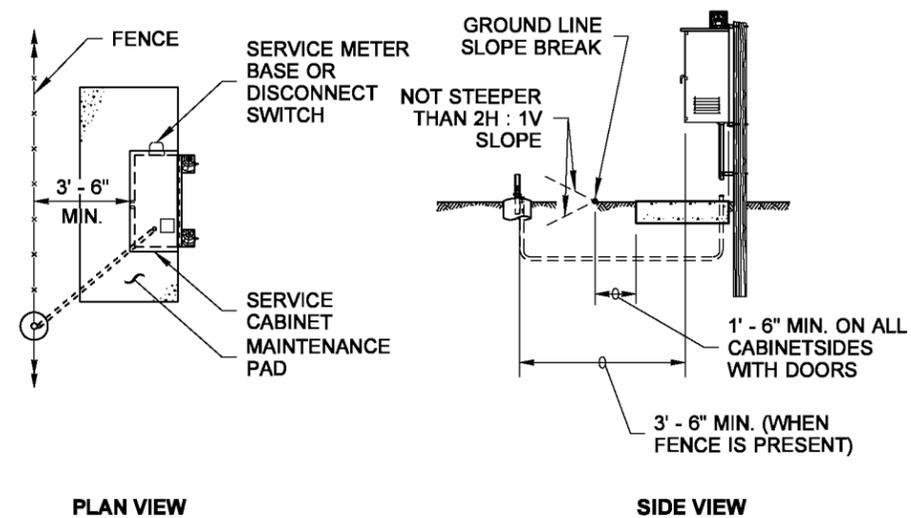
DRAWN BY: FERN LIDDELL



**PAD MOUNTED SERVICE CABINET WITHIN RIGHT-OF-WAY FENCE**  
 FOR CONDUITS NOT SHOWN, DRAIN TILE FOR GROUNDING, DRAIN TUBES, REINFORCING STEEL, ETC. OMITTED FOR CLARITY, SEE SHEET 4 FOR ADDITIONAL DETAILS.



**POST MOUNTED SERVICE CABINET WITHIN RIGHT-OF-WAY FENCE**  
 FOR CONDUITS NOT SHOWN, DRAIN TILE FOR GROUNDING, DRAIN TUBES, REINFORCING STEEL, ETC. OMITTED FOR CLARITY, SEE SHEET 4 FOR ADDITIONAL DETAILS.



**SERVICE CABINET IN VICINITY OF CHAIN LINK FENCE**  
 POST MOUNTED SERVICE CABINET SHOWN, PAD MOUNTED SERVICE CABINET SIMILAR



**SERVICE CABINET TYPE B MODIFIED (0 - 200 AMP TYPE 120/240 SINGLE PHASE) STANDARD PLAN J-10.20-02**

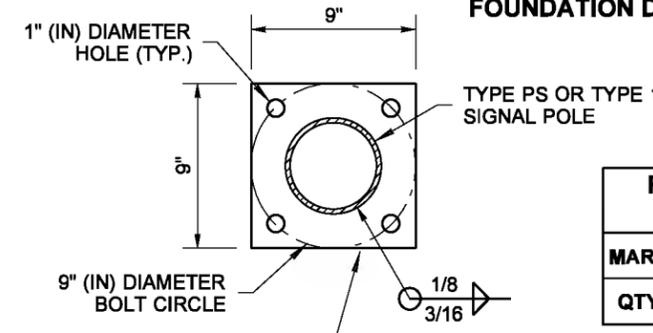
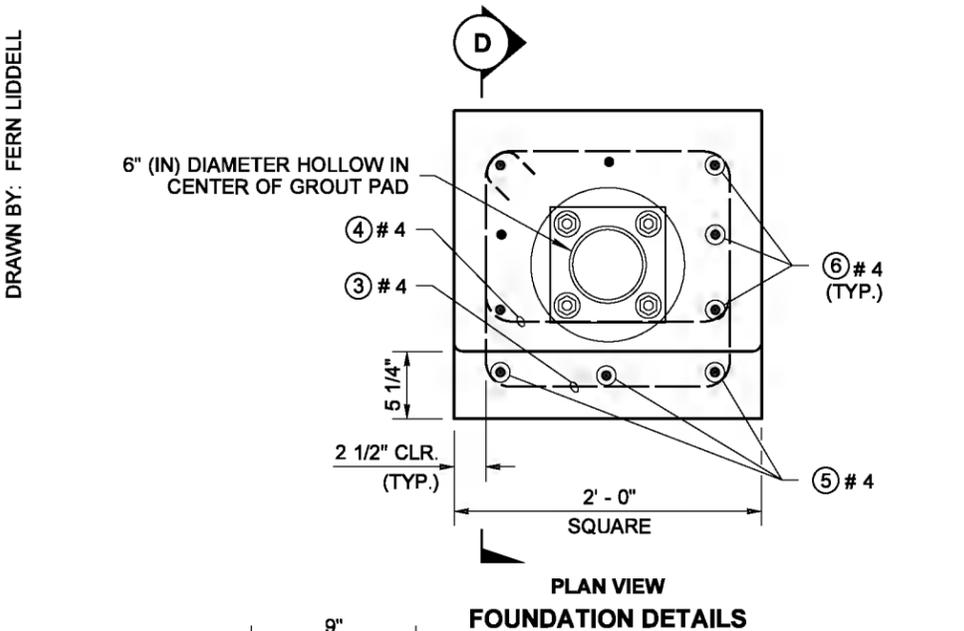
SHEET 5 OF 5 SHEETS

APPROVED FOR PUBLICATION

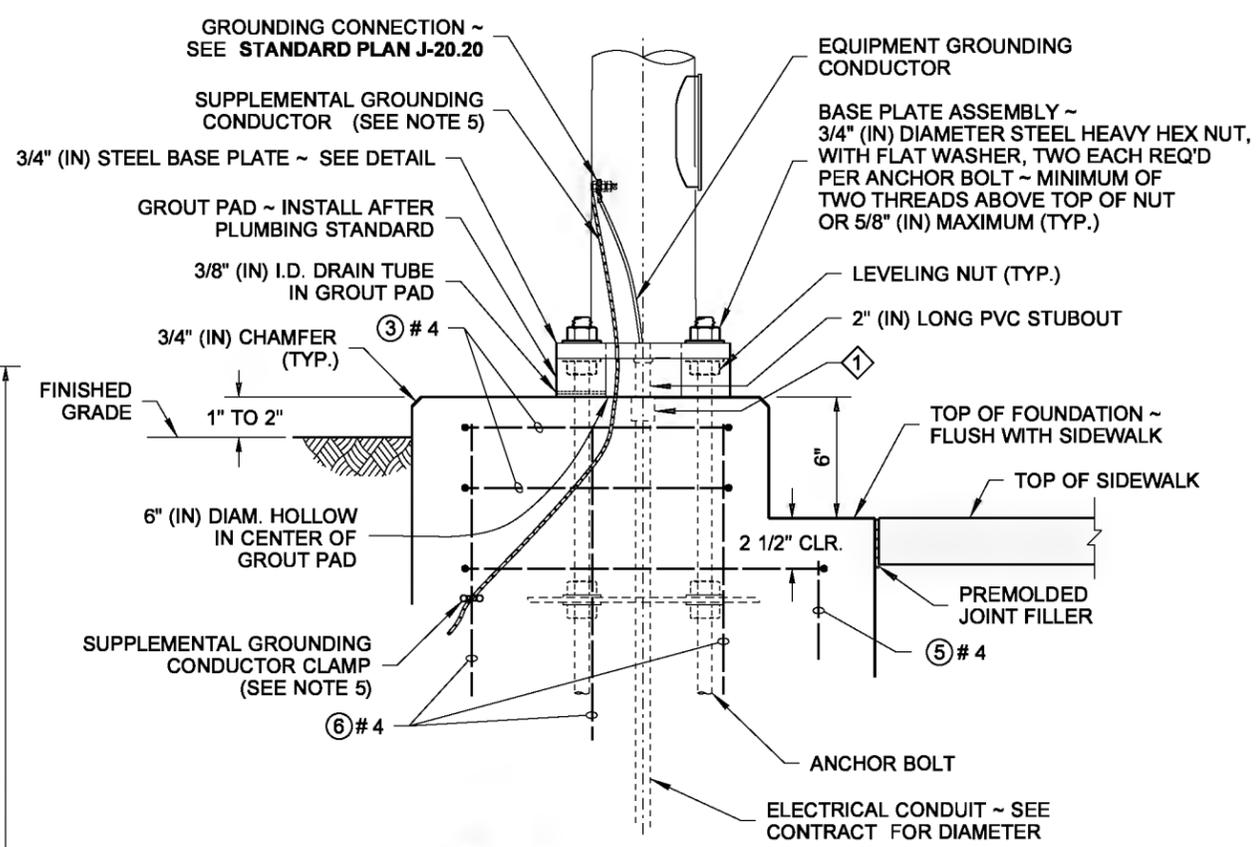
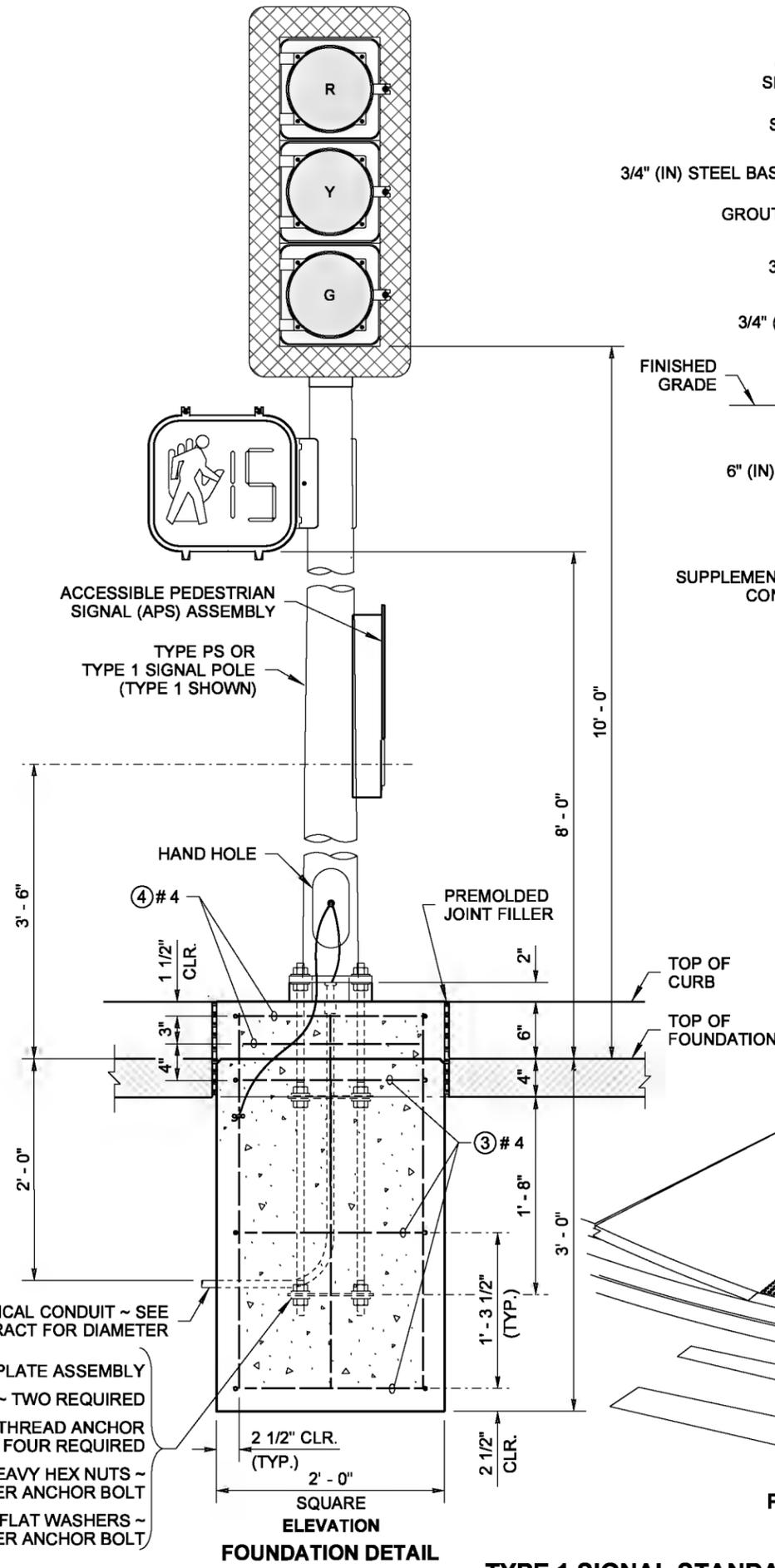
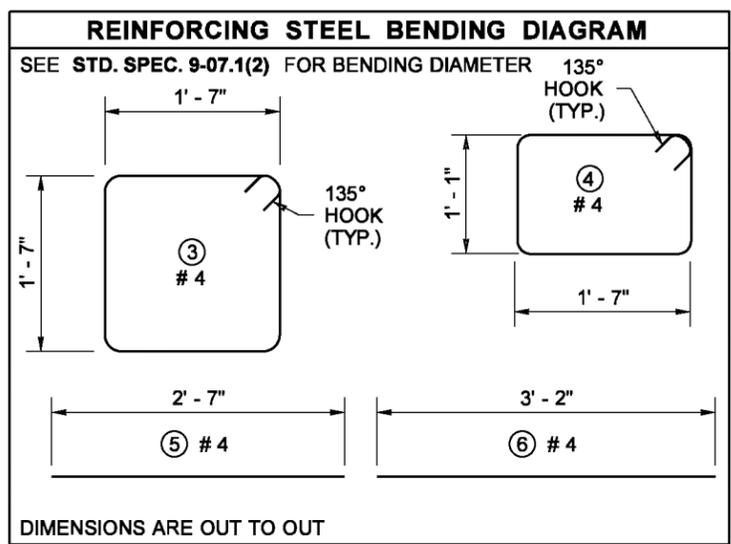
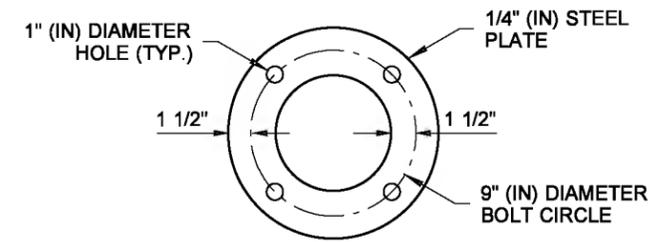
STATE DESIGN ENGINEER  
 Washington State Department of Transportation



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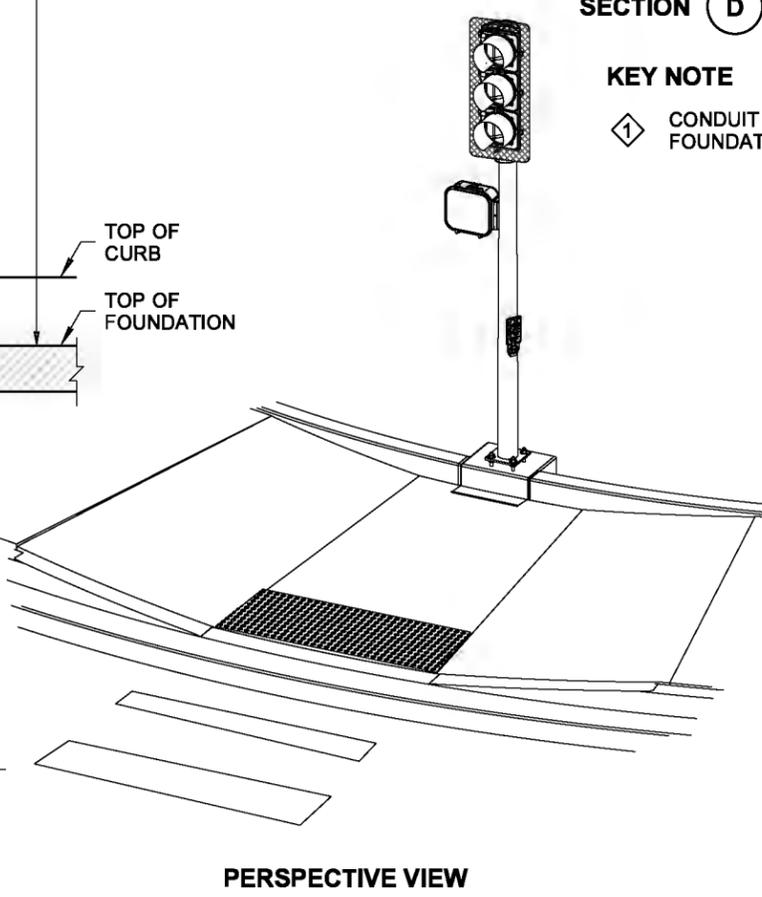


REINFORCING STEEL QUANTITIES LIST				
MARK	③	④	⑤	⑥
QTY.	3	2	3	7



**KEY NOTE**

① CONDUIT COUPLING ~ INSTALL FLUSH WITH TOP OF FOUNDATION. (DO NOT GLUE PVC STUBOUT)

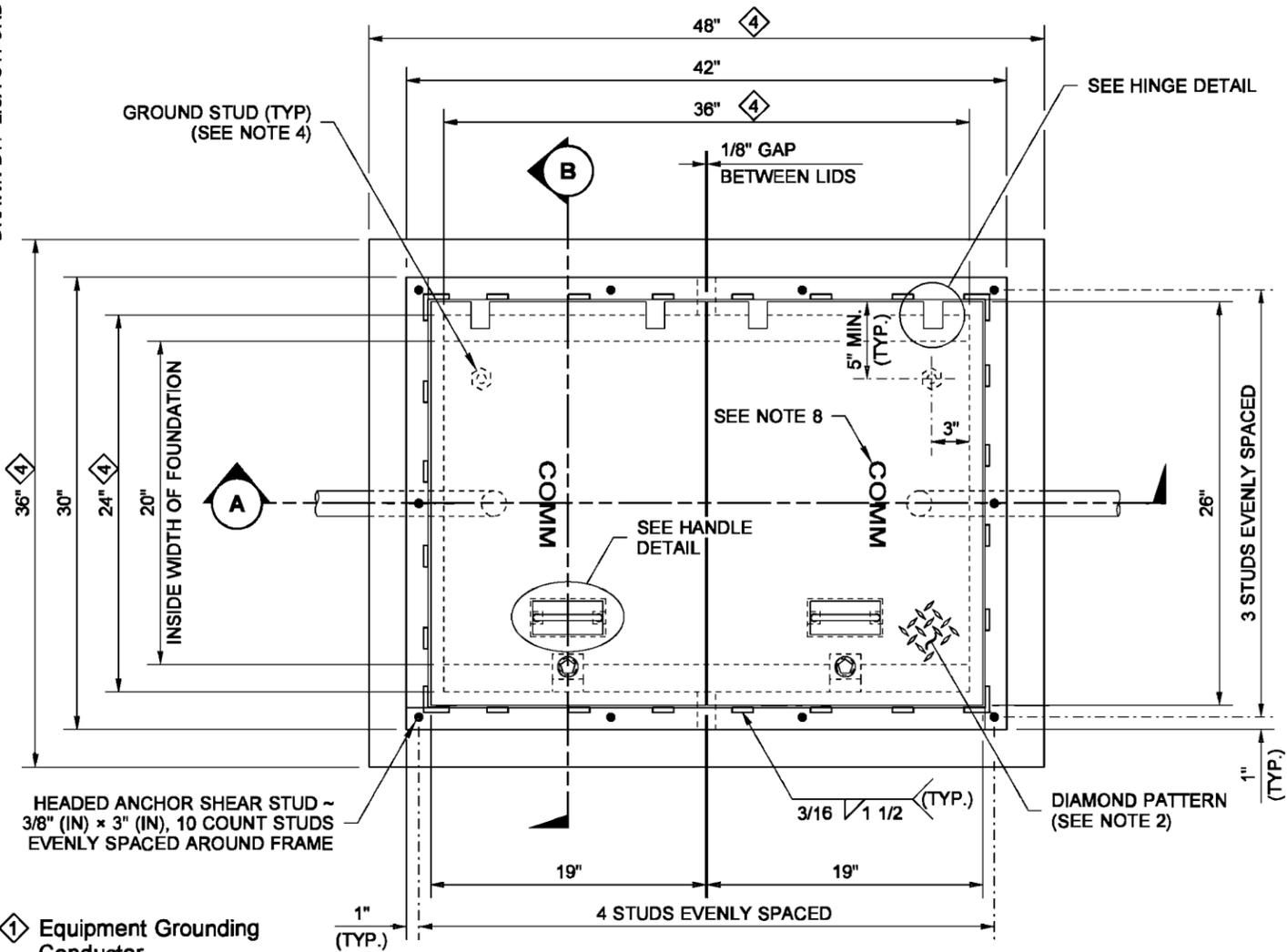


**ACCESSIBLE PEDESTRIAN PUSHBUTTON WITH CURB BASE**  
**STANDARD PLAN J-20.11-03**

SHEET 2 OF 2 SHEETS

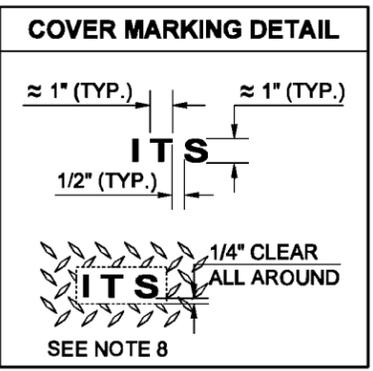
APPROVED FOR PUBLICATION

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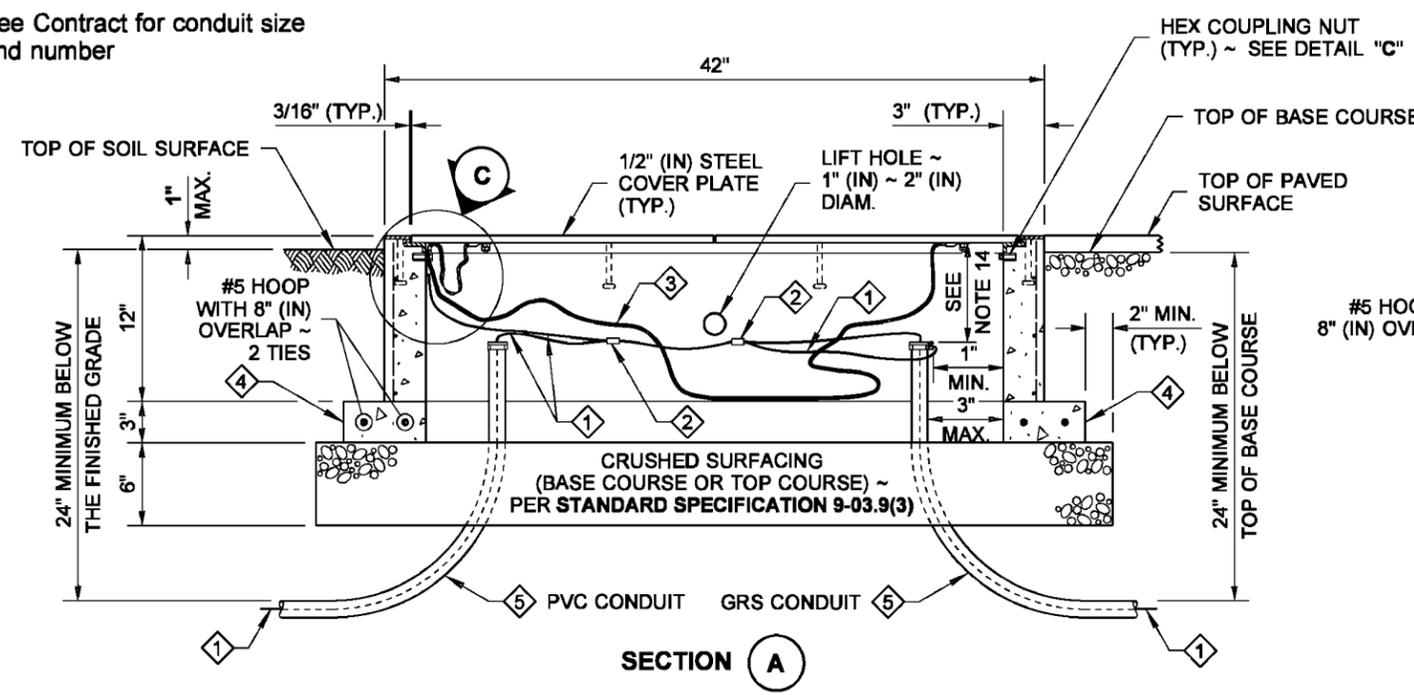
**PLAN VIEW**  
**LOCKING LID STANDARD DUTY JUNCTION BOX**

- ① Equipment Grounding Conductor
- ② Copper Solderless Crimp Connector
- ③ Equipment Bonding Jumper
- ④ Foundation
- ⑤ See Contract for conduit size and number

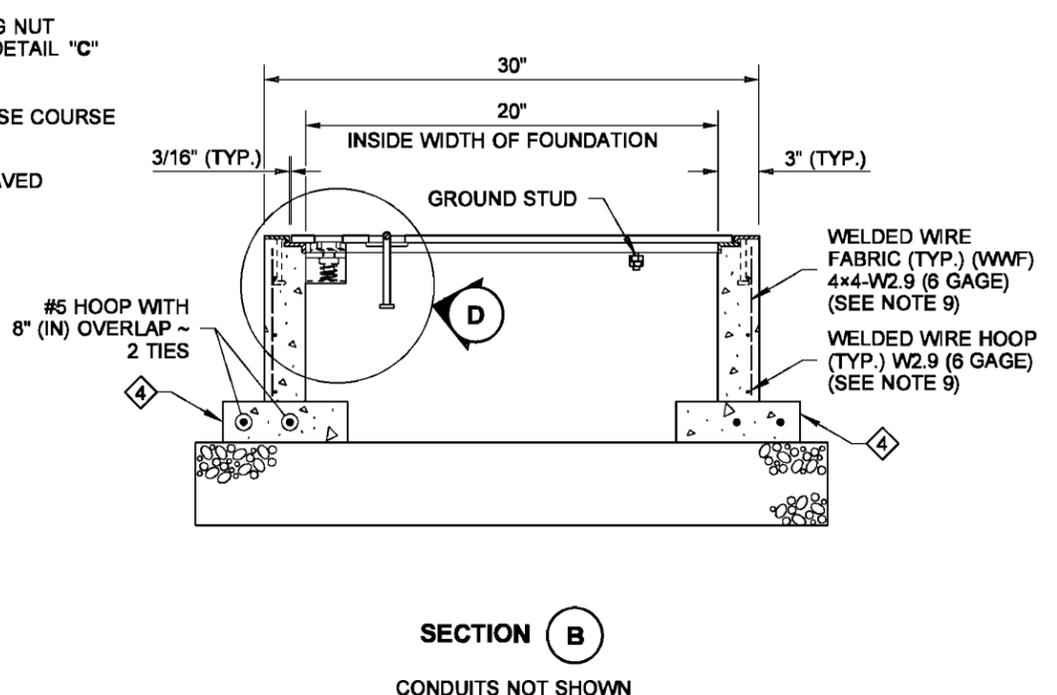


**NOTES**

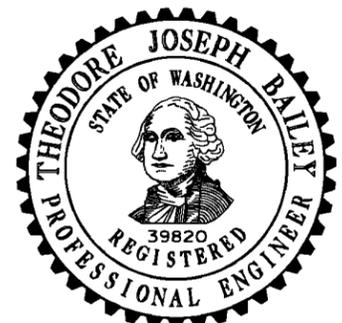
1. All box dimensions are approximate. Exact configurations vary among manufacturers.
2. Minimum lid thicknesses are shown. Junction Boxes installed in sidewalks, walkways, and shared-use paths shall have a slip-resistant coating on the lid and lip cover plate and shall be installed with the surface flush with and matched to the grade of the sidewalk, walkway, or shared-use path. The non-slip lid shall be identified with permanent markings on the underside, indicating the type of surface treatment (see Contract Documents for details) and the year of manufacture. The permanent marking shall be 1/8" (in) line thickness formed with a mild steel weld bead and shall be placed prior to hot-dip galvanizing.
3. Lid support members shall be 3/16" (in) min. thick steel C, L, or T shape, welded to the frame. Exact configurations vary among manufacturers.
4. A 1/4-20 NC x 3/4" (in) S. S. ground stud shall be welded to the bottom of each lid; include (2) S. S. nuts and (2) S. S. flat washers.
5. The hinges shall allow the lids to open 180°.
6. Bolts and nuts shall be liberally coated with anti-seize compound.
7. Connect Equipment Bonding Jumper to ground stud on lid. As an alternative to the ground stud connection, the Equipment Bonding Jumper shall be attached to the front face of the hinge pocket with a 5/16-20 NC x 3/4" (in) S. S. bolt, (2) each S. S. nuts, and (2) each S. S. flat washers. Equipment Bonding Jumper shall be #8 AWG min. x 4' (ft) of tinned braided copper.
8. The System Identification letters shall be 1/8" (in) line thickness formed by a mild steel weld bead. See Cover Marking detail. Grind off diamond pattern before forming letters. See **Standard Specification 9-29.2(4)** for details.
9. See the **Standard Specifications** for alternative reinforcement and class of concrete.
10. See **Standard Plan J-40.10** for Welded Wire Fabric and Headed Anchor Shear Stud attachment details.
11. Capacity ~ conduit diameter = 24" (in)
12. Lid Bolt Down Attachment Tab provides a method of retrofitting by using a mechanical process in lieu of welding. Attachment Tab shown depicts a typical component arrangement; actual configurations of assembly will vary among manufacturers. See approved manufacturers' shop drawing for specifics.
13. Unless otherwise noted in the plans or approved by the Engineer, Junction Boxes, Cable Vaults and Pull Boxes shall not be placed within the sidewalk, walkway, shared use path, traveled way or paved shoulders. All Junction Boxes, Cable Vaults, and Pull Boxes placed within the traveled way or paved shoulders shall be Heavy-Duty.
14. Distance between the top of the conduit and the bottom of the Junction Box lid shall be 6" (in) min. to 8" (in) max. for final grade of new construction only. See **Standard Specification 8-20.3(5)**. Where adjustments are to be made to existing Junction Boxes, or for interim construction stages during the contract, the limits shall be from 6" (in) min. to 10" (in) max. See **Standard Specification 8-20.3(6)**.



**SECTION A**



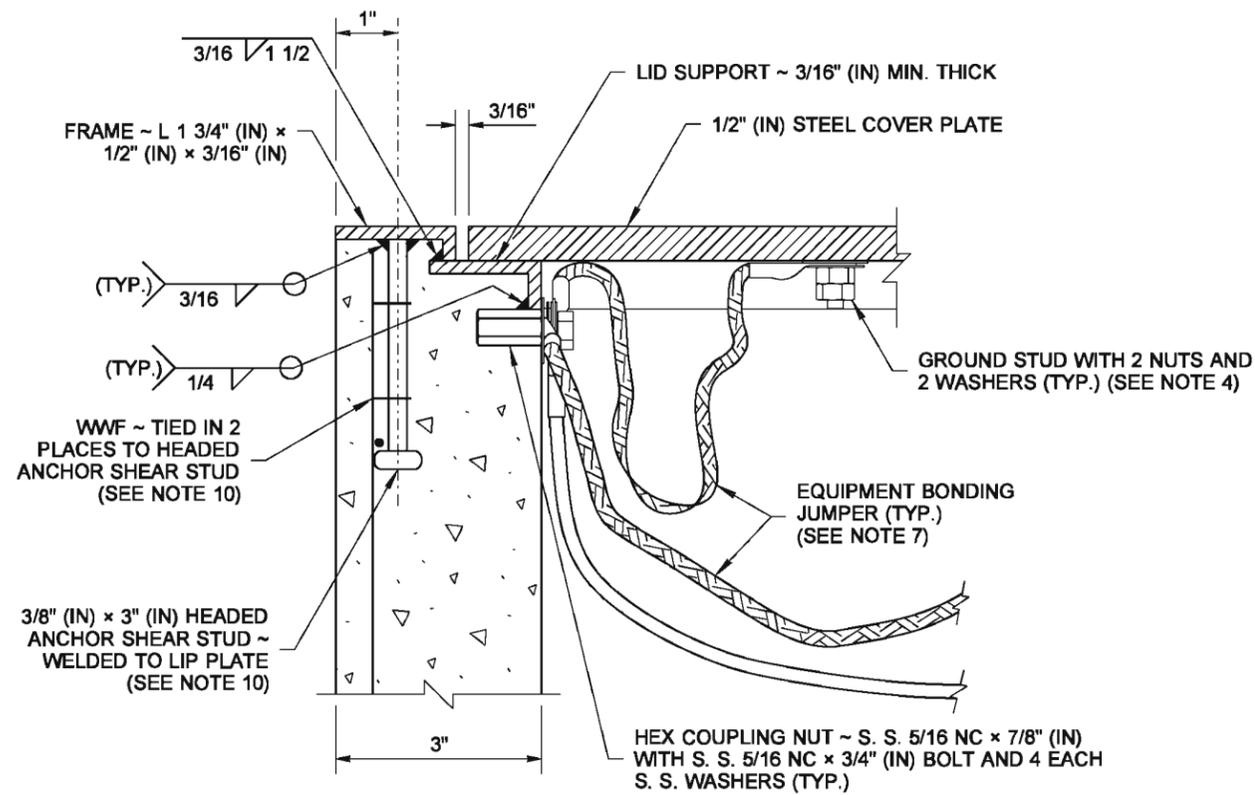
**SECTION B**  
CONDUITS NOT SHOWN



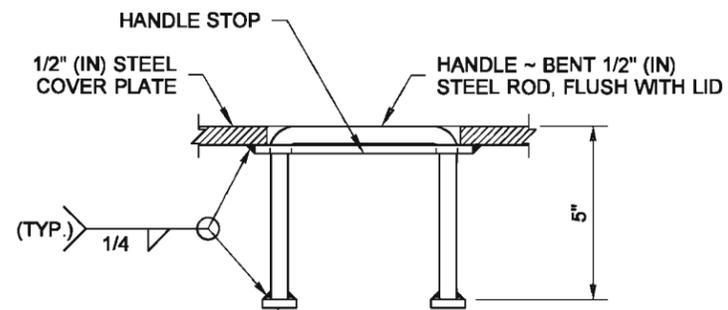
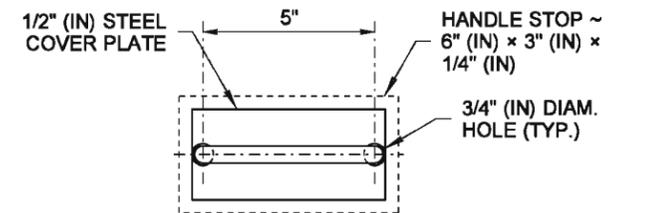
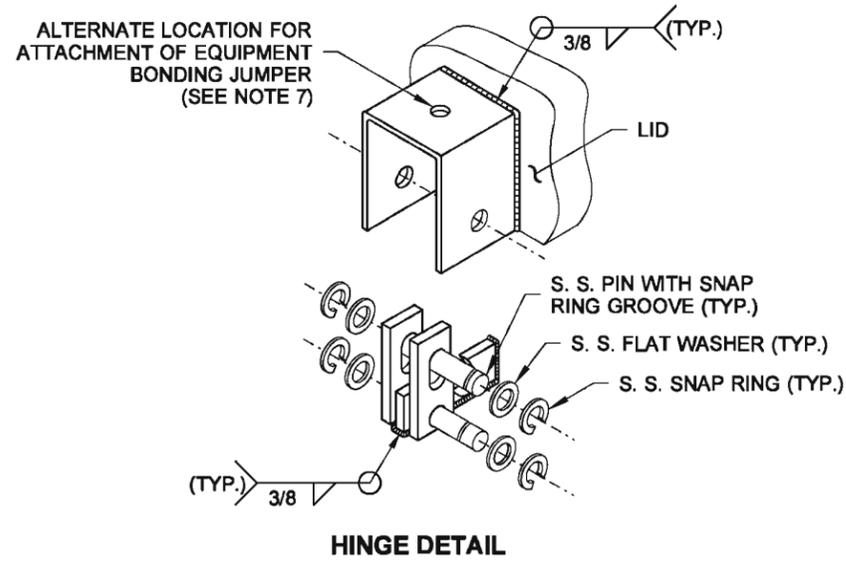
**LOCKING LID STANDARD DUTY JUNCTION BOX TYPE 8**  
**STANDARD PLAN J-40.30-04**

SHEET 1 OF 2 SHEETS

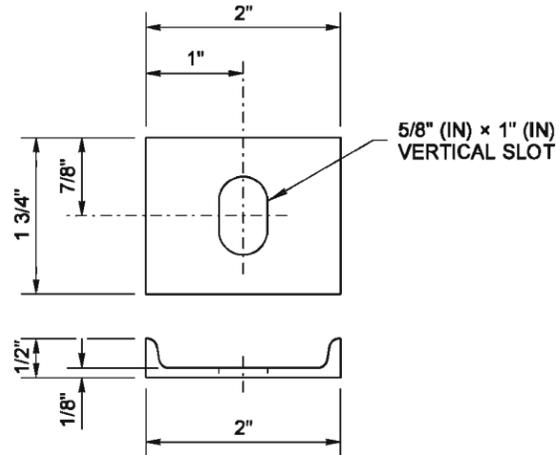
APPROVED FOR PUBLICATION



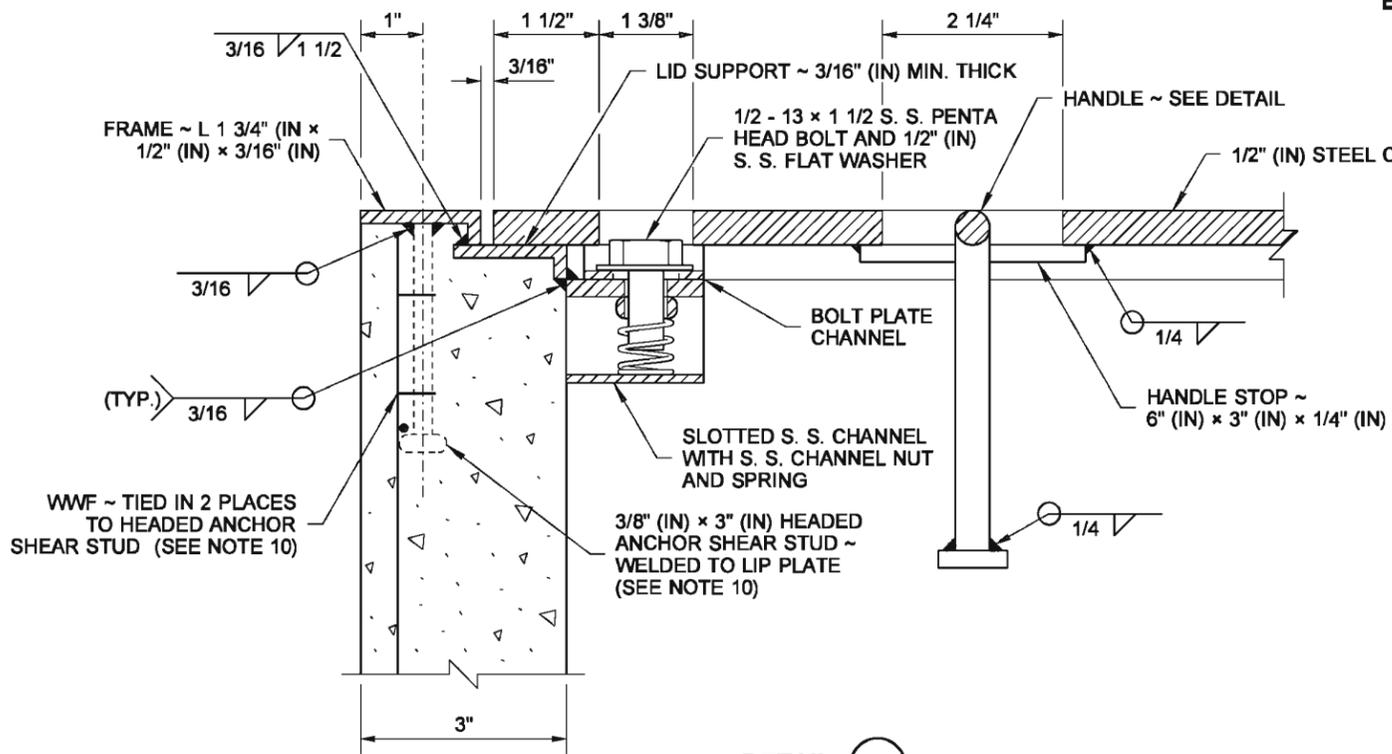
DETAIL C



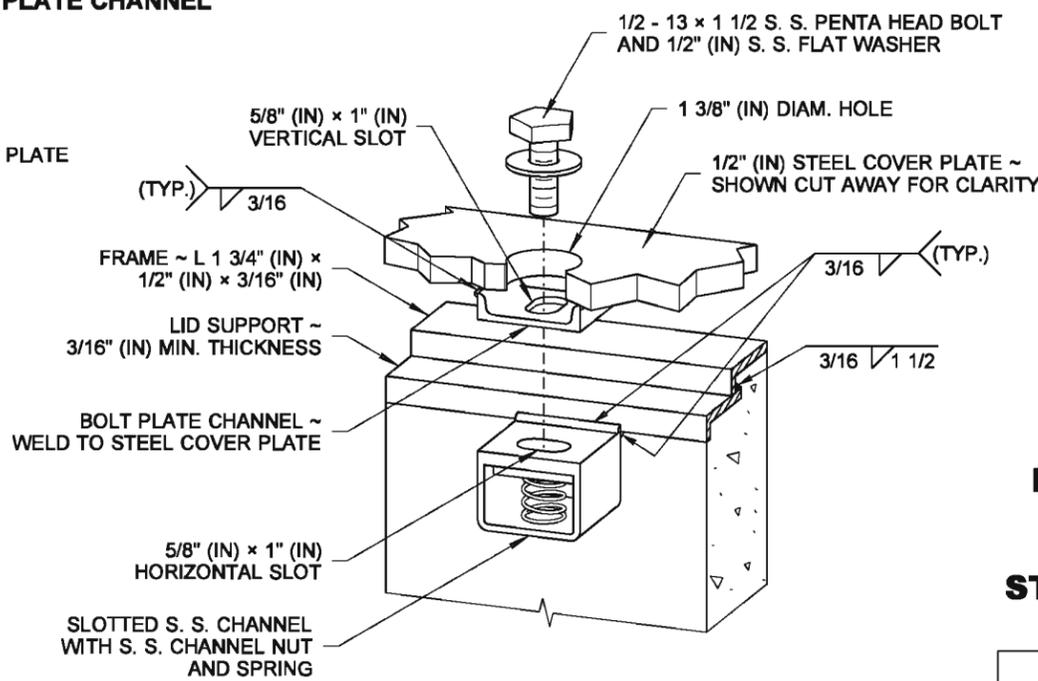
HANDLE DETAIL



BOLT PLATE CHANNEL



DETAIL D



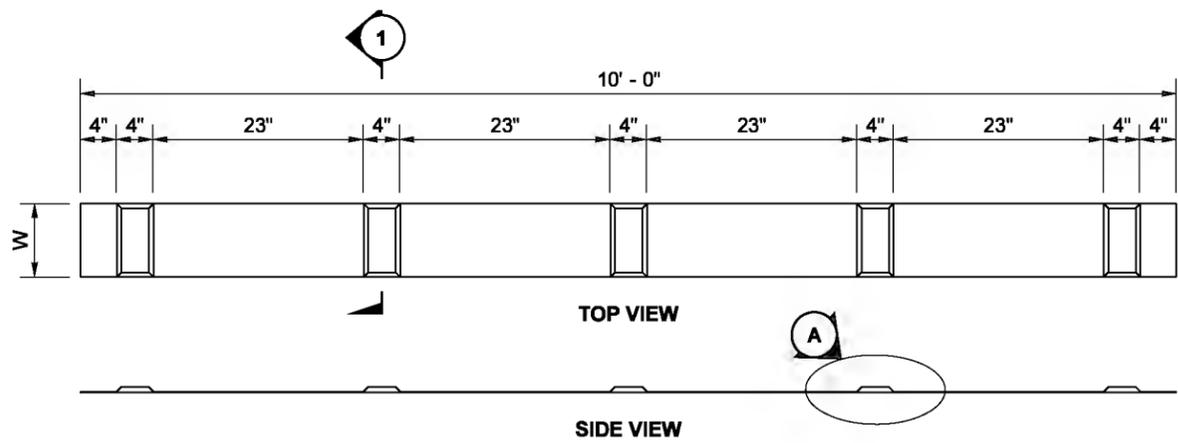
DETAIL D ISOMETRIC VIEW



**LOCKING LID STANDARD DUTY JUNCTION BOX TYPE 8 STANDARD PLAN J-40.30-04**

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

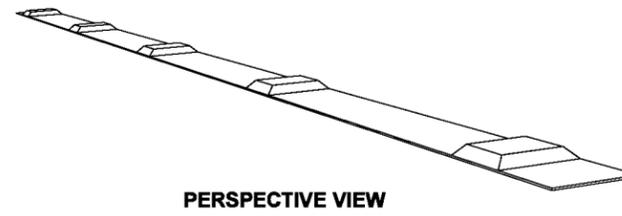


**PROFILED PLASTIC**  
(BROKEN LINE)

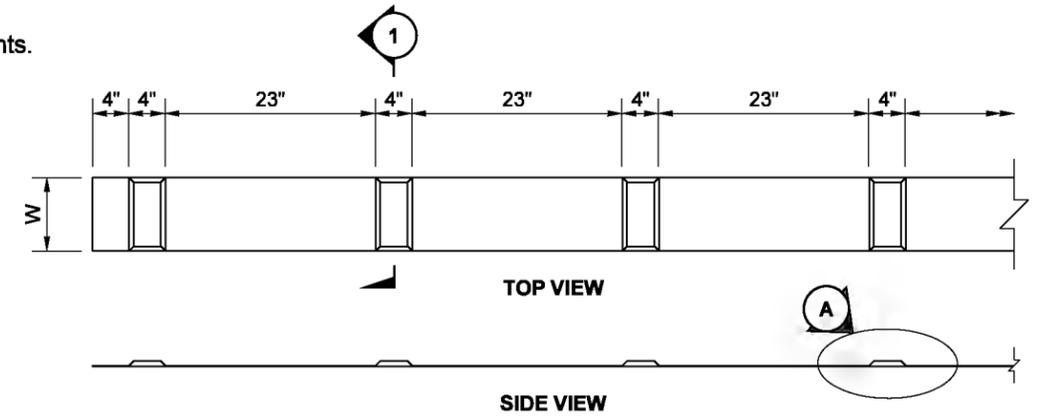
FOR: CENTERLINE & LANE LINE ~ W = 4"  
NO-PASS LINE & TWO-WAY LEFT-TURN CENTERLINE ~ W = 4"  
REVERSIBLE LANE LINE ~ W = 4"  
WIDE BROKEN LANE LINE ~ W = 8"

**GENERAL NOTE**

See Standard Plan M-20.10 for pattern and color requirements.

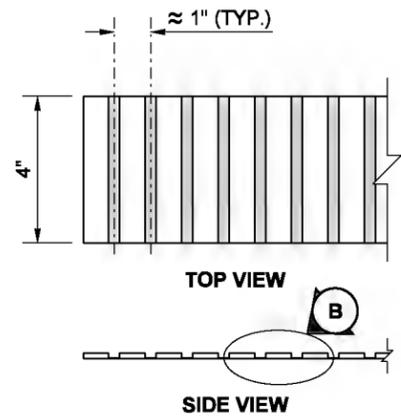


PERSPECTIVE VIEW



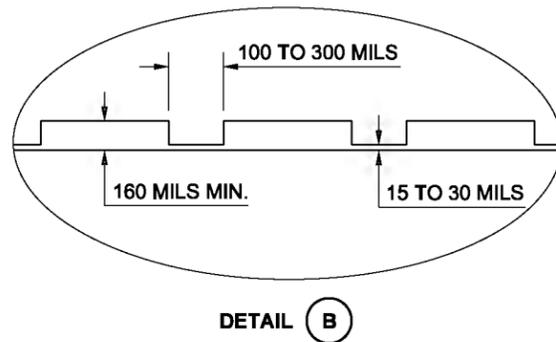
**PROFILED PLASTIC**  
(SOLID LINE)

FOR: NO-PASS LINE ~ W = 4"  
TWO-WAY LEFT-TURN CENTERLINE ~ W = 4"  
DOUBLE CENTERLINE & DOUBLE LANE LINE ~ W = 4"  
EDGE LINE & SOLID LANE LINE ~ W = 4"  
WIDE LANE LINE & WIDE LINE ~ W = 8"  
DOUBLE WIDE LANE LINE ~ W = 8"  
BARRIER CENTERLINE ~ W = 20"

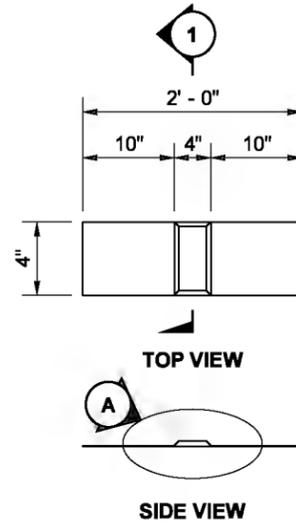


**EMBOSSD PLASTIC**  
(SOLID OR BROKEN LINE)

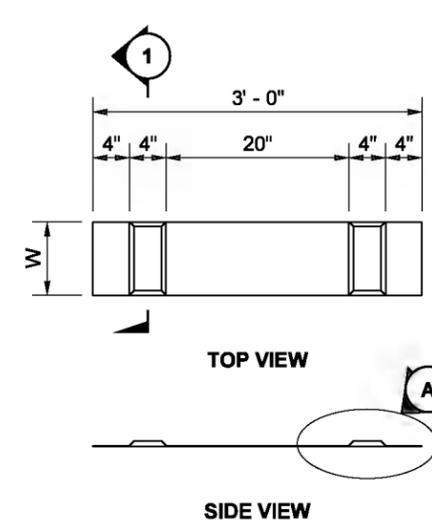
FOR: CENTERLINE & LANE LINE  
NO-PASS LINE & TWO-WAY LEFT-TURN CENTERLINE  
REVERSIBLE LANE LINE  
DOUBLE CENTERLINE & DOUBLE LANE LINE  
EDGE LINE & SOLID LANE LINE



DETAIL B

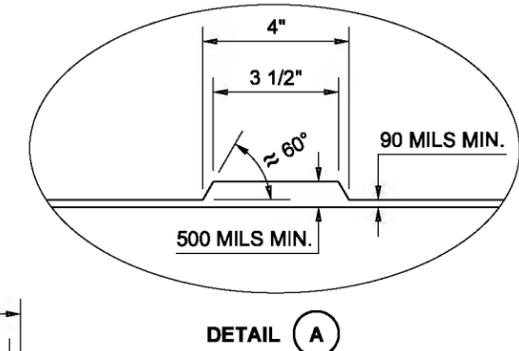


DOTTED EXTENSION LINE

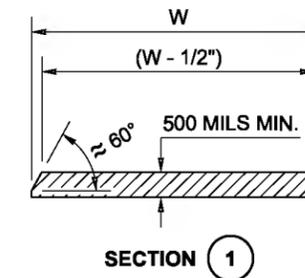


DOTTED LANE LINE ~ W = 4"  
WIDE DOTTED LANE LINE ~ W = 8"

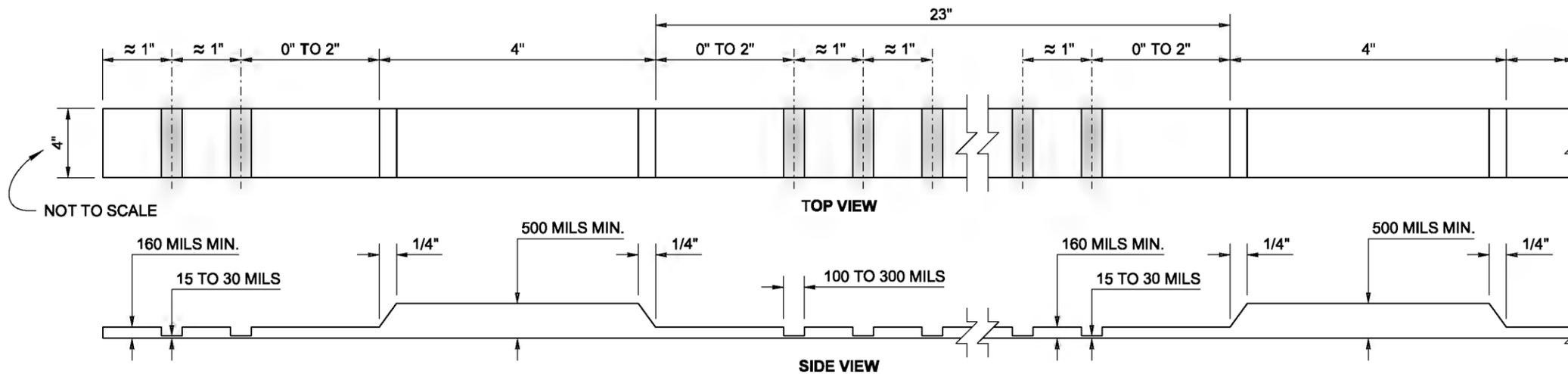
**PROFILED PLASTIC**  
(BROKEN LINE)



DETAIL A



SECTION 1



**PROFILED EMBOSSD PLASTIC**  
(SOLID OR BROKEN LINE)

FOR: CENTERLINE & LANE LINE  
NO-PASS LINE  
TWO-WAY LEFT-TURN CENTERLINE  
REVERSIBLE LANE LINE  
DOUBLE CENTERLINE & DOUBLE LANE LINE  
EDGE LINE & SOLID LANE LINE



**PROFILED AND EMBOSSD PLASTIC LINES**

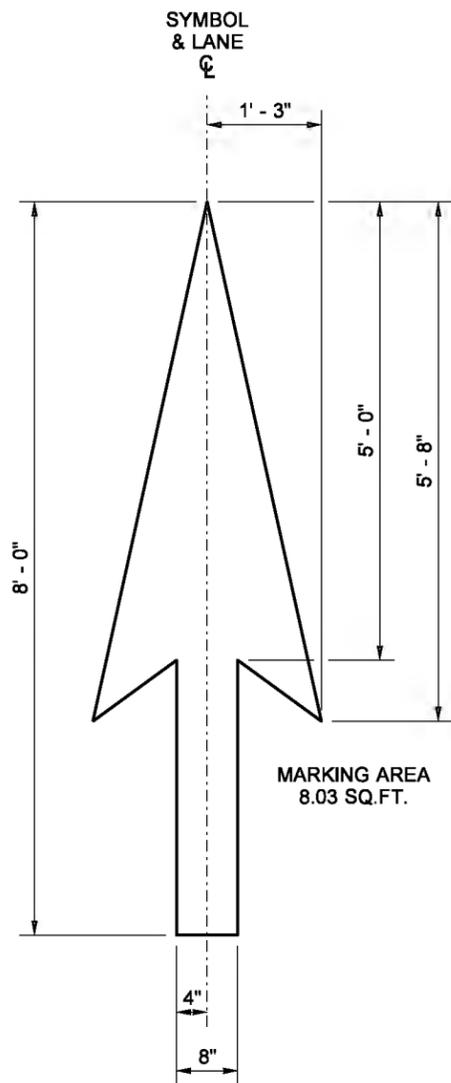
**STANDARD PLAN M-20.20-02**

SHEET 1 OF 1 SHEET

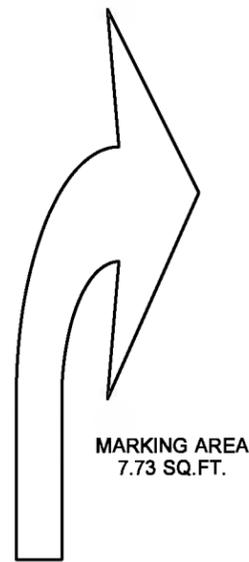
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER  
Washington State Department of Transportation

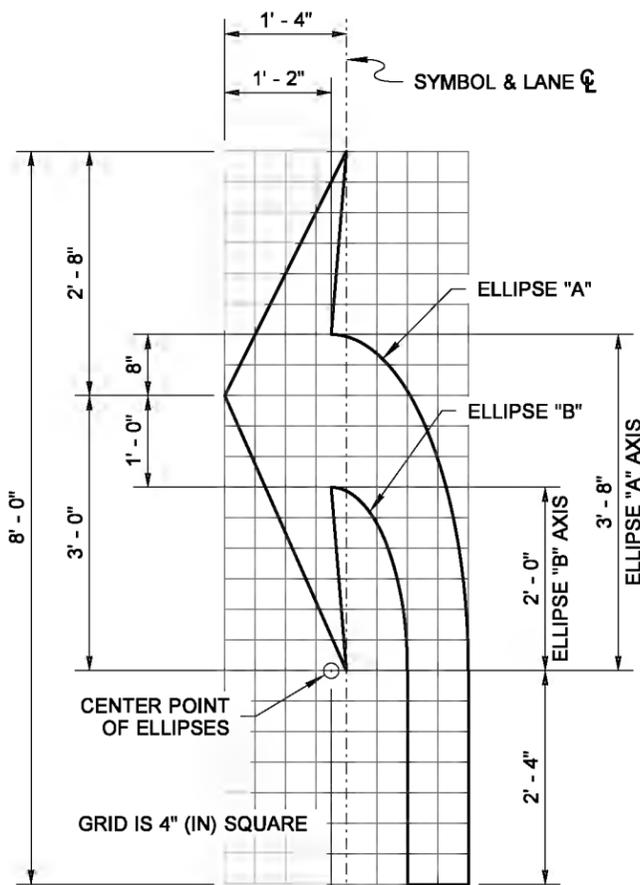
DRAWN BY: COLBY FLETCHER



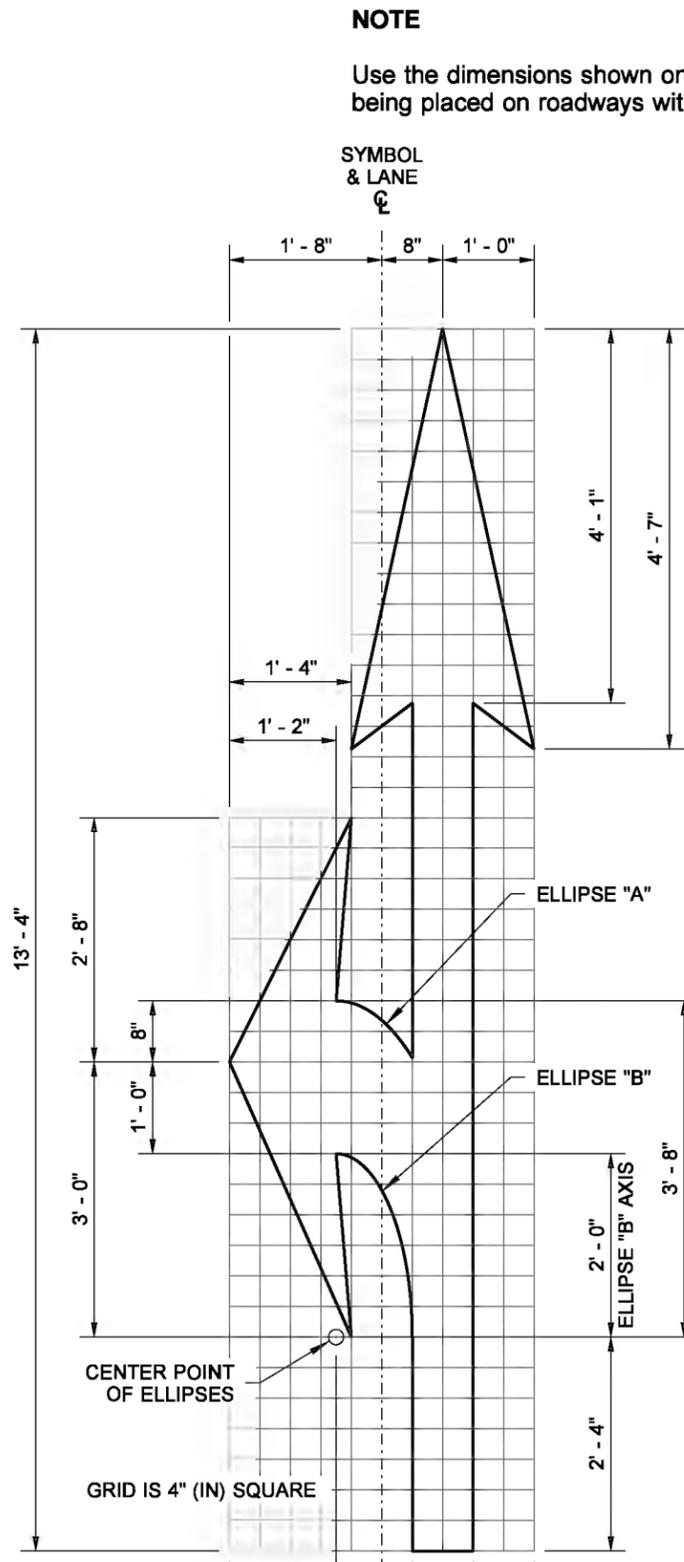
**TYPE 1S  
TRAFFIC ARROW**



**TYPE 2SR (RIGHT)  
TRAFFIC ARROW**  
MIRROR IMAGE OF  
TYPE 2SL TRAFFIC ARROW  
(SHOWN AT REDUCED SCALE)



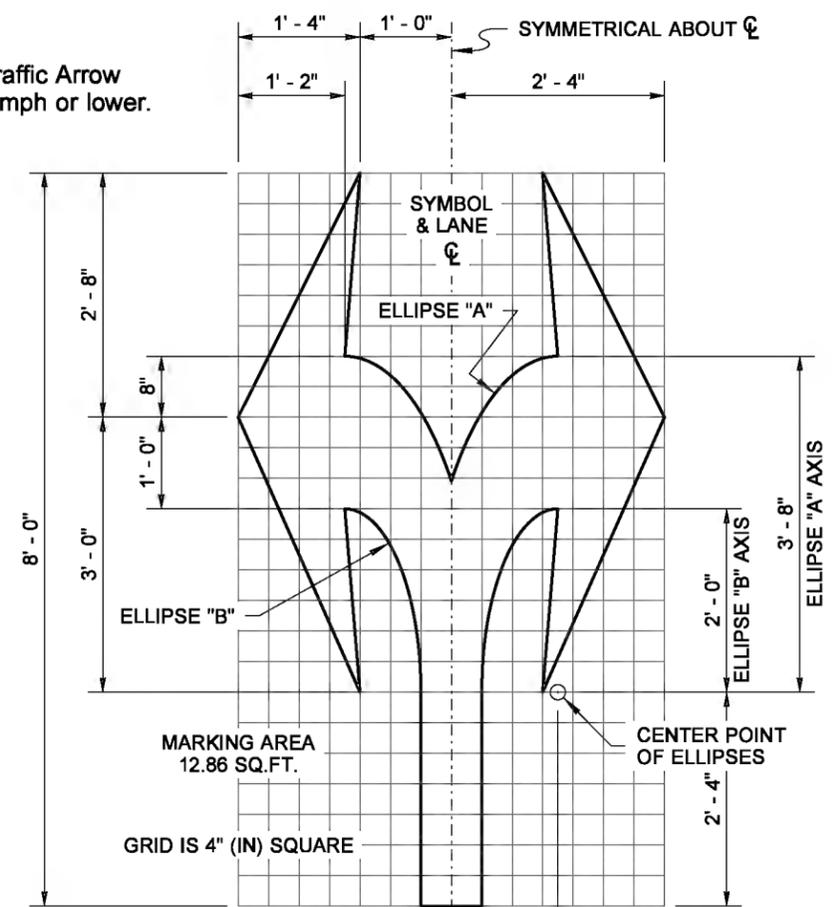
**TYPE 2SL (LEFT) TRAFFIC ARROW**



**TYPE 3SL (LEFT) TRAFFIC ARROW**



**TYPE 3SR (RIGHT)  
TRAFFIC ARROW**  
MIRROR IMAGE OF  
TYPE 3SL TRAFFIC ARROW  
(SHOWN AT REDUCED SCALE)



**TYPE 4S  
TRAFFIC ARROW**

**NOTE**

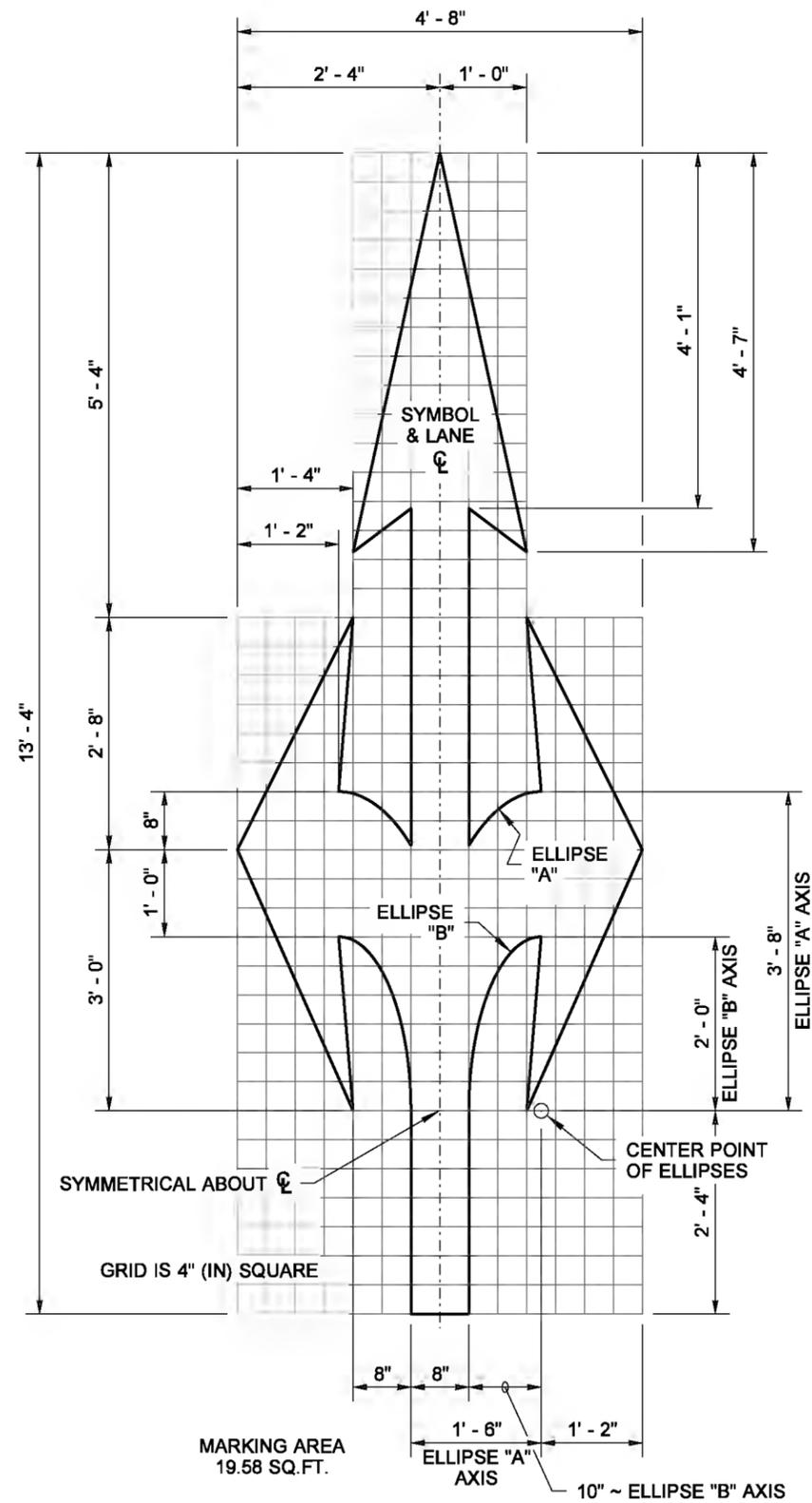
Use the dimensions shown on this plan for each type of Traffic Arrow being placed on roadways with a posted speed limit of 40 mph or lower.



**SYMBOL MARKINGS ~  
TRAFFIC ARROWS FOR  
LOW-SPEED ROADWAYS  
STANDARD PLAN M-24.40-02**

SHEET 1 OF 2 SHEETS

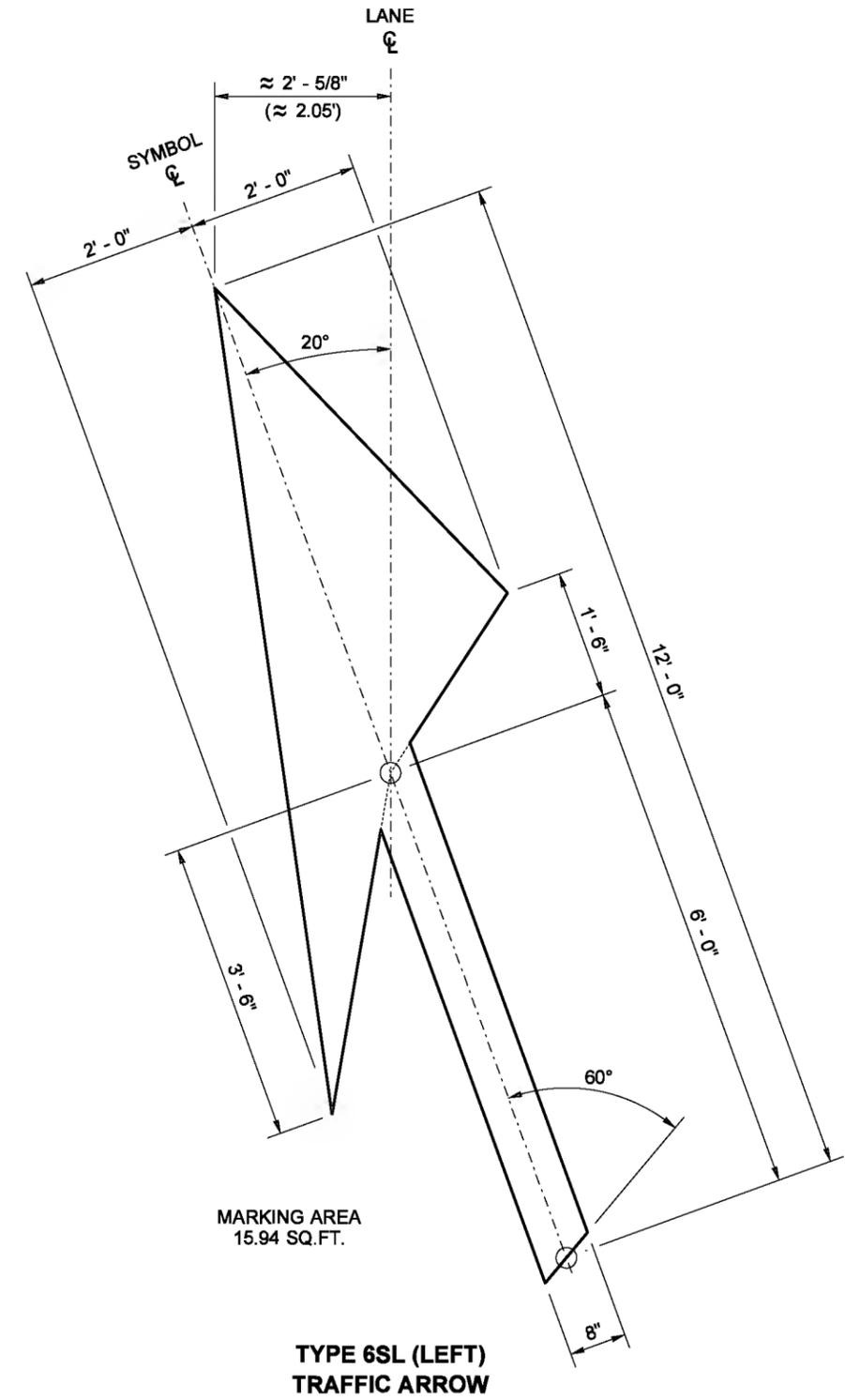
APPROVED FOR PUBLICATION



**TYPE 7S TRAFFIC ARROW**

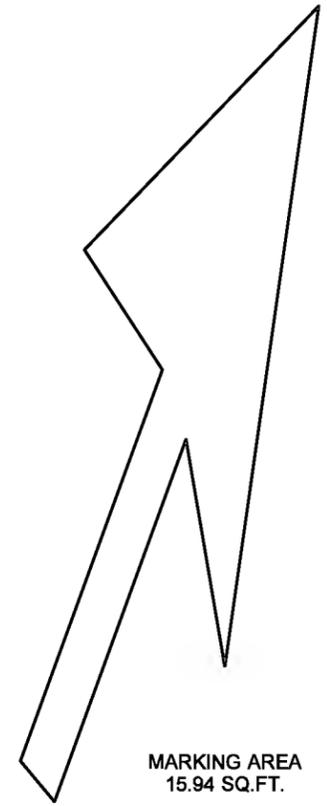
MARKING AREA  
19.58 SQ.FT.

DRAWN BY: COLBY FLETCHER



**TYPE 6SL (LEFT)  
TRAFFIC ARROW**

MARKING AREA  
15.94 SQ.FT.



**TYPE 6SR (RIGHT)  
TRAFFIC ARROW**

MIRROR IMAGE OF TYPE 6SL  
(MIRRORED ABOUT LANE CENTERLINE)  
(SHOWN AT REDUCED SCALE)



**SYMBOL MARKINGS ~  
TRAFFIC ARROWS FOR  
LOW-SPEED ROADWAYS  
STANDARD PLAN M-24.40-02**

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION



Catalog Number:  
**CP3A1111XAAGSL3**

120/240 VAC, 1-phase, 3-wire; 100 Amps Maximum, (see Service Disconnect circuit breakers rating)  
 Rainproof - Type 3R, Galvanized Steel (G90) Enclosure, painted MINT GREEN  
 Enclosed Industrial Control - Suitable ONLY for Use as Service Equipment  
 The short circuit current rating is 10,000 RMS symmetrical amperes maximum at 240volts maximum, in accordance with the table below, but is limited to the lowest short circuit rating of any installed circuit breaker. Watthour meter is not included in the short circuit rating. Replacement circuit breakers must be of the same type and rating.

**METERED CIRCUIT DIRECTORY**

No.	Amp.	Poles	Circuit Description
1	100	2	MAIN
2			
3			
4			
5			
6			

**UNSWITCHED METERED CIRCUIT DIRECTORY**

No.	Amp.	Poles	Circuit Description
1	60	2	SWITCHED LC
2			
3			
4			
5			
6	15	1	CONTROL

**SWITCHED METERED CIRCUIT DIRECTORY 1**

No.	Amp.	Poles	Circuit Description
1			
2			
3			
4			
5			
6			

**SWITCHED METERED CIRCUIT DIRECTORY 2**

No.	Amp.	Poles	Circuit Description
7			
8			
9			
10			
11			
12			

AIC RATING	MAIN	BRANCHES
10	MILBANK TYPE MBQ; SIEMENS TYPE BQ;	MILBANK TYPE: MQP; SIEMENS TYPE: QP (1-POLE 70A MAX), QT, QPF; CUTLER-HAMMER TYPE: BR, QFCB, HQP, QPGF; GE TYPE TQL, THQL, THQL-GF

Circuit breaker handle trip position is between "ON" and "OFF". To reset breaker, move handle to the full "OFF" position, then to full "ON".

**Terminal Information, Use AL/CU conductors**

FIELD WIRED CONNECTORS				BUS CONNECTIONS				For Equipment Ground ONLY, multiple conductors in a single opening are permissible as indicated below		
Socket Size	Torque Lb.-In.	SLOTTED HEAD SCREWS		THREADFORMING SCREWS		Torque, Lb.-In.	AWG Wire Size	Small Hole	Large Hole	
		AWG Wire Size	Torque, Lb.-In.	Small Hole	Large Hole					
5/16"	275	#14-10	20	35	10-24	AL	30			
3/8"	375	#8	25	40	10-24	CU	50	#14-10	1-2	
1/2"	500	#6	35	45	1/4-20	AL	50	#10	1	
9/16"	600	#4	-	45	1/4-20	CU	72	#8-6	1	
		#3-1/0	-	50				#4-1/0	1	

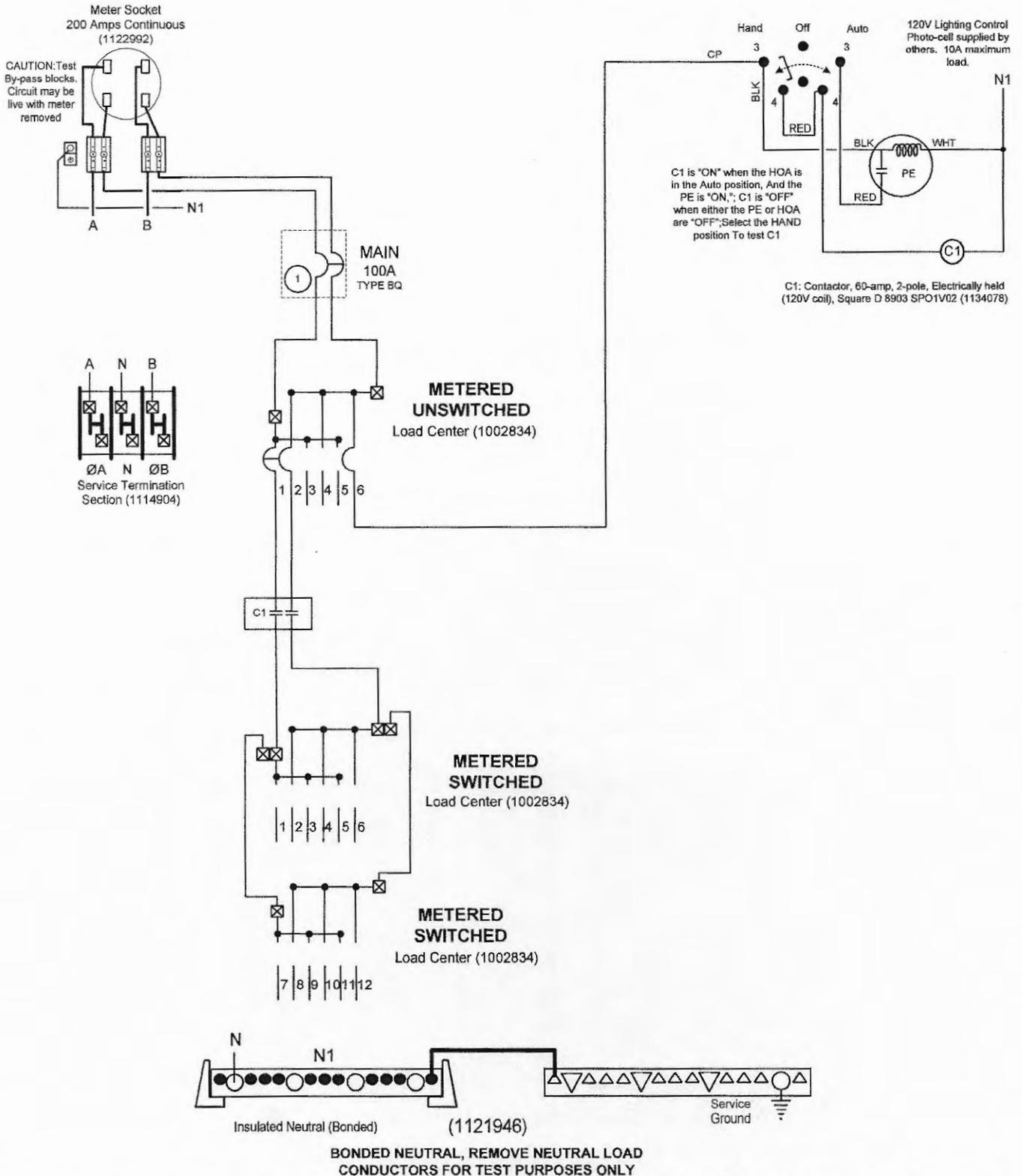
Shipping may loosen electrical connections. CHECK TIGHTNESS BEFORE ENERGIZING.

BONDED NEUTRAL – Remove neutral load conductors for test purposes only! FIELD INSTALLED conductors shall be 60°C, 75°C, or 90°C, sized to 60°C rating for 110 amps or less; and 75°C or 90°C for 125 amps and above.



Catalog Number:  
**CP3A1111XASL3**

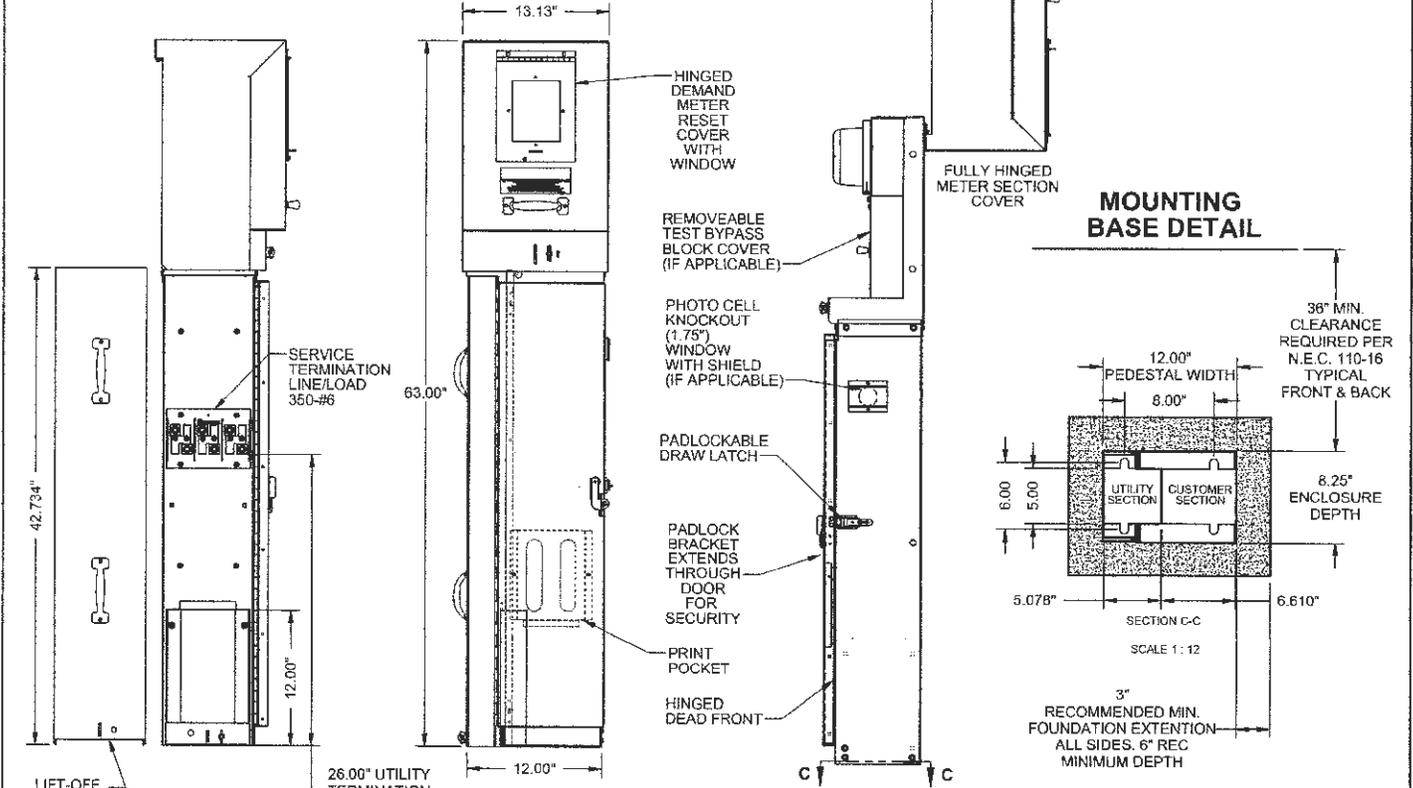
120/240 VAC, 1-phase, 3-wire; 100 Amps Maximum, (see Service Disconnect circuit breakers rating)  
 Rainproof - Type 3R, Galvanized Steel (G90) Enclosure, painted MINT GREEN  
 Enclosed Industrial Control - Suitable ONLY for Use as Service Equipment  
 Dead Front - 1189088



# CP3A111XASL3

A-Size CP3A Outline

## 12" COMMERCIAL PEDESTAL SLIM LINE 63 INCH TALL



Material:		<b>MILBANK</b> General Offices: 1000 W. 12th St. Kansas City, MO	
Finish:		Title: A-Size, 63T x 12W x 8.25D 12" WIDE METERED SLIM LINE PEDESTAL	
Tolerances: Unless Specified Otherwise XX ±.1 XXX ±.03 XXXX ±.015 X" ±.2"		Third Angle  Projection	
Scale: NTS		Checked By:	
Drawn By:		Approved By:	
* 10-10-12 FIRST DRAFT ** 04-14-13 FIRST RELEASE		Drawing No: <b>A-Size CP3A Outline</b> Date: 10-10-12 Sheet 1 of 2	

DRAWING APPROVAL REQUIRED

THE FOLLOWING DRAWING IS SUBMITTED FOR YOUR APPROVAL FOR INTERPRETIVE ACCURACY. BEFORE WE MAY PROCEED WITH MANUFACTURING THIS PRODUCT WE REQUEST THAT THE APPROPRIATE PERSONS REVIEW THIS DRAWING, SIGN & DATE THE DRAWING & RETURN THIS FORM AS APPROVAL OF THIS PRODUCT.

As of 11/1/16 the lead time for this unit is 4-6 weeks after receipt of this drawing with approval signature. Customer requested non-standard components can exceed 6 weeks.

Date 11/1/16  
Agent HEALY-MATTOS INC  
Distributor JAM SERVICES  
Job  
PO# 11627  
Quote # SQ146208  
Catalog # CP3A1111XASL3(REV 1)

Comments: \_\_\_\_\_

\_\_\_ Drawing is approved as is

\_\_\_ Requires changes

\_\_\_ Drawing not approved

Company Name \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

PLEASE FAX OR EMAIL APPROVAL TO YOUR LOCAL MILBANK SALES REP.

**PARTS LIST**

ITEM	DESCRIPTION	SIZE/SPECIFICATIONS	QTY/ POST	PART NUMBER
Model AP3, AP3.5, AP4, AP4.5 Includes Items 1-4 below.			1	SBMAP3, 3.5, 4, 4.5*
1	Bracket, Type AP3/AP3.5, AP4/AP4.5	6061-T6 Aluminum	2	
2	Bracket Adaptor, Type AP3, AP3.5, AP4, AP4.5	6061-T6 Aluminum	2	
2a	with Adaptor Ring, Type AP3, AP4	6061-T6 Aluminum	1	
3	Bracket Hardware Assembly, Type AP3, AP3.5, AP4, AP4.5, includes:		1	
3a	Bolt	12.7mm(1/2")-13UNC, Hex Head, ASTM A325, Galv. ASTM A153	4	
3b	LockWasher	12.7mm(1/2"), ANSI B18-21-1, Galv. ASTM A153	4	
3c	Nut	12.7mm(1/2")-13UNC, Heavy Hex, ASTM A563 Gr. DH, Galv. ASTM A153	4	
4	Coupling & Special Bolt Assembly, Type A, includes:		1	SB-CALP
4a	Special Bolt	15.9mm(5/8")-11UNC, ASTM A449, Galv. ASTM A153	4	
4b	Coupling	15.9mm(5/8")-11UNC, LP, AMS 6378D, Galv. ASTM A153, Polyester Coat	4	
4c	Shim	15.9mm(5/8") Horseshoe, 14 Gauge, Galv. Steel Sheet	2	
4d	Shim	15.9mm(5/8") Horseshoe, 18 Gauge, Galv. Steel Sheet	2	
5	Anchor Assembly, Type A, includes:		1	SBAAPK
5a	Anchor	15.9mm(5/8")-11UNC, 304 S.S. Ferrule, AISI 1038 Rod, AISI 1008 Coil	4	

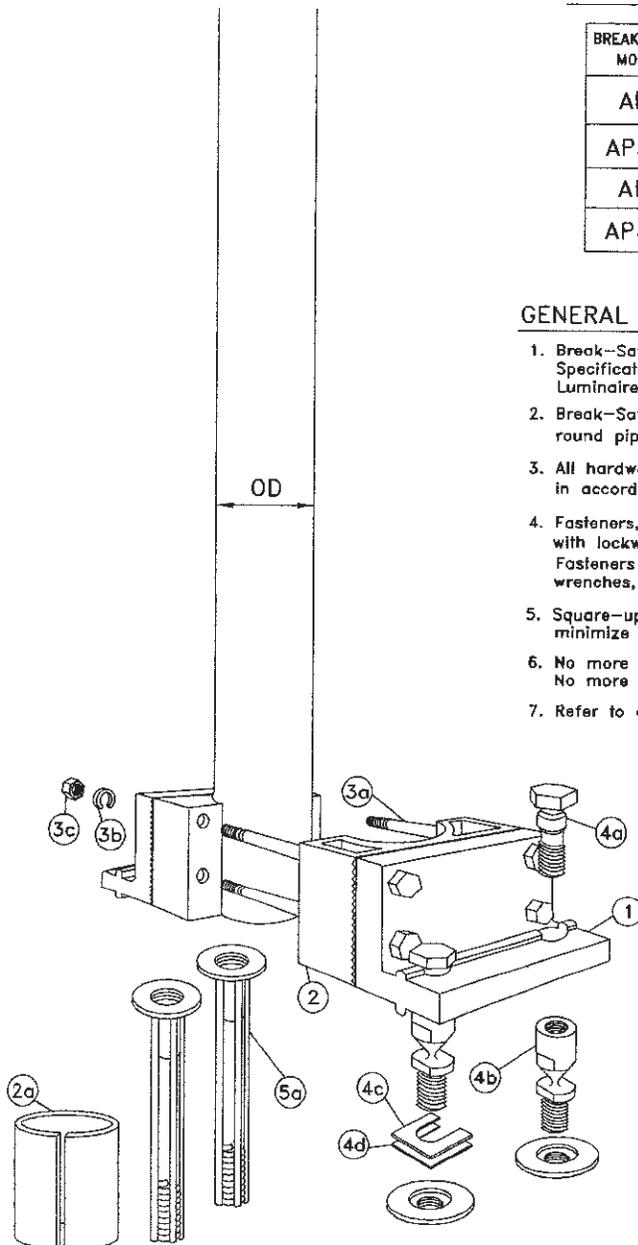
\*Complete assembly includes line items 1-4. Item 5, Anchors sold separately.

**BREAK-SAFE MODEL AP SELECTION TABLE**

BREAK-SAFE MODEL	PIPE OUTSIDE DIAMETER (OD)	NOMINAL SCH. 40 PIPE SIZE
AP3	73 mm (2-7/8")	2-1/2"
AP3.5	89 mm (3-1/2")	3"
AP4	102 mm (4")	3-1/2"
AP4.5	114 mm (4-1/2")	4"

**GENERAL NOTES:**

1. Break-Safe meets all requirements of "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals."
2. Break-Safe Model AP is designed to fit steel or aluminum round pipe signposts. See table above for pipe sizes.
3. All hardware items are American Standard sizes, galvanized in accordance with ASTM A153.
4. Fasteners, except for special bolt and coupling, are installed with lockwashers, and do not have specific torque requirements. Fasteners should be secured as tight as possible with conventional wrenches, unless noted otherwise.
5. Square-up and level individual components, particularly Anchors to minimize the need for shimming between the Couplings and Anchors.
6. No more than two shims shall be placed under any one coupling. No more than three shims underneath any pair of couplings.
7. Refer to other side of page for complete installation instructions.



**TRANSPO**® 20 Jones Street  
 INDUSTRIES, Inc. New Rochelle, NY 10801  
 914-636-1000  
 The Smart Solutions Company www.transpo.com

*Break-Safe Model AP*  
 Breakaway Support System for Sign Posts

Scale: Not To Scale

Date: January 2015

Drawing No. BS-AP

Sheet: 1 of 2

Patent Nos. 4,528,786 and 5,596,845

# INSTALLATION INSTRUCTIONS

## ANCHOR ASSEMBLY:

**Note:** Precise positioning of the anchors is critical to proper assembly of the system. It is recommended that actual posts be used to locate the correct position of the anchors.

1. Fabricate a flat, rigid template with four (4) 16mm (5/8") diameter holes located to match the specified anchor pattern of the Break-Safe Brackets attached to the signpost. See diagram below.
2. Attach four (4) Transpo Type A Female Anchors to the template using four (4) 16mm (5/8") diameter bolts. Ensure that each Anchor Washer is snug against the bottom of the template.
3. Lower Anchor Assembly into fresh concrete foundation, and vibrate into position such that the tops of the Anchor Washers are flush with the finished top surface of the foundation. Support the template such that all Anchors are level and in their proper locations.
4. Allow concrete to cure, and then remove the bolts and template from the top of the foundation.

## BRACKET ASSEMBLY:

1. Place Bracket Adaptors (& Adaptor Ring for Models AP3 & AP4) and Brackets squarely on the bottom of the post, such that the lower end of the post is flush with the bottom of both Bracket Adaptors.
2. Secure the Bracket assembly with bolts, lock washers, and nuts. Then, tighten all 1/2 turn beyond snug.
3. Adapter Ring Provided for AP3 and AP4. Slide Adapter Ring over pipe and secure bracket assembly to pipe.

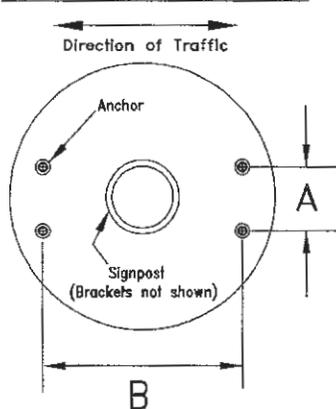
## COUPLING ASSEMBLY:

1. Thread four (4) Break-Safe Couplings into Anchors. Do not tighten.
2. Suspend post assembly over foundation, insert Special Bolts through holes in the Brackets, and thread them snug into the Couplings.
3. If post is not plumb, insert Shims (14g and/or 18g) between the Couplings and Anchors, where needed.
4. Use lower wrench flats to tighten Couplings into Anchors as tight as possible using a conventional wrench. Do not use a pipe wrench. Couplings must be seated squarely.
5. Tighten Special Bolts while holding Couplings by the upper wrench flats with an additional wrench to prevent an induced torque stress across the necked portion of the Coupling. All Special Bolts shall also be tightened as tight as possible using conventional wrenches.

## SIGN PANEL ASSEMBLY:

1. After all signposts are secured in place, attach sign panel assembly to posts in accordance with the sign manufacturer's recommendations.

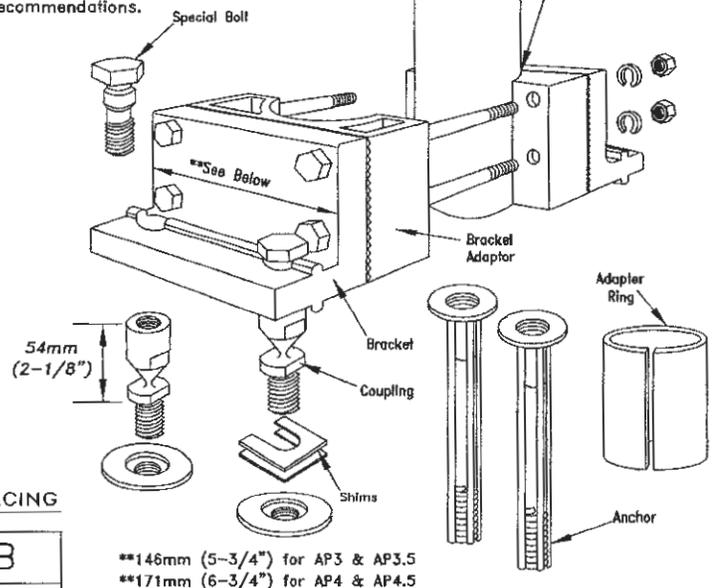
PLAN VIEW OF TYPICAL FOUNDATION



BREAK-SAFE MODEL AP ANCHOR SPACING

BREAK-SAFE MODEL	POST OUTSIDE DIAMETER (OD)	NOMINAL SCH 40 PIPE	A	B
AP3*	73 mm (2-7/8")	2-1/2"	70 mm (2-3/4")	202 mm (7-15/16")
AP3.5	89 mm (3-1/2")	3"	70 mm (2-3/4")	202 mm (7-15/16")
AP4*	102 mm (4")	3-1/2"	83 mm (3-1/4")	227 mm (8-15/16")
AP4.5	114 mm (4-1/2")	4"	83 mm (3-1/4")	227 mm (8-15/16")

\*Install supplied Adaptor Ring for Models AP3 & AP4.



**TRANSPO** 20 Jones Street  
INDUSTRIES, Inc. New Rochelle, NY 10801  
914-636-1000  
The Smart Solutions Company www.transpo.com

Break-Safe Model AP  
Breakaway Support System for Sign Posts

Scale: Not To Scale

Date: January 2015

Patent Nos. 4,528,786 and 5,596,845

Drawing No. BS-AP

Sheet: 2 of 2



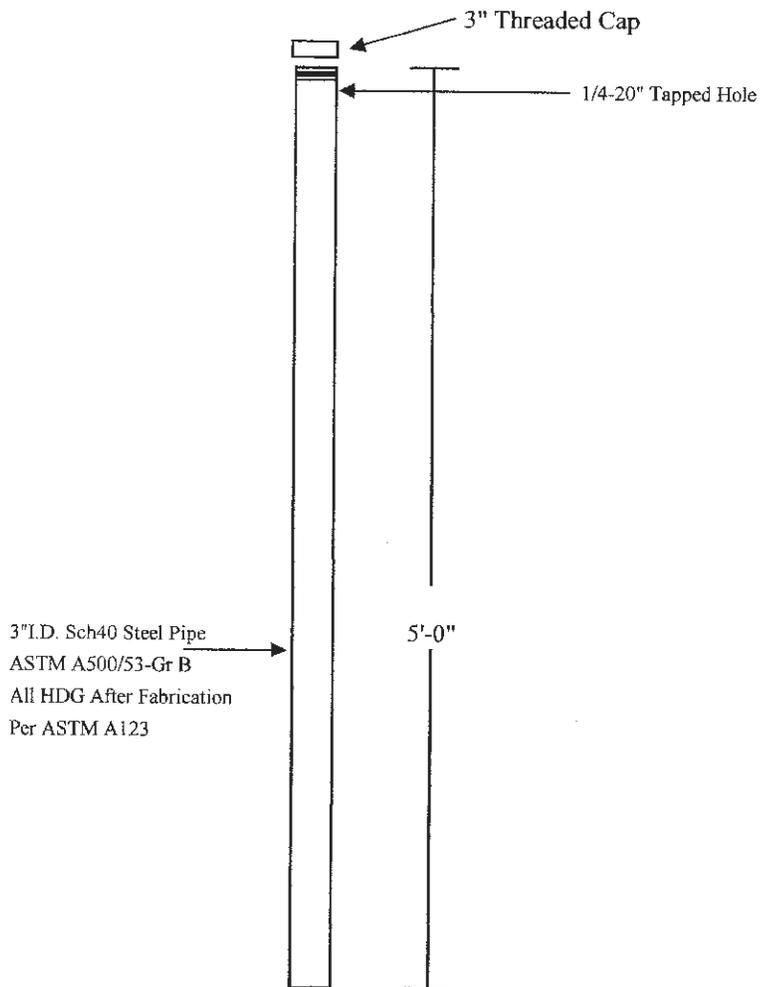
Garmire Iron Works, Inc.

5620-48th Drive N.E. • Marysville, WA 98270

(360) 651-1001 • Fax (360) 651-1002 • [garmireironworks@frontier.com](mailto:garmireironworks@frontier.com)

### PPB POST DETAIL

(NO SCALE)



- 11 **Except as provided in Section 2B.09, STOP signs and YIELD signs shall not be installed on different approaches to the same unsignalized intersection if those approaches conflict with or oppose each other.**
- 12 **Portable or part-time STOP or YIELD signs shall not be used except for emergency and temporary traffic control zone purposes.**
- 13 **A portable or part-time (folding) STOP sign that is manually placed into view and manually removed from view shall not be used during a power outage to control a signalized approach unless the maintaining agency establishes that the signal indication that will first be displayed to that approach upon restoration of power is a flashing red signal indication and that the portable STOP sign will be manually removed from view prior to stop-and-go operation of the traffic control signal.**
- Option:
- 14 A portable or part-time (folding) STOP sign that is electrically or mechanically operated such that it only displays the STOP message during a power outage and ceases to display the STOP message upon restoration of power may be used during a power outage to control a signalized approach.
- Support:
- 15 Section 9B.03 contains provisions regarding the assignment of priority at a shared-use path/roadway intersection.

### **Section 2B.05 STOP Sign (R1-1) and ALL WAY Plaque (R1-3P)**

#### **Standard:**

- 01 **When it is determined that a full stop is always required on an approach to an intersection, a STOP (R1-1) sign (see Figure 2B-1) shall be used.**
- 02 **The STOP sign shall be an octagon with a white legend and border on a red background.**
- 03 **Secondary legends shall not be used on STOP sign faces.**
- 04 **At intersections where all approaches are controlled by STOP signs (see Section 2B.07), an ALL WAY supplemental plaque (R1-3P) shall be mounted below each STOP sign. The ALL WAY plaque (see Figure 2B-1) shall have a white legend and border on a red background.**
- 05 **The ALL WAY plaque shall only be used if all intersection approaches are controlled by STOP signs.**
- 06 **Supplemental plaques with legends such as 2-WAY, 3-WAY, 4-WAY, or other numbers of ways shall not be used with STOP signs.**

#### **Support:**

- 07 The use of the CROSS TRAFFIC DOES NOT STOP (W4-4P) plaque (and other plaques with variations of this word message) is described in Section 2C.59.

#### *Guidance:*

- 08 *Plaques with the appropriate alternative messages of TRAFFIC FROM LEFT (RIGHT) DOES NOT STOP (W4-4aP) or ONCOMING TRAFFIC DOES NOT STOP (W4-4bP) should be used at intersections where STOP signs control all but one approach to the intersection, unless the only non-stopped approach is from a one-way street.*

#### **Option:**

- 09 An EXCEPT RIGHT TURN (R1-10P) plaque (see Figure 2B-1) may be mounted below the STOP sign if an engineering study determines that a special combination of geometry and traffic volumes is present that makes it possible for right-turning traffic on the approach to be permitted to enter the intersection without stopping.

#### **Support:**

- 10 The design and application of Stop Beacons are described in Section 4L.05.

**Figure 2B-1. STOP and YIELD Signs and Plaques**



**Section 2B.28 DO NOT PASS Sign (R4-1)**

Option:

01 The Do Not Pass (R4-1) sign (see Figure 2B-10) may be used in addition to pavement markings (see Section 3B.02) to emphasize the restriction on passing. The Do Not Pass sign may be used at the beginning of, and at intervals within, a zone through which sight distance is restricted or where other conditions make overtaking and passing inappropriate.

02 If signing is needed on the left-hand side of the roadway for additional emphasis, NO PASSING ZONE (W14-3) signs may be used (see Section 2C.45).

Support:

03 Standards for determining the location and extent of no-passing zone pavement markings are set forth in Section 3B.02.

**Figure 2B-10. Passing, Keep Right, and Slow Traffic Signs**

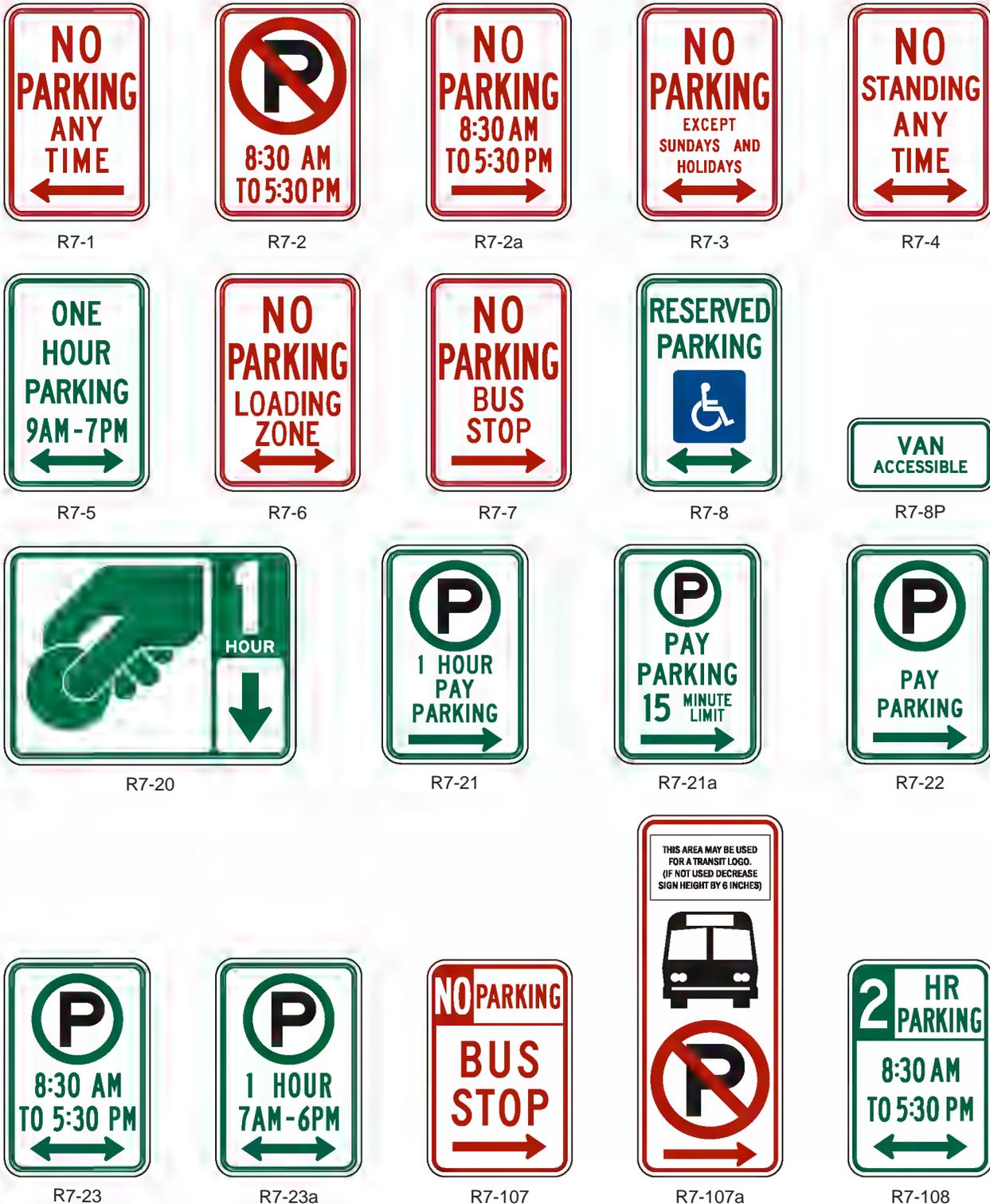


**Section 2B.46 Parking, Standing, and Stopping Signs (R7 and R8 Series)**

Support:

01 Signs governing the parking, stopping, and standing of vehicles cover a wide variety of regulations, and only general guidance can be provided here. The word “standing” when used on the R7 and R8 series of signs refers to the practice of a driver keeping the vehicle in a stationary position while continuing to occupy the vehicle. Typical examples of parking, stopping, and standing signs and plaques (see Figures 2B-24 and 2B-25) are as follows:

**Figure 2B-24. Parking and Standing Signs and Plaques (R7 Series) (Sheet 1 of 2)**



**Standard:**

- 11 The Emergency Vehicle (W11-8) sign (see Figure 2C-10) with the EMERGENCY SIGNAL AHEAD (W11-12P) supplemental plaque (see Figure 2C-10) shall be placed in advance of all emergency-vehicle traffic control signals (see Chapter 4G).

**Option:**

- 12 The Emergency Vehicle (W11-8) sign, or a word message sign indicating the type of emergency vehicle (such as rescue squad), may be used in advance of the emergency-vehicle station when no emergency-vehicle traffic control signal is present.
- 13 A Warning Beacon (see Section 4L.03) may be used with any Vehicular Traffic Warning sign to indicate specific periods when the condition or activity is present or is likely to be present, or to provide enhanced sign conspicuity.
- 14 A supplemental WHEN FLASHING (W16-13P) plaque (see Figure 2C-12) may be used with any Vehicular Traffic Warning sign that is supplemented with a Warning Beacon to indicate specific periods when the condition or activity is present or is likely to be present.

**Section 2C.50 Non-Vehicular Warning Signs (W11-2, W11-3, W11-4, W11-6, W11-7, W11-9, and W11-16 through W11-22)****Option:**

- 01 Non-Vehicular Warning (W11-2, W11-3, W11-4, W11-6, W11-7, W11-9, and W11-16 through W11-22) signs (see Figure 2C-11) may be used to alert road users in advance of locations where unexpected entries into the roadway might occur or where shared use of the roadway by pedestrians, animals, or equestrians might occur.

**Support:**

- 02 These conflicts might be relatively confined, or might occur randomly over a segment of roadway.

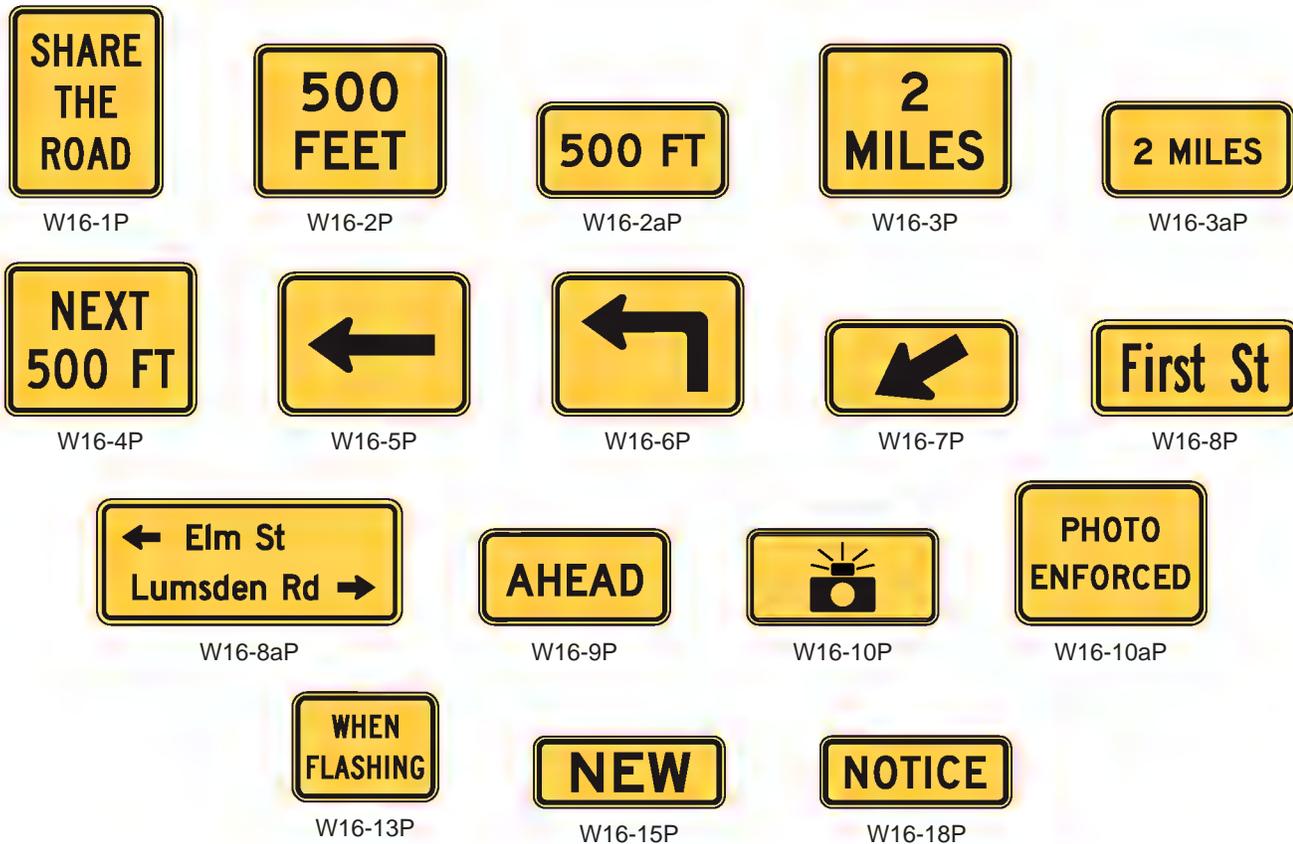
**Guidance:**

- 03 If used in advance of a pedestrian, snowmobile, or equestrian crossing, the W11-2, W11-6, W11-7, and W11-9 signs should be supplemented with plaques (see Section 2C.55) with the legend AHEAD or XX FEET to inform road users that they are approaching a point where crossing activity might occur.

**Figure 2C-11. Non-Vehicular Warning Signs**

\* A fluorescent yellow-green background color may be used for this sign or plaque.

Figure 2C-12. Supplemental Warning Plaques



Note: The background color (yellow or fluorescent yellow-green) shall match the color of the warning sign that it supplements.

#### Standard:

- 02 Supplemental warning plaques shall be used only in combination with warning or regulatory signs. They shall not be mounted alone or displayed alone. If used, a supplemental warning plaque shall be installed on the same post(s) as the warning or regulatory sign that it supplements.
- 03 Unless otherwise provided in this Manual for a particular plaque, supplemental warning plaques shall be mounted below the sign they supplement.

#### Section 2C.54 Design of Supplemental Warning Plaques

##### Standard:

- 01 A supplemental warning plaque used with a warning sign shall have the same legend, border, and background color as the warning sign with which it is displayed. A supplemental warning plaque used with a regulatory sign shall have a black legend and border on a yellow background.
- 02 Supplemental warning plaques shall be square or rectangular.

#### Section 2C.55 Distance Plaques (W16-2 Series, W16-3 Series, W16-4P, W7-3aP)

##### Option:

- 01 The Distance Ahead (W16-2 series and W16-3 series) plaques (see Figure 2C-12) may be used to inform the road user of the distance to the condition indicated by the warning sign.
- 02 The Next Distance (W7-3aP and W16-4P) plaques (see Figures 2C-4 and 2C-12) may be used to inform road users of the length of roadway over which the condition indicated by the warning sign exists.

#### Section 2C.56 Supplemental Arrow Plaques (W16-5P, W16-6P)

##### Guidance:

- 01 If the condition indicated by a warning sign is located on an intersecting road and the distance between the intersection and condition is not sufficient to provide adequate advance placement of the warning sign, a Supplemental Arrow (W16-5P or W16-6P) plaque (see Figure 2C-12) should be used below the warning sign.

Figure 2C-6. Roadway and Weather Condition and Advance Traffic Control Signs and Plaques

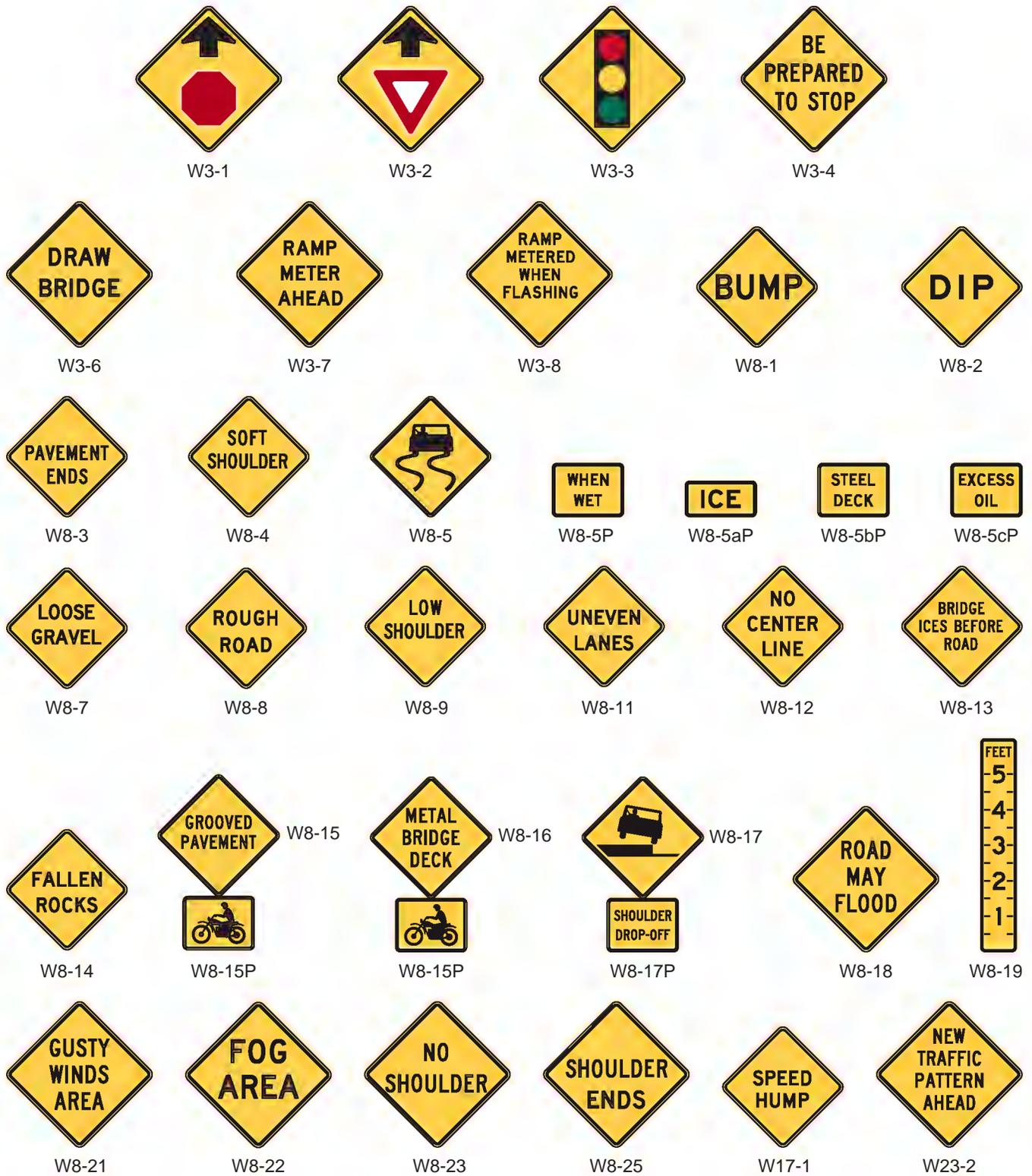


Table 2C-2. Warning Sign and Plaque Sizes (Sheet 1 of 3)

Sign or Plaque	Sign Designation	Section	Conventional Road		Expressway	Freeway	Minimum	Oversized
			Single Lane	Multi-Lane				
Horizontal Alignment	W1-1,2,3,4,5	2C.07	30 x 30*	36 x 36	36 x 36	36 x 36	—	48 x 48
Combination Horizontal Alignment/Advisory Speed	W1-1a,2a	2C.10	36 x 36	36 x 36	48 x 48	48 x 48	—	48 x 48
One-Direction Large Arrow	W1-6	2C.12	48 x 24	48 x 24	60 x 30	60 x 30	—	60 x 30
Two-Direction Large Arrow	W1-7	2C.47	48 x 24	48 x 24	—	—	—	60 x 30
Chevron Alignment	W1-8	2C.09	18 x 24	18 x 24	30 x 36	36 x 48	—	24 x 30
Combination Horizontal Alignment/Intersection	W1-10,10a,10b,10c,10d,10e	2C.11	36 x 36	36 x 36	36 x 36	48 x 48	—	—
Hairpin Curve	W1-11	2C.07	30 x 30	30 x 30	36 x 36	48 x 48	—	48 x 48
Truck Rollover	W1-13	2C.13	36 x 36	36 x 36	36 x 36	48 x 48	—	36 x 36
270-degree Loop	W1-15	2C.07	30 x 30	30 x 30	36 x 36	48 x 48	—	48 x 48
Intersection Warning	W2-1,2,3,4,5,6,7,8	2C.46	30 x 30	30 x 30	36 x 36	—	24 x 24	48 x 48
Advanced Traffic Control	W3-1,2,3	2C.36	30 x 30	30 x 30	48 x 48	48 x 48	30 x 30	—
Be Prepared to Stop	W3-4	2C.36	36 x 36	36 x 36	48 x 48	48 x 48	30 x 30	—
Reduced Speed Limit Ahead	W3-5	2C.38	36 x 36	36 x 36	48 x 48	48 x 48	—	—
XX MPH Speed Zone Ahead	W3-5a	2C.38	36 x 36	36 x 36	48 x 48	48 x 48	—	—
Draw Bridge	W3-6	2C.39	36 x 36	36 x 36	48 x 48	—	—	60 x 60
Ramp Meter Ahead	W3-7	2C.37	36 x 36	36 x 36	—	—	—	—
Ramp Metered When Flashing	W3-8	2C.37	36 x 36	36 x 36	—	—	—	—
Merge	W4-1	2C.40	36 x 36	36 x 36	48 x 48	48 x 48	30 x 30*	—
Lane Ends	W4-2	2C.42	36 x 36	36 x 36	48 x 48	48 x 48	30 x 30*	—
Added Lane	W4-3	2C.41	36 x 36	36 x 36	48 x 48	48 x 48	30 x 30*	—
Cross Traffic Does Not Stop (plaque)	W4-4P	2C.59	24 x 12	24 x 12	36 x 18	—	—	48 x 24
Traffic From Left (Right) Does Not Stop (plaque)	W4-4aP	2C.59	24 x 12	24 x 12	36 x 18	—	—	48 x 24
Oncoming Traffic Does Not Stop (plaque)	W4-4bP	2C.59	24 x 12	24 x 12	36 x 18	—	—	48 x 24
Entering Roadway Merge	W4-5	2C.40	36 x 36	36 x 36	48 x 48	—	—	—
No Merge Area (plaque)	W4-5P	2C.40	18 x 24	18 x 24	24 x 30	—	—	—
Entering Roadway Added Lane	W4-6	2C.41	36 x 36	36 x 36	48 x 48	—	—	—
Road Narrows	W5-1	2C.19	36 x 36	36 x 36	48 x 48	48 x 48	30 x 30*	—
Narrow Bridge	W5-2	2C.20	36 x 36	36 x 36	48 x 48	48 x 48	30 x 30*	—
One Lane Bridge	W5-3	2C.21	36 x 36	36 x 36	48 x 48	48 x 48	30 x 30*	—
Divided Highway	W6-1	2C.22	36 x 36	36 x 36	48 x 48	48 x 48	—	—
Divided Highway Ends	W6-2	2C.23	36 x 36	36 x 36	48 x 48	48 x 48	—	—
Two-Way Traffic	W6-3	2C.44	36 x 36	36 x 36	48 x 48	48 x 48	—	—
Hill	W7-1	2C.16	30 x 30*	36 x 36	36 x 36	36 x 36	24 x 24*	48 x 48
Hill with Grade	W7-1a	2C.16	30 x 30*	36 x 36	36 x 36	36 x 36	24 x 24*	48 x 48
Use Low Gear (plaque)	W7-2P	2C.57	24 x 18	24 x 18	—	—	—	—
Trucks Use Lower Gear (plaque)	W7-2bP	2C.57	24 x 18	24 x 18	—	—	—	—
XX% Grade (plaque)	W7-3P	2C.57	24 x 18	24 x 18	—	—	—	—
Next XX Miles (plaque)	W7-3aP	2C.55	24 x 18	24 x 18	—	—	—	—
XX% Grade, XX Miles (plaque)	W7-3bP	2C.57	24 x 18	24 x 18	—	—	—	—
Runaway Truck Ramp XX Miles	W7-4	2C.17	78 x 48	78 x 48	78 x 48	78 x 48	—	—
Runaway Truck Ramp (with arrow)	W7-4b	2C.17	78 x 60	78 x 60	78 x 60	78 x 60	—	—
Truck Escape Ramp	W7-4c	2C.17	78 x 60	78 x 60	78 x 60	78 x 60	—	—
Sand, Gravel, Paved (plaques)	W7-4dP,4eP,4fP	2C.17	24 x 12	24 x 12	24 x 12	24 x 12	—	—
Hill Blocks View	W7-6	2C.18	30 x 30*	36 x 36	36 x 36	—	—	48 x 48
Bump or Dip	W8-1,2	2C.28	30 x 30*	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48

Table 2C-2. Warning Sign and Plaque Sizes (Sheet 2 of 3)

Sign or Plaque	Sign Designation	Section	Conventional Road		Expressway	Freeway	Minimum	Oversized
			Single Lane	Multi-Lane				
Pavement Ends	W8-3	2C.30	36 x 36	36 x 36	48 x 48	—	30 x 30*	—
Soft Shoulder	W8-4	2C.31	36 x 36	36 x 36	48 x 48	48 x 48	24 x 24*	48 x 48
Slippery When Wet	W8-5	2C.32	30 x 30*	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Road Condition (plaques)	W8-5P,5bP,5cP	2C.32	24 x 18	24 x 18	30 x 24	36 x 30	—	36 x 30
Ice	W8-5aP	2C.32	24 x 12	24 x 12	30 x 18	30 x 18	—	—
Truck Crossing	W8-6	2C.49	36 x 36	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Loose Gravel	W8-7	2C.32	36 x 36	36 x 36	36 x 36	—	24 x 24*	48 x 48
Rough Road	W8-8	2C.32	36 x 36	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Low Shoulder	W8-9	2C.31	36 x 36	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Uneven Lanes	W8-11	2C.32	36 x 36	36 x 36	36 x 36	48 x 48	—	48 x 48
No Center Line	W8-12	2C.34	36 x 36	36 x 36	36 x 36	48 x 48	—	—
Bridge Ices Before Road	W8-13	2C.32	36 x 36	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Fallen Rocks	W8-14	2C.32	30 x 30*	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Grooved Pavement	W8-15	2C.33	30 x 30*	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Motorcycle (plaque)	W8-15P	2C.33	24 x 18	24 x 18	30 x 24	36 x 30	—	36 x 30
Metal Bridge Deck	W8-16	2C.33	30 x 30*	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Shoulder Drop Off (symbol)	W8-17	2C.31	30 x 30*	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Shoulder Drop-Off (plaque)	W8-17P	2C.31	24 x 18	24 x 18	30 x 24	36 x 30	—	36 x 30
Road May Flood	W8-18	2C.35	36 x 36	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Flood Gauge	W8-19	2C.35	12 x 72	12 x 72	—	—	—	—
Gusty Winds Area	W8-21	2C.35	36 x 36	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Fog Area	W8-22	2C.35	36 x 36	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
No Shoulder	W8-23	2C.31	36 x 36	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Shoulder Ends	W8-25	2C.31	30 x 30*	36 x 36	36 x 36	48 x 48	24 x 24*	48 x 48
Left (Right) Lane Ends	W9-1	2C.42	36 x 36	36 x 36	36 x 36	48 x 48	30 x 30*	48 x 48
Lane Ends Merge Left (Right)	W9-2	2C.42	36 x 36	36 x 36	36 x 36	48 x 48	30 x 30*	48 x 48
Right (Left) Lane Exit Only Ahead	W9-7	2C.43	132 x 72	132 x 72	132 x 72	132 x 72	—	—
Bicycle	W11-1	2C.49	30 x 30	30 x 30	36 x 36	—	24 x 24*	48 x 48
Pedestrian	W11-2	2C.50	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Large Animals	W11-3,4,16,17,18,19,20,21,22	2C.50	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Farm Vehicle	W11-5,5a	2C.49	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Snowmobile	W11-6	2C.50	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Equestrian	W11-7	2C.50	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Emergency Vehicle	W11-8	2C.49	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Handicapped	W11-9	2C.50	30 x 30*	36 x 36	36 x 36	—	—	48 x 48
Truck	W11-10	2C.49	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Golf Cart	W11-11	2C.49	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Emergency Signal Ahead (plaque)	W11-12P	2C.49	36 x 30	36 x 30	36 x 30	—	—	—
Horse-Drawn Vehicle	W11-14	2C.49	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Bicycle / Pedestrian	W11-15	2C.49	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Trail Crossing	W11-15a	2C.49	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Trail X-ing (plaque)	W11-15P	2C.49	24 x 18	24 x 18	30 x 24	—	—	36 x 30
Double Arrow	W12-1	2C.25	30 x 30*	36 x 36	36 x 36	—	—	—
Low Clearance (with arrows)	W12-2	2C.27	36 x 36	36 x 36	48 x 48	48 x 48	30 x 30*	—
Low Clearance	W12-2a	2C.27	78 x 24	78 x 24	—	—	—	—
Advisory Speed (plaque)	W13-1P	2C.08	18 x 18	18 x 18	24 x 24	30 x 30	—	30 x 30
Advisory Exit or Ramp Speed	W13-2,3	2C.14	24 x 30	24 x 30	36 x 48	36 x 48	—	48 x 60
Combination Horizontal Alignment/Advisory Exit or Ramp Speed	W13-6,7	2C.15	24 x 42	24 x 42	36 x 60	36 x 60	—	48 x 84
Dead End, No Outlet	W14-1,2	2C.26	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48

**Table 2C-2. Warning Sign and Plaque Sizes (Sheet 3 of 3)**

Sign or Plaque	Sign Designation	Section	Conventional Road		Expressway	Freeway	Minimum	Oversized
			Single Lane	Multi-Lane				
Dead End, No Outlet (with arrow)	W14-1a,2a	2C.26	36 x 8	36 x 8	—	—	—	—
No Passing Zone (pennant)	W14-3	2C.45	48 x 48 x 36	48 x 48 x 36	—	—	40 x 40 x 30	64 x 64 x 48
Playground	W15-1	2C.51	30 x 30*	36 x 36	36 x 36	—	24 x 24*	48 x 48
Share the Road (plaque)	W16-1P	2C.60	18 x 24	18 x 24	24 x 30	—	—	24 x 30
XX Feet	W16-2P	2C.55	24 x 18	24 x 18	—	—	—	30 x 24
XX Ft	W16-2aP	2C.55	24 x 12	24 x 12	—	—	—	30 x 18
XX Miles (2-line plaque)	W16-3P	2C.55	30 x 24	30 x 24	—	—	—	—
XX Miles (1-line plaque)	W16-3aP	2C.55	30 x 12	30 x 12	—	—	—	—
Next XX Feet (plaque)	W16-4P	2C.55	30 x 24	30 x 24	—	—	—	—
Supplemental Arrow (plaque)	W16-5P,6P	2C.56	24 x 18	24 x 18	—	—	—	—
Downward Diagonal Arrow (plaque)	W16-7P	2C.50	24 x 12	24 x 12	—	—	—	30 x 18
Advance Street Name (1-line plaque)	W16-8P	2C.58	Varies x 8	Varies x 8	—	—	—	—
Advance Street Name (2-line plaque)	W16-8aP	2C.58	Varies x 15	Varies x 15	—	—	—	—
Ahead (plaque)	W16-9P	2C.50	24 x 12	24 x 12	30 x 18	—	—	—
Photo Enforced (symbol plaque)	W16-10P	2C.61	24 x 12	24 x 12	36 x 18	—	—	48 x 24
Photo Enforced (plaque)	W16-10aP	2C.61	24 x 18	24 x 18	36 x 30	—	—	48 x 36
HOV (plaque)	W16-11P	2G.09	24 x 12	24 x 12	30 x 18	—	—	30 x 18
Traffic Circle (plaque)	W16-12P	2C.46	24 x 18	24 x 18	—	—	—	—
When Flashing (plaque)	W16-13P	2C.50	24 x 18	24 x 18	—	—	—	—
New (plaque)	W16-15P	2C.62	24 x 12	24 x 12	—	—	—	—
Roundabout (plaque)	W16-17P	2C.46	24 x 12	24 x 12	—	—	—	—
NOTICE	W16-18P	2A.15	24 x 12	24 x 12	—	—	—	—
Speed Hump	W17-1	2C.29	30 x 30*	36 x 36	—	—	24 x 24*	48 x 48
Freeway Ends XX Miles	W19-1	2C.24	—	—	—	144 x 48	—	—
Expressway Ends XX Miles	W19-2	2C.24	—	—	144 x 48	—	—	—
Freeway Ends	W19-3	2C.24	—	—	—	48 x 48	—	—
Expressway Ends	W19-4	2C.24	—	—	48 x 48	—	—	—
All Traffic Must Exit	W19-5	2C.24	—	—	90 x 48	90 x 48	—	—
New Traffic Pattern Ahead	W23-2	2C.52	36 x 36	36 x 36	—	—	—	—
Traffic Signal Extended Green	W25-1,2	2C.48	24 x 30	24 x 30	—	—	—	—

\* The minimum size required for diamond-shaped warning signs facing traffic on multi-lane conventional roads shall be 36 x 36 per Section 2C.04

- Notes: 1. Larger signs may be used when appropriate  
 2. Dimensions in inches are shown as width x height

Support:

- 02 Section 2A.11 contains information regarding the applicability of the various columns in Table 2C-2.

Standard:

- 03 **Except as provided in Paragraph 5, the minimum size for all diamond-shaped warning signs facing traffic on a multi-lane conventional road where the posted speed limit is higher than 35 mph shall be 36 x 36 inches.**

- 04 **The minimum size for supplemental warning plaques that are not included in Table 2C-2 shall be as shown in Table 2C-3.**

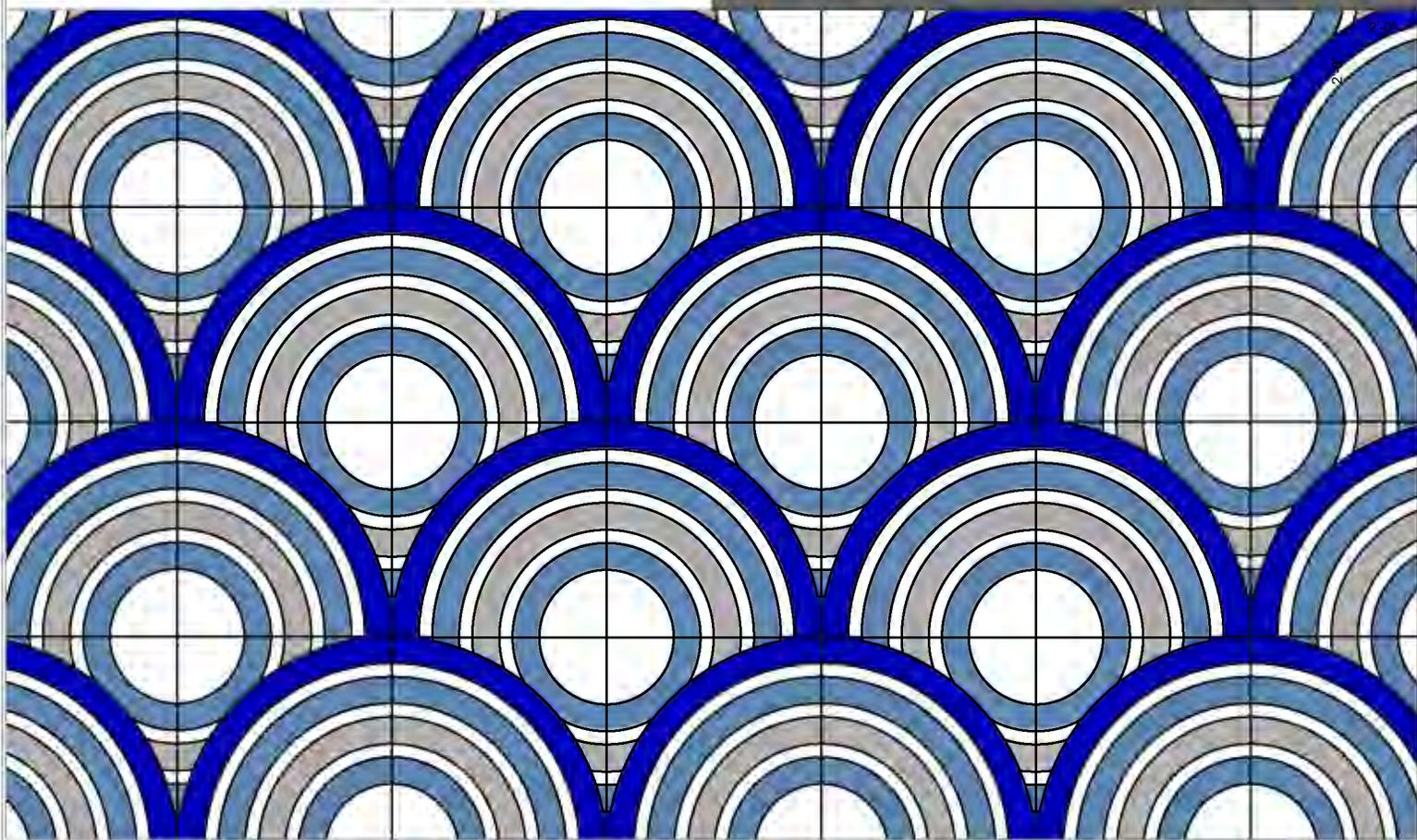
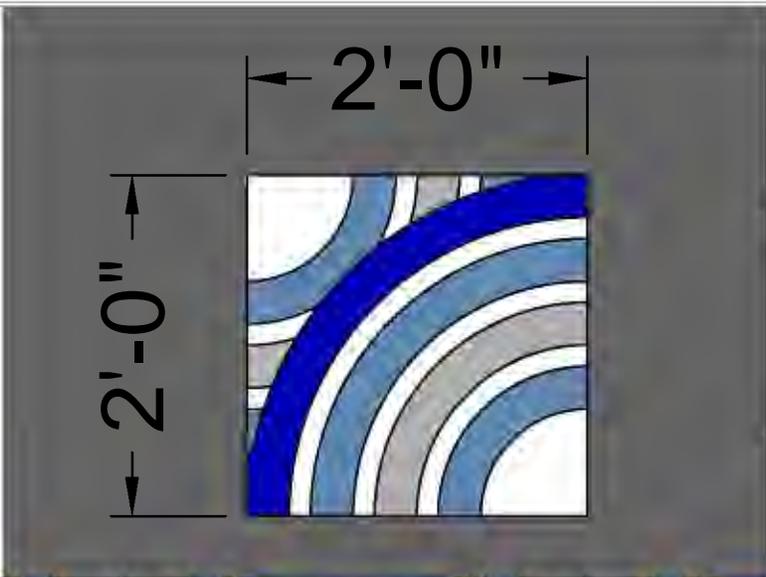
Option:

- 05 If a diamond-shaped warning sign is placed on the left-hand side of a multi-lane roadway to supplement the installation of the same warning sign on the right-hand side of the roadway, the minimum size identified in the Single Lane column in Table 2C-2 may be used.

**Table 2C-3. Minimum Size of Supplemental Warning Plaques**

Size of Warning Sign	Size of Supplemental Plaque			
	Rectangular			Square
	1 Line	2 Lines	Arrow	
24 x 24	24 x 12	24 x 18	24 x 12	18 x 18
30 x 30				
36 x 36	30 x 18	30 x 24	30 x 18	24 x 24
48 x 48				

- Notes: 1. Larger supplemental plaques may be used when appropriate  
 2. Dimensions in inches are shown as width x height



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**PROOF REVIEW**

APPROVED.....

APPROVED AS NOTED....

REJECTED AS NOTED.....

CLIENT SIGNATURE \_\_\_\_\_

NO JOB WILL PROCEED WITHOUT A SIGNED PROOF. DELAYED PROOF APPROVALS MAY DELAY ORDER SHIPMENT. CHANGE REQUESTS AFTER PROOF APPROVAL MAY RESULT IN SHIPMENT DELAY AND/OR CHANGE FEES.

**REVISION**

REVISION #	DATE	DESIGNER
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COLORS MAY VARY ON DIFFERENT MONITORS AND PRINTERS. PMS COLORS ARE SPECIFIED FOR THE CLOSEST COLOR MATCH TO THE PREFORMED THERMOPLASTIC MATERIAL. COLOR SAMPLES CAN BE PROVIDED UPON REQUEST.

DESCRIPTION:

**2' X 2' REPEATABLE PATTERN**

DESIGN #:	DESIGNER: <b>GR</b>
<b>19-756</b>	DATE: <b>12/12/19</b>