

running along the WABN structure would have scupper blocks in place, as drainage scuppers are not needed for the three-lane, one direction configuration. In the four lane (two-lane, two way operation) configuration needed during construction of the WABS structure, the scuppers need to be open to allow a portion of this runoff to spill out and reduce the amount of water “ponding” on the roadway surface.

3. As a result of the deletion of the CSTW, other modifications being made to Pier 1 in Change Order 103, and construction staging for future projects, Retaining Wall 9 no longer needs to be constructed. That wall is deleted from the Contract in this change order.

Current Contract landscaping, soil preparation and irrigation work are also impacted as a result of these follow-on projects but have been addressed through a separate change order.

Evolution of the Change

During the design phase of the WABN Project, funding for the remainder of the SR 520 corridor projects had not yet been obtained. The landscaping, irrigation, soil preparation and CSTW plans were prepared under the assumption that they would need to remain in place for an unknown period of time. Structural plans focused on opening of the WABN to traffic in the final configuration with three lanes, going in one direction.

After the WABN Project was awarded, funding was obtained for the other two projects. Evaluations then began to determine areas of overlap between WABN, WABS and the Montlake Lid in order to realize efficiencies in design and construction of these three projects, reducing costs and avoiding re-work. As a result, SR 520 Program directed the Project Engineer’s Office (PEO) to proceed with a change order to delete the CSTW Facility M and modify other work as detailed above. Plan sheets were revised, deleted and added as needed to modify the work along with revisions to the Special Provisions. This change order incorporates these modifications.

Change Approvals were obtained as noted above.

This change order was initially executed as CO#81 Delete Facility M. That change order did not account for quantity changes made to existing bid items #62 and #63 in CO#18 Catch Basin Rev. As a result, the executed CO#81 order attempted to delete (3) Each Type 2 54” Diam. Catch Basins when only 2 Each were left in CAPS. As CO#81 was already executed in CCIS, the change order could not be revised and needed to be voided. CO#115 was then initiated with quantity revisions that incorporated changes made to the Contract Plans in CO#18. CO#81 approvals are shown in attachment A and used as approvals for this change. The total change order amount did not change.

Payment

In accordance with Standard Specifications 1-04.4, the Contractor is entitled to compensation for the additional cost of the labor, material and equipment as a result of this change through the creation of two new lump sum pay items:

1. Catch Basin Type 2 72 In. Diam. (\$10,605)
2. CO# 115 Other Costs (\$145,813).

Pay item CO# 115 Other Costs compensates the Contractor for costs realized as a result of this WSDOT directed change which modifies the the nature of the Work performed from that of the Work included in the original Plans as follows:

- Decrease in quantity of 21 bid items, with over 40% of the bid items being reduced by greater than 50%, and delete in their entirety 10 others.
- Deletion of some bid items and significant reduction in others required re-sequencing of work, modifications to construction access(es) and reduced productivity of remaining items.
- Increased complexity of remaining work due to deletion or reduction of simpler, easier to perform work.
- Reallocation of project fixed costs for supervision, safety, environmental, tools, and other items due to quantity deletions.

Renegotiating new unit prices on the remaining work for a significant number of items causes unnecessary and unfair risk to the State and the Contractor when most of the quantities for those items remain estimated and could vary greatly from that which the new prices would be based. Rather than renegotiating unit prices for 21 bid items that had been decreased in quantity (9 of which had been decreased greater than 50%) an agreement was reached on a lump sum amount to compensate the Contractor for costs realized due to the factors noted above.

In addition, this change order increases and decreases existing bid item quantities. With the new pay item and these price adjustments, this change order results in a net decrease in estimated Contract total in the amount of \$603,000. The Engineer's Independent Estimate was based on cost information provided by unit bid prices, industry sources and historical cost data. See Attachment B.

Time

Contract time is not affected by this change order.

DBE Statement

DBE participation is not impacted by this change order.

Attachments

CCIS Change Order Document (72 pages)
Change Order Checklist (2 pages)
Change Approval Emails (Attachment A)
Engineer's Estimate (Attachment B)

File: CO Files: CO 115; ProjectWise: 16.05.115

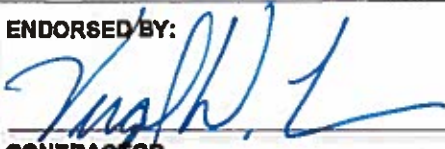
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CONTRACT NO: 008625 FEDERAL AID NO: ER-NHPP-0520 (053)
 CONTRACT TITLE: SR 520, MONTLAKE TO EVERGREEN PT. BRIDGE WEST APPR
 CHANGE ORDER NO: 115 DELETE FACILITY M



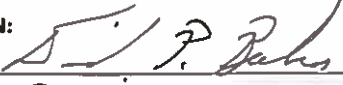

PRIME CONTRACTOR: SW0178155 FLATIRON WEST, INC
 18702 NORTH CREEK PARKWAY #202
 BOTHELL WA 98011-8019

- Ordered by Engineer under the terms of Section 1-04.4 of the Standard Specifications
 Change proposed by Contractor

ENDORSED BY:  CONTRACTOR 8/29/2016 DATE	SURETY CONSENT: ATTORNEY IN FACT DATE
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ORIGINAL CONTRACT AMOUNT: 199,537,370.50
 CURRENT CONTRACT AMOUNT: 202,918,984.00
 ESTIMATED NET CHANGE THIS ORDER: -603,000.00
 ESTIMATED CONTRACT TOTAL AFTER CHANGE: 202,315,984.00

Approval Required: Region Olympia Service Center Local Agency

<input checked="" type="checkbox"/> APPROVAL RECOMMENDED  PROJECT ENGINEER 9.1.16 DATE	<input type="checkbox"/> EXECUTED  STATE CONSTRUCTION ENGINEER 9/19/16 DATE
<input checked="" type="checkbox"/> APPROVAL RECOMMENDED REGIONAL ADMIN:  BY: SR 520 Director of Construction September 12, 2016 DATE	OTHER APPROVAL WHEN REQUIRED  9/19/16 SIGNATURE DATE FHWA REPRESENTING

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All work, materials, and measurements to be in accordance with the provisions of the Standard Specifications and Special Provisions for the type of construction involved.

This contract is revised as follows:

Description:

This change order deletes the Constructed Stormwater Treatment Wetland (CSTW) Facility M located southeast of East Park Drive E and north of SR 520 mainline and provides modified details for this area.

This change order also eliminates Wall 9 and the scupper blocks for concrete barriers on WABN.

Total COA DBE Subcontracting Goal for the Project is not changed or affected by this change order.

Construction Criteria:

Contract Provisions Volume 1 of 2, Special Provisions is modified as follows:

Division 2 Earthwork, ROADWAY EXCAVATION AND EMBANKMENT, Section 2-03.3 Construction Requirements, Subsection Common Borrow Including Haul for Stormwater Facilities is deleted in its entirety.

Division 6 Structures, CONCRETE BARRIER is modified as follows:

- Section 6-10.2 Materials, Subsection Scupper Blocks for Barriers is deleted in its entirety.
- The following is deleted from Section 6-10.3(2) Construction Requirements, Subsection Cast-In-Place Concrete Barrier:

"Scupper blocks for barriers shall be placed and spaced as shown in the Plans. The concrete surfaces of the scupper blocks shall be coated with a bond breaker as approved by the Project Engineer just prior to casting the traffic barrier and traffic pedestrian barrier encapsulating the blocks."

Division 7 Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits, MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS is modified as follows:

- Section 7-05.2 Materials, Subsection Debris Cages is deleted in its entirety.
- The following line of Section 7-05.4 Measurement is deleted:

"Measurement for debris cage will be per each."

- The following lines of Section 7-05.5 Payment are deleted:

"Debris Cage", per each.

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The unit Contract price per each for "Debris Cage" shall be full pay for furnishing and installing the debris cage. All costs associated with furnishing and installing the mounting hardware shall be included in the unit Contract price for the item installed."

Contract Provisions Volume 2 of 2, Special Provisions is modified as follows:

Division 7 Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits, VALVES FOR WATER MAINS is modified as follows:

- The following line of Section 7-12.1 Description is deleted:

"This Work also includes furnishing and installing gate valves on drain pipes and storm sewers where indicated in the Plans."

- The following items of Section 7-12.2 Materials are deleted:

"Gate valves for drain pipes and storm sewers shall have a minimum pressure rating of 10 psi at 70 degrees Fahrenheit. Gate valves shall have a minimum vacuum service rating of 12 psi. Gate valves shall be gate, paddle or plug type.

Hubs, bodies, and bonnets for gate valves for drain pipes and storm sewers shall be manufactured of PVC conforming to ASTM D1784 with a cell classification of 12454 or 12454A.

Gates, paddles or plugs shall be Type 304 Stainless Steel conforming to ASTM A240 and A666 or polypropylene conforming to ASTM D4101 with a cell classification of PP0210B67272.

Shafts, handles, air cylinder bolts, nuts, and washers, shall be manufactured from Type 304 Stainless Steel conforming to ASTM A240 and A666. Stems shall be PVC or stainless steel meeting the material requirements for other PVC or stainless steel components.

Operators shall be a pull-up handle, a handle with a non-rising stem, or a 2-inch square operating nut with a non-rising stem. Handles shall be stainless steel or polypropylene meeting the material requirements for other stainless steel or polypropylene components.

Seals, gaskets, and O-rings shall be ethylene propylene diene monomer (EPDM) rubber or a thermoplastic vulcanizate (TPV) thermoplastic elastomer (TPE) conforming to the following:

ASTM D412: Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers Tension

Tensile Strength: 375 - 1,500 psi

Ultimate (breaking) Elongation: 200 percent, minimum

ASTM D2240: Standard Test Method for Rubber Property Durometer Hardness

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Hardness, Shore A, points: 40 - 75

ASTM D573: Standard Test Method for Rubber Deterioration in an Air Oven
Temperature: 302 degrees Fahrenheit
Time: 70 hours, minimum
Change in Tensile Strength: -20 percent, maximum
% Change in Elongation: -20 percent, maximum
Change in Hardness: +10 points, maximum

ASTM D395: Standard Test Methods for Rubber Property Compression Set
Temperature: 212 degrees Fahrenheit, minimum
Time: 22 hours
Method B: 25 - 45 percent

The ends of the valves shall be either slip-on joints or flanged joints. Slip-on joints shall be compatible for solvent-welding to PVC schedule 40 pipe that conforms to ASTM D2665 and ASTM F1866 or flanged ends. Cement for solvent welding shall be in accordance with the manufacturer's requirements. Bolt spacing for flanges shall conform to ANSI Class 150 and ASME B16.5.

Transition pipe sections between slip-on joint gate valves and the drain pipes and storm sewers shall be PVC Schedule 40 pipe that conforms to ASTM D2665. The end that connects to the gate valve shall be a plain end for solvent welding to the gate valve slip-on joint. The end that connects to the drain pipe or storm sewer shall conform to the dimensional requirements for the coupling.

Transition pipe sections between flanged joint gate valves and the drain pipes and storm sewers shall include a section of flanged pipe that extends beyond the outside face of the catch basin wall or a plain-end-to-flange adapter with the adapter located inside the catch basin. The connection to the flange pipe or the plain-end-to-flange adapter shall not be located within the catch basin wall. Flanged PVC pipe shall be PVC Schedule 40 conforming to ASTM D2665. Flanged Ductile Iron pipe shall conform to Section 9-30.1(1).

Couplings and adapters between gate valves, transition pipe sections and drain pipes and storm sewers shall provide a joint that can meet the testing requirements of the Special Provision Storm Sewers. Coupling and adapter materials shall have the minimum strength requirements of the drain pipe or storm sewer pipe material that is being joined.

Grout shall conform to Section 9-04.3.

Valve boxes and valve marker posts are not required for gate valves for drain pipes and storm sewers."

- The following items of Section 7-12.3 Construction Requirements, Subsection Adjust Valve Box are deleted:

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"The drain pipes and storm sewers on which gate valves are installed shall be tested in accordance with Section 7-04 and the Special Provision Storm Sewers. The gate valves shall be installed prior to pipe testing. Gate valves shall be temporarily supported until the pipe has been tested and test results accepted by the Engineer. After the test results have been accepted, the knockout around the pipe shall be completely filled with grout for the full catch basin wall thickness. Grout shall be flush with the catch basin wall. After the grout has cured, the temporary support shall be removed unless otherwise approved by the Engineer. The transition pipe section between the gate valve and the drain pipe or storm sewer shall not exceed 5-ft. For gate valves with solvent weld end joints, the face of the gate valve body adjacent to the wall shall not extend more than 2-inches from the interior face of the catch basin wall. For gate valves with flange end joints, the flange adjacent to the wall or the outside of the adapter shall not extend more than 4-inches from the interior face of the catch basin wall.

Disinfecting gate valves for drain pipes and storm sewers is not required."

- The following item of Section 7-12.5 Payment is deleted:

"The unit Contract price per each for "Gate Valve __ In." for drain pipes and storm sewers shall be full pay for all Work to furnish and install the valve complete in place at the end of the storm drain pipe inside of the catch basin, including temporary supports, grout, jointing, transition pipe sections, and couplings."

Division 8 Miscellaneous Construction, EROSION CONTROL AND WATER POLLUTION CONTROL is modified as follows:

- Section 8-01.2 Materials, Subsection Geosynthetic Clay Liner (GCL) is deleted in its entirety.
- Section 8-01.3 Construction Requirements, Subsection Geosynthetic Clay Liner is deleted in its entirety.
- The following is deleted from Section 8-01.4 Measurement:

"Measurement for geosynthetic clay liner will be per square yard of completed GCL in place. Measurement on slopes will include the actual area of the slope covered. The area of GCL on slopes will be computed on the basis of measurements taken by projecting the area of the slope onto a horizontal plane. No separate measurement will be made for GCL or granular bentonite for longitudinal or end-of-roll seams, materials for patches, materials for sealing penetrations, or materials placed in the anchor trench."

- The following is deleted from Section 8-01.5 Payment:

"Geosynthetic Clay Liner," per square yard.

The unit Contract price per square yard for "Geosynthetic Clay Liner" shall be full pay for furnishing and installing the liner; preparing the subgrade; providing for penetrations through the liner and sealing of the penetrations;

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patching; constructing and sealing of longitudinal and end-of- roll seams; and providing temporary cover and BMPs for protecting the cover soil and GCL. The unit Contract price per square yard shall also be full pay for furnishing and installing all equipment, tools, labor, granular bentonite and all other materials to provide a complete installation.

The cover soil and vegetation shall be paid for under other Bid items specified for the project."

Division 8 Miscellaneous Construction, PRESETTLING CELL CONCRETE LINER is deleted in its entirety.

Contract Plans Volume 1 of 10 is modified as follows:

Add the following Plan Sheets included as pages 18 and 20 of this change order:

- SP02A titled "Site Preparation Plan".
- RP14A titled "Roadway Profile".

Delete Plan Sheet RP14 titled "Roadway Profile".

Delete the following Plan Sheets and replace with page 11 through 17 of this change order:

- RS05 and RS08 both titled "Roadway Sections"
- SU34, SU38 and SU45 all titled "Construction Staging Plan"
- SP01 and SP02 both titled "Site Preparation Plan" 10

Contract Plans Volume 2 of 10 is modified as follows:

Add Plan Sheet DP11 titled "Drainage Profile" included as page 21 of this change order.

Delete Plan Sheets SW01, SW02, SW05, SW06 and SW07 all titled "Stormwater Facilities".

Delete the following Plan Sheets and replace with page 27 through 49 of this change order:

- NI12, NI13, NI14, NI16, NI17, NI18, NI19, NI20, NI21, NI22, NI23, NI24, and NI25 all titled "Structure Notes Drainage"
- DR02 titled "Drainage Plan"
- DP06, DP07, and DP08 all titled "Drainage Profile"
- DD02, DD10 and DD11 all titled "Drainage Details"
- SW03 and SW04 both titled "Stormwater Facilities"
- DB108 titled "Bridge Drainage Details".

Contract Plans Volume 3 of 10 is modified as follows:

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Add the following Plan Sheets included as pages 52, 55 and 57 of this change order:

- CN02A titled "Interchange Grading Plan".
- FV02A titled "Paving Plan".
- FV14A titled "Paving Details".

Delete the following Plan Sheets:

- WR10 titled "Wall 9 Layout"
- WR23 titled "Wall 9 Section"
- WR55 titled "Presettling Cell Details 1 of 4"
- WR56 titled "Presettling Cell Details 2 of 4"
- WR57 titled "Presettling Cell Details 3 of 4"
- WR58 titled "Presettling Cell Details 4 of 4".

Delete the following Plan Sheets and replace with page 50-51, 53-54, 56 and 58-59 of this change order:

- CN01 and CN02 both titled "Interchange Grading Plan"
- FVQ15 titled "Quantity Tabulation Paving"
- FV02 titled "Paving Plan"
- FV14 and FV15 both titled "Paving Details"
- IWR01 titled "Retaining Wall Sheet Index"

Delete the following sheet from the Contract Plans Volume 6 of 10 and replace with page 66 of this change order:

- IBA05 titled "WABN Structural Sheet Index 5"

Delete the following sheets from the Contract Plans Volume 9 of 10 and replace with page 67 through 72 of this change order:

- BA543 titled "Barrier Plan"
- BA544 titled "Barrier Scupper Block"
- BA546 titled "Traffic Pedestrian Barrier Details 2 of 4"
- BA547 titled "Traffic Pedestrian Barrier Details 3 of 4"
- BA548 titled "Traffic Pedestrian Barrier Details 4 of 4"
- BA549 titled "Traffic Barrier Details 1 of 4"

Measurement and Payment:

The following existing bid items are reduced:

- Bid Item 038 Roadway Excavation Incl. Haul is reduced by 10,500 C.Y.
- Bid Item 042 Embankment Compaction is reduced by 6,140 C.Y.
- Bid Item 043 Ditch Excavation Incl. Haul is reduced by 240 C.Y.
- Bid Item 047 Streambed Cobbles is reduced by 130 Ton.
- Bid Item 049 Quarry Spalls is reduced by 30 Tons.
- Bid Item 050 Underdrain Pipe 6 In. Diam. Is reduced 393 L.F.
- Bid Item 052 Drain Pipe 12 In. Diam. is reduced by 528 L.F.

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- Bid Item 053 Schedule A Culv. Pipe 18 In. Diam. is reduced by 150 L.F.
- Bid Item 054 Debris Cage is decreased by 2 Each.
- Bid Item 062 Catch Basin Type 2 54 In. Diam. is reduced by 1 Each.
- Bid Item 063 Catch Basin Type 2 60 In. Diam. is reduced by 3 Each.
- Bid Item 069 Schedule A Storm Sewer Pipe 8 In Diam. is reduced 12 L.F.
- Bid Item 073 Schedule A Storm Sewer Pipe 24 In. Diam. is reduced by 84 L.F.
- Bid Item 078 Sewer Cleanout is reduced by 12 Each.
- Bid Item 108 Gate Valve 8 In. is decreased by 1 Each.
- Bid Item 109 Gate Valve 12 In. is decreased by 2 Each.
- Bid Item 124 Structure Excavation Class A Incl. Haul is reduced by 110 C.Y.
- Bid Item 180 Prefabricated Drainage Mat is reduced by 1,090 S.Y.
- Bid Item 184 Structural Earth Wall is reduced by 510 S.F.
- Bid Item 189 Crushed Surface Base Course is reduced by 130 Tons.
- Bid Item 196 HMA Cl. In. PG 64-22 is reduced by 178 Tons.
- Bid Item 205 Geosynthetic Clay liner is reduced by 2,170 S.Y.
- Bid Item 285 Concrete Liner is reduced by 1,280 S.Y.
- Bid Item 291 Gravel Backfill for Drain is reduced by 233 C.Y.
- Bid Item 305 Coated Chain Link Fence Type 3 is reduced by 370 L.F.
- Bid Item 306 Coated End, Gate, Corner, Pullpost for Chain Link Fence is reduced by 11 Each.
- Bid Item 307 Double 14 FT. Coated Chain Link Gate is reduced by 1 Each.
- Bid Item 327 Construction Geotextile for Underground Drain is reduced by 28 S.Y.
- Bid Item 329 Construction Geotextile for Permanent Erosion Control is reduced by 122 S.Y.
- Bid Item 331 Gravel Backfill for Structural Earth Wall is reduced by 95 C.Y.
- Bid Item 350 On-Land Contam. Soil Excavation, Handling & Disposal is reduced by 1780 Ton.

The following existing bid items are increased:

- Bid Item 048 Light Loose Riprap is increased by 50 Tons.
- Bid Item 051 Drain Pipe 6 In. Diam is increased by 11 L.F.
- Bid Item 061 Catch Basin Type 2 48" Diam. is increased by 1 Each.
- Bid Item 065 Testing Storm Sewer Pipe is increased by 148 L.F.
- Bid Item 066 Cl. III Reinf. Conc. Storm Sewer Pipe 30 In. Diam. is increased 166 L.F.
- Bid Item 070 Schedule A Storm Sewer Pipe 12 In. Diam. is increased by 78 L.F.
- Bid Item 289 Structure Excavation Class B Incl. Haul is increased by 150 C.Y.
- Bid Item 290 Shoring or Extra Excavation Class B is increased by 810 S.F.

The new item "Catch Basin Type 2 72 In. Diam.", in the amount of \$10,605 each, shall be full payment for all additional costs for equipment, labor, tools, materials, engineering, indirect, overhead, and other costs realized by Flatiron West, Inc. and its subcontractors, consultants, and suppliers to install the catch basin as shown in this change order.

The new item "CO# 115 Other Costs", in the amount of \$145,813, shall be full

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payment for all other costs realized by Flatiron West, Inc. and its subcontractors, consultants, and suppliers for the work modified by this change order.

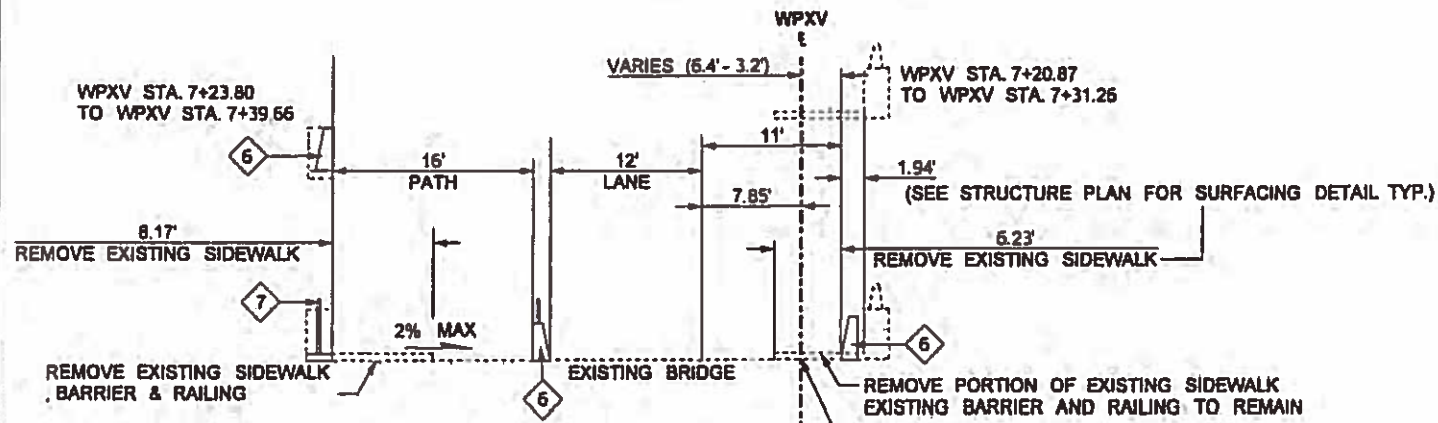
Time:

Contract time is not affected by this change order

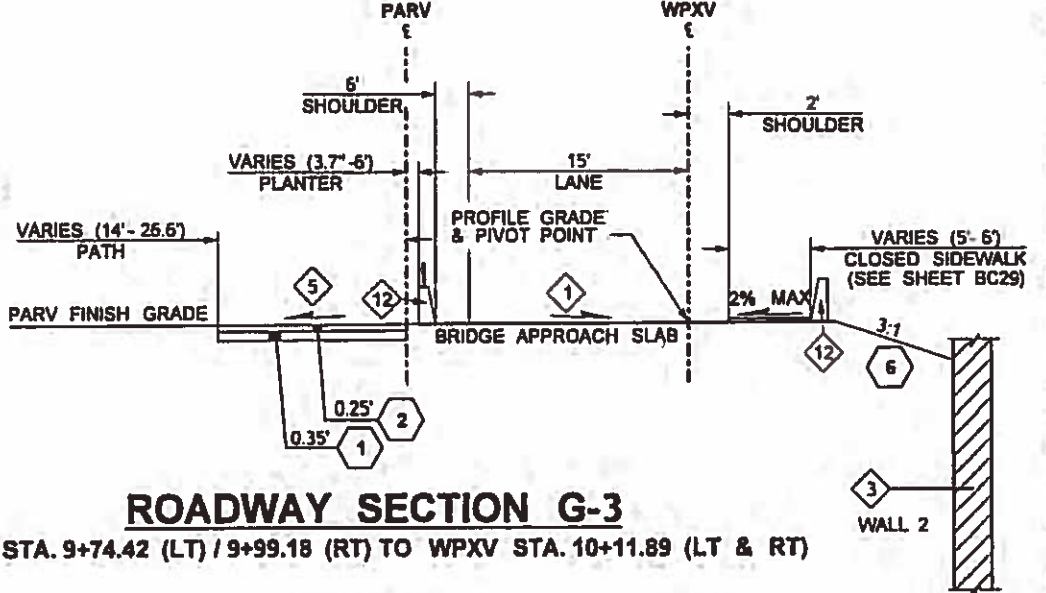
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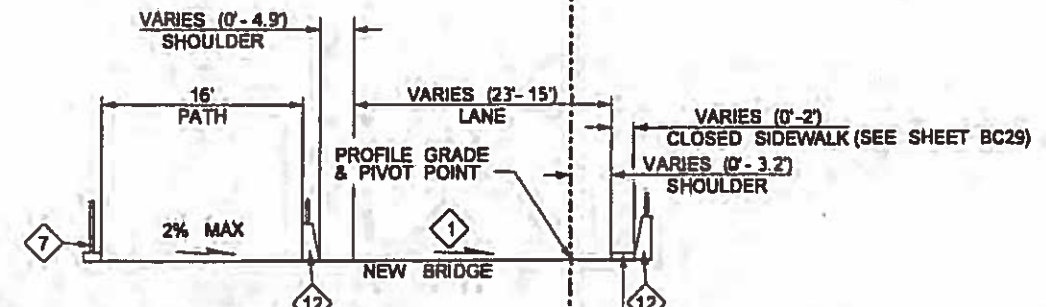
CONTRACT NO: 008625				CHANGE ORDER NO: 115			
ITEM NO	GROUP NO	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	UNIT PRICE	EST QTY CHANGE	EST AMT CHANGE
0038	01	0010	ROADWAY EXCAVATION INCL. HAUL	C.Y.	31.00	-10,500.00	-325,500.00
0042	01	0470	EMBANKMENT COMPACTION	C.Y.	3.00	-6,140.00	-18,420.00
0043	01	1030	DITCH EXCAVATION INCL. HAUL	C.Y.	49.00	-240.00	-11,760.00
0047	01	1094	STREAMBED COBBLES	TON	65.00	-130.00	-8,450.00
0048	01	1073	LIGHT LOOSE RIPRAP	TON	55.00	50.00	2,750.00
0049	01	1086	QUARRY SPALLS	TON	70.00	-30.00	-2,100.00
0050	01	1160	UNDERDRAIN PIPE 6 IN. DIAM.	L.F.	19.00	-393.00	-7,467.00
0051	01	1170	DRAIN PIPE 6 IN. DIAM.	L.F.	25.00	11.00	275.00
0052	01	1173	DRAIN PIPE 12 IN. DIAM.	L.F.	40.00	-528.00	-21,120.00
0053	01	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	L.F.	56.00	-150.00	-8,400.00
0054	01		DEBRIS CAGE	EACH	810.00	-2.00	-1,620.00
0061	01	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	EACH	3,300.00	1.00	3,300.00
0062	01	3106	CATCH BASIN TYPE 2 54 IN. DIAM.	EACH	3,800.00	-1.00	-3,800.00
0063	01	3109	CATCH BASIN TYPE 2 60 IN. DIAM.	EACH	5,150.00	-3.00	-15,450.00
0065	01	3151	TESTING STORM SEWER PIPE	L.F.	3.50	148.00	518.00
0066	01	3436	CL. III REINF. CONC. STORM SEWER PIPE 30	L.F.	125.00	166.00	20,750.00
0069	01		SCHEDULE A STORM SEWER PIPE 8 IN. DIAM.	L.F.	37.00	-12.00	-444.00
0070	01	3541	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	L.F.	35.00	78.00	2,730.00
0073	01	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	L.F.	108.00	-84.00	-9,072.00
0078	01	3640	SEWER CLEANOUT	EACH	625.00	-12.00	-7,500.00
0108	01	6160	GATE VALVE 8 IN.	EACH	1,450.00	-1.00	-1,450.00
0109	01	6165	GATE VALVE 12 IN.	EACH	1,350.00	-2.00	-2,700.00
0124	01	4006	STRUCTURE EXCAVATION CLASS A INCL. HAUL	C.Y.	31.00	-110.00	-3,410.00
0100	01	4482	PREFABRICATED DRAINAGE MAT	S.Y.	11.00	-1,090.00	-11,990.00
0184	01	7169	STRUCTURAL EARTH WALL	S.F.	33.00	-510.00	-16,830.00
0189	01	5100	CRUSHED SURFACING BASE COURSE	TON	30.00	-130.00	-3,900.00
0196	01	5707	HMA CL. 1/2 IN. P3 64-22	TON	88.00	-178.00	-15,664.00
0205	01		GEOSYNTHETIC CLAY LINER	S.Y.	13.50	-2,170.00	-29,295.00
0285	01		CONCRETE LINER	S.Y.	75.00	-1,280.00	-96,000.00
0289	01	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	C.Y.	50.00	150.00	7,500.00
0290	01	7008	SHORING OR EXTRA EXCAVATION CLASS B	S.F.	1.00	810.00	810.00
0291	01	7014	GRAVEL BACKFILL FOR DRAIN	C.Y.	40.00	-233.00	-9,320.00
0305	01	7085	COATED CHAIN LINK FENCE TYPE 3	L.F.	16.00	-370.00	-5,920.00
0300	01	7098	COATED END, GATE, CORNER, FULLPOST FOR CH	EACH	255.00	-11.00	-2,805.00
0307	01	7103	DOUBLE 14 FT. COATED CHAIN LINK GATE	EACH	2,100.00	-1.00	-2,100.00
0327	01	7550	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND D	S.Y.	3.50	-28.00	-98.00
0329	01	7554	CONSTRUCTION GEOTEXTILE FOR PERMANENT ERO	S.Y.	3.00	-122.00	-366.00
0351	01	7567	GRAVEL BORROW FOR STRUCTURAL EARTH WALL I	C.Y.	40.00	-95.00	-3,800.00
0350	01		ON-LAND CONTAM. SOIL EXCAVATION, HANDLING	TON	85.00	-1,780.00	-151,300.00
1052	01		CO#115 OTHER COSTS	L.S.	145,813.00	1.00	145,813.00
1053	01	3107	CATCH BASIN TYPE 2 72 IN. DIAM.	EACH	10,605.00	1.00	10,605.00



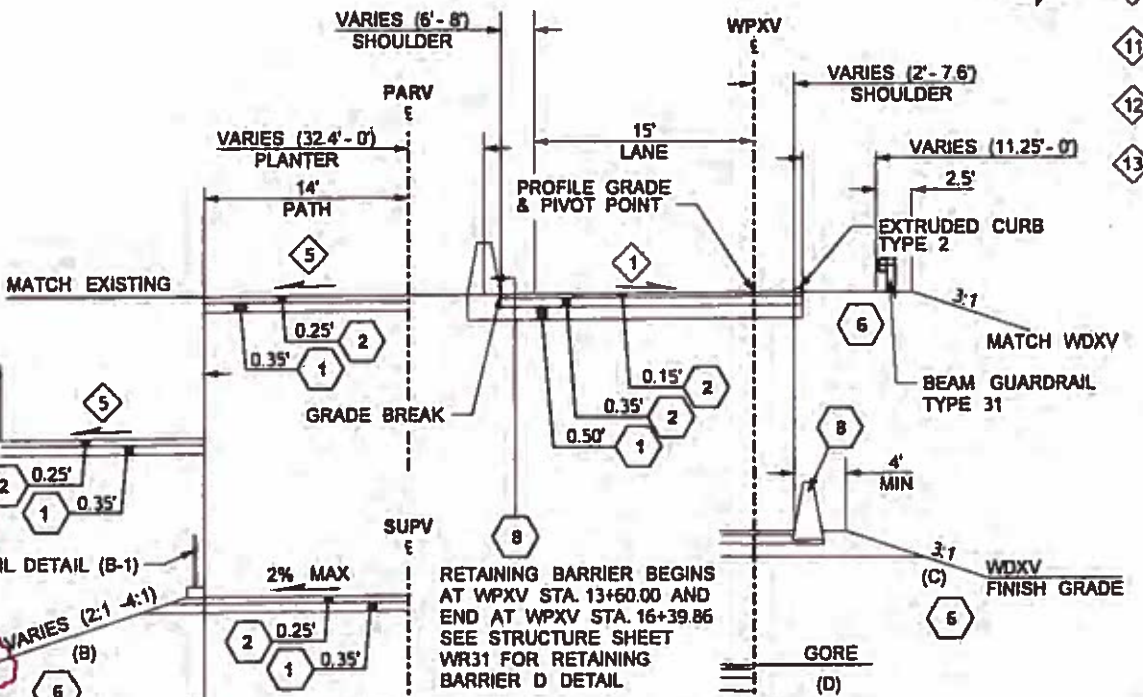
ROADWAY SECTION G-1
 WPXV STA. 7+20.89 (RT) / 7+23.80 (LT) TO
 WPXV STA. 8+95.45 (LT) / 9+03.56 (RT)



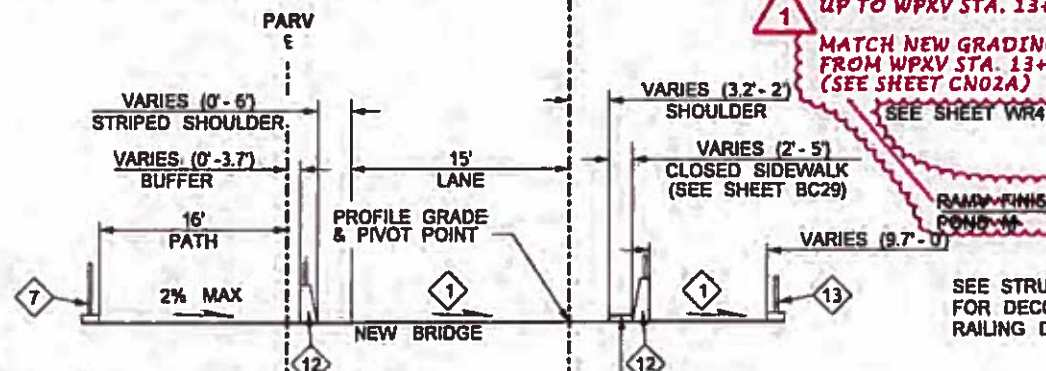
ROADWAY SECTION G-3
 WPXV STA. 9+74.42 (LT) / 9+99.18 (RT) TO WPXV STA. 10+11.89 (LT & RT)



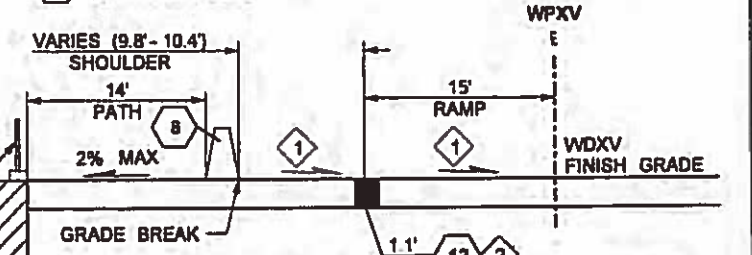
ROADWAY SECTION G-2a
 WPXV STA. 8+95.45 (LT) / 9+03.56 (RT) TO
 WPXV STA. 9+37.61 (LT) / 9+45.72 (RT)



ROADWAY SECTION G-4
 WPXV STA. 10+11.89 TO WPXV STA. 16+41.67



ROADWAY SECTION G-2b
 WPXV STA. 9+37.61 (LT) / 9+45.72 (RT) TO
 WPXV STA. 9+74.42 (LT) / 9+99.18 (RT)



ROADWAY SECTION G-5
 WPXV STA. 16+41.67 TO WPXV STA. 16+66.73

- 1 CROSS SLOPES VARY, SEE SUPERELEVATION DIAGRAMS ON THE ROADWAY PROFILE SHEETS
- 2 BRIDGE APPROACH SLABS BETWEEN SEE SHEET BC41 - BC43, BC47 FOR DETAIL
- 3 SEE RETAINING WALL PLANS FOR WALL TYPE, SIZE, LOCATION AND DETAILS.
- 4 RE-COMPACT EXPOSED SUBGRADE PRIOR TO WIDENING
- 5 SEE PAVING PLANS FOR PAVING CONTROL
- 6 SEE STRUCTURE SHEETS BC51-BC53 FOR BARRIER DETAIL
- 7 SEE STRUCTURE SHEET BC37 FOR RAILING DETAIL
- 8 SEE SHEET PV20 FOR BARRIER SCHEDULE
- 9 SEE PAVEMENT MARKING PLANS FOR VARIABLE LANE WIDTH
- 10 SEE STANDARD PLAN F-10.40-02 FOR SLOPE ROUNDING
- 11 SEE SHEET PV21 FOR GUARDRAIL SCHEDULE
- 12 SEE STRUCTURE SHEET BC30-BC33 FOR BARRIER DETAILS
- 13 SEE STRUCTURE SHEET BC39 FOR CABLE FENCE DETAIL

- 1 CRUSHED SURFACING BASE COURSE
- 2 HMA CL 1/4 IN PG 64-22
- 3 CEMENT CONCRETE SIDEWALK
- 4 CEMENT CONCRETE TRAFFIC CURB
- 5 CONCRETE CAP 3" THICKNESS
- 6 EMBANKMENT COMPACTION
- 7 ROADWAY EXCAVATION INCL HAUL
- 8 CONCRETE BARRIER
- 9 PLANING BITUMINOUS PAVEMENT
- 10 SELECT BORROW INCLUDING HAUL
- 11 LONGITUDINAL JOINT SEAL

NOTE:
 1. ALL PAVEMENT AND SURFACING DEPTHS SHOWN ARE COMPACTED DEPTHS (SEE STD. SPEC. 5-04.3(9) FOR MAXIMUM DEPTHS PER LAYER)
 2. NST : NOT STEEPER THAN

FILE NAME	TIME 11:47:24 AM	DATE 2/2/2016	DESIGNED BY C. LEE	ENTERED BY S. SHARPE	CHECKED BY P. MERRELL	PROJ. ENGR. D. EDWARDS	REGIONAL ADM. J. MEREDITH	REVISION	DATE	BY	REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	CONTRACT NO. 13A012	LOCATION NO.
											CO#115 - DELETE FACILITY M	12/23/2015	CL		

Contract 8625
 Change Order #115
 Page 11 of 72

PLAN REF. NO. RS05

SHEET 41 OF 1797 SHEETS

ROADWAY SECTIONS

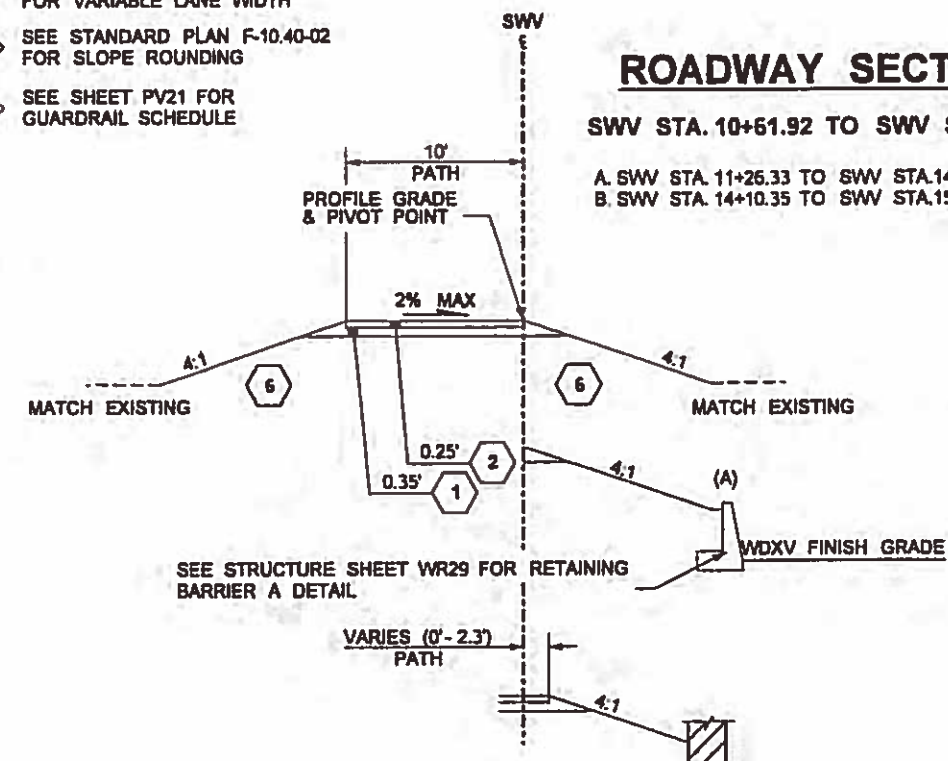
- 1 CROSS SLOPES VARY, SEE SUPERELEVATION DIAGRAMS ON THE ROADWAY PROFILE SHEETS
- 2 NO BRIDGE APPROACH SLAB IN THIS SHEET
- 3 SEE RETAINING WALL PLANS FOR WALL TYPE, SIZE, LOCATION AND DETAILS.
- 4 RE-COMPACT EXPOSED SUBGRADE PRIOR TO WIDENING
- 5 SEE PAVING PLANS FOR PAVING CONTROL
- 6 SEE STRUCTURE SHEETS BA543 - BA556 FOR BARRIER DETAIL
- 7 SEE STRUCTURE SHEET BC37 FOR RAILING DETAIL
- 1 CRUSHED SURFACING BASE COURSE
- 2 HMA CL. 1/4 IN. PG 64-22
- 3 CEMENT CONCRETE SIDEWALK
- 4 CEMENT CONCRETE TRAFFIC CURB
- 5 CONCRETE CAP 3" THICKNESS
- 6 EMBANKMENT COMPACTION
- 7 ROADWAY EXCAVATION INCL. HAUL
- 8 CONCRETE BARRIER
- 9 PLANING BITUMINOUS PAVEMENT
- 10 SELECT BORROW INCLUDING HAUL
- 11 LONGITUDINAL JOINT SEAL
- 12 CONCRETE BRIDGE APPROACH SLAB

- 8 SEE SHEET PV20 FOR BARRIER SCHEDULE
- 9 SEE PAVEMENT MARKING PLANS FOR VARIABLE LANE WIDTH
- 10 SEE STANDARD PLAN F-10.40-02 FOR SLOPE ROUNDING
- 11 SEE SHEET PV21 FOR GUARDRAIL SCHEDULE

ROADWAY SECTION N

SWV STA. 10+61.92 TO SWV STA. 15+86.35

A. SWV STA. 11+26.33 TO SWV STA. 14+10.35
 B. SWV STA. 14+10.35 TO SWV STA. 15+86.35

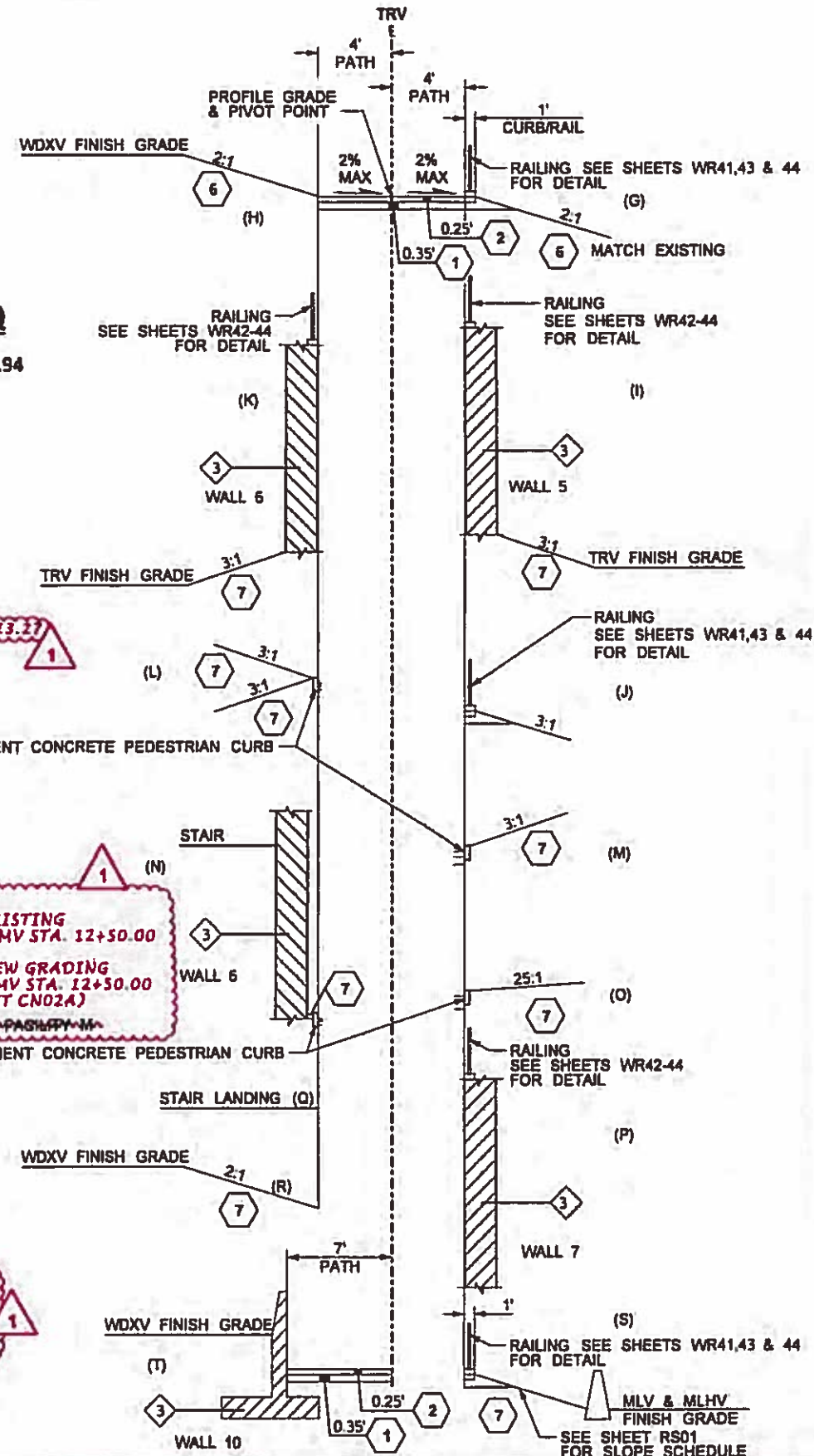


ROADWAY SECTION Q

TRV STA. 10+34.04 TO TRV STA. 17+95.94

SIDE TREATMENTS

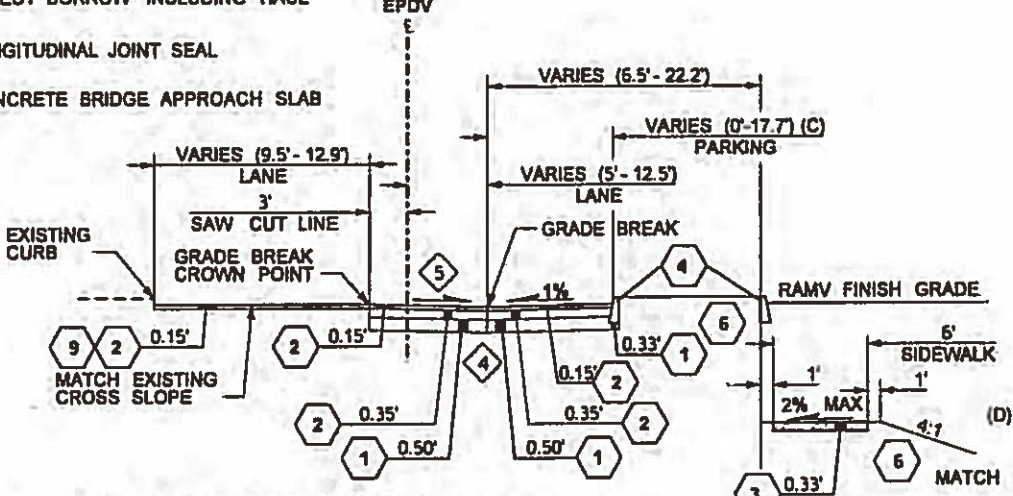
- G. TRV STA. 10+34.04 TO TRV STA. 10+76.16
- H. TRV STA. 10+34.04 TO TRV STA. 11+83.65
- I. TRV STA. 10+76.16 TO TRV STA. 11+52.98
- J. TRV STA. 11+52.98 TO TRV STA. 11+69.93
- K. TRV STA. 11+83.65 TO TRV STA. 12+79.50
- L. TRV STA. 12+79.50 TO TRV STA. 14+51.21
- M. TRV STA. 11+69.93 TO TRV STA. 13+16.94
- N. TRV STA. 14+51.21 TO TRV STA. 15+09.63
- O. TRV STA. 13+16.94 TO TRV STA. 13+19.38
- P. TRV STA. 13+19.38 TO TRV STA. 13+84.55
- Q. TRV STA. 15+09.63 TO TRV STA. 15+29.42
- R. TRV STA. 15+29.42 TO TRV STA. 17+95.94
- S. TRV STA. 13+84.55 TO TRV STA. 17+95.94
- T. TRV STA. 17+95.94 TO TRV STA. 17+95.94



ROADWAY SECTION O

EPDV STA. 9+94.44 TO EPDV STA. 13+39.29

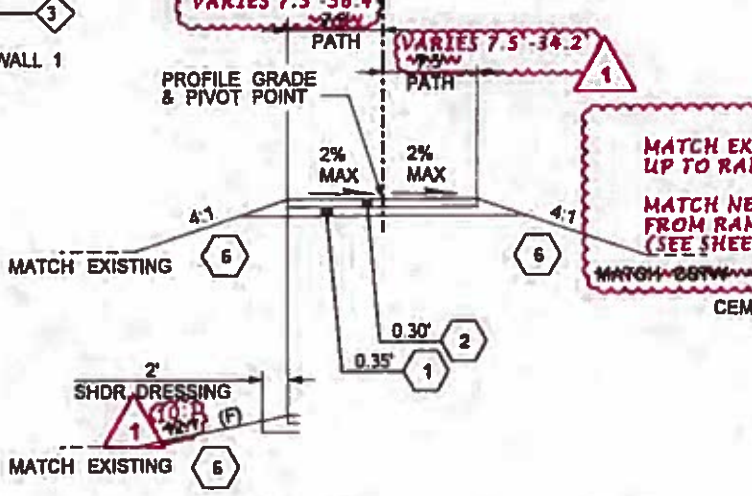
C. SEE PAVING PLAN FOR PARKING LOT DETAIL.
 D. EPDV STA. 10+90.33 TO EPDV STA. 13+27.27
 E. EPDV STA. 13+27.27 TO EPDV STA. 13+39.29



ROADWAY SECTION P

RAMV STA. 9+27.51 TO RAMV STA. 15+76.86

~~RAMV STA. 9+27.51 TO RAMV STA. 20+14.37~~
~~P. FROM RAMV STA. 11+84.00 TO RAMV STA. 14+66.00~~
 F. FROM RAMV STA. 11+56.00 TO RAMV STA. 14+00.00

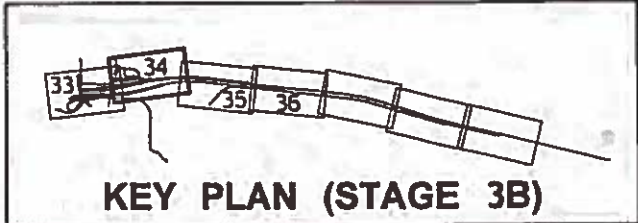
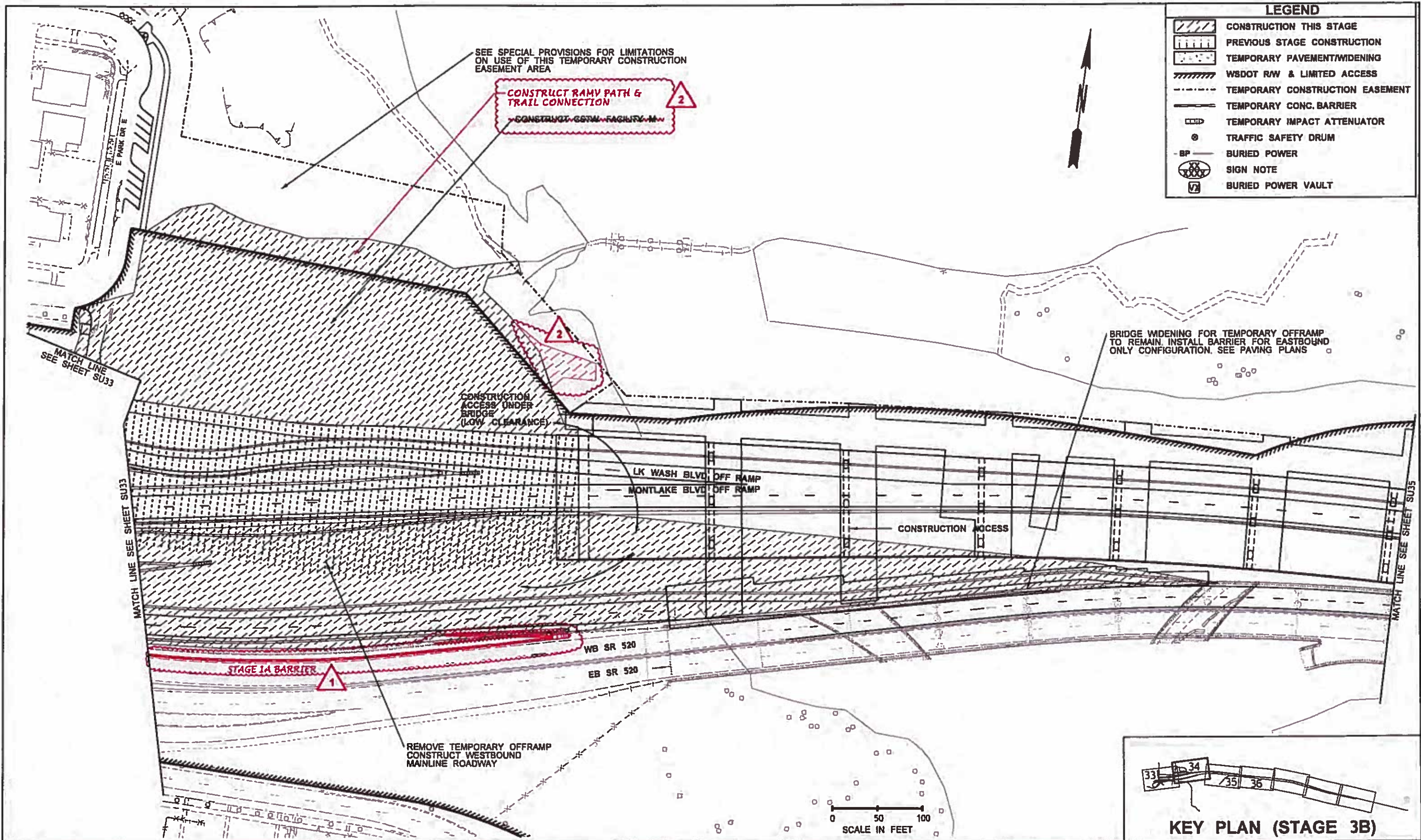


NOTE:
 1. ALL PAVEMENT AND SURFACING DEPTHS SHOWN ARE COMPACTED DEPTHS (SEE STD. SPEC. 5-04.3(9) FOR MAXIMUM DEPTHS PER LAYER)
 2. NST : NOT STEEPER THAN

NOT TO SCALE

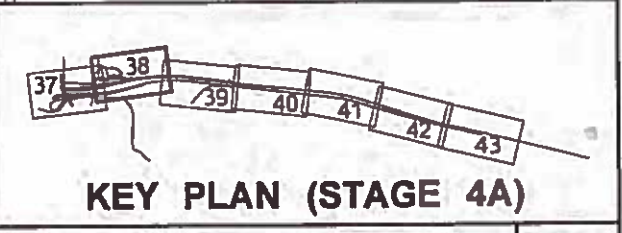
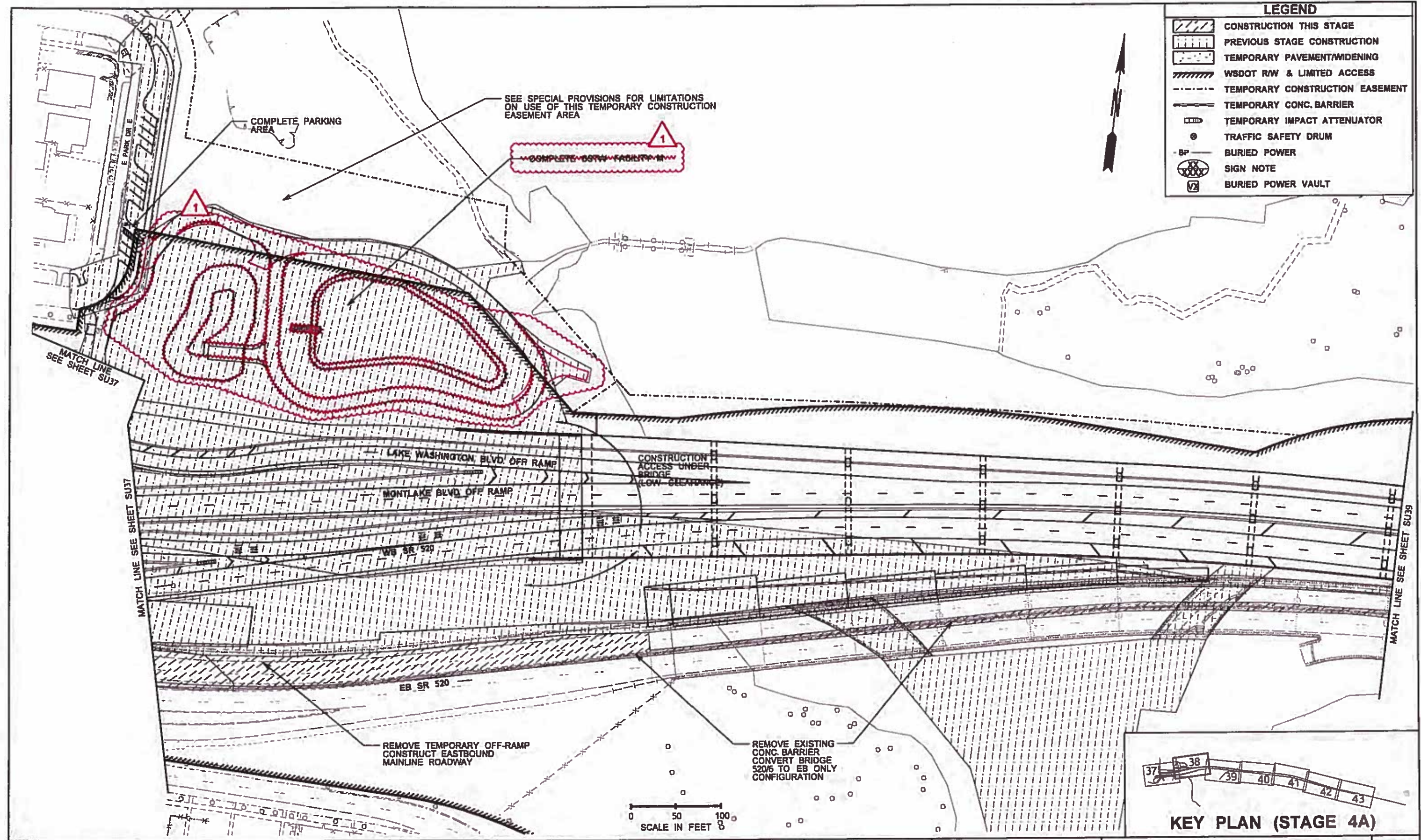
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CO#115 - DELETE FACILITY M REVISION							12/23/15 DATE	CL BY	ROADWAY SECTIONS								

LEGEND	
	CONSTRUCTION THIS STAGE
	PREVIOUS STAGE CONSTRUCTION
	TEMPORARY PAVEMENT/WIDENING
	WSDOT R/W & LIMITED ACCESS
	TEMPORARY CONSTRUCTION EASEMENT
	TEMPORARY CONC. BARRIER
	TEMPORARY IMPACT ATTENUATOR
	TRAFFIC SAFETY DRUM
	BURIED POWER
	SIGN NOTE
	BURIED POWER VAULT



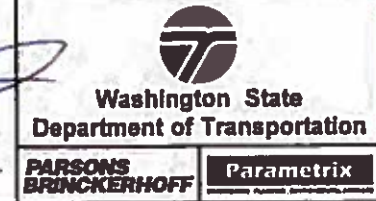
FILE NAME		REGION NO.		STATE		FED.AID PROJ.NO.		 PARSONS BRINCKERHOFF Parametrix	Contract 8625 Change Order #115 Page 13 of 72	PLAN REF. NO. SU34
TIME	11:49:33 AM	10	WASH							
DATE	8/2/2016	JOB NUMBER		CONTRACT NO.		LOCATION NO.				
PLOTTED BY	achiccv	13A012								
DESIGNED BY	Y. CHANG									
ENTERED BY	S. SHARPE									
CHECKED BY	P. MERRELL									
PROJ. ENGR.	D. EDWARDS									
REGIONAL ADM.	J. MEREDITH									
CO#115 - DELETE FACILITY M STAGING ATTENUATOR RELOCATION		12/8/2015 7/8/15		PW PM		DATE BY		CONSTRUCTION STAGING PLAN		

LEGEND	
	CONSTRUCTION THIS STAGE
	PREVIOUS STAGE CONSTRUCTION
	TEMPORARY PAVEMENT/WIDENING
	WSDOT RW & LIMITED ACCESS
	TEMPORARY CONSTRUCTION EASEMENT
	TEMPORARY CONC. BARRIER
	TEMPORARY IMPACT ATTENUATOR
	TRAFFIC SAFETY DRUM
	BURIED POWER
	SIGN NOTE
	BURIED POWER VAULT



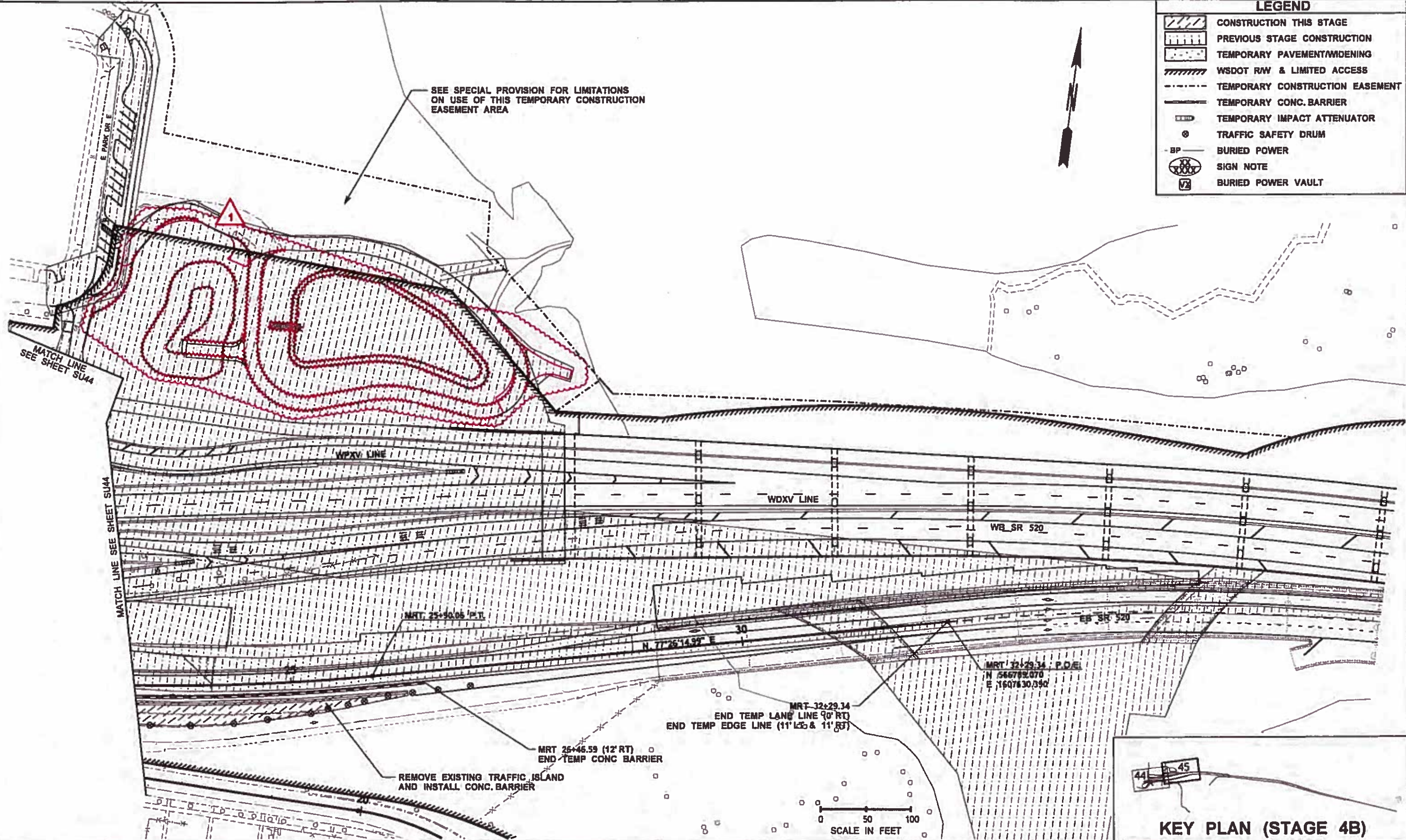
FILE NAME	TIME 11:50:54 AM	DATE 8/2/2016	PLOTTED BY schloev	DESIGNED BY Y. CHANG	ENTERED BY S. SHARPE	CHECKED BY P. MERRELL	PROJ. ENGR. D. EDWARDS	REGIONAL ADM. J. MEREDITH	REVISION	DATE	BY	REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	CONTRACT NO. 13A012	LOCATION NO.	SCALE IN FEET 0 50 100	KEY PLAN (STAGE 4A)	CONTRACT 8625 Change Order #115 Page 14 of 72	PLAN REF. NO. SU38	SHEET 86 OF 1797 SHEETS
									CO#115 - DELETE FACILITY M	12/8/2015	PW									CONSTRUCTION STAGING PLAN	

HR
ENGINEERING INC.



LEGEND	
	CONSTRUCTION THIS STAGE
	PREVIOUS STAGE CONSTRUCTION
	TEMPORARY PAVEMENT/WDENING
	WSDOT R/W & LIMITED ACCESS
	TEMPORARY CONSTRUCTION EASEMENT
	TEMPORARY CONC. BARRIER
	TEMPORARY IMPACT ATTENUATOR
	TRAFFIC SAFETY DRUM
	BURIED POWER
	SIGN NOTE
	BURIED POWER VAULT

SEE SPECIAL PROVISION FOR LIMITATIONS ON USE OF THIS TEMPORARY CONSTRUCTION EASEMENT AREA



KEY PLAN (STAGE 4B)

FILE NAME	TIME 11:52:37 AM	DATE 8/2/2016	DESIGNED BY Y. CHANG	ENTERED BY S. SHARPE	CHECKED BY P. MERRELL	PROJ. ENGR. D. EDWARDS	REGIONAL ADM. J. MEREDITH	REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	CONTRACT NO. 13A012	LOCATION NO.						Contract 8625 Change Order #115 Page 15 of 72	PLAN REF. NO. SU45 SHEET 93 OF 1797 SHEETS
CO#115 - DELETE FACILITY M REVISION							12/8/2015 DATE	PW BY	CONSTRUCTION STAGING PLAN										

GENERAL NOTES:

1. SEE UTILITIES PLANS FOR REMOVAL/PROTECTED UTILITIES.
2. SEE STAGING PLANS FOR TEMPORARY REMOVAL ITEMS.
3. SEE TRAFFIC PLANS FOR REMOVAL OF SIGN AND ILLUMINATION.
4. SEE DRAINAGE SITE PREPARATION SHEETS FOR REMOVAL OF DRAINAGE STRUCTURES.
5. SEE PAVING PLANS AND PAVING DETAILS FOR PLANING BITUMINOUS PAVEMENT AND SAW CUT DETAILS.
6. SEE ENVIRONMENTAL COMPLIANCE PLANS FOR VEGETATION PROTECTION, LIMITS OF HIGH VISIBILITY FENCE, AND HIGH VISIBILITY SILT FENCE.
7. PRIOR TO ANY CONSTRUCTION HIGH VISIBILITY FENCE, HIGH VISIBILITY STAKING, AND HIGH VISIBILITY SILT FENCE SHALL BE INSTALLED.
8. SEE STRUCTURE DEMOLITION PLANS FOR DETAILS RELATED TO REMOVING EXISTING BRIDGES AND REMOVING PORTION OF EXISTING BRIDGES.
9. SEE PLANE SHEETS SP01, SP02, AND SP03 FOR MOHAI BUILDING DEMOLITION AND ADDITIONAL REMOVAL ITEMS.

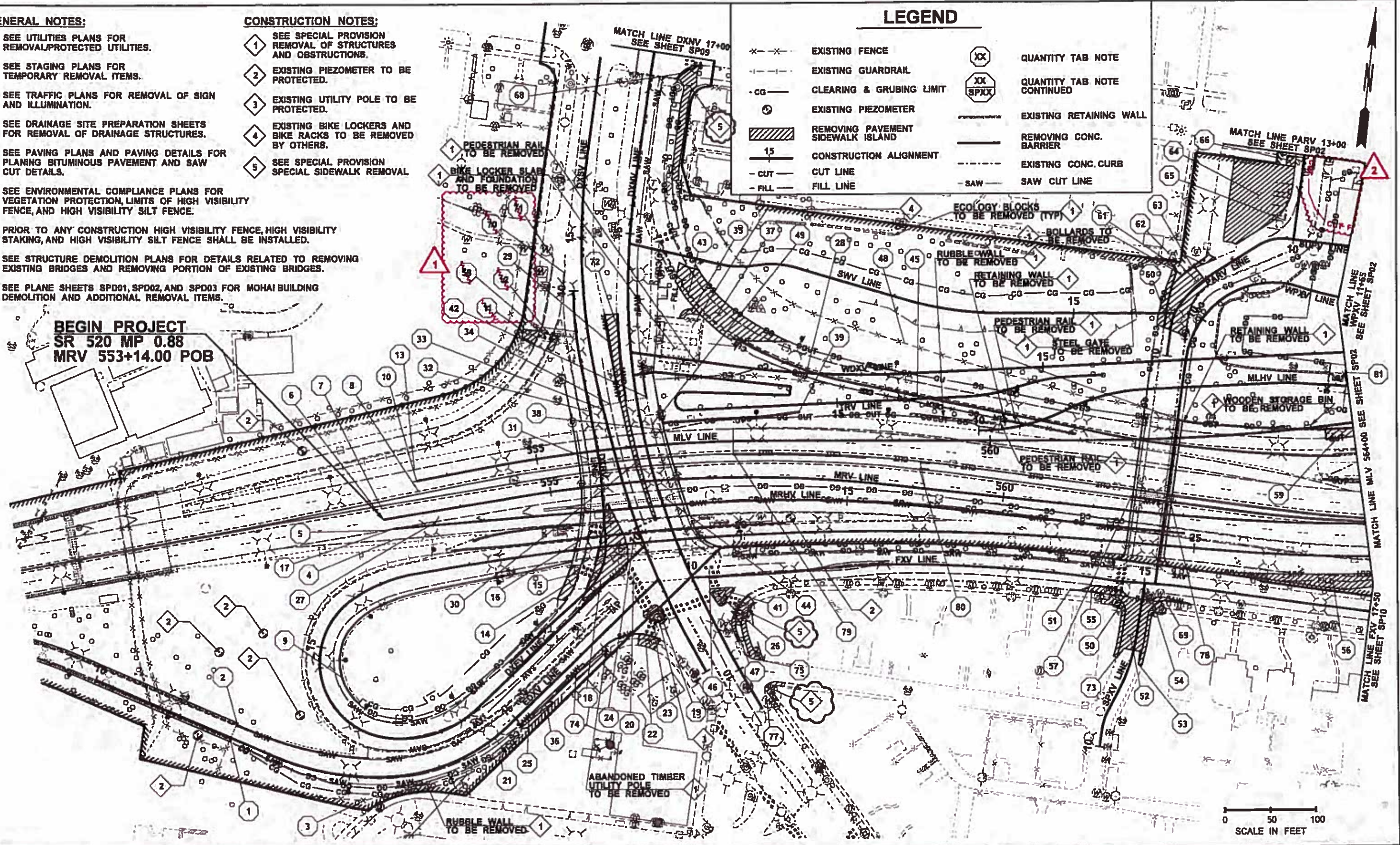
CONSTRUCTION NOTES:

1. SEE SPECIAL PROVISION REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
2. EXISTING PIEZOMETER TO BE PROTECTED.
3. EXISTING UTILITY POLE TO BE PROTECTED.
4. EXISTING BIKE LOCKERS AND BIKE RACKS TO BE REMOVED BY OTHERS.
5. SEE SPECIAL PROVISION SPECIAL SIDEWALK REMOVAL

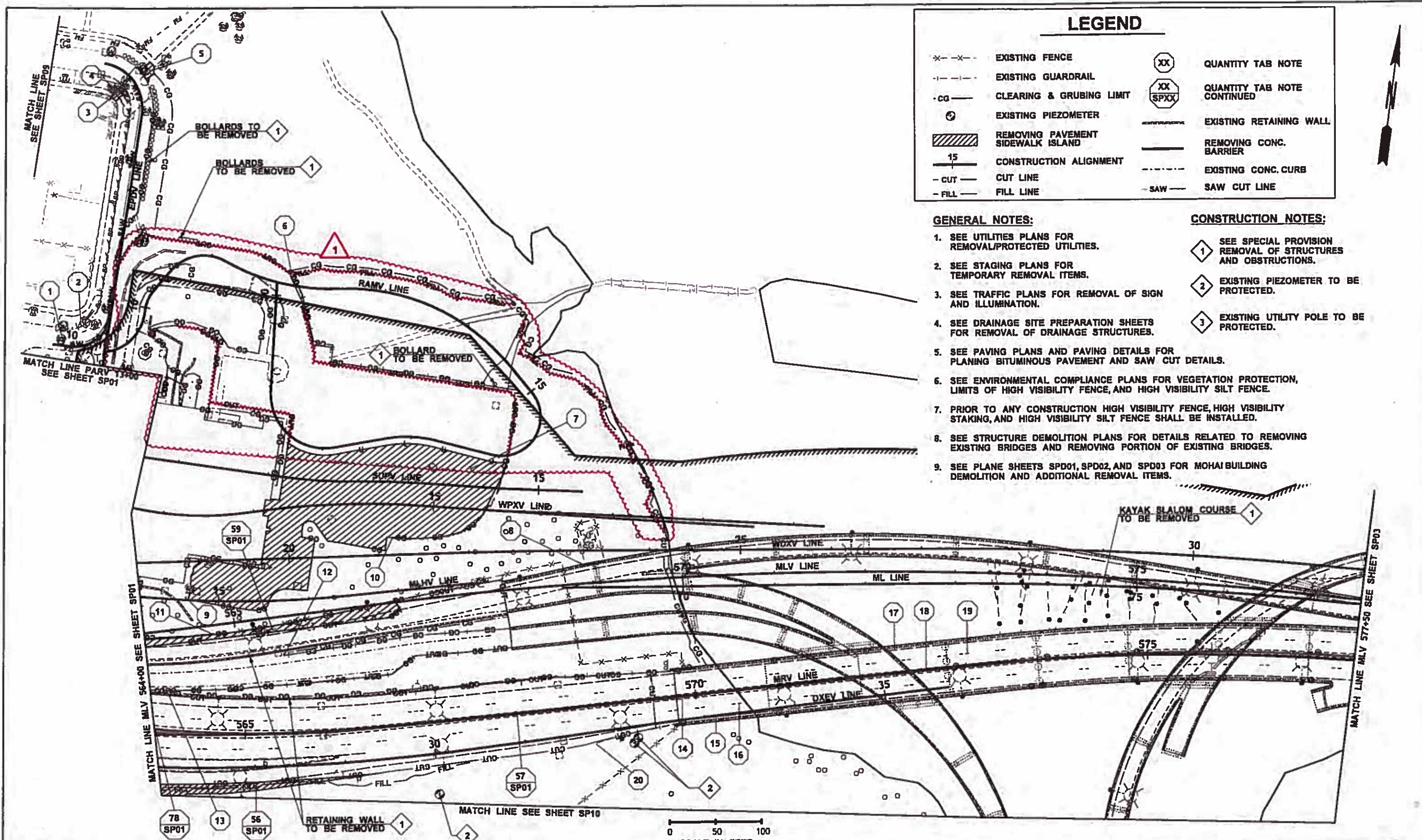
LEGEND

- x-x- EXISTING FENCE
- - - EXISTING GUARDRAIL
- CG- CLEARING & GRUBING LIMIT
- ⊙ EXISTING PIEZOMETER
- ▨ REMOVING PAVEMENT SIDEWALK ISLAND
- 15 CONSTRUCTION ALIGNMENT
- CUT - CUT LINE
- FILL - FILL LINE
- XX QUANTITY TAB NOTE
- XX SPXX QUANTITY TAB NOTE CONTINUED
- EXISTING RETAINING WALL
- REMOVING CONC. BARRIER
- EXISTING CONC. CURB
- SAW SAW CUT LINE

BEGIN PROJECT
SR 520 MP 0.88
MRV 553+14.00 POB



FILE NAME		TIME		DATE		PLOTTED BY		DESIGNED BY		ENTERED BY		CHECKED BY		PROJ. ENGR.		REGIONAL ADM.		FED.AID PROJ.NO.		LOCATION NO.		WASHINGTON STATE PROFESSIONAL ENGINEER		Washington State Department of Transportation		PARSONS BRINCKERHOFF		Parametrix		Contract 8625 Change Order #115 Page 16 of 72		PLAN REF. NO. SP01		SHEET 126 OF 1797 SHEETS	
CO#115 - DELETE FACILITY M		11/2/2015		8/2/2016		schicov		M. ASRES		M. ASRES		P. MERRELL		D. EDWARDS		J. MEREDITH		10 WASH		13A012		PHILIP S. MERRELL		Department of Transportation		PARSONS BRINCKERHOFF		Parametrix		Contract 8625 Change Order #115 Page 16 of 72		PLAN REF. NO. SP01		SHEET 126 OF 1797 SHEETS	
AS-BUILT REVISIONS		PW		KP		MA		MA		MA		MA		MA		MA		10 WASH		13A012		PHILIP S. MERRELL		Department of Transportation		PARSONS BRINCKERHOFF		Parametrix		Contract 8625 Change Order #115 Page 16 of 72		PLAN REF. NO. SP01		SHEET 126 OF 1797 SHEETS	
AD5 - DEL QT NOTES & ADD CN NOTES		06/24/2014		06/10/2014		06/03/2014		06/03/2014		06/03/2014		06/03/2014		06/03/2014		06/03/2014		10 WASH		13A012		PHILIP S. MERRELL		Department of Transportation		PARSONS BRINCKERHOFF		Parametrix		Contract 8625 Change Order #115 Page 16 of 72		PLAN REF. NO. SP01		SHEET 126 OF 1797 SHEETS	
AD4 - BLOCKS & GATE TO BE REMOVED		MA		MA		MA		MA		MA		MA		MA		MA		10 WASH		13A012		PHILIP S. MERRELL		Department of Transportation		PARSONS BRINCKERHOFF		Parametrix		Contract 8625 Change Order #115 Page 16 of 72		PLAN REF. NO. SP01		SHEET 126 OF 1797 SHEETS	
AD3 - ADD CN NOTE 4		MA		MA		MA		MA		MA		MA		MA		MA		10 WASH		13A012		PHILIP S. MERRELL		Department of Transportation		PARSONS BRINCKERHOFF		Parametrix		Contract 8625 Change Order #115 Page 16 of 72		PLAN REF. NO. SP01		SHEET 126 OF 1797 SHEETS	
REVISION		DATE		BY		DATE		BY		DATE		BY		DATE		BY		10 WASH		13A012		PHILIP S. MERRELL		Department of Transportation		PARSONS BRINCKERHOFF		Parametrix		Contract 8625 Change Order #115 Page 16 of 72		PLAN REF. NO. SP01		SHEET 126 OF 1797 SHEETS	



FILE NAME	TIME	DATE	DESIGNED BY	ENTERED BY	CHECKED BY	PROJ. ENGR.	REGIONAL ADM.	REGION NO.	STATE	FED.AID PROJ.NO.	LOCATION NO.						Contract 8625 Change Order #115 Page 17 of 72	PLAN REF. NO.
11:56:35 AM	8/2/2016	M. ASRES	M. ASRES	P. MERRELL	D. EDWARDS	J. MEREDITH	10	WASH										
CO#115 - DELETE FACILITY M REVISION								12/8/2015	PW			SHEET 127 OF 1797 SHEETS SITE PREPARATION PLAN						



LEGEND

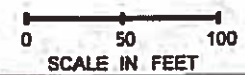
-x-x-	EXISTING FENCE	⊗	QUANTITY TAB NOTE
- - -	EXISTING GUARDRAIL	⊗	QUANTITY TAB NOTE CONTINUED
-CG-	CLEARING & GRUBING LIMIT	⊗	EXISTING RETAINING WALL
⊙	EXISTING PIEZOMETER	⊗	EXISTING CONC. BARRIER
▨	REMOVING PAVEMENT SIDEWALK ISLAND	⊗	EXISTING CONC. CURB
15	CONSTRUCTION ALIGNMENT	-SAW-	SAW CUT LINE
-CUT-	CUT LINE		
-FILL-	FILL LINE		

GENERAL NOTES:

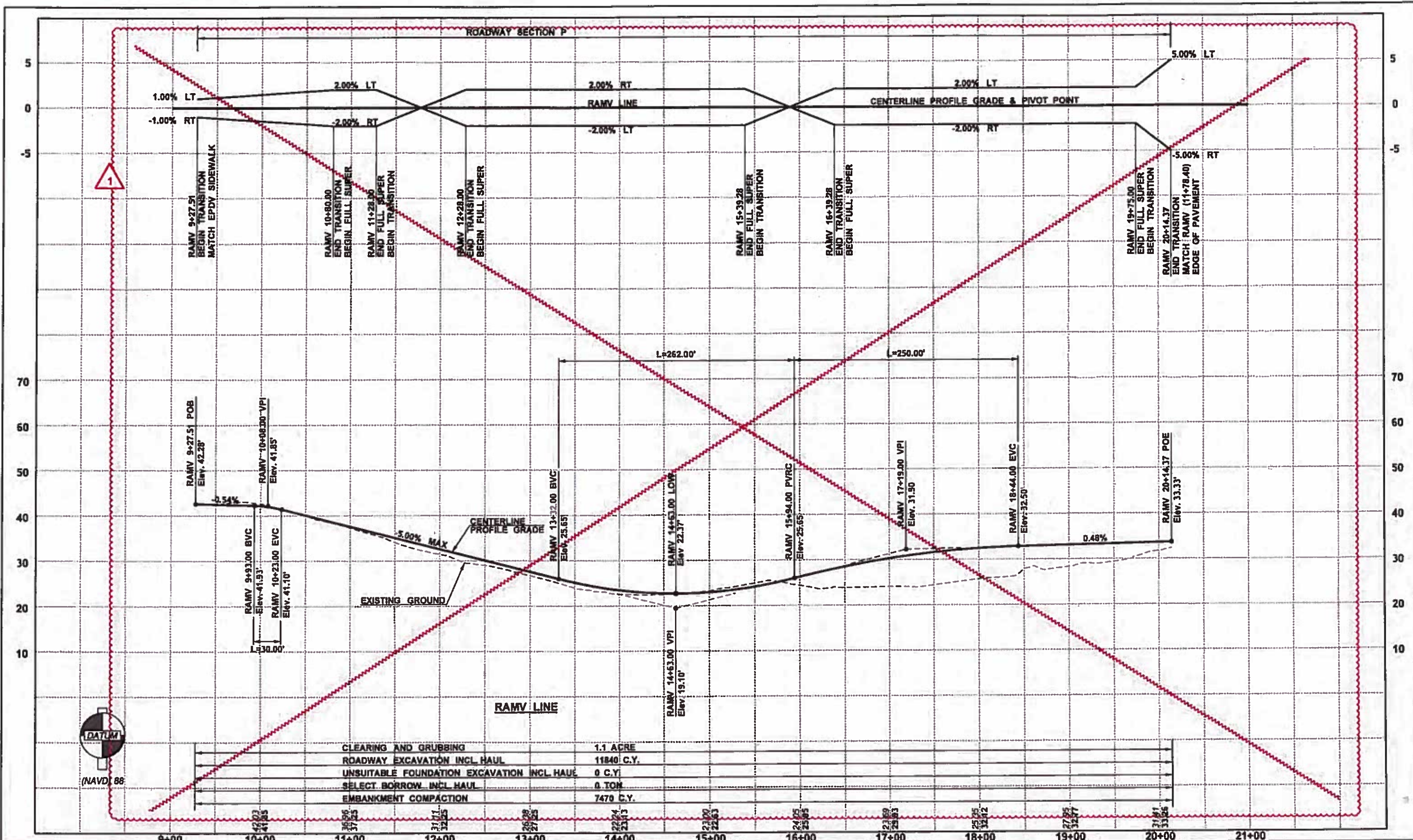
1. SEE UTILITIES PLANS FOR REMOVAL/PROTECTED UTILITIES.
2. SEE STAGING PLANS FOR TEMPORARY REMOVAL ITEMS.
3. SEE TRAFFIC PLANS FOR REMOVAL OF SIGN AND ILLUMINATION.
4. SEE DRAINAGE SITE PREPARATION SHEETS FOR REMOVAL OF DRAINAGE STRUCTURES.
5. SEE PAVING PLANS AND PAVING DETAILS FOR PLANING BITUMINOUS PAVEMENT AND SAW CUT DETAILS.
6. SEE ENVIRONMENTAL COMPLIANCE PLANS FOR VEGETATION PROTECTION, LIMITS OF HIGH VISIBILITY FENCE, AND HIGH VISIBILITY SILT FENCE.
7. PRIOR TO ANY CONSTRUCTION HIGH VISIBILITY FENCE, HIGH VISIBILITY STAKING, AND HIGH VISIBILITY SILT FENCE SHALL BE INSTALLED.
8. SEE STRUCTURE DEMOLITION PLANS FOR DETAILS RELATED TO REMOVING EXISTING BRIDGES AND REMOVING PORTION OF EXISTING BRIDGES.
9. SEE PLANE SHEETS SPD01, SPD02, AND SPD03 FOR MOHA! BUILDING DEMOLITION AND ADDITIONAL REMOVAL ITEMS.

CONSTRUCTION NOTES:

1. SEE SPECIAL PROVISION REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
2. EXISTING PIEZOMETER TO BE PROTECTED.
3. EXISTING UTILITY POLE TO BE PROTECTED.



FILE NAME: TIME 11:58:07 AM DATE 8/2/2016 PLOTTED BY schlec DESIGNED BY M. ASRES ENTERED BY M. ASRES CHECKED BY P. MERRELL PROJ. ENGR. D. EDWARDS REGIONAL ADM. J. MEREDITH	CO#115 - DELETE FACILITY M REVISION	12/8/2015 DATE	PW BY	REGION NO. 10 STATE WASH JOB NUMBER 13A012 CONTRACT NO.	FED.AID PROJ.NO. LOCATION NO.	 	 PARSONS BRINCKERHOFF Parametrix	Contract 8625 Change Order #115 Page 18 of 72	PLAN REF. NO. SP02A SHEET 127a OF 1797 SHEETS
SITE PREPARATION PLAN									



CLEARING AND GRUBBING	1.1 ACRE
ROADWAY EXCAVATION INCL HAUL	11840 C.Y.
UNSUITABLE FOUNDATION EXCAVATION INCL HAUL	0 C.Y.
SELECT BORROW INCL HAUL	0 TON
EMBANKMENT COMPACTION	7470 C.Y.

FILE NAME	
TIME	11:59:33 AM
DATE	8/2/2016
PLOTTED BY	schlccv
DESIGNED BY	C. LEE
ENTERED BY	S. SHARPE
CHECKED BY	P. MERRELL
PROJ. ENGR.	D. EDWARDS
REGIONAL ADM.	J. MEREDITH

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
13A012		
CONTRACT NO.	LOCATION NO.	

HR
ENGINEERING INC.

Professional Engineer
P.E. STAMP BOX

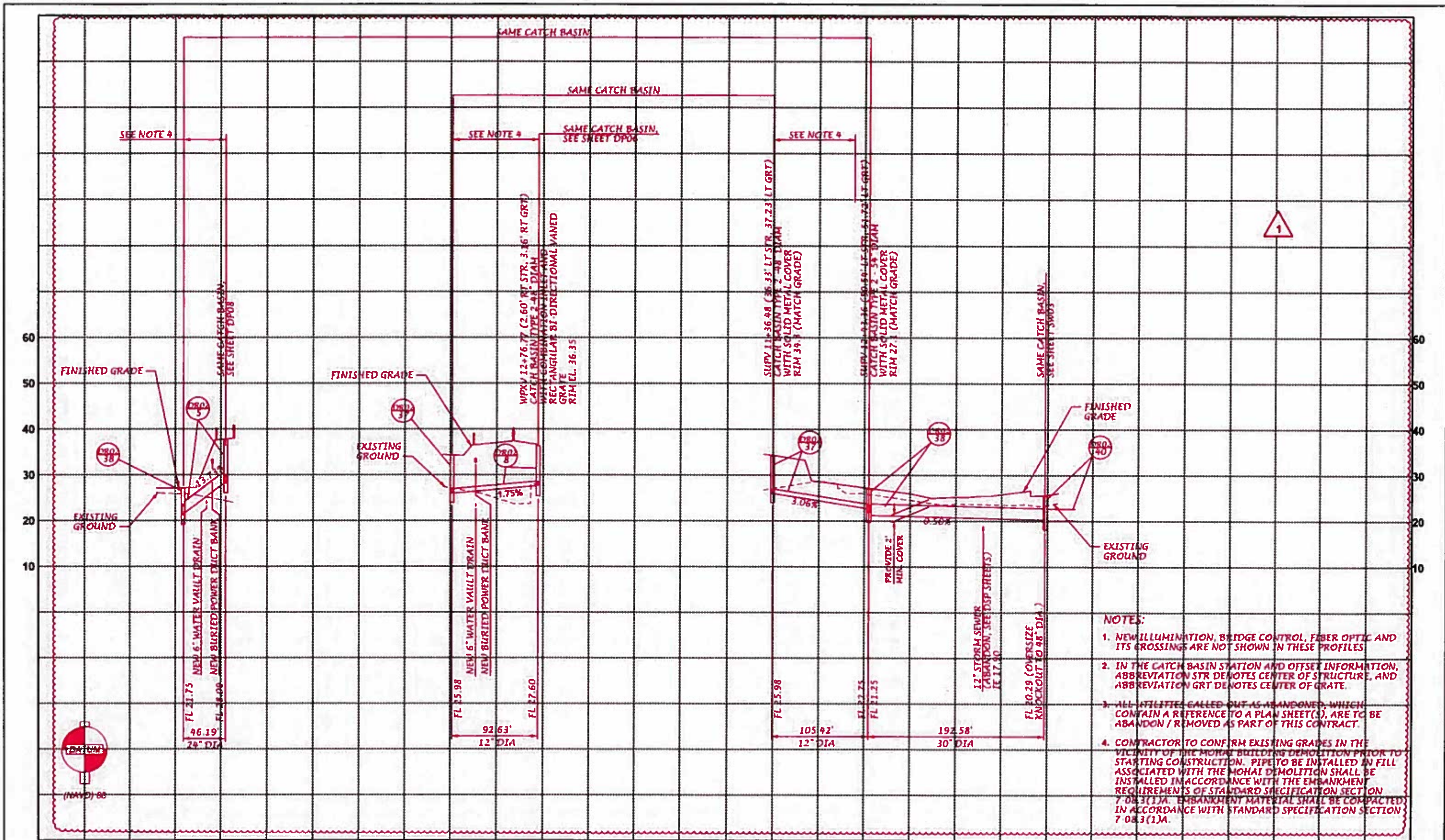
Washington State
Department of Transportation

PARSONS BRINCKERHOFF
Parametrix

Contract 8625
Change Order #115
Page 19 of 72

ROADWAY PROFILE

PLAN REF. NO.	RP14
SHEET	160
OF	1797
SHEETS	

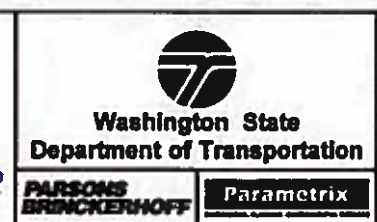


- NOTES:**
1. NEW ILLUMINATION, BRIDGE CONTROL, FIBER OPTIC AND ITS CROSSINGS ARE NOT SHOWN IN THESE PROFILES
 2. IN THE CATCH BASIN STATION AND OFFSET INFORMATION, ABBREVIATION STR DENOTES CENTER OF STRUCTURE, AND ABBREVIATION GRT DENOTES CENTER OF GRATE.
 3. ALL UTILITIES CALLED OUT AS ABANDONED, WHICH CONTAIN A REFERENCE TO A PLAN SHEET(S), ARE TO BE ABANDON / REMOVED AS PART OF THIS CONTRACT.
 4. CONTRACTOR TO CONFIRM EXISTING GRADES IN THE VICINITY OF THE MOHAI BUILDING DEMOLITION PRIOR TO STARTING CONSTRUCTION. PIPE TO BE INSTALLED IN FILL ASSOCIATED WITH THE MOHAI DEMOLITION SHALL BE INSTALLED IN ACCORDANCE WITH THE EMBANKMENT REQUIREMENTS OF STANDARD SPECIFICATION SECTION 7 08.3(1)A. EMBANKMENT MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 7 08.3(1)A.

FILE NAME
 TIME 12:08:03 PM
 DATE 8/2/2016
 PLOTTED BY schkcv
 DESIGNED BY J. VANIER
 ENTERED BY J. BEAN
 CHECKED BY J. COOP
 PROJ. ENGR. D. EDWARDS
 REGIONAL ADM. J. MEREDITH

CO#115 - DELETE FACILITY M
 REVISION
 12/1/15
 DATE
 JLC
 BY

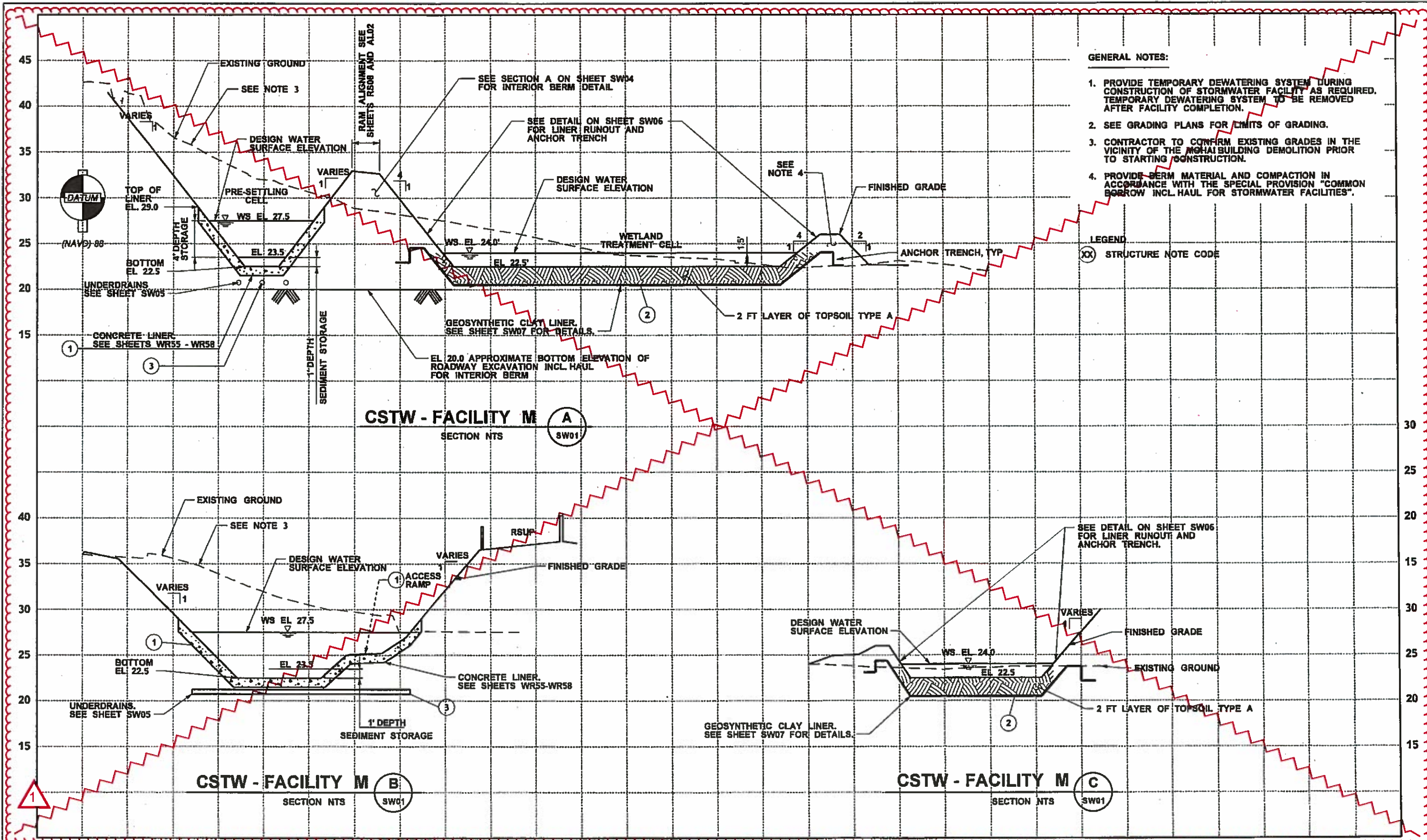
FED.AID PROJ.NO.
 10 WASH
 JOB NUMBER
 13A012
 CONTRACT NO.
 LOCATION NO.



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 Change Order #115
 Page 21 of 72

PLAN REF. NO.
 DP11
 SHEET
 246a
 OF
 1797
 SHEETS

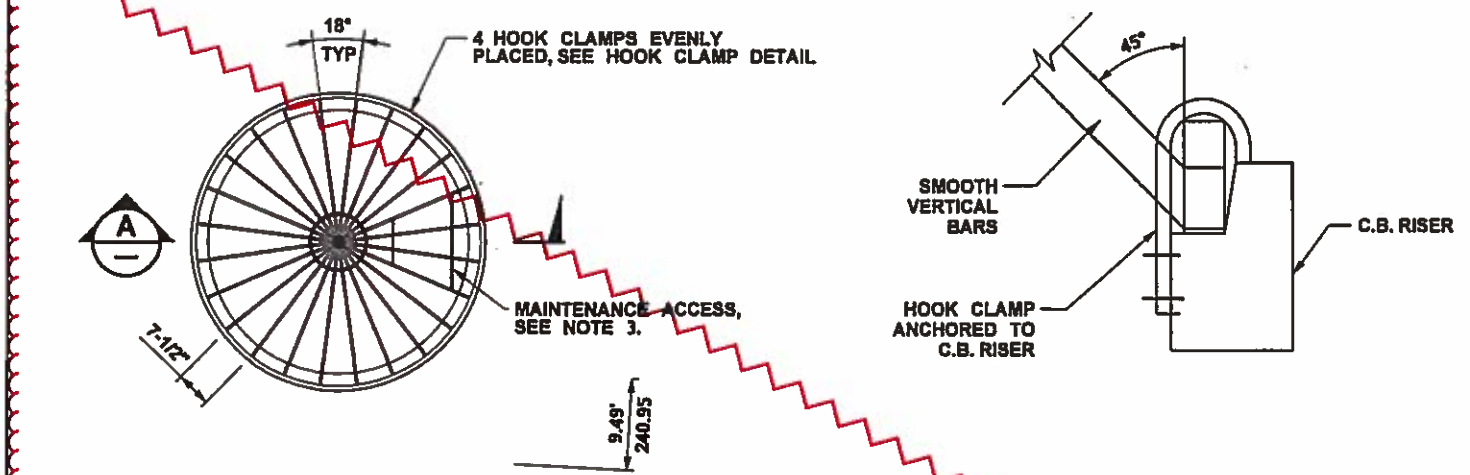
DRAINAGE PROFILE



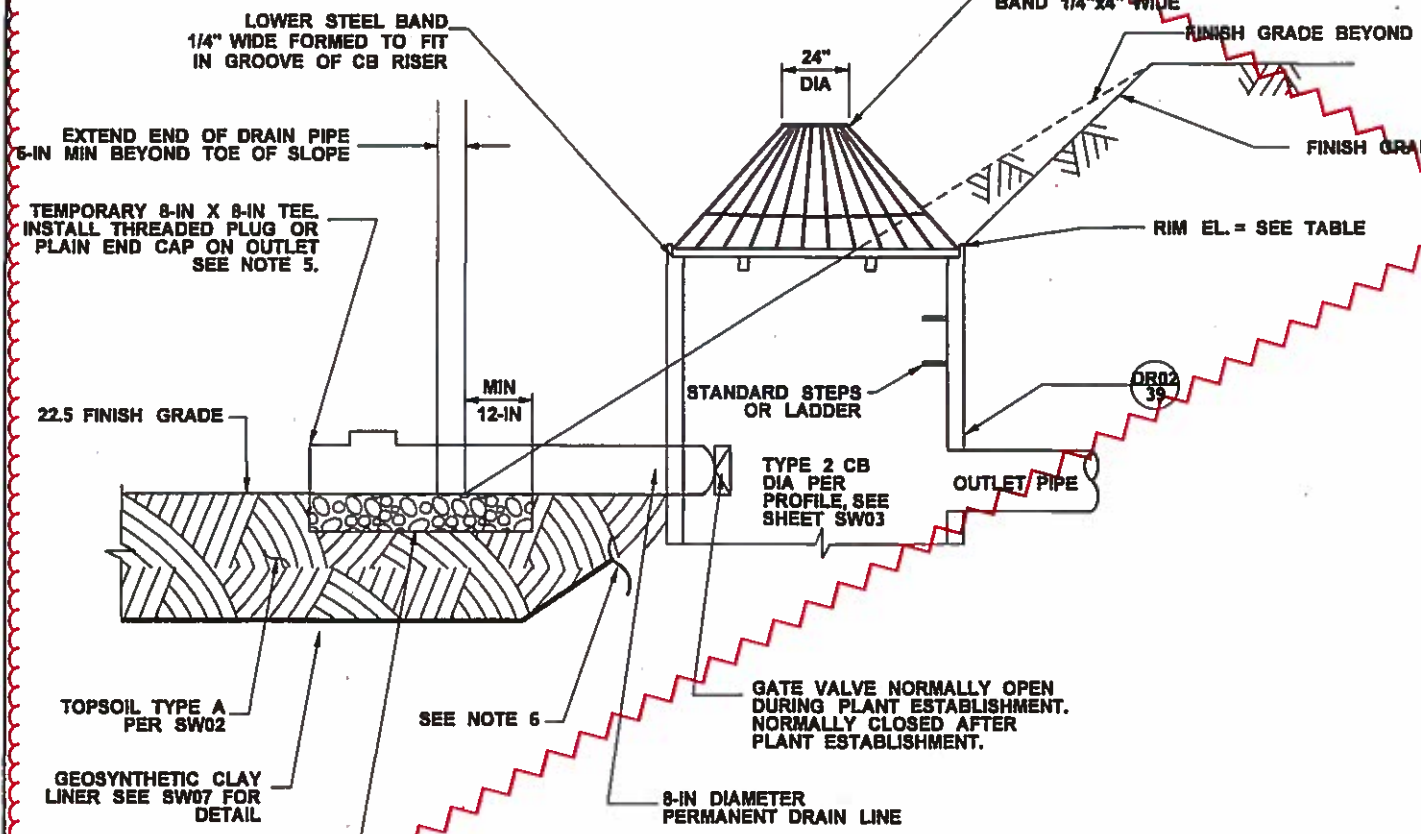
FILE NAME: PW:\CADD\Proj\Westside\CADD\PS&ESheets\SWWABNPE2344_WABN_PS_SW_02.dgn		REGION NO.:	STATE:	FED.AID PROJ.NO.:			Contract 8625 Change Order #115 Page 23 of 72	PLAN REF. NO.:
TIME: 3:09:45 PM	DATE: 4/4/2014	10	WASH					SHEET 262 OF 1797 SHEETS
PLOTTED BY: deguzma	DESIGNED BY: J. COOP	JOB NUMBER: 13A012	CONTRACT NO.:	LOCATION NO.:			STORMWATER FACILITIES	
ENTERED BY: D. NGUYEN	CHECKED BY: J. COOP	DATE: 12/9/15	BY: JLC					
PROJ. ENGR: D. EDWARDS	REGIONAL ADM: J. MEREDITH	CO#115 - DELETE FACILITY M REVISION						

NOTES:

1. WHERE THE MAXIMUM OPENING OF VERTICAL BARS EXCEEDS 4" ADD CONCENTRIC HORIZONTAL RINGS AS NEEDED SO THAT OPENINGS OF DEBRIS CAGE DO NOT EXCEED 4" IN ALL DIRECTIONS.
2. METAL PARTS SHALL BE CORROSION RESISTANT; GALVANIZING NOT ALLOWED. USE ALUMINUM OR STAINLESS STEEL.
3. PROVIDE MAINTENANCE ACCESS BY WELDING 4 CROSSBARS TO 4 VERTICAL BARS AS SHOWN. HINGE UPPER ENDS WITH FLANGES/BOLTS AND PROVIDE LOCKING MECHANISM (PADLOCK ON LOWER END. LOCATE STEPS DIRECTLY BELOW. PROVIDE TWO ADDITIONAL VERTICAL BARS ADJACENT TO MAINTENANCE ACCESS FOR HINGE OPENING SUPPORT. PROVIDE 24" MINIMUM OPENING DIMENSION.
4. 8-INCH DIAMETER WATER LEVEL CONTROL PIPE AND VALVE REQUIRED ONLY FOR DR02-39.
5. REMOVE TEMPORARY TEE AND TEMPORARY PLUG/CAP AFTER PLANT ESTABLISHMENT HAS BEEN ACCEPTED BY THE ENGINEER.
6. CONSTRUCT THE GEOSYNTHETIC CLAY LINER AROUND THE DRAIN LINE AND DRAINAGE STRUCTURES TO THE MINIMUM ELEVATION SHOWN IN THE GEOSYNTHETIC CLAY LINER DETAIL SHEET SW07. PROVIDE ANCHOR TRENCH IN ACCORDANCE WITH THE DETAIL PROVIDE LINER OVERLAP IN ACCORDANCE WITH THE SPECIAL PROVISION "EROSION CONTROL AND WATER POLLUTION CONTROL"

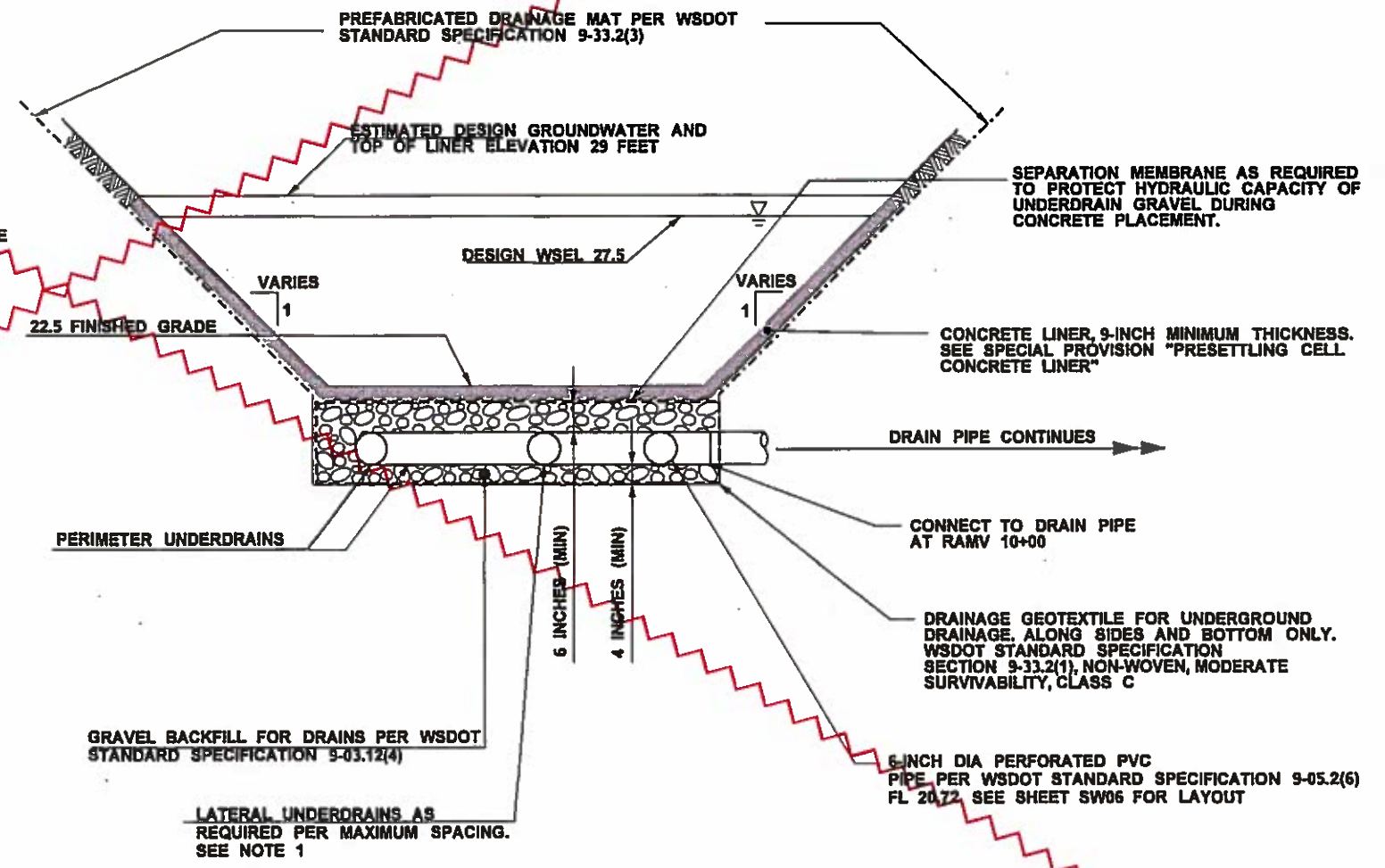


STRUCTURE	RIM ELEVATION
DR02-37	24.49
DR02-39	24.00



DEBRIS CAGE (A)

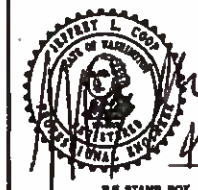
DEBRIS CAGE FOR EMERGENCY OVERFLOW STRUCTURES



PRE-SETTLING CELL CONCRETE LINER AND UNDERDRAIN DETAIL

NTS

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TIME	3:10:02 PM		
DATE	4/4/2014		
PLOTTED BY	deguzma		
DESIGNED BY	J. COOP		
ENTERED BY	J. BEAN		
CHECKED BY	J. COOP		
PROJ. ENGR.	D. EDWARDS		
REGIONAL ADM.	J. MEREDITH		
REVISION	1	CO#115 - DELETE FACILITY M	12/9/15
			JLC
			DATE BY
REGION	10	STATE	WASH
JOB NUMBER	13A012		
CONTRACT NO.			
LOCATION NO.			
FED.AID PROJ.NO.			

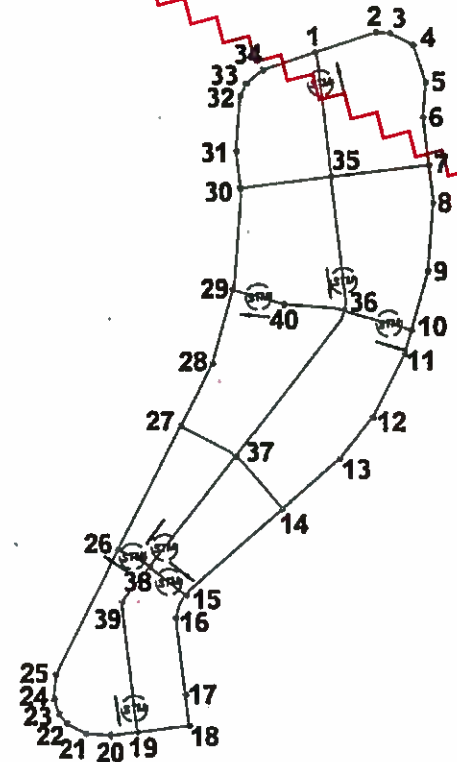


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PLAN REF. NO.
SW05

SHEET
265
OF
1797
SHEETS

STORMWATER FACILITIES



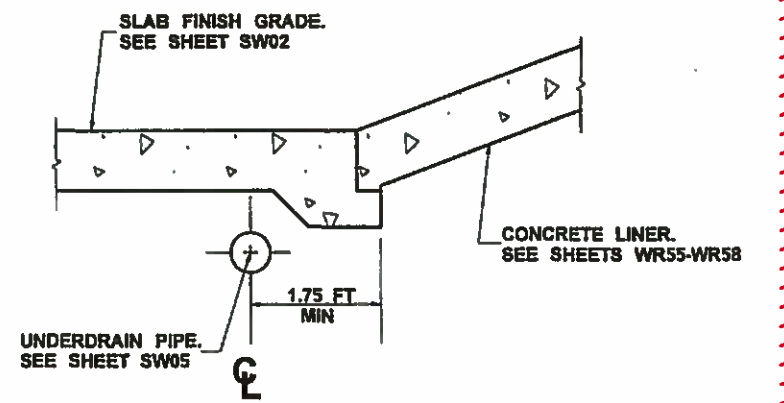
PRESETTLING CELL UNDERDRAIN LAYOUT

CLEANOUT DIRECTION



POINT	NORTHING	EASTING	CROSS	TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	CLEANOUT	NOTE
1	567,046.572	1,606,762.776		1				1	1	1
2	567,048.688	1,606,769.164					1			3
3	567,048.579	1,606,770.645					1			3
4	567,047.366	1,606,773.060				1				3
5	567,043.501	1,606,774.340					1			3
6	567,039.879	1,606,774.076						1		3
7	567,034.916	1,606,774.691		1						1
8	567,030.996	1,606,775.178						1		3
9	567,023.866	1,606,774.657						1		3
10	567,017.780	1,606,772.977		1					1	1
11	567,015.328	1,606,772.301						1		3
12	567,008.696	1,606,768.968						1		3
13	567,004.315	1,606,765.555						1		3
14	566,999.095	1,606,759.479		1						1
15	566,990.085	1,606,749.340		1			1	1	1	1
16	566,987.734	1,606,748.328					1			3
17	566,979.768	1,606,749.316		1						1
18	566,976.526	1,606,749.718			1					2
19	566,975.859	1,606,744.350		1						1
20	566,975.515	1,606,741.576						1		3
21	566,975.704	1,606,738.991					1			3
22	566,976.722	1,606,736.966					1	1		4
23	566,977.749	1,606,736.078					1	1		4
24	566,979.287	1,606,735.569					1	1		4
25	566,981.812	1,606,735.753					1			3
26	566,994.856	1,606,742.308		1					1	1
27	567,007.660	1,606,748.741		1						1
28	567,014.179	1,606,752.017						1		3
29	567,021.867	1,606,754.138		1				1	1	1
30	567,032.462	1,606,754.912						1		1
31	567,036.270	1,606,754.440						1		3
32	567,041.973	1,606,754.856						1		3
33	567,043.241	1,606,755.494						1		3
34	567,044.732	1,606,757.220						1		3
35	567,033.657	1,606,764.542	1							1
36	567,019.724	1,606,765.934	1				2		1	1
37	567,004.562	1,606,754.535	1					2		1
38	566,999.036	1,606,754.553	1					1		1
39	566,989.345	1,606,742.677				1				3
40	567,020.371	1,606,759.558						1		3

- NOTES:
1. THE COORDINATES ARE AT THE INTERSECTION POINT OF THE PIPE CENTERLINE AT THE CROSS OR TEE. NO SEPARATE COORDINATES PROVIDED FOR BEND CONNECTED TO CROSSES OR TEES
 2. THE COORDINATES ARE AT THE PIPE CENTERLINE AT THE ANGLE POINT FOR 90° BENDS. NO SEPARATE COORDINATES PROVIDED FOR BENDS CONNECTED TO 90° BENDS.
 3. THE COORDINATES ARE AT THE PIPE CENTERLINE AT THE ANGLE POINT FOR BENDS LOCATED SEPARATELY FROM CROSSES, TEES, OR 90° BENDS.
 4. THE COORDINATES ARE AT THE PIPE CENTERLINE AT THE ANGLE POINT FOR THE BEND WITH THE LARGEST ANGLE WHERE MULTIPLE BENDS CONNECT.



PRESETTLING CELL UNDERDRAIN LOCATION

NTS

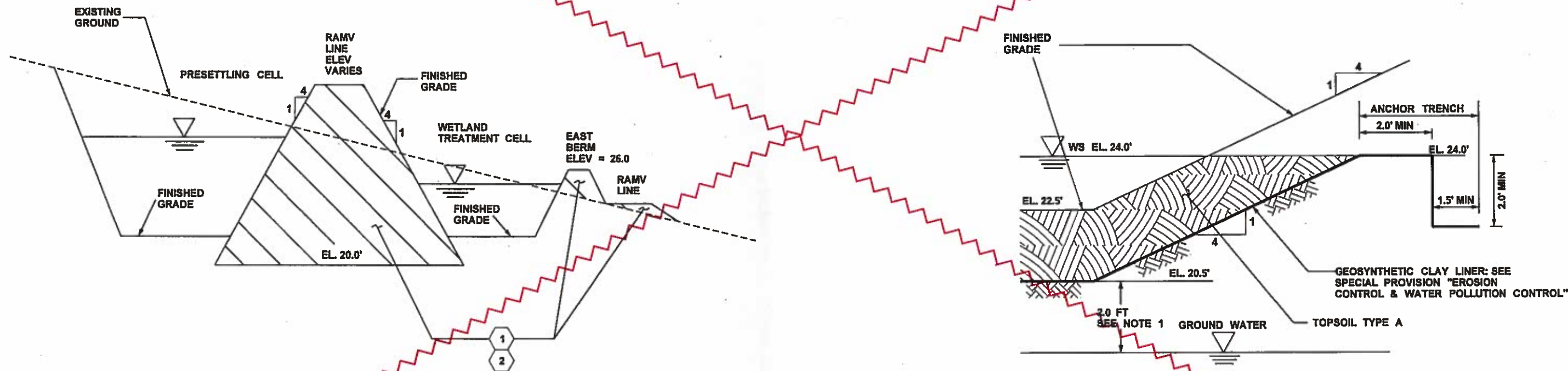
- NOTES:
1. GENERAL LOCATION. SEE TABLE FOR FITTING COORDINATES.

FILE NAME PW:\CADD\Proj\Westside\CADD\PS&ES\Sheet\SW\WABNPE2344_WABN_PS_SW_06.dgn	TIME 3:10:09 PM	DATE 4/4/2014	REGION NO. 10	STATE WASH	FED.AID PROJ.NO.				Contract 8625 Change Order #115 Page 25 of 72	PLAN REF. NO. SW06
PLOTTED BY deguzma	DESIGNED BY J. COOP	ENTERED BY D. NGUYEN	JOB NUMBER 13A012	CONTRACT NO.	LOCATION NO.					
CHECKED BY J. COOP	PROJ. ENGR. D. EDWARDS	REGIONAL ADM. J. MEREDITH	CO#115 - DELETE FACILITY M	12/9/15 JLC	DATE BY	STORMWATER FACILITIES				

NOTES:

1. BOTTOM OF ROADWAY EXCAVATION INCL HAUL BELOW PRESETTLINGS CELL SHALL BE TO THE ELEVATIONS REQUIRED TO CONSTRUCT THE CONCRETE LINER, DRAINAGE MAT AND UNDERDRAIN SYSTEM
2. BOTTOM OF ROADWAY EXCAVATION INCL HAUL BELOW THE WETLAND TREATMENT CELL SHALL BE AS REQUIRED TO CONSTRUCT THE GEOSYNTHETIC CLAY LINER AND TOPSOIL LAYER.
3. COMMON BORROW TO BE IN ACCORDANCE WITH THE SPECIAL PROVISION "COMMON BORROW INCL HAUL FOR STORMWATER FACILITIES" FROM RAMV STA 13+27 TO RAMV STA 15+85 FOR EAST BERM AND FROM RAMV STA 18+55 TO RAMV STA 19+85 FOR RAMV LINE.

- 1 COMMON BORROW INCL HAUL
SEE NOTE 3.
- 2 EMBANKMENT COMPACTION
SEE NOTE 3.



FILL AND COMPACTION

NTS

GEOSYNTHETIC CLAY LINER

NTS

- NOTES:**
1. PROVIDE TEMPORARY DEWATERING AS REQUIRED TO MAINTAIN 2 FT MINIMUM SEPARATION BETWEEN GEOSYNTHETIC CLAY LINER AND GROUND WATER DURING INSTALLATIONS SEE SPECIAL PROVISION "TEMPORARY CONSTRUCTION DEWATERING".

**STORMWATER FACILITY EARTHWORK
QUANTITY SCHEMATIC FOR POND RAMV LINE**

FILE NAME	PW:\CADD\Proj\Westside\CADD\PS&ESheets\SW\WABN\PE2344 WABN_PS_SW_07.dgn			REGION NO.	STATE	FED.AID PROJ.NO.			Contract 8625 Change Order #115 Page 26 of 72	PLAN REF. NO.	SW07
TIME	3:10:14 PM			10	WASH					SHEET	267
DATE	4/4/2014			JOB NUMBER				PARSONS BRINCKERHOFF Parametrix	SHEET	1797	
PLOTTED BY	deguzma			CONTRACT NO.					OF	9	
DESIGNED BY	J. COOP			LOCATION NO.					SHEETS	1797	
ENTERED BY	D. NGUYEN										
CHECKED BY	J. COOP										
PROJ. ENGR.	D. EDWARDS										
REGIONAL ADM.	J. MEREDITH										
	1 CO#115 - DELETE FACILITY M REVISION										
				DATE	12/9/15	BY	JLC				

STRUCTURE NOTES - DRAINAGE

NOTE: THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.		CL. V REINF. CONC. STORM SEWER PIPE 12 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 8 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 15 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	CASING PIPE, 24 IN. DIAM.	COS MAINT HOLE, TYPE 204B	COS CATCH BASIN, TYPE 240A	COS CATCH BASIN, TYPE 242B	SEWER CLEANOUT	DUCTILE IRON SEWER PIPE 12 IN. DIAM.	SEE GENERAL NOTES	GENERAL NOTES:
CODE	LOCATION & UNIT OF MEASURE	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EACH	EACH	EACH	EACH	L.F.		
DR01-56	FXV 15+40.14 (11.93'LT,STK PT) - FXV 14+61.23 (0.07'RT,STR)										1			39, 40, 41, 45	<p>27. CATCH BASIN AND GRATE SHALL BE INSTALLED AT THE STATION AND OFFSETS SHOWN ON THESE PLANS. THIS WILL CAUSE THE EXISTING PIPE ENTERING AND LEAVING THE CATCH BASIN TO BE OFFSET FROM THE CENTER OF THE STRUCTURE. THE KNOCKOUT PROVIDED FOR THIS CATCH BASIN SHALL ACCOMMODATE THIS SITUATION. CONTRACTOR SHALL SUBMIT DETAILED WORKING DRAWINGS.</p> <p>28. ROTATE EXISTING MANHOLE OR TYPE 2 CATCH BASIN TOP SLAB AS NECESSARY TO POSITION FRAME AND GRATE ADJACENT TO THE BARRIER. REPLACE TOP SLAB, ADJUSTMENT SECTIONS, AND FRAME AND GRATE AS NECESSARY TO PROVIDE A RECTANGULAR FRAME (REVERSIBLE) AND RECTANGULAR VANED GRATE IN ACCORDANCE WITH STANDARD PLANS B-30.10-01 AND B-30.30-01. CONTRACTOR SHALL SUBMIT DETAILED WORKING DRAWINGS.</p> <p>29. ADJUST STRUCTURE TO GRADE. SEE SHEET DD11 FOR STRUCTURE ADJUSTMENT ELEVATIONS. FOR COS STRUCTURES, SEE SPECIAL PROVISION "ADJUSTMENT OF NEW AND EXISTING COS SEWER STRUCTURES TO FINISH GRADE".</p> <p>30. CONNECT NEW PIPE(S) TO CATCH BASIN.</p> <p>31. AT THE UPSTREAM END OF THE UNDERDRAIN SYSTEM, INSTALL FITTINGS AS NECESSARY TO POSITION THE CLEANOUT OUTSIDE THE BARRIER FOOTPRINT AND WITHIN THE PAVEMENT AREA.</p> <p>32. CONNECT DRAIN PIPE TO THE CABLE VAULT VIA THE KNOCKOUT IN THE VAULT BOTTOM.</p> <p>33. FOR GATE VALVE REQUIREMENTS, SEE SPECIAL PROVISION "VALVES FOR WATER MAINS".</p> <p>34. CONTRACTOR SHALL FURNISH AND INSTALL ALL FITTINGS NECESSARY TO CONSTRUCT THE UNDERDRAIN SYSTEM. A SWEEPING/LONG RADIUS 90 DEGREE BEND OR A 45 DEGREE BEND IN COMBINATION WITH A WYE MAY BE SUBSTITUTED WHERE TWO 45 DEGREE BENDS ARE SHOWN ON THESE PLANS.</p>
DR01-57	FXV 14+24.65 (17.17'RT,STK PT) - FXV 14+61.23 (0.07'RT,STR)										1			39, 40, 41, 45	
DR01-58	DXEV 14+45.14 (21.67' RT) - DXEV 14+45.14 (16.78' LT)		38											1,3,7,8,26,38A	
DR01-59	EDXV 15+91.56 (10.88'RT) - EDXV 14+49.12 (15.02'RT)		145											1,3,7,8,38A,48	
DR01-60	EDXV 14+49.12 (15.02'RT) - EDXV 14+49.12 (20.32 LT)		35											1,3,7,8,26,38A	
DR01-61	EDXV 14+49.12 (20.32 LT) - EDXV 13+84.00 (19.66'LT)		58											1, 26, 29, 38A	
DR01-62	EDXV 13+84.00 (19.66'LT) - EDXV 12+96.24 (19.92'LT)		80											1, 3, 7, 8, 38A	
DR01-63	EDXV 12+96.24 (19.92'LT) - EDXV 12+01.84 (15.83'LT)		89											1, 3, 7, 8, 38A	
DR01-64	EDXV 12+01.84 (15.83'LT) - DXEV 14+45.14 (16.78 LT)		62											1,4,7,8,26,38A	
DR01-65	EDXV 12+96.24 (15.90'RT) - EDXV 12+96.24 (19.92'LT)		36											1,3,7,8, 30, 38A	
DR02-01	EPDV 13+27.77 (12.32' RT)													29	
DR02-02	EPDV 13+17.11 (10.77' RT)													29	
DR02-03	EPDV 13+01.92 (12.21' RT)													29	
DR02-05	SUPV 12+47.61 (4.53'LT STR,5.43'LT GRT) - SUPV 12+43.36 (50.54'LT STR,51.72'LT GRT)						46							1, 5, 7, 8, 49	
DR02-06	SUPV 15+13.17 (6.00'LT STR,6.90'LT GRT) - SUPV 12+47.61 (4.53'LT STR,5.43'LT GRT)						265							1, 5, 7, 8	
DR02-07	WPXV 12+51.32 (3.08'RT) - WPXV 12+76.77 (2.60'RT STR,3.16'RT GRT)			26										1, 3, 7, 8	
DR02-08	WPXV 12+76.77 (2.60'RT STR, 3.16'RT GRT) - SUPV 11+36.48 (36.33'LT STR,37.23'LT GRT)			93										1, 5, 9, 11, 14	
DR02-09	WPXV 13+03.78 (2.19'RT STR,3.09'RT GRT) - WPXV 12+76.77 (2.60'RT STR,3.16'RT GRT)			27										1, 5, 7, 8	
DR02-10	WPXV 13+66.14 (2.19'RT STR,3.09'RT GRT) - WPXV 13+03.78 (2.19'RT STR,3.09'RT GRT)			62										1, 5, 7, 8	
DR02-11	WDXV 20+30.62 (31.19'LT STR,32.09'LT GRT) - WPXV 13+66.14 (2.19'RT STR,3.09'RT GRT)			24										1, 5, 7, 8, 30	
DR02-12	WDXV 20+33.78 (2.18'RT STR,3.08'RT GRT) - WDXV 20+30.62 (31.19'LT STR,32.09'LT GRT)			34										1, 5, 7, 8	
DR02-13	WDXV 21+20.00 (3.08'RT) - WDXV 20+33.78 (2.18'RT STR,3.08'RT GRT)			86										1, 3, 7, 8	
DR02-14	WDXV 21+80.00 (3.08'RT) - WDXV 21+20.00 (3.08'RT)			60										1, 3, 7, 8	
DR02-15	WDXV 22+10.00 (3.08'RT) - WDXV 21+80.00 (3.08'RT)			30										1, 3, 7, 8	
SHEET TOTAL			543	442			311				2				

DESIGNED BY	R. NAIDU	09/23/13
ENTERED BY	R. NAIDU	12/09/13
CHECKED BY	J.COOP	02/12/14
PROJ. ENGR.	D. EDWARDS	
REGION ADM.	J. MEREDITH	
DATE	12/01/15	

REVISION	CO#115 - DELETE FACILITY M	JV
BY		

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER	13A012	
CONTRACT NO.		



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Change Order #115
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STRUCTURE NOTES - DRAINAGE

NT 13
SHEET
220
OF
1797
SHEETS

STRUCTURE NOTES - DRAINAGE

NOTE: THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.		GENERAL NOTES:														
CODE	LOCATION \ UNIT OF MEASURE >	DITCH EXCAVATION INCL. HAUL	CONCRETE INLET	GRATE INLET TYPE 2	CEMENT CONC. GUTTER	STREAMBED COBBLES	QUARRY SPALLS	UNDERDRAIN PIPE 6 IN. DIAM.	DRAIN PIPE 6 IN. DIAM.	DRAIN PIPE 12 IN. DIAM.	SCHEDULE A CULV. PIPE 18 IN. DIAM.	DEBRIS CAGE	TRIUM GRATE	SEE GENERAL NOTES		
		C.Y.	EACH	EACH	L.F.	TON	TON	L.F.	L.F.	L.F.	L.F.	EACH	EACH			
DR02-16	WDXV 22+50.00 (3.28'RT) - WDXV 22+10.00 (3.08'RT)													1, 3, 7, 8	1. SEE PIPE ZONE BEDDING AND BACKFILL - STANDARD PLAN B-55.20-00 FOR STORM SEWER, CULVERT, AND DRAIN PIPES. SEE PV SHEETS FOR ROADWAY RESTORATION ASSOCIATED WITH TRENCHING ACTIVITIES. 2. SEE CONCRETE INLET - STANDARD PLAN B-25.60-00. SEE SHEET DD11 FOR CONCRETE INLET ELEVATIONS. 3. SEE CATCH BASIN TYPE 1 - STANDARD PLAN B-5.20-01 4. SEE CATCH BASIN TYPE 1L - STANDARD PLAN B-5.40-01. 5. SEE CATCH BASIN TYPE 2 - STANDARD PLAN B-10.20-01. 6. SEE GRATE INLET TYPE 2 - STANDARD PLAN B-35.40-00. 7. SEE RECTANGULAR FRAME (REVERSIBLE) - STANDARD PLAN B-30.10-01. 8. SEE RECTANGULAR VANED GRATE - STANDARD PLAN B-30.30-01. 9. SEE RECTANGULAR BI-DIRECTIONAL VANED GRATE - STANDARD PLAN B-30.40-01. 10. SEE RECTANGULAR SOLID METAL COVER - STANDARD PLAN B-30.20-02. 11. SEE COMBINATION INLET - STANDARD PLAN B-25.20-01 12. SEE WELDED GRATES FOR GRATE INLET, GRATE "B" - STANDARD PLAN B-40.20-00. 13. SEE BEVELED END SECTIONS (FOR CULVERTS 30" DIAMETER OR LESS) - STANDARD PLAN B-70.20-00. 13A. SEE TYPE 2 SAFETY BARS FOR CULVERT PIPE OR PIPE ARCH (ON CROSS ROAD) - STANDARD PLAN B-75.60-00.	
DR02-17	WDXV 22+89.87 (2.99'RT STR, 3.89'RT GRT) - SUPV 15+13.17 (6.00'LT STR, 6.90'LT GRT)													1, 5, 7, 8		
DR02-18	WDXV 22+89.87 (2.99'RT STR, 3.89'LT GRT) - WDXV 23+27.72 (1.38'RT)													1, 25		
DR02-19	MLHV 14+14.12 (20.59'LT) - MLHV 13+85.97 (16.76'LT)													1, 3, 7, 9		
DR02-20	MLHV 14+33.81 (22.08'LT) - MLHV 14+14.12 (20.59'LT)													1, 3, 7, 8		
DR02-21	MLHV 14+66.38 (22.08'LT) - MLHV 14+33.81 (22.08'LT)													1, 3, 7, 8		
DR02-22	MLHV 16+15.99 (22.08'LT) - WDXV 20+33.78 (2.18'RT STR, 3.08'RT GRT)													1, 4, 7, 8, 30		
DR02-23	MLV 568+51.57 (15.98'RT STR, 16.88'RT GRT) - WDXV 22+89.87 (2.99'RT STR, 3.89'LT GRT)													1, 5, 7, 8		
DR02-24	MLV 568+51.57 (15.98'RT STR, 16.88'RT GRT) - MLV 568+90.68 (18.27'RT)													1, 25		
DR02-25	MRV 564+18.48 (40.50'LT) - MRV 564+34.15 (40.44'LT STR)													1, 13		
DR02-26	MRV 564+34.15 (40.44'LT STR) - DXEV 27+24.00 (17.23'LT STR, 18.13'LT GRT)													1, 5, 7, 10		
DR02-27	MRV 566+50.89 (40.47'LT) - DXEV 29+43.39 (16.78'LT)			1										1, 6, 12		
DR02-28	MRV 568+60.00 (45.61'LT) - MRV 566+50.89 (40.47'LT)			1										1, 6, 12		
DR02-29	DXEV 26+93.67 (17.09'LT STR, 17.99'LT GRT) - DXEV 27+24.00 (17.23'LT STR, 18.13'LT GRT)													1, 5, 7, 8		
DR02-30	DXEV 27+24.00 (17.23'LT STR, 18.13'LT GRT) - DXEV 28+81.79 (17.16'LT STR, 18.06'LT GRT)													1, 5, 7, 8		
DR02-31	DXEV 28+81.79 (17.16'LT STR, 18.06'LT GRT) - DXEV 28+91.64 (12.59' RT)													1, 5, 7, 8, 26		
DR02-32	DXEV 29+43.39 (16.78'LT) - DXEV 28+81.79 (17.16'LT STR, 18.06'LT GRT)													1, 5, 7, 8		
DR02-33	DXEV 29+91.00 (17.25'LT) - DXEV 29+43.39 (16.78'LT)													1, 3, 7, 8		
DR02-34	DXEV 28+91.64 (12.59'RT)													29		
DR02-35	DXEV 31+41.65 (4.83'RT)													29		
DR02-36	RAMV 19+19.70 (23.00'LT) - RAMV 19+18.56 (11.23' RT)													13		
DR02-37	SUPV 11+36.48 (36.33'LT STR, 37.23'LT GRT) - SUPV 12+43.36 (50.54'LT STR, 51.72'LT GRT)											0		1, 5, 7, 10		
DR02-38	SUPV 12+43.36 (50.54'LT STR, 51.72'LT GRT) - SUPV 14+37.09 (38.16'LT STR, 36.17'LT GRT)													1, 5, 7, 10		
DR02-39	RAMV 16+19.13 (31.85'RT) - RAMV 16+18.02 (8)											0		1, 5, 13, 33, 49		
DR02-40	SUPV 14+37.09 (38.16'LT STR, 36.17'LT GRT) - WPXV 17+04.71 (58.67' LT)													1, 5, 7, 8, 13, 13a		
SHEET TOTAL				2			0				0	0				

DESIGNED BY	R. NAIDU	09/23/13
ENTERED BY	R. NAIDU	12/09/13
CHECKED BY	J. COOP	02/12/14
PROJ. ENGR.	D. EDWARDS	
REGION ADM.	J. MEREDITH	
DATE	12/01/15	DATE

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER	13A012	
CONTRACT NO.		

REVISION	BY
1 CO#115 - DELETE FACILITY M	JV



Contract 8625
Change Order #115
Page 30 of 72

STRUCTURE NOTES - DRAINAGE

NT 16
SHEET
223
OF
1797
SHEETS

STRUCTURE NOTES - DRAINAGE

NOTE: THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.		CL. V REINF. CONC. STORM SEWER PIPE 12 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 8 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 15 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	CASING PIPE, 24 IN. DIAM.	COS MAINT HOLE, TYPE 204B	COS CATCH BASIN, TYPE 240A	COS CATCH BASIN, TYPE 242B	SEWER CLEANOUT	DUCTILE IRON SEWER PIPE 12 IN. DIAM.	SEE GENERAL NOTES	GENERAL NOTES:	
CODE	LOCATION & UNIT OF MEASURE	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EACH	EACH	EACH	EACH	L.F.			
DR02-16	WDXV 22+50.00 (3.28'RT) - WDXV 22+10.00 (3.08'RT)			40										1, 3, 7, 8	<p>27. CATCH BASIN AND GRATE SHALL BE INSTALLED AT THE STATION AND OFFSETS SHOWN ON THESE PLANS. THIS WILL CAUSE THE EXISTING PIPE ENTERING AND LEAVING THE CATCH BASIN TO BE OFFSET FROM THE CENTER OF THE STRUCTURE. THE KNOCKOUT PROVIDED FOR THIS CATCH BASIN SHALL ACCOMMODATE THIS SITUATION. CONTRACTOR SHALL SUBMIT DETAILED WORKING DRAWINGS.</p> <p>28. ROTATE EXISTING MANHOLE OR TYPE 2 CATCH BASIN TOP SLAB AS NECESSARY TO POSITION FRAME AND GRATE ADJACENT TO THE BARRIER. REPLACE TOP SLAB, ADJUSTMENT SECTIONS, AND FRAME AND GRATE AS NECESSARY TO PROVIDE A RECTANGULAR FRAME (REVERSIBLE) AND RECTANGULAR VANED GRATE IN ACCORDANCE WITH STANDARD PLANS B-30.10-01 AND B-30.30-01. CONTRACTOR SHALL SUBMIT DETAILED WORKING DRAWINGS.</p> <p>29. ADJUST STRUCTURE TO GRADE. SEE SHEET DD11 FOR STRUCTURE ADJUSTMENT ELEVATIONS. FOR COS STRUCTURES, SEE SPECIAL PROVISION "ADJUSTMENT OF NEW AND EXISTING COS SEWER STRUCTURES TO FINISH GRADE".</p> <p>30. CONNECT NEW PIPE(S) TO CATCH BASIN.</p> <p>31. AT THE UPSTREAM END OF THE UNDERDRAIN SYSTEM, INSTALL FITTINGS AS NECESSARY TO POSITION THE CLEANOUT OUTSIDE THE BARRIER FOOTPRINT AND WITHIN THE PAVEMENT AREA.</p> <p>32. CONNECT DRAIN PIPE TO THE CABLE VAULT VIA THE KNOCKOUT IN THE VAULT BOTTOM.</p> <p>33. FOR GATE VALVE REQUIREMENTS, SEE SPECIAL PROVISION "VALVES FOR WATER MAINS".</p> <p>34. CONTRACTOR SHALL FURNISH AND INSTALL ALL FITTINGS NECESSARY TO CONSTRUCT THE UNDERDRAIN SYSTEM. A SWEEPING/LONG RADIUS 90 DEGREE BEND OR A 45 DEGREE BEND IN COMBINATION WITH A WYE MAY BE SUBSTITUTED WHERE TWO 45 DEGREE BENDS ARE SHOWN ON THESE PLANS.</p>	
DR02-17	WDXV 22+89.87 (2.99'RT STR, 3.89'RT GRT) - SUPV 15+13.17 (6.00'LT STR, 6.90'LT GRT)					75								1, 5, 7, 8		
DR02-18	WDXV 22+89.87 (2.99'RT STR, 3.89'LT GRT) - WDXV 23+27.72 (1.38'RT)												38	1, 25		
DR02-19	MLHV 14+14.12 (20.59'LT) - MLHV 13+85.97 (16.76'LT)			28										1, 3, 7, 9		
DR02-20	MLHV 14+33.81 (22.08'LT) - MLHV 14+14.12 (20.59'LT)			20										1, 3, 7, 8		
DR02-21	MLHV 14+66.38 (22.08'LT) - MLHV 14+33.81 (22.08'LT)			32										1, 3, 7, 8		
DR02-22	MLHV 16+15.99 (22.08'LT) - WDXV 20+33.78 (2.18'RT STR, 3.08'RT GRT)			20										1, 4, 7, 8, 30		
DR02-23	MLV 568+51.57 (15.98'RT STR, 16.88'RT GRT) - WDXV 22+89.87 (2.99'RT STR, 3.89'LT GRT)					52								1, 5, 7, 8		
DR02-24	MLV 568+51.57 (15.98'RT STR, 16.88'RT GRT) - MLV 568+90.68 (18.27'RT)												38	1, 25		
DR02-25	MRV 564+18.48 (40.50'LT) - MRV 564+34.15 (40.44'LT STR)			15										1, 13		
DR02-26	MRV 564+34.15 (40.44'LT STR) - DXEV 27+24.00 (17.23'LT STR, 18.13'LT GRT)					59								1, 5, 7, 10		
DR02-27	MRV 566+50.89 (40.47'LT) - DXEV 29+43.39 (16.78'LT)			59										1, 6, 12		
DR02-28	MRV 568+60.00 (45.61'LT) - MRV 566+50.89 (40.47'LT)			208										1, 6, 12		
DR02-29	DXEV 26+93.67 (17.09'LT STR, 17.99'LT GRT) - DXEV 27+24.00 (17.23'LT STR, 18.13'LT GRT)					30								1, 5, 7, 8		
DR02-30	DXEV 27+24.00 (17.23'LT STR, 18.13'LT GRT) - DXEV 28+81.79 (17.16'LT STR, 18.06'LT GRT)													1, 5, 7, 8		
DR02-31	DXEV 28+81.79 (17.16'LT STR, 18.06'LT GRT) - DXEV 28+91.64 (12.59' RT)													1, 5, 7, 8, 26		
DR02-32	DXEV 29+43.39 (16.78'LT) - DXEV 28+81.79 (17.16'LT STR, 18.06'LT GRT)			61										1, 5, 7, 8		
DR02-33	DXEV 29+91.00 (17.25'LT) - DXEV 29+43.39 (16.78'LT)			47										1, 3, 7, 8		
DR02-34	DXEV 28+91.64 (12.59'RT)													29		
DR02-35	DXEV 31+41.65 (4.83'RT)													29		
DR02-36	RAMV 19+19.78 (29.88'LT) - RAMV 19+18.58 (14.23'RT)													13		
DR02-37	SUPV 11+36.48 (36.33'LT STR, 37.23'LT GRT) - SUPV 12+43.36 (50.54'LT STR, 51.72'LT GRT)			105										1, 5, 7, 10		
DR02-38	SUPV 12+43.36 (50.54'LT STR, 51.72'LT GRT) - SUPV 14+37.09 (38.16'LT STR, 36.17'LT GRT)													1, 5, 7, 10		
DR02-39	RAMV 16+19.13 (31.85'RT) - RAMV 16+18.02 (0)			0										1, 5, 13, 33, 49		
DR02-40	SUPV 14+37.09 (38.16'LT STR, 36.17'LT GRT) - WPXY 17+04.71 (58.67'LT)													1, 5, 7, 8, 13, 13a		
SHEET TOTAL			0	635		89	188	127					76			

DESIGNED BY	R. NAIDU	09/23/13
ENTERED BY	R. NAIDU	12/09/13
CHECKED BY	J.COOP	02/12/14
PROJ. ENGR.	D. EDWARDS	
REGION ADM.	J. MEREDITH	
DATE	12/01/15	

CO#115 - DELETE FACILITY M REVISION

JV BY

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER		
13A012		
CONTRACT NO.		



Contract 8625 Change Order #115 Page 32 of 72	NT 18 SHEET 225 OF 1797 SHEETS
STRUCTURE NOTES - DRAINAGE	

STRUCTURE NOTES - DRAINAGE

NOTE: THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.			GENERAL NOTES:														
CODE	LOCATION	UNIT OF MEASURE	COS SEWER CLEANOUT, 8 IN EACH	GATE VALVE 8 IN. EACH	GATE VALVE 12 IN. EACH	PREFABRICATED DRAINAGE MAT S.Y.	GEOSYNTHETIC CLAY LINER S.Y.	CONCRETE LINER S.Y.	STRUCTURE EXCAVATION CLASS B INCL. HAUL** C.Y.	SHORING OR EXTRA EXCAVATION CLASS B** S.F.	GRAVEL BACKFILL FOR DRAIN C.Y.	COS ADJUST EXISTING INLET EACH	CONNECTION TO DRAINAGE STRUCTURE EACH	ADJUST MANHOLE ** EACH	ADJUST CATCH BASIN EACH	SEE GENERAL NOTES	
DR02-16	WDXV 22+50.00 (3.28'RT) - WDXV 22+10.00 (3.08'RT)								20							1, 3, 7, 8	35. UNDERDRAIN TO BE LOCATED IN RIGHT-OF-WAY.
DR02-17	WDXV 22+89.87 (2.99'RT STR, 3.89'RT GRT) - SUPV 15+13.17 (6.00'LT STR, 6.90'LT GRT)								60							1, 5, 7, 8	36. UNLESS OTHERWISE SPECIFIED, DRAIN PIPE SHALL BE 6" DIAMETER INSTALLED AT 1% MINIMUM SLOPE WITH 1' MINIMUM COVER. SEE SHEET DD11 FOR DRAIN PIPE ELEVATIONS AT KEY LOCATIONS. CONTRACTOR SHALL FURNISH AND INSTALL ALL FITTINGS NECESSARY TO CONSTRUCT THE DRAIN PIPE SYSTEM. A SWEEPING/LONG RADIUS 90 DEGREE BEND OR A 45 DEGREE BEND IN COMBINATION WITH A WYE MAY BE SUBSTITUTED WHERE TWO 45 DEGREE BENDS ARE SHOWN ON THESE PLANS. SEE SHEET DD11 FOR STRUCTURE STATION AND OFFSET LOCATION INFORMATION.
DR02-18	WDXV 22+89.87 (2.99'RT STR, 3.89'LT GRT) - WDXV 23+27.72 (1.38'RT)								20							1, 25	
DR02-19	MLHV 14+14.12 (20.59'LT) - MLHV 13+85.97 (16.76'LT)								30	200						1, 3, 7, 9	
DR02-20	MLHV 14+33.81 (22.08'LT) - MLHV 14+14.12 (20.59'LT)								20	130						1, 3, 7, 8	
DR02-21	MLHV 14+66.38 (22.08'LT) - MLHV 14+33.81 (22.08'LT)								20	180						1, 3, 7, 8	
DR02-22	MLHV 16+15.99 (22.08'LT) - WDXV 20+33.78 (2.18'RT STR, 3.08'RT GRT)								10							1, 4, 7, 8, 30	
DR02-23	MLV 568+51.57 (15.98'RT STR, 16.88'RT GRT) - WDXV 22+89.87 (2.99'RT STR, 3.89'LT GRT)								40							1, 5, 7, 8	
DR02-24	MLV 568+51.57 (15.98'RT STR, 16.88'RT GRT) - MLV 568+90.68 (18.27'RT)								20							1, 25	37. CONTRACTOR'S SCHEDULE TO REFLECT SEQUENCING OF PERMANENT STORM DRAIN SYSTEM IN CONJUNCTION WITH TEMPORARY OFF-RAMPS AND TEMPORARY OFF-RAMP DRAINAGE SYSTEMS.
DR02-25	MRV 564+18.48 (40.50'LT) - MRV 564+34.15 (40.44'LT STR)								10							1, 13	
DR02-26	MRV 564+34.15 (40.44'LT STR) - DXEV 27+24.00 (17.23'LT STR, 18.13'LT GRT)								60	440						1, 5, 7, 10	38. IF CONSTRUCTION SEQUENCING OF THE TEMPORARY WPXT OFF-RAMP INCLUDES INSTALLATION OVER PERMANENT STORM SEWER PIPE, USE OF CL. V REINF. CONC. STORM SEWER PIPE IS REQUIRED.
DR02-27	MRV 566+50.89 (40.47'LT) - DXEV 29+43.39 (16.78'LT)								90	660						1, 6, 12	
DR02-28	MRV 568+60.00 (45.61'LT) - MRV 566+50.89 (40.47'LT)								270	2110						1, 6, 12	
DR02-29	DXEV 26+93.67 (17.09'LT STR, 17.99'LT GRT) - DXEV 27+24.00 (17.23'LT STR, 18.13'LT GRT)								40	260						1, 5, 7, 8	
DR02-30	DXEV 27+24.00 (17.23'LT STR, 18.13'LT GRT) - DXEV 28+81.79 (17.16'LT STR, 18.06'LT GRT)								180	1320						1, 5, 7, 8	38A. SEE SPECIAL PROVISION "STORM SEWERS" FOR ALLOWABLE PIPE MATERIALS.
DR02-31	DXEV 28+81.79 (17.16'LT STR, 18.06'LT GRT) - DXEV 28+91.64 (12.59'RT)								50	350			1			1, 5, 7, 8, 26	38B. SEE SHEET DD11 FOR DRAIN PIPE ELEVATIONS AT KEY LOCATIONS.
DR02-32	DXEV 29+43.39 (16.78'LT) - DXEV 28+81.79 (17.16'LT STR, 18.06'LT GRT)								60	460						1, 5, 7, 8	38C. CASING SHALL HAVE END SEALS AND THE ANNULAR SPACE SHALL BE FILLED WITH BLOWN SAND. SEE SPECIAL PROVISION "STORM SEWERS".
DR02-33	DXEV 29+91.00 (17.25'LT) - DXEV 29+43.39 (16.78'LT)								30	260						1, 3, 7, 8	
DR02-34	DXEV 28+91.64 (12.59'RT)													1		29	
DR02-35	DXEV 31+41.65 (4.83'RT)														1	29	39. SEE THE COS STANDARD PLANS AND SPECIAL PROVISION "COS STORM DRAINS AND SANITARY SEWERS", FOR PIPE, TELEVISION INSPECTION AND "COS SFTY TRCH EXCAV MIN BID=\$0.80".
DR02-36	RAMV 19+19.70 (29.00'LT) - RAMV 19+19.50 (14.23'RT)															13	
DR02-37	SUPV 11+36.48 (36.33'LT STR, 37.23'LT GRT) - SUPV 12+43.36 (50.54'LT STR, 51.72'LT GRT)								80	610						1, 5, 7, 10	
DR02-38	SUPV 12+43.36 (50.54'LT STR, 51.72'LT GRT) - SUPV 14+37.09 (38.16'LT STR, 36.17'LT GRT)								200	1010						1, 5, 7, 10	40. SEE PIPE BEDDING SEWER/STORM DRAIN - COS STANDARD PLAN 285. SEE SPECIAL PROVISION "COS STORM DRAINS AND SANITARY SEWERS".
DR02-39	RAMV 16+19.13 (31.05'RT) - RAMV 16+19.02 (0')								0	0						1, 5, 13, 33, 49	
DR02-40	SUPV 14+37.09 (38.16'LT STR, 36.17'LT GRT) - WPXV 17+04.71 (58.67'LT)								180	850						1, 5, 7, 8, 13, 13a	
SHEET TOTAL									1490	8840			1	1	1		

DESIGNED BY	R. NAIDU	09/23/13		REGION NO.	STATE	FED. AID PROJ. NO.		 Washington State Department of Transportation	Contract 8625 Change Order #115 Page 33 of 72		
ENTERED BY	R. NAIDU	12/09/13		10	WASH					NT 19	
CHECKED BY	J.COOP	02/12/14		JOB NUMBER						SHEET	
PROJ. ENGR.	D. EDWARDS			13A012						226	
REGION ADM.	J. MEREDITH			CONTRACT NO.				OF			
		DATE	DATE	REVISION				1797			
				JV BY				SHEETS			

12/01/15 ▲ CO#115 - DELETE FACILITY M REVISION

STRUCTURE NOTES - DRAINAGE

NOTE: THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE. THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.			CL. V REINF. CONC. STORM SEWER PIPE 12 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 8 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 15 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	CASING PIPE, 24 IN. DIAM.	COS MAINT HOLE, TYPE 204B EACH	COS CATCH BASIN, TYPE 240A EACH	COS CATCH BASIN, TYPE 242B EACH	SEWER CLEANOUT EACH	DUCTILE IRON SEWER PIPE 12 IN. DIAM. L.F.	SEE GENERAL NOTES	GENERAL NOTES:
DR02-41	WPXV 17+04.70 (58.90' LT) - WPXV 17+35.52 (57.95' LT)															<p>27. CATCH BASIN AND GRATE SHALL BE INSTALLED AT THE STATION AND OFFSETS SHOWN ON THESE PLANS. THIS WILL CAUSE THE EXISTING PIPE ENTERING AND LEAVING THE CATCH BASIN TO BE OFFSET FROM THE CENTER OF THE STRUCTURE. THE KNOCKOUT PROVIDED FOR THIS CATCH BASIN SHALL ACCOMMODATE THIS SITUATION. CONTRACTOR SHALL SUBMIT DETAILED WORKING DRAWINGS.</p> <p>28. ROTATE EXISTING MANHOLE OR TYPE 2 CATCH BASIN TOP SLAB AS NECESSARY TO POSITION FRAME AND GRATE ADJACENT TO THE BARRIER. REPLACE TOP SLAB, ADJUSTMENT SECTIONS, AND FRAME AND GRATE AS NECESSARY TO PROVIDE A RECTANGULAR FRAME (REVERSIBLE) AND RECTANGULAR VANED GRATE IN ACCORDANCE WITH STANDARD PLANS B-30.10-01 AND B-30.30-01. CONTRACTOR SHALL SUBMIT DETAILED WORKING DRAWINGS.</p> <p>29. ADJUST STRUCTURE TO GRADE. SEE SHEET DD11 FOR STRUCTURE ADJUSTMENT ELEVATIONS. FOR COS STRUCTURES, SEE SPECIAL PROVISION "ADJUSTMENT OF NEW AND EXISTING COS SEWER STRUCTURES TO FINISH GRADE".</p> <p>30. CONNECT NEW PIPE(S) TO CATCH BASIN.</p> <p>31. AT THE UPSTREAM END OF THE UNDERDRAIN SYSTEM, INSTALL FITTINGS AS NECESSARY TO POSITION THE CLEANOUT OUTSIDE THE BARRIER FOOTPRINT AND WITHIN THE PAVEMENT AREA.</p> <p>32. CONNECT DRAIN PIPE TO THE CABLE VAULT VIA THE KNOCKOUT IN THE VAULT BOTTOM.</p> <p>33. FOR GATE VALVE REQUIREMENTS, SEE SPECIAL PROVISION "VALVES FOR WATER MAINS".</p> <p>34. CONTRACTOR SHALL FURNISH AND INSTALL ALL FITTINGS NECESSARY TO CONSTRUCT THE UNDERDRAIN SYSTEM. A SWEEPING/LONG RADIUS 90 DEGREE BEND OR A 45 DEGREE BEND IN COMBINATION WITH A WYE MAY BE SUBSTITUTED WHERE TWO 45 DEGREE BENDS ARE SHOWN ON THESE PLANS.</p>
DD01-01	WDXV 11+63.04 (31.11' LT) - WDXV 13+10.16 (29.59' LT)												2		1, 16, 18, 34, 36	
DD01-02	WDXV 13+13.27 (37.14' LT) - WDXV 14+42.00 (32.08' LT)												2		1, 16, 18, 34, 36	
DD01-03	MLV 557+17.87 (27.16' LT) - MLHV 11+42.05 (16.53' LT)												2		1, 16, 17, 34, 36	
DD01-04	EDXV 12+96.24 (15.90' RT) - EDXV 14+89.04 (16.89' RT)												2		1, 16, 17, 34, 35, 36	
DD02-01	WPXV 15+24.20 (36.74' LT)												3		1, 16, 19, 21, 32, 34, 36	
DD02-02	WDXV 14+47.29 (33.72' LT) - WDXV 16+91.41 (32.08' LT)												3		1, 16, 20, 21, 31, 34, 36	
DD02-02A	WDXV 16+90.60 (50.23' LT) - WDXV 20+27.09 (37.14' LT)												3		1, 16, 18, 21, 34, 36	
DD02-03	WDXV 20+30.62 (31.19' LT) - WDXV 21+44.68 (40.71' LT)												2		1, 16, 18, 34, 36	
DD02-04	WDXV 14+65.62 (0.75' RT) - MLHV 12+65.00 (10.18' LT)												3		1, 16, 20, 21, 34, 36	
DD02-05	MLHV 13+36.42 (14.68' LT) - MLHV 16+13.74 (25.61' LT)												3		1, 16, 17, 34, 36	
DD02-06	MLHV 16+15.99 (22.08' LT) - MLHV 17+35.65 (25.37' LT)												2		1, 16, 17, 34, 36	
DD02-07	MLHV 11+89.21 (6.67' RT) - MLV 562+51.04 (14.24' LT)												3		1, 16, 20, 34, 36	
DD02-08	MLV 562+19.79 (18.15' LT) - MLV 564+13.89 (21.53' LT)												3		1, 16, 17, 34, 36	
DD02-09	RAMV 18+08.76 (0.16' LT)												0		1, 7, 10, 16, 33, 36, 38B	
DD02-10	RAMV 18+20.55 (2.04' LT)												0		1, 16, 36, 38B	
DD02-10	RAMV 18+37.11 (7.49' LT) TO RAMV 16+60.00 (70.91' LT)												0			
SW02-01	FACM 10+00 (0') TO FACM 10+68.17 (0')														16, 34	
SW02-02	RAMV 19+03 (33.0' LT) - RAMV 18+00 (33.0' LT)															
SW02-03	RAMV 19+77 (49.04' LT) - RAMV 16+42.62 (36.1' RT)															
TDR01-1	WPXT 14+38.96 (22.08' LT) TO WDXT 19+95.28 (25.66' LT)	70														1, 4, 7, 8
TDR01-2	WPXT 14+59.72 (22.08' LT) TO WPXT 14+38.96 (22.08' LT)	21														1, 3, 7, 9
TDR01-3	WPXT 15+06.36 (22.08' LT) TO WPXT 14+59.72 (22.08' LT)	46														1, 3, 7, 8
TDR01-4	WDXT 18+42.44 (29.08' LT) TO WDXT 19+09.85 (29.08' LT)	67														1, 3, 7, 8
TDR01-5	WDXT 19+09.85 (29.08' LT) TO WDXT 19+42.44 (29.08)	32														1, 3, 7, 8
TDR01-6	WDXT 19+42.44 (29.08) TO WDXT 19+95.28 (25.66' LT)	53														1, 3, 7, 9
TDR01-7	WDXT 19+95.28 (25.66' LT) TO WDXT 20+02.04 (28.31 RT)	55														1, 4, 7, 8, 26
SHEET TOTAL			344													
PROJECT TOTAL			344	543	2846	403	188	438	15	1	2	2	33	76		

DESIGNED BY	R. NAIDU	09/23/13
ENTERED BY	R. NAIDU	12/09/13
CHECKED BY	J.COOP	02/12/14
PROJ. ENGR.	D. EDWARDS	
REGION ADM.	J. MEREDITH	
DATE	12/01/15	

REVISION	1	CO#115- DELETE FACILITY M
JV BY		

REGION NO.	10
STATE	WASH
FED. AID PROJ. NO.	
JOB NUMBER	13A012
CONTRACT NO.	



<p>Contract 8625 Change Order #115 Page 37 of 72</p>
<p>STRUCTURE NOTES - DRAINAGE</p>

NT 23
SHEET 230 OF 1797 SHEETS

STRUCTURE NOTES - DRAINAGE

NOTE:
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE.

THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

GENERAL NOTES:

CODE	LOCATION & UNIT OF MEASURE	COS SEWER CLEANOUT, 8 IN	GATE VALVE 8 IN.	GATE VALVE 12 IN.	PREFABRICATED DRAINAGE MAT *	GEOSYNTHETIC CLAY LINER	CONCRETE LINER	STRUCTURE EXCAVATION CLASS B INCL. HAUL**	SHORING OR EXTRA EXCAVATION CLASS B**	GRAVEL BACKFILL FOR DRAIN	COS ADJUST EXISTING INLET	CONNECTION TO DRAINAGE STRUCTURE	ADJUST MANHOLE **	ADJUST CATCH BASIN	SEE GENERAL NOTES	
DR02-41	WPXV 17+04.70 (58.40' LT) - WPXV 17+35.52 (57.95' LT)															35. UNDERDRAIN TO BE LOCATED IN RIGHT-OF-WAY.
DD01-01	WDXV 11+63.04 (31.11' LT) - WDXV 13+10.16 (29.59' LT)									60					1,16,18,34,36	36. UNLESS OTHERWISE SPECIFIED, DRAIN PIPE SHALL BE 6" DIAMETER INSTALLED AT 1% MINIMUM SLOPE WITH 1' MINIMUM COVER. SEE SHEET DD11 FOR DRAIN PIPE ELEVATIONS AT KEY LOCATIONS. CONTRACTOR SHALL FURNISH AND INSTALL ALL FITTINGS NECESSARY TO CONSTRUCT THE DRAIN PIPE SYSTEM. A SWEEPING/LONG RADIUS 90 DEGREE BEND OR A 45 DEGREE BEND IN COMBINATION WITH A WYE MAY BE SUBSTITUTED WHERE TWO 45 DEGREE BENDS ARE SHOWN ON THESE PLANS. SEE SHEET DD11 FOR STRUCTURE STATION AND OFFSET LOCATION INFORMATION.
DD01-02	WDXV 13+13.27 (37.14' LT) - WDXV 14+42.00 (32.08' LT)									55					1,16,17,34,36	
DD01-03	MLV 557+17.87 (27.16' LT) - MLHV 11+42.05 (16.53' LT)									52					1,16,17,34,36	
DD01-04	EDXV 12+96.24 (15.90' RT) - EDXV 14+89.04 (16.89' RT)									32					1,16,17,34,35,36	
DD02-01	WPXV 15+24.20 (36.74' LT)									43					1,16,19,21,32,34,36	37. CONTRACTOR'S SCHEDULE TO REFLECT SEQUENCING OF PERMANENT STORM DRAIN SYSTEM IN CONJUNCTION WITH TEMPORARY OFF-RAMPS AND TEMPORARY OFF-RAMP DRAINAGE SYSTEMS.
DD02-02	WDXV 17+04.64 (56.23' LT)									87					1,16,20,21,31,34,36	
DD02-02A	WDXV 14+47.29 (33.72' LT) - WDXV 16+91.41 (32.08' LT)									106					1,16,18,21,34,36	
DD02-03	WDXV 16+90.60 (50.23' LT) - WDXV 20+27.09 (37.14' LT)									46					1,16,18,34,36	
DD02-04	WDXV 20+30.62 (31.19' LT) - WDXV 21+44.68 (40.71' LT)									112					1,16,20,21,34,36	
DD02-05	WDXV 14+65.62 (0.75' RT) - MLHV 12+65.00 (10.18' LT)									52					1,16,17,34,36	
DD02-06	MLHV 13+36.42 (14.68' LT) - MLHV 16+13.74 (25.61' LT)									23					1,16,17,34,36	
DD02-07	MLHV 16+15.99 (22.08' LT) - MLHV 17+35.65 (25.37' LT)									42					1,16,20,34,36	
DD02-08	MLV 562+19.79 (18.15' LT) - MLV 564+13.89 (21.53' LT)									11					1,16,17,34,36	
DD02-09	RAMV 18+08.76 (0.16' LT)			0											1,7,10,16,33,36,38B	
DD02-10	RAMV 18+28.55 (2.04' LT)														1,16,36,38B	
DD02-10	RAMV 18+37.41 (7.49' LT) TO RAMV 15+58.89 (79.04' LT)														1,16,36,38B	
SW02-01	FACM 10+00 (0') TO FACM 10+68.17 (0')				0		0								16,34	38A. SEE SPECIAL PROVISION "STORM SEWERS" FOR ALLOWABLE PIPE MATERIALS.
SW02-02	RAMV 10+82 (39.0' LT) - RAMV 18+80 (93.0' LT)						0									38B. SEE SHEET DD11 FOR DRAIN PIPE ELEVATIONS AT KEY LOCATIONS.
SW02-03	RAMV 18+77 (49.0' LT) - RAMV 15+42.62 (96.4' RT)															38C. CASING SHALL HAVE END SEALS AND THE ANNULAR SPACE SHALL BE FILLED WITH BLOWN SAND. SEE SPECIAL PROVISION "STORM SEWERS".
TDR01-1	WPXT 14+38.96 (22.08' LT) TO WDXT 19+95.28 (25.66' LT)							150	1090						1,4,7,8	39. SEE THE COS STANDARD PLANS AND SPECIAL PROVISION "COS STORM DRAINS AND SANITARY SEWERS", FOR PIPE, TELEVISION INSPECTION AND "COS SFTY TRCH EXCAV MIN BID=\$0.80".
TDR01-2	WPXT 14+59.72 (22.08' LT) TO WPXT 14+38.96 (22.08' LT)							40	280						1,3,7,9	
TDR01-3	WPXT 15+06.36 (22.08' LT) TO WPXT 14+59.72 (22.08' LT)							120	860						1,3,7,8	
TDR01-4	WDXT 18+42.44 (29.08' LT) TO WDXT 19+09.85 (29.08' LT)							70	520						1,3,7,8	
TDR01-5	WDXT 19+09.85 (29.08' LT) TO WDXT 19+42.44 (29.08)							60	400						1,3,7,8	
TDR01-6	WDXT 19+42.44 (29.08) TO WDXT 19+95.28 (25.66' LT)							120	900						1,3,7,9	
TDR01-7	WDXT 19+95.28 (25.66' LT) TO WDXT 20+02.04 (28.31 RT)							90	660			1			1,4,7,8,26	
SHEET TOTAL								650	4710	721						
PROJECT TOTAL		2	0	0	0	0	0	6600	40430	786	2	12	3	4		

DESIGNED BY	R. NAIDU	09/23/13
ENTERED BY	R. NAIDU	12/09/13
CHECKED BY	J.COOP	02/12/14
PROJ. ENGR.	D. EDWARDS	
REGION ADM.	J. MEREDITH	

DATE	12/01/15	REVISION	CO#115 - DELETE FACILITY M
DATE			

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER		
13A012		
CONTRACT NO.		



**Washington State
Department of Transportation**

Contract 8625
Change Order #115
Page 38 of 72

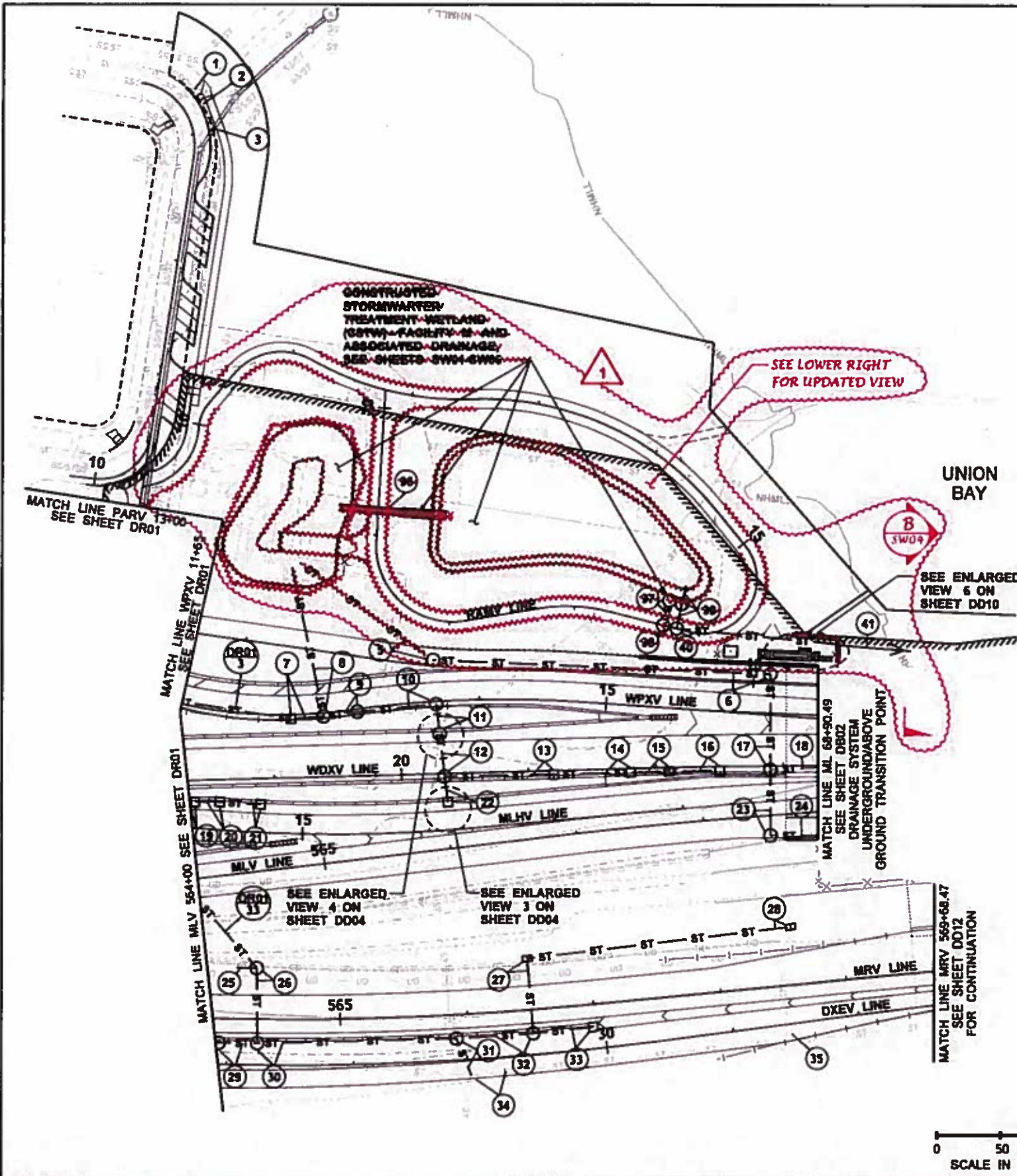
STRUCTURE NOTES - DRAINAGE

NT 24
SHEET 231
OF 1797
SHEETS

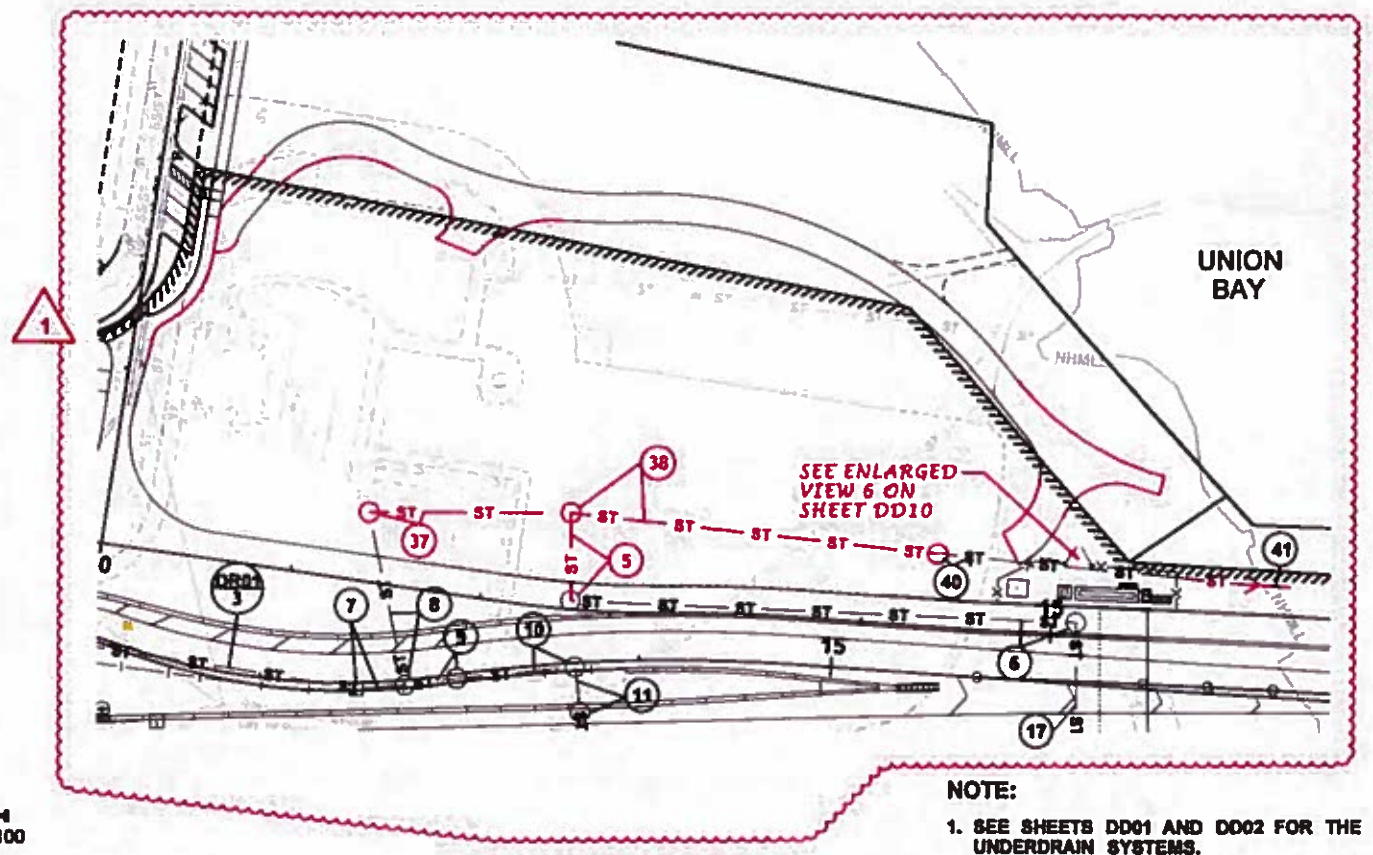
STRUCTURE NOTES - DRAINAGE

NOTE:												GENERAL NOTES:		
THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE.														
THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.														
CODE	LOCATION	UNIT OF MEASURE	COS ADJUST MAINTENANCE HOLE OR CATCH BASIN	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE	CONSTRUCTION GEOTEXTILE FOR PERMANENT EROSION CONTROL	COS SFTY TRCH EXCAV MIN BID=\$0.80	COS RELOCATE INLET	COS BEDDING, CL D, & IN PIPE	COS TELEVISION INSPECTION			SEE GENERAL NOTES		
			EACH	S.Y.	S.Y.	S.F.	EACH	L.F.	L.F.					
DR02-41	WPXV 17+09.70 (58.40' LT) - WPXV 17+35.52 (57.95' LT)				60								41. NO ACCEPTABLE ALTERNATIVES FOR PIPE MATERIAL.	
DD01-01	WDXV 11+63.04 (31.11' LT) - WDXV 13+10.16 (29.59' LT)			63								1,16,18,34,36	42. SEE COS CLEANOUT DETAIL ON SHEET DD14. CLEANOUT FRAME AND COVER, CONCRETE PAD, 12" DIA DIP, FIBER JOINT PACKING, AND MINERAL AGGREGATE PER COS STANDARD PLAN 280. SEE SPECIAL PROVISION "COS CLEANOUTS".	
DD01-02	WDXV 13+13.27 (37.14' LT) - WDXV 14+42.00 (32.08' LT)			57								1,16,18,34,36		
DD01-03	MLV 557+17.87 (27.16' LT) - MLHV 11+42.05 (16.53' LT)			172								1,16,17,34,36		
DD01-04	EDXV 12+96.24 (15.90' RT) - EDXV 14+89.04 (16.89' RT)			87								1,16,17,34,35,36		
DD02-01	WPXV 15+24.20 (36.74' LT)			288								1,16,19,21,32,34,36	43. SEE TYPE 204B MAINTENANCE HOLE - COS STANDARD PLAN 204b. SEE SPECIAL PROVISION "COS MAINTENANCE HOLES, CATCH BASINS AND INLETS".	
DD02-02	WDXV 14+47.29 (33.72' LT) - WDXV 16+91.41 (32.08' LT)			212								1,16,20,21,31,34,36	44. SEE TYPE 240 CATCH BASIN - COS STANDARD PLAN 240. SEE SPECIAL PROVISION "COS MAINTENANCE HOLES, CATCH BASINS AND INLETS".	
DD02-02A	WDXV 16+90.60 (50.23' LT) - WDXV 20+27.09 (37.14' LT)			191								1,16,18,21,34,36	45. SEE TYPE 242 CATCH BASIN - COS STANDARD PLAN 242. SEE SPECIAL PROVISION "COS MAINTENANCE HOLES, CATCH BASINS AND INLETS".	
DD02-03	WDXV 20+30.62 (31.19' LT) - WDXV 21+44.68 (40.71' LT)			48								1,16,18,34,36		
DD02-04	WDXV 14+65.62 (0.75' RT) - MLHV 12+65.00 (10.18' LT)			165								1,16,20,21,34,36	46. SEE TYPE 250 INLET - COS STANDARD PLAN 250. SEE SPECIAL PROVISION "COS MAINTENANCE HOLES, CATCH BASINS AND INLETS".	
DD02-05	MLHV 13+36.42 (14.68' LT) - MLHV 16+13.74 (25.61' LT)			118								1,16,17,34,36	47. RELOCATE EXISTING NEARBY INLET (FXV 11+85.62, 15.49' LT)	
DD02-06	MLHV 16+15.99 (22.08' LT) - MLHV 17+35.65 (25.37' LT)			53								1,16,17,34,36	48. PRESERVE EXISTING DRIVEWAY RAMPS IN ACCORDANCE WITH PV SHEETS.	
DD02-07	MLHV 11+89.21 (6.67' RT) - MLV 562+51.04 (14.24' LT)			50								1,16,20,34,36	49. SEE SHEET SW05 FOR DEBRIS CAGE DETAIL.	
DD02-08	MLV 562+19.79 (18.15' LT) - MLV 564+13.89 (21.53' LT)			85								1,16,17,34,36	* FOR ADDITIONAL PREFABRICATED DRAINAGE MAT QUANTITIES, SEE WR SHEETS AND SUMMARY OF QUANTITIES FOR RETAINING WALLS.	
DD02-09	RAMV 18+08.76 (0.16' LT)											1,7,10,16,33,36,38B	** FOR ADDITIONAL ADJUST MANHOLE QUANTITIES, SEE STRUCTURE NOTES - UTILITIES.	
DD02-10	RAMV 18+20.55 (2.04' LT)											1,16,36,38B	*** FOR ADDITIONAL STRUCTURE EXCAVATION CLASS B INCL HAUL AND SHORING OR EXTRA EXCAVATION CLASS B QUANTITIES, SEE QTDSP SHEETS.	
BB02-10	RAMV 18+37.41 (7.49' LT) TO RAMV 15+59.88 (79.04' LT)													
SW02-01	FACM 10+00 (0') TO FACM 10+68.17 (0')													
SW02-02	RAMV 18+83 (30.0' LT) - RAMV 18+89 (33.0' LT)											16,34		
SW02-03	RAMV 19+77 (43.04' LT) - RAMV 15+42.62 (36.14' RT)													
TDR01-1	WPXT 14+38.96 (22.08' LT) TO WDXT 19+95.28 (25.66' LT)											1,4,7,8		
TDR01-2	WPXT 14+59.72 (22.08' LT) TO WPXT 14+38.96 (22.08' LT)											1,3,7,9		
TDR01-3	WPXT 15+06.36 (22.08' LT) TO WPXT 14+59.72 (22.08' LT)											1,3,7,8		
TDR01-4	WDXT 18+42.44 (29.08' LT) TO WDXT 19+09.85 (29.08' LT)											1,3,7,8		
TDR01-5	WDXT 19+09.85 (29.08' LT) TO WDXT 19+42.44 (29.08)											1,3,7,8		
TDR01-6	WDXT 19+42.44 (29.08) TO WDXT 19+95.28 (25.66' LT)											1,3,7,9		
TDR01-7	WDXT 19+95.28 (25.66' LT) TO WDXT 20+02.04 (28.31 RT)											1,4,7,8,26		
SHEET TOTAL					1589	60								
PROJECT TOTAL				1	1929	60	860	1	187	187				

DESIGNED BY	R. NAIDU	09/23/13		REGION NO.	10	STATE	WASH	FED. AID PROJ. NO.				Contract 8625 Change Order #115 Page 39 of 72	NT 25
ENTERED BY	R. NAIDU	12/09/13		JOB NUMBER	13A012							SHEET	232
CHECKED BY	J.COOP	02/12/14		CONTRACT NO.								OF	1797
PROJ. ENGR.	D. EDWARDS											STRUCTURE NOTES - DRAINAGE	
REGION ADM.	J. MEREDITH		12/01/15	REVISION	1	CO#115 - DELETE FACILITY M	JV						



LEGEND			
⊖	EXISTING CATCH BASIN OR INLET	⊙	STRUCTURE NOTE CODE
⊖	EXISTING MANHOLE	⊙	STRUCTURE NOTE CODE CONTINUED
⊖	EXISTING STORM CLEANOUT	⊖	STORM CLEANOUT
⊖	EXISTING SANITARY SEWER CLEANOUT	⊖	CONCRETE INLET
⊖	EXISTING SANITARY SEWER MANHOLE	⊖	CATCH BASIN
---	EXISTING STORM SEWER	⊖	MANHOLE OR CATCH BASIN TYPE 2
- - -	ABANDON STORM SEWER	⊖	SMALL CATCH BASIN
---	EXISTING UNDERDRAIN	⊖	GRATE INLET
---	EXISTING DRAIN PIPE	⊖	OVERFLOW RISER
---	EXISTING SANITARY/STORM SEWER COMBO	⊖	COS INLET
---	EXISTING SANITARY SEWER	⊖	COS MAINTENANCE HOLE OR CATCH BASIN
---	EXISTING CULVERT	UD	UNDERDRAIN PIPE
---	EXISTING DITCH	DP	DRAIN PIPE
---	EXISTING ROADWAY EDGE	ST	STORM SEWER PIPE
		→	DITCH
		→	FENCE
		---	CONCRETE GUTTER
		---	ACCESS ROAD

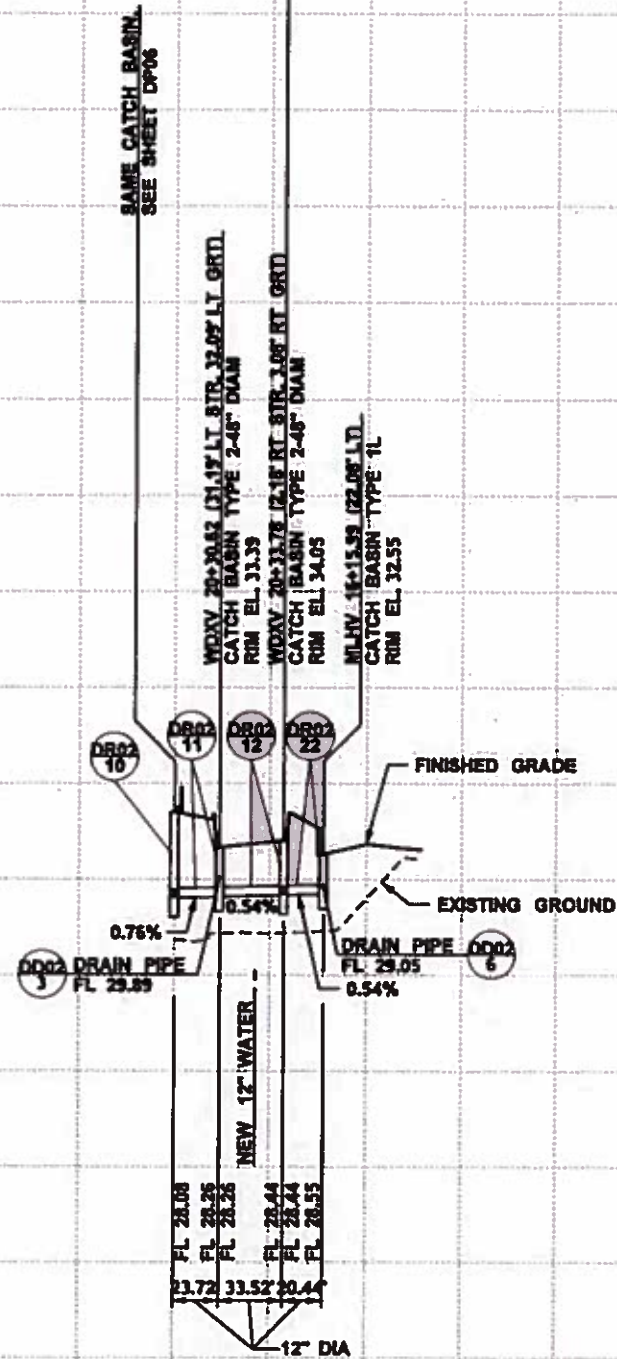
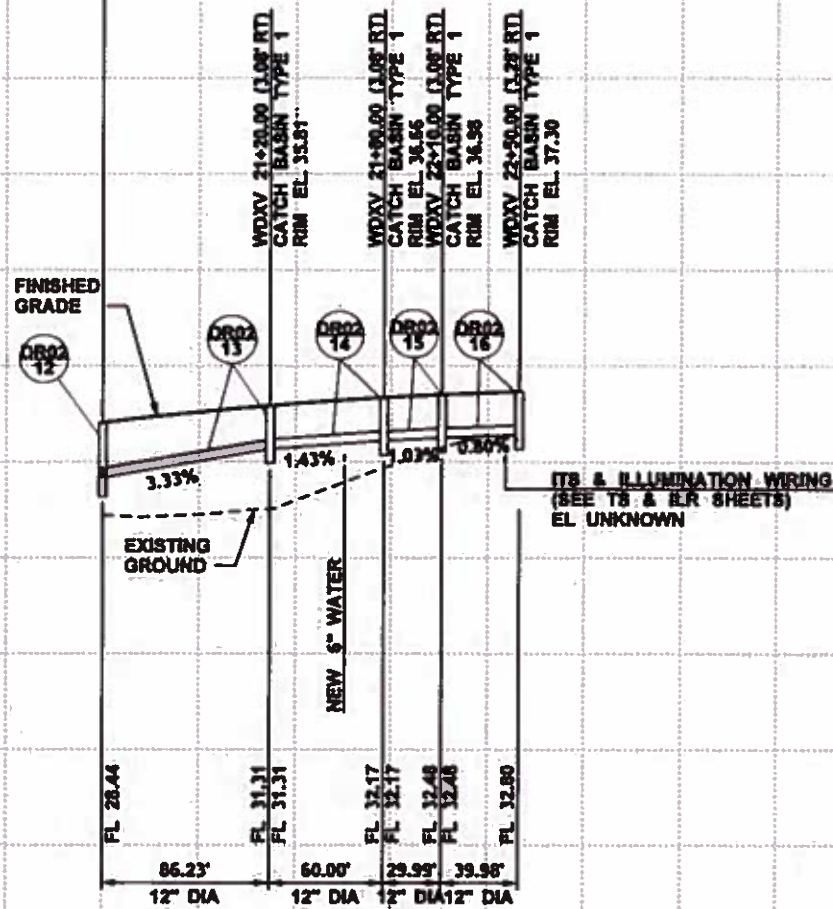
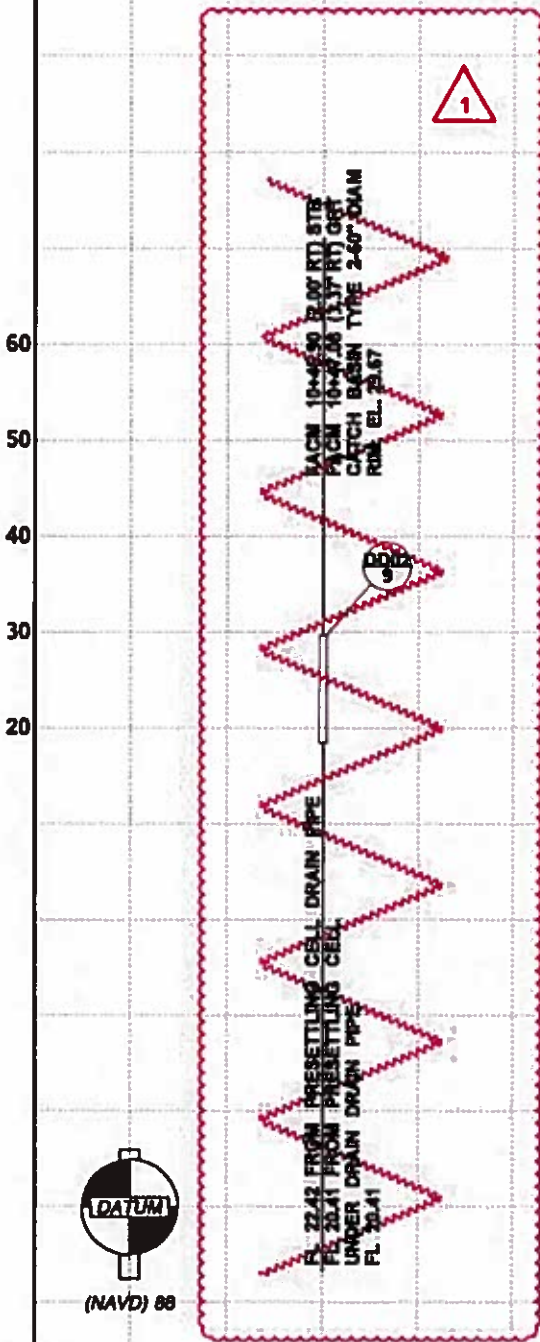


NOTE:
1. SEE SHEETS DD01 AND DD02 FOR THE UNDERDRAIN SYSTEMS.

FILE NAME	TIME 12:01:10 PM	DATE 8/2/2016	DESIGNED BY J. VANIER	ENTERED BY Y. JIANG	CHECKED BY J. COOP	PROJ. ENGR. D. EDWARDS	REGIONAL ADM. J. MEREDITH
REVISION	12/1/15	JLC	CO#115 - DELETE FACILITY M				
DATE	12/1/15	BY					
REGION NO.	10	STATE	WASH	FED.AID PROJ.NO.			
JOB NUMBER	13A012		LOCATION NO.				

			Contract 8625 Change Order #115 Page 40 of 72	PLAN REF. NO. DR02
				SHEET 236 OF 1797 SHEETS
PARSONS BRINCKERHOFF			DRAINAGE PLAN	

SAME CATCH BASIN



NOTES:

1. NEW ILLUMINATION, BRIDGE CONTROL, FIBER OPTIC AND ITS CROSSINGS ARE NOT SHOWN IN THESE PROFILES.
2. IN THE CATCH BASIN STATION AND OFFSET INFORMATION, ABBREVIATION STR DENOTES CENTER OF STRUCTURE, AND ABBREVIATION GRT DENOTES CENTER OF GRATE.

FILE NAME	12:04:36 PM
TIME	8/2/2016
DATE	schlcv
PLOTTED BY	J. VANIER
DESIGNED BY	Y. JIANG
ENTERED BY	J. COOP
CHECKED BY	D. EDWARDS
PROJ. ENGR.	J. MEREDITH
REGIONAL ADM.	

CO#115 - DELETE FACILITY M
REVISION
12/1/15
DATE
JLC
BY

DESIGN	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	CONTRACT NO.	LOCATION NO.
13A012		

HR
ENGINEERING INC.



Washington State
Department of Transportation

PARSONS BRINCKERHOFF

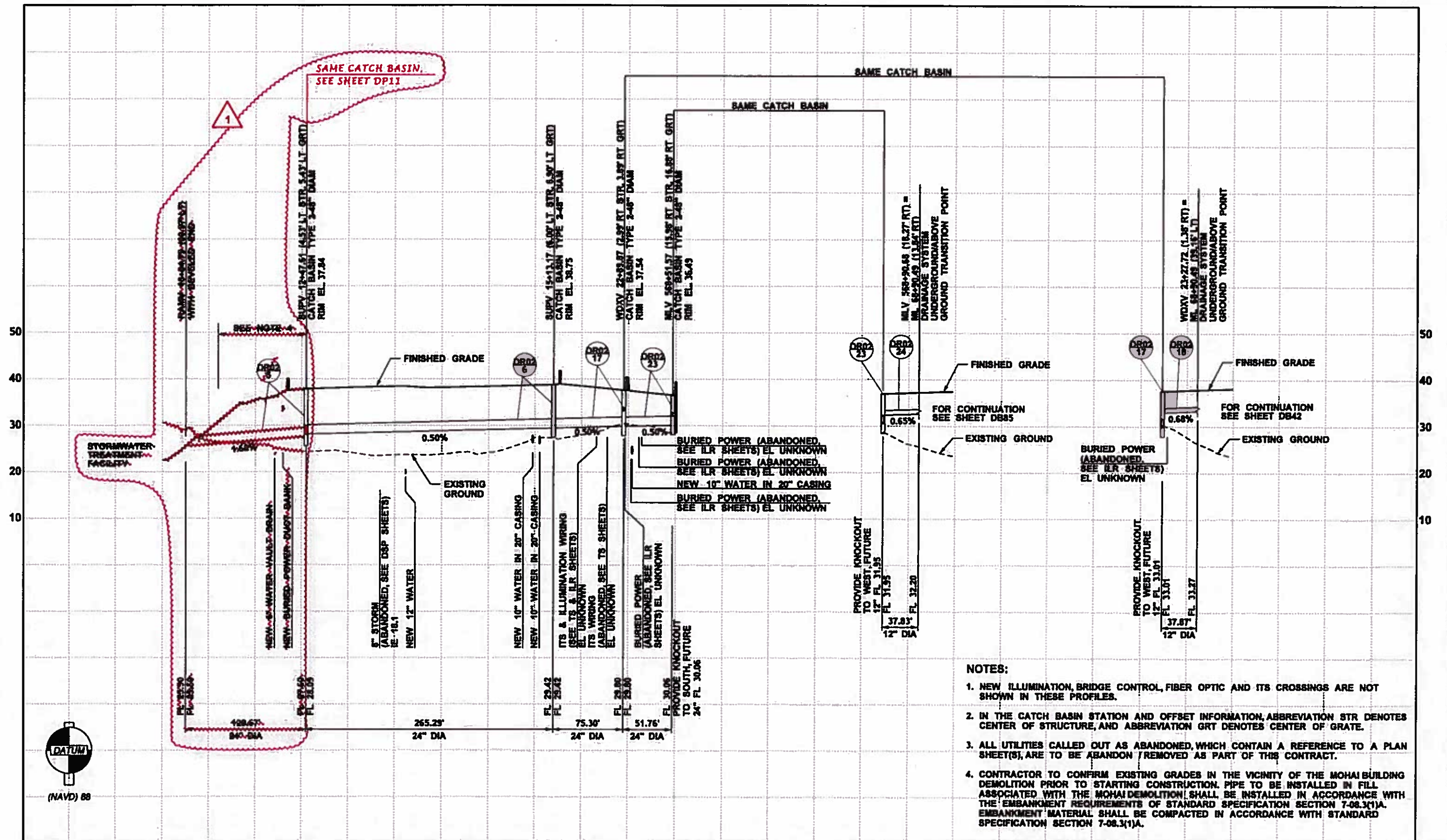
Parametrix

Contract 8625
Change Order #115
Page 42 of 72

PLAN REV. NO.
DP07

SHEET
243
OF
1797
SHEETS

DRAINAGE PROFILE



- NOTES:**
1. NEW ILLUMINATION, BRIDGE CONTROL, FIBER OPTIC AND ITS CROSSINGS ARE NOT SHOWN IN THESE PROFILES.
 2. IN THE CATCH BASIN STATION AND OFFSET INFORMATION, ABBREVIATION STR DENOTES CENTER OF STRUCTURE, AND ABBREVIATION GRT DENOTES CENTER OF GRATE.
 3. ALL UTILITIES CALLED OUT AS ABANDONED, WHICH CONTAIN A REFERENCE TO A PLAN SHEET(S), ARE TO BE ABANDON / REMOVED AS PART OF THIS CONTRACT.
 4. CONTRACTOR TO CONFIRM EXISTING GRADES IN THE VICINITY OF THE MOHAI BUILDING DEMOLITION PRIOR TO STARTING CONSTRUCTION. PIPE TO BE INSTALLED IN FILL ASSOCIATED WITH THE MOHAI DEMOLITION SHALL BE INSTALLED IN ACCORDANCE WITH THE EMBANKMENT REQUIREMENTS OF STANDARD SPECIFICATION SECTION 7-08.3(1)A. EMBANKMENT MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 7-08.3(1)A.



(NAVD) 88

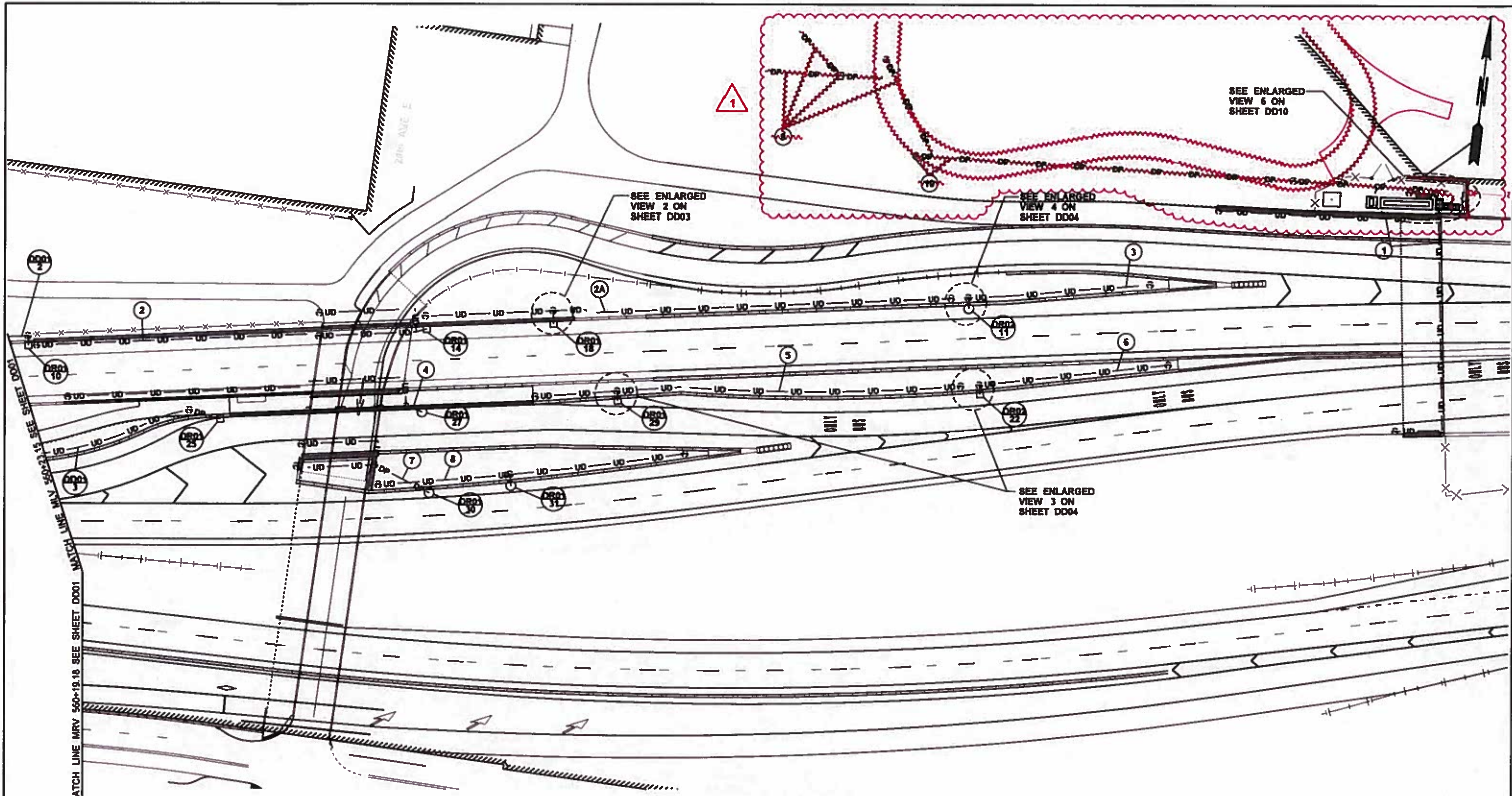
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DATE	8/2/2016	10	WASH	
PLOTTED BY	schicv	JOB NUMBER	13A012	
DESIGNED BY	J. VANIER	CONTRACT NO.		LOCATION NO.
ENTERED BY	Y. JIANG			
CHECKED BY	J. COOP			
PROJ. ENGR.	D. EDWARDS	REVISION	12/1/15	JLC
REGIONAL ADM.	J. MEREDITH	DATE		BY



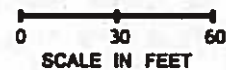
Contract 8625
Change Order #115
Page 43 of 72

PLAN REF. NO.
DP08
SHEET
244
OF
1797
SHEETS

DRAINAGE PROFILE



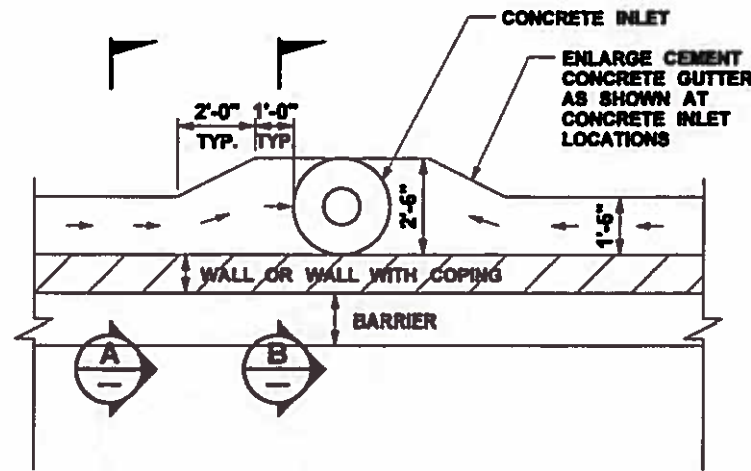
UNDERDRAIN SYSTEM



NOTES:

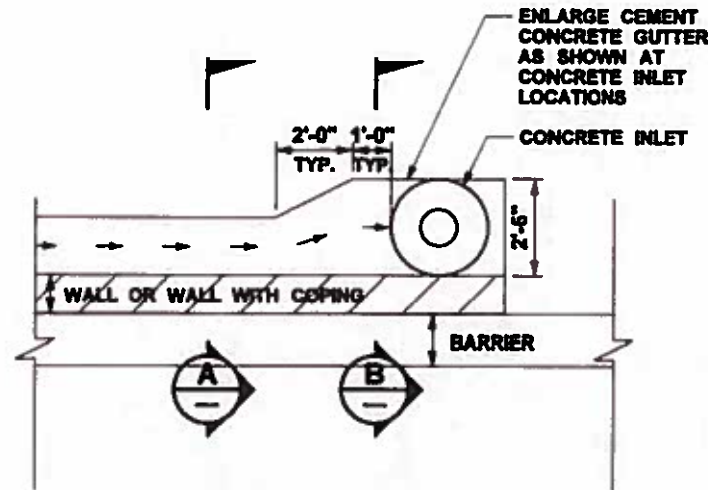
1. SEE SHEETS DR01 AND DR02 FOR THE CATCH BASIN, CONCRETE INLET AND STORM DRAIN SYSTEMS.
2. SEE WR SHEETS FOR WALL TYPES AND RETAINING BARRIER LOCATIONS.

FILE NAME		TIME 12:09:25 PM		DATE 8/2/2016		PLOTTED BY schlcov		DESIGNED BY J. VANIER		ENTERED BY Y. JIANG		CHECKED BY J. COOP		PROJ. ENGR. D. EDWARDS		REGIONAL ADM. J. MEREDITH		<p>CO#115 - DELETE FACILITY M</p> <p>REVISION</p>		<p>12/1/15</p> <p>DATE</p>		<p>JLC</p> <p>BY</p>		<p>10 WASH</p> <p>JOB NUMBER</p> <p>13A012</p> <p>CONTRACT NO.</p>		<p>FED.AID PROJ.NO.</p> <p>LOCATION NO.</p>								<p>Contract 8625</p> <p>Change Order #115</p> <p>Page 44 of 72</p>		<p>PLAN REF. NO. DD02</p>		<p>SHEET 248 OF 1797 SHEETS</p>	
																		DRAINAGE DETAILS																					



NOTE:
1. WALL FEATURES (SHAPE AND PROPORTION) SHOWN FOR GENERAL PRESENTATION PURPOSES ONLY. SEE WR SHEETS FOR ACTUAL SHAPE AND DESIGN INFORMATION.

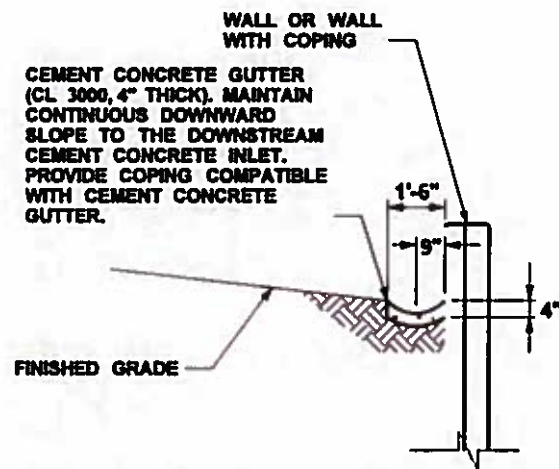
CASE 1 - BIDIRECTIONAL CEMENT CONCRETE GUTTER FLOW



NOTE:
1. WALL FEATURES (SHAPE AND PROPORTION) SHOWN FOR GENERAL PRESENTATION PURPOSES ONLY. SEE WR SHEETS FOR ACTUAL SHAPE AND DESIGN INFORMATION.

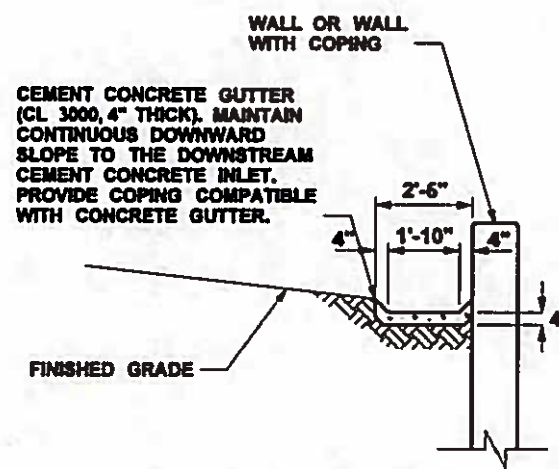
CASE 2 - UNIDIRECTIONAL CEMENT CONCRETE GUTTER FLOW

PLAN



NOTE:
1. WALL FEATURES (SHAPE AND PROPORTION) SHOWN FOR GENERAL PRESENTATION PURPOSES ONLY. SEE WR SHEETS FOR ACTUAL SHAPE AND DESIGN INFORMATION.

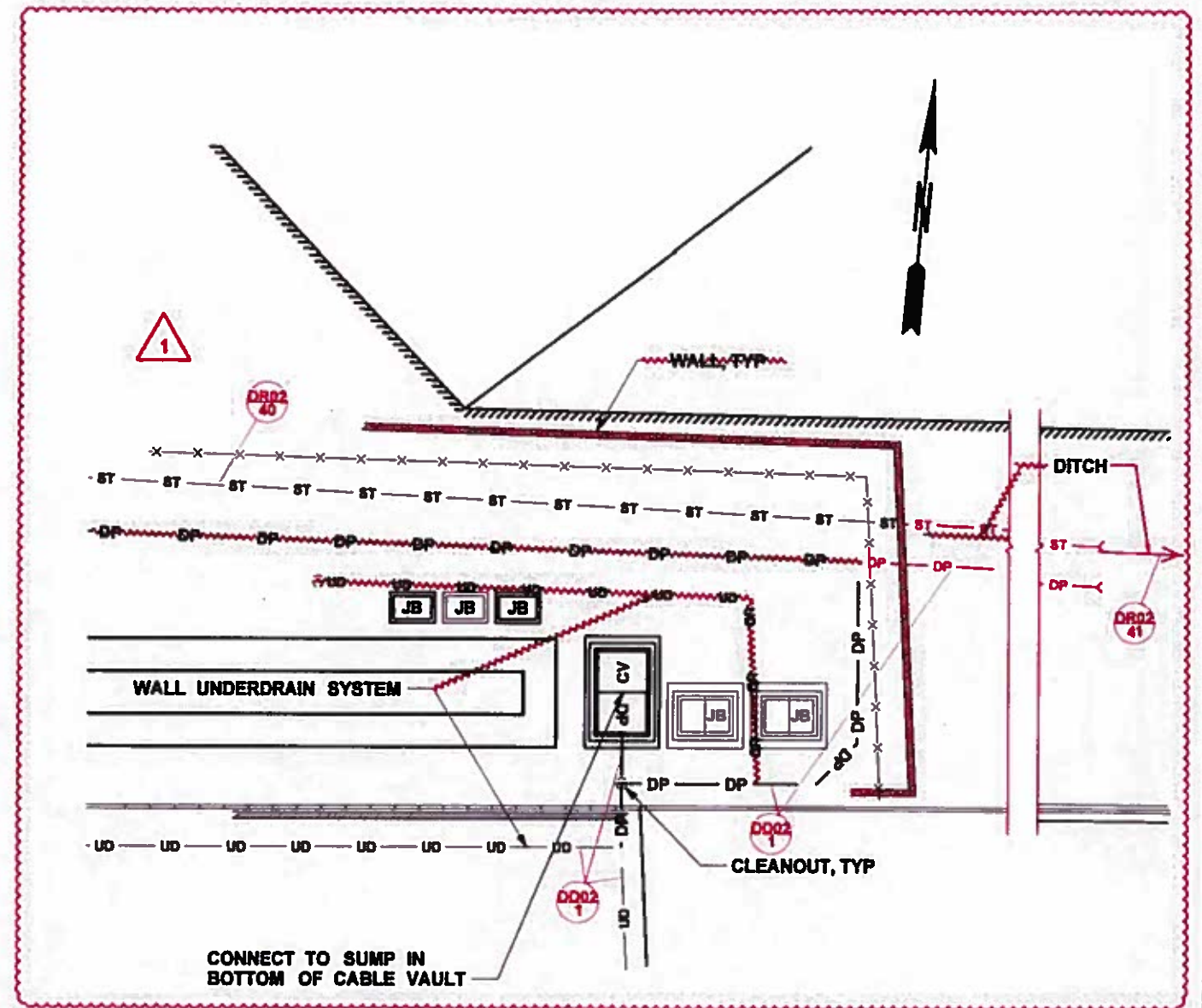
SECTION A



NOTE:
1. WALL FEATURES (SHAPE AND PROPORTION) SHOWN FOR GENERAL PRESENTATION PURPOSES ONLY. SEE WR SHEETS FOR ACTUAL SHAPE AND DESIGN INFORMATION.

SECTION B

CEMENT CONCRETE GUTTER
N.T.S.



NOTES:
1. SEE SHEETS DD01 AND DD02 FOR THE UNDERDRAIN SYSTEMS, AND SHEETS DR01 AND DR02 FOR THE CATCH BASIN, CONCRETE INLET AND STORM DRAIN SYSTEMS.
2. SEE WR SHEETS FOR WALL TYPES AND RETAINING BARRIER LOCATIONS.

ENLARGED VIEW 6

0 5 10
SCALE IN FEET

FILE NAME	TIME 12:11:42 PM	DATE 8/2/2016	DESIGNED BY J. VANIER	ENTERED BY Y. JIANG	CHECKED BY J. COOP	PROJ. ENGR. D. EDWARDS	REGIONAL ADM. J. MEREDITH	REVISION	DATE 12/1/15	BY JLC	CONTRACT NO. 13A012	LOCATION NO.	FED.AID PROJ.NO.	REGION NO. 10	STATE WASH	
<p>CO#115 - DELETE FACILITY M</p>											<p>3/8/16</p>		<p>PARSONS BRINCKERHOFF</p>		<p>Parametrix</p>	

HDR
ENGINEERING INC.



Washington State
Department of Transportation
PARSONS BRINCKERHOFF

Contract 8625
Change Order #115
Page 45 of 72

PLAN REF. NO. DD10
SHEET 256 OF 1797 SHEETS

DRAINAGE DETAILS

CONCRETE INLET, SMALL CATCH BASIN, AND DRAIN PIPE ELEVATIONS AT KEY LOCATIONS

STRUCTURE NOTE CODE	DESCRIPTION	STATION AND OFFSET	ELEVATION
DR01-11	CONCRETE INLET	WDXV 15+04.72; OFFSET DEPENDENT ON SUPPLIER PROVIDED WALL DESIGN. LOCATE CONCRETE INLET AGAINST BACK OF WALL / WALL COPING. SEE ENLARGEMENT VIEW 1 ON SHEET DD03.	RIM ELEVATION BASED ON FINISHED GRADE, SEE CN SHEETS; FL 2.5' BELOW RIM
DR01-17	CONCRETE INLET	WDXV 17+82.30; OFFSET DEPENDENT ON SUPPLIER PROVIDED WALL DESIGN. LOCATE CONCRETE INLET AGAINST BACK OF WALL / WALL COPING. SEE ENLARGEMENT VIEW 2 ON SHEET DD03.	RIM ELEVATION BASED ON FINISHED GRADE, SEE CN SHEETS; FL 2.5' BELOW RIM
DR01-24	CONNECT TO EXISTING CABLE VAULT	TRV 13+37.72 (6.64' RT)	FL 39.95 (INSIDE BOTTOM OF EXISTING VAULT)
DR01-24	DRAIN PIPE CONNECTION POINT	TRV 13+86.38 (7.93' RT)	FL 39.46
DR01-22	SMALL CATCH BASIN	TRV 11+66.61 (3.48' RT)	RIM 56.90 FL 53.44
DR01-24	VERTICAL ANGLE POINT	TRV 11+90.33 (4.77' LT)	FL 53.34
DR01-24	VERTICAL ANGLE POINT	TRV 11+89.90 (0.72' LT)	FL 52.79
DR01-24	VERTICAL ANGLE POINT	TRV 11+89.90 (0.72' LT)	FL 39.10
DR01-24	DRAIN PIPE CONNECTION POINT	TRV 14+41.13 (7.89' RT)	FL 38.91
DR01-24	DRAIN PIPE CONNECTION POINT	TRV 15+08.91 (7.89' RT)	FL 38.16
DR01-23	SMALL CATCH BASIN	TRV 15+12.69 (8.89' LT)	RIM 41.84 FL 40.38
DR01-24	VERTICAL ANGLE POINT	TRV 15+12.69 (0.30' RT)	FL 39.92
DR01-24	DRAIN PIPE CONNECTION POINT	TRV 15+12.69 (7.89' RT)	FL 38.04
DR01-24	DRAIN PIPE CONNECTION POINT	TRV 15+36.70 (7.89' RT)	FL 37.29
DR01-24	CLEANOUT	TRV 17+66.40 (0.92' LT)	FL 28.25 (SW), FL 24.92 (SE)
DD02-1	CONNECTION TO VAULT SUMP	WPXV 16+62.38 (48.58' LT.) RAMV 15+55.77 (55.58' LT.)	FL 21.00 (OUTSIDE BOTTOM OF VAULT)
DD02-1	VAULT DRAIN VERTICAL BEND	WPXV 16+62.38 (48.58' LT.) RAMV 15+55.77 (55.58' LT.)	FL 20.14
DD02-1	CLEANOUT (VAULT AND WALL DRAIN CONNECTION)	WPXV 16+62.53 (43.00' LT.) RAMV 15+57.58 (58.84' LT.)	FL 20.08
DD02-1	ANGLE POINT	WPXV 16+74.46 (43.31' LT.) RAMV 15+55.25 (58.57' LT.)	FL 19.97
DD02-1	ANGLE POINT	WPXV 16+76.89 (45.87' LT.) RAMV 15+54.97 (58.55' LT.)	FL 19.93
DD02-1	ANGLE POINT	WPXV 16+76.60 (56.99' LT.) RAMV 15+55.35 (58.54' LT.)	FL 19.82
DD02-1	CONNECTION TO DD02-19	RAMV 15+55.35 (58.54' LT.)	FL 19.82 (5")
DD02-1	PRESETTLING CELL OUTLET	FACM 10+49.76 (34.37' LT)	FL 22.86
DD02-1	OB TYPE 3, 60" DIA	FACM 10+45.90 (28.07' RT) BTR FACM 10+47.38 (1.37' RT) CRT	FL 22.42, SEE DP02
DD02-1	CONNECTION TO PRESETTLING CELL UNDERDRAIN	FACM 10+08.00 (2.00' RT)	FL 20.30
DD02-1	CONNECTION TO MAIN DR LINE	RAMV 15+86.38 (5.78' RT)	FL 28.34
DD02-1	CONNECTION TO DD02-19	RAMV 15+89.55 (3.04' LT)	FL 28.18
DD02-19	CLEANOUT	RAMV 15+89.55 (3.25' LT)	FL 19.73
DD02-1	DISCHARGE POINT	WPXV 17+04.64 (56.23' LT.) RAMV 15+49.95 (78.55' LT.)	FL 19.52



STRUCTURE ADJUSTMENTS

STRUCTURE NOTE CODE	STRUCTURE TYPE	EXISTING RIM ELEVATION (FT)	NEW RIM ELEVATION (FT)	ELEVATION CHANGE (FT)
DR01-20	CB	63.62	63.62	0
DR01-38	SDMH	41.64	40.58	-1.06
DR01-39	SDMH	36.36	35.63	-0.73
DR01-41	CB	30.62	30.76	0.14
DR01-51	CLEANOUT	59.14	58.54	-0.60
DR01-54	CLEANOUT	50.65	50.65	0
DR01-61	CB	56.24	56.24	0
DR02-34	SDMH	29.23	29.73	0.50
DR02-35	SDMH	25.03	26.05	1.02

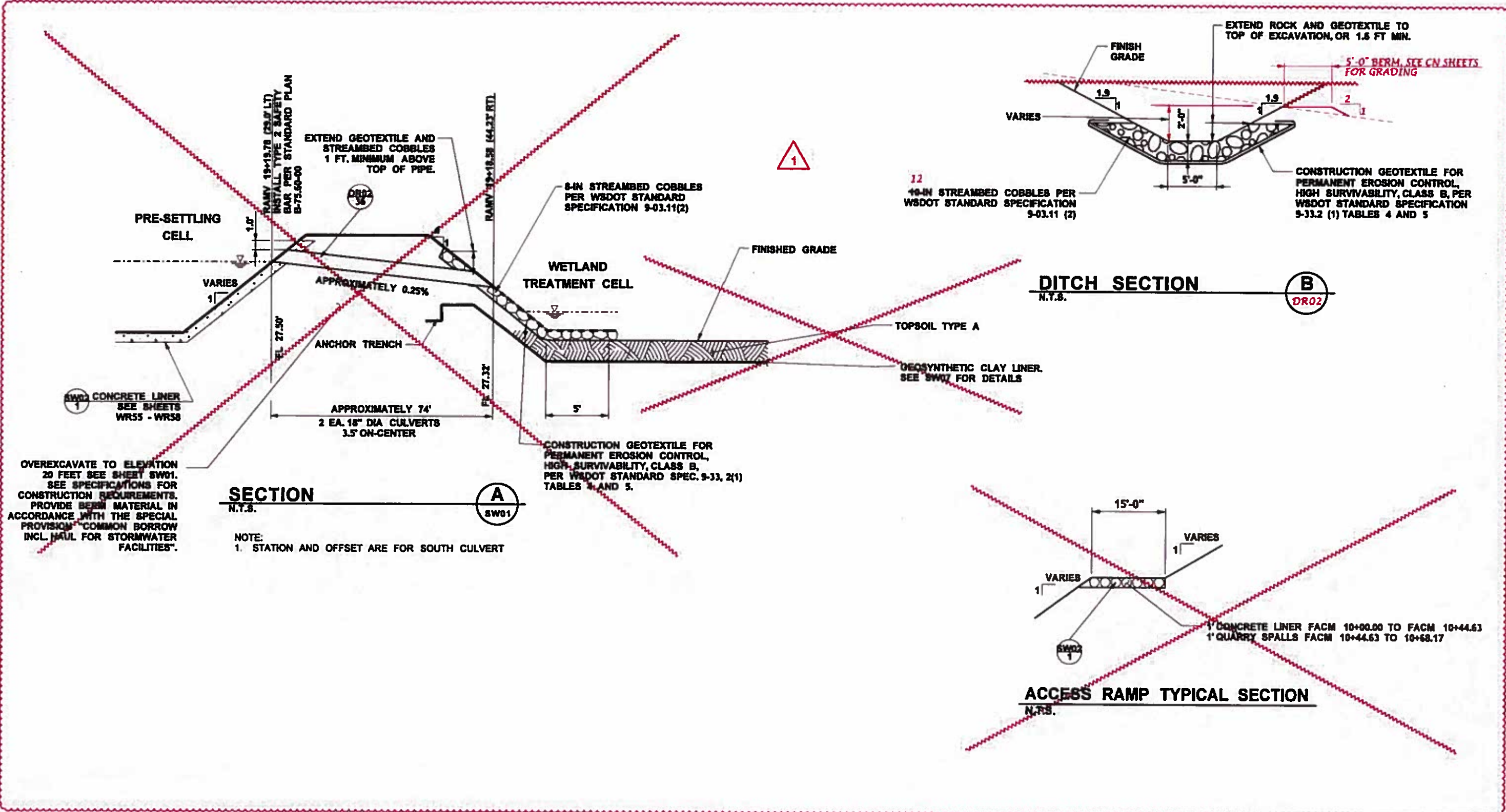
NOTE:
NEW RIM ELEVATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED TO MATCH FINISHED GRADE.

CLEANOUT LOCATION SCHEDULE

STRUCTURE NOTE CODE	LOCATION	STRUCTURE NOTE CODE	LOCATION
DR01-24	TRV 10+73.82 (2.05' LT)	DD02-2	WDXV 16+25.14 (44.91' LT)
DR01-24	TRV 10+76.80 (2.41' LT)	DD02-2A	WDXV 16+90.60 (50.23' LT)
DR01-24	TRV 11+50.78 (2.21' LT)	DD02-2A	WDXV 17+71.07 (41.88' LT)
DR01-24	TRV 11+75.69 (2.07' LT)	DD02-2A	WDXV 20+27.09 (37.14' LT)
DR01-24	TRV 11+75.85 (4.96' LT)	DD02-3	WDXV 20+31.34 (37.14' LT)
DR01-24	TRV 13+50.04 (4.76' LT)	DD02-3	WDXV 21+44.68 (40.71' LT)
DR01-24	TRV 13+86.18 (2.71' LT)	DD02-4	WDXV 14+65.62 (0.75' RT)
DR01-24	TRV 14+88.77 (20.51' LT)	DD02-4	MLHV 11+94.31 (14.08' LT)
DR01-24	TRV 15+08.91 (11.35' LT)	DD02-4	MLHV 12+55.36 (14.08' LT)
DR01-24	TRV 15+34.34 (6.50' LT)	DD02-5	MLHV 13+36.42 (14.68' LT)
DR01-24	TRV 17+66.40 (0.92' LT)	DD02-5	MLHV 13+86.22 (20.39' LT)
DD01-1	WDXV 11+63.04 (31.11' LT)	DD02-5	MLHV 16+13.74 (25.61' LT)
DD01-1	WDXV 13+10.16 (37.14' LT)	DD02-6	MLHV 16+16.80 (25.64' LT)
DD01-2	WDXV 13+13.27 (37.14' LT)	DD02-6	MLHV 17+35.65 (25.37' LT)
DD01-2	WDXV 14+42.00 (37.14' LT)	DD02-7	MLHV 11+89.21 (6.67' RT)
DD01-3	MLV 557+37.93 (27.16' LT)	DD02-7	MLHV 11+85.33 (20.37' RT)
DD01-3	MLHV 11+33.15 (22.63' LT)	DD02-7	MLHV 12+34.53 (21.67' RT)
DD01-4	EDXV 12+96.39 (19.46' RT)	DD02-8	MLV 562+19.79 (18.15' LT)
DD01-4	EDXV 14+89.04 (16.89' RT)	DD02-8	MLV 563+03.10 (19.60' LT)
DD02-1	MLV 568+58.40 (11.91' RT)	DD02-8	MLV 564+13.89 (21.53' LT)
DD02-1	WPXV 15+22.91 (31.69' LT)	DD02-8	RAMV 15+98.76 (0.42' LT)
DD02-1	SUPV 15+49.03 (16.00' LT.) RAMV 15+57.59 (58.84' LT.)	DD02-8	RAMV 15+98.76 (0.42' LT)
DD02-1	SUPV 15+30.39 (28.30' LT.) RAMV 15+57.59 (58.84' LT.)	DD02-10	RAMV 15+37.44 (7.48' LT)
DD02-2	WDXV 14+47.29 (30.50' LT)	DD02-10	RAMV 15+99.01 (3.82' LT)
DD02-2	WDXV 16+24.12 (30.42' LT)		

NOTE:
THE SUPPLIER PROVIDED DESIGNS FOR THE BLOCK AND EARTH RETAINING WALLS, ALONG WITH THE ASSOCIATED UNDERDRAIN SYSTEM MAY PROMPT MODIFICATION TO THE CLEANOUT LOCATIONS. ENGINEER APPROVAL IS NECESSARY FOR ALL CLEANOUT LOCATION MODIFICATIONS.

FILE NAME	12:13:11 PM	REGION NO.	STATE	FED.AID PROJ.NO.			Contract 8625 Change Order #115 Page 46 of 72	PLAN REF. NO.	DD11
TIME	8/2/2016	10	WASH						SHEET 257 OF 1797 SHEETS
DATE		JOB NUMBER		LOCATION NO.		PARSONS BRINCKERHOFF	DRAINAGE DETAILS		
PLOTTED BY	schkecv	CONTRACT NO.				Parametrix			
DESIGNED BY	J. VANIER								
ENTERED BY	J. BEAN								
CHECKED BY	J. COOP								
PROJ. ENGR.	D. EDWARDS								
REGIONAL ADM.	J. MEREDITH	REVISION Δ CO#115 - DELETE FACILITY M	DATE 12/1/15	BY JLC					



FILE NAME	TIME 12:19:05 PM	DATE 8/2/2016	DESIGNED BY J. COOP	ENTERED BY J. BEAN	CHECKED BY J. COOP	PROJ. ENGR. D. EDWARDS	REGIONAL ADM. J. MEREDITH	REVISION	DATE	BY	REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	JOB NUMBER 13A012	CONTRACT NO.	LOCATION NO.
								CO#115 - DELETE FACILITY M	12/1/15	JLC						

			Contract 8625 Change Order #115 Page 48 of 72	PLAN REF. NO. SW04
				SHEET 264 OF 1797 SHEETS
STORMWATER FACILITIES				

SUMMARY OF BRIDGE DRAINAGE SYSTEM QUANTITIES

ITEM	GROUP 1 UP TO MILEPOST 1.53 / ML STA 93+03.31		GROUP 2 BEYOND MILEPOST 1.53 / ML STA 93+03.31		TOTAL (GROUP 1 + GROUP 2)	
	MEASUREMENT	AMOUNT	MEASUREMENT	AMOUNT	MEASUREMENT	AMOUNT
CLASS 53 DUCTILE IRON STORM SEWER PIPE 8-IN. DIAM.	LF	54	LF	84	LF	138
CLASS 53 DUCTILE IRON STORM SEWER PIPE 10-IN. DIAM.	LF	485	LF	923	LF	1,408
CLASS 53 DUCTILE IRON STORM SEWER PIPE 12-IN. DIAM.	LF	2,307	LF	2,286	LF	4,593
GROOVED END COUPLING 8-IN. DIAM.	EA	59	EA	97	EA	156
GROOVED END COUPLING 10-IN. DIAM.	EA	165	EA	138	EA	303
GROOVED END COUPLING 12-IN. DIAM.	EA	204	EA	211	EA	415
GROOVED END FLANGE ADAPTER 8-IN. DIAM.	EA	6	EA	21	EA	27
GROOVED END FLANGE ADAPTER 10-IN. DIAM.	EA	40	EA	20	EA	60
GROOVED END FLANGE ADAPTER 12-IN. DIAM.	EA	37	EA	33	EA	70
GROOVED END FLANGE ADAPTER 14-IN. DIAM.	EA	6	EA	6	EA	12
BEVELED FLANGE FILLER 8-IN. DIAM.	EA	1	EA	4	EA	5
BEVELED FLANGE FILLER 10-IN. DIAM.	EA	17	EA	9	EA	26
45 DEG. ELBOW 8-IN. DIAM.	EA	28	EA	50	EA	78
45 DEG. LATERAL 8-IN. DIAM.	EA	1	EA	1	EA	2
CAP 8-IN. DIAM.	EA	1	EA	1	EA	2
11-1/4 DEG. ELBOW 10-IN. DIAM.	EA	0	EA	1	EA	1
45 DEG. ELBOW 10-IN. DIAM.	EA	74	EA	37	EA	111
45 DEG. LATERAL 10-IN. DIAM.	EA	8	EA	12	EA	20
CAP 10-IN. DIAM.	EA	4	EA	5	EA	9
22-1/2 DEG. ELBOW 12-IN. DIAM.	EA	0	EA	0	EA	0
45 DEG. ELBOW 12-IN. DIAM.	EA	4	EA	7	EA	11
45 DEG. LATERAL 12-IN. DIAM.	EA	16	EA	18	EA	34
45 DEG. REDUCING LATERAL 10-IN. DIAM. X 8-IN. DIAM.	EA	0	EA	2	EA	2
45 DEG. REDUCING LATERAL 12-IN. DIAM. X 8-IN. DIAM.	EA	9	EA	14	EA	23
45 DEG. REDUCING LATERAL 12-IN. DIAM. X 10-IN. DIAM.	EA	25	EA	8	EA	33
CONCENTRIC REDUCER 12-IN. DIAM. X 10-IN. DIAM.	EA	0	EA	1	EA	1
ECCENTRIC REDUCER 14-IN. DIAM. X 10-IN. DIAM.	EA	2	EA	2	EA	4
ECCENTRIC REDUCER 14-IN. DIAM. X 12-IN. DIAM.	EA	4	EA	4	EA	8
CAP 12-IN. DIAM.	EA	17	EA	18	EA	35
DOUBLE-BALL FLEXIBLE EXPANSION JOINT 14-IN. DIAM.	EA	2	EA	3	EA	5
SINGLE-BALL FLEXIBLE EXPANSION JOINT 14-IN. DIAM.	EA	2	EA	0	EA	2
FLEXIBLE RESTRAINED JOINT 10-IN. DIAM.	EA	1	EA	0	EA	1
FLEXIBLE RESTRAINED JOINT 12-IN. DIAM.	EA	8	EA	1	EA	9
CLEANOUT	EA	2	EA	7	EA	9
FLAP GATE 8-IN. DIAM.	EA	7	EA	9	EA	16
FLAP GATE 10-IN. DIAM.	EA	0	EA	1	EA	1
NEENAH BRIDGE DRAIN R-3923	EA	21	EA	9	EA	30
NEENAH ADJUSTABLE BRIDGE DRAIN R-3923	EA	9	EA	7	EA	16
RECTANGULAR FRAME AND VANED GRATE	EA	7	EA	10	EA	17
MODULAR MECHANICAL PIPE SEAL	EA	2	EA	0	EA	2
CATCH BASIN	EA	7	EA	10	EA	17
HANGERS, BRACES, AND SUPPORTS	LS	1	LS	1	LS	2

BRIDGE DRAINAGE SYSTEM GENERAL NOTES:










- BRIDGE DRAINAGE PIPING SHALL BE DUCTILE IRON CL. 53 WITH CEMENT-MORTAR LINING IN CONFORMANCE WITH SPECIAL PROVISION "STORM SEWERS".
- PIPE FITTINGS SHALL CONSIST OF THE SAME MATERIAL AS THE PIPE. SEE THE SPECIAL PROVISION "STORM SEWERS" FOR ADDITIONAL INFORMATION.
- PIPE JOINTS SHALL BE RADIUS CUT FLEXIBLE GROOVED END, UNLESS OTHERWISE NOTED ON THESE PLANS. GAPS AT ALL FLEXIBLE GROOVED END CONNECTIONS SHALL BE SET AS SPECIFIED IN THE DETAIL ON SHEET DB107.
- ALL FITTINGS SHALL BE RADIUS CUT RIGID GROOVED END.
- CONNECTION OF PIPES AND FITTINGS SHALL BE WITH GROOVED END TYPE COUPLINGS, UNLESS OTHERWISE SHOWN ON THESE PLANS (BY CALLOUT OR SYMBOL).
- WHERE SHOWN ON THE PLANS (BY CALLOUT OR SYMBOL), FLANGE END CONNECTIONS ON FITTINGS SHALL BE GROOVED END WITH FLANGE ADAPTERS.
- WHERE SHOWN ON THE PLANS (BY CALLOUT OR SYMBOL), FLANGE END CONNECTIONS FOR PIPES SHALL BE SHOP-FABRICATED FLANGED JOINT PIPE, UNLESS OTHERWISE NOTED. SHOP-FABRICATED FLANGES SHALL NOT BE REMOVED OR REASSEMBLED IN THE FIELD.
- BOLT HOLES ON FLANGES SHALL BE ALIGNED IN CONFORMANCE WITH SPECIAL PROVISION "STORM SEWERS".
- FLEXIBLE RESTRAINED JOINTS SHALL BE PUSH-ON OR MECHANICAL, AND SHALL INCLUDE A FACTORY-APPLIED WELDED-ON DUCTILE IRON RETAINER RING ON THE PIPE SPIGOT. ALL WELDING SHALL BE PERFORMED AT THE PLACE OF PIPE MANUFACTURING. THE JOINT SHALL HAVE A 3 DEGREE MINIMUM DEFLECTION CAPABILITY. SEE SPECIAL PROVISION "STORM SEWERS" FOR ADDITIONAL INFORMATION.
- PIPE, FITTINGS, AND COUPLINGS SHALL BE DELIVERED TO THE JOB SITE WITH EXTERIOR COATING IN ACCORDANCE WITH THE SPECIAL PROVISION "STORM SEWERS".
- SCUPPERS ARE REQUIRED IN THE BARRIERS, SEE BA SHEETS FOR DETAILS. THESE SCUPPERS CAN BE REMOVED TO PROVIDE SCUPPER OPENINGS IN THE BARRIER DURING THE FUTURE TEMPORARY TWO-WAY TRAFFIC CONFIGURATION WHEN WABS IS UNDER CONSTRUCTION. THE SCUPPERS WILL ACCOMMODATE DRAINAGE WHEN SHOULDERS ARE TEMPORARILY REDUCED DURING THE FUTURE CONSTRUCTION STAGE. THE SCUPPERS CAN BE PERMANENTLY PLUGGED ONCE WABS IS CONSTRUCTED AND THE ORIGINAL WABN CHANNELIZATION IS RESTORED.
- TO ACCOMMODATE FUTURE LIGHT RAIL EXTENSION OF THE BRIDGE DRAINAGE SYSTEM MAY BE NECESSARY. KNOCKOUTS ARE PROVIDED IN GIRDERS AT POTENTIAL CROSSING LOCATIONS. THESE GIRDERS INCLUDE 9L, 10K, 10L, 11K, 11L, 14J, 14K, 15H, 15J, 16H, 16J, 29F, 29G, 30F, 30G, 31F, 31G, 32F, 32G, 33F, 33G, 34F, 34G, 35B, 36B, 37B, 38B, AND 39B (SEE BA SHEETS FOR GIRDER KNOCKOUT INFORMATION).
- THE BRIDGE DRAINAGE SYSTEM ALIGNMENT MAY REQUIRE FIELD ADJUSTMENT TO ACCOMMODATE CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL POSITION THE TRUNK MAIN WITHIN THE BLOCKOUTS TO PROVIDE 1.5" MINIMUM CLEARANCE AT EXPANSION DIAPHRAGMS AND 1" MINIMUM CLEARANCE AT ALL OTHER BLOCKOUT LOCATIONS. MAINTAIN THE EXPANSION AND CONTRACTION MOVEMENT, AND PROVIDE POSITIVE DRAINAGE FLOW (0.30% MINIMUM SLOPE FOR 12" DIAMETER, 0.39% MINIMUM SLOPE FOR 10" DIAMETER, AND 0.51% MINIMUM SLOPE FOR 8" DIAMETER).
- THE CONTRACTOR SHALL SUBMIT DETAILED WORKING DRAWINGS. ANY PROPOSED ALTERATIONS TO THE DESIGN SHALL BE SHOWN ON THE WORKING DRAWINGS.
- THERE SHALL BE NO PIPE JOINTS WITHIN DIAPHRAGMS OR BETWEEN DIAPHRAGMS AND THE ADJACENT HANGER OR SUPPORT.

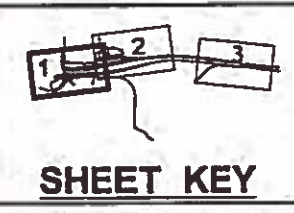
NOTE: THE QUANTITIES LISTED ON THIS SHEET ARE FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE UTILIZED SOLELY AT THE CONTRACTOR'S DISCRETION. PROVIDE ALL QUANTITIES AS REQUIRED FOR A COMPLETE INSTALLATION.

GENERAL NOTES AND QUANTITIES

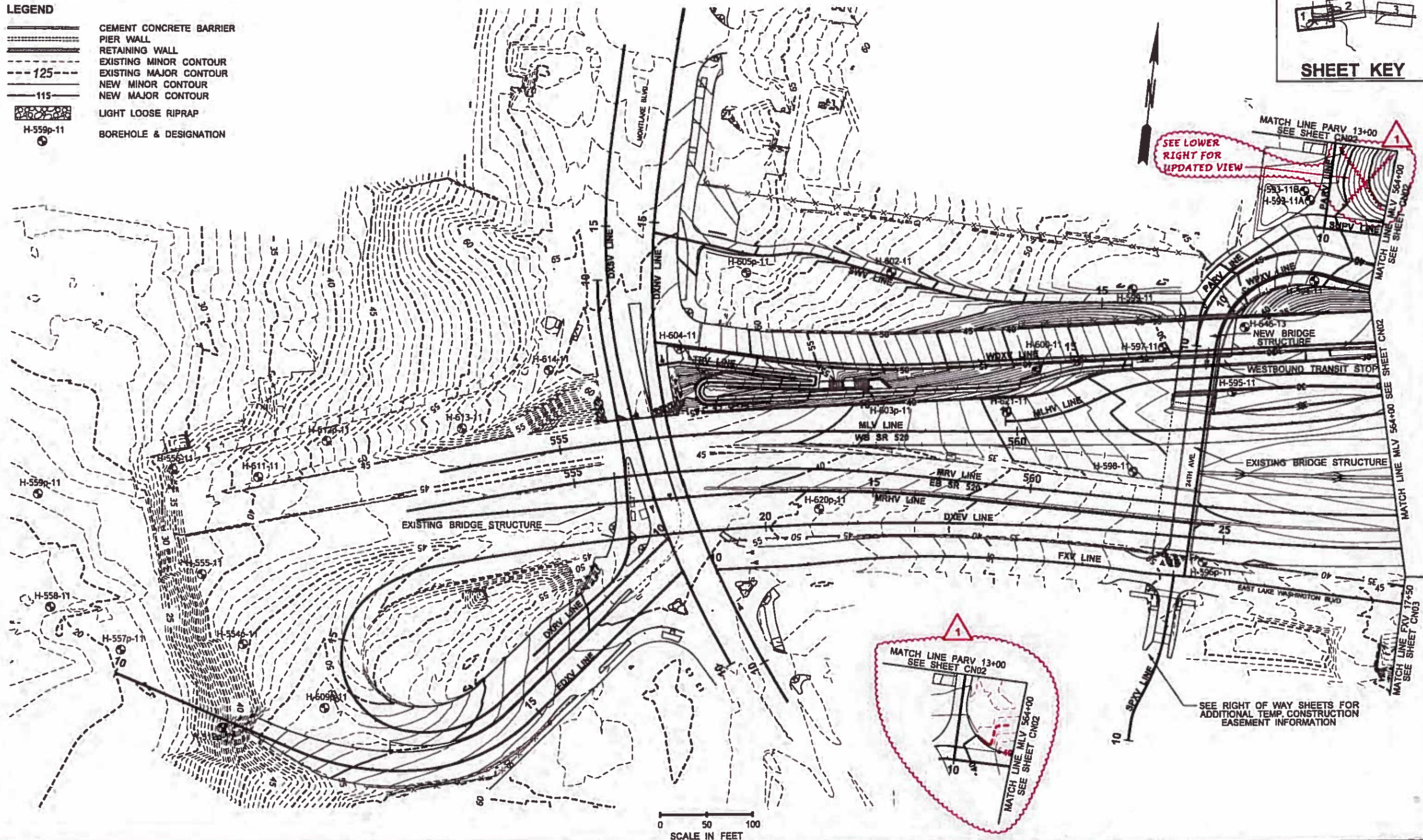
FILE NAME	12:22:57 PM	DATE	8/2/2016	DESIGNED BY	J. VANIER	ENTERED BY	Y. JIANG	CHECKED BY	J. COOP	PROJ. ENGR.	D. EDWARDS	REGIONAL ADM.	J. MEREDITH	REVISION	CO#100 - BRIDGE DRAINAGE MOD. 4/15/16 JLC	CO#115 - DELETE FACILITY M 12/1/15 JLC	DATE	BY	CONTRACT NO.	13A012	LOCATION NO.		FED.AID PROJ.NO.		REGION NO.	10	STATE	WASH	JOB NUMBER		DATE	8/18/16	P.L. STAMP BOX		Contract 8625 Change Order #115 Page 49 of 72	PLAN REF. NO. DB108	SHEET 375 OF 1797 SHEETS
																				HDR ENGINEERING INC.		Washington State Department of Transportation		PARSONS BRINCKERHOFF		Parametrix		BRIDGE DRAINAGE DETAILS									

LEGEND

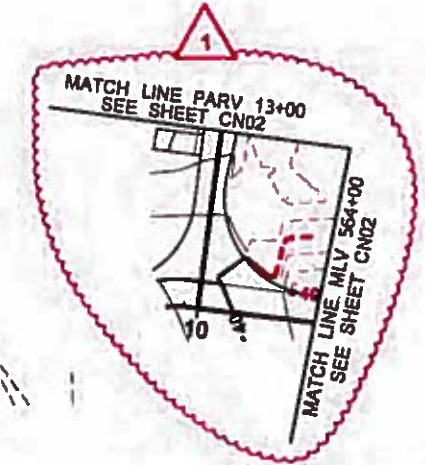
-  CEMENT CONCRETE BARRIER
-  PIER WALL
-  RETAINING WALL
-  EXISTING MINOR CONTOUR
-  EXISTING MAJOR CONTOUR
-  NEW MINOR CONTOUR
-  NEW MAJOR CONTOUR
-  LIGHT LOOSE RIPRAP
-  BOREHOLE & DESIGNATION



SHEET KEY








SEE LOWER RIGHT FOR UPDATED VIEW

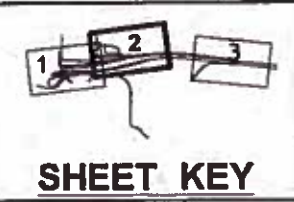


SEE RIGHT OF WAY SHEETS FOR ADDITIONAL TEMP. CONSTRUCTION EASEMENT INFORMATION

SCALE IN FEET

FILE NAME		REGION NO.		STATE		FED.AID PROJ.NO.					Contract 8625 Change Order #115 Page 50 of 72	PLAN REF. NO.
TIME	12:23:46 PM	10	WASH									CN01
DATE	8/2/2016	JOB NUMBER		CONTRACT NO.		LOCATION NO.				SHEET 441 OF 1797		
PLOTTED BY	schlcv	13A012								INTERCHANGE GRADING PLAN		
DESIGNED BY	C. LEE	DATE		BY								
ENTERED BY	C. LEE	12/23/2015		CL								
CHECKED BY	P. MERRELL											
PROJ. ENGR.	D. EDWARDS											
REGIONAL ADM.	J. MEREDITH											

CO#115 - DELETE FACILITY M REVISION DATE BY

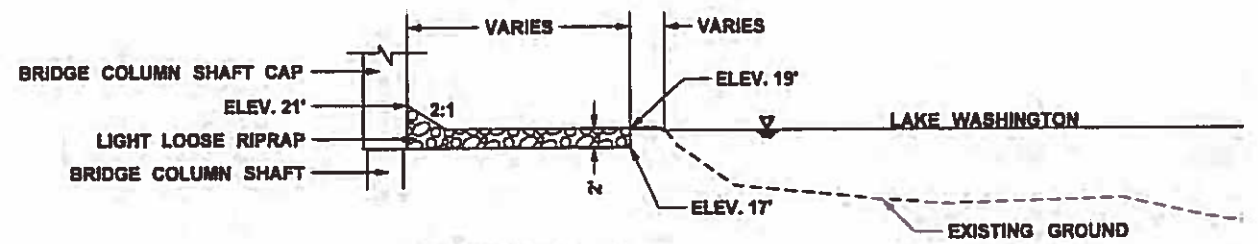


SHEET KEY

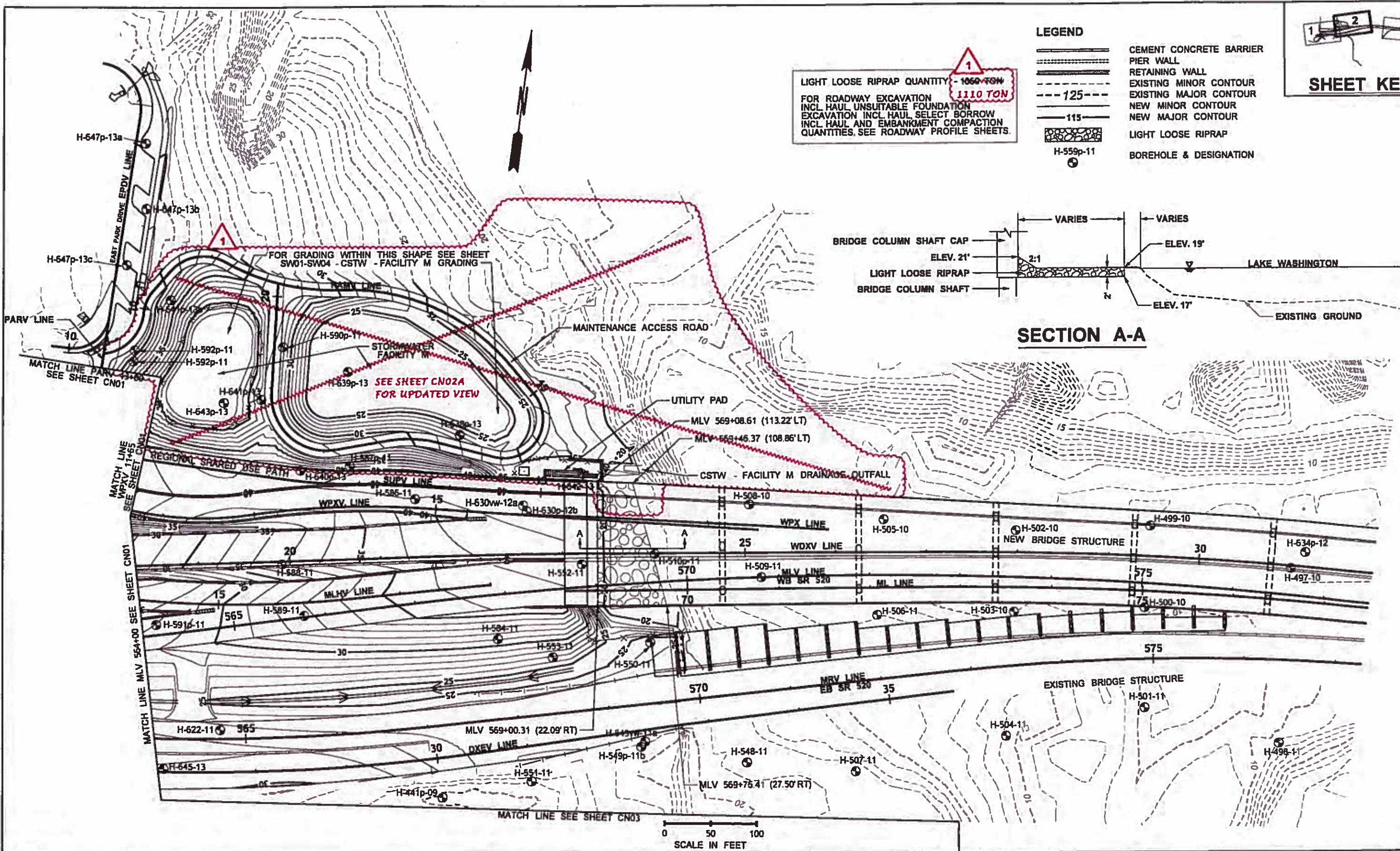
- LEGEND**
- CEMENT CONCRETE BARRIER
 - PIER WALL
 - RETAINING WALL
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - NEW MINOR CONTOUR
 - NEW MAJOR CONTOUR
 - LIGHT LOOSE RIPRAP
 - BOREHOLE & DESIGNATION

LIGHT LOOSE RIPRAP QUANTITY - 1060 TON
 1110 TON

FOR ROADWAY EXCAVATION INCL. HAUL UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL SELECT BORROW INCL. HAUL AND EMBANKMENT COMPACTION QUANTITIES, SEE ROADWAY PROFILE SHEETS.

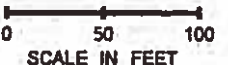
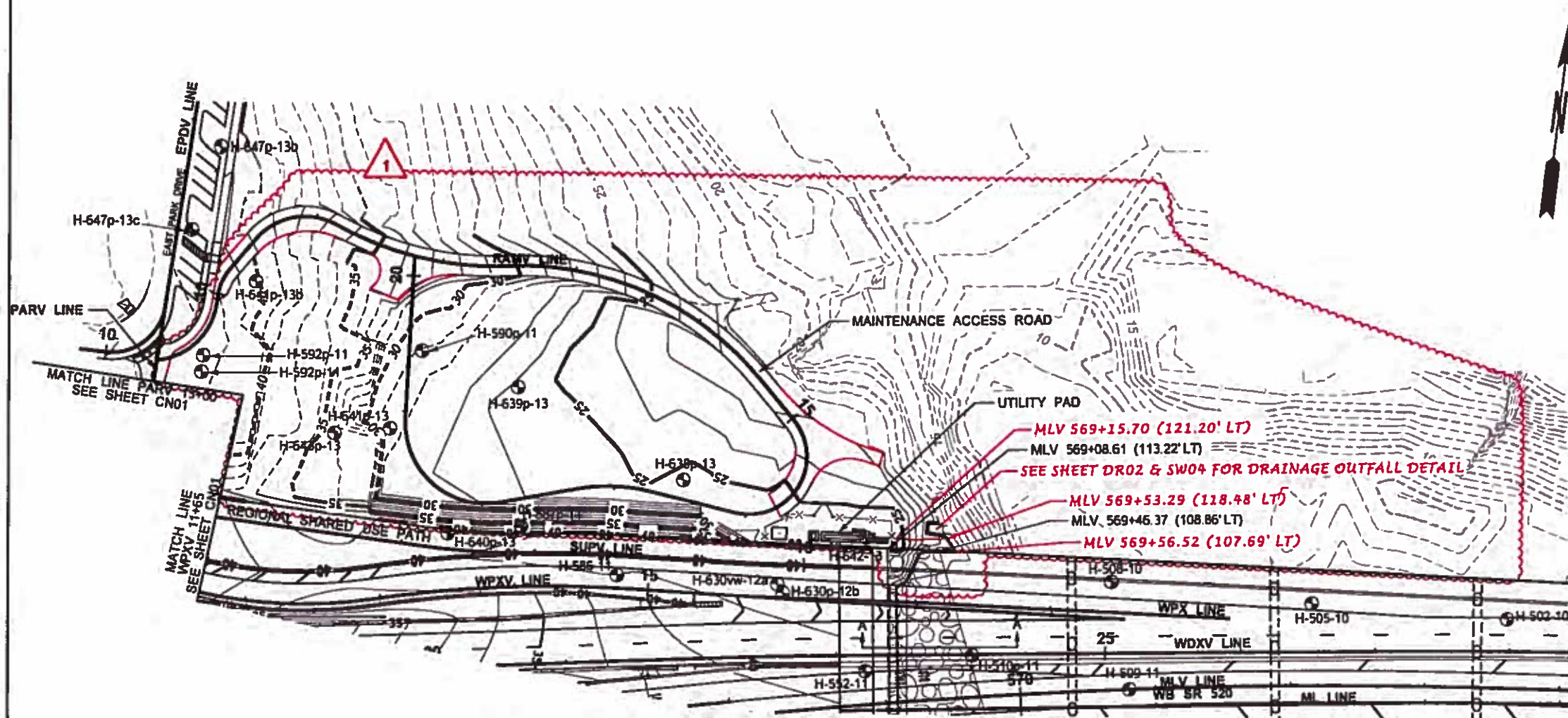


SECTION A-A



SCALE IN FEET
 0 50 100

FILE NAME		REGION NO.		FED.AID PROJ.NO.					Contract 8625 Change Order #115 Page 51 of 72	PLAN REF. NO. CN02
TIME	12:24:26 PM	10	WASH							
DATE	8/2/2016	JOB NUMBER	13A012	LOCATION NO.				SHEET 442 OF 1797 SHEETS		
PLOTTED BY	schiccv	CONTRACT NO.						INTERCHANGE GRADING PLAN		
DESIGNED BY	C. LEE	DATE	12/23/2015	BY	CL	CO#115 - DELETE FACILITY M REVISION				
ENTERED BY	C. LEE									
CHECKED BY	P. MERRELL									
PROJ. ENGR.	D. EDWARDS									
REGIONAL ADM.	J. MEREDITH									



FILE NAME	TIME	DATE	DESIGNED BY	CHECKED BY	PROJ. ENGR.	REGIONAL ADM.	REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.	LOCATION NO.	HDR ENGINEERING INC.	PHILIP D. BRINCKERHOFF REGISTERED PROFESSIONAL ENGINEER 8/2/16	Washington State Department of Transportation	PARSONS BRINCKERHOFF	Parametrix	Contract 8625 Change Order #115 Page 52 of 72	PLAN REF. NO. CN02A	SHEET 442a OF 1797 SHEETS
	12:25:18 PM	8/2/2015	C. LEE	P. MERRELL	D. EDWARDS	J. MEREDITH	CO#115 - DELETE FACILITY M	12/23/2015	CL	10	WASH										
INTERCHANGE GRADING PLAN																					

QUANTITY TABULATION - PAVING

NOTE: THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE. THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.		CEMENT CONC. SIDEWALK	CONCRETE CAP	CEMENT CONC. DRIVEWAY ENTRANCE TYPE 3		CEMENT CONC. CURB RAMP TYPE PERPENDICULAR A	CEMENT CONC. CURB RAMP TYPE PERPENDICULAR B	CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION A		CEMENT CONC. CURB RAMP TYPE PARALLEL B	DETECTABLE WARNING S.F. SURFACE	COATED CHAIN LINK FENCE TYPE 3	COATED END, GATE, CORNER, PULLPOST FOR CHAIN LINK FENCE	DOUBLE 14 FT. COATED CHAIN LINK GATE	SEE GENERAL NOTES	GENERAL NOTES:
CODE	LOCATION & UNIT OF MEASURE	S.Y.	S.F.	S.Y.		EACH	EACH	EACH		EACH	S.F.	L.F.	EACH	EACH		
PV13-2	TRV 11+77.94 (4' RT) TO TRV 13+19.38 (4' RT)														2	26. SEE SPECIAL PROVISION FOR TEXTURED CEMENT CONCRETE PAVEMENT DETAIL. 27. SEE STD PLAN A-40.10-02 FOR CEMENT CONCRETE PAYMENT JOINTS DETAIL.
PV13-3	TRV 12+79.50 (4' LT) TO TRV 15+09.63 (4' LT)														2	
PV13-4	MLHV 11+47.80 (16.19' LT) TO MLHV 13+35.05 (12.00' LT)	200									380				2,14,15	
PV13-5	TRV 14+50.75 (6.05' LT) TO TRV 14+61.20 (6.51' LT)	9													15	
PV13-6	TRV 15+09.63 (4' LT) TO MRV 15+29.42 (4' LT)	17													15	
PV14-1	PARV 10+42.85 (5.62' RT) TO PARV 10+73.00 (0' RT)														4	
PV14-2	PARV 10+83+18 (36.21' LT) TO PARV 11+17.94 (26.84' LT)														2	
PV14-3	PARV 12+85.93 (9' LT) TO PARV 13+11.38 (14.06' LT)	18													15	
PV14-4	RAMV 18+86.04 (25.04' LT) TO RAMV 18+96.34 (23.64' LT)														3	
PV14-5	RAMV 18+86.04 (25.04' LT) TO RAMV 18+96.34 (23.64' LT)														18	
PV15-1	EPDV 10+13.29 (5' RT) TO EPDV 10+43.38 (5' RT)			20											2,13,14,16	
PV15-2	EPDV 10+19.71(20.86' LT) TO EPDV 10+71.01 (14.43' LT)						1								2,16,17	
PV15-3	EPDV 10+43.38 (5.50' RT) TO EPDV 10+98.95 (22.7' RT)														2	
PV15-4	EPDV 10+98.95 (22.7' RT) TO EPDV 11+03.95 (22.7' RT)										10				14	
PV15-5	EPDV 11+03.95 (22.7' RT) TO EPDV 13+20.02 (12.50' RT)														2	
PV15-6	EPDV 10+12.48 (6.05' LT) TO EPDV 13+27.28 (27.29' RT)	190													15	
PV15-7	EPDV 13+20.02 (12.5' RT) TO EPDV 13+32.28 (12.5' RT)							1							2,16,17	
PV15-8	EPDV 13+14.16 (12.57' LT) TO 13+28.80 (12.49' LT)							1							2,16,17	
PV15-9	EPDV 10+35.35 (37.49' LT) TO EPDV 10+62.50 (28.39' LT)	4													15	
PV15-10	RAMV 9+38.33 (11.06' LT) TO EPDV 11+13.74 (22.70' RT)														2	
PV15-11	EPDV 9+94.44 (5' RT) TO EPDV 10+13.30 (5.5' RT)														2	
PV15-12	EPDV 10+24.18 (9.50' RT)														21	
PV15-13	EPDV 10+29.04 (9.50' RT)														21	
PV15-14	EPDV 10+33.90 (9.50' RT)														21	
PV15-15	EPDV 13+09.14 (28.25' LT) TO EPDV 13+25.85 (30.89' LT)	7													15	
PV15	EPDV 9+94.44 (18.67' LT) TO EPDV 13+32.29 (12.75' LT)															
PV16-1	DXSV 10+83.48 (21.5' LT)										30				5,14,22	
PV16-2	DXNV 10+82.50 (18.9' RT)										30				5,14,22	
PV17-1	DXRV 12+63.17 (13.77' RT) TO DXRV 12+77.09 (17.07' RT)					1					8				6,14,17	
PV17-2	DXRV 12+67.09 (1' LT) TO DXRV 12+80.99 (1' LT)					1					8				6,14,17	
PV17-3	DXSV 11+47.22 (35.27' LT) TO DXSV 11+55.07 (23.73' LT)					1					8				6,14,17	
PV17-4	DXNV 11+97.21 (11.11' LT) TO DXNV 13+97.48 (12.86' LT)														11	
PV17-5	DXNV 12+97.48 (12.86' LT) TO DXNV 13+20.29 (12.86' LT)														5	
PV17-6	DXSV 12+91.02 (22.00' RT) TO DXSV 13+14.37 (22.00' RT)														5	
SHEET TOTAL		445		20		3	3				523					
PROJECT TOTAL		1391	1434	20		10	5	2		1	610					



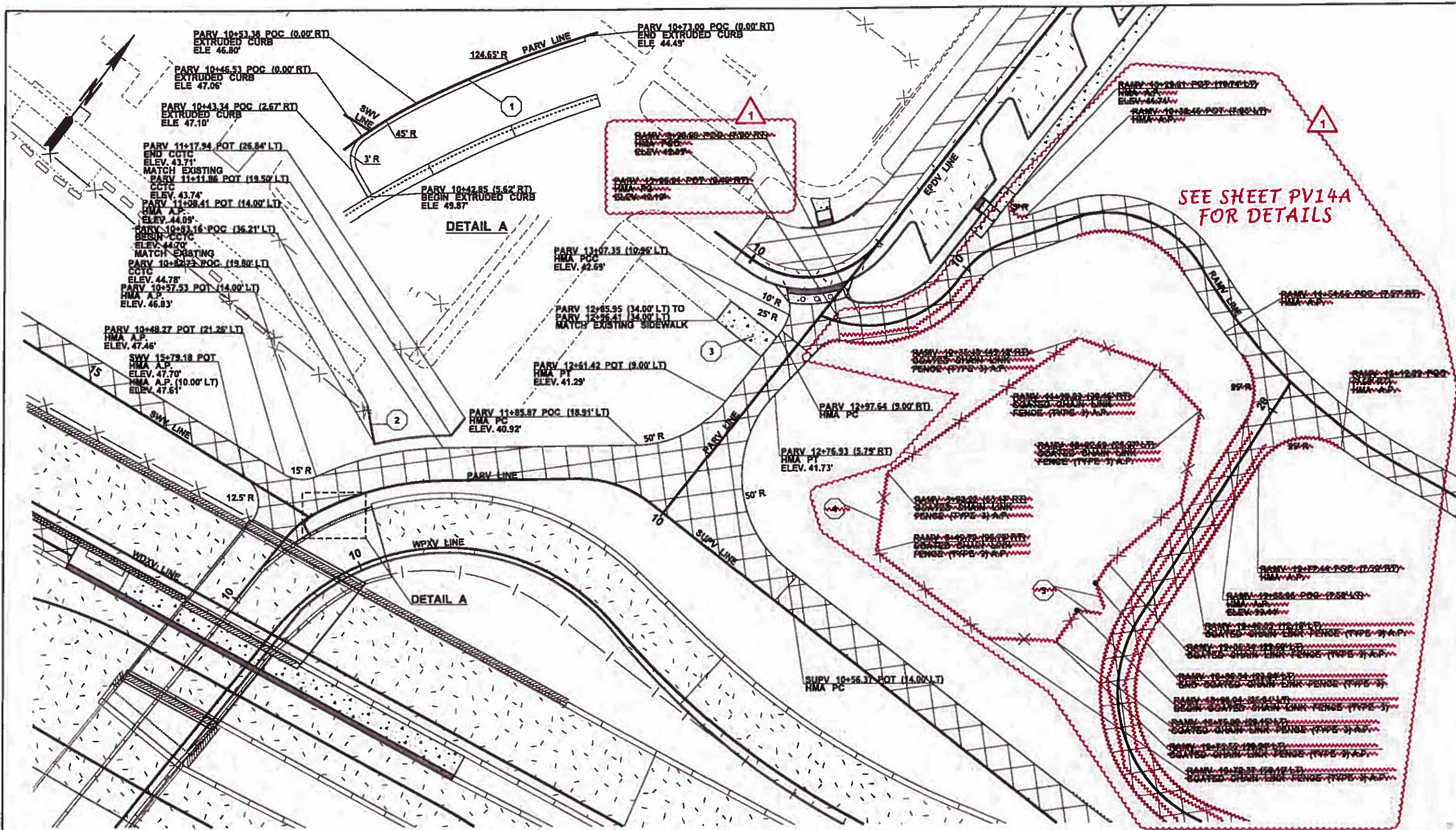
DESIGNED BY	C. LEE	REGION NO.	10	STATE	WASH	FED. AID PROJ. NO.	
ENTERED BY	C. LEE	JOB NUMBER	13A012				
CHECKED BY	P. MERRELL	CONTRACT NO.					
PROJ. ENGR.	D. EDWARDS	DATE	12/21/15	REVISION	1 CO#115 - DELETE FACILITY M		
REGION ADM.	J. MEREDITH	DATE	08/09/14	REVISION	AD4 - QUANTITY CHANGE		
				BY			

Washington State Department of Transportation

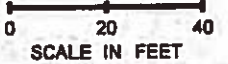
Contract 8625
Change Order #115
Page 53 of 72

QUANTITY TABULATION - PAVING

PVQ 15
SHEET 458 OF 1797 SHEETS

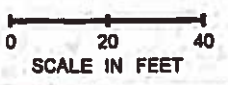
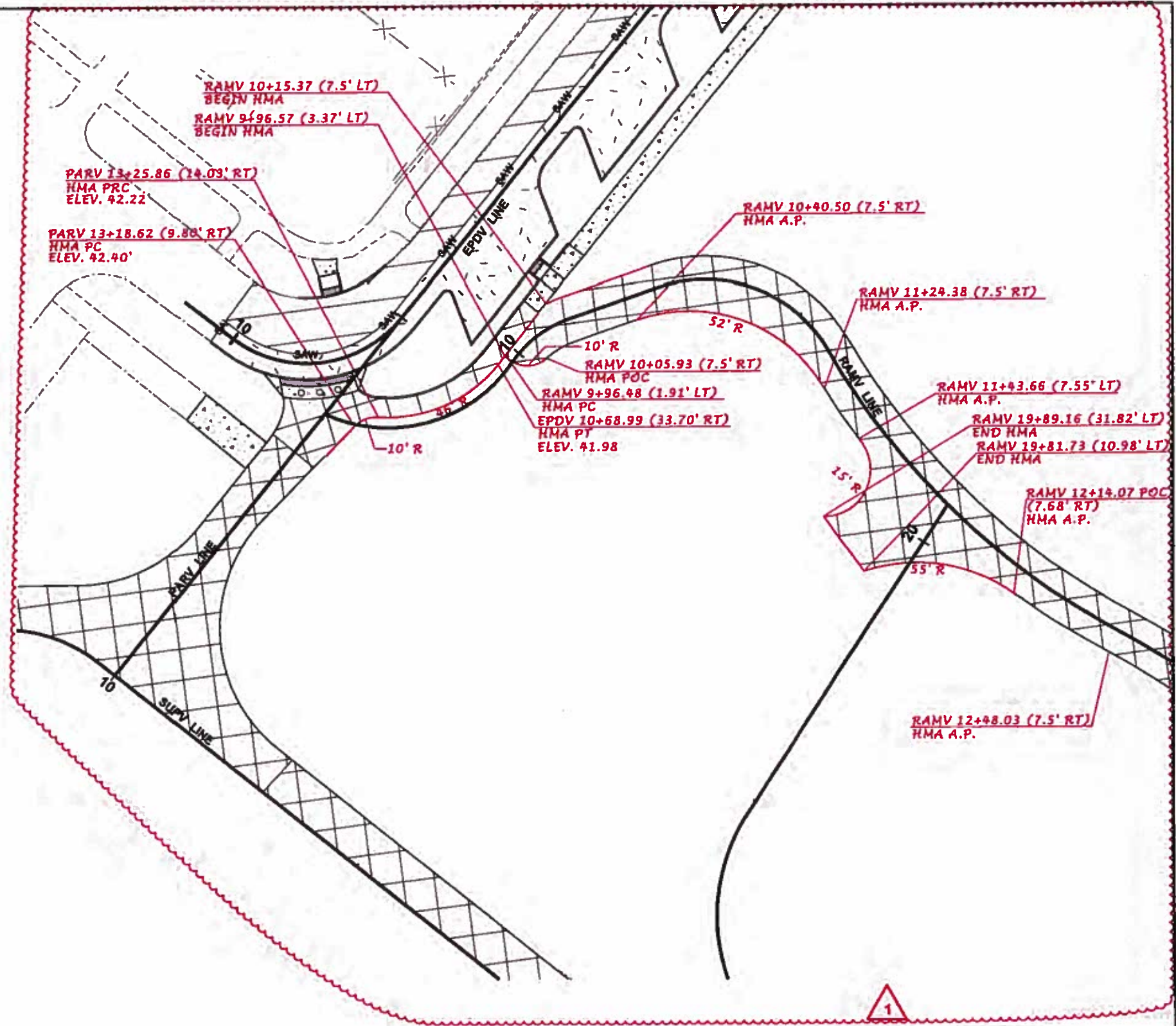


SEE SHEET PV14A FOR DETAILS



NOTES:
1. SEE SHEET PV00 FOR LEGEND AND GENERAL NOTES.

FILE NAME	TIME 12:27:30 PM	DATE 8/2/2016	PLOTTED BY schlec	DESIGNED BY K. PRIHAR	ENTERED BY S. SHARPE	CHECKED BY P. MERRELL	PROJ. ENGR. D. EDWARDS	REGIONAL ADM. J. MEREDITH	REVISION	12/8/2015	PW	DATE	BY	REGION NO. 10	STATE WASH	FED.AID PROJ.NO.	CONTRACT NO. 13A012	LOCATION NO.	HR ENGINEERING INC.	Professional Engineer Seal	Washington State Department of Transportation	Contract 8625 Change Order #115 Page 56 of 72	PLAN REF. NO. PV14	SHEET 474 OF 1797 SHEETS
<p>CO#115 - DELETE FACILITY M</p>										<p>12/8/2015</p>		<p>PW</p>		<p>DATE</p>		<p>BY</p>		<p>PARSONS BRINCKERHOFF</p>		<p>Parametrix</p>		<p>PAVING DETAILS</p>		



NOTES:
1. SEE SHEET PV00 FOR LEGEND AND GENERAL NOTES.

FILE NAME		REGION NO.		STATE		FED.AID PROJ.NO.					<div style="border: 1px solid red; padding: 5px; text-align: center;"> Contract 8625 Change Order #115 Page 57 of 72 </div>	PLAN REF. NO. PV14A
TIME	12:28:07 PM	10	WASH									
DATE	8/2/2016	JOB NUMBER		13A012		LOCATION NO.				SHEET 474 OF 1797 SHEETS		
PLOTTED BY	schicv	CONTRACT NO.								PAVING DETAILS		
DESIGNED BY	K. PRIHAR	REVISION		CO#115 - DELETE FACILITY M		12/8/2015		PW				
ENTERED BY	S. SHARPE	DATE						BY				
CHECKED BY	P. MERRELL											
PROJ. ENGR.	D. EDWARDS											
REGIONAL ADM.	J. MEREDITH											

SR 520
MONTLAKE TO EVERGREEN PT. BRIDGE
WEST APPROACH BRIDGE NORTH

MONTLAKE VICINITY RETAINING WALLS,
TRAFFIC ISLAND AND WALL MODIFICATIONS

BRIDGE SHEET NO.	SHEET TITLE
IWRO1	RETAINING WALL SHEET INDEX
WRO0	WALL KEY PLAN
WR01	WALL 1 LAYOUT
WR02	WALL 1 SCHEDULE
WR03	WALL 2 LAYOUT
WR04	WALL 3 LAYOUT
WR05	WALL 4 LAYOUT
WR06	WALL 5 LAYOUT
WR07	WALL 6 LAYOUT
WR08	WALL 7 LAYOUT
WR09	WALL 8 LAYOUT
WR10	WALL 9 LAYOUT 1
WR11	WALL 10 LAYOUT
WR12	SOLDIER PILE/TIEBACK WALL DETAILS 1 OF 2
WR13	SOLDIER PILE/TIEBACK WALL DETAILS 2 OF 2
WR14	SOLDIER PILE/TIEBACK WALL FASCIA PANEL DETAILS
WR15	SOLDIER PILE/TIEBACK WALL PERMANENT GROUND ANCHOR DETAILS
WR16	WALL 2 SECTION
WR17	WALL 3 SECTION
WR18	WALL 4 SECTION
WR19	WALL 5 SECTION
WR20	WALL 6 SECTION
WR21	WALL 7 SECTION
WR22	WALL 8 SECTION
WR23	WALL 9 SECTION 1
WR24	WALL 10 SECTION
WR25	CIP CONCRETE WALL SCHEDULE 1
WR26	CIP CONCRETE WALL SCHEDULE 2
WR27	STAIR DETAILS 1 OF 2
WR28	STAIR DETAILS 2 OF 2

BRIDGE SHEET NO.	SHEET TITLE
WR29	RETAINING BARRIERS A & B
WR30	RETAINING BARRIER C
WR31	RETAINING BARRIER D
WR32	LK. WA. BLVD. WALL MODIFICATION LAYOUT
WR33	LK. WA. BLVD. WALL MODIFICATION DETAILS 1 OF 2
WR34	LK. WA. BLVD. WALL MODIFICATION DETAILS 2 OF 2
WR35	MONTLAKE VICINITY KEY PLAN
WR36	TRAFFIC ISLAND PLAN
WR37	TRAFFIC ISLAND DETAILS 1 OF 3
WR38	TRAFFIC ISLAND DETAILS 2 OF 3
WR39	TRAFFIC ISLAND DETAILS 3 OF 3
WR40	RAILING VICINITY KEY PLAN
WR41	BRIDGE RAILING MOMENT SLAB ON GRADE
WR42	BRIDGE RAILING MOMENT SLAB ON WALL
WR43	BR. RAILING TYPE VERTICAL BAR PED. DETAILS 1 OF 2
WR44	BR. RAILING TYPE VERTICAL BAR PED. DETAILS 2 OF 2
WR45	BR. RAILING TYPE MOMENT SLAB PED. DETAILS
WR46	CABLE FENCE
WR47	TRAFFIC BARRIER DETAILS 1 OF 2
WR48	TRAFFIC BARRIER DETAILS 2 OF 2
WR49	LUMINAIRE ANCHORAGE DETAILS
WR50	LUMINAIRE BASE DETAILS
WR51	PEDESTRIAN PLATFORM DETAILS
WR52	POLE FOUNDATION DETAILS 1 OF 2
WR53	POLE FOUNDATION DETAILS 2 OF 2
WR54	GROUND IMPROVEMENT PLAN
WR55	GROUND IMPROVEMENT DETAILS 1 OF 2
WR56	GROUND IMPROVEMENT DETAILS 2 OF 2
WR57	GROUND IMPROVEMENT DETAILS 3 OF 3 1
WR58	GROUND IMPROVEMENT DETAILS 4 OF 4
WR59	PARALLEL CURB RAMP DETAILS
WR60	GUARDRAIL ATTACHMENT DETAILS

SR 520 FILE NO. 7051 SHEET IWRO1
 Projectwise Vault: V03

Bridge Design Engr.									
Supervisor	BOTT, P.			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
Designed By	JELLIN, A.			10	WASH		510	1797	
Checked By	AKESSON, B.			JOB NUMBER					
Detailed By	JELLIN, A.			13A012					
Bridge Projects Engr.									
Prelim. Plan By		12/11/15	CO#115 - DELETE FACILITY M	BA	GGK				
Architect/Specialist		DATE	REVISION	BY	APP'D				



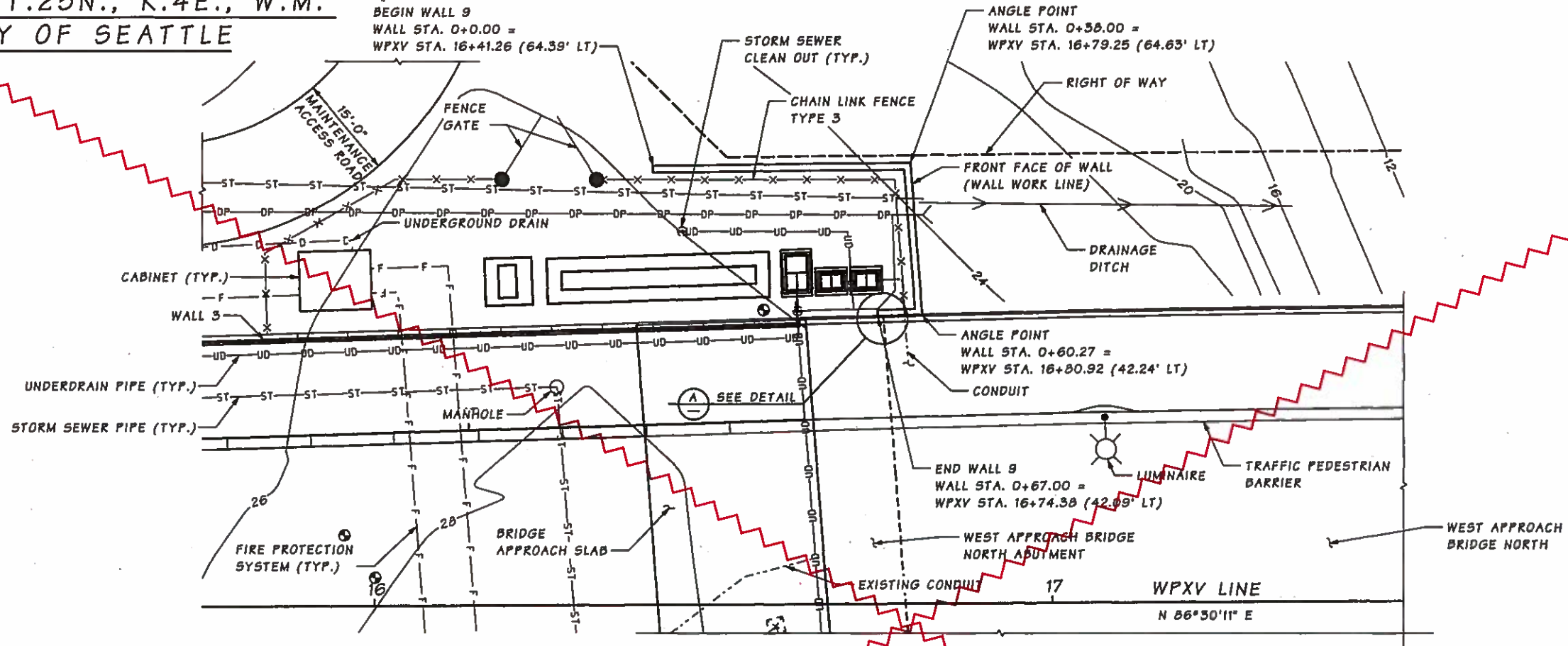
Contract 8625
 Change Order #115
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RETAINING WALL SHEET INDEX

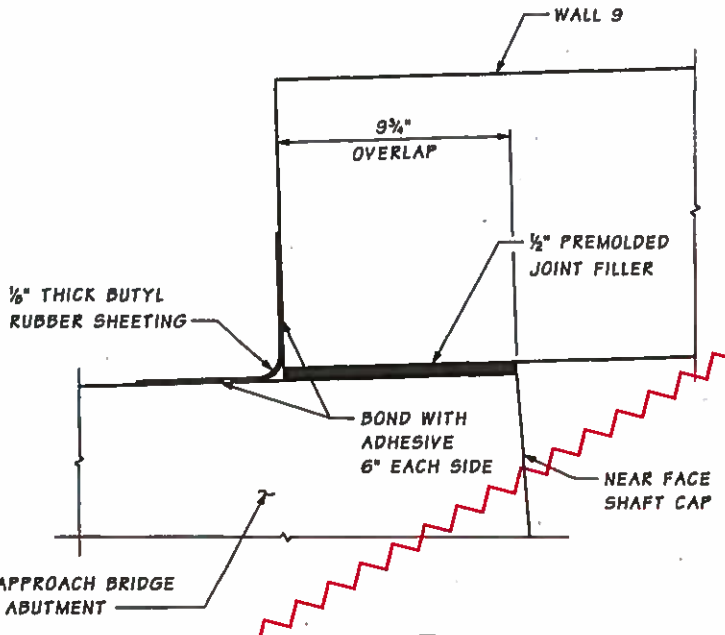
BRIDGE SHEET NO.
 IWRO1
 SHEET
 510
 OF
 1797
 SHEETS

SEC. 21, T.25N., R.4E., W.M.
CITY OF SEATTLE

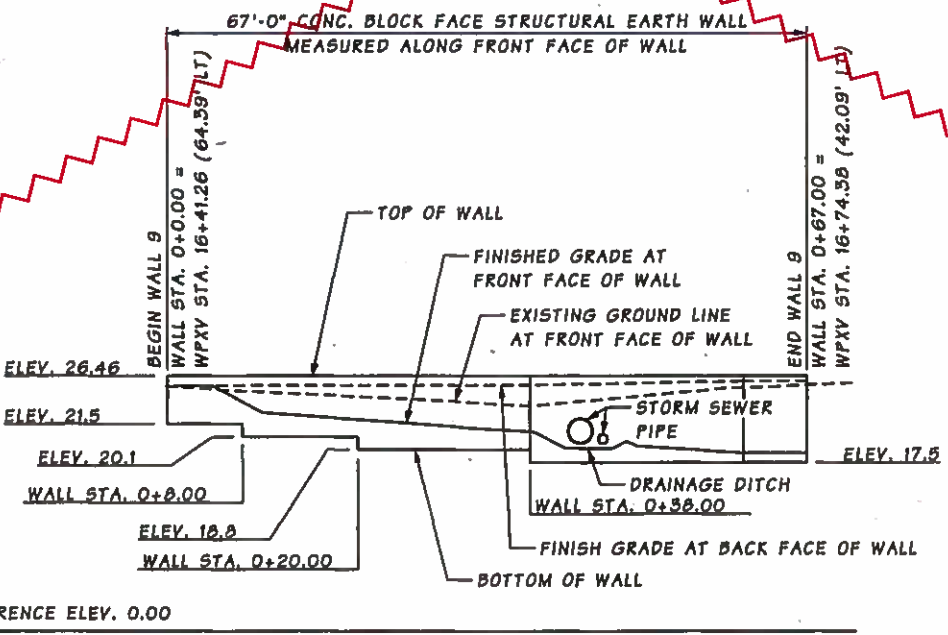
SR 520



PLAN
WALL 9



DETAIL A



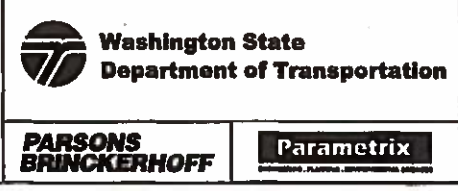
REFLECTED DEVELOPED ELEVATION
WALL 9

- NOTES:**
- FOR LOCATIONS AND DETAILS OF STORM SEWER PIPES, UNDERDRAIN PIPES, CATCH BASINS, CONCRETE INLETS, DRAIN PIPES, AND CONCRETE GUTTERS SEE DRAINAGE PLANS AND DETAILS.
 - FOR LUMINAIRE DETAILS SEE ILLUMINATION PLANS.
 - NOT ALL EXISTING UTILITIES ARE SHOWN. SEE EXISTING UTILITY PLANS.
 - SEE SHEET WR25 FOR WALL 9 TYPICAL SECTION.

SR 520 FILE NO. 7051 SHEET WR10 Projectwise Vault: WABN

DATUM
NXYD 1988

Bridge Design Engr.	PW:\CADD\Proj\Westside\CADD\PS&ES\sheet\WRI\WABN\PE2344_WABN_PS_WR_10.dgn		
Supervisor	BOTT, P.	REGION NO.	10
Designed By	JELLIN, A.	STATE	WASH
Checked By	AKESSON, B.	FED. AID PROJ. NO.	
Detailed By	JELLIN, A.	SHEET NO.	521
Bridge Projects Engr.		TOTAL SHEETS	1797
Prelim. Plan By	12/9/15	JOB NUMBER	15A012
Architect/Specialist	CO#115 - DELETE FACILITY M	DATE	
	REVISION	BY	APP'D

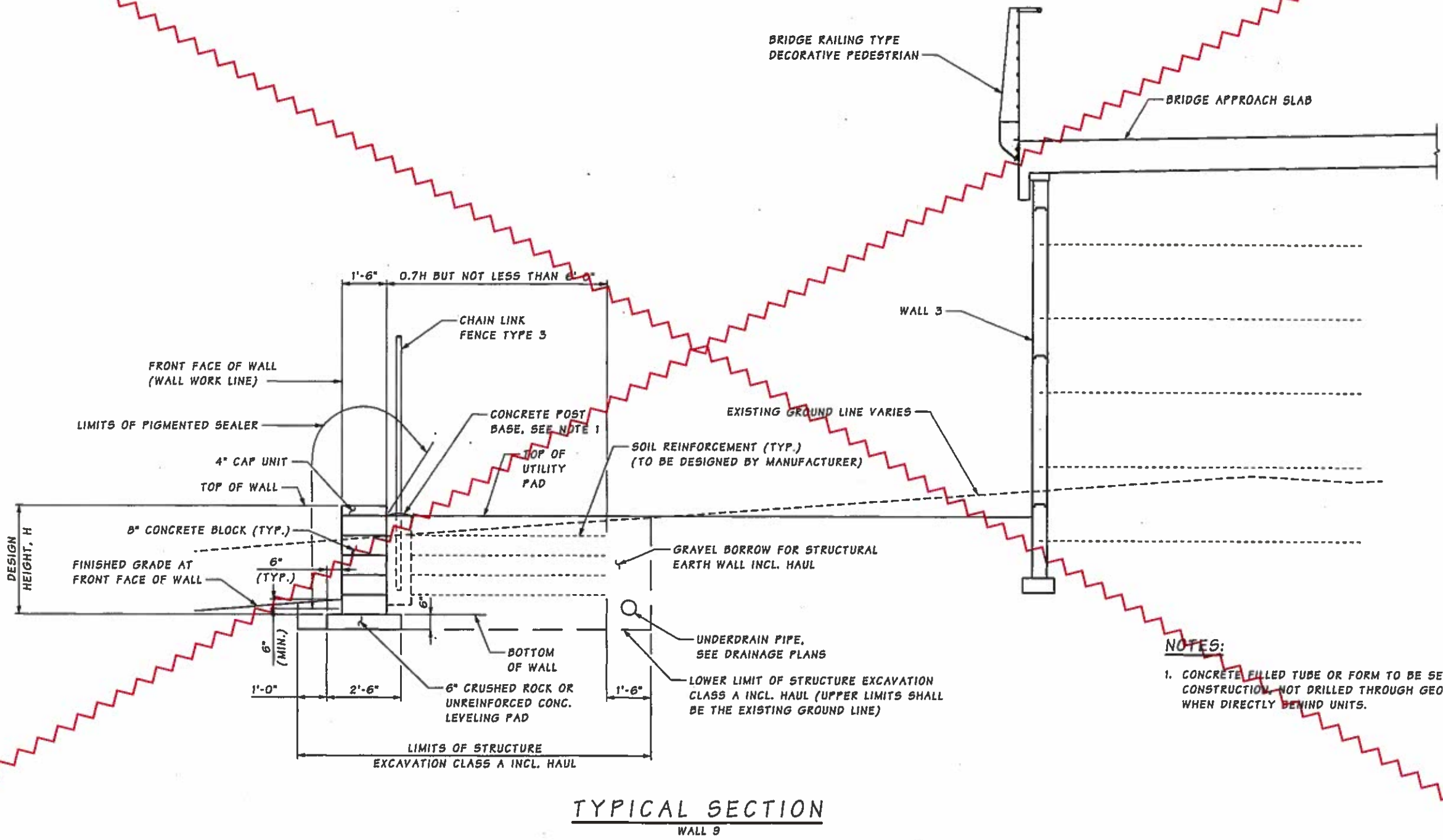


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Change Order #115
Page 60 of 72

BRIDGE SHEET NO. WR10
SHEET 521 OF 1797 SHEETS

WALL 9 LAYOUT

SR 520 FILE NO. 7051 SHEET WR23
ProjectWise Vault: WABN



NOTES:
1. CONCRETE FILLED TUBE OR FORM TO BE SET DURING WALL CONSTRUCTION. NOT DRILLED THROUGH GEOGRID AFTERWARDS WHEN DIRECTLY BEHIND UNITS.

TYPICAL SECTION
WALL 9

Bridge Design Engr.	PW\CADD\Proj\Wastide\CADD\PS&ESheets\WR\WABN\PE2344_WABN_DE_WR_23.dgn		
Supervisor	BOTT, P.	REGION NO.	10
Designed By	JELLIN, A.	STATE	WASH
Checked By	AKESSON, B.	FED. AID PROJ. NO.	
Detailed By	JELLIN, A.	JOB NUMBER	15A012
Bridge Projects Engr.		SHEET NO.	534
Prelim. Plan By	12/9/15	TOTAL SHEETS	1797
Architect/Specialist	DATE	REVISION	BY APP'D
		1	CO#115 - DELETE FACILITY M BA GJK



HDR
ENGINEERING INC.

4-8-14

Washington State
Department of Transportation

PARSONS BRINCKERHOFF

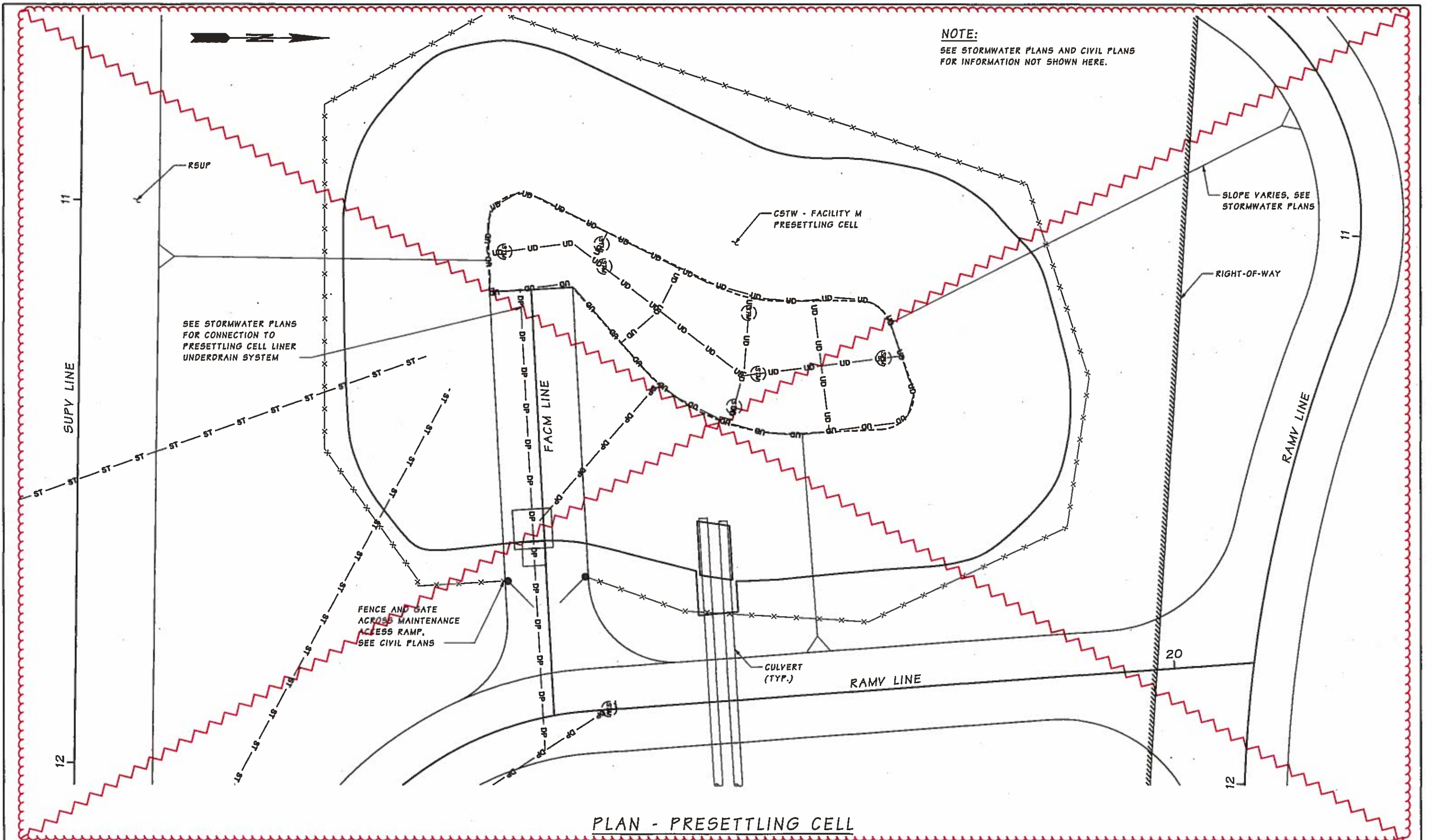
Parametrix

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Change Order #115
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WALL 9 SECTION

BRIDGE SHEET NO.
WR23
SHEET
534
OF
1797
SHEETS

SR 520 FILE NO. 7051 SHEET WR55
 Projectwise Vault: MABN



PLAN - PRESETTLING CELL

Bridge Design Engr.	PW:\CADD\Proj\Westside\CADD\PS&ESheets\WRI\WAS\NPE2344_WASH_DE_WR_68.dgn		
Supervisor	BOTT, P.	REGION NO.	10
Designed By	ZALLER, D.	STATE	WASH
Checked By	KNUTSON, G.	FED. AID PROJ. NO.	
Detailled By	VYPLEL, M.	SHEET NO.	566
Bridge Projects Engr.		TOTAL SHEETS	1797
Prelim. Plan By	12/9/15	JOB NUMBER	15A012
Arch/Recd./Specialist	DATE	REVISION	BY APPD
		1	CO#115 - DELETE FACILITY M BA GSK



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4-8-14

Washington State
 Department of Transportation

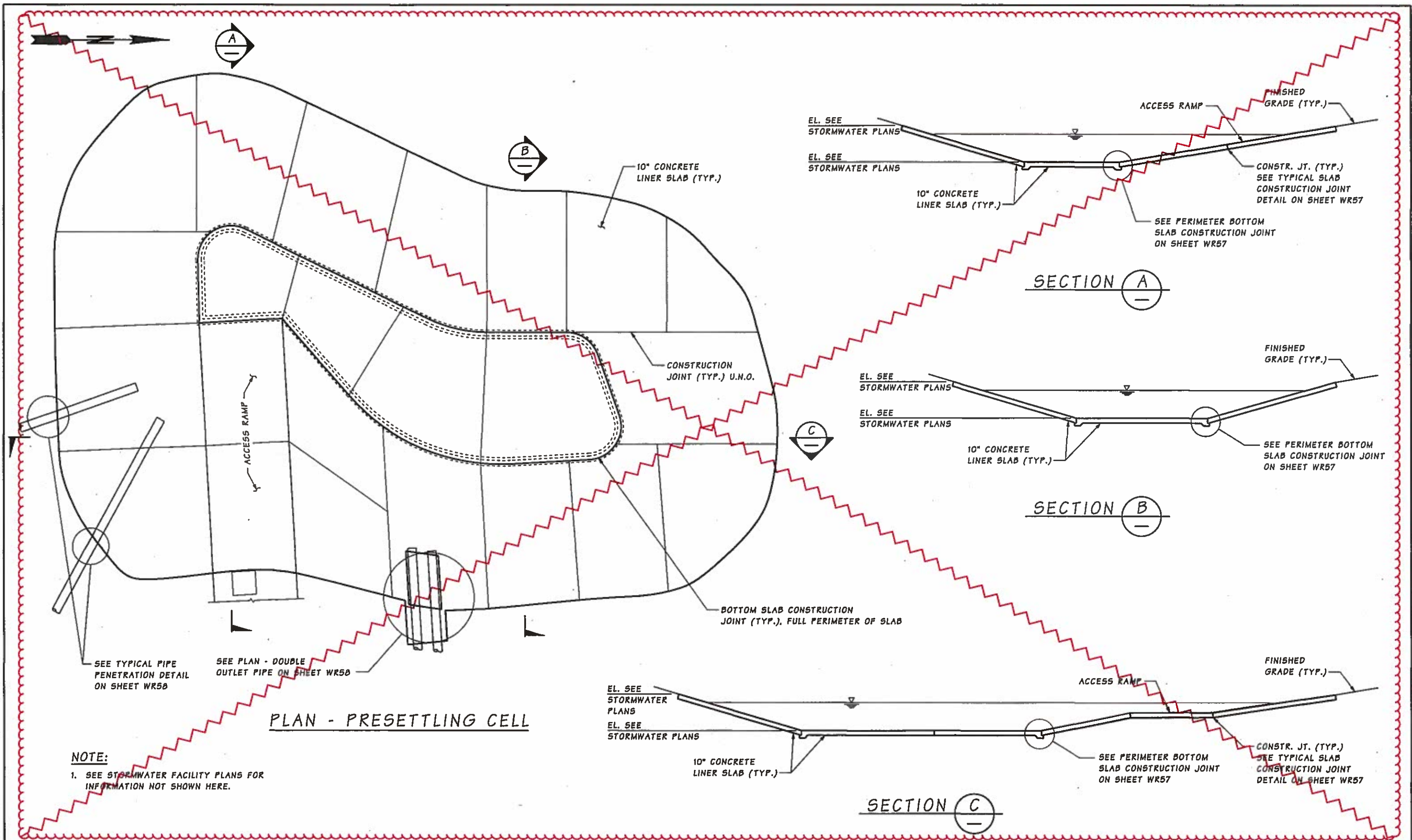
PARSONS
 BRINCKERHOFF

Parametrix

Contract 8625
 Change Order #115
 Page 62 of 72

PRESETTLING CELL
 DETAILS 1 OF 4

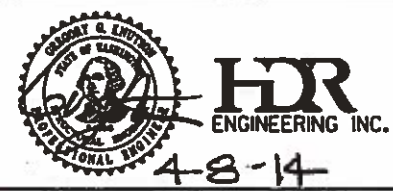
WR55
 SHEET
 566
 OF
 1797
 SHEETS



PLAN - PRESETTLING CELL

NOTE:
1. SEE STORMWATER FACILITY PLANS FOR INFORMATION NOT SHOWN HERE.

Bridge Design Engr.	PW:\CADD\Proj\Westside\CADD\PS&ESheets\WRWABN\PE2344_WABN_DE_WR_56.dgn		
Supervisor	BOTT, P.	REGION NO.	STATE
Designed By	ZÄHLLER, D.	10	WASH
Checked By	KNUTSON, G.	FED. AID PROJ. NO.	
Detailled By	VYPLEL, M.	JOB NUMBER	
Bridge Projects Engr.		567	1797
Prelim. Plan By	12/9/15	DATE	
Architect/Specialist	CO#115 - DELETE FACILITY M	BA	GK
	REVISION	BY	APP'D

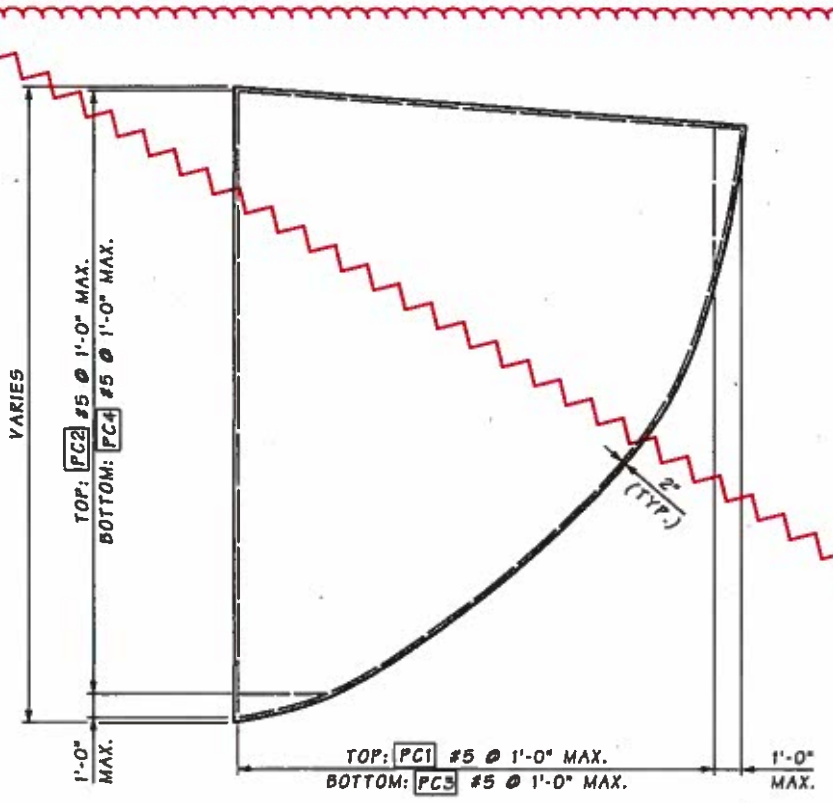


Contract 8625
Change Order #115
Page 63 of 72

PRESETTLING CELL
DETAILS 2 OF 4

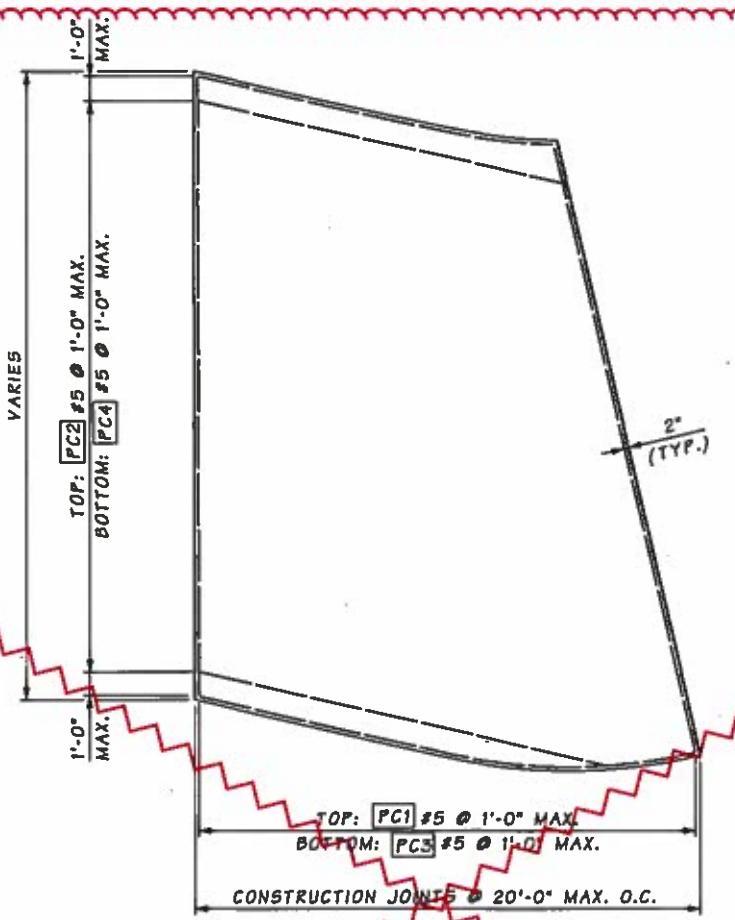
WR56
SHEET
567
OF
1797
SHEETS

SR 520 FILE NO. 7051 SHEET WR57
Projectwise Vout: WABN



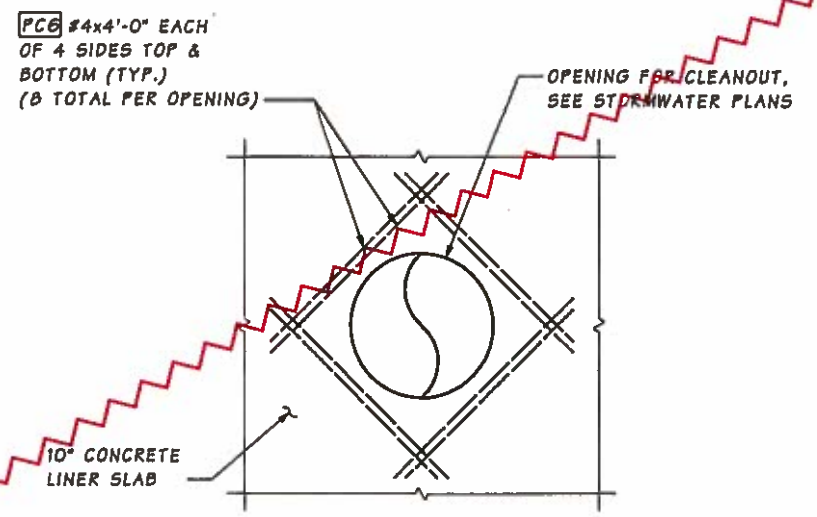
PLAN - 10" CONCRETE LINER CORNER SLAB

WATERSTOPS AND THICKENED CONCRETE SECTIONS AT PERIMETER BOTTOM SLAB CONSTRUCTION JOINTS (WHERE APPLICABLE) NOT SHOWN



PLAN - 10" CONCRETE LINER SLAB

WATERSTOPS AND THICKENED CONCRETE SECTIONS AT PERIMETER BOTTOM SLAB CONSTRUCTION JOINTS (WHERE APPLICABLE) NOT SHOWN



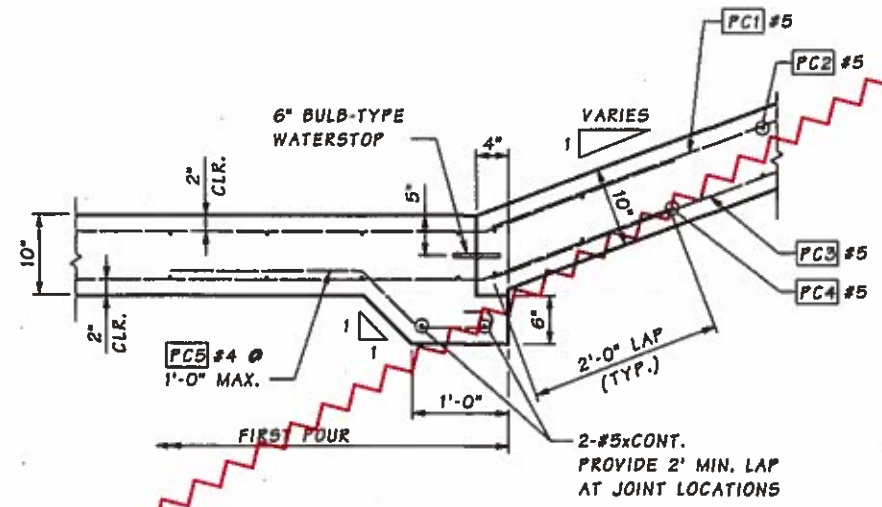
CLEANOUT PENETRATION DETAIL



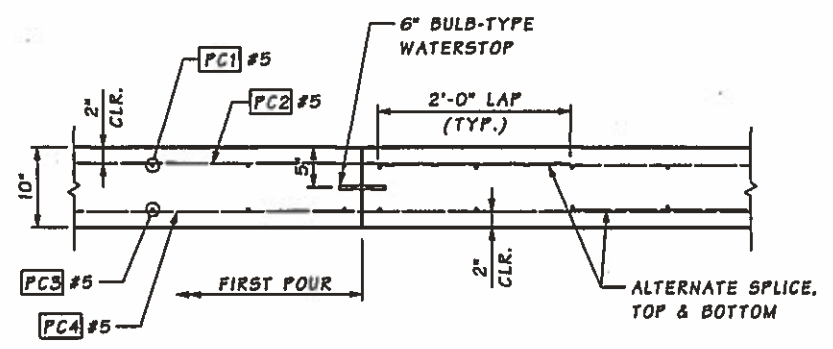
FLAT TEE FLAT CROSS FLAT ELL

WATERSTOP DETAIL

- NOTES:
- BULB TYPE WATERSTOPS SHALL BE HANDLED SIMILAR TO AS SHOWN WITH BULB JOINTS MITERED FOR FULL CONTINUITY OF HOLLOW BULB.
 - ONLY STRAIGHT BUTT JOINT WELDS ARE ALLOWED IN THE FIELD.



PERIMETER BOTTOM SLAB CONSTRUCTION JOINT



TYPICAL SLAB CONSTRUCTION JOINT

Bridge Design Engr.	PW:YACDDProf\Westside\CADD\PS&ESheets\WR\WABN\PE2344_WABN_DE_WR_57.dgn		
Supervisor	BOTT, P.	REGION NO.	10
Designed By	ZÄHLER, D.	STATE	WASH
Checked By	KNUTSON, G.	FED. AID PROJ. NO.	
Detalled By	VYPLEL, M.	SHEET NO.	566
Bridge Projects Engr.		TOTAL SHEETS	1797
Pratt. Plan By	12/9/15	JOB NUMBER	13A012
Architect/Specialist	CO#115 - DELETE FACILITY M	DATE	
	REVISION	BY	APPD



HDR
ENGINEERING INC.

4-8-14

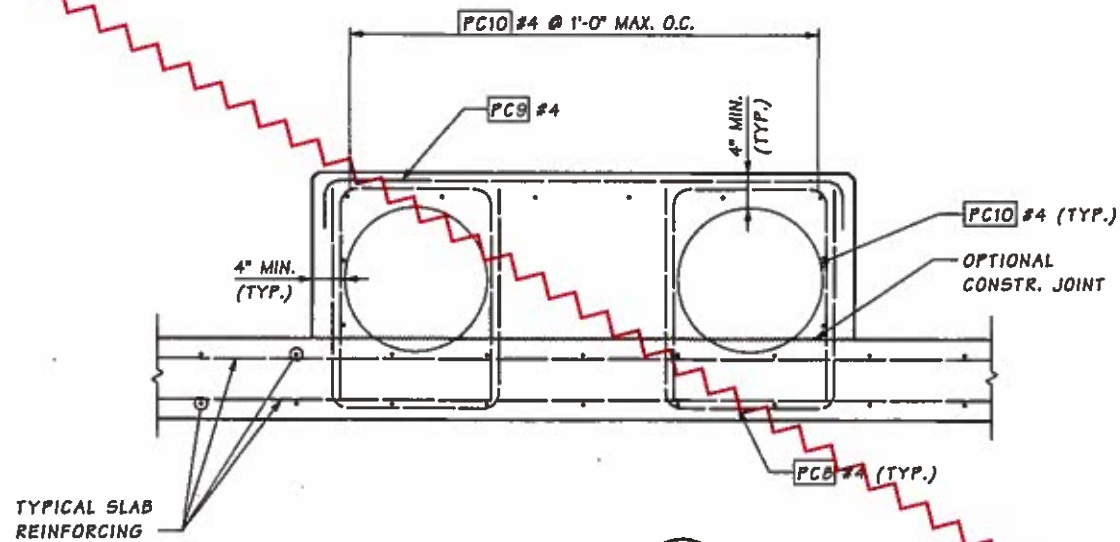
Washington State
Department of Transportation

PARSONS BRINCKERHOFF Paramatrix

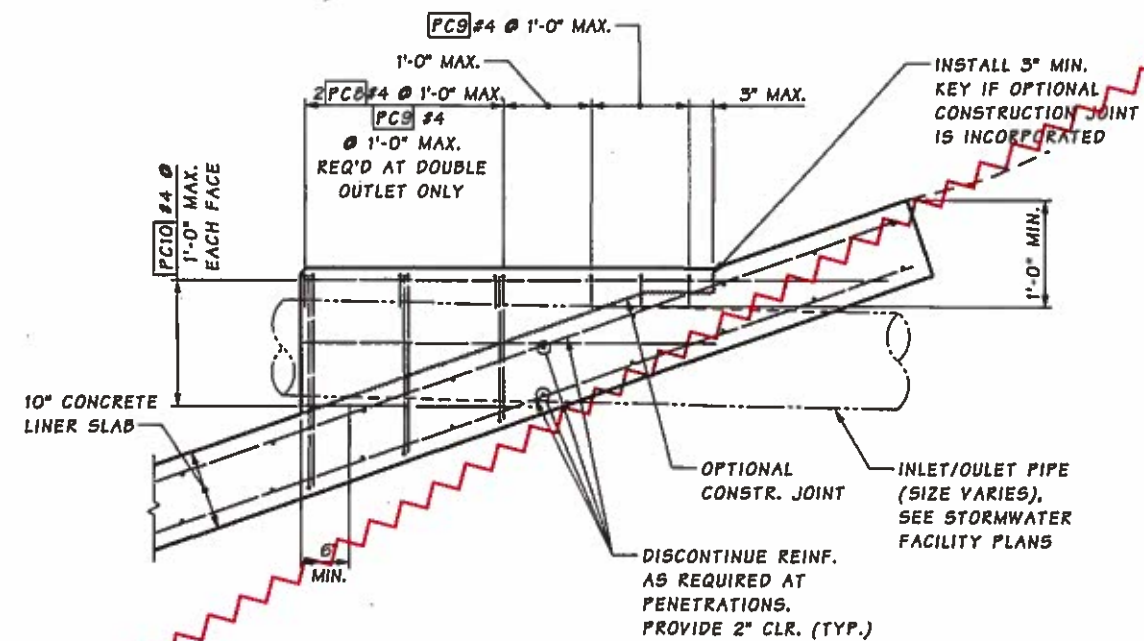
Contract 8625
Change Order #115
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PRESETTLING CELL
DETAILS 3 OF 4

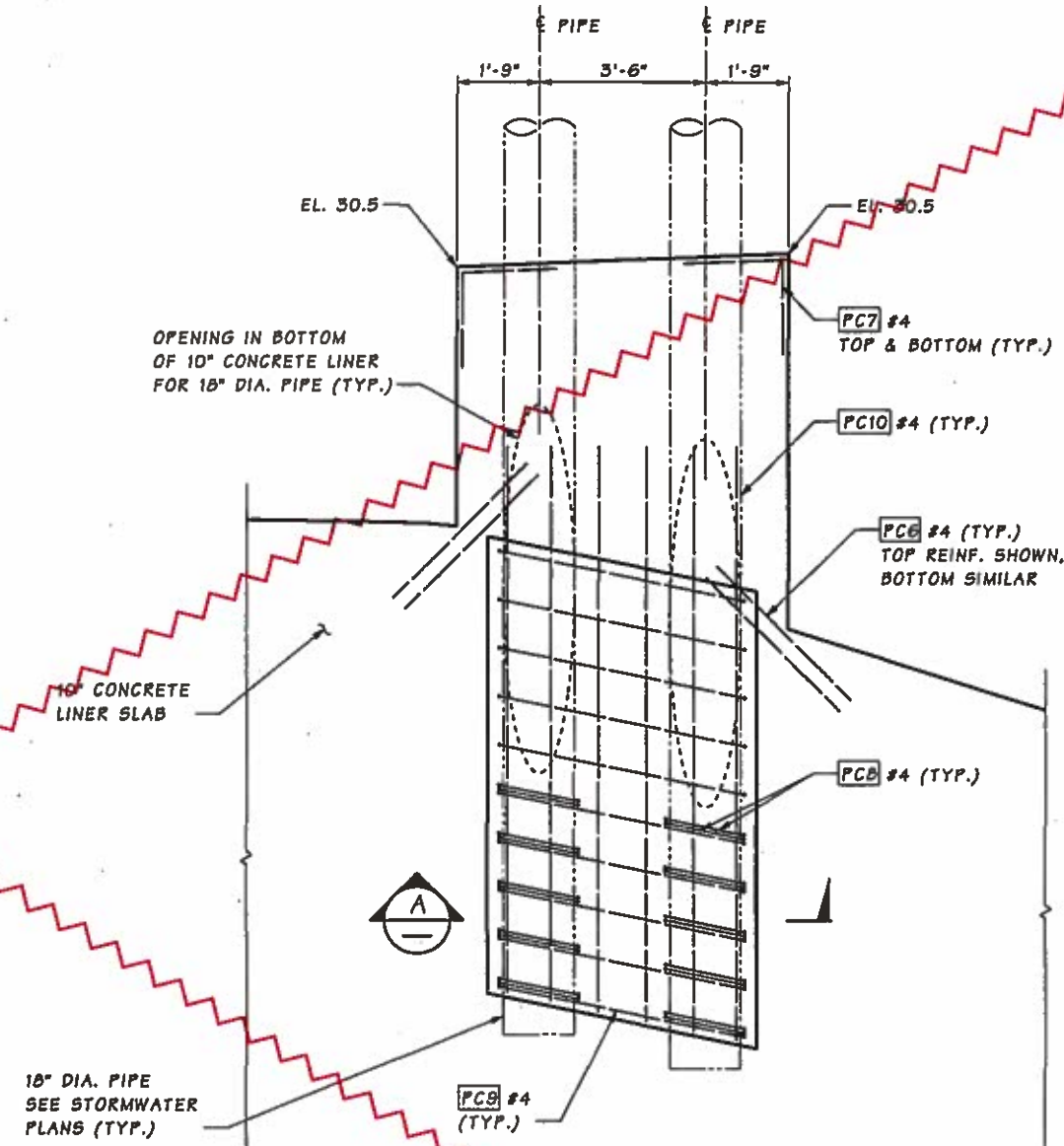
BRIDGE SHEET NO.
WR57
SHEET 568 OF 1797 SHEETS



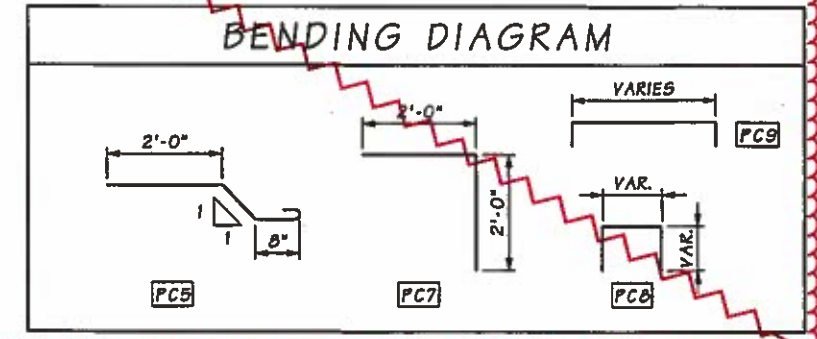
SECTION A



TYPICAL PIPE PENETRATION DETAIL

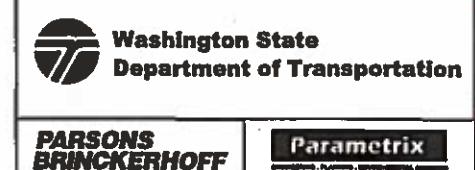


PLAN - DOUBLE OUTLET PIPE



BENDING DIAGRAM

Bridge Design Engr.	PW:\CADD\Proj\Westside\CADD\PS&ESheets\WRR\WASNP2344_WABN_DE_WR_58.dgn		
Supervisor	BOTT, P.	REGION NO.	10
Designed By	ZÄLLER, D.	STATE	WASH
Checked By	KNUTSON, G.	FED. AID PROJ. NO.	
Detailed By	VYPLEL, M.	SHEET NO.	569
Bridge Projects Engr.		TOTAL SHEETS	1797
Prelim. Plan By	12/9/15	JOB NUMBER	15A012
Architect/Consultant	1 CO#115 - DELETE FACILITY M	DATE	
	REVISION	BY	APPD





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Change Order #115
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PRESETTLING CELL
DETAILS 4 OF 4

BRIDGE SHEET NO.
WR58
SHEET 569 OF 1797 SHEETS

SHEET INDEX 5

WEST APPROACH BRIDGE - NORTH		
BRIDGE SHEET NO.	SHEET TITLE	VOLUME NO.
BA475	BRIDGE DECK REINFORCEMENT PLAN - PIER 28 BOTTOM MAT	8 OF 10
BA476	BRIDGE DECK REINFORCEMENT PLAN - PIER 28 TOP MAT	8 OF 10
BA477	BRIDGE DECK REINFORCEMENT PLAN - PIER 29 BOTTOM MAT	8 OF 10
BA478	BRIDGE DECK REINFORCEMENT PLAN - PIER 29 TOP MAT	8 OF 10
BA479	BRIDGE DECK REINFORCEMENT PLAN - PIER 30 BOTTOM MAT	8 OF 10
BA480	BRIDGE DECK REINFORCEMENT PLAN - PIER 30 TOP MAT	8 OF 10
BA481	BRIDGE DECK REINFORCEMENT PLAN - PIER 31 BOTTOM MAT	8 OF 10
BA482	BRIDGE DECK REINFORCEMENT PLAN - PIER 31 TOP MAT	8 OF 10
BA483	BRIDGE DECK REINFORCEMENT PLAN - PIER 32 BOTTOM MAT	8 OF 10
BA484	BRIDGE DECK REINFORCEMENT PLAN - PIER 32 TOP MAT	8 OF 10
BA485	BRIDGE DECK REINFORCEMENT PLAN - PIER 33 BOTTOM MAT	8 OF 10
BA486	BRIDGE DECK REINFORCEMENT PLAN - PIER 33 TOP MAT	8 OF 10
BA487	BRIDGE DECK REINFORCEMENT PLAN - PIER 34 BOTTOM MAT	8 OF 10
BA488	BRIDGE DECK REINFORCEMENT PLAN - PIER 34 TOP MAT	8 OF 10
BA489	BRIDGE DECK REINFORCEMENT PLAN - PIER 35 BOTTOM MAT	8 OF 10
BA490	BRIDGE DECK REINFORCEMENT PLAN - PIER 35 TOP MAT	8 OF 10
BA491	BRIDGE DECK REINFORCEMENT PLAN - PIER 36 BOTTOM MAT	8 OF 10
BA492	BRIDGE DECK REINFORCEMENT PLAN - PIER 36 TOP MAT	8 OF 10
BA493	BRIDGE DECK REINFORCEMENT PLAN - PIER 37 BOTTOM MAT	8 OF 10
BA494	BRIDGE DECK REINFORCEMENT PLAN - PIER 37 TOP MAT	8 OF 10
BA495	BRIDGE DECK REINFORCEMENT PLAN - PIER 38 BOTTOM MAT	8 OF 10
BA496	BRIDGE DECK REINFORCEMENT PLAN - PIER 38 TOP MAT	8 OF 10
BA497	BRIDGE DECK REINFORCEMENT PLAN - PIER 39 BOTTOM MAT	8 OF 10
BA498	BRIDGE DECK REINFORCEMENT PLAN - PIER 39 TOP MAT	8 OF 10
BA499	BRIDGE DECK REINFORCEMENT PLAN - PIER 40 BOTTOM MAT	8 OF 10
BA500	BRIDGE DECK REINFORCEMENT PLAN - PIER 40 TOP MAT	8 OF 10
BA501	BRIDGE DECK REINFORCEMENT PLAN - SPAN 40 BOTTOM MAT	8 OF 10
BA502	BRIDGE DECK REINFORCEMENT PLAN - SPAN 40 TOP MAT	8 OF 10
BA503	BRIDGE DECK REINFORCEMENT SECTION - SPANS 18 THRU 40	8 OF 10
BA504	BRIDGE DECK REINFORCEMENT PLAN - SPAN 41 BOTTOM MAT	8 OF 10
BA505	BRIDGE DECK REINFORCEMENT PLAN - SPAN 41 TOP MAT	8 OF 10
BA506	BRIDGE DECK REINFORCEMENT SECTION - SPAN 41	8 OF 10
BA507	PIER 42 VICINITY PLAN	8 OF 10
BA508	BRIDGE DECK REINF. PLANS - TRANSITION SPAN	8 OF 10
BA509	BRIDGE DECK REINF. SECTIONS - TRANSITION SPAN	8 OF 10
BA510	BRIDGE DECK REINF. DETAILS - TRANSITION SPAN	8 OF 10
BA511	BRIDGE DECK REINFORCEMENT DETAILS - AT DRAINS 1	8 OF 10
BA512	BRIDGE DECK REINFORCEMENT DETAILS - AT DRAINS 2	8 OF 10
BA513	BRIDGE DECK REINFORCEMENT DETAILS - AT DRAINS 3	8 OF 10
BA514	BRIDGE DECK REINFORCEMENT DETAILS - AT DRAINS 4	8 OF 10

WEST APPROACH BRIDGE - NORTH		
BRIDGE SHEET NO.	SHEET TITLE	VOLUME NO.
BA515	BRIDGE DECK REINFORCEMENT DETAILS - AT CLEANOUTS 1	8 OF 10
BA516	BRIDGE DECK REINFORCEMENT DETAILS - AT CLEANOUTS 2	8 OF 10
BA517	BRIDGE DECK REINFORCEMENT DETAILS - AT CLEANOUTS 3	8 OF 10
BA518	CATCH BASINS - DETAILS 1	8 OF 10
BA519	CATCH BASINS - DETAILS 2	8 OF 10
BA520	BRIDGE DECK REINFORCEMENT DETAILS - AT CATCH BASINS 1	8 OF 10
BA521	BRIDGE DECK REINFORCEMENT DETAILS - AT CATCH BASINS 2	8 OF 10
BA522	CATCH BASINS - DETAILS 3	8 OF 10
BA523	CATCH BASINS - DETAILS 4	8 OF 10
BA524	BRIDGE DECK REINFORCEMENT DETAILS - AT CATCH BASINS 3	8 OF 10
BA525	BRIDGE DECK REINFORCEMENT DETAILS - AT CATCH BASINS 4	8 OF 10
BA526	MODULAR EXPANSION JOINT - ELEVATIONS 1	9 OF 10
BA527	MODULAR EXPANSION JOINT - ELEVATIONS 2	9 OF 10
BA528	MODULAR EXPANSION JOINT PLAN - PIER 1	9 OF 10
BA529	MODULAR EXPANSION JOINT SECTION - PIER 1	9 OF 10
BA530	MODULAR EXPANSION JOINT PLAN - PIER 9	9 OF 10
BA531	MODULAR EXPANSION JOINT PLAN - PIERS 18, 27, 34	9 OF 10
BA532	MODULAR EXPANSION JOINT SECTION - PIERS 9, 18, 27, 34	9 OF 10
BA533	MODULAR EXPANSION JOINT PLAN - PIER 41	9 OF 10
BA534	MODULAR EXPANSION JOINT SECTION - PIER 41	9 OF 10
BA535	MODULAR EXPANSION JOINT PLAN - PIER 42	9 OF 10
BA536	MODULAR EXPANSION JOINT SECTION - PIER 42	9 OF 10
BA537	MODULAR EXPANSION JOINT DETAILS 1	9 OF 10
BA538	MODULAR EXPANSION JOINT DETAILS 2	9 OF 10
BA539	MODULAR EXPANSION JOINT PLAN - RSUP COVER PLATE	9 OF 10
BA540	SEISMIC RESTRAINER DETAILS 1	9 OF 10
BA541	SEISMIC RESTRAINER DETAILS 2	9 OF 10
BA542	ELASTOMERIC PAD DETAILS 1	9 OF 10
BA543	BARRIER PLAN	9 OF 10
BA544	BARRIER SCUPPER  	9 OF 10
BA545	TRAFFIC PEDESTRIAN BARRIER - DETAILS 1 OF 4	9 OF 10
BA546	TRAFFIC PEDESTRIAN BARRIER - DETAILS 2 OF 4	9 OF 10
BA547	TRAFFIC PEDESTRIAN BARRIER - DETAILS 3 OF 4	9 OF 10
BA548	TRAFFIC PEDESTRIAN BARRIER - DETAILS 4 OF 4	9 OF 10
BA549	TRAFFIC BARRIER - DETAILS 1 OF 4	9 OF 10
BA550	TRAFFIC BARRIER - DETAILS 2 OF 4	9 OF 10
BA551	TRAFFIC BARRIER - DETAILS 3 OF 4	9 OF 10
BA552	TRAFFIC BARRIER - DETAILS 4 OF 4	9 OF 10
BA553	MEDIAN TRAFFIC BARRIER - DETAILS 1 OF 2	9 OF 10
BA554	MEDIAN TRAFFIC BARRIER - DETAILS 2 OF 2	9 OF 10

WEST APPROACH BRIDGE - NORTH		
BRIDGE SHEET NO.	SHEET TITLE	VOLUME NO.
BA555	BARRIER DETAILS 1 - JUNCTION BOX LOCATIONS	9 OF 10
BA556	BARRIER DETAILS 2 - BARRIER ELEVATIONS	9 OF 10
BA557	HOSE OUTLET DETAILS - TRAFFIC PEDESTRIAN BARRIER	9 OF 10
BA558	HOSE OUTLET DETAILS - TRAFFIC BARRIER	9 OF 10
BA559	LUMINARE BASE DETAILS - TRAFFIC PEDESTRIAN BARRIER	9 OF 10
BA560	LUMINARE ATTACHMENT DETAILS - TRAFFIC BARRIER	9 OF 10
BA561	CCTV CAMERA ATTACHMENT DETAILS - TRAFFIC BARRIER	9 OF 10
BA562	BARRIER EXPANSION JOINT DETAILS 1	9 OF 10
BA563	BARRIER EXPANSION JOINT DETAILS 2	9 OF 10
BA564	BARRIER EXPANSION JOINT DETAILS 3	9 OF 10
BA565	BARRIER EXPANSION JOINT DETAILS 4	9 OF 10
BA566	BARRIER EXPANSION JOINT DETAILS 5	9 OF 10
BA567	BR. RAILING TYPE DECORATIVE PED. - TYPICAL DETAILS 1	9 OF 10
BA568	BR. RAILING TYPE DECORATIVE PED. - TYPICAL DETAILS 2	9 OF 10
BA569	BR. RAILING TYPE DECORATIVE PED. - TYPICAL DETAILS 3	9 OF 10
BA570	BR. RAILING TYPE DECORATIVE PED. - PIER 1 DETAILS	9 OF 10
BA571	BR. RAILING TYPE DECORATIVE PED. - PIERS 9, 18, 27, 34 DETAILS	9 OF 10
BA572	BR. RAILING TYPE DECORATIVE PED. - PIER 41 DETAILS	9 OF 10
BA573	BR. RAILING TYPE DECORATIVE PED. - PIER 42 DETAILS	9 OF 10
BA574	BR. RAILING TYPE DECORATIVE PED. - EXPANSION DETAILS	9 OF 10
BA575	BR. RAILING TYPE DECORATIVE PED. - BELVEDERE DETAILS 1	9 OF 10
BA576	BR. RAILING TYPE DECORATIVE PED. - BELVEDERE DETAILS 2	9 OF 10
BA577	BR. RAILING TYPE DECORATIVE PED. - BELVEDERE DETAILS 3	9 OF 10
BA578	SIGN BRIDGE GENERAL NOTES	9 OF 10
BA579	SIGN BRIDGE LAYOUT 1	9 OF 10
BA580	SIGN BRIDGE LAYOUT 2	9 OF 10
BA581	SIGN BRIDGE LAYOUT 3	9 OF 10
BA582	SIGN BRIDGE LAYOUT 4	9 OF 10
BA583	SIGN BRIDGE LAYOUT 5	9 OF 10
BA584	SIGN BRIDGE LAYOUT 6	9 OF 10
BA585	SIGN BRIDGE LAYOUT 7	9 OF 10
BA586	SIGN BRIDGE MONOTUBE SCHEDULE	9 OF 10
BA587	SIGN BRIDGE DETAILS 1	9 OF 10
BA588	SIGN BRIDGE DETAILS 2	9 OF 10
BA589	SIGN BRIDGE DETAILS 3	9 OF 10
BA590	SIGN BRIDGE SUPPORT DETAILS 1	9 OF 10
BA591	SIGN BRIDGE SUPPORT DETAILS 2	9 OF 10
BA592	SIGN MOUNTING AT EXISTING TRUSS - DETAILS 1	9 OF 10
BA593	BRIDGE DRAINAGE SYSTEM LAYOUT - FRAME 1	9 OF 10
BA594	BRIDGE DRAINAGE SYSTEM LAYOUT - FRAME 2	9 OF 10

SR 520 FILE NO. 7051 SHEET IBA05
Projectwise Vault: V06

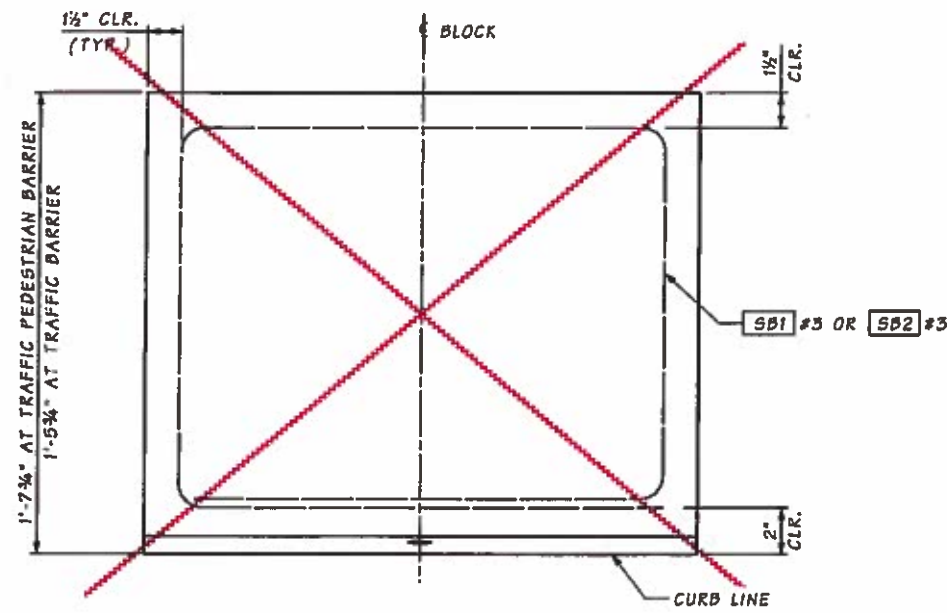
Bridge Design Engr.									
Supervisor									
Designed By									
Checked By									
Detailed By									
Bridge Projects Engr.									
Prelim. Plan By	12/11/15	△ COW115 - DELETE FACILITY M	BA	GGK					
Architect/Specialist	DATE	REVISION	BY	APP'D					

REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	WASH		929	1797

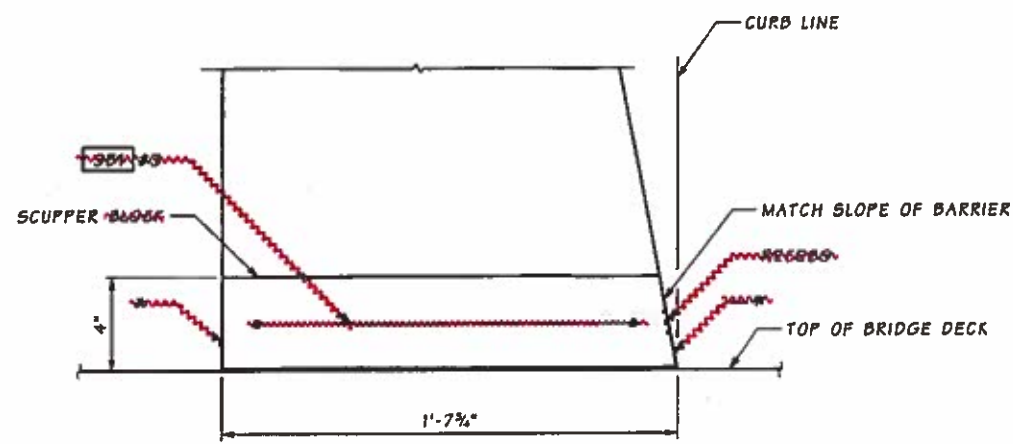


<p>Contract 8625 Change Order #115 Page 66 of 72</p>
<p>WABN STRUCTURAL SHEET INDEX 5</p>

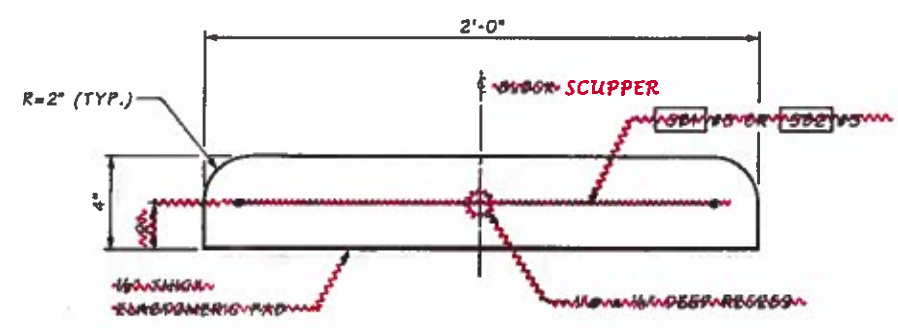
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SHEET NO.	929
OF	1797
SHEETS	



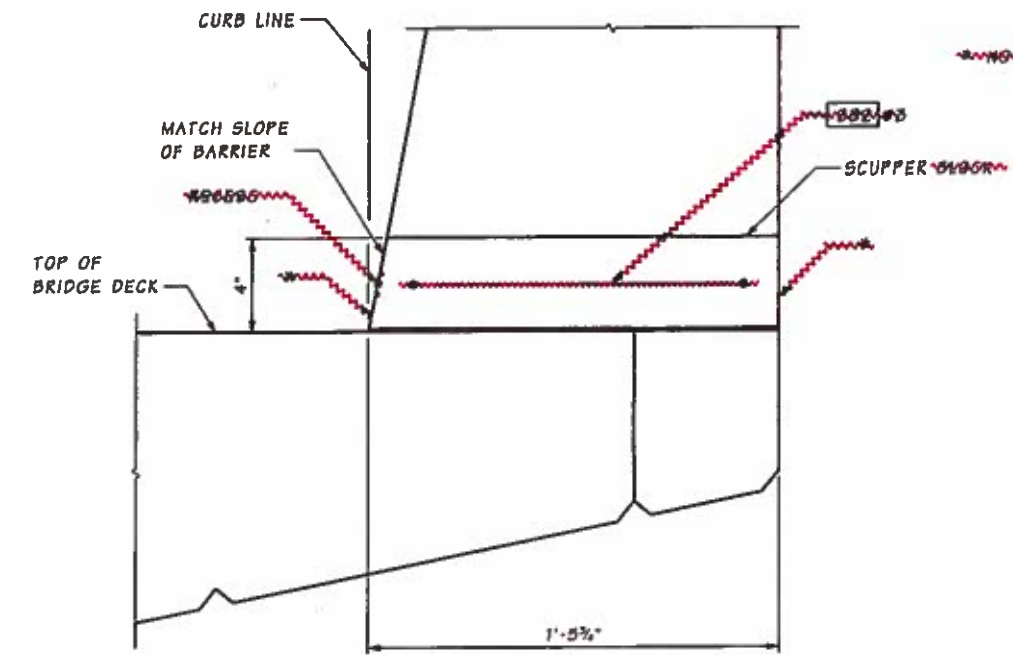
~~PLAN SCUPPER BLOCK~~



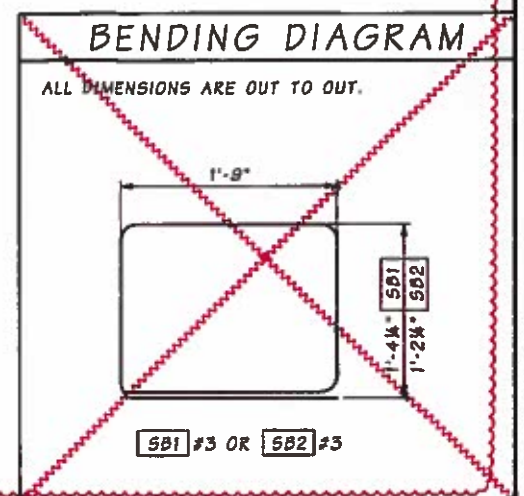
TYPICAL SECTION AT TRAFFIC PEDESTRIAN BARRIER



ELEVATION - SCUPPER BLOCK



TYPICAL SECTION AT TRAFFIC BARRIER



NOTES:

- 1. SCUPPER BLOCKS SHALL BE MADE WITH COMMERCIAL CONCRETE AND SHALL BE DENSE, HOMOGENEOUS AND WATER TIGHT. SCUPPER BLOCKS SHALL STAY IN PLACE DURING BARRIER CONCRETE PLACEMENT.
- 2. PROVIDE EPOXY BOND BREAKER ON ALL FACES OF BLOCKS UNLESS NOTED OTHERWISE.
- 3. BOND ELASTOMERIC PAD TO SCUPPER BLOCK WITH APPROVED RESINIVE.
- 4. ELASTOMERIC PAD SHALL BE MODULUS 100 PSI.
- 5. BRIDGE DECK SHALL BE TROWELED SMOOTH UNDER SCUPPERS BLOCKS.



SR 520 FILE NO. 7051 SHEET BA544 ProjectWise V0111 V09

Bridge Design Engr.								
Supervisor	BOTT, P.							
Designed By	AKESSON, B.							
Checked By	CHEN, G.							
Detailled By	VYPLEL, M.							
Bridge Projects Engr.								
Proj. Plan By	12/11/15	CO#115 - DELETE FACILITY M	BA	GKK				
Architect/Specialist	DATE	REVISION	BY	APPD				

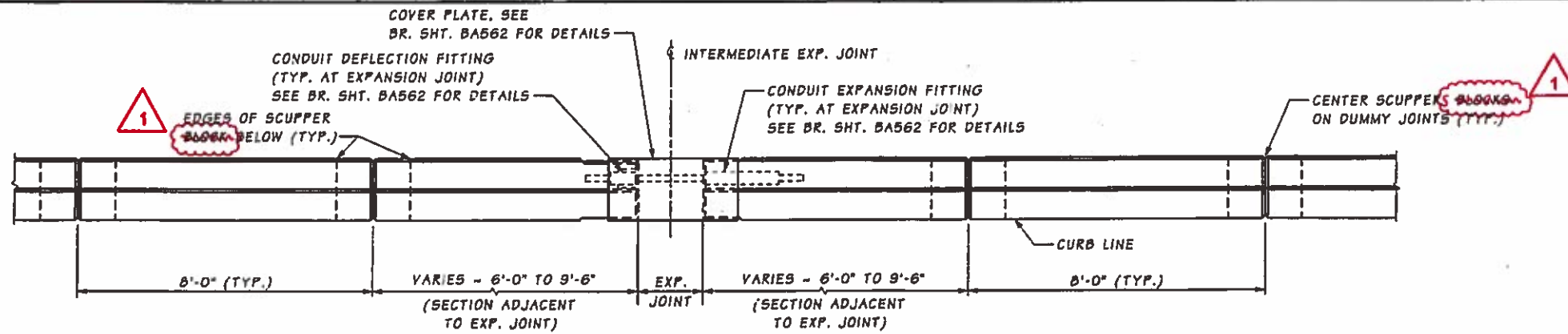


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8-5-16

Washington State
Department of Transportation
PARSONS BRINCKERHOFF
Parametrix

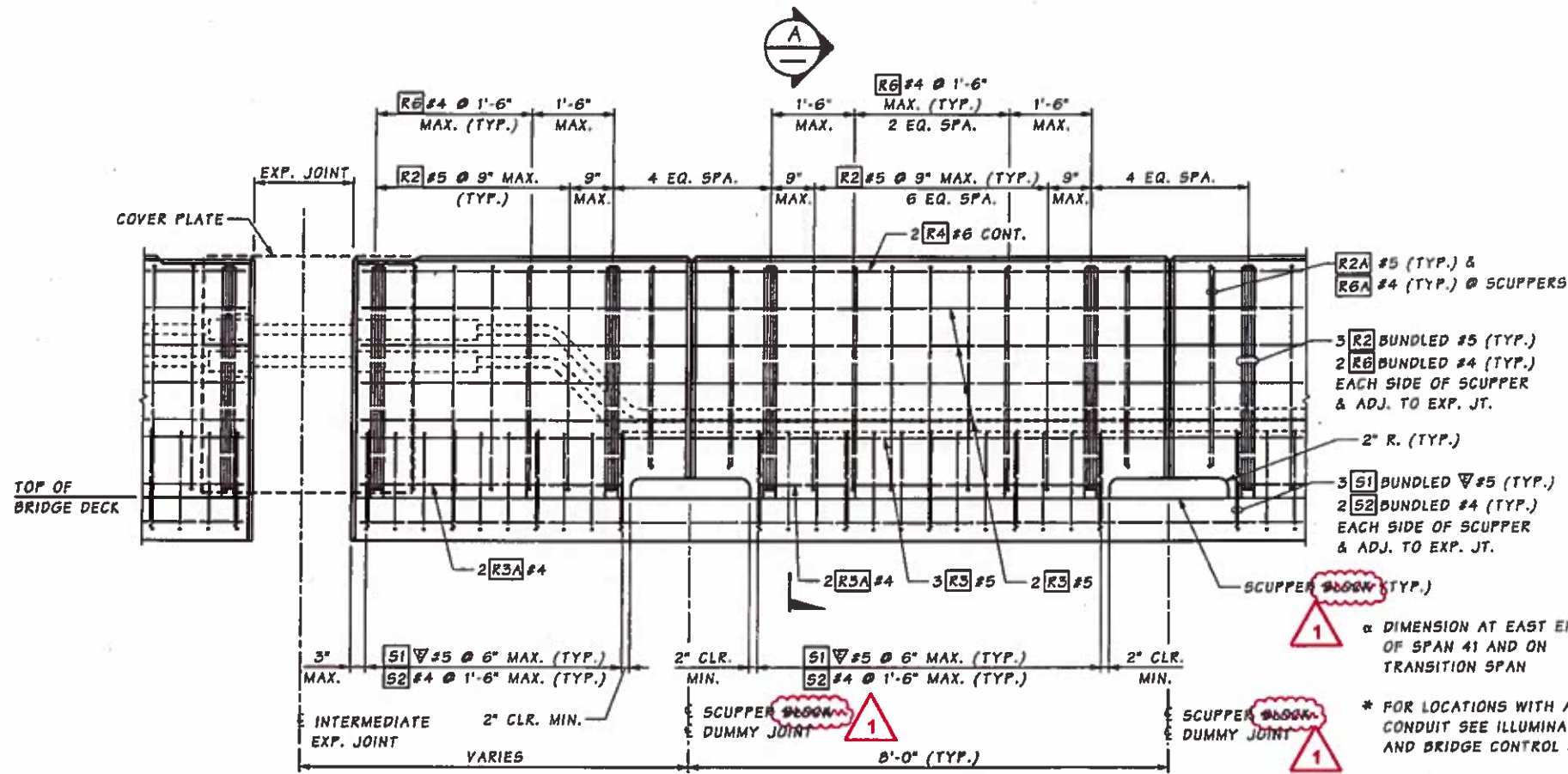
Contract 8625
Change Order #115
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BARRIER SCUPPER BLOCK

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BA544
1480
OF
1797
SHEETS

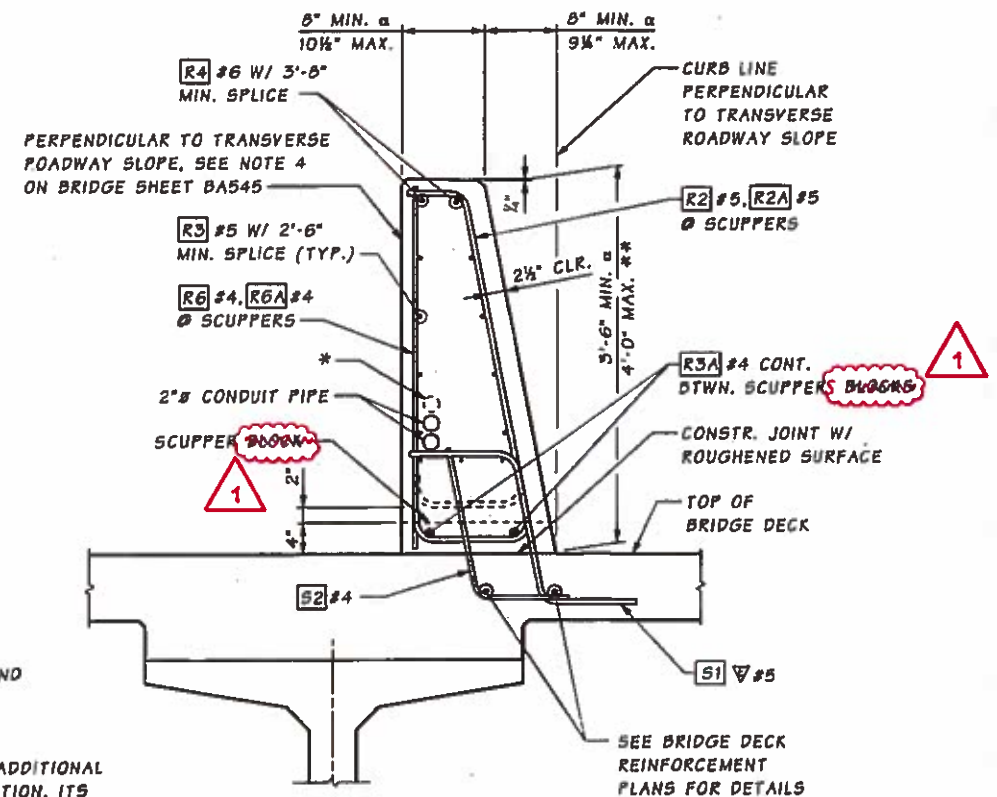


PLAN
TRAFFIC PEDESTRIAN BARRIER

BARRIER CONTINUOUS BETWEEN ROADWAY EXPANSION JOINTS.
CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS.
FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.



ELEVATION - TRAFFIC PEDESTRIAN BARRIER AT EXPANSION JOINT
SHOWN AT SCUPPER LOCATIONS



SECTION A W/ SCUPPER

- α DIMENSION AT EAST END OF SPAN 41 AND ON TRANSITION SPAN
- * FOR LOCATIONS WITH ADDITIONAL CONDUIT SEE ILLUMINATION, ITS AND BRIDGE CONTROL SYSTEM PLANS
- ** HEIGHT MAY VARY IF REQUIRED TO PROVIDE A PROFILE PLEASING TO THE EYE

SR 520 FILE NO. 7051 SHEET BA546
Projectwise Units: V09

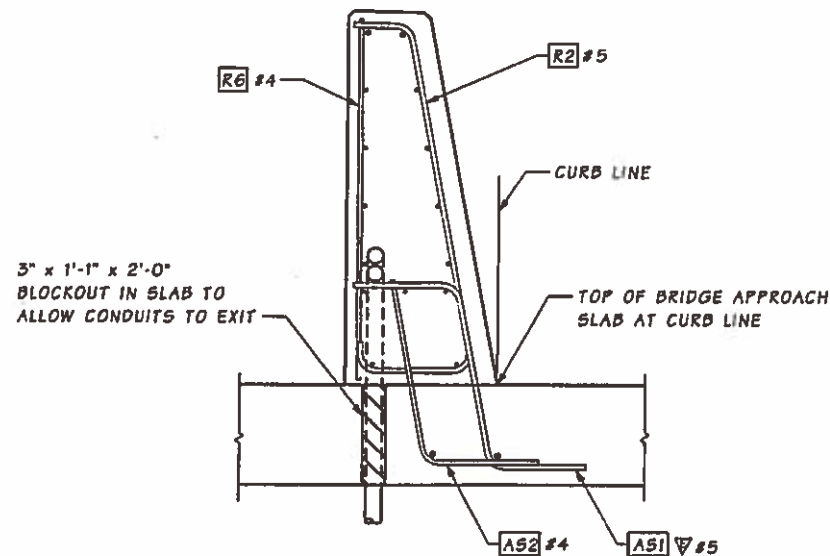
Bridge Design Engr.	Supervisor	Designed By	Checked By	Detailed By	Bridge Projects Engr.	Prof'n. Plan By	Architect/Specialist	DATE	REVISION	BY	APP'D
	BOTT, P.	AKESSON, B.	CHEN, G.	VYPLEL, M.				12/11/15	CO#115 - DELETE FACILITY M	BA	GK
REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	JOB NUMBER						
10	WASH		1492	1797	15A012						



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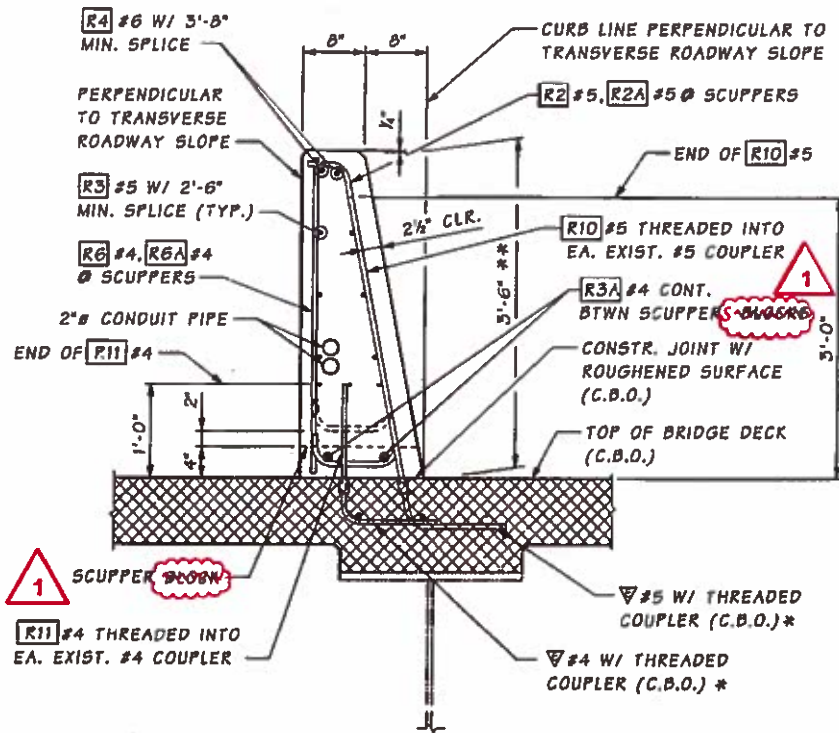
TRAFFIC PEDESTRIAN BARRIER
DETAILS 2 OF 4

SHEET NO. BA546
OF 1482
1797 SHEETS



SECTION A BRIDGE APPROACH SLAB

BA545 FOR DETAILS NOT SHOWN, SEE SECTION A "W/ SCUPPER" ON DR. SHT. BA546

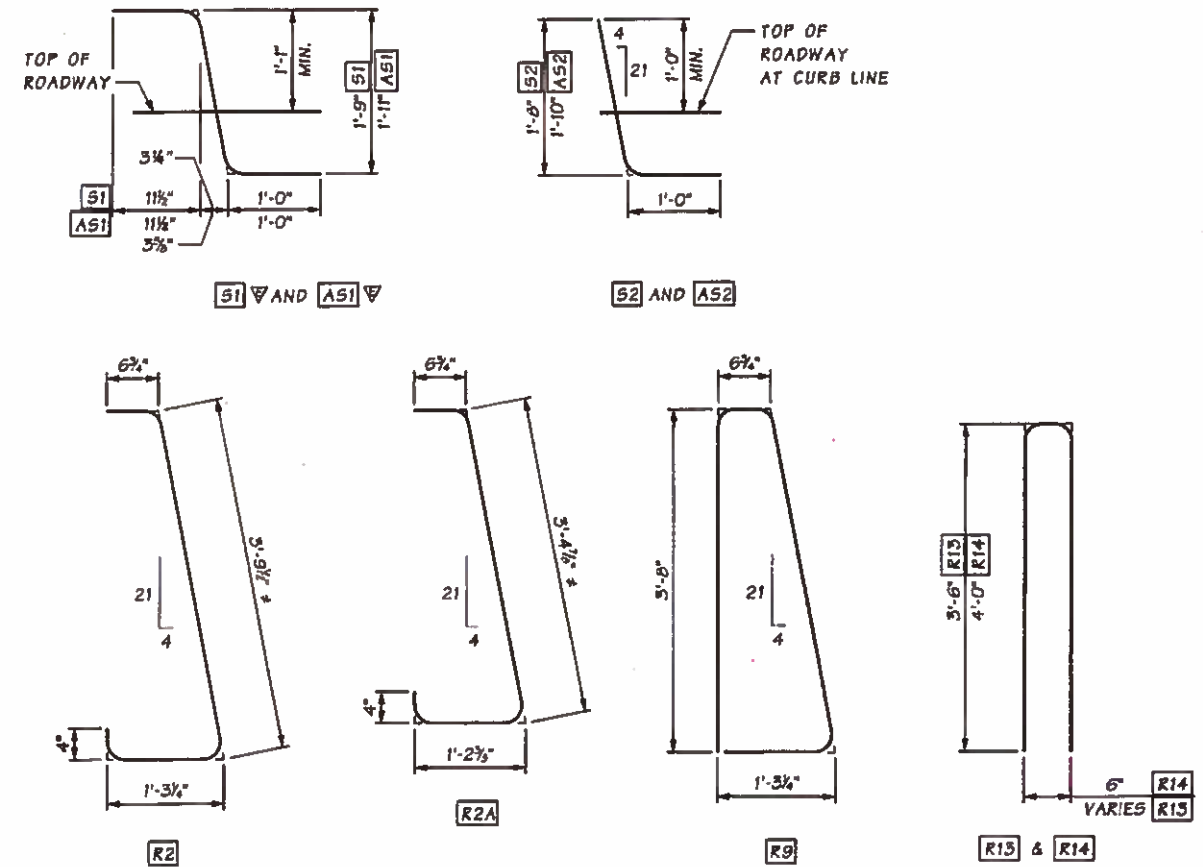


SECTION B ON EXISTING BRIDGE DECK

* CONTRACTOR SHALL FIELD VERIFY SIZE, LOCATION, AND SPACING OF EXISTING COUPLERS PRIOR TO BARRIER REBAR FABRICATION, AND REPORT DISCREPANCIES TO THE ENGINEER.
 ** HEIGHT MAY VARY IF REQUIRED TO PROVIDE A PROFILE PLEASING TO THE EYE.

BENDING DIAGRAM

ALL DIMENSIONS ARE OUT TO OUT.
 * = DIMENSIONS TO POINTS OF INTERSECTION.



NOTE:

BAR DIMENSIONS SHOWN ARE FOR TYPICAL TRAFFIC PEDESTRIAN BARRIER SECTION. VARY BAR DIMENSIONS AS NECESSARY AT SPAN 41 & TRANSITION SPAN.

SR 520 FILE NO. 7051 SHEET BA547
 ProjectWise Vault: V09

Bridge Design Engr.		REVISION	DATE	BY	APP'D	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor	BOTT, P.					10	WASH		1483	1797
Designed By	AKESSON, B.									
Checked By	CHEN, G.									
Detailled By	VYPLEL, M.									
Bridge Projects Engr.										
Print. Plan By		12/11/15	COM115 - DELETE FACILITY M	BA	GGK					
Architect/Specialist										



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TRAFFIC PEDESTRIAN BARRIER
 DETAILS 3 OF 4

BRIDGE SHEET NO.
 BA547
 SHEET
 1483
 OF
 1797
 SHEETS

