



May 5, 2016

TO: *mf* Marco Foster, MS473 54
THRU: *TRM* T. Madden / K. Klingman, NB82-230
FROM: *PF* P. Fuller / S. Beadle, NB 82-66
SUBJECT: C8 549
SR99, AWW Replacement North Access Connection
F.A. Project No: STPF-0099(122)
CHANGE ORDER 125
EN6, EN3A & EN3B Ductbank Changes

Attached for your review, approval and further processing is HQ executed *Change Order #125, EN6, EN3A & EN3B Ductbank Changes* for the subject project. The Change Order Checklist is attached (*Attachment A*).

Description of the Change

This Change Order compensates the Contractor for added work and extended overhead associated with new work. This change order adds new ductbanks EN6, EN3A and EN3B and also adds a new vault M-1 where the new ductbanks connect.

EN6 Ductbank:

Adds new ductbank EN6 from station EN6 260+00.00 to 262+20.20 as shown on plan sheets UPAL1, UPT3, UP1, UP9, UP16, UPR2-UPR3, UPR7, UPR10A, UPD10, and UPD28. This work consists of excavation and shoring, procuring ductbank materials and installing them, placing high strength FTB, forming materials, setting forms and stripping, placing low strength FTB, chipping overpour at existing V-834, coring at V-834, soil export and disposal, vactoring, dewatering the excavation area, 2ft overexcavation of trench and placing quarry spalls and bedding, importing quarry spalls and bedding, supporting existing utilities which involves crossing live ductbanks at Harrison St. vicinity and supporting existing foundations, mobilization and demobilization of equipment, survey and cleanup.

EN3A and EN3B Ductbanks:

Adds new ductbank EN3A from station EN3A 238+00.00 to 238+50.03 and adds new ductbank EN3B from station EN3B 239+00.00 to 239+43.37 as shown on plan sheets UPAL1, UPT3, UP1, UP9, UP16, UPR1, UPR9 and UPD10. This work consists of excavation and shoring, procuring ductbank materials and installing them, placing high strength FTB, forming materials, setting forms and stripping, placing low strength FTB, soil export and disposal, vactoring, dewatering the excavation area, supporting existing utilities and existing foundations, mobilization and demobilization of equipment, survey and cleanup.

M-1 Vault:

Adds the installation of the new M-1 vault at Station H-Line 97+07.27, (27.67' LT) as shown on UPN2, UP9, UP16, UPD19A, and UPD19B. This work consists of excavation, soil export and disposal, vactoring, dewatering the excavation area, 2 ft. vault overexcavation and placing quarry spalls and bedding, importing quarry spalls and bedding, supporting in place vault V-XX5, removing C-XX3 vault and replace in kind, installing shoring system and procuring shoring materials, loading and unloading shoring system, setting the vault, mudding the vault, constructing a custom riser, removing shoring and backfilling, purchasing and placing CDF for backfilling, supporting existing utilities, mobilization and demobilization of equipment, survey and cleanup. The procurement and the shoring design of the M-1 Vault is included in CO150.

Development of the Change

In RFI#365, transite ductbank was detailed for removal and its associated vault. The removal needed to occur in order to construct new Vault V-XX5 and ductbank ED3. This existing ductbank contained a 120/208V power source that was removed by Seattle City Light (SCL) weeks prior to this removal work. Upon further investigation, the Contractor noted that the vault scheduled to be removed was intended to be the future power service (588- M-1) for the City of Seattle Illumination system on Harrison St. from Taylor to SR99 and on 6th Ave. from Harrison St. to Mercer St.

WSDOT initially introduced a simple design involving 2-3 inch conduits which would connect V-834 to a new Type 6 vault in order to maintain a power source for city owned facilities. SCL responded on September 14, 2015 that new facilities to be owned and maintained by SCL would have to be constructed to Network standards to safely provide lighting service and other required loads in the vicinity. SCL confirmed on October 21, 2015 that a much larger ductbank cross section would be needed to run a secondary service to power street lighting and traffic signals. Upgrades required by SCL to meet current standards and future demands contributed to this significant cost increase. This added work is paid for by SCL. We received signed final plans from SCL on December 23, 2015 with all new ductbanks EN6, EN3A, EN3B and M-1 vault. Work did not begin until agreement was reached on the negotiated pricing.

Schedule Analysis

The Contractor claimed this added work would require an additional 40 working days. The work to construct the ductbank and vault are on the critical path and it is all new added work. We performed an independent analysis of the added work and we agreed with the Contractor's assessment. All of the work included in this change order is on the critical path of the approved schedule (*Attachment D*).

Approvals

- PE Approval—Patrick Fuller gave approval on 4/29/2016 (*Attachment B*).
- Region Approval—Tom Madden gave approval on 5/3/2016 (*Attachment B*).
- HQ Approval—Marco Foster gave approval on 5/2/2016 (*Attachment B*).
- FHWA Approval—Anthony Sarhan gave approval on 5/2/2016 (*Attachment B*).
- Program Management—Mario Mathisen gave approval on 5/3/2016 (*Attachment B*).

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- Engineer of Record—Monica Moravec signed plan sheets 12/22/20159(See *change order plans*)
- City Funding Approval-Jon Gray approved direct costs on 3/4/2016 and approved extended overhead costs on 3/17/2016. (See *Attachment B*).

Entitlement & Price

The Contractor will be reimbursed for the added work as stated in the change order. This change results in a significant amount of added work to the Contract. . The Contractor had to mobilize and demobilize their electrical subcontractor multiple times to build the new ductbank. (See *Estimate – Attachment C*).

Contract Time

This change order is adding 40 working days to the Contract. The added work was on the critical path. There are no changes to contract interim completion dates as a result of this change order.

PF: jp
Attachments
cc: File 8549 3(125)

**WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
CHANGE ORDER**

DATE: 04/29/16
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CONTRACT NO: 008549 FEDERAL AID NO: STPF-0099(122)
 CONTRACT TITLE: SR 99, ALASKAN WAY VIADUCT - REPLACEMENT NORTH ACC
 CHANGE ORDER NO: 125 M-1, EN6, EN3A, EN3B DUCTBANK CHG

PRIME CONTRACTOR: XXXXXXXXXX GUY F. ATKINSON CONSTRUCTION, LLC.
 707 SOUTH GRADY WAY STE 500

ORIGINAL

RENTON WA 98057-3224

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

<p>ENDORSED BY:</p> <p><u>Bel D-ly, Vice President</u></p> <p>CONTRACTOR</p> <p><u>4/29/16</u></p> <p>DATE</p>	<p>SURETY CONSENT:</p> <hr/> <p>ATTORNEY IN FACT</p> <hr/> <p>DATE</p>
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ORIGINAL CONTRACT AMOUNT: 41,640,622.60
 CURRENT CONTRACT AMOUNT: 46,763,885.99
 ESTIMATED NET CHANGE THIS ORDER: 1,204,577.86
 ESTIMATED CONTRACT TOTAL AFTER CHANGE: 47,968,463.85

Approval Required: Region Olympia Service Center Local Agency

CAPSV
CCIS/
7/8 5/12/16

<p><input checked="" type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> EXECUTED</p> <p><u>Pat Inuh</u></p> <p>PROJECT ENGINEER</p> <p><u>5/6/16</u></p> <p>DATE</p>	<p>EXECUTED: <u>[Signature]</u></p> <p>STATE CONSTRUCTION ENGINEER</p> <p><u>5/8/2016</u></p> <p>DATE</p>
<p><input checked="" type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> EXECUTED</p> <p>REGIONAL ADMIN: <u>Thomas Ray Middle</u></p> <p>BY:</p> <p><u>5-6-2016</u></p> <p>DATE</p>	<p>OTHER APPROVAL WHEN REQUIRED</p> <p><u>Anthony Sanhan</u> <u>5/12/16</u></p> <p>SIGNATURE DATE</p> <p><u>FHWA</u></p> <p>REPRESENTING</p>

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CONTRACT NO: 008549

CHANGE ORDER NO: 125

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

The change order compensates the Contractor for added work and extended overhead associated with new work. This change order adds new ductbanks EN6, EN3A and EN3B and also adds a new vault M-1 where the new ductbanks connect.

EN6 Ductbank:

Adds new ductbank EN6 from station EN6 260+00.00 to 262+20.20 as shown on plans sheets UPAL1, UPT3, UP1, UP9, UP16, UPR2-UPR3, UPR7, UPR10A, UPD10, and UPD28. This work consists of excavation and shoring, procuring ductbank materials and installing them, placing high strength FTB, forming materials, setting forms and stripping, placing low strength FTB, chipping overpour at existing V-834, coring at V-834, dirt export and disposal, vactoring, dewatering the excavation area, 2ft overexcavation of trench and placing quarrying spalls and bedding, importing quarry spalls and bedding, supporting existing utilities which involves crossing live ductbanks at Harrison St. vicinity and supporting existing foundations, mobilization and demobilization of equipment, survey and cleanup.

EN3A and EN3B Ductbanks:

Adds new ductbank EN3A from station EN3A 238+00.00 to 238+50.03 and adds new ductbank EN3B from station EN3B 239+00.00 to 239+43.37 as shown on plan sheets UPAL1, UPT3, UP1, UP9, UP16, UPR1, UPR9, and UPD10. This work consists of excavation and shoring, procuring ductbank materials and installing them, placing high strength FTB, forming materials, setting forms and stripping, placing low strength FTB, dirt export and disposal, vactoring, dewatering the excavation area, supporting existing utilities and existing foundations, mobilization and demobilization of equipment, survey and cleanup.

M-1 Vault:

Adds the installation of the new M-1 vault at Station H-Line 97+07.27, (27.67' LT) as shown on UPN2, UP9, UP16, UPD19A, and UPD19B. The procurement and the shoring design of the M-1 Vault is included in C0150. This work consists of excavation, dirt export and disposal, vactoring, dewatering the excavation area, 2 ft. vault overexcavation and placing quarry spalls and bedding, importing quarry spalls and bedding, supporting in place vault V-XX5, removing C-XX3 vault and replace in kind, installing shoring system and procuring shoring materials, loading and unloading shoring system, setting the vault, mudding the vault, constructing a custom riser, removing shoring and backfilling, purchasing and placing CDF for backfilling, supporting existing utilities, mobilization and demobilization of equipment, survey and cleanup.

This change order revises the following plan sheets UPN2, UPAL1, UPT3, UP1, UP9, UPR1, UPR3, UPR7-UPR10, UPR12, UPD10, UPD28 and adds the following new

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plan sheets UP16, UPR10A, UPD19A, UPD19B.

MATERIALS

All materials incorporated into the project shall meet the requirements of all the Contract Documents.

MEASUREMENT

Measurement of the new lump sum item, "CO125 M-1, EN6, EN3A, EN3B Ductbank Changes", shall be in accordance with Standard Specification 1-09.1, Measurement of Quantities of Lump Sum Items.

PAYMENT

This change order creates a new lump sum item, "CO125 M-1, EN6, EN3A, EN3B Ductbank Changes" in the amount of \$1,204,577.86. This amount shall be full payment for all labor, equipment and materials to perform the work as described above, including but not limited to engineering, planning, scheduling, and overhead for the added work per Section 1-09.1 of the Standard Specifications.

CONTRACT TIME

There are 40 working days added to the contract time as a result of this change order. No changes to contract interim milestones are made as a result of this change order.

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CHANGE ORDER**

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ITEM NO	GROUP NO	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	UNIT PRICE	EST QTY CHANGE	EST AMT CHANGE
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466/1168	08		CO125 M-1, EN6, EN3A, EN3B DUCTBANK CHANG	L.S.	0.00	0.00	1,204,577.86
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1,204,577.86
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SEATTLE CITY LIGHT VAULT/HANDHOLE SCHEDULE

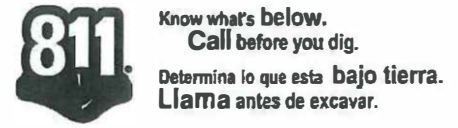
NOTE:
 1. REFER TO PROFILES FOR ELEVATIONS OF TOP OF BELOW-GRADE VAULTS. ALL AT-GRADE VAULTS/HANDHOLES AND RISER ELEMENTS (RISERS, LIDS, HATCHES, ETC) SHALL BE ADJUSTED TO FINISH GRADE.
 2. DOWEL ALL NEW DUCT BANKS INTO EXISTING VAULT WALLS TO PROVIDE SHEAR CONNECTION. DOWEL #4X16 STEEL REBAR INTO THE VAULT WALL WITH EPOXY (4" MIN. EMBEDMENT). FOUR DOWELS ARE REQUIRED FOR SIX CONDUITS OR LESS IN A DUCT BANK. SIX DOWELS ARE REQUIRED FOR MORE THAN SIX CONDUITS IN A DUCT BANK.

VAULT NAME	OWNER	VAULT TYPE	DRAWING	VAULT DETAIL AND SHEET NO	ALIGNMENT	STATION AND OFFSET	NOTES
V-XX1	SCL	712-LA	UP1, UP7	1-UPD13	6TH	CNTR: 110+35.00, 6.58' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO 6TH	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-XX2	SCL	712-LA	UP1, UP7	2-UPD13	6TH	CNTR: 110+98.00, 14.42' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO 6TH	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-XX3	SCL	712-LA	UP1, UP8	3-UPD14	6TH	CNTR: 112+13.00, 19.08' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO 6TH	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-XX4	SCL	712-LA	UP1, UP8	4-UPD14	6TH	CNTR: 112+30.00, 15.42' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO 6TH	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-XX5	SCL	712-LA	UP1, UP9	5-UPD15	H	CNTR: 97+05.06, 15.92' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO H	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-XX6	SCL	712-LA	UP1	6-UPD15	6TH	CNTR: 113+84.94, 8.42' RT INSTALL LONG DIRECTION OF VAULT PARALLEL TO 6TH	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-XX7	SCL	712-LA	UP3, UP11	7-UPD16	H	CNTR: 99+23.22, 1.00' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO H	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-XX8	SCL	712-LA	UP3, UP11	8-UPD16	H	CNTR: 98+95.13, 1.00' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO H	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-XX9	SCL	712-LA	UP3, UP12	9-UPD17	H	CNTR: 101+45.00, 15.92' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO H	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-X10	SCL	712-LA	UP5, UP13	10-UPD17	H	CNTR: 104+14.00, 9.08' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO H	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-X11	SCL	712-LA	UP5, UP13	11-UPD18	H	CNTR: 104+40.00, 17.42' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO H	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-X12	SCL	814-8-CLX	UP5, UP15	12-UPD18	R	CNTR: 104+10.00, 4.00' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO R	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-X13 - NOT USED							
V-X14	SCL	577-LA	UP5, UP14	14-UPD19	H	CNTR: 105+50.00, 26.00' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO H	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
V-X15 - NOT USED							
V-X16	SCL	814-8-CLX	UP1, UP10	16-UPD19	H	CNTR: 95+29.76, 29.00' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO H	INSTALL REBAR INSERTS PER DETAIL 1/UPD12
M-1	SCL	818-9 PANEL	UP1	1-UPD19B	H	CNTR: 97+07.27, 27.87' LT INSTALL LONG DIRECTION OF VAULT PARALLEL TO H	PANEL VAULT PER TYPICAL DETAIL 1/UPD19A
0578M009	SCL	EXIST.	UP1	20-UPD20	H	EXIST. (96+25.9±, 17.4' RT±)	DOWEL NEW DUCT BANK TO VAULT, SEE NOTE 2
0578M011	SCL	EXIST.	UP1	21-UPD21	H	EXIST. (94+14.2±, 13.5' RT±)	DOWEL NEW DUCT BANK TO VAULT, SEE NOTE 2
0578M016	SCL	EXIST.	UP1	22-UPD22	H	EXIST. (95+57.7±, 26.4' RT±)	DOWEL NEW DUCT BANK TO VAULT, SEE NOTE 2
0578M030	SCL	EXIST.	UP1	23-UPD23	H	EXIST. (95+87.2±, 24.9' RT±)	DOWEL NEW DUCT BANK TO VAULT, SEE NOTE 2
0588V325	SCL	EXIST.	UP3, UP11	24-UPD24	H	EXIST. (99+49.7±, 22.3' RT±)	DOWEL NEW DUCT BANK TO VAULT, SEE NOTE 2
0588M0D9	SCL	EXIST.	UP6	25-UPD25	6TH	EXIST. (108+74.1±, 11.7' RT±)	DOWEL NEW DUCT BANK TO VAULT, SEE NOTE 2
0588M020	SCL	EXIST.	UP3, UP11	26-UPD26	H	EXIST. (98+74.6±, 16.5' RT±)	DOWEL NEW DUCT BANK TO VAULT, SEE NOTE 2
0578M028	SCL	EXIST.	UP1, UP7	27-UPD27	6TH	EXIST. (111+13.4±, 20.2' RT±)	DOWEL NEW DUCT BANK TO VAULT, SEE NOTE 2
0588V834 0578V834	SCL	EXIST.	UP1	28-UPD28	6TH	EXIST. (110+89.5±, 6.2' RT±)	DOWEL NEW DUCT BANK TO VAULT, SEE NOTE 2
C-XX1	SCL	444-LA	UP1, UP7	1-UPD29	6TH	CNTR: 111+24.00, 36.00' LT INSTALL HANDHOLE PARALLEL TO 6TH	
C-XX2	SCL	444-LA	UP1, UP8	2-UPD29	6TH	CNTR: 112+31.00, 38.00' LT INSTALL HANDHOLE PARALLEL TO 6TH	
C-XX3	SCL	444-LA	UP1, UP9	3-UPD29	H	CNTR: 97+19.75, 40.00' LT INSTALL HANDHOLE PARALLEL TO H	PRIOR TO INSTALLATION OF THIS HANDHOLE, CONTRACTOR SHALL LAYOUT THE CURB AND CURB RAMP ALIGNMENTS TO ENSURE THE HANDHOLE IS NOT INSTALLED WITHIN THE CURB RAMP
C-XX4	SCL	444-LA	UP3, UP11	4-UPD29	H	CNTR: 98+86.00, 24.50' RT INSTALL HANDHOLE PARALLEL TO H	
C-XX5	SCL	444-LA	UP3, UP12	5-UPD30	H	CNTR: 101+15.00, 25.00' LT INSTALL HANDHOLE PARALLEL TO H	
C-XX6	SCL	444-LA	UP5, UP14	6-UPD30	H	CNTR: 105+30.50, 25.00' LT INSTALL HANDHOLE PARALLEL TO H	
C-XX7	SCL	444-LA	UP5	7-UPD30	D	CNTR: 108+10.00, 39.75' RT INSTALL HANDHOLE PARALLEL TO D	

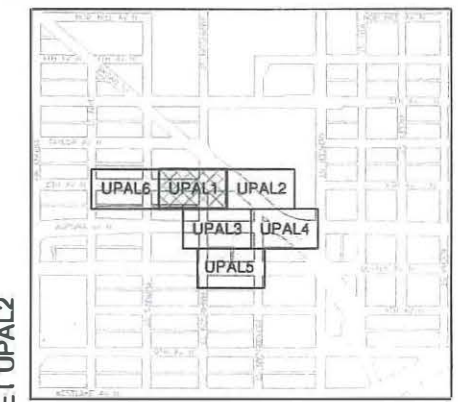
NOTE:
 1. STATION AND OFFSET SHOWN IS CENTER OF POLE.
 2. CONDUITS TO POLE AND CONDUIT RISERS SHALL NOT BE INSTALLED UNTIL POLE HAS BEEN SET.

SEATTLE CITY LIGHT TERMINATION POLE SCHEDULE

TERMINATION POLE NAME	OWNER	TYPE	DRAWING	RISER DETAIL AND SHEET NO	ALIGNMENT	STATION/OFFSET	NOTES
TP-01	SCL	DIST.	UP5, UP13	1-UPD31	H	104+17.00, 25.00' RT	NEW POLE TO BE PROVIDED AND INSTALLED BY OTHERS (SCL), NEW CONDUIT RISERS
TP-02	SCL	DIST.	UP5, UP13	2-UPD31	H	104+10.00, 25.00' LT	NEW POLE TO BE PROVIDED AND INSTALLED BY OTHERS (SCL), NEW CONDUIT RISERS
TP-03	SCL	DIST.	UP5, UP14	3-UPD31	H	EXIST. (105+71.31±, 25.10' LT±)	EXIST. POLE, NEW CONDUIT RISERS
TP-04	SCL	DIST.	UP5, UP15	4-UPD31	D	112+75.00±, 40.00± RT	NEW POLE TO BE PROVIDED AND INSTALLED BY OTHERS (SCL), NEW CONDUIT RISERS. POLE LOCATION APPROXIMATE.
TP-05	SCL	DIST.	UP4	5-UPD31	R	EXIST. (101+68.6±, 91.8' LT±)	EXIST. POLE, NEW CONDUIT RISERS, TRANSFORMERS TO BE REMOVED BY OTHERS (SCL)
TP-06	SCL	DIST.	UP5	6-UPD31	R	EXIST. (104+66.2±, 23.6' RT±)	EXIST. POLE, NEW CONDUIT RISERS



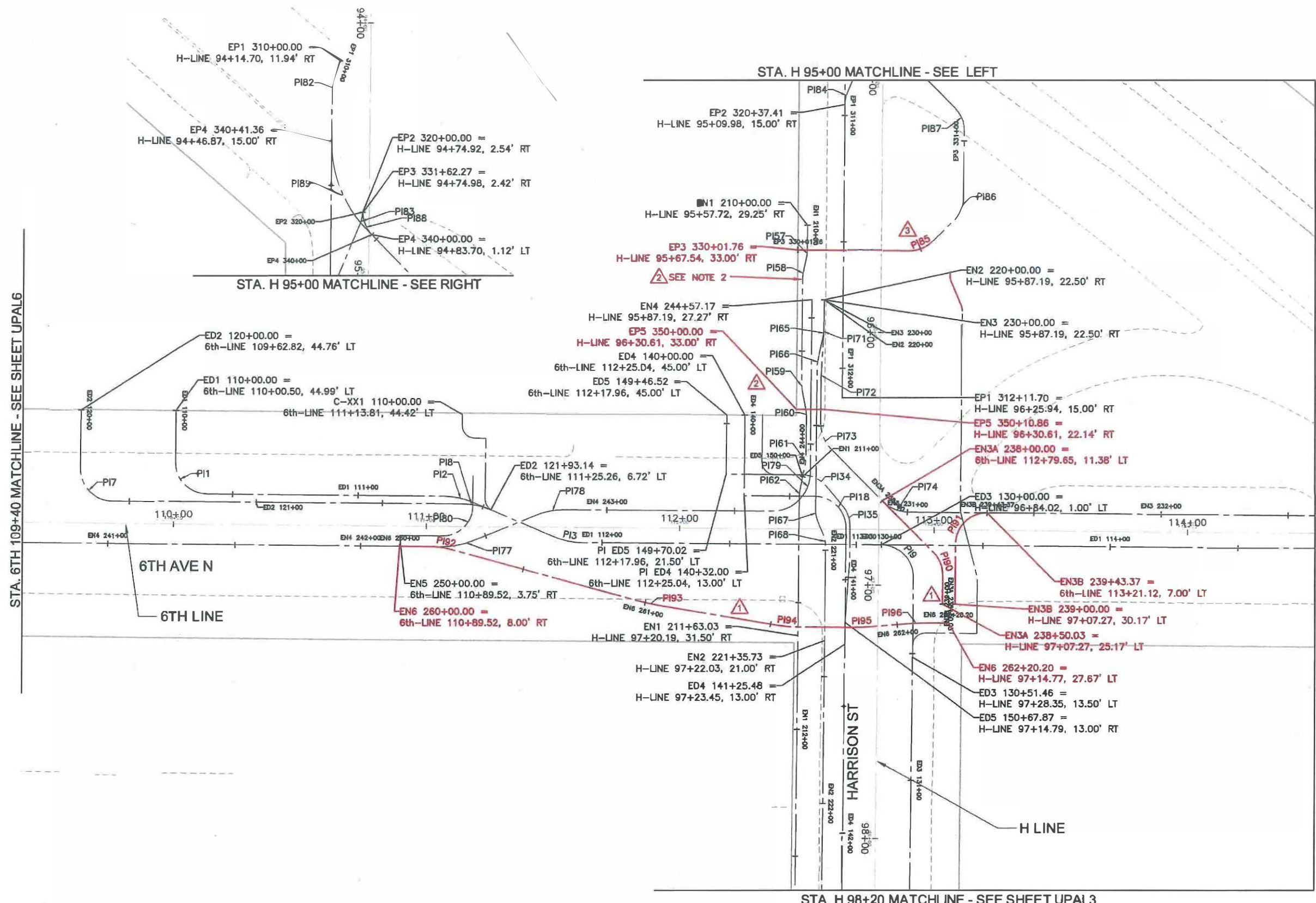
FILE NAME: C:\Temp\AcPublish_90841003_MWNA-CPN1.dwg	TIME: 4:34am	DATE: Dec-21-15	REGION NO.: 10	STATE: WASH	FED.AID PROJ.NO.		<p>1601 Fifth Avenue, Suite 1600 Seattle, Washington 98101-3665 (206) 622-5822 Fax (206) 622-8130</p>		SR 99 ALASKAN WAY VIADUCT-REPLACEMENT NORTH ACCESS CONNECTION POWER NOTES	PLAN REF. NO.: UPN2
DESIGNED BY: C.PARK	ENTERED BY: J.LINEHAN	CHECKED BY: S.BARTLETT	PROJ. ENGR.: S.BEADLE	REGIONAL ADM.: T.TREPANIER	REVISION					JOB NUMBER: 13A003 CONTRACT NO.: LOCATION NO.: XL-3687



SHEET KEY

- GENERAL NOTES:**
- REFER TO SHEETS UPT1 - UPT3 FOR POWER ALIGNMENT TABLES.
 - THE CONTRACTOR SHALL FIELD ADJUST THE EN1 DUCT BANK, AS NEEDED, TO FIT BETWEEN THE SUBSTATION WALL FOOTING AND VAULT 0578M030.

SHEET 6 OF 23
 CHANGE ORDER NO. 125
 CONTRACT 8529






STA. 6TH 109+40 MATCHLINE - SEE SHEET UPAL6

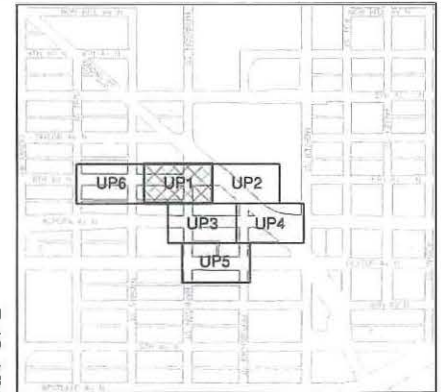
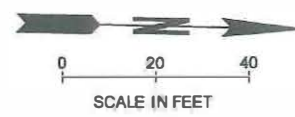
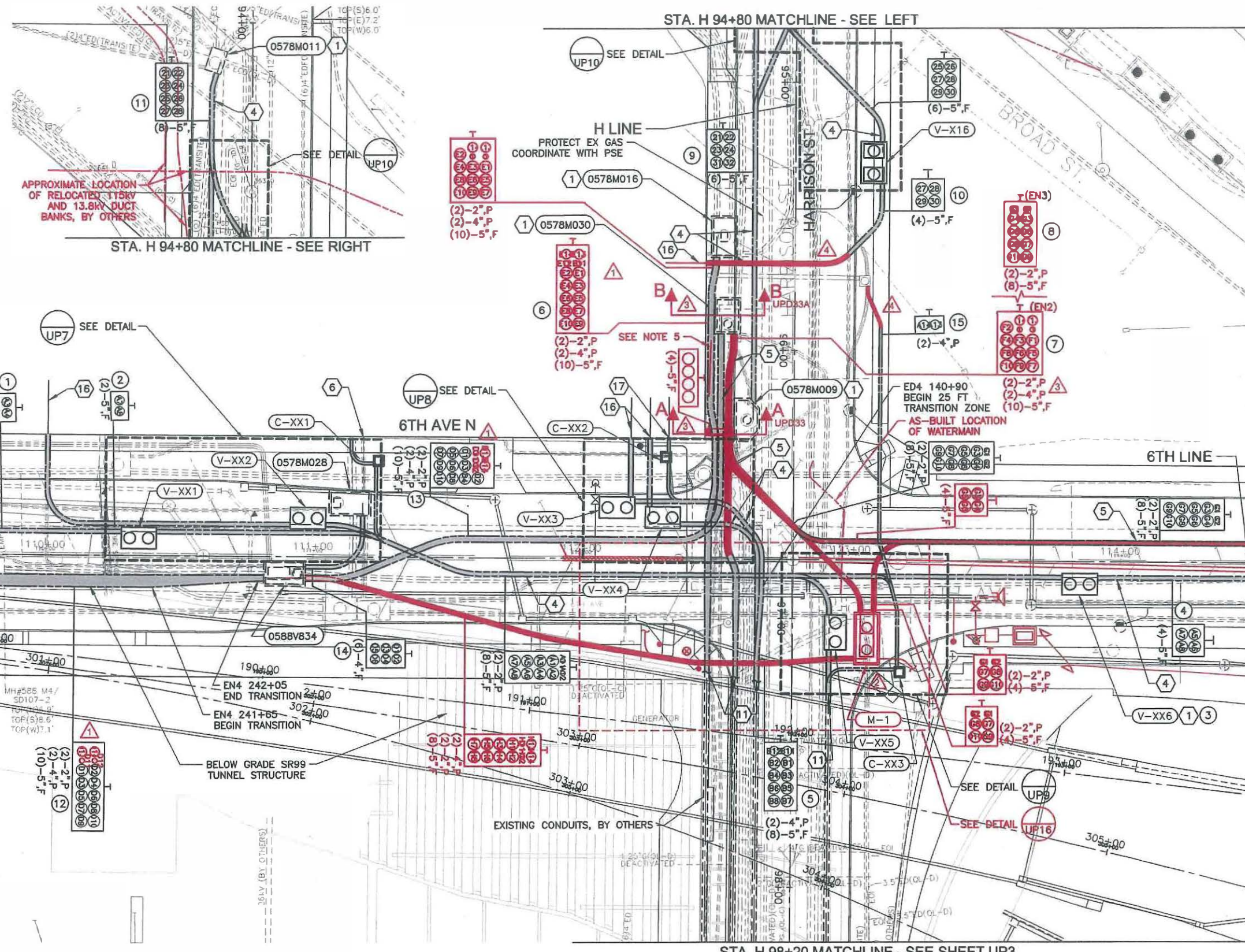
STA. 6TH 114+50 MATCHLINE - SEE SHEET UPAL2

FILE NAME X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\003-MWNA-CPA1.dwg		REGION NO. 10		STATE WASH	FED.AID PROJ.NO.				SR 99 ALASKAN WAY VIADUCT-REPLACEMENT NORTH ACCESS CONNECTION	PLAN REF. NO. UPAL1						
TIME 4:35am	DATE Dec-21-15	PLOTTED BY J.LINEHAN	DESIGNED BY C.PARK	ENTERED BY J.LINEHAN	CHECKED BY S.BARTLETT						PROJ. ENGR. S. BEADLE	REGIONAL ADM. T. TREPANIER	REVISION	DATE	BY	LOCATION NO. XL-3687

P.I. TABLE									
PI #	ALIGNMENT NAME	P.I. NORTHING	P.I. EASTING	BEARING IN	BEARING OUT	DELTA	RADIUS	TANGENT	LENGTH
PI62	EN1	130543.33	567652.33	S77°20'33.00"E	S88°33'32.80"E	011°12'59.80"	11.67	1.15	2.28
PI63	EN1	130538.89	567828.74	S88°33'32.80"E	N80°11'37.00"E	011°14'50.20"	11.67	1.15	2.29
PI64	EN1	130540.20	567836.32	N80°11'37.00"E	S88°33'23.00"E	011°15'00.00"	11.67	1.15	2.29
PI65	EN2	130553.89	567588.91	S88°35'33.00"E	S77°20'33.00"E	011°15'00.00"	11.67	1.15	2.29
PI66	EN2	130551.08	567601.41	S77°20'33.00"E	S88°35'33.00"E	011°15'00.00"	11.67	1.15	2.29
PI67	EN2	130549.60	567661.57	S88°35'33.00"E	N68°56'37.00"E	022°27'50.00"	11.67	2.32	4.58
PI68	EN2	130553.36	567671.33	N68°56'37.00"E	S88°33'23.00"E	022°30'00.00"	11.67	2.32	4.58
PI69	EN2	130549.26	567833.99	S88°33'23.00"E	S77°18'23.00"E	011°15'00.00"	11.67	1.15	2.29
PI70	EN2	130541.94	567866.49	S77°18'23.00"E	S88°33'23.00"E	011°15'00.00"	11.67	1.15	2.29
PI71	EN3	130553.90	567588.56	S88°35'33.00"E	S85°35'33.00"E	003°00'00.00"	30.00	0.79	1.57
PI72	EN3	130552.58	567605.70	S85°35'33.00"E	S88°35'33.00"E	003°00'00.00"	30.00	0.79	1.57
PI73	EN3	130551.96	567630.83	S88°35'33.00"E	N46°24'27.00"E	045°00'00.00"	15.00	6.21	11.78
PI74	EN3	130580.24	567660.53	N46°24'27.00"E	N01°28'09.06"E	044°56'17.94"	15.00	6.20	11.76
PI75	EN3	130839.19	567667.17	N01°28'09.06"E	N29°01'16.48"E	027°33'07.42"	100.00	24.52	48.09
PI76	EN3	130943.91	567725.27	N29°01'16.48"E	N42°15'58.59"W	071°17'15.08"	15.00	10.76	18.66
PI77	EN4	130408.40	567671.21	N01°26'30.20"E	N21°03'29.80"W	022°30'00.00"	30.00	5.97	11.78
PI78	EN4	130444.98	567657.12	N21°03'29.80"W	N01°26'30.20"E	022°30'00.00"	30.00	5.97	11.78
PI79	EN4	130547.38	567659.70	N01°26'30.20"E	N88°35'33.00"W	090°02'03.20"	15.00	15.01	23.57
PI80	EN5	130414.20	567667.10	N01°26'30.20"E	N88°33'29.80"W	090°00'00.00"	11.67	11.67	18.33
PI82	EP1	130565.71	567413.32	S70°48'20.75"E	S88°35'33.00"E	017°47'12.25"	12.50	1.96	3.88
PI83	EP2	130576.86	567466.77	S88°35'33.00"E	S66°05'33.00"E	022°30'00.00"	12.50	2.49	4.91
PI84	EP2	130563.66	567496.54	S66°05'33.00"E	S88°35'33.00"E	022°30'00.00"	12.50	2.49	4.91
PI85	EP3	△ 130593.26	567557.33	N01°24'27.00"E	N43°35'33.00"W	045°00'00.00"	12.50	5.18	9.82
PI86	EP3	130609.78	567541.60	N43°35'33.00"W	N88°35'33.00"W	045°00'00.00"	12.50	5.18	9.82
PI87	EP3	130610.68	567504.99	N88°35'33.00"W	S46°24'27.00"W	045°00'00.00"	12.50	5.18	9.82
PI88	EP3	130576.91	567469.52	S46°24'27.00"W	N88°34'21.93"W	045°01'11.07"	12.50	5.18	9.82
PI89	EP4	130564.64	567456.64	S46°24'27.00"W	N88°35'33.00"W	045°00'00.00"	50.00	20.71	39.27
△ PI90	EN3A	130599.31	567680.56	N46°24'27.00"E	S88°33'23.00"E	045°02'10.00"	12.50	5.18	9.83
PI91	EN3B	130604.80	567661.16	N88°33'23.00"W	N01°28'09.06"E	090°01'32.06"	12.50	12.51	19.64
PI92	EN6	130401.87	567671.04	N01°26'30.20"E	N16°26'30.20"E	015°00'00.00"	30.00	3.95	7.85
PI93	EN6	130483.28	567695.07	N16°26'30.20"E	N10°34'48.12"E	005°51'42.12"	100.00	5.12	10.23
PI94	EN6	130537.62	567705.22	N10°34'48.12"E	N01°26'37.00"E	009°08'11.04"	50.00	3.99	7.97
PI95	EN6	130567.19	567705.96	N01°26'37.00"E	N03°33'23.00"W	005°00'00.00"	100.00	4.37	8.73
PI96	EN6	130590.09	567704.54	N03°33'23.00"W	N01°26'37.00"E	005°00'00.00"	100.00	4.37	8.73

- GENERAL NOTES:**
- REFER TO SHEETS UPAL1 - UPAL6 FOR POWER ALIGNMENT PLANS.
 - P.I. NORTHINGS/EASTINGS ARE BASED ON PROJECT COORDINATES. REFER TO ALIGNMENT AND RIGHT OF WAY PLANS FOR PROJECT DATUM AND HORIZONTAL CONTROL.

FILE NAME X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\003-MWNA-CPT1.dwg		REGION NO. 10 STATE WASH		FED.AID PROJ.NO.				SR 99 ALASKAN WAY VIADUCT-REPLACEMENT NORTH ACCESS CONNECTION	PLAN REF. NO. UPT3
TIME 4:35am	DATE Dec-21-15	JOB NUMBER 13A003		LOCATION NO. XL-3687					
PLOTTED BY J.LINEHAN	DESIGNED BY C.PARK	ENTERED BY J.LINEHAN	CHECKED BY S.BARTLETT	PROJ. ENGR. S.BEADLE	REGIONAL ADM. T.TREPANIER	REVISION DATE BY		POWER ALIGNMENT TABLES	
		△ CO-147: EP3 RELOCATION	12/17/2015 CDP						
		△ CO-125: NEW VAULT M-1	12/17/2015 CDP						



SHEET KEY

- GENERAL NOTES:**
- ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
 - FOR SEATTLE CITY LIGHT UNDERGROUNDING NOTES, LEGEND, AND STRUCTURE NOTES, REFER TO DRAWINGS UPN1-UPN2.
 - FOR DUCT BANK ALIGNMENT INFORMATION, REFER TO DRAWINGS UPAL1-UPAL6 AND UPT1-UPT3.
 - FOR DUCT BANK PROFILES, REFER TO THE FOLLOWING DRAWINGS:
 - ALIGNMENT ED1 - DRAWING UPR1
 - ALIGNMENT ED2 - DRAWING UPR2
 - ALIGNMENT ED3 - DRAWING UPR2
 - ALIGNMENT ED4 - DRAWING UPR3
 - ALIGNMENT ED5 - DRAWING UPR4
 - ALIGNMENT EN1 - DRAWING UPR7
 - ALIGNMENT EN2 - DRAWING UPR8
 - ALIGNMENT EN3 - DRAWING UPR9
 - ALIGNMENT EN4 - DRAWING UPR10
 - ALIGNMENT EN5 - DRAWING UPR10
 - ALIGNMENT EP1 - DRAWING UPR11
 - ALIGNMENT EP2 - DRAWING UPR11
 - ALIGNMENT EP3 - DRAWING UPR11
 - ALIGNMENT EP4 - DRAWING UPR11

△ APPROXIMATE LOCATION OF WALL FOOTING AS ENCOUNTERED IN THE FIELD, PER SURVEY RECEIVED ON 11/16/15.

⊗ CONSTRUCTION NOTE REFER TO DRAWING UPN1

SHEET 8 OF 23

CHANGE ORDER NO. 125

CONTRACT 8549

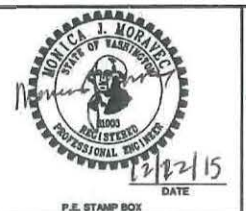
STA. 6TH 109+40 MATCHLINE - SEE SHEET UP6

STA. 6TH 114+50 MATCHLINE - SEE SHEET UP2

FILE NAME X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\004-MWNA-CP01.dwg

TIME	4:36am				
DATE	Dec-21-15				
PLOTTED BY	J.LINEHAN	△ CO-147: EP3 RELOCATION	12/17/2015	CDP	
DESIGNED BY	C.PARK	△ CO-133: EN3 RELOCATION	12/17/2015	GDP	
ENTERED BY	J.LINEHAN	△ CO-125: NEW VAULT M-1	12/17/2015	CDP	
CHECKED BY	S.BARTLETT	△ RFI 64 (BASED ON RFI 37 RESPONSE)			
PROJ. ENGR.	S. BEADLE	AD1- REPLACEMENT SHEET - BACKGROUND UTILITIES DARKENED	10/25/2013	JDC	
REGIONAL ADM.	T. TREPANIER				

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	CONTRACT NO.	LOCATION NO.
13A003		XL-3687

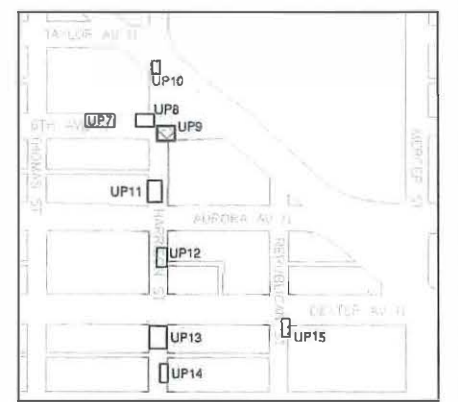
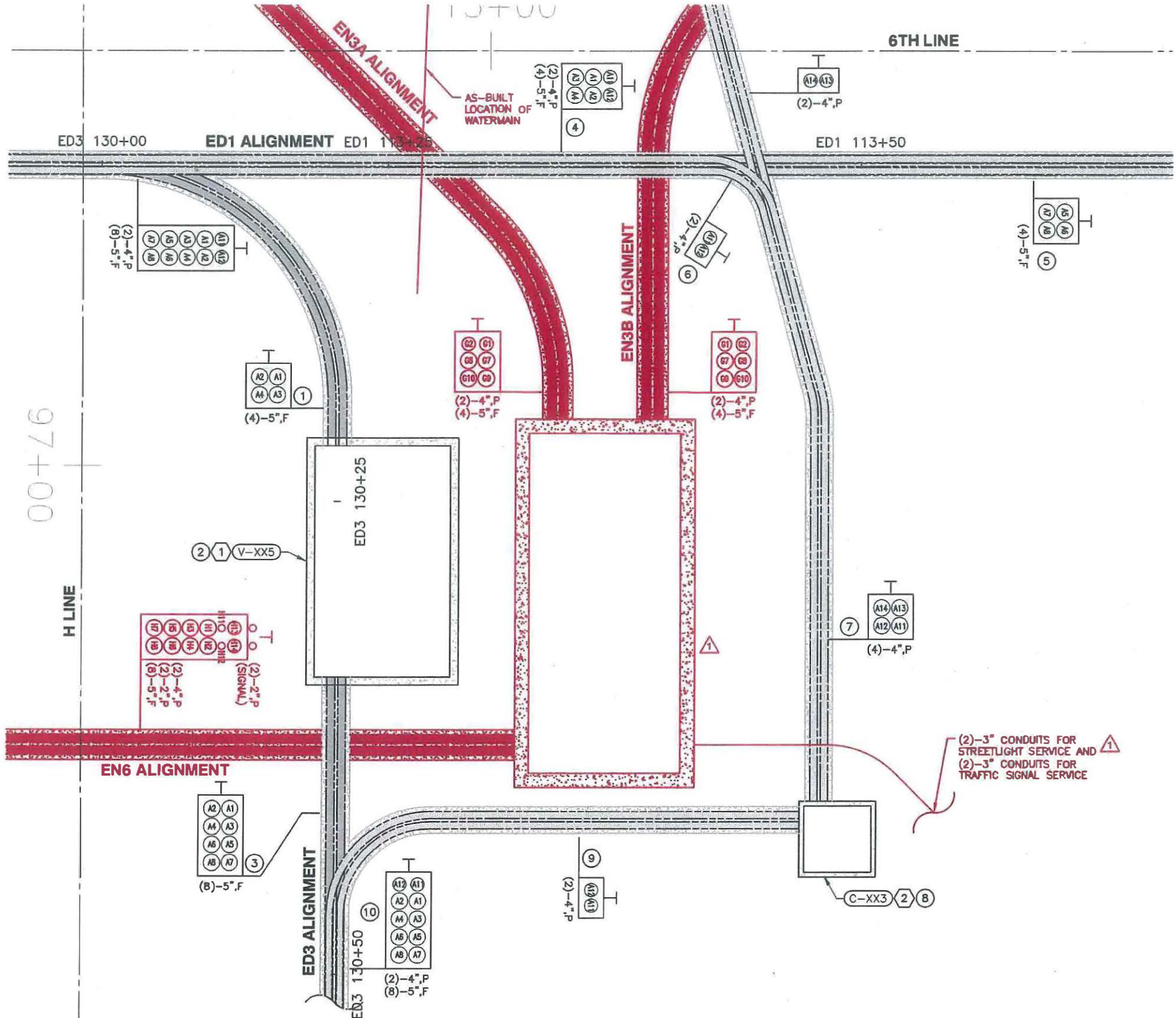


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SR 99
ALASKAN WAY VIADUCT-REPLACEMENT
 NORTH ACCESS CONNECTION
 POWER PLAN

PLAN REF. NO.
 UP1
 SHEET
 204
 OF
 770
 SHEETS



SHEET KEY

CONSTRUCTION NOTES:

X CONSTRUCTION NOTE REFER TO DRAWING UPN1

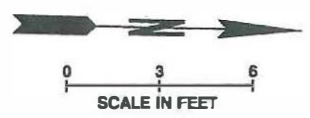
GENERAL NOTES:

1. ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
2. FOR SEATTLE CITY LIGHT UNDERGROUNDING NOTES, LEGEND, AND STRUCTURE NOTES, REFER TO DRAWINGS UPN1-UPN2.
3. FOR DUCT BANK ALIGNMENT INFORMATION, REFER TO DRAWINGS UPAL1-UPAL6 AND UPT1-UPT3.

LEGEND

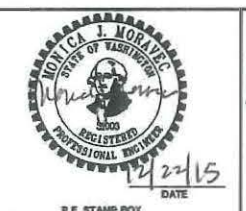
- COMMUNICATION CONDUIT
- FLUIDIZED THERMAL BACKFILL, PER SECTIONS
- DISTRIBUTION CONDUIT

SHEET 9 OF 23
 CHANGE ORDER NO. 125
 CONTRACT 8549



FILE NAME	X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\004-MWNA-CP02.dwg		
TIME	4:37am		
DATE	Dec 21-15		
PLOTTED BY	J.LINEHAN		
DESIGNED BY	S.ZURFLUH		
ENTERED BY	J.LINEHAN		
CHECKED BY	C.PARK		
PROJ. ENGR.	S. BEADLE	CO-125: NEW VAULT M-1	12/17/2015
REGIONAL ADM.	T. TREPANIER	REVISION	DATE BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	CONTRACT NO.	LOCATION NO.
13A003		XL-3687

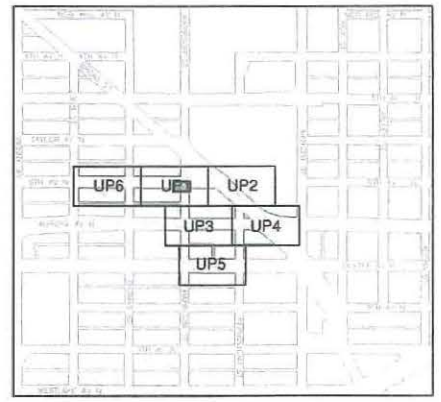


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SR 99
 ALASKAN WAY VIADUCT-REPLACEMENT
 NORTH ACCESS CONNECTION
 ENLARGED POWER PLAN

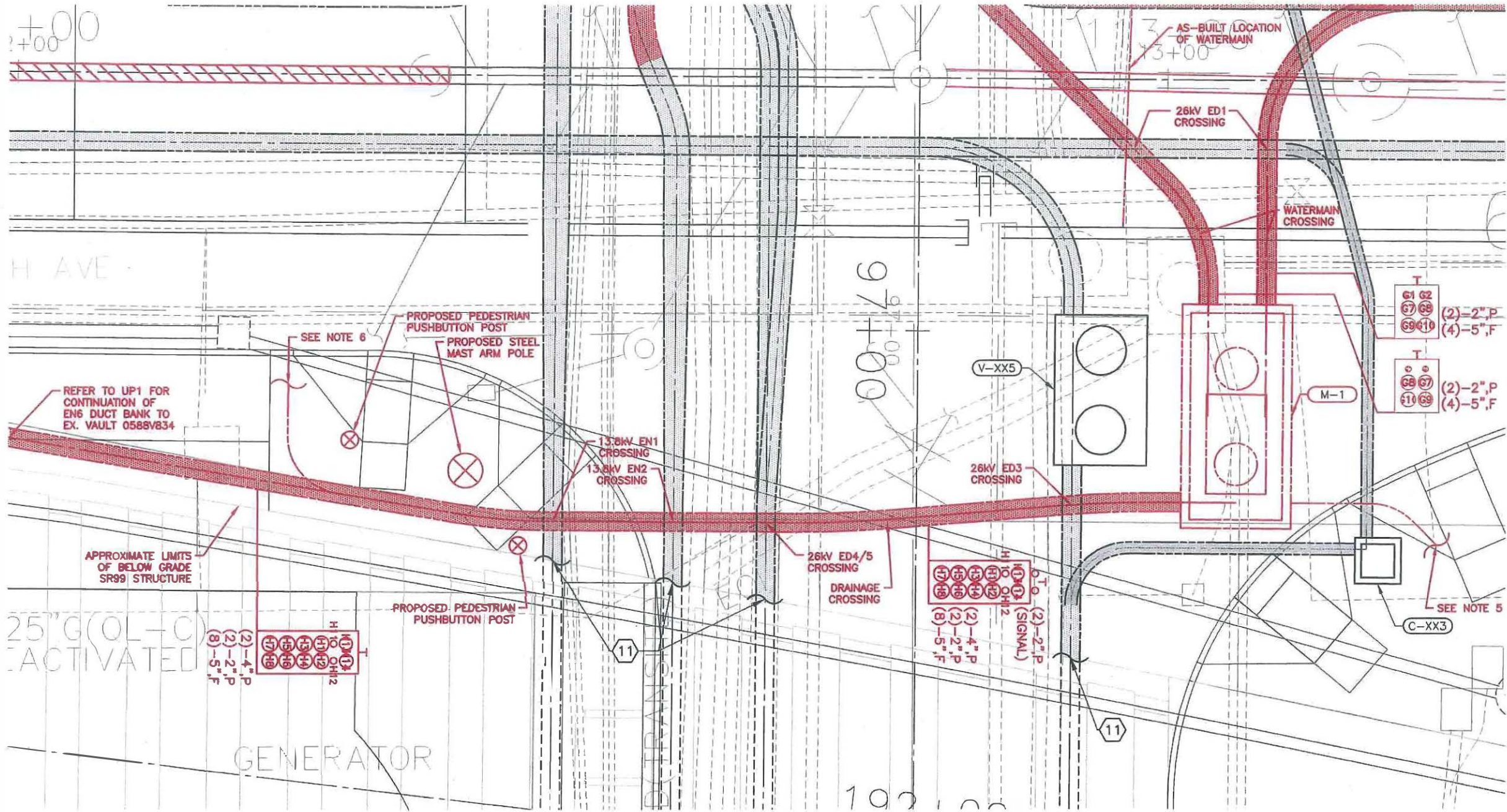
PLAN REF. NO.	UP9
SHEET	212
OF	770
SHEETS	



SHEET KEY

GENERAL NOTES:

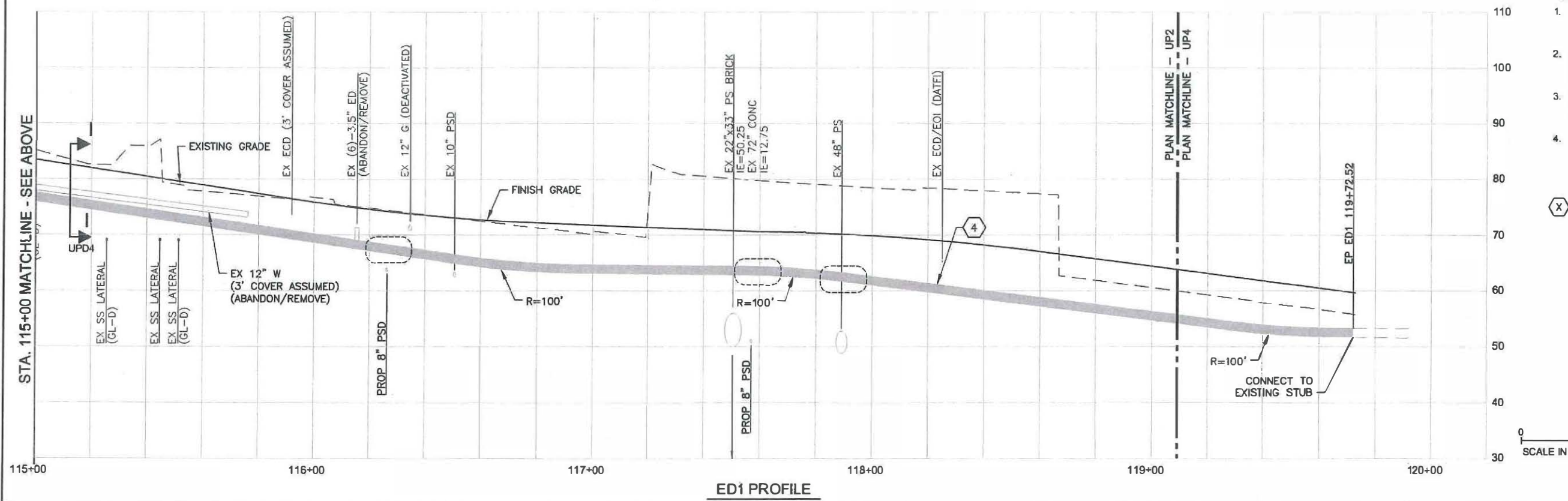
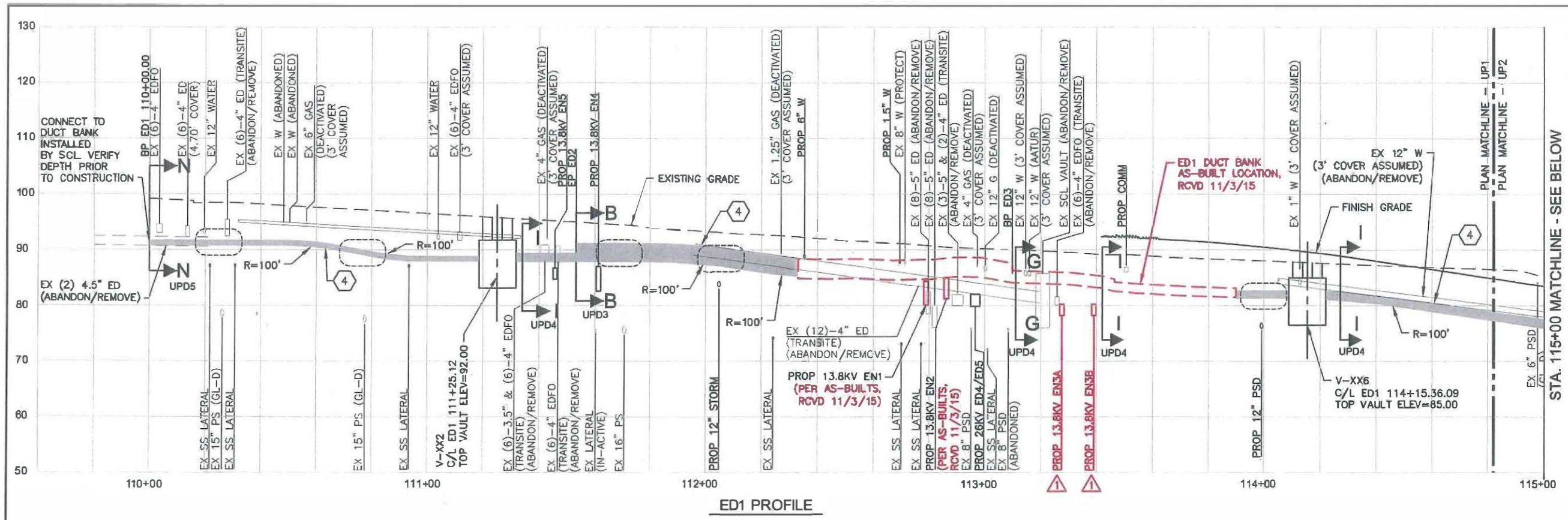
- ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
- FOR SEATTLE CITY LIGHT UNDERGROUNDING NOTES, LEGEND, AND STRUCTURE NOTES, REFER TO DRAWINGS UPN1-UPN2.
- FOR DUCT BANK ALIGNMENT INFORMATION, REFER TO DRAWINGS UPAL1-UPAL6 AND UPT1-UPT3.
- FOR DUCT BANK PROFILES, REFER TO THE FOLLOWING DRAWINGS:
 - ALIGNMENT ED1 - DRAWING UPR1
 - ALIGNMENT ED2 - DRAWING UPR2
 - ALIGNMENT ED3 - DRAWING UPR2
 - ALIGNMENT ED4 - DRAWING UPR3
 - ALIGNMENT ED5 - DRAWING UPR4
 - ALIGNMENT EN1 - DRAWING UPR7
 - ALIGNMENT EN2 - DRAWING UPR8
 - ALIGNMENT EN3 - DRAWING UPR9
 - ALIGNMENT EN4 - DRAWING UPR10
 - ALIGNMENT EN5 - DRAWING UPR10
 - ALIGNMENT EP1 - DRAWING UPR11
 - ALIGNMENT EP2 - DRAWING UPR11
 - ALIGNMENT EP3 - DRAWING UPR11
 - ALIGNMENT EP4 - DRAWING UPR11
- EXTEND 2-3" CONDUITS FOR STREETLIGHT SERVICE AND 2-3" CONDUITS FOR TRAFFIC SIGNAL SERVICE. REFER TO DRAWINGS IL5 AND PS7.
- EXTEND 2-2" CONDUITS FOR TRAFFIC SIGNAL SERVICE. REFER TO DRAWING PS7.
- CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR THE REMOVAL AND LIMITS OF REMOVAL OF THE ABANDONED DUCT BANKS NECESSARY FOR CONSTRUCTION OF THE NEW DUCT BANKS.
- REFER TO UP1 FOR DUCT BANK INFORMATION/ FLAGS FOR ALIGNMENTS OTHER THAN EN6.



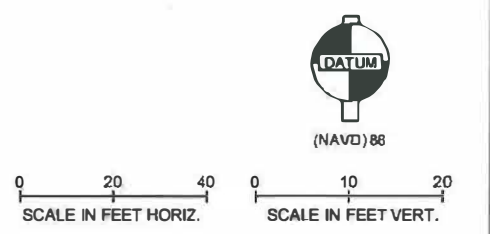
(X) CONSTRUCTION NOTE REFER TO DRAWING UPN1

NEW SHEET

FILE NAME X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\004-MVNA-CP01.dwg TIME 4:36am DATE Dec-21-15 PLOTTED BY K.BOSTON DESIGNED BY C.PARK ENTERED BY K.BOSTON CHECKED BY S.BARTLETT PROJ. ENGR. S. BEADLE REGIONAL ADM. T. TREPANIER		REGION NO. 10 STATE WASH JOB NUMBER 13A003 CONTRACT NO.	FED.AID PROJ.NO. LOCATION NO. XL-3687		kpff Consulting Engineers 1601 Fifth Avenue, Suite 1600 Seattle, Washington 98101-3665 (206) 622-5822 Fax (206) 622-8130		SR 99 ALASKAN WAY VIADUCT-REPLACEMENT NORTH ACCESS CONNECTION ENLARGED POWER PLAN	PLAN REF. NO. UP16 SHEET 218A OF 770 SHEETS
REVISION CO-125: NEW VAULT M-1 DATE 12/17/2015 CDP BY								

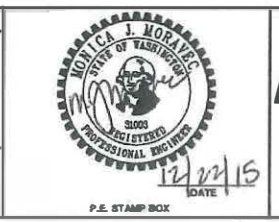


- GENERAL NOTES:**
1. ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
 2. FOR SEATTLE CITY LIGHT UNDERGROUNDING NOTES, LEGEND, AND STRUCTURE NOTES, REFER TO DRAWINGS UPN1-UPN2.
 3. FOR DUCT BANK ALIGNMENT INFORMATION, REFER TO DRAWINGS UPAL1-UPAL6 AND UPT1-UPT3.
 4. WHERE DUCT BANKS CROSS ABOVE PS AND PSD MAINS, INSTALL REINFORCING WITHIN THE DUCT BANK (PER SCL CONSTRUCTION GUIDELINE U2-11.2) A MINIMUM OF 10' BEYOND THE CROSSING
- (X) CONSTRUCTION NOTE REFER TO DRAWING UPN1



FILE NAME	X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\005-MWNA-CPR1.dwg		
TIME	4:39am		
DATE	Dec-21-15		
PLOTTED BY	J.LINEHAN		
DESIGNED BY	C.PARK		
ENTERED BY	J.LINEHAN		
CHECKED BY	S.BARTLETT		
PROJ. ENGR.	S. BEADLE		
REGIONAL ADM.	T. TREPANIER		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	CONTRACT NO.	LOCATION NO.
13A003		XL-3687
REVISION	DATE	BY
CO-125: NEW VAULT M-1	12/17/2015	CDP

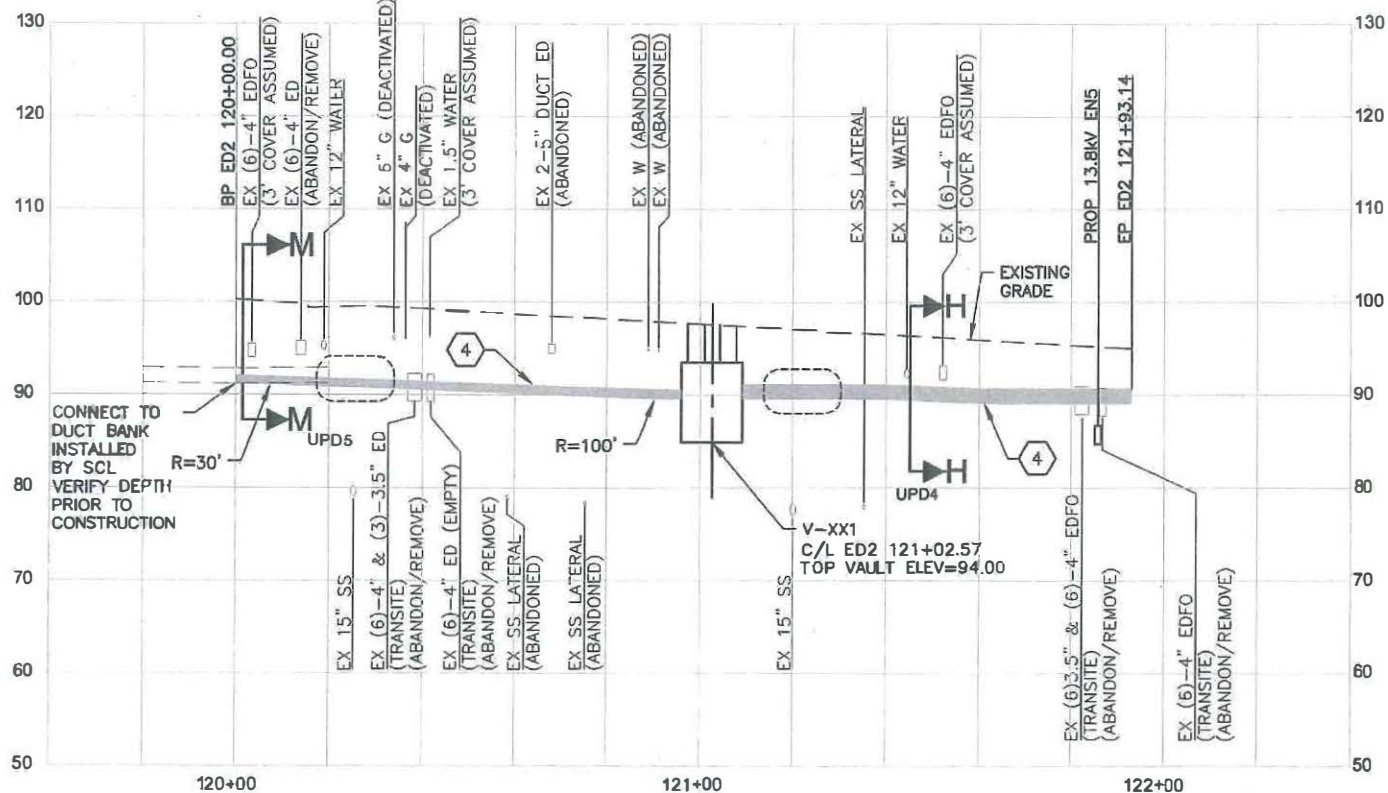


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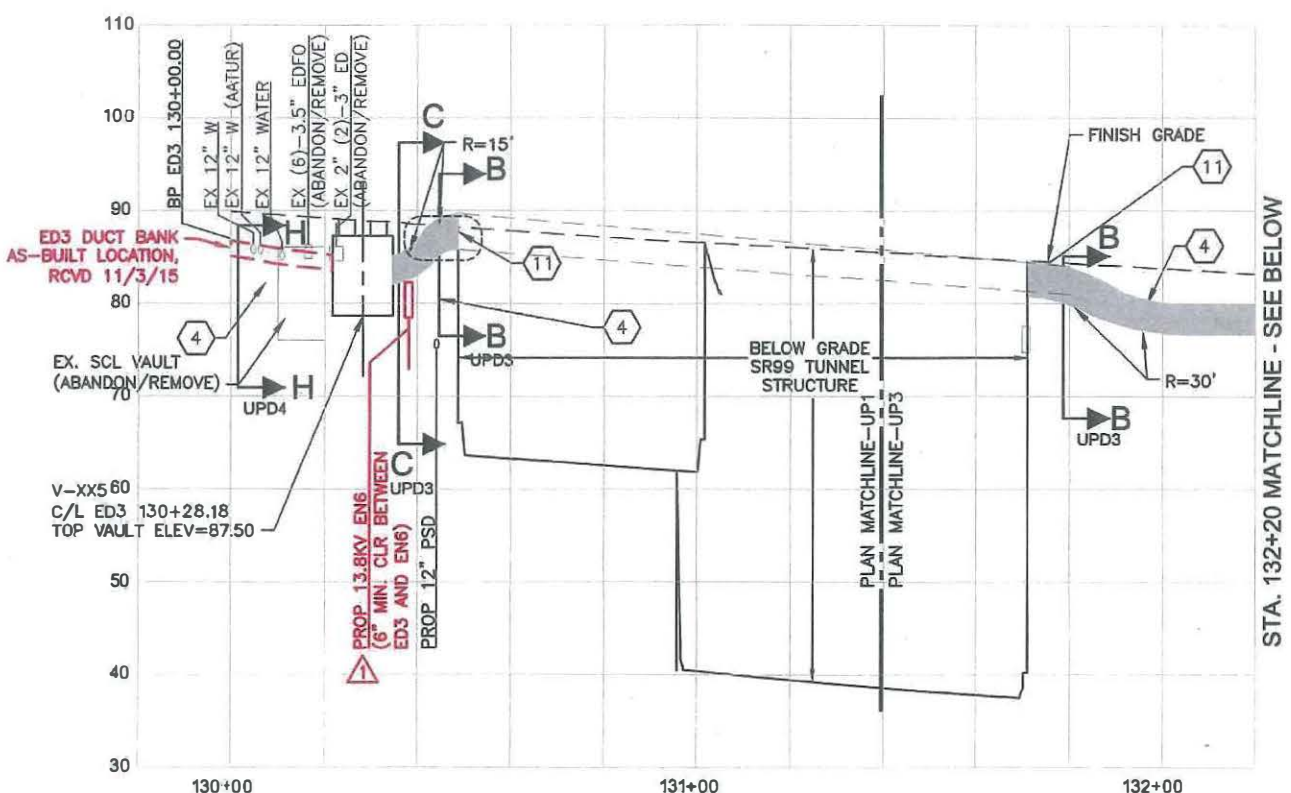


SR 99
ALASKAN WAY VIADUCT-REPLACEMENT
NORTH ACCESS CONNECTION
 POWER PROFILE

PLAN REF. NO.
UPR1
 SHEET
 219
 OF
 770
 SHEETS

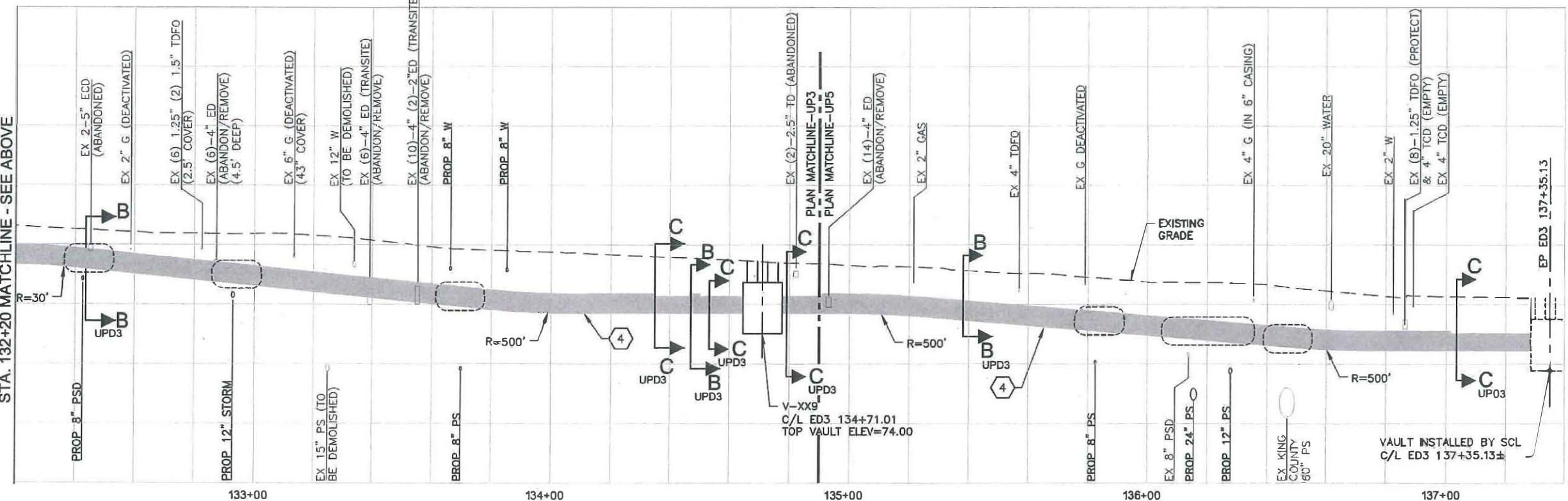


ED2 PROFILE



ED3 PROFILE

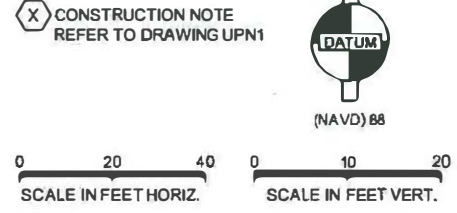
STA. 132+20 MATCHLINE - SEE BELOW



ED3 PROFILE

SHEET 12 OF 23
 CHANGE ORDER NO. 125
 CONTRACT 8549

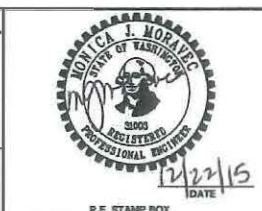
- GENERAL NOTES:**
1. ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
 2. FOR SEATTLE CITY LIGHT UNDERGROUNDING NOTES, LEGEND, AND STRUCTURE NOTES, REFER TO DRAWINGS UPN1-UPN2.
 3. FOR DUCT BANK ALIGNMENT INFORMATION, REFER TO DRAWINGS UPAL1-UPAL6 AND UPT1-UPT3.
 4. WHERE DUCT BANKS CROSS ABOVE PS AND PSD MAINS, INSTALL REINFORCING WITHIN THE DUCT BANK (PER SCL CONSTRUCTION GUIDELINE U2-11.2) A MINIMUM OF 10' BEYOND THE CROSSING



FILE NAME	X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\005-MWNA-CPR1.dwg		
TIME	4:39am		
DATE	Dec-21-15		
PLOTTED BY	J.LINEHAN		
DESIGNED BY	C.PARK		
ENTERED BY	J.LINEHAN		
CHECKED BY	S.BARTLETT		
PROJ. ENGR.	S. BEADLE		
REGIONAL ADM.	T. TREPANIER		

REVISION	DATE	BY
CO-125: NEW VAULT M-1	12/17/2015	CDP

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	CONTRACT NO.	LOCATION NO.
13A003		XL-3687

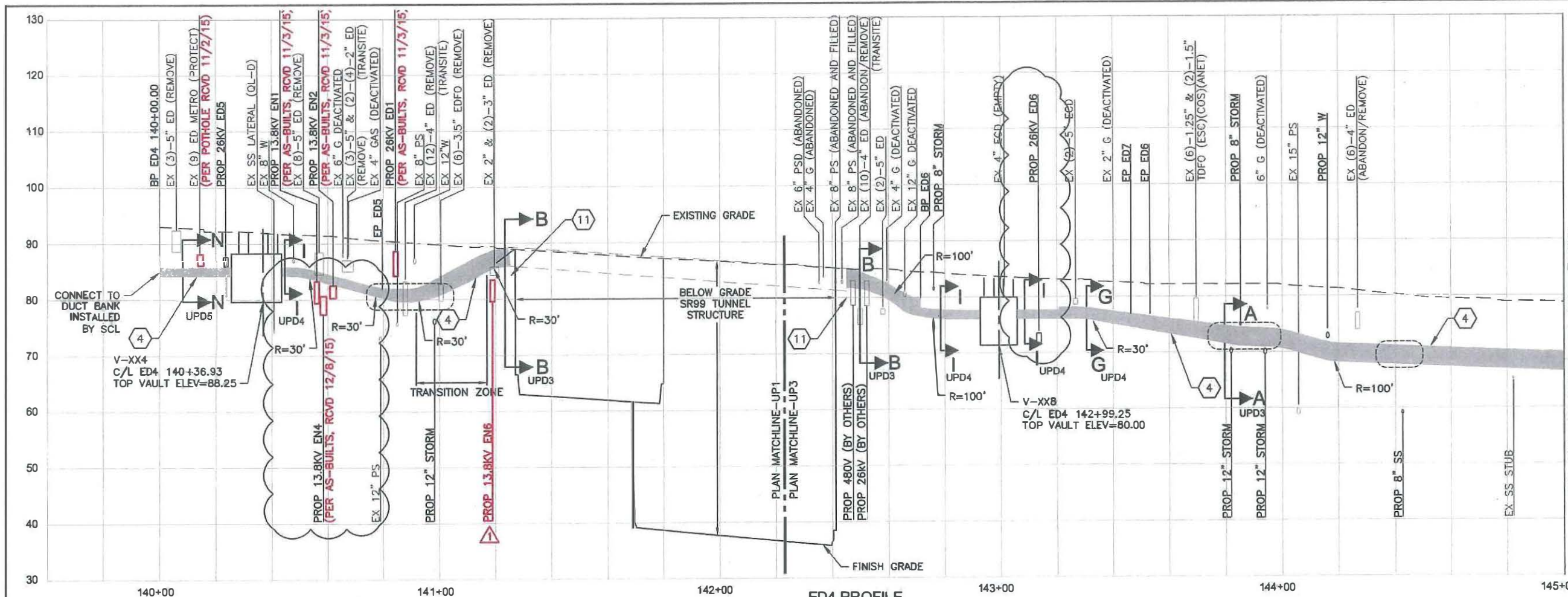


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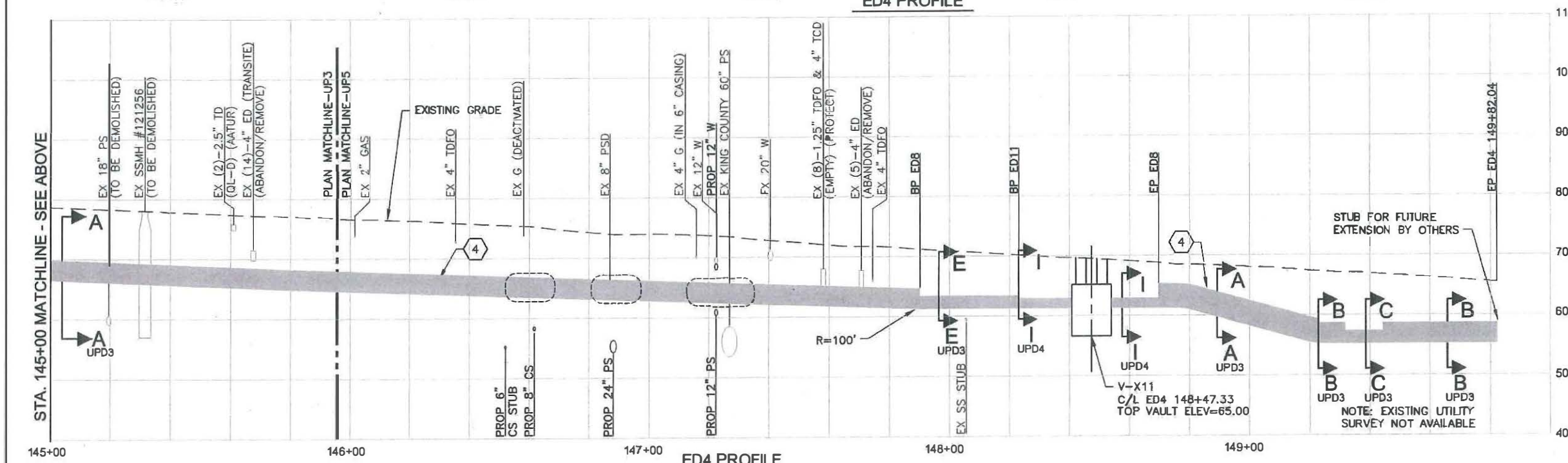


SR 99
 ALASKAN WAY VIADUCT-REPLACEMENT
 NORTH ACCESS CONNECTION
 POWER PROFILE

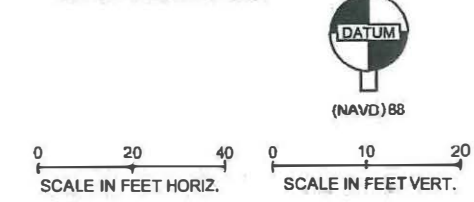
PLAN REF. NO.	SHEET
UPR2	220
	OF
	770
	SHEETS



STA. 145+00 MATCHLINE - SEE BELOW



- GENERAL NOTES:**
1. ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
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 4. WHERE DUCT BANKS CROSS ABOVE PS AND PSD MAINS, INSTALL REINFORCING WITHIN THE DUCT BANK (PER SCL CONSTRUCTION GUIDELINE U2-11.2) A MINIMUM OF 10' BEYOND THE CROSSING.
- (X) CONSTRUCTION NOTE REFER TO DRAWING UPN1



FILE NAME	X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\005-MWNA.CPR1.dwg		
TIME	4:40am		
DATE	Dec-21-15		
PLOTTED BY	J.LINEHAN		
DESIGNED BY	C.PARK		
ENTERED BY	J.LINEHAN		
CHECKED BY	S.BARTLETT		
PROJ. ENGR.	S. BEADLE		
REGIONAL ADM.	T. TREPANIER		

REVISION	DATE	BY
CO-125: NEW VAULT M-1	12/17/2015	CDP
AD1: ED4 PROFILE UPDATE	11/04/2013	CDP

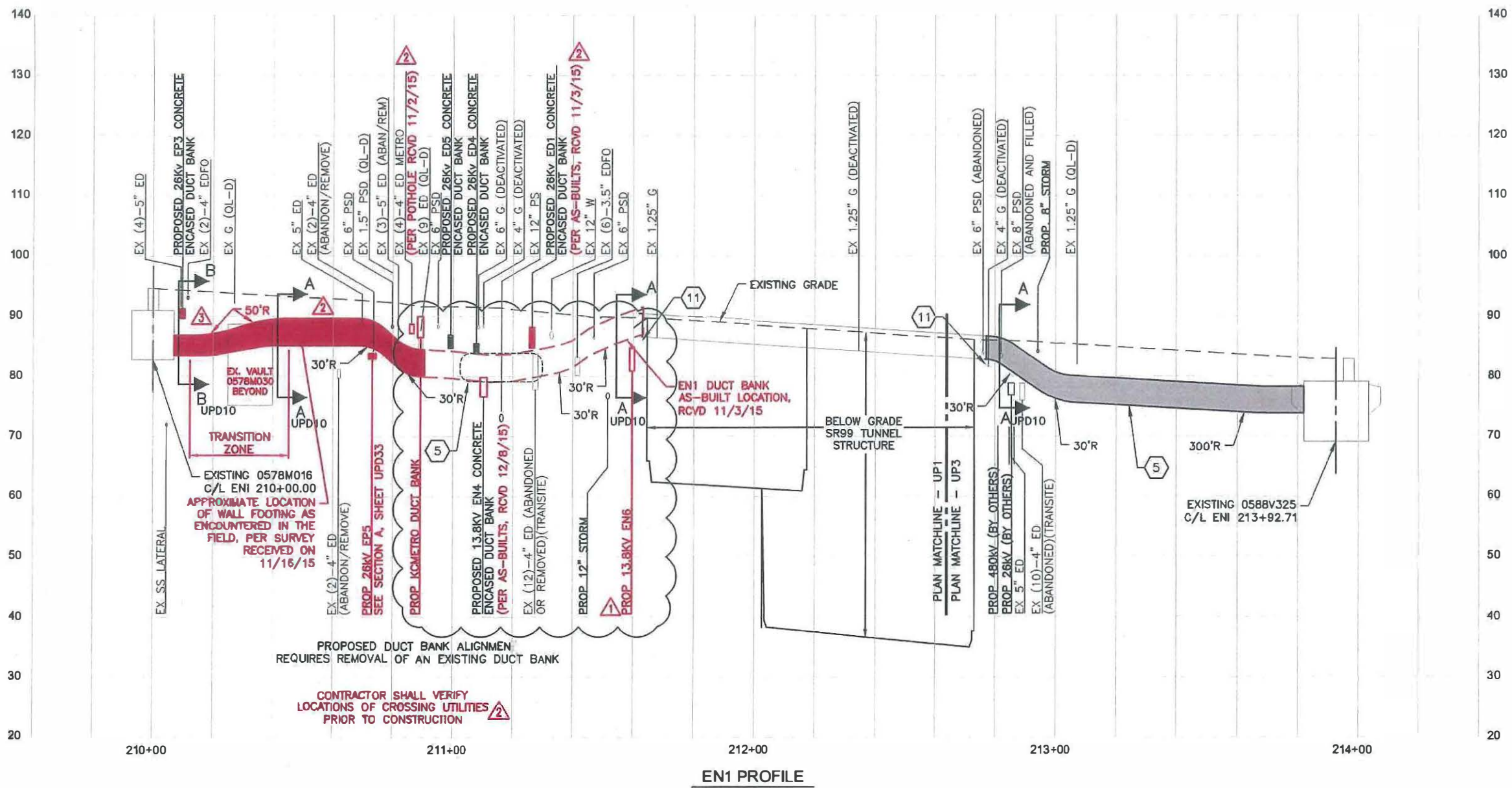
REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER	CONTRACT NO.	LOCATION NO.
13A003		XL-3687

kpff Consulting Engineers
 1601 Fifth Avenue, Suite 1600
 Seattle, Washington 98101-3665
 (206) 622-5822 Fax (206) 622-8130

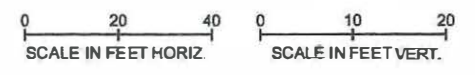


SR 99
ALASKAN WAY VIADUCT-REPLACEMENT
NORTH ACCESS CONNECTION
POWER PROFILE

PLAN REF. NO.	UPR3
SHEET	221
OF	770
SHEETS	

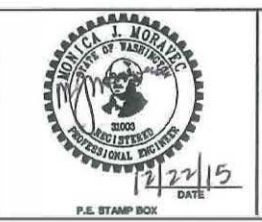


- GENERAL NOTES:**
1. ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-6555.
 2. FOR SEATTLE CITY LIGHT UNDERGROUNDING NOTES, LEGEND, AND STRUCTURE NOTES, REFER TO DRAWINGS UPN1-UPN2.
 3. FOR DUCT BANK ALIGNMENT INFORMATION, REFER TO DRAWINGS UPAL1-UPAL6 AND UPT1-UPT3.
 4. WHERE DUCT BANKS CROSS ABOVE PS AND PSD MAINS, INSTALL REINFORCING WITHIN THE DUCT BANK (PER SCL CONSTRUCTION GUIDELINE U2-11.2) A MINIMUM OF 10' BEYOND THE CROSSING
- CONSTRUCTION NOTE REFER TO DRAWING UPN1



FILENAME	X:\110000-110250110159 (Alaskan Way Viaduct North Access)\CADD\Design\005-MWNA-CPR1.dwg		
TIME	4:40am		
DATE	Dec-21-15		
PLOTTED BY	J.LINEHAN		
DESIGNED BY	C.PARK		
ENTERED BY	J.LINEHAN		
CHECKED BY	S.BARTLETT		
PROJ. ENGR.	S. BEADLE		
REGIONAL ADM.	T. TREPANIER		

REVISION	DATE	BY	FED. AID PROJ. NO.
CO-147: EP3 RELOCATION	12/17/2015	CDP	
CO-133: EN3 RELOCATION	12/17/2015	CDP	
CO-125: NEW VAULT M-1	12/17/2015	CDP	
AD1: EN1 PROFILE UPDATE	11/04/2013	CDP	
			LOCATION NO. XL-3687



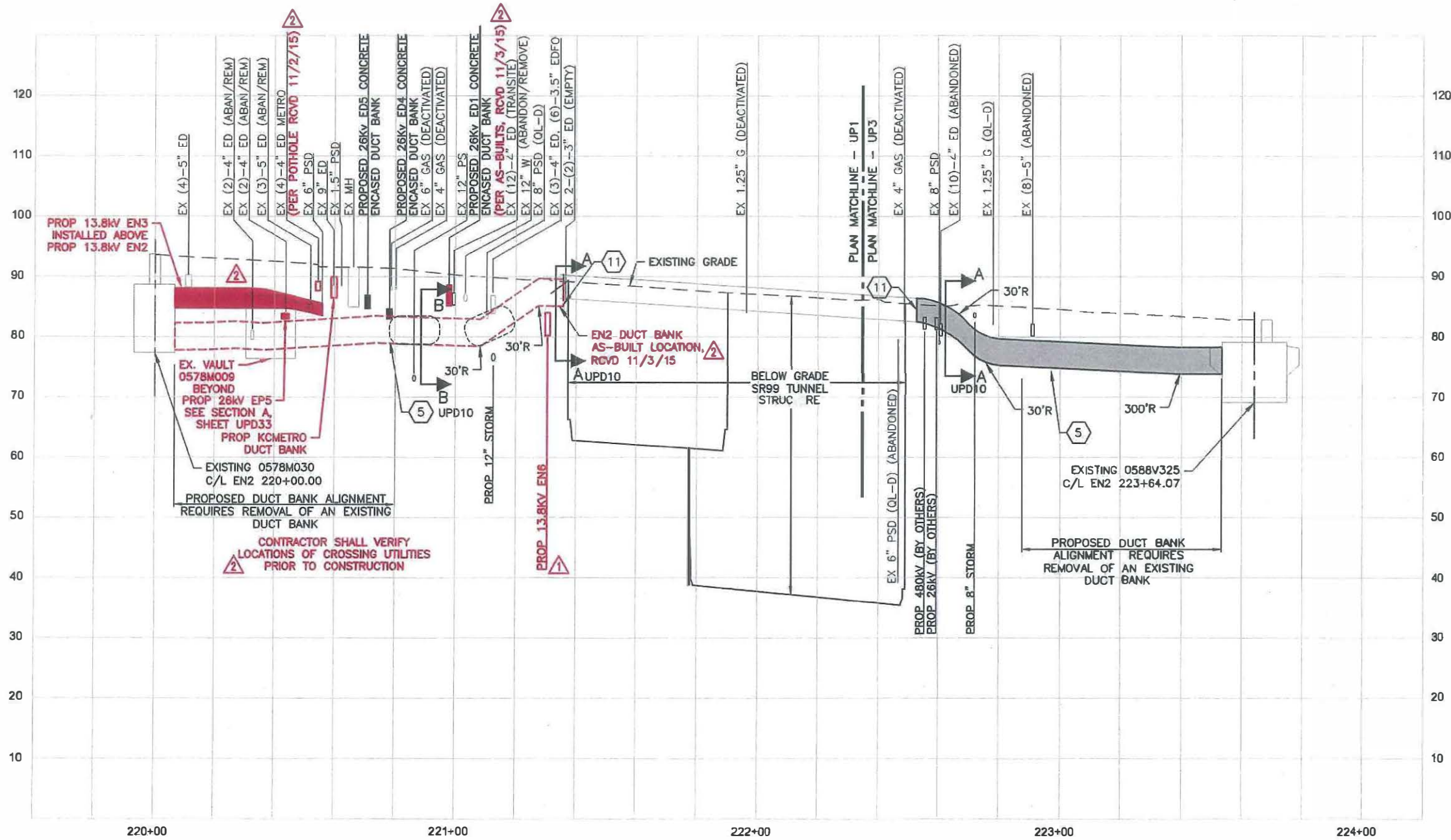
kpf Consulting Engineers
 1601 Fifth Avenue, Suite 1600
 Seattle, Washington 98101-3665
 (206) 622-5822 Fax (206) 622-8130



SR 99
**ALASKAN WAY VIADUCT-REPLACEMENT
 NORTH ACCESS CONNECTION**

POWER PROFILE

PLAN REF. NO. UPR7
SHEET 225 OF 770 SHEETS



EN2 PROFILE

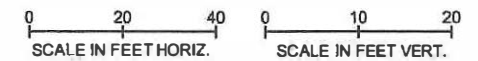
GENERAL NOTES:

1. ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
2. FOR SEATTLE CITY LIGHT UNDERGROUNDING NOTES, LEGEND, AND STRUCTURE NOTES, REFER TO DRAWINGS UPN1-UPN2.
3. FOR DUCT BANK ALIGNMENT INFORMATION, REFER TO DRAWINGS UPAL1-UPAL6 AND UPT1-UPT3.
4. WHERE DUCT BANKS CROSS ABOVE PS AND PSD MAINS, INSTALL REINFORCING WITHIN THE DUCT BANK (PER SCL CONSTRUCTION GUIDELINE U2-11.2) A MINIMUM OF 10' BEYOND THE CROSSING

CONSTRUCTION NOTE REFER TO DRAWING UPN1



(NAVD)88



FILE NAME X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\005-MWNA-CPR1.dwg

TIME	4:40am
DATE	Dec-21-15
PLOTTED BY	J.LINEHAN
DESIGNED BY	C.PARK
ENTERED BY	J.LINEHAN
CHECKED BY	S.BARTLETT
PROJ. ENGR.	S. BEADLE
REGIONAL ADM.	T. TREPANIER

REVISION	DATE	BY
CO-133: EN3 RELOCATION	12/17/2015	CDP
CO-125: NEW VAULT M-1	12/17/2015	CDP

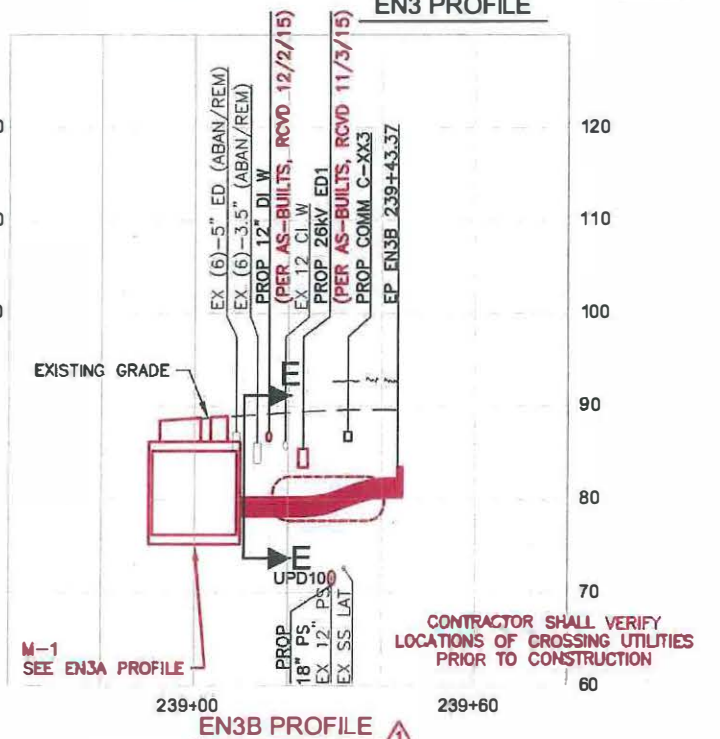
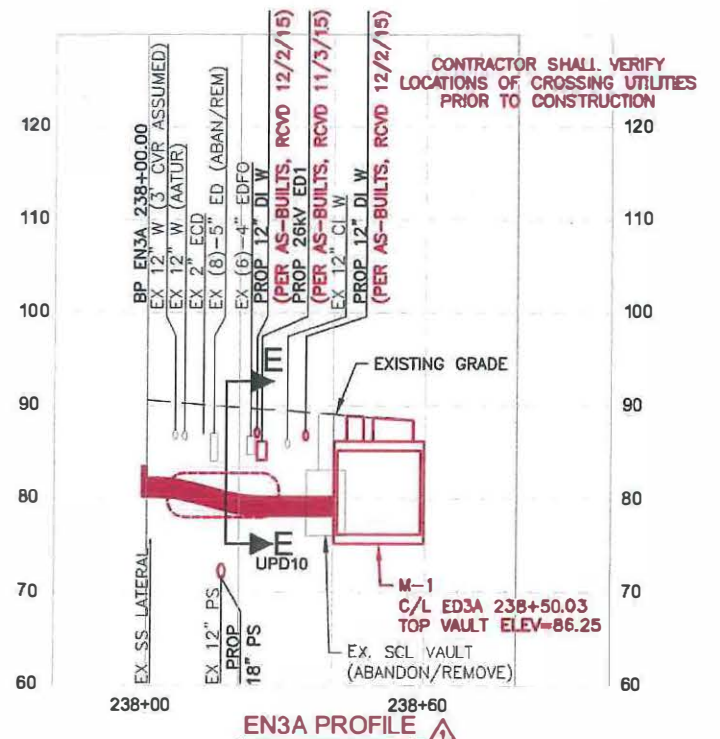
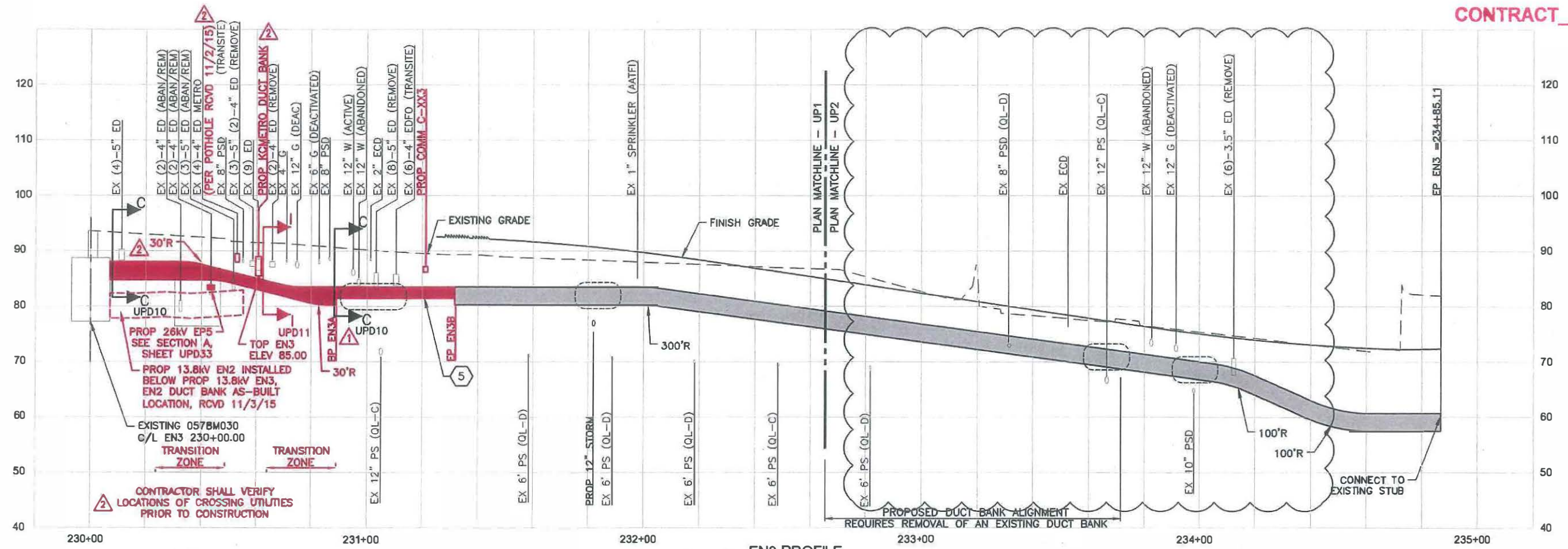
REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	CONTRACT NO.	LOCATION NO.
13A003		XL-3687



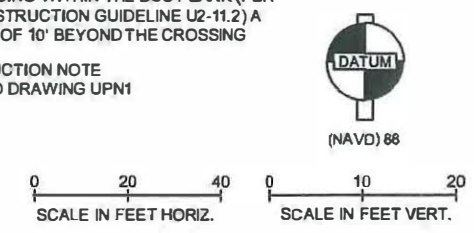
kpff Consulting Engineers
 1601 Fifth Avenue, Suite 1600
 Seattle, Washington 98101-3665
 (206) 622-5822 Fax (206) 622-8130



SR 99	PLAN REF. NO.
ALASKAN WAY VIADUCT-REPLACEMENT	UPR8
NORTH ACCESS CONNECTION	
POWER PROFILE	SHEET 226 OF 770 SHEETS



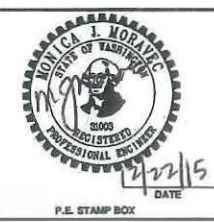
- GENERAL NOTES:**
1. ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
 2. FOR SEATTLE CITY LIGHT UNDERGROUNDING NOTES, LEGEND, AND STRUCTURE NOTES, REFER TO DRAWINGS UPN1-UPN2.
 3. FOR DUCT BANK ALIGNMENT INFORMATION, REFER TO DRAWINGS UPAL1-UPAL6 AND UPT1-UPT3.
 4. WHERE DUCT BANKS CROSS ABOVE PS AND PSD MAINS, INSTALL REINFORCING WITHIN THE DUCT BANK (PER SCL CONSTRUCTION GUIDELINE U2-11.2) A MINIMUM OF 10' BEYOND THE CROSSING
- (X) CONSTRUCTION NOTE REFER TO DRAWING UPN1



FILENAME	X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\005-MWNA-CPR1.dwg		
TIME	4:40am		
DATE	Dec-21-15		
PLOTTED BY	J.LINEHAN		
DESIGNED BY	C.PARK		
ENTERED BY	J.LINEHAN		
CHECKED BY	S.BARTLETT		
PROJ. ENGR.	S. BEADLE		
REGIONAL ADM.	T. TREPANIER		

REVISION	DATE	BY
2	12/17/2015	CDP
1	12/17/2015	CDP
	11/04/2013	CDP

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	CONTRACT NO.	LOCATION NO.
13A003		XL-3687

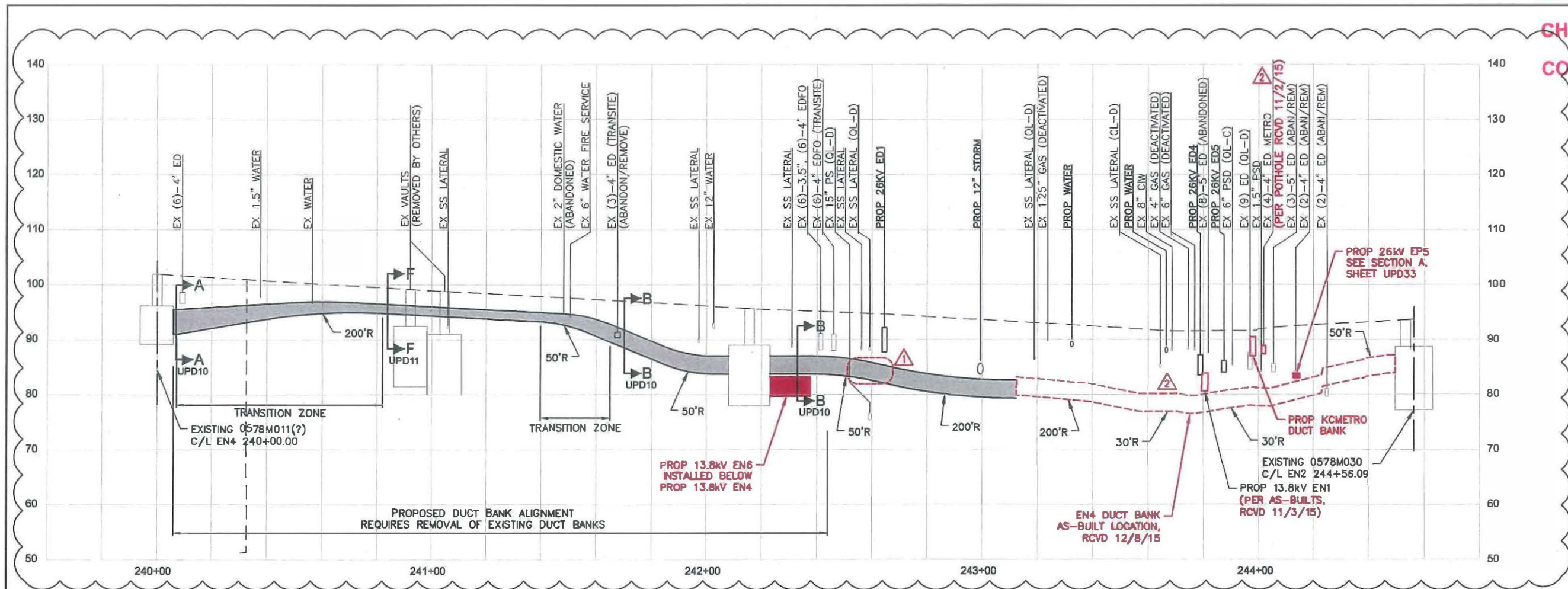


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 Seattle, Washington 98101-3665
 (206) 622-5822 Fax (206) 622-8130

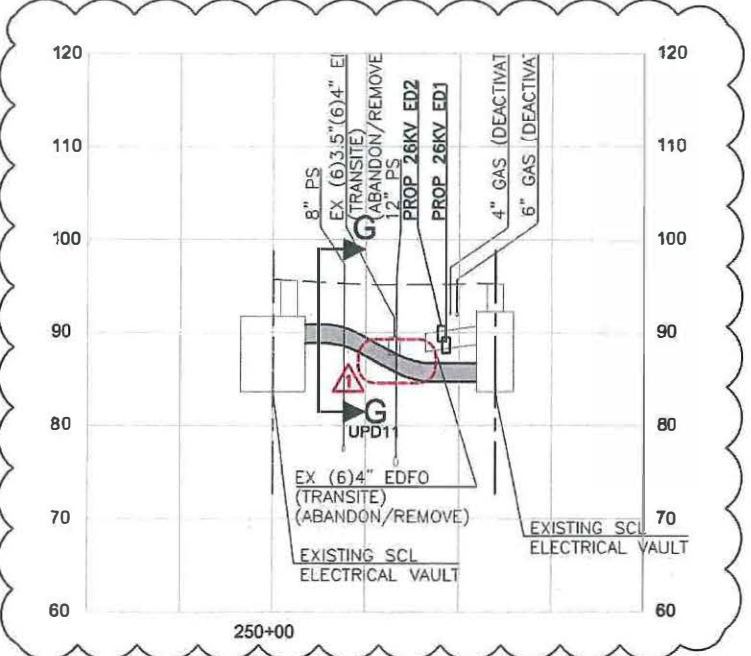


SR 99
ALASKAN WAY VIADUCT-REPLACEMENT
 NORTH ACCESS CONNECTION
 POWER PROFILE

PLAN REF. NO.	UPR9
SHEET	227
OF	770
SHEETS	



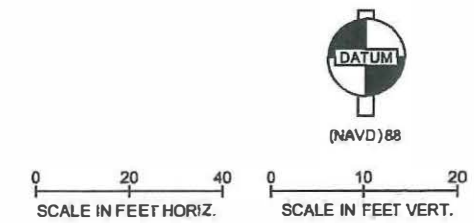
EN4 PROFILE



EN5 PROFILE

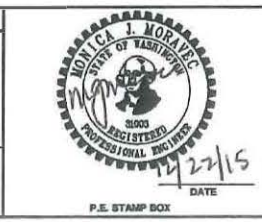
GENERAL NOTES:

1. ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
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- (X) CONSTRUCTION NOTE REFER TO DRAWING UPN1



FILE NAME	X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\005-MWNA-CPR1.dwg		
TIME	4:40am		
DATE	Dec-21-15		
PLOTTED BY	J.LINEHAN		
DESIGNED BY	C.PARK		
ENTERED BY	J.LINEHAN		
CHECKED BY	S.BARTLETT		
PROJ. ENGR.	S. BEADLE		
REGIONAL ADM.	T. TREPANIER		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JO# NUMBER	CONTRACT NO.	LOCATION NO.
13A003		XL-3687
REVISION	DATE	BY
CO-133: EN3 RELOCATION	12/17/2015	CDP
CO-125: NEW VAULT M-1	12/17/2015	CDP
AD1: EN4 PROFILE ADDED, EN5 PROFILE UPDATE	11/04/2013	GDP

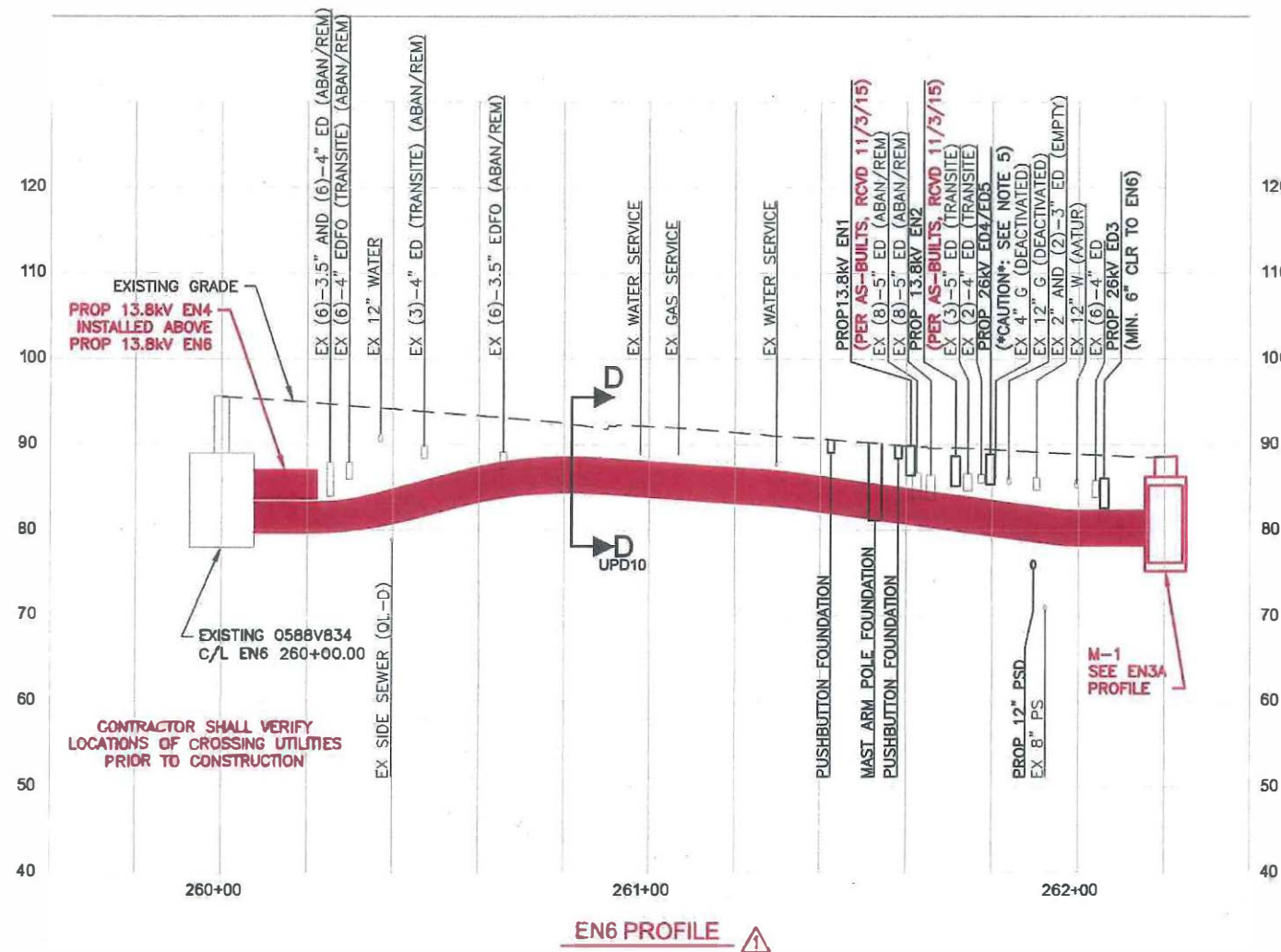


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SR 99
ALASKAN WAY VIADUCT-REPLACEMENT
NORTH ACCESS CONNECTION
 POWER PROFILE

PLAN REF. NO.	UPR10
SHEET	228
OF	770
SHEETS	



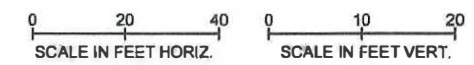
GENERAL NOTES:

1. ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
2. FOR SEATTLE CITY LIGHT UNDERGROUNDING NOTES, LEGEND, AND STRUCTURE NOTES, REFER TO DRAWINGS UPN1-UPN2.
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5. THE ED4/5 DUCT BANK HAS BEEN IDENTIFIED BY SCL TO BE AN ENERGIZED DUCT BANK. CONTRACTOR SHALL COORDINATE WITH SCL TO IDENTIFY OTHER ENERGIZED FACILITIES IN THE VICINITY, AND TO SUPPORT EXISTING DUCT BANKS TO REMAIN.

(X) CONSTRUCTION NOTE REFER TO DRAWING UPN1



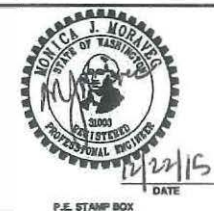
(NAVD)88



NEW SHEET

FILE NAME X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\ICADD\Design\005-MWNA-CPR1.dwg

TIME	4:40am	REGION NO.	10	STATE	WASH	FED.AID PROJ.NO.	
DATE	Dec-21-15	JOB NUMBER	13A003	CONTRACT NO.		LOCATION NO.	XL-3687
PLOTTED BY	K.BOSTON	DATE	12/17/2015	BY	CDP		
DESIGNED BY	C.PARK	REVISION					
ENTERED BY	K.BOSTON						
CHECKED BY	S.BARTLETT						
PROJ. ENGR.	S. BEADLE						
REGIONAL ADM.	T. TREPANIER						

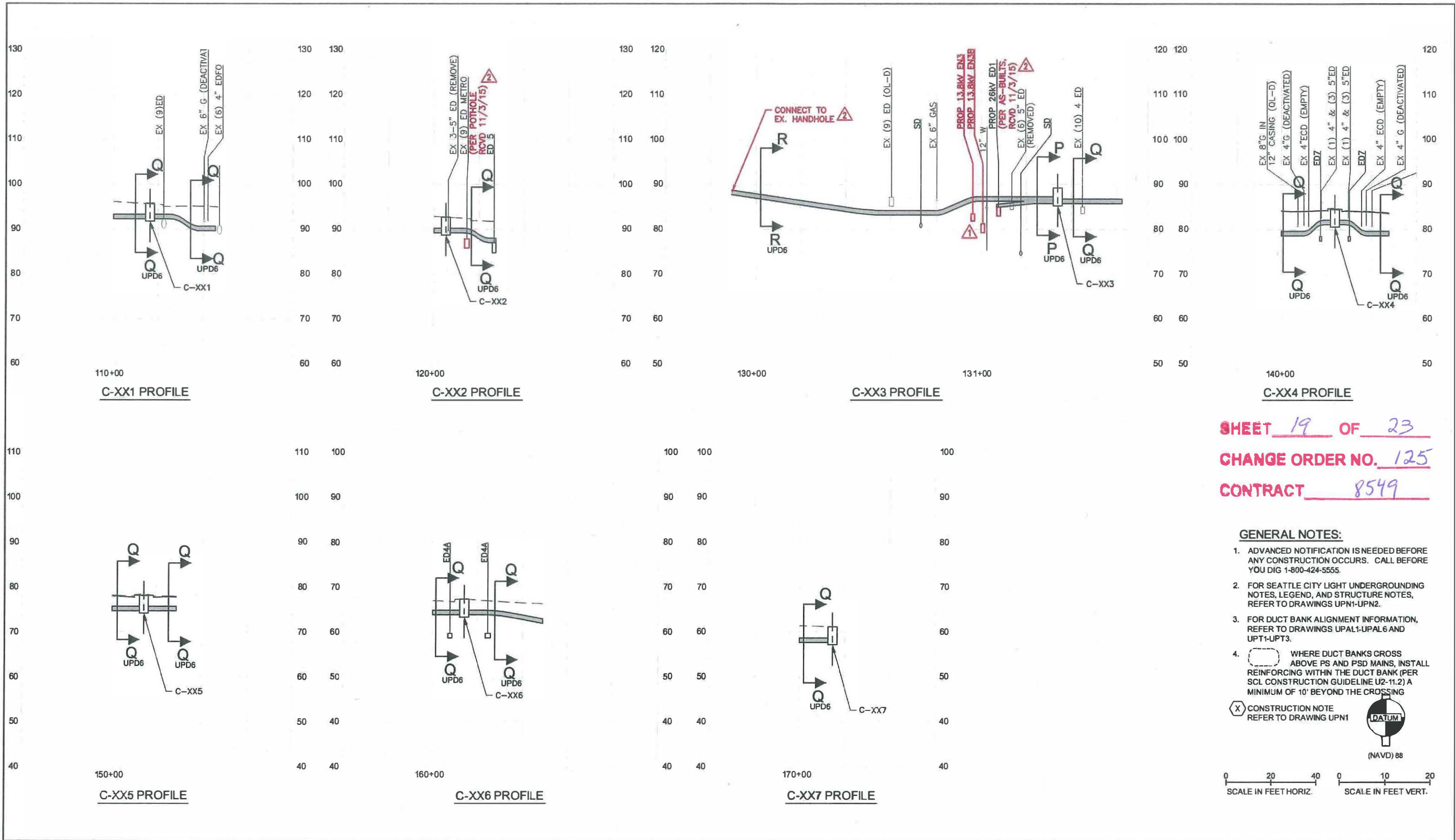


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 1601 Fifth Avenue, Suite 1600
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 (206) 622-5822 Fax (206) 622-8130



SR 99
ALASKAN WAY VIADUCT-REPLACEMENT
NORTH ACCESS CONNECTION
 POWER PROFILE

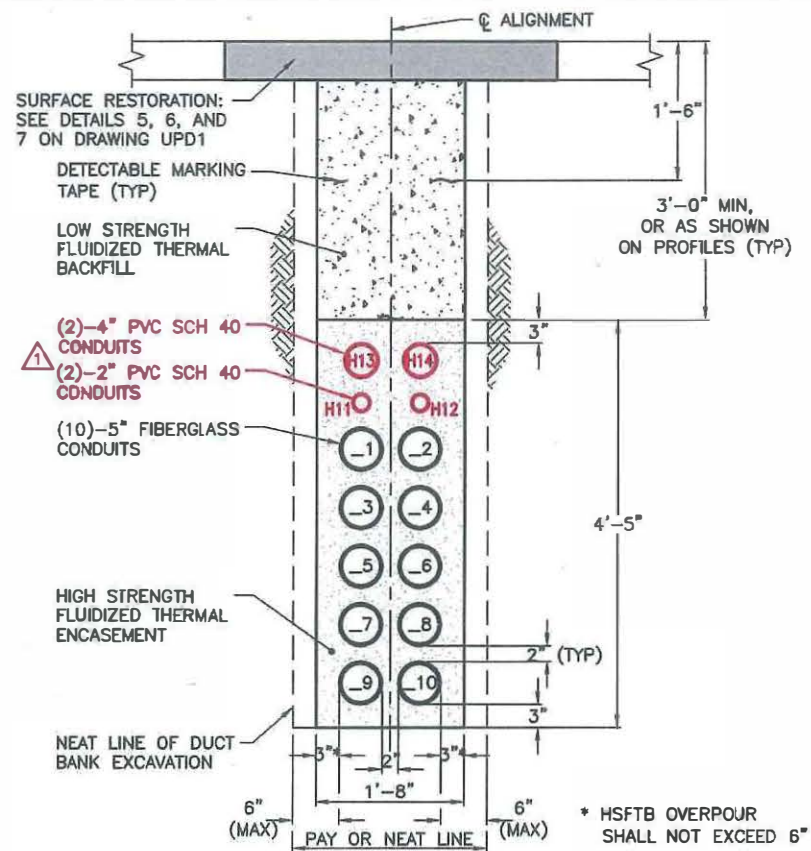
PLAN REF. NO.
 UPR10A
 SHEET
 228A
 OF
 770
 SHEETS



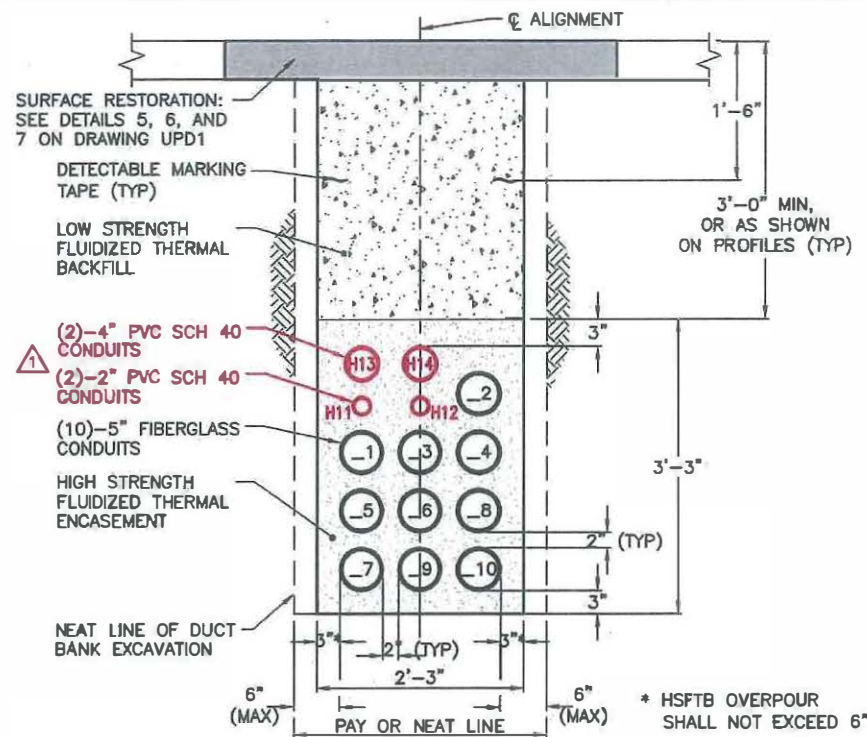
SHEET 19 OF 23
 CHANGE ORDER NO. 125
 CONTRACT 8549

- GENERAL NOTES:**
- ADVANCED NOTIFICATION IS NEEDED BEFORE ANY CONSTRUCTION OCCURS. CALL BEFORE YOU DIG 1-800-424-5555.
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 - FOR DUCT BANK ALIGNMENT INFORMATION, REFER TO DRAWINGS UPAL1-UPAL6 AND UPT1-UPT3.
 - WHERE DUCT BANKS CROSS ABOVE PS AND PSD MAINS, INSTALL REINFORCING WITHIN THE DUCT BANK (PER SCL CONSTRUCTION GUIDELINE U2-11.2) A MINIMUM OF 10' BEYOND THE CROSSING
- (X) CONSTRUCTION NOTE REFER TO DRAWING UPN1
- DATUM
- (NAVD) 88
- 0 20 40 0 10 20
 SCALE IN FEET HORIZ. SCALE IN FEET VERT.

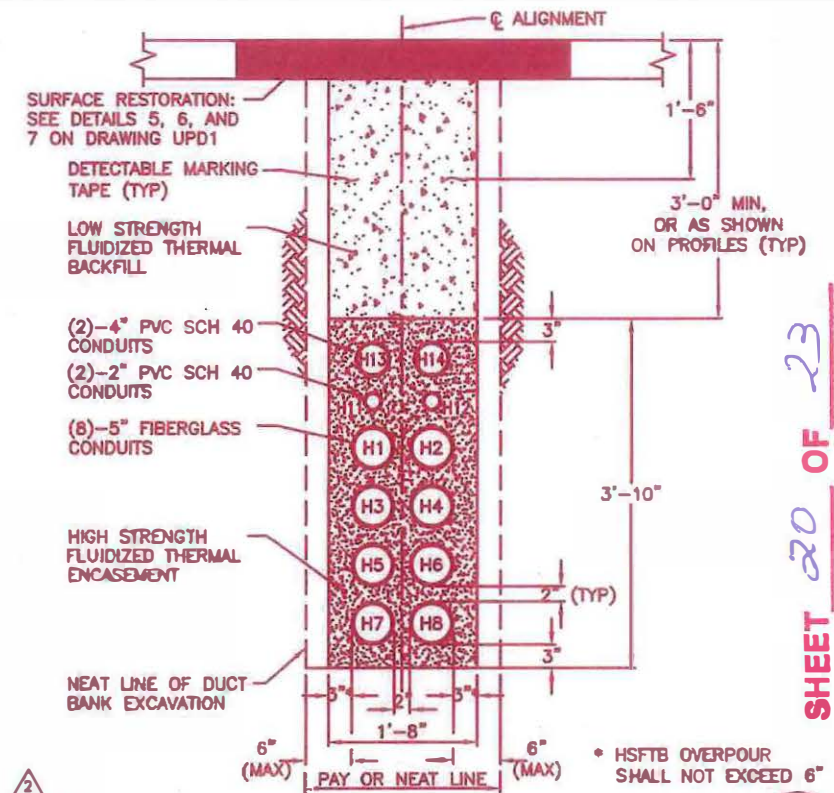
FILE NAME X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\005-MWNA.CPR1.dwg				REGION NO. 10	STATE WASH	FED.AID PROJ.NO.		 Consulting Engineers 1601 Fifth Avenue, Suite 1600 Seattle, Washington 98101-3665 (206) 622-5822 Fax (206) 622-8130	 Washington State Department of Transportation	SR 99 ALASKAN WAY VIADUCT-REPLACEMENT NORTH ACCESS CONNECTION	PLAN REF. NO. UPR12
TIME 4:41am	DATE Dec-21-15	DESIGNED BY C.PARK	ENTERED BY J.LINEHAN	CHECKED BY S.BARTLETT	PROJ. ENGR. S. BEADLE	REGIONAL ADM. T. TREPANIER					REVISION



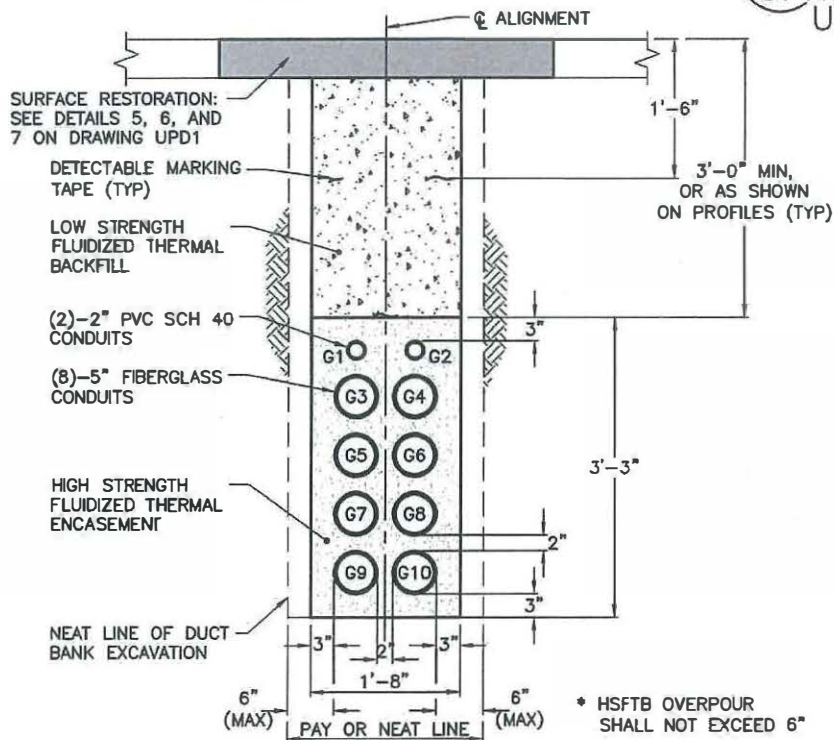
13.8kV DISTRIBUTION DUCT BANK SECTION **A**
SCALE: 1"=1'
UPR7
UPR8



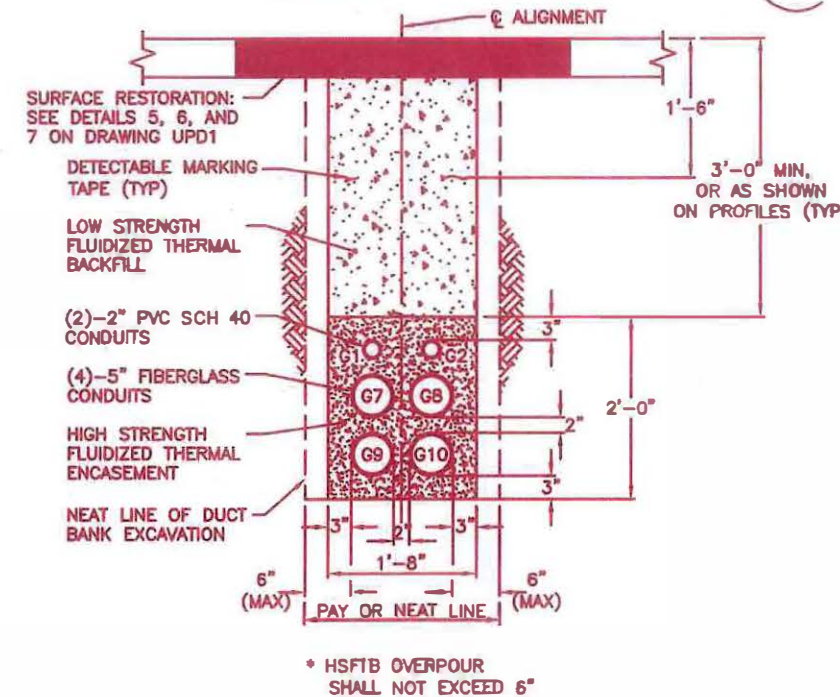
13.8kV DISTRIBUTION DUCT BANK SECTION **B**
SCALE: 1"=1'
UPR7
UPR8



13.8kV DISTRIBUTION DUCT BANK SECTION **D**
SCALE: 1"=1'



13.8kV DISTRIBUTION DUCT BANK SECTION **C**
SCALE: 1"=1'
UPR9



13.8kV DISTRIBUTION DUCT BANK SECTION **E**
SCALE: 1"=1'

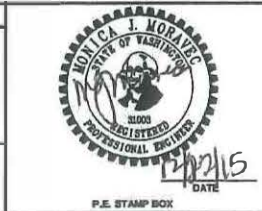
DISTRIBUTION DUCT BANK SECTION NOTES

1. DIMENSIONAL ROUNDING: FOR DUCT BANK WIDTHS/HEIGHTS, DIMENSIONS HAVE BEEN ROUNDED UP TO THE NEAREST INCH. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE BOTTOM, SIDE AND TOP MINIMUM ENCASUREMENT DIMENSIONS ARE OBTAINED. ENCASUREMENT OVERPOUR SHALL NOT EXCEED 6", UNLESS SPECIFICALLY NOTED.
2. ANCHOR SPACERS WITH #4 STEEL REINFORCEMENT AND STEEL WIRE TIES.

SHEET 20 OF 23
 CHANGE ORDER NO. 125
 CONTRACT 8549

FILE NAME	X:\110000-110250110159 (Alaskan Way Viaduct North Access)\CADD\Design\003-MWNA-CPD1.dwg		
TIME	4:42am		
DATE	Dec-21-15		
PLOTTED BY	J.LINEHAN		
DESIGNED BY	C.PARK		
ENTERED BY	J.LINEHAN		
CHECKED BY	S.BARTLETT		
PROJ. ENGR.	S. BEADLE		
REGIONAL ADM.	T. TREPANIER		
REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER	CONTRACT NO.	LOCATION NO.
13A003		XL-3687

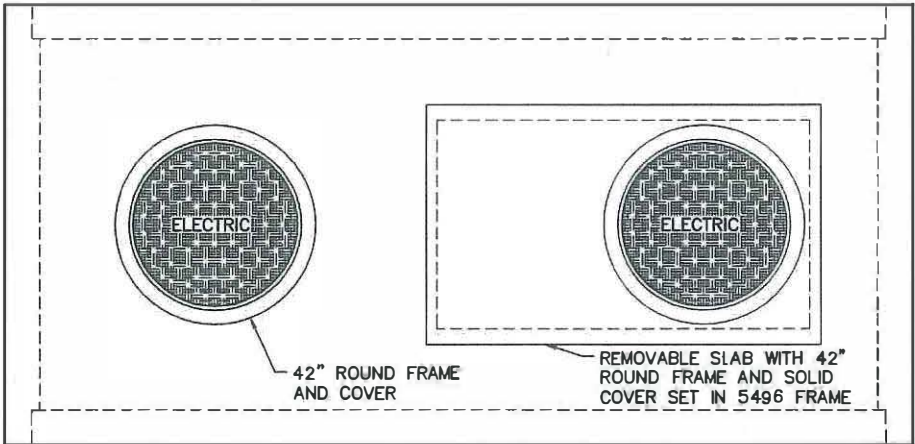
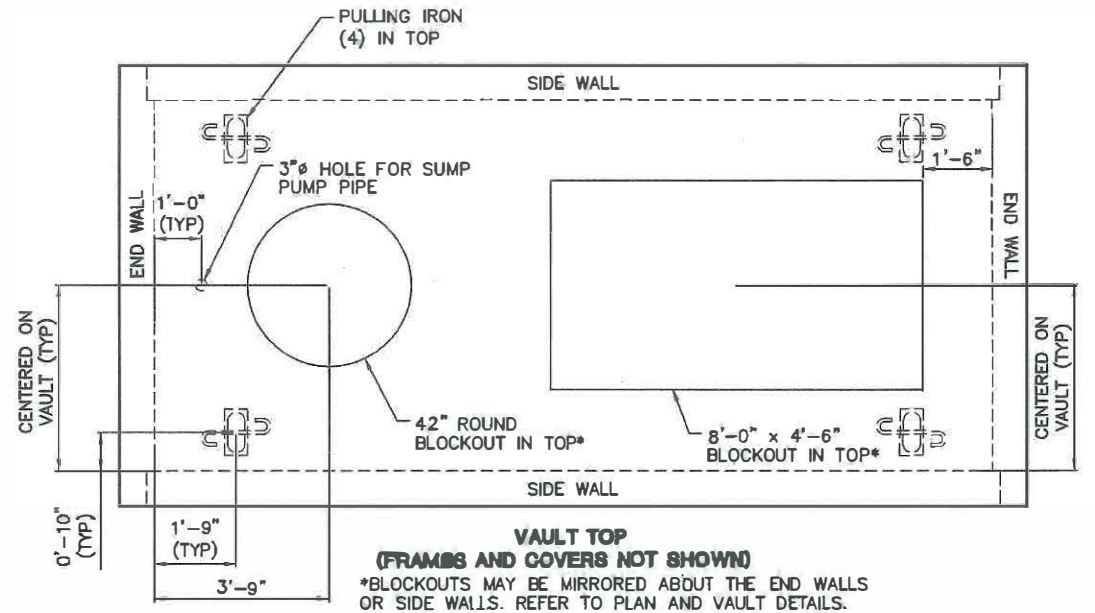
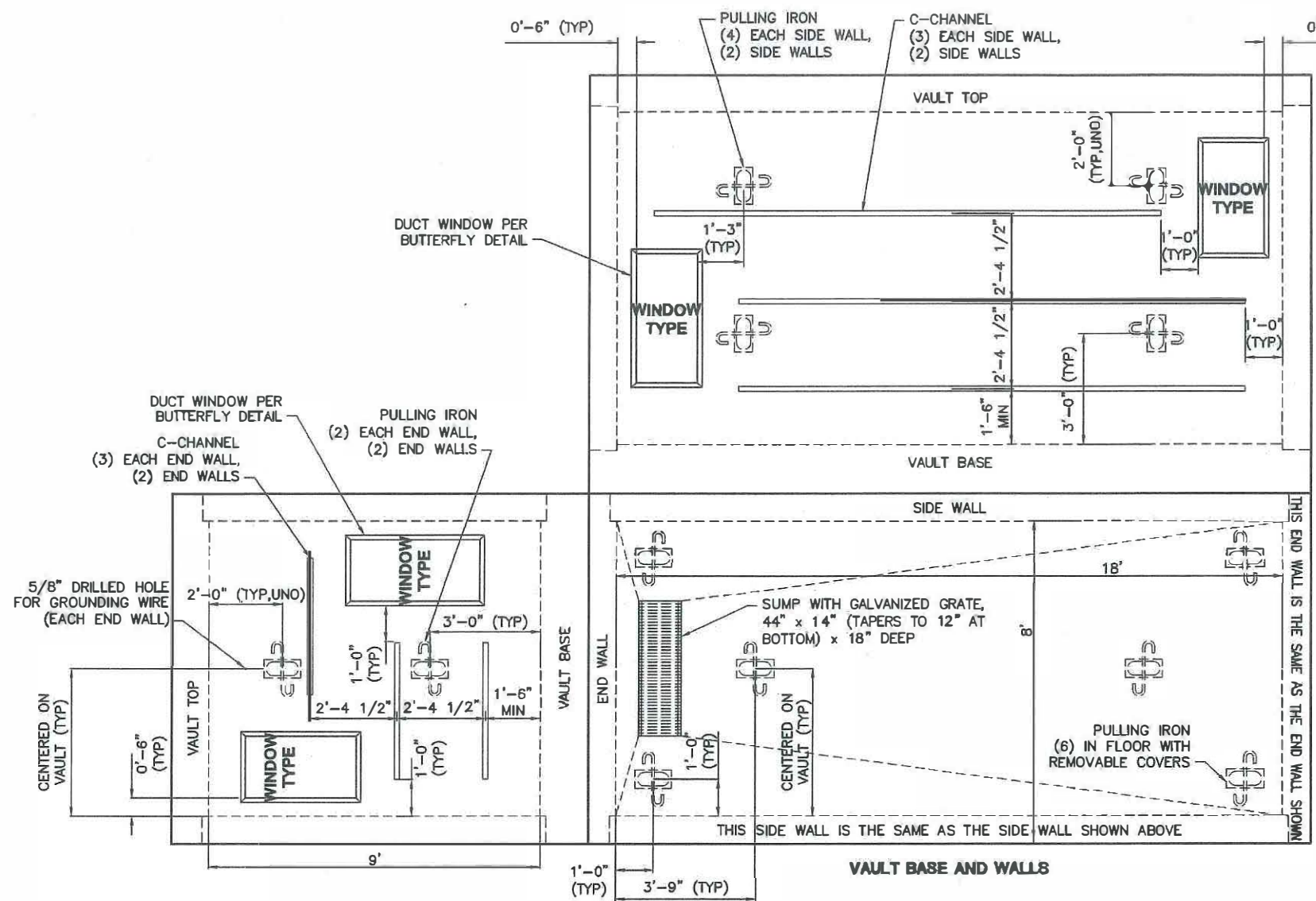


kptf Consulting Engineers
 1601 Fifth Avenue, Suite 1600
 Seattle, Washington 98101-3665
 (206) 622-5822 Fax (206) 622-8130



SR 99
**ALASKAN WAY VIADUCT-REPLACEMENT
 NORTH ACCESS CONNECTION**
 POWER DETAILS

PLAN REF. NO.	UPD10
SHEET	240
OF	770
SHEETS	



SCL 818 PANEL VAULT TYPICAL DETAIL (1)
SCALE: 1"=2'

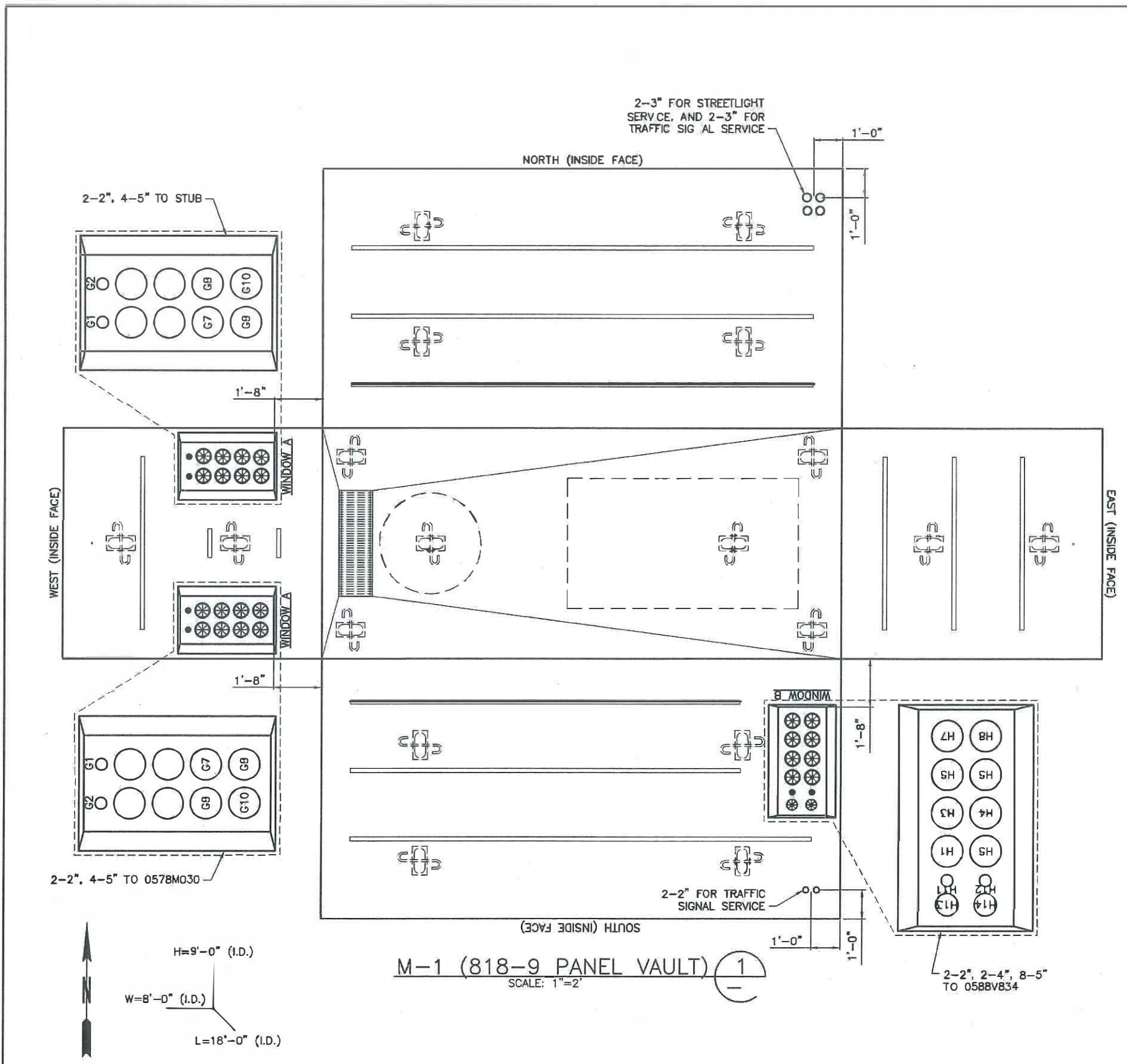
NOTES

- REF TO BUTTERFLY DETAILS AND PLANS FOR CONDUITS REQUIRED AT EACH VAULT. THE VAULT BUTTERFLY DETAILS WILL INDICATE THE VAULT OR FEATURE THAT THE CONDUITS COME FROM.
- BYPASSING SCL COMMUNICATION CONDUITS SHALL NOT BE INSTALLED ABOVE THE VAULT LID, UNLESS SPECIFICALLY NOTED, AS THIS WOULD PREVENT FUTURE REMOVAL OF THE VAULT LID. REFER TO THE PLANS FOR COMMUNICATION CONDUIT BYPASS ROUTING.
- PROVIDE PULLING IRONS RATED FOR A MINIMUM OF 20K MAXIMUM WORKING TENSION AND 40K ULTIMATE STRENGTH.
- MULTISECTION VAULTS SHALL INCORPORATE EITHER SHIPLAP OR TONGUE AND GROOVE JOINTS UTILIZING SILICONE, POLYMERIC, OR ELASTOMERIC SEALANTS.
- VAULTS SHALL BE DESIGNED TO WITHSTAND EXTERNAL LOADINGS AS REQUIRED IN THE PROJECT SPECIFICATIONS AND SCL MATERIAL STANDARDS.
- VAULT ACCESS COVER SHALL BE ROUND 42" DIAMETER FRAME AND COVER LABELED "ELECTRIC."
- PULLING IRONS SHOWN FIGURATIVELY. VAULT MANUFACTURER SHALL ROTATE PULLING IRONS AS NEEDED BASED ON THEIR STRUCTURAL CALCULATIONS.
- VAULT GROUNDING: VAULT GROUNDING SHALL CONFORM WITH SCL CONSTRUCTION GUIDELINES/STANDARDS NVH-80 AND 0461.10.

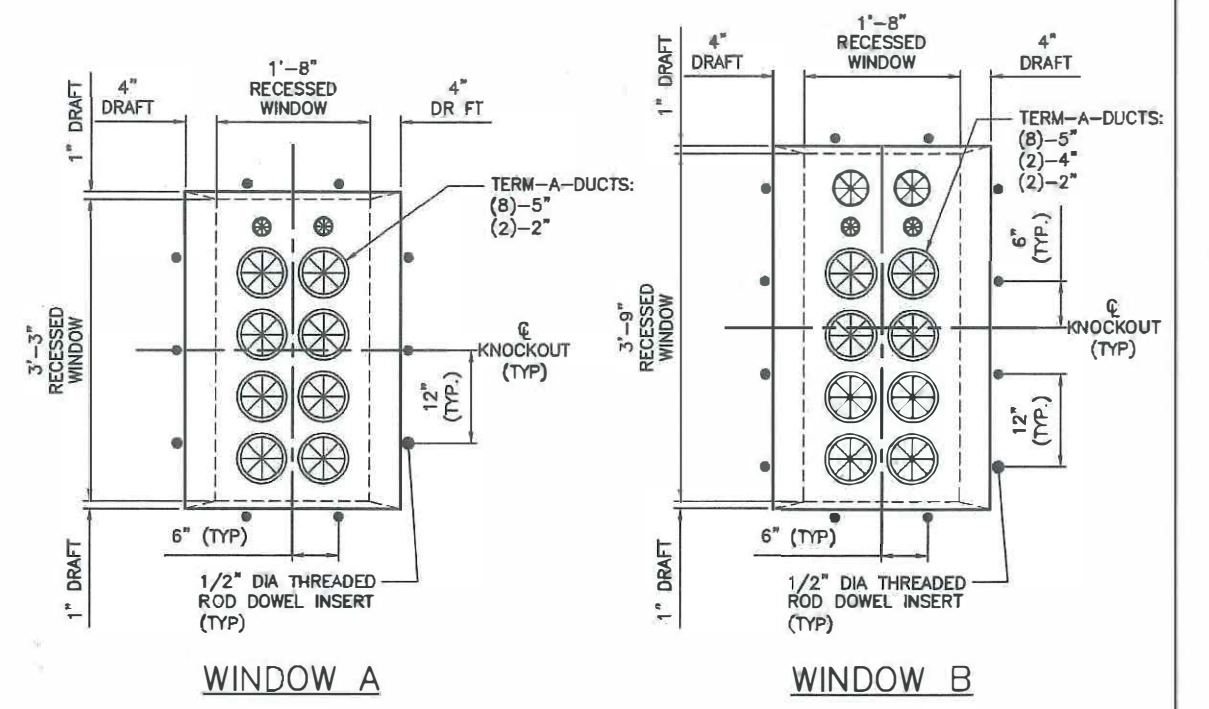
SHEET 21 OF 23
CHANGE ORDER NO. 125
CONTRACT 8549

NEW SHEET

FILE NAME X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\003-MWNA-CPD2.dwg		REGION NO.	STATE	FED.AID PROJ.NO.				SR 99 ALASKAN WAY VIADUCT-REPLACEMENT NORTH ACCESS CONNECTION	PLANREF. NO.
TIME 4:42am	DATE Dec-21-15	10	WASH						UPD19A
PLOTTED BY K.BOSTON	DESIGNED BY C.PARK	JOB NUMBER 13A003	CONTRACT NO.	LOCATION NO. XL-3687				SHEET 249A OF 770 SHEETS	
ENTERED BY K.BOSTON	CHECKED BY S.BARTLETT	DATE 12/17/2015	BY CDP				POWER DETAILS		
PROJ. ENGR. S. BEADLE	REGIONAL ADM. T. TREPANIER	REVISION							



M-1 (818-9) PANEL VAULT (1)
SCALE: 1"=2'



SCL PANEL VAULT DUCT WINDOW DETAILS (2)
SCALE: 1"=1'

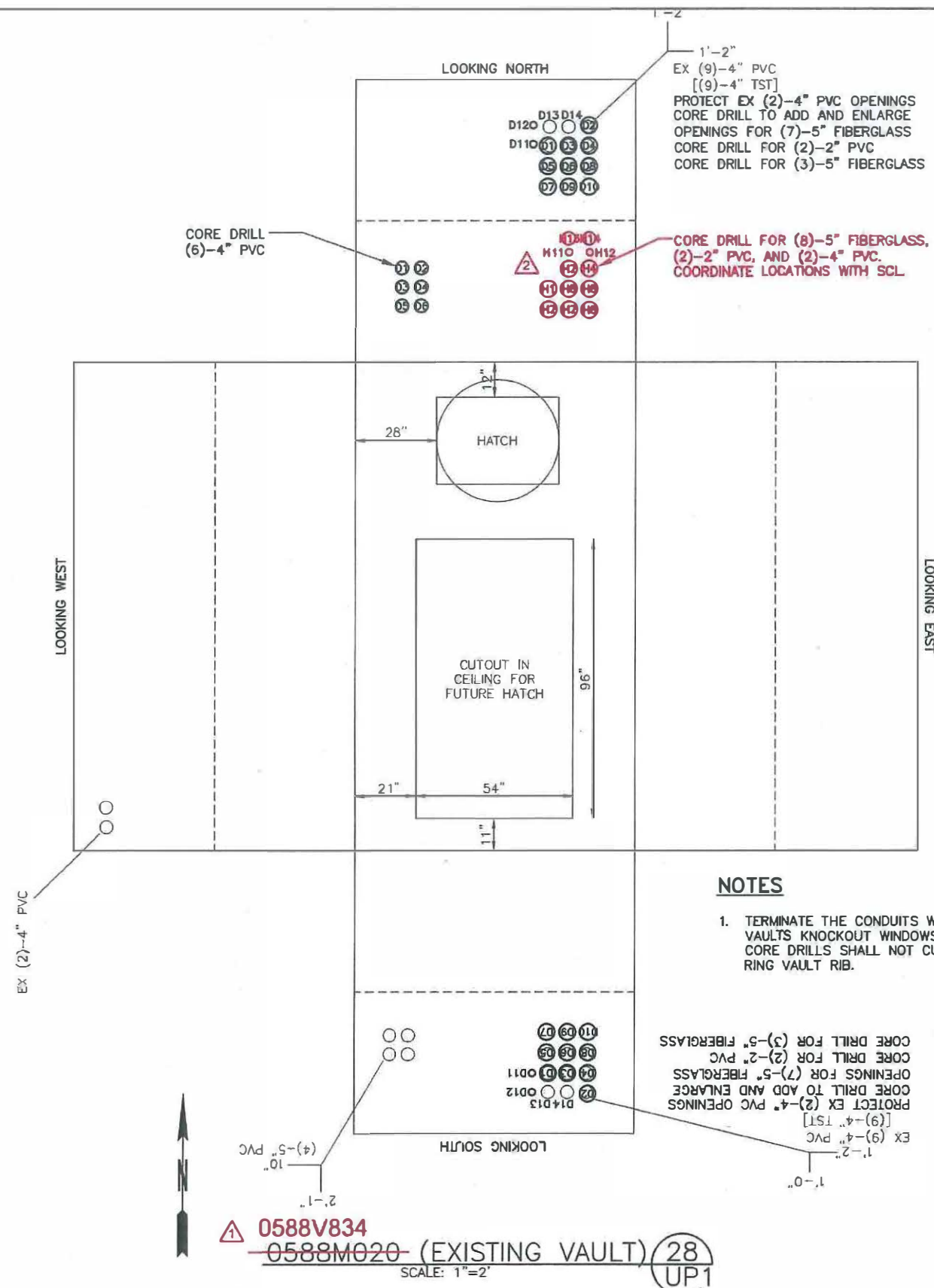
SHEET 22 OF 23
CHANGE ORDER NO. 125
CONTRACT 8549

PRIOR TO M-1 VAULT INSTALLATION, CONTRACTOR SHALL VERIFY LOCATION OF ED3 AND ED4/5 DUCT BANKS TO CONFIRM THE EN6 PROFILE, PER DRAWING UPR10A

NEW SHEET

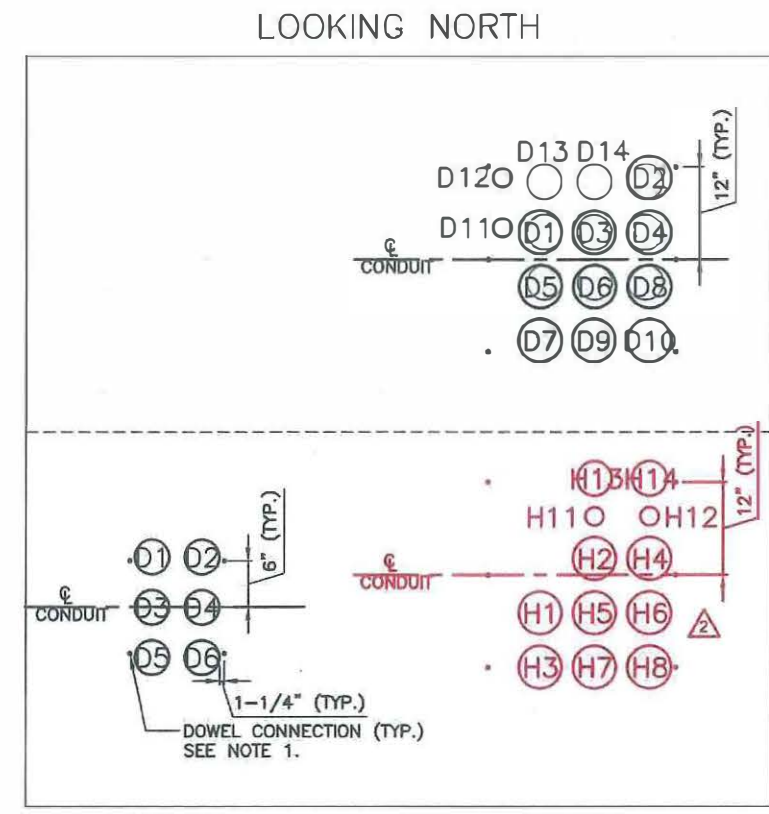
FILE NAME X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\003-MWNA-CPD2.dwg		REGION NO.	STATE	FED.AID PROJ.NO.				SR 99 ALASKAN WAY VIADUCT-REPLACEMENT NORTH ACCESS CONNECTION	PLAN REF. NO.
TIME 4:42am	DATE Dec-21-15	10	WASH						UPD198
PLOTTED BY K.BOSTON	DESIGNED BY C.PARK	JOB NUMBER 13A003	CONTRACT NO.	LOCATION NO. XL-3687				SHEET 249B OF 770 SHEETS	
ENTERED BY K.BOSTON	CHECKED BY S.BARTLETT	DATE 12/17/2015	BY CDP				POWER DETAILS		
PROJ. ENGR. S. BEADLE	REGIONAL ADM. T. TREPANIER	REVISION							

SHEET 23 OF 23
 CHANGE ORDER NO. 125
 CONTRACT 8549



NOTES

1. TERMINATE THE CONDUITS WITHIN THE VAULTS KNOCKOUT WINDOWS, IF POSSIBLE. CORE DRILLS SHALL NOT CUT INTO THE RING VAULT RIB.



NOTES

1. DOWEL NEW DUCT BANK INTO EXISTING VAULT WALL TO PROVIDE SHEAR CONNECTION. DOWEL #4x16 STEEL REBAR INTO THE VAULT WALL WITH EPOXY (4" MIN. EMBEDMENT). FOUR DOWELS ARE REQUIRED FOR SIX CONDUITS OR LESS IN A DUCT BANK. SIX DOWELS ARE REQUIRED FOR MORE THAN SIX CONDUITS IN A DUCT BANK.

DUCT BANK DOWEL DETAIL (28A) UPD28
 SCALE: 1"=1'

0588V834
~~0588M020~~ (EXISTING VAULT) (28) UP1
 SCALE: 1"=2'

FILE NAME X:\110000-110250\110159 (Alaskan Way Viaduct North Access)\CADD\Design\003-MWNA-CPD3.dwg		REGION NO. 10	STATE WASH	FED.AID PROJ.NO.		 1601 Fifth Avenue, Suite 1600 Seattle, Washington 98101-3665 (206) 622-5822 Fax (206) 622-8130		SR 99	ALASKAN WAY VIADUCT-REPLACEMENT NORTH ACCESS CONNECTION	PLAN REF. NO. UPD28
TIME 4:43am	DATE Dec-21-15	JOB NUMBER 13A003		LOCATION NO. XL-3687				SHEET 258 OF 770 SHEETS		POWER DETAILS
PLOTTED BY J.LINEHAN	DESIGNED BY C.PARK	ENTERED BY J.LINEHAN	CHECKED BY S.BARTLETT	PROJ. ENGR. S. BEADLE	REGIONAL ADM. T. TREPANIER	REVISION	DATE	BY	CO-125: NEW VAULT M-1 RFI-46	