



July 13, 2016

TO:

Marco Foster,

MS-47354

THRU:

T. Madden / K. Klingman,

NB82-230

FROM:

P. Fuller

NB82-66

SUBJECT:

Contract 8549

AWV-Replacement NA Connection F.A. Project No: STPF-0099(122)

CHANGE ORDER #169 King County Ductbank

Attached for your review and further processing is HQ executed change order No. "CO169 King County Ductbank". This change order has been processed in accordance with the attached change order checklist.

Description of Change

This change order installs a new King County Metro (KCM) ductbank along Harrison St. between 6th Ave. and Taylor Ave. This work is a King County Metro ductbank relocation.

Development of the Change

On 5/29/2016 via RFI#349, the Contractor informed our office there was a conflict with the new pavement roadway section and an existing KCM power duct bank vault located at approximately H line Station 95+20. The Contractor also noticed that the cover between the bottom of new PCCP and top of existing ducts gets reduced down to a little over 1ft at the vault. KCM discussed various alternatives, leaving the ductbank in place and adjusting the road superelevation to gain clearance, reducing the roadway x-section to gain more clearance, and reinforcing the roadway cross section with steel plates. After much discussion about how to solve this issue, KCM's preferred option was to construct a parallel ductbank that meets current standards for cover and duct capacity. This option is a betterment compared to the existing ductbank.

We directed our Contractor to perform the scoping and design of this ductbank in November 2015.

SDOT (Seattle Department of Transportation) will address payment to WSDOT. SDOT will fund the cost of this duct bank relocation and then they will pursue reimbursement

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directly from King County Metro. Amendment 2 for Task Order WSDOT-SDOT-AH was approved and signed on June 28, 2016 (Attachment E).

Schedule Analysis

The Contractor claimed this added work would require an additional 54 working days. The work to construct the ductbank is on the critical path and it is all 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).

<u>Approvals</u>

- PE Approval Patrick Fuller gave approval on 6/29/2016 (Attachment B).
- Region Approval Dave Sowers gave approval on 6/28/2016 (Attachment B).
- HQ Approval Craig McDaniel gave approval on 6/29/2016 (*Attachment B*).
- FHWA Approval Anthony Sarhan gave approval on 6/29/2016 (Attachment B).
- City Funding Approval Jonathan Layzer approval on 6/28/2016 (Attachment B).
- Program Management Mario Mathisen gave approval on 7/06/2016 (Attachment B).

Entitlement & Price

The Contractor is entitled to additional compensation for added work to the Contract. This change results in a significant amount of added work to the Contract. The total amount of this change order is \$1,359,776.70 which includes a lump sum of \$1,221,941.00 and contract unit items making up the difference. The work also includes added bid item work to restore existing pavement.

We performed an independent estimate of \$1,336,478.37 and all parties WSDOT, SDOT and King County agreed to the scope and cost of the added work including the overhead costs for the added 54 working days. (See Estimate – Attachment C).

Contract Time

This change order adds 54 working days. 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 File: C8549 3(169)

DATE: 06/29/16 Page 1 of iD

CONTRACT NO:

008549

FEDERAL AID NO: STPF-0099 (122)

CONTRACT TITLE:

SR 99, ALASKAN WAY VIADUCT - REPLACEMENT NORTH ACC

CHANGE ORDER NO: 169 KING COUNTY DUCTBANK

PRIME CONTRACTOR:

GUY F. ATKINSON CONSTRUCTION, LLC.

707 SOUTH GRADY WAY STE 500

ORIGINAL

RENTON

98057-3224

(X) Ordered by Engineer under the terms of Section 1-04.4 of the () Change proposed by Contractor	Standard Specifications	
ENDORSED BY:	SURETY CONSENT:	
Bl Dy vice President		
CONTRACTOR	ATTORNEY IN FACT	
7/5/16		
DATE	DATE	
ESTIMATED NET CHANGE THIS ORDER: 1,35	nb 8/5/2010	
() APPROVAL RECOMMENDED () EXECUTED PROJECT ENGINEER	STATE CONSTRUCTION ENGINEER	
7/14/16 DATE	DATE 25th 2016	
() EXECUTED	OTHER APPROVAL WHEN REQUIRED	
REGIONAL ADMIN:	Authorian landous state	

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CONTRACT NO: 008549

CHANGE ORDER NO: 169

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 installs a new King County Metro ductbank as shown on the plans.

This change order adds the following plan sheets: C2.1-C2.6.

MATERIALS

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

MEASUREMENT

Measurement of the new lump sum item, "CO169 King County Ductbank", 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, "CO169 King County Ductbank" in the amount of \$1,221,941.00. This amount shall be full payment for all labor, equipment and materials to install the King County Metro ductbank and overhead costs associated with added days to complete the work described above per Section 1-09.1 of the Standard Specifications.

This change order shall include the following Contract Item increases:

Contract Item 16, "Removing Cement Conc. Pavement" by 317 SY, for a total of \$7,291.00.

Contract Item 25, "Handling, Hauling and Disposing Dangerous Waste" adding by EST., for a total of \$10,000.00.

Contract Item 27, "Roadway Excavation Incl. Haul" by 40 CY, for a total of \$760.00.

Contract Item 31, "Disposing of Contaminated Material" by 837 TON, for a total of \$40,259.70.

Contract Item 139, "Crushed Surfacing Base Course" by 75 TON, for a total of \$1,800.00.

Contract Item 142, "C.O.S. Conc. Pavement" by 110 CY, for a total of \$27,830.00.

Contract Item 146, "Epoxy Coated Dowel Bar" by 220 EACH, for a total of

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\$2,200.00.

Contract Item 147, "C.O.S. Tie Bar with Drill Hole" by 75 EACH, for a total of \$1,125.00.

Contract Item 161, "Street Cleaning" by 100 HR, for a total of \$11,500.00.

Contract Item 163, "Erosion/Water Pollution Control" by EST, for a total of \$10,000.00.

Contract Item 216, "C.O.S. Cement Conc. Curb" by 30 LF, for a total of \$870.00.

Contract Item 281, "Flaggers and Spotters" by 320 HR, for a total of \$13,280.00.

Contract Item 282, "Other Traffic Control Labor" by 20 HR, for a total of \$920.00.

Contract Item 329, "Force Account Potholing Utilities" by EST, for a total of \$10,000.00.

This change order totals \$1,359,776.70.

CONTRACT TIME

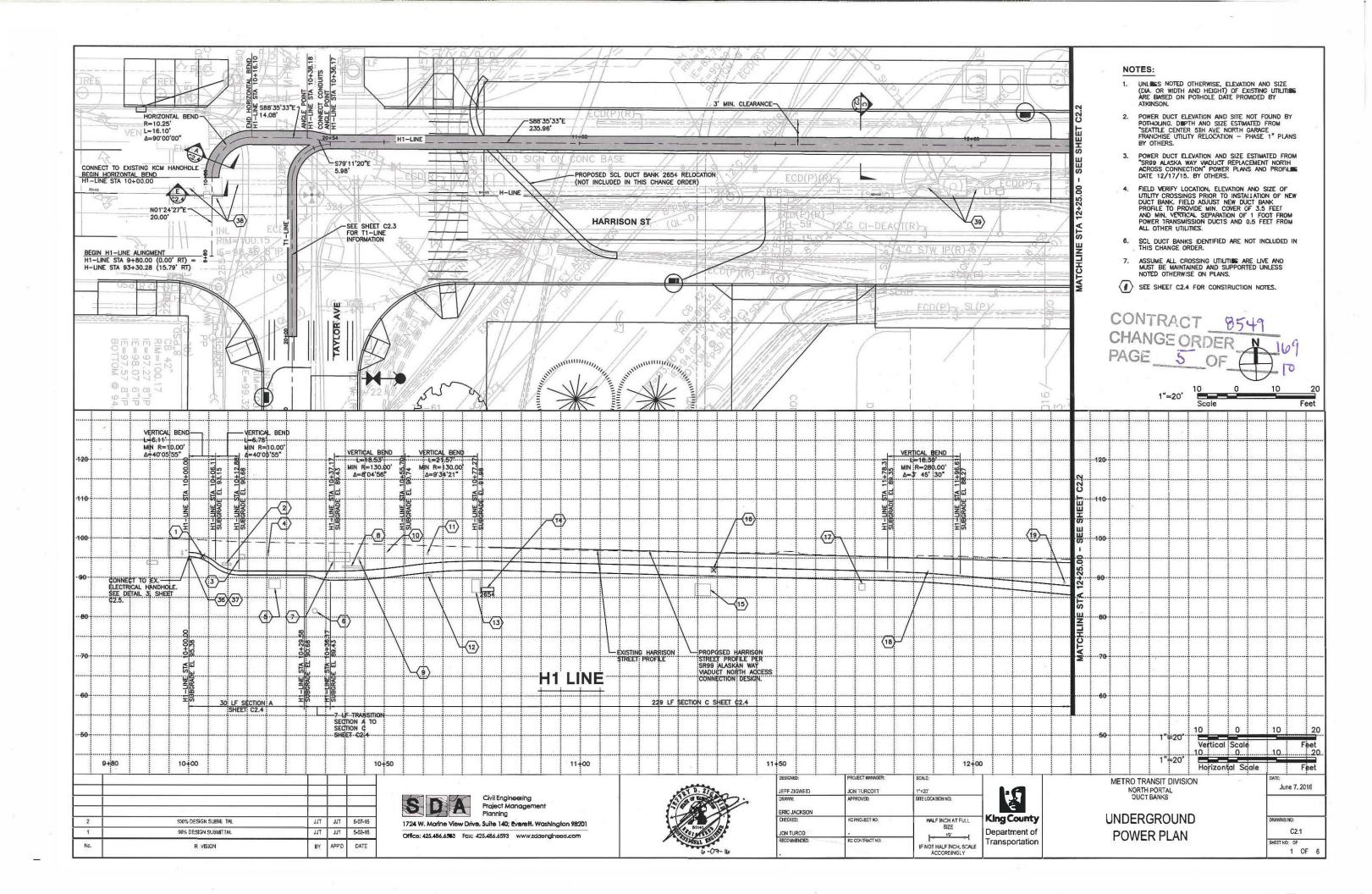
This change order adds 54 working days to this Contract. No changes to contract interim milestones are made as a result of this change order.

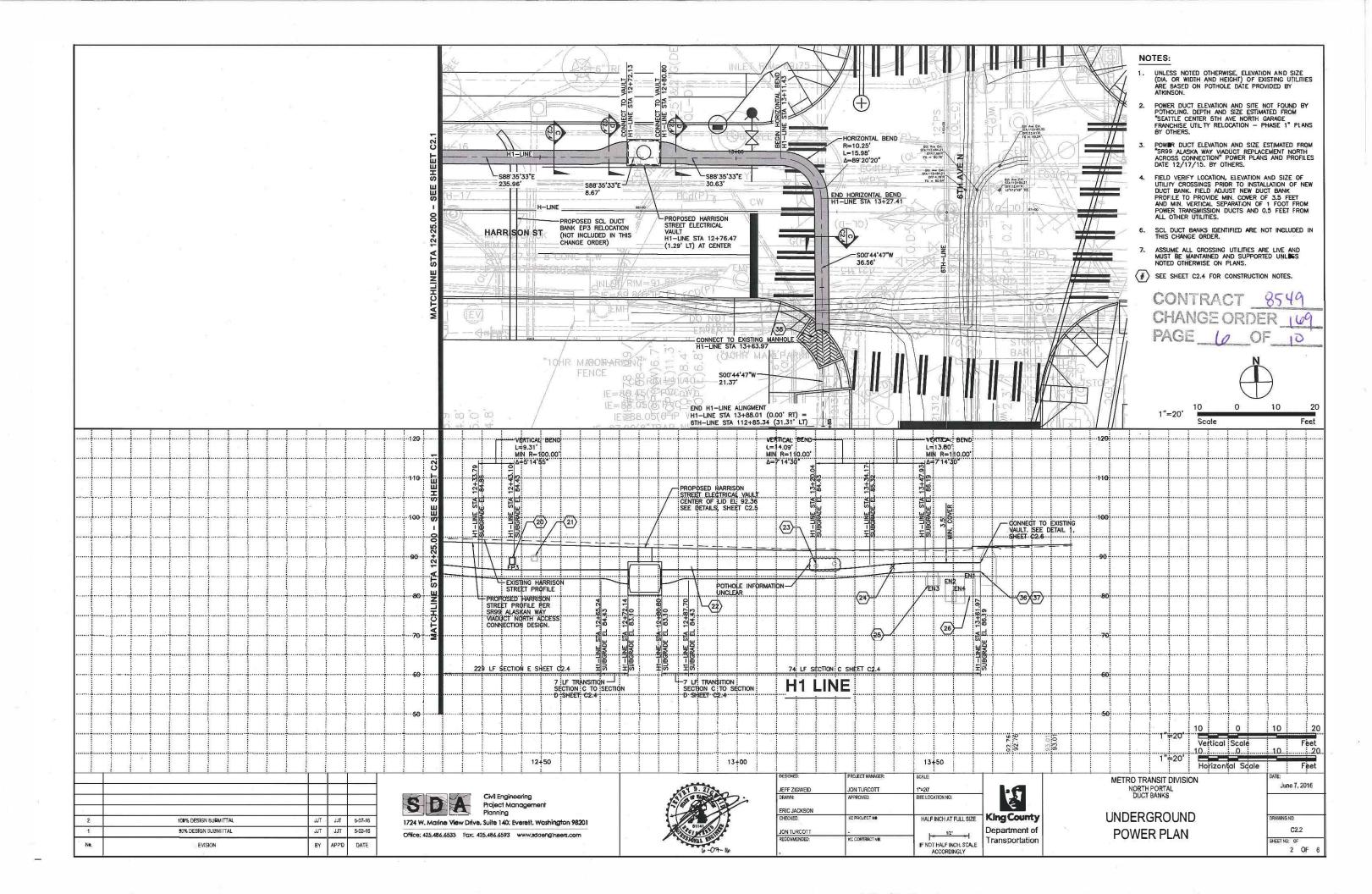
DATE: 06/29/16 Page 4 of 10

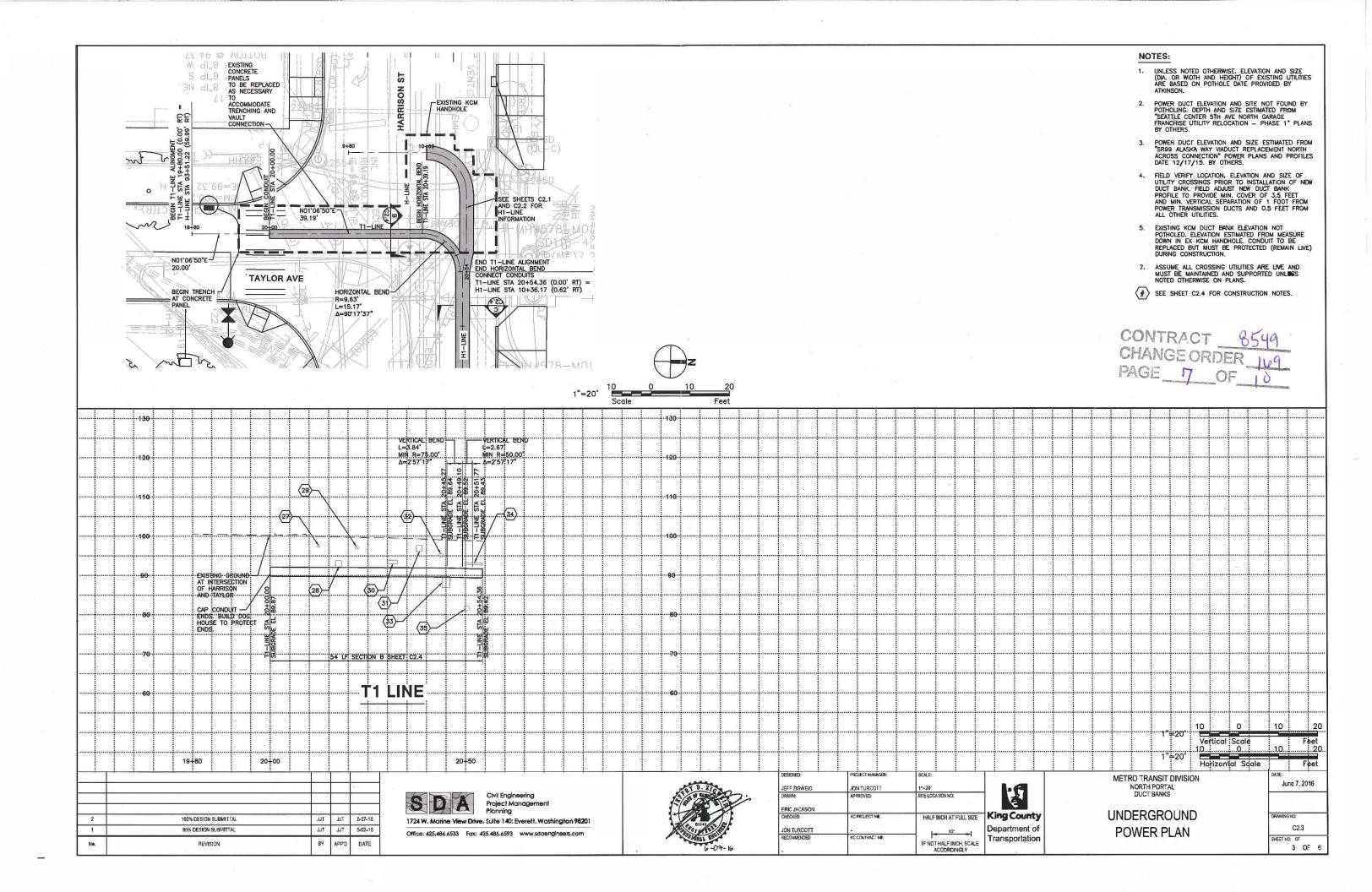
CONTRACT NO: 008549			CHANGE ORDER NO: 169				
ITEM NO	GROUP NO	STD	ITEM DESCRIPTION	UNIT MEASURE	UNIT PRICE	EST QTY CHANGE	EST AMT CHANGE
0016	12 pt	0090	REMOVING CEMENT CONC. PAVEMENT	S.Y.	23.00	317.00	7,291.00
0025	1 7k		HANDLING, HAULING AND DISPOSING DANGEROUS	EST.	35,000.00	0.00	10,000.00
0027	7x	0310	ROADWAY EXCAVATION INCL. HAUL	С.У.	19.00	40.00	760.00
0031	7x		DISPOSING OF CONTAMINATED MATERIAL	TON	48.10	837.00	40,259.70
0139	7xt	5100	CRUSHED SURFACING BASE COURSE	TON	24.00	75.00	1,800.00
0142	ZK		C.O.S. CONC. PAVEMENT	C.Y.	253.00	110.00	27,830.00
0146	ZK		EPOXY COATED DOWEL BAR	EACH	10.00	220.00	2,200.00
0147	71 9		C.O.S. TIE BAR WITH DRILL HOLE	EACH	15.00	75.00	1,125.00
0161	7 y :	6470	STREET CLEANING	HOUR	115.00	100.00	11,500.00
0163	7x	6490	EROSION/WATER POLLUTION CONTROL	EST.	1,757,000.00	0.00	10,000.00
0216	7JR		C.O.S. CEMENT CONC. CURB	L.F.	29.00	30.00	870.00
0281	zχ	6980	FLAGGERS AND SPOTTERS	HOUR	41.50	320.00	13,280.00
0282	7.K	6992	OTHER TRAFFIC CONTROL LABOR	HOUR	46.00	20.00	920.00
0329	2×	7715	FORCE ACCOUNT POTHOLING UTILITIES	EST.	256,652.89	0.00	10,000.00
1182	12K		CO169 KING COUNTY DUCTBANK	L.S.	0.00	0.00	1,221,941.00

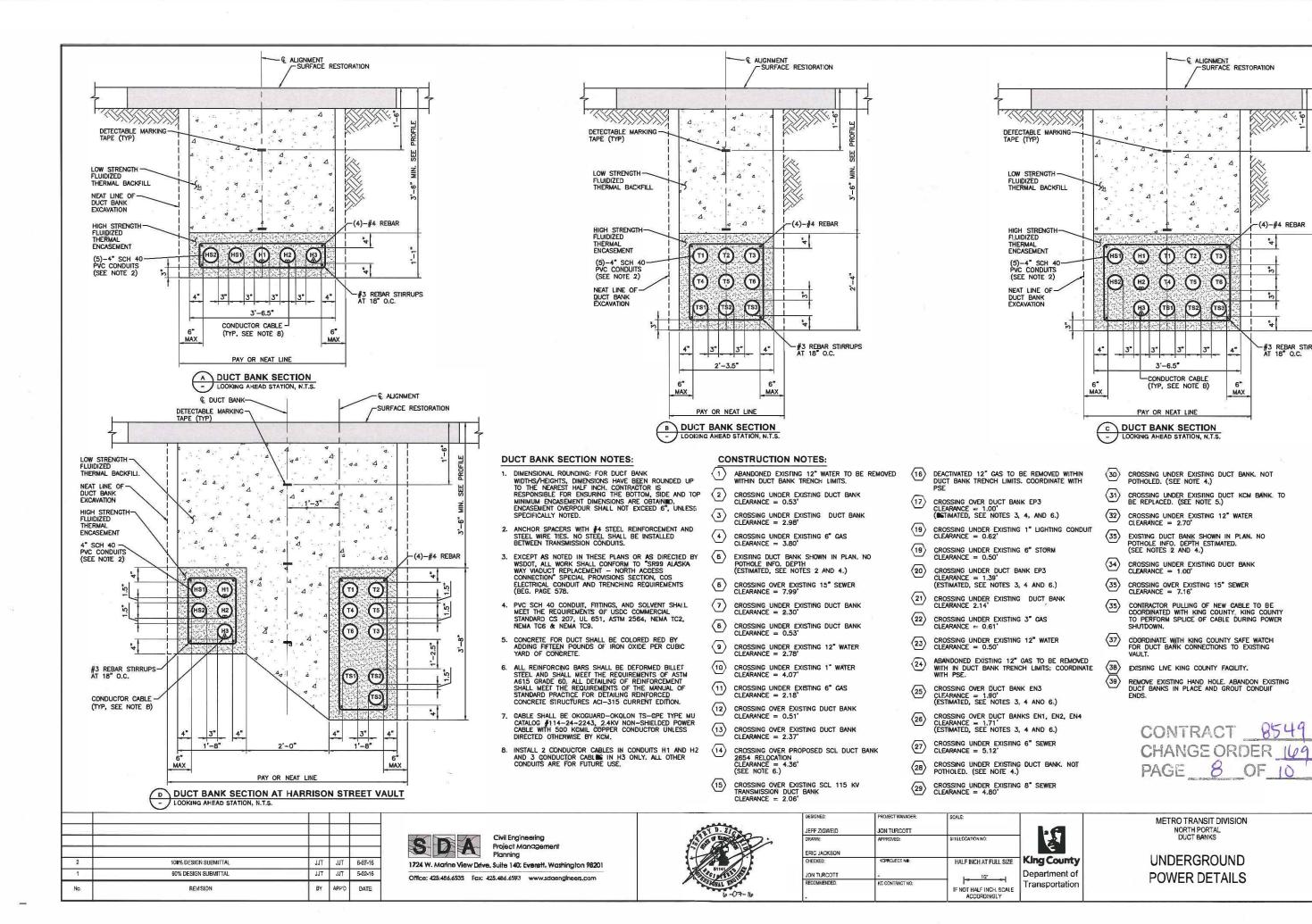
1,359,776.70

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-(4)-#4 REBAR

-#3 REBAR STIRRUPS AT 18" O.C.

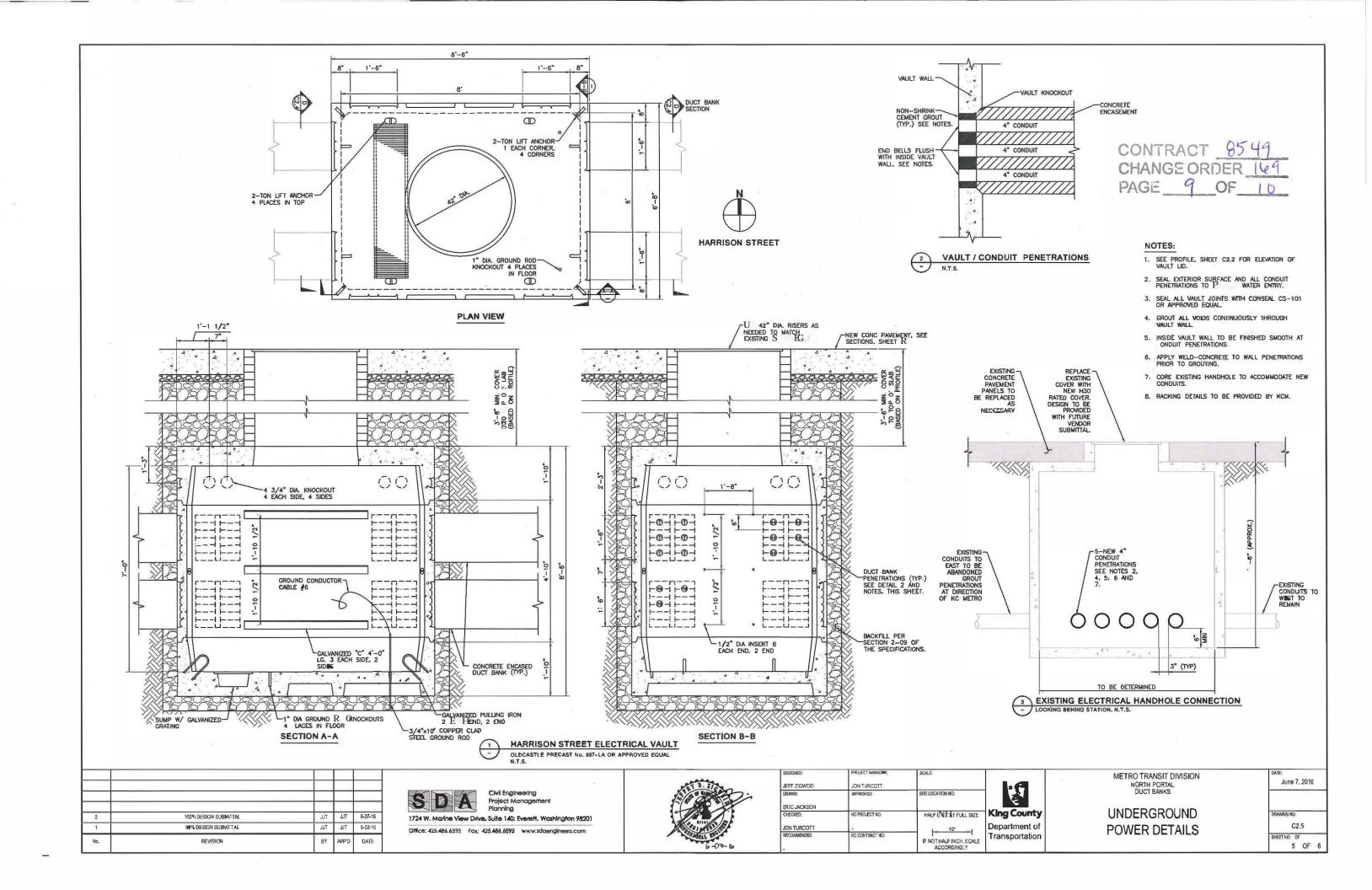
June 7, 2016

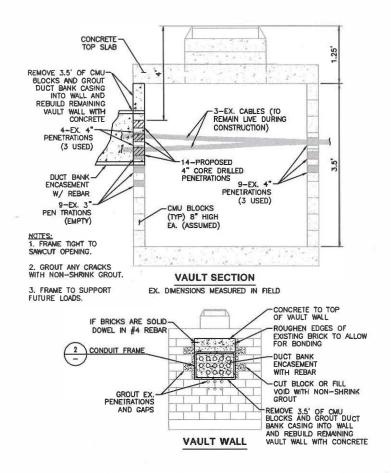
C2 4

4 OF

WING NO:

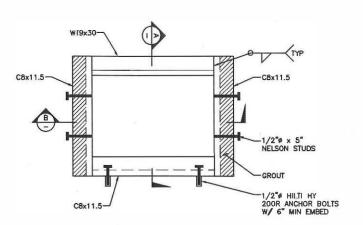
MAX





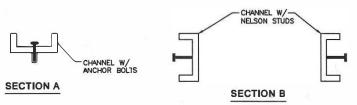
EXISTING ELECTRICAL VAULT CONNECTION

N.T.S.



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CONDUIT FRAME

N.T.S.

2	100% DESIGN SUBMITTAL	JUT	TLL	6-07 16
1	90% DESIGN SUBMITTAL	JJT	JJT	5-02-16
No.	REVISION	BY	APP'D	DATE



Civil Engineering Project Management 1724 W. Marine View Drive, Sulte 140; Everett, Washington 98201

Office: 425.486.6533 Fax: 425.486.6593 www.sdaengineers.com



DESIGNED:	PROJECT MANAGER:	SCALE:	
JEFF ZIGWEID	JON TURCOTT	1*=20'	be
DRAWN:	APPROVED:	SITE LOCATION NO:	
ERIC JACKSON			
CHECKED:	KC PROJECT NO:	HALF NCH AT FUIJ. SIZE	King County
JON TURCOTT		1/2'	Department of
RECOMMENDED	KC CONTRACT NO:	IF NOT HALF INCH, SCALE ACCORDINGLY	Transportation

METRO TRANSIT DIVISION

UNDERGROUND POWER PLAN

WING NO:
C2.6

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June 7, 2016