Lowell Creek Flood Diversion
Appendix E: Cost Engineering
Seward, Alaska

April 2021

US Army Corps
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Alaska District

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Appendix E: Cost Engineering

Integrated Feasibility Report and Environmental Assessment

Lowell Creek Flood Diversion

Seward, Alaska

Prepared By:

U.S. Army Corps of Engineers

Alaska District

April 2021

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1.0 APPENDIX PURPOSE

This Appendix is the cost estimate basis for the proposed modifications to the Lowell Creek Flood Diversion project. It provides the cost assumptions for materials, labor, equipment, and markups utilized in the cost estimate.

2.0 PROJECT ALTERNATIVES AND MEASURES

The alternatives below with Structural measures and Nonstructural measures were evaluated for this report. Below is the summary of the alternatives and its measures:

I. Alternative #1: No Action

II. Alternative #2: Improve Existing Flood Diversion System
   a. Nonstructural 3: Tree removal
   b. Structural 26: Improve Low Flow Diversion System
   c. Nonstructural 1: Implement Early Warning System and Evacuation Plan
   d. Structural 18: Protect Tunnel Inlet from Landslide Blockage
   e. Structural 14: 10-ft: 150-ft Extend Tunnel Outlet into Resurrection Bay
   f. Structural 3: Refurbish Existing Tunnel

III. Alternative #3A: Enlarge Existing Flood Diversion System, 18-ft Tunnel
   a. Nonstructural 3: Tree removal
   b. Structural 26: Improve Low Flow Diversion System
   c. Nonstructural 1: Implement Early Warning System and Evacuation Plan
   d. Structural 18: Protect Tunnel Inlet from Landslide Blockage
   e. Structural 14: 18-ft: 150-ft Extend Tunnel Outlet into Resurrection Bay
   f. Structural 4: Enlarge Existing Tunnel to 18 ft

IV. Alternative #3B: Enlarge Existing Flood Diversion System, 24-ft Tunnel
   a. Nonstructural 3: Tree removal
   b. Structural 26: Improve Low Flow Diversion System
   c. Nonstructural 1: Implement Early Warning System and Evacuation Plan
   d. Structural 18: Protect Tunnel Inlet from Landslide Blockage
   e. Structural 14: 18-ft: 150-ft Extend Tunnel Outlet into Resurrection Bay
   f. Structural 4: Enlarge Existing Tunnel to 24 ft

V. Alternative #4A: Construct New Flood Diversion System, 18-ft Tunnel
   a. Nonstructural 3: Tree removal
   b. Structural 1 & Structural 8: Construct Additional 18-ft Tunnel and Diversion Dam
   c. Nonstructural 1: Implement Early Warning System and Evacuation Plan

d. Structural 18: Protect Tunnel Inlet from Landslide Blockage
e. Structural 14: 18-ft: 150-ft Extend Tunnel Outlet into Resurrection Bay
f. Structural 3: Refurbish Existing Tunnel

VI. Alternative #4B: Construct New Flood Diversion System, 24-ft Tunnel
   a. Nonstructural 3: Tree removal
   b. Structural 1 & Structural 8: Construct Additional 24-ft Tunnel and Diversion Dam
   c. Nonstructural 1: Implement Early Warning System and Evacuation Plan
   d. Structural 18: Protect Tunnel Inlet from Landslide Blockage
   e. Structural 14: 24-ft: 150-ft Extend Tunnel Outlet into Resurrection Bay
   f. Structural 3: Refurbish Existing Tunnel

VII. Alternative #6A: Floodway Through Town
   a. Demolition
   b. Construct Dike
   c. Construct 2-lane highway viaduct to reconnect separated portion of Seward to Alaska Highway System
   d. Assessed Value - Fair Market Value

VIII. Alternative #6B: Relocation of All Lowell Canyon Structures
   a. Demo and Construct New Hospital
   b. Demo and Construct New Apartment
   c. Demo and Construct 17 New Houses
   d. Land acquisition to relocate Seward area just north of the Safeway

IX. Alternative #6C: Floodplain Relocation
   a. Demo and Construct New Apartment
   b. Demo and Construct 17 New Houses
   c. Land acquisition to relocate Seward area just north of the Safeway

X. Alternative #6D: Relocation of Residential Structures in Lowell Canyon
   a. Demo and Construct 17 New Houses
   b. Land acquisition to relocate Seward area just north of the Safeway

Please see Appendix C: Hydraulic and Structural Design for the detailed scope of work.

3.0 ALTERNATIVES COST SUMMARY

The summary of alternative costs is shown in Table 1. The estimated contract cost does not include escalation to the mid-point of construction.

Table 1. Alternative Costs.

Alternative	Estimated Contract Cost	Contingency	Total Costs
1	$ -	$ -	$ -
2	$42,157,265	$10,903,956	$53,061,221
3A	$121,646,936	$35,635,879	$157,282,815
3B	$241,807,536	$73,038,490	$314,846,026
4A	$92,784,771	$30,143,392	$122,928,162
4B	$130,027,204	$42,579,479	$172,606,683
6A	$245,803,016	$122,901,508	$368,704,524
6B	$76,473,639	$38,236,820	$114,710,459
6C	$36,308,039	$18,154,019	$54,462,058
6D	$29,198,232	$14,599,116	$43,797,348

4.0 QUANTITIES

Assumptions and concept quantities for each of the structural measures and nonstructural measures were provided from CEPOA-EC-G-HH Structural Designer. Please see Appendix C: Hydraulic and Structural Design for the detailed concept quantities.

5.0 ESTIMATE SOFTWARE AND DATA SOURCES

The construction cost estimate was developed using the following software, labor library, and equipment library:

- MCACES 2nd Generation (MII) version 4.4
- 2018 Davis Bacon Wage Rates (South of 63rd)
- 2016 Engineer Pamphlet 1110-1-8, Equipment Region 9
- 2016 MII English Cost Book

6.0 PROJECT MARKUPS

- Prime Markups
  - Home Office Overhead (HOOH) (Running %) =6%
  - Profit (Profit Weighted Guidelines) =8%
  - Bond (Running %) =1%
- Contingency – Varies from 28% to 33% for each alternative based on the Abbreviated Risk Analysis (ARA) (included in Section 9)
- Pre-Construction Engineering and Design (PED) – Assume 15% of the total construction costs

7.0 ESTIMATE ASSUMPTIONS

The following bullets summarizes assumptions used in the development of the estimates.

- Work schedule: 6/12
- Class 4 cost estimate per ARA, ASTM E2516-11 Standard Cost Estimate Classification System, and Engineering Regulation 1110-2-1302 Civil Works Cost Engineering
- 2016 to 2019 cost book material price escalation = 6% running
- 2016 to 2019 equipment library escalation = 6% running
- 2018 to 2019 labor library escalation = 2% running
- Structural 14 - Extend Tunnel Outlet into Resurrection Bay – Precast concrete flume fabricates and delivers to Seward from Tacoma, Washington. Steel piles are available in Alaska.
- Structural 18 Protect Tunnel Inlet from Landslide Blockage – Steel girders fabricate and deliver to Seward from Anchorage, AK
- Concrete and rebar for all structural measures are from Soldotna deliver to Seward
- Mob/demob costs are included under Prime Division 01 General Requirements or as a percent allowance in the prime contractor markups for Field Office Overhead
- Assume reduction labor productivity to 50% for measure Structural 14 – 10 ft/18 ft/24 ft: 150 ft Extend Tunnel Outlet into Resurrection Bay and 20% to measure Structural 4 Enlarge Existing Tunnel, from 10 ft to 18 ft or 10 ft to 24 ft due to:
    - The tunnel construction would be constrained to a short season when water could be successfully diverted from the tunnel
    - Winter and spring months requiring the contractor to maintain a winter site
    - At the end of each construction season, the contractor would need to protect the portion of the work that had been completed from damage while the tunnel diverts summer flows
    - Summer flows may cause damage to the work between construction seasons necessitating repairs

8.0 RECOMMENDED PLAN COST ESTIMATE

This section documents the development of recommended plan cost estimate, which was completed using MCACES and included a Cost and Schedule Risk Analysis (CSRA) for contingency development. Alternative 4A from the final array of alternatives was selected as the recommended plan. Below are the measures in Alternative 4A:

- S8 - Construct New Diversion Dam, 30 ft Height
- S1 - Construct New 18 ft Diameter Tunnel
- NS3 – Remove Trees
- S3 – Refurbish Existing Tunnel
- S18 – Protect Tunnel Inlet from Landslide Blockage
- S14 – 18 ft: 150 ft Extend Tunnel Outlet into Resurrection Bay

8.1 Basis of Estimate

Documents Referenced for Scope of Work: Alternatives Sketches, Quantities from Designers from H & H Section, and the Lowell Creek Flood Diversion Feasibility Study. A quantity summary by measures is presented in Attachment 2. Project conditions and construction costing were based upon the alternatives presented. Lands and Damages costs were provided by the Real Estate Branch of The Corps' Alaska District (POA). The PED and supervision inspection and overhead (SIOH) were provided by the project management/plan formulation.

8.2 Acquisition Plan

The cost estimate assumes one contract being awarded for the total project construction. It is assumed that the bidding process would be unrestricted. All Prime and Sub-Contractors markups have been adjusted accordingly in the cost estimate. The cost estimate assumes that the Prime Contractor is a general civil/earthwork would sub majority of the work to the sub-contractors (concrete/asphalt/tunneling/drilled piers).

8.3 Project Schedule

It is estimated that overall construction duration from Notice to Proceed (NTP) to project completion is approximately 48 months based on the project measures developed in the MII cost estimate. The Cost and Schedule Risk Analysis (CSRA) indicated that this project could quite possibly extend to 70 months to complete.

8.4 Construction Sequencing & Methodology

Construction Season 1 (May 2026 – October 2026, Winter Shutdown (November 2026 - April 2027):

- Mobilization
- Construct the following Measures:
  - NS3 – Remove Trees
    Selectively removing trees with a single trunk diameter at breast height that was 48 inches or larger and cut the trees into 4–8 ft sections.
  - S1 – Construct New 18 ft Diameter Tunnel
    Rock Excavation - It is assumed that tunnel construction will be by drill and blast methods.
  - Start Constructing – S14 – 18 ft: 150 ft Extend Tunnel Outlet into

Resurrection Bay Outfall construction will be similar to simple-span, pre-cast concrete bridge construction with land-based equipment being necessary to complete the structure. Multiple cranes may be necessary to lift the heavy flume elements into place.

- Demobilization

Construction Season 2 (May 2027 – October 2027), Winter Shutdown (November 2028-April 2029):

- Mobilization
- Construct the following Measure:
  - Finish Constructing - S14 – 18': 150' Extend Tunnel Outlet into Resurrection Bay Outfall construction will be similar to simple-span, pre-cast concrete bridge construction with land-based equipment being necessary to complete the structure. Multiple cranes may be necessary to lift the heavy flume elements into place.
  - S1 - Construct New 18' Diameter Tunnel
    Construct stabilizing shotcrete liner will be installed prior to forming and placing the concrete liner. Contact grouting will be accomplished after the concrete liner is placed to ensure full contact at the tunnel crown.
  - S8- Construct New Diversion Dam, 30 ft Height
    It is assumed that the diversion dam will be constructed of roller-compacted concrete. The intake transition will require formed and carefully controlled concrete screeding and finishing. The diversion dam will include two 6-foot steel pipe conduits placed within the roller compacted concrete embankment of the dam. The conduits will be located near the north bank of Lowell Creek at the upstream end of the diversion dam and pass under the dam approximately 5 to 10 ft below the existing floor of the canyon. The conduits will be closed with steel cover plates on flanged ends. Streambed material will be used to bury the conduits once placed and sealed, and these conduits will remain buried for normal operations of the project.

    During construction or maintenance activities, water from Lowell Creek will be diverted through these conduits by excavating an upstream sump and siphoning water through these conduits using HDPE pipes which will be installed and removed as a part of construction or maintenance activities. Water passing through these conduits will discharge to the existing 10-ft tunnel.

- Demobilization

Construction Season 3 (May 2029 – October 2029)

- Mobilization
- Construct the following Measures:

  - S3 – Refurbish Existing Tunnel
    Assumed demolition of the existing concrete liner and finishing the entire invert and damage to the walls and crown with 10,000 psi silica fume concrete.
  - S18 – Protect Tunnel Inlet from Landslide Blockage
    The tunnel inlet portal canopy is designed and construct as a steel-frame structure with concrete footings tied into bedrock and a combination of site-cast and precast concrete decking.
- Demobilization – Complete Project

8.5 Equipment/Labor Availability and Distance Traveled

The baseline estimate assumes all equipment and labor are available from Alaska, except for tunneling and constructing the drilled piers. Equipment and Labor for Tunneling and Drilled piers are assumed to be from the Lower 48.

8.6 Effective Dates for Labor, Material, and Equipment Pricing

The labor, equipment, and material pricing were developed using the MCACES 2016 English Unit Cost Library, 2021 Alaska Labor Library, and the 2018 Equipment Library (Region IV) for the base cost estimates. Below is escalation to the labor, material, and equipment library:

I. 2016 to 2021 labor library escalation = 10% (running %)

II. 2018 to 2021 equipment library escalation = 4% (running %)

8.7 Disposal Areas and Materials

The baseline estimate assumes:

I. All excavated materials are assumed to be disposal off project site. The estimate assumes a 8 miles round trip for disposal.

II. Precast concrete flume for measure S14 are fabricates and deliver to Seward, AK from Tacoma, Washington.

III. Portland Cement Concrete materials are available and deliver from Seward, AK.

IV. Other construction materials are available and deliver from Anchorage, AK to Seward, AK.

8.8 Project Markups/MCACES/TPCS

8.8.1 Prime Contractor's Markups

- JOOH (Calc.) = 17.35%
- HOOH (Running %) = 8%
- Profit (Profit Weighted Guidelines) = 9.46%
- Bond (Running %) = 2%

8.8.2 Escalation

Price levels have been escalated from effective price levels of the construction cost estimate for October 2021 to the mid-points of construction for the project. The appropriate escalation cost factors for each date and for each feature account have been calculated within the Total Project Cost Summary (TPCS).

8.8.3 Contingency

A Cost and Schedule Risk Analysis (CSRA) was completed in order to develop the contingency for the TSP MCACES cost estimate. The CSRA report, documenting the development of the risk-based contingency, is provided in Attachment 3.

8.8.4 Overtime

The estimate assumes 6-day work weeks, 12 hours per day.

8.8.5 MCACES

The construction cost estimate was developed using MCACES 2nd Generation (MII) estimating software in accordance with guidance contained in ER 1110-2-1302, Civil Works Cost Engineering. See Attachment 10 for the MII output report.

8.8.6 Total Project Cost Summary Sheet (TPCS)

The TPCS was prepared using the latest TPCS Excel spreadsheet provided by Walla Walla District. The TPCS incorporates the construction costs developed in MCACES, the project markups and functional costs referenced previously.

9.0 REFERENCES

ASTM Standard E2516-11, "Standard Classification for Cost Estimate Classification System," ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA.

U.S. Army Corps of Engineers (USACE).
2016. "Civil Works Cost Engineering," Engineer Regulation (ER) 1100-2-1302.

10.0 ATTACHMENTS

10.1 ATTACHMENT 1 – Alternatives ARA Results and MCACES Cost Reports

Abbreviated Risk Analysis

Project (less than $40M): **Lowell Creek** **Alternative: #2**

Project Development Stage/Alternative: **Feasibility (Recommended Plan)**

Risk Category: **Moderate Risk: Typical Project Construction Type** **Meeting Date: ---**

Total Estimated Construction Contract Cost = $ 34,324,430

	CWWBS	Feature of Work	Estimated Cost		% Contingency	$ Contingency	Total
	01 LANDS AND DAMAGES	Real Estate	$ -		0%	$ -	$ -
1	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	NS3 - Tree removal	$ 1,479,986		12%	$ 177,219	$ 1,657,205
2	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S26 - Improve Low Flow Diversion System	$ 10,171,513		16%	$ 1,614,464	$ 11,785,977
3	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	NS1 - Implement Early Warning System and Evacuation Plan	$ 30,328		29%	$ 8,858	$ 39,186
4	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S18 - Protect Tunnel Inlet from Landslide Blockage	$ 4,284,496		38%	$ 1,634,260	$ 5,918,756
5	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S14 - 10': 150' Extend Tunnel Outlet into Resurrection Bay	$ 8,959,846		38%	$ 3,389,788	$ 12,349,634
6	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S3 - Refurbish Existing Tunnel	$ 9,398,261		33%	$ 3,056,525	$ 12,454,786
7					0%	$ -	$ -
8					0%	$ -	$ -
9					0%	$ -	$ -
10					0%	$ -	$ -
11					0%	$ -	$ -
12	All Other		$ -	*0.0%*	0%	$ -	$ -
13	30 PLANNING, ENGINEERING, AND DESIGN	Planning, Engineering, & Design	$ 5,107,475		12%	$ 631,868	$ 5,739,343
14	31 CONSTRUCTION MANAGEMENT	Construction Management	$ 2,725,360		14%	$ 390,974	$ 3,116,334
XX	FIXED DOLLAR RISK ADD (EQUALLY DISPERSED TO ALL, MUST INCLUDE JUSTIFICATION SEE BELOW)					$ -	

Totals					
Real Estate	$ -	0%	$ -	$ -	
Total Construction Estimate	$ 34,324,430	29%	$ 9,881,113	$ 44,205,543	
Total Planning, Engineering & Design	$ 5,107,475	12%	$ 631,868	$ 5,739,343	
Total Construction Management	$ 2,725,360	14%	$ 390,974	$ 3,116,334	
Total Excluding Real Estate	**$ 42,157,265**	**26%**	**$ 10,903,956**	**$ 53,061,221**	
			Base	**50%**	**80%**
Confidence Level Range Estimate ($000's)			$42,157k	$48,699k	$53,061k

* 50% based on base is at 5% CL.

Fixed Dollar Risk Add: (Allows for additional risk to be added to the risk analsyis. Must include justification. Does not allocate to Real Estate.	

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**554,040**	**225,539**	**0**	**0**	**779,579**	**0**	**779,579**	**700,408**	**1,479,987**
Measure NS3. Remove Trees	**52.00**	**ACR**	**554,040**	**225,539**	**0**	**0**	**779,579**	**0**	**779,579**	**700,408**	**1,479,987**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**1,344,950**	**731,085**	**1,643,641**	**0**	**3,719,676**	**918,079**	**4,637,755**	**5,533,759**	**10,171,513**
Measure S26. Improve Low Flow Diversion System	**1.00**	**EA**	**1,344,950**	**731,085**	**1,643,641**	**0**	**3,719,676**	**918,079**	**4,637,755**	**5,533,759**	**10,171,513**
Concrete Sump	**2,916.00**	**SF**	**41,892**	**3,988**	**12,726**	**0**	**58,606**	**17,473**	**76,079**	**90,585**	**166,663**
(2) 48" Culvert	**900.00**	**LF**	**196,543**	**106,203**	**238,405**	**0**	**541,150**	**137,526**	**678,676**	**809,542**	**1,488,218**
(1) 72" Culvert	**4,200.00**	**LF**	**1,106,516**	**620,894**	**1,392,510**	**0**	**3,119,920**	**763,080**	**3,883,000**	**4,633,632**	**8,516,632**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**3,482**	**0**	**6,758**	**0**	**10,240**	**3,620**	**13,860**	**16,468**	**30,328**
Measure NS1. Implement Early Warning System and Evacuation Plan	**1.00**	**EA**	**3,482**	**0**	**6,758**	**0**	**10,240**	**3,620**	**13,860**	**16,468**	**30,328**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**264,059**	**44,286**	**529,129**	**0**	**837,474**	**286,519**	**1,123,992**	**3,160,504**	**4,284,497**
Measure S18. Protect Tunnel Inlet from Landslide Blockage	**1.00**	**EA**	**264,059**	**44,286**	**529,129**	**0**	**837,474**	**286,519**	**1,123,992**	**3,160,504**	**4,284,497**
Scaling Excavation	**1.00**	**EA**	**18,148**	**8,922**	**0**	**0**	**27,069**	**0**	**27,069**	**77,074**	**104,143**
Foundation Concrete	**1,280.00**	**SF**	**105,593**	**7,429**	**81,761**	**0**	**194,784**	**68,866**	**263,649**	**741,113**	**1,004,762**
Steel Girders	**94.30**	**TON**	**24,050**	**5,905**	**383,339**	**0**	**413,294**	**146,120**	**559,414**	**1,572,502**	**2,131,916**
Site Cast Roof Panels (fill irregular areas)	**64.00**	**CY**	**55,073**	**1,185**	**20,168**	**0**	**76,426**	**27,020**	**103,446**	**290,785**	**394,231**
Precast roof panels (prestressed for crack control)	**4,613.00**	**SF**	**61,195**	**20,845**	**43,861**	**0**	**125,901**	**44,512**	**170,414**	**479,030**	**649,444**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**1,249,293**	**332,720**	**418,642**	**0**	**2,000,655**	**707,157**	**2,707,812**	**6,252,034**	**8,959,846**
Measure S14 - 10': 150' Extend Tunnel Outlet into Resurrection Bay	**1.00**	**LS**	**1,249,293**	**332,720**	**418,642**	**0**	**2,000,655**	**707,157**	**2,707,812**	**6,252,034**	**8,959,846**
Drilled Piers - Rolled and Welded Pipe Can	**1.00**	**LS**	**400,882**	**106,761**	**191,813**	**0**	**699,456**	**247,293**	**946,749**	**2,185,931**	**3,132,679**
Concrete Pile Caps	**11.00**	**LS**	**115,192**	**2,475**	**41,133**	**0**	**158,800**	**56,144**	**214,944**	**496,280**	**711,224**
Cast-In_Place Flume Foundations	**1.00**	**EA**	**11,392**	**2,143**	**3,930**	**0**	**17,465**	**6,001**	**23,465**	**54,195**	**77,660**
Precast Concrete Flume Sections	**1.00**	**EA**	**721,828**	**221,341**	**181,765**	**0**	**1,124,934**	**397,720**	**1,522,654**	**3,515,628**	**5,038,283**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**544,334**	**61,155**	**427,311**	**0**	**1,032,800**	**365,147**	**1,397,947**	**6,026,307**	**7,424,254**
Measure S3: Refurbish Existing Tunnel	**1.00**	**EA**	**544,334**	**61,155**	**427,311**	**0**	**1,032,800**	**365,147**	**1,397,947**	**6,026,307**	**7,424,254**
Demolition of Existing 10,000 psi concrete	**450.00**	**CY**	**132,766**	**34,549**	**0**	**0**	**167,316**	**59,154**	**226,470**	**976,273**	**1,202,743**
Demolition of Existing 4,000 psi concrete	**1.00**	**EA**	**8,502**	**4,704**	**129**	**0**	**13,335**	**4,715**	**18,050**	**77,811**	**95,861**
Repair Invert with Armor and Concrete	**1.00**	**EA**	**359,591**	**15,484**	**406,981**	**0**	**782,056**	**276,496**	**1,058,552**	**4,563,237**	**5,621,789**
Wall and Crown Surface - Linear Repairs	**1.00**	**EA**	**2,812**	**161**	**188**	**0**	**3,161**	**1,118**	**4,279**	**18,447**	**22,726**
Wall and Crown Surface - Surface Repairs	**1.00**	**EA**	**15,230**	**5,413**	**159**	**0**	**20,802**	**7,354**	**28,156**	**121,376**	**149,532**
Contact Grout Crown	**1.00**	**EA**	**25,432**	**845**	**19,853**	**0**	**46,130**	**16,309**	**62,439**	**269,162**	**331,601**

Abbreviated Risk Analysis

Project (less than $40M): **Lowell Creek** — **Alternative: #3A**

Project Development Stage/Alternative: **Feasibility (Recommended Plan)**

Risk Category: **Moderate Risk: Typical Project Construction Type** — **Meeting Date: ---**

Total Estimated Construction Contract Cost = $ 99,044,892

	CWWBS	Feature of Work	Estimated Cost		% Contingency	$ Contingency	Total
	01 LANDS AND DAMAGES	Real Estate	$ -		0%	$ -	$ -
1	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	NS3 - Tree removal	$ 1,479,986		12%	$ 177,219	$ 1,657,205
2	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S26 - Improve Low Flow Diversion System	$ 10,171,513		16%	$ 1,614,464	$ 11,785,977
3	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	NS1 - Implement Early Warning System and Evacuation Plan	$ 30,328		29%	$ 8,858	$ 39,186
4	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S18 - Protect Tunnel Inlet from Landslide Blockage	$ 4,284,496		38%	$ 1,634,260	$ 5,918,756
5	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S14 - 18': 150' Extend Tunnel Outlet into Resurrection Bay	$ 10,512,214		38%	$ 3,977,097	$ 14,489,311
6	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S4 - Enlarge Existing Tunnel to 18'	$ 72,566,355		35%	$ 25,272,516	$ 97,838,871
7					0%	$ -	$ -
8					0%	$ -	$ -
9					0%	$ -	$ -
10					0%	$ -	$ -
11					0%	$ -	$ -
12	All Other		$ -	*0.0%*	0%	$ -	$ -
13	30 PLANNING, ENGINEERING, AND DESIGN	Planning, Engineering, & Design	$ 14,737,880		12%	$ 1,823,288	$ 16,561,168
14	31 CONSTRUCTION MANAGEMENT	Construction Management	$ 7,864,164		14%	$ 1,128,177	$ 8,992,341
XX	FIXED DOLLAR RISK ADD (EQUALLY DISPERSED TO ALL, MUST INCLUDE JUSTIFICATION SEE BELOW)					$ -	

Totals					
Real Estate	$ -	0%	$ -	$ -	
Total Construction Estimate	$ 99,044,892	33%	$ 32,684,414	$ 131,729,306	
Total Planning, Engineering & Design	$ 14,737,880	12%	$ 1,823,288	$ 16,561,168	
Total Construction Management	$ 7,864,164	14%	$ 1,128,177	$ 8,992,341	
Total Excluding Real Estate	**$ 121,646,936**	**29%**	**$ 35,635,879**	**$ 157,282,815**	
		Base	**50%**	**80%**	
Confidence Level Range Estimate ($000's)		$121,647k	$143,029k	$157,283k	

* 50% based on base is at 5% CL.

Fixed Dollar Risk Add: (Allows for additional risk to be added to the risk analsyis. Must include justification. Does not allocate to Real Estate.	

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**554,040**	**225,539**	**0**	**0**	**779,579**	**0**	**779,579**	**700,408**	**1,479,987**
Measure NS3. Remove Trees	**52.00**	**ACR**	**554,040**	**225,539**	**0**	**0**	**779,579**	**0**	**779,579**	**700,408**	**1,479,987**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**1,344,950**	**731,085**	**1,643,641**	**0**	**3,719,676**	**918,079**	**4,637,755**	**5,533,759**	**10,171,513**
Measure S26. Improve Low Flow Diversion System	**1.00**	**EA**	**1,344,950**	**731,085**	**1,643,641**	**0**	**3,719,676**	**918,079**	**4,637,755**	**5,533,759**	**10,171,513**
Concrete Sump	**2,916.00**	**SF**	**41,892**	**3,988**	**12,726**	**0**	**58,606**	**17,473**	**76,079**	**90,585**	**166,663**
(2) 48" Culvert	**900.00**	**LF**	**196,543**	**106,203**	**238,405**	**0**	**541,150**	**137,526**	**678,676**	**809,542**	**1,488,218**
(1) 72" Culvert	**4,200.00**	**LF**	**1,106,516**	**620,894**	**1,392,510**	**0**	**3,119,920**	**763,080**	**3,883,000**	**4,633,632**	**8,516,632**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**3,482**	**0**	**6,758**	**0**	**10,240**	**3,620**	**13,860**	**16,468**	**30,328**
Measure NS1. Implement Early Warning System and Evacuation Plan	**1.00**	**EA**	**3,482**	**0**	**6,758**	**0**	**10,240**	**3,620**	**13,860**	**16,468**	**30,328**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**264,059**	**44,286**	**529,129**	**0**	**837,474**	**286,519**	**1,123,992**	**3,160,504**	**4,284,497**
Measure S18. Protect Tunnel Inlet from Landslide Blockage	**1.00**	**EA**	**264,059**	**44,286**	**529,129**	**0**	**837,474**	**286,519**	**1,123,992**	**3,160,504**	**4,284,497**
Scaling Excavation	**1.00**	**EA**	**18,148**	**8,922**	**0**	**0**	**27,069**	**0**	**27,069**	**77,074**	**104,143**
Foundation Concrete	**1,280.00**	**SF**	**105,593**	**7,429**	**81,761**	**0**	**194,784**	**68,866**	**263,649**	**741,113**	**1,004,762**
Steel Girders	**94.30**	**TON**	**24,050**	**5,905**	**383,339**	**0**	**413,294**	**146,120**	**559,414**	**1,572,502**	**2,131,916**
Site Cast Roof Panels (fill irregular areas)	**64.00**	**CY**	**55,073**	**1,185**	**20,168**	**0**	**76,426**	**27,020**	**103,446**	**290,785**	**394,231**
Precast roof panels (prestressed for crack control)	**4,613.00**	**SF**	**61,195**	**20,845**	**43,861**	**0**	**125,901**	**44,512**	**170,414**	**479,030**	**649,444**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**1,909,221**	**424,819**	**645,478**	**0**	**2,979,519**	**1,052,437**	**4,031,956**	**6,480,259**	**10,512,214**
Measure S14 - 18': 150' Extend Tunnel Outlet into Resurrection Bay	**1.00**	**EA**	**1,909,221**	**424,819**	**645,478**	**0**	**2,979,519**	**1,052,437**	**4,031,956**	**6,480,259**	**10,512,214**
Drilled Piers - Rolled and Welded Pipe Can	**3.00**	**EA**	**483,019**	**125,443**	**255,028**	**0**	**863,490**	**305,287**	**1,168,777**	**1,878,467**	**3,047,243**
Concrete Pile Caps	**3.00**	**EA**	**80,427**	**4,250**	**36,244**	**0**	**120,921**	**42,752**	**163,673**	**263,057**	**426,730**
Cast-In_Place Flume Foundations	**1.00**	**EA**	**49,047**	**8,732**	**20,720**	**0**	**78,499**	**26,781**	**105,280**	**169,275**	**274,555**
Precast Concrete Flume Sections	**4.00**	**EA**	**1,296,729**	**286,394**	**333,487**	**0**	**1,916,609**	**677,617**	**2,594,226**	**4,169,460**	**6,763,686**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**30,206,229**	**7,857,572**	**5,082,525**	**0**	**43,146,325**	**13,661,637**	**56,807,962**	**15,758,393**	**72,566,355**
Measure S4 Enlarge Existing Tunnel, from 10' to 18'	**2,189.00**	**LF**	**30,206,229**	**7,857,572**	**5,082,525**	**0**	**43,146,325**	**13,661,637**	**56,807,962**	**15,758,393**	**72,566,355**
Remove existing 8" concrete lining	**77,928.40**	**SF**	**5,468,572**	**2,207,385**	**0**	**0**	**7,675,957**	**2,430,477**	**10,106,433**	**2,803,501**	**12,909,934**
Rock Excavation	**2,189.00**	**LF**	**4,554,873**	**1,770,231**	**14,168**	**0**	**6,339,273**	**2,007,236**	**8,346,509**	**2,315,302**	**10,661,810**
New 18' Tunnel	**2,189.00**	**LF**	**20,182,783**	**3,879,956**	**5,068,357**	**0**	**29,131,095**	**9,223,924**	**38,355,020**	**10,639,591**	**48,994,611**

Abbreviated Risk Analysis

Project (less than $40M): **Lowell Creek** **Alternative: #3B**

Project Development Stage/Alternative: **Feasibility (Recommended Plan)**

Risk Category: **Moderate Risk: Typical Project Construction Type** **Meeting Date: ---**

Total Estimated Construction Contract Cost = $ 196,879,609

	CWWBS	Feature of Work	Estimated Cost		% Contingency	$ Contingency	Total
	01 LANDS AND DAMAGES	Real Estate	$ -		0%	$ -	$ -
1	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	NS3 - Tree removal	$ 1,479,986		12%	$ 177,219	$ 1,657,205
2	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S26 - Improve Low Flow Diversion System	$ 10,171,513		16%	$ 1,614,464	$ 11,785,977
3	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	NS1 - Implement Early Warning System and Evacuation Plan	$ 30,328		29%	$ 8,858	$ 39,186
4	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S18 - Protect Tunnel Inlet from Landslide Blockage	$ 4,284,496		38%	$ 1,634,260	$ 5,918,756
5	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S14 - 24': 150' Extend Tunnel Outlet into Resurrection Bay	$ 24,301,073		38%	$ 9,193,850	$ 33,494,923
6	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S4 - Enlarge Existing Tunnel to 24'	$ 156,612,213		35%	$ 54,542,972	$ 211,155,185
7					0%	$ -	$ -
8					0%	$ -	$ -
9					0%	$ -	$ -
10					0%	$ -	$ -
11					0%	$ -	$ -
12	All Other		$ -	*0.0%*	0%	$ -	$ -
13	30 PLANNING, ENGINEERING, AND DESIGN	Planning, Engineering, & Design	$ 29,295,686		12%	$ 3,624,298	$ 32,919,984
14	31 CONSTRUCTION MANAGEMENT	Construction Management	$ 15,632,241		14%	$ 2,242,569	$ 17,874,810
XX	FIXED DOLLAR RISK ADD (EQUALLY DISPERSED TO ALL, MUST INCLUDE JUSTIFICATION SEE BELOW)					$ -	

Totals					
Real Estate	$ -	0%	$ -	$ -	
Total Construction Estimate	$ 196,879,609	34%	$ 67,171,623	$ 264,051,232	
Total Planning, Engineering & Design	$ 29,295,686	12%	$ 3,624,298	$ 32,919,984	
Total Construction Management	$ 15,632,241	14%	$ 2,242,569	$ 17,874,810	
Total Excluding Real Estate	**$ 241,807,536**	**30%**	**$ 73,038,490**	**$ 314,846,026**	
		Base	**50%**	**80%**	
Confidence Level Range Estimate ($000's)		$241,808k	$285,631k	$314,846k	

* 50% based on base is at 5% CL.

Fixed Dollar Risk Add: (Allows for additional risk to be added to the risk analsyis. Must include justification. Does not allocate to Real Estate.	

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**554,040**	**225,539**	**0**	**0**	**779,579**	**0**	**779,579**	**700,408**	**1,479,987**
Measure NS3. Remove Trees	**52.00**	**ACR**	**554,040**	**225,539**	**0**	**0**	**779,579**	**0**	**779,579**	**700,408**	**1,479,987**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**1,344,950**	**731,085**	**1,643,641**	**0**	**3,719,676**	**918,079**	**4,637,755**	**5,533,759**	**10,171,513**
Measure S26. Improve Low Flow Diversion System	**1.00**	**EA**	**1,344,950**	**731,085**	**1,643,641**	**0**	**3,719,676**	**918,079**	**4,637,755**	**5,533,759**	**10,171,513**
Concrete Sump	**2,916.00**	**SF**	**41,892**	**3,988**	**12,726**	**0**	**58,606**	**17,473**	**76,079**	**90,585**	**166,663**
(2) 48" Culvert	**900.00**	**LF**	**196,543**	**106,203**	**238,405**	**0**	**541,150**	**137,526**	**678,676**	**809,542**	**1,488,218**
(1) 72" Culvert	**4,200.00**	**LF**	**1,106,516**	**620,894**	**1,392,510**	**0**	**3,119,920**	**763,080**	**3,883,000**	**4,633,632**	**8,516,632**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**3,482**	**0**	**6,758**	**0**	**10,240**	**3,620**	**13,860**	**16,468**	**30,328**
Measure NS1. Implement Early Warning System and Evacuation Plan	**1.00**	**EA**	**3,482**	**0**	**6,758**	**0**	**10,240**	**3,620**	**13,860**	**16,468**	**30,328**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**264,059**	**44,286**	**529,129**	**0**	**837,474**	**286,519**	**1,123,992**	**3,160,504**	**4,284,497**
Measure S18. Protect Tunnel Inlet from Landslide Blockage	**1.00**	**EA**	**264,059**	**44,286**	**529,129**	**0**	**837,474**	**286,519**	**1,123,992**	**3,160,504**	**4,284,497**
Scaling Excavation	**1.00**	**EA**	**18,148**	**8,922**	**0**	**0**	**27,069**	**0**	**27,069**	**77,074**	**104,143**
Foundation Concrete	**1,280.00**	**SF**	**105,593**	**7,429**	**81,761**	**0**	**194,784**	**68,866**	**263,649**	**741,113**	**1,004,762**
Steel Girders	**94.30**	**TON**	**24,050**	**5,905**	**383,339**	**0**	**413,294**	**146,120**	**559,414**	**1,572,502**	**2,131,916**
Site Cast Roof Panels (fill irregular areas)	**64.00**	**CY**	**55,073**	**1,185**	**20,168**	**0**	**76,426**	**27,020**	**103,446**	**290,785**	**394,231**
Precast roof panels (prestressed for crack control)	**4,613.00**	**SF**	**61,195**	**20,845**	**43,861**	**0**	**125,901**	**44,512**	**170,414**	**479,030**	**649,444**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**2,742,592**	**641,459**	**959,500**	**0**	**4,343,551**	**1,535,258**	**5,878,809**	**18,422,264**	**24,301,073**
Measure S14 - 24': 150' Extend Tunnel Outlet into Resurrection Bay	**1.00**	**EA**	**2,742,592**	**641,459**	**959,500**	**0**	**4,343,551**	**1,535,258**	**5,878,809**	**18,422,264**	**24,301,073**
Drilled Piers - Rolled and Welded Pipe Can	**1.00**	**EA**	**908,283**	**203,319**	**467,555**	**0**	**1,579,157**	**558,311**	**2,137,469**	**6,698,111**	**8,835,579**
Concrete Pile Caps	**4.00**	**EA**	**250,783**	**6,319**	**101,483**	**0**	**358,586**	**126,778**	**485,363**	**1,520,967**	**2,006,330**
Cast-In_Place Flume Foundations	**1.00**	**EA**	**20,686**	**3,554**	**8,410**	**0**	**32,649**	**11,138**	**43,788**	**137,261**	**181,048**
Precast Concrete Flume Sections	**3.00**	**EA**	**1,562,840**	**428,268**	**382,052**	**0**	**2,373,159**	**839,030**	**3,212,189**	**10,065,926**	**13,278,115**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**30,206,229**	**7,857,572**	**5,082,525**	**0**	**43,146,325**	**13,661,637**	**56,807,962**	**15,758,393**	**72,566,355**
Measure S4 Enlarge Existing Tunnel, from 10' to 18'	**2,189.00**	**LF**	**30,206,229**	**7,857,572**	**5,082,525**	**0**	**43,146,325**	**13,661,637**	**56,807,962**	**15,758,393**	**72,566,355**
Remove existing 8" concrete lining	**77,928.40**	**SF**	**5,468,572**	**2,207,385**	**0**	**0**	**7,675,957**	**2,430,477**	**10,106,433**	**2,803,501**	**12,909,934**
Rock Excavation	**2,189.00**	**LF**	**4,554,873**	**1,770,231**	**14,168**	**0**	**6,339,273**	**2,007,236**	**8,346,509**	**2,315,302**	**10,661,810**
New 18' Tunnel	**2,189.00**	**LF**	**20,182,783**	**3,879,956**	**5,068,357**	**0**	**29,131,095**	**9,223,924**	**38,355,020**	**10,639,591**	**48,994,611**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**57,658,766**	**13,110,912**	**23,441,492**	**0**	**94,211,170**	**33,308,359**	**127,519,530**	**29,092,684**	**156,612,214**
Measure S4 Enlarge Existing Tunnel, from 10' to 24'	**2,189.00**	**LF**	**50,036,774**	**10,609,274**	**6,861,408**	**0**	**67,507,457**	**23,867,261**	**91,374,719**	**20,846,500**	**112,221,218**
Remove existing 8" concrete lining	**77,928.40**	**SF**	**8,966,299**	**2,979,970**	**0**	**0**	**11,946,269**	**4,223,603**	**16,169,872**	**3,689,043**	**19,858,914**
Rock Excavation	**2,189.00**	**LF**	**7,603,003**	**2,391,364**	**19,127**	**0**	**10,013,495**	**3,540,271**	**13,553,766**	**3,092,196**	**16,645,962**
New 24' Tunnel	**2,189.00**	**LF**	**33,467,472**	**5,237,940**	**6,842,281**	**0**	**45,547,694**	**16,103,387**	**61,651,081**	**14,065,261**	**75,716,342**
S8 Construct New Diversion Dam 30 ft Height	**1.00**	**EA**	**7,621,991**	**2,501,638**	**16,580,084**	**0**	**26,703,713**	**9,441,098**	**36,144,811**	**8,246,184**	**44,390,995**
Soil Excavation	**150,500.00**	**CY**	**2,159,935**	**847,246**	**0**	**0**	**3,007,181**	**1,063,189**	**4,070,370**	**928,626**	**4,998,996**
Roller Compacted Concrete	**67,000.00**	**CY**	**4,956,043**	**1,430,438**	**16,422,330**	**0**	**22,808,811**	**8,064,055**	**30,872,866**	**7,043,427**	**37,916,294**
Backfill with Excavated material	**83,500.00**	**CY**	**253,715**	**193,715**	**0**	**0**	**447,430**	**158,189**	**605,619**	**138,168**	**743,786**
Bedrock excavation	**350.00**	**CY**	**4,152**	**2,146**	**0**	**0**	**6,298**	**2,227**	**8,525**	**1,945**	**10,470**
Concrete - Intake Transition for 24' Diameter Tunnel	**400.00**	**CY**	**248,147**	**28,093**	**157,753**	**0**	**433,993**	**153,438**	**587,431**	**134,018**	**721,449**

Abbreviated Risk Analysis

Project (less than $40M): **Lowell Creek** **Alternative: #4A**

Project Development Stage/Alternative: **Feasibility (Recommended Plan)**

Risk Category: **Moderate Risk: Typical Project Construction Type** **Meeting Date: ---**

Total Estimated Construction Contract Cost = $ 75,545,327

	CWWBS	Feature of Work	Estimated Cost		% Contingency	$ Contingency	Total
	01 LANDS AND DAMAGES	Real Estate	$ -		0%	$ -	$ -
1	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	NS3 - Tree removal	$ 1,479,986		12%	$ 177,219	$ 1,657,205
2	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S1 & S8 - Construct Additional Tunnel and Diversion Dam	$ 49,840,042		38%	$ 19,038,239	$ 68,878,281
3	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	NS1 - Implement Early Warning System and Evacuation Plan	$ 30,328		29%	$ 8,858	$ 39,186
4	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S18 - Protect Tunnel Inlet from Landslide Blockage	$ 4,284,496		38%	$ 1,634,260	$ 5,918,756
5	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S14 - 18': 150' Extend Tunnel Outlet into Resurrection Bay	$ 10,512,214		38%	$ 3,977,097	$ 14,489,311
6	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S3 - Refurbish Existing Tunnel	$ 9,398,261		33%	$ 3,056,525	$ 12,454,786
7					0%	$ -	$ -
8					0%	$ -	$ -
9					0%	$ -	$ -
10					0%	$ -	$ -
11					0%	$ -	$ -
12	All Other		$ -	*0.0%*	0%	$ -	$ -
13	30 PLANNING, ENGINEERING, AND DESIGN	Planning, Engineering, & Design	$ 11,241,145		12%	$ 1,390,692	$ 12,631,836
14	31 CONSTRUCTION MANAGEMENT	Construction Management	$ 5,998,299		14%	$ 860,503	$ 6,858,802
XX	FIXED DOLLAR RISK ADD (EQUALLY DISPERSED TO ALL, MUST INCLUDE JUSTIFICATION SEE BELOW)					$ -	

Totals					
Real Estate	$ -	0%	$ -	$ -	
Total Construction Estimate	$ 75,545,327	37%	$ 27,892,197	$ 103,437,524	
Total Planning, Engineering & Design	$ 11,241,145	12%	$ 1,390,692	$ 12,631,836	
Total Construction Management	$ 5,998,299	14%	$ 860,503	$ 6,858,802	
Total Excluding Real Estate	**$ 92,784,771**	**32%**	**$ 30,143,392**	**$ 122,928,162**	
			Base	**50%**	**80%**
Confidence Level Range Estimate ($000's)			$92,785k	$110,871k	$122,928k

* 50% based on base is at 5% CL.

Fixed Dollar Risk Add: (Allows for additional risk to be added to the risk analsyis. Must include justification. Does not allocate to Real Estate.	

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**554,040**	**225,539**	**0**	**0**	**779,579**	**0**	**779,579**	**700,408**	**1,479,987**
Measure NS3. Remove Trees	**52.00**	**ACR**	**554,040**	**225,539**	**0**	**0**	**779,579**	**0**	**779,579**	**700,408**	**1,479,987**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**10,134,570**	**2,943,881**	**14,684,926**	**0**	**27,763,377**	**9,815,742**	**37,579,119**	**12,260,924**	**49,840,043**
S1 Construct New Tunnel	**2,220.00**	**LF**	**4,832,303**	**1,195,706**	**3,098,564**	**0**	**9,126,574**	**3,226,700**	**12,353,274**	**4,030,498**	**16,383,771**
Rock Excavation	**2,220.00**	**LF**	**1,123,951**	**469,610**	**18,227**	**0**	**1,611,788**	**569,848**	**2,181,636**	**711,801**	**2,893,437**
New 18' Tunnel	**2,220.00**	**LF**	**3,708,352**	**726,096**	**3,080,337**	**0**	**7,514,786**	**2,656,852**	**10,171,638**	**3,318,696**	**13,490,334**
S8 Construct New Diversion Dam 30 ft Height	**1.00**	**EA**	**5,302,267**	**1,748,175**	**11,586,362**	**0**	**18,636,804**	**6,589,042**	**25,225,845**	**8,230,426**	**33,456,272**
Soil Excavation	**150,500.00**	**CY**	**1,501,977**	**592,066**	**0**	**0**	**2,094,043**	**740,349**	**2,834,391**	**924,776**	**3,759,167**
Roller Compacted Concrete	**67,000.00**	**CY**	**3,448,601**	**999,607**	**11,476,122**	**0**	**15,924,330**	**5,630,047**	**21,554,377**	**7,032,538**	**28,586,915**
Backfill with Excavated material	**83,500.00**	**CY**	**176,601**	**135,371**	**0**	**0**	**311,971**	**110,297**	**422,269**	**137,773**	**560,042**
Bedrock excavation	**350.00**	**CY**	**2,885**	**1,500**	**0**	**0**	**4,385**	**1,550**	**5,935**	**1,936**	**7,871**
Concrete - Intake Transition for 18' Diameter Tunnel	**400.00**	**CY**	**172,203**	**19,632**	**110,240**	**0**	**302,075**	**106,798**	**408,873**	**133,403**	**542,276**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**3,482**	**0**	**6,758**	**0**	**10,240**	**3,620**	**13,860**	**16,468**	**30,328**
Measure NS1. Implement Early Warning System and Evacuation Plan	**1.00**	**EA**	**3,482**	**0**	**6,758**	**0**	**10,240**	**3,620**	**13,860**	**16,468**	**30,328**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**264,059**	**44,286**	**529,129**	**0**	**837,474**	**286,519**	**1,123,992**	**3,160,504**	**4,284,497**
Measure S18. Protect Tunnel Inlet from Landslide Blockage	**1.00**	**EA**	**264,059**	**44,286**	**529,129**	**0**	**837,474**	**286,519**	**1,123,992**	**3,160,504**	**4,284,497**
Scaling Excavation	**1.00**	**EA**	**18,148**	**8,922**	**0**	**0**	**27,069**	**0**	**27,069**	**77,074**	**104,143**
Foundation Concrete	**1,280.00**	**SF**	**105,593**	**7,429**	**81,761**	**0**	**194,784**	**68,866**	**263,649**	**741,113**	**1,004,762**
Steel Girders	**94.30**	**TON**	**24,050**	**5,905**	**383,339**	**0**	**413,294**	**146,120**	**559,414**	**1,572,502**	**2,131,916**
Site Cast Roof Panels (fill irregular areas)	**64.00**	**CY**	**55,073**	**1,185**	**20,168**	**0**	**76,426**	**27,020**	**103,446**	**290,785**	**394,231**
Precast roof panels (prestressed for crack control)	**4,613.00**	**SF**	**61,195**	**20,845**	**43,861**	**0**	**125,901**	**44,512**	**170,414**	**479,030**	**649,444**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**1,909,221**	**424,819**	**645,478**	**0**	**2,979,519**	**1,052,437**	**4,031,956**	**6,480,259**	**10,512,214**
Measure S14 - 18': 150' Extend Tunnel Outlet into Resurrection Bay	**1.00**	**EA**	**1,909,221**	**424,819**	**645,478**	**0**	**2,979,519**	**1,052,437**	**4,031,956**	**6,480,259**	**10,512,214**
Drilled Piers - Rolled and Welded Pipe Can	**3.00**	**EA**	**483,019**	**125,443**	**255,028**	**0**	**863,490**	**305,287**	**1,168,777**	**1,878,467**	**3,047,243**
Concrete Pile Caps	**3.00**	**EA**	**80,427**	**4,250**	**36,244**	**0**	**120,921**	**42,752**	**163,673**	**263,057**	**426,730**
Cast-In_Place Flume Foundations	**1.00**	**EA**	**49,047**	**8,732**	**20,720**	**0**	**78,499**	**26,781**	**105,280**	**169,275**	**274,555**
Precast Concrete Flume Sections	**4.00**	**EA**	**1,296,729**	**286,394**	**333,487**	**0**	**1,916,609**	**677,617**	**2,594,226**	**4,169,460**	**6,763,686**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**777,621**	**87,364**	**427,311**	**0**	**1,292,296**	**456,891**	**1,749,187**	**7,649,075**	**9,398,262**
Measure S3: Refurbish Existing Tunnel	**1.00**	**EA**	**777,621**	**87,364**	**427,311**	**0**	**1,292,296**	**456,891**	**1,749,187**	**7,649,075**	**9,398,262**
Demolition of Existing 10,000 psi concrete	**450.00**	**CY**	**189,666**	**49,356**	**0**	**0**	**239,022**	**84,506**	**323,529**	**1,414,769**	**1,738,297**
Demolition of Existing 4,000 psi concrete	**1.00**	**EA**	**12,146**	**6,720**	**129**	**0**	**18,995**	**6,716**	**25,711**	**112,432**	**138,143**
Repair Invert with Armor and Concrete	**1.00**	**EA**	**513,702**	**22,119**	**406,981**	**0**	**942,803**	**333,328**	**1,276,131**	**5,580,433**	**6,856,564**
Wall and Crown Surface - Linear Repairs	**1.00**	**EA**	**4,018**	**230**	**188**	**0**	**4,436**	**1,568**	**6,004**	**26,255**	**32,260**
Wall and Crown Surface - Surface Repairs	**1.00**	**EA**	**21,758**	**7,732**	**159**	**0**	**29,649**	**10,482**	**40,131**	**175,490**	**215,621**
Contact Grout Crown	**1.00**	**EA**	**36,331**	**1,207**	**19,853**	**0**	**57,391**	**20,291**	**77,681**	**339,696**	**417,377**

Abbreviated Risk Analysis

Project (less than $40M): **Lowell Creek** **Alternative: #4B**

Project Development Stage/Alternative: **Feasibility (Recommended Plan)**

Risk Category: **Moderate Risk: Typical Project Construction Type** **Meeting Date: ---**

Total Estimated Construction Contract Cost = $ 105,868,103

	CWWBS	Feature of Work	Estimated Cost		% Contingency	$ Contingency	Total
	01 LANDS AND DAMAGES	Real Estate	$ -		0%	$ -	$ -
1	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	NS3 - Tree removal	$ 1,479,986		12%	$ 177,219	$ 1,657,205
2	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S1 & S8 - Construct Additional Tunnel and Diversion Dam	$ 66,373,959		38%	$ 25,353,977	$ 91,727,936
3	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	NS1 - Implement Early Warning System and Evacuation Plan	$ 30,328		29%	$ 8,858	$ 39,186
4	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S18 - Protect Tunnel Inlet from Landslide Blockage	$ 4,284,496		38%	$ 1,634,260	$ 5,918,756
5	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S14 - 24': 150' Extend Tunnel Outlet into Resurrection Bay	$ 24,301,073		38%	$ 9,193,850	$ 33,494,923
6	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	S3 - Refurbish Existing Tunnel	$ 9,398,261		33%	$ 3,056,525	$ 12,454,786
7					0%	$ -	$ -
8					0%	$ -	$ -
9					0%	$ -	$ -
10					0%	$ -	$ -
11					0%	$ -	$ -
12	All Other		$ -	*0.0%*	0%	$ -	$ -
13	30 PLANNING, ENGINEERING, AND DESIGN	Planning, Engineering, & Design	$ 15,753,174		12%	$ 1,948,895	$ 17,702,068
14	31 CONSTRUCTION MANAGEMENT	Construction Management	$ 8,405,927		14%	$ 1,205,897	$ 9,611,824
XX	FIXED DOLLAR RISK ADD (EQUALLY DISPERSED TO ALL, MUST INCLUDE JUSTIFICATION SEE BELOW)					$ -	

Totals					
Real Estate	$ -	0%	$ -	$ -	
Total Construction Estimate	$ 105,868,103	37%	$ 39,424,688	$ 145,292,791	
Total Planning, Engineering & Design	$ 15,753,174	12%	$ 1,948,895	$ 17,702,068	
Total Construction Management	$ 8,405,927	14%	$ 1,205,897	$ 9,611,824	
Total Excluding Real Estate	**$ 130,027,204**	**33%**	**$ 42,579,479**	**$ 172,606,683**	
		Base	**50%**	**80%**	
Confidence Level Range Estimate ($000's)		$130,027k	$155,575k	$172,607k	

* 50% based on base is at 5% CL.

Fixed Dollar Risk Add: (Allows for additional risk to be added to the risk analsyis. Must include justification. Does not allocate to Real Estate.	

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**554,040**	**225,539**	**0**	**0**	**779,579**	**0**	**779,579**	**700,408**	**1,479,987**
Measure NS3. Remove Trees	**52.00**	**ACR**	**554,040**	**225,539**	**0**	**0**	**779,579**	**0**	**779,579**	**700,408**	**1,479,987**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**13,707,724**	**3,974,239**	**19,824,650**	**0**	**37,506,614**	**13,260,463**	**50,767,077**	**15,606,883**	**66,373,959**
S1 Construct New Tunnel	**2,220.00**	**LF**	**6,538,349**	**1,614,204**	**4,183,062**	**0**	**12,335,614**	**4,361,256**	**16,696,870**	**5,132,974**	**21,829,844**
Rock Excavation	**2,220.00**	**LF**	**1,520,673**	**633,974**	**24,606**	**0**	**2,179,253**	**770,475**	**2,949,728**	**906,809**	**3,856,537**
New 24' Tunnel	**2,220.00**	**LF**	**5,017,676**	**980,230**	**4,158,455**	**0**	**10,156,361**	**3,590,781**	**13,747,143**	**4,226,165**	**17,973,308**
S8 Construct New Diversion Dam 30 ft Height	**1.00**	**EA**	**7,169,375**	**2,360,036**	**15,641,588**	**0**	**25,171,000**	**8,899,207**	**34,070,207**	**10,473,908**	**44,544,115**
Soil Excavation	**150,500.00**	**CY**	**2,031,368**	**799,289**	**0**	**0**	**2,830,657**	**1,000,779**	**3,831,435**	**1,177,865**	**5,009,300**
Roller Compacted Concrete	**67,000.00**	**CY**	**4,662,189**	**1,349,470**	**15,492,764**	**0**	**21,504,423**	**7,602,889**	**29,107,312**	**8,948,209**	**38,055,520**
Backfill with Excavated material	**83,500.00**	**CY**	**238,703**	**182,750**	**0**	**0**	**421,453**	**149,005**	**570,458**	**175,371**	**745,829**
Bedrock excavation	**350.00**	**CY**	**3,904**	**2,024**	**0**	**0**	**5,928**	**2,096**	**8,024**	**2,467**	**10,491**
Concrete - Intake Transition for 24' Diameter Tunnel	**400.00**	**CY**	**233,212**	**26,503**	**148,824**	**0**	**408,538**	**144,439**	**552,977**	**169,997**	**722,974**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**3,482**	**0**	**6,758**	**0**	**10,240**	**3,620**	**13,860**	**16,468**	**30,328**
Measure NS1. Implement Early Warning System and Evacuation Plan	**1.00**	**EA**	**3,482**	**0**	**6,758**	**0**	**10,240**	**3,620**	**13,860**	**16,468**	**30,328**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**264,059**	**44,286**	**529,129**	**0**	**837,474**	**286,519**	**1,123,992**	**3,160,504**	**4,284,497**
Measure S18. Protect Tunnel Inlet from Landslide Blockage	**1.00**	**EA**	**264,059**	**44,286**	**529,129**	**0**	**837,474**	**286,519**	**1,123,992**	**3,160,504**	**4,284,497**
Scaling Excavation	**1.00**	**EA**	**18,148**	**8,922**	**0**	**0**	**27,069**	**0**	**27,069**	**77,074**	**104,143**
Foundation Concrete	**1,280.00**	**SF**	**105,593**	**7,429**	**81,761**	**0**	**194,784**	**68,866**	**263,649**	**741,113**	**1,004,762**
Steel Girders	**94.30**	**TON**	**24,050**	**5,905**	**383,339**	**0**	**413,294**	**146,120**	**559,414**	**1,572,502**	**2,131,916**
Site Cast Roof Panels (fill irregular areas)	**64.00**	**CY**	**55,073**	**1,185**	**20,168**	**0**	**76,426**	**27,020**	**103,446**	**290,785**	**394,231**
Precast roof panels (prestressed for crack control)	**4,613.00**	**SF**	**61,195**	**20,845**	**43,861**	**0**	**125,901**	**44,512**	**170,414**	**479,030**	**649,444**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**2,742,592**	**641,459**	**959,500**	**0**	**4,343,551**	**1,535,258**	**5,878,809**	**18,422,264**	**24,301,073**
Measure S14 - 24': 150' Extend Tunnel Outlet into Resurrection Bay	**1.00**	**EA**	**2,742,592**	**641,459**	**959,500**	**0**	**4,343,551**	**1,535,258**	**5,878,809**	**18,422,264**	**24,301,073**
Drilled Piers - Rolled and Welded Pipe Can	**1.00**	**EA**	**908,283**	**203,319**	**467,555**	**0**	**1,579,157**	**558,311**	**2,137,469**	**6,698,111**	**8,835,579**
Concrete Pile Caps	**4.00**	**EA**	**250,783**	**6,319**	**101,483**	**0**	**358,586**	**126,778**	**485,363**	**1,520,967**	**2,006,330**
Cast-In_Place Flume Foundations	**1.00**	**EA**	**20,686**	**3,554**	**8,410**	**0**	**32,649**	**11,138**	**43,788**	**137,261**	**181,048**
Precast Concrete Flume Sections	**3.00**	**EA**	**1,562,840**	**428,268**	**382,052**	**0**	**2,373,159**	**839,030**	**3,212,189**	**10,065,926**	**13,278,115**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU	ContractCost
Contract Summary Cost Report			**777,621**	**87,364**	**427,311**	**0**	**1,292,296**	**456,891**	**1,749,187**	**7,649,075**	**9,398,262**
Measure S3: Refurbish Existing Tunnel	**1.00**	**EA**	**777,621**	**87,364**	**427,311**	**0**	**1,292,296**	**456,891**	**1,749,187**	**7,649,075**	**9,398,262**
Demolition of Existing 10,000 psi concrete	**450.00**	**CY**	**189,666**	**49,356**	**0**	**0**	**239,022**	**84,506**	**323,529**	**1,414,769**	**1,738,297**
Demolition of Existing 4,000 psi concrete	**1.00**	**EA**	**12,146**	**6,720**	**129**	**0**	**18,995**	**6,716**	**25,711**	**112,432**	**138,143**
Repair Invert with Armor and Concrete	**1.00**	**EA**	**513,702**	**22,119**	**406,981**	**0**	**942,803**	**333,328**	**1,276,131**	**5,580,433**	**6,856,564**
Wall and Crown Surface - Linear Repairs	**1.00**	**EA**	**4,018**	**230**	**188**	**0**	**4,436**	**1,568**	**6,004**	**26,255**	**32,260**
Wall and Crown Surface - Surface Repairs	**1.00**	**EA**	**21,758**	**7,732**	**159**	**0**	**29,649**	**10,482**	**40,131**	**175,490**	**215,621**
Contact Grout Crown	**1.00**	**EA**	**36,331**	**1,207**	**19,853**	**0**	**57,391**	**20,291**	**77,681**	**339,696**	**417,377**

Description	UOM	Quantity	ContractCost	Contingency	ProjectCost
Project Cost Report			**245,803,016**	**122,901,508**	**368,704,523**
Demolition	**LS**	**1.00**	**8,896,895**	**4,448,447**	**13,345,342**
Construct Dike	**EA**	**1.00**	**82,090,462**	**41,045,231**	**123,135,692**
Soil Excavation	**CY**	**67,200.00**	**3,127,589**	**1,563,794**	**4,691,383**
Roller Compacted Concrete	**CY**	**149,333.00**	**78,962,873**	**39,481,437**	**118,444,310**
Construct 2 lanes highway viaduct to reconnect separated portion of Seward to Alaska Highway System	**SF**	**28,800.00**	**27,032,324**	**13,516,162**	**40,548,487**
Assessed Value - Fair Market Value	**LS**	**1.00**	**127,783,335**	**63,891,668**	**191,675,003**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
Direct Costs Report			**10,861,868**	**3,299,263**	**31,973,203**	**147,975,335**	**194,109,669**	**23,449,675**	**217,559,345**	**28,243,671**
Demolition	**1.00**	**LS**	**0**	**0**	**0**	**5,000,000**	**5,000,000**	**1,767,750**	**6,767,750**	**2,129,145**
USR Demolition	1.00	LS	0	0	0	5,000,000	5,000,000	1,767,750	6,767,750	2,129,145
(Note: clear floodway and dike footprint of structures and utilities. assume 9% of the total contract cost.)										
Construct Dike	**1.00**	**EA**	**10,861,868**	**3,299,263**	**31,973,203**	**0**	**46,134,334**	**16,310,794**	**62,445,128**	**19,645,333**
Soil Excavation	**67,200.00**	**CY**	**1,243,388**	**514,298**	**0**	**0**	**1,757,686**	**621,430**	**2,379,115**	**748,473**
HNC 312316440100 Excavate and load, bank measure, medium material, 3/4 C.Y. bucket, hydraulic excavator	67,200.00	BCY	336,130	101,338	0	0	437,469	154,667	592,136	186,287
HNC 312316400020 Excavate and fill, 75 H.P. dozer, move 150', stockpile	67,200.00	BCY	381,668	156,331	0	0	537,999	190,209	728,208	229,095
(Note: assume reuse as backfill)										
RSM 312323200232 Cycle hauling (wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loose cubic yards, 20 min wait/load/unload, 8 C.Y. truck, cycle 4 miles, 20 MPH, excludes loading equipment	73,920.00	LCY	525,590	256,628	0	0	782,218	276,553	1,058,771	333,091
Roller Compacted Concrete	**149,333.00**	**CY**	**9,618,481**	**2,784,965**	**31,973,203**	**0**	**44,376,649**	**15,689,364**	**60,066,013**	**18,896,860**
RSM 033723500200 Roller compacted concrete, mass placement, 2' lift, 6" layer, includes spread and compact, excludes material	149,333.00	CY	106,019	150,365	0	0	256,383	90,644	347,028	109,175
RSM 033113350300 Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivered, excludes all additives and treatments	164,266.30	CY	0	0	31,973,203	0	31,973,203	11,304,126	43,277,329	13,615,114
(Note: w/5% waste)										

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
RSM 033723500220 Roller compacted concrete, mass placement, formed vertical face, 6" lift, includes spread and compact, excludes material	149,333.00	CY	1,556,003	135,353	0	0	1,691,356	597,979	2,289,335	720,228
RSM 033723500590 Roller compacted concrete, conveyance of materials, with belt conveyor, excludes material	149,333.00	CY	1,237,379	37,066	0	0	1,274,445	450,580	1,725,025	542,695
USR Deliver concrete (aggegrate, sand, PCC) from Soldotna to Seward	164,266.00	LCY	6,719,080	2,462,182	0	0	9,181,261	3,246,035	12,427,296	3,909,647
(Note: Assume round trip distance from Soldotna to Seward is 2 x 93 miles = 186 miles. Assume truck average speed is 40 mph. Estimated Hours required = 4.65 hrs. Therefore, delivery truck production = 20 cy/4.65 hrs = 4.30 cy/hrs x 1.10 = 4.73 lcy/hr)										
Construct 2 lanes highway viaduct to reconnect separated portion of Seward to Alaska Highway System	**28,800.00**	**SF**	**0**	**0**	**0**	**15,192,000**	**15,192,000**	**5,371,132**	**20,563,132**	**6,469,193**
(Note: Assume bridge L= 800', W=36')										
USR Construct New Bridge	28,800.00	SF	0	0	0	15,192,000	15,192,000	5,371,132	20,563,132	6,469,193
(Note: Reference 2011 bridge unit cost from Western Alaska Planning Study. Unit Cost= $381/sf x 1.1062 (escalation to 2020) = $422/sf (assume include new bridge, roadways, mob/demob))										
Assessed Value - Fair Market Value	**1.00**	**LS**	**0**	**0**	**0**	**127,783,335**	**127,783,335**	**0**	**127,783,335**	**0**
USR Assessed Value	1.00	LS	0	0	0	127,783,335	127,783,335	0	127,783,335	0
(Note: Referenced Fair Market Value from CEPOA-Realty Specialist-RG.)										

Description	UOM	Quantity	ContractCost	Contingency	ProjectCost
Project Cost Report			**76,473,639**	**38,236,820**	**114,710,459**
Demo and Construct New Hospital	**LS**	**1.00**	**47,530,666**	**23,765,333**	**71,295,998**
Hospital Demolition	**SF**	**20,000.00**	**1,084,887**	**542,444**	**1,627,331**
SUBSTRUCTURE & SUPERSTRUCTURE	**EA**	**1.00**	**32,642**	**16,321**	**48,963**
COMMON EXCAVATION	**EA**	**1.00**	**57,859**	**28,930**	**86,789**
SITE DEMOLITION & RELOCATIONS	**EA**	**1.00**	**875,325**	**437,662**	**1,312,987**
Clean up of 1 known leaky UST (diesel) for hospital generator	**EA**	**1.00**	**119,062**	**59,531**	**178,593**
Construct New Hospital	**SF**	**20,000.00**	**37,397,081**	**18,698,540**	**56,095,621**
SUBSTRUCTURE	**EA**	**1.00**	**1,585,956**	**792,978**	**2,378,934**
SHELL	**EA**	**1.00**	**10,565,067**	**5,282,534**	**15,847,601**
INTERIORS	**EA**	**1.00**	**2,883,898**	**1,441,949**	**4,325,846**
SERVICES	**EA**	**1.00**	**21,711,615**	**10,855,807**	**32,567,422**
EQUIPMENT & FURNISHINGS	**EA**	**1.00**	**628,735**	**314,367**	**943,102**
SPECIAL CONSTRUCTION & DEMOLITION	**EA**	**1.00**	**21,810**	**10,905**	**32,716**
Construct Supporting Facilities for New Hospital (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**EA**	**1.00**	**9,048,698**	**4,524,349**	**13,573,046**
Demo and Construct New Apartment	**SF**	**33,000.00**	**8,305,752**	**4,152,876**	**12,458,628**
Apartment Demolition	**SF**	**33,000.00**	**550,066**	**275,033**	**825,098**
Construct New Apartment	**SF**	**33,000.00**	**6,207,883**	**3,103,941**	**9,311,824**
Construct Supporting Facilities for New Apartment (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**EA**	**1.00**	**1,547,804**	**773,902**	**2,321,705**
Demo and Construct 17 New Houses	**LS**	**1.00**	**18,339,329**	**9,169,664**	**27,508,993**
Houses Demolition	**SF**	**40,800.00**	**485,772**	**242,886**	**728,658**
Construct 17 Houses	**SF**	**40,800.00**	**14,281,702**	**7,140,851**	**21,422,553**
Construct Supporting Facilities for New Houses (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**EA**	**1.00**	**3,571,854**	**1,785,927**	**5,357,781**
Land acquisition to relocate Seward area just north of the Safeway	**ACR**	**5.00**	**2,297,893**	**1,148,946**	**3,446,839**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
Direct Costs Report			**8,143,914**	**170,622**	**11,599,956**	**20,229,384**	**40,143,875**	**14,192,867**	**54,336,742**	**22,136,897**
Demo and Construct New Hospital	**1.00**	**LS**	**8,143,914**	**170,622**	**11,599,956**	**5,036,134**	**24,950,625**	**8,821,294**	**33,771,919**	**13,758,747**
MDL-24 Hospital Demolition	**20,000.00**	**SF**	**82,501**	**48,440**	**345,685**	**92,872**	**569,498**	**201,346**	**770,844**	**314,043**
F201001 SUBSTRUCTURE & SUPERSTRUCTURE	**1.00**	**EA**	**8,003**	**9,132**	**0**	**0**	**17,135**	**6,058**	**23,193**	**9,449**
USR F2010010124 Remove Slab on Grade 101.60mm - 152.40mm (4"-6")	20,000.00	SF	8,003	9,132	0	0	17,135	6,058	23,193	9,449
G103002 COMMON EXCAVATION	**1.00**	**EA**	**0**	**0**	**0**	**30,372**	**30,372**	**10,738**	**41,111**	**16,749**
USR G1030020224 966, 3.06m3 (4 CY), Wheel Loader	48.00	HR	0	0	0	7,803	7,803	2,759	10,562	4,303
USR G1030020288 19.88m3 (26 CY), Semi Dump	194.00	HR	0	0	0	22,569	22,569	7,979	30,549	12,446
G1020 SITE DEMOLITION & RELOCATIONS	**1.00**	**EA**	**74,497**	**39,308**	**345,685**	**0**	**459,491**	**162,453**	**621,944**	**253,381**
G102001 BUILDING MASS DEMOLITION	**1.00**	**EA**	**74,497**	**39,308**	**0**	**0**	**113,806**	**40,236**	**154,041**	**62,757**
USR G1020010105 Single-Level, Steel, Non-Explosive, Bldg Demolition	240,000.00	CF	74,497	39,308	0	0	113,806	40,236	154,041	62,757
G102007 SITE CLEANUP	**1.00**	**EA**	**0**	**0**	**345,685**	**0**	**345,685**	**122,217**	**467,902**	**190,624**
USR G1020070401 Dump Charge	8,136.00	CY	0	0	345,685	0	345,685	122,217	467,902	190,624
Clean up of 1 known leaky UST (diesel) for hospital generator	**1.00**	**EA**	**0**	**0**	**0**	**62,500**	**62,500**	**22,097**	**84,597**	**34,465**
USR Clean up of 1 known leaky UST (diesel) for hospital generator	1.00	EA	0	0	0	62,500	62,500	22,097	84,597	34,465
MDL-23 Construct New Hospital	**20,000.00**	**SF**	**8,061,413**	**122,182**	**11,254,270**	**193,262**	**19,631,127**	**6,940,585**	**26,571,712**	**10,825,368**
A SUBSTRUCTURE	**1.00**	**EA**	**535,526**	**41,864**	**255,137**	**0**	**832,528**	**294,340**	**1,126,868**	**459,088**
A10 FOUNDATIONS	**1.00**	**EA**	**152,195**	**6,218**	**131,226**	**0**	**289,639**	**102,402**	**392,041**	**159,718**
A1010 STANDARD FOUNDATIONS	**1.00**	**EA**	**97,981**	**4,374**	**72,018**	**0**	**174,373**	**61,650**	**236,023**	**96,156**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
A101001 WALL FOUNDATIONS	**1.00**	**EA**	**81,920**	**3,841**	**47,911**	**0**	**133,672**	**47,260**	**180,932**	**73,712**
USR A1010010103 1'0" X 3'0" Strip Footing 3000 PSI	380.67	LF	8,754	294	12,652	0	21,700	7,672	29,372	11,966
USR A1010010121 Frost Depth Modification To Foundation Wall	1,653.10	LF	52,171	2,073	22,791	0	77,034	27,235	104,269	42,479
USR A1010010132 380 mm(15") Thick Concrete Foundation Wall 27,579 kPa(4000 PSI), 1140 mm (45") Deep	209.73	LF	20,995	1,475	12,469	0	34,939	12,353	47,291	19,267
A101002 COLUMN FOUNDATIONS & PILE CAPS	**1.00**	**EA**	**16,061**	**533**	**24,107**	**0**	**40,701**	**14,390**	**55,090**	**22,444**
USR A1010020201 Spread Footing	94.59	CY	10,800	510	18,460	0	29,770	10,525	40,296	16,417
USR A1010020212 Column Piers 0.61 m X 0.61 m X 0.91 m(2'0" X 2'0" X 3'0") High	5.00	EA	1,386	22	1,213	0	2,622	927	3,549	1,446
USR A1010020241 Spread Footing, Reinforcing Steel	2.45	TON	3,496	0	4,051	0	7,548	2,668	10,216	4,162
USR A1010020277 Spread Footing Column Bolts	23.00	EA	379	0	382	0	761	269	1,030	419
A1030 SLAB ON GRADE	**1.00**	**EA**	**54,215**	**1,844**	**59,208**	**0**	**115,266**	**40,752**	**156,018**	**63,562**
A103001 STANDARD SLAB ON GRADE	**1.00**	**EA**	**42,800**	**1,321**	**52,686**	**0**	**96,807**	**34,226**	**131,033**	**53,383**
USR A1030010101 101.6 mm(4") Standard Slab On Grade	10,140.65	SF	39,793	1,197	48,505	0	89,495	31,641	121,136	49,351
USR A1030010103 152.4 mm(6") Standard Slab On Grade	624.58	SF	2,488	74	3,804	0	6,366	2,251	8,617	3,511
USR A1030010110 152.4 mm(6") Thick Sub-Slab On Grade	53.77	SF	518	50	377	0	946	334	1,280	521
A103004 PITS AND BASES	**1.00**	**EA**	**11,415**	**522**	**6,522**	**0**	**18,459**	**6,526**	**24,985**	**10,179**
USR A1030040501 Elevator Pit 3.66 m X 3.66 m X 2.44 m(12' X 12' X 8') Deep Includes Slab/Walls	1.00	EA	11,415	522	6,522	0	18,459	6,526	24,985	10,179

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
A20 BASEMENT CONSTRUCTION	**1.00**	**EA**	**383,331**	**35,646**	**123,911**	**0**	**542,889**	**191,938**	**734,827**	**299,370**
A2010 BASEMENT EXCAVATION	**1.00**	**EA**	**102,024**	**35,405**	**0**	**0**	**137,428**	**48,588**	**186,016**	**75,783**
A201001 EXCAVATION FOR BASEMENTS	**1.00**	**EA**	**79,011**	**30,889**	**0**	**0**	**109,900**	**38,855**	**148,755**	**60,603**
USR A2010010101 Excavation For Basement With 1:1 Slope	4,407.74	CY	79,011	30,889	0	0	109,900	38,855	148,755	60,603
A201002 STRUCTURE BACKFILL & COMPACTION	**1.00**	**EA**	**23,013**	**4,515**	**0**	**0**	**27,528**	**9,733**	**37,261**	**15,180**
USR A2010020201 Backfill And Compaction To Basement Walls	4,407.74	CY	23,013	4,515	0	0	27,528	9,733	37,261	15,180
A2020 BASEMENT WALLS	**1.00**	**EA**	**281,307**	**242**	**123,911**	**0**	**405,461**	**143,351**	**548,811**	**223,587**
A202001 BASEMENT WALL CONSTRUCTION	**1.00**	**EA**	**259,484**	**242**	**96,166**	**0**	**355,892**	**125,826**	**481,718**	**196,253**
USR A2020010101 8" Cast In Place Basement Wall Over 8 Feet High	9,152.00	SF	259,484	242	96,166	0	355,892	125,826	481,718	196,253
A202002 MOISTURE PROTECTION	**1.00**	**EA**	**14,382**	**0**	**9,932**	**0**	**24,314**	**8,596**	**32,910**	**13,408**
USR A2020020201 Basement Moisture Protection, 1/8" Thick Asphalt	9,152.00	SF	14,382	0	9,932	0	24,314	8,596	32,910	13,408
A202003 BASEMENT WALL INSULATION	**1.00**	**EA**	**7,441**	**0**	**17,814**	**0**	**25,254**	**8,929**	**34,183**	**13,926**
USR A2020030301 2" Thick Polystyrene Insulation, R Value Of 8	9,152.00	SF	7,441	0	17,814	0	25,254	8,929	34,183	13,926
B SHELL	**1.00**	**EA**	**1,777,287**	**70,268**	**3,698,444**	**0**	**5,545,999**	**1,960,788**	**7,506,787**	**3,058,280**
B10 SUPERSTRUCTURE	**1.00**	**EA**	**453,198**	**40,498**	**1,597,047**	**0**	**2,090,744**	**739,183**	**2,829,927**	**1,152,918**
B1010 FLOOR CONSTRUCTION	**1.00**	**EA**	**323,844**	**24,029**	**1,005,336**	**0**	**1,353,209**	**478,427**	**1,831,636**	**746,212**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
B101001 STRUCTURAL FRAME	**1.00**	**EA**	**91,341**	**13,746**	**529,358**	**0**	**634,444**	**224,308**	**858,752**	**349,857**
USR B1010010116 Spec Span, Lt Ld, Stl Frm, Mtl Joist	64.39	TON	79,455	11,998	423,020	0	514,473	181,892	696,365	283,701
USR B1010010126 Structural Steel, Lt Load, Columns	14.27	TON	11,885	1,748	65,137	0	78,771	27,849	106,620	43,437
USR B1010010199 Seismic Modifications	19,999.00	SF	0	0	41,200	0	41,200	14,566	55,766	22,719
B101003 FLOOR DECKS AND SLABS	**1.00**	**EA**	**22,956**	**1,874**	**65,662**	**0**	**90,491**	**31,993**	**122,484**	**49,900**
USR B1010030313 Floor Slab Of 38.1 mm(1-1/2") Steel Deck, 101.6 mm(4") Concrete Fill	12,347.74	SF	22,956	1,874	65,662	0	90,491	31,993	122,484	49,900
B101090 OTHER FLOOR CONSTRUCTION	**1.00**	**EA**	**209,547**	**8,410**	**410,316**	**0**	**628,274**	**222,126**	**850,400**	**346,455**
USR B1010909001 Interstitial Floor	15,312.24	SF	209,547	8,410	410,316	0	628,274	222,126	850,400	346,455
B1020 ROOF CONSTRUCTION	**1.00**	**EA**	**129,354**	**16,469**	**591,712**	**0**	**737,535**	**260,755**	**998,290**	**406,705**
B102001 STRUCTURAL FRAME	**1.00**	**EA**	**112,153**	**15,884**	**554,067**	**0**	**682,104**	**241,158**	**923,262**	**376,139**
USR B1020010117 Spec Span, Lt Ld, Stl Frm, Mtl Joist	80.96	TON	109,138	15,440	537,544	0	662,122	234,093	896,215	365,120
USR B1020010136 Structural Steel, Lt Load, Columns	3.62	TON	3,015	444	16,524	0	19,983	7,065	27,047	11,019
B102003 ROOF DECKS AND SLABS	**1.00**	**EA**	**17,201**	**585**	**37,644**	**0**	**55,431**	**19,597**	**75,028**	**30,567**
USR B1020030306 1-1/2" Galv. Metal Roof Deck, Open Type, F.P.	10,819.00	SF	17,201	585	37,644	0	55,431	19,597	75,028	30,567
B20 EXTERIOR ENCLOSURE	**1.00**	**EA**	**1,271,835**	**29,769**	**2,017,792**	**0**	**3,319,397**	**1,173,573**	**4,492,970**	**1,830,445**
B2010 EXTERIOR WALLS	**1.00**	**EA**	**1,019,966**	**29,596**	**1,026,477**	**0**	**2,076,040**	**733,984**	**2,810,024**	**1,144,810**
B201001 EXTERIOR CLOSURE	**1.00**	**EA**	**879,577**	**29,596**	**719,813**	**0**	**1,628,987**	**575,928**	**2,204,915**	**898,287**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR B2010010106 304.8 mm (12") CIP Concrete Wall W/Exposed Aggregate Finish	32,922.00	SF	838,003	29,596	692,027	0	1,559,626	551,406	2,111,032	860,039
USR B2010010142 152.4 mm(6") Mtl. Stud Non-Load Bearing	32,922.00	SF	41,573	0	27,787	0	69,360	24,522	93,883	38,248
B201002 EXTERIOR WALL BACKUP CONSTRUCTION	**1.00**	**EA**	**64,387**	**0**	**34,592**	**0**	**98,979**	**34,994**	**133,973**	**54,581**
USR B2010020310 5/8" Gypsum Board/Installed/Taped & Finished	32,922.00	SF	40,496	0	22,683	0	63,179	22,337	85,517	34,840
USR B2010020311 Paint to Gypsum Board Walls Using Roller	32,922.00	SF	23,891	0	11,909	0	35,799	12,657	48,456	19,741
B201003 INSULATION & VAPOR RETARDER	**1.00**	**EA**	**25,035**	**0**	**29,148**	**0**	**54,183**	**19,157**	**73,340**	**29,879**
USR B2010030212 152.4 mm(6") Batt Insulation W/Vapor Barrier	32,922.00	SF	25,035	0	29,148	0	54,183	19,157	73,340	29,879
B201005 EXTERIOR LOUVERS & SCREENS	**1.00**	**EA**	**16,808**	**0**	**30,607**	**0**	**47,415**	**16,764**	**64,178**	**26,146**
USR B2010050501 Fixed Blade Exterior Louver With Baked Enamel Finish	725.27	SF	16,808	0	30,607	0	47,415	16,764	64,178	26,146
B201006 BALCONY WALLS & HANDRAILS	**1.00**	**EA**	**34,160**	**0**	**212,317**	**0**	**246,477**	**87,142**	**333,619**	**135,917**
USR B2010060704 Ornamental Handrail	474.08	LF	34,160	0	212,317	0	246,477	87,142	333,619	135,917
B2020 EXTERIOR WINDOWS	**1.00**	**EA**	**231,671**	**0**	**894,067**	**0**	**1,125,739**	**398,005**	**1,523,744**	**620,776**
B202003 CURTAIN WALLS	**1.00**	**EA**	**231,671**	**0**	**894,067**	**0**	**1,125,739**	**398,005**	**1,523,744**	**620,776**
USR B2020030302 Clrd Aluminum Curtain Wall - 6.35 mm(1/4") Grey/Bronze	8,674.00	SF	231,671	0	894,067	0	1,125,739	398,005	1,523,744	620,776
B2030 EXTERIOR DOORS	**1.00**	**EA**	**20,198**	**173**	**97,248**	**0**	**117,618**	**41,584**	**159,202**	**64,859**
B203001 SOLID DOORS	**1.00**	**EA**	**3,195**	**1**	**15,296**	**0**	**18,493**	**6,538**	**25,031**	**10,198**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR B2030010201 910 mm X 2130 mm(3'0" X 7'0") Hollow Metal Door W/Frame W/O Panic Hrdw	1.00	EA	338	0	1,620	0	1,958	692	2,650	1,080
USR B2030010203 1020 mm X 2180 mm(3'4" X 7'2") Hollow Metal Door W/Frame	1.00	EA	959	1	3,650	0	4,610	1,630	6,239	2,542
USR B2030010204 1830 mm X 2130 mm(6'0" X 7'0") Pair Hollow Metal Doors W/Frame and Panic Handles	1.00	EA	1,192	0	6,036	0	7,228	2,556	9,784	3,986
USR B2030010205 2440 mm X 2130 mm(8'0" X 7'0") Pair Hollow Metal Doors W/Frame	1.00	EA	706	0	3,991	0	4,697	1,661	6,358	2,590
B203002 GLAZED DOORS	**1.00**	**EA**	**7,540**	**0**	**27,293**	**0**	**34,834**	**12,315**	**47,149**	**19,209**
USR B2030020101 910 mm X 2130 mm(3'0" X 7'0") Aluminum And Glass Door	1.00	EA	1,137	0	1,873	0	3,011	1,064	4,075	1,660
USR B2030020104 1830 mm X 2130 mm(6'0" X 7'0") Pair Aluminum And Glass Doors With Transom	1.00	EA	1,639	0	3,501	0	5,140	1,817	6,958	2,835
USR B2030020107 Auto Swinging Doors 1830 mm X 2130 mm(6'0" X 7'0")	1.00	EA	4,764	0	21,919	0	26,683	9,434	36,116	14,714
B203003 REVOLVING DOORS	**1.00**	**EA**	**5,764**	**0**	**45,991**	**0**	**51,755**	**18,298**	**70,053**	**28,540**
USR B2030030301 Revolving Door Including Frame & Trim	1.00	EA	5,764	0	45,991	0	51,755	18,298	70,053	28,540
B203004 OVERHEAD AND ROLL-UP DOORS	**1.00**	**EA**	**3,698**	**172**	**8,667**	**0**	**12,537**	**4,432**	**16,969**	**6,913**
USR B2030040102 3660 mm X 3660 mm(12'0" X 12'0") Heavy Duty Steel Overhead Door	1.00	EA	3,698	172	8,667	0	12,537	4,432	16,969	6,913
B30 ROOFING	**1.00**	**EA**	**52,254**	**0**	**83,604**	**0**	**135,858**	**48,033**	**183,890**	**74,917**
B3010 ROOF COVERINGS	**1.00**	**EA**	**52,254**	**0**	**83,604**	**0**	**135,858**	**48,033**	**183,890**	**74,917**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
B301002 LOW SLOPE ROOF SYSTEMS	**1.00**	**EA**	**38,985**	**0**	**66,157**	**0**	**105,142**	**37,173**	**142,315**	**57,979**
USR B3010020108 Standing Seam Metal Roof	10,819.00	SF	38,985	0	66,157	0	105,142	37,173	142,315	57,979
B301003 ROOF INSULATION & FILL	**1.00**	**EA**	**4,185**	**0**	**11,927**	**0**	**16,112**	**5,696**	**21,808**	**8,885**
USR B3010030302 Rigid Insulation 1-1/2" Thick	10,819.00	SF	4,185	0	11,927	0	16,112	5,696	21,808	8,885
B301004 FLASHINGS & TRIM	**1.00**	**EA**	**5,876**	**0**	**3,152**	**0**	**9,028**	**3,192**	**12,220**	**4,979**
USR B3010040408 Aluminum Flashing	1,355.51	SF	5,876	0	3,152	0	9,028	3,192	12,220	4,979
B301005 GUTTERS & DOWNSPOUTS	**1.00**	**EA**	**3,207**	**0**	**2,369**	**0**	**5,576**	**1,971**	**7,547**	**3,075**
USR B3010050601 5" Box Gutters With Downspouts	376.10	LF	3,207	0	2,369	0	5,576	1,971	7,547	3,075
C INTERIORS	**1.00**	**EA**	**555,614**	**2,931**	**952,171**	**3,150**	**1,513,866**	**535,227**	**2,049,093**	**834,805**
C10 INTERIOR CONSTRUCTION	**1.00**	**EA**	**150,961**	**538**	**496,861**	**0**	**648,360**	**229,228**	**877,587**	**357,531**
C1010 PARTITIONS	**1.00**	**EA**	**74,387**	**24**	**77,868**	**0**	**152,280**	**53,838**	**206,118**	**83,973**
C101001 FIXED PARTITIONS	**1.00**	**EA**	**64,370**	**24**	**42,159**	**0**	**106,554**	**37,672**	**144,226**	**58,758**
USR C1010010101 Mtl Stud Partition, 3-5/8"	656.18	SF	811	0	418	0	1,230	435	1,664	678
USR C1010010101 Mtl Stud Partition, 3-5/8"	599.74	SF	742	0	382	0	1,124	397	1,521	620
USR C1010010101 Mtl Stud Partition, 3-5/8"	935.60	SF	1,157	0	596	0	1,753	620	2,373	967
USR C1010010101 Mtl Stud Partition, 3-5/8"	1,580.62	SF	1,954	0	1,007	0	2,962	1,047	4,009	1,633
USR C1010010101 Mtl Stud Partition, 3-5/8"	208.52	SF	258	0	133	0	391	138	529	215

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1010010101 Mtl Stud Partition, 3-5/8"	407.98	SF	504	0	260	0	764	270	1,035	422
USR C1010010101 Mtl Stud Partition, 3-5/8"	664.40	SF	822	0	423	0	1,245	440	1,685	687
USR C1010010101 Mtl Stud Partition, 3-5/8"	149.53	SF	185	0	95	0	280	99	379	155
USR C1010010101 Mtl Stud Partition, 3-5/8"	305.84	SF	378	0	195	0	573	203	776	316
USR C1010010101 Mtl Stud Partition, 3-5/8"	36.17	SF	45	0	23	0	68	24	92	37
USR C1010010101 Mtl Stud Partition, 3-5/8"	3,081.80	SF	3,811	0	1,964	0	5,775	2,042	7,816	3,184
USR C1010010101 Mtl Stud Partition, 3-5/8"	704.55	SF	871	0	449	0	1,320	467	1,787	728
USR C1010010101 Mtl Stud Partition, 3-5/8"	1,348.33	SF	1,667	0	859	0	2,526	893	3,420	1,393
USR C1010010101 Mtl Stud Partition, 3-5/8"	104.94	SF	130	0	67	0	197	70	266	108
USR C1010010101 Mtl Stud Partition, 3-5/8"	184.99	SF	229	0	118	0	347	123	469	191
USR C1010010101 Mtl Stud Partition, 3-5/8"	51.34	SF	63	0	33	0	96	34	130	53
USR C1010010101 Mtl Stud Partition, 3-5/8"	346.89	SF	429	0	221	0	650	230	880	358
USR C1010010101 Mtl Stud Partition, 3-5/8"	409.51	SF	506	0	261	0	767	271	1,039	423
USR C1010010101 Mtl Stud Partition, 3-5/8"	47.16	SF	58	0	30	0	88	31	120	49
USR C1010010101 Mtl Stud Partition, 3-5/8"	1,238.18	SF	1,531	0	789	0	2,320	820	3,140	1,279
USR C1010010101 Mtl Stud Partition, 3-5/8"	78.33	SF	97	0	50	0	147	52	199	81
USR C1010010101 Mtl Stud Partition, 3-5/8"	983.56	SF	1,216	0	627	0	1,843	652	2,495	1,016

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1010010102 Mtl Stud Partition, 3-5/8", Sound Rated	951.96	SF	1,798	0	1,459	0	3,257	1,152	4,409	1,796
USR C1010010102 Mtl Stud Partition, 3-5/8", Sound Rated	811.82	SF	1,533	0	1,245	0	2,778	982	3,760	1,532
USR C1010010105 Mtl Stud Partition, 4"	77.19	SF	96	0	55	0	151	53	204	83
USR C1010010105 Mtl Stud Partition, 4"	1,407.11	SF	1,758	0	994	0	2,752	973	3,725	1,518
USR C1010010105 Mtl Stud Partition, 4"	873.34	SF	1,091	0	617	0	1,708	604	2,312	942
USR C1010010106 Mtl Stud Partition, 4", Sound Rated	596.67	SF	1,135	0	956	0	2,091	739	2,830	1,153
USR C1010010106 Mtl Stud Partition, 4", Sound Rated	402.48	SF	765	0	645	0	1,410	499	1,909	778
USR C1010010106 Mtl Stud Partition, 4", Sound Rated	758.62	SF	1,443	0	1,215	0	2,658	940	3,598	1,466
USR C1010010106 Mtl Stud Partition, 4", Sound Rated	271.06	SF	515	0	434	0	950	336	1,285	524
USR C1010010106 Mtl Stud Partition, 4", Sound Rated	3,911.41	SF	7,438	0	6,266	0	13,704	4,845	18,549	7,557
USR C1010010106 Mtl Stud Partition, 4", Sound Rated	75.01	SF	143	0	120	0	263	93	356	145
USR C1010010108 Mtl Stud Partition, 6", Sound Rated	85.87	SF	164	0	149	0	314	111	425	173
USR C1010010108 Mtl Stud Partition, 6", Sound Rated	109.18	SF	209	0	190	0	399	141	540	220
USR C1010010108 Mtl Stud Partition, 6", Sound Rated	39.01	SF	75	0	68	0	143	50	193	79
USR C1010010108 Mtl Stud Partition, 6", Sound Rated	799.91	SF	1,532	0	1,392	0	2,923	1,034	3,957	1,612
USR C1010010108 Mtl Stud Partition, 6", Sound Rated	9.76	SF	19	0	17	0	36	13	48	20
USR C1010010108 Mtl Stud Partition, 6", Sound Rated	208.52	SF	399	0	363	0	762	269	1,032	420

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1010010108 Mtl Stud Partition, 6", Sound Rated	10.80	SF	21	0	19	0	39	14	53	22
USR C1010010113 Non-Load Brg Partition Of 8 X 8 X 16 Concrete	114.52	SF	1,142	0	644	0	1,786	632	2,418	985
USR C1010010118 8 X 8 X 16 Load Bearing Concrete Masonry Unit Wall	35.09	SF	659	1	359	0	1,018	360	1,378	561
USR C1010010118 8 X 8 X 16 Load Bearing Concrete Masonry Unit Wall	23.32	SF	438	0	238	0	677	239	916	373
USR C1010010118 8 X 8 X 16 Load Bearing Concrete Masonry Unit Wall	1,145.88	SF	21,512	22	11,711	0	33,245	11,754	44,999	18,333
USR C1010010118 8 X 8 X 16 Load Bearing Concrete Masonry Unit Wall	44.91	SF	843	1	459	0	1,303	461	1,764	718
USR C1010010118 8 X 8 X 16 Load Bearing Concrete Masonry Unit Wall	47.28	SF	888	1	483	0	1,372	485	1,857	756
USR C1010010129 4" Polyurethane Panels W/.040" Aluminum Skin Each Side	187.82	SF	1,290	0	3,060	0	4,350	1,538	5,888	2,399
C101003 RETRACTABLE PARTITIONS	**1.00**	**EA**	**4,265**	**0**	**20,657**	**0**	**24,922**	**8,811**	**33,733**	**13,743**
USR C1010030301 Accordion Type Retractable Partition	27.46	SF	435	0	2,105	0	2,539	898	3,437	1,400
USR C1010030301 Accordion Type Retractable Partition	242.03	SF	3,831	0	18,552	0	22,382	7,913	30,296	12,343
C101005 INTERIOR WINDOWS	**1.00**	**EA**	**5,752**	**0**	**15,052**	**0**	**20,804**	**7,355**	**28,159**	**11,472**
USR C1010050502 Fixed Type Window With Aluminum Frm - 1/4" Clear Glass	0.90	SF	16	0	60	0	75	27	102	42
USR C1010050505 Lead Lined X-Ray Window	1.55	SF	43	0	280	0	323	114	437	178

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1010050505 Lead Lined X-Ray Window	1.58	SF	44	0	285	0	329	116	445	181
USR C1010050510 Fixed Type Window With Steel Frm - 1/4" Wired Glass	4.58	SF	89	0	454	0	543	192	735	299
USR C1010050510 Fixed Type Window With Steel Frm - 1/4" Wired Glass	5.80	SF	113	0	574	0	687	243	930	379
USR C1010050510 Fixed Type Window With Steel Frm - 1/4" Wired Glass	2.10	SF	41	0	208	0	249	88	337	137
USR C1010050510 Fixed Type Window With Steel Frm - 1/4" Wired Glass	0.57	SF	11	0	56	0	68	24	91	37
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	9.45	SF	266	0	649	0	915	324	1,239	505
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	2.51	SF	71	0	173	0	243	86	329	134
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	13.47	SF	379	0	926	0	1,304	461	1,765	719
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	43.22	SF	1,215	0	2,970	0	4,185	1,480	5,665	2,308
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	3.26	SF	92	0	224	0	316	112	427	174
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	8.65	SF	243	0	594	0	838	296	1,134	462
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	44.39	SF	1,247	0	3,051	0	4,298	1,520	5,818	2,370

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	19.94	SF	560	0	1,370	0	1,931	683	2,613	1,065
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	15.12	SF	425	0	1,039	0	1,464	518	1,982	807
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	2.26	SF	64	0	155	0	219	77	296	121
USR C1010050511 Fixed Type Window With Steel Frm - 3/8" Clear Glass	28.33	SF	796	0	1,947	0	2,743	970	3,713	1,513
USR C1010050513 Temp. Glass Door Side Light (1/4")	3.23	SF	39	0	36	0	75	26	101	41
C1020 INTERIOR DOORS	**1.00**	**EA**	**43,180**	**513**	**193,988**	**0**	**237,681**	**84,032**	**321,714**	**131,067**
C102001 STANDARD INTERIOR DOORS	**1.00**	**EA**	**30,390**	**0**	**128,198**	**0**	**158,588**	**56,069**	**214,656**	**87,451**
USR C1020010101 3'0" X 7'0" Hollow Metal Door	1.00	EA	222	0	1,588	0	1,810	640	2,450	998
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251
USR C1020010104 3'0" X 7'0" Hollow Metal Door W/Closure	1.00	EA	397	0	1,872	0	2,268	802	3,070	1,251
USR C1020010116 3'0" X 7'0" S.C. Wood Door W/H.M. Frame W/Passage Set	2.00	EA	500	0	1,504	0	2,004	709	2,713	1,105
USR C1020010116 3'0" X 7'0" S.C. Wood Door W/H.M. Frame W/Passage Set	2.00	EA	500	0	1,504	0	2,004	709	2,713	1,105
USR C1020010116 3'0" X 7'0" S.C. Wood Door W/H.M. Frame W/Passage Set	1.00	EA	250	0	752	0	1,002	354	1,356	553
USR C1020010116 3'0" X 7'0" S.C. Wood Door W/H.M. Frame W/Passage Set	2.00	EA	500	0	1,504	0	2,004	709	2,713	1,105
USR C1020010116 3'0" X 7'0" S.C. Wood Door W/H.M. Frame W/Passage Set	1.00	EA	250	0	752	0	1,002	354	1,356	553
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	3.00	EA	779	0	3,242	0	4,022	1,422	5,444	2,218
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	2.00	EA	520	0	2,162	0	2,681	948	3,629	1,479
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	2.00	EA	520	0	2,162	0	2,681	948	3,629	1,479
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	3.00	EA	779	0	3,242	0	4,022	1,422	5,444	2,218
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	6.00	EA	1,559	0	6,485	0	8,044	2,844	10,888	4,436
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	3.00	EA	779	0	3,242	0	4,022	1,422	5,444	2,218
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	2.00	EA	520	0	2,162	0	2,681	948	3,629	1,479

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	4.00	EA	1,039	0	4,323	0	5,362	1,896	7,258	2,957
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	260	0	1,081	0	1,341	474	1,815	739
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	260	0	1,081	0	1,341	474	1,815	739
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	260	0	1,081	0	1,341	474	1,815	739
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	260	0	1,081	0	1,341	474	1,815	739
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	10.00	EA	2,598	0	10,808	0	13,406	4,740	18,146	7,393
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	4.00	EA	1,039	0	4,323	0	5,362	1,896	7,258	2,957
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	3.00	EA	779	0	3,242	0	4,022	1,422	5,444	2,218
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	260	0	1,081	0	1,341	474	1,815	739
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	260	0	1,081	0	1,341	474	1,815	739
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	260	0	1,081	0	1,341	474	1,815	739
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	2.00	EA	520	0	2,162	0	2,681	948	3,629	1,479
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	2.00	EA	520	0	2,162	0	2,681	948	3,629	1,479
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	2.00	EA	520	0	2,162	0	2,681	948	3,629	1,479
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	3.00	EA	779	0	3,242	0	4,022	1,422	5,444	2,218
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	260	0	1,081	0	1,341	474	1,815	739
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	260	0	1,081	0	1,341	474	1,815	739

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1020010117 3'0" X 7'0" Wood Door, H.M. Frm	4.00	EA	1,039	0	4,323	0	5,362	1,896	7,258	2,957
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	3.00	EA	794	0	3,459	0	4,254	1,504	5,758	2,346
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	3.00	EA	794	0	3,459	0	4,254	1,504	5,758	2,346
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	2.00	EA	530	0	2,306	0	2,836	1,003	3,838	1,564
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010118 4'0" X 7'0" Wood Door, H.M. Frm	1.00	EA	265	0	1,153	0	1,418	501	1,919	782
USR C1020010119 6'0" X 7'0" Pair Wood Doors, H.M. Frm	1.00	EA	470	0	1,943	0	2,413	853	3,266	1,331

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1020010119 6'0" X 7'0" Pair Wood Doors, H.M. Frm	1.00	EA	470	0	1,943	0	2,413	853	3,266	1,331
USR C1020010119 6'0" X 7'0" Pair Wood Doors, H.M. Frm	1.00	EA	470	0	1,943	0	2,413	853	3,266	1,331
USR C1020010119 6'0" X 7'0" Pair Wood Doors, H.M. Frm	1.00	EA	470	0	1,943	0	2,413	853	3,266	1,331
C102002 GLAZED INTERIOR DOORS	**1.00**	**EA**	**3,808**	**0**	**8,956**	**0**	**12,764**	**4,513**	**17,276**	**7,038**
USR C1020020201 3'0" X 7'0" Aluminum And Glass Door	3.00	EA	2,186	0	4,491	0	6,677	2,361	9,038	3,682
USR C1020020204 6'0" X 7'0" Pair Aluminum And Glass Doors With Transom	1.00	EA	1,289	0	3,179	0	4,468	1,580	6,047	2,464
USR C1020020208 910 mm X 2130 mm(3'0" X 7'0") S.C. Wood Door W/ Frame & Glazing	1.00	EA	333	0	1,286	0	1,618	572	2,191	892
C102004 SLIDING & FOLDING DOORS	**1.00**	**EA**	**120**	**0**	**230**	**0**	**350**	**124**	**474**	**193**
USR C1020040418 Accordion Folding Door	1.64	SF	5	0	9	0	14	5	19	8
USR C1020040418 Accordion Folding Door	10.10	SF	30	0	57	0	87	31	118	48
USR C1020040418 Accordion Folding Door	2.32	SF	7	0	13	0	20	7	27	11
USR C1020040418 Accordion Folding Door	12.88	SF	38	0	73	0	111	39	151	61
USR C1020040418 Accordion Folding Door	4.61	SF	14	0	26	0	40	14	54	22
USR C1020040418 Accordion Folding Door	7.66	SF	23	0	44	0	66	23	90	37
USR C1020040418 Accordion Folding Door	1.27	SF	4	0	7	0	11	4	15	6
C102090 OTHER INTERIOR SPECIALTY DOORS	**1.00**	**EA**	**8,861**	**513**	**56,605**	**0**	**65,980**	**23,327**	**89,307**	**36,384**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1020909001 3'0" X 7'0" X 4" Hinged Cold Storage Door	1.00	EA	625	0	3,101	0	3,725	1,317	5,042	2,054
USR C1020909011 Class 5 Vault Door Ceg-08318	1.00	EA	1,364	257	12,273	0	13,894	4,912	18,806	7,661
USR C1020909011 Class 5 Vault Door Ceg-08318	1.00	EA	1,364	257	12,273	0	13,894	4,912	18,806	7,661
USR C1020909012 1220 mm X 1220 mm(4'0" X 4'0") Aluminum Roll Up Grille, Manually Operated	1.00	EA	235	0	538	0	773	273	1,046	426
USR C1020909019 SS Roll-Up Shutter, 4'0" High X 4'0" Wide	1.00	EA	540	0	2,670	0	3,209	1,135	4,344	1,770
USR C1020909019 SS Roll-Up Shutter, 4'0" High X 4'0" Wide	1.00	EA	540	0	2,670	0	3,209	1,135	4,344	1,770
USR C1020909019 SS Roll-Up Shutter, 4'0" High X 4'0" Wide	1.00	EA	540	0	2,670	0	3,209	1,135	4,344	1,770
USR C1020909020 SS Roll-Up Shutter, 1220 mm X 1830 mm (4'0" High X 6'0" Wide)	1.00	EA	594	0	3,187	0	3,780	1,336	5,117	2,085
USR C1020909020 SS Roll-Up Shutter, 1220 mm X 1830 mm (4'0" High X 6'0" Wide)	1.00	EA	594	0	3,187	0	3,780	1,336	5,117	2,085
USR C1020909020 SS Roll-Up Shutter, 1220 mm X 1830 mm (4'0" High X 6'0" Wide)	1.00	EA	594	0	3,187	0	3,780	1,336	5,117	2,085
USR C1020909021 SS Roll-Up Shutter, 1220 mm X 2440 mm (4'0" High X 8'0" Wide)	1.00	EA	625	0	3,617	0	4,242	1,500	5,742	2,339
USR C1020909021 SS Roll-Up Shutter, 1220 mm X 2440 mm (4'0" High X 8'0" Wide)	1.00	EA	625	0	3,617	0	4,242	1,500	5,742	2,339
USR C1020909021 SS Roll-Up Shutter, 1220 mm X 2440 mm (4'0" High X 8'0" Wide)	1.00	EA	625	0	3,617	0	4,242	1,500	5,742	2,339
C1030 SPECIALTIES	**1.00**	**EA**	**33,394**	**0**	**225,005**	**0**	**258,399**	**91,357**	**349,756**	**142,491**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
C103001 COMPARTMENTS, CUBICLES & TOILET PARTITIONS	**1.00**	**EA**	**2,082**	**0**	**9,605**	**0**	**11,687**	**4,132**	**15,819**	**6,445**
USR C1030010101 Urinal Screens	1.00	EA	119	0	163	0	281	100	381	155
USR C1030010101 Urinal Screens	1.00	EA	119	0	163	0	281	100	381	155
USR C1030010101 Urinal Screens	1.00	EA	119	0	163	0	281	100	381	155
USR C1030010101 Urinal Screens	1.00	EA	119	0	163	0	281	100	381	155
USR C1030010103 Toilet Partitions - Porcelain Enameled Steel, Wall Hung	1.00	EA	170	0	1,292	0	1,461	517	1,978	806
USR C1030010103 Toilet Partitions - Porcelain Enameled Steel, Wall Hung	1.00	EA	170	0	1,292	0	1,461	517	1,978	806
USR C1030010103 Toilet Partitions - Porcelain Enameled Steel, Wall Hung	1.00	EA	170	0	1,292	0	1,461	517	1,978	806
USR C1030010103 Toilet Partitions - Porcelain Enameled Steel, Wall Hung	1.00	EA	170	0	1,292	0	1,461	517	1,978	806
USR C1030010103 Toilet Partitions - Porcelain Enameled Steel, Wall Hung	1.00	EA	170	0	1,292	0	1,461	517	1,978	806
USR C1030010104 Stainless Steel Urinal Screen	1.00	EA	148	0	999	0	1,147	406	1,553	633
USR C1030010107 Patient Cubicle Track (W/Curtain Hooks)	0.67	LF	3	0	7	0	10	4	14	6
USR C1030010107 Patient Cubicle Track (W/Curtain Hooks)	12.40	LF	55	0	133	0	188	66	254	104
USR C1030010107 Patient Cubicle Track (W/Curtain Hooks)	17.69	LF	78	0	190	0	268	95	363	148
USR C1030010107 Patient Cubicle Track (W/Curtain Hooks)	58.26	LF	256	0	627	0	883	312	1,196	487
USR C1030010107 Patient Cubicle Track (W/Curtain Hooks)	29.61	LF	130	0	319	0	449	159	608	248

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030010107 Patient Cubicle Track (W/Curtain Hooks)	20.32	LF	89	0	219	0	308	109	417	170
C103002 TOILET & BATH ACCESSORIES	**1.00**	**EA**	**6,908**	**0**	**49,418**	**0**	**56,326**	**19,914**	**76,240**	**31,060**
USR C1030020201 Toilet Paper Holder	1.00	EA	20	0	33	0	52	19	71	29
USR C1030020201 Toilet Paper Holder	1.00	EA	20	0	33	0	52	19	71	29
USR C1030020201 Toilet Paper Holder	1.00	EA	20	0	33	0	52	19	71	29
USR C1030020201 Toilet Paper Holder	1.00	EA	20	0	33	0	52	19	71	29
USR C1030020201 Toilet Paper Holder	1.00	EA	20	0	33	0	52	19	71	29
USR C1030020203 Paper Towel Dispenser And Waste Receptacle	1.00	EA	59	0	534	0	593	210	803	327
USR C1030020203 Paper Towel Dispenser And Waste Receptacle	1.00	EA	59	0	534	0	593	210	803	327
USR C1030020203 Paper Towel Dispenser And Waste Receptacle	1.00	EA	59	0	534	0	593	210	803	327
USR C1030020203 Paper Towel Dispenser And Waste Receptacle	1.00	EA	59	0	534	0	593	210	803	327
USR C1030020205 Double Clothes Hook	3.00	EA	32	0	116	0	148	52	200	82
USR C1030020205 Double Clothes Hook	2.00	EA	21	0	78	0	99	35	134	54
USR C1030020205 Double Clothes Hook	1.00	EA	11	0	39	0	49	17	67	27
USR C1030020205 Double Clothes Hook	1.00	EA	11	0	39	0	49	17	67	27
USR C1030020205 Double Clothes Hook	3.00	EA	32	0	116	0	148	52	200	82
USR C1030020205 Double Clothes Hook	2.00	EA	21	0	78	0	99	35	134	54

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030020205 Double Clothes Hook	4.00	EA	42	0	155	0	197	70	267	109
USR C1030020205 Double Clothes Hook	2.00	EA	21	0	78	0	99	35	134	54
USR C1030020205 Double Clothes Hook	7.00	EA	74	0	271	0	345	122	468	191
USR C1030020205 Double Clothes Hook	1.00	EA	11	0	39	0	49	17	67	27
USR C1030020205 Double Clothes Hook	8.00	EA	85	0	310	0	395	140	534	218
USR C1030020205 Double Clothes Hook	1.00	EA	11	0	39	0	49	17	67	27
USR C1030020205 Double Clothes Hook	1.00	EA	11	0	39	0	49	17	67	27
USR C1030020206 Grab Bars	1.00	EA	30	0	64	0	93	33	126	52
USR C1030020206 Grab Bars	1.00	EA	30	0	64	0	93	33	126	52
USR C1030020206 Grab Bars	1.00	EA	30	0	64	0	93	33	126	52
USR C1030020206 Grab Bars	1.00	EA	30	0	64	0	93	33	126	52
USR C1030020207 Bath Room Mirrors	1.00	EA	30	0	341	0	371	131	502	204
USR C1030020207 Bath Room Mirrors	1.00	EA	30	0	341	0	371	131	502	204
USR C1030020207 Bath Room Mirrors	1.00	EA	30	0	341	0	371	131	502	204
USR C1030020207 Bath Room Mirrors	1.00	EA	30	0	341	0	371	131	502	204
USR C1030020207 Bath Room Mirrors	1.00	EA	30	0	341	0	371	131	502	204
USR C1030020209 Sanitary Napkin And Tampon Receptacle	1.00	EA	62	0	59	0	122	43	165	67
USR C1030020209 Sanitary Napkin And Tampon Receptacle	1.00	EA	62	0	59	0	122	43	165	67
USR C1030020209 Sanitary Napkin And Tampon Receptacle	1.00	EA	62	0	59	0	122	43	165	67

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030020209 Sanitary Napkin And Tampon Receptacle	1.00	EA	62	0	59	0	122	43	165	67
USR C1030020210 Soap Dispenser	1.00	EA	30	0	86	0	116	41	157	64
USR C1030020210 Soap Dispenser	1.00	EA	30	0	86	0	116	41	157	64
USR C1030020210 Soap Dispenser	1.00	EA	30	0	86	0	116	41	157	64
USR C1030020210 Soap Dispenser	1.00	EA	30	0	86	0	116	41	157	64
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	2.00	EA	629	0	4,895	0	5,525	1,953	7,478	3,046
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020212 Toilet Accessories For Single Toilet	1.00	EA	315	0	2,448	0	2,762	977	3,739	1,523
USR C1030020214 Towel Bar (24")	1.00	EA	28	0	114	0	142	50	192	78
USR C1030020215 Paper Towel Dispenser (Recessed)	3.00	EA	178	0	1,457	0	1,635	578	2,213	902
C103003 MARKER BOARDS & TACK BOARDS	**1.00**	**EA**	**745**	**0**	**3,495**	**0**	**4,240**	**1,499**	**5,739**	**2,338**
USR C1030030301 Porcelain Enamel Chalkboard	5.81	SF	31	0	217	0	247	87	335	136
USR C1030030302 Electrically Operated Glass Bead Projection Screen	25.16	SF	199	0	961	0	1,160	410	1,570	640
USR C1030030302 Electrically Operated Glass Bead Projection Screen	31.99	SF	253	0	1,222	0	1,475	521	1,996	813
USR C1030030302 Electrically Operated Glass Bead Projection Screen	11.43	SF	90	0	436	0	527	186	713	291
USR C1030030302 Electrically Operated Glass Bead Projection Screen	5.81	SF	46	0	222	0	268	95	363	148
USR C1030030302 Electrically Operated Glass Bead Projection Screen	3.16	SF	25	0	121	0	146	52	197	80
USR C1030030303 Bulletin Board	7.16	SF	35	0	111	0	146	52	198	81
USR C1030030303 Bulletin Board	9.11	SF	45	0	141	0	186	66	252	103
USR C1030030303 Bulletin Board	3.25	SF	16	0	50	0	66	23	90	37
USR C1030030303 Bulletin Board	0.90	SF	4	0	14	0	18	7	25	10

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
C103004 IDENTIFYING DEVICES	**1.00**	**EA**	**2,764**	**0**	**9,811**	**0**	**12,575**	**4,446**	**17,021**	**6,934**
USR C1030040401 Door Sign, 4" X 8"	3.00	EA	57	0	225	0	281	100	381	155
USR C1030040401 Door Sign, 4" X 8"	3.00	EA	57	0	225	0	281	100	381	155
USR C1030040401 Door Sign, 4" X 8"	4.00	EA	76	0	300	0	375	133	508	207
USR C1030040401 Door Sign, 4" X 8"	6.00	EA	113	0	450	0	563	199	762	310
USR C1030040401 Door Sign, 4" X 8"	4.00	EA	76	0	300	0	375	133	508	207
USR C1030040401 Door Sign, 4" X 8"	1.00	EA	19	0	75	0	94	33	127	52
USR C1030040401 Door Sign, 4" X 8"	2.00	EA	38	0	150	0	188	66	254	103
USR C1030040401 Door Sign, 4" X 8"	13.00	EA	246	0	974	0	1,220	431	1,651	673
USR C1030040401 Door Sign, 4" X 8"	5.00	EA	94	0	375	0	469	166	635	259
USR C1030040401 Door Sign, 4" X 8"	6.00	EA	113	0	450	0	563	199	762	310
USR C1030040401 Door Sign, 4" X 8"	1.00	EA	19	0	75	0	94	33	127	52
USR C1030040401 Door Sign, 4" X 8"	1.00	EA	19	0	75	0	94	33	127	52
USR C1030040401 Door Sign, 4" X 8"	2.00	EA	38	0	150	0	188	66	254	103
USR C1030040401 Door Sign, 4" X 8"	2.00	EA	38	0	150	0	188	66	254	103
USR C1030040401 Door Sign, 4" X 8"	5.00	EA	94	0	375	0	469	166	635	259
USR C1030040401 Door Sign, 4" X 8"	1.00	EA	19	0	75	0	94	33	127	52

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030040401 Door Sign, 4" X 8"	5.00	EA	94	0	375	0	469	166	635	259
USR C1030040402 Door Sign, 6" X 6"	3.00	EA	57	0	251	0	307	109	416	169
USR C1030040402 Door Sign, 6" X 6"	1.00	EA	19	0	84	0	102	36	139	56
USR C1030040402 Door Sign, 6" X 6"	3.00	EA	57	0	251	0	307	109	416	169
USR C1030040402 Door Sign, 6" X 6"	4.00	EA	76	0	334	0	410	145	555	226
USR C1030040402 Door Sign, 6" X 6"	2.00	EA	38	0	167	0	205	72	277	113
USR C1030040402 Door Sign, 6" X 6"	15.00	EA	283	0	1,253	0	1,537	543	2,080	847
USR C1030040402 Door Sign, 6" X 6"	3.00	EA	57	0	251	0	307	109	416	169
USR C1030040402 Door Sign, 6" X 6"	1.00	EA	19	0	84	0	102	36	139	56
USR C1030040405 Aluminum Framed, Glass Encased Directory	2.00	EA	950	0	2,343	0	3,292	1,164	4,456	1,815
C103005 LOCKERS	**1.00**	**EA**	**1,159**	**0**	**10,550**	**0**	**11,709**	**4,140**	**15,849**	**6,457**
USR C1030050502 18" X 15" X 72" Single Tier Lockers	1.00	EA	46	0	422	0	468	166	634	258
USR C1030050502 18" X 15" X 72" Single Tier Lockers	2.00	EA	93	0	844	0	937	331	1,268	517
USR C1030050502 18" X 15" X 72" Single Tier Lockers	1.00	EA	46	0	422	0	468	166	634	258
USR C1030050502 18" X 15" X 72" Single Tier Lockers	5.00	EA	232	0	2,110	0	2,342	828	3,170	1,291
USR C1030050502 18" X 15" X 72" Single Tier Lockers	2.00	EA	93	0	844	0	937	331	1,268	517
USR C1030050502 18" X 15" X 72" Single Tier Lockers	2.00	EA	93	0	844	0	937	331	1,268	517

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030050502 18" X 15" X 72" Single Tier Lockers	4.00	EA	185	0	1,688	0	1,873	662	2,536	1,033
USR C1030050502 18" X 15" X 72" Single Tier Lockers	1.00	EA	46	0	422	0	468	166	634	258
USR C1030050502 18" X 15" X 72" Single Tier Lockers	4.00	EA	185	0	1,688	0	1,873	662	2,536	1,033
USR C1030050502 18" X 15" X 72" Single Tier Lockers	1.00	EA	46	0	422	0	468	166	634	258
USR C1030050502 18" X 15" X 72" Single Tier Lockers	2.00	EA	93	0	844	0	937	331	1,268	517
C103007 FIRE EXTINGUISHER CABINETS	**1.00**	**EA**	**4,276**	**0**	**8,364**	**0**	**12,641**	**4,469**	**17,110**	**6,970**
USR C1030070701 Fire Extinguisher Cabinet, 8" X 12" X 27"	5.00	EA	1,018	0	1,860	0	2,878	1,018	3,896	1,587
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	2.00	EA	407	0	813	0	1,220	431	1,652	673

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
USR C1030070702 Fire Extinguisher Cabinet, 8" X 16" X 38"	1.00	EA	204	0	407	0	610	216	826	336
C103008 COUNTERS	**1.00**	**EA**	**787**	**0**	**1,182**	**0**	**1,969**	**696**	**2,666**	**1,086**
USR C1030080101 Plastic Laminate Countertop With Backsplash	25.07	LF	496	0	745	0	1,241	439	1,680	684
USR C1030080101 Plastic Laminate Countertop With Backsplash	14.72	LF	291	0	437	0	729	258	986	402
C103009 CABINETS	**1.00**	**EA**	**12,734**	**0**	**124,298**	**0**	**137,032**	**48,448**	**185,480**	**75,565**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030090201 Plastic Laminate Cabinets With Countertop And Drawers	4.41	LF	279	0	3,608	0	3,887	1,374	5,262	2,144
USR C1030090201 Plastic Laminate Cabinets With Countertop And Drawers	6.29	LF	398	0	5,146	0	5,545	1,960	7,505	3,058
USR C1030090201 Plastic Laminate Cabinets With Countertop And Drawers	5.49	LF	348	0	4,492	0	4,839	1,711	6,550	2,669
USR C1030090201 Plastic Laminate Cabinets With Countertop And Drawers	20.71	LF	1,311	0	16,945	0	18,256	6,454	24,710	10,067
USR C1030090201 Plastic Laminate Cabinets With Countertop And Drawers	14.49	LF	917	0	11,856	0	12,773	4,516	17,289	7,043
USR C1030090201 Plastic Laminate Cabinets With Countertop And Drawers	10.53	LF	667	0	8,616	0	9,282	3,282	12,564	5,119
USR C1030090201 Plastic Laminate Cabinets With Countertop And Drawers	0.70	LF	44	0	573	0	617	218	835	340
USR C1030090201 Plastic Laminate Cabinets With Countertop And Drawers	8.84	LF	560	0	7,233	0	7,792	2,755	10,547	4,297
USR C1030090202 Custom Bathrm Vanity - Prefinished W/Plastic Lam Top	12.01	LF	552	0	4,365	0	4,917	1,738	6,655	2,711
USR C1030090210 Metal Base And Wall Cabinets	1.57	LF	197	0	1,894	0	2,090	739	2,829	1,153
USR C1030090210 Metal Base And Wall Cabinets	2.00	LF	251	0	2,412	0	2,663	941	3,604	1,468
USR C1030090210 Metal Base And Wall Cabinets	0.71	LF	89	0	856	0	945	334	1,280	521
USR C1030090210 Metal Base And Wall Cabinets	0.20	LF	25	0	241	0	266	94	360	147
USR C1030090211 Wall Mounted Medical Cabinet W/Doors	8.42	LF	500	0	5,294	0	5,793	2,048	7,842	3,195

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030090211 Wall Mounted Medical Cabinet W/Doors	2.00	LF	119	0	1,257	0	1,376	487	1,863	759
USR C1030090211 Wall Mounted Medical Cabinet W/Doors	2.85	LF	169	0	1,792	0	1,961	693	2,654	1,081
USR C1030090211 Wall Mounted Medical Cabinet W/Doors	9.37	LF	556	0	5,891	0	6,447	2,279	8,727	3,555
USR C1030090211 Wall Mounted Medical Cabinet W/Doors	1.24	LF	74	0	780	0	853	302	1,155	470
USR C1030090211 Wall Mounted Medical Cabinet W/Doors	6.02	LF	357	0	3,785	0	4,142	1,464	5,607	2,284
USR C1030090211 Wall Mounted Medical Cabinet W/Doors	2.16	LF	128	0	1,358	0	1,486	525	2,012	820
USR C1030090211 Wall Mounted Medical Cabinet W/Doors	0.11	LF	7	0	69	0	76	27	102	42
USR C1030090211 Wall Mounted Medical Cabinet W/Doors	1.44	LF	85	0	905	0	991	350	1,341	546
USR C1030090212 Wall Mounted Base Cabinet W/Doors	13.70	LF	903	0	5,616	0	6,520	2,305	8,825	3,595
USR C1030090213 Wall Mounted Base Cabinets W/Drawers	5.58	LF	368	0	5,094	0	5,462	1,931	7,393	3,012
USR C1030090214 Wall Mounted Corner Cabinet	1.00	EA	66	0	620	0	686	243	929	378
USR C1030090215 Tall Storage Wall Mounted Cabinets	0.72	LF	57	0	626	0	683	242	925	377
USR C1030090228 Plastic Laminated Reception Desk With Counter	43.73	LF	3,708	0	22,974	0	26,682	9,433	36,115	14,713
C103090 OTHER INTERIOR SPECIALTIES	**1.00**	**EA**	**1,939**	**0**	**8,280**	**0**	**10,219**	**3,613**	**13,832**	**5,635**
USR C1030909001 Wall Corner Guard	2.00	EA	9	0	32	0	41	15	56	23
USR C1030909001 Wall Corner Guard	4.00	EA	19	0	64	0	82	29	111	45
USR C1030909001 Wall Corner Guard	3.00	EA	14	0	48	0	62	22	84	34

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030909001 Wall Corner Guard	1.00	EA	5	0	16	0	21	7	28	11
USR C1030909001 Wall Corner Guard	1.00	EA	5	0	16	0	21	7	28	11
USR C1030909001 Wall Corner Guard	8.00	EA	37	0	127	0	165	58	223	91
USR C1030909001 Wall Corner Guard	3.00	EA	14	0	48	0	62	22	84	34
USR C1030909001 Wall Corner Guard	6.00	EA	28	0	96	0	123	44	167	68
USR C1030909001 Wall Corner Guard	5.00	EA	23	0	80	0	103	36	139	57
USR C1030909001 Wall Corner Guard	1.00	EA	5	0	16	0	21	7	28	11
USR C1030909001 Wall Corner Guard	1.00	EA	5	0	16	0	21	7	28	11
USR C1030909001 Wall Corner Guard	1.00	EA	5	0	16	0	21	7	28	11
USR C1030909001 Wall Corner Guard	4.00	EA	19	0	64	0	82	29	111	45
USR C1030909001 Wall Corner Guard	1.00	EA	5	0	16	0	21	7	28	11
USR C1030909001 Wall Corner Guard	2.00	EA	9	0	32	0	41	15	56	23
USR C1030909002 Wall Handrail - Oak	9.42	LF	58	0	211	0	269	95	364	148
USR C1030909002 Wall Handrail - Oak	42.88	LF	265	0	960	0	1,225	433	1,658	676
USR C1030909002 Wall Handrail - Oak	25.98	LF	161	0	582	0	742	262	1,005	409
USR C1030909004 Wall Guard - Oak	26.02	LF	83	0	388	0	471	167	638	260
USR C1030909004 Wall Guard - Oak	1.33	LF	4	0	20	0	24	9	33	13

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C1030909004 Wall Guard - Oak	37.06	LF	119	0	552	0	671	237	908	370
USR C1030909004 Wall Guard - Oak	122.07	LF	392	0	1,819	0	2,210	781	2,992	1,219
USR C1030909004 Wall Guard - Oak	47.16	LF	151	0	703	0	854	302	1,156	471
USR C1030909004 Wall Guard - Oak	42.88	LF	138	0	639	0	776	275	1,051	428
USR C1030909004 Wall Guard - Oak	8.64	LF	28	0	129	0	156	55	212	86
USR C1030909004 Wall Guard - Oak	0.97	LF	3	0	14	0	18	6	24	10
USR C1030909004 Wall Guard - Oak	6.58	LF	21	0	98	0	119	42	161	66
USR C1030909004 Wall Guard - Oak	7.78	LF	25	0	116	0	141	50	191	78
USR C1030909004 Wall Guard - Oak	32.55	LF	104	0	485	0	589	208	798	325
USR C1030909004 Wall Guard - Oak	2.46	LF	8	0	37	0	45	16	60	25
USR C1030909004 Wall Guard - Oak	30.84	LF	99	0	460	0	558	197	756	308
USR C1030909005 Wall Guard - Vinyl	10.87	LF	81	0	384	0	464	164	629	256
C20 STAIRS	**1.00**	**EA**	**20,476**	**576**	**154,039**	**0**	**175,090**	**61,903**	**236,994**	**96,552**
C2010 STAIR CONSTRUCTION	**1.00**	**EA**	**20,476**	**576**	**154,039**	**0**	**175,090**	**61,903**	**236,994**	**96,552**
C201001 INTERIOR AND EXTERIOR STAIRS	**1.00**	**EA**	**20,476**	**576**	**154,039**	**0**	**175,090**	**61,903**	**236,994**	**96,552**
USR C2010010102 4'0" Wide, Metal Pan, Stair Construction	88.00	VLF	20,476	576	154,039	0	175,090	61,903	236,994	96,552
C30 INTERIOR FINISHES	**1.00**	**EA**	**384,178**	**1,817**	**301,271**	**3,150**	**690,416**	**244,096**	**934,512**	**380,722**
C3010 WALL FINISHES	**1.00**	**EA**	**273,531**	**1,751**	**125,729**	**0**	**401,010**	**141,777**	**542,787**	**221,133**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
C301002 PLASTER WALL FINISHES	**1.00**	**EA**	**173,030**	**1,751**	**33,335**	**0**	**208,115**	**73,579**	**281,695**	**114,763**
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	253.73	SF	9,165	93	1,766	0	11,023	3,897	14,921	6,079
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	361.80	SF	13,069	132	2,518	0	15,718	5,557	21,276	8,668
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	384.41	SF	13,885	140	2,675	0	16,701	5,905	22,605	9,209
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	187.35	SF	6,767	68	1,304	0	8,139	2,878	11,017	4,488
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	1,191.80	SF	43,049	436	8,294	0	51,778	18,306	70,084	28,552
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	246.84	SF	8,916	90	1,718	0	10,724	3,791	14,515	5,914
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	563.03	SF	20,337	206	3,918	0	24,461	8,648	33,109	13,489
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	6.04	SF	218	2	42	0	262	93	355	145
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	934.13	SF	33,742	341	6,500	0	40,583	14,348	54,932	22,379
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	48.77	SF	1,762	18	339	0	2,119	749	2,868	1,168
USR C3010020201 2 Coats Of Gypsum Plaster On 3/8" Gypsum Lath	612.41	SF	22,121	224	4,262	0	26,606	9,407	36,013	14,672
C301003 GYPSUM WALLBOARD FINISHES	**1.00**	**EA**	**48,907**	**0**	**35,217**	**0**	**84,125**	**29,742**	**113,867**	**46,390**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3010030301 5/8" Gypsum Board On 7/8" Furring Channel	129.79	SF	377	0	211	0	587	208	795	324
USR C3010030301 5/8" Gypsum Board On 7/8" Furring Channel	142.58	SF	414	0	231	0	645	228	873	356
USR C3010030301 5/8" Gypsum Board On 7/8" Furring Channel	50.08	SF	145	0	81	0	227	80	307	125
USR C3010030301 5/8" Gypsum Board On 7/8" Furring Channel	15.86	SF	46	0	26	0	72	25	97	40
USR C3010030301 5/8" Gypsum Board On 7/8" Furring Channel	728.07	SF	2,113	0	1,182	0	3,295	1,165	4,460	1,817
USR C3010030303 Two Layers Of 5/8" Fire Resistant Gypsum Board	546.63	SF	1,298	0	1,299	0	2,597	918	3,515	1,432
USR C3010030303 Two Layers Of 5/8" Fire Resistant Gypsum Board	64.38	SF	153	0	153	0	306	108	414	169
USR C3010030303 Two Layers Of 5/8" Fire Resistant Gypsum Board	24.97	SF	59	0	59	0	119	42	161	65
USR C3010030303 Two Layers Of 5/8" Fire Resistant Gypsum Board	9.55	SF	23	0	23	0	45	16	61	25
USR C3010030303 Two Layers Of 5/8" Fire Resistant Gypsum Board	91.29	SF	217	0	217	0	434	153	587	239
USR C3010030303 Two Layers Of 5/8" Fire Resistant Gypsum Board	104.38	SF	248	0	248	0	496	175	671	273
USR C3010030303 Two Layers Of 5/8" Fire Resistant Gypsum Board	5.13	SF	12	0	12	0	24	9	33	13
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	16.44	SF	20	0	11	0	32	11	43	17
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	1,199.22	SF	1,475	0	826	0	2,301	814	3,115	1,269

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	905.41	SF	1,114	0	624	0	1,738	614	2,352	958
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	190.22	SF	234	0	131	0	365	129	494	201
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	1,709.99	SF	2,103	0	1,178	0	3,282	1,160	4,442	1,810
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	2,387.05	SF	2,936	0	1,645	0	4,581	1,620	6,200	2,526
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	872.92	SF	1,074	0	601	0	1,675	592	2,267	924
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	1,878.83	SF	2,311	0	1,295	0	3,606	1,275	4,880	1,988
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	241.75	SF	297	0	167	0	464	164	628	256
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	1,003.36	SF	1,234	0	691	0	1,926	681	2,606	1,062
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	86.38	SF	106	0	60	0	166	59	224	91
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	225.81	SF	278	0	156	0	433	153	587	239
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	274.56	SF	338	0	189	0	527	186	713	291
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	80.08	SF	99	0	55	0	154	54	208	85
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	3,462.54	SF	4,259	0	2,386	0	6,645	2,349	8,994	3,664
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	420.09	SF	517	0	289	0	806	285	1,091	445
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	1,473.24	SF	1,812	0	1,015	0	2,827	1,000	3,827	1,559
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	605.64	SF	745	0	417	0	1,162	411	1,573	641
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	152.46	SF	188	0	105	0	293	103	396	161

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	1,111.76	SF	1,368	0	766	0	2,134	754	2,888	1,177
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	113.68	SF	140	0	78	0	218	77	295	120
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	523.84	SF	644	0	361	0	1,005	355	1,361	554
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	906.84	SF	1,115	0	625	0	1,740	615	2,356	960
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	179.45	SF	221	0	124	0	344	122	466	190
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	935.85	SF	1,151	0	645	0	1,796	635	2,431	990
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	124.68	SF	153	0	86	0	239	85	324	132
USR C3010030304 5/8" Gypsum Board/Installed/Taped & Finished	23.90	SF	29	0	16	0	46	16	62	25
USR C3010030310 1/2" Gypsum Board/Installed/Taped & Finished	1,469.36	SF	1,807	0	962	0	2,769	979	3,748	1,527
USR C3010030310 1/2" Gypsum Board/Installed/Taped & Finished	1,588.35	SF	1,954	0	1,040	0	2,993	1,058	4,052	1,651
USR C3010030310 1/2" Gypsum Board/Installed/Taped & Finished	66.38	SF	82	0	43	0	125	44	169	69
USR C3010030313 5/8" FR Gypsum Board/Installed/Taped & Finished	1,321.14	SF	1,568	0	888	0	2,456	868	3,324	1,354
USR C3010030313 5/8" FR Gypsum Board/Installed/Taped & Finished	1,679.83	SF	1,994	0	1,128	0	3,122	1,104	4,226	1,722
USR C3010030313 5/8" FR Gypsum Board/Installed/Taped & Finished	600.19	SF	712	0	403	0	1,116	394	1,510	615
USR C3010030313 5/8" FR Gypsum Board/Installed/Taped & Finished	3,515.50	SF	4,173	0	2,362	0	6,535	2,310	8,845	3,603

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3010030313 5/8" FR Gypsum Board/Installed/Taped & Finished	346.08	SF	411	0	232	0	643	227	871	355
USR C3010030313 5/8" FR Gypsum Board/Installed/Taped & Finished	166.10	SF	197	0	112	0	309	109	418	170
USR C3010030315 Lead Lined Gypsum Board	79.29	SF	823	0	1,625	0	2,448	865	3,313	1,350
USR C3010030315 Lead Lined Gypsum Board	397.11	SF	4,121	0	8,138	0	12,258	4,334	16,592	6,760
C301004 TILE & TERRAZZO WALL FINISHES	**1.00**	**EA**	**12,315**	**0**	**11,465**	**0**	**23,780**	**8,407**	**32,187**	**13,113**
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	11.32	SF	83	0	77	0	159	56	216	88
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	83.02	SF	605	0	563	0	1,169	413	1,582	644
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	34.55	SF	252	0	234	0	486	172	658	268
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	118.40	SF	863	0	804	0	1,667	589	2,256	919
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	104.48	SF	762	0	709	0	1,471	520	1,991	811
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	189.26	SF	1,380	0	1,284	0	2,664	942	3,606	1,469
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	99.85	SF	728	0	678	0	1,406	497	1,902	775
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	14.10	SF	103	0	96	0	198	70	269	109
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	25.77	SF	188	0	175	0	363	128	491	200
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	390.04	SF	2,843	0	2,647	0	5,490	1,941	7,431	3,028
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	37.38	SF	272	0	254	0	526	186	712	290

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	270.27	SF	1,970	0	1,834	0	3,804	1,345	5,149	2,098
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	4.97	SF	36	0	34	0	70	25	95	39
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	1.76	SF	13	0	12	0	25	9	34	14
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	11.89	SF	87	0	81	0	167	59	227	92
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	14.05	SF	102	0	95	0	198	70	268	109
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	263.14	SF	1,918	0	1,786	0	3,704	1,310	5,014	2,043
USR C3010040401 4-1/4" X 4-1/4" Ceramic Tile To Walls	15.07	SF	110	0	102	0	212	75	287	117
C301005 WALL COVERINGS	**1.00**	**EA**	**7,267**	**0**	**11,464**	**0**	**18,731**	**6,622**	**25,353**	**10,329**
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	159.90	SF	157	0	248	0	405	143	548	223
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	145.68	SF	143	0	226	0	369	130	499	203
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	303.75	SF	298	0	471	0	769	272	1,041	424
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	546.34	SF	537	0	847	0	1,384	489	1,873	763
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	386.20	SF	380	0	599	0	978	346	1,324	539
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	137.99	SF	136	0	214	0	350	124	473	193

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	51.00	SF	50	0	79	0	129	46	175	71
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	372.41	SF	366	0	577	0	943	333	1,277	520
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	5,240.07	SF	5,149	0	8,123	0	13,273	4,693	17,965	7,319
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	13.37	SF	13	0	21	0	34	12	46	19
USR C3010050602 Medium Weight Vinyl Wallcovering With Fabric Backing	38.19	SF	38	0	59	0	97	34	131	53
C301006 ACOUSTICAL PANELS ADHERED TO WALLS	**1.00**	**EA**	**5,342**	**0**	**20,550**	**0**	**25,893**	**9,154**	**35,047**	**14,278**
USR C3010060701 4' X 8' X 1" Fiberglass Sound Absorbing Panels	20.96	SF	25	0	98	0	123	44	167	68
USR C3010060705 Acoustical Wall Panels	1,388.72	SF	5,318	0	20,452	0	25,770	9,111	34,881	14,210
C301090 OTHER WALL FINISHES	**1.00**	**EA**	**26,670**	**0**	**13,697**	**0**	**40,367**	**14,272**	**54,638**	**22,260**
USR C3010900501 Paint To Gypsum Board Walls Using Roller	1,683.56	SF	1,222	0	609	0	1,831	647	2,478	1,010
USR C3010900501 Paint To Gypsum Board Walls Using Roller	1,328.05	SF	964	0	480	0	1,444	511	1,955	796
USR C3010900501 Paint To Gypsum Board Walls Using Roller	581.02	SF	422	0	210	0	632	223	855	348
USR C3010900501 Paint To Gypsum Board Walls Using Roller	1,511.36	SF	1,097	0	547	0	1,643	581	2,224	906
USR C3010900501 Paint To Gypsum Board Walls Using Roller	1,893.61	SF	1,374	0	685	0	2,059	728	2,787	1,135

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3010900501 Paint To Gypsum Board Walls Using Roller	2,282.56	SF	1,656	0	826	0	2,482	878	3,360	1,369
USR C3010900501 Paint To Gypsum Board Walls Using Roller	1,078.70	SF	783	0	390	0	1,173	415	1,588	647
USR C3010900501 Paint To Gypsum Board Walls Using Roller	2,304.92	SF	1,673	0	834	0	2,506	886	3,392	1,382
USR C3010900501 Paint To Gypsum Board Walls Using Roller	1,921.58	SF	1,394	0	695	0	2,090	739	2,828	1,152
USR C3010900501 Paint To Gypsum Board Walls Using Roller	1,003.36	SF	728	0	363	0	1,091	386	1,477	602
USR C3010900501 Paint To Gypsum Board Walls Using Roller	686.57	SF	498	0	248	0	747	264	1,011	412
USR C3010900501 Paint To Gypsum Board Walls Using Roller	181.17	SF	131	0	66	0	197	70	267	109
USR C3010900501 Paint To Gypsum Board Walls Using Roller	248.67	SF	180	0	90	0	270	96	366	149
USR C3010900501 Paint To Gypsum Board Walls Using Roller	130.16	SF	94	0	47	0	142	50	192	78
USR C3010900501 Paint To Gypsum Board Walls Using Roller	4,067.51	SF	2,952	0	1,471	0	4,423	1,564	5,987	2,439
USR C3010900501 Paint To Gypsum Board Walls Using Roller	1,026.65	SF	745	0	371	0	1,116	395	1,511	616
USR C3010900501 Paint To Gypsum Board Walls Using Roller	1,488.98	SF	1,081	0	539	0	1,619	572	2,192	893
USR C3010900501 Paint To Gypsum Board Walls Using Roller	300.94	SF	218	0	109	0	327	116	443	180
USR C3010900501 Paint To Gypsum Board Walls Using Roller	148.46	SF	108	0	54	0	161	57	219	89
USR C3010900501 Paint To Gypsum Board Walls Using Roller	6,943.65	SF	5,039	0	2,512	0	7,550	2,669	10,220	4,164
USR C3010900501 Paint To Gypsum Board Walls Using Roller	110.83	SF	80	0	40	0	121	43	163	66
USR C3010900501 Paint To Gypsum Board Walls Using Roller	504.59	SF	366	0	183	0	549	194	743	303

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3010900501 Paint To Gypsum Board Walls Using Roller	884.10	SF	642	0	320	0	961	340	1,301	530
USR C3010900501 Paint To Gypsum Board Walls Using Roller	591.89	SF	430	0	214	0	644	228	871	355
USR C3010900501 Paint To Gypsum Board Walls Using Roller	1,552.15	SF	1,126	0	561	0	1,688	597	2,285	931
USR C3010900501 Paint To Gypsum Board Walls Using Roller	92.29	SF	67	0	33	0	100	35	136	55
USR C3010900501 Paint To Gypsum Board Walls Using Roller	190.00	SF	138	0	69	0	207	73	280	114
USR C3010900502 Paint To Concrete Block Using Brushes, Two Coats	332.68	SF	387	0	189	0	576	204	780	318
USR C3010900502 Paint To Concrete Block Using Brushes, Two Coats	49.91	SF	58	0	28	0	86	31	117	48
USR C3010900502 Paint To Concrete Block Using Brushes, Two Coats	31.44	SF	37	0	18	0	54	19	74	30
USR C3010900502 Paint To Concrete Block Using Brushes, Two Coats	37.99	SF	44	0	22	0	66	23	89	36
USR C3010900506 Epoxy Paint To Drywall	41.88	SF	27	0	26	0	53	19	72	29
USR C3010900506 Epoxy Paint To Drywall	289.84	SF	190	0	180	0	370	131	501	204
USR C3010900506 Epoxy Paint To Drywall	59.77	SF	39	0	37	0	76	27	103	42
USR C3010900506 Epoxy Paint To Drywall	217.38	SF	143	0	135	0	277	98	375	153
USR C3010900506 Epoxy Paint To Drywall	30.54	SF	20	0	19	0	39	14	53	21
USR C3010900506 Epoxy Paint To Drywall	187.47	SF	123	0	116	0	239	85	324	132
USR C3010900506 Epoxy Paint To Drywall	196.80	SF	129	0	122	0	251	89	340	138

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3010900506 Epoxy Paint To Drywall	277.01	SF	182	0	172	0	353	125	478	195
USR C3010900506 Epoxy Paint To Drywall	5.06	SF	3	0	3	0	6	2	9	4
USR C3010900506 Epoxy Paint To Drywall	1.09	SF	1	0	1	0	1	0	2	1
USR C3010900506 Epoxy Paint To Drywall	7.36	SF	5	0	5	0	9	3	13	5
USR C3010900506 Epoxy Paint To Drywall	8.70	SF	6	0	5	0	11	4	15	6
USR C3010900506 Epoxy Paint To Drywall	54.70	SF	36	0	34	0	70	25	94	38
USR C3010900506 Epoxy Paint To Drywall	17.31	SF	11	0	11	0	22	8	30	12
USR C3010900804 Matt Finish Liquid Glazed Wall Coating	17.48	SF	20	0	10	0	30	11	41	17
C3020 FLOOR FINISHES	**1.00**	**EA**	**50,998**	**0**	**106,071**	**3,150**	**160,219**	**56,645**	**216,864**	**88,351**
C302001 TILE FLOOR FINISHES	**1.00**	**EA**	**23,315**	**0**	**22,823**	**0**	**46,138**	**16,312**	**62,450**	**25,442**
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	2.07	SF	25	0	23	0	47	17	64	26
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	13.95	SF	167	0	152	0	319	113	432	176
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	1.83	SF	22	0	20	0	42	15	57	23
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	7.73	SF	93	0	84	0	177	63	240	98
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	19.89	SF	238	0	217	0	455	161	616	251

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	26.71	SF	320	0	292	0	612	216	828	337
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	25.06	SF	300	0	274	0	574	203	777	316
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	3.05	SF	37	0	33	0	70	25	95	39
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	54.46	SF	652	0	595	0	1,247	441	1,688	688
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	65.53	SF	785	0	716	0	1,500	530	2,031	827
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	9.04	SF	108	0	99	0	207	73	280	114
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	27.15	SF	325	0	297	0	622	220	841	343
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	1.04	SF	12	0	11	0	24	8	32	13
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	1,024.63	SF	12,268	0	11,193	0	23,461	8,295	31,756	12,937
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	0.68	SF	8	0	7	0	16	6	21	9
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	4.62	SF	55	0	50	0	106	37	143	58
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	5.45	SF	65	0	60	0	125	44	169	69

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	73.20	SF	876	0	800	0	1,676	593	2,269	924
USR C3020010101 Thin Set Natural Clay Ceramic Tile Floor And Base	2.00	SF	24	0	22	0	46	16	62	25
USR C3020010102 6" X 6" X 1/2" Mud Set Quarry Tile And Base	427.58	SF	6,451	0	7,329	0	13,779	4,872	18,651	7,599
USR C3020010102 6" X 6" X 1/2" Mud Set Quarry Tile And Base	32.05	SF	484	0	549	0	1,033	365	1,398	570
C302004 RESILIENT FLOOR FINISHES	**1.00**	**EA**	**20,610**	**0**	**46,965**	**2,614**	**70,190**	**24,816**	**95,005**	**38,705**
USR C3020040402 Vinyl Tile 1/8" Travertine	322.43	SF	625	0	3,527	0	4,152	1,468	5,620	2,289
USR C3020040403 Vinyl Tile 1/8" Solid Color	244.33	SF	360	0	801	65	1,226	434	1,660	676
USR C3020040403 Vinyl Tile 1/8" Solid Color	358.60	SF	528	0	1,176	96	1,800	636	2,436	992
USR C3020040403 Vinyl Tile 1/8" Solid Color	64.46	SF	95	0	211	17	324	114	438	178
USR C3020040403 Vinyl Tile 1/8" Solid Color	168.86	SF	248	0	554	45	847	300	1,147	467
USR C3020040403 Vinyl Tile 1/8" Solid Color	511.35	SF	752	0	1,677	137	2,566	907	3,474	1,415
USR C3020040403 Vinyl Tile 1/8" Solid Color	724.18	SF	1,066	0	2,375	194	3,634	1,285	4,919	2,004
USR C3020040403 Vinyl Tile 1/8" Solid Color	378.98	SF	558	0	1,243	101	1,902	672	2,574	1,049
USR C3020040403 Vinyl Tile 1/8" Solid Color	250.25	SF	368	0	821	67	1,256	444	1,700	693
USR C3020040403 Vinyl Tile 1/8" Solid Color	162.61	SF	239	0	533	43	816	289	1,105	450

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3020040403 Vinyl Tile 1/8" Solid Color	170.04	SF	250	0	558	45	853	302	1,155	471
USR C3020040403 Vinyl Tile 1/8" Solid Color	1,684.37	SF	2,479	0	5,524	451	8,453	2,989	11,442	4,662
USR C3020040403 Vinyl Tile 1/8" Solid Color	538.74	SF	793	0	1,767	144	2,704	956	3,660	1,491
USR C3020040403 Vinyl Tile 1/8" Solid Color	205.89	SF	303	0	675	55	1,033	365	1,399	570
USR C3020040403 Vinyl Tile 1/8" Solid Color	32.80	SF	48	0	108	9	165	58	223	91
USR C3020040403 Vinyl Tile 1/8" Solid Color	3,453.49	SF	5,082	0	11,326	924	17,332	6,128	23,460	9,558
USR C3020040403 Vinyl Tile 1/8" Solid Color	7.46	SF	11	0	24	2	37	13	51	21
USR C3020040403 Vinyl Tile 1/8" Solid Color	50.38	SF	74	0	165	13	253	89	342	139
USR C3020040403 Vinyl Tile 1/8" Solid Color	59.47	SF	88	0	195	16	298	106	404	165
USR C3020040403 Vinyl Tile 1/8" Solid Color	25.28	SF	37	0	83	7	127	45	172	70
USR C3020040403 Vinyl Tile 1/8" Solid Color	651.65	SF	959	0	2,137	174	3,270	1,156	4,427	1,803
USR C3020040403 Vinyl Tile 1/8" Solid Color	30.18	SF	44	0	99	8	151	54	205	84
USR C3020040404 Sheet Vinyl Resilient Flooring	35.66	SF	131	0	267	0	398	141	538	219
USR C3020040404 Sheet Vinyl Resilient Flooring	8.00	SF	29	0	60	0	89	32	121	49
USR C3020040404 Sheet Vinyl Resilient Flooring	11.41	SF	42	0	85	0	127	45	172	70
USR C3020040404 Sheet Vinyl Resilient Flooring	236.37	SF	870	0	1,767	0	2,637	932	3,569	1,454
USR C3020040404 Sheet Vinyl Resilient Flooring	37.59	SF	138	0	281	0	419	148	568	231

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3020040404 Sheet Vinyl Resilient Flooring	621.12	SF	2,285	0	4,643	0	6,928	2,450	9,378	3,821
USR C3020040404 Sheet Vinyl Resilient Flooring	554.00	SF	2,038	0	4,142	0	6,180	2,185	8,364	3,408
USR C3020040404 Sheet Vinyl Resilient Flooring	18.83	SF	69	0	141	0	210	74	284	116
C302005 CARPETING	**1.00**	**EA**	**4,897**	**0**	**21,221**	**536**	**26,654**	**9,423**	**36,077**	**14,698**
USR C3020050501 Commercial Grade 28 Oz. Nylon Carpet	38.89	SY	472	0	2,127	0	2,599	919	3,518	1,433
USR C3020050501 Commercial Grade 28 Oz. Nylon Carpet	49.44	SY	601	0	2,704	0	3,304	1,168	4,473	1,822
USR C3020050501 Commercial Grade 28 Oz. Nylon Carpet	17.67	SY	215	0	966	0	1,181	418	1,599	651
USR C3020050501 Commercial Grade 28 Oz. Nylon Carpet	10.56	SY	128	0	578	0	706	250	955	389
USR C3020050501 Commercial Grade 28 Oz. Nylon Carpet	94.98	SY	1,154	0	5,194	0	6,348	2,244	8,592	3,501
USR C3020050501 Commercial Grade 28 Oz. Nylon Carpet	4.89	SY	59	0	267	0	327	116	442	180
USR C3020050502 Commercial Grade 35 Oz. Nylon	2.88	SY	28	0	117	7	152	54	206	84
USR C3020050502 Commercial Grade 35 Oz. Nylon	6.49	SY	64	0	263	15	342	121	463	189
USR C3020050502 Commercial Grade 35 Oz. Nylon	1.52	SY	15	0	62	4	80	28	108	44
USR C3020050502 Commercial Grade 35 Oz. Nylon	19.65	SY	193	0	798	46	1,036	366	1,402	571
USR C3020050502 Commercial Grade 35 Oz. Nylon	9.26	SY	91	0	376	21	488	173	661	269
USR C3020050502 Commercial Grade 35 Oz. Nylon	4.18	SY	41	0	170	10	220	78	298	122
USR C3020050502 Commercial Grade 35 Oz. Nylon	23.51	SY	231	0	954	54	1,239	438	1,678	683

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3020050502 Commercial Grade 35 Oz. Nylon	22.75	SY	223	0	923	53	1,199	424	1,623	661
USR C3020050502 Commercial Grade 35 Oz. Nylon	10.51	SY	103	0	427	24	554	196	750	306
USR C3020050502 Commercial Grade 35 Oz. Nylon	5.61	SY	55	0	228	13	296	105	400	163
USR C3020050502 Commercial Grade 35 Oz. Nylon	30.50	SY	299	0	1,238	71	1,608	569	2,176	887
USR C3020050502 Commercial Grade 35 Oz. Nylon	5.02	SY	49	0	204	12	265	94	358	146
USR C3020050502 Commercial Grade 35 Oz. Nylon	17.64	SY	173	0	716	41	930	329	1,259	513
USR C3020050502 Commercial Grade 35 Oz. Nylon	1.88	SY	18	0	76	4	99	35	134	55
USR C3020050502 Commercial Grade 35 Oz. Nylon	3.65	SY	36	0	148	8	192	68	260	106
USR C3020050502 Commercial Grade 35 Oz. Nylon	24.67	SY	242	0	1,001	57	1,301	460	1,760	717
USR C3020050502 Commercial Grade 35 Oz. Nylon	29.12	SY	286	0	1,182	67	1,535	543	2,078	847
USR C3020050502 Commercial Grade 35 Oz. Nylon	12.02	SY	118	0	488	28	634	224	858	349
USR C3020050502 Commercial Grade 35 Oz. Nylon	0.33	SY	3	0	13	1	17	6	24	10
C302011 RAISED ACCESS FLOORING	**1.00**	**EA**	**1,782**	**0**	**13,132**	**0**	**14,914**	**5,273**	**20,187**	**8,224**
USR C3020110702 Vinyl Covered Pedestal Access Flooring	416.11	SF	1,782	0	13,132	0	14,914	5,273	20,187	8,224
C302090 OTHER FLOORING & FLOOR FINISHES	**1.00**	**EA**	**394**	**0**	**1,929**	**0**	**2,323**	**821**	**3,145**	**1,281**
USR C3020909001 Concrete Floor Sealer	1,752.72	SF	223	0	383	0	607	214	821	334

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3020909010 Recessed Rubber Floor Mat	43.78	SF	171	0	1,546	0	1,717	607	2,324	947
C3030 CEILING FINISHES	**1.00**	**EA**	**59,613**	**66**	**69,468**	**0**	**129,147**	**45,660**	**174,806**	**71,216**
C303001 ACOUSTICAL CEILING TILES & PANELS	**1.00**	**EA**	**13,121**	**0**	**30,460**	**0**	**43,581**	**15,408**	**58,989**	**24,032**
USR C3030010401 12" X 12" X 5/8" Fiberglass Acoustical Ceiling Tiles	297.87	SF	458	0	1,258	0	1,715	606	2,322	946
USR C3030010401 12" X 12" X 5/8" Fiberglass Acoustical Ceiling Tiles	641.33	SF	986	0	2,707	0	3,693	1,306	4,999	2,037
USR C3030010401 12" X 12" X 5/8" Fiberglass Acoustical Ceiling Tiles	25.28	SF	39	0	107	0	146	51	197	80
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	417.17	SF	352	0	798	0	1,149	406	1,556	634
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	78.61	SF	66	0	150	0	217	77	293	119
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	705.63	SF	595	0	1,349	0	1,944	687	2,632	1,072
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	350.00	SF	295	0	669	0	964	341	1,305	532
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	594.87	SF	502	0	1,137	0	1,639	579	2,218	904
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	1,140.29	SF	962	0	2,180	0	3,142	1,111	4,253	1,732
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	540.07	SF	455	0	1,033	0	1,488	526	2,014	821

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	512.81	SF	432	0	980	0	1,413	500	1,912	779
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	445.00	SF	375	0	851	0	1,226	433	1,660	676
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	455.00	SF	384	0	870	0	1,254	443	1,697	691
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	159.00	SF	134	0	304	0	438	155	593	242
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	252.10	SF	213	0	482	0	695	246	940	383
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	267.68	SF	226	0	512	0	738	261	998	407
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	95.00	SF	80	0	182	0	262	93	354	144
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	1,959.46	SF	1,652	0	3,746	0	5,399	1,909	7,307	2,977
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	552.49	SF	466	0	1,056	0	1,522	538	2,060	839
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	744.95	SF	628	0	1,424	0	2,053	726	2,778	1,132
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	554.00	SF	467	0	1,059	0	1,526	540	2,066	842
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	110.57	SF	93	0	211	0	305	108	412	168

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	2,388.82	SF	2,014	0	4,567	0	6,582	2,327	8,909	3,629
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	40.12	SF	34	0	77	0	111	39	150	61
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	271.08	SF	229	0	518	0	747	264	1,011	412
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	320.01	SF	270	0	612	0	882	312	1,193	486
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	759.80	SF	641	0	1,453	0	2,093	740	2,834	1,154
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	43.01	SF	36	0	82	0	119	42	160	65
USR C3030010402 2' X 2' Or 2' X 4' Fiberglass Acoustical Ceiling Tiles	44.00	SF	37	0	84	0	121	43	164	67
C303002 GYPSUM WALLBOARD CEILING FINISHES	**1.00**	**EA**	**4,959**	**0**	**2,222**	**0**	**7,181**	**2,539**	**9,720**	**3,960**
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	10.13	SF	16	0	7	0	23	8	31	13
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	21.83	SF	34	0	15	0	49	17	66	27
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	1.39	SF	2	0	1	0	3	1	4	2
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	75.37	SF	117	0	52	0	169	60	229	93

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	31.13	SF	48	0	21	0	70	25	94	38
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	26.71	SF	41	0	18	0	60	21	81	33
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	137.93	SF	214	0	95	0	309	109	418	170
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	7.23	SF	11	0	5	0	16	6	22	9
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	39.32	SF	61	0	27	0	88	31	119	49
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	102.54	SF	159	0	71	0	230	81	311	127
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	40.51	SF	63	0	28	0	91	32	123	50
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	268.05	SF	416	0	185	0	601	212	813	331
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	8.72	SF	14	0	6	0	20	7	26	11
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	2,302.84	SF	3,573	0	1,587	0	5,160	1,824	6,984	2,845
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	0.88	SF	1	0	1	0	2	1	3	1
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	5.92	SF	9	0	4	0	13	5	18	7

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	6.99	SF	11	0	5	0	16	6	21	9
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	73.20	SF	114	0	50	0	164	58	222	90
USR C3030020301 5/8" Gypsum Wallboard Ceiling, 1 Layer, Fire Rated	10.99	SF	17	0	8	0	25	9	33	14
USR C3030020302 5/8" Gypsum Wallboard Ceiling, 3 Layers, Over 8 Ft.	21.19	SF	38	0	37	0	75	26	101	41
C303005 SUSPENSIONS SYSTEMS	**1.00**	**EA**	**32,149**	**0**	**30,523**	**0**	**62,672**	**22,158**	**84,829**	**34,560**
USR C3030050701 Concealed Spline Ceiling Suspension System, 304.8 mm(12") Module	641.35	SF	732	0	950	0	1,682	595	2,277	928
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	417.17	SF	381	0	711	0	1,092	386	1,478	602
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	78.61	SF	72	0	134	0	206	73	279	114
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	705.63	SF	644	0	1,203	0	1,848	653	2,501	1,019
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	350.00	SF	320	0	597	0	916	324	1,240	505
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	594.87	SF	543	0	1,014	0	1,558	551	2,108	859
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	1,140.29	SF	1,041	0	1,945	0	2,986	1,056	4,041	1,646
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	540.07	SF	493	0	921	0	1,414	500	1,914	780
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	512.81	SF	468	0	874	0	1,343	475	1,817	740
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	445.00	SF	406	0	759	0	1,165	412	1,577	643

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	455.00	SF	415	0	776	0	1,191	421	1,613	657
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	159.00	SF	145	0	271	0	416	147	564	230
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	252.10	SF	230	0	430	0	660	233	893	364
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	267.68	SF	244	0	456	0	701	248	949	386
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	1,959.46	SF	1,789	0	3,341	0	5,131	1,814	6,944	2,829
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	552.49	SF	504	0	942	0	1,447	511	1,958	798
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	744.95	SF	680	0	1,270	0	1,951	690	2,640	1,076
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	110.57	SF	101	0	189	0	290	102	392	160
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	2,278.68	SF	2,081	0	3,886	0	5,966	2,109	8,076	3,290
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	40.12	SF	37	0	68	0	105	37	142	58
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	271.08	SF	248	0	462	0	710	251	961	391
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	320.01	SF	292	0	546	0	838	296	1,134	462
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	759.80	SF	694	0	1,296	0	1,989	703	2,693	1,097
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	43.01	SF	39	0	73	0	113	40	152	62
USR C3030050702 T-Bar Ceiling Suspension System 2' X 2' Grid	44.00	SF	40	0	75	0	115	41	156	64
USR C3030050703 T-Bar Ceiling Suspension System 2' X 4' Grid	95.00	SF	70	0	126	0	196	69	266	108
USR C3030050703 T-Bar Ceiling Suspension System 2' X 4' Grid	554.00	SF	411	0	735	0	1,146	405	1,551	632

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3030050703 T-Bar Ceiling Suspension System 2' X 4' Grid	110.18	SF	82	0	146	0	228	81	308	126
USR C3030050704 Suspension System For Gypsum Board Ceiling	10.13	SF	60	0	20	0	80	28	109	44
USR C3030050704 Suspension System For Gypsum Board Ceiling	21.83	SF	130	0	43	0	173	61	234	95
USR C3030050704 Suspension System For Gypsum Board Ceiling	1.39	SF	8	0	3	0	11	4	15	6
USR C3030050704 Suspension System For Gypsum Board Ceiling	75.37	SF	447	0	149	0	597	211	807	329
USR C3030050704 Suspension System For Gypsum Board Ceiling	31.13	SF	185	0	62	0	246	87	333	136
USR C3030050704 Suspension System For Gypsum Board Ceiling	26.71	SF	158	0	53	0	211	75	286	117
USR C3030050704 Suspension System For Gypsum Board Ceiling	137.93	SF	818	0	273	0	1,092	386	1,478	602
USR C3030050704 Suspension System For Gypsum Board Ceiling	21.19	SF	126	0	42	0	168	59	227	92
USR C3030050704 Suspension System For Gypsum Board Ceiling	7.23	SF	43	0	14	0	57	20	77	32
USR C3030050704 Suspension System For Gypsum Board Ceiling	39.32	SF	233	0	78	0	311	110	421	172
USR C3030050704 Suspension System For Gypsum Board Ceiling	102.54	SF	608	0	203	0	812	287	1,098	448

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3030050704 Suspension System For Gypsum Board Ceiling	40.51	SF	240	0	80	0	321	113	434	177
USR C3030050704 Suspension System For Gypsum Board Ceiling	268.05	SF	1,590	0	531	0	2,121	750	2,871	1,170
USR C3030050704 Suspension System For Gypsum Board Ceiling	8.72	SF	52	0	17	0	69	24	93	38
USR C3030050704 Suspension System For Gypsum Board Ceiling	2,302.84	SF	13,664	0	4,562	0	18,226	6,444	24,669	10,050
USR C3030050704 Suspension System For Gypsum Board Ceiling	0.88	SF	5	0	2	0	7	2	9	4
USR C3030050704 Suspension System For Gypsum Board Ceiling	5.92	SF	35	0	12	0	47	17	63	26
USR C3030050704 Suspension System For Gypsum Board Ceiling	6.99	SF	41	0	14	0	55	20	75	31
USR C3030050704 Suspension System For Gypsum Board Ceiling	73.20	SF	434	0	145	0	579	205	784	319
USR C3030050704 Suspension System For Gypsum Board Ceiling	10.99	SF	65	0	22	0	87	31	118	48
C303090 OTHER CEILING & CEILING FINISHES	**1.00**	**EA**	**9,384**	**66**	**6,263**	**0**	**15,713**	**5,555**	**21,269**	**8,665**
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	10.13	SF	7	0	4	0	11	4	15	6
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	21.83	SF	16	0	8	0	24	8	32	13

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	1.39	SF	1	0	1	0	2	1	2	1
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	75.37	SF	55	0	27	0	82	29	111	45
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	31.13	SF	23	0	11	0	34	12	46	19
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	26.71	SF	19	0	10	0	29	10	39	16
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	137.93	SF	100	0	50	0	150	53	203	83
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	21.19	SF	15	0	8	0	23	8	31	13
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	7.23	SF	5	0	3	0	8	3	11	4
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	39.32	SF	29	0	14	0	43	15	58	24
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	102.54	SF	74	0	37	0	112	39	151	61
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	40.51	SF	29	0	15	0	44	16	60	24
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	268.05	SF	195	0	97	0	291	103	395	161
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	8.23	SF	6	0	3	0	9	3	12	5

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	2,302.84	SF	1,671	0	833	0	2,504	885	3,389	1,381
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	0.88	SF	1	0	0	0	1	0	1	1
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	5.92	SF	4	0	2	0	6	2	9	4
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	6.99	SF	5	0	3	0	8	3	10	4
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	73.20	SF	53	0	26	0	80	28	108	44
USR C3030900601 Painting To Drywall Or Plaster Using Rollers, 2 Coats	10.99	SF	8	0	4	0	12	4	16	7
USR C3030900603 Paint Exposed Steel Joists And Roof Deck	45.95	SF	104	0	59	0	164	58	221	90
USR C3030900603 Paint Exposed Steel Joists And Roof Deck	1,752.72	SF	3,975	0	2,264	0	6,239	2,206	8,445	3,440
USR C3030909002 Exterior Canopy W/Framing	95.00	SF	1,862	39	1,593	0	3,494	1,235	4,729	1,927
USR C3030909006 4" Polyurethane Panels W/.040" Aluminum Skin Each Side	64.02	SF	1,126	27	1,192	0	2,345	829	3,175	1,293
C3040 INTERIOR COATINGS AND SPECIAL FINISHES	**1.00**	**EA**	**37**	**0**	**3**	**0**	**40**	**14**	**54**	**22**
C304002 CONCRETE FINISHES	**1.00**	**EA**	**37**	**0**	**3**	**0**	**40**	**14**	**54**	**22**
USR C3040020101 Exposed Concrete Finish	7.67	SF	37	0	3	0	40	14	54	22
D SERVICES	**1.00**	**EA**	**5,176,183**	**6,845**	**6,024,100**	**190,112**	**11,397,239**	**4,029,494**	**15,426,733**	**6,284,882**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
D10 CONVEYING	**1.00**	**EA**	**35,284**	**0**	**76,531**	**0**	**111,815**	**39,532**	**151,347**	**61,659**
D1010 ELEVATORS AND LIFTS	**1.00**	**EA**	**35,284**	**0**	**76,531**	**0**	**111,815**	**39,532**	**151,347**	**61,659**
D101002 PASSENGER ELEVATORS	**1.00**	**EA**	**35,284**	**0**	**76,531**	**0**	**111,815**	**39,532**	**151,347**	**61,659**
USR D1010020204 Hydraulic Passenger Elevator - 5 Story	5.00	EA	35,284	0	76,531	0	111,815	39,532	151,347	61,659
D20 PLUMBING	**1.00**	**EA**	**402,453**	**199**	**870,157**	**1,188**	**1,273,997**	**450,422**	**1,724,419**	**702,532**
D2010 PLUMBING FIXTURES	**1.00**	**EA**	**144,322**	**0**	**380,122**	**0**	**524,444**	**185,417**	**709,861**	**289,199**
D201001 WATERCLOSETS	**1.00**	**EA**	**8,511**	**0**	**20,024**	**0**	**28,535**	**10,089**	**38,624**	**15,735**
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	2.00	EA	561	0	1,068	0	1,629	576	2,205	898

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010102 Floor Mounted Water Closet, Handicap, Tanktype	1.00	EA	281	0	534	0	814	288	1,102	449
USR D2010010106 Wall Mounted Water Closet, White Vitreous China	1.00	EA	861	0	2,592	0	3,454	1,221	4,675	1,904
USR D2010010106 Wall Mounted Water Closet, White Vitreous China	1.00	EA	861	0	2,592	0	3,454	1,221	4,675	1,904
USR D2010010106 Wall Mounted Water Closet, White Vitreous China	1.00	EA	861	0	2,592	0	3,454	1,221	4,675	1,904
USR D2010010106 Wall Mounted Water Closet, White Vitreous China	1.00	EA	861	0	2,592	0	3,454	1,221	4,675	1,904

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2010010107 Floor Mounted Water Closet, Elongated W/Bed Pan Rinse	1.00	EA	297	0	577	0	874	309	1,184	482
D201002 URINALS	**1.00**	**EA**	**2,379**	**0**	**5,133**	**0**	**7,512**	**2,656**	**10,168**	**4,142**
USR D2010020201 Floor Mounted Urinal	1.00	EA	595	0	1,283	0	1,878	664	2,542	1,036
USR D2010020201 Floor Mounted Urinal	1.00	EA	595	0	1,283	0	1,878	664	2,542	1,036
USR D2010020201 Floor Mounted Urinal	1.00	EA	595	0	1,283	0	1,878	664	2,542	1,036
USR D2010020201 Floor Mounted Urinal	1.00	EA	595	0	1,283	0	1,878	664	2,542	1,036
D201003 LAVATORIES	**1.00**	**EA**	**32,869**	**0**	**105,836**	**0**	**138,705**	**49,039**	**187,744**	**76,487**
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	2.00	EA	2,163	0	3,221	0	5,384	1,903	7,287	2,969
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	1.00	EA	1,081	0	1,611	0	2,692	952	3,644	1,484
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	2.00	EA	2,163	0	3,221	0	5,384	1,903	7,287	2,969
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	1.00	EA	1,081	0	1,611	0	2,692	952	3,644	1,484
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	1.00	EA	1,081	0	1,611	0	2,692	952	3,644	1,484
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	1.00	EA	1,081	0	1,611	0	2,692	952	3,644	1,484
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	1.00	EA	1,081	0	1,611	0	2,692	952	3,644	1,484

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	5.00	EA	5,407	0	8,053	0	13,460	4,759	18,219	7,422
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	1.00	EA	1,081	0	1,611	0	2,692	952	3,644	1,484
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	1.00	EA	1,081	0	1,611	0	2,692	952	3,644	1,484
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	1.00	EA	1,081	0	1,611	0	2,692	952	3,644	1,484
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	1.00	EA	1,081	0	1,611	0	2,692	952	3,644	1,484
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	2.00	EA	2,163	0	3,221	0	5,384	1,903	7,287	2,969
USR D2010030301 Wall Hung 16" By 14" White Single Bowl Lavatory	1.00	EA	1,081	0	1,611	0	2,692	952	3,644	1,484
USR D2010030302 Wall Hung 18" By 15" White Single Bowl Lavatory	1.00	EA	1,108	0	1,070	0	2,178	770	2,948	1,201
USR D2010030302 Wall Hung 18" By 15" White Single Bowl Lavatory	1.00	EA	1,108	0	1,070	0	2,178	770	2,948	1,201
USR D2010030302 Wall Hung 18" By 15" White Single Bowl Lavatory	1.00	EA	1,108	0	1,070	0	2,178	770	2,948	1,201
USR D2010030302 Wall Hung 18" By 15" White Single Bowl Lavatory	1.00	EA	1,108	0	1,070	0	2,178	770	2,948	1,201
USR D2010030304 26" By 18" White Oval Lavatory	1.00	EA	275	0	407	0	682	241	923	376
USR D2010030305 Wall Hung Lavatory, White Vitreous China	1.00	EA	212	0	255	0	467	165	633	258

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2010030305 Wall Hung Lavatory, White Vitreous China	1.00	EA	212	0	255	0	467	165	633	258
USR D2010030305 Wall Hung Lavatory, White Vitreous China	1.00	EA	212	0	255	0	467	165	633	258
USR D2010030305 Wall Hung Lavatory, White Vitreous China	1.00	EA	212	0	255	0	467	165	633	258
USR D2010030305 Wall Hung Lavatory, White Vitreous China	1.00	EA	212	0	255	0	467	165	633	258
USR D2010030305 Wall Hung Lavatory, White Vitreous China	1.00	EA	212	0	255	0	467	165	633	258
USR D2010030307 Wall Hung Lavatory, Handicapped	1.00	EA	212	0	1,378	0	1,590	562	2,153	877
USR D2010030307 Wall Hung Lavatory, Handicapped	1.00	EA	212	0	1,378	0	1,590	562	2,153	877
USR D2010030310 Wash Fountain - Precast Terrazzo - 54" Dia	1.00	EA	938	0	15,761	0	16,699	5,904	22,603	9,209
USR D2010030310 Wash Fountain - Precast Terrazzo - 54" Dia	1.00	EA	938	0	15,761	0	16,699	5,904	22,603	9,209
USR D2010030310 Wash Fountain - Precast Terrazzo - 54" Dia	1.00	EA	938	0	15,761	0	16,699	5,904	22,603	9,209
USR D2010030310 Wash Fountain - Precast Terrazzo - 54" Dia	1.00	EA	938	0	15,761	0	16,699	5,904	22,603	9,209
D201004 SINKS	**1.00**	**EA**	**69,794**	**0**	**154,837**	**0**	**224,631**	**79,418**	**304,050**	**123,870**
USR D2010040401 S.S. Sink, Single Bowl	3.00	EA	796	0	3,488	0	4,285	1,515	5,799	2,363
USR D2010040402 S.S. Sink, Double Bowl 32 X 21 X 7	1.00	EA	310	0	1,679	0	1,989	703	2,692	1,097
USR D2010040402 S.S. Sink, Double Bowl 32 X 21 X 7	1.00	EA	310	0	1,679	0	1,989	703	2,692	1,097
USR D2010040402 S.S. Sink, Double Bowl 32 X 21 X 7	1.00	EA	310	0	1,679	0	1,989	703	2,692	1,097

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2010040403 S.S. Kitchen Sink, Single Bowl 25 X 22	1.00	EA	960	0	1,588	0	2,548	901	3,449	1,405
USR D2010040404 Medical Sinks	3.00	EA	9,636	0	13,218	0	22,855	8,080	30,935	12,603
USR D2010040407 Janitor Sink - Floor Type	1.00	EA	338	0	1,766	0	2,103	744	2,847	1,160
USR D2010040407 Janitor Sink - Floor Type	1.00	EA	338	0	1,766	0	2,103	744	2,847	1,160
USR D2010040407 Janitor Sink - Floor Type	6.00	EA	2,027	0	10,593	0	12,621	4,462	17,083	6,960
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040408 Wall Hung 24" By 20" Janitors Sink Of Porcelain Enamel	1.00	EA	1,515	0	3,333	0	4,848	1,714	6,562	2,674
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	2.00	EA	3,278	0	7,493	0	10,771	3,808	14,579	5,940
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040411 Stainless Steel Sink, Laboratory, 21 1/2 X 15 1/2 X 7	1.00	EA	1,639	0	3,746	0	5,386	1,904	7,290	2,970
USR D2010040412 Stainless Steel Sink, Laboratory, 710 mm X 510 mm X 220 mm(28 X 20 X 8 3/4)	1.00	EA	1,515	0	2,489	0	4,004	1,416	5,420	2,208
USR D2010040412 Stainless Steel Sink, Laboratory, 710 mm X 510 mm X 220 mm(28 X 20 X 8 3/4)	1.00	EA	1,515	0	2,489	0	4,004	1,416	5,420	2,208
USR D2010040412 Stainless Steel Sink, Laboratory, 710 mm X 510 mm X 220 mm(28 X 20 X 8 3/4)	1.00	EA	1,515	0	2,489	0	4,004	1,416	5,420	2,208
USR D2010040412 Stainless Steel Sink, Laboratory, 710 mm X 510 mm X 220 mm(28 X 20 X 8 3/4)	1.00	EA	1,515	0	2,489	0	4,004	1,416	5,420	2,208
USR D2010040412 Stainless Steel Sink, Laboratory, 710 mm X 510 mm X 220 mm(28 X 20 X 8 3/4)	1.00	EA	1,515	0	2,489	0	4,004	1,416	5,420	2,208

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2010040412 Stainless Steel Sink, Laboratory, 710 mm X 510 mm X 220 mm(28 X 20 X 8 3/4)	1.00	EA	1,515	0	2,489	0	4,004	1,416	5,420	2,208
D201005 SHOWERS/TUBS	**1.00**	**EA**	**22,261**	**0**	**38,668**	**0**	**60,929**	**21,541**	**82,470**	**33,599**
USR D2010050502 Shower Valve, Drain For Ceramic Tile Shower	1.00	EA	2,655	0	2,560	0	5,215	1,844	7,059	2,876
USR D2010050502 Shower Valve, Drain For Ceramic Tile Shower	1.00	EA	2,655	0	2,560	0	5,215	1,844	7,059	2,876
USR D2010050502 Shower Valve, Drain For Ceramic Tile Shower	1.00	EA	2,655	0	2,560	0	5,215	1,844	7,059	2,876
USR D2010050502 Shower Valve, Drain For Ceramic Tile Shower	1.00	EA	2,655	0	2,560	0	5,215	1,844	7,059	2,876
USR D2010050503 Porcelain Enameled Cast Iron Bathtub - 1.52 m(5')	1.00	EA	338	0	1,981	0	2,319	820	3,139	1,279
USR D2010050504 Porcelain Enameled Cast Iron Bathtub	1.00	EA	2,752	0	6,312	0	9,064	3,205	12,268	4,998
USR D2010050504 Porcelain Enameled Cast Iron Bathtub	1.00	EA	2,752	0	6,312	0	9,064	3,205	12,268	4,998
USR D2010050504 Porcelain Enameled Cast Iron Bathtub	1.00	EA	2,752	0	6,312	0	9,064	3,205	12,268	4,998
USR D2010050504 Porcelain Enameled Cast Iron Bathtub	1.00	EA	2,752	0	6,312	0	9,064	3,205	12,268	4,998
USR D2010050508 Fiberglass Shower Unit	1.00	EA	297	0	1,197	0	1,494	528	2,023	824
D201006 DRINKING FOUNTAINS & COOLERS	**1.00**	**EA**	**5,947**	**0**	**25,217**	**0**	**31,164**	**11,018**	**42,182**	**17,185**
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	4.00	EA	1,487	0	6,304	0	7,791	2,755	10,546	4,296
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	1.00	EA	372	0	1,576	0	1,948	689	2,636	1,074
D201091 OTHER PLUMBING FIXTURES	**1.00**	**EA**	**2,560**	**0**	**30,408**	**0**	**32,968**	**11,656**	**44,624**	**18,180**
USR D2010919001 Surgeon's Scrub Station	1.00	EA	286	0	7,579	0	7,865	2,781	10,646	4,337

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2010919001 Surgeon's Scrub Station	1.00	EA	286	0	7,579	0	7,865	2,781	10,646	4,337
USR D2010919001 Surgeon's Scrub Station	1.00	EA	286	0	7,579	0	7,865	2,781	10,646	4,337
USR D2010919003 Whirlpool, Stainless Steel, 321.76 L(85 Gal)	1.00	EA	1,701	0	7,671	0	9,372	3,313	12,685	5,168
D2020 DOMESTIC WATER DISTRIBUTION	**1.00**	**EA**	**120,871**	**176**	**293,490**	**0**	**414,537**	**146,559**	**561,096**	**228,592**
D202001 PIPES & FITTINGS	**1.00**	**EA**	**71,255**	**0**	**57,668**	**0**	**128,924**	**45,581**	**174,504**	**71,093**
USR D2020010101 Copper Pipe & Fittings (1/2" to 4" Dia. Piping)	47.00	EA	71,255	0	57,668	0	128,924	45,581	174,504	71,093
D202002 VALVES & HYDRANTS	**1.00**	**EA**	**2,500**	**0**	**28,231**	**0**	**30,732**	**10,865**	**41,597**	**16,947**
USR D2020020201 Valves & Hydrants	47.00	EA	2,500	0	28,231	0	30,732	10,865	41,597	16,947
D202003 DOMESTIC WATER EQUIPMENT	**1.00**	**EA**	**30,567**	**176**	**158,339**	**0**	**189,082**	**66,850**	**255,932**	**104,267**
USR D2020030106 Domestic Hot Water Heaters	1.00	EA	2,573	0	24,526	0	27,099	9,581	36,680	14,944
USR D2020030114 Water Heater & Circulating Pump	1.00	EA	2,106	0	22,909	0	25,015	8,844	33,860	13,794
USR D2020030116 575.38 L/min (152 GPM) Heat Exchanger For Domestic Hot Water	1.00	EA	12,696	104	57,674	0	70,475	24,916	95,391	38,862
USR D2020030117 18,927 L (5000 Gal) Domestic Hot Water Storage Tank For Hospital	1.00	EA	13,192	71	53,229	0	66,493	23,508	90,001	36,667
D202004 INSULATION & IDENTIFICATION	**1.00**	**EA**	**11,865**	**0**	**4,629**	**0**	**16,494**	**5,831**	**22,325**	**9,095**
USR D2020040401 Fiberglass 1-1/2" Pipe Insulation With Vapor Barrier	47.00	EA	11,865	0	4,629	0	16,494	5,831	22,325	9,095
D202005 SPECIALTIES	**1.00**	**EA**	**4,683**	**0**	**44,623**	**0**	**49,306**	**17,432**	**66,738**	**27,189**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2020050502 Domestic Water Supply Specialties, 25.4 mm(1")	47.00	EA	4,587	0	44,527	0	49,114	17,364	66,478	27,083
USR D2020050503 Trap Primer Unit For Seldom Access Floor Drains	2.00	EA	95	0	96	0	192	68	260	106
D2030 SANITARY WASTE	**1.00**	**EA**	**53,264**	**23**	**55,263**	**0**	**108,550**	**38,378**	**146,928**	**59,859**
D203001 WASTE PIPE & FITTINGS	**1.00**	**EA**	**49,386**	**0**	**48,381**	**0**	**97,767**	**34,565**	**132,332**	**53,912**
USR D2030010101 Waste Pipe & Fittings	47.00	EA	49,386	0	48,381	0	97,767	34,565	132,332	53,912
D203002 VENT PIPE & FITTINGS	**1.00**	**EA**	**824**	**0**	**820**	**0**	**1,644**	**581**	**2,225**	**906**
USR D2030020201 C.I. No Hub Vent Pipe Systm	8.00	EA	824	0	820	0	1,644	581	2,225	906
D203003 FLOOR DRAINS	**1.00**	**EA**	**446**	**0**	**3,023**	**0**	**3,469**	**1,226**	**4,695**	**1,913**
USR D2030030305 Heavy Duty Cast Iron Floor Drains	3.00	EA	446	0	3,023	0	3,469	1,226	4,695	1,913
D203004 SANITARY AND VENT EQUIPMENT	**1.00**	**EA**	**2,607**	**23**	**3,040**	**0**	**5,671**	**2,005**	**7,676**	**3,127**
USR D2030040201 106 L/min(28 GPM), 745.7 W(1HP), Bronze, Sump Pump	1.00	EA	595	0	2,110	0	2,705	956	3,661	1,491
USR D2030040203 CIP 1.22 m X 1.22 m(4'0" X 4'0") Catch Basin	1.00	EA	2,013	23	930	0	2,966	1,049	4,015	1,636
D2090 OTHER PLUMBING SYSTEMS	**1.00**	**EA**	**83,998**	**0**	**141,281**	**1,188**	**226,466**	**80,067**	**306,533**	**124,882**
D209001 SPECIAL PIPING SYSTEMS	**1.00**	**EA**	**80,798**	**0**	**127,319**	**1,188**	**209,305**	**74,000**	**283,305**	**115,419**
USR D2090010111 Air Compressor, Medical/Dental	1.00	EA	4,125	0	24,373	0	28,499	10,076	38,575	15,715
USR D2090010112 Vacuum Pump, Medical/Dental	1.00	EA	0	0	56,786	1,188	57,974	20,497	78,471	31,969

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D2090010115 Medical Gases Piping Per Outlet	18.00	EA	20,575	0	11,014	0	31,589	11,168	42,757	17,419
USR D2090010116 Alarm Panel For Medical Gases	1.00	EA	268	0	1,895	0	2,163	765	2,928	1,193
USR D2090010118 Piping For Steam Sterilization System	1.00	EA	51,058	0	30,170	0	81,228	28,718	109,946	44,792
USR D2090010119 Mve System Piping	2.00	EA	4,772	0	3,080	0	7,852	2,776	10,628	4,330
D209002 ACID WASTE SYSTEMS	**1.00**	**EA**	**3,199**	**0**	**13,962**	**0**	**17,161**	**6,067**	**23,228**	**9,463**
USR D2090020205 Acid Resistant Piping	1.00	EA	3,106	0	13,385	0	16,491	5,830	22,321	9,094
USR D2090020210 76.2 mm(3") Acid Resistant Floor Drain	1.00	EA	93	0	577	0	670	237	907	369
D30 HVAC	**1.00**	**EA**	**3,885,225**	**6,319**	**4,377,649**	**174,572**	**8,443,766**	**2,985,293**	**11,429,059**	**4,656,221**
D3010 ENERGY SUPPLY	**1.00**	**EA**	**2,739**	**0**	**2,519**	**0**	**5,258**	**1,859**	**7,117**	**2,899**
D301002 GAS SUPPLY SYSTEM	**1.00**	**EA**	**2,739**	**0**	**2,519**	**0**	**5,258**	**1,859**	**7,117**	**2,899**
USR D3010020230 1465.35 kW (5000 MBH) Natural Gas Supply	1.00	EA	2,739	0	2,519	0	5,258	1,859	7,117	2,899
D3020 HEAT GENERATING SYSTEMS	**1.00**	**EA**	**66,498**	**0**	**202,257**	**0**	**268,755**	**95,018**	**363,774**	**148,202**
D302001 BOILERS	**1.00**	**EA**	**58,865**	**0**	**189,380**	**0**	**248,245**	**87,767**	**336,012**	**136,892**
USR D3020010258 Hot Water Boiler, Gas Fired 426.9 kW (1450 MBH), complete w/ fittings	2.00	EA	58,865	0	189,380	0	248,245	87,767	336,012	136,892
D302003 FUEL-FIRED UNIT HEATERS	**1.00**	**EA**	**3,011**	**0**	**7,653**	**0**	**10,664**	**3,770**	**14,434**	**5,880**
USR D3020031401 Vertical Unit Heater, Hot Water, 7.32 kW (25 MBH)	2.00	EA	3,011	0	7,653	0	10,664	3,770	14,434	5,880
D302090 OTHER HEAT GENERATING SYSTEMS	**1.00**	**EA**	**4,622**	**0**	**5,224**	**0**	**9,846**	**3,481**	**13,327**	**5,430**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3020909001 Convector, 508.00mm x 609.60mm (20 X 24)	1.00	EA	191	0	174	0	365	129	494	201
USR D3020909001 Convector, 508.00mm x 609.60mm (20 X 24)	1.00	EA	191	0	174	0	365	129	494	201
USR D3020909001 Convector, 508.00mm x 609.60mm (20 X 24)	1.00	EA	191	0	174	0	365	129	494	201
USR D3020909002 Convector, 508.00mm x 914.40mm (20 X 36)	1.00	EA	223	0	260	0	483	171	653	266
USR D3020909002 Convector, 508.00mm x 914.40mm (20 X 36)	1.00	EA	223	0	260	0	483	171	653	266
USR D3020909002 Convector, 508.00mm x 914.40mm (20 X 36)	1.00	EA	223	0	260	0	483	171	653	266
USR D3020909002 Convector, 508.00mm x 914.40mm (20 X 36)	1.00	EA	223	0	260	0	483	171	653	266
USR D3020909002 Convector, 508.00mm x 914.40mm (20 X 36)	1.00	EA	223	0	260	0	483	171	653	266
USR D3020909002 Convector, 508.00mm x 914.40mm (20 X 36)	1.00	EA	223	0	260	0	483	171	653	266
USR D3020909002 Convector, 508.00mm x 914.40mm (20 X 36)	1.00	EA	223	0	260	0	483	171	653	266
USR D3020909003 Convector, 508.00mm x 609.60mm (20 X 48)	1.00	EA	259	0	348	0	607	214	821	334
USR D3020909003 Convector, 508.00mm x 609.60mm (20 X 48)	1.00	EA	259	0	348	0	607	214	821	334
USR D3020909003 Convector, 508.00mm x 609.60mm (20 X 48)	1.00	EA	259	0	348	0	607	214	821	334
USR D3020909003 Convector, 508.00mm x 609.60mm (20 X 48)	2.00	EA	517	0	696	0	1,213	429	1,642	669
USR D3020909005 Convector, 812.80mm x 914.40mm (32 X 36)	1.00	EA	233	0	260	0	493	174	668	272
USR D3020909005 Convector, 812.80mm x 914.40mm (32 X 36)	1.00	EA	233	0	260	0	493	174	668	272
USR D3020909005 Convector, 812.80mm x 914.40mm (32 X 36)	1.00	EA	233	0	260	0	493	174	668	272

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3020909005 Convector, 812.80mm x 914.40mm (32 X 36)	1.00	EA	233	0	260	0	493	174	668	272
USR D3020909009 Finned Tube Baseboard Unit 2.44m (8') Length	1.00	EA	264	0	101	0	365	129	494	201
D3030 COOLING GENERATING SYSTEMS	**1.00**	**EA**	**74,243**	**431**	**273,168**	**0**	**347,842**	**122,980**	**470,822**	**191,814**
D303001 CHILLED WATER SYSTEMS	**1.00**	**EA**	**74,243**	**431**	**273,168**	**0**	**347,842**	**122,980**	**470,822**	**191,814**
USR D3030011130 457.2 kW (130 Ton) Water Cooled Packaged Screw Chiller W/Mech. Room Piping	1.00	EA	74,243	431	273,168	0	347,842	122,980	470,822	191,814
D3040 DISTRIBUTION SYSTEMS	**1.00**	**EA**	**3,485,421**	**5,888**	**3,344,834**	**79,240**	**6,915,382**	**2,444,933**	**9,360,316**	**3,813,411**
D304001 AIR DISTRIBUTION, HEATING & COOLING	**1.00**	**EA**	**2,957,471**	**0**	**2,545,279**	**78,150**	**5,580,900**	**1,973,127**	**7,554,027**	**3,077,526**
USR D3040010101 0.2359m3/s (500 CFM) Hot Water Fan Coil Unit, Htg Only W/Air Dist Systm	1.00	EA	3,870	0	5,133	0	9,003	3,183	12,187	4,965
USR D3040010101 0.2359m3/s (500 CFM) Hot Water Fan Coil Unit, Htg Only W/Air Dist Systm	1.00	EA	3,870	0	5,133	0	9,003	3,183	12,187	4,965
USR D3040010101 0.2359m3/s (500 CFM) Hot Water Fan Coil Unit, Htg Only W/Air Dist Systm	1.00	EA	3,870	0	5,133	0	9,003	3,183	12,187	4,965
USR D3040010101 0.2359m3/s (500 CFM) Hot Water Fan Coil Unit, Htg Only W/Air Dist Systm	1.00	EA	3,870	0	5,133	0	9,003	3,183	12,187	4,965
USR D3040011102 0.2359m3/s (500 CFM) 4 Pipe Fan Coil Unit, Heating and Cooling W/Air Dist System	60.00	EA	192,331	0	570,775	78,150	841,256	297,426	1,138,682	463,901
USR D3040011152 Ductwork Supply Stack Insulation	964.12	SF	9,916	0	1,136	0	11,052	3,907	14,959	6,094

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040011153 Floor Ductwork (Supply at 1500FPM)	4,839.76	LB	42,980	0	4,418	0	47,398	16,758	64,156	26,137
USR D3040011154 Floor Ductwork (Return at 2500FPM)	2,474.88	LB	21,978	0	2,259	0	24,238	8,569	32,807	13,366
USR D3040011155 Floor Ductwork (Exhaust at 2500FPM)	1,632.42	LB	14,497	0	1,490	0	15,987	5,652	21,639	8,816
USR D3040011161 Ductwork Stack (Supply at 1500FPM) Commercial Building	1,105.44	LB	9,817	0	1,009	0	10,826	3,828	14,654	5,970
USR D3040011162 Ductwork Stack (Return at 2500FPM) Commercial Building	801.86	LB	7,121	0	732	0	7,853	2,776	10,629	4,330
USR D3040011163 Ductwork Stack (Exhaust at 2500FPM) Commercial Building	659.97	LB	5,861	0	603	0	6,463	2,285	8,749	3,564
USR D3040013102 Air Dist Sys For 0.0354 - 0.1652m3/s (75 - 350 CFM) Vav W/Hot Water Coil	1.00	EA	1,982	0	2,606	0	4,588	1,622	6,211	2,530
USR D3040013102 Air Dist Sys For 0.0354 - 0.1652m3/s (75 - 350 CFM) Vav W/Hot Water Coil	5.00	EA	9,911	0	13,031	0	22,942	8,111	31,054	12,651
USR D3040013102 Air Dist Sys For 0.0354 - 0.1652m3/s (75 - 350 CFM) Vav W/Hot Water Coil	4.00	EA	7,929	0	10,425	0	18,354	6,489	24,843	10,121
USR D3040013103 Air Dist Sys For 0.0944 - 0.3303m3/s (200 - 700 CFM) Vav Box W/Hot Water Coil	1.00	EA	2,987	0	3,065	0	6,051	2,140	8,191	3,337
USR D3040013103 Air Dist Sys For 0.0944 - 0.3303m3/s (200 - 700 CFM) Vav Box W/Hot Water Coil	1.00	EA	2,987	0	3,065	0	6,051	2,140	8,191	3,337
USR D3040013103 Air Dist Sys For 0.0944 - 0.3303m3/s (200 - 700 CFM) Vav Box W/Hot Water Coil	1.00	EA	2,987	0	3,065	0	6,051	2,140	8,191	3,337

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040013103 Air Dist Sys For 0.0944 - 0.3303m3/s (200 - 700 CFM) Vav Box W/Hot Water Coil	1.00	EA	2,987	0	3,065	0	6,051	2,140	8,191	3,337
USR D3040013103 Air Dist Sys For 0.0944 - 0.3303m3/s (200 - 700 CFM) Vav Box W/Hot Water Coil	1.00	EA	2,987	0	3,065	0	6,051	2,140	8,191	3,337
USR D3040013104 Air Dist Sys For 0.1888 - 0.4720m3/s (400 - 1000 CFM) Vav Box W/Hot Water Coil	1.00	EA	4,317	0	3,416	0	7,734	2,734	10,468	4,265
USR D3040013104 Air Dist Sys For 0.1888 - 0.4720m3/s (400 - 1000 CFM) Vav Box W/Hot Water Coil	7.00	EA	30,221	0	23,915	0	54,136	19,140	73,276	29,853
USR D3040013105 Air Dist Sys For 0.2831 - 0.7079m3/s (600 - 1500 CFM) Vav Box W/Hot Water Coil	1.00	EA	4,325	0	3,655	0	7,980	2,821	10,801	4,400
USR D3040013106 Air Dist Sys For 0.2831 - 0.6607m3/s (600 - 1400 CFM) Vav Box W/HW Coil, Booster	1.00	EA	4,622	0	6,725	0	11,347	4,012	15,359	6,257
USR D3040013108 Air Dist Sys For 0.0353 - 0.1652m3/s (75-350 CFM) Vav Box W/HW Coil, Boost	1.00	EA	2,594	0	4,052	0	6,646	2,350	8,996	3,665
USR D3040013110 Air Dist Sys 0.1415 - 0.3375m3/s (300 - 800 CFM) Vav With Hot Water Heating	1.00	EA	2,772	0	2,707	0	5,479	1,937	7,416	3,021
USR D3040013111 Air Dist Sys 0.3375 - 0.5663m3/s (800 - 1200 CFM) Vav With Hot Water Heating	1.00	EA	5,496	0	3,857	0	9,353	3,307	12,659	5,157

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040013112 Air Dist Sys 0.5663 - 1.3214m3/s (1200 - 2800 CFM) Vav With Hot Water Heating	1.00	EA	12,015	0	6,113	0	18,127	6,409	24,536	9,996
USR D3040013113 0.0353 - 0.1651m3/s (75 - 350 CFM) Vav Box, Dual Duct Input	1.00	EA	718	0	1,725	0	2,443	864	3,306	1,347
USR D3040013113 0.0353 - 0.1651m3/s (75 - 350 CFM) Vav Box, Dual Duct Input	1.00	EA	718	0	1,725	0	2,443	864	3,306	1,347
USR D3040013113 0.0353 - 0.1651m3/s (75 - 350 CFM) Vav Box, Dual Duct Input	1.00	EA	718	0	1,725	0	2,443	864	3,306	1,347
USR D3040013113 0.0353 - 0.1651m3/s (75 - 350 CFM) Vav Box, Dual Duct Input	1.00	EA	718	0	1,725	0	2,443	864	3,306	1,347
USR D3040013113 0.0353 - 0.1651m3/s (75 - 350 CFM) Vav Box, Dual Duct Input	1.00	EA	718	0	1,725	0	2,443	864	3,306	1,347
USR D3040013113 0.0353 - 0.1651m3/s (75 - 350 CFM) Vav Box, Dual Duct Input	1.00	EA	718	0	1,725	0	2,443	864	3,306	1,347
USR D3040013113 0.0353 - 0.1651m3/s (75 - 350 CFM) Vav Box, Dual Duct Input	1.00	EA	718	0	1,725	0	2,443	864	3,306	1,347
USR D3040013113 0.0353 - 0.1651m3/s (75 - 350 CFM) Vav Box, Dual Duct Input	1.00	EA	718	0	1,725	0	2,443	864	3,306	1,347
USR D3040013113 0.0353 - 0.1651m3/s (75 - 350 CFM) Vav Box, Dual Duct Input	1.00	EA	718	0	1,725	0	2,443	864	3,306	1,347
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	1.00	EA	2,772	0	3,459	0	6,231	2,203	8,434	3,436
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	1.00	EA	2,772	0	3,459	0	6,231	2,203	8,434	3,436

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	1.00	EA	2,772	0	3,459	0	6,231	2,203	8,434	3,436
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	1.00	EA	2,772	0	3,459	0	6,231	2,203	8,434	3,436
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	1.00	EA	2,772	0	3,459	0	6,231	2,203	8,434	3,436
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	2.00	EA	5,544	0	6,918	0	12,462	4,406	16,868	6,872
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	1.00	EA	2,772	0	3,459	0	6,231	2,203	8,434	3,436
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	1.00	EA	2,772	0	3,459	0	6,231	2,203	8,434	3,436
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	1.00	EA	2,772	0	3,459	0	6,231	2,203	8,434	3,436
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	1.00	EA	2,772	0	3,459	0	6,231	2,203	8,434	3,436
USR D3040013114 0.1415 - 0.3775m3/s (300 - 800 CFM) Vav Box, Dual Duct Input	1.00	EA	2,772	0	3,459	0	6,231	2,203	8,434	3,436
USR D3040013115 0.3775 - 0.6607m3/s (800 - 1400 CFM) Vav Box, Dual Duct Input	1.00	EA	6,042	0	4,994	0	11,035	3,902	14,937	6,085
USR D3040013115 0.3775 - 0.6607m3/s (800 - 1400 CFM) Vav Box, Dual Duct Input	1.00	EA	6,042	0	4,994	0	11,035	3,902	14,937	6,085
USR D3040013115 0.3775 - 0.6607m3/s (800 - 1400 CFM) Vav Box, Dual Duct Input	1.00	EA	6,042	0	4,994	0	11,035	3,902	14,937	6,085

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040013115 0.3775 - 0.6607m3/s (800 - 1400 CFM) Vav Box, Dual Duct Input	1.00	EA	6,042	0	4,994	0	11,035	3,902	14,937	6,085
USR D3040013115 0.3775 - 0.6607m3/s (800 - 1400 CFM) Vav Box, Dual Duct Input	1.00	EA	6,042	0	4,994	0	11,035	3,902	14,937	6,085
USR D3040013115 0.3775 - 0.6607m3/s (800 - 1400 CFM) Vav Box, Dual Duct Input	1.00	EA	6,042	0	4,994	0	11,035	3,902	14,937	6,085
USR D3040013115 0.3775 - 0.6607m3/s (800 - 1400 CFM) Vav Box, Dual Duct Input	1.00	EA	6,042	0	4,994	0	11,035	3,902	14,937	6,085
USR D3040013115 0.3775 - 0.6607m3/s (800 - 1400 CFM) Vav Box, Dual Duct Input	1.00	EA	6,042	0	4,994	0	11,035	3,902	14,937	6,085
USR D3040013115 0.3775 - 0.6607m3/s (800 - 1400 CFM) Vav Box, Dual Duct Input	1.00	EA	6,042	0	4,994	0	11,035	3,902	14,937	6,085
USR D3040013116 0.0472 - 0.1651m3/s (100 - 350 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	667	0	1,063	0	1,730	612	2,341	954
USR D3040013116 0.0472 - 0.1651m3/s (100 - 350 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	2.00	EA	1,334	0	2,125	0	3,459	1,223	4,682	1,908
USR D3040013116 0.0472 - 0.1651m3/s (100 - 350 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	667	0	1,063	0	1,730	612	2,341	954
USR D3040013116 0.0472 - 0.1651m3/s (100 - 350 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	667	0	1,063	0	1,730	612	2,341	954
USR D3040013116 0.0472 - 0.1651m3/s (100 - 350 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	667	0	1,063	0	1,730	612	2,341	954

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040013116 0.0472 - 0.1651m3/s (100 - 350 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	667	0	1,063	0	1,730	612	2,341	954
USR D3040013116 0.0472 - 0.1651m3/s (100 - 350 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	667	0	1,063	0	1,730	612	2,341	954
USR D3040013116 0.0472 - 0.1651m3/s (100 - 350 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	667	0	1,063	0	1,730	612	2,341	954
USR D3040013116 0.0472 - 0.1651m3/s (100 - 350 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	667	0	1,063	0	1,730	612	2,341	954
USR D3040013116 0.0472 - 0.1651m3/s (100 - 350 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	667	0	1,063	0	1,730	612	2,341	954
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	2,192	0	2,273	0	4,465	1,579	6,044	2,462
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	2,192	0	2,273	0	4,465	1,579	6,044	2,462
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	2,192	0	2,273	0	4,465	1,579	6,044	2,462
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	2,192	0	2,273	0	4,465	1,579	6,044	2,462

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	2,192	0	2,273	0	4,465	1,579	6,044	2,462
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	2.00	EA	4,385	0	4,546	0	8,930	3,157	12,088	4,925
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	2,192	0	2,273	0	4,465	1,579	6,044	2,462
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	2,192	0	2,273	0	4,465	1,579	6,044	2,462
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	2,192	0	2,273	0	4,465	1,579	6,044	2,462
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	2,192	0	2,273	0	4,465	1,579	6,044	2,462
USR D3040013117 0.0707 - 0.3540m3/s (150 - 750 CFM) Dual Duct Constant Vol Terminal Unit W/Duc	1.00	EA	2,192	0	2,273	0	4,465	1,579	6,044	2,462
USR D3040013118 0.1651 - 0.7079m3/s (350 - 1500 CFM) Dual Duct Constant Vol Terminal Unit W/Du	1.00	EA	5,570	0	3,687	0	9,257	3,273	12,530	5,105
USR D3040013118 0.1651 - 0.7079m3/s (350 - 1500 CFM) Dual Duct Constant Vol Terminal Unit W/Du	1.00	EA	5,570	0	3,687	0	9,257	3,273	12,530	5,105

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040013118 0.1651 - 0.7079m3/s (350 - 1500 CFM) Dual Duct Constant Vol Terminal Unit W/Du	1.00	EA	5,570	0	3,687	0	9,257	3,273	12,530	5,105
USR D3040013118 0.1651 - 0.7079m3/s (350 - 1500 CFM) Dual Duct Constant Vol Terminal Unit W/Du	2.00	EA	11,141	0	7,373	0	18,514	6,546	25,060	10,209
USR D3040013118 0.1651 - 0.7079m3/s (350 - 1500 CFM) Dual Duct Constant Vol Terminal Unit W/Du	1.00	EA	5,570	0	3,687	0	9,257	3,273	12,530	5,105
USR D3040013118 0.1651 - 0.7079m3/s (350 - 1500 CFM) Dual Duct Constant Vol Terminal Unit W/Du	1.00	EA	5,570	0	3,687	0	9,257	3,273	12,530	5,105
USR D3040013118 0.1651 - 0.7079m3/s (350 - 1500 CFM) Dual Duct Constant Vol Terminal Unit W/Du	1.00	EA	5,570	0	3,687	0	9,257	3,273	12,530	5,105
USR D3040013118 0.1651 - 0.7079m3/s (350 - 1500 CFM) Dual Duct Constant Vol Terminal Unit W/Du	1.00	EA	5,570	0	3,687	0	9,257	3,273	12,530	5,105
USR D3040013119 3.07m3/s (6500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	77,708	0	63,665	0	141,373	49,982	191,355	77,958
USR D3040013119 3.07m3/s (6500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	77,708	0	63,665	0	141,373	49,982	191,355	77,958
USR D3040013119 3.07m3/s (6500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	77,708	0	63,665	0	141,373	49,982	191,355	77,958
USR D3040013119 3.07m3/s (6500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	77,708	0	63,665	0	141,373	49,982	191,355	77,958
USR D3040013119 3.07m3/s (6500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	77,708	0	63,665	0	141,373	49,982	191,355	77,958

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040013119 3.07m3/s (6500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	77,708	0	63,665	0	141,373	49,982	191,355	77,958
USR D3040013120 3.54m3/s (7500 CFM) AHU W/Dual Duct Med Pres Supply Low Pres Rtn	1.00	EA	96,354	0	65,966	0	162,319	57,388	219,707	89,509
USR D3040013120 3.54m3/s (7500 CFM) AHU W/Dual Duct Med Pres Supply Low Pres Rtn	1.00	EA	96,354	0	65,966	0	162,319	57,388	219,707	89,509
USR D3040013120 3.54m3/s (7500 CFM) AHU W/Dual Duct Med Pres Supply Low Pres Rtn	1.00	EA	96,354	0	65,966	0	162,319	57,388	219,707	89,509
USR D3040013120 3.54m3/s (7500 CFM) AHU W/Dual Duct Med Pres Supply Low Pres Rtn	1.00	EA	96,354	0	65,966	0	162,319	57,388	219,707	89,509
USR D3040013120 3.54m3/s (7500 CFM) AHU W/Dual Duct Med Pres Supply Low Pres Rtn	1.00	EA	96,354	0	65,966	0	162,319	57,388	219,707	89,509
USR D3040013121 4.25m3/s (9000 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	117,931	0	74,712	0	192,643	68,109	260,752	106,231
USR D3040013121 4.25m3/s (9000 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	117,931	0	74,712	0	192,643	68,109	260,752	106,231
USR D3040013121 4.25m3/s (9000 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	117,931	0	74,712	0	192,643	68,109	260,752	106,231
USR D3040013121 4.25m3/s (9000 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	117,931	0	74,712	0	192,643	68,109	260,752	106,231
USR D3040013122 5.43m3/s (11500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	95,826	0	74,575	0	170,401	60,245	230,646	93,966
USR D3040013122 5.43m3/s (11500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	95,826	0	74,575	0	170,401	60,245	230,646	93,966

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040013122 5.43m3/s (11500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	95,826	0	74,575	0	170,401	60,245	230,646	93,966
USR D3040013123 6.37m3/s (13500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	138,430	0	84,670	0	223,100	78,877	301,977	123,026
USR D3040013123 6.37m3/s (13500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	138,430	0	84,670	0	223,100	78,877	301,977	123,026
USR D3040013123 6.37m3/s (13500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	138,430	0	84,670	0	223,100	78,877	301,977	123,026
USR D3040013123 6.37m3/s (13500 CFM) AHU W/Dual Duct Med Pres Supply, Low Pres Rtn	1.00	EA	138,430	0	84,670	0	223,100	78,877	301,977	123,026
USR D3040013127 0.6607m3/s (1400 CFM) Sup & Ret Duct Sys For Surgical/Delivery Suite	1.00	EA	17,244	0	19,970	0	37,214	13,157	50,371	20,521
USR D3040013127 0.6607m3/s (1400 CFM) Sup & Ret Duct Sys For Surgical/Delivery Suite	1.00	EA	17,244	0	19,970	0	37,214	13,157	50,371	20,521
USR D3040013127 0.6607m3/s (1400 CFM) Sup & Ret Duct Sys For Surgical/Delivery Suite	1.00	EA	17,244	0	19,970	0	37,214	13,157	50,371	20,521
USR D3040013130 2.36m3/s (5000 CFM) Air Handler	1.00	EA	45,826	0	39,393	0	85,219	30,129	115,348	46,993
D304002 STEAM DISTRIBUTION SYSTEMS	**1.00**	**EA**	**3,065**	**0**	**8,089**	**0**	**11,153**	**3,943**	**15,096**	**6,150**
USR D3040023201 43.96 kW (150 MBH) Steam System For Humidification With Generator	13.52	MBH	1,254	0	3,311	0	4,565	1,614	6,179	2,517
USR D3040023201 43.96 kW (150 MBH) Steam System For Humidification With Generator	18.43	MBH	1,710	0	4,513	0	6,223	2,200	8,423	3,432
USR D3040023201 43.96 kW (150 MBH) Steam System For Humidification With Generator	1.08	MBH	100	0	264	0	365	129	494	201

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
D304003 HOT WATER DISTRIBUTION SYSTEMS	**1.00**	**EA**	**237,483**	**5,268**	**165,627**	**0**	**408,377**	**144,382**	**552,759**	**225,195**
USR D3040031322 Piping Risers - Hot Water for Heating Supply & Return Piping (Medium Load)	4,160.00	LF	215,400	5,004	144,745	0	365,148	129,098	494,246	201,357
USR D3040031323 Piping Risers - Hot Water for Heating Floor Connection (Medium Load)	220.00	LF	22,083	265	20,881	0	43,229	15,284	58,513	23,838
D304006 CHILLED WATER DISTRIBUTION SYSTEMS	**1.00**	**EA**	**71,783**	**620**	**69,515**	**0**	**141,918**	**50,175**	**192,093**	**78,259**
USR D3040061611 Piping Risers - Chilled Water for Cooling Valves (Small Load)	12.00	EA	4,076	0	23,088	0	27,165	9,604	36,769	14,980
USR D3040061612 Piping Risers - Chilled Water for Cooling Supply & Return Piping (Small Load)	1,099.95	LF	34,951	0	18,113	0	53,064	18,761	71,825	29,262
USR D3040061622 Piping Risers - Chilled Water for Cooling Supply & Return Piping (Medium Load)	366.65	LF	18,985	441	12,757	0	32,183	11,378	43,561	17,747
USR D3040061633 Piping Risers - Chilled Water for Cooling Floor Connection (Large Load)	73.33	LF	13,770	179	15,556	0	29,505	10,432	39,937	16,270
D304007 EXHAUST SYSTEMS	**1.00**	**EA**	**179,676**	**0**	**364,638**	**1,090**	**545,404**	**192,828**	**738,232**	**300,757**
USR D3040070740 Exhaust System 0.83 m3/s(1750 CFM), Wall Mounted, With Duct Work	1.00	EA	2,786	0	3,086	0	5,873	2,076	7,949	3,238
USR D3040070742 Exhaust System 0.83m3/s(1750 CFM), Roof Mounted	1.00	EA	8,414	0	4,282	0	12,695	4,488	17,184	7,001
USR D3040070751 3.54 m3/s (7500 CFM) Exhaust Fan & Duct Work	1.00	EA	9,473	0	68,925	0	78,398	27,718	106,116	43,232

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040073701 0.7079m3/s (1500 CFM) Exhaust System For Laboratory, Welded Exh Duct	1.00	EA	2,758	0	1,697	0	4,456	1,575	6,031	2,457
USR D3040073702 0.4720m3/s (1000 CFM) Exhaust Sys For Laboratory Hood, Welded Duct	1.00	EA	422	0	987	0	1,409	498	1,907	777
USR D3040073702 0.4720m3/s (1000 CFM) Exhaust Sys For Laboratory Hood, Welded Duct	1.00	EA	422	0	987	0	1,409	498	1,907	777
USR D3040073702 0.4720m3/s (1000 CFM) Exhaust Sys For Laboratory Hood, Welded Duct	1.00	EA	422	0	987	0	1,409	498	1,907	777
USR D3040073702 0.4720m3/s (1000 CFM) Exhaust Sys For Laboratory Hood, Welded Duct	1.00	EA	422	0	987	0	1,409	498	1,907	777
USR D3040073706 0.1887m3/s (400 CFM) Exhaust System	11.00	EA	2,127	0	2,820	0	4,947	1,749	6,696	2,728
USR D3040073707 1.1798m3/s (2500 CFM) Exhaust System	1.00	EA	2,184	0	11,538	272	13,994	4,948	18,942	7,717
USR D3040073707 1.1798m3/s (2500 CFM) Exhaust System	1.00	EA	2,184	0	11,538	272	13,994	4,948	18,942	7,717
USR D3040073707 1.1798m3/s (2500 CFM) Exhaust System	1.00	EA	2,184	0	11,538	272	13,994	4,948	18,942	7,717
USR D3040073707 1.1798m3/s (2500 CFM) Exhaust System	1.00	EA	2,184	0	11,538	272	13,994	4,948	18,942	7,717
USR D3040073708 0.0755m3/s (160 CFM) Exhaust System	1.00	EA	977	0	1,659	0	2,636	932	3,568	1,453
USR D3040073708 0.0755m3/s (160 CFM) Exhaust System	1.00	EA	977	0	1,659	0	2,636	932	3,568	1,453
USR D3040073708 0.0755m3/s (160 CFM) Exhaust System	1.00	EA	977	0	1,659	0	2,636	932	3,568	1,453
USR D3040073708 0.0755m3/s (160 CFM) Exhaust System	8.00	EA	7,814	0	13,272	0	21,086	7,455	28,541	11,628
USR D3040073709 0.47195m3/s (1000 CFM) Exhaust System	1.00	EA	2,031	0	4,464	0	6,495	2,296	8,792	3,582

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040073709 0.47195m3/s (1000 CFM) Exhaust System	1.00	EA	2,031	0	4,464	0	6,495	2,296	8,792	3,582
USR D3040073709 0.47195m3/s (1000 CFM) Exhaust System	1.00	EA	2,031	0	4,464	0	6,495	2,296	8,792	3,582
USR D3040073709 0.47195m3/s (1000 CFM) Exhaust System	1.00	EA	2,031	0	4,464	0	6,495	2,296	8,792	3,582
USR D3040073709 0.47195m3/s (1000 CFM) Exhaust System	1.00	EA	2,031	0	4,464	0	6,495	2,296	8,792	3,582
USR D3040073709 0.47195m3/s (1000 CFM) Exhaust System	1.00	EA	2,031	0	4,464	0	6,495	2,296	8,792	3,582
USR D3040073709 0.47195m3/s (1000 CFM) Exhaust System	1.00	EA	2,031	0	4,464	0	6,495	2,296	8,792	3,582
USR D3040073710 0.24 m3/s (500 CFM) Exhaust System	1.00	EA	2,811	0	10,407	0	13,218	4,673	17,891	7,289
USR D3040073710 0.24 m3/s (500 CFM) Exhaust System	1.00	EA	2,811	0	10,407	0	13,218	4,673	17,891	7,289
USR D3040073711 1.4158m3/s (3000 CFM) Exhaust System 50.80mm (2") Sp	1.00	EA	22,070	0	9,606	0	31,676	11,199	42,874	17,467
USR D3040073711 1.4158m3/s (3000 CFM) Exhaust System 50.80mm (2") Sp	1.00	EA	22,070	0	9,606	0	31,676	11,199	42,874	17,467
USR D3040073712 1.0382m3/s (2200 CFM) Exhaust System 50.80mm (2") Sp	1.00	EA	19,593	0	11,772	0	31,365	11,089	42,454	17,296
USR D3040073712 1.0382m3/s (2200 CFM) Exhaust System 50.80mm (2") Sp	1.00	EA	19,593	0	11,772	0	31,365	11,089	42,454	17,296
USR D3040073713 6.61 m3/s (14000 CFM) Kitchen Hood Exh Sys W/SS Duct & Make-Up Air	1.00	EA	14,355	0	80,931	0	95,285	33,688	128,974	52,544
USR D3040073714 0.8495m3/s (1800 CFM Serving Lane Exh Sys W/SS Duct & Make-Up Air	1.00	EA	13,884	0	37,280	0	51,165	18,089	69,254	28,214
USR D3040073716 500 CFM Exhaust Fan, Cent	1.00	EA	683	0	1,581	0	2,263	800	3,064	1,248

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040073717 Toilet Exhaust 0.0943m3/s (200 CFM)	1.00	EA	861	0	870	0	1,731	612	2,343	955
D304090 OTHER DISTRIBUTION SYSTEMS	**1.00**	**EA**	**31,878**	**0**	**187,380**	**0**	**219,258**	**77,519**	**296,777**	**120,908**
USR D3040909038 Sound Attenuator, 6.61-8.49 m3/s (14k-18k CFM), 1219.2mm x 1524.00mm x 1524.00mm (48 x 60 x 60)	12.00	EA	9,166	0	79,063	0	88,228	31,193	119,422	48,653
USR D3040909301 HEPA Filter, 0.4720m3/s (1000 CFM), 95% Eff	1.00	EA	1,033	0	2,081	0	3,114	1,101	4,215	1,717
USR D3040909301 HEPA Filter, 0.4720m3/s (1000 CFM), 95% Eff	1.00	EA	1,033	0	2,081	0	3,114	1,101	4,215	1,717
USR D3040909301 HEPA Filter, 0.4720m3/s (1000 CFM), 95% Eff	1.00	EA	1,033	0	2,081	0	3,114	1,101	4,215	1,717
USR D3040909303 0.3539 - 0.5899m3/s (750-1250 CFM) Filter, High Efficiency, 90-95%	1.00	EA	488	0	99	0	587	208	794	324
USR D3040909303 0.3539 - 0.5899m3/s (750-1250 CFM) Filter, High Efficiency, 90-95%	1.00	EA	488	0	99	0	587	208	794	324
USR D3040909303 0.3539 - 0.5899m3/s (750-1250 CFM) Filter, High Efficiency, 90-95%	1.00	EA	488	0	99	0	587	208	794	324
USR D3040909303 0.3539 - 0.5899m3/s (750-1250 CFM) Filter, High Efficiency, 90-95%	1.00	EA	488	0	99	0	587	208	794	324
USR D3040909304 0.7079 - 1.1798m3/s (1500-2500 CFM) Filter, High Efficiency, 90-95%	1.00	EA	488	0	174	0	662	234	896	365
USR D3040909304 0.7079 - 1.1798m3/s (1500-2500 CFM) Filter, High Efficiency, 90-95%	2.00	EA	976	0	348	0	1,324	468	1,792	730
USR D3040909304 0.7079 - 1.1798m3/s (1500-2500 CFM) Filter, High Efficiency, 90-95%	1.00	EA	488	0	174	0	662	234	896	365

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040909304 0.7079 - 1.1798m3/s (1500-2500 CFM) Filter, High Efficiency, 90-95%	1.00	EA	488	0	174	0	662	234	896	365
USR D3040909305 Sound Attenuator, 1.8878 - 2.3597m3/s (4000-5000 CFM) 457.20mm x 914.40mm x 914.40mm (18 X 36 X 36)	1.00	EA	38	0	1,852	0	1,890	668	2,558	1,042
USR D3040909305 Sound Attenuator, 1.8878 - 2.3597m3/s (4000-5000 CFM) 457.20mm x 914.40mm x 914.40mm (18 X 36 X 36)	1.00	EA	38	0	1,852	0	1,890	668	2,558	1,042
USR D3040909306 Sound Attenuator, 2.36 - 2.83m3/s (5000-6000 CFM) 609.60mm x 914.40mm x 914.40mm (24 X 36 X 36)	1.00	EA	40	0	1,852	0	1,892	669	2,561	1,043
USR D3040909306 Sound Attenuator, 2.36 - 2.83m3/s (5000-6000 CFM) 609.60mm x 914.40mm x 914.40mm (24 X 36 X 36)	1.00	EA	40	0	1,852	0	1,892	669	2,561	1,043
USR D3040909307 Sound Attenuator, 2.36 - 2.83m3/s (5000-6000 CFM) 762.00mm x 609.60mm x 1524.00mm (30 X 24 X 60)	1.00	EA	458	0	2,412	0	2,870	1,015	3,884	1,583
USR D3040909307 Sound Attenuator, 2.36 - 2.83m3/s (5000-6000 CFM) 762.00mm x 609.60mm x 1524.00mm (30 X 24 X 60)	1.00	EA	458	0	2,412	0	2,870	1,015	3,884	1,583
USR D3040909307 Sound Attenuator, 2.36 - 2.83m3/s (5000-6000 CFM) 762.00mm x 609.60mm x 1524.00mm (30 X 24 X 60)	1.00	EA	458	0	2,412	0	2,870	1,015	3,884	1,583

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040909307 Sound Attenuator, 2.36 - 2.83m3/s (5000-6000 CFM) 762.00mm x 609.60mm x 1524.00mm (30 X 24 X 60)	1.00	EA	458	0	2,412	0	2,870	1,015	3,884	1,583
USR D3040909308 Sound Attenuator, 2.83 - 3.30m3/s (6000-7000 CFM) 914.40mm x 609.60mm x 1524.00mm (36 X 24 X 60)	1.00	EA	472	0	2,627	0	3,099	1,096	4,194	1,709
USR D3040909308 Sound Attenuator, 2.83 - 3.30m3/s (6000-7000 CFM) 914.40mm x 609.60mm x 1524.00mm (36 X 24 X 60)	1.00	EA	472	0	2,627	0	3,099	1,096	4,194	1,709
USR D3040909308 Sound Attenuator, 2.83 - 3.30m3/s (6000-7000 CFM) 914.40mm x 609.60mm x 1524.00mm (36 X 24 X 60)	1.00	EA	472	0	2,627	0	3,099	1,096	4,194	1,709
USR D3040909308 Sound Attenuator, 2.83 - 3.30m3/s (6000-7000 CFM) 914.40mm x 609.60mm x 1524.00mm (36 X 24 X 60)	1.00	EA	472	0	2,627	0	3,099	1,096	4,194	1,709
USR D3040909308 Sound Attenuator, 2.83 - 3.30m3/s (6000-7000 CFM) 914.40mm x 609.60mm x 1524.00mm (36 X 24 X 60)	1.00	EA	472	0	2,627	0	3,099	1,096	4,194	1,709
USR D3040909308 Sound Attenuator, 2.83 - 3.30m3/s (6000-7000 CFM) 914.40mm x 609.60mm x 1524.00mm (36 X 24 X 60)	1.00	EA	472	0	2,627	0	3,099	1,096	4,194	1,709
USR D3040909309 Sound Attenuator, 3.30 - 3.78m3/s (7000-8000 CFM) 1219.20mm x 609.60mm x 1524.00mm (48 X 24 X 60)	1.00	EA	486	0	2,239	0	2,725	964	3,689	1,503

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040909309 Sound Attenuator, 3.30 - 3.78m3/s (7000-8000 CFM) 1219.20mm x 609.60mm x 1524.00mm (48 X 24 X 60)	1.00	EA	486	0	2,239	0	2,725	964	3,689	1,503
USR D3040909309 Sound Attenuator, 3.30 - 3.78m3/s (7000-8000 CFM) 1219.20mm x 609.60mm x 1524.00mm (48 X 24 X 60)	1.00	EA	486	0	2,239	0	2,725	964	3,689	1,503
USR D3040909309 Sound Attenuator, 3.30 - 3.78m3/s (7000-8000 CFM) 1219.20mm x 609.60mm x 1524.00mm (48 X 24 X 60)	1.00	EA	486	0	2,239	0	2,725	964	3,689	1,503
USR D3040909309 Sound Attenuator, 3.30 - 3.78m3/s (7000-8000 CFM) 1219.20mm x 609.60mm x 1524.00mm (48 X 24 X 60)	1.00	EA	486	0	2,239	0	2,725	964	3,689	1,503
USR D3040909310 Sound Attenuator, 3.78 - 4.25m3/s (8000-9000 CFM) 914.40mm x 914.40mm x 1524.00mm (36 X 36 X 60)	1.00	EA	486	0	2,842	0	3,328	1,177	4,505	1,835
USR D3040909310 Sound Attenuator, 3.78 - 4.25m3/s (8000-9000 CFM) 914.40mm x 914.40mm x 1524.00mm (36 X 36 X 60)	1.00	EA	486	0	2,842	0	3,328	1,177	4,505	1,835
USR D3040909310 Sound Attenuator, 3.78 - 4.25m3/s (8000-9000 CFM) 914.40mm x 914.40mm x 1524.00mm (36 X 36 X 60)	1.00	EA	486	0	2,842	0	3,328	1,177	4,505	1,835
USR D3040909310 Sound Attenuator, 3.78 - 4.25m3/s (8000-9000 CFM) 914.40mm x 914.40mm x 1524.00mm (36 X 36 X 60)	1.00	EA	486	0	2,842	0	3,328	1,177	4,505	1,835

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040909310 Sound Attenuator, 3.78 - 4.25m3/s (8000-9000 CFM) 914.40mm x 914.40mm x 1524.00mm (36 X 36 X 60)	1.00	EA	486	0	2,842	0	3,328	1,177	4,505	1,835
USR D3040909310 Sound Attenuator, 3.78 - 4.25m3/s (8000-9000 CFM) 914.40mm x 914.40mm x 1524.00mm (36 X 36 X 60)	1.00	EA	486	0	2,842	0	3,328	1,177	4,505	1,835
USR D3040909311 Sound Attenuator, 4.25 - 5.19m3/s (9000-11000 CFM) 914.40mm x 1219.20mm x 1524.00mm (36 X 48 X 60)	1.00	EA	517	0	3,746	0	4,264	1,507	5,771	2,351
USR D3040909311 Sound Attenuator, 4.25 - 5.19m3/s (9000-11000 CFM) 914.40mm x 1219.20mm x 1524.00mm (36 X 48 X 60)	1.00	EA	517	0	3,746	0	4,264	1,507	5,771	2,351
USR D3040909311 Sound Attenuator, 4.25 - 5.19m3/s (9000-11000 CFM) 914.40mm x 1219.20mm x 1524.00mm (36 X 48 X 60)	1.00	EA	517	0	3,746	0	4,264	1,507	5,771	2,351
USR D3040909311 Sound Attenuator, 4.25 - 5.19m3/s (9000-11000 CFM) 914.40mm x 1219.20mm x 1524.00mm (36 X 48 X 60)	1.00	EA	517	0	3,746	0	4,264	1,507	5,771	2,351
USR D3040909311 Sound Attenuator, 4.25 - 5.19m3/s (9000-11000 CFM) 914.40mm x 1219.20mm x 1524.00mm (36 X 48 X 60)	1.00	EA	517	0	3,746	0	4,264	1,507	5,771	2,351
USR D3040909312 Sound Attenuator, 5.19 - 6.61m3/s (11000-14000 CFM) 1219.20mm x 1219.20mm x 1524.00mm (48 X 48 X 60)	1.00	EA	617	0	5,254	0	5,871	2,076	7,946	3,237

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040909312 Sound Attenuator, 5.19 - 6.61m3/s (11000-14000 CFM) 1219.20mm x 1219.20mm x 1524.00mm (48 X 48 X 60)	1.00	EA	617	0	5,254	0	5,871	2,076	7,946	3,237
USR D3040909312 Sound Attenuator, 5.19 - 6.61m3/s (11000-14000 CFM) 1219.20mm x 1219.20mm x 1524.00mm (48 X 48 X 60)	1.00	EA	617	0	5,254	0	5,871	2,076	7,946	3,237
USR D3040909312 Sound Attenuator, 5.19 - 6.61m3/s (11000-14000 CFM) 1219.20mm x 1219.20mm x 1524.00mm (48 X 48 X 60)	1.00	EA	617	0	5,254	0	5,871	2,076	7,946	3,237
D304095 RENOVATE DISTRIBUTION SYSTEMS	**1.00**	**EA**	**4,066**	**0**	**4,306**	**0**	**8,372**	**2,960**	**11,332**	**4,617**
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	2.00	EA	163	0	172	0	335	118	453	185
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	2.00	EA	163	0	172	0	335	118	453	185
USR D3040959220 Fire Damper	3.00	EA	244	0	258	0	502	178	680	277
USR D3040959220 Fire Damper	2.00	EA	163	0	172	0	335	118	453	185
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	5.00	EA	407	0	431	0	837	296	1,133	462
USR D3040959220 Fire Damper	2.00	EA	163	0	172	0	335	118	453	185
USR D3040959220 Fire Damper	3.00	EA	244	0	258	0	502	178	680	277
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3040959220 Fire Damper	11.00	EA	894	0	947	0	1,842	651	2,493	1,016
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	4.00	EA	325	0	345	0	670	237	907	369
USR D3040959220 Fire Damper	2.00	EA	163	0	172	0	335	118	453	185
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
USR D3040959220 Fire Damper	1.00	EA	81	0	86	0	167	59	227	92
D3050 TERMINAL & PACKAGE UNITS	**1.00**	**EA**	**478**	**0**	**3,273**	**0**	**3,751**	**1,326**	**5,077**	**2,069**
D305006 PACKAGE UNITS	**1.00**	**EA**	**478**	**0**	**3,273**	**0**	**3,751**	**1,326**	**5,077**	**2,069**
USR D3050063601 8 Ton Computer Room A.C., Chilled Water	1.00	EA	478	0	3,273	0	3,751	1,326	5,077	2,069
D3060 CONTROLS & INSTRUMENTATION	**1.00**	**EA**	**255,845**	**0**	**551,599**	**35,488**	**842,932**	**298,019**	**1,140,950**	**464,825**
D306001 HVAC CONTROLS	**1.00**	**EA**	**251,534**	**0**	**531,150**	**35,488**	**818,171**	**289,264**	**1,107,435**	**451,171**
USR D3060010183 Controls For Exhaust Fan	4.00	EA	905	0	4,489	0	5,394	1,907	7,301	2,974
USR D3060011102 Controls, Commercial HVAC Systems	1.00	EA	18,670	0	33,455	3,794	55,919	19,770	75,689	30,836
USR D3060011105 Controls, Boilers and Pumps	1.00	EA	1,121	0	1,643	0	2,764	977	3,741	1,524
USR D3060011108 Controls, Chillers and Pumps	1.00	EA	3,424	0	4,514	0	7,938	2,807	10,745	4,377
USR D3060013101 Controls For AHU W/Hot & Cold Deck, Vav's & Vent Fans	1.00	EA	18,665	0	37,153	2,881	58,699	20,753	79,452	32,369
USR D3060013101 Controls For AHU W/Hot & Cold Deck, Vav's & Vent Fans	1.00	EA	18,665	0	37,153	2,881	58,699	20,753	79,452	32,369

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3060013101 Controls For AHU W/Hot & Cold Deck, Vav's & Vent Fans	1.00	EA	18,665	0	37,153	2,881	58,699	20,753	79,452	32,369
USR D3060013101 Controls For AHU W/Hot & Cold Deck, Vav's & Vent Fans	1.00	EA	18,665	0	37,153	2,881	58,699	20,753	79,452	32,369
USR D3060013101 Controls For AHU W/Hot & Cold Deck, Vav's & Vent Fans	1.00	EA	18,665	0	37,153	2,881	58,699	20,753	79,452	32,369
USR D3060013101 Controls For AHU W/Hot & Cold Deck, Vav's & Vent Fans	1.00	EA	18,665	0	37,153	2,881	58,699	20,753	79,452	32,369
USR D3060013101 Controls For AHU W/Hot & Cold Deck, Vav's & Vent Fans	1.00	EA	18,665	0	37,153	2,881	58,699	20,753	79,452	32,369
USR D3060013101 Controls For AHU W/Hot & Cold Deck, Vav's & Vent Fans	1.00	EA	18,665	0	37,153	2,881	58,699	20,753	79,452	32,369
USR D3060013101 Controls For AHU W/Hot & Cold Deck, Vav's & Vent Fans	1.00	EA	18,665	0	37,153	2,881	58,699	20,753	79,452	32,369
USR D3060013101 Controls For AHU W/Hot & Cold Deck, Vav's & Vent Fans	1.00	EA	18,665	0	37,153	2,881	58,699	20,753	79,452	32,369
USR D3060013102 Controls For Surgery/Delivery Room Vav	1.00	EA	4,072	0	7,357	0	11,429	4,041	15,469	6,302
USR D3060013102 Controls For Surgery/Delivery Room Vav	1.00	EA	4,072	0	7,357	0	11,429	4,041	15,469	6,302
USR D3060013102 Controls For Surgery/Delivery Room Vav	1.00	EA	4,072	0	7,357	0	11,429	4,041	15,469	6,302
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	2.00	EA	480	0	3,061	0	3,541	1,252	4,793	1,953
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	4.00	EA	960	0	6,122	0	7,082	2,504	9,586	3,905
USR D3060013103 Controls For Variable Volume Terminal Units	2.00	EA	480	0	3,061	0	3,541	1,252	4,793	1,953
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	5.00	EA	1,200	0	7,652	0	8,852	3,130	11,982	4,882
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	2.00	EA	480	0	3,061	0	3,541	1,252	4,793	1,953
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013103 Controls For Variable Volume Terminal Units	1.00	EA	240	0	1,530	0	1,770	626	2,396	976
USR D3060013104 Controls Ventilating Fans	1.00	EA	586	0	1,914	0	2,500	884	3,384	1,379
USR D3060013104 Controls Ventilating Fans	2.00	EA	1,172	0	3,829	0	5,000	1,768	6,768	2,757
USR D3060013105 Controls Unit Heater	2.00	EA	210	0	44	0	254	90	344	140
D306004 INSTRUMENT AIR COMPRESSORS	**1.00**	**EA**	**4,312**	**0**	**20,450**	**0**	**24,761**	**8,754**	**33,515**	**13,654**
USR D3060040303 Pneumatic System For Controls	1.00	EA	4,312	0	20,450	0	24,761	8,754	33,515	13,654
D3070 SYSTEMS TESTING & BALANCING	**1.00**	**EA**	**0**	**0**	**0**	**59,845**	**59,845**	**21,158**	**81,003**	**33,001**
D307001 WATER SIDE TESTING & BALANCING - HEATING & COOLING	**1.00**	**EA**	**0**	**0**	**0**	**6,193**	**6,193**	**2,189**	**8,382**	**3,415**
USR D3070013101 Water, Test & Balance Water Main Balancing Valves	1.00	EA	0	0	0	138	138	49	186	76
USR D3070013102 Water, Test & Balance Boiler	1.00	EA	0	0	0	644	644	228	871	355
USR D3070013104 Water, Test & Balance Cabinet Unit Heater/Convector	1.00	EA	0	0	0	110	110	39	149	61
USR D3070013104 Water, Test & Balance Cabinet Unit Heater/Convector	1.00	EA	0	0	0	110	110	39	149	61

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3070013104 Water, Test & Balance Cabinet Unit Heater/Convector	1.00	EA	0	0	0	110	110	39	149	61
USR D3070013104 Water, Test & Balance Cabinet Unit Heater/Convector	1.00	EA	0	0	0	110	110	39	149	61
USR D3070013104 Water, Test & Balance Cabinet Unit Heater/Convector	1.00	EA	0	0	0	110	110	39	149	61
USR D3070013104 Water, Test & Balance Cabinet Unit Heater/Convector	1.00	EA	0	0	0	110	110	39	149	61
USR D3070013104 Water, Test & Balance Cabinet Unit Heater/Convector	1.00	EA	0	0	0	110	110	39	149	61
USR D3070013105 Water, Test & Balance Chiller	1.00	EA	0	0	0	519	519	183	702	286
USR D3070013107 Water, Test & Balance Fan Coil, Fin Tube	1.00	EA	0	0	0	183	183	65	247	101
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	4.00	EA	0	0	0	450	450	159	609	248
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	2.00	EA	0	0	0	225	225	80	305	124
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013108 Water, Test & Balance Main/Duct Coils	1.00	EA	0	0	0	113	113	40	152	62
USR D3070013109 Water, Test & Balance Pump	4.00	EA	0	0	0	1,070	1,070	378	1,448	590
USR D3070013110 Water, Test & Balance Unit Heater	2.00	EA	0	0	0	170	170	60	230	94
D307002 AIR SIDE TESTING & BALANCING - HEATING, COOLING & EXHAUST	**1.00**	**EA**	**0**	**0**	**0**	**53,653**	**53,653**	**18,969**	**72,621**	**29,586**
USR D3070023201 Test & Balance Cent Fan/Utility Set	1.00	EA	0	0	0	344	344	122	465	190
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023202 Test & Balance H&V Unit/In Line Fan	7.00	EA	0	0	0	5,513	5,513	1,949	7,461	3,040
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023202 Test & Balance H&V Unit/In Line Fan	1.00	EA	0	0	0	788	788	278	1,066	434
USR D3070023203 Test & Balance Propeller/Wall Fan	1.00	EA	0	0	0	149	149	53	201	82
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023204 Test & Balance Roof Exhaust Fan	1.00	EA	0	0	0	229	229	81	310	126
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023207 Test & Balance Air Handler, High Pressure	1.00	EA	0	0	0	1,225	1,225	433	1,658	676
USR D3070023208 Test & Balance Package A.C. Unit	1.00	EA	0	0	0	438	438	155	592	241
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	2.00	EA	0	0	0	210	210	74	284	116

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3070023211 Test & Balance Vav Box	2.00	EA	0	0	0	210	210	74	284	116
USR D3070023211 Test & Balance Vav Box	2.00	EA	0	0	0	210	210	74	284	116
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	4.00	EA	0	0	0	420	420	148	568	232
USR D3070023211 Test & Balance Vav Box	2.00	EA	0	0	0	210	210	74	284	116
USR D3070023211 Test & Balance Vav Box	2.00	EA	0	0	0	210	210	74	284	116
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	5.00	EA	0	0	0	525	525	186	711	290
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	2.00	EA	0	0	0	210	210	74	284	116
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58
USR D3070023211 Test & Balance Vav Box	1.00	EA	0	0	0	105	105	37	142	58

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3070023212 Test & Balance Register Average Ceiling Height	6.00	EA	0	0	0	413	413	146	558	227
USR D3070023212 Test & Balance Register Average Ceiling Height	6.00	EA	0	0	0	413	413	146	558	227
USR D3070023212 Test & Balance Register Average Ceiling Height	1.00	EA	0	0	0	69	69	24	93	38
USR D3070023212 Test & Balance Register Average Ceiling Height	2.00	EA	0	0	0	138	138	49	186	76
USR D3070023212 Test & Balance Register Average Ceiling Height	5.00	EA	0	0	0	344	344	122	465	190
USR D3070023212 Test & Balance Register Average Ceiling Height	8.00	EA	0	0	0	550	550	194	744	303
USR D3070023212 Test & Balance Register Average Ceiling Height	12.00	EA	0	0	0	825	825	292	1,117	455
USR D3070023212 Test & Balance Register Average Ceiling Height	11.00	EA	0	0	0	756	756	267	1,024	417
USR D3070023212 Test & Balance Register Average Ceiling Height	6.00	EA	0	0	0	413	413	146	558	227
USR D3070023212 Test & Balance Register Average Ceiling Height	3.00	EA	0	0	0	206	206	73	279	114
USR D3070023212 Test & Balance Register Average Ceiling Height	3.00	EA	0	0	0	206	206	73	279	114
USR D3070023212 Test & Balance Register Average Ceiling Height	4.00	EA	0	0	0	275	275	97	372	152

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3070023212 Test & Balance Register Average Ceiling Height	25.00	EA	0	0	0	1,719	1,719	608	2,326	948
USR D3070023212 Test & Balance Register Average Ceiling Height	9.00	EA	0	0	0	619	619	219	838	341
USR D3070023212 Test & Balance Register Average Ceiling Height	10.00	EA	0	0	0	688	688	243	931	379
USR D3070023212 Test & Balance Register Average Ceiling Height	2.00	EA	0	0	0	138	138	49	186	76
USR D3070023212 Test & Balance Register Average Ceiling Height	11.00	EA	0	0	0	756	756	267	1,024	417
USR D3070023212 Test & Balance Register Average Ceiling Height	1.00	EA	0	0	0	69	69	24	93	38
USR D3070023212 Test & Balance Register Average Ceiling Height	3.00	EA	0	0	0	206	206	73	279	114
USR D3070023212 Test & Balance Register Average Ceiling Height	4.00	EA	0	0	0	275	275	97	372	152
USR D3070023212 Test & Balance Register Average Ceiling Height	9.00	EA	0	0	0	619	619	219	838	341
USR D3070023212 Test & Balance Register Average Ceiling Height	1.00	EA	0	0	0	69	69	24	93	38
USR D3070023212 Test & Balance Register Average Ceiling Height	1.00	EA	0	0	0	69	69	24	93	38
USR D3070023214 Test & Balance Linear Diffuser	1.00	EA	0	0	0	263	263	93	355	145
USR D3070023214 Test & Balance Linear Diffuser	1.00	EA	0	0	0	263	263	93	355	145

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D3070023214 Test & Balance Linear Diffuser	1.00	EA	0	0	0	263	263	93	355	145
USR D3070023214 Test & Balance Linear Diffuser	2.00	EA	0	0	0	525	525	186	711	290
USR D3070023214 Test & Balance Linear Diffuser	10.00	EA	0	0	0	2,625	2,625	928	3,553	1,448
USR D3070023214 Test & Balance Linear Diffuser	1.00	EA	0	0	0	263	263	93	355	145
USR D3070023214 Test & Balance Linear Diffuser	1.00	EA	0	0	0	263	263	93	355	145
USR D3070023214 Test & Balance Linear Diffuser	2.00	EA	0	0	0	525	525	186	711	290
USR D3070023214 Test & Balance Linear Diffuser	1.00	EA	0	0	0	263	263	93	355	145
D40 FIRE PROTECTION	**1.00**	**EA**	**145,820**	**327**	**189,532**	**0**	**335,678**	**118,679**	**454,357**	**185,106**
D4010 FIRE ALARM AND DETECTION SYSTEMS	**1.00**	**EA**	**28,410**	**0**	**19,318**	**0**	**47,728**	**16,874**	**64,602**	**26,319**
D401001 FIRE ALARM DISTRIBUTION	**1.00**	**EA**	**28,410**	**0**	**19,318**	**0**	**47,728**	**16,874**	**64,602**	**26,319**
USR D4010010102 Fire Alarm System - Rate Of Rise Heat Detectors	21.00	EA	18,260	0	6,567	0	24,827	8,778	33,604	13,690
USR D4010010104 Fire Alarm Duct Smoke Detector	2.00	EA	1,791	0	1,409	0	3,200	1,131	4,331	1,764
USR D4010010114 16 Zone FACP And Remote Annunciator	1.00	EA	4,121	0	5,555	0	9,677	3,421	13,098	5,336
USR D4010010119 16 Zone FACP, Annun And Transmitter	1.00	EA	4,237	0	5,788	0	10,025	3,544	13,569	5,528
D4020 FIRE SUPPRESSION WATER SUPPLY AND EQUIPMENT	**1.00**	**EA**	**12,149**	**92**	**48,219**	**0**	**60,460**	**21,376**	**81,836**	**33,340**
D402001 FIRE PROTECTION WATER PIPING AND EQUIPMENT	**1.00**	**EA**	**12,149**	**92**	**48,219**	**0**	**60,460**	**21,376**	**81,836**	**33,340**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D4020010102 Fire Protection Wtr Supply, Ord Hazard Fac 152.40mm (6" Pipe)	174.00	EA	12,149	92	48,219	0	60,460	21,376	81,836	33,340
D4040 SPRINKLERS	**1.00**	**EA**	**105,062**	**235**	**121,766**	**0**	**227,064**	**80,278**	**307,342**	**125,212**
D404001 SPRINKLERS AND RELEASING DEVICES	**1.00**	**EA**	**105,062**	**235**	**121,766**	**0**	**227,064**	**80,278**	**307,342**	**125,212**
USR D4040010102 Concealed Sprinkler Heads, Pipes & Fittings - Ord. Haz.	174.00	EA	105,062	235	121,766	0	227,064	80,278	307,342	125,212
D4050 FIRE PROTECTION SPECIALTIES	**1.00**	**EA**	**198**	**0**	**228**	**0**	**426**	**151**	**577**	**235**
D405001 PORTABLE EXTINGUISHERS	**1.00**	**EA**	**198**	**0**	**228**	**0**	**426**	**151**	**577**	**235**
USR D4050010101 5 Pound All Purpose ABC Type Fire Extinguishers	5.00	EA	198	0	228	0	426	151	577	235
D50 ELECTRICAL	**1.00**	**EA**	**707,401**	**0**	**510,231**	**14,352**	**1,231,983**	**435,568**	**1,667,551**	**679,364**
D5010 ELECTRICAL SERVICE & DISTRIBUTION	**1.00**	**EA**	**10,935**	**0**	**13,462**	**0**	**24,396**	**8,625**	**33,022**	**13,453**
D501001 MAIN & SECONDARY TRANSFORMERS	**1.00**	**EA**	**19**	**0**	**26**	**0**	**45**	**16**	**61**	**25**
USR D5010010271 Underground 125 Amp Secondary	1.00	EA	19	0	26	0	45	16	61	25
D501004 SWITCHBOARDS & PANELBOARDS	**1.00**	**EA**	**10,916**	**0**	**13,436**	**0**	**24,351**	**8,609**	**32,961**	**13,428**
USR D5010040581 Panel board 120/208V 100A Mlo 24 Cir W/Bkr	1.00	EA	2,911	0	2,727	0	5,638	1,993	7,632	3,109
USR D5010040582 Panel board 120/208V 225A Mlo 36 Cir W/Bkr	1.00	EA	4,493	0	5,114	0	9,607	3,397	13,004	5,298
USR D5010040590 Panel board 277/480V 100A Mlo 24 Cir W/Bkr	1.00	EA	3,511	0	5,595	0	9,106	3,219	12,325	5,021

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
D5020 LIGHTING & BRANCH WIRING	**1.00**	**EA**	**569,176**	**0**	**380,390**	**0**	**949,566**	**335,719**	**1,285,285**	**523,627**
D502001 BRANCH WIRING	**1.00**	**EA**	**251,434**	**0**	**150,883**	**0**	**402,317**	**142,239**	**544,556**	**221,853**
USR D5020010101 120 Volt, 20 Amp Duplex Receptacle - Stud Partition	3.00	EA	1,301	0	554	0	1,855	656	2,511	1,023
USR D5020010101 120 Volt, 20 Amp Duplex Receptacle - Stud Partition	4.00	EA	1,735	0	739	0	2,474	875	3,348	1,364
USR D5020010101 120 Volt, 20 Amp Duplex Receptacle - Stud Partition	1.00	EA	434	0	185	0	618	219	837	341
USR D5020010101 120 Volt, 20 Amp Duplex Receptacle - Stud Partition	7.00	EA	3,036	0	1,293	0	4,329	1,531	5,860	2,387
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	16.00	EA	6,729	0	2,881	0	9,611	3,398	13,009	5,300
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	10.00	EA	4,206	0	1,801	0	6,007	2,124	8,130	3,312
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	7.00	EA	2,944	0	1,261	0	4,205	1,487	5,691	2,319
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	8.00	EA	3,365	0	1,441	0	4,805	1,699	6,504	2,650
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	15.00	EA	6,309	0	2,701	0	9,010	3,185	12,195	4,968
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	30.00	EA	12,617	0	5,403	0	18,020	6,371	24,391	9,937
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	15.00	EA	6,309	0	2,701	0	9,010	3,185	12,195	4,968

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	10.00	EA	4,206	0	1,801	0	6,007	2,124	8,130	3,312
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	8.00	EA	3,365	0	1,441	0	4,805	1,699	6,504	2,650
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	4.00	EA	1,682	0	720	0	2,403	849	3,252	1,325
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	4.00	EA	1,682	0	720	0	2,403	849	3,252	1,325
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	8.00	EA	3,365	0	1,441	0	4,805	1,699	6,504	2,650
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	1.00	EA	421	0	180	0	601	212	813	331
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	47.00	EA	19,767	0	8,464	0	28,231	9,981	38,213	15,568
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	11.00	EA	4,626	0	1,981	0	6,607	2,336	8,943	3,644
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	14.00	EA	5,888	0	2,521	0	8,409	2,973	11,382	4,637
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	3.00	EA	1,262	0	540	0	1,802	637	2,439	994
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	18.00	EA	7,570	0	3,242	0	10,812	3,823	14,635	5,962
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	1.00	EA	421	0	180	0	601	212	813	331

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	6.00	EA	2,523	0	1,081	0	3,604	1,274	4,878	1,987
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	7.00	EA	2,944	0	1,261	0	4,205	1,487	5,691	2,319
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	21.00	EA	8,832	0	3,782	0	12,614	4,460	17,074	6,956
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	16.00	EA	6,729	0	2,881	0	9,611	3,398	13,009	5,300
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	2.00	EA	841	0	360	0	1,201	425	1,626	662
USR D5020010102 120 Volt, 20 Amp Duplex Receptacle - Masonry Partition	1.00	EA	421	0	180	0	601	212	813	331
USR D5020010103 Duplex Receptacle Long Run	3.00	EA	2,457	0	1,116	0	3,573	1,263	4,836	1,970
USR D5020010103 Duplex Receptacle Long Run	1.00	EA	819	0	372	0	1,191	421	1,612	657
USR D5020010103 Duplex Receptacle Long Run	2.00	EA	1,638	0	744	0	2,382	842	3,224	1,313
USR D5020010103 Duplex Receptacle Long Run	2.00	EA	1,638	0	744	0	2,382	842	3,224	1,313
USR D5020010103 Duplex Receptacle Long Run	5.00	EA	4,095	0	1,860	0	5,954	2,105	8,059	3,283
USR D5020010103 Duplex Receptacle Long Run	2.00	EA	1,638	0	744	0	2,382	842	3,224	1,313
USR D5020010103 Duplex Receptacle Long Run	1.00	EA	819	0	372	0	1,191	421	1,612	657
USR D5020010103 Duplex Receptacle Long Run	4.00	EA	3,276	0	1,488	0	4,763	1,684	6,448	2,627
USR D5020010103 Duplex Receptacle Long Run	2.00	EA	1,638	0	744	0	2,382	842	3,224	1,313

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020010103 Duplex Receptacle Long Run	2.00	EA	1,638	0	744	0	2,382	842	3,224	1,313
USR D5020010103 Duplex Receptacle Long Run	1.00	EA	819	0	372	0	1,191	421	1,612	657
USR D5020010103 Duplex Receptacle Long Run	3.00	EA	2,457	0	1,116	0	3,573	1,263	4,836	1,970
USR D5020010103 Duplex Receptacle Long Run	1.00	EA	819	0	372	0	1,191	421	1,612	657
USR D5020010103 Duplex Receptacle Long Run	1.00	EA	819	0	372	0	1,191	421	1,612	657
USR D5020010103 Duplex Receptacle Long Run	1.00	EA	819	0	372	0	1,191	421	1,612	657
USR D5020010103 Duplex Receptacle Long Run	5.00	EA	4,095	0	1,860	0	5,954	2,105	8,059	3,283
USR D5020010103 Duplex Receptacle Long Run	1.00	EA	819	0	372	0	1,191	421	1,612	657
USR D5020010104 120 Volt Surge Suppression Receptacle	1.00	EA	434	0	242	0	675	239	914	372
USR D5020010104 120 Volt Surge Suppression Receptacle	1.00	EA	434	0	242	0	675	239	914	372
USR D5020010104 120 Volt Surge Suppression Receptacle	1.00	EA	434	0	242	0	675	239	914	372
USR D5020010104 120 Volt Surge Suppression Receptacle	1.00	EA	434	0	242	0	675	239	914	372
USR D5020010104 120 Volt Surge Suppression Receptacle	1.00	EA	434	0	242	0	675	239	914	372
USR D5020010106 120 Volt, 15 Amp Duplex Ground Fault Receptacle	6.00	EA	2,602	0	1,168	0	3,771	1,333	5,104	2,079
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	1.00	EA	421	0	190	0	611	216	827	337
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	1.00	EA	421	0	190	0	611	216	827	337

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	2.00	EA	841	0	380	0	1,221	432	1,653	673
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	1.00	EA	421	0	190	0	611	216	827	337
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	1.00	EA	421	0	190	0	611	216	827	337
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	1.00	EA	421	0	190	0	611	216	827	337
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	1.00	EA	421	0	190	0	611	216	827	337
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	3.00	EA	1,262	0	570	0	1,832	648	2,480	1,010
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	3.00	EA	1,262	0	570	0	1,832	648	2,480	1,010
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	1.00	EA	421	0	190	0	611	216	827	337
USR D5020010108 Duplex GFI Receptacle Long Run	1.00	EA	819	0	382	0	1,201	425	1,625	662
USR D5020010108 Duplex GFI Receptacle Long Run	1.00	EA	819	0	382	0	1,201	425	1,625	662
USR D5020010111 120 Volt, 20 Amp Duplex Floor Mounted Receptacle	1.00	EA	511	0	414	0	925	327	1,252	510
USR D5020010111 120 Volt, 20 Amp Duplex Floor Mounted Receptacle	1.00	EA	511	0	414	0	925	327	1,252	510
USR D5020010116 120 Volt, 30 Amp Twistlock Receptacle	6.00	EA	3,848	0	1,070	0	4,918	1,739	6,657	2,712

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020010117 Receptacle Plug Mold	0.47	LF	9	0	11	0	20	7	26	11
USR D5020010117 Receptacle Plug Mold	0.67	LF	13	0	15	0	28	10	38	15
USR D5020010117 Receptacle Plug Mold	2.21	LF	42	0	50	0	92	33	125	51
USR D5020010121 230 Volt, 30 Amp Receptacle - Stud Partition	5.00	EA	4,894	0	1,936	0	6,830	2,415	9,245	3,767
USR D5020010122 230 Volt, 30 Amp Receptacle - Masonry Partition	2.00	EA	1,931	0	765	0	2,697	953	3,650	1,487
USR D5020010122 230 Volt, 30 Amp Receptacle - Masonry Partition	1.00	EA	966	0	383	0	1,348	477	1,825	744
USR D5020010122 230 Volt, 30 Amp Receptacle - Masonry Partition	5.00	EA	4,828	0	1,913	0	6,742	2,383	9,125	3,718
USR D5020010129 400A 4 Pole W/P Generator Receptacle	1.00	EA	8,118	0	17,615	0	25,733	9,098	34,831	14,190
USR D5020010136 Equipment Connections For Up To 5 HP	1.00	EA	1,227	0	522	0	1,749	618	2,368	965
USR D5020010136 Equipment Connections For Up To 5 HP	2.00	EA	2,454	0	1,045	0	3,499	1,237	4,735	1,929
USR D5020010136 Equipment Connections For Up To 5 HP	1.00	EA	1,227	0	522	0	1,749	618	2,368	965
USR D5020010136 Equipment Connections For Up To 5 HP	1.00	EA	1,227	0	522	0	1,749	618	2,368	965
USR D5020010136 Equipment Connections For Up To 5 HP	3.00	EA	3,681	0	1,567	0	5,248	1,855	7,103	2,894
USR D5020010137 Equipment Connections For Up To 10 HP	1.00	EA	1,427	0	795	0	2,221	785	3,007	1,225
USR D5020010137 Equipment Connections For Up To 10 HP	1.00	EA	1,427	0	795	0	2,221	785	3,007	1,225
USR D5020010137 Equipment Connections For Up To 10 HP	1.00	EA	1,427	0	795	0	2,221	785	3,007	1,225

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020010137 Equipment Connections For Up To 10 HP	1.00	EA	1,427	0	795	0	2,221	785	3,007	1,225
USR D5020010137 Equipment Connections For Up To 10 HP	1.00	EA	1,427	0	795	0	2,221	785	3,007	1,225
USR D5020010137 Equipment Connections For Up To 10 HP	8.00	EA	11,414	0	6,357	0	17,771	6,283	24,054	9,800
USR D5020010137 Equipment Connections For Up To 10 HP	1.00	EA	1,427	0	795	0	2,221	785	3,007	1,225
USR D5020010137 Equipment Connections For Up To 10 HP	1.00	EA	1,427	0	795	0	2,221	785	3,007	1,225
USR D5020010139 480 Volt Equipment Connections For Motors - 30 T0 40 HP	1.00	EA	1,514	0	1,042	0	2,557	904	3,461	1,410
USR D5020010139 480 Volt Equipment Connections For Motors - 30 T0 40 HP	1.00	EA	1,514	0	1,042	0	2,557	904	3,461	1,410
USR D5020010139 480 Volt Equipment Connections For Motors - 30 T0 40 HP	1.00	EA	1,514	0	1,042	0	2,557	904	3,461	1,410
USR D5020010139 480 Volt Equipment Connections For Motors - 30 T0 40 HP	1.00	EA	1,514	0	1,042	0	2,557	904	3,461	1,410
USR D5020010139 480 Volt Equipment Connections For Motors - 30 T0 40 HP	1.00	EA	1,514	0	1,042	0	2,557	904	3,461	1,410
USR D5020010140 Equipment Connection 44.76 To 74.60kW (60 -100 HP)	1.00	EA	3,809	0	4,924	0	8,733	3,087	11,820	4,816
USR D5020010141 One Bed Prefab Bedside Patient Unit w/Conduit & Wire	1.00	EA	3,083	0	20,651	0	23,733	8,391	32,124	13,087
USR D5020010156 120 Volt 20 Amp Single Pole Switch	1.00	EA	427	0	187	0	614	217	831	339
USR D5020010156 120 Volt 20 Amp Single Pole Switch	1.00	EA	427	0	187	0	614	217	831	339

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020010156 120 Volt 20 Amp Single Pole Switch	1.00	EA	427	0	187	0	614	217	831	339
USR D5020010156 120 Volt 20 Amp Single Pole Switch	1.00	EA	427	0	187	0	614	217	831	339
USR D5020010156 120 Volt 20 Amp Single Pole Switch	1.00	EA	427	0	187	0	614	217	831	339
USR D5020010156 120 Volt 20 Amp Single Pole Switch	3.00	EA	1,282	0	560	0	1,842	651	2,494	1,016
USR D5020010156 120 Volt 20 Amp Single Pole Switch	5.00	EA	2,137	0	934	0	3,071	1,086	4,156	1,693
USR D5020010156 120 Volt 20 Amp Single Pole Switch	1.00	EA	427	0	187	0	614	217	831	339
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323
USR D5020010158 Thermal Motor Switch	1.00	EA	397	0	188	0	585	207	792	323

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020010171 7 Day Time Clock	1.00	EA	634	0	386	0	1,020	361	1,381	563
USR D5020010172 30A 3 Pole Lighting Contactor	1.00	EA	553	0	850	0	1,403	496	1,899	774
D502002 LIGHTING EQUIPMENT	**1.00**	**EA**	**315,878**	**0**	**228,721**	**0**	**544,600**	**192,543**	**737,143**	**300,314**
USR D5020020201 Four Foot Strip Fluorescent Fixture	1.00	EA	492	0	320	0	812	287	1,099	448
USR D5020020201 Four Foot Strip Fluorescent Fixture	1.00	EA	492	0	320	0	812	287	1,099	448
USR D5020020201 Four Foot Strip Fluorescent Fixture	1.00	EA	492	0	320	0	812	287	1,099	448
USR D5020020201 Four Foot Strip Fluorescent Fixture	1.00	EA	492	0	320	0	812	287	1,099	448
USR D5020020201 Four Foot Strip Fluorescent Fixture	3.00	EA	1,475	0	960	0	2,435	861	3,296	1,343
USR D5020020201 Four Foot Strip Fluorescent Fixture	1.00	EA	492	0	320	0	812	287	1,099	448
USR D5020020201 Four Foot Strip Fluorescent Fixture	1.00	EA	492	0	320	0	812	287	1,099	448
USR D5020020201 Four Foot Strip Fluorescent Fixture	1.00	EA	492	0	320	0	812	287	1,099	448
USR D5020020201 Four Foot Strip Fluorescent Fixture	120.00	EA	59,003	0	38,387	0	97,390	34,432	131,822	53,705
USR D5020020201 Four Foot Strip Fluorescent Fixture	1.00	EA	492	0	320	0	812	287	1,099	448
USR D5020020201 Four Foot Strip Fluorescent Fixture	1.00	EA	492	0	320	0	812	287	1,099	448
USR D5020020202 2' X 4' Lay-In Fluorescent Fixture	5.00	EA	2,882	0	1,416	0	4,297	1,519	5,817	2,370
USR D5020020202 2' X 4' Lay-In Fluorescent Fixture	6.00	EA	3,458	0	1,699	0	5,157	1,823	6,980	2,844
USR D5020020202 2' X 4' Lay-In Fluorescent Fixture	2.00	EA	1,153	0	566	0	1,719	608	2,327	948

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020202 2' X 4' Lay-In Fluorescent Fixture	9.00	EA	5,187	0	2,548	0	7,735	2,735	10,470	4,266
USR D5020020202 2' X 4' Lay-In Fluorescent Fixture	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	5.00	EA	2,882	0	1,416	0	4,297	1,519	5,817	2,370
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	2.00	EA	1,153	0	566	0	1,719	608	2,327	948
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	8.00	EA	4,611	0	2,265	0	6,876	2,431	9,307	3,792
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	5.00	EA	2,882	0	1,416	0	4,297	1,519	5,817	2,370
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	7.00	EA	4,035	0	1,982	0	6,016	2,127	8,143	3,318
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	12.00	EA	6,916	0	3,397	0	10,314	3,646	13,960	5,687
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	6.00	EA	3,458	0	1,699	0	5,157	1,823	6,980	2,844
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	6.00	EA	3,458	0	1,699	0	5,157	1,823	6,980	2,844
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	2.00	EA	1,153	0	566	0	1,719	608	2,327	948
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	3.00	EA	1,729	0	849	0	2,578	912	3,490	1,422
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	3.00	EA	1,729	0	849	0	2,578	912	3,490	1,422
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	5.00	EA	2,882	0	1,416	0	4,297	1,519	5,817	2,370
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	21.00	EA	12,104	0	5,945	0	18,049	6,381	24,430	9,953
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	5.00	EA	2,882	0	1,416	0	4,297	1,519	5,817	2,370
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	8.00	EA	4,611	0	2,265	0	6,876	2,431	9,307	3,792

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	2.00	EA	1,153	0	566	0	1,719	608	2,327	948
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	3.00	EA	1,729	0	849	0	2,578	912	3,490	1,422
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	3.00	EA	1,729	0	849	0	2,578	912	3,490	1,422
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	3.00	EA	1,729	0	849	0	2,578	912	3,490	1,422
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	5.00	EA	2,882	0	1,416	0	4,297	1,519	5,817	2,370
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020204 277 Volt 2' X 4' Fluorescent Fixture	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020205 Fluorescent Troffer W/Parabolic Baffle	10.00	EA	5,724	0	2,738	0	8,462	2,992	11,454	4,666
USR D5020020206 Troffer W/Parabolic Baffle And Emergency Unit	2.00	EA	1,112	0	539	0	1,651	584	2,235	910
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	2.00	EA	1,153	0	566	0	1,719	608	2,327	948
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	2.00	EA	1,153	0	566	0	1,719	608	2,327	948
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	2.00	EA	1,153	0	566	0	1,719	608	2,327	948
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	2.00	EA	1,153	0	566	0	1,719	608	2,327	948
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	4.00	EA	2,305	0	1,132	0	3,438	1,215	4,653	1,896
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	10.00	EA	5,764	0	2,831	0	8,595	3,039	11,633	4,739
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	5.00	EA	2,882	0	1,416	0	4,297	1,519	5,817	2,370

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020207 2' X 4' Lay-In Fluorescent Fixture With Emergency Unit	1.00	EA	576	0	283	0	859	304	1,163	474
USR D5020020208 4' Industrial Fluorescent Fixture	14.00	EA	7,857	0	4,352	0	12,210	4,317	16,526	6,733
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	2.00	EA	941	0	791	0	1,733	613	2,345	956
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	2.00	EA	941	0	791	0	1,733	613	2,345	956
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	2.00	EA	941	0	791	0	1,733	613	2,345	956
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	6.00	EA	2,824	0	2,374	0	5,198	1,838	7,036	2,867
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	3.00	EA	1,412	0	1,187	0	2,599	919	3,518	1,433
USR D5020020211 4'- 2 Lamp Wall Mount Fluorescent	1.00	EA	471	0	396	0	866	306	1,173	478
USR D5020020213 Grid Troffer With RFI Shielding	6.00	EA	5,085	0	16,426	0	21,511	7,605	29,117	11,862
USR D5020020214 Surface Mounted 1' X 4' Fluorescent Fixture	3.00	EA	1,520	0	830	0	2,351	831	3,182	1,296
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	2.00	EA	1,090	0	530	0	1,620	573	2,193	893
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	2.00	EA	1,090	0	530	0	1,620	573	2,193	893

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020219 1' X 4' Fluorescent Troffer	2.00	EA	1,090	0	530	0	1,620	573	2,193	893
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020219 1' X 4' Fluorescent Troffer	2.00	EA	1,090	0	530	0	1,620	573	2,193	893
USR D5020020219 1' X 4' Fluorescent Troffer	1.00	EA	545	0	265	0	810	286	1,096	447
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	2.00	EA	797	0	497	0	1,294	457	1,751	714
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020220 Ceiling Recessed Incandescent 100 Watt Fixture	1.00	EA	398	0	249	0	647	229	876	357
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462
USR D5020020221 Recessed Fluorescent Square Fixture	4.00	EA	2,245	0	1,106	0	3,351	1,185	4,535	1,848
USR D5020020221 Recessed Fluorescent Square Fixture	1.00	EA	561	0	276	0	838	296	1,134	462
USR D5020020222 Recessed Wall Mounted Fluorescent Fixture 9" X 4"	1.00	EA	438	0	201	0	639	226	865	352
USR D5020020222 Recessed Wall Mounted Fluorescent Fixture 9" X 4"	1.00	EA	438	0	201	0	639	226	865	352
USR D5020020222 Recessed Wall Mounted Fluorescent Fixture 9" X 4"	1.00	EA	438	0	201	0	639	226	865	352
USR D5020020222 Recessed Wall Mounted Fluorescent Fixture 9" X 4"	1.00	EA	438	0	201	0	639	226	865	352
USR D5020020222 Recessed Wall Mounted Fluorescent Fixture 9" X 4"	1.00	EA	438	0	201	0	639	226	865	352
USR D5020020222 Recessed Wall Mounted Fluorescent Fixture 9" X 4"	1.00	EA	438	0	201	0	639	226	865	352
USR D5020020222 Recessed Wall Mounted Fluorescent Fixture 9" X 4"	1.00	EA	438	0	201	0	639	226	865	352
USR D5020020223 Recessed Fluorescent Down Light	3.00	EA	1,557	0	1,315	0	2,872	1,015	3,887	1,584
USR D5020020224 Recessed Fluorescent Down Light With Battery Back Up	1.00	EA	729	0	717	0	1,446	511	1,958	798
USR D5020020224 Recessed Fluorescent Down Light With Battery Back Up	17.00	EA	12,390	0	12,196	0	24,586	8,692	33,278	13,558

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020226 Recessed Compact Fluorescent Round Down Light	1.00	EA	398	0	380	0	779	275	1,054	429
USR D5020020226 Recessed Compact Fluorescent Round Down Light	1.00	EA	398	0	380	0	779	275	1,054	429
USR D5020020226 Recessed Compact Fluorescent Round Down Light	1.00	EA	398	0	380	0	779	275	1,054	429
USR D5020020226 Recessed Compact Fluorescent Round Down Light	3.00	EA	1,195	0	1,141	0	2,336	826	3,162	1,288
USR D5020020226 Recessed Compact Fluorescent Round Down Light	2.00	EA	797	0	761	0	1,558	551	2,108	859
USR D5020020226 Recessed Compact Fluorescent Round Down Light	1.00	EA	398	0	380	0	779	275	1,054	429
USR D5020020227 175W Metal Halide Wall Pack	4.00	EA	2,709	0	6,698	0	9,407	3,326	12,732	5,187
USR D5020020227 175W Metal Halide Wall Pack	1.00	EA	677	0	1,674	0	2,352	831	3,183	1,297
USR D5020020228 250W Hps Wall Pack	31.00	EA	18,526	0	20,669	0	39,195	13,857	53,052	21,614
USR D5020020228 250W Hps Wall Pack	1.00	EA	598	0	667	0	1,264	447	1,711	697
USR D5020020231 175W Mercury Vapor Wall Pack	3.00	EA	1,247	0	778	0	2,025	716	2,741	1,117
USR D5020020234 Recessed Mercury Vapor Fixture	1.00	EA	426	0	339	0	765	271	1,036	422
USR D5020020234 Recessed Mercury Vapor Fixture	1.00	EA	426	0	339	0	765	271	1,036	422
USR D5020020234 Recessed Mercury Vapor Fixture	1.00	EA	426	0	339	0	765	271	1,036	422
USR D5020020234 Recessed Mercury Vapor Fixture	1.00	EA	426	0	339	0	765	271	1,036	422

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020234 Recessed Mercury Vapor Fixture	4.00	EA	1,705	0	1,357	0	3,062	1,082	4,144	1,688
USR D5020020235 150 Watt Hps Recessed Fixture	1.00	EA	676	0	847	0	1,523	538	2,061	840
USR D5020020235 150 Watt Hps Recessed Fixture	2.00	EA	1,353	0	1,693	0	3,046	1,077	4,123	1,680
USR D5020020235 150 Watt Hps Recessed Fixture	9.00	EA	6,087	0	7,619	0	13,706	4,846	18,552	7,558
USR D5020020235 150 Watt Hps Recessed Fixture	1.00	EA	676	0	847	0	1,523	538	2,061	840
USR D5020020246 Vapor Tight Incandescent Pendant Mount Fixture	1.00	EA	539	0	326	0	865	306	1,170	477
USR D5020020254 High Bay 400W Hps Fixture	1.00	EA	1,063	0	973	0	2,036	720	2,756	1,123
USR D5020020271 Wall Mount Exit Light	1.00	EA	506	0	306	0	812	287	1,099	448
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	3.00	EA	1,777	0	1,486	0	3,263	1,154	4,416	1,799
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	2.00	EA	1,185	0	991	0	2,175	769	2,944	1,199
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020272 Exit Light With Battery Backup	1.00	EA	592	0	495	0	1,088	385	1,472	600
USR D5020020274 6V Emergency Battery Pack	2.00	EA	1,223	0	915	0	2,137	756	2,893	1,179
USR D5020020278 Accent Wall Fixture, Compact Fluorescent	24.00	EA	11,823	0	8,354	0	20,177	7,134	27,311	11,126
USR D5020020280 Dock Lights	1.00	EA	609	0	400	0	1,008	357	1,365	556
D502090 OTHER LIGHTING AND BRANCH WIRING	**1.00**	**EA**	**1,728**	**0**	**596**	**0**	**2,324**	**822**	**3,146**	**1,282**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5020909010 4-Pair Telephone Outlet	3.00	EA	1,728	0	596	0	2,324	822	3,146	1,282
D502095 RENOVATE LIGHTING & BRANCH WIRING	**1.00**	**EA**	**135**	**0**	**189**	**0**	**325**	**115**	**440**	**179**
USR D5020959276 Smoke Detector	1.00	EA	135	0	189	0	325	115	440	179
D5030 COMMUNICATIONS & SECURITY	**1.00**	**EA**	**121,260**	**0**	**108,593**	**1,603**	**231,456**	**81,831**	**313,287**	**127,634**
D503001 TELECOMMUNICATIONS SYSTEMS	**1.00**	**EA**	**44,297**	**0**	**24,381**	**0**	**68,679**	**24,281**	**92,960**	**37,872**
USR D5030010302 27-Pair Telephone System	1.00	EA	823	0	3,034	0	3,857	1,364	5,221	2,127
USR D5030010304 Shielded Data Outlet	40.00	EA	24,845	0	11,371	0	36,215	12,804	49,019	19,971
USR D5030010307 Fiber Optics Network Hub (25 Ports) W/Secure Cabinet	4.00	EA	15,270	0	6,132	0	21,402	7,567	28,969	11,802
USR D5030010308 Fiber Optics Telephone Patch Panel (50 Pair)	8.00	EA	3,359	0	3,845	0	7,204	2,547	9,751	3,973
D503002 PUBLIC ADDRESS SYSTEMS	**1.00**	**EA**	**15,179**	**0**	**22,215**	**0**	**37,394**	**13,221**	**50,615**	**20,621**
USR D5030020401 Sound And Public Address	19,999.00	SF	15,179	0	22,215	0	37,394	13,221	50,615	20,621
D503004 TELEVISION SYSTEMS	**1.00**	**EA**	**2,380**	**0**	**4,070**	**0**	**6,450**	**2,280**	**8,730**	**3,557**
USR D5030040701 Television Outlet Complete With Wire And Conduit	17.00	EA	2,380	0	4,070	0	6,450	2,280	8,730	3,557
D503005 SECURITY SYSTEMS	**1.00**	**EA**	**21,013**	**0**	**32,870**	**1,603**	**55,486**	**19,617**	**75,104**	**30,597**
USR D5030050801 Card Reader Security System	7.00	EA	4,498	0	7,046	0	11,544	4,081	15,625	6,366

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5030050802 CCTV Security System	2.00	EA	2,801	0	9,709	0	12,510	4,423	16,933	6,899
USR D5030050803 Intrusion Detection System	2.00	EA	6,419	0	2,042	0	8,461	2,991	11,452	4,666
USR D5030050807 Light Control System	4.00	EA	7,295	0	14,074	1,603	22,972	8,122	31,093	12,667
D503006 NURSE CALL SYSTEMS	**1.00**	**EA**	**35,914**	**0**	**23,183**	**0**	**59,098**	**20,894**	**79,991**	**32,589**
USR D5030060201 Nurse Call Headwall Unit Including Conduit And Wire	8.00	EA	6,132	0	4,479	0	10,611	3,752	14,363	5,851
USR D5030060202 Nurse Call Dome Light	6.00	EA	2,700	0	1,211	0	3,910	1,383	5,293	2,156
USR D5030060203 Duty Station Including Wire And Conduit	8.00	EA	9,443	0	4,621	0	14,064	4,972	19,037	7,756
USR D5030060204 Emergency Call Station	13.00	EA	13,980	0	6,435	0	20,415	7,218	27,632	11,257
USR D5030060204 Emergency Call Station	1.00	EA	1,075	0	495	0	1,570	555	2,126	866
USR D5030060205 Master Control Station For Nurse Call System	1.00	EA	2,584	0	5,943	0	8,527	3,015	11,541	4,702
D503007 CLOCK & PROGRAM SYSTEMS	**1.00**	**EA**	**2,476**	**0**	**1,872**	**0**	**4,349**	**1,537**	**5,886**	**2,398**
USR D5030070601 Clock System	4.00	EA	2,476	0	1,872	0	4,349	1,537	5,886	2,398
D5090 OTHER ELECTRICAL SERVICES	**1.00**	**EA**	**6,031**	**0**	**7,787**	**12,748**	**26,566**	**9,392**	**35,958**	**14,650**
D509003 GROUNDING SYSTEMS	**1.00**	**EA**	**1,823**	**0**	**1,347**	**0**	**3,170**	**1,121**	**4,291**	**1,748**
USR D5090030302 Building Grounding	3.00	EA	1,823	0	1,347	0	3,170	1,121	4,291	1,748
D509004 LIGHTNING PROTECTION	**1.00**	**EA**	**3,515**	**0**	**2,135**	**0**	**5,650**	**1,998**	**7,648**	**3,116**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR D5090040401 Lightning Protection System	8.00	EA	3,515	0	2,135	0	5,650	1,998	7,648	3,116
D509006 ENERGY MANAGEMENT CONTROL SYSTEM	**1.00**	**EA**	**692**	**0**	**4,305**	**12,748**	**17,745**	**6,274**	**24,019**	**9,786**
USR D5090060601 Energy Management Control System	16.00	EA	692	0	4,305	12,748	17,745	6,274	24,019	9,786
E EQUIPMENT & FURNISHINGS	**1.00**	**EA**	**11,576**	**170**	**318,300**	**0**	**330,046**	**116,688**	**446,734**	**182,000**
E10 EQUIPMENT	**1.00**	**EA**	**11,576**	**170**	**318,300**	**0**	**330,046**	**116,688**	**446,734**	**182,000**
E1020 INSTITUTIONAL EQUIPMENT	**1.00**	**EA**	**1,545**	**0**	**199,052**	**0**	**200,597**	**70,921**	**271,519**	**110,617**
E102002 MEDICAL EQUIPMENT	**1.00**	**EA**	**1,113**	**0**	**197,295**	**0**	**198,408**	**70,147**	**268,556**	**109,410**
USR E1020021001 Ceiling Mounted Operating Light	2.00	EA	190	0	7,665	0	7,855	2,777	10,632	4,331
USR E1020021003 Medical Sterilizer	1.00	EA	429	0	93,876	0	94,306	33,342	127,647	52,004
USR E1020021003 Medical Sterilizer	1.00	EA	429	0	93,876	0	94,306	33,342	127,647	52,004
USR E1020021004 X-Ray Film Illuminator, Dental	1.00	EA	65	0	1,878	0	1,942	687	2,629	1,071
E102003 LABORATORY EQUIPMENT	**1.00**	**EA**	**432**	**0**	**1,757**	**0**	**2,189**	**774**	**2,963**	**1,207**
USR E1020031101 Film Pass Thru Cabinet	1.00	EA	432	0	1,757	0	2,189	774	2,963	1,207
E1030 VEHICULAR EQUIPMENT	**1.00**	**EA**	**5,964**	**170**	**18,069**	**0**	**24,202**	**8,557**	**32,759**	**13,346**
E103002 LOADING DOCK EQUIPMENT	**1.00**	**EA**	**5,964**	**170**	**18,069**	**0**	**24,202**	**8,557**	**32,759**	**13,346**
USR E1030020602 1.83m x 2.44m (6'0" X 8'0") Long 9.07Mg (10 Ton) Capacity Dock Leveler With Stairs	1.00	EA	3,114	108	16,874	0	20,095	7,105	27,200	11,081

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR E1030020606 609.60mm (24") Deep Dock Leveler Pit Wall W/Stl Angle	1.00	EA	2,850	62	1,195	0	4,107	1,452	5,559	2,265
E1090 OTHER EQUIPMENT	**1.00**	**EA**	**4,067**	**0**	**101,179**	**0**	**105,247**	**37,210**	**142,457**	**58,037**
E109002 FOOD SERVICE EQUIPMENT	**1.00**	**EA**	**4,067**	**0**	**101,179**	**0**	**105,247**	**37,210**	**142,457**	**58,037**
USR E1090020301 40 - 250 Person Dining Hall - Kitchen Equipment	0.12	SET	3,249	0	72,429	0	75,677	26,756	102,433	41,732
USR E1090020305 40 - 250 Person Dining Hall - Food Service Equipment	0.12	SET	818	0	28,751	0	29,569	10,454	40,023	16,306
F SPECIAL CONSTRUCTION & DEMOLITION	**1.00**	**EA**	**5,226**	**105**	**6,118**	**0**	**11,449**	**4,048**	**15,497**	**6,313**
F10 SPECIAL CONSTRUCTION	**1.00**	**EA**	**5,226**	**105**	**6,118**	**0**	**11,449**	**4,048**	**15,497**	**6,313**
F1010 SPECIAL STRUCTURES	**1.00**	**EA**	**5,226**	**105**	**6,118**	**0**	**11,449**	**4,048**	**15,497**	**6,313**
F101090 OTHER SPECIAL CONSTRUCTION	**1.00**	**EA**	**5,226**	**105**	**6,118**	**0**	**11,449**	**4,048**	**15,497**	**6,313**
USR F1010909002 Entry Canopy W/Brick Veneer And Built-Up Roof	95.00	SF	5,226	105	6,118	0	11,449	4,048	15,497	6,313
Construct Supporting Facilities for New Hospital (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**1.00**	**EA**	**0**	**0**	**0**	**4,750,000**	**4,750,000**	**1,679,363**	**6,429,363**	**2,619,335**
USR Construct Supporting Facilities for New Hospital	1.00	EA	0	0	0	4,750,000	4,750,000	1,679,363	6,429,363	2,619,335
(Note: assume 25% of the new hospital contract cost.)										
Demo and Construct New Apartment	**33,000.00**	**SF**	**0**	**0**	**0**	**4,360,000**	**4,360,000**	**1,541,478**	**5,901,478**	**2,404,274**

(Note: Assume 1 Apartment – Three story 30 Unit low-income senior/disabled units. Assume total area = 3 story x 11,000 sf/story = 33,000 sf)

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
MDL-24 Apartment Demolition	**33,000.00**	**SF**	**0**	**0**	**0**	**288,750**	**288,750**	**102,088**	**390,838**	**159,228**
USR Apartment Demolition	33,000.00	SF	0	0	0	288,750	288,750	102,088	390,838	159,228
Construct New Apartment	**33,000.00**	**SF**	**0**	**0**	**0**	**3,258,750**	**3,258,750**	**1,152,131**	**4,410,881**	**1,797,002**
USR Construct New Apartment	33,000.00	SF	0	0	0	3,258,750	3,258,750	1,152,131	4,410,881	1,797,002
(Note: Assume unit cost is equivalent to new multi familty house unit cost = $975,000/9153 sf (Seward, AK Zillow.com) = $107/sf. Assume sub cost.)										
Construct Supporting Facilities for New Apartment (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**1.00**	**EA**	**0**	**0**	**0**	**812,500**	**812,500**	**287,259**	**1,099,759**	**448,044**
USR Construct Supporting Facilities for New Houses	1.00	EA	0	0	0	812,500	812,500	287,259	1,099,759	448,044
(Note: assume 25% of the new hospital contract cost.)										
Demo and Construct 17 New Houses	**1.00**	**LS**	**0**	**0**	**0**	**9,627,000**	**9,627,000**	**3,403,626**	**13,030,626**	**5,308,703**
(Note: Reference new house area and cost from Zillow.com for Seward, AK.)										
MDL-24 Houses Demolition	**40,800.00**	**SF**	**0**	**0**	**0**	**255,000**	**255,000**	**90,155**	**345,155**	**140,617**
(Note: Assume an average house area = (1410+3327)/2 = 2400 sf. Estimated total area for 17 houses = 17 x 2400 sf = 40,800 sf.)										
USR Houses Demolition	40,800.00	SF	0	0	0	255,000	255,000	90,155	345,155	140,617
Construct 17 Houses	**40,800.00**	**SF**	**0**	**0**	**0**	**7,497,000**	**7,497,000**	**2,650,564**	**10,147,564**	**4,134,138**
USR Construct 17 Houses	40,800.00	SF	0	0	0	7,497,000	7,497,000	2,650,564	10,147,564	4,134,138
(Note: Assume an average house area = (1410+3327)/2 = 2400 sf. Estimated total area for 17 houses = 17 x 2400 sf = 40,800 sf. Assume new house cost = ($336,900 + $614,000)/2 = $475,450. Estimate average new house unit cost = $475,450/2400 sf = $198/sf. Assume sub cost.)										
Construct Supporting Facilities for New Houses (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**1.00**	**EA**	**0**	**0**	**0**	**1,875,000**	**1,875,000**	**662,906**	**2,537,906**	**1,033,948**
USR Construct Supporting Facilities for New Houses	1.00	EA	0	0	0	1,875,000	1,875,000	662,906	2,537,906	1,033,948
(Note: assume 25% of the new hospital contract cost.)										

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
Land acquisition to relocate Seward area just north of the Safeway	**5.00**	**ACR**	**0**	**0**	**0**	**1,206,250**	**1,206,250**	**426,470**	**1,632,720**	**665,173**
USR Land acquisition to relocate Seward area just north of the Safeway	5.00	ACR	0	0	0	1,206,250	1,206,250	426,470	1,632,720	665,173

(Note: Assume $260,000/acre per Zillow values. Assume sub cost.)

Description	UOM	Quantity	ContractCost	Contingency	ProjectCost
Project Cost Report			**36,308,039**	**18,154,019**	**54,462,058**
Demo and Construct New Apartment	**SF**	**33,000.00**	**10,673,525**	**5,336,762**	**16,010,287**
Apartment Demolition	**SF**	**33,000.00**	**706,876**	**353,438**	**1,060,314**
Construct New Apartment	**SF**	**33,000.00**	**7,977,603**	**3,988,802**	**11,966,405**
Construct Supporting Facilities for New Apartment (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**EA**	**1.00**	**1,989,046**	**994,523**	**2,983,568**
Demo and Construct 17 New Houses	**LS**	**1.00**	**23,567,437**	**11,783,718**	**35,351,155**
Houses Demolition	**SF**	**40,800.00**	**624,254**	**312,127**	**936,381**
Construct 17 Houses	**SF**	**40,800.00**	**18,353,077**	**9,176,539**	**27,529,616**
Construct Supporting Facilities for New Houses (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**EA**	**1.00**	**4,590,105**	**2,295,053**	**6,885,158**
Land acquisition to relocate Seward area just north of the Safeway	**ACR**	**3.50**	**2,067,077**	**1,033,539**	**3,100,616**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
Direct Costs Report			**0**	**0**	**0**	**14,831,375**	**14,831,375**	**5,243,633**	**20,075,008**	**16,233,031**
Demo and Construct New Apartment	**33,000.00**	**SF**	**0**	**0**	**0**	**4,360,000**	**4,360,000**	**1,541,478**	**5,901,478**	**4,772,047**
(Note: Assume 1 Apartment – Three story 30 Unit low-income senior/disabled units. Assume total area = 3 story x 11,000 sf/story = 33,000 sf)										
MDL-24 Apartment Demolition	**33,000.00**	**SF**	**0**	**0**	**0**	**288,750**	**288,750**	**102,088**	**390,838**	**316,039**
USR Apartment Demolition	33,000.00	SF	0	0	0	288,750	288,750	102,088	390,838	316,039
Construct New Apartment	**33,000.00**	**SF**	**0**	**0**	**0**	**3,258,750**	**3,258,750**	**1,152,131**	**4,410,881**	**3,566,722**
USR Construct New Apartment	33,000.00	SF	0	0	0	3,258,750	3,258,750	1,152,131	4,410,881	3,566,722
(Note: Assume unit cost is equivalent to new multi familty house unit cost = $975,000/9153 sf (Seward, AK Zillow.com) = $107/sf. Assume sub cost.)										
Construct Supporting Facilities for New Apartment (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**1.00**	**EA**	**0**	**0**	**0**	**812,500**	**812,500**	**287,259**	**1,099,759**	**889,286**
USR Construct Supporting Facilities for New Houses	1.00	EA	0	0	0	812,500	812,500	287,259	1,099,759	889,286
(Note: assume 25% of the new hospital contract cost.)										
Demo and Construct 17 New Houses	**1.00**	**LS**	**0**	**0**	**0**	**9,627,000**	**9,627,000**	**3,403,626**	**13,030,626**	**10,536,811**
(Note: Reference new house area and cost from Zillow.com for Seward, AK.)										
MDL-24 Houses Demolition	**40,800.00**	**SF**	**0**	**0**	**0**	**255,000**	**255,000**	**90,155**	**345,155**	**279,099**
(Note: Assume an average house area = (1410+3327)/2 = 2400 sf. Estimated total area for 17 houses = 17 x 2400 sf = 40,800 sf.)										
USR Houses Demolition	40,800.00	SF	0	0	0	255,000	255,000	90,155	345,155	279,099
Construct 17 Houses	**40,800.00**	**SF**	**0**	**0**	**0**	**7,497,000**	**7,497,000**	**2,650,564**	**10,147,564**	**8,205,513**
USR Construct 17 Houses	40,800.00	SF	0	0	0	7,497,000	7,497,000	2,650,564	10,147,564	8,205,513
(Note: Assume an average house area = (1410+3327)/2 = 2400 sf. Estimated total area for 17 houses = 17 x 2400 sf = 40,800 sf. Assume new house cost = ($336,900 + $614,000)/2 = $475,450. Estimate average new house unit cost = $475,450/2400 sf = $198/sf. Assume sub cost.)										
Construct Supporting Facilities for New Houses (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**1.00**	**EA**	**0**	**0**	**0**	**1,875,000**	**1,875,000**	**662,906**	**2,537,906**	**2,052,199**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
USR Construct Supporting Facilities for New Houses	1.00	EA	0	0	0	1,875,000	1,875,000	662,906	2,537,906	2,052,199
(Note: assume 25% of the new hospital contract cost.)										
Land acquisition to relocate Seward area just north of the Safeway	**3.50**	**ACR**	**0**	**0**	**0**	**844,375**	**844,375**	**298,529**	**1,142,904**	**924,174**
USR Land acquisition to relocate Seward area just north of the Safeway	3.50	ACR	0	0	0	844,375	844,375	298,529	1,142,904	924,174
(Note: Assume $260,000/acre per Zillow values. Assume sub cost.)										

Description	UOM	Quantity	ContractCost	Contingency	ProjectCost
Project Cost Report			**29,198,232**	**14,599,116**	**43,797,348**
Demo and Construct 17 New Houses	**LS**	**1.00**	**27,156,619**	**13,578,310**	**40,734,929**
Houses Demolition	**SF**	**40,800.00**	**719,325**	**359,662**	**1,078,987**
Construct 17 Houses	**SF**	**40,800.00**	**21,148,143**	**10,574,072**	**31,722,215**
Construct Supporting Facilities for New Houses (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**EA**	**1.00**	**5,289,151**	**2,644,576**	**7,933,727**
Land acquisition to relocate Seward area just north of the Safeway	**ACR**	**3.00**	**2,041,612**	**1,020,806**	**3,062,419**

Description	Quantity	UOM	DirectLabor	DirectEQ	DirectMatl	DirectSubBid	DirectCost	SubCMU	CostToPrime	PrimeCMU
Direct Costs Report			**0**	**0**	**0**	**10,350,750**	**10,350,750**	**3,659,508**	**14,010,258**	**15,187,974**
Demo and Construct 17 New Houses	**1.00**	**LS**	**0**	**0**	**0**	**9,627,000**	**9,627,000**	**3,403,626**	**13,030,626**	**14,125,994**
(Note: Reference new house area and cost from Zillow.com for Seward, AK.)										
MDL-24 Houses Demolition	**40,800.00**	**SF**	**0**	**0**	**0**	**255,000**	**255,000**	**90,155**	**345,155**	**374,169**
(Note: Assume an average house area = (1410+3327)/2 = 2400 sf. Estimated total area for 17 houses = 17 x 2400 sf = 40,800 sf.)										
USR Houses Demolition	40,800.00	SF	0	0	0	255,000	255,000	90,155	345,155	374,169
Construct 17 Houses	**40,800.00**	**SF**	**0**	**0**	**0**	**7,497,000**	**7,497,000**	**2,650,564**	**10,147,564**	**11,000,579**
USR Construct 17 Houses	40,800.00	SF	0	0	0	7,497,000	7,497,000	2,650,564	10,147,564	11,000,579
(Note: Assume an average house area = (1410+3327)/2 = 2400 sf. Estimated total area for 17 houses = 17 x 2400 sf = 40,800 sf. Assume new house cost = ($336,900 + $614,000)/2 = $475,450. Estimate average new house unit cost = $475,450/2400 sf = $198/sf. Assume sub cost.)										
Construct Supporting Facilities for New Houses (Electric Service, Water, Sewer, Gas, Paving, Walks, Curbs and Gutters, and Storm Drainage)	**1.00**	**EA**	**0**	**0**	**0**	**1,875,000**	**1,875,000**	**662,906**	**2,537,906**	**2,751,245**
USR Construct Supporting Facilities for New Houses	1.00	EA	0	0	0	1,875,000	1,875,000	662,906	2,537,906	2,751,245
(Note: assume 25% of the new hospital contract cost.)										
Land acquisition to relocate Seward area just north of the Safeway	**3.00**	**ACR**	**0**	**0**	**0**	**723,750**	**723,750**	**255,882**	**979,632**	**1,061,981**
USR Land acquisition to relocate Seward area just north of the Safeway	3.00	ACR	0	0	0	723,750	723,750	255,882	979,632	1,061,981
(Note: Assume $260,000/acre per Zillow values. Assume sub cost.)										

10.2 ATTACHMENT 2 – Conceptual Sketches and Quantities

Drawing C:\Users\J4ENTRCT\Documents\Pandemic Files\EN\Public\CW\EN-CW-HH\Projects\Lowell CT - Study\10 Dwgs\CAD\LCT_Feas_Study.dwg last saved on 4/8/2020 2:35 PM was plotted by Tedrick, Robert C CIV USARMY CEPOA (USA) on 4/8/2020 2:59 PM

SEWARD, ALASKA
LOWELL CREEK FEASIBILITY STUDY
STRUCTURAL
FIGURE 14A ALTERNATIVE 4A SITE PLAN

SHEET XXX OF

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DRAWN:	RCT
REVIEWED:	L. N. EPPS
CHIEF, ENGINEERING SECTION:	D. BLISS
CEPOA-EC-G	
DATE:	11 MAR 1962
DWG SCALE:	AS NOTED
PLOT SCALE:	1:1
FILE:	LCT_Feas_Study

VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

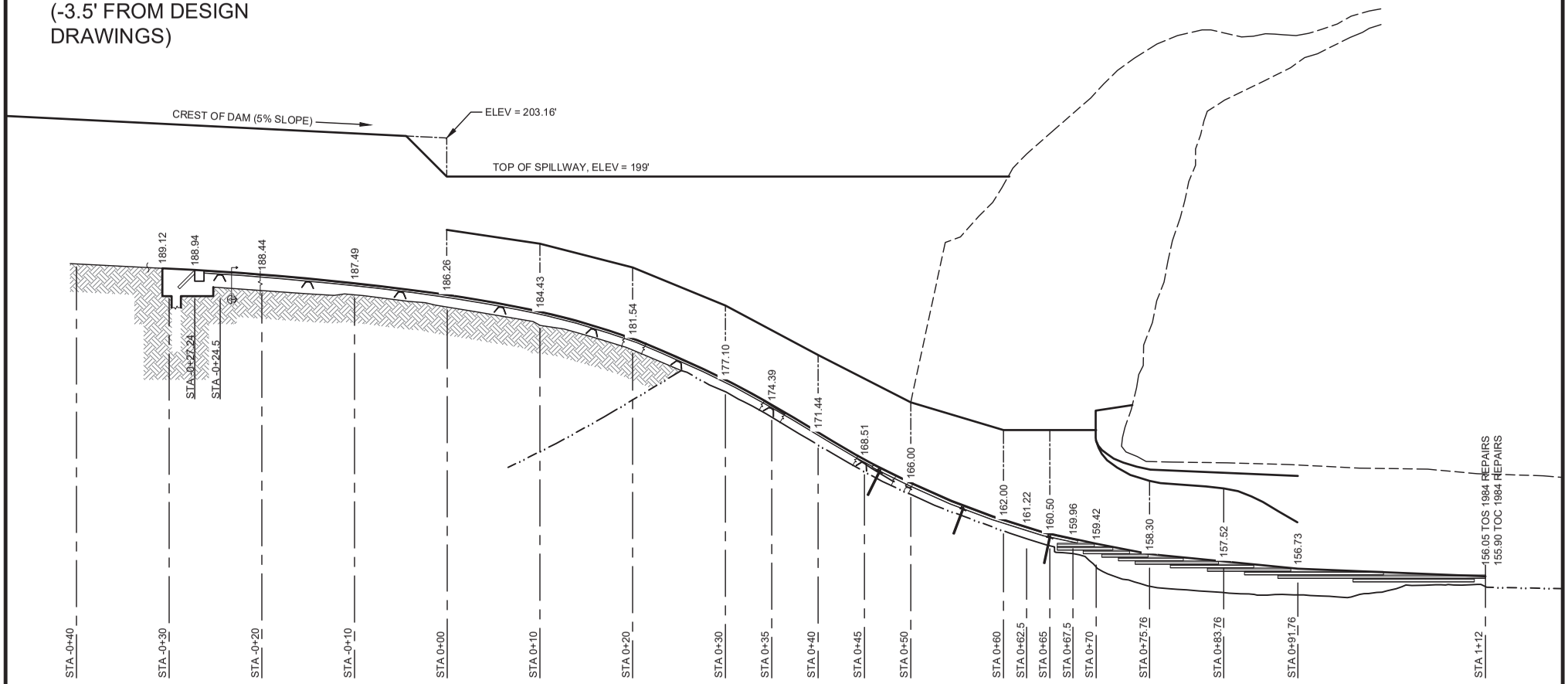
LCT_Feas_Study

NUM	ACTION	DESCRIPTION	DATE	APPD

US Army Corps of Engineers®
Alaska District

TSP

PROFILE OF INTAKE TRANSITION WITH APPROXIMATE NAVD83 ELEVATIONS (-3.5' FROM DESIGN DRAWINGS)



U.S. ARMY CORPS OF ENGINEERS ALASKA DISTRICT ANCHORAGE, ALASKA	DRAWN: RCT REVIEWED: L. N. EPPS CHIEF, EC-G-HH SECTION D. BLISS CEPOA-EC-G	DATE: 11 MAR 1962 DWG SCALE: AS NOTED PLOT SCALE: 1:1 FILE: LCT_Feas_Study

VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING
0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

LCT Feas Study

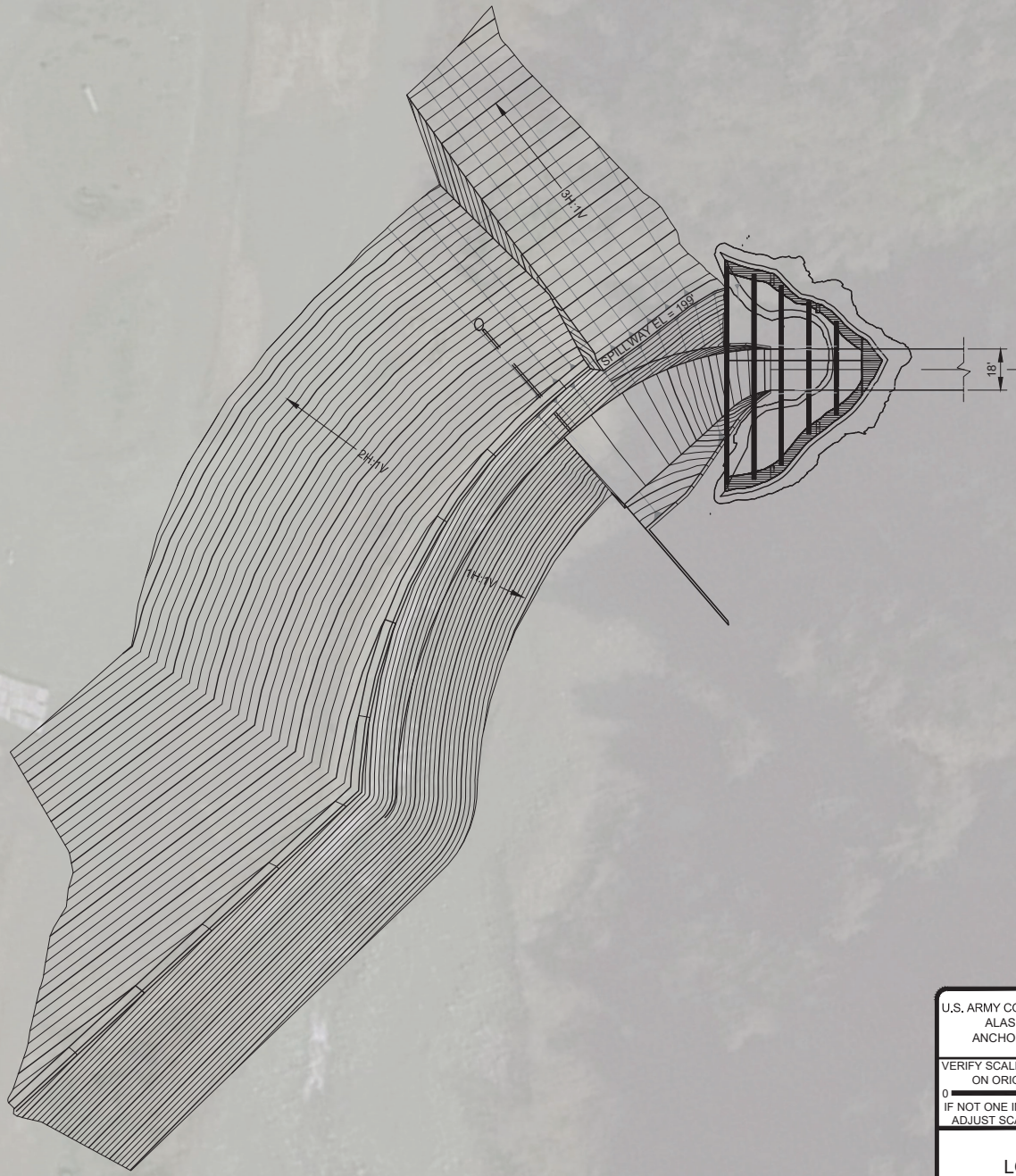
SEWARD, ALASKA
LOWELL CREEK FEASIBILITY STUDY
STRUCTURAL
FIG 12 PROFILE OF INTAKE TRANSITION

NOT FOR CONSTRUCTION

TSP

SHEET xxx OF 3

Drawing O:\EN\Public\CW\EN-CW-HH\Projects\Lowell CT - Study\10 Dwgs\CAD\LCT_Feas_Study.dwg last saved on 11/18/2019 1:24 AM was plotted by Tedrick, Robert C CIV USARMY CEPOA (USA) on 11/18/2019 1:26 AM



A ALT 3 NEW DAM AND 18' TUNNEL
SCALE: 1" = 75' (2' CONTOURS)

0 75' 150'

NOT FOR CONSTRUCTION

TSP

U.S. ARMY CORPS OF ENGINEERS ALASKA DISTRICT ANCHORAGE, ALASKA	DRAWN: RCT REVIEWED: L. N. EPPS CHIEF, EC-G-HH SECTION D. BLISS CEPOA-EC-G	DATE: 11 MAR 1962 DWG SCALE: AS NOTED PLOT SCALE: 1:1 FILE: LCT_Feas_Study
VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.		LCT Feas Study

SEWARD, ALASKA
LOWELL CREEK FEASIBILITY STUDY
STRUCTURAL
FIG 13 S4 ENLARGE (E) DAM AND TUNNEL

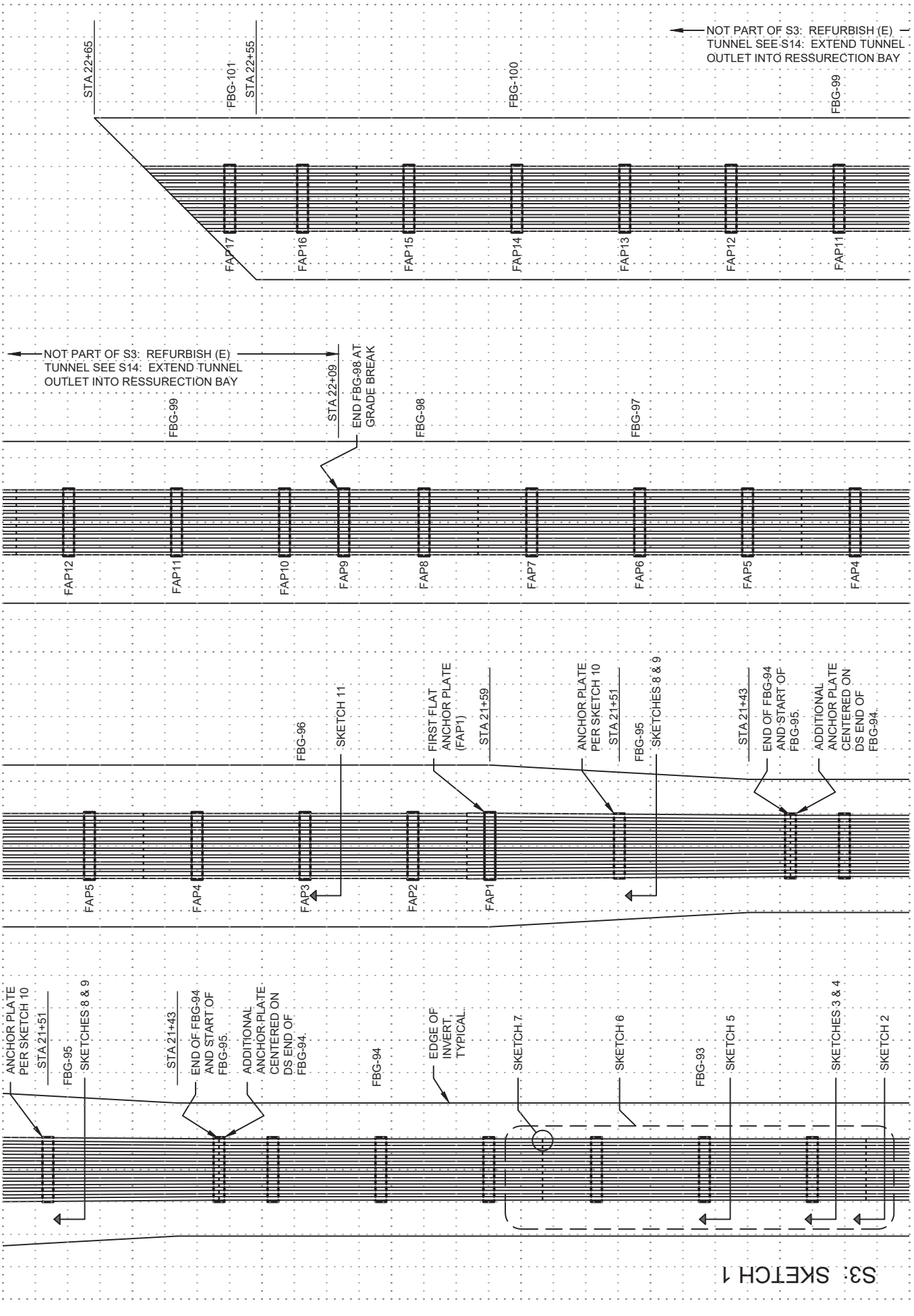
SHEET xxx OF 3

Drawing O:\EN\Public\CW\EN-CW-HH\Projects\Lowell CT - Study\10 Dwgs\CAD\LCT_Feas_Study.dwg last saved on 11/18/2019 1:24 AM was plotted by Tedrick, Robert C CIV USARMY CEPOA (USA) on 11/18/2019 1:26 AM

S3: Refurbish Existing Tunnel
Designed By: *Robert C. Tedrick*
Checked By: _____

US. Army Engineer District, Alaska
Corps of Engineers
Anchorage, Alaska

Sheet _____ of _____
LOWELL CREEK FEASIBILITY STUDY
Date: _____



S3: SKETCH 1

SCALE: 1/8" = 1'-0"

SCALE: 3/8" = 1'-0"

S3: Refurbish Existing Tunnel
Designed By: Robert E. Jedrick
Checked By: _____

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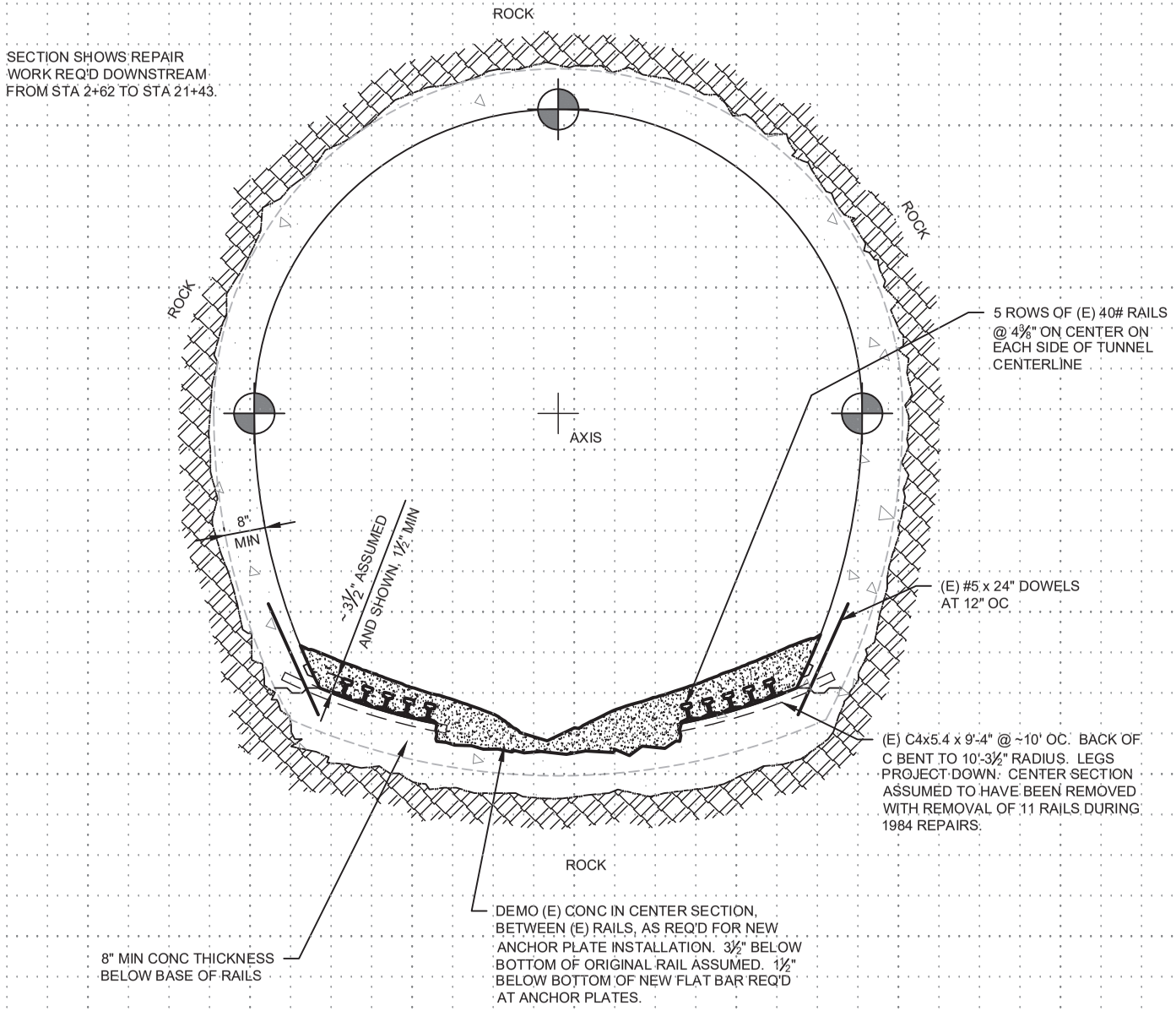
Corps of Engineers
Anchorage, Alaska

Sheet _____ of _____
LOWELL CREEK FEASIBILITY STUDY
Date: _____



STA 2+62 TO 21+43 DEMOLITION SECTION

B2
S-101 | S-101

SCALE: 3/8" = 1'-0"

S3: SKETCH 2

SCALE: 3/8" = 1'-0"

S3: Refurbish Existing Tunnel
Designed By: Robert C. Tedrick
Checked By:

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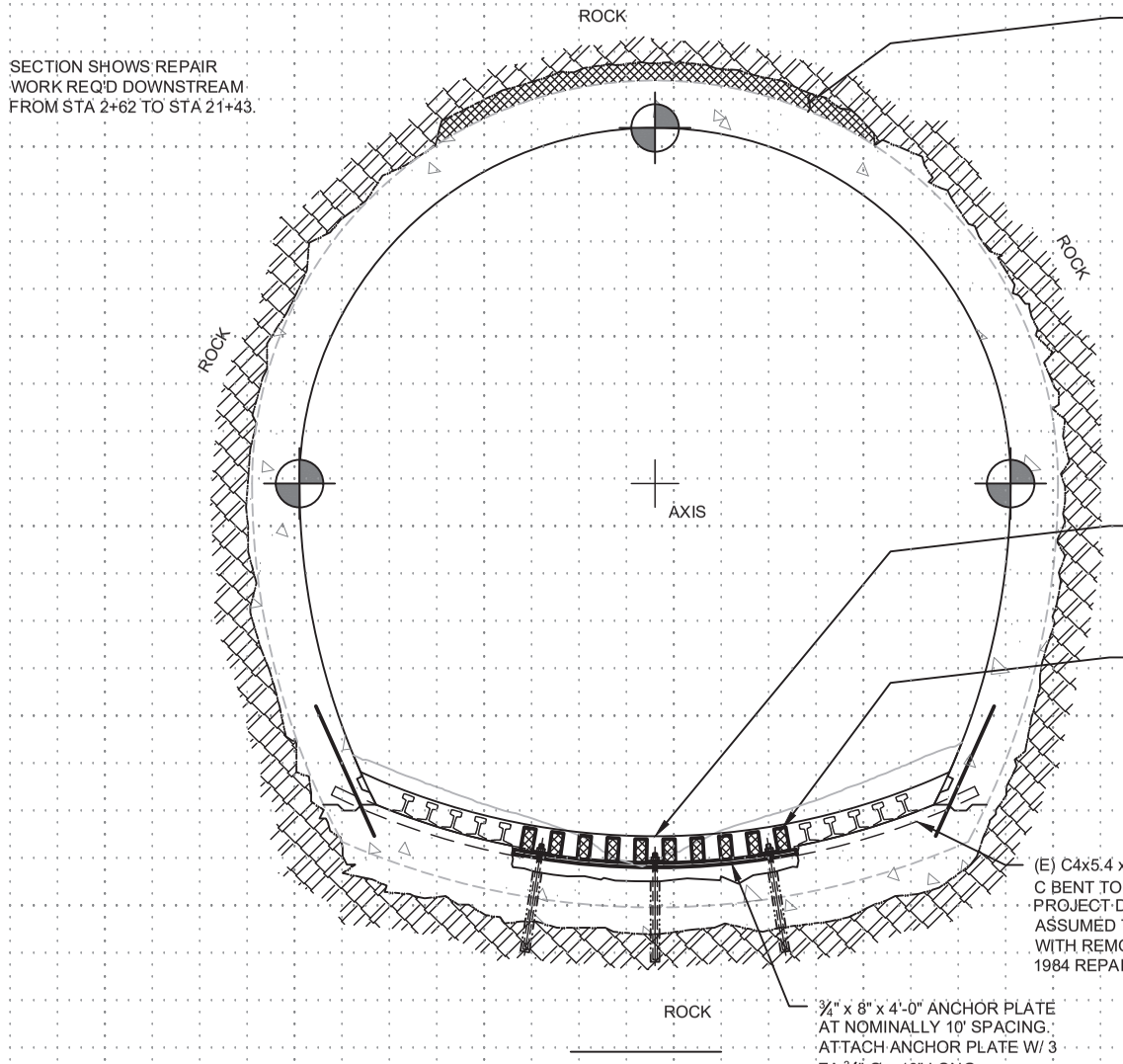
Corps of Engineers
Anchorage, Alaska

Sheet ____ of ____
LOWELL CREEK FEASIBILITY STUDY
Date:



STA 2+62 TO 21+43 REPAIR SECTION - 10 NEW FLAT BARS

B4
S-101 | S-101

SCALE: 3/8" = 1'-0"

S3: SKETCH 3

S3: Refurbish Existing Tunnel
Designed By: *Robert C. Tedrick*
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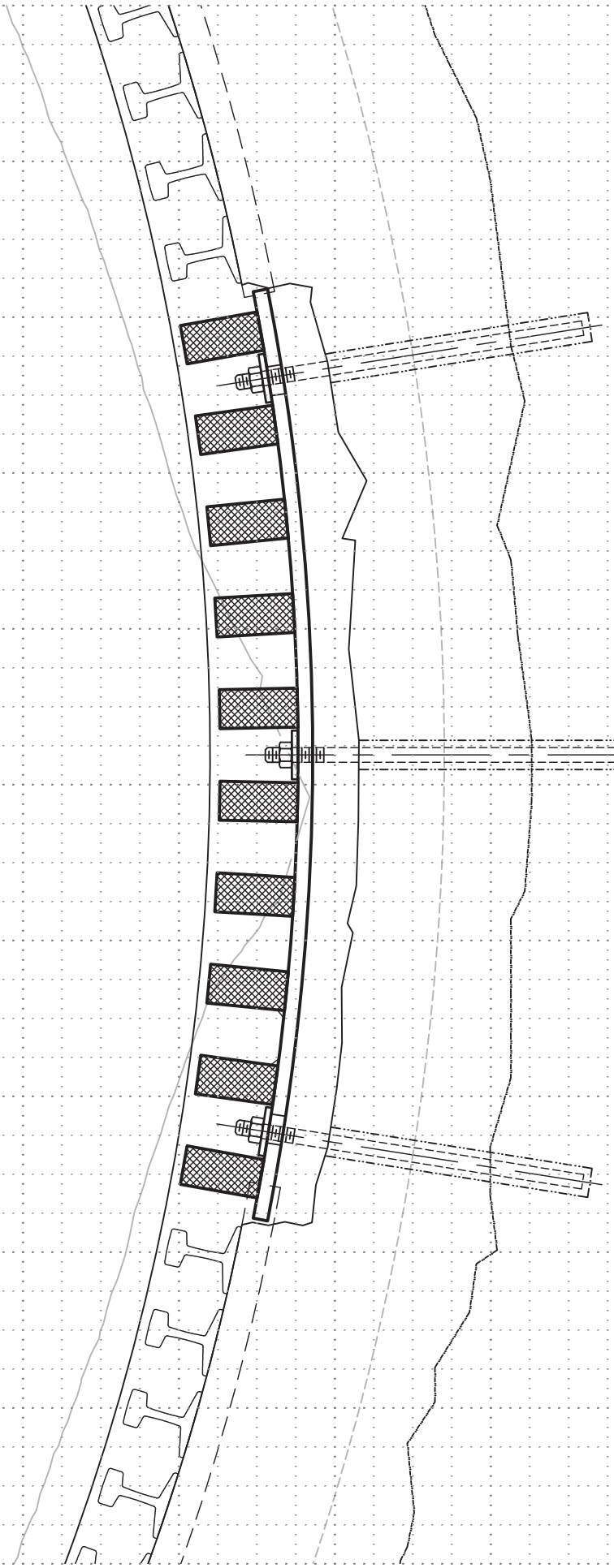
Corps of Engineers
Anchorage, Alaska

Sheet _____ of _____
LOWELL CREEK FEASIBILITY STUDY
Date: _____

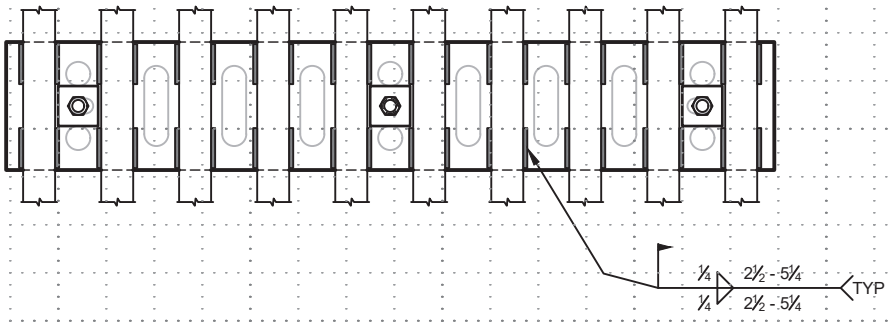
S3: SKETCH 4



STA 2+62 TO 21+43 REPAIR CLOSEUP

SCALE: 1 1/2" = 1'-0"

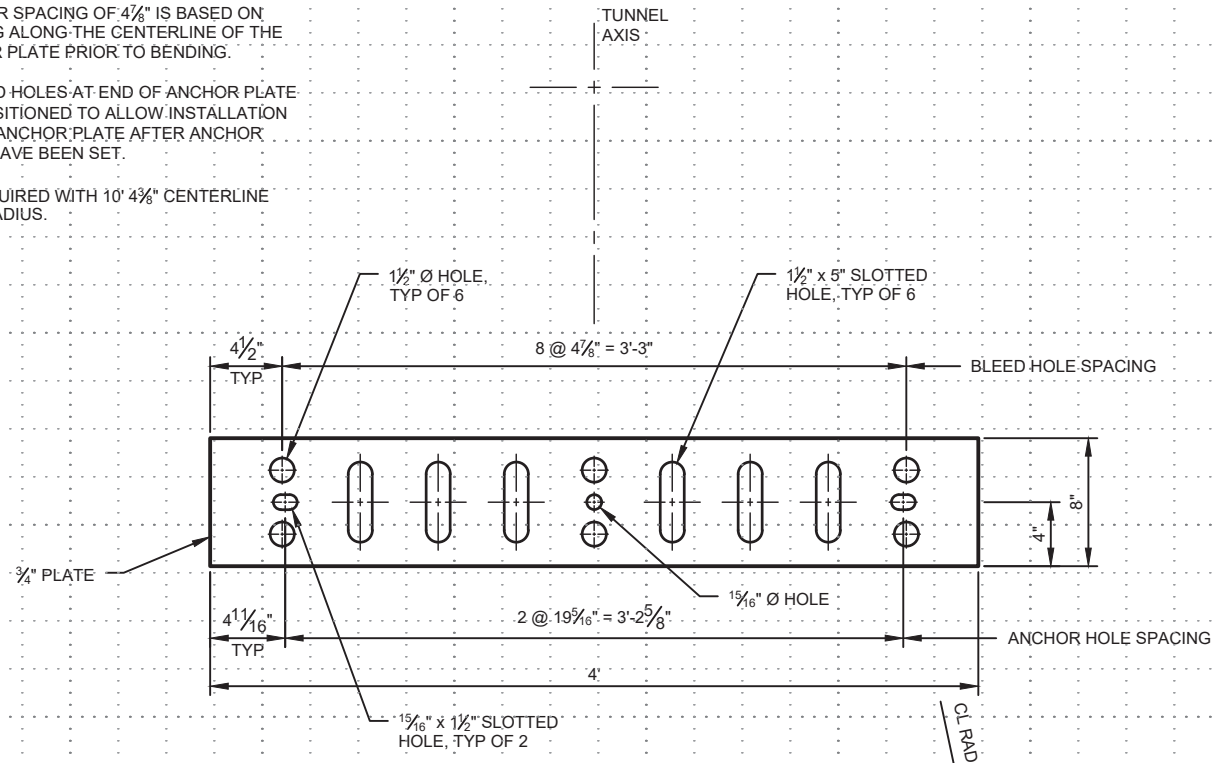
SCALE: 1:8



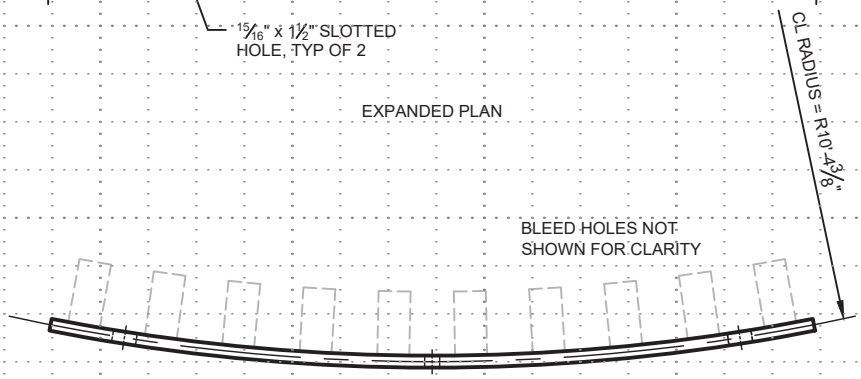
EXPANDED ASSEMBLED PLAN

NOTES:

1. FLAT BAR SPACING OF 4⅞" IS BASED ON SPACING ALONG THE CENTERLINE OF THE ANCHOR PLATE PRIOR TO BENDING.
2. SLOTTED HOLES AT END OF ANCHOR PLATE ARE POSITIONED TO ALLOW INSTALLATION OF THE ANCHOR PLATE AFTER ANCHOR BOLTS HAVE BEEN SET.
3. 283 REQUIRED WITH 10' 4⅜" CENTERLINE BEND RADIUS.



EXPANDED PLAN



EDGE VIEW AFTER BENDING

SCALE: 1" = 1'-0"

TYP INVERT ANCHOR PLATE DETAIL

A4
S-501 | S-502

S3: SKETCH 5

S3: Refurbish Existing Tunnel
Designed By: *Robert C. Tedrick*
Checked By: _____

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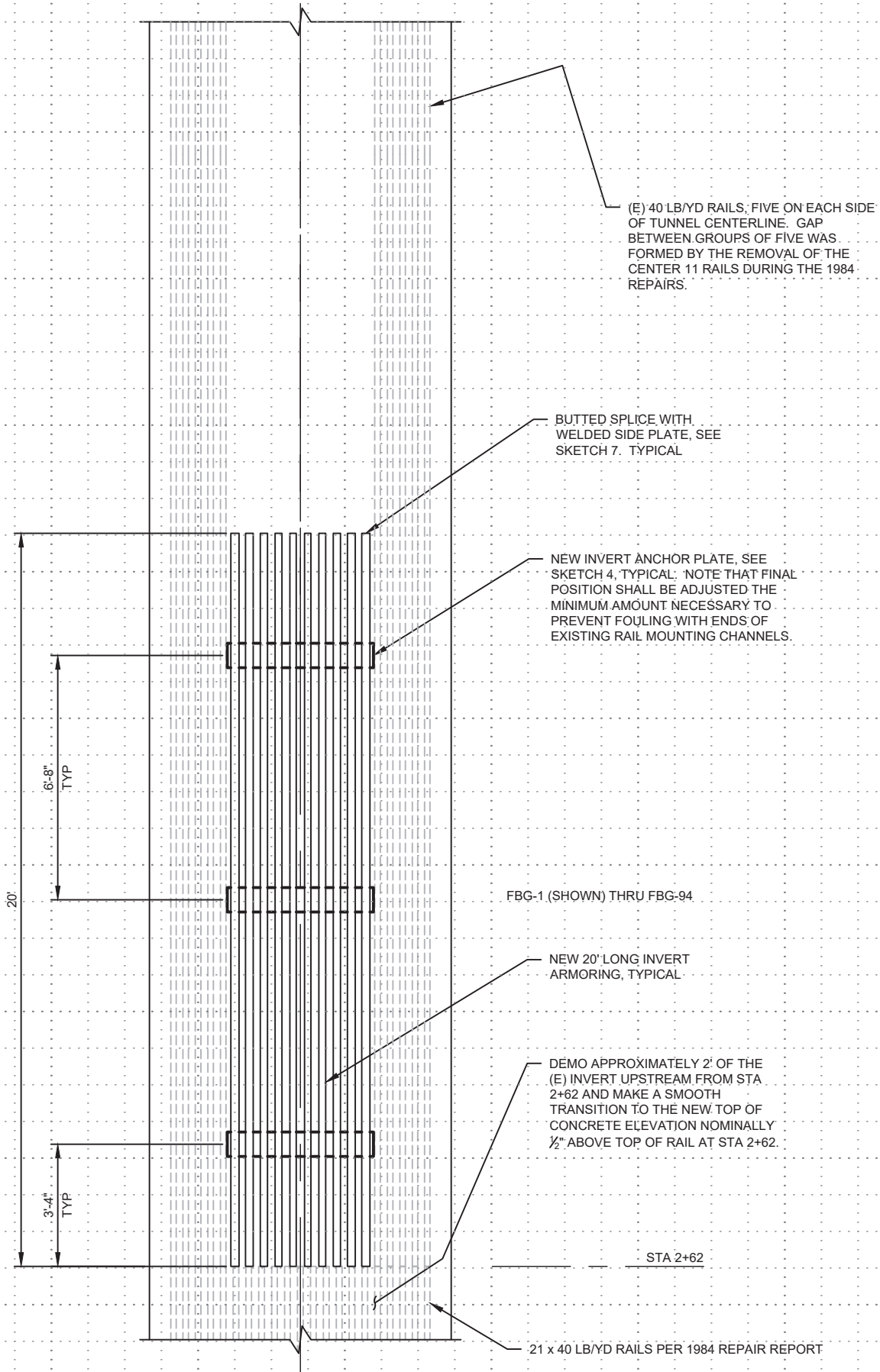
Corps of Engineers
Anchorage, Alaska

Sheet _____ of _____
LOWELL CREEK FEASIBILITY STUDY
Date: _____

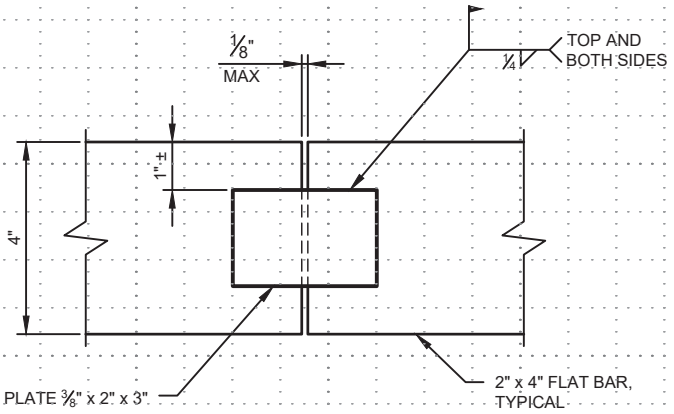


NOTE: DIMENSIONS SHOWN ARE ALONG SLOPED FLOOR OF TUNNEL

NEW INVERT-RAIL PLAN (A2)
SCALE: 1/4" = 1'-0"
S-101 | S-201

S3: SKETCH 6

SCALE: 1/4" = 1'-0"



FLAT BAR SPLICE DETAIL (A7 / S-501 | S-502)

SCALE: 3" = 1'-0"

S3: SKETCH 7

SCALE: 3" = 1'-0"

SCALE: 3/8" = 1'-0"

S3: Refurbish Existing Tunnel
Designed By: *Robert E. Fedrick*
Checked By: _____

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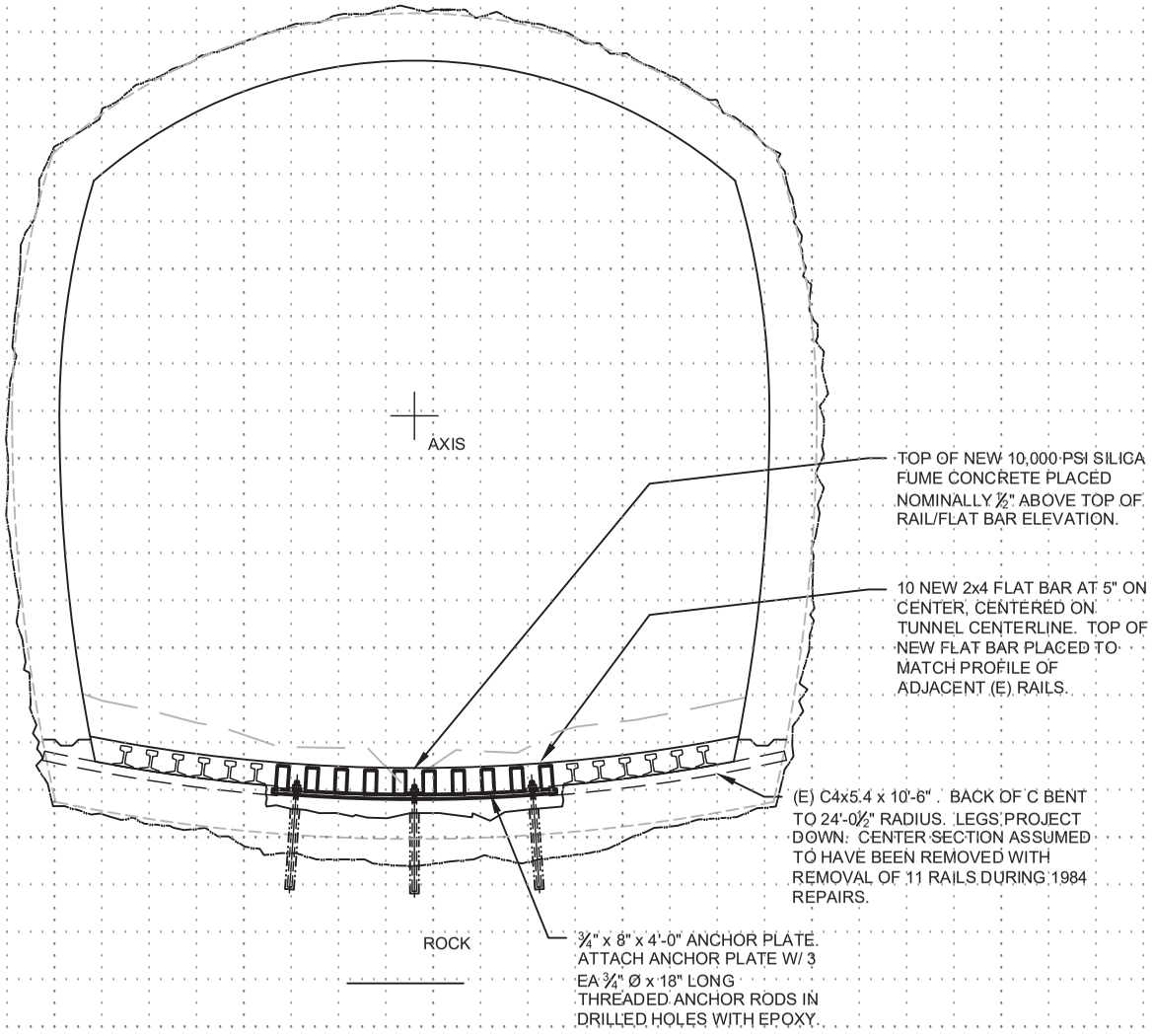
Anchorage, Alaska

Sheet _____ of _____
LOWELL CREEK FEASIBILITY STUDY
Date: _____



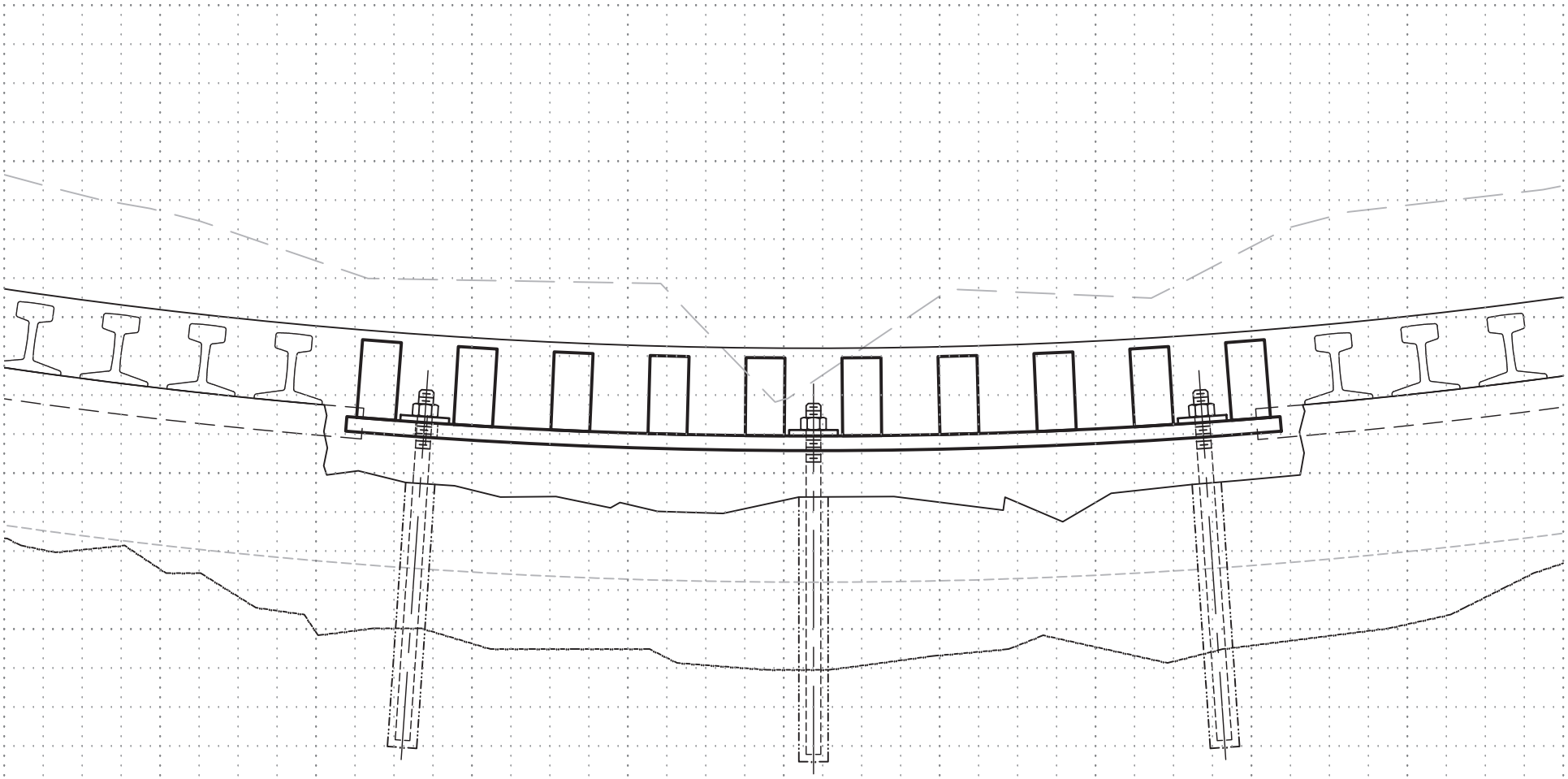
STA 21+51 REPAIR SECTION - 10 NEW FLAT BARS

SCALE: 3/8" = 1'-0"

B5
S-101 | S-101

S3: SKETCH 8

SCALE: 1 1/2" = 1'-0"



STA 21+51 REPAIR CLOSEUP

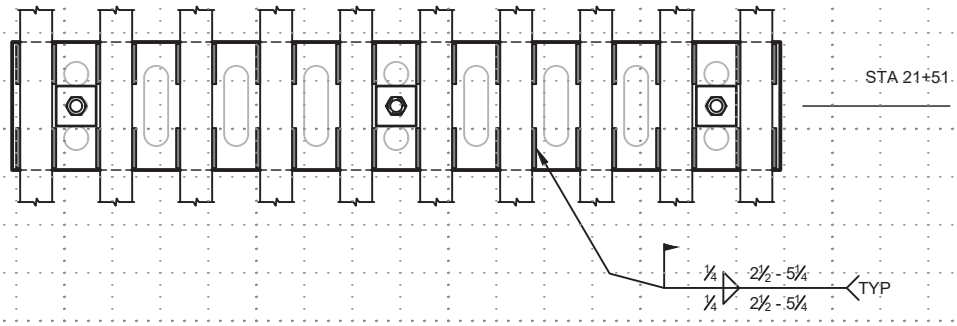
SCALE: 1 1/2" = 1'-0"

S3: SKETCH 9

S3: Refurbish Existing Tunnel
Designed By: *Robert E. Jedrick*
Checked By: _____

US. Army Engineer District, Alaska
Corps of Engineers
Anchorage, Alaska

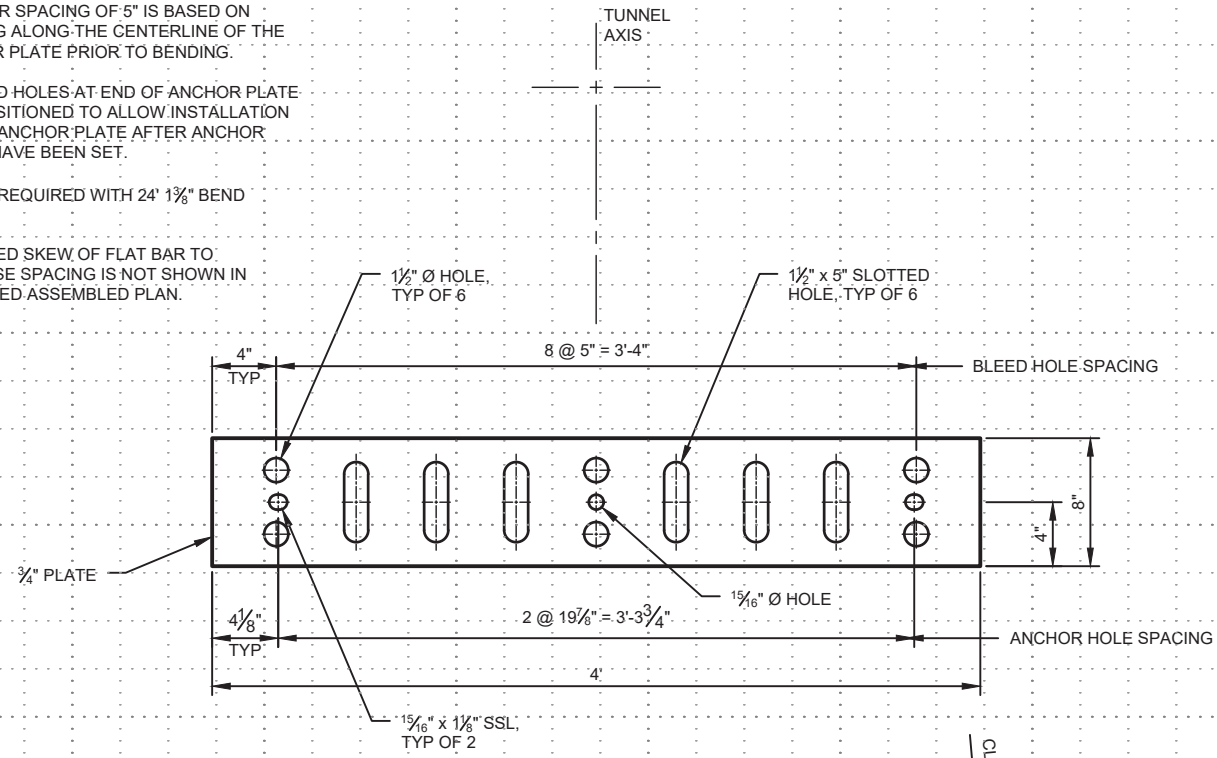
Sheet _____ of _____
LOWELL CREEK FEASIBILITY STUDY
Date: _____



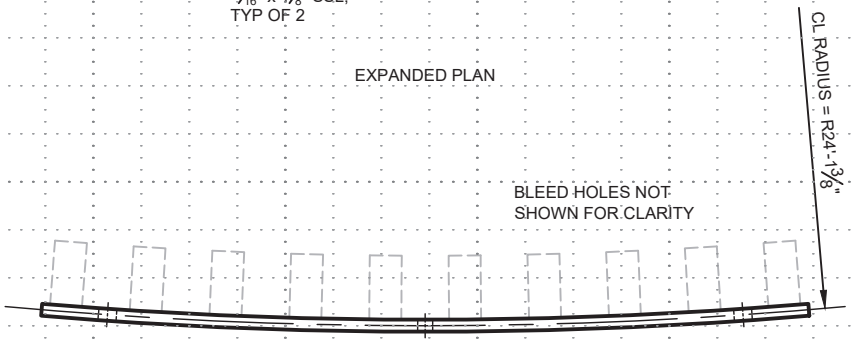
EXPANDED ASSEMBLED PLAN

NOTES:

1. FLAT BAR SPACING OF 5" IS BASED ON SPACING ALONG THE CENTERLINE OF THE ANCHOR PLATE PRIOR TO BENDING.
2. SLOTTED HOLES AT END OF ANCHOR PLATE ARE POSITIONED TO ALLOW INSTALLATION OF THE ANCHOR PLATE AFTER ANCHOR BOLTS HAVE BEEN SET.
3. ONE (1) REQUIRED WITH 24' 1⅜" BEND RADIUS.
4. REQUIRED SKEW OF FLAT BAR TO INCREASE SPACING IS NOT SHOWN IN EXPANDED ASSEMBLED PLAN.



EXPANDED PLAN



EDGE VIEW AFTER BENDING

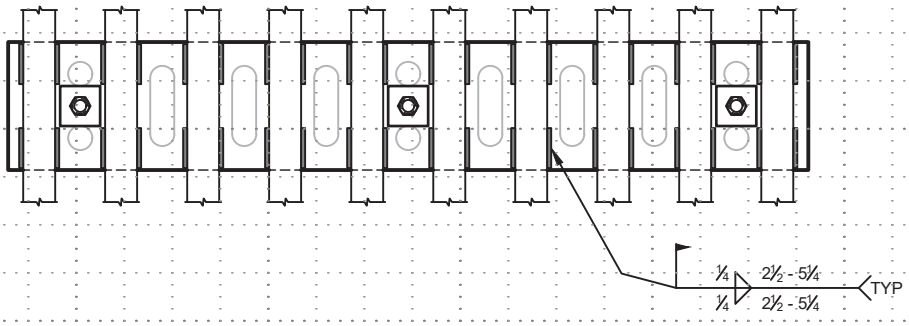
STA 21+51 INVERT ANCHOR PLATE DETAIL

SCALE: 1" = 1'-0"

A5
S-501 | S-502

S3: SKETCH 10

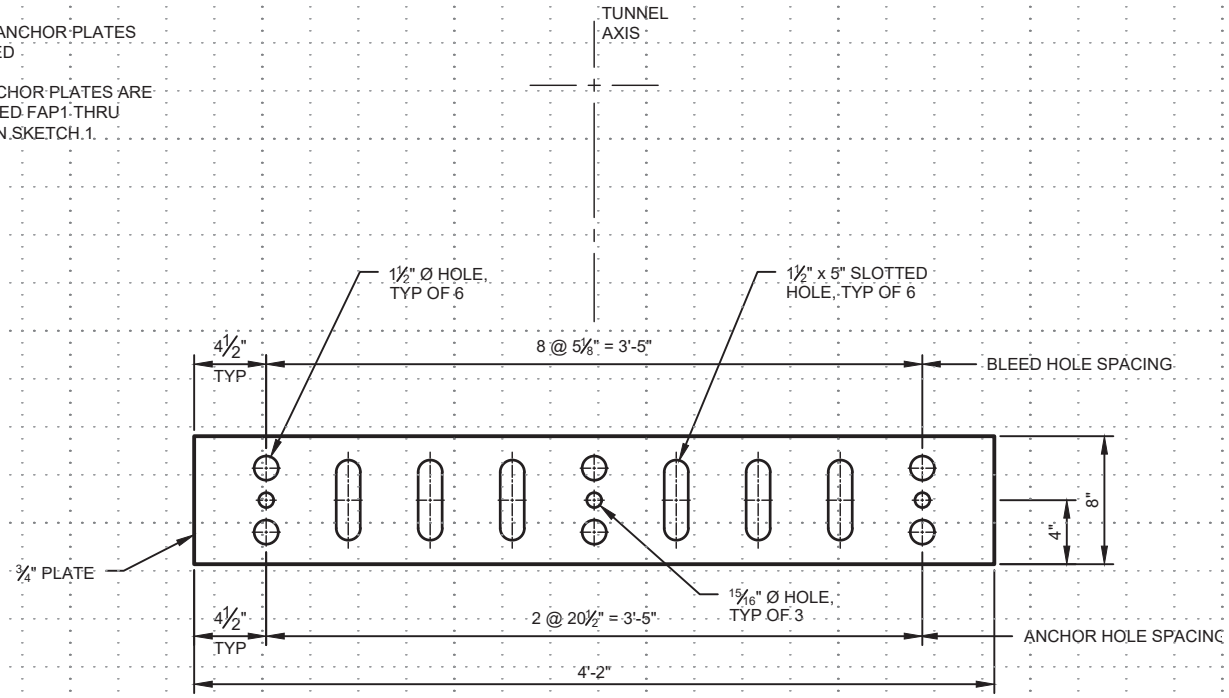
SCALE: 1" = 1'-0"



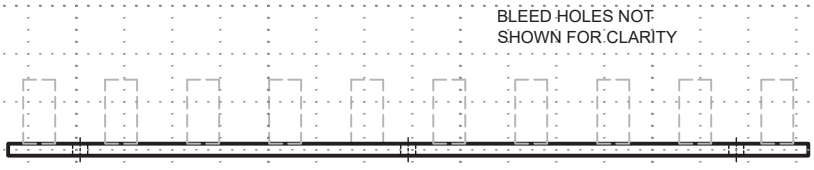
ASSEMBLED PLAN

NOTES:

1. FLAT BAR SPACING IS 5 1/8"
2. 17 FLAT ANCHOR PLATES REQUIRED
3. FLAT ANCHOR PLATES ARE NUMBERED FAP1 THRU FAP17 ON SKETCH 1.



PLAN



EDGE VIEW

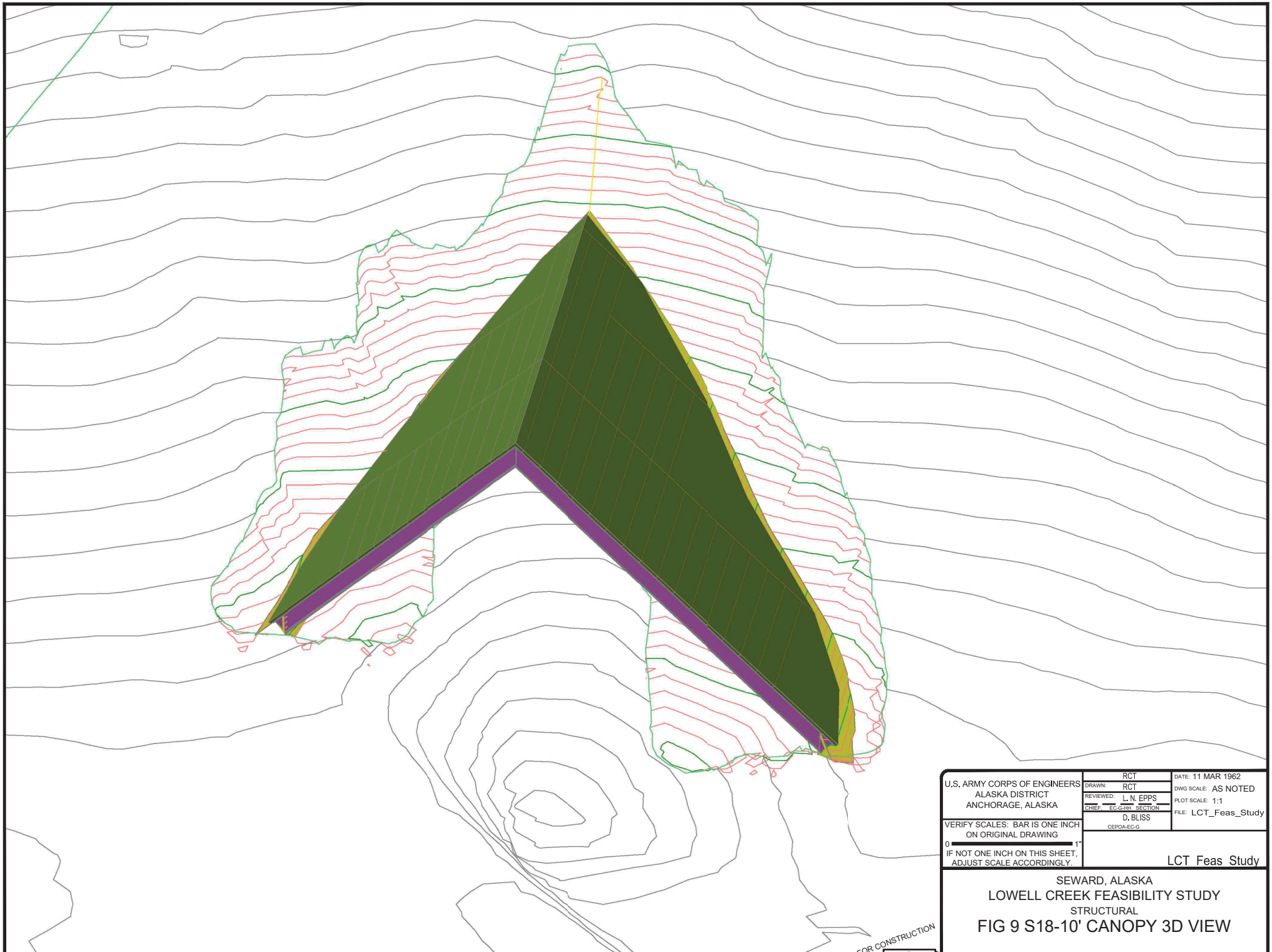
SCALE: 1" = 1'-0"

FLAT ANCHOR PLATE DETAIL

SCALE: 1" = 1'-0"

A6
S-501 | S-502

S3: SKETCH 11



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ALASKA DISTRICT
ANCHORAGE, ALASKA

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DRAWN: RCT		DATE: 11 MAR 1962
REVIEWED: L. N. EPPS		DWG SCALE: AS NOTED
CHIEF, EC-G-HH SECTION		PLOT SCALE: 1:1
D. BLISS		FILE: LCT_Feas_Study
CEPOA-EC-G		

LCT Feas Study

SEWARD, ALASKA
LOWELL CREEK FEASIBILITY STUDY
STRUCTURAL

FIG 9 S18-10' CANOPY 3D VIEW

SHEET xxx OF 3

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TSP

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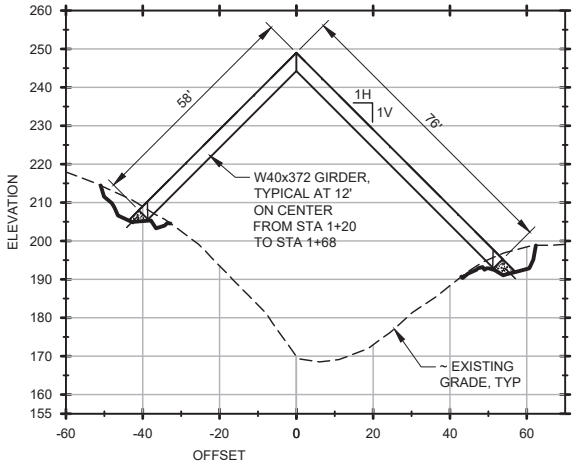
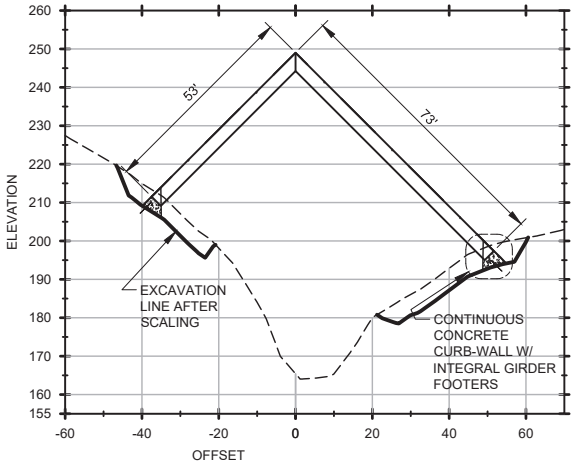
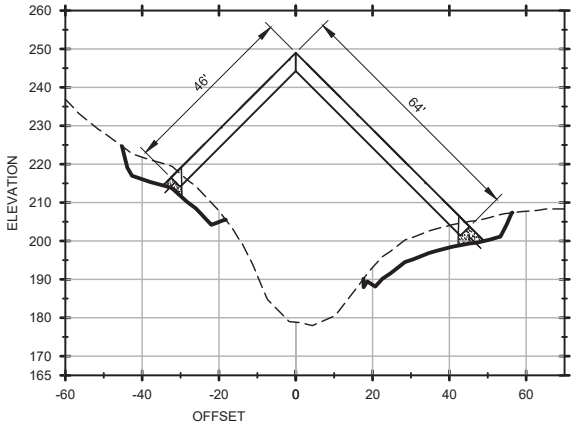


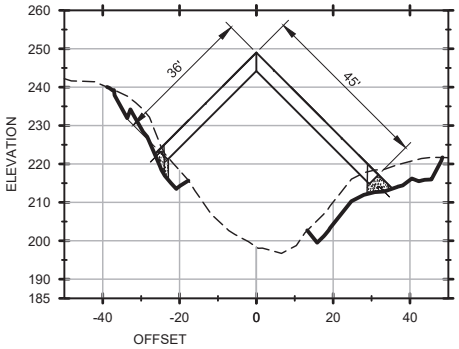
CANOPY SECTION AT STA 1+20



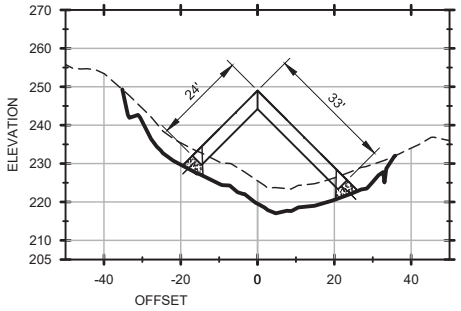
CANOPY SECTION AT STA 1+32



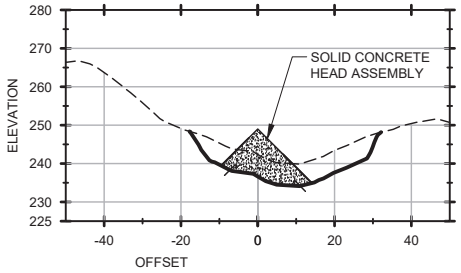
CANOPY SECTION AT STA 1+44



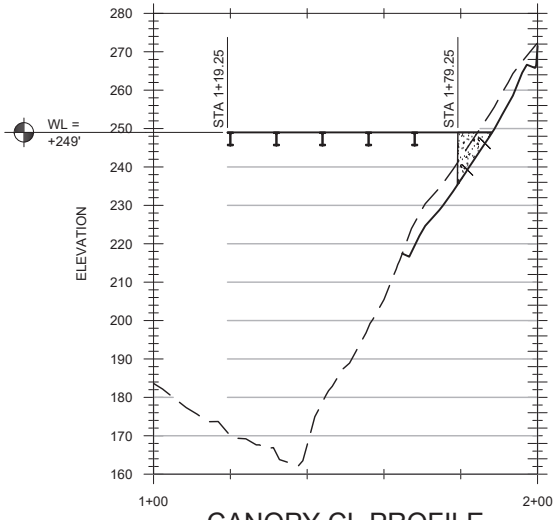
CANOPY SECTION AT STA 1+56



CANOPY SECTION AT STA 1+68



CANOPY SECTION AT STA 1+80



CANOPY CL PROFILE

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REVIEWED:	L. N. EPPS	DWG SCALE: AS NOTED
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	RCT	FILE: LCT_Feas_Study

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SEWARD, ALASKA
LOWELL CREEK FEASIBILITY STUDY
STRUCTURAL

FIG 10 S18 CANOPY PROFILE AND SECTIONS

SHEET xxx OF 3

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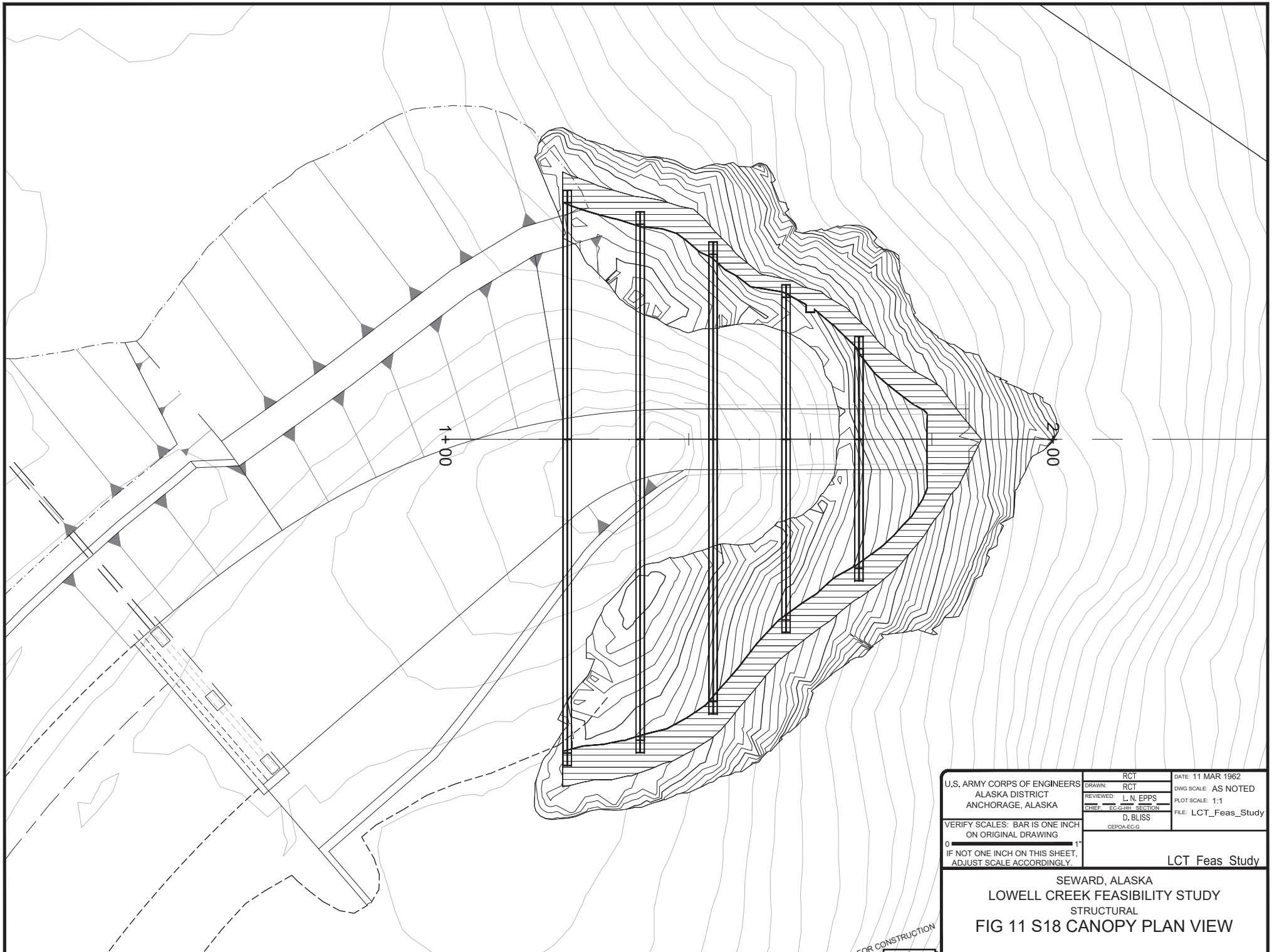

U.S. ARMY CORPS OF ENGINEERS ALASKA DISTRICT ANCHORAGE, ALASKA	DRAWN: RCT REVIEWED: L. N. EPPS CHIEF, EC-G-HH SECTION D. BLISS CEPOA-EC-G	DATE: 11 MAR 1962 DWG SCALE: AS NOTED PLOT SCALE: 1:1 FILE: LCT_Feas_Study
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SEWARD, ALASKA

LOWELL CREEK FEASIBILITY STUDY

STRUCTURAL

FIG 11 S18 CANOPY PLAN VIEW

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SHEET xxx OF 3

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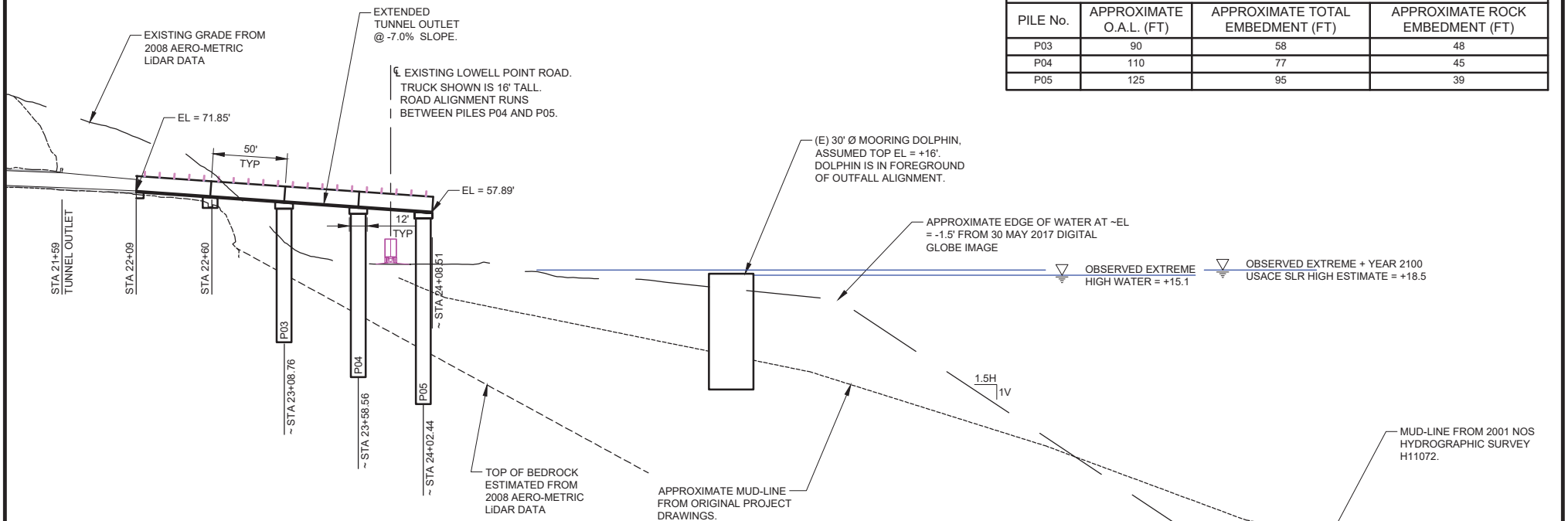
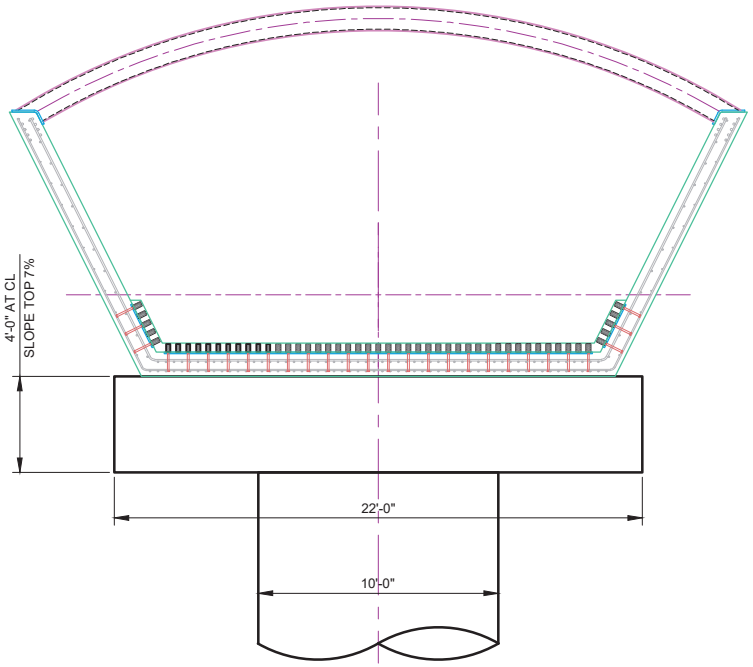
DRILLED SHAFTS			
PILE No.	APPROXIMATE O.A.L. (FT)	APPROXIMATE TOTAL EMBEDMENT (FT)	APPROXIMATE ROCK EMBEDMENT (FT)
P03	90	58	48
P04	110	77	45
P05	125	95	39



S14-18' EXTEND TUNNEL OUTLET 150' - PROFILE

SCALE: 1" = 100'

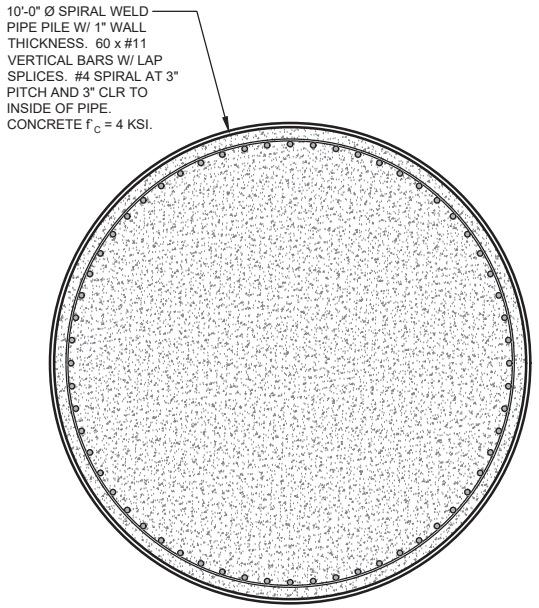
0 100' 200'



NEW FLUME SECTION

SCALE: 1/8" = 1'-0"

0 4' 8' 16'



DRILLED SHAFT CROSS SECTION

SCALE: 1/4" = 1'-0"

0 2' 4' 8'

DQC

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ALASKA DISTRICT
ANCHORAGE, ALASKA

DRAWN: RCT
REVIEWED: L. N. EPPS
CHIEF, EC-G-HH SECTION
D. BLISS
CEPOA-EC-G

DATE: 11 MAR 1962
DWG SCALE: AS NOTED
PLOT SCALE: 1:1
FILE: LCT_Feas_Study

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SEWARD, ALASKA
LOWELL CREEK FEASIBILITY STUDY
STRUCTURAL

FIG 39 S14-18'-4A EXTEND OUTLET 150' TO SHELTER ROAD

SHEET xxx OF

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Nguyen, Binh T CIV USARMY CEPOA (USA)

From: Chalup, Coleman J CIV USARMY CEPOA (USA)
Sent: Thursday, October 29, 2020 12:07 PM
To: Nguyen, Binh T CIV USARMY CEPOA (USA)
Cc: Howard, Brent S (Steven) CIV USARMY CEPOA (USA); Tedrick, Robert C CIV USARMY CEPOA (USA)
Subject: Lowell Creek Tree Removal

Binh,

Robert called me and the assumption for how many trees that need to be removed sounds reasonable to me. I think that we should cut the trees into 4-8' sections and let them lay/rot. It sounds like a lot of added cost for removing the trees from the area.

The other thing I think we should assume is that we will replant some trees (1-2) where we remove the large one to help promote regrowth and limit concerns for slope stability/increased erosion.

Thank you,

Coleman J. Chalup, P.E.
Dam Safety Program Manager
Lead Engineer Moose Creek Dam
Geotechnical and Materials Section
U.S. Army Corps of Engineers - Alaska District
coleman.j.chalup@usace.army.mil
O: 907-753-2686
C: 907-223-9298

Structural Quantity Take-Off for S1 & S8 Construct Additional Diversion Dam and Tunnel; and S4 Enlarge Existing Tunnel (which includes a new dam)

Item	Fabrication as needed	Description	Specification	Unit	Length/Area	Width/Diameter	Thickness	Count	Wt./Unit	Total Length	Total Vol./Area	Total Weight	Comments
S4 Enlarge Existing Tunnel													
	Create new 18' ø Horseshoe Tunnel			Feet	2,139 Ft.	18 Ft.	18.0 in.	1 ea.		2,139 Ft.			Added 50 feet to tunnel length to account for outlet structure needed to tie into new outfall extension
	Concrete			Cu. Yds.	92 Sq. Ft.			1 ea.		2,139 Ft.	7,288 Cu. Yds.		Used circular area for tunnel x-section, close to horseshoe
	20' long 2" x 4" Steel Flat Bar for Armor	Steel Flat Bar	ASTM A36	Tons	20 Ft.	2.0 in.	4.0 in.	4066 ea.	490 PCF	81,320 Ft.	4,518 Cu. Ft.	1,107 tons	"Rail" replacement
	Typical bent Anchor Plates	Steel Plate	ASTM A36	Tons	14 Ft.	8 Ft.	0.8 in.	322 ea.	490.00 PLF	4,615 Ft.	192 Cu. Yds.	47.1 tons	Similar to Sketch 5 from S3 Refurbish (E) Tunnel, Scaled up for 18' diameter tunnel
	Weld Flat Bars to Anchor Plates	1/4" Fillet Weld		Feet	2.50 in.			48950 ea.		10,198 Ft.			Skip weld, 4 per "rail" to each anchor plate
	Provide flat bar Splice Plates	Steel Plate	ASTM A36	Lbs.	3.00 in.	2 in.	3/8 in.	4066 ea.	490 PCF		5.3 Cu. Ft.	2,594 Lbs.	
	Weld flat bar Splice Plates	1/4" Fillet Weld		Feet	7.00 in.			4066 ea.		2,372 Ft.			Field weld in tunnel
	Finish Concrete Surface - Steel Trowel			Sq. Ft.	2,139 Ft.	18 Ft.		1 ea.		2,139 Ft.	38,502 Sq. Ft.		Perhaps machine finished?
S1 Construct New Tunnel													
	Build new 18' ø Horseshoe Tunnel			Feet	2,220 Ft.	18 Ft.	18.0 in.	1 ea.		2,220 Ft.			Added 50 feet to tunnel length to account for outlet structure needed to tie into new outfall extension
	Concrete			Cu. Yds.	92 Sq. Ft.			1 ea.		2,220 Ft.	7,564 Cu. Yds.		Used circular area for tunnel x-section, close to horseshoe
	20' long 2" x 4" Steel Flat Bar for Armor	Steel Flat Bar	ASTM A36	Tons	20 Ft.	2.0 in.	4.0 in.	4218 ea.	490 PCF	84,360 Ft.	4,687 Cu. Ft.	1,148 tons	"Rail" replacement
	Typical bent Anchor Plates	Steel Plate	ASTM A36	Tons	14 Ft.	8 Ft.	0.8 in.	334 ea.	490.00 PLF	4,787 Ft.	199 Cu. Yds.	48.9 tons	for 18' diameter tunnel
	Weld Flat Bars to Anchor Plates	1/4" Fillet Weld		Feet	2.50 in.			50768 ea.		10,577 Ft.			Skip weld, 4 per "rail" to each anchor plate
	Provide flat bar Splice Plates	Steel Plate	ASTM A36	Lbs.	3.00 in.	2 in.	3/8 in.	4218 ea.	490 PCF		5.5 Cu. Ft.	2,691 Lbs.	
	Weld flat bar Splice Plates	1/4" Fillet Weld		Feet	7.00 in.			4218 ea.		2,461 Ft.			Field weld in tunnel
	Finish Concrete Surface - Steel Trowel			Sq. Ft.	2,220 Ft.	18 Ft.		1 ea.		2,220 Ft.	39,960 Sq. Ft.		Perhaps machine finished?
S8 Construct New Diversion Dam (assumed the same for Alt 3 and Alt 4)													
	Bedrock Excavation (hard rock - not scaling)			Cu. Yds.							350 Cu. Yds.		Dropping down to tunnel entrance
	Soil Excavation (45' below current valley bottom)			Cu. Yds.							150,500 Cu. Yds.		
	Concrete Placement	Roller compacted		Cu. Yds.							67,000 Cu. Yds.		
	Concrete Placement	Formed for Intake		Cu. Yds.							400 Cu. Yds.		
	Backfill	Excavation - Conc.		Cu. Yds.							83,500 Cu. Yds.		I didn't include the rock cut volume as this doesn't get filled

Notes: 1. Quantities have skyrocketed due to excavation to 45' below current grade, need borings to determine depth to bedrock. Valley walls are very steep, and when slope was projected to estimate bedrock surface, resulting depths to bedrock were far beyond the 45' depth of excavation assumed.

2. I've likely caused some confusion regarding how deep I've assumed our excavation will be. I dropped the existing grade 5' vertically to give about 3' of "non-rock" overburden on the valley side slopes. I then found where the side slope to valley floor grade break happens (for the lowered surface) and went 40 feet lower than the lower of the two edges (right side or left side). Thus sometimes I've mentioned 40', but total depth is closer to 45 as the existing surface was already dropped 5.

Structural Quantity Take-Off for S3: Refurbish Existing Tunnel

Item	Fabrication as needed	Description	Specification	Unit	Length	Width/Diameter	Thickness	Count	Wt./Unit	Total Length	Total Vol./Area	Total Weight	Comments
Demolition of Existing 10,000 psi concrete													
	Invert from STA 2+62 to STA 22+09	Hydrodemolition		Cu. Yds.	1,947 Ft.	10 Ft.	7.5 in.	1 ea.		1,947 Ft.	450 Cu. Yds.		See Sketch 2, Depth of hydrodemolition is hard to control.
	PH Reduction for Demolition Material	Treat w/ CO2									450 Cu. Yds.		Tanks and bubbler system
Demolition of Existing 4,000 psi concrete													
	Linear Repairs			Cu. Ft.	24 Ft.	20 in.	2.50 in.	3 ea.		72 Ft.	25.0 Cu. Ft.		
	Saw-Cut @ 45 degree bevel - Linear Repair			Feet	24 Ft.			6 ea.		144 Ft.			Provide undercut edge
	Surface Repairs			Cu. Ft.	17 in.	17 in.	2.50 in.	100 ea.			41.7 Cu. Ft.		
	Saw-Cut @ 45 degree bevel - Surface Repair			Feet	17 in.			400 ea.		567 Ft.			Provide undercut edge
	PH Reduction for Demolition Material	Treat w/ CO2		Cu. Ft.							33.7 Cu. Ft.		Tanks and bubbler system
Repair Invert with Armor and Concrete													
	New 10,000 psi Silica Fume Concrete			Cu. Yds.	1,947 Ft.	10 Ft.	6.8 in.	1 ea.		1,947 Ft.	410 Cu. Yds.		Place and finish in confined tunnel. Screed rails shot to tunnel sides. Finishing and screeding platform supported by screed rails
	Drill (E) rock and concrete for Anchor Plate Anchor Rods	7/8" Ø drill		Feet	14 in.	7/8 in.		879 ea.		1,026 Ft.			Roto-hammer, rock easier to drill than concrete. Base on 10,000 psi concrete dirlling
	Provide 3/4" Ø x 18" long threaded anchor rods	3/4" Ø x 18" long	A307	Lbs.	18 in.	3/4 in.		879 ea.	490 PCF	1,319 Ft.		1,982 Lbs.	Fully threaded
	Plate washers for anchor rods	Steel Plate	ASTM A36	Lbs.	2.5 in.	2.5 in.	5/16 in.	879 ea.	490 PCF		1.0 Cu. Ft.	487 Lbs.	Portland Bolt Standard Product
	Epoxy 3/4" Ø bolts in drilled holes	3/4" Ø bolts	Hilti HIT HY 200	Each				879 ea.					
	Typical bent Anchor Plates	Steel Plate	ASTM A36	Tons	4 Ft.	8 in.	3/4 in.	283 ea.	490 PCF	1,132 Ft.	47.2 Cu. Ft.	11.6 tons	See Sketch 5 for required holes and bending
	STA 21+51 Anchor Plate	Steel Plate	ASTM A36	Lbs.	4 Ft.	8 in.	3/4 in.	1 ea.	490 PCF	4 Ft.	0.2 Cu. Ft.	82 Lbs.	See Sketch 10 for required holes and bending
	Flat Anchor Plates	Steel Plate	ASTM A36	Lbs.	4.17 Ft.	8 in.	3/4 in.	9 ea.	490 PCF	38 Ft.	1.6 Cu. Ft.	766 Lbs.	See Sketch 11 for required holes
	20' long 2" x 4" Steel Flat Bar for Armor	Steel Flat Bar	ASTM A36	Tons	20 Ft.	2.0 in.	4.0 in.	980 ea.	490 PCF	19,600 Ft.	1,089 Cu. Ft.	267 tons	"Rail" replacement
	Weld Flat Bars to Anchor Plates	1/4" Fillet Weld		Feet	2.50 in.			11720 ea.		2,442 Ft.			Skip weld, 4 per "rail" to each anchor plate
	Provide flat bar Splice Plates	Steel Plate	ASTM A36	Lbs.	3.00 in.	2 in.	3/8 in.	980 ea.	490 PCF		1.3 Cu. Ft.	625 Lbs.	
	Weld flat bar Splice Plates	1/4" Fillet Weld		Feet	7.00 in.			980 ea.		572 Ft.			Field weld in tunnel
	Finish Concrete Surface - Steel Trowel			Sq. Ft.	1,947 Ft.	10 Ft.		1 ea.		1,947 Ft.	19,470 Sq. Ft.		Hand work in tunnel reaching down from platform, most curved
Wall and Crown Surface - Linear Repairs													
	Drill for #3 hook bars in (E) rock and concrete	7/16" Ø drill		Feet	8 in.	7/16 in.		51 ea.		34 Ft.			Roto--hammer, base on rock drilling rates
	Provide #3 hook bars (90 debree hooks	#3 rebar 90˚ hook	ASTM A615, Gr. 40	Lbs.	18 in.	3/8 in.		51 ea.	0.376 PLF	77 Ft.		29 Lbs.	
	Epoxy #3 hook bars in drilled holes	8" deep hole	Hilti HIT HY 200	Each				51 ea.					
	Provide and tie in place #6 hoop bar	#6 rebar	ASTM A615, Gr. 60	Lbs.	24 Ft.	3/4 in.		3 ea.	1.502 PLF	72 Ft.		108 Lbs.	
	Form and Place Concrete Patch	8,000 psi marine		Cu. Ft.	24 Ft.	20 in.	2.50 in.	3 ea.		72 Ft.	8.3 Cu. Ft.		
Wall and Crown Surface - Surface Repairs													
	Form and Place Concrete Patch	8,000 psi marine		Cu. Ft.	17 in.	17 in.	2.50 in.	100 ea.			41.7 Cu. Ft.		Form on curved wall and crown surfaces
Contact Grout Crown													
	Drill 2" Ø holes in crown at 50' spacing	2" Ø drill		Feet	9 in.	2 in.		43 ea.		32 Ft.			Overhead drilling in tunnel
	Fill crown void with non-shrink grout	Pumpable grout		Cu. Yds.	2,070 Ft.	6 Ft.	3.00 in.	1 ea.		2,070 Ft.	150 Cu. Yds.		Qty. includes 30% waste. Overhead filling of void in tunnel

Structural Quantity Take-Off for S14-18': Extend Tunnel Outlet 150' to Protect Road

Item	Fabrication as needed	Description	Specification	Unit	Length	Width/Diameter	Thickness	Count	Wt./Unit	Total Length	Total Vol./Area	Total Weight	Comments
Drilled Piers - Rolled and Welded Pipe Can													
	P03 - P05	Pipe Can	ASTM A252 Gr 3 (Mod)	Feet	325 Ft.	10 Ft.	1.00 in.	1 ea.	1272.11 PLF	325 Ft.		206.7 tons	Coal Tar Epoxy Coat Exterior & Field Splices. See sketches for individual pile lengths of 90', 110', & 125'
	Drill can into soils	Thru center		Feet	98 Ft.	10 Ft.		1 ea.		98 Ft.			Drill thru center of cans and advance cans into gravel soils
	Drill can into bedrock	Thru center		Feet	132 Ft.	10 Ft.		1 ea.		132 Ft.			Drill thru center of cans and advance cans into bedrock
	Remove soil/rock cuttings from inside of can			Feet	173 Ft.	10 Ft.		1 ea.		173 Ft.	503 Cu. Yds.		Cuttings removed after cans installed
	Concrete fill	4,000 psi concrete		Feet	268 Ft.	9.833 Ft.		1 ea.			754 Cu. Yds.		Gross concrete fill from points of fixity to top of piles
	Vertical rebar cage of #11 bars with lap splices. 60 bars per pile.		ASTM A615 Gr. 60	Feet	18,000 Ft.			1 ea.	5.31 PLF	18,000 Ft.		47.8 tons	Assumes 40' & 60' sticks of rebar and 54" staggered lap splices. 16,890 feet of rebar placed, additional bar is waste related to staggered splicing requirements
	Spiral rebar cage confinement of #4 bars		ASTM A615 Gr. 60	Feet	31,292 Ft.			1 ea.	0.668 PLF	31,292 Ft.		10.5 tons	3" pitch assumed, no splice for spiral bars assumed
Precast Concrete Pile Caps													
	22' long x 12' wide x 4' Avg. thickness	8,000 psi marine		Cu. Yds.	22 Ft.	12 Ft.	4 Ft.	3 ea.	160 PCF		117 Cu. Yds.	253.4 tons	Assume 8,000 psi marine concrete
	Lift caps onto drilled piers							3 ea.				84.5 tons each	
	Cast-in-Place concrete to tie pile caps to piles							2 ea.					No scope developed for feasibility level, work is elevated and capacity must be significant for seismic loads
Cast-In_Place Flume Foundations													
	1) At end of Demo'd. (E) outfall	4,000 psi concrete		Cu. Yds	22 Ft.	5 Ft.	4 Ft.	1 ea.	150 PCF		16 Cu. Yds.	33.0 tons	
	2) At end of (E) Flume	4,000 psi concrete		Cu. Yds	22 Ft.	10 Ft.	7 Ft.	1 ea.	150 PCF		57 Cu. Yds.	116 tons	
	Rock & (E) concrete scaling for 1)			Cu. Yds	5 Ft.	20 Ft.	4 Ft.	1 ea.			15 Cu. Yds.		
	Rock & (E) concrete scaling for 2)			Cu. Yds	10 Ft.	20 Ft.	7 Ft.	1 ea.			52 Cu. Yds.		
	Demo. (E) concrete between 1) and 2)			Cu. Yds	51 Ft.	30 Sq. Ft.		1 ea.	150.00 PCF		57 Cu. Yds.	115 tons	
Precast Concrete Flume Sections													
	12" thick flume w/ 18.5' bottom width	8,000 psi marine		Cu. Yds.	50 Ft.	42.1 Sq. Ft.		4 ea.	170.00 PCF	200 Ft.	312 Cu. Yds.	716 tons	prestressed for camber and crack control not yet completed
	floor embeds for armor attachment	Steel plate	ASTM A36	Tons	214.00 in.	8.00 in.	3/4 in.	44 ea.	490.00 PCF	785 Ft.	32.7 Cu. Ft.	8.0 tons	punched w/ 42x 1 1/2" x 5" slotted holes to facilitate flush placement
	7/8" Ø x 9" long headed anchor studs (HAS)			Each	9.00 in.	7/8 in.		968 ea.	490.00 PCF		5,381 Cu. in.	1,526 Lbs.	22 each machine welded to floor plates
	wall embeds for armor attachment	Steel plate	ASTM A36	Tons	24.00 in.	8.00 in.	3/4 in.	72 ea.	490.00 PCF	144 Ft.	6.0 Cu. Ft.	1.5 tons	punched w/ 4x 1 1/2" x 5" slotted holes to facilitate flush placement
	7/8" x 9" long HAS for wall armor plates			Each	9.00 in.	7/8 in.		216 ea.	490.00 PCF		1,201 Cu. in.	340 Lbs.	3 each machine welded to wall plates
	sand blast or green cut surface to achiive 1/4" amplitude for bonding of CIP			Sq. Ft.	50 Ft.	23.4 Ft.		4 ea.			4,628 Sq. Ft.		Area of armor plates has been subtracted
	Bent Base Plates for Bent HSS Struts	Steel plate, Bent	ASTM A36	Tons	20.00 in.	18.00 in.	1 in.	40 ea.	490.00 PCF	67 Ft.	8.3 Cu. Ft.	2.0 tons	Anchored to top of walls at 10' spacing, not yet detailed
	Bent HSS 12x12x5/8 Struts	HSS (tube)	ASTM A500, Gr B	Tons	382.00 in.	12.00 in.	5/8 in.	20 ea.	93.14 PLF	637 Ft.		29.6 tons	5/16" fillet weld all around at each end to base plate. Bent on a 28'-0" centerline radius and ends cut to fit.
	7/16" fillet weld HSS to Base Plates	Weld	7/16" fillet	Feet	58.00 in.			40 ea.		193 Ft.			
	Lift Flume Sections onto Pile Caps	Critical Lift - 2 cranes		Tons								180 tons	Land based crane lifts
Field Concrete Work for Flume													
	Make connection to concrete pile cap or similar	CIP concrete			20.5 Ft.	12 Ft.		5 ea.					No details at this time, significant seismic forces
	Provide 2" x 4" flat bar armor "rails"	Steel flat bar	ASTM A36	Tons	50 Ft.	2.00 in.	4.00 in.	212 ea.	490.00 PCF	10,600 Ft.	588.9 Cu. Ft.	144.3 tons	43 in floor and 5 each side of flume invert
	Weld flat bar armor "rails" in place	Weld	1/4" field fillet	Feet	10.00 in.			1908 ea.		19,080 Ft.			
	CIP Concrete, 10,000 psi silica fume	CIP concrete	10,000 psi silica fume	Cu. Yds.	50 Ft.			4 ea.	150.00 PCF	200 Ft.	42 Cu. Yds.		
	Finishing CIP concrete	Steel Trowel		Sq. Ft.	50 Ft.	18 Ft.		4 ea.			3,600 Sq. Ft.		

Structural Quantity Take-Off for S18: Protect Tunnel Inlet from Landslide Blockage (Portal Canopy), Existing Location 10' and 18' Ø Horseshoe Tunnels

Item	Fabrication as needed	Description	Specification	Unit	Length/Area	Width/Diameter	Thickness	Count	Wt./Unit	Total Length	Total Vol./Area	Total Weight	Comments
Scaling Excavation													
	Remove overburden and scale existing slope	Work on 60˚ slope		Cu. Yd.	23,520 Sq. Ft.			1 ea.			2,240 Cu. Yds.		Area shown is 3D footprint, 2D footprint is 4,300 Sq. Ft.. Assumes about 3' thickness removal perpendicular to slope
	Cut and remove existing trees from same area	Work on 60˚ slope		Sq. Ft.	23,520 Sq. Ft.								Mostly spruce and alder, not thick, largest tree ~ 12" Ø
Foundation Concrete													
	Concrete footprint area	Work on 60˚ slope		Sq. Ft.	3,584 Sq. Ft.						2,170 Sq. Ft.		3D & 2D areas shown, Assume "rock anchors" at 4' spacing
	Drill existing rock for rebar "rock anchors"	Work on 60˚ slope		Feet	24 in.	1 1/16 in.		154 ea.		308 Ft.			
	Epoxy #8 180˚ hood bars into drilled holes	Work on 60˚ slope	Hilti HIT HY 200	Each	24 in.			154 ea.		308 Ft.			
	Provide #8 rebar with 180˚ hook at one end		ASTM A615, Gr. 60	Feet	60 in.	1 in.		154 ea.	2.67 PLF	770 Ft.		2,056 Lbs.	
	Formwork for foundation concrete	Work on 60˚ slope	custom timber forms	Sq. Ft.	6,748 Sq. Ft.			1 ea.			6,748 Sq. Ft.		Assume difficult forming as steep slope and irregular surface
	Place rebar and embeds for footings	Work on 60˚ slope		Tons					490 PCF		1,270 Cu. Ft.	311.2 tons	Assume rebar and embeds are 5% of concrete volume
	place concrete	Work on 60˚ slope	f'_c = 5,000 psi	Cu. Yd.				1 ea.			336 Cu. Yds.		U-shaped 45˚ sloping top at perimeter of canopy
Steel Girders		W40x372	ASTM A992, Gr. 50									264.0 tons	Some assembly required :)
	STA 1+20 Left			Tons	162 Ft.			1 ea.	372 PLF	162 Ft.		30.2 tons	
	STA 1+20 Right			Tons	213 Ft.			1 ea.	372 PCF	213 Ft.		39.6 tons	
	STA 1+32 Left			Tons	148 Ft.			1 ea.	372 PLF	148 Ft.		27.6 tons	
	STA 1+32 Right			Tons	204 Ft.			1 ea.	372 PCF	204 Ft.		38.0 tons	
	STA 1+44 Left			Tons	126 Ft.			1 ea.	372 PLF	126 Ft.		23.4 tons	
	STA 1+44 Right			Tons	179 Ft.			1 ea.	372 PCF	179 Ft.		33.3 tons	
	STA 1+56 Left			Tons	101 Ft.			1 ea.	372 PLF	101 Ft.		18.7 tons	
	STA 1+56 Right			Tons	126 Ft.			1 ea.	372 PCF	126 Ft.		23.4 tons	
	STA 1+68 Left			Tons	67 Ft.			1 ea.	372 PLF	67 Ft.		12.5 tons	
	STA 1+68 Right			Tons	92 Ft.			1 ea.	372 PCF	92 Ft.		17.2 tons	
Site Cast Roof Panels (fill irregular areas)		Work on 45˚ Roof	6" slab shored slab	Cu. Yd.	4,833 Sq. Ft.		6 in.	7 areas	150 PCF	1,420 Ft.	89 Cu. Yds.	181 tons	Challenging placement and finishing on 45˚ slope
	Low left, STA 1+19.25 to STA 1+44			Cu. Yd.	804 Sq. Ft.		6 in.	1 ea.	150 PCF	10,416 Ft.	14.9 Cu. Yds.	30.1 tons	
	Mid left, STA 1+44 to STA 1+68			Cu. Yd.	974 Sq. Ft.		6 in.	1 ea.	150 PCF		18.0 Cu. Yds.	36.5 tons	
	High left, STA 1+68 to STA 1+82			Cu. Yd.	460 Sq. Ft.		6 in.	1 ea.	150 PCF		8.5 Cu. Yds.	17.2 tons	
	Low right, STA 1+19.25 to STA 1+44			Cu. Yd.	734 Sq. Ft.		6 in.	1 ea.	150 PCF		13.6 Cu. Yds.	27.5 tons	
	Mid right, STA 1+44 to STA 1+68			Cu. Yd.	1,193 Sq. Ft.		6 in.	1 ea.	150 PCF		22.1 Cu. Yds.	44.7 tons	
	High right, STA 1+68 to STA 1+82			Cu. Yd.	555 Sq. Ft.		6 in.	1 ea.	150 PCF		10.3 Cu. Yds.	20.8 tons	
	Ridge at back of canopy			Cu. Yd.	114 Sq. Ft.		6 in.	1 ea.	150 PCF		2.1 Cu. Yds.	4.3 tons	This should actually be put in with the foundation concrete
Precast roof panels (prestressed for crack control)		Work on 45˚ Roof		Cu. Yd.	11,241 Sq. Ft.		6 in.	39 pieces	160 PCF		208 Cu. Yds.	450 tons	Assume fastened similar to composite precast bridge deck panels
	24.75' x 4' STA 1+19.25 to STA 1+44 plank			Cu. Yd.	277 Sq. Ft.		6 in.	25 ea.	160 PCF		45.8 Cu. Yds.	277.2 tons	
	24' x 4' STA 1+44 to STA 1+68 planks			Cu. Yd.	269 Sq. Ft.		6 in.	9 ea.	160 PCF		16.0 Cu. Yds.	96.8 tons	
	38' x 4' STA 1+44 to STA 1+82 planks			Cu. Yd.	426 Sq. Ft.		6 in.	3 ea.	160 PCF		8.4 Cu. Yds.	51.1 tons	
	24.75' ridge cap STA 1+19.25 to STA 1+44			Cu. Yd.	277 Sq. Ft.		6 in.	1 ea.	160 PCF		1.6 Cu. Yds.	3.5 tons	special 90˚ angled cross section
	38' ridge cap STA 1+44 to STA 1+82			Cu. Yd.	426 Sq. Ft.	12915 6/16 in.	6 in.	1 ea.	160 PCF		2.5 Cu. Yds.	5.3 tons	special 90˚ angled cross section
Notes:	1. Current "design" does not include composite action between girders and roof panels. I believe this could save some $ as girders could likely be significantly lighter.											883 Lbs.	
	2. Should add some $ to cover a façade to keep this from being too much of an eyesore. Metal roof decking to make it look better would get destroyed if/when used.												

16 Feb 2021-from PDT CSRA Meeting, Initial qty was only for one canopy at the new tunnel. The TSP report assumed two-canopy to protect both the existing tunnel and the new tunnel. In order to have qty for two-canopy assume the initial qty multiply by 2.8.

(2) portal canopy = 2.8 x initial qty above

R. Tedrick

Structural Quantity Take-Off for S18: Protect Tunnel Inlet from Landslide Blockage (Portal Canopy), Existing Location 10' and 18'ø Horseshoe Tunnels

Item	Fabrication as needed	Description	Specification	Unit	Length/Area	Width/Diameter	Thickness	Count	Wt./Unit	Total Length	Total Vol./Area	Total Weight	Comments
Scaling Excavation													
	Remove overburden and scale existing slope	Work on 60˚ slope		Cu. Yd.	8,400 Sq. Ft.			1 ea.			800 Cu. Yds.		Area shown is 3D footprint, 2D footprint is 4,300 Sq. Ft.. Assumes about 3' thickness removal perpendicular to slope
	Cut and remove existing trees from same area	Work on 60˚ slope		Sq. Ft.	8,400 Sq. Ft.								Mostly spruce and alder, not thick, largest tree ~ 12" ø
Foundation Concrete													
	Concrete footprint area	Work on 60˚ slope		Sq. Ft.	1,280 Sq. Ft.						775 Sq. Ft.		3D & 2D areas shown, Assume "rock anchors" at 4' spacing
	Drill existing rock for rebar "rock anchors"	Work on 60˚ slope		Feet	24 in.	1 1/16 in.		55 ea.		110 Ft.			
	Epoxy #8 180˚ hood bars into drilled holes	Work on 60˚ slope	Hilti HIT HY 200	Each	24 in.			55 ea.		110 Ft.			
	Provide #8 rebar with 180˚ hook at one end		ASTM A615, Gr. 60	Feet	60 in.	1 in.		55 ea.	2.67 PLF	275 Ft.		734 Lbs.	
	Formwork for foundation concrete	Work on 60˚ slope	custom timber forms	Sq. Ft.	2,410 Sq. Ft.			1 ea.			2,410 Sq. Ft.		Assume difficult forming as steep slope and irregular surface
	Place rebar and embeds for footings	Work on 60˚ slope		Tons					490 PCF		162 Cu. Ft.	39.7 tons	Assume rebar and embeds are 5% of concrete volume
	place concrete	Work on 60˚ slope	f'_c = 5,000 psi	Cu. Yd.				1 ea.			120 Cu. Yds.		U-shaped 45˚ sloping top at perimeter of canopy
Steel Girders		W40x372	ASTM A992, Gr. 50									94.3 tons	Some assembly required :)
	STA 1+20 Left			Tons	58 Ft.			1 ea.	372 PLF	58 Ft.		10.8 tons	
	STA 1+20 Right			Tons	76 Ft.			1 ea.	372 PCF	76 Ft.		14.1 tons	
	STA 1+32 Left			Tons	53 Ft.			1 ea.	372 PLF	53 Ft.		9.9 tons	
	STA 1+32 Right			Tons	73 Ft.			1 ea.	372 PCF	73 Ft.		13.6 tons	
	STA 1+44 Left			Tons	45 Ft.			1 ea.	372 PLF	45 Ft.		8.4 tons	
	STA 1+44 Right			Tons	64 Ft.			1 ea.	372 PCF	64 Ft.		11.9 tons	
	STA 1+56 Left			Tons	36 Ft.			1 ea.	372 PLF	36 Ft.		6.7 tons	
	STA 1+56 Right			Tons	45 Ft.			1 ea.	372 PCF	45 Ft.		8.4 tons	
	STA 1+68 Left			Tons	24 Ft.			1 ea.	372 PLF	24 Ft.		4.5 tons	
	STA 1+68 Right			Tons	33 Ft.			1 ea.	372 PCF	33 Ft.		6.1 tons	
Site Cast Roof Panels (fill irregular areas)		Work on 45˚ Roof	6" slab shored slab	Cu. Yd.	1,726 Sq. Ft.		6 in.	7 areas	150 PCF		32 Cu. Yds.	65 tons	Challenging placement and finishing on 45˚ slope
	Low left, STA 1+19.25 to STA 1+44			Cu. Yd.	287 Sq. Ft.		6 in.	1 ea.	150 PCF		5.3 Cu. Yds.	10.8 tons	
	Mid left, STA 1+44 to STA 1+68			Cu. Yd.	348 Sq. Ft.		6 in.	1 ea.	150 PCF		6.4 Cu. Yds.	13.1 tons	
	High left, STA 1+68 to STA 1+82			Cu. Yd.	164 Sq. Ft.		6 in.	1 ea.	150 PCF		3.0 Cu. Yds.	6.2 tons	
	Low right, STA 1+19.25 to STA 1+44			Cu. Yd.	262 Sq. Ft.		6 in.	1 ea.	150 PCF		4.9 Cu. Yds.	9.8 tons	
	Mid right, STA 1+44 to STA 1+68			Cu. Yd.	426 Sq. Ft.		6 in.	1 ea.	150 PCF		7.9 Cu. Yds.	16.0 tons	
	High right, STA 1+68 to STA 1+82			Cu. Yd.	198 Sq. Ft.		6 in.	1 ea.	150 PCF		3.7 Cu. Yds.	7.4 tons	
	Ridge at back of canopy			Cu. Yd.	41 Sq. Ft.		6 in.	1 ea.	150 PCF		0.8 Cu. Yds.	1.5 tons	This should actually be put in with the foundation concrete
Precast roof panels (prestressed for crack control)		Work on 45˚ Roof		Cu. Yd.	4,015 Sq. Ft.		6 in.	39 pieces	160 PCF		74 Cu. Yds.	161 tons	Assume fastened similar to composite precast bridge deck panels
	24.75' x 4' STA 1+19.25 to STA 1+44 plank			Cu. Yd.	99 Sq. Ft.		6 in.	25 ea.	160 PCF		45.8 Cu. Yds.	99.0 tons	
	24' x 4' STA 1+44 to STA 1+68 planks			Cu. Yd.	96 Sq. Ft.		6 in.	9 ea.	160 PCF		16.0 Cu. Yds.	34.6 tons	
	38' x 4' STA 1+44 to STA 1+82 planks			Cu. Yd.	152 Sq. Ft.		6 in.	3 ea.	160 PCF		8.4 Cu. Yds.	18.2 tons	
	24.75' ridge cap STA 1+19.25 to STA 1+44			Cu. Yd.	99 Sq. Ft.		6 in.	1 ea.	160 PCF		1.6 Cu. Yds.	3.5 tons	special 90˚ angled cross section
	38' ridge cap STA 1+44 to STA 1+82			Cu. Yd.	152 Sq. Ft.		6 in.	1 ea.	160 PCF		2.5 Cu. Yds.	5.3 tons	special 90˚ angled cross section
Notes:	1. Current "design" does not include composite action between girders and roof panels. I believe this could save some $ as girders could likely be significantly lighter.												
	2. Should add some $ to cover a façade to keep this from being too much of an eyesore. Metal roof decking to make it look better would get destroyed if/when used.												

10.3 ATTACHMENT 3 – Recommended Plan MCACES Cost Estimate Summary

PAGE RESERVED FOR CERTFIED COST REPORT

Lowell CreekTSP Alternatives 4A

C:\Users\J4EN9B9N\Desktop\TEMPORARY\Lowell Creek TSP\TSP Alternative 4A Construct New Flood Diversion System ARA 18' Tunnel\Revised from ATR Comments 29 March 2021
\Files to NWW 31 March 2021

Estimated by	CEPOA-EC-D-CE-BN
Designed by	AK District
Prepared by	Cost Engineering Section
Preparation Date	3/29/2021
Effective Date of Pricing	3/29/2021
Estimated Construction Time	Days

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Description	Quantity	UOM	ContractCost
Contract Cost Summary Report			**91,505,684**
Alternatives 4A	**1.00**	**LS**	**91,505,684**
Mob/Demob	**1.00**	**LS**	**5,192,170**
Mob/Demob Season 1 - Construct NS3, S1, S14 before Winter Shutdown	**1.00**	**EA**	**2,448,409**
Mob/Demob Season 2- Construct S8 and S1 (Constuct New Tunnel) before Winter Shutdown	**1.00**	**EA**	**1,894,775**
Mob/Demob Season 3 - Construct S18 and S3	**1.00**	**EA**	**848,986**
S8 Construct New Diversion Dam 30 ft Height	**1.00**	**LS**	**33,835,348**
Soil Excavation	**150,500.00**	**CY**	**3,479,193**
Roller Compacted Concrete	**67,000.00**	**CY**	**27,484,741**
Backfill with Excavated material	**83,500.00**	**CY**	**494,678**
Bedrock excavation	**350.00**	**CY**	**8,238**
Concrete - Intake Transition for 18' Diameter Tunnel	**400.00**	**CY**	**352,903**
Install bypass conduits	**600.00**	**LF**	**1,432,288**
Construct Temporary Water Diversion	**1.00**	**EA**	**455,214**
Foundation preparation - Clean up and dental concrete	**8,575.00**	**SF**	**128,093**
S1 Construct New Tunnel	**2,220.00**	**LF**	**35,238,371**
Rock Excavation	**25,818.00**	**CY**	**8,937,748**
New 18' Tunnel	**2,220.00**	**LF**	**25,445,785**
Traffic Control	**24.00**	**MO**	**854,838**
Measure NS3. Remove Trees	**52.00**	**ACR**	**558,181**
Measure S3: Refurbish Existing Tunnel	**1.00**	**LS**	**4,842,635**
Demolition of Existing 10,000 psi concrete	**1,947.00**	**LF**	**928,933**
Demolition of Existing 4,000 psi concrete	**783.00**	**LF**	**53,427**
Repair Invert with Armor and Concrete	**1,947.00**	**LF**	**3,734,493**
Wall and Crown Surface - Linear Repairs	**255.00**	**LF**	**4,027**
Wall and Crown Surface - Surface Repairs	**142.00**	**LF**	**3,656**

Description	Quantity	UOM	ContractCost
Contact Grout Crown	**2,070.00**	**LF**	**118,100**
Measure S18. Protect Tunnel Inlet from Landslide Blockage	**1.00**	**LS**	**5,239,990**
Scaling Excavation	**23,520.00**	**SF**	**154,989**
Foundation Concrete	**3,584.00**	**SF**	**1,118,550**
Steel Girders	**1,420.00**	**LF**	**2,493,351**
Site Cast Roof Panels (fill irregular areas)	**9,666.00**	**SF**	**729,489**
Precast roof panels (prestressed for crack control)	**12,915.00**	**SF**	**743,611**
Measure S14 - 18': 150' Extend Tunnel Outlet into Resurrection Bay	**1.00**	**LS**	**6,598,989**
Drilled Piers - Rolled and Welded Pipe Can	**325.00**	**LF**	**1,900,405**
Concrete Pile Caps	**792.00**	**SF**	**149,197**
Cast-In_Place Flume Foundations	**2,160.00**	**SF**	**103,808**
Precast Concrete Flume Sections	**8,420.00**	**SF**	**3,750,989**
Traffic Control	**6.00**	**MO**	**213,709**
Utilities Relocation	**1.00**	**EA**	**480,881**

10.4 ATTACHMENT 4 – Cost and Schedule Risk Analysis Report

PAGE RESERVED FOR CERTFIED COST REPORT

Project Development Stage/Alternative: Feasibility (TSP) - For Milestone #2

Risk Category: High Risk: Complex Project or Life Safety

Meeting Date: 2/16/2021

Schedule Duration — Jul-2025 (From Month/Year) — Nov-2029 (From Month/Year) — **Schedule Duration:** 48.0 Months — 42% (Schedule Contingency)

80% Finish Date: Aug-2031

	WBS	Feature of Work		Contract Cost	% Contingency		$ Contingency		Total
	Risk Not included within CSRA Model								
	01 LANDS AND DAMAGES	Real Estate	$	5,750	20%	$	1,150	$	6,900
	Risk included within CSRA Model								
1	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	**NS3 - Tree removal**	$	575,938	45%	$	259,172	$	835,110
2	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	**S1 - Construct 18' Tunnel**	$	36,359,411	45%	$	16,361,735	$	52,721,146
3	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	**S8 - Construct New Diversion Dam 30' Height**	$	36,478,578	45%	$	16,415,360	$	52,893,938
4	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	**S18 - Protect Tunnel Inlet from Landslide Blockage**	$	5,406,690	45%	$	2,433,011	$	7,839,701
5	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	**S14 - 18': 150' Extend Tunnel Outlet into Resurrection Bay**	$	6,925,620	45%	$	3,116,529	$	10,042,149
6	15 FLOODWAY CONTROL AND DIVERSION STRUCTURES	**S3 - Refurbish Existing Tunnel**	$	4,996,694	45%	$	2,248,512	$	7,245,206
7	32 01 MOB, DEMOB & PREPARATORY WORK	**Mob/Demob**	$	5,357,349	45%	$	2,410,807	$	7,768,156
8	OTHER		$	-	0%	$	-	$	-
9			$	-	0%	$	-	$	-
10			$	-	0%	$	-	$	-
11			$	-	0%	$	-	$	-
12			$	-	0%	$	-	$	-
13			$	-	0%	$	-	$	-
14			$	-	0%	$	-	$	-
15			$	-	0%	$	-	$	-
16			$	-	0%	$	-	$	-
17			$	-	0%	$	-	$	-
18			$	-	0%	$	-	$	-
19			$	-	0%	$	-	$	-
20			$	-	0%	$	-	$	-
21			$	-	0%	$	-	$	-
22			$	-	0%	$	-	$	-
23			$	-	0%	$	-	$	-
24	DDC Costs	**Planning, Engineering, & Design**	$	11,846,000	45%	$	5,330,700	$	17,176,700
25	S&A	**Construction Management**	$	18,037,000	45%	$	8,116,650	$	26,153,650
XX	FIXED DOLLAR RISK ADD (EQUALLY DISPERSED TO ALL, MUST INCLUDE JUSTIFICATION SEE BELOW)					$	-		

Totals					
Real Estate	$	5,750	20%	$	1,150	$	6,900.00
Total Construction Estimate	$	96,100,280	45%	$	43,245,126	$	139,345,406
Total Planning, Engineering & Design	$	11,846,000	45%	$	5,330,700	$	17,176,700
Total Construction Management	$	18,000,000	45%	$	8,100,000	$	26,100,000
Fixed Dollar Risk Equally Distributed	$	-	0%	$	-	$	-
Total	**$**	**125,952,030**	**0%**	**$**	**56,676,976**	**$**	**182,629,006**

Contingency on Base Estimate	80% Confidence Project Cost	
Base Construction Estimate	$91,505,684	
Baseline Estimate Cost Contingency Amount ->	$30,196,876	33%
Baseline Estimate Construction Cost (80% Confidence) ->	$121,702,560	

Contingency on Schedule	80% Confidence Project Schedule	
Project Base Schedule Duration ->	48.0 Months	
Schedule Contingency Duration ->	20.2 Months	42%
Project Schedule Duration (80% Confidence) ->	68.2 Months	

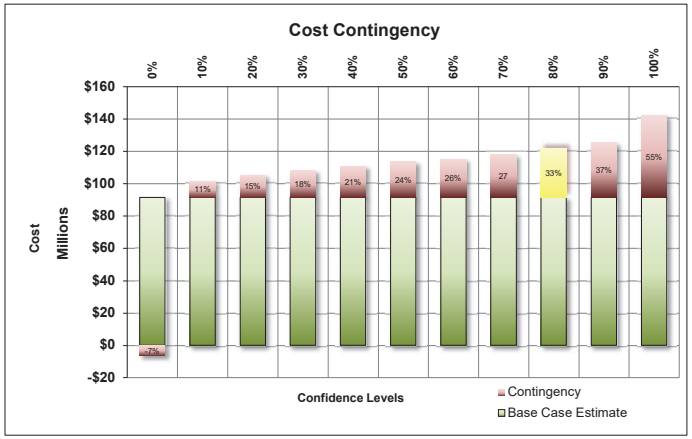
Lowell Creek Flood Diversion

- PROJECT CONTINGENCY DEVELOPMENT -

INITIAL CONSTRUCTION

Contingency Analysis

Base Case Estimate	$91,505,684	
Confidence Level	**Contingency Value**	**Contingency**
0%	-6,405,398	-7%
10%	10,065,625	11%
20%	13,725,853	15%
30%	16,471,023	18%
40%	19,216,194	21%
50%	21,961,364	24%
60%	23,791,478	26%
70%	26,536,648	29%
80%	**30,196,876**	**33%**
90%	33,857,103	37%
100%	50,328,126	55%

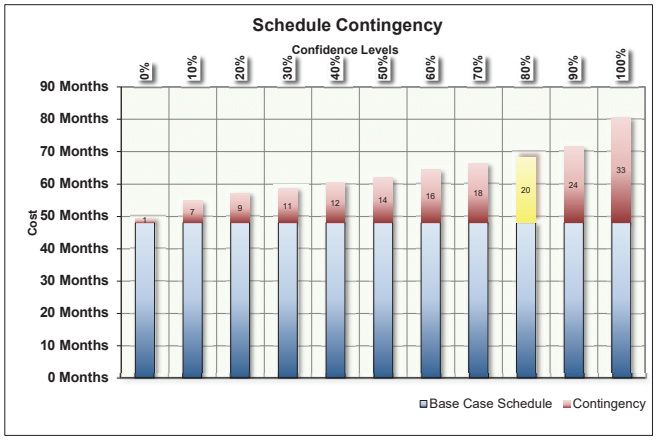


Lowell Creek Flood Diversion

- SCHEDULE CONTINGENCY (DURATION) DEVELOPMENT -

Contingency Analysis

Base Case Schedule	48.0 Months	
Confidence Level	**Contingency Value**	**Contingency**
0%	1 Months	3%
10%	7 Months	14%
20%	9 Months	19%
30%	11 Months	22%
40%	12 Months	26%
50%	14 Months	29%
60%	16 Months	34%
70%	18 Months	38%
80%	**20 Months**	**42%**
90%	24 Months	49%
100%	33 Months	68%

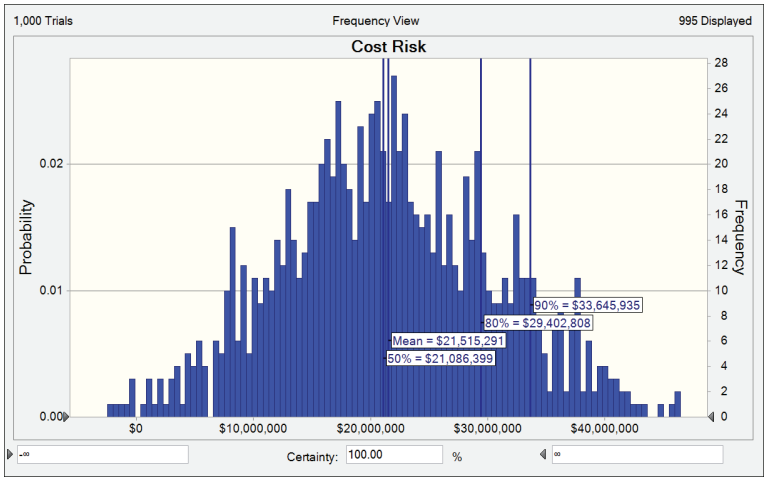


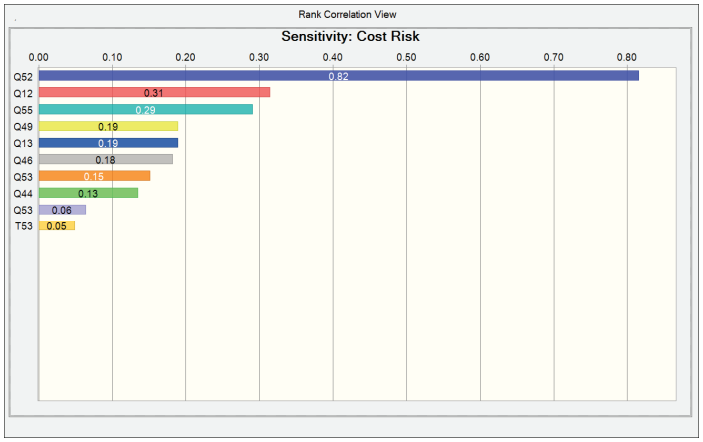
Contingency on Base Estimate		
Base Construction Estimate	**$91,505,684**	
Baseline Estimate Cost Contingency Amount ->	$30,196,876	**33%**
Baseline Estimate Construction Cost (80% Confidence) ->	**$121,702,560**	

Contingency on Schedule		
Project Base Schedule Duration ->	**48.0 Months**	
Schedule Contingency Duration ->	20.2 Months	42%
Project Schedule Duration (80% Confidence) ->	**68.2 Months**	

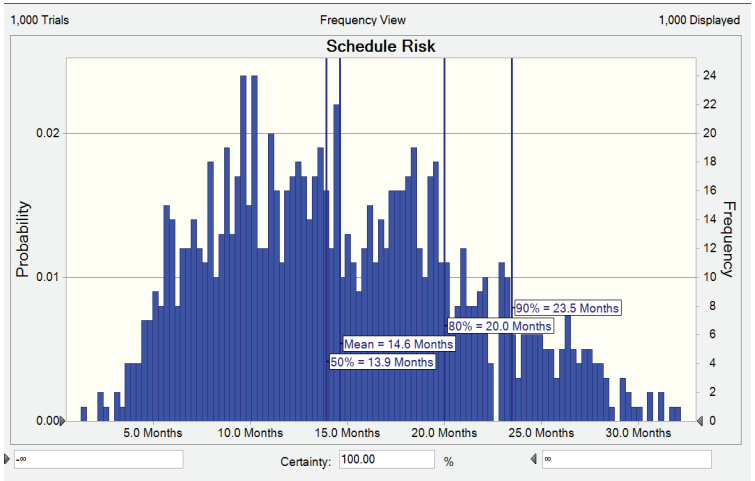
Lowell Creek Flood Diversion

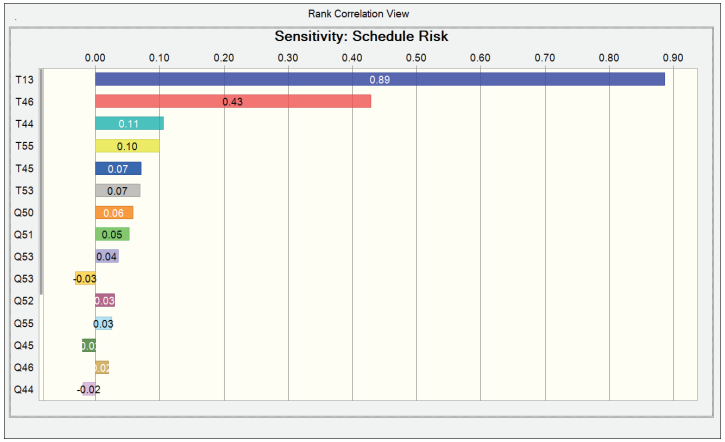
- Cost Outputs Distribution and Sensitivity -





- Schedule Outputs Distribution and Sensitivity -





10.5 ATTACHMENT 5 – Total Project Cost Summary and Certified Cost

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****** TOTAL PROJECT COST SUMMARY ******

PROJECT: **Lowell Creek Flood Diversion**
PROJECT NO: P2 406736
LOCATION: Seward, AK

DISTRICT: **Alaska District**
POC: **CHIEF, COST ENGINEERING, Karl Harvey**

PREPARED: **04/23/2021**

This Estimate reflects the scope and schedule in report; Lowell Creek Feasibility Report

Civil Works Work Breakdown Structure		ESTIMATED COST				PROJECT FIRST COST (Constant Dollar Basis)						TOTAL PROJECT COST (FULLY FUNDED)			
						Program Year (Budget EC): 2021									
						Effective Price Level Date: 1 OCT 20									
WBS NUMBER	Civil Works Feature & Sub-Feature Description	COST ($K)	CNTG ($K)	CNTG (%)	TOTAL ($K)	ESC (%)	COST ($K)	CNTG ($K)	**TOTAL ($K)**	Spent Thru: **1-Oct-20** ($K)	**TOTAL FIRST COST** ($K)	INFLATED (%)	COST ($K)	CNTG ($K)	FULL ($K)
A	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*I*	*J*		*K*	*L*	*M*	*N*	*O*
10	Mob/Demob	$5,357	$2,411	45.0%	$7,768	0.0%	$5,357	$2,411	$7,768	$0	$7,768	20.4%	$6,450	$2,902	$9,352
15	NS3 - Tree removal	$576	$259	45.0%	$835	0.0%	$576	$259	$835	$0	$835	20.4%	$693	$312	$1,005
15	S1 - Construct 18' Tunnel	$36,359	$16,362	45.0%	$52,721	0.0%	$36,359	$16,362	$52,721	$0	$52,721	20.4%	$43,775	$19,699	$63,473
15	S8 - Construct New Diversion Dam 30' Height	$36,479	$16,415	45.0%	$52,894	0.0%	$36,479	$16,415	$52,894	$0	$52,894	20.4%	$43,918	$19,763	$63,681
15	S18 - Protect Tunnel Inlet from Landslide Block	$5,407	$2,433	45.0%	$7,840	0.0%	$5,407	$2,433	$7,840	$0	$7,840	20.4%	$6,509	$2,929	$9,439
15	S14 - 18': 150' Extend Tunnel Outlet into Resur	$6,430	$2,893	45.0%	$9,323	0.0%	$6,430	$2,893	$9,323	$0	$9,323	20.4%	$7,741	$3,483	$11,224
15	S3 - Refurbish Existing Tunnel	$4,997	$2,249	45.0%	$7,245	0.0%	$4,997	$2,249	$7,245	$0	$7,245	20.4%	$6,016	$2,707	$8,723
02	Utilities Relocation	$496	$223	45.0%	$719	0.0%	$496	$223	$719	$0	$719	20.4%	$597	$269	$866
	CONSTRUCTION ESTIMATE TOTALS:	$96,100	$43,245		$139,346	0.0%	$96,100	$43,245	$139,346	$0	$139,346	20.4%	$115,699	$52,065	$167,764
01	LANDS AND DAMAGES	$6	$1	20.0%	$7	0.0%	$6	$1	$7	$0	$7	20.4%	$7	$1	$8
30	PLANNING, ENGINEERING & DESIGN	$12,560	$5,652	45%	$18,212	0.0%	$12,560	$5,652	$18,212	$0	$18,212	15.1%	$14,459	$6,506	$20,965
31	CONSTRUCTION MANAGEMENT	$19,076	$8,584	45%	$27,660	0.0%	$19,076	$8,584	$27,660	$0	$27,660	27.1%	$24,237	$10,907	$35,144
	PROJECT COST TOTALS:	$127,742	$57,483	45.0%	$185,225		$127,742	$57,483	**$185,225**	$0	**$185,225**	20.9%	$154,402	$69,479	$223,881

ESTIMATED TOTAL PROJECT COST: **$223,881**

_____ **CHIEF, COST ENGINEERING, Karl Harvey**

_____ **PROJECT MANAGER, Steve Howard**

_____ **CHIEF, REAL ESTATE, Gary Hanson**

_____ **CHIEF, PLANNING, Cindy Upah**

_____ **CHIEF, ENGINEERING SERVICES, Doug Bliss**

_____ **CHIEF, OPERATIONS, Julie Anderson**

_____ **CHIEF, CONSTRUCTION, Mark DeRocchi**

_____ **CHIEF, CONTRACTING,Chris Tew**

_____ **CHIEF, PM-PB, Karen Farmer**

_____ **CHIEF, DPM-CW, Bruce Sexauer**

****** TOTAL PROJECT COST SUMMARY ******

****** CONTRACT COST SUMMARY ******

PROJECT: Lowell Creek Flood Diversion
LOCATION: Seward, AK
This Estimate reflects the scope and schedule in report; Lowell Creek Feasibility Report

DISTRICT: Alaska District
POC: CHIEF, COST ENGINEERING, Karl Harvey

PREPARED: 04/23/2021

Civil Works Work Breakdown Structure		ESTIMATED COST				PROJECT FIRST COST (Constant Dollar Basis)				TOTAL PROJECT COST (FULLY FUNDED)				
		Estimate Prepared:			04/09/2021	Program Year (Budget EC):			2021					
		Effective Price Level:			1-Oct-20	Effective Price Level Date:			1 OCT 20					
				RISK BASED										
WBS NUMBER	Civil Works Feature & Sub-Feature Description	COST ($K)	CNTG ($K)	CNTG (%)	TOTAL ($K)	ESC (%)	COST ($K)	CNTG ($K)	TOTAL ($K)	Mid-Point Date	INFLATED (%)	COST ($K)	CNTG ($K)	FULL ($K)
A	*B*	*C*	*D*	*E*	*F*	*G*	*H*	*I*	*J*	*P*	*L*	*M*	*N*	*O*
	Alternative 4A Measures													
10	Mob/Demob	$5,357	$2,411	45.0%	$7,768	0.0%	$5,357	$2,411	$7,768	2027Q3	20.4%	$6,450	$2,902	$9,352
15	NS3 - Tree removal	$576	$259	45.0%	$835	0.0%	$576	$259	$835	2027Q3	20.4%	$693	$312	$1,005
15	S1 - Construct 18' Tunnel	$36,359	$16,362	45.0%	$52,721	0.0%	$36,359	$16,362	$52,721	2027Q3	20.4%	$43,775	$19,699	$63,473
15	S8 - Construct New Diversion Dam 30' Height	$36,479	$16,415	45.0%	$52,894	0.0%	$36,479	$16,415	$52,894	2027Q3	20.4%	$43,918	$19,763	$63,681
15	S18 - Protect Tunnel Inlet from Landslide Blockage	$5,407	$2,433	45.0%	$7,840	0.0%	$5,407	$2,433	$7,840	2027Q3	20.4%	$6,509	$2,929	$9,439
15	S14 - 18': 150' Extend Tunnel Outlet into Resurrection Bay	$6,430	$2,893	45.0%	$9,323	0.0%	$6,430	$2,893	$9,323	2027Q3	20.4%	$7,741	$3,483	$11,224
15	S3 - Refurbish Existing Tunnel	$4,997	$2,249	45.0%	$7,245	0.0%	$4,997	$2,249	$7,245	2027Q3	20.4%	$6,016	$2,707	$8,723
			$0	28.0%	$0	0.0%	$0	$0	$0	0	0.0%	$0	$0	$0
	CONSTRUCTION ESTIMATE TOTALS:	$95,604	$43,022	45.0%	**$138,626**		$95,604	$43,022	$138,626			$115,102	$51,796	$166,898
01	LANDS AND DAMAGES	$6	$1	20.0%	$7	0.0%	$6	$1	$7	2027Q3	20.4%	$7	$1	$8
30	PLANNING, ENGINEERING & DESIGN													
2.0%	Project Management	$1,864	$839	45.0%	$2,703	0.0%	$1,864	$839	$2,703	2024Q1	11.9%	$2,085	$938	$3,024
0.8%	Planning & Environmental Compliance	$765	$344	45.0%	$1,109	0.0%	$765	$344	$1,109	2024Q1	11.9%	$856	$385	$1,241
2.0%	Engineering & Design	$1,912	$860	45.0%	$2,773	0.0%	$1,912	$860	$2,773	2024Q1	11.9%	$2,139	$962	$3,101
1.3%	Reviews, ATRs, IEPRs, VE	$1,195	$538	45.0%	$1,733	0.0%	$1,195	$538	$1,733	2024Q1	11.9%	$1,337	$602	$1,938
1.3%	Life Cycle Updates (cost, schedule, risks)	$1,214	$546	45.0%	$1,761	0.0%	$1,214	$546	$1,761	2024Q1	11.9%	$1,358	$611	$1,969
1.0%	Contracting & Reprographics	$956	$430	45.0%	$1,386	0.0%	$956	$430	$1,386	2024Q1	11.9%	$1,069	$481	$1,551
1.8%	Engineering During Construction	$1,721	$774	45.0%	$2,495	0.0%	$1,721	$774	$2,495	2027Q3	27.1%	$2,186	$984	$3,170
1.0%	Planning During Construction	$956	$430	45.0%	$1,386	0.0%	$956	$430	$1,386	2027Q3	27.1%	$1,215	$547	$1,761
1.0%	Adaptive Management & Monitoring	$956	$430	45.0%	$1,386	0.0%	$956	$430	$1,386	2024Q1	11.9%	$1,069	$481	$1,551
1.0%	Project Operations	$956	$430	45.0%	$1,386	0.0%	$956	$430	$1,386	2024Q1	11.9%	$1,069	$481	$1,551
31	CONSTRUCTION MANAGEMENT													
9.8%	Construction Management	$9,321	$4,195	45.0%	$13,516	0.0%	$9,321	$4,195	$13,516	2027Q3	27.1%	$11,844	$5,330	$17,173
6.0%	Project Operation:	$5,736	$2,581	45.0%	$8,318	0.0%	$5,736	$2,581	$8,318	2027Q3	27.1%	$7,288	$3,280	$10,568
4.1%	Project Management	$3,920	$1,764	45.0%	$5,684	0.0%	$3,920	$1,764	$5,684	2027Q3	27.1%	$4,980	$2,241	$7,222
	CONTRACT COST TOTALS:	$127,083	$57,186		$184,269		$127,083	$57,186	**$184,269**			$153,605	$69,121	**$222,726**

****** TOTAL PROJECT COST SUMMARY ******

****** CONTRACT COST SUMMARY ******

PROJECT: Lowell Creek Flood Diversion
LOCATION: Seward, AK
This Estimate reflects the scope and schedule in report; Lowell Creek Feasibility Report

DISTRICT: Alaska District
POC: CHIEF, COST ENGINEERING, Karl Harvey

PREPARED: 04/23/2021

Civil Works Work Breakdown Structure		ESTIMATED COST				PROJECT FIRST COST (Constant Dollar Basis)				TOTAL PROJECT COST (FULLY FUNDED)				
		Estimate Prepared: 04/09/2021 Effective Price Level: 1-Oct-20				Program Year (Budget EC): 2021 Effective Price Level Date: 1 OCT 20								
WBS NUMBER *A*	Civil Works Feature & Sub-Feature Description *B*	COST ($K) *C*	CNTG ($K) *D*	CNTG (%) *E*	TOTAL ($K) *F*	ESC (%) *G*	COST ($K) *H*	CNTG ($K) *I*	TOTAL ($K) *J*	Mid-Point Date *P*	INFLATED (%) *L*	COST ($K) *M*	CNTG ($K) *N*	FULL ($K) *O*
	Non Federal Funded Items													
15	Utilities Relocation	$496	$223	45.0%	$719	0.0%	$496	$223	$719	2027Q3	20.4%	$597	$269	$866
	CONSTRUCTION ESTIMATE TOTALS:	$496	$223	45.0%	**$719**		$496	$223	$719			$597	$269	$866
01	LANDS AND DAMAGES	$0	$0	0.0%	$0	0.0%	$0	$0	$0	0	0.0%	$0	$0	$0
30	PLANNING, ENGINEERING & DESIGN													
2.0%	Project Management	$10	$4	45.0%	$14	0.0%	$10	$4	$14	2024Q1	11.9%	$11	$5	$16
0.8%	Planning & Environmental Compliance	$4	$2	45.0%	$6	0.0%	$4	$2	$6	2024Q1	11.9%	$4	$2	$6
2.0%	Engineering & Design	$10	$4	45.0%	$14	0.0%	$10	$4	$14	2024Q1	11.9%	$11	$5	$16
1.3%	Reviews, ATRs, IEPRs, VE	$6	$3	45.0%	$9	0.0%	$6	$3	$9	2024Q1	11.9%	$7	$3	$10
1.3%	Life Cycle Updates (cost, schedule, risks)	$6	$3	45.0%	$9	0.0%	$6	$3	$9	2024Q1	11.9%	$7	$3	$10
1.0%	Contracting & Reprographics	$5	$2	45.0%	$7	0.0%	$5	$2	$7	2024Q1	11.9%	$6	$2	$8
1.8%	Engineering During Construction	$9	$4	45.0%	$13	0.0%	$9	$4	$13	2027Q3	27.1%	$11	$5	$16
1.0%	Planning During Construction	$5	$2	45.0%	$7	0.0%	$5	$2	$7	2027Q3	27.1%	$6	$3	$9
1.0%	Adaptive Management & Monitoring	$5	$2	45.0%	$7	0.0%	$5	$2	$7	2024Q1	11.9%	$6	$2	$8
1.0%	Project Operations	$5	$2	45.0%	$7	0.0%	$5	$2	$7	2024Q1	11.9%	$6	$2	$8
31	CONSTRUCTION MANAGEMENT													
9.8%	Construction Management	$48	$22	45.0%	$70	0.0%	$48	$22	$70	2027Q3	27.1%	$61	$28	$89
6.0%	Project Operation:	$30	$13	45.0%	$43	0.0%	$30	$13	$43	2027Q3	27.1%	$38	$17	$55
4.1%	Project Management	$20	$9	45.0%	$29	0.0%	$20	$9	$29	2027Q3	27.1%	$26	$12	$37
	CONTRACT COST TOTALS:	$659	$297		$956		$659	$297	**$956**			$797	$359	**$1,155**