

# **Technical Memorandum**

То:	Mark Witsman, PE Town of McCordsville	Project:	Town of McCordsville, Indiana; Mount Comfort Road CSX Railroad Crossing- Preliminary Planning Services
From:	Kenneth Leo Dombroski, PE Brian McNamara	cc:	
Date:	13 August 2021	Job No.:	6183.0
Subject:	Cost Evaluation of the Dual	Underpa	SS

# 1.0 Dual Underpass Cost Evaluation

# 1.1 Summary of Costs

Project costs are defined in the following categories: capital construction, anticipated professional fees, operation and maintenance, and property acquisition.

# 1.1.1 Opinion of Probable Construction Cost

Capital construction cost are determined through an Opinion of Probable Construction Cost (OPCC). An OPCC has been prepared for the dual underpass alternative. The OPCC is based on the 10% LGT drawings. The total project cost considers direct and indirect costs plus an owner contingency. Direct costs were primarily estimated using bottom-up pricing using detailed quantity take-offs, material unit costs, equipment and labor costs, and production rates for structures. Indirect costs, including Contractor's overhead and profit, were estimated based upon the duration of activities and the estimate of direct costs. The AACE International recommended practices indicate that Class 4 is the appropriate estimate class for designs at only a 10% maturity level. Therefore, a 35% contingency was applied to each estimate. The likely cost of the project is estimated to be \$57,839,000, which is detailed in *Exhibit A*.

## **Key Assumptions for Preparing the OPCC**

- Maintenance of Traffic costs covers the installation of barricades and detour signing when Mt Comfort Rd is closed to construct the new road at the intersections at Broadway and CR800N. The cost includes maintaining these MOT devices during the closure.
- The Utility Relocation includes a cost of \$500k that is meant to cover any secondary impacts that might arise during construction.
- A lump sum direct cost of \$500,000 for each phase of roadway construction was included for Streetscape and Aesthetic Features that includes street lighting, architectural finishes, decorative fencing, and plantings.
- For any demolition of existing structures that is required, a cost of \$25k/Structure was assumed.

15 March 2021 1 McMillen Jacobs Associates

• Costs associated with CSX Flagging and Geotechnical Monitoring services of \$2,000/shift and \$1,300/day respectively was assumed.

#### 1.1.2 Calculation of Fees for Professional Services

At this point of project development, it is appropriate to estimate the necessary professional fees based on a percent of construction. When using this approach, it is customary that projects with smaller capital construction costs use higher percentages to determine design engineering fees. In the case of fees for construction administration and construction inspection, INDOT recommends using 12.5% of the construction cost. The anticipated fees for design engineering are \$5,205,510 (9% of OPCC) and the estimated fees for construction administration and inspection are \$7,229,875 (12.5% of OPCC).

## 1.1.3 Operation and Maintenance Costs

As part of the quantitative analysis, the consultant team estimated the operation and maintenance (O&M) costs associated with each alternative. The key assumptions include the following:

- 1. Only O&M tasks beyond those currently employed by the Town for the existing condition were evaluated. For example, annual painting of pavement makings was ignored because it is a best management practice the Town is already performing and would not be an additional cost regardless of the alternative.
- 2. The service life for the dual underpass is 50 years.
- 3. A significant rehabilitation or improvement will occur in year 25.
- 4. All costs are presented in present day value so that they can be included in the total project costs associated with each alternative.

The O&M costs associated with the dual underpass are shown below in *Table 1-1-3*. It should be noted that the underpass will be serving as a buried structure and have less exposure to the elements.

Table 1-1-3: Operation and Maintenance Cost Based on 50-year Service Life

Operation and Maintenance Cost Based on 50 Year Service Life									
Description	Quantity	Unit Price		Present- Day Value of O&M Cost					
Dual Underpass									
Catch Basin Cleaning	50	\$	14,600.00	\$	730,000.00				
Pump Replacement at Year 20	3	\$	6,000.00	\$	18,000.00				
Annual Usage Stormwater Pump Station	50	\$	3,718.08	\$	185,904.00				
Annual Usage Sanitary Sewer Pump Station	50	\$	1,859.04	\$	92,952.00				
Annual Underpass Inspection	50	\$	10,270.00	\$	513,500.00				
Structural Rehab at Year 25	2	\$	200,000.00	\$	400,000.00				
<u>Total</u>				\$	1,940,356.00				

# 1.1.4 Property Acquisition Costs

The Hancock County Geographic Information System (GIS) was used to obtain information required for the acquisition of property related to the dual underpass alternative. Property boundary surveys were not performed as part of the preliminary planning services. In addition to land acquisition estimates from the Hancock County GIS, the Town provided the consultant team with records pertaining to right-of-way acquisition for the most recent project on Mt. Comfort Road at W. Broadway Road. The cost to acquire property for this recent project was \$610,000 per acre. Since this is the best information available, the Town and the consultant team agreed to apply this price for any land acquisition required for each alternative.

## **Property Acquisition for the Underpass Alternative**

**Figure 1-1-4** shows the dual underpass alternative impacting eleven parcels and requires a total of 9.45 acres. The specific right-of-way acquisition and corresponding costs associated with each impacted parcel are summarized in **Table 1-1-4**.

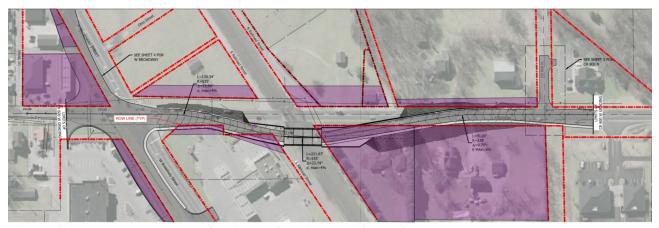


Figure 1-1-4: Property Impacts for the Dual Underpass Alternative

Table 1-1-4: Property Acquisition Required for Dual Underpass Alternative

Underpass Land Acquisition										
Parcel ID	Address	Acres	REQ'D R/W Acquisition	Factored R/W Acquisiton Cost **						
30-01-25-200-001.000-018	7955 N 600 W	6.01	6.01	\$ 3,666,100.00						
30-01-25-200-004.000-018	7919 N 600 W	1.77	1.77	\$ 1,079,700.00						
30-01-25-200-007.001-018	5981 W Broadway	1.81	0.26	\$ 158,600.00						
30-01-25-202-001.000-018	5964 W Broadway	2.76	0.13	\$ 79,300.00						
30-01-26-102-001.000-018	6025 W Broadway	0.61	0.61	\$ 372,100.00						
30-01-26-102-002.000-018	6045 W Broadway	0.21	0.04	\$ 24,400.00						
30-01-26-102-001.001-018	6061 W Broadway	0.15	0.02	\$ 12,200.00						
30-01-26-101-009.000-018	7836 N 600 W	0.65	0.2	\$ 122,000.00						
30-01-26-100-002.000-018	7904 N 600 W	1.45	0.16	\$ 97,600.00						
30-01-26-100-001.003-018	7916 N 600 W	0.19	0.07	\$ 42,700.00						
30-01-26-100-006.002-018	7946 N 600 W	35.99	0.18	\$ 109,800.00						
Total			9.45	\$ 5,764,500.00						

<sup>\*\*</sup>Factored Right-of-way acquisition costs are adjusted based on the town of McCordsville's recent market experience and knowledge. Recent right of way was acquired at approximately \$610,000 per acre.

# 1.1.5 Summary of Project Costs for Dual Underpass Option

Table 1-1-5a shows the total project cost comparison for the dual underpass alternative.

Table 1-1-5a: Comparison of Total Project Costs for Dual Underpass Alternative

	DUAL UNDERPASS
CONSTRUCTION	\$57,839,000
DESIGN ENGINEERING	\$5,205,510
CONSTRUCTION INSPECTION	\$7,229,875
O&M COSTS	\$1,940,356
PROPERTY ACQUISITION	\$5,764,500
PROJECT TOTAL:	\$77,979,241

At first glance, the overall project cost for the dual underpass alternative appears to be unattainable from a financial perspective. This is due primarily to the capital construction cost. However, if the Town succeeds in acquiring federal assistance for the project, federal funds will likely cover all the construction cost. For the initial project implementation, the Town will be responsible for design engineering, construction inspection, and property acquisition. *Table 1-1-5b* illustrates the summary of costs for the dual underpass based on the anticipated participation share on a federal project.

Table 1-1-5b: Summary of Town's Participation Costs on Federal Funded Project

	DUAL UNDERPASS
DESIGN ENGINEERING	\$5,205,510
CONSTRUCTION INSPECTION	\$7,229,875
PROPERTY ACQUISITION	\$5,764,500
TOWN FINANCIAL PARTICIPATION:	\$18,199,885

The key takeaway from this table is that if federal funds can cover the capital construction, the Town's share for an underpass is more attainable.



# **Exhibit A: Opinion of Probable Construction Cost**

Project Client Job No. Estimator Rev Computed on Mt Comfort Road Town of McCordsville, IN 06183.0 RLR/BM 0 7/23/2021

Dual Underpass Construction - 10% Estimate Client Town of McCordsville, IN 1:02 AM

#### OPINION OF PROBABLE UNESCALATED CONSTRUCTION BID INCLUDING OWNER CONTINGENCY

	Item or Group Item Description	Group Item Cost	Item Quantity/Unit	Item Unit Cost	Status Item Cost
001	Geotechnical Instrumentation		LS		\$610,000
	Geotechnical Instrumentation	\$610,000			
002	Maintenance of Traffic		LS		\$148,016
	Maintenance of Traffic	\$148,016			, ,
UU3	Utility Relocation	<b>V</b> 1.0,010	LS		\$2,000,000
003		<b>60 000 000</b>	LO		Ψ2,000,000
	Utility Relocation	\$2,000,000			<b>^</b>
004	Mt Comfort Road - Mobilization / Site Setup		LS		\$53,940
	Mt Comfort Road - Mobilization / Site Setup	\$53,940			
005	Mt Comfort Road - Install Temp Dividing Wall		LS		\$804,266
	Mt Comfort Road - Temporary Wall	\$804,266			
006	Mt Comfort Road - Exc & Support NB Jacking Pit	****,=**	LS		\$1,065,933
	Mt Comfort Road - Pour NB Jacking Slab		370 cy	\$827 /cy	
007		64 070 040	370 Cy	φ62 <i>1 1</i> Cy	\$306,110
	Mt Comfort Road - NB Jacking / Casting Pit	\$1,372,043			
	Mt Comfort Road - Jet Grout Headwall		148 cy	\$1,610 /cy	\$238,303
009	Mt Comfort Rd- Exc & Support NB Receiving Pit		LS		\$1,065,933
010	Mt Comfort Road - Pour NB Mud Mat Receiving Pit		185 cy	\$216 /cy	\$39,940
	Mt Comfort Road - NB Receiving Pit	\$1,344,176	•	•	
011	Mt Comfort Road - Cast NB Culvert #1	<b>4</b> -,,	561 cy	\$1,135 /cy	\$636,675
	Mt Comfort Road - Cast NB Culvert #2		•	\$1,135 /cy	
012		64 070 040	561 cy	φ1,135 /Cy	\$636,675
	Mt Comfort Road - Cast NB Culvert Sections	\$1,273,349			
	Mt Comfort Road - Install Shield		LS		\$205,510
014	Mt Comfort Road - Install Jacking System		LS		\$219,814
015	Mt Comfort Road - Excavate NB Culvert #1		50 ft	\$16,543 /ft	\$827,148
016	Mt Comfort Road - Position NB Culvert #2		LS		\$118,910
	Mt Comfort Road - Excavate NB Culvert #2		50 ft	\$16,543 /ft	\$827,148
	Mt Comfort Road - Remove Jacks & Shield		LS	Ψ10,545 /π	
010		00 500 404	Lo		\$329,901
	Mt Comfort Road - NB Culvert Installation	\$2,528,431			
019	Mt Comfort Road - Excavate & Support NB Wall 2		LS		\$1,365,108
020	Mt Comfort Road - Excavate & Support NB Wall 1		LS		\$715,871
	Mt Comfort Road - Excav & Support NB	\$2,080,979			
021	Mt Comfort Road - Final Wall Facing NB Wall 2		LS		\$619,777
	Mt Comfort Road - Final Wall Facing NB Wall 1		LS		\$504,627
022	Mt Comfort Road - Final Wall Facing NB	\$1,124,403	20		Ψ004,027
000		φ1,124,403	1.0		£4 00E 022
	Mt Comfort Road - Exc & Support SB Jacking Pit		LS		\$1,065,933
024	Mt Comfort Road - Pour SB Jacking Slab		370 cy	\$827 /cy	\$306,110
	Mt Comfort Road - SB Jacking / Casting Pit	\$1,372,043			
025	Mt Comfort Road - Jet Grout Headwall		148 cy	\$1,610 /cy	\$238,303
026	Mt Comfort Rd- Exc & Support SB Receiving Pit		LS	•	\$1,065,933
	Mt Comfort Road - Pour SB Mud Mat Receiving Pit		185 cy	\$216 /cy	\$39,940
02.	Mt Comfort Road - SB Receiving Pit	\$1,344,176	.00 cy	Ψ210 /0	Ψοσ,σ το
000	•	ψ1,5 <del>44</del> ,170	EGG av	¢1 172 /ov	¢663.34F
	Mt Comfort Road - Cast SB Culvert #1		566 cy	\$1,173 /cy	\$663,345
029	Mt Comfort Road - Cast SB Culvert #2		566 cy	\$1,172 /cy	\$663,453
	Mt Comfort Road - Cast SB Culvert Sections	\$1,326,798			
030	Mt Comfort Road - Install Shield		LS		\$203,270
031	Mt Comfort Road - Install Jacking System		LS		\$219,814
	Mt Comfort Road - Excavate SB Culvert #1		56 ft	\$17,304 /ft	\$969,049
	Mt Comfort Road - Position SB Culvert #2		LS	Ψ11,0017π	\$118,910
				¢47.004 / <del>G</del>	
	Mt Comfort Road - Excavate SB Culvert #2		56 ft	\$17,304 /ft	\$969,049
035	Mt Comfort Road - Remove Jacks & Shield		LS		\$329,901
	Mt Comfort Road - SB Culvert Installation	\$2,809,993			
036	Mt Comfort Road - Excavate & Support SB Wall 2		LS		\$1,165,918
037	Mt Comfort Road - Excavate & Support SB Wall 1		LS		\$494,197
	Mt Comfort Road - Excav & Support SB	\$1,660,116			, , ,
กรถ	Mt Comfort Road - Final Wall Facing SB Wall 2	<b>ψ1,000,110</b>	LS		\$672,595
	•				
039	Mt Comfort Road - Final Wall Facing SB Wall 1		LS		\$499,187
	Mt Comfort Road - Final Wall Facing SB	\$1,171,782			
040	Mt Comfort Rd - NB Roadway Construction		LS		\$2,930,000
041	Mt Comfort Rd - Broadway Int. Roadway		LS		\$1,860,000
	Mt Comfort Rd - SB Roadway Construction		LS		\$1,715,000
	Mt Comfort Rd - Roadway Construction	\$6,505,000	==		÷ :,: : =,500
	int John of the Houseway Constitution	ψο,οοο,οοο			



Opinion of Probable Unescalated Construction Bid including Owner Contingency \$57,839,022

**Unescalated Construction Bid** 

35.0% unesc.bid

\$42,843,722

\$14,995,300

LS

#### Table of Contents:

055 Owner Contingency

Jun 2023 NTP: 41 mo project duration

Estimate Notes p2; Schedule p3; Direct Detail p5; Indirect Detail p29; Escalation Detail p32; Contingency Detail p32; Resource Rate and Usage Detail p33; Estimate Metrics p37



NTD	5.00	No. 1 to the colored
NTP	5.00	NTP: 6/1/23
Preliminary Submittals	1.00 5.00 6.00	
044 Equipment Mobilization	\$0 1.00 5.00 6.00	
045 General Mobilization	\$440,938 1.00 5.00 6.00	
046 Demobilization/Punchlist	\$96,838 1.00 45.00 46.00	
001 Geotechnical Instrumentation (Note 4)	\$640,500 12.25 6.00 18.25	
002 Maintenance of Traffic	\$230,886 0.75 6.00 6.75	
003 Utility Relocation (Note 4)	\$2,100,000 2.25 6.75 9.00	
004 Mt Comfort Road - Mobilization / Site Setup	\$84,139 0.25 9.00 9.25	<u> </u>
005 Mt Comfort Road - Install Temp Dividing Wall (Note 4)	\$844,480   1.00   9.25   10.25	
006 Mt Comfort Road - Exc & Support NB Jacking Pit	\$1,662,718 2.75 10.25 13.00	
007 Mt Comfort Road - Pour NB Jacking Slab	\$477,492 0.75 13.00 13.75	
008 Mt Comfort Road - Jet Grout Headwall (Note 4)	\$250,218 0.25 10.25 10.50	
009 Mt Comfort Rd- Exc & Support NB Receiving Pit	\$1,662,718 2.75 10.50 13.25	<del>┤┼┼┼┼┼┼┼┞╚╧╧╧</del> ┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
010 Mt Comfort Road - Pour NB Mud Mat Receiving Pit	\$62,301 0.25 13.25 13.50	
011 Mt Comfort Road - Cast NB Culvert #1	\$993,130 1.00 13.75 14.75	
012 Mt Comfort Road - Cast NB Culvert #2	\$993,130 1.00 14.75 15.75	
013 Mt Comfort Road - Install Shield	\$320,569 0.25 15.75 16.00	
014 Mt Comfort Road - Install Jacking System	\$342,881 0.25 16.00 16.25	
015 Mt Comfort Road - Excavate NB Culvert #1 (Note 5)	\$1,290,244 0.25 16.25 16.50	
2 10 Int Comment Toda Excavate ND Odivert #1 (Note 5)	ψ1,230,244 0.20 10.20 10.00	<del>┤╎╎╎╎╎╎╎╎╎╏╎╎╎<sup>╻</sup>╎╎╎╎╎╎╏</del> ┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼
016 Mt Comfort Road - Position NB Culvert #2	\$185,484 0.25 16.50 16.75	<del>┼┼┼┼┼┼┼┼┼┼┼┼┼┼</del>
		<del></del>
017 Mt Comfort Road - Excavate NB Culvert #2 (Note 5)	\$1,290,244 0.25 16.75 17.00	
018 Mt Comfort Road - Remove Jacks & Shield	\$514,603 0.25 17.00 17.25	
019 Mt Comfort Road - Excavate & Support NB Wall 2	\$2,129,392 2.75 17.25 20.00	
020 Mt Comfort Road - Excavate & Support NB Wall 1	\$1,116,667 1.50 20.00 21.50	<del></del>
021 Mt Comfort Road - Final Wall Facing NB Wall 2	\$966,772 1.25 20.00 21.25	
022 Mt Comfort Road - Final Wall Facing NB Wall 1	\$787,153 1.00 21.50 22.50	<del></del>
023 Mt Comfort Road - Exc & Support SB Jacking Pit	\$1,662,718 2.75 22.50 25.25	
024 Mt Comfort Road - Pour SB Jacking Slab	\$477,492 0.50 25.25 25.75	
025 Mt Comfort Road - Jet Grout Headwall (Note 4)	\$250,218   0.25   22.50   22.75	
026 Mt Comfort Rd- Exc & Support SB Receiving Pit	\$1,662,718 2.75 22.75 25.50	
027 Mt Comfort Road - Pour SB Mud Mat Receiving Pit	\$62,301 0.25 25.50 25.75	
028 Mt Comfort Road - Cast SB Culvert #1	\$1,034,732 1.25 25.75 27.00	
029 Mt Comfort Road - Cast SB Culvert #1	\$1,034,732 1.25 23.73 27.00	
029 Mil Comion Road - Cast SB Cuiven #2	\$1,034,901 1.25 27.00 28.25	
		<del></del>
030 Mt Comfort Road - Install Shield	\$317,075 0.25 28.25 28.50	
031 Mt Comfort Road - Install Jacking System	\$342,881 0.25 28.50 28.75	
032 Mt Comfort Road - Excavate SB Culvert #1 (Note 5)	\$1,511,592 0.50 28.75 29.25	
033 Mt Comfort Road - Position SB Culvert #2	\$185,484 0.25 29.25 29.50	
034 Mt Comfort Road - Excavate SB Culvert #2 (Note 5)	\$1,511,592 0.50 29.50 30.00	
035 Mt Comfort Road - Remove Jacks & Shield	\$514,603	<del>┤╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎</del> ╏
036 Mt Comfort Road - Excavate & Support SB Wall 2	\$1,818,682 2.75 30.25 33.00	<del>┤╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎</del> ┩
		<del>╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎</del> ┩
037 Mt Comfort Road - Excavate & Support SB Wall 1	\$770,884 1.25 33.00 34.25	
038 Mt Comfort Road - Final Wall Facing SB Wall 2	\$1,049,162 1.25 33.00 34.25	
039 Mt Comfort Road - Final Wall Facing SB Wall 1	\$778,667   1.00   34.25   35.25	
040 Mt Comfort Rd - NB Roadway Construction (Note 4)	\$3,076,500 4.50 35.25 39.75	
041 Mt Comfort Rd - Broadway Int. Roadway (Note 4)	\$1,953,000 2.00 39.75 41.75	
042 Mt Comfort Rd - SB Roadway Construction (Note 4)	\$1,800,750 3.25 41.75 45.00	
043 Mt Comfort Rd - Install Pump Station	\$1,544,272 3.00 35.25 38.25	<del>┤╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎╎</del> ┪
o to the connect to motern unipotation	ψ1,077,272 0.00 00.20 00.20	
		<del></del>
		<del></del>



Opinion of Probable Unescalated Construction Bid, Duration, and Monthly Progress Payments	\$42,843,722 41.0 months	\$396.8 \$464.9 \$887.1 \$887.1 \$692.8	\$1,135.4K \$1,135.4K \$892.4K \$940.9K \$1,005.9K \$1,032.9K \$1,032.9K \$708.7K \$1,366.9K \$1,366.1K \$863.2K \$863.2K	988.3 988.3 980.2 745.0 745.1 460.5 909.5 909.5 <b>183.9</b> 883.2	038.8 138.5 138.5 138.5 771.7 771.7 719.0 927.7 526.4 526.4 234.2	
		\$4,471.1K	\$13,610.2K	\$14,387.5K	\$10,374.9K	\$0.0K

- 1. Project calendar is based on 9 observed holidays and 20 critical inclement weather days per year distributed monthly as shown in the Estimate Metrics summary on page 37.
- 2. Payments are made 30 days after pay applications including 10% retention which is reduced to 5% after 75% is earned, 28 months after NTP. Payments releasing retention bolded. 50% of the contract is earned 23 months after NTP (Apr 2025).
- 3. Spread \$12.3M indirects \$0.5M mob. Mob/demob paid as scheduled. Bond paid at NTP.
- 4. Indirect costs spread limited to a 5% subcontract markup.
- 5. Activity is based on a 7-day workweek.



Project Mt Comfort Road **Dual Underpass Construction - 10% Estimate**  Client Town of McCordsville, IN

Job No. Estimator 6183.0 RLR/BM

Computed on 7/23/2021 11:02 AM

Rev

0

#### **DIRECT COST DETAIL**

Part	No.		scription chnical Instrumentation		Item Quantity/Unit	Produ	uction rate		er fixed time		Total time work days
Status   (Additive)	JU 1	Georg		ırs Lahor			Material	24	-	<b>44</b> 0	Item Cost
Static (Additive)			mannot								\$610,000
1			Status (Additive)	·	Work schedule			С		Oth	ner OT pay
Days Working Under Tracks   50 days   2 shifts/day   120 shifts   1		1.000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5 0	day/week				
Resource Control   Resource Co			Install & monitor geotechnic	al instrumentation	•						
Second   S			Days Working Under Tracks	60 days	2 shifts/day	120 s	shifts				
S		Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Uni	t Cost	Resource Qua	antity	Resource Cost
Second   S	S	geos	Geotechnical Instr sub				\$120,000 /	LS	1.00 L	S	\$120,000
No.					nitoring						
No.				120.0 sh			. ,				\$240,000
1	S	ains	Automated instrumentation				\$250,000 /	ls	1.00 L	S	\$250,000
1								011			T
					•	Produ	iction rate				
Status (Additive)   This Item It meant to provide budget over the course of the project to set up and take down MOT as needed to hir/shift   O hir/shift	002	Wallic		ıra Lahar			Material	•	•	14	-
Status (Additive)											
Note				Ψ20,012	•		ψου,	C		Oth	
This item it meant to provide budget over the course of the project to set up and take down MOT at seeded Resource Option Resource Option Production rate   Factor   Resource Description   Resource Option   Resource Option   Production rate   Factor   Resource Option   Resource Op		1.000	* *	8 hr/shift		5 (	dav/week				
M   Sts   Small tools and supplies   MOT Crew - Setup MOT   \$3.00 /mhr   448.0 mhr   \$1.36											,
MOT Crew - Setup MOT   Setup	R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Uni	t Cost	Resource Qua	antity	Resource Cost
L   Ifm   Labor FM   Labor Grp 1)   S6,12   S51,94 /mhr   112,0 mhr   S13,65   S1,94 /mhr   S11,60 mhr   S15,65   S1,94 /mhr   S11,60 mhr   S15,65   S1,94 /mhr   S15,65   S15,94 /mhr   S15,65 /mhr   S15,6	М	sts	Small tools and supplies				\$3.00 /	mhr	448.0 n	hr	\$1,344
L   Iab   General Labor (Grp 1)   C   Iag   Flagman (Grp 1)   Flagman (Grp 1)   S5,8   Iag   Flagman (Grp 1)   S5,8   Iag				MOT Crew - Setup	MOT						
Flagman (Grp 1)	L	lfm	Labor FM				\$54.65 /	mhr	112.0 n	nhr	\$6,120
MOT Signage / Message Boards, Cones   2 \$16,050 /LS   2.00 LS   \$32,10	L		` . ,								\$11,635
M   mot   Maintenace of traffic mat*    S   csxf    CSX Flagging   Services   70.00 day   \$1,300 /day   70.00 day   \$91,00     No.   Item Description	L	flag	Flagman (Grp 1)			-	\$51.94 <i>i</i>	mhr	112.0 n	nhr	\$5,817
CSX Flagging   CSX				MOT Signage / Me	essage Boards, Cone					_	
S	M	mot	Maintenace of traffic mat'l	000/ 5/		2	\$16,050 <i>i</i>	LS	2.00 L	S	\$32,100
No.	c	oovfl	CCV Floraina		vices		¢4 200	dayı	70.00 4	<b></b>	¢04.000
1	3	CSXII	CSX Flagging	70.00 day			\$1,300 /	uay	70.00 d	ay	\$91,000
1	No	Item De	scription		Item Quantity/Unit	Produ	iction rate	Oth	er fixed time		Total time
No.			'		•	1 1000	iction rate				
No.   Status (Additive)	•••	• tillity		ırs Labor			Material	Ĭ	•	•	Item Cost
Status (Additive)   8 hr/shift   1 shift/day   5 day/week   0 ther ST pay   0 ther OT pay   1.000   Schedule factor (Normal)   8 hr/shift   1 shift/day   5 day/week   0 hr/shift   0 hr/											\$2,000,000
Relocate existing utilities Relocate 20" watermain Total Duration Resource Qty/Unit Production rate  Utility Relocation Subcontractor For Secondary Impacts  Subcontractor For Secondary Impacts  Subcontractor Subcontrac			Status (Additive)	,	•		•	С		Oth	
Relocate 20" watermain   3000 ft   30 ft/day   50 days   2 crews   50 days   5 days   6 days		1.000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5 0	day/week		0 hr/shift	0	hr/shift
Total Duration			Relocate existing utilities		-	35 c	days (	concu	rrent		
R/T         Code         Resource Description         Resource Qty/Unit         Production rate         Factor         Resource Unit Cost         Resource Quantity         Resource Countity			Relocate 20" watermain	3000 ft	30 ft/day	50 d	days		2 crews		
Utility Relocation Subcontractor   For Secondary Impacts   \$500,000 /LS   \$1.00 LS   \$500,000 /LS   \$1.500,000 /LS   \$1			Total Duration			50 d	days				
S   util   Utility relocation   20" Water Main   3000   If   \$500,000 / LS   1.00   LS   \$500,000 / LS   \$50	R/T	Code	Resource Description			Factor	Resource Uni	t Cost	Resource Qua	antity	Resource Cost
S   util   Utility relocation   \$500,000 /LS   1.00 LS   \$500,000 /LS   1.000 /LS   1.000 LS   \$500,000 /LS   1.000 /				•							
S   20 m   Relocate 20   Water Main   3000   If   \$1,500,00	_			For Secondary Imp	pacts					_	
No.   Item Description   Item Quantity/Unit   Production rate   Other fixed time   Total time	S	util	Utility relocation	00// 14/-4	1		\$500,000 /	LS	1.00 L	S	\$500,000
No.   Item Description   Item Quantity/Unit   Production rate   Other fixed time   Total time   Other Street   Item Quantity		20	Delegate 20" Water Main		location Subcontract	or	<b>¢</b> E00	ıt	2000 I <del>I</del>		¢4 E00 000
Mt Comfort Road - Mobilization / Site Setup         1 LS         5 days         5 work days           manhours manhours manhours and 440         \$31,553         \$10,367         \$12,020         \$0         \$53,94           Status (Additive)         Work schedule         Other ST pay         Other OT pay         Other ST p	3	20WIII	Relocate 20 Water Main	3000 11			\$500 /	11	3000 11		\$1,500,000
Mt Comfort Road - Mobilization / Site Setup         1 LS         5 days         5 work days           manhours manhours manhours and 440         \$31,553         \$10,367         \$12,020         \$0         \$53,94           Status (Additive)         Work schedule         Other ST pay         Other OT pay         Other ST p	No	Item De	scription		Item Quantity/Unit	Produ	iction rate	Oth	er fixed time		Total time
Material   Subcontract   Item Co				Site Setup	•	riout	ction rate	Otti			
440         \$31,553         \$10,367         \$12,020         \$0         \$53,94           Status (Additive)         Work schedule         Other ST pay Other OT	•••			•			Material		-	·	Item Cost
Status (Additive)											\$53,940
Include the control of the c				, , , , , , , , , , , , , , , , , , , ,			, ,-	С		Oth	
Mobilize & setup laydown areas         5 days           R/T         Code         Resource Description         Resource Qty/Unit         Production rate         Factor         Resource Unit Cost         Resource Quantity         Resource Company           M         sts         Small tools and supplies         \$3.00 /mhr         440.0 mhr         \$1,32           Site Crew           L         Ifm         Labor FM         \$54.65 /mhr         40.00 mhr         \$2,18           L         Iab         General Labor (Grp 1)         3         \$51.94 /mhr         120.0 mhr         \$6,23		1.000	,	8 hr/shift		5 (	day/week				
R/T         Code         Resource Description         Resource Qty/Unit         Production rate         Factor         Resource Unit Cost         Resource Quantity         Resource Countity         Resource Quantity         \$1,32               L             Ifm             Labor FM             \$54.65 /mhr             40.00 mhr             \$2,18               L             Ight             General Labor (Grp 1)             3             \$51.65 /mhr             40.00 mhr             \$6,20               L			, ,				•				
Site Crew       L     Ifm     Labor FM     \$54.65 /mhr     40.00 mhr     \$2,18       L     lab     General Labor (Grp 1)     3     \$51.94 /mhr     120.0 mhr     \$6,23	R/T	Code			•	Factor			Resource Qua	antity	Resource Cost
Site Crew       L     Ifm     Labor FM     \$54.65 /mhr     40.00 mhr     \$2,18       L     lab     General Labor (Grp 1)     3     \$51.94 /mhr     120.0 mhr     \$6,23	М	sts	Small tools and supplies				\$3.00 /	mhr	440.0 n	hr	\$1,320
L lab General Labor (Grp 1) 3 \$51.94 /mhr 120.0 mhr \$6,23				Site Crew							
	L										\$2,186
E lp6 Light Plant/Genset, 6kW, 4/1000W 3 \$8.51 /hr 120.0 hr \$1,02			, , ,								\$6,233
	Е	lp6	Light Plant/Genset, 6kW, 4/	1000W		3	\$8.51 /	hr	120.0 h	r	\$1,021



L	eo3+	Excavator >3.5cy (Grp 8)				\$64.06	/mhr	40.00	mhr	\$2,562
Ε	he330	SK330LC Exc 77.8/2.1cy				\$151	/hr	40.00	hr	\$6,041
L	flag	Flagman (Grp 1)				\$51.94	/mhr	40.00	mhr	\$2,078
Ε	cp12	Compressor, trailer 1200cfm				\$77.25	/hr	40.00	hr	\$3,090
Ε	g10	Generator, trailer 10.0kW				\$5.37	/hr	40.00	hr	\$215
L	comp	Compressorman (Grp 5)				\$64.06	/mhr	40.00	mhr	\$2,562
L	efm	Electrician FM				\$114	/mhr	40.00	mhr	\$4,560
L	ejm	Electrician JM			2	\$111	/mhr	80.00	mhr	\$8,903
L	mw	HD Mech/Welder (Grp 1)				\$61.73	/mhr	40.00	mhr	\$2,469
		` ' '	Silt Fence / Fencin	g / Aggregate Base						
М	xmisc	Miscellaneous material	10.00 lot			\$1,070	/lot	10.00	lot	\$10,700
No.	Item De	escription		Item Quantity/Unit	Produ	ction rate	Oth	er fixed time		Total time
005	Mt Co	mfort Road - Install Temp D	ividing Wall	1 LS			2	21 days	21	work days
		manhour	s Labor	Equipment		Material		Subcontract		Item Cost
		712	\$37,921	\$24,209		\$2,136		\$740,000		\$804,266
		Status (Additive)		Work schedule			C	Other ST pay	Oth	ner OT pay
	1.000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5 c	lay/week		0 hr/shift	0	hr/shift
		Temp wall construction between	en NB & SB roads (	cost includes demol	ition)					
		Mobilize & set up						2 days		
		Install wall with steel		16000 sf	1000 s	sf/day	1	6 days		
		Demo Wall		1000 If	200 lf	f/day		5 days		
		Total Duration				,	2	21 days		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Ur		Resource Q	uantity	Resource Cost
M	sts	Small tools and supplies	r tooo ar oo a tyronii	r roddollori rato	, doto.	\$3.00		712.0		\$2,136
•••	0.0	oman toolo and cappings	Support Crew			ψ0.00	,			ΨΞ,
L	lfm	Labor FM				\$54.65	/mhr	168.0	mhr	\$9,181
Ĺ	lab	General Labor (Grp 1)			2	\$51.94		336.0		\$17,452
	_	` . ,			2					
L	flag	Flagman (Grp 1)				\$51.94		168.0		\$8,726
E		Compressor, trailer 1200cfm			_	\$77.25		168.0		\$12,978
Е	lp6	Light Plant/Genset, 6kW, 4/10	000W		3	\$8.51		504.0		\$4,288
Е	g10	Generator, trailer 10.0kW				\$5.37	/hr	168.0	hr	\$902
			Wall Subcontractor	r						
S	twm	SOE sub mob	1.00 LS			\$100,000	/LS	1.00	LS	\$100,000
S	tws	SOE wall w/ steel	16000 sf			\$40.00	/sf	16000	st	\$640,000
S	tws	SOE wall w/ steel				\$40.00	/sf	16000	st	\$640,000
			Demo Crew	8 00 mhr/day						
L	eo3+	Excavator >3.5cy (Grp 8)	Demo Crew 5.00 day	8.00 mhr/day 8.00 hr/day		\$64.06	/mhr	40.00	mhr	\$2,562
	eo3+		Demo Crew	8.00 mhr/day 8.00 hr/day			/mhr		mhr	
L	eo3+ he330	Excavator >3.5cy (Grp 8)	Demo Crew 5.00 day	•	Produ	\$64.06	/mhr /hr	40.00	mhr hr	\$2,562
L E	eo3+ he330	Excavator >3.5cy (Grp 8) 9 SK330LC Exc 77.8/2.1cy escription	Demo Crew 5.00 day 5.00 day	8.00 hr/day	Produ	\$64.06 \$151	/mhr /hr	40.00 40.00 her fixed time	mhr hr	\$2,562 \$6,041
L E	eo3+ he330	Excavator >3.5cy (Grp 8) SK330LC Exc 77.8/2.1cy	Demo Crew 5.00 day 5.00 day	8.00 hr/day  Item Quantity/Unit 1 LS	Produ	\$64.06 \$151	/mhr /hr	40.00 40.00	mhr hr	\$2,562 \$6,041 Total time
L E	eo3+ he330	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  escription  mfort Road - Exc & Support  manhour	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor	8.00 hr/day  Item Quantity/Unit 1 LS  Equipment	Produ	\$64.06 \$151 action rate	/mhr /hr	40.00 40.00 Her fixed time 18 days Subcontract	mhr hr	\$2,562 \$6,041 Total time work days Item Cost
L E	eo3+ he330	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  escription  mfort Road - Exc & Support  manhour  7,120	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor	8.00 hr/day  Item Quantity/Unit 1 LS Equipment \$284,907	Produ	\$64.06 \$151	/mhr /hr Oth	40.00 40.00 er fixed time 18 days Subcontract \$303,345	mhr hr 48	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933
L E	eo3+ he330 Item De	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  escription  mfort Road - Exc & Support  manhour  7,120  Status (Additive)	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule		\$64.06 \$151 action rate Material \$50,047	/mhr /hr Oth	40.00 40.00 er fixed time 18 days Subcontract \$303,345 Other ST pay	mhr hr 48	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay
L E	eo3+ he330 Item De	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  escription  mfort Road - Exc & Support  manhour  7,120  Status (Additive)  Schedule factor (Normal)	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day	5 c	\$64.06 \$151 action rate Material \$50,047	/mhr /hr Oth	40.00 40.00 er fixed time 18 days Subcontract \$303,345	mhr hr 48	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933
L E	eo3+ he330 Item De	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription  Import Road - Exc & Support  manhour  7,120  Status (Additive) Schedule factor (Normal)  Soil nail & shotcrete installation	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day	5 c	\$64.06 \$151 action rate Material \$50,047 day/week	/mhr /hr Oth	40.00 40.00 Her fixed time 18 days Subcontract \$303,345 Other ST pay 0 hr/shift	mhr hr 48	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay
L E	eo3+ he330 Item De	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription  Import Road - Exc & Support  Manhour  7,120  Status (Additive) Schedule factor (Normal)  Soil nail & shotcrete installation	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy	5 c 2 c 250 c	\$64.06 \$151 action rate Material \$50,047 day/week crews	/mhr /hr Oth	40.00 40.00  Her fixed time 18 days Subcontract \$303,345  Other ST pay 0 hr/shift	mhr hr 48	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay
L E	eo3+ he330 Item De	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription  Import Road - Exc & Support  Tanhour  7,120  Status (Additive) Schedule factor (Normal)  Soil nail & shotcrete installation Excavation per level  Install soil nails per level	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  & SB  1445 bcy 18 ea	5 c 2 c 250 c 4 e	\$64.06 \$151 action rate Material \$50,047 day/week crews cy/day ea/dy	/mhr /hr Oth	40.00 40.00 er fixed time 48 days Subcontract \$303,345 other ST pay 0 hr/shift	mhr hr 48	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay
L E	eo3+ he330 Item De	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription  Infort Road - Exc & Support  Tanhour  7,120  Status (Additive) Schedule factor (Normal)  Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy	5 c 2 c 250 c 4 e	\$64.06 \$151 action rate Material \$50,047 day/week crews	/mhr /hr Oth	40.00 40.00  Her fixed time 18 days Subcontract \$303,345  Other ST pay 0 hr/shift	mhr hr 48	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay
L E	eo3+ he330 Item De	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription Expression From the Status (Additive) Schedule factor (Normal)  Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level Number of levels	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  & SB  1445 bcy 18 ea	5 c 2 c 250 c 4 e	\$64.06 \$151 action rate Material \$50,047 day/week crews cy/day ea/dy	/mhr /hr Ottr 2	40.00 40.00 er fixed time 18 days Subcontract \$303,345 other ST pay 0 hr/shift	mhr hr 48	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay
L E	eo3+ he330 Item De	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription  Infort Road - Exc & Support  Tanhour  7,120  Status (Additive) Schedule factor (Normal)  Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy	5 c 2 c 250 c 4 e	\$64.06 \$151 action rate Material \$50,047 day/week crews cy/day ea/dy	/mhr /hr Ottr 2	40.00 40.00 er fixed time 48 days Subcontract \$303,345 other ST pay 0 hr/shift	mhr hr 48	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay
L E No. 006	eo3+ he330 Item De	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription Expression From the Status (Additive) Schedule factor (Normal)  Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level Number of levels	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy	5 c 2 c 250 c 4 e	\$64.06 \$151 action rate Material \$50,047 day/week crews cy/day ea/dy	/mhr /hr	40.00 40.00  er fixed time 8 days Subcontract \$303,345  Other ST pay O hr/shift  6 5 1  8 days Resource Q	mhr hr 48 Ott 0	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift
No. <b>006</b>	eo3+ he330 Item De 6 Mt Co	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription  Infort Road - Exc & Support  Tanhour  7,120  Status (Additive) Schedule factor (Normal)  Soil nail & shotcrete installation  Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor 427,634  10 hr/shift on - Two crews NB 8	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 e 2 c	\$64.06 \$151 Interior rate  Material \$50,047  day/week crews cry/day cy/day cy/hr	/mhr /hr	40.00 40.00  er fixed time 8 days Subcontract \$303,345  Other ST pay O hr/shift  6 5 1  8 days Resource Q	mhr hr 48 Ott	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift
L E No. 006	eo3+ he330 Item De 6 Mt Co	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription Expression (Secretary Control of the Control of th	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor 427,634  10 hr/shift on - Two crews NB 8	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 e 2 c	\$64.06 \$151 Interior rate  Material \$50,047  day/week crews cry/day cy/day cy/dry Resource Ur	/mhr /hr	40.00 40.00  er fixed time 8 days Subcontract \$303,345  Other ST pay O hr/shift  6 5 1  8 days Resource Q	mhr hr 48 Ott 0	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift
L E No. 006	eo3+ he330 Item De 6 Mt Co 1.000	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription Expression (Secretary Control of the Control of th	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor 427,634  10 hr/shift on - Two crews NB 8	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 e 2 c	\$64.06 \$151 Interior rate  Material \$50,047  day/week crews cry/day cy/day cy/hr  Resource Ur 5.241%	/mhr /hr	40.00 40.00  er fixed time  8 days Subcontract \$303,345  Other ST pay O hr/shift  6 5 1  8 days Resource Q \$40	mhr hr 48 Ott 0	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift
No. 006	eo3+ he330 Item De 6 Mt Co 1.000	Excavator >3.5cy (Grp 8)  SK330LC Exc 77.8/2.1cy  Excription Expression (Secretary Control of the Control of th	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB &	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 e 2 c	\$64.06 \$151 Interior rate  Material \$50,047  day/week crews cy/day ea/dy ea/dy ea/dy Exy/hr  Resource Ur 5.241% \$3.00	/mhr /hr Oth 2	40.00 40.00  er fixed time 88 days Subcontract \$303,345 Other ST pay 0 hr/shift 6 5 1 88 days Resource Q \$40	Mhr hr 48 Ott 0	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360
L   E   No.   006	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm	Excavator >3.5cy (Grp 8)  2 SK330LC Exc 77.8/2.1cy  Description  Description  Description  Description  Description  Description  Description  Description  Total (Additive)  Schedule factor (Normal)  Soil nail & shotcrete installative  Excavation per level  Install soil nails per level  Number of levels  Total duration  Resource Description  Labor premium  Small tools and supplies  Labor FM	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB &	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 6 2 c	\$64.06 \$151 Interior rate  Material \$50,047  day/week crews cry/day cy/day cy/hr  Resource Ur 5.241%	/mhr /hr Oth 2	40.00 40.00  er fixed time 88 days Subcontract \$303,345  Other ST pay O hr/shift  6 5 1 88 days Resource Q \$40 7120	mhr hr  48  Ott 0  uantity 6,337 mhr mhr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231
L   E   No.   006	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm Iab	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Description Tomfort Road - Exc & Support Tomanhours T,120  Status (Additive) Schedule factor (Normal)  Soil nail & shotcrete installative Excavation per level Install soil nails per level Number of levels Total duration Resource Description  Labor premium Small tools and supplies  Labor FM General Labor (Grp 1)	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB &	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 e 2 c	\$64.06 \$151 Interior rate  Material \$50,047  day/week crews cy/day ea/dy ea/dy ea/dy ea/dy ea/dy 5241% \$3.00 \$54.65 \$51.94	/mhr /hr Oth 2 C	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 Other ST pay 0 hr/shift 6 5 1 1 88 days Resource Q \$40 7120 480.0 960.0	mhr hr  48  Ott 0  uantity 6,337 mhr mhr mhr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863
R/T L M L L L L	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm Iab flag	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  escription omfort Road - Exc & Support manhour. 7,120  Status (Additive) Schedule factor (Normal)  Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1)	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB &	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 e 2 c	\$64.06 \$151 Intion rate  Material \$50,047 Itay/week crews cy/day ca/dy cy/hr  Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94	/mhr /hr Oth 2 C	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 Other ST pay 0 hr/shift 6 5 1 1 88 days Resource Q \$40 7120 480.0 960.0 480.0	mhr hr 48  Ott 0  uantity 6,337 mhr mhr mhr mhr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931
R/T L M L L L L L	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm Iab flag c45-	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Find Transfer	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB &	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 6 2 c	\$64.06 \$151 Intion rate  Material \$50,047  Iday/week  Brews Bry/day Bry/hr  Resource Ur  5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06	/mhr /hr Oth / C C / / / / / / / / / / / / / / / /	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 Other ST pay 0 hr/shift 6 5 1 1 88 days Resource Q \$40 7120 480.0 960.0 480.0 960.0	uantity 6,337 mhr mhr mhr mhr mhr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494
R/T L M L L L L L	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm Iab flag c45- Io4+	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Experimental Exc & Support Manhours 7,120  Status (Additive) Schedule factor (Normal) Soil nail & shotcrete installative Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10)	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB &	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 6 2 c Factor	\$64.06 \$151 Introduction rate  Material \$50,047  Iday/week  Brews Bry/day Bray/day Bray/hr  Resource Ur  5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06	/mhr /hr Oth / C C / /mhr /mhr /mhr /mhr /mhr /mhr	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 Other ST pay 0 hr/shift 6 5 1 18 days Resource Q \$40 7120 480.0 960.0 480.0 960.0 480.0	uantity 6,337 mhr mhr mhr mhr mhr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494 \$30,747
R/T L M L L L L E	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm Iab flag c45- Io4+ hc40	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Experimental Exc & Support Franchise Total duration Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105'	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB &	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 e 2 c	\$64.06 \$151 Material \$50,047 day/week crews cy/day cy/hr Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76	/mhr /hr Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2 Oth 2	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 Other ST pay 0 hr/shift 6 5 1 18 days Resource Q \$40 7120 480.0 960.0 480.0 960.0 480.0 960.0	uantity 6,337 mhr mhr mhr mhr hr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494 \$30,747 \$83,290
R/T L M L L L L E E E	eo3+ he330 Item De i Mt Co  1.000  1.000  Code Ip sts Ifm lab flag c45- lo4+ hc40 l914	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Experimental Exc & Support Franchist (Additive) Schedule factor (Normal) Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB &	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 6 2 c Factor	\$64.06 \$151 Material \$50,047 day/week crews cy/day cy/hr Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56	/mhr /hr Oth A Oth	40.00 40.00 er fixed time 18 days Subcontract \$303,345 Other ST pay 0 hr/shift 6 5 1 1 8 days Resource Q \$40 7120 480.0 960.0 480.0 960.0 480.0 960.0 480.0	uantity 6,337 mhr mhr mhr mhr hr hr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494 \$30,747 \$83,290 \$15,628
R/T L M L L L E E E E	eo3+ he330 Item De i Mt Co  1.000  1.000  Code Ip sts Ifm lab flag c45- lo4+ hc40 l914 cp12	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Experimental Exc & Support Final Managemental Exc & Support Final Excavation Per level Excavation Excav	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB &	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 6 2 c Factor	\$64.06 \$151 Material \$50,047 day/week crews cy/day ca/dy cy/hr Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25	/mhr Oth A O	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 other ST pay 0 hr/shift 6 5 1 1 8 days Resource Q \$40 7120 480.0 960.0 480.0 960.0 480.0 960.0 480.0 960.0 480.0	uantity 6,337 mhr mhr mhr mhr hr hr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494 \$30,747 \$83,290 \$15,628 \$37,081
R/T L M L L L E E E E E	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm lab flag c45- lo4+ hc40 l914 cp12 g10	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Experimental Exc & Support Figure 1,120  Status (Additive) Schedule factor (Normal) Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB &	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 6 2 c Factor	\$64.06 \$151 Material \$50,047 day/week crews cy/day ca/dy cy/hr Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37	/mhr /hr Otth // C  // C  // C  // C  // Mhr // Mhr // Mhr // Mhr // hr // hr // hr	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 Other ST pay 0 hr/shift 6 5 1 18 days Resource Q \$40 7120 480.0 960.0 480.0 960.0 480.0 960.0 480.0 960.0 480.0 480.0	uantity 6,337 mhr mhr mhr mhr hr hr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494 \$30,747 \$83,290 \$15,628 \$37,081 \$2,577
R/T L M L L L E E E E	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm lab flag c45- lo4+ hc40 l914 cp12 g10	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Experimental Exc & Support Figure 1,120  Status (Additive) Schedule factor (Normal) Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5)	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB 8	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 6 2 c Factor	\$64.06 \$151 Material \$50,047 day/week crews cy/day ca/dy cy/hr Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25	/mhr /hr Otth // C  // C  // C  // C  // Mhr // Mhr // Mhr // Mhr // hr // hr // hr	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 other ST pay 0 hr/shift 6 5 1 1 8 days Resource Q \$40 7120 480.0 960.0 480.0 960.0 480.0 960.0 480.0 960.0 480.0	uantity 6,337 mhr mhr mhr mhr hr hr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494 \$30,747 \$83,290 \$15,628 \$37,081
R/T L M L L L E E E E E	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm lab flag c45- lo4+ hc40 l914 cp12 g10	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Experimental Exc & Support Figure 1,120  Status (Additive) Schedule factor (Normal) Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB 8	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 6 2 c Factor	\$64.06 \$151 Material \$50,047 day/week crews cy/day ca/dy cy/hr Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37	/mhr /hr Oth A Oth	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 Other ST pay 0 hr/shift 6 5 1 18 days Resource Q \$40 7120 480.0 960.0 480.0 960.0 480.0 960.0 480.0 960.0 480.0 480.0	uantity 6,337 mhr mhr mhr hr hr hr hr hr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494 \$30,747 \$83,290 \$15,628 \$37,081 \$2,577
R/T L M L L L E E E E L L	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm lab flag c45- lo4+ hc40 l914 cp12 g10 comp lp6	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Experimental Exc & Support Figure 1,120  Status (Additive) Schedule factor (Normal) Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5)	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor \$427,634  10 hr/shift on - Two crews NB 8	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 e 2 c Factor	\$64.06 \$151 Material \$50,047 day/week crews cy/day ca/dy cy/hr Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06	/mhr /hr Oth 2 C Milt Cost /mhr /mhr /mhr /hr /hr /hr /hr	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 other ST pay 0 hr/shift 6 5 1 1 88 days Resource Q \$40 7120 480.0 960.0 480.0 960.0 480.0 960.0 480.0 480.0 480.0 480.0 480.0	uantity 6,337 mhr mhr mhr hr hr hr hr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494 \$30,747 \$83,290 \$15,628 \$37,081 \$2,577 \$30,747
R/T L M L L L L E E E L E L E	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm lab flag c45- lo4+ hc40 l914 cp12 g10 comp lp6	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Experimental Exc & Support Figure 1,120  Status (Additive) Schedule factor (Normal) Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10	Demo Crew 5.00 day 5.00 day  NB Jacking Pit Labor 9 \$427,634 10 hr/shift on - Two crews NB 8  Resource Qty/Unit  Support Crew	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 e 2 c Factor	\$64.06 \$151 Material \$50,047 day/week crews cy/day ca/dy cy/hr Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51	/mhr /hr Oth 2 C Milt Cost /mhr /mhr /mhr /hr /hr /hr /hr	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 other ST pay 0 hr/shift 6 5 1 1 8 days Resource Q \$40 7120 480.0 960.0 480.0 960.0 480.0 960.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0	uantity 6,337 mhr mhr mhr hr hr hr hr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494 \$30,747 \$83,290 \$15,628 \$37,081 \$2,577 \$30,747 \$12,251
R/T L M L L L L E E E L E L E	eo3+ he330 Item De i Mt Co  1.000  Code Ip sts Ifm lab flag c45- lo4+ hc40 l914 cp12 g10 comp lp6	Excavator >3.5cy (Grp 8) 2 SK330LC Exc 77.8/2.1cy  Escription Experimental Exc & Support Figure 1,120  Status (Additive) Schedule factor (Normal) Soil nail & shotcrete installation Excavation per level Install soil nails per level Shotcrete per level Number of levels Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10	Demo Crew 5.00 day 5.00 day  NB Jacking Pit S Labor 9 \$427,634 10 hr/shift on - Two crews NB 8  Resource Qty/Unit  Support Crew	8.00 hr/day  Item Quantity/Unit  1 LS  Equipment \$284,907  Work schedule 1 shift/day  SSB  1445 bcy 18 ea 19 cy 4 ea	5 c 2 c 250 c 4 e 2 c Factor	\$64.06 \$151 Material \$50,047 day/week crews cy/day ca/dy cy/hr Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51	/mhr /hr Oth /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	40.00 40.00 40.00 er fixed time 18 days Subcontract \$303,345 other ST pay 0 hr/shift 6 5 1 1 8 days Resource Q \$40 7120 480.0 960.0 480.0 960.0 480.0 960.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0 480.0	uantity 6,337 mhr mhr mhr hr hr hr hr hr hr hr	\$2,562 \$6,041 Total time work days Item Cost \$1,065,933 ner OT pay hr/shift Resource Cost \$21,297 \$21,360 \$26,231 \$49,863 \$24,931 \$61,494 \$30,747 \$83,290 \$15,628 \$37,081 \$2,577 \$30,747 \$12,251



L L E	lab drill at	General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed	20.00 day 20.00 day	10.00 mhr/day 10.00 mhr/day	6 2 2	\$51.94 \$64.06 \$36.95	/mhr /hr	1200 mh 400.0 mh 960.0 hr	\$25,622 \$35,468
Е	ml30	Man-Lift 30' articulated boom			2	\$16.98		960.0 hr	\$16,305
E	gp	Grout Plant, skid	20.00 day	10.00 hr/day	2	\$16.84		400.0 hr	\$6,734
М	sn	Soil nials	72.00 ea			\$219		72.00 ea	\$15,768
М	CS	Cement - sack	72.00 ea			\$14.98	/ea	72.00 ea	\$1,079
	lob	Conoral Labor (Crn 1)	Excavation Crew	10.00 mbr/dov	2	¢51 04	/mhr	490.0 mb	r ¢24.021
L L	lab	General Labor (Grp 1) Excavator >3.5cy (Grp 8)	24.00 day	10.00 mhr/day 10.00 mhr/day	2 2	\$51.94 \$64.06		480.0 mh 480.0 mh	* /
Ē		SK330LC Exc 77.8/2.1cy	24.00 day 24.00 day	10.00 hr/day	2	\$04.00 \$151		480.0 hr	\$72,493
_	116330	O SKOSOLO EXC 11.0/2.1cy	Shotcrete Crew	10.00 Ili/day	2	ψισι	/111	400.0 111	Ψ12, <del>43</del> 3
L	lab	General Labor (Grp 1)	4.00 day	10.00 mhr/day	6	\$51.94	/mhr	240.0 mh	r \$12,466
Ē	sp2	Shotcrete pot Aliva, 2cy/hr	4.00 day	10.00 hr/day	2	\$38.48		80.00 hr	\$3,079
M	•	Shotcrete	74.00 cy	,		\$160	/cy	74.00 cy	\$11,840
No.		escription		Item Quantity/Unit	Produ	ction rate		er fixed time	Total time
007	Mt Co	omfort Road - Pour NB Jacki	•	370 cy				0 days	10 work days
		manhours		Equipment		Material		Subcontract	Item Cost
		<b>2,100</b> 5.676		\$54,158		\$120,979		<b>\$0</b>	\$306,110
			\$353.98	\$146.37 Work schedule		\$326.97	0	\$0.00 ther ST pay	\$827.32
	1 000	Status (Additive) Schedule factor (Normal)	10 hr/shift	1 shift/day	5.0	lay/week		0 hr/shift	Other OT pay  0 hr/shift
	1.000	Install reinforcement	10 111/511111	44400 lb	150 II	•		0 mhr/day	6 days
		Install jacking support beams		44400 ID	100 11	5/111111	0	O IIIII/day	3 days
		Pour concrete		370 cy					1 days
		Total duration		,					10 days
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource U	nit Cost	Resource Quan	tity Resource Cost
L	lp	Labor premium				5.241%		\$124,4	
M	sts	Small tools and supplies				\$3.00	/mhr	2100 mh	r \$6,300
	16	Labor EM	Support Crew			<b>Φ</b> Ε 4.0Ε	tt	400.0	
L	lfm	Labor FM			_	\$54.65		100.0 mh	
L	lab	General Labor (Grp 1)			2	\$51.94 \$51.94		200.0 mh	•
L L	flag c45-	Flagman (Grp 1) Crane oper. <45t (Grp 9)			2	\$64.06		100.0 mh 200.0 mh	
Ĺ	lo4+	Loader oper. >4cy (Grp 10)			2	\$64.06		100.0 mh	
Ē	hc40	Hydraulic Crane 40ton/105'			2	\$86.76		200.0 hr	\$17,352
Ē	1914	Wheel Loader Cat 914/1.7cy			_	\$32.56		100.0 hr	\$3,256
Е	cp12	Compressor, trailer 1200cfm				\$77.25		100.0 hr	\$7,725
Ε	g10	Generator, trailer 10.0kW				\$5.37	/hr	100.0 hr	\$537
L	comp	Compressorman (Grp 5)				\$64.06	/mhr	100.0 mh	r \$6,406
Ε	lp6	Light Plant/Genset, 6kW, 4/10			3	\$8.51	/hr	300.0 hr	\$2,552
			Slab Crew						
L	lfm	Labor FM			_	\$54.65		100.0 mh	
L	lab :	General Labor (Grp 1)			6	\$51.94		600.0 mh	
L	ifm	Ironworker FM Ironworker JM			1 4	\$72.12 \$69.42		100.0 mh	
L M	ijm c4	Concrete, 4000psi mix			4	\$69.42 \$129		400.0 mh 370.0 cy	r \$27,766 \$47,545
M	xr	Reinforcing steel mat'l	44400 lb			\$0.10	•	44400 lb	\$4,440
M	rp	Reinforcing steel, plain	44400 lb			\$0.49		44400 lb	\$21,756
М	stl12	Steel shapes	57600 lb			\$0.64		57600 lb	\$36,979
L	conc	Concrete equip.oper. (Grp 2)				\$61.73	/mhr	100.0 mh	
Ε	cb130	Conc. Pump, truck 130cy/hr				\$189	/hr	100.0 hr	\$18,898
Ε	vib2	Conc. vibrator, internal, 1.75"			2	\$19.19	/hr	200.0 hr	\$3,838
M	xc	Concrete consumables				\$10.70	/cy	370.0 cy	\$3,959
No.		escription	huall	Item Quantity/Unit	Produ	ction rate		er fixed time	Total time
UUG	WIL CO	omfort Road - Jet Grout Head manhours		148 <b>cy</b> Equipment		Material		6 days Subcontract	6 work days Item Cost
		360		\$18,854		\$1,080		\$196,990	\$238,303
		2.432		\$127.39		\$7.30		\$1,331.01	\$1,610.16
		Status (Additive)	*******	Work schedule		*****	0	ther ST pay	Other OT pay
	1.000	Schedule factor (Normal)	10 hr/shift	1 shift/day	5 d	lay/week		0 hr/shift	0 hr/shift
	-	Jet grout headwall at receivin		structure				<u></u>	
		Mobilize & setup jet grout ope				lays			
		Jet grout	148 cy	200 cy/day		lays			
		Demobilize				lays			
R/T	Code	Total duration Resource Description	Resource Qty/Unit	Production rate	6 C Factor	lays Resource Ui	nit Coot	Resource Quan	tity Resource Cost
17/1	Code	Mosource Description	resource Qty/Offit	r roudolion rate	i actoi	resource U	0081	resource Quali	my resource cost



L	lp	Labor premium		_	5.241%	\$20,315	\$1,065
M	sts	Small tools and supplies			\$3.00 /mhr	360.0 mhr	\$1,080
			Support Crew				
L	lfm	Labor FM			\$54.65 /mhr	60.00 mhr	\$3,279
L	lab	General Labor (Grp 1)		2	\$51.94 /mhr	120.0 mhr	\$6,233
L	flag	Flagman (Grp 1)			\$51.94 /mhr	60.00 mhr	\$3,116
L	lo4+	Loader oper. >4cy (Grp 10)			\$64.06 /mhr	60.00 mhr	\$3,843
Ε	hc40	Hydraulic Crane 40ton/105'		2	\$86.76 /hr	120.0 hr	\$10,411
Ε	1914	Wheel Loader Cat 914/1.7cy			\$32.56 /hr	60.00 hr	\$1,954
Ε	cp12	Compressor, trailer 1200cfm			\$77.25 /hr	60.00 hr	\$4,635
Ε	g10	Generator, trailer 10.0kW			\$5.37 /hr	60.00 hr	\$322
L	comp	Compressorman (Grp 5)			\$64.06 /mhr	60.00 mhr	\$3,843
Ε	lp6	Light Plant/Genset, 6kW, 4/10	W000	3	\$8.51 /hr	180.0 hr	\$1,531
S	muck	Muck disposal	74.00 lcy		\$35.00 /lcy	74.00 lcy	\$2,590
			Jet Grout Subcontractor				
S	jgm	Jet Grouting Mob	1.00 LS		\$150,000 /LS	1.00 LS	\$150,000
S	jg	Jet Grouting			\$300 /cy	148.0 cy	\$44,400

No.		escription		Item Quantity/Unit	Produ	uction rate	Othe	er fixed time		Total time
009	Mt Co	mfort Rd- Exc & Support NE	Receiving Pit	1 LS			48	3 days	48	work days
		manhour		Equipment		Material		Subcontract		Item Cos
		7,120	\$427,634	\$284,907		\$50,047		\$303,345		\$1,065,93
		Status (Additive)		Work schedule			Ot	her ST pay	Oth	er OT pay
	1.000	Schedule factor (Normal)	10 hr/shift	1 shift/day	5 (	day/week	(	) hr/shift	0	hr/shift
		Soil nail & shotcrete installation	on - Two crews NB 8	& SB	2 (	crews				
		Excavation per level		1445 bcy	250 d	cy/day	6	3		
		Install soil nails per level		18 ea	4 €	ea/dy	5	5		
		Shotcrete per level		19 cy	2 (	cy/hr	•	1		
		Number of levels		4 ea						
		Total duration					48	3 days		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Ur	it Cost	Resource Qua	antity	Resource Co
L	lp	Labor premium				5.241%		\$406	337	\$21,29
M	sts	Small tools and supplies				\$3.00	/mhr	7120 n	nhr	\$21,360
			Support Crew							
L	lfm	Labor FM				\$54.65	/mhr	480.0 n	nhr	\$26,23
L	lab	General Labor (Grp 1)			2	\$51.94	/mhr	960.0 n	nhr	\$49,86
L	flag	Flagman (Grp 1)				\$51.94	/mhr	480.0 n	nhr	\$24,93
L	c45-	Crane oper. <45t (Grp 9)			2	\$64.06	/mhr	960.0 n	nhr	\$61,49
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06	/mhr	480.0 n	nhr	\$30,74
Ε	hc40	Hydraulic Crane 40ton/105'			2	\$86.76	/hr	960.0 h	r	\$83,29
Ε	1914	Wheel Loader Cat 914/1.7cy				\$32.56	/hr	480.0 h	r	\$15,62
Ε	cp12	Compressor, trailer 1200cfm				\$77.25	/hr	480.0 h	r	\$37,08
Ε	g10	Generator, trailer 10.0kW				\$5.37	/hr	480.0 h	r	\$2,57
L	comp	Compressorman (Grp 5)				\$64.06	/mhr	480.0 n	nhr	\$30,74
Ε	lp6	Light Plant/Genset, 6kW, 4/1	W000		3	\$8.51	/hr	1440 h		\$12,25
S	muck	Muck disposal	8667 lcy			\$35.00	/lcy	8667 ld	у	\$303,34
			Soil Nail Crew							
L	lfm	Labor FM				\$54.65	/mhr	480.0 n	nhr	\$26,23
L	lab	General Labor (Grp 1)	20.00 day	10.00 mhr/day	6	\$51.94	/mhr	1200 n	nhr	\$62,32
L	drill	Drill operator (Grp 6)	20.00 day	10.00 mhr/day	2	\$64.06	/mhr	400.0 n	nhr	\$25,62
Ε	at	Air track 12' feed			2	\$36.95	/hr	960.0 h	r	\$35,46
Ε	ml30	Man-Lift 30' articulated boom			2	\$16.98	/hr	960.0 h	r	\$16,30
E	gp	Grout Plant, skid	20.00 day	10.00 hr/day	2	\$16.84	/hr	400.0 h	r	\$6,734
M	sn	Soil nials	72.00 ea	•		\$219	/ea	72.00 e	а	\$15,768
M	cs	Cement - sack	72.00 ea			\$14.98	/ea	72.00 e	а	\$1,079
			Excavation Crew							
L	lab	General Labor (Grp 1)	24.00 day	10.00 mhr/day	2	\$51.94	/mhr	480.0 n	nhr	\$24,93
L	eo3+	Excavator >3.5cy (Grp 8)	24.00 day	10.00 mhr/day	2	\$64.06	/mhr	480.0 n	nhr	\$30,74
Ε	he330	SK330LC Exc 77.8/2.1cy	24.00 day	10.00 hr/day	2	\$151	/hr	480.0 h	r	\$72,49
		•	Shotcrete Crew	•						
L	lab	General Labor (Grp 1)	4.00 day	10.00 mhr/day	6	\$51.94	/mhr	240.0 n	nhr	\$12,460
Ε	sp2	Shotcrete pot Aliva, 2cy/hr	4.00 day	10.00 hr/day	2	\$38.48	/hr	80.00 h	r	\$3,079
М	shcrt		74.00 cy	•		\$160	/cy	74.00 c	У	\$11,840



No. <b>010</b>		escription omfort Road - Pour NB Mu	ud Mat	Receiving Pit	Item Quantity/Unit 185 cy	Produ	uction rate	Oth	ner fixed time  1 day	1	Total time work day
		manl	hours 160	Labor <b>\$9,416</b>	Equipment \$5,032		Material <b>\$25,492</b>		Subcontract \$0		Item Cost <b>\$39,940</b>
		0.	.865	\$50.90	\$27.20		\$137.79		\$0.00		\$215.89
		Status (Additive)			Work schedule			(	Other ST pay	Ot	her OT pay
	1.000	Schedule factor (Normal)		10 hr/shift	1 shift/day		day/week		0 hr/shift	0	hr/shift
		Pour concrete Total duration			185 cy		days days				
R/T	Code	Resource Description	F	Resource Qty/Unit	Production rate	Factor	Resource Ui	nit Cost	Resource Q	uantity	Resource Cost
L	lp	Labor premium					5.241%			8,947	\$469
М	sts	Small tools and supplies					\$3.00	/mhr	160.0	,	\$480
L	lfm	Labor FM	S	upport Crew			\$54.65	/mhr	10.00	mhr	\$546
L	lab	General Labor (Grp 1)				2	\$51.94		20.00		\$1,039
L	flag	Flagman (Grp 1)					\$51.94		10.00		\$519
L	c45-	Crane oper. <45t (Grp 9)				2	\$64.06		20.00	mhr	\$1,281
L	lo4+	Loader oper. >4cy (Grp 1					\$64.06		10.00	mhr	\$641
Е	hc40					2	\$86.76	/hr	20.00	hr	\$1,735
Ε	1914	Wheel Loader Cat 914/1.7	7cy				\$32.56	/hr	10.00	hr	\$326
Ξ	cp12	Compressor, trailer 12000	cfm				\$77.25	/hr	10.00	hr	\$773
Ξ	g10	Generator, trailer 10.0kW					\$5.37	/hr	10.00	hr	\$54
_	comp	Compressorman (Grp 5)					\$64.06	/mhr	10.00	mhr	\$641
Ξ	lp6	Light Plant/Genset, 6kW,				3	\$8.51	/hr	30.00	hr	\$255
_	lfm	Labor FM	S	lab Crew			\$54.65	/mhr	10.00	mhr	\$546
	lab	General Labor (Grp 1)				6	\$51.94		60.00		\$3,116
M	c3	Concrete, 3000psi mix				·	\$125		185.0		\$23,033
_		Concrete equip.oper. (Gr	n 2)				\$61.73	•	10.00		\$617
=		Conc. Pump, truck 130cy	. ,				\$189		10.00		\$1,890
M	XC	Concrete consumables	,				\$10.70		185.0		\$1,980
No.	Itom Do	escription			Item Quantity/Unit	Drodu	uction rate	Oth	ner fixed time		Total time
		omfort Road - Cast NB Cu	ulvert #	<b>‡1</b>	561 cy	riout	delion rate		21 days	21	work days
			hours	Labor	Equipment		Material		Subcontract		Item Cost
		5	,080,	\$351,775	\$97,344		\$187,556		\$0		¢626 675
			-	·							\$636,675
		9.	.055	\$627.05	\$173.52		\$334.32		\$0.00		\$1,134.89
		Status (Additive)	-	\$627.05	\$173.52 Work schedule	_	\$334.32	(	\$0.00 Other ST pay		\$1,134.89 her OT pay
	1.000	9. Status (Additive) Schedule factor (Normal)	-	\$627.05 10 hr/shift	\$173.52 Work schedule 1 shift/day		\$334.32 day/week	(	\$0.00 Other ST pay 0 hr/shift		\$1,134.89
	1.000	Status (Additive) Schedule factor (Normal) Set / strip slab forms	-	\$627.05 10 hr/shift 480 sf	\$173.52 Work schedule 1 shift/day 16 sf/mhr	70 r	\$334.32 day/week mhr/day	(	\$0.00 Other ST pay 0 hr/shift 2 days		\$1,134.89 her OT pay
	1.000	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms	-	\$627.05 10 hr/shift 480 sf 4200 sf	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr	70 r 70 r	\$334.32 day/week mhr/day mhr/day	(	\$0.00 Other ST pay 0 hr/shift 2 days 4 days		\$1,134.89 her OT pay
	1.000	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms	.055	\$627.05 10 hr/shift 480 sf 4200 sf 2626 sf	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr	70 r 70 r 70 r	\$334.32 day/week mhr/day mhr/day mhr/day	(	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days		\$1,134.89 her OT pay
	1.000	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment	.055	\$627.05  10 hr/shift  480 sf  4200 sf  2626 sf ###### lb	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr	70 r 70 r 70 r	\$334.32 day/week mhr/day mhr/day		\$0.00 Other ST pay O hr/shift O days d days d days d days d days d days d days		\$1,134.89 her OT pay
	1.000	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours	.055	\$627.05 10 hr/shift 480 sf 4200 sf 2626 sf	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr	70 r 70 r 70 r	\$334.32 day/week mhr/day mhr/day mhr/day	4.0	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days		\$1,134.89 her OT pay
D/T		Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration	.055	\$627.05  10 hr/shift  480 sf  4200 sf  2626 sf ##### lb  4.00 ea	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32 day/week mhr/day mhr/day mhr/day mhr/day	4.0	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days	0	\$1,134.89 her OT pay ) hr/shift
	Code	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description	.055	\$627.05  10 hr/shift  480 sf  4200 sf  2626 sf ###### lb	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr	70 r 70 r 70 r	\$334.32 day/week nhr/day nhr/day nhr/day nhr/day	4.0	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days Resource Q	0 uantity	\$1,134.89 her OT pay hr/shift
-		Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration	.055	\$627.05  10 hr/shift  480 sf  4200 sf  2626 sf ##### lb  4.00 ea	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32 day/week mhr/day mhr/day mhr/day mhr/day	4.0 2 nit Cost	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days Resource Q	uantity 4,256	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519
M	Code lp sts	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies	.055 #	\$627.05  10 hr/shift  480 sf  4200 sf  2626 sf ##### lb  4.00 ea	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32 day/week mhr/day mhr/day mhr/day mhr/day Sesource Ut 5.241% \$3.00	4.0 2 nit Cost /mhr	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days Resource Q \$334 5080	uantity 4,256 mhr	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240
- И	Code  p  sts	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies Labor FM	.055 #	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ###### lb 4.00 ea  Resource Qty/Unit	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32 day/week mhr/day mhr/day mhr/day mhr/day s 8800000000000000000000000000000000000	4.0 2 nit Cost /mhr /mhr	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days Resource Q \$334 5080	uantity 4,256 mhr mhr	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240 \$11,476
L M L	Code Ip sts	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1)	.055 #	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ###### lb 4.00 ea  Resource Qty/Unit	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32  day/week mhr/day mhr/day mhr/day mhr/day \$5.241% \$3.00  \$54.65 \$51.94	4.( 2 nit Cost /mhr /mhr /mhr	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days Resource Q \$333 5080	uantity 4,256 mhr mhr mhr	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240 \$11,476 \$21,815
- M - -	Code  p sts  fm  lab  flag	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1)	# S	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ###### lb 4.00 ea  Resource Qty/Unit	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32 day/week mhr/day mhr/day mhr/day mhr/day \$5.241% \$3.00 \$54.65 \$51.94 \$51.94	4.( 2 nit Cost /mhr /mhr /mhr /mhr	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 20 days 21 days Resource Q \$334 5080 210.0 420.0 210.0	uantity 4,256 mhr mhr mhr mhr	\$1,134.89 her OT pay hr/shift Resource Cost \$17,519 \$15,240 \$11,476 \$21,815 \$10,907
- M - - -	Code  p sts  fm  ab  flag  c45-	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9)	# F	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ###### lb 4.00 ea  Resource Qty/Unit	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32 day/week mhr/day mhr/day mhr/day mhr/day \$5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06	4.0 2 nit Cost /mhr /mhr /mhr /mhr	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 20 days 21 days Resource Q \$333 5080  210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr mhr	\$1,134.89 her OT pay hr/shift Resource Cost \$17,519 \$15,240 \$11,476 \$21,815 \$10,907 \$13,452
- M - - -	Code Ip sts Ifm lab flag c45-lo4+	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1)	.055 # S	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ###### lb 4.00 ea  Resource Qty/Unit	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32 day/week mhr/day mhr/day mhr/day mhr/day \$5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06	4.( 2 nit Cost /mhr /mhr /mhr /mhr /mhr	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 20 days 21 days Resource Q \$333 5080  210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr mhr	\$1,134.89 her OT pay hr/shift Resource Cost \$17,519 \$15,240 \$11,476 \$21,815 \$10,907 \$13,452 \$13,452
- M - - - -	Code Ip sts Ifm Iab flag c45- Io4+ hc40	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1) Hydraulic Crane 40ton/10	.055 # S 0)	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ###### lb 4.00 ea  Resource Qty/Unit	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32 day/week mhr/day mhr/day mhr/day s3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76	4.0 2 nit Cost /mhr /mhr /mhr /mhr /mhr /mhr	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 21 days Resource Q \$333 5080  210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr mhr mhr	\$1,134.89 her OT pay hr/shift Resource Cost \$17,519 \$15,240 \$11,476 \$21,815 \$10,907 \$13,452 \$13,452 \$18,220
M L L L L E E	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1) Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1.	.055 # S 0) 05' 7cy	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32 day/week mhr/day mhr/day mhr/day Resource Un 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56	4.0 2 nit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 20 days 21 days Resource Q \$333 5080  210.0 210.0 210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr mhr hr	\$1,134.89 her OT pay hr/shift Resource Cost \$17,519 \$15,240 \$11,476 \$21,815 \$10,907 \$13,452 \$13,452 \$18,220 \$6,837
- M	Code Ip sts Ifm lab flag c45-lo4+hc40 I914 cp12	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1) Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 1200c	.055 # S 0) 05' 7cy cfm	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32  day/week mhr/day mhr/day mhr/day  Resource Ur  5.241% \$3.00  \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25	4.0 2 /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr	\$0.00  Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 20 days 21 days Resource Q \$336 5080  210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr mhr hr hr hr	\$1,134.89 her OT pay hr/shift Resource Cost \$17,519 \$15,240 \$11,476 \$21,815 \$10,907 \$13,452 \$13,452 \$18,220 \$6,837 \$16,223
- M - - - - - - - - - - - - -	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1) Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 12000 Generator, trailer 10.0kW	.055 # S 0) 05' 7cy cfm	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32  day/week mhr/day mhr/day mhr/day  Resource Ur  5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37	4.0 2 /mhr /mhr /mhr /mhr /mhr /hr /hr /hr	\$0.00  Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 20 days 21 days Resource Q \$336 5080  210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr hr hr hr	\$1,134.89 her OT pay hr/shift Resource Cost \$17,519 \$15,240 \$11,476 \$21,815 \$10,907 \$13,452 \$13,452 \$18,220 \$6,837 \$16,223 \$1,127
- M - - - - - - - - - - - - - - -	Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1thydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 12000 Generator, trailer 10.0kW Compressorman (Grp 5)	.055 # S 0) 05' 7cy cfm	\$627.05  10 hr/shift  480 sf  4200 sf 2626 sf ##### lb  4.00 ea  Resource Qty/Unit	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32  day/week mhr/day mhr/day mhr/day mhr/day  Resource Ut 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06	4.0 /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr	\$0.00  Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days Resource Q \$333 5080  210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr hr hr hr hr hr	\$1,134.89 her OT pay hr/shift Resource Cost \$17,519 \$15,240 \$11,476 \$21,815 \$10,907 \$13,452 \$13,452 \$18,220 \$6,837 \$16,223 \$1,127 \$13,452
- M	Code lp sts lfm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1thydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 12.00c Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW,	.055 # S 0) 05' 7cy cfm	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea  Resource Qty/Unit  upport Crew	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32  day/week mhr/day mhr/day mhr/day mhr/day  Resource Ut 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51	4.0 /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /mhr	\$0.00  Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days  Resource Q \$336 5080  210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr hr hr hr hr hr	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240  \$11,476 \$21,815 \$10,907 \$13,452 \$18,220 \$6,837 \$16,223 \$1,127 \$13,452 \$5,360
- M -  = = = = = = = = = = = = = = = = =	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1) Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 12.00c Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, Pump, trash 205gpm/100	.055 # S 0) 05' 7cy cfm	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea  Resource Qty/Unit  upport Crew	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32  day/week mhr/day mhr/day mhr/day mhr/day  Resource Ut 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73	4.0 /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr	\$0.00  Other ST pay  0 hr/shift  2 days  4 days  5 days  6 days  00 days  21 days  Resource Q  \$333  5080  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0	uantity 4,256 mhr mhr mhr mhr hr hr hr hr hr hr hr	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240  \$11,476 \$21,815 \$10,907 \$13,452 \$13,452 \$18,220 \$6,837 \$16,223 \$1,127 \$13,452 \$5,360 \$2,253
- M -  = = = = = = = = = = = = = = = = =	Code lp sts lfm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1thydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 12.00c Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW,	.055 #  8 0) 05' 7cy cfm 4/1000 fft head	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea  Resource Qty/Unit  upport Crew	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32  day/week mhr/day mhr/day mhr/day mhr/day  Resource Ut 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51	4.0 /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr	\$0.00  Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days  Resource Q \$336 5080  210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr hr hr hr hr hr hr hr	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240  \$11,476 \$21,815 \$10,907 \$13,452 \$18,220 \$6,837 \$16,223 \$1,127 \$13,452 \$5,360
LM LLLEEELEEL	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1) Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1.7 Compressor, trailer 10.0kW Compressor, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, Pump, trash 205gpm/100 Water Treatment Plant Labor FM	.055 #  8 0) 05' 7cy cfm 4/1000 fft head	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea  Resource Qty/Unit  Upport Crew	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r	\$334.32  day/week mhr/day mhr/day mhr/day mhr/day  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$54.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42 \$54.65	4.0 2 mit Cost /mhr /mhr /mhr /mhr /hhr /hr /hr /hr /hr /hr /hr /hr /hr	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days 82335080 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr hr hr hr hr hr hr hr mhr m	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240  \$11,476 \$21,815 \$10,907 \$13,452 \$13,452 \$18,220 \$6,837 \$16,223 \$1,127 \$13,452 \$5,360 \$2,253 \$20,877
	Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm lab	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1) Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1.7 Compressor, trailer 10.0kW Compressor, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, Pump, trash 205gpm/100 Water Treatment Plant Labor FM General Labor (Grp 1)	.055 #  8 0) 05' 7cy cfm 4/1000 fft head	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea  Resource Qty/Unit  Upport Crew	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r Factor	\$334.32  day/week mhr/day mhr/day mhr/day mhr/day  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42 \$54.65 \$51.94	4.0 2 mit Cost /mhr /mhr /mhr /mhr /hhr /hr /hr /hr /hr /hr /hr /hr /hr	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days 82335080  210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr hr hr hr hr hr hr hr mhr m	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240  \$11,476 \$21,815 \$10,907 \$13,452 \$18,220 \$6,837 \$16,223 \$1,127 \$13,452 \$5,360 \$2,253 \$20,877  \$11,476 \$10,907
- M - - - - - - - - - - - - - - - - - -	Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm lab cfm	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1) Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, Pump, trash 205gpm/100 Water Treatment Plant  Labor FM General Labor (Grp 1) Carpenter FM	.055 #  8 0) 05' 7cy cfm 4/1000 fft head	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea  Resource Qty/Unit  Upport Crew	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r 80 r 2	\$334.32  day/week mhr/day mhr/day mhr/day mhr/day  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42  \$54.65 \$51.94 \$75.56	4.0 2 mit Cost /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days Resource Q \$333 5080  210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr hr hr hr hr hr hr hr mhr m	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240  \$11,476 \$21,815 \$10,907 \$13,452 \$18,220 \$6,837 \$16,223 \$1,127 \$13,452 \$5,360 \$2,253 \$20,877  \$11,476 \$10,907 \$15,868
	Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm lab cfm cjm	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip slab forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1) Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, Pump, trash 205gpm/100 Water Treatment Plant  Labor FM General Labor (Grp 1) Carpenter FM Carpenter JM	.055 #  8 0) 05' 7cy cfm 4/1000 fft head	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea  Resource Qty/Unit  Upport Crew	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r 80 r 2 3 3	\$334.32  day/week mhr/day mhr/day mhr/day mhr/day  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42  \$54.65 \$71.94 \$75.56 \$72.85	4.0 2 mit Cost /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	\$0.00  Other ST pay  0 hr/shift  2 days  4 days  5 days  6 days  00 days  21 days  Resource Q  \$333-  5080  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0  210.0	uantity 4,256 mhr mhr mhr mhr hr h	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240  \$11,476 \$21,815 \$10,907 \$13,452 \$18,220 \$6,837 \$16,223 \$1,127 \$13,452 \$5,360 \$2,253 \$20,877  \$11,476 \$10,907 \$15,868 \$91,795
R/T LM LLLLEEEELEEE LLLLLL	Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm lab cfm	Status (Additive) Schedule factor (Normal) Set / strip slab forms Set / strip wall forms Set / strip wall forms Set / strip roof forms Install reinforcment Concrete pours Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 1) Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, Pump, trash 205gpm/100 Water Treatment Plant  Labor FM General Labor (Grp 1) Carpenter FM	.055 #  8 0) 05' 7cy cfm 4/1000 fft head	\$627.05  10 hr/shift  480 sf 4200 sf 2626 sf ##### lb 4.00 ea  Resource Qty/Unit  Upport Crew	\$173.52 Work schedule 1 shift/day 16 sf/mhr 16 sf/mhr 8 sf/mhr 150 lb/mhr 1 ea/day	70 r 70 r 70 r 80 r 80 r 2	\$334.32  day/week mhr/day mhr/day mhr/day mhr/day  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42  \$54.65 \$51.94 \$75.56	4.0 2 mit Cost /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /mhr /hr /mhr /m	\$0.00 Other ST pay 0 hr/shift 2 days 4 days 5 days 6 days 00 days 21 days Resource Q \$333 5080  210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0 210.0	uantity 4,256 mhr mhr mhr mhr hr hr hr hr hr hr mhr hr mhr hr hr	\$1,134.89 her OT pay hr/shift  Resource Cost \$17,519 \$15,240  \$11,476 \$21,815 \$10,907 \$13,452 \$18,220 \$6,837 \$16,223 \$1,127 \$13,452 \$5,360 \$2,253 \$20,877  \$11,476 \$10,907 \$15,868



L E E		Concrete equip.oper. (Grp 2) Conc. Pump, truck 130cy/hr Concrete vibrators	4.00 day 4.00 day	10.00 mhr/day 10.00 hr/day	6	\$61.73 /mh \$189 /hr \$9.33 /hr	r 40.00 mh 40.00 hr 1260 hr	\$2,469 \$7,559 \$11,753
M	lumb	Lumber for lagging/forms	7306 sf	1.50 bf/sf		\$2.35 /bf	10959 bf	\$25,797
М	ply1	Plywood MDO 1"	7306 sf			\$2.46 /sf	7306 sf	\$17,980
М	ff	Form fasteners	7306 sf			\$0.32 /sf	7306 sf	\$2,345
M	foil	Form oil	7306 sf			\$0.16 /sf	7306 sf	\$1,173
M M	cure xf	Curing compound Misc form supplies	7306 sf 7306 sf			\$0.02 /sf \$0.43 /sf	7306 sf 7306 sf	\$156 \$3,127
E	ml30	Man-Lift 30' articulated boom	7300 31		2	\$16.98 /hr	420.0 hr	\$7,134
M	c5	Concrete, 5000psi mix			_	\$136 /cy	561.0 cy	\$76,016
М	хс	Concrete consumables				\$10.70 /cy	561.0 cy	\$6,003
М	rp	Reinforcing steel, plain	67320 lb			\$0.49 /lb	67320 lb	\$32,987
М	xr	Reinforcing steel mat'l	67320 lb			\$0.10 /lb	67320 lb	\$6,732
No.	Item De	escription		Item Quantity/Unit	Produ	iction rate (	Other fixed time	Total time
		mfort Road - Cast NB Culvert	#2	561 cy			21 days	21 work days
		manhours	Labor	Equipment		Material	Subcontract	Item Cost
		5,080	\$351,775	\$97,344		\$187,556	\$0	\$636,675
		9.055	\$627.05	\$173.52		\$334.32	\$0.00	\$1,134.89
	1 000	Status (Additive) Schedule factor (Normal)	10 hr/shift	Work schedule 1 shift/day	5.0	lay/week	Other ST pay  0 hr/shift	Other OT pay  0 hr/shift
	1.000	Set / strip slab forms	480 sf	16 sf/mhr		nhr/day	2 days	O TII/STIIIC
		Set / strip wall forms	4200 sf	16 sf/mhr		nhr/day	4 days	
		Set / strip roof forms	2626 sf	8 sf/mhr	70 n	nhr/day	5 days	
		Install reinforcment	67320 lb	150 lb/mhr	80 n	nhr/day	6 days	
		Concrete pours	4 ea	1 ea/day			4 days	
		Total duration	D 0, #1, "	5			21 days	5
R/T L	Code Ip	Resource Description  Labor premium	Resource Qty/Unit	Production rate	Factor	Resource Unit Co	st Resource Quant	<u> </u>
М	sts	Small tools and supplies				\$3.00 /mh		
•••	0.0	• •	Support Crew			ψοίου /		Ψ.0,2.0
L	lfm	Labor FM				\$54.65 /mh	r 210.0 mh	r \$11,476
L	lab	General Labor (Grp 1)			2	\$51.94 /mh		
L	flag	Flagman (Grp 1)				\$51.94 /mh		
L	c45-	Crane oper. <45t (Grp 9)				\$64.06 /mh		: 1
L E	lo4+ hc40	Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105'				\$64.06 /mh \$86.76 /hr	r 210.0 mh 210.0 hr	r \$13,452 \$18,220
E	1914	Wheel Loader Cat 914/1.7cy				\$32.56 /hr	210.0 hr	\$6,837
Ē	cp12	Compressor, trailer 1200cfm				\$77.25 /hr	210.0 hr	\$16,223
Е	g10	Generator, trailer 10.0kW				\$5.37 /hr	210.0 hr	\$1,127
L	comp	Compressorman (Grp 5)				\$64.06 /mh	r 210.0 mh	r \$13,452
Е	lp6	Light Plant/Genset, 6kW, 4/100			3	\$8.51 /hr	630.0 hr	\$5,360
E		Pump, trash 205gpm/100ft hea	nd			\$10.73 /hr	210.0 hr	\$2,253
Е	wtp	Water Treatment Plant	Structure Crow			\$99.42 /hr	210.0 hr	\$20,877
L	lfm	Labor FM	Structure Crew			\$54.65 /mh	r 210.0 mh	r \$11,476
Ĺ	lab	General Labor (Grp 1)				\$51.94 /mh		
Ĺ	cfm	Carpenter FM			1	\$75.56 /mh		
L	cjm	Carpenter JM			6	\$72.85 /mh		r \$91,795
L	ifm	Ironworker FM			1	\$72.12 /mh	r 210.0 mh	r \$15,146
L	ijm	Ironworker JM			7	\$69.42 /mh		
L	conc	Concrete equip.oper. (Grp 2)	4.00 day	10.00 mhr/day		\$61.73 /mh		
E E	vib	Conc. Pump, truck 130cy/hr Concrete vibrators	4.00 day	10.00 hr/day	6	\$189 /hr \$9.33 /hr	40.00 hr 1260 hr	\$7,559 \$11,753
M	lumb	Lumber for lagging/forms	7306 sf	1.50 bf/sf	O	\$2.35 /bf	10959 bf	\$11,753 \$25,797
M	ply1	Plywood MDO 1"	7306 sf	1.00 51/51		\$2.46 /sf	7306 sf	\$17,980
M	ff	Form fasteners	7306 sf			\$0.32 /sf	7306 sf	\$2,345
М	foil	Form oil	7306 sf			\$0.16 /sf	7306 sf	\$1,173
М	cure	Curing compound	7306 sf			\$0.02 /sf	7306 sf	\$156
М	xf	Misc form supplies	7306 sf		_	\$0.43 /sf	7306 sf	\$3,127
E	ml30	Man-Lift 30' articulated boom			2	\$16.98 /hr	420.0 hr	\$7,134 \$76,046
M M	c5	Concrete, 5000psi mix Concrete consumables				\$136 /cy \$10.70 /cy	561.0 cy 561.0 cy	\$76,016 \$6,003
M	xc rp	Reinforcing steel, plain	67320 lb			\$0.49 /lb	67320 lb	\$6,003 \$32,987
M	xr	Reinforcing steel mat'l	67320 lb			\$0.10 /lb	67320 lb	\$6,732
		<b>5</b>	-			,		, -,



	Item De	escription omfort Road - Install Shield		Item Quantity/Unit 1.00 LS	Produ	uction rate	Oth	er fixed time  3 days	Total time  3 work days
		manhours <b>420</b>	Labor <b>\$25,277</b>	Equipment <b>\$178,973</b>		Material \$1,260		Subcontract <b>\$0</b>	Item Cost \$205,510
	1.000	Status (Additive) Schedule factor (Normal)	10 hr/shift	Work schedule 1 shift/day	5 (	day/week	C	Other ST pay C	other OT pay  Other Shift
		Install shield & steering jacks		3 days		•			
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Ur	nit Cost	Resource Quantity	
L M	lp ete	Labor premium				5.241% \$3.00	/malar	\$24,018 420.0 mhr	\$1,259 \$1,260
IVI	sts	Small tools and supplies	Support Crew			φ3.00	/1111111	420.0 11111	φ1,200
L	lfm	Labor FM				\$54.65	/mhr	30.00 mhr	\$1,639
L	lab	General Labor (Grp 1)			2	\$51.94	/mhr	60.00 mhr	\$3,116
L	flag	Flagman (Grp 1)				\$51.94		30.00 mhr	\$1,558
L	c45-	Crane oper. <45t (Grp 9)				\$64.06		30.00 mhr	\$1,922
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06		30.00 mhr	\$1,922
E	hc40	Hydraulic Crane 40ton/105'				\$86.76		30.00 hr	\$2,603
E E	1914	Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm				\$32.56 \$77.25		30.00 hr 30.00 hr	\$977 \$2,318
E	g10	Generator, trailer 10.0kW				\$5.37		30.00 hr	ş2,310 \$161
L		Compressorman (Grp 5)				\$64.06		30.00 mhr	\$1,922
Ē	lp6	Light Plant/Genset, 6kW, 4/10	00W		3	\$8.51		90.00 hr	\$766
E	•	Pump, trash 205gpm/100ft he			· ·	\$10.73		30.00 hr	\$322
Е	wtp	Water Treatment Plant				\$99.42	/hr	30.00 hr	\$2,982
	·		Shield / Jacking C	rew					
L	lfm	Labor FM				\$54.65	/mhr	30.00 mhr	\$1,639
L	lab	General Labor (Grp 1)			3	\$51.94	/mhr	90.00 mhr	\$4,675
L	c100+	Crane oper. >100t (Grp 11)				\$64.06		30.00 mhr	\$1,922
L	mw	HD Mech/Welder (Grp 1)			2	\$61.73		60.00 mhr	\$3,704
E	ml30				2	\$16.98		60.00 hr	\$1,019
E	we4	Welder 400A, trailer E			2	\$52.93		60.00 hr	\$3,176
E E	cssj to150	Cutting shield steering jacks Truck Crane 150ton/260'				\$646 \$4,842		30.00 hr 30.00 hr	\$19,390 \$145,260
014	WIL CO	mfort Road - Install Jacking	•	1 LS Equipment				•	3 work days
		manhours <b>450</b>	Labor <b>\$28,791</b>	\$178,973		Material <b>\$12,050</b>		Subcontract <b>\$0</b>	
	1 000	450 Status (Additive)	\$28,791	<b>\$178,973</b> Work schedule	5 (	\$12,050	C	<b>\$0</b> Other ST pay	<b>\$219,814</b> Other OT pay
	1.000	450 Status (Additive) Schedule factor (Normal)	<b>\$28,791</b> 10 hr/shift	\$178,973 Work schedule 1 shift/day	5 (		C	<b>\$0</b> Other ST pay	\$219,814
R/T	1.000 Code	450 Status (Additive)	<b>\$28,791</b> 10 hr/shift	<b>\$178,973</b> Work schedule	5 o	\$12,050		<b>\$0</b> Other ST pay	<b>\$219,814</b> Other OT pay O hr/shift
R/T L		Status (Additive) Schedule factor (Normal) Assemble & setup jacking sys	\$28,791 10 hr/shift tem	\$178,973 Work schedule 1 shift/day 3 days		<b>\$12,050</b> day/week		\$0 Other ST pay C O hr/shift	\$219,814 Other OT pay 0 hr/shift r Resource Cos
	Code	Status (Additive) Schedule factor (Normal) Assemble & setup jacking systemsource Description	\$28,791  10 hr/shift tem Resource Qty/Unit	\$178,973 Work schedule 1 shift/day 3 days		\$12,050 day/week Resource Ur	nit Cost	\$0 Other ST pay COO hr/shift  Resource Quantity	\$219,814 Other OT pay 0 hr/shift Resource Cos 7 \$1,434
L	Code lp	Status (Additive) Schedule factor (Normal) Assemble & setup jacking system Description Labor premium	\$28,791 10 hr/shift tem	\$178,973 Work schedule 1 shift/day 3 days		\$12,050 day/week Resource Ur 5.241%	nit Cost /mhr	ther ST pay CO on hr/shift  Resource Quantity \$27,357	\$219,814 Other OT pay O hr/shift A Resource Cos A \$1,434 \$1,350
L M	Code Ip sts	Status (Additive) Schedule factor (Normal) Assemble & setup jacking system of the setup process of the setup proce	\$28,791  10 hr/shift tem Resource Qty/Unit	\$178,973 Work schedule 1 shift/day 3 days		\$12,050 day/week Resource Ur 5.241% \$3.00	nit Cost /mhr /mhr	\$0 Other ST pay C O hr/shift Resource Quantity \$27,357 450.0 mhr	\$219,814 other OT pay 0 hr/shift / Resource Cos / \$1,434 \$1,350 \$1,639
L M L	Code Ip sts	Status (Additive) Schedule factor (Normal) Assemble & setup jacking sys Resource Description Labor premium Small tools and supplies Labor FM	\$28,791  10 hr/shift tem Resource Qty/Unit	\$178,973 Work schedule 1 shift/day 3 days	Factor	\$12,050 day/week Resource Ur 5.241% \$3.00 \$54.65	/mhr /mhr /mhr /mhr	\$0 Other ST pay COO hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr	\$219,814 other OT pay 0 hr/shift A Resource Cos 5 \$1,434 \$1,350 \$1,638 \$3,116
L M L L	Code Ip sts Ifm lab	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking sys Resource Description  Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9)	\$28,791  10 hr/shift tem Resource Qty/Unit	\$178,973 Work schedule 1 shift/day 3 days	Factor	\$12,050 day/week Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06	/mhr /mhr /mhr /mhr /mhr /mhr	\$0 Other ST pay 0 hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 60.00 mhr 30.00 mhr 30.00 mhr	\$219,814 other OT pay 0 hr/shift A Resource Cos 7 \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922
L M L L L	Code Ip sts Ifm lab flag c45- lo4+	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking sys Resource Description  Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10)	\$28,791  10 hr/shift tem Resource Qty/Unit	\$178,973 Work schedule 1 shift/day 3 days	Factor	\$12,050 day/week Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06	/mhr /mhr /mhr /mhr /mhr /mhr	\$0 Other ST pay 0 hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 60.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr	\$219,814 Other OT pay O hr/shift  Resource Cos 7 \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$1,922
L M L L L	Code Ip sts Ifm lab flag c45- lo4+ hc40	Status (Additive) Schedule factor (Normal) Assemble & setup jacking sys Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105'	\$28,791  10 hr/shift tem Resource Qty/Unit	\$178,973 Work schedule 1 shift/day 3 days	Factor	\$12,050 day/week Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76	/mhr /mhr /mhr /mhr /mhr /mhr /mhr	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr	\$219,814 Other OT pay O hr/shift  Resource Cos 7 \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$1,922 \$2,603
L M L L L E	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking sys Resource Description  Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy	\$28,791  10 hr/shift tem Resource Qty/Unit	\$178,973 Work schedule 1 shift/day 3 days	Factor	\$12,050 day/week Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56	/mhr /mhr /mhr /mhr /mhr /mhr /mhr /hr	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 hr 30.00 hr	\$219,814 other OT pay 0 hr/shift
L M L L L L E E	Code Ip sts Ifm lab flag c45-lo4+ hc40 I914 cp12	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking sys Resource Description  Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm	\$28,791  10 hr/shift tem Resource Qty/Unit	\$178,973 Work schedule 1 shift/day 3 days	Factor	\$12,050 day/week Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25	/mhr /mhr /mhr /mhr /mhr /mhr /hhr /hr	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr 30.00 hr 30.00 hr 30.00 hr	\$219,814 Other OT pay O hr/shift  Resource Cos 7 \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$1,922 \$2,603 \$977 \$2,318
	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking sys Resource Description  Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW	\$28,791  10 hr/shift tem Resource Qty/Unit	\$178,973 Work schedule 1 shift/day 3 days	Factor	\$12,050 day/week Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr 30.00 hr 30.00 hr 30.00 hr 30.00 hr	\$219,814 other OT pay 0 hr/shift
L M L L L E E E L	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking sys Resource Description  Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5)	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days	Factor 2	\$12,050 day/week Resource Ur 5.241% \$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr 30.00 hr 30.00 hr 30.00 hr 30.00 hr 30.00 hr 30.00 mhr	\$219,814 Other OT pay O hr/shift  Resource Cos 7 \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922
L M L L L E E E L E	Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6	Status (Additive) Schedule factor (Normal) Assemble & setup jacking systematics Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days	Factor	\$12,050  day/week  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /mhr	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr	\$219,814 Other OT pay O hr/shift  Resource Cos 7 \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$766
	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking sys Resource Description  Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft hea	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days	Factor 2	\$12,050  day/week  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr	\$219,814 Other OT pay O hr/shift  A Resource Cos  \$1,434 \$1,350  \$1,639 \$3,116 \$1,558 \$1,922 \$1,922 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$766 \$322
L L L L L E E E E L	Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6	Status (Additive) Schedule factor (Normal) Assemble & setup jacking systematics Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days Production rate	Factor 2	\$12,050  day/week  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr	\$219,814 Other OT pay O hr/shift  A Resource Cos  \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$766 \$322
	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking sys Resource Description  Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft hea	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days Production rate	Factor 2	\$12,050  day/week  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr	\$219,814 Other OT pay O hr/shift  A Resource Cos  \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$766 \$322 \$2,982
	Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6 p205 wtp	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking system to labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft her	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days Production rate	Factor 2	\$12,050  day/week  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr	\$0 Other ST pay 0 hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr	\$219,814 Other OT pay O hr/shift  A Resource Cos  \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$766 \$322 \$2,982 \$1,639
	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm lab	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking system source Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. >45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft her Water Treatment Plant Labor FM	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days Production rate	Factor 2 3	\$12,050  day/week  Resource Ur  5.241% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /mhr /hr	\$0 Other ST pay 0 hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr 30.00 mhr 90.00 hr	\$219,814 Other OT pay O hr/shift  A Resource Cos  \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$766 \$322 \$2,982 \$1,639 \$4,675 \$1,922
L M	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm lab c100+ mw	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking systesource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft her Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1)	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days Production rate	Factor 2	\$12,050  day/week  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$64.06 \$64.06 \$86.77 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42  \$54.65 \$51.94 \$64.06 \$61.73	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /mhr /hr /mhr /m	\$0 Other ST pay 0 hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 mhr 90.00 mhr	\$219,814 Other OT pay O hr/shift  A Resource Cos  \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$766 \$322 \$2,982 \$1,639 \$4,675 \$1,922 \$3,704
L M	Code Ip sts Ifm Iab flag c45-Io4+ hc40 I914 cp12 g10 comp Ip6 p205 wtp Ifm Iab c100+ mw ejm	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking system to premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft her Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1) Electrician JM	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days Production rate	Factor 2  3 3 2	\$12,050  day/week  Resource Ur  5.241% \$3.00  \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42  \$54.65 \$51.94 \$64.06 \$61.73 \$111	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /mhr /m	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 hr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 mhr	\$219,814 Other OT pay O hr/shift
L	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm lab c100+ mw ejm ml30	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking system of the properties of the p	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days Production rate	Factor 2 3 3 2 2	\$12,050  day/week  Resource Ur  5.241% \$3.00  \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42  \$54.65 \$51.94 \$64.06 \$61.73 \$111 \$16.98	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /mhr /m	\$0  Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 mhr	\$219,814 Other OT pay O hr/shift  TRESOURCE Cost T\$1,434 \$1,350  \$1,639 \$3,116  \$1,558 \$1,922  \$2,603 \$977  \$2,318 \$161  \$1,922  \$766  \$322  \$2,982  \$1,639  \$4,675  \$1,922  \$3,704  \$3,339  \$1,019
L	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm lab c100+ mw ejm ml30 we4	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking system to premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft her Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1) Electrician JM Man-Lift 30' articulated boom Welder 400A, trailer E	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days Production rate	Factor 2  3 3 2	\$12,050  day/week  Resource Ur  5.241% \$3.00  \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42  \$54.65 \$51.94 \$64.06 \$61.73 \$111 \$16.98 \$52.93	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 mhr 30.00 mhr 90.00 mhr 30.00 mhr 90.00 mhr 30.00 mhr 90.00 mhr 60.00 mhr 60.00 hr	\$219,814 Other OT pay O hr/shift  A Resource Cos A \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$766 \$322 \$2,982 \$1,639 \$4,675 \$1,922 \$3,704 \$3,339 \$1,019 \$3,176
L	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm lab c100+ mw ejm ml30 we4 cssj	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking systesource Description  Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft her Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1) Electrician JM Man-Lift 30' articulated boom Welder 400A, trailer E Cutting shield steering jacks	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days Production rate	Factor 2 3 3 2 2	\$12,050  day/week  Resource Ur 5.241% \$3.00  \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42  \$54.65 \$51.94 \$64.06 \$61.73 \$111 \$16.98 \$52.93 \$646	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /mhr /hr /hr /hr /hr /mhr /m	\$0  Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 mhr 30.00 mhr	\$219,814 Other OT pay O hr/shift  A Resource Cos A \$1,434 \$1,350 \$1,639 \$3,116 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$766 \$322 \$2,982 \$1,639 \$4,675 \$1,922 \$3,704 \$3,339 \$1,019 \$3,176 \$19,390
	Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205 wtp Ifm lab c100+ mw ejm ml30 we4 cssj tc150	Status (Additive) Schedule factor (Normal)  Assemble & setup jacking system to premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft her Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1) Electrician JM Man-Lift 30' articulated boom Welder 400A, trailer E	\$28,791  10 hr/shift tem Resource Qty/Unit  Support Crew	\$178,973 Work schedule 1 shift/day 3 days Production rate	Factor 2 3 3 2 2	\$12,050  day/week  Resource Ur  5.241% \$3.00  \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$99.42  \$54.65 \$51.94 \$64.06 \$61.73 \$111 \$16.98 \$52.93	/mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /mhr /hr /hr /hr /mhr /m	\$0 Other ST pay O hr/shift  Resource Quantity \$27,357 450.0 mhr 30.00 mhr 30.00 mhr 30.00 mhr 30.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 hr 30.00 mhr 90.00 mhr 30.00 mhr 90.00 mhr 30.00 mhr 90.00 mhr 30.00 mhr 90.00 mhr 60.00 mhr 60.00 hr	0 hr/shift  Resource Cos



No. <b>015</b>		escription omfort Road - Excavate I			Item Quantity/Unit 50 ft	Produ	uction rate	Other fixed time  10 days	10	Total time work days
		4	nhours <b>1,080</b> 1.600	Labor <b>\$295,650</b> \$5,913.00	\$394,528 \$7,890.57		Material <b>\$22,940</b> \$458.80	Subcontract <b>\$114,030</b> \$2,280.60		Item Cost <b>\$827,148</b> \$16,542.96
		Status (Additive)	1.000	ψ5,915.00	Work schedule		φ430.00	Other ST pay	Ot	her OT pay
	1 000	Schedule factor (Normal)		8 hr/shift	3 shift/day	7 (	day/week	0.5 hr/shift		hr/shift
	1.000	Excavate culvert		2172 cy	171 cy/day	, ,	ady/Wook	0.0 111/011111		TII/OTIIIC
		Jack culvert		50 ft	5 ft/day	10 d	lave			
R/T	Code	Resource Description	R	esource Qty/Unit	Production rate	Factor	Resource Unit (	Cost Resource Qu	antity	Resource Cost
_	lp	Labor premium		coduce Qty/Offic	1 Toddollott falc	1 dotoi	18.183%	\$250		\$45,487
M	sts	Small tools and supplies					\$3.00 /m			\$12,240
				pport Crew			******			¥ :=,= : •
_	lfm	Labor FM		• •			\$54.65 /m	ıhr 240.0 r	nhr	\$13,115
_	lab	General Labor (Grp 1)				2	\$51.94 /m	ıhr 480.0 r	nhr	\$24,931
_	flag	Flagman (Grp 1)					\$51.94 /m	ıhr 240.0 r	nhr	\$12,466
_	c45-	Crane oper. <45t (Grp 9)	)				\$64.06 /m			\$15,373
_	lo4+	Loader oper. >4cy (Grp					\$64.06 /m	ıhr 240.0 r	nhr	\$15,373
_	ejm	Electrician JM	,				\$111 /m	ıhr 240.0 r	nhr	\$26,709
Ξ	hc40	Hydraulic Crane 40ton/1	05'				\$86.76 /hi			\$20,823
Ξ	1914	Wheel Loader Cat 914/1					\$32.56 /hi			\$7,814
Ē	cp12	Compressor, trailer 1200	•				\$77.25 /hi			\$18,541
=	g10	Generator, trailer 10.0kW					\$5.37 /hi			\$1,288
_	•	Compressorman (Grp 5)					\$64.06 /m			\$15,373
=	lp6	Light Plant/Genset, 6kW		W		3	\$8.51 /hi			\$6,126
Ē	•	Pump, trash 205gpm/100		• •		O	\$10.73 /hi			\$2,575
- S		Muck disposal	Jit ficau	3258 lcy			\$35.00 /lc			\$114,030
_	muon	Waok disposal	F	cavation & Jack	ina Crew		φοσ.σσ πο	y 0200 i	Oy .	Ψ114,000
L	lfm	Labor FM		ioavalion a oach	ing ordin		\$54.65 /m	ıhr 240.0 r	nhr	\$13,115
_	lab	General Labor (Grp 1)				3	\$51.94 /m			\$37,397
_	ofm	Operating Engineer				O	\$64.06 /m			\$15,373
	eo3-	Excavator <3.5cy (Grp 5	١			2	\$64.06 /m			\$30,747
_	lo4-	Loader oper. <4cy (Grp 5				2	\$64.06 /m			\$15,373
_	mw	HD Mech/Welder (Grp 1)					\$61.73 /m			\$14,815
_ E		320 Excavator 43.8k/1.5					\$188 /hi			\$45,197
E	1914	Wheel Loader Cat 914/1	-				\$32.56 /hi			\$7,814
=	cssi	Cutting shield steering ja	•				\$646 /hi			\$155,116
<u> </u>	,	Thrust jack & frame	CNS				\$439 /hi			\$105,375
M	•	Miscellaneous material		10.00 lot			\$1,070 /lo			\$10,700
Ξ	wtp	Water Treatment Plant		10.00 101			\$1,070 /lo			\$23,860
_		Tratal Tradition Train					φσσ			420,000
√o. <b>016</b>		scription mfort Road - Position N	B Culve	ert #2	Item Quantity/Unit	Produ	uction rate	Other fixed time 2 days	2	Total time work days
		mai	nhours	Labor	Equipment		Material	Subcontract		Item Cost
			672	\$43,240	\$68,304		\$7,366	\$0		\$118,910
		Status (Additive)		, ,	Work schedule		. ,	Other ST pay	Ot	her OT pay
	1.000	Schedule factor (Normal)		8 hr/shift	3 shift/day	5 0	day/week	0.5 hr/shift		hr/shift
		Position & prepare culve	rt for jac		2 days		,			
R/T	Code	Resource Description	-	esource Qty/Unit	Production rate	Factor	Resource Unit (	Cost Resource Qu	antity	Resource Cos
	lp	Labor premium					6.250%		.697	\$2,544
									,	\$2,016
VI .	sts	Small tools and supplies					\$3.00 /m			* ,
VI	sts	Small tools and supplies		ipport Crew			\$3.00 /m	072.01		
				ipport Crew					nhr	\$2 623
L	lfm	Labor FM		ipport Crew		2	\$54.65 /m	ıhr 48.00 r		
_	lfm lab	Labor FM General Labor (Grp 1)		upport Crew		2	\$54.65 /m \$51.94 /m	ıhr 48.00 r ıhr 96.00 r	nhr	\$4,986
_	Ifm lab flag	Labor FM General Labor (Grp 1) Flagman (Grp 1)	Sı	upport Crew		2	\$54.65 /m \$51.94 /m \$51.94 /m	hr 48.00 r hr 96.00 r hr 48.00 r	nhr nhr	\$4,986 \$2,493
_	Ifm lab flag c45-	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9)	Sı	upport Crew		2	\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m	thr 48.00 r 1hr 96.00 r 1hr 48.00 r 1hr 48.00 r	nhr nhr nhr	\$4,986 \$2,493 \$3,075
- - -	Ifm lab flag c45- lo4+	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2)	Sı	upport Crew		2	\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m	thr 48.00 r thr 96.00 r thr 48.00 r thr 48.00 r thr 48.00 r	nhr nhr nhr nhr	\$4,986 \$2,493 \$3,075 \$3,075
- - - -	Ifm lab flag c45- lo4+ ejm	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM	Su 10)	upport Crew		2	\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m	thr 48.00 r thr 96.00 r thr 48.00 r thr 48.00 r thr 48.00 r thr 48.00 r	nhr nhr nhr nhr nhr	\$4,986 \$2,493 \$3,075 \$3,075 \$5,342
- - - -	Ifm lab flag c45- lo4+ ejm hc40	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/10	St 10) 05'	upport Crew		2	\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /h	thr 48.00 r thr 96.00 r thr 48.00 r thr 48.00 r thr 48.00 r thr 48.00 r	mhr nhr nhr nhr nhr nhr	\$4,986 \$2,493 \$3,075 \$3,075 \$5,342 \$4,165
- - - -	Ifm lab flag c45- lo4+ ejm hc40 l914	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1	Su 10) 05' .7cy	upport Crew		2	\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /hı \$32.56 /hı	thr 48.00 r thr 96.00 r thr 48.00 r	nhr nhr nhr nhr nhr nr	\$4,986 \$2,493 \$3,075 \$3,075 \$5,342 \$4,165 \$1,563
- - - - -	Ifm lab flag c45- lo4+ ejm hc40 l914 cp12	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/19 Wheel Loader Cat 914/1 Compressor, trailer 1200	Su 10) 05' .7cy lefm	upport Crew		2	\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /hı \$32.56 /hı \$77.25 /hı	thr 48.00 r thr 96.00 r thr 48.00 r	nhr nhr nhr nhr nhr nr nr	\$4,986 \$2,493 \$3,075 \$3,075 \$5,342 \$4,165 \$1,563 \$3,708
- - - - = =	Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/1 Wheel Loader Cat 914/1 Compressor, trailer 1200 Generator, trailer 10.0kW	Su 10) 05' .7cy lcfm V	upport Crew		2	\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /hı \$32.56 /hı \$77.25 /hı	thr 48.00 r thr 96.00 r thr 48.00 r	mhr mhr mhr mhr mhr mhr nr	\$4,986 \$2,493 \$3,075 \$3,075 \$5,342 \$4,165 \$1,563 \$3,708 \$258
-	Ifm lab flag c45- lo4+ ejm hc40 l914 cp12 g10 comp	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 1200 Generator, trailer 10.0kW Compressorman (Grp 5)	50 10) 05' .7cy lcfm /				\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /hı \$32.56 /hı \$77.25 /hı \$5.37 /hı \$64.06 /m	thr 48.00 r thr 96.00 r thr 48.00 r thr 48.00 r thr 48.00 r thr 48.00 r r 48.00 r	nhr nhr nhr nhr nhr ir ir ir	\$4,986 \$2,493 \$3,075 \$3,075 \$5,342 \$4,165 \$1,563 \$3,708 \$258 \$3,075
-	Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 1200 Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW	Su 10) 05' .7cy lefm V			2	\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /hı \$32.56 /hı \$77.25 /hı \$5.37 /hı \$64.06 /m \$8.51 /hı	thr 48.00 r thr 96.00 r thr 48.00 r thr 48.00 r thr 48.00 r thr 48.00 r r 144.0 r	mhr mhr mhr mhr nr nr nr nr nr	\$4,986 \$2,493 \$3,075 \$5,342 \$4,165 \$1,563 \$3,708 \$258 \$3,075 \$1,225
-	Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6 p205	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 1200 Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW Pump, trash 205gpm/100	Su 10) 05' .7cy lefm V				\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /hı \$32.56 /hı \$77.25 /hı \$5.37 /hı \$64.06 /m \$8.51 /hı \$10.73 /hı	thr 48.00 r thr 96.00 r thr 48.00 r thr 48.00 r thr 48.00 r thr 48.00 r r 48.00 r	mhr mhr mhr mhr nr nr nr nr nr	\$4,986 \$2,493 \$3,075 \$3,075 \$5,342 \$4,165 \$1,563 \$3,708 \$258 \$3,075 \$1,225 \$515
	Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 1200 Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW	Su 10) 05' .7cy lefm V , 4/1000' Oft head	w			\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /hı \$32.56 /hı \$77.25 /hı \$5.37 /hı \$64.06 /m \$8.51 /hı	thr 48.00 r 96.00 r 48.00 r 48	mhr mhr mhr mhr nr nr nr nr nr	\$4,986 \$2,493 \$3,075 \$3,075 \$5,342 \$4,165 \$1,563 \$3,708 \$258 \$3,075 \$1,225 \$515
-	Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6 p205 wtp	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 1200 Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW Pump, trash 205gpm/100 Water Treatment Plant	Su 10) 05' .7cy lefm V , 4/1000' Oft head				\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /hi \$32.56 /hi \$77.25 /hi \$5.37 /hi \$64.06 /m \$8.51 /hi \$99.42 /hi	thr 48.00 r 96.00 r 48.00 r 48.00 r 48.00 r 48.00 r 48.00 r 144.0 r 48.00 r 48.00 r 48.00 r 48.00 r 48.00 r 48.00 r 144.0 r 48.00 r 48.00 r 48.00 r 144.0 r 148.00 r 148.00 r 148.00 r 144.0 r 148.00 r 1	mhr mhr mhr mhr ir ir ir ir ir	\$4,986 \$2,493 \$3,075 \$3,075 \$5,342 \$4,165 \$1,563 \$3,708 \$258 \$3,075 \$1,225 \$515 \$4,772
M LLLLEEEELEEE LL	Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6 p205 wtp	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 1200 Generator, trailer 1200 Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW Pump, trash 205gpm/100 Water Treatment Plant Labor FM	Su 10) 05' .7cy lefm V , 4/1000' Oft head	w		3	\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /hi \$32.56 /hi \$77.25 /hi \$5.37 /hi \$64.06 /m \$8.51 /hi \$99.42 /hi	thr 48.00 r thr 96.00 r thr 48.00 r thr 48.00 r thr 48.00 r thr 48.00 r r 48.00 r	nhr nhr nhr nhr nr nr nr nr nr nr	\$2,623 \$4,986 \$2,493 \$3,075 \$5,342 \$4,165 \$1,563 \$3,708 \$258 \$3,075 \$1,225 \$515 \$4,772
	Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6 p205 wtp	Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 2) Electrician JM Hydraulic Crane 40ton/10 Wheel Loader Cat 914/1 Compressor, trailer 1200 Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW Pump, trash 205gpm/100 Water Treatment Plant	Su 10) 05' .7cy lefm V , 4/1000' Oft head	w			\$54.65 /m \$51.94 /m \$51.94 /m \$64.06 /m \$64.06 /m \$111 /m \$86.76 /hi \$32.56 /hi \$77.25 /hi \$5.37 /hi \$64.06 /m \$8.51 /hi \$99.42 /hi	thr 48.00 r thr 96.00 r thr 48.00 r thr 48.00 r thr 48.00 r thr 48.00 r r 48.00 r	nhr nhr nhr nhr nr nr nr nr nr nr	\$4,98 \$2,49 \$3,07 \$5,34 \$4,16 \$1,56 \$3,70 \$25 \$3,07 \$1,22 \$51



L	mw	HD Mech/Welder (Grp 1)		2	\$61.73 /mhr	96.00 mhr	\$5,926
Ε	cssj	Cutting shield steering jacks			\$646 /hr	48.00 hr	\$31,023
Ε	tjack	Thrust jack & frame			\$439 /hr	48.00 hr	\$21,075
M	xmisc	Miscellaneous material	5.00 lot		\$1,070 /lot	5.00 lot	\$5,350

		scription mfort Road - Excavate	NR Cu	lvert #2	Item Quantity/Unit <b>50 ft</b>	Produ	ction rate		ner fixed time 10 days	Total time  10 work days
017	00	ma	anhours 4,080 31.600	Labor <b>\$295,650</b> \$5,913.00	Equipment <b>\$394,528</b> \$7,890.57		Material <b>\$22,940</b> \$458.80		Subcontract \$114,030 \$2,280.60	Item Cost <b>\$827,148</b> \$16,542.96
		Status (Additive)	1.000	φ3,913.00	Ψη,090.37		φ430.00	(	φ2,200.00 Other ST pay	Other OT pay
	1.000	Schedule factor (Normal)		8 hr/shift	3 shift/day	7 c	lay/week		0.5 hr/shift	0 hr/shift
		Excavate culvert		2172 cy	171 cy/day					
		Jack culvert		50 ft	5 ft/day	10 c	lays			
/T	Code	Resource Description		Resource Qty/Unit	Production rate	Factor	Resource U	nit Cost	Resource Quanti	ity Resource Cost
	lp	Labor premium					18.183%		\$250,16	32 \$45,487
1	sts	Small tools and supplies		0			\$3.00	/mhr	4080 mhi	s \$12,240
	lfm	Labor FM		Support Crew			\$54.65	/mhr	240.0 mhi	r \$13,115
	lab	General Labor (Grp 1)				2	\$51.94	/mhr	480.0 mhi	
	flag	Flagman (Grp 1)					\$51.94	/mhr	240.0 mhi	
	c45-	Crane oper. <45t (Grp 9	9)				\$64.06	/mhr	240.0 mhi	r \$15,373
	lo4+	Loader oper. >4cy (Grp	, 10)				\$64.06	/mhr	240.0 mhi	
	ejm	Electrician JM	,				\$111	/mhr	240.0 mhi	r \$26,709
	hc40	Hydraulic Crane 40ton/	105'				\$86.76	/hr	240.0 hr	\$20,823
	1914	Wheel Loader Cat 914/	1.7cy				\$32.56	/hr	240.0 hr	\$7,814
	cp12	Compressor, trailer 120	0cfm				\$77.25	/hr	240.0 hr	\$18,541
	g10	Generator, trailer 10.0k					\$5.37	/hr	240.0 hr	\$1,288
	•	Compressorman (Grp 5					\$64.06		240.0 mhi	
	lp6	Light Plant/Genset, 6kV	,	00W		3	\$8.51	/hr	720.0 hr	\$6,126
	p205	Pump, trash 205gpm/10	Oft hea	nd			\$10.73		240.0 hr	\$2,575
		Muck disposal		3258 lcy			\$35.00	/lcy	3258 lcy	\$114,030
	lfm	Labor FM		Excavation & Jack	ing Crew		\$54.65	/mhr	240.0 mhi	r \$13,115
	lab	General Labor (Grp 1)				3	\$51.94		720.0 mhi	
	ofm	Operating Engineer				3	\$64.06		240.0 mhi	
	eo3-	Excavator <3.5cy (Grp :	5)			2	\$64.06		480.0 mhi	
	lo4-	Loader oper. <4cy (Grp				2	\$64.06		240.0 mhi	
	mw	HD Mech/Welder (Grp					\$61.73		240.0 mhi	
		320 Excavator 43.8k/1.	,				\$188		240.0 hr	\$45,197
	1914	Wheel Loader Cat 914/	•				\$32.56		240.0 hr	\$7,814
	cssj	Cutting shield steering j	•				\$646		240.0 hr	\$155,116
	•	Thrust jack & frame	acks				\$439		240.0 hr	\$105,375
	•	Miscellaneous material		10.00 lot			\$1,070		10.00 lot	\$10,700
	wtp	Water Treatment Plant		10.00 101			\$99.42		240.0 hr	\$23,860
	Itam Da	o orientia n			Itam Quantity/I Init	Drodu	estion rate	Oti	ner fixed time	Total time
o. 18	Item De Mt Co	scription mfort Road - Remove 、	Jacks 8	& Shield	Item Quantity/Unit 1.00 LS	Piodu	ction rate	Oti	5 days	5 work days
		ma	anhours	Labor	Equipment		Material		Subcontract	Item Cost
			850	\$57,326	\$270,025		\$2,550		\$0	\$329,901
		Status (Additive)			Work schedule			(	Other ST pay	Other OT pay
	1.000	Schedule factor (Normal)		10 hr/shift	1 shift/day	5 c	lay/week	0	.5 hr/shift	0 hr/shift
_	0 1	Remove jacks & shields	3	5 days	D. 1		5	0	D 0 1	
Т	Code	Resource Description  Labor premium		Resource Qty/Unit	Production rate	Factor	Resource Ui	nit Cost	Resource Quanti	•
1	sts	Small tools and supplies	2				\$3.00	/mhr	850.0 mhi	
	313	Omaii tools and supplies		Support Crew			ψ5.00	/1111111	030.0 11111	Ψ2,330
	lfm	Labor FM		capport cross			\$54.65	/mhr	50.00 mhi	r \$2,732
	lab	General Labor (Grp 1)				2	\$51.94		100.0 mhi	
	flag	Flagman (Grp 1)				_	\$51.94		50.00 mhi	
	c45-	Crane oper. <45t (Grp 9	9)				\$64.06		50.00 mhi	
	lo4+	Loader oper. >4cy (Grp	,				\$64.06		50.00 mhi	
	ejm	Electrician JM	10)				\$111		50.00 mhi	
	hc40	Hydraulic Crane 40ton/	105'				\$86.76		50.00 hr	\$4,338
	1914	Wheel Loader Cat 914/					\$32.56		50.00 hr	\$1,628
	cp12	Compressor, trailer 120					\$77.25		50.00 hr	\$3,863
	g10	Generator, trailer 10.0k					\$5.37		50.00 hr	\$268
	_	Compressorman (Grp 5					\$64.06		50.00 mhi	
		Light Plant/Genset, 6kV	,	now		3	\$8.51		150.0 hr	\$1,276
	lp6	Ligiti Flatil/Geriset, 6KV	v, 4/ IU(	JU V V		3	φο.51	/111	150.0 11	φ1,2/6



Е	p205	Pump, trash 205gpm/100ft he	ad			\$10.73	/hr	50.00	hr	\$536
Ε	wtp	Water Treatment Plant				\$99.42		50.00		\$4,971
	•		Removal Crew							
L	lfm	Labor FM				\$54.65	/mhr	50.00	mhr	\$2,732
L	lab	General Labor (Grp 1)			3	\$51.94	/mhr	150.0	mhr	\$7,791
L	mw	HD Mech/Welder (Grp 1)			2	\$61.73	/mhr	100.0	mhr	\$6,173
L	c100+	Crane oper. >100t (Grp 11)				\$64.06	/mhr	50.00	mhr	\$3,203
L		Excavator <3.5cy (Grp 5)				\$64.06		50.00	mhr	\$3,203
L	lo4-	Loader oper. <4cy (Grp 5)				\$64.06		50.00		\$3,203
Ε		320 Excavator 43.8k/1.5cy				\$188		50.00		\$9,416
Ε	1914	Wheel Loader Cat 914/1.7cy				\$32.56		50.00		\$1,628
E		Truck Crane 150ton/260'				\$4,842		50.00		\$242,101
No.	Item De	escription		Item Quantity/Unit	Produ	ction rate	Oth	ner fixed time		Total time
		mfort Road - Excavate & Sup	port NB Wall 2	1 LS	11000	olion rato		60 days	60	work days
		manhours	Labor	Equipment		Material		Subcontract		Item Cost
		7,248	\$412,210	\$273,410		\$85,870		\$593,618		\$1,365,108
		Status (Additive)		Work schedule			(	Other ST pay	Ot	her OT pay
	1.000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5 d	ay/week		0 hr/shift	C	hr/shift
		Soil nail & shotcrete installatio	n - Two crews NB 8	& SB	2 c	rews				
		Excavation per level		3769 bcy	500 c	v/day		8 days		
		Install soil nails per level		68 ea		a/dy		9 days	2	crews
		Shotcrete per level		34 cy		y/hr		3 days		
		Number of levels		3 ea		,		. ,		
		Total duration					6	60 days		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource U		Resource Q	uantitv	Resource Cost
M	sts	Small tools and supplies				\$3.00		7248		\$21,744
			Support Crew			*****				<del>+</del> =-,
L	lfm	Labor FM				\$54.65	/mhr	480.0	mhr	\$26,231
L	lab	General Labor (Grp 1)			2	\$51.94		960.0		\$49,863
L	flag	Flagman (Grp 1)			_	\$51.94		480.0		\$24,931
L	c45-	Crane oper. <45t (Grp 9)			2	\$64.06		960.0		\$61,494
L	lo4+	Loader oper. >4cy (Grp 10)			_	\$64.06		480.0		\$30,747
Ē		Hydraulic Crane 40ton/105'			2	\$86.76		960.0		\$83,290
Ē	1914	Wheel Loader Cat 914/1.7cy			_	\$32.56		480.0		\$15,628
Ē		Compressor, trailer 1200cfm				\$77.25		480.0		\$37,081
Ē	g10	Generator, trailer 10.0kW				\$5.37		480.0		\$2,577
Ĺ	•	Compressorman (Grp 5)				\$64.06		480.0		\$30,747
Ē	lp6	Light Plant/Genset, 6kW, 4/10	00\W		3	\$8.51		1440		\$12,251
S	•	Muck disposal	16961 lcy		3	\$35.00		16961		\$593,618
0	HUCK	wack disposal	Soil Nail Crew			ψ33.00	/ICy	10301	Ю	Ψ595,010
L	lfm	Labor FM	Con Han Olow			\$54.65	/mhr	480.0	mhr	\$26,231
L	lab	General Labor (Grp 1)	27.00 day	8.00 mhr/day	6	\$51.94		1296		\$67,315
L	drill	Drill operator (Grp 6)	27.00 day	8.00 mhr/day	2	\$64.06		432.0		\$27,672
Ē	at	Air track 12' feed		0.00	2	\$36.95		960.0		\$35,468
Ē	ml30	Man-Lift 30' articulated boom			2	\$16.98		960.0		\$16,305
Ē	gp	Grout Plant, skid	27.00 day	8.00 hr/day	2	\$16.84		432.0		\$7,273
М	sn	Soil nials	205.0 ea	0.00 m/day	_	\$219		205.0		\$44,895
M	CS	Cement - sack	205.0 ea			\$14.98		205.0		\$3,071
IVI	CS	Cernent - Sack	Excavation Crew			ф14.90	/ea	203.0	еа	φ3,071
L	lab	General Labor (Grp 1)	24.00 day	8.00 mhr/day	200%	\$51.94	/mhr	384.0	mhr	\$19,945
Ĺ		Excavator >3.5cy (Grp 8)	24.00 day	8.00 mhr/day	2	\$64.06		384.0		\$24,597
E		SK330LC Exc 77.8/2.1cy	24.00 day 24.00 day	8.00 hr/day	2	\$04.00 \$151		384.0		\$24,597 \$57,994
	HESSU	GROUDLO EAU 11.0/2.109	Shotcrete Crew	0.00 III/day	۷	φισι	/111	304.0	111	φυ <i>1</i> ,894
L	lab	General Labor (Grp 1)	9.00 day	8.00 mhr/day	6	\$51.94	/mhr	432.0	mhr	\$22,438
Ε	sp2	Shotcrete pot Aliva, 2cy/hr	9.00 day	8.00 hr/day	2	\$38.48	/hr	144.0	hr	\$5,541
M	shcrt	Shotcrete	101.0 cy			\$160	/cy	101.0	су	\$16,160



		scription mfort Road - Excavate & Su	• •	Item Quantity/Unit 1.00 LS	Produ	uction rate		r fixed time		Total time work days
		manhours <b>4,00</b> 8		Equipment \$148,163		Material <b>\$45,392</b>		Subcontract \$294,683		Item Cost \$715,871
		Status (Additive)	\$221,634	Work schedule		<b>\$45,332</b>		ner ST pay	Otl	ner OT pay
	1 000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5.0	day/week		hr/shift		hr/shift
-	1.000	Soil nail & shotcrete installation				rews		in/ornit		TII/OTIIIC
		Excavation per level	511 TWO GIOWG IND	1871 bcy		cy/day	4	days		
		Install soil nails per level		35 ea		ea/dy		days	2	crews
		Shotcrete per level		18 cy	2 0	cy/hr		days		
		Number of levels		3 ea				•		
		Total duration					33	days		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource U	nit Cost	Resource Q	uantity	Resource Cost
M	sts	Small tools and supplies				\$3.00	/mhr	4008	mhr	\$12,024
			Support Crew							
L	lfm	Labor FM			_	\$54.65		264.0		\$14,427
L	lab	General Labor (Grp 1)			2	\$51.94		528.0		\$27,424
L	flag	Flagman (Grp 1)			_	\$51.94		264.0		\$13,712
L	c45-	Crane oper. <45t (Grp 9)			2	\$64.06		528.0		\$33,822
L	lo4+	Loader oper. >4cy (Grp 10)			2	\$64.06		264.0		\$16,911 \$45,810
E E	hc40 l914	Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy			2	\$86.76 \$32.56		528.0 264.0		\$45,810 \$8,596
Ē	cp12	•				\$32.30 \$77.25		264.0		\$20,395
E	g10	Generator, trailer 10.0kW				\$5.37		264.0		\$1,417
Ĺ		Compressorman (Grp 5)				\$64.06		264.0		\$16,911
Ē	lp6	Light Plant/Genset, 6kW, 4/10	000W		3	\$8.51		792.0		\$6,738
S		Muck disposal	8420 lcy		Ū	\$35.00		8420		\$294,683
			Soil Nail Crew			******	,,		,	<b>7</b>
L	lfm	Labor FM				\$54.65	/mhr	264.0	mhr	\$14,427
L	lab	General Labor (Grp 1)	15.00 day	8.00 mhr/day	6	\$51.94	/mhr	720.0	mhr	\$37,397
L	drill	Drill operator (Grp 6)	15.00 day	8.00 mhr/day	2	\$64.06	/mhr	240.0	mhr	\$15,373
E	at	Air track 12' feed	•	·	2	\$36.95	/hr	528.0	hr	\$19,507
E	ml30	Man-Lift 30' articulated boom			2	\$16.98	/hr	528.0	hr	\$8,968
E	gp	Grout Plant, skid	15.00 day	8.00 hr/day	2	\$16.84	/hr	240.0	hr	\$4,041
M	sn	Soil nials	105.0 ea			\$219	/ea	105.0	ea	\$22,995
M	cs	Cement - sack	105.0 ea			\$14.98	/ea	105.0	ea	\$1,573
			Excavation Crew							
L	lab	General Labor (Grp 1)	12.00 day	8.00 mhr/day	200%	\$51.94		192.0		\$9,973
L		Excavator >3.5cy (Grp 8)	12.00 day	8.00 mhr/day	2	\$64.06		192.0		\$12,299
Е	he330	SK330LC Exc 77.8/2.1cy	12.00 day	8.00 hr/day	2	\$151	/hr	192.0	hr	\$28,997
	1 - 1-	O	Shotcrete Crew	0.00	0	<b>#</b> 54.04	/ I	000.0		<b>#44.050</b>
L	lab	General Labor (Grp 1)	6.00 day	8.00 mhr/day	6	\$51.94 \$38.48		288.0 96.00		\$14,959 \$3,694
E M	sp2	Shotcrete pot Aliva, 2cy/hr Shotcrete	6.00 day 55.00 cy	8.00 hr/day	2	\$30.40 \$160		55.00		\$8,800
IVI	SHOLL	Shotcrete	33.00 Cy			φ100	/Cy	33.00	Су	ψ0,000
No.	Item De	escription		Item Quantity/Unit	Produ	iction rate	Other	r fixed time		Total time
		mfort Road - Final Wall Faci	ng NB Wall 2	1 LS				days		work days
		manhours	•	Equipment		Material		Subcontract		Item Cost
		4,992	\$329,848	\$99,285		\$190,644		\$0		\$619,777
		Status (Additive)		Work schedule			Oth	ner ST pay	Otl	ner OT pay
	1.000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5 c	lay/week	0	hr/shift	0	hr/shift
		Final wall facing								
		Install reinforcement	20880 lb	150 lb/mhr		nhr/day	3			
		Set / strip wall forms	11250 sf	16 sf/mhr	72 r	nhr/day	10			
		Concrete pours	6 ea	1 ea/day			6			
		Place aggregate base	1350 ton				2			
		Slope stability					3			
		Total duration	D 0. ""	5			24			
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource U		Resource Q		Resource Cost
М	sts	Small tools and supplies	Support Crew			\$3.00	/111111	4992	111111	\$14,976
	lfm	Labor FM	Support Crew			\$54.65	/mhr	192.0	mhr	\$10,492
L L	lab	General Labor (Grp 1)			2	\$54.03 \$51.94		384.0		\$19,945
Ĺ	flag	Flagman (Grp 1)			_	\$51.94 \$51.94		192.0		\$9,973
Ĺ	c45-	Crane oper. <45t (Grp 9)				\$64.06		192.0		\$12,299
Ĺ	lo4+	Loader oper. >4cy (Grp 10)				\$64.06		192.0		\$12,299
Ē	hc40	Hydraulic Crane 40ton/105'				\$86.76		192.0		\$16,658
Ē	1914	Wheel Loader Cat 914/1.7cy				\$32.56		192.0		\$6,251
E	cp12					\$77.25		192.0		\$14,833
	-	•								



No.	Item De	scription		Item Quantity/Unit	Produc	tion rate Other	fixed time	Total time
M	xmisc	Miscellaneous material	10.00 lot			\$1,070 /lot	10.00 lot	\$10,700
			Slope Stability M	laterial				
M	aggc	Coarse aggregate	1350 ton			\$22.00 /ton	1350 ton	\$29,700
M	c5	Concrete, 5000psi mix	348.0 cy			\$136 /cy	348.0 cy	\$47,154
Ε	ml30	Man-Lift 30' articulated boom			2	\$16.98 /hr	384.0 hr	\$6,522
M	rp	Reinforcing steel, plain	20880 lb			\$0.49 /lb	20880 lb	\$10,231
M	xf	Misc form supplies	11250 sf			\$0.43 /sf	11250 sf	\$4,815
M	cure	Curing compound	11250 sf			\$0.02 /sf	11250 sf	\$241
M	foil	Form oil	11250 sf			\$0.16 /sf	11250 sf	\$1,806
M	ff	Form fasteners	11250 sf			\$0.32 /sf	11250 sf	\$3,611
M	ply1	Plywood MDO 1"	11250 sf			\$2.46 /sf	11250 sf	\$27,686
M	lumb	Lumber for lagging/forms	11250 sf	1.50 bf/sf		\$2.35 /bf	16875 bf	\$39,724
Ε	vib	Concrete vibrators			600%	\$9.33 /hr	1152 hr	\$10,746
Ε	cb130	Conc. Pump, truck 130cy/hr				\$189 /hr	192.0 hr	\$36,284
L	conc	Concrete equip.oper. (Grp 2)				\$61.73 /mhr	192.0 mhr	\$11,852
L	ijm	Ironworker JM			6	\$69.42 /mhr	1152 mhr	\$79,967
L	ifm	Ironworker FM			1	\$72.12 /mhr	192.0 mhr	\$13,848
L	cjm	Carpenter JM			8	\$72.85 /mhr	1536 mhr	\$111,903
L	cfm	Carpenter FM			1	\$75.56 /mhr	192.0 mhr	\$14,508
L	lab	General Labor (Grp 1)				\$51.94 /mhr	192.0 mhr	\$9,973
L	lfm	Labor FM				\$54.65 /mhr	192.0 mhr	\$10,492
_	P-00	p, 2009p, .00	Structure Crew			Ψ.σσ γ	.02.0	<b>4</b> 2,000
Ē	p205	Pump, trash 205gpm/100ft he			· ·	\$10.73 /hr	192.0 hr	\$2,060
Ē	lp6	Light Plant/Genset, 6kW, 4/10	00W		3	\$8.51 /hr	576.0 hr	\$4,901
ī	•	Compressorman (Grp 5)				\$64.06 /mhr	192.0 mhr	\$12,299
Е	g10	Generator, trailer 10.0kW				\$5.37 /hr	192.0 hr	\$1,031

No. <b>022</b>		escription omfort Road - Final Wall Facir	ng NB Wall 1	Item Quantity/Unit  1 LS	Produ	iction rate		fixed time		otal time vork days
<b></b>		manhours	-	Equipment		Material		Subcontract		Item Cos
		4,160	\$274,873	\$82,738		\$147,016		\$0		\$504,627
		Status (Additive)		Work schedule			Oth	ner ST pay	Othe	r OT pay
	1.000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5 0	day/week	0	hr/shift		ır/shift
		Final wall facing		·						
		Install reinforcement	15360 lb	150 lb/mhr	56 r	nhr/day	2			
		Set / strip wall forms	7500 sf	16 sf/mhr	72 r	nhr/day	7			
		Concrete pours	6 ea	1 ea/day			6	i		
		Place aggregate base	1350 ton				2			
		Slope stability					3	i		
		Total duration					20	1		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Ur	nit Cost	Resource Qua	antity	Resource Cos
M	sts	Small tools and supplies				\$3.00	/mhr	4160 m	nhr	\$12,480
			Support Crew							
L	lfm	Labor FM				\$54.65	/mhr	160.0 m	ıhr	\$8,744
L	lab	General Labor (Grp 1)			2	\$51.94		320.0 m		\$16,621
L	flag	Flagman (Grp 1)				\$51.94		160.0 m	nhr	\$8,310
L	c45-	Crane oper. <45t (Grp 9)				\$64.06		160.0 m		\$10,249
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06		160.0 m		\$10,249
Е	hc40	Hydraulic Crane 40ton/105'				\$86.76		160.0 h		\$13,882
Е	1914	Wheel Loader Cat 914/1.7cy				\$32.56		160.0 h	r	\$5,209
Ε	•	Compressor, trailer 1200cfm				\$77.25		160.0 h		\$12,360
Ε	g10	Generator, trailer 10.0kW				\$5.37		160.0 h		\$859
L	comp	Compressorman (Grp 5)				\$64.06		160.0 m		\$10,249
Е	lp6	Light Plant/Genset, 6kW, 4/10			3	\$8.51		480.0 h		\$4,084
Е	p205	Pump, trash 205gpm/100ft he				\$10.73	/hr	160.0 h	r	\$1,717
			Structure Crew							
L	lfm	Labor FM				\$54.65		160.0 m		\$8,744
L	lab	General Labor (Grp 1)				\$51.94		160.0 m		\$8,310
L	cfm	Carpenter FM			1	\$75.56		160.0 m		\$12,090
L	cjm	Carpenter JM			8	\$72.85		1280 m		\$93,252
L	ifm	Ironworker FM			1	\$72.12		160.0 m		\$11,540
L	ijm	Ironworker JM			6	\$69.42		960.0 m		\$66,639
L	conc	Concrete equip.oper. (Grp 2)				\$61.73		160.0 m		\$9,877
E		Conc. Pump, truck 130cy/hr				\$189		160.0 h		\$30,237
E	vib	Concrete vibrators			600%	\$9.33		960.0 h		\$8,955
M	lumb	Lumber for lagging/forms	7500 sf	1.50 bf/sf		\$2.35		11250 bi		\$26,483
M	ply1	Plywood MDO 1"	7500 sf			\$2.46		7500 st		\$18,458
M	ff	Form fasteners	7500 sf			\$0.32		7500 st		\$2,408
M	foil	Form oil	7500 sf			\$0.16	/sf	7500 st	İ	\$1,204



M	cure	Curing compound	7500 sf			\$0.02		7500 sf	\$161
M	xf	Misc form supplies	7500 sf			\$0.43		7500 sf	\$3,210
M	rp	Reinforcing steel, plain	15360 lb			\$0.49		15360 lb	\$7,526
Е		Man-Lift 30' articulated boom			2	\$16.98		320.0 hr	
М	c5	Concrete, 5000psi mix	256.0 cy			\$136	•	256.0 cy	
М	aggc	Coarse aggregate	1350 ton			\$22.00	/ton	1350 to	n \$29,700
			Slope Stability Mat	terial					
М	xmisc	Miscellaneous material	10.00 lot			\$1,070	/lot	10.00 lot	\$10,700
No.	Item De	scription		Item Quantity/Unit	Produ	iction rate	Oth	er fixed time	Total time
023	Mt Co	mfort Road - Exc & Support	SB Jacking Pit	1 LS			4	8 days	48 work days
		manhours	Labor	Equipment		Material		Subcontract	Item Cost
		7,120	\$427,634	\$284,907		\$50,047		\$303,345	\$1,065,933
		Status (Additive)		Work schedule			С	ther ST pay	Other OT pay
	1.000	Schedule factor (Normal)	10 hr/shift	1 shift/day		lay/week		0 hr/shift	0 hr/shift
		Soil nail & shotcrete installatio	n - Two crews NB 8			rews			
		Excavation per level		1445 bcy		cy/day		6 days	
		Install soil nails per level		18 ea		ea/dy		5 days	
		Shotcrete per level		19 cy	2 0	cy/hr		1 days	
		Number of levels		4 ea					
		Total duration						8 days	
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Ur	nit Cost	Resource Quai	•
L	lp	Labor premium				5.241%	f	\$406,3	
М	sts	Small tools and supplies	Our man and Our aver			\$3.00	/mnr	7120 ml	hr \$21,360
	Ifm	Labor FM	Support Crew			<b>¢E4 6</b> E	/mbr	490.0 m	hr \$26,231
L L	lfm lab	General Labor (Grp 1)			2	\$54.65 \$51.94		480.0 ml 960.0 ml	
		Flagman (Grp 1)			2	\$51.94 \$51.94		480.0 ml	
L L	flag c45-				2	\$64.06		960.0 ml	
L	lo4+	Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10)			2	\$64.06		480.0 ml	
Ē		Hydraulic Crane 40ton/105'			2	\$86.76		960.0 hr	
E	1914	Wheel Loader Cat 914/1.7cy			2	\$32.56		480.0 hr	
E		Compressor, trailer 1200cfm				\$77.25		480.0 hr	
E	g10	Generator, trailer 10.0kW				\$5.37		480.0 hr	
L	•	Compressorman (Grp 5)				\$5.57 \$64.06		480.0 ml	
E	lp6	Light Plant/Genset, 6kW, 4/10	001/1/		3	\$8.51		1440 hr	
S	•	Muck disposal	8667 lcv		3	\$35.00		8667 lc	
0	HUCK	Widek disposal	Soil Nail Crew			ψ33.00	ЛСУ	0007 103	γ ψ505,545
L	lfm	Labor FM				\$54.65	/mhr	480.0 ml	hr \$26,231
L	lab	General Labor (Grp 1)	20.00 day	10.00 mhr/day	6	\$51.94		1200 m	
L	drill	Drill operator (Grp 6)	20.00 day	10.00 mhr/day	2	\$64.06		400.0 ml	
Е	at	Air track 12' feed	,	,	2	\$36.95		960.0 hr	
Ε	ml30	Man-Lift 30' articulated boom			2	\$16.98		960.0 hr	
Ε	gp	Grout Plant, skid	20.00 day	10.00 hr/day	2	\$16.84		400.0 hr	
М	sn	Soil nials	72.00 ea	,		\$219	/ea	72.00 ea	
М	cs	Cement - sack	72.00 ea			\$14.98	/ea	72.00 ea	\$1,079
			Excavation Crew			•			. ,
L	lab	General Labor (Grp 1)	24.00 day	10.00 mhr/day	2	\$51.94	/mhr	480.0 ml	hr \$24,931
L	eo3+	Excavator >3.5cy (Grp 8)	24.00 day	10.00 mhr/day	2	\$64.06	/mhr	480.0 ml	hr \$30,747
Ε	he330	SK330LC Exc 77.8/2.1cy	24.00 day	10.00 hr/day	2	\$151	/hr	480.0 hr	\$72,493
		•	Shotcrete Crew	•					•
L	lab	General Labor (Grp 1)	4.00 day	10.00 mhr/day	6	\$51.94	/mhr	240.0 m	hr \$12,466
Ε	sp2	Shotcrete pot Aliva, 2cy/hr	4.00 day	10.00 hr/day	2	\$38.48	/hr	80.00 hr	\$3,079
M	shcrt	Shotcrete	74.00 cy			\$160	/cy	74.00 cy	\$11,840
No.		scription		Item Quantity/Unit	Produ	iction rate		er fixed time	Total time
024	MIT Co	mfort Road - Pour SB Jackin	-	370 cy			1	0 days	10 work days
		manhours		Equipment		Material		Subcontract	Item Cost
		2,100	\$130,972	\$54,158		\$120,979		<b>\$0</b>	\$306,110
		5.676	\$353.98	\$146.37		\$326.97	_	\$0.00	\$827.32
	1 000	Status (Additive)	10 hr/shift	Work schedule	5.0	day/wook		other ST pay	Other OT pay
	1.000	Schedule factor (Normal) Install reinforcement	10 111/511111	1 shift/day 44400 lb		day/week b/mhr		0 hr/shift 0 mhr/day	0 hr/shift 6 days
		Install jacking support beams		עו טטדדי	130 1	D/111111	J	o min/day	3 days
		Pour concrete		370 cy					1 days
		Total duration		J. J J,					10 days
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Ur	nit Cost	Resource Quar	•
L	lp	Labor premium				5.241%		\$124,4	•
M	sts	Small tools and supplies				\$3.00	/mhr	2100 ml	
									* - /



Support Crew

No.	Item De	escription		Item Quantity/Unit	Produc	tion rate Other	fixed time	Total time
М	хс	Concrete consumables				\$10.70 /cy	370.0 cy	\$3,959
E	vib2	Conc. vibrator, internal, 1.75"			2	\$19.19 /hr	200.0 hr	\$3,838
E		Conc. Pump, truck 130cy/hr				\$189 /hr	100.0 hr	\$18,898
L	conc	Concrete equip.oper. (Grp 2)				\$61.73 /mhr	100.0 mhr	\$6,173
М	stl12	Steel shapes	57600 lb			\$0.64 /lb	57600 lb	\$36,979
М	rp	Reinforcing steel, plain	44400 lb			\$0.49 /lb	44400 lb	\$21,756
М	xr	Reinforcing steel mat'l	44400 lb			\$0.10 /lb	44400 lb	\$4,440
М	c4	Concrete, 4000psi mix				\$129 /cy	370.0 cy	\$47,545
L	ijm	Ironworker JM			4	\$69.42 /mhr	400.0 mhr	\$27,766
L	ifm	Ironworker FM			1	\$72.12 /mhr	100.0 mhr	\$7,212
L	lab	General Labor (Grp 1)			6	\$51.94 /mhr	600.0 mhr	\$31,164
L	lfm	Labor FM				\$54.65 /mhr	100.0 mhr	\$5,465
		_	Slab Crew					
Ε	lp6	Light Plant/Genset, 6kW, 4/10	W000		3	\$8.51 /hr	300.0 hr	\$2,552
L	comp	Compressorman (Grp 5)				\$64.06 /mhr	100.0 mhr	\$6,406
Ε	g10	Generator, trailer 10.0kW				\$5.37 /hr	100.0 hr	\$537
Ε	cp12	Compressor, trailer 1200cfm				\$77.25 /hr	100.0 hr	\$7,725
Ε	1914	Wheel Loader Cat 914/1.7cy				\$32.56 /hr	100.0 hr	\$3,256
Ē	hc40	Hydraulic Crane 40ton/105'			2	\$86.76 /hr	200.0 hr	\$17,352
Ē	lo4+	Loader oper. >4cy (Grp 10)			_	\$64.06 /mhr	100.0 mhr	\$6,406
ī	c45-	Crane oper. <45t (Grp 9)			2	\$64.06 /mhr	200.0 mhr	\$12,811
ī	flag	Flagman (Grp 1)			_	\$51.94 /mhr	100.0 mhr	\$5,194
ī	lab	General Labor (Grp 1)			2	\$51.94 /mhr	200.0 mhr	\$10,388
1	lfm	Labor FM				\$54.65 /mhr	100.0 mhr	\$5,465

No.	Item De	escription		Item Quantity/Unit	Produ	uction rate	Other fixed time	Total time
025	Mt Co	mfort Road - Jet Grout Head	wall	148 cy			6 days	6 work days
		manhours		Equipment		Material	Subcontract	Item Cost
		360	, ,	\$18,854		\$1,080	\$196,990	\$238,303
		2.432	\$144.46	\$127.39		\$7.30	\$1,331.01	\$1,610.16
		Status (Additive)		Work schedule			Other ST pay	Other OT pay
	1.000	Schedule factor (Normal)	10 hr/shift	1 shift/day	5 (	day/week	0 hr/shift	0 hr/shift
		Jet grout headwall at receiving		structure				
		Mobilize & setup jet grout ope	ration		3 (	days		
		Jet grout	148 cy	200 cy/day	1 0	days		
		Demobilize				days		
		Total duration			6 0	days		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Unit Co		
L	lp	Labor premium				5.241%	\$20,	
M	sts	Small tools and supplies				\$3.00 /ml	nr 360.0 m	ıhr \$1,080
			Support Crew					
L	lfm	Labor FM				\$54.65 /mh		, -, -
L	lab	General Labor (Grp 1)			2	\$51.94 /ml		, -,
L	flag	Flagman (Grp 1)				\$51.94 /ml		+-,
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06 /mh		,-,
Е	hc40	Hydraulic Crane 40ton/105'			2	\$86.76 /hr	120.0 hi	, ,
Е	1914	Wheel Loader Cat 914/1.7cy				\$32.56 /hr	60.00 hi	, ,
Е	cp12	Compressor, trailer 1200cfm				\$77.25 /hr	60.00 hi	7 .,
Е	g10	Generator, trailer 10.0kW				\$5.37 /hr	60.00 hi	, .
L	comp	- 1 (-1-)				\$64.06 /mh		+ - ,
Е	lp6	Light Plant/Genset, 6kW, 4/10			3	\$8.51 /hr	180.0 hi	, ,
S	muck	Muck disposal	74.00 lcy			\$35.00 /lcy	74.00 lc	y \$2,590
			Jet Grout Subcont	ractor				
S	jgm	Jet Grouting Mob	1.00 LS			\$150,000 /LS	1.00 L	S \$150,000
S	jg	Jet Grouting				\$300 /cy	148.0 cy	\$44,400

<ul><li>Item Description</li><li>Mt Comfort Rd- Exc &amp; Support S</li></ul>	B Receiving Pit	Item Quantity/Unit <b>1 LS</b>	Production rate	Other fixed time 48 days	Total time 48 work days
manhou <b>7,12</b>	rs Labor	Equipment <b>\$284,907</b>	Material <b>\$50,047</b>	Subcontract \$303,345	Item Cos \$1,065,933
Status (Additive)		Work schedule		Other ST pay	Other OT pay
1.000 Schedule factor (Normal)	10 hr/shift	1 shift/day	5 day/week	0 hr/shift	0 hr/shift
Soil nail & shotcrete installat	ion - Two crews NB	& SB	2 crews		
Excavation per level		1445 bcy	250 cy/day	6 days	
Install soil nails per level		18 ea	4 ea/day	5 days	
Shotcrete per level		19 cy	2 cy/hr	1 days	
Number of levels		4 ea	•	,	
Total duration				48 days	



R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Unit Cost	Resource Quantity	Resource Cost
L	lp	Labor premium	·			5.241%	\$406,337	\$21,297
M	sts	Small tools and supplies				\$3.00 /mhr	7120 mhr	\$21,360
			Support Crew					
L	lfm	Labor FM				\$54.65 /mhr	480.0 mhr	\$26,231
L	lab	General Labor (Grp 1)			2	\$51.94 /mhr	960.0 mhr	\$49,863
L	flag	Flagman (Grp 1)				\$51.94 /mhr	480.0 mhr	\$24,931
L	c45-	Crane oper. <45t (Grp 9)			2	\$64.06 /mhr	960.0 mhr	\$61,494
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06 /mhr	480.0 mhr	\$30,747
Е	hc40	,			2	\$86.76 /hr	960.0 hr	\$83,290
Е	1914	Wheel Loader Cat 914/1.7cy				\$32.56 /hr	480.0 hr	\$15,628
E	cp12	Compressor, trailer 1200cfm				\$77.25 /hr	480.0 hr	\$37,081
Ē	g10	Generator, trailer 10.0kW				\$5.37 /hr	480.0 hr	\$2,577
L	•	Compressorman (Grp 5)				\$64.06 /mhr	480.0 mhr	\$30,747
Ē	lp6	Light Plant/Genset, 6kW, 4/1	000W		3	\$8.51 /hr	1440 hr	\$12,251
S	•	Muck disposal	8667 lcv		3	\$35.00 /lcy	8667 lcy	\$303,345
3	HUCK	Muck disposal	Soil Nail Crew			φ33.00 /icy	ooo7 icy	ψ303,343
L	lfm	Labor FM	Son Ivan Crew			\$54.65 /mhr	480.0 mhr	\$26,231
L	lab	General Labor (Grp 1)	20.00 day	10.00 mhr/day	6	\$54.03 /mm	1200 mhr	\$62,328
		` ' '	•	•		•		
L	drill	Drill operator (Grp 6)	20.00 day	10.00 mhr/day	2	\$64.06 /mhr	400.0 mhr	\$25,622
E	at	Air track 12' feed			2	\$36.95 /hr	960.0 hr	\$35,468
E	ml30	Man-Lift 30' articulated boom		40.00  /.	2	\$16.98 /hr	960.0 hr	\$16,305
E	gp	Grout Plant, skid	20.00 day	10.00 hr/day	2	\$16.84 /hr	400.0 hr	\$6,734
М	sn	Soil nials	72.00 ea			\$219 /ea	72.00 ea	\$15,768
M	CS	Cement - sack	72.00 ea			\$14.98 /ea	72.00 ea	\$1,079
			Excavation Crew					
L	lab	General Labor (Grp 1)	24.00 day	10.00 mhr/day	2	\$51.94 /mhr	480.0 mhr	\$24,931
L		Excavator >3.5cy (Grp 8)	24.00 day	10.00 mhr/day	2	\$64.06 /mhr	480.0 mhr	\$30,747
Е	he330	) SK330LC Exc 77.8/2.1cy	24.00 day	10.00 hr/day	2	\$151 /hr	480.0 hr	\$72,493
			Shotcrete Crew					
L	lab	General Labor (Grp 1)	4.00 day	10.00 mhr/day	6	\$51.94 /mhr	240.0 mhr	\$12,466
Е	sp2	Shotcrete pot Aliva, 2cy/hr	4.00 day	10.00 hr/day	2	\$38.48 /hr	80.00 hr	\$3,079
М	shcrt	Shotcrete	74.00 cy			\$160 /cy	74.00 cy	\$11,840
						φ10070		Ψ11,010
	Item De	ecrintion		Item Quantity/Unit	Produ			
No.		escription	•	Item Quantity/Unit	Produ		ner fixed time	Total time
No.		omfort Road - Pour SB Mud I	Mat Receiving Pit	185 cy	Produ	uction rate Ot	ner fixed time  1 day  1	Total time work day
No.		omfort Road - Pour SB Mud I manhour	Mat Receiving Pit	185 cy Equipment	Produ	uction rate Ot  Material	ner fixed time  1 day  Subcontract	Total time  work day  Item Cost
No.		omfort Road - Pour SB Mud I manhour 160	Mat Receiving Pit s Labor ) \$9,416	185 cy Equipment \$5,032	Produ	oction rate Ot  Material  \$25,492	ner fixed time  1 day  Subcontract \$0	Total time  work day  Item Cost \$39,940
No.		omfort Road - Pour SB Mud I manhour 160 0.868	Mat Receiving Pit s Labor ) \$9,416	185 cy Equipment \$5,032 \$27.20	Produ	Material \$25,492 \$137.79	ner fixed time  1 day  Subcontract  \$0  \$0.00	Total time  work day  Item Cost \$39,940 \$215.89
No.	Mt Co	omfort Road - Pour SB Mud I manhour 160 0.868 Status (Additive)	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90	185 cy Equipment \$5,032 \$27.20 Work schedule		Material \$25,492 \$137.79	ner fixed time  1 day Subcontract \$0 \$0.00  Other ST pay  Other ST pay  Other ST pay  Other ST pay	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay
No.	Mt Co	omfort Road - Pour SB Mud I manhour 160 0.865 Status (Additive) Schedule factor (Normal)	Mat Receiving Pit s Labor ) \$9,416	Equipment \$5,032 \$27.20 Work schedule 1 shift/day	5 c	Material \$25,492 \$137.79 day/week	ner fixed time  1 day Subcontract \$0 \$0.00  Other ST pay  Other ST pay  Other ST pay  Other ST pay	Total time  work day  Item Cost \$39,940 \$215.89
No.	Mt Co	omfort Road - Pour SB Mud I manhour 160 0.868 Status (Additive) Schedule factor (Normal) Pour concrete	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90	185 cy Equipment \$5,032 \$27.20 Work schedule	5 c	Material \$25,492 \$137.79 day/week	ner fixed time  1 day Subcontract \$0 \$0.00  Other ST pay  Other ST pay  Other ST pay  Other ST pay	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay
No. <b>027</b>	1.000	omfort Road - Pour SB Mud I manhour 160 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c	Material \$25,492 \$137.79 day/week days	ner fixed time  1 day Subcontract \$0 \$0.00  Other ST pay O hr/shift	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay hr/shift
No.	1.000 Code	omfort Road - Pour SB Mud I manhour 16( 0.86s Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90	Equipment \$5,032 \$27.20 Work schedule 1 shift/day	5 c	Material \$25,492 \$137.79 day/week days Resource Unit Cost	ner fixed time  1 day Subcontract \$0 \$0.00  Other ST pay O hr/shift  Resource Quantity	Total time  work day  Item Cost \$39,940 \$215.89 ther OT pay hr/shift  Resource Cost
No. <b>027</b>	1.000  Code	omfort Road - Pour SB Mud I manhour 16( 0.86) Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c	Material \$25,492 \$137.79 day/week days days Resource Unit Cost 5.241%	ner fixed time  1 day Subcontract \$0 \$0.00  Other ST pay O hr/shift  Resource Quantity \$8,947	Total time  work day  Item Cost \$39,940 \$215.89 ther OT pay hr/shift  Resource Cost \$469
No. <b>027</b>	1.000 Code	omfort Road - Pour SB Mud I manhour 16( 0.86s Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift  Resource Qty/Unit	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c	Material \$25,492 \$137.79 day/week days Resource Unit Cost	ner fixed time  1 day Subcontract \$0 \$0.00  Other ST pay O hr/shift  Resource Quantity	Total time  work day  Item Cost \$39,940 \$215.89 ther OT pay hr/shift  Resource Cost
No. <b>027</b>	1.000  Code  Ip  sts	omfort Road - Pour SB Mud I manhour 16( 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c	Material \$25,492 \$137.79 day/week days Resource Unit Cost 5.241% \$3.00 /mhr	ner fixed time  1 day Subcontract \$0 \$0.00  Other ST pay O hr/shift  Resource Quantity \$8,947 160.0 mhr	Total time  work day  Item Cost \$39,940 \$215.89 ther OT pay hr/shift  Resource Cost \$469 \$480
No. 027	1.000  Code   Ip sts   Ifm	omfort Road - Pour SB Mud I manhour 16( 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies Labor FM	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift  Resource Qty/Unit	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79 day/week days Resource Unit Cost 5.241% \$3.00 /mhr	ner fixed time  1 day  \$0  \$0.00  Other ST pay  0 hr/shift  Resource Quantity  \$8,947  160.0 mhr	Total time  work day  Item Cost \$39,940 \$215.89 ther OT pay hr/shift  Resource Cost \$469 \$480 \$546
R/T L M	1.000  Code   p sts   Ifm   lab	omfort Road - Pour SB Mud I manhour 16( 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1)	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift  Resource Qty/Unit	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c	Material \$25,492 \$137.79 day/week days Resource Unit Cost 5.241% \$3.00 /mhr \$54.65 /mhr \$51.94 /mhr	ner fixed time  1 day  \$0.00  Subcontract  \$0.00  Other ST pay  0 hr/shift  Resource Quantity  \$8,947  160.0 mhr  10.00 mhr  20.00 mhr	Total time    work day     tem Cost   \$39,940   \$215.89   ther OT pay   ther/shift     Resource Cost   \$469   \$480   \$546   \$1,039
R/T L M L L L L	1.000  Code Ip sts Ifm lab flag	omfort Road - Pour SB Mud I manhour 16( 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1)	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift  Resource Qty/Unit	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79  day/week days Resource Unit Cost 5.241% \$3.00 /mhr \$54.65 /mhr \$51.94 /mhr	ner fixed time  1 day  \$0.00  Subcontract  \$0.00  Other ST pay  0 hr/shift  Resource Quantity  \$8,947  160.0 mhr  10.00 mhr  20.00 mhr  10.00 mhr	Total time    work day     tem Cost   \$39,940   \$215.89     ther OT pay     hr/shift     Resource Cost   \$469   \$480   \$546   \$1,039   \$519
R/T L M L L L L	1.000  Code Ip sts Ifm Iab flag c45-	omfort Road - Pour SB Mud I manhour 16( 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9)	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift  Resource Qty/Unit	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79  day/week days days Resource Unit Cost 5.241% \$3.00 /mhr \$54.65 /mhr \$51.94 /mhr \$64.06 /mhr	Resource Quantity  \$8,947  10.00 mhr  20.00 mhr  20.00 mhr  20.00 mhr  20.00 mhr	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay hr/shift  Resource Cost \$469 \$480 \$546 \$1,039 \$519 \$1,281
R/T L M L L L L L	1.000  Code Ip sts Ifm Iab flag c45- Io4+	omfort Road - Pour SB Mud I manhour 16( 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10)	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift  Resource Qty/Unit	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor 2 2	Material \$25,492 \$137.79  day/week days days Resource Unit Cost 5.241% \$3.00 /mhr \$54.65 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr	ner fixed time  1 day  \$0.00  Subcontract  \$0.00  Other ST pay  0 hr/shift  C  Resource Quantity  \$8,947  160.0 mhr  10.00 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay hr/shift  Resource Cost \$469 \$480 \$546 \$1,039 \$519 \$1,281 \$641
R/T L M L L L L E	1.000  Code   p sts   ffm   lab   flag   c45-  lo4+  hc40	omfort Road - Pour SB Mud I manhour 16( 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105'	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift  Resource Qty/Unit	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79 day/week days Resource Unit Cost 5.241% \$3.00 /mhr \$54.65 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$64.06 /mhr \$86.76 /hr	Resource Quantity \$8,947 10.00 mhr 20.00 mhr 10.00 mhr 20.00 mhr 20.00 mhr 20.00 mhr 20.00 mhr 20.00 mhr	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay hr/shift  Resource Cost \$469 \$480 \$546 \$1,039 \$519 \$1,281 \$641 \$1,735
R/T L M L L L E E	1.000  Code Ip sts Ifm Iab flag c45- Io4+ hc40 I914	omfort Road - Pour SB Mud I manhour 16( 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift  Resource Qty/Unit	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor 2 2	Material \$25,492 \$137.79 day/week days Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$64.06 /mhr \$86.76 /hr \$32.56 /hr	ner fixed time  1 day  Subcontract  \$0  \$0.00  Other ST pay  O hr/shift  Resource Quantity  \$8,947  160.0 mhr  10.00 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay hr/shift  Resource Cost \$469 \$480 \$546 \$1,039 \$519 \$1,281 \$641 \$1,735 \$326
R/T L M L L L E E E E	1.000  Code   p sts   ffm   lab   flag   c45-  lo4+  hc40   l914   cp12	omfort Road - Pour SB Mud I manhour 160 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift  Resource Qty/Unit	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor 2 2	Material \$25,492 \$137.79 day/week days Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$64.06 /mhr \$86.76 /hr \$32.56 /hr	ner fixed time  1 day  Subcontract  \$0  \$0.00  Other ST pay  O hr/shift  Resource Quantity  \$8,947  160.0 mhr  10.00 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr  10.00 mhr  10.00 mhr	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay hr/shift  Resource Cost \$469 \$480 \$546 \$1,039 \$519 \$1,281 \$641 \$1,735 \$326 \$773
R/T L M L L L E E E E E	1.000  Code   p sts   fm   lab   flag   c45-lo4+   hc40   l914   cp12   g10	omfort Road - Pour SB Mud I manhour 160 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW	Mat Receiving Pit s Labor 0 \$9,416 5 \$50.90 10 hr/shift  Resource Qty/Unit	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor 2 2	Material \$25,492 \$137.79  day/week days Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$64.06 /mhr \$86.76 /hr \$32.56 /hr \$77.25 /hr	ner fixed time  1 day  Subcontract  \$0  \$0.00  Other ST pay  O hr/shift  Resource Quantity  \$8,947  160.0 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr  10.00 mhr  10.00 mhr  10.00 mhr	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay hr/shift  Resource Cost \$469 \$480 \$546 \$1,039 \$519 \$1,281 \$641 \$1,735 \$326 \$773 \$54
R/T L L L L E E E E L L	1.000  Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp	omfort Road - Pour SB Mud I manhour 160 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5)	Mat Receiving Pit S Labor D \$9,416 S \$50.90  10 hr/shift  Resource Qty/Unit  Support Crew	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79  day/week days alays Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$86.76 /hr \$32.56 /hr \$77.25 /hr \$5.37 /hr	Resource Quantity \$8,947 10.00 mhr 20.00 mhr 10.00 mhr 20.00 mhr 10.00 mhr	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay  hr/shift  Resource Cost \$469 \$480  \$546 \$1,039 \$519 \$1,281 \$641 \$1,735 \$326 \$773 \$54 \$641
R/T L M L L L E E E E E	1.000  Code   p sts   fm   lab   flag   c45-lo4+   hc40   l914   cp12   g10	omfort Road - Pour SB Mud I manhour 160 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW	Mat Receiving Pit S Labor D \$9,416 S \$50.90  10 hr/shift  Resource Qty/Unit  Support Crew	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor 2	Material \$25,492 \$137.79  day/week days Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$64.06 /mhr \$86.76 /hr \$32.56 /hr \$77.25 /hr	ner fixed time  1 day  Subcontract  \$0  \$0.00  Other ST pay  O hr/shift  Resource Quantity  \$8,947  160.0 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr  10.00 mhr  10.00 mhr  10.00 mhr	Total time  work day  Item Cost \$39,940 \$215.89  ther OT pay hr/shift  Resource Cost \$469 \$480 \$546 \$1,039 \$519 \$1,281 \$641 \$1,735 \$326 \$773 \$54
R/T L L L L E E E L E	1.000  Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6	omfort Road - Pour SB Mud I manhour 160 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5)	Mat Receiving Pit S Labor D \$9,416 S \$50.90  10 hr/shift  Resource Qty/Unit  Support Crew	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79  day/week days days Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$86.76 /hr \$32.56 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mhr	ner fixed time  1 day  Subcontract  \$0  \$0.00  Other ST pay  0 hr/shift  Resource Quantity  \$8,947  160.0 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr  10.00 mhr  10.00 mhr  10.00 mhr  10.00 hr  10.00 hr  10.00 hr  10.00 hr  10.00 hr	Total time    work day
R/T L L L L E E E L E L E	1.000  Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 Ifm	omfort Road - Pour SB Mud I manhour 166 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105¹ Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1 Labor FM	Mat Receiving Pit S Labor D \$9,416 S \$50.90  10 hr/shift  Resource Qty/Unit  Support Crew	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79  day/week days days Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$86.76 /hr \$32.56 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mhr \$8.51 /hr	ner fixed time  1 day  \$0.00 \$0.00  Other ST pay  0 hr/shift  Resource Quantity  \$8,947 160.0 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr  10.00 hr  10.00 hr  10.00 hr  10.00 hr  10.00 hr  10.00 hr  10.00 mhr  10.00 hr  10.00 mhr	Total time    work day
R/T L L L L E E E L L L L	1.000  Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 Ifm lab	omfort Road - Pour SB Mud I manhour 166 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105¹ Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1 Labor FM General Labor (Grp 1)	Mat Receiving Pit S Labor D \$9,416 S \$50.90  10 hr/shift  Resource Qty/Unit  Support Crew	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79  day/week days days Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$86.76 /hr \$32.56 /hr \$77.25 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mhr \$8.51 /hr	ner fixed time  1 day  Subcontract  \$0  \$0.00  Other ST pay  O hr/shift  Resource Quantity  \$8,947  160.0 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 mhr  10.00 hr  10.00 hr  10.00 hr  10.00 hr  10.00 hr  10.00 mhr  10.00 hr  10.00 mhr  10.00 hr  10.00 mhr  10.00 mhr  10.00 mhr	Total time    work day
R/T L L L L E E E L L M	1.000  Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6 Ifm lab c3	omfort Road - Pour SB Mud I manhour 166 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1  Labor FM General Labor (Grp 1) Concrete, 3000psi mix	Mat Receiving Pit S Labor D \$9,416 D \$50.90  10 hr/shift  Resource Qty/Unit  Support Crew  0000W Slab Crew	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79  day/week days days Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$86.76 /hr \$32.56 /hr \$77.25 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mhr \$8.51 /hr \$54.65 /mhr \$51.94 /mhr \$125 /cy	ner fixed time 1 day Subcontract \$0 \$0.00 Sther ST pay O hr/shift  Resource Quantity \$8,947 160.0 mhr 20.00 mhr 10.00 mhr 20.00 mhr 10.00 hr 10.00 hr 10.00 hr 10.00 hr 10.00 hr 10.00 hr 10.00 mhr 30.00 hr	Total time    work day
R/T L L L L E E E L L M L	1.000  Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6 Ifm lab c3 conc	omfort Road - Pour SB Mud I manhour 166 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 12.00cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1  Labor FM General Labor (Grp 1) Concrete, 3000psi mix Concrete equip.oper. (Grp 2)	Mat Receiving Pit S Labor D \$9,416 D \$50.90  10 hr/shift  Resource Qty/Unit  Support Crew  0000W Slab Crew	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79  day/week days days Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$86.76 /hr \$77.25 /hr \$77.25 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mhr \$8.51 /hr \$54.65 /mhr \$51.94 /mhr \$125 /cy \$61.73 /mhr	ner fixed time  1 day  Subcontract  \$0  \$0.00  Other ST pay  O hr/shift  Resource Quantity  \$8,947  160.0 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 hr  10.00 hr  10.00 hr  10.00 hr  10.00 hr  10.00 mhr  10.00 mhr  10.00 hr  10.00 hr  10.00 mhr   Total time    work day	
R/T L L L L E E E L L M L E	1.000  Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6 Ifm lab c3 conc cb130	omfort Road - Pour SB Mud I manhour 166 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 12.00cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1  Labor FM General Labor (Grp 1) Concrete, 3000psi mix Concrete equip.oper. (Grp 2) Conc. Pump, truck 130cy/hr	Mat Receiving Pit S Labor D \$9,416 D \$50.90  10 hr/shift  Resource Qty/Unit  Support Crew  0000W Slab Crew	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c Factor	Material \$25,492 \$137.79  day/week days lays Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$86.76 /hr \$77.25 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mhr \$8.51 /hr \$54.65 /mhr \$51.94 /mhr \$125 /cy \$61.73 /mhr \$189 /hr	Resource Quantity \$8,947 160.0 mhr 20.00 mhr 10.00 mhr 20.00 mhr 10.00 mhr 10.00 mhr 10.00 mhr 10.00 hr 10.00 hr 10.00 hr 10.00 hr 10.00 hr 10.00 hr 10.00 mhr 10.00 mhr 10.00 hr 10.00 hr 10.00 mhr 10.00 mhr 10.00 mhr 10.00 hr 10.00 mhr	Total time    work day
R/T L L L L E E E L L M L	1.000  Code Ip sts Ifm lab flag c45-lo4+hc40 l914 cp12 g10 comp lp6 Ifm lab c3 conc	omfort Road - Pour SB Mud I manhour 166 0.868 Status (Additive) Schedule factor (Normal) Pour concrete Total duration Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 12.00cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1  Labor FM General Labor (Grp 1) Concrete, 3000psi mix Concrete equip.oper. (Grp 2)	Mat Receiving Pit S Labor D \$9,416 D \$50.90  10 hr/shift  Resource Qty/Unit  Support Crew  0000W Slab Crew	Equipment \$5,032 \$27.20 Work schedule 1 shift/day 185 days	5 c 1 c 1 c 5 c 5 c 5 c 5 c 5 c 5 c 5 c	Material \$25,492 \$137.79  day/week days days Resource Unit Cost 5.241% \$3.00 /mhr \$51.94 /mhr \$51.94 /mhr \$64.06 /mhr \$86.76 /hr \$77.25 /hr \$77.25 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mhr \$8.51 /hr \$54.65 /mhr \$51.94 /mhr \$125 /cy \$61.73 /mhr	ner fixed time  1 day  Subcontract  \$0  \$0.00  Other ST pay  O hr/shift  Resource Quantity  \$8,947  160.0 mhr  20.00 mhr  10.00 mhr  20.00 mhr  10.00 hr  10.00 hr  10.00 hr  10.00 hr  10.00 hr  10.00 mhr  10.00 mhr  10.00 hr  10.00 hr  10.00 mhr   Total time    work day     Item Cost	



	Item De	mfort Road - Cast SB Culver		Item Quantity/Unit <b>566 cy</b>	Prod	uction rate		ther fixed time  22 days	22	Total time
		manhours <b>5,320</b> 9.408	Labor <b>\$368,402</b> \$651.46	Equipment <b>\$101,619</b> \$179.70		Material <b>\$193,323</b> \$341.86		\$0 \$0.00		\$663,345 \$1,173.02
		Status (Additive)	*******	Work schedule		************		Other ST pay	Ot	her OT pay
	1.000	Schedule factor (Normal)	10 hr/shift	1 shift/day	5	day/week		0 hr/shift	0	hr/shift
		Set / strip slab forms	480 sf	16 sf/mhr	70	mhr/day		2 days		
		Set / strip wall forms	4914 sf	16 sf/mhr	70	mhr/day		5 days		
		Set / strip roof forms	2500 sf	8 sf/mhr	70	mhr/day		5 days		
		Install reinforcment	67860 lb	150 lb/mhr	80 ו	mhr/day		6 days		
		Concrete pours	4 ea	1 ea/day				4 days		
		Total duration						22 days		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Ur	nit Cos			Resource Cos
-	lp	Labor premium				5.241%			0,055	\$18,347
M	sts	Small tools and supplies	Support Crew			\$3.00	/mhr	5320	mhr	\$15,960
_	lfm	Labor FM				\$54.65	/mhr	220.0	mhr	\$12,022
-	lab	General Labor (Grp 1)			2	\$51.94	/mhr	440.0	mhr	\$22,854
-	flag	Flagman (Grp 1)				\$51.94	/mhr	220.0	mhr	\$11,427
-	c45-	Crane oper. <45t (Grp 9)				\$64.06	/mhr	220.0	mhr	\$14,092
-	lo4+	Loader oper. >4cy (Grp 10)				\$64.06	/mhr	220.0	mhr	\$14,092
Ξ	hc40	Hydraulic Crane 40ton/105'				\$86.76	/hr	220.0	hr	\$19,087
Ξ	1914	Wheel Loader Cat 914/1.7cy				\$32.56	/hr	220.0	hr	\$7,163
Ξ	cp12	Compressor, trailer 1200cfm				\$77.25	/hr	220.0	hr	\$16,996
Ξ	g10	Generator, trailer 10.0kW				\$5.37	/hr	220.0	hr	\$1,181
_	comp	Compressorman (Grp 5)				\$64.06	/mhr	220.0	mhr	\$14,092
Ε	lp6	Light Plant/Genset, 6kW, 4/10	00W		3	\$8.51	/hr	660.0	hr	\$5,615
Ξ	p205	Pump, trash 205gpm/100ft he	ad			\$10.73	/hr	220.0	hr	\$2,361
Ξ	wtp	Water Treatment Plant				\$99.42	/hr	220.0	hr	\$21,871
	·		Structure Crew							
_	lfm	Labor FM				\$54.65	/mhr	220.0	mhr	\$12,022
_	lab	General Labor (Grp 1)				\$51.94	/mhr	220.0	mhr	\$11,427
_	cfm	Carpenter FM			1	\$75.56	/mhr	220.0	mhr	\$16,623
_	cjm	Carpenter JM			6	\$72.85	/mhr	1320	mhr	\$96,166
_	ifm	Ironworker FM			1	\$72.12				\$15,867
_	ijm	Ironworker JM			7	\$69.42		1540		\$106,901
_	•	Concrete equip.oper. (Grp 2)	4.00 day	10.00 mhr/day	-	\$61.73				\$2,469
Ξ		Conc. Pump, truck 130cy/hr	4.00 day	10.00 hr/day		\$189		40.00		\$7,559
=	vib	Concrete vibrators	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6	\$9.33		1320		\$12,313
M	lumb	Lumber for lagging/forms	7894 sf	1.50 bf/sf	ŭ	\$2.35		11841		\$27,874
M	ply1	Plywood MDO 1"	7894 sf	1.00 5//01		\$2.46		7894		\$19,427
v.	ff .	Form fasteners	7894 sf			\$0.32		7894		\$2,534
v.	foil	Form oil	7894 sf			\$0.16		7894		\$1,267
v.	cure	Curing compound	7894 sf			\$0.02		7894		\$169
M	xf	Misc form supplies	7894 sf			\$0.43		7894		\$3,379
=	ml30	Man-Lift 30' articulated boom	7004 31		2	\$16.98		440.0		\$7,473
_ И	c5	Concrete, 5000psi mix				\$136		565.5		\$76,625
M	XC	Concrete consumables				\$10.70	•	565.5	•	\$6,051
VI VI	rp	Reinforcing steel, plain	67860 lb			\$0.49	•	67860	•	\$33,251
И	xr	Reinforcing steel mat'l	67860 lb			\$0.49		67860		\$6,786
No.	Item De	escription		Item Quantity/Unit	Prod	uction rate	O	ther fixed time		Total time
		mfort Road - Cast SB Culver	t #2	566 cy				22 days	22	work days
		manhours		Equipment		Material		Subcontract		Item Cos
		5,320	\$368,402	\$101,619		\$193,431		\$0		\$663,453
		9.399	\$650.89	\$179.54		\$341.75		\$0.00		\$1,172.18
		Status (Additive)	,	Work schedule		, -		Other ST pay	Ot	her OT pay
	1.000	Schedule factor (Normal)	10 hr/shift	1 shift/day	5	day/week		0 hr/shift		hr/shift
		Set / strip slab forms	480 sf	16 sf/mhr		mhr/day		2 days		
		Set / strip wall forms	4914 sf	16 sf/mhr		mhr/day		5 days		
		Set / strip roof forms	2500 sf	8 sf/mhr		mhr/day		5 days		
		Install reinforcment	67920 lb	150 lb/mhr		mhr/day		6 days		
		Concrete pours	4 ea	1 ea/day	00 1	, aay		4 days		
		Total duration	7 Ca	i ca/uay				22 days		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Ur		-	ıantitu	Resource Cos
	lp Code	Labor premium	resource Qty/Utilt	FIOUUCIONTALE	racior	5.241%	iii COS		),055	\$18,347
		•					/mhr			\$15,960
M	sts	Small tools and supplies	Support Crew			\$3.00	/mhr	5320	mhr	\$15

Support Crew



L	lfm	Labor FM				\$54.65 /mł	r 220.0 mhr	\$12,022
L	lab	General Labor (Grp 1)			2	\$51.94 /ml	r 440.0 mhr	\$22,854
L	flag	Flagman (Grp 1)			_	\$51.94 /ml		\$11,427
Ĺ	c45-	Crane oper. <45t (Grp 9)				\$64.06 /ml		\$14,092
Ĺ	lo4+	Loader oper. >4cy (Grp 10)				\$64.06 /ml		\$14,092
		. , ,						
E		Hydraulic Crane 40ton/105'				\$86.76 /hr	220.0 hr	\$19,087
E	1914	Wheel Loader Cat 914/1.7cy				\$32.56 /hr	220.0 hr	\$7,163
E	cp12	•				\$77.25 /hr	220.0 hr	\$16,996
Е	g10	Generator, trailer 10.0kW				\$5.37 /hr	220.0 hr	\$1,181
L	comp	Compressorman (Grp 5)				\$64.06 /ml	r 220.0 mhr	\$14,092
Ε	lp6	Light Plant/Genset, 6kW, 4/10	W00		3	\$8.51 /hr	660.0 hr	\$5,615
E	p205	Pump, trash 205gpm/100ft he	ad			\$10.73 /hr	220.0 hr	\$2,361
Ε	wtp	Water Treatment Plant				\$99.42 /hr	220.0 hr	\$21,871
	•		Structure Crew			•		, ,
L	lfm	Labor FM				\$54.65 /ml	r 220.0 mhr	\$12,022
L	lab	General Labor (Grp 1)				\$51.94 /ml		\$11,427
Ĺ	cfm	Carpenter FM			1	\$75.56 /ml		\$16,623
Ĺ	cim	Carpenter JM			6	\$72.85 /ml		\$96,166
Ĺ	ifm	Ironworker FM			1	\$72.12 /ml		\$15,867
						•		
L	ijm	Ironworker JM	4.00	40.00	7	\$69.42 /ml		\$106,901
L		Concrete equip.oper. (Grp 2)	4.00 day	10.00 mhr/day		\$61.73 /ml		\$2,469
E		Conc. Pump, truck 130cy/hr	4.00 day	10.00 hr/day		\$189 /hr	40.00 hr	\$7,559
Ε	vib	Concrete vibrators			6	\$9.33 /hr	1320 hr	\$12,313
M	lumb	Lumber for lagging/forms	7894 sf	1.50 bf/sf		\$2.35 /bf	11841 bf	\$27,874
M	ply1	Plywood MDO 1"	7894 sf			\$2.46 /sf	7894 sf	\$19,427
М	ff	Form fasteners	7894 sf			\$0.32 /sf	7894 sf	\$2,534
М	foil	Form oil	7894 sf			\$0.16 /sf	7894 sf	\$1,267
М	cure	Curing compound	7894 sf			\$0.02 /sf	7894 sf	\$169
М	xf	Misc form supplies	7894 sf			\$0.43 /sf	7894 sf	\$3,379
E	ml30	• •	7004 51		2	\$16.98 /hr	440.0 hr	\$7,473
М	c5	Concrete, 5000psi mix				\$136 /cy	566.0 cy	\$76,693
		•				•	•	
M	XC	Concrete consumables	07000 11			\$10.70 /cy	566.0 cy	\$6,056
M	rp	Reinforcing steel, plain	67920 lb			\$0.49 /lb	67920 lb	\$33,281
М	xr	Reinforcing steel mat'l	67920 lb			\$0.10 /lb	67920 lb	\$6,792
No.		escription		Item Quantity/Unit	Produ	uction rate	Other fixed time	Total time
		mfort Road - Install Shield		1 LS	Produ		3 days	8 work days
		mfort Road - Install Shield manhours	Labor	1 LS Equipment	Produ	Material	3 days Subcontract	B work days Item Cost
		mfort Road - Install Shield manhours 390	Labor <b>\$23,637</b>	1 LS Equipment \$178,462	Produ		3 days 3 Subcontract \$0	work days ltem Cost \$203,270
	Mt Co	mfort Road - Install Shield manhours 390 Status (Additive)	\$23,637	1 LS Equipment \$178,462 Work schedule		Material <b>\$1,170</b>	3 days Subcontract \$0 Other ST pay	B work days Item Cost \$203,270 ther OT pay
	Mt Co	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal)		1 LS Equipment \$178,462 Work schedule 1 shift/day		Material	3 days Subcontract \$0 Other ST pay	work days ltem Cost \$203,270
	Mt Co	mfort Road - Install Shield manhours 390 Status (Additive)	\$23,637	1 LS Equipment \$178,462 Work schedule		Material <b>\$1,170</b>	3 days Subcontract \$0 Other ST pay	B work days Item Cost \$203,270 ther OT pay
	Mt Co	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal)	\$23,637	1 LS Equipment \$178,462 Work schedule 1 shift/day		Material <b>\$1,170</b>	3 days Subcontract \$0 Other ST pay O hr/shift Other ST Resource Quantity	B work days Item Cost \$203,270 ther OT pay hr/shift  Resource Cost
030	1.000	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks	\$23,637 10 hr/shift	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material <b>\$1,170</b> day/week	3 days Subcontract \$0 Other ST pay O hr/shift	B work days Item Cost \$203,270 ther OT pay hr/shift
030	1.000 Code	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description	\$23,637 10 hr/shift	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co	3 days Subcontract \$0 Other ST pay O hr/shift Other ST Resource Quantity \$22,460	B work days Item Cost \$203,270 ther OT pay hr/shift  Resource Cost
R/T L	1.000  Code Ip	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium	\$23,637 10 hr/shift	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241%	3 days Subcontract \$0 Other ST pay O hr/shift Other ST Resource Quantity \$22,460	B work days Item Cost \$203,270 ther OT pay hr/shift  Resource Cost \$1,177
R/T L	1.000  Code Ip	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium	\$23,637  10 hr/shift  Resource Qty/Unit	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241%	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay Standard Resource Quantity \$22,460 or 390.0 mhr	B work days Item Cost \$203,270 ther OT pay hr/shift  Resource Cost \$1,177
R/T L M	1.000  Code   Ip   sts   Ifm	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies Labor FM	\$23,637  10 hr/shift  Resource Qty/Unit	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh	3 days	8 work days
R/T L M L L	1.000  Code   Ip   sts   Ifm   lab	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1)	\$23,637  10 hr/shift  Resource Qty/Unit	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh	3 days Subcontract \$0 Other ST pay O hr/shift O hr/sh	8 work days
R/T L M L L	1.000  Code   p sts   Ifm   lab   flag	Infort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1)	\$23,637  10 hr/shift  Resource Qty/Unit	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh	3 days Subcontract \$0 Other ST pay O hr/shift O hr/shif	Resource Cost \$1,177 \$1,170 \$1,558 \$1,558
R/T   L   L   L   L   L   L   L   L   L	1.000  Code   p   sts   lfm   lab   flag   c45-	Infort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9)	\$23,637  10 hr/shift  Resource Qty/Unit	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh	3 days Subcontract \$0 Other ST pay O hr/shift O	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,922
R/T L M L L L L L L	1.000  Code   p sts   ffm   lab   flag   c45-lo4+	Infort Road - Install Shield  manhours 390  Status (Additive) Schedule factor (Normal)  Install shield & steering jacks Resource Description  Labor premium  Small tools and supplies  Labor FM  General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10)	\$23,637  10 hr/shift  Resource Qty/Unit	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh	3 days Subcontract \$0 Other ST pay O hr/shift O hr	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,922 \$1,922
R/T L M L L L L L E	1.000  Code   p sts   ffm   lab   flag   c45-lo4+   hc40	Infort Road - Install Shield  manhours 390  Status (Additive) Schedule factor (Normal)  Install shield & steering jacks Resource Description  Labor premium  Small tools and supplies  Labor FM  General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105'	\$23,637  10 hr/shift  Resource Qty/Unit	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$86.76 /hr	3 days Subcontract \$0 Other ST pay O hr/shift O hr	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,922 \$2,603
R/T L M L L L L E E E	1.000  Code   p sts   ffm   lab   flag c45-lo4+ hc40   l914	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy	\$23,637  10 hr/shift  Resource Qty/Unit	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$86.76 /hr \$32.56 /hr	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr s22,460 Other ST pay O hr s22,460 Other ST pay O hr s22,460 Other ST pay O hr s22,460 O hr s22,46	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977
R/T L M L L L L E E E E	1.000  Code   p sts   ffm   lab   flag   c45-lo4+ hc40   l914   cp12	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm	\$23,637  10 hr/shift  Resource Qty/Unit	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$86.76 /hr \$32.56 /hr	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr s22,460 Other ST pay O hr s22,460 Other ST pay O hr s20,00 mhr O hr s20,00 hr O hr s20,00 hr	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$1,922 \$2,603 \$977 \$2,318
R/T L M L L L E E E E E	1.000  Code   p sts   ffm   lab   flag   c45-  lo4+  hc40   l914   cp12   g10	Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW	\$23,637  10 hr/shift  Resource Qty/Unit	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170  day/week  Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$86.76 /hr \$32.56 /hr \$77.25 /hr \$5.37 /hr	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr s22,460 Other ST pay O hr s22,460 Other S22,460 Other S20,00 mhr Other S0,00 mhr Other S0,00 mhr Other S0,00 hr	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161
R/T L M L L L E E E E L L	1.000  Code   p sts   ffm   lab   flag   c45-  lo4+  hc40   l914   cp12   g10	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5)	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170  day/week  Resource Unit Co 5.241% \$3.00 /mh  \$54.65 /mh  \$51.94 /mh  \$51.94 /mh  \$64.06 /mh  \$64.06 /mh  \$86.76 /hr  \$32.56 /hr  \$77.25 /hr  \$64.06 /mh	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 390.0 mhr Other ST pay O hr Othe	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922
R/T L M L L L E E E E E	1.000  Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$32.56 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 30.00 mhr Other ST pay O hr Other ST pay O h	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$255
R/T L M L L L E E E E L L	1.000  Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5)	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170  day/week  Resource Unit Co 5.241% \$3.00 /mh  \$54.65 /mh  \$51.94 /mh  \$51.94 /mh  \$64.06 /mh  \$64.06 /mh  \$86.76 /hr  \$32.56 /hr  \$77.25 /hr  \$64.06 /mh	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 390.0 mhr Other ST pay O hr Othe	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922
R/T L M L L L L E E E E	1.000  Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew	1 LS Equipment \$178,462 Work schedule 1 shift/day 3 days	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$32.56 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 30.00 mhr Other ST pay O hr Other ST pay O h	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$255
R/T L M L L L E E E L E E E E	1.000  Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$32.56 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr \$10.73 /hr	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 30.00 mhr Other ST pay O hr Other	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$255 \$322
R/T L M L L L E E E L E E E E	1.000  Code Ip sts Ifm lab flag c45-lo4+ hc40 l914 cp12 g10 comp lp6 p205	mfort Road - Install Shield manhours 390 Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew  00W ad	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	5 (	Material \$1,170 day/week Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$32.56 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr \$10.73 /hr	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 30.00 mhr Other ST pay Other ST p	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$255 \$322
R/T L M L L L E E E E E E L E E E L	1.000  Code Ip sts Ifm Iab flag c45-Io4+ hc40 I914 cp12 g10 comp Ip6 p205 wtp Ifm	status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. >45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Water Treatment Plant	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew  00W ad	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	5 c	Material \$1,170  day/week  Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$64.06 /mh \$77.25 /hr \$7.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr \$10.73 /hr \$99.42 /hr \$54.65 /mh	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 30.00 mhr Other S22,460 Other S20,460 Other S20,00 mhr	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$2,55 \$322 \$2,982
R/T L M L L L E E E E L E E E L L L	1.000  Code Ip sts Ifm Iab flag c45-Io4+ hc40 I914 cp12 g10 comp Ip6 p205 wtp Ifm Iab	status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Water Treatment Plant  Labor FM General Labor (Grp 1)	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew  00W ad	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	5 (	Material \$1,170  day/week  Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$64.06 /mh \$32.56 /hr \$7.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr \$10.73 /hr \$99.42 /hr \$54.65 /mh \$51.94 /mh	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr S22,460 Other S20,00 mhr Other S0.00 mhr Other S0.00 mhr Other S0.00 hr Other S0.00 mhr Other ST pay Other ST p	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$2,55 \$322 \$2,982 \$1,639 \$4,675
R/T L M L L L E E E E E E L L L	1.000  Code Ip sts Ifm Iab flag c45-Io4+ hc40 I914 cp12 g10 comp Ip6 p205 wtp Ifm Iab c100+	status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. >45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11)	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew  00W ad	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	5 c	Material \$1,170  day/week  Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$32.56 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr \$10.73 /hr \$99.42 /hr \$54.65 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$64.06 /mh \$64.06 /mh	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr S22,460 Other S20,00 mhr Other S0.00 mhr Other S0.00 mhr Other S0.00 hr Other S0.00 hr Other S0.00 mhr Other ST pay O	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$2,55 \$322 \$2,982 \$1,639 \$4,675 \$1,922
R/T L L L L E E E E L L L L L L L L	1.000  Code Ip sts Ifm Iab flag c45-Io4+ hc40 I914 cp12 g10 comp Ip6 p205 wtp Ifm Iab c100+ mw	status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1)	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew  00W ad	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	Factor  3 2	Material \$1,170  day/week  Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$86.76 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr \$10.73 /hr \$99.42 /hr \$51.94 /mh \$64.06 /mh \$61.73 /mh	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr S22,460 Other S20,00 mhr Other S0.00 mhr Other S0.00 mhr Other S0.00 hr Other S0.00 hr Other S0.00 hr Other S0.00 mhr Other ST pay O mhr Other ST pay O mhr Other ST pay O mhr Other S0.00 mhr Other ST pay O mhr O m	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$2,55 \$322 \$2,982 \$1,639 \$4,675 \$1,922 \$3,704
R/T L L L E E E E L L L L E	1.000  Code Ip sts Ifm Iab flag c45-Io4+ hc40 I914 cp12 g10 comp Ip6 p205 wtp Ifm Iab c100+ mw ml30	Status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1) Man-Lift 30' articulated boom	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew  00W ad	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	Factor  3 2 2	Material \$1,170  day/week  Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$51.94 /mh \$64.06 /mh \$86.76 /hr \$32.56 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr \$10.73 /hr \$99.42 /hr \$51.94 /mh \$64.06 /mh \$61.73 /mh \$64.06 /mh	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 30.00 mhr Other ST pay O hr Other ST pay O hr Other ST pay O hr Other ST pay O mhr Other St. pay O mhr Other ST pay O mhr	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$2,55 \$322 \$2,982 \$1,639 \$4,675 \$1,922 \$3,704 \$1,019
R/T L L L E E E E L L L E E	1.000  Code Ip sts Ifm Iab flag c45-Io4+ hc40 I914 cp12 g10 comp Ip6 p205 wtp Ifm Iab c100+ mw ml30 we4	status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1) Man-Lift 30' articulated boom Welder 400A, trailer E	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew  00W ad	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	Factor  3 2	Material \$1,170  day/week  Resource Unit Company	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 30.00 mhr Other ST pay O hr Other ST pay O mhr Other St pay O mhr Other ST pay O mhr O mhr O hr O hr O hr O hr O hr O mhr O hr O hr O hr O hr O hr	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$255 \$322 \$2,982 \$1,639 \$4,675 \$1,922 \$3,704 \$1,019 \$3,176
R/T L L L E E E E L L L E E E E	1.000  Code Ip sts Ifm Iab flag c45-Io4+ hc40 I914 cp12 g10 comp Ip6 p205 wtp Ifm Iab c100+ mw ml30 we4 cssj	status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1) Man-Lift 30' articulated boom Welder 400A, trailer E Cutting shield steering jacks	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew  00W ad	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	Factor  3 2 2	Material \$1,170  day/week  Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$86.76 /hr \$77.25 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr \$10.73 /hr \$99.42 /hr \$51.94 /mh \$64.06 /mh \$61.73 /mh \$64.06 /mh \$61.73 /mh \$64.06 /mh \$64.06 /mh \$61.73 /mh \$64.06 /mh \$61.73 /mh \$64.06 /mh \$64.06 /mh \$64.06 /mh \$64.06 /mh	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 30.00 mhr Other St pay Other ST p	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$2,55 \$322 \$2,982 \$1,639 \$4,675 \$1,922 \$3,704 \$1,019 \$3,176 \$19,390
R/T L M L L E E E E L L L E E E E E E E E E	1.000  Code Ip sts Ifm Iab flag c45-Io4+ hc40 I914 cp12 g10 comp Ip6 p205 wtp Ifm Iab c100+ mw ml30 we4 cssj	status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1) Man-Lift 30' articulated boom Welder 400A, trailer E	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew  00W ad	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	Factor  3 2 2	Material \$1,170  day/week  Resource Unit Company	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 30.00 mhr Other ST pay O hr Other ST pay O mhr Other St pay O mhr Other ST pay O mhr O mhr O hr O hr O hr O hr O hr O mhr O hr O hr O hr O hr O hr	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$255 \$322 \$2,982 \$1,639 \$4,675 \$1,922 \$3,704 \$1,019 \$3,176
R/T L M L L L E E E E L L L E E E E E E E E	1.000  Code Ip sts Ifm Iab flag c45-Io4+ hc40 I914 cp12 g10 comp Ip6 p205 wtp Ifm Iab c100+ mw ml30 we4 cssj	status (Additive) Schedule factor (Normal) Install shield & steering jacks Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Water Treatment Plant  Labor FM General Labor (Grp 1) Crane oper. >100t (Grp 11) HD Mech/Welder (Grp 1) Man-Lift 30' articulated boom Welder 400A, trailer E Cutting shield steering jacks	\$23,637  10 hr/shift  Resource Qty/Unit  Support Crew  00W ad	Equipment \$178,462 Work schedule 1 shift/day 3 days Production rate	Factor  3 2 2	Material \$1,170  day/week  Resource Unit Co 5.241% \$3.00 /mh \$54.65 /mh \$51.94 /mh \$64.06 /mh \$64.06 /mh \$86.76 /hr \$77.25 /hr \$77.25 /hr \$5.37 /hr \$64.06 /mh \$8.51 /hr \$10.73 /hr \$99.42 /hr \$51.94 /mh \$64.06 /mh \$61.73 /mh \$64.06 /mh \$61.73 /mh \$64.06 /mh \$64.06 /mh \$61.73 /mh \$64.06 /mh \$61.73 /mh \$64.06 /mh \$64.06 /mh \$64.06 /mh \$64.06 /mh	3 days Subcontract \$0 Other ST pay O hr/shift Other ST pay O hr 30.00 mhr Other St pay Other ST p	Resource Cost \$1,177 \$1,170 \$1,639 \$1,558 \$1,558 \$1,922 \$2,603 \$977 \$2,318 \$161 \$1,922 \$2,55 \$322 \$2,982 \$1,639 \$4,675 \$1,922 \$3,704 \$1,019 \$3,176 \$19,390



		scription mfort Road - Install Jacking manhours	Labor	Item Quantity/Unit  1 LS  Equipment	Prod	uction rate Material	Oth	er fixed time 3 days Subcontract		Total time work days Item Cost
		450	\$28,791	\$178,973		\$12,050		\$0		\$219,814
	1.000	Status (Additive) Schedule factor (Normal)	10 hr/shift	Work schedule 1 shift/day	5	day/week		other ST pay O hr/shift		her OT pay hr/shift
)/T	Cada	Assemble & setup jacking sys		3 days	Footor	December 11	it Coot	December Out	antitu.	Bassuras Cas
R/T	Code	Resource Description  Labor premium	Resource Qty/Unit	Production rate	Factor	Resource Ur 5.241%	iii Cost	Resource Qua \$27,		Resource Cos \$1,434
<u>-</u> И	lp sts	Small tools and supplies				\$3.00	/mhr	, عدر 450.0 m		\$1,432 \$1,350
			Support Crew							
-	lfm	Labor FM				\$54.65		30.00 m		\$1,639
-	lab	General Labor (Grp 1)			2	\$51.94		60.00 m		\$3,116
•	flag	Flagman (Grp 1)				\$51.94		30.00 m		\$1,558
•	c45-	Crane oper. <45t (Grp 9)				\$64.06		30.00 m		\$1,922
-	lo4+	Loader oper. >4cy (Grp 10)				\$64.06		30.00 m		\$1,922
=	hc40	Hydraulic Crane 40ton/105'				\$86.76		30.00 h		\$2,603
	1914	Wheel Loader Cat 914/1.7cy				\$32.56		30.00 h		\$977
	cp12	Compressor, trailer 1200cfm				\$77.25		30.00 h		\$2,318
•	g10	Generator, trailer 10.0kW				\$5.37		30.00 h		\$161
		Compressorman (Grp 5)	20014		_	\$64.06		30.00 m		\$1,922
	lp6	Light Plant/Genset, 6kW, 4/10			3	\$8.51		90.00 h		\$766
		Pump, trash 205gpm/100ft he	ad			\$10.73		30.00 h		\$322
Ξ	wtp	Water Treatment Plant	Jacking System Ci	rew/		\$99.42	/hr	30.00 h	r	\$2,982
_	lfm	Labor FM	ouciang cycloni ci	···		\$54.65	/mhr	30.00 m	nhr	\$1,639
	lab	General Labor (Grp 1)			3	\$51.94	/mhr	90.00 m	nhr	\$4,675
	c100+	Crane oper. >100t (Grp 11)				\$64.06	/mhr	30.00 m	nhr	\$1,922
_	mw	HD Mech/Welder (Grp 1)			2	\$61.73	/mhr	60.00 m	nhr	\$3,704
	ejm	Electrician JM				\$111	/mhr	30.00 m	nhr	\$3,339
Ξ	ml30	Man-Lift 30' articulated boom			2	\$16.98	/hr	60.00 h	r	\$1,019
	we4	Welder 400A, trailer E			200%	\$52.93	/hr	60.00 h	r	\$3,176
	cssi	Cutting shield steering jacks				\$646	/hr	30.00 h	r	\$19,390
	COOJ							00.00 11		
<u> </u>	tc150	Truck Crane 150ton/260'	40.00.1			\$4,842		30.00 h		\$145,260
Ξ Ξ Μ	tc150	Truck Crane 150ton/260' Miscellaneous material	10.00 lot			•				\$145,260 \$10,700
≣ ≡ M M	tc150 xmisc	Miscellaneous material scription		Item Quantity/Unit	Prod	\$4,842	/lot Oth	30.00 h 10.00 lo	ot	\$145,260 \$10,700
≣ ∃ √I √I	tc150 xmisc	Miscellaneous material scription mfort Road - Excavate SB Co	ulvert #1	56 ft	Prod	\$4,842 \$1,070 uction rate	/lot Oth	30.00 h 10.00 lo er fixed time 2 days	ot	\$145,260 \$10,700 Total time work days
∃ ./I Io.	tc150 xmisc	Miscellaneous material scription mfort Road - Excavate SB Co	ulvert #1	<b>56 ft</b> Equipment	Prod	\$4,842 \$1,070 uction rate Material	/lot Oth	30.00 h 10.00 lo	ot	\$145,260 \$10,700 Total time work days Item Cos
// // lo.	tc150 xmisc	Miscellaneous material scription mfort Road - Excavate SB Co	ulvert #1 Labor \$354,780	56 ft Equipment \$473,434	Prod	\$4,842 \$1,070 uction rate	/lot Oth	30.00 h 10.00 ld er fixed time 2 days Subcontract	ot	\$145,260 \$10,700 Total time work days Item Cos \$969,049
.∕∕I lo.	tc150 xmisc	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429	ulvert #1 Labor \$354,780	<b>56 ft</b> Equipment	Prod	\$4,842 \$1,070 uction rate Material \$25,388	/lot Oth 1	30.00 h 10.00 lot er fixed time 12 days Subcontract \$115,448 \$2,061.56	12	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45
Ξ Ξ √I No.	tc150 xmisc Item De Mt Co	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896	ulvert #1 Labor \$354,780	<b>56 ft</b> Equipment <b>\$473,434</b> \$8,454.18		\$4,842 \$1,070 uction rate Material \$25,388	/lot Oth 1	30.00 h 10.00 lo er fixed time 12 days Subcontract \$115,448	12 Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,049
≣ ∃ √I √I	tc150 xmisc Item De Mt Co	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive)	Labor \$354,780 \$6,335.35 8 hr/shift	56 ft		\$4,842 \$1,070 uction rate Material \$25,388 \$453.36	/lot Oth 1	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay	12 Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45
∃ ./I Io.	tc150 xmisc Item De Mt Co	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal)	Labor <b>\$354,780</b> \$6,335.35	56 ft Equipment \$473,434 \$8,454.18 Work schedule 3 shift/day	7 (	\$4,842 \$1,070 uction rate Material \$25,388 \$453.36	/lot Oth 1	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay	12 Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45
io. <b>032</b>	tc150 xmisc Item De Mt Co	Miscellaneous material scription mfort Road - Excavate SB Ci manhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy	56 ft	7 (	\$4,842 \$1,070 uction rate Material \$25,388 \$453.36 day/week days Resource Ur	Ottr 1	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift	12 Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift
io. 032	tc150 xmisc Item De Mt Co	Miscellaneous material scription mfort Road - Excavate SB Ci manhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft	56 ft	7 (	\$4,842 \$1,070 uction rate Material \$25,388 \$453.36 day/week days Resource Ur 18.183%	/lot Oth 1	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300,	Ott Otto	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift
io. 032	tc150 xmisc Item De Mt Co	Miscellaneous material scription mfort Road - Excavate SB Ci manhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 (	\$4,842 \$1,070 uction rate Material \$25,388 \$453.36 day/week days Resource Ur	/lot Oth 1	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift	Ott Otto	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift
To. 032	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts	Miscellaneous material scription mfort Road - Excavate SB Ci manhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft	56 ft	7 (	\$4,842 \$1,070 uction rate Material \$25,388 \$453.36 day/week days Resource Ur 18.183% \$3.00	/lot Oth 1 CO Oth Mit Cost	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m	Ott 0 antity ,195	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688
E E M Io. <b>032</b>	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts	Miscellaneous material scription mfort Road - Excavate SB Ci manhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies Labor FM	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate Material \$25,388 \$453.36 day/week days Resource Ur 18.183% \$3.00 \$54.65	/lot Oth 1 CO Oth thit Cost /mhr	30.00 h 10.00 lot  er fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m	Ott Ott 195 nhr	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts  Ifm lab	Miscellaneous material scription mfort Road - Excavate SB Ci manhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1)	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 (	\$4,842 \$1,070 uction rate Material \$25,388 \$453.36 day/week days Resource Ur 18.183% \$3.00 \$54.65 \$51.94	/lot Ottr 1  CO Ottr 1  /mit Cost /mhr /mhr	30.00 h 10.00 lot  er fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 576.0 m	Ott  Ott  Ott  Ott  Ohhr  hhr	\$145,260 \$10,700 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918
E E Io. D32	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts  Ifm lab flag	Miscellaneous material  scription mfort Road - Excavate SB Ci manhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1)	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate Material \$25,388 \$453.36 day/week days Resource Ur 18.183% \$3.00 \$54.65 \$51.94 \$51.94	/lot Ottr 1  CO Ottr 1  CO Ottr /mit Cost /mhr /mhr /mhr	30.00 h 10.00 lot  ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 576.0 m 288.0 m	Ott  Ott  Ott  0  Annual of the content of the cont	\$145,260 \$10,700 Total time work days Item Cos \$969,048 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,958
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De  Mt Co  1.000  Code Ip sts Ifm lab flag c45-	Miscellaneous material  scription mfort Road - Excavate SB Ci manhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9)	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur 18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06	/lot Ottr 1  CO O mit Cost /mhr /mhr /mhr /mhr	30.00 h 10.00 lot  ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 576.0 m 288.0 m 288.0 m	Ott  Ott  0  12  Ott  195  hhr  hhr  hhr  hhr	\$145,260 \$10,700 Total time work days Item Cos \$969,048 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,955 \$18,448
E E M M O O O O O O O O O O O O O	tc150 xmisc  Item De  Mt Co  1.000  Code Ip sts Ifm lab flag c45-lo4+	Miscellaneous material  scription mfort Road - Excavate SB Ci manhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10)	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur  18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06	/lot Oth 1  CO O  mit Cost /mhr /mhr /mhr /mhr /mhr /mhr	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 576.0 m 288.0 m 288.0 m 288.0 m	Ott  Ott  0  195  hhr  hhr  hhr  hhr	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,686 \$15,738 \$29,918 \$14,959 \$18,448 \$18,448
E E I I I I I I I I I I I	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts  Ifm lab flag c45-lo4+ ejm	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur 18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$111	/lot Oth 1  CO O  mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /mhr	30.00 h 10.00 lot  er fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 288.0 m 288.0 m 288.0 m 288.0 m	Ott  Ott  Ott  Ott  Oth  hhr  hhr  hhr	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,959 \$18,448 \$18,448 \$32,051
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts  Ifm lab flag c45-lo4+ ejm hc40	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105'	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur 18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$111 \$86.76	/lot Oth 1  CO O  mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /mhr /mhr	30.00 h 10.00 lot  er fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m	Ott  Ott  Ott  Ott  Other  Oth	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,959 \$18,448 \$32,051 \$24,987
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts  Ifm lab flag c45-lo4+ ejm hc40 l914	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur 18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56	/lot Oth 1  CO O mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /mhr /mhr	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m	Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,045 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,959 \$18,448 \$32,051 \$24,987 \$9,377
io. 032	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts  Ifm lab flag c45-lo4+ ejm hc40 l914 cp12	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur  18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56 \$77.25	/lot Oth 1  Oth	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 288.0 m 288.0 m 288.0 m 288.0 m 288.0 h 288.0 h	Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,045 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,955 \$18,448 \$32,051 \$24,987 \$9,377 \$22,245
R/T	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur  18.183% \$3.00  \$54.65 \$51.94 \$54.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56 \$77.25 \$5.37	/lot Oth 1  Oth	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 288.0 m 288.0 m 288.0 m 288.0 m 288.0 h 288.0 h 288.0 h	Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,045 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,955 \$18,448 \$32,05 \$24,987 \$9,377 \$22,245 \$1,546
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5)	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur  18.183% \$3.00  \$54.65 \$51.94 \$54.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06	/lot Oth 1  Oth	30.00 h 10.00 lot  er fixed time 12 days Subcontract \$115,448 \$2,061.56 Dither ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 288.0 m 288.0 m 288.0 m 288.0 h 288.0 h 288.0 h 288.0 h	Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,959 \$18,448 \$32,051 \$24,987 \$9,377 \$22,249 \$1,546 \$18,448
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit Support Crew	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur  18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51	/lot Oth 1  Oth	30.00 h 10.00 lot  er fixed time 12 days Subcontract \$115,448 \$2,061.56 Dither ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 288.0 m 288.0 m 288.0 m 288.0 h 288.0 h 288.0 h 288.0 h 288.0 h 288.0 h 288.0 m 864.0 h	Ott 0 12 Ott 0 195 hhr hhr hhr hhr r r r	\$145,260 \$10,700 Total time work days Item Cos \$969,045 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,958 \$18,448 \$32,051 \$24,987 \$9,377 \$22,249 \$1,546 \$18,448 \$7,351
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6 p205	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. >45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit Support Crew	56 ft	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36  day/week  days  Resource Ur 18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73	/lot Oth 1  CO O mit Cost /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr	30.00 h 10.00 lot  ter fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 288.0 m 288.0 m 288.0 m 288.0 h	Ott 0 12 Ott 0 195 hhr hhr hhr hhr r r r r	\$145,260 \$10,700 Total time work days Item Cos \$969,045 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,950 \$18,448 \$18,448 \$32,051 \$24,987 \$9,377 \$22,249 \$1,546 \$18,448 \$7,351 \$3,090
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6 p205	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit Support Crew	Equipment \$473,434 \$8,454.18 Work schedule 3 shift/day 171 cy/day 5 ft/day Production rate	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur  18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51	/lot Oth 1  CO O mit Cost /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr	30.00 h 10.00 lot  er fixed time 12 days Subcontract \$115,448 \$2,061.56 Dither ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 288.0 m 288.0 m 288.0 m 288.0 h 288.0 h 288.0 h 288.0 h 288.0 h 288.0 h 288.0 m 864.0 h	Ott 0 12 Ott 0 195 hhr hhr hhr hhr r r r r	\$145,260 \$10,700 Total time work days Item Cos \$969,045 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,950 \$18,448 \$18,448 \$32,051 \$24,987 \$9,377 \$22,249 \$1,546 \$18,448 \$7,351 \$3,090
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6 p205	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. >45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit Support Crew	Equipment \$473,434 \$8,454.18 Work schedule 3 shift/day 171 cy/day 5 ft/day Production rate	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36  day/week  days  Resource Ur 18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73	/lot Ott 1  Ott	30.00 h 10.00 lot  ter fixed time 12 days Subcontract \$115,448 \$2,061.56 Other ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 m 288.0 m 288.0 m 288.0 m 288.0 h	Ott 0 antity 195 hhr hhr hhr r r r r r	\$145,260 \$10,700 Total time work days Item Cos \$969,045 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,958 \$18,448 \$32,051 \$24,987 \$9,377 \$22,249 \$1,546 \$18,448 \$7,351 \$3,090 \$115,448
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6 p205 muck	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Muck disposal	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit Support Crew	Equipment \$473,434 \$8,454.18 Work schedule 3 shift/day 171 cy/day 5 ft/day Production rate	7 ( 12 ( Factor	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36  day/week  days  Resource Ur 18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$35.00	/lot Ott 1  Ott	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Dither ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 h 288.0 h 288.0 h 289.0 h	Ott  Ott  Ott  Ott  Ott  Ott  Ott  Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,959 \$18,448 \$32,051 \$24,987 \$9,377 \$22,249 \$1,546 \$18,448 \$7,351 \$3,090 \$115,448
E E E E E E E E E E E E E E E E E E E	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6 p205 muck Ifm	Miscellaneous material scription mfort Road - Excavate SB Commanhours 4,896 87.429 Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Muck disposal Labor FM	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit Support Crew	Equipment \$473,434 \$8,454.18 Work schedule 3 shift/day 171 cy/day 5 ft/day Production rate	7 (12 (Factor)	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36 day/week  days  Resource Ur 18.183% \$3.00  \$54.65 \$51.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$35.00  \$54.65 \$51.94	/lot Ott 1  Ott	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Dither ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 h 288.0 h 288.0 h 288.0 h 288.0 h 288.0 h 288.0 m 288.0 m	Ott  Ott  Ott  Ott  Ott  Ott  Ott  Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45 her OT pay hr/shift Resource Cos \$54,585 \$14,688 \$15,738 \$29,918 \$14,959 \$18,448 \$32,051 \$24,987 \$9,377 \$22,249 \$1,546 \$18,448 \$7,351 \$3,090 \$115,448
≣ ≡ M M	tc150 xmisc  Item De Mt Co  1.000  Code Ip sts Ifm lab flag c45-lo4+ ejm hc40 l914 cp12 g10 comp lp6 p205 muck Ifm lab	Miscellaneous material  scription  mfort Road - Excavate SB Commanhours 4,896 87.429  Status (Additive) Schedule factor (Normal) Excavate culvert Jack culvert Resource Description Labor premium Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Electrician JM Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Pump, trash 205gpm/100ft he Muck disposal  Labor FM General Labor (Grp 1)	Labor \$354,780 \$6,335.35 8 hr/shift 2199 cy 56 ft Resource Qty/Unit Support Crew	Equipment \$473,434 \$8,454.18 Work schedule 3 shift/day 171 cy/day 5 ft/day Production rate	7 (12 (Factor)	\$4,842 \$1,070 uction rate  Material \$25,388 \$453.36  day/week  days  Resource Ur  18.183% \$3.00  \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$111 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$10.73 \$35.00	/lot Ott 1  Ott	30.00 h 10.00 lot ler fixed time 12 days Subcontract \$115,448 \$2,061.56 Dither ST pay .5 hr/shift  Resource Qua \$300, 4896 m 288.0 h 288.0 m 864.0 h 3299 lot 288.0 m 864.0 m	Ott  Ott  Ott  Ott  Ott  Ott  Ott  Ott	\$145,260 \$10,700 Total time work days Item Cos \$969,049 \$17,304.45



L	mw	HD Mech/Welder (Grp 1)				\$61.73 /m	hr 288.0 ml	
Ε	he320	320 Excavator 43.8k/1.5cy				\$188 /hr	288.0 hr	\$54,236
Ε	1914	Wheel Loader Cat 914/1.7cy				\$32.56 /hr	288.0 hr	\$9,377
Ε	cssj	Cutting shield steering jacks				\$646 /hr	288.0 hr	\$186,139
Ε	tjack	Thrust jack & frame				\$439 /hr		\$126,450
М	xmisc	Miscellaneous material	10.00 lot			\$1,070 /lo	t 10.00 lot	\$10,700
Ε	wtp	Water Treatment Plant				\$99.42 /hr	288.0 hr	\$28,632
No.		escription		Item Quantity/Unit	Produ	iction rate	Other fixed time	Total time
033	MtCo	omfort Road - Position SB Cul		1 LS			2 days	2 work days
		manhours	Labor	Equipment		Material	Subcontract	Item Cost
		672	\$43,240	\$68,304		\$7,366	\$0	\$118,910
	4 000	Status (Additive)	0  /- -:#	Work schedule		J/	Other ST pay	Other OT pay
-	1.000	Schedule factor (Normal)	8 hr/shift	3 shift/day	5 (	day/week	0.5 hr/shift	0 hr/shift
D/T	0 1	Position & prepare culvert for		2 days		D 11.76		5
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Unit C		
L	lp oto	Labor premium				6.250%	\$40,6	
M	sts	Small tools and supplies	Support Crew			\$3.00 /m	hr 672.0 ml	nr \$2,016
	Ifma		Support Crew			¢E4.6E /m	hr 10.00 ml	to coo
L	lfm lab	Labor FM General Labor (Grp 1)			2	\$54.65 /m \$51.94 /m		
	_	` ' '			2	\$51.94 /m		
L	flag	Flagman (Grp 1)				\$64.06 /m		
L	c45-	Crane oper. <45t (Grp 9)						
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06 /m		, -,
L	ejm	Electrician JM				\$111 /m		
E	hc40	Hydraulic Crane 40ton/105'				\$86.76 /hr		\$4,165 \$4,563
E	1914	Wheel Loader Cat 914/1.7cy				\$32.56 /hr		\$1,563
E	•	Compressor, trailer 1200cfm				\$77.25 /hr		\$3,708
E	g10	Generator, trailer 10.0kW				\$5.37 /hr		\$258
L E		Compressorman (Grp 5)	00147		2	\$64.06 /m		
	lp6	Light Plant/Genset, 6kW, 4/10			3	\$8.51 /hr		\$1,225
E E	•	Pump, trash 205gpm/100ft hea	au			\$10.73 /hr		\$515 \$4.770
⊏	wtp	Water Treatment Plant	Culvert Crew			\$99.42 /hr	48.00 hr	\$4,772
	lfm	Labor FM	Cuivert Crew			\$54.65 /m	hr 48.00 ml	nr \$2,623
L					2	\$54.05 /m		
L L	lab	General Labor (Grp 1)			3 2	\$51.94 /m		, , -
E	mw	HD Mech/Welder (Grp 1)			2	\$646 /hr		
E	cssj	Cutting shield steering jacks Thrust jack & frame				\$439 /hr		\$31,023 \$21,075
M	tjack	Miscellaneous material	5.00 lot			\$439 /III \$1,070 /lo		
IVI	XIIIISC	Miscellaneous material	3.00 101			\$1,070 /10	3.00 101	φ5,550
No.	Item De	escription		Item Quantity/Unit	Produ	iction rate	Other fixed time	Total time
		omfort Road - Excavate SB Cu	ılvert #2	56 ft		.ouoato	12 days	12 work days
		manhours	Labor	Equipment		Material	Subcontract	Item Cost
		4,896	\$354,780	\$473,434		\$25,388	\$115,448	\$969,049
		87.429	\$6,335.35	\$8,454.18		\$453.36	\$2,061.56	\$17,304.45
		Status (Additive)	, -,	Work schedule		,	Other ST pay	Other OT pay
	1.000	Schedule factor (Normal)	8 hr/shift	3 shift/day	7 c	day/week	0.5 hr/shift	0 hr/shift
		Excavate culvert	2199 cy	171 cy/day		,		
		Jack culvert	56 ft	5 ft/day	12 c	days		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Unit C	ost Resource Quar	ntity Resource Cost
L	lp	Labor premium	•			18.183%	\$300,1	
М	sts	Small tools and supplies				\$3.00 /m	hr 4896 ml	nr \$14,688
			Support Crew					, ,
L	lfm	Labor FM	,,			\$54.65 /m	hr 288.0 ml	nr \$15,738
L	lab	General Labor (Grp 1)			2	\$51.94 /m		
L	flag	Flagman (Grp 1)				\$51.94 /m		
L	c45-	Crane oper. <45t (Grp 9)				\$64.06 /m		
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06 /m		
L	ejm	Electrician JM				\$111 /m		
Ε		Hydraulic Crane 40ton/105'				\$86.76 /hr		\$24,987
E	1914	Wheel Loader Cat 914/1.7cy				\$32.56 /hr		\$9,377
E		Compressor, trailer 1200cfm				\$77.25 /hr		\$22,249
Ε	g10	Generator, trailer 10.0kW				\$5.37 /hr		\$1,546
L	•	Compressorman (Grp 5)				\$64.06 /m		
Ε	lp6	Light Plant/Genset, 6kW, 4/10	00W		3	\$8.51 /hr		\$7,351
Ε	•	Pump, trash 205gpm/100ft hea				\$10.73 /hr		\$3,090
S		Muck disposal	3299 lcy			\$35.00 /lc		
			Excavation & Jack	ing Crew		•	,	•



Ļ	ITM	Labor FM			2	\$54.65		288.0 m		\$15,738
L	lab	General Labor (Grp 1)			3	\$51.94		864.0 m		\$44,876
L	ofm	Operating Engineer			_	\$64.06		288.0 m		\$18,448
L	eo3-	Excavator <3.5cy (Grp 5)			2	\$64.06		576.0 m		\$36,896
L	lo4-	Loader oper. <4cy (Grp 5)				\$64.06	/mhr	288.0 m	ıhr	\$18,448
L	mw	HD Mech/Welder (Grp 1)				\$61.73	/mhr	288.0 m	ıhr	\$17,778
Ε	he320	320 Excavator 43.8k/1.5cy				\$188	/hr	288.0 h	r	\$54,236
Ε	1914	Wheel Loader Cat 914/1.7cy				\$32.56	/hr	288.0 h	r	\$9,377
Ε	cssj	Cutting shield steering jacks				\$646	/hr	288.0 h	r	\$186,139
Ε	tjack	Thrust jack & frame				\$439	/hr	288.0 h	r	\$126,450
М	-	Miscellaneous material	10.00 lot			\$1,070	/lot	10.00 lo	t	\$10,700
E	wtp	Water Treatment Plant				\$99.42		288.0 h		\$28,632
_						Ψ00		200.0		<b>420,002</b>
No.	Item De	escription		Item Quantity/Unit	Produ	uction rate	Oth	er fixed time		Total time
		mfort Road - Remove Jacks	& Shield	1 LS				5 days		work days
		manhours	Labor	Equipment		Material		Subcontract		Item Cost
		850	\$57,326	\$270,025		\$2,550		\$0		\$329,901
		Status (Additive)	<b>401,020</b>	Work schedule		ΨΞ,000	0	ther ST pay	Otl	ner OT pay
	1 000	Schedule factor (Normal)	10 hr/shift	1 shift/day	5.0	day/week		5 hr/shift		hr/shift
	1.000	Remove jacks & shields	5 days	1 Sillivaay		uay/wcck	0.	J 111/311111		TII/STIIIC
Б/Т	0 1	•		D 1 "				Б 0		D 0 1
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Ur	nit Cost	Resource Qua		Resource Cost
L	lp	Labor premium				10.241%	, .	<b>\$52</b> ,		\$5,326
M	sts	Small tools and supplies				\$3.00	/mhr	850.0 m	ıhr	\$2,550
			Support Crew							
L	lfm	Labor FM				\$54.65		50.00 m		\$2,732
L	lab	General Labor (Grp 1)			2	\$51.94	/mhr	100.0 m	ıhr	\$5,194
L	flag	Flagman (Grp 1)				\$51.94	/mhr	50.00 m	ıhr	\$2,597
L	c45-	Crane oper. <45t (Grp 9)				\$64.06	/mhr	50.00 m	ıhr	\$3,203
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06	/mhr	50.00 m	hr	\$3,203
L	ejm	Electrician JM				\$111	/mhr	50.00 m	hr	\$5,564
Ε	hc40	Hydraulic Crane 40ton/105'				\$86.76	/hr	50.00 h	r	\$4,338
Ε	1914	Wheel Loader Cat 914/1.7cy				\$32.56		50.00 h	r	\$1,628
E		Compressor, trailer 1200cfm				\$77.25		50.00 h		\$3,863
Ē	g10	Generator, trailer 10.0kW				\$5.37		50.00 h		\$268
Ĺ	•	Compressorman (Grp 5)				\$64.06		50.00 m		\$3,203
		,	0014/		2					
E	lp6	Light Plant/Genset, 6kW, 4/10			3	\$8.51		150.0 h		\$1,276
E	•	Pump, trash 205gpm/100ft he	ad			\$10.73		50.00 h		\$536
Е	wtp	Water Treatment Plant	D			\$99.42	/nr	50.00 h	r	\$4,971
	16	Labar EM	Removal Crew			<b>#</b> 54.05		50.00	L	<b>#0.700</b>
L	lfm	Labor FM			_	\$54.65		50.00 m		\$2,732
L	lab	General Labor (Grp 1)			3	\$51.94		150.0 m		\$7,791
L	mw	HD Mech/Welder (Grp 1)			2	\$61.73		100.0 m	ıhr	\$6,173
L		Crane oper. >100t (Grp 11)				\$64.06		50.00 m		\$3,203
L	eo3-	Excavator <3.5cy (Grp 5)				\$64.06	/mhr	50.00 m	ıhr	\$3,203
L	lo4-	Loader oper. <4cy (Grp 5)				\$64.06	/mhr	50.00 m	hr	\$3,203
Ε	he320	320 Excavator 43.8k/1.5cy				\$188	/hr	50.00 h	r	\$9,416
Ε	1914	Wheel Loader Cat 914/1.7cy				\$32.56	/hr	50.00 h	r	\$1,628
Ε	tc150	Truck Crane 150ton/260'				\$4,842	/hr	50.00 h	r	\$242,101
No.	Item De	escription		Item Quantity/Unit	Produ	uction rate	Oth	er fixed time		Total time
036	Mt Co	mfort Road - Excavate & Sup	port SB Wall 2	1 LS			5	7 days	57	work days
		manhours	Labor	Equipment		Material		Subcontract		Item Cost
		7,032	\$399,116	\$249,590		\$94,419		\$422,793		\$1,165,918
		Status (Additive)	, ,	Work schedule		. ,	0	ther ST pay	Otl	ner OT pay
	1 000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5 (	day/week		0 hr/shift		hr/shift
		Soil nail & shotcrete installatio				crews		0 1117011111		,
		Excavation per level		2684 bcy	_	cy/day		6 days		
		Install soil nails per level		77 ea		ea/day		0 days	2	crews
		Shotcrete per level				•		•		CIEWS
		•		40 cy	2 (	cy/hr		3 days		
		Number of levels		3 ea			_	<b>-</b> .		
		Total duration						7 days		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Ur		Resource Qua		Resource Cost
M	sts	Small tools and supplies	_			\$3.00	/mhr	7032 m	hr	\$21,096
			Support Crew							
L	lfm	Labor FM				\$54.65	/mhr	456.0 m	hr	\$24,919
L	lab	General Labor (Grp 1)			2	\$51.94	/mhr	912.0 m	ıhr	\$47,370
L	flag	Flagman (Grp 1)				\$51.94	/mhr	456.0 m	hr	\$23,685
L	c45-	Crane oper. <45t (Grp 9)			2	\$64.06		912.0 m	hr	\$58,419
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06		456.0 m		\$29,209

\$54.65 /mhr

288.0 mhr

\$15,738



Ifm Labor FM

Ε	hc40	Hydraulic Crane 40ton/105'			2	\$86.76		912.0 hr	\$79,126
Ε	1914	Wheel Loader Cat 914/1.7cy				\$32.56	/hr	456.0 hr	\$14,847
Ε	cp12	Compressor, trailer 1200cfm				\$77.25	/hr	456.0 hr	\$35,227
Ε	g10	Generator, trailer 10.0kW				\$5.37	/hr	456.0 hr	
L	comp	Compressorman (Grp 5)				\$64.06	/mhr	456.0 ml	nr \$29,209
Ε	lp6	Light Plant/Genset, 6kW, 4/1	W000		3	\$8.51	/hr	1368 hr	\$11,639
S	muck	Muck disposal	12080 lcy			\$35.00	/lcy	12080 lcy	\$422,793
		·	Soil Nail Crew				-	•	
L	lfm	Labor FM				\$54.65	/mhr	456.0 ml	nr \$24,919
L	lab	General Labor (Grp 1)	30.00 day	8.00 mhr/day	6	\$51.94	/mhr	1440 ml	nr \$74,794
L	drill	Drill operator (Grp 6)	30.00 day	8.00 mhr/day	2	\$64.06	/mhr	480.0 ml	
Ε	at	Air track 12' feed	,	,	2	\$36.95		912.0 hr	
E	ml30	Man-Lift 30' articulated boom			2	\$16.98		912.0 hr	
Ē	gp	Grout Plant, skid	30.00 day	8.00 hr/day	2	\$16.84		480.0 hr	* . *
М	sn	Soil nials	232.0 ea	0.00 m/day	_	\$219		232.0 ea	
M	CS	Cement - sack	232.0 ea			\$14.98		232.0 ea	
IVI	US	Cernerit - Sack	Excavation Crew			ψ14.90	/ca	232.0 Ga	ψ5,475
	lah	Canaral Labor (Crn 1)		0.00 mbr/day	2000/	¢E4.04	/malar	200 0	on \$14.0E0
L	lab	General Labor (Grp 1)	18.00 day	8.00 mhr/day	200%	\$51.94		288.0 ml	
L		Excavator >3.5cy (Grp 8)	18.00 day	8.00 mhr/day	2	\$64.06		288.0 ml	
Е	he330	SK330LC Exc 77.8/2.1cy	18.00 day	8.00 hr/day	2	\$151	/hr	288.0 hr	\$43,496
			Shotcrete Crew						
L	lab	General Labor (Grp 1)	9.00 day	8.00 mhr/day	6	\$51.94	/mhr	432.0 ml	, ,
Е	sp2	Shotcrete pot Aliva, 2cy/hr	9.00 day	8.00 hr/day	2	\$38.48	/hr	144.0 hr	\$5,541
M	shcrt	Shotcrete	119.0 cy			\$160	/cy	119.0 cy	\$19,040
			•				•		
No.	Item De	escription		Item Quantity/Unit	Produ	iction rate	Oth	er fixed time	Total time
037	Mt Co	mfort Road - Excavate & Su	pport SB Wall 1	1 LS			2	24 days	24 work days
		manhour	s Labor	Equipment		Material		Subcontract	Item Cost
		2,928		\$107,868		\$39,086		\$180,747	\$494,197
		Status (Additive)	. ,	Work schedule			C	Other ST pay	Other OT pay
	1.000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5 0	lay/week		0 hr/shift	0 hr/shift
-		Soil nail & shotcrete installation		•		rews			
		Excavation per level	on two oromo NB (	1148 bcy	500 c			3 days	
		Install soil nails per level		32 ea		ea/day		4 days	2 crews
		Shotcrete per level		16 cy		cy/hr			Z GIGW3
		Shorrere her level		10 Cy	2 (	<i>y</i> y/111		1 days	
		Number of levels		2 00		-		-	
		Number of levels		3 ea			,	14. daya	
D/T	0-4-	Total duration	December Ohill Init		F4	D		24 days	Aide December Cont.
R/T	Code	Total duration Resource Description	Resource Qty/Unit	3 ea	Factor	Resource U	nit Cost	Resource Quar	
R/T M	Code sts	Total duration	•		Factor	Resource U	nit Cost	•	
M	sts	Total duration Resource Description Small tools and supplies	Resource Qty/Unit Support Crew		Factor	\$3.00	nit Cost /mhr	Resource Quar 2928 ml	s8,784
M L	sts	Total duration Resource Description Small tools and supplies Labor FM	•			\$3.00 \$54.65	mit Cost /mhr /mhr	Resource Quar 2928 ml 192.0 ml	nr \$8,784 nr \$10,492
M L L	sts Ifm lab	Total duration Resource Description Small tools and supplies Labor FM General Labor (Grp 1)	•		Factor 2	\$3.00 \$54.65 \$51.94	/mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml	nr \$8,784 nr \$10,492 nr \$19,945
M L L L	sts Ifm lab flag	Total duration Resource Description Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1)	•		2	\$3.00 \$54.65 \$51.94 \$51.94	/mhr /mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml	nr \$8,784 nr \$10,492 nr \$19,945 nr \$9,973
M L L L	sts Ifm lab	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9)	•			\$3.00 \$54.65 \$51.94 \$51.94 \$64.06	/mhr /mhr /mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml	nr \$8,784 nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597
M L L L	sts Ifm lab flag	Total duration Resource Description Small tools and supplies Labor FM General Labor (Grp 1) Flagman (Grp 1)	•		2	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06	/mhr /mhr /mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml	nr \$8,784 nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597
M L L L	sts  Ifm lab flag c45-	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9)	•		2	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06	/mhr /mhr /mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml	nr \$8,784 nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316
M L L L	sts  Ifm lab flag c45- lo4+	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10)	•		2	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06	/mhr /mhr /mhr /mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml	\$8,784 or \$10,492 or \$19,945 or \$9,973 or \$24,597 or \$12,299 \$33,316
M L L L L	sts  Ifm lab flag c45- lo4+ hc40 l914	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105'	•		2	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76	/mhr /mhr /mhr /mhr /mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr	nr \$8,784 nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251
M L L L L E	sts  Ifm lab flag c45- lo4+ hc40 l914	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy	•		2	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56	/mhr /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr	\$8,784 or \$10,492 or \$19,945 or \$9,973 or \$24,597 or \$12,299 \$33,316 \$6,251 \$14,833
M L L L L E E	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW	•		2	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37	/mhr /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr	nr \$8,784 nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031
M L L L E E E	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5)	Support Crew		2 2 2	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25	/mhr /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr	nr \$8,784 nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 nr \$12,299
M L L L E E E E L	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1	Support Crew		2	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51	/mhr /mhr /mhr /mhr /mhr /mhr /hhr /hr /hr /hr /hr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr	nr \$8,784 nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 nr \$12,299 \$4,901
M L L L E E E	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5)	Support Crew  000W 5164 lcy		2 2 2	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37	/mhr /mhr /mhr /mhr /mhr /mhr /hhr /hr /hr /hr /hr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr	\$8,784 or \$10,492 or \$19,945 or \$9,973 or \$24,597 or \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 or \$12,299 \$4,901
M L L L E E E E E S	sts  Ifm lab flag c45- lo4+ hc40 l914 cp12 g10 comp lp6 muck	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/14 Muck disposal	Support Crew		2 2 2	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00	/mhr /mhr /mhr /mhr /mhr /mhr /hhr /hr /hr /hr /hr /hr /hr /hr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy	\$8,784 ar \$10,492 ar \$19,945 ar \$9,973 ar \$24,597 ar \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 ar \$12,299 \$4,901 4 \$180,747
M L L L E E E E L E S L	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck Ifm	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/14 Muck disposal  Labor FM	Support Crew  000W 5164 lcy Soil Nail Crew	Production rate	2 2 2 3	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00	/mhr /mhr /mhr /mhr /mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy	\$8,784 or \$10,492 or \$19,945 or \$9,973 or \$24,597 or \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 or \$12,299 \$4,901 \$180,747
M L L L E E E E L E S L	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/14 Muck disposal  Labor FM General Labor (Grp 1)	Support Crew  000W 5164 lcy Soil Nail Crew 12.00 day	Production rate  8.00 mhr/day	2 2 2 3	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00	/mhr /mhr /mhr /mhr /mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy	\$8,784 or \$10,492 or \$19,945 or \$9,973 or \$24,597 or \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 or \$12,299 \$4,901 7 \$180,747
M L L L E E E E E L L L	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/11 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6)	Support Crew  000W 5164 lcy Soil Nail Crew	Production rate	2 2 2 2 3	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00	/mhr /mhr /mhr /mhr /mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy	\$8,784 or \$10,492 or \$19,945 or \$9,973 or \$24,597 or \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 or \$12,299 \$4,901 7 \$180,747
M LLLLEEEELES LLLE	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed	Support Crew  5000W 5164 lcy Soil Nail Crew 12.00 day 12.00 day	Production rate  8.00 mhr/day	2 2 2 3	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$51.94 \$64.06 \$36.95	/mhr /mhr /mhr /mhr /mhr /mhr /mhr /mhr	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 576.0 ml 192.0 ml	\$8,784 or \$10,492 or \$19,945 or \$9,973 or \$24,597 or \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 or \$12,299 \$4,901 7 \$180,747 or \$10,492 or \$29,918 or \$29,918 or \$12,299 \$14,187
M LLLLLEEEELES LLLEE	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at ml30	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/11 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day	8.00 mhr/day 8.00 mhr/day	2 2 2 3	\$3.00 \$54.65 \$51.94 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$51.94 \$64.06 \$36.95 \$16.98	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 576.0 ml 192.0 ml	\$8,784 or \$10,492 or \$19,945 or \$9,973 or \$24,597 or \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 or \$12,299 \$4,901 or \$180,747 or \$10,492 or \$29,918 or \$29,918 or \$29,918 or \$12,299 \$14,187 \$6,522
M LLLLLEEEELES LLLEEE	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at ml30 gp	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 1200cfm Generator, trailer 150.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/11 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day	Production rate  8.00 mhr/day	2 2 2 3	\$3.00 \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$16.98 \$16.98	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 576.0 ml 192.0 ml	nr \$8,784  nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 nr \$12,299 \$4,901 7 \$180,747 nr \$10,492 nr \$29,918 nr \$12,299 \$14,187 \$6,522 \$3,233
M LLLLEEEELES LLLEEEM	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at mI30 gp sn	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid Soil nials	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day 96.00 ea	8.00 mhr/day 8.00 mhr/day	2 2 2 3	\$3.00 \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /mhr /m	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 576.0 ml 192.0 ml 384.0 hr 192.0 ml	s8,784  nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 nr \$12,299 \$4,901 7 \$180,747 nr \$10,492 nr \$29,918 nr \$12,299 \$14,187 \$6,522 \$3,233 \$21,024
M LLLLLEEEELES LLLEEE	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at ml30 gp	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 1200cfm Generator, trailer 150.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/11 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day	8.00 mhr/day 8.00 mhr/day	2 2 2 3	\$3.00 \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$16.98 \$16.98	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /mhr /m	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 576.0 ml 192.0 ml	s8,784  nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 nr \$12,299 \$4,901 7 \$180,747 nr \$10,492 nr \$29,918 nr \$12,299 \$14,187 \$6,522 \$3,233 \$21,024
M LLLLEEEELES LLLEEEM	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at mI30 gp sn	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid Soil nials	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day 96.00 ea	8.00 mhr/day 8.00 mhr/day	2 2 2 3 6 2 2 2 2 2	\$3.00 \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /mhr /m	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 576.0 ml 192.0 ml 384.0 hr 192.0 ml	s8,784  nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 nr \$12,299 \$4,901 7 \$180,747 nr \$10,492 nr \$29,918 nr \$12,299 \$14,187 \$6,522 \$3,233 \$21,024
M LLLLEEEELES LLLEEEM	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at mI30 gp sn	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid Soil nials	000W 5164 lcy Soil Nail Crew 12.00 day 12.00 day 96.00 ea 96.00 ea	8.00 mhr/day 8.00 mhr/day	2 2 2 3	\$3.00 \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 576.0 ml 192.0 ml 384.0 hr 192.0 ml	\$8,784 or \$10,492 or \$19,945 or \$9,973 or \$24,597 or \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 or \$12,299 \$4,901 or \$180,747 or \$10,492 or \$29,918 or \$12,299 \$4,187 or \$29,918 or \$12,299 \$14,187 \$6,522 \$3,233 \$21,024 \$1,438
M LLLLEEEELES LLLEEEMM	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at mI30 gp sn cs Iab	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid Soil nials Cement - sack	Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day 96.00 ea 96.00 ea Excavation Crew	8.00 mhr/day 8.00 mhr/day 8.00 hr/day	2 2 2 3 6 2 2 2 2 2	\$3.00 \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84 \$219 \$14.98	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /mhr /m	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 384.0 hr 192.0 ml 576.0 ml 192.0 ml	s8,784  nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 nr \$12,299 \$4,901 7 \$180,747 nr \$10,492 \$1,438 nr \$12,299 \$14,187 \$6,522 \$3,233 \$21,024 \$1,438 nr \$7,479
M LLLLEEEELES LLLEEEMM L	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck Ifm Iab drill at mI30 gp sn cs Iab eo3+	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid Soil nials Cement - sack  General Labor (Grp 1)	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day 96.00 ea 96.00 ea Excavation Crew 9.00 day	8.00 mhr/day 8.00 mhr/day 8.00 hr/day	2 2 2 3 3 6 2 2 2 2 2	\$3.00 \$54.65 \$51.94 \$64.06 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84 \$219 \$14.98	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /mhr /m	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 384.0 hr 192.0 ml 576.0 ml 192.0 ml 676.0 ml 192.0 ml 96.00 ea 96.00 ea	s8,784  nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 nr \$12,299 \$4,901 7 \$180,747 nr \$10,492 nr \$29,918 nr \$12,299 \$14,187 \$6,522 \$3,233 \$21,024 \$1,438 nr \$7,479
M LLLLEEEELES LLLEEEMM LL	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck Ifm Iab drill at mI30 gp sn cs Iab eo3+	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid Soil nials Cement - sack  General Labor (Grp 1) Excavator >3.5cy (Grp 8)	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day 96.00 ea 96.00 ea Excavation Crew 9.00 day 9.00 day	8.00 mhr/day 8.00 mhr/day 8.00 hr/day 8.00 mhr/day 8.00 mhr/day	2 2 2 3 3 6 2 2 2 2 2 2	\$3.00 \$54.65 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84 \$219 \$14.98	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /mhr /m	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 384.0 hr 192.0 ml 576.0 ml 192.0 ml 676.0 ml 192.0 ml 96.00 ea 96.00 ea	s8,784  nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 nr \$12,299 \$4,901 ( \$180,747 nr \$10,492 nr \$29,918 nr \$12,299 \$14,187 \$6,522 \$3,233 \$21,024 \$1,438 nr \$7,479 nr \$9,224
M LLLLEEEELES LLLEEEMM LLE .	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at mI30 gp sn cs  Iab eo3+ he330	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid Soil nials Cement - sack  General Labor (Grp 1) Excavator >3.5cy (Grp 8) SK330LC Exc 77.8/2.1cy	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day 96.00 ea 96.00 ea Excavation Crew 9.00 day 9.00 day 9.00 day Shotcrete Crew	8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 hr/day	2 2 2 3 3 6 2 2 2 2 2 2	\$3.00 \$54.65 \$51.94 \$64.06 \$86.76 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84 \$219 \$14.98	init Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 384.0 hr 192.0 ml 576.0 ml 192.0 ml 676.0 ml 192.0 ml 192.0 ml 484.0 hr 192.0 hr 192.0 ml 194.0 hr 194.0 hr 194.0 hr 194.0 hr	series se
M LLLLEEEELES LLLEEEMM LLE L	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at mI30 gp sn cs  Iab eo3+ he330 Iab	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid Soil nials Cement - sack  General Labor (Grp 1) Excavator >3.5cy (Grp 8) SK330LC Exc 77.8/2.1cy  General Labor (Grp 1)	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day 96.00 ea 96.00 ea Excavation Crew 9.00 day 9.00 day 9.00 day Shotcrete Crew 3.00 day	8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day	2 2 2 2 3 3 6 2 2 2 2 2 2 2 2	\$3.00 \$54.65 \$51.94 \$64.06 \$64.06 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84 \$219 \$14.98 \$51.94 \$64.06 \$36.95 \$15.94	init Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 384.0 hr 192.0 ml 576.0 ml 192.0 ml 676.0 ml 192.0 ml 192.0 ml 444.0 hr 194.0 hr 194.0 hr 194.0 hr	series se
M LLLLEEEELES LLLEEEMM LLE LE	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at ml30 gp sn cs Iab eo3+ he330 Iab sp2	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/1m Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid Soil nials Cement - sack  General Labor (Grp 1) Excavator >3.5cy (Grp 8) SK330LC Exc 77.8/2.1cy  General Labor (Grp 1) Shotcrete pot Aliva, 2cy/hr	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day 96.00 ea 96.00 ea Excavation Crew 9.00 day 9.00 day 9.00 day Shotcrete Crew 3.00 day 3.00 day	8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 hr/day	2 2 2 3 3 6 2 2 2 2 2 2	\$3.00 \$54.65 \$51.94 \$64.06 \$64.06 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84 \$219 \$14.98 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84 \$219 \$14.98	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 384.0 hr 192.0 ml 576.0 ml 192.0 ml 676.0 ml 192.0 ml 192.0 ml 484.0 hr 192.0 hr 192.0 hr 192.0 ml 192.0 ml 192.0 ml 194.0 hr 194.0 hr 194.0 hr 194.0 ml 144.0 ml 144.0 ml	series se
M LLLLEEEELES LLLEEEMM LLE L	sts  Ifm Iab flag c45- Io4+ hc40 I914 cp12 g10 comp Ip6 muck  Ifm Iab drill at ml30 gp sn cs Iab eo3+ he330 Iab sp2	Total duration Resource Description  Small tools and supplies  Labor FM General Labor (Grp 1) Flagman (Grp 1) Crane oper. <45t (Grp 9) Loader oper. >4cy (Grp 10) Hydraulic Crane 40ton/105' Wheel Loader Cat 914/1.7cy Compressor, trailer 1200cfm Generator, trailer 10.0kW Compressorman (Grp 5) Light Plant/Genset, 6kW, 4/10 Muck disposal  Labor FM General Labor (Grp 1) Drill operator (Grp 6) Air track 12' feed Man-Lift 30' articulated boom Grout Plant, skid Soil nials Cement - sack  General Labor (Grp 1) Excavator >3.5cy (Grp 8) SK330LC Exc 77.8/2.1cy  General Labor (Grp 1)	Support Crew  Support Crew  5164 lcy Soil Nail Crew  12.00 day 12.00 day 96.00 ea 96.00 ea Excavation Crew 9.00 day 9.00 day 9.00 day Shotcrete Crew 3.00 day	8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day 8.00 mhr/day	2 2 2 2 3 3 6 2 2 2 2 2 2 2	\$3.00 \$54.65 \$51.94 \$64.06 \$64.06 \$32.56 \$77.25 \$5.37 \$64.06 \$8.51 \$35.00 \$54.65 \$51.94 \$64.06 \$36.95 \$16.98 \$16.84 \$219 \$14.98 \$51.94 \$64.06 \$36.95 \$15.94	mit Cost /mhr /mhr /mhr /mhr /mhr /mhr /hr /hr /hr /hr /hr /hr /hr /hr /hr /	Resource Quar 2928 ml 192.0 ml 384.0 ml 192.0 ml 384.0 hr 192.0 hr 192.0 hr 192.0 hr 192.0 ml 576.0 hr 5164 lcy 192.0 ml 384.0 hr 192.0 ml 576.0 ml 192.0 ml 676.0 ml 192.0 ml 192.0 ml 444.0 hr 194.0 hr 194.0 hr 194.0 hr	s8,784  nr \$10,492 nr \$19,945 nr \$9,973 nr \$24,597 nr \$12,299 \$33,316 \$6,251 \$14,833 \$1,031 nr \$12,299 \$4,901 7 \$180,747 nr \$10,492 nr \$29,918 nr \$12,299 \$14,187 \$6,522 \$3,233 \$21,024 \$1,438 nr \$7,479 nr \$9,224 \$21,748 nr \$7,479 \$1,847

2

\$86.76 /hr

912.0 hr

\$79,126



Ε

hc40 Hydraulic Crane 40ton/105'

	Item De	scription mfort Road - Final Wall Faciı	ng SB Wall 2	Item Quantity/Unit <b>1 LS</b>	Produ	uction rate		fixed time days	Total time 26 work days
		manhours 5,408	Labor <b>\$357,335</b>	Equipment \$107,559		Material <b>\$207,702</b>	041-	Subcontract \$0	Item Cost <b>\$672,595</b>
	1.000	Status (Additive) Schedule factor (Normal) Final wall facing	8 hr/shift	Work schedule 1 shift/day	5 (	day/week		er ST pay hr/shift	Other OT pay O hr/shift
		Install reinforcement Set / strip wall forms	22980 lb 12700 sf	150 lb/mhr 16 sf/mhr		mhr/day mhr/day	3 12		
		Concrete pours Place aggregate base Slope stability	6 ea 1350 ton	1 ea/day			6 2 3		
		Total duration					26		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource U		Resource Qu	
М	sts	Small tools and supplies	Support Crow			\$3.00	/mhr	5408 r	mhr \$16,224
L	lfm	Labor FM	Support Crew			\$54.65	/mhr	208.0 r	mhr \$11,367
L	lab	General Labor (Grp 1)			2	\$51.94		416.0 r	
L	flag	Flagman (Grp 1)				\$51.94	/mhr	208.0 r	
L	c45-	Crane oper. <45t (Grp 9)				\$64.06	/mhr	208.0 r	mhr \$13,324
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06	/mhr	208.0 r	mhr \$13,324
Ε	hc40	Hydraulic Crane 40ton/105'				\$86.76	/hr	208.0 h	nr \$18,046
Ε	1914	Wheel Loader Cat 914/1.7cy				\$32.56	/hr	208.0 ł	nr \$6,772
Ε	cp12	Compressor, trailer 1200cfm				\$77.25		208.0 h	
Е	g10	Generator, trailer 10.0kW				\$5.37		208.0 l	
L		Compressorman (Grp 5)				\$64.06		208.0 r	
E	lp6	Light Plant/Genset, 6kW, 4/10			3	\$8.51		624.0 h	
Е	p205	Pump, trash 205gpm/100ft he				\$10.73	/hr	208.0 h	nr \$2,232
	16	Labor ENA	Structure Crew			<b>Φ54 05</b>	for the second	000.0	
L	lfm	Labor FM				\$54.65		208.0 r	
L	lab	General Labor (Grp 1)			4	\$51.94		208.0 r	
L	cfm	Carpenter FM			1 8	\$75.56 \$72.85		208.0 r 1664 r	
L L	cjm ifm	Carpenter JM Ironworker FM			1	\$72.65 \$72.12		208.0 r	
Ĺ	ijm	Ironworker JM			6	\$69.42		1248 r	
Ĺ	•	Concrete equip.oper. (Grp 2)			U	\$61.73		208.0 r	. ,
Ē		Conc. Pump, truck 130cy/hr				\$189		208.0 h	
Ē	vib	Concrete vibrators			600%	\$9.33		1248 h	
М	lumb	Lumber for lagging/forms	12700 sf	1.50 bf/sf	00070	\$2.35		19050 k	: 1
М	ply1	Plywood MDO 1"	12700 sf			\$2.46		12700 s	
М	ff	Form fasteners	12700 sf			\$0.32		12700 s	
М	foil	Form oil	12700 sf			\$0.16		12700 s	
М	cure	Curing compound	12700 sf			\$0.02		12700 s	
М	xf	Misc form supplies	12700 sf			\$0.43		12700 s	
М	rp	Reinforcing steel, plain	22980 lb			\$0.49		22980 I	
Ε	ml30	Man-Lift 30' articulated boom			2	\$16.98		416.0 h	
M	c5	Concrete, 5000psi mix	383.0 cy			\$136	/cy	383.0 (	cy \$51,897
M	aggc	Coarse aggregate	1350 ton			\$22.00	/ton	1350 t	on \$29,700
			Slope Stability Mat	terial					
М	xmisc	Miscellaneous material	10.00 lot			\$1,070	/lot	10.00 I	ot \$10,700
NI-	H D-			14 O4i4-// Ii4	Deside	4:4	Other	fixed time	Total time
No.		scription <b>mfort Road - Final Wall Faci</b> ı	ng SR Wall 1	Item Quantity/Unit 1 LS	Produ	uction rate		days	20 work days
000	WIL OU	manhours	•	Equipment		Material		Subcontract	Item Cost
		4,160		\$82,738		\$141,576		\$0	\$499,187
		Status (Additive)	<b>V</b> =1 1,010	Work schedule		<b>*</b> · · · · , <b>·</b> · · ·	Oth	er ST pay	Other OT pay
	1.000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5 0	day/week		hr/shift	0 hr/shift
-		Final wall facing		· ,					
		Install reinforcement	14640 lb	150 lb/mhr	56 r	mhr/day	2		
		Set / strip wall forms	7000 sf	16 sf/mhr	72 r	mhr/day	7		
		Concrete pours	6 ea	1 ea/day		-	6		
		Place aggregate base	1350 ton	•			2		
		Slope stability					3		
		Total duration					20		
R/T	Code	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource U	nit Cost	Resource Qu	antity Resource Cost
M	sts	Small tools and supplies				\$3.00	/mhr	4160 r	mhr \$12,480
			Support Crew						
L	lfm	Labor FM				\$54.65	/mhr	160.0 r	mhr \$8,744
L	lab	General Labor (Grp 1)			2	\$51.94	/mhr	320.0 r	mhr \$16,621



L	flag	Flagman (Grp 1)				\$51.94 /mhi	r 160.0 m	ıhr \$8,310
L	c45-	Crane oper. <45t (Grp 9)				\$64.06 /mhi	r 160.0 m	hr \$10,249
L	lo4+	Loader oper. >4cy (Grp 10)				\$64.06 /mhi	r 160.0 m	hr \$10,249
Е	hc40	Hydraulic Crane 40ton/105'				\$86.76 /hr	160.0 hr	r \$13,882
Е	1914	Wheel Loader Cat 914/1.7cy				\$32.56 /hr	160.0 hr	r \$5,209
Е	cp12	Compressor, trailer 1200cfm				\$77.25 /hr	160.0 hr	r \$12,360
Е	g10	Generator, trailer 10.0kW				\$5.37 /hr	160.0 hr	r \$859
L	comp	Compressorman (Grp 5)				\$64.06 /mhi	r 160.0 m	hr \$10,249
Ε	lp6	Light Plant/Genset, 6kW, 4/10	W00W		3	\$8.51 /hr	480.0 hr	r \$4,084
Е	p205	Pump, trash 205gpm/100ft he	ad			\$10.73 /hr	160.0 hr	r \$1,717
	•	. · · · · · · · · · · · · · · · · · · ·	Structure Crew					
L	lfm	Labor FM				\$54.65 /mhi	r 160.0 m	hr \$8,744
L	lab	General Labor (Grp 1)				\$51.94 /mhi		
Ĺ	cfm	Carpenter FM			1	\$75.56 /mhi		. ,
Ĺ	cjm	Carpenter JM			8	\$72.85 /mhi		, ,
L	ifm	Ironworker FM			1	\$72.12 /mhi		
L	ijm	Ironworker JM			6	\$69.42 /mhi		
Ē.		Concrete equip.oper. (Grp 2)				\$61.73 /mhi		
Е		Conc. Pump, truck 130cy/hr				\$189 /hr	160.0 hr	
Е	vib	Concrete vibrators			600%	\$9.33 /hr	960.0 hr	r \$8,955
M	lumb	Lumber for lagging/forms	7000 sf	1.50 bf/sf		\$2.35 /bf	10500 bf	f \$24,717
М	ply1	Plywood MDO 1"	7000 sf			\$2.46 /sf	7000 sf	\$17,227
M	ff	Form fasteners	7000 sf			\$0.32 /sf	7000 sf	\$2,247
М	foil	Form oil	7000 sf			\$0.16 /sf	7000 sf	
М	cure	Curing compound	7000 sf			\$0.02 /sf	7000 sf	
М	xf	Misc form supplies	7000 sf			\$0.43 /sf	7000 sf	. *
M	rp	Reinforcing steel, plain	14640 lb			\$0.49 /lb	14640 lb	
E	•	Man-Lift 30' articulated boom	מו טדטדו		2	\$16.98 /hr	320.0 hr	
			244.0 m/		2			
M	c5	Concrete, 5000psi mix	244.0 cy			\$136 /cy	244.0 cy	' : ·
М	aggc	Coarse aggregate	1350 ton			\$22.00 /ton	1350 to	on \$29,700
			Slope Stability Man	terial		****	40.00	
М	xmisc	Miscellaneous material	10.00 lot			\$1,070 /lot	10.00 lo	t \$10,700
040	Mt Co	omfort Rd - NB Roadway Con manhours		1 LS			80 days	80 work days
		0	\$0	Equipment <b>\$0</b>		Material <b>\$0</b>	Subcontract <b>\$2,930,000</b>	Item Cost <b>\$2,930,000</b>
			\$0	<b>\$0</b> Work schedule		\$0	<b>\$2,930,000</b> Other ST pay	<b>\$2,930,000</b> Other OT pay
	1.000	O Status (Additive) Schedule factor (Normal)	<b>\$0</b> 8 hr/shift	\$0 Work schedule 1 shift/day	5 da		\$2,930,000	\$2,930,000
	1.000	0 Status (Additive)	<b>\$0</b> 8 hr/shift	\$0 Work schedule 1 shift/day	5 da 80 da	<b>\$0</b> ay/week	<b>\$2,930,000</b> Other ST pay	<b>\$2,930,000</b> Other OT pay
R/T	1.000 Code	O Status (Additive) Schedule factor (Normal)	<b>\$0</b> 8 hr/shift	\$0 Work schedule 1 shift/day		<b>\$0</b> ay/week	\$2,930,000 Other ST pay 0 hr/shift	\$2,930,000 Other OT pay 0 hr/shift
R/T		Status (Additive) Schedule factor (Normal) Construct roadway North & So	\$0 8 hr/shift outh of North Bound	Work schedule 1 shift/day Underpass Production rate	80 da	<b>\$0</b> ay/week ays	\$2,930,000 Other ST pay 0 hr/shift	\$2,930,000 Other OT pay 0 hr/shift
R/T S	Code	Status (Additive) Schedule factor (Normal) Construct roadway North & So	8 hr/shift outh of North Bound Resource Qty/Unit	Work schedule 1 shift/day Underpass Production rate	80 da Factor	<b>\$0</b> ay/week ays	\$2,930,000 Other ST pay 0 hr/shift	\$2,930,000 Other OT pay 0 hr/shift Intity Resource Cost
	Code	Status (Additive) Schedule factor (Normal) Construct roadway North & Scresource Description	8 hr/shift outh of North Bound Resource Qty/Unit Roadway Construc	Work schedule 1 shift/day d Underpass Production rate	80 da Factor	\$0 ay/week ays Resource Unit Co	\$2,930,000 Other ST pay 0 hr/shift  Resource Qua	\$2,930,000 Other OT pay 0 hr/shift Intity Resource Cost
S	Code	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  NB Roadway Construction	8 hr/shift outh of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes	Work schedule 1 shift/day d Underpass Production rate	80 da Factor	say/week ays Resource Unit Cos 52,430,000 /LS	\$2,930,000 Other ST pay 0 hr/shift  Resource Qua	\$2,930,000 Other OT pay 0 hr/shift  Resource Cost \$ \$2,430,000
	Code	Status (Additive) Schedule factor (Normal) Construct roadway North & Scresource Description	8 hr/shift outh of North Bound Resource Qty/Unit Roadway Construc	Work schedule 1 shift/day d Underpass Production rate	80 da Factor	\$0 ay/week ays Resource Unit Co	\$2,930,000 Other ST pay 0 hr/shift  Resource Qua	\$2,930,000 Other OT pay 0 hr/shift  Resource Cost \$ \$2,430,000
s s	code roadN land	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  NB Roadway Construction Streetscaping	8 hr/shift outh of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes	Work schedule 1 shift/day d Underpass Production rate ction stetic Features	80 da Factor \$	\$0 ay/week ays Resource Unit Cos 52,430,000 /LS \$500,000 /LS	\$2,930,000 Other ST pay 0 hr/shift  Resource Qua 1.00 LS	\$2,930,000 Other OT pay 0 hr/shift  Intity Resource Cost S \$2,430,000 S \$500,000
S S No.	Code roadN land	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit	80 da Factor \$	\$0 ay/week ays Resource Unit Cos 52,430,000 /LS \$500,000 /LS	\$2,930,000 Other ST pay 0 hr/shift  Resource Qua 1.00 LS  1.00 LS  Other fixed time	\$2,930,000 Other OT pay 0 hr/shift  Intity Resource Cost S \$2,430,000 S \$500,000  Total time
S S No.	Code roadN land	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  INB Roadway Construction Streetscaping Escription Confort Rd - Broadway Int. Roadway Int. Ro	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS	80 da Factor \$	ay/week ays Resource Unit Cor 52,430,000 /LS \$500,000 /LS	\$2,930,000 Other ST pay 0 hr/shift  Resource Qua 1.00 LS  1.00 LS  Other fixed time 40 days	\$2,930,000 Other OT pay 0 hr/shift  Antity Resource Cost S \$2,430,000 S \$500,000  Total time 40 work days
S S No.	Code roadN land	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping escription Comfort Rd - Broadway Int. Roadway	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment	80 da Factor \$	ay/week ays Resource Unit Cos 52,430,000 /LS \$500,000 /LS stion rate  Material	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS 1.00 LS Other fixed time 40 days Subcontract	\$2,930,000 Other OT pay 0 hr/shift  Resource Cost \$ \$2,430,000  \$ \$500,000  Total time 40 work days Item Cost
S S No.	Code roadN land	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping escription comfort Rd - Broadway Int. Roadway 0	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0	80 da Factor \$	ay/week ays Resource Unit Cor 52,430,000 /LS \$500,000 /LS	\$2,930,000 Other ST pay 0 hr/shift  St Resource Quants 1.00 LS 1.00 LS Other fixed time 40 days Subcontract \$1,860,000	\$2,930,000 Other OT pay 0 hr/shift  Resource Cost \$ \$2,430,000  \$ \$500,000  Total time 40 work days Item Cost \$1,860,000
S S No.	Code roadN land ltem De Mt Co	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping Exerciption Comfort Rd - Broadway Int. Roadway Int. Roadway (Additive)	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0 Work schedule	80 da Factor \$ Produc	\$0 ay/week ays Resource Unit Co: \$2,430,000 /LS \$500,000 /LS stion rate  Material \$0	\$2,930,000 Other ST pay 0 hr/shift  St Resource Quants 1.00 LS 1.00 LS Other fixed time 40 days Subcontract \$1,860,000 Other ST pay	\$2,930,000 Other OT pay 0 hr/shift  Resource Cost \$ \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay
S S No.	Code roadN land ltem De Mt Co	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping Exerciption Comfort Rd - Broadway Int. Roadway Int. Roadway (Additive) Status (Additive) Schedule factor (Normal)	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0	80 da Factor \$ Produc	ay/week ays Resource Unit Co. 32,430,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week	\$2,930,000 Other ST pay 0 hr/shift  St Resource Quants 1.00 LS 1.00 LS Other fixed time 40 days Subcontract \$1,860,000	\$2,930,000 Other OT pay 0 hr/shift  Resource Cost \$ \$2,430,000  \$ \$500,000  Total time 40 work days Item Cost \$1,860,000
S S No. <b>041</b>	roadN land Item De Mt Co	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping escription Infort Rd - Broadway Int. Roadway Int. Roadway (Additive) Status (Additive) Schedule factor (Normal) Construct roadway at Broadway	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day	80 da Factor \$ Produc 5 da 40 da	ay/week ays Resource Unit Cos 52,430,000 /LS \$500,000 /LS stion rate  Material \$0  ay/week ays	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift	\$2,930,000 Other OT pay 0 hr/shift  Resource Cost \$ \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift
S S No.	Code roadN land ltem De Mt Co	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping Exerciption Comfort Rd - Broadway Int. Roadway Int. Roadway (Additive) Status (Additive) Schedule factor (Normal)	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate	80 da Factor \$ Produc	ay/week ays Resource Unit Co. 32,430,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift	\$2,930,000 Other OT pay 0 hr/shift  Resource Cost \$ \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift
S S No. <b>041</b>	roadN land Item De Mt Co	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping escription Infort Rd - Broadway Int. Roadway Int. Roadway (Additive) Status (Additive) Schedule factor (Normal) Construct roadway at Broadway	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate	80 da Factor \$ Produc 5 da 40 da	ay/week ays Resource Unit Cos 52,430,000 /LS \$500,000 /LS stion rate  Material \$0  ay/week ays	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift	\$2,930,000 Other OT pay 0 hr/shift  Resource Cost \$ \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift
S S No. <b>041</b>	roadN land ltem De Mt Co  1.000 Code	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping escription Infort Rd - Broadway Int. Roadway Int. Roadway (Additive) Status (Additive) Schedule factor (Normal) Construct roadway at Broadway	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct Roadway Construct	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate	80 da Factor \$ Produc 5 da 40 da Factor	ay/week ays Resource Unit Cos 52,430,000 /LS \$500,000 /LS stion rate  Material \$0  ay/week ays	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift	\$2,930,000 Other OT pay 0 hr/shift  Initity Resource Cost S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Initity Resource Cost
S S No. <b>041</b>	roadN land ltem De Mt Co  1.000 Code	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping Exerciption Exe	8 hr/shift outh of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate	80 da Factor \$ Produc 5 da 40 da Factor	ay/week ays Resource Unit Cor 52,430,000 /LS \$500,000 /LS tion rate  Material \$0  ay/week ays Resource Unit Cor	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Quantiles St Resource Quantiles St Resource Quantiles	\$2,930,000 Other OT pay 0 hr/shift  Initity Resource Cost S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Initity Resource Cost
S S No. <b>041</b>	roadN land ltem De Mt Co  1.000 Code roadB	Status (Additive) Schedule factor (Normal) Construct roadway North & Schesource Description  INB Roadway Construction Streetscaping Escription Infort Rd - Broadway Int. Roamanhours Ostatus (Additive) Schedule factor (Normal) Construct roadway at Broadway Resource Description	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate	80 da Factor \$ Produc 5 da 40 da Factor	solve says Resource Unit Constant Section rate  Material solve says Resource Unit Constant Solve says Resour	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Intity Resource Cost S \$1,360,000
S S No. <b>041</b>	roadN land ltem De Mt Co  1.000 Code	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  I NB Roadway Construction Streetscaping Exerciption Exe	8 hr/shift outh of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate	80 da Factor \$ Produc 5 da 40 da Factor	ay/week ays Resource Unit Cor 52,430,000 /LS \$500,000 /LS tion rate  Material \$0  ay/week ays Resource Unit Cor	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Quantiles St Resource Quantiles St Resource Quantiles	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Intity Resource Cost S \$1,360,000
S S No. 0411	roadN land ltem De Mt Co  1.000 Code roadB land	Status (Additive) Schedule factor (Normal) Construct roadway North & Schesource Description  INB Roadway Construction Streetscaping Escription Emfort Rd - Broadway Int. Roamanhours O Status (Additive) Schedule factor (Normal) Construct roadway at Broadway Resource Description Broadway Roadway Construct Streetscaping	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes	Work schedule 1 shift/day d Underpass Production rate ction stetic Features  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction stetic Features	80 da Factor \$ Produc 5 da 40 da Factor	\$0 ay/week ays Resource Unit Cor \$2,430,000 /LS \$500,000 /LS ttion rate  Material \$0 ay/week ays Resource Unit Cor \$1,360,000 /LS \$500,000 /LS	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Intity Resource Cost S \$1,360,000 S \$500,000
S S No. 0411 S S No.	roadN land ltem De Mt Co  1.000 Code roadB land	Status (Additive) Schedule factor (Normal) Construct roadway North & Son Resource Description  INB Roadway Construction Streetscaping  Pescription Status (Additive) Schedule factor (Normal) Construct roadway at Broadway Resource Description  Broadway Roadway Construct Streetscaping	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes 1.00 LS	Work schedule 1 shift/day d Underpass Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction  Stetic Features	80 da Factor \$ Produc 5 da 40 da Factor	\$0 ay/week ays Resource Unit Cor \$2,430,000 /LS \$500,000 /LS ttion rate  Material \$0 ay/week ays Resource Unit Cor \$1,360,000 /LS \$500,000 /LS	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Intity Resource Cost S \$1,360,000 S \$500,000 Total time
S S S No. <b>041</b>	roadN land ltem De Mt Co  1.000 Code roadB land	Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Normal) Construct roadway North & Schedule Description I NB Roadway Construction Streetscaping Escription Infort Rd - Broadway Int. Roamanhours O Status (Additive) Schedule factor (Normal) Construct roadway at Broadway Resource Description I Broadway Roadway Construct Streetscaping Escription Omfort Rd - SB Roadway Construct Omfort Rd - SB R	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes 1.00 LS	Work schedule 1 shift/day d Underpass Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction  Stetic Features	80 da Factor \$ Produc 5 da 40 da Factor	\$0 ay/week ays Resource Unit Cos \$2,430,000 /LS \$500,000 /LS ction rate  Material \$0 ay/week ays Resource Unit Cos \$1,360,000 /LS \$500,000 /LS	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS  1.00 LS  Other fixed time 70 days	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Intity Resource Cost S \$1,360,000 S \$500,000  Total time 70 work days
S S S No. <b>041</b>	roadN land ltem De Mt Co  1.000 Code roadB land	Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Normal) Construct roadway North & Schedule Description  Streetscaping  Pescription Comfort Rd - Broadway Int. Roadway Schedule factor (Normal) Construct roadway at Broadway Resource Description Broadway Roadway Construct Streetscaping  Streetscaping  Streetscaping  Streetscaping  Secription Comfort Rd - SB Roadway Construct Construct Rd - SB Roadway Rd - SB Rd -	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes 1.00 LS	Work schedule 1 shift/day d Underpass Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction  Item Quantity/Unit 1 LS Equipment \$1 Equipment 1 shift/day	80 da Factor \$ Produc 5 da 40 da Factor	\$0 ay/week ays Resource Unit Cos \$2,430,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week ays Resource Unit Cos \$1,360,000 /LS \$500,000 /LS \$tion rate  Material	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS 1.00 LS Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS Other fixed time 70 days Subcontract	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  sintity Resource Cost S \$1,360,000 S \$500,000  Total time 70 work days Item Cost
S S S No. <b>041</b>	roadN land ltem De Mt Co  1.000 Code roadB land	Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Normal) Construct roadway North & Schedule Description  INB Roadway Construction Streetscaping  Pascription Status (Additive) Schedule factor (Normal) Construct roadway at Broadway Resource Description Broadway Roadway Construct Streetscaping  Streetscaping  Streetscaping  Streetscaping  Streetscaping  Streetscaping	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes 1.00 LS	Work schedule 1 shift/day d Underpass Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Underpass Equipment \$0 Unit 1 LS Equipment Equipment So	80 da Factor \$ Produc 5 da 40 da Factor	\$0 ay/week ays Resource Unit Cos \$2,430,000 /LS \$500,000 /LS ction rate  Material \$0 ay/week ays Resource Unit Cos \$1,360,000 /LS \$500,000 /LS	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS 1.00 LS Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS Other fixed time 70 days Subcontract \$1,715,000	\$2,930,000 Other OT pay 0 hr/shift  Resource Cost \$ \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Initity Resource Cost \$1,360,000 S \$1,360,000  Total time 70 work days Item Cost \$1,715,000
S S S No. <b>041</b>	roadN land ltem De Mt Co  1.000 Code roadB land ltem De	Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Normal) Construct roadway North & Schedule Description  Streetscaping  Bescription Construct roadway Int. Roadway Int. Roadway (Normal) Construct roadway at Broadway Resource Description Broadway Roadway Construct Streetscaping	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes 1.00 LS  struction  Labor \$0	Work schedule 1 shift/day d Underpass Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day	80 da Factor  \$ Product  \$ 40 da Factor  \$ Product	\$0 ay/week ays Resource Unit Cos \$2,430,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week ays Resource Unit Cos \$1,360,000 /LS \$500,000 /LS \$500,000 /LS	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  Other fixed time 70 days Subcontract \$1,715,000 Other ST pay Other ST pay	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Total time 70 work days Item Cost \$1,360,000 S \$500,000
S S No. 0411 S S No.	roadN land ltem De Mt Co  1.000 Code roadB land ltem De	Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Normal) Resource Description  INB Roadway Construction Streetscaping  Pescription Status (Additive) Schedule factor (Normal) Construct roadway at Broadway Resource Description Broadway Roadway Construct Streetscaping  Pescription Streetscaping	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes 1.00 LS  struction  Labor \$0  8 hr/shift	Work schedule 1 shift/day d Underpass Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day	80 da Factor  \$ Product  \$ 40 da Factor  \$ Product \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$0 ay/week ays Resource Unit Cos \$2,430,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week ays Resource Unit Cos \$1,360,000 /LS \$500,000 /LS \$500,000 /LS ay/week ays And	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS 1.00 LS Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua 1.00 LS Other fixed time 70 days Subcontract \$1,715,000	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Initity Resource Cost S \$1,360,000 S \$500,000  Total time 70 work days Item Cost \$1,715,000
S S No. 0411 S S No.	roadN land ltem De Mt Co  1.000 Code roadB land ltem De	Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Normal) NB Roadway Construction Streetscaping  Pescription Construct roadway Int. Roadway Int. Roadway (Additive) Schedule factor (Normal) Construct roadway at Broadway Resource Description Construct Rd - SB Roadway Construct Streetscaping Construct Rd - SB Roadway Construct Streetscaping Construct Rd - SB Roadway Construct Streetscaping Construct Rd - SB Roadway Construct Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Normal) Construct roadway North & Schedule factor (Normal)	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes 1.00 LS  struction  Labor \$0  8 hr/shift buth of South Bound	Work schedule 1 shift/day d Underpass Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day d Underpass	80 da Factor  \$ Product  \$ 40 da Factor  \$ Product	\$0 ay/week ays Resource Unit Cos \$2,430,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week ays Resource Unit Cos \$1,360,000 /LS \$500,000 /LS \$500,000 /LS ay/week ays And	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  Other fixed time 70 days Subcontract \$1,715,000 Other ST pay Other ST pay	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Total time 70 work days Item Cost \$1,715,000 Other OT pay Other OT pay
S S No. 8 S No. 8 S No.	roadN land ltem De Mt Co  1.000 Code roadB land ltem De	Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Normal) Resource Description  INB Roadway Construction Streetscaping  Pescription Status (Additive) Schedule factor (Normal) Construct roadway at Broadway Resource Description Broadway Roadway Construct Streetscaping  Pescription Streetscaping	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes 1.00 LS  struction  Labor \$0  8 hr/shift buth of South Bound Resource Qty/Unit Resource Qty/Unit Streetscape & Aes 2.00 LS	Work schedule 1 shift/day d Underpass Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Item Quantity/Unit 1 LS Equipment stetic Features	80 da Factor  \$ Product  \$ 40 da Factor  \$ Product \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$0 ay/week ays Resource Unit Cos \$2,430,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week ays Resource Unit Cos \$1,360,000 /LS \$500,000 /LS \$500,000 /LS ay/week ays And	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  Other fixed time 70 days Subcontract \$1,715,000 Other ST pay 0 hr/shift	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Total time 70 work days Item Cost \$1,360,000  Total time 70 work days Item Cost \$1,715,000 Other OT pay 0 hr/shift
S S No. 0411 S S No. 0422	Code roadN land ltem De Mt Co  1.000 Code roadB land ltem De Mt Co  1.000 Code	Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Pormal) Resource Description  INB Roadway Construction Streetscaping Secription Infort Rd - Broadway Int. Roamanhours O Status (Additive) Schedule factor (Normal) Construct roadway at Broadway Resource Description Infort Rd - SB Roadway Construct Streetscaping Streetscaping Streetscaping Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor Description	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes 1.00 LS  struction  Labor \$0  8 hr/shift buth of South Bound	Work schedule 1 shift/day d Underpass Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Item Quantity/Unit 1 LS Equipment stetic Features	80 da Factor  Produce  \$ 40 da Factor  \$ 70 da	ay/week ays Resource Unit Cos 52,430,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week ays Resource Unit Cos 51,360,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week ays	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  Other fixed time 70 days Subcontract \$1,715,000 Other ST pay 0 hr/shift  St Resource Qua  The fixed time 70 days Subcontract \$1,715,000 Other ST pay 0 hr/shift  St Resource Qua  The fixed time 70 days Subcontract \$1,715,000 Other ST pay 0 hr/shift  St Resource Qua  The fixed time 70 days Subcontract \$1,715,000 Other ST pay 0 hr/shift	\$2,930,000 Other OT pay 0 hr/shift  S \$2,430,000 S \$500,000  Total time 40 work days Item Cost \$1,860,000 Other OT pay 0 hr/shift  Initity Resource Cost S \$1,360,000 S \$500,000  Total time 70 work days Item Cost \$1,715,000 Other OT pay 0 hr/shift
S S No. <b>041</b> R/T S S No. <b>042</b>	Code roadN land ltem De Mt Co  1.000 Code roadB land ltem De Mt Co  1.000 Code	Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Normal) NB Roadway Construction Streetscaping  Pescription Construct roadway Int. Roadway Int. Roadway (Additive) Schedule factor (Normal) Construct roadway at Broadway Resource Description Construct Rd - SB Roadway Construct Streetscaping Construct Rd - SB Roadway Construct Streetscaping Construct Rd - SB Roadway Construct Streetscaping Construct Rd - SB Roadway Construct Status (Additive) Schedule factor (Normal) Construct roadway North & Schedule factor (Normal) Construct roadway North & Schedule factor (Normal)	8 hr/shift buth of North Bound Resource Qty/Unit Roadway Construct Streetscape & Aes 1.00 LS  adway  Labor \$0  8 hr/shift ay Intersection Resource Qty/Unit Roadway Construct tion Streetscape & Aes 1.00 LS  struction  Labor \$0  8 hr/shift buth of South Bound Resource Qty/Unit Resource Qty/Unit Streetscape & Aes 2.00 LS	Work schedule 1 shift/day d Underpass Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Production rate ction  Item Quantity/Unit 1 LS Equipment \$0 Work schedule 1 shift/day  Item Quantity/Unit 1 LS Equipment stetic Features	80 da Factor  \$ Product  \$ 40 da Factor  \$ Product  \$ 40 da Factor	ay/week ays Resource Unit Cos 52,430,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week ays Resource Unit Cos 51,360,000 /LS \$500,000 /LS stion rate  Material \$0 ay/week ays	\$2,930,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  1.00 LS  Other fixed time 40 days Subcontract \$1,860,000 Other ST pay 0 hr/shift  St Resource Qua  1.00 LS  Other fixed time 70 days Subcontract \$1,715,000 Other ST pay 0 hr/shift	\$2,930,000 Other OT pay 0 hr/shift  Initity Resource Cos S \$2,430,000 S \$500,000  Total time 40 work days Item Cos \$1,860,000 Other OT pay 0 hr/shift  Initity Resource Cos S \$1,360,000 S \$500,000  Total time 70 work days Item Cos \$1,715,000 Other OT pay 0 hr/shift  Item Cos \$1,715,000 Other OT pay 0 hr/shift  Item Cos \$1,715,000 Other OT pay 0 hr/shift



# Streetscape & Aestetic Features

land Streetscaping 1.00 LS

No.	Item De	escription			Item Quantity/Unit	Produ	ction rate (	Other fixed time	Total time
043	Mt Co	mfort Rd - Install Pu	ımp Statio	n	1 LS			50 days	50 work days
			manhours	Labor	Equipment		Material	Subcontract	Item (
			0	\$0	\$0		\$0	\$990,000	\$990,0
		Status (Additive)			Work schedule			Other ST pay	Other OT pay
	1.000	Schedule factor (Normal)		8 hr/shift	1 shift/day	5 c	lay/week	0 hr/shift	0 hr/shift
		Install pump station		3 ea	50 days				
R/T	Code	Resource Description		Resource Qty/Unit	Production rate	Factor	Resource Unit Co	st Resource Qua	antity Resource (
			F	Pump Station Sub-	contractor				
S	psta	Pump Station		3.00 LS			\$330,000 /LS	3.00 L	S \$990.0

\$500,000 /LS

1.00 LS

\$500,000

Project Client Job No. Estimator Rev Computed on Mt Comfort Road Town of McCordsville, IN 6183.0 RLR/BM 7/23/2021 0 11:02 AM

**Dual Underpass Construction - 10% Estimate** 

#### **INDIRECT COST DETAIL**

No.	Item Description	- D'	101	Item Quantity/Unit						
044	Equipment Ownership not in			LS						
	Equipment spread to		Labor	Equipment		Material		Subcontract		Item Cost
		86,111	\$0	\$22,500	_	\$12,500		\$0		\$35,000
Notes		_		E E		ment via Equipme				\$0
	rce Code: Fleet, Purchase, Mob Purch			Fleet Equ	•	Purchased Eq		Fleet + Pur		Rental
	nership cost/hr is based on actual equip			Value	W/O	Value	W/O	Value	W/O	Amount
on-s	site at a single-shift utilization rate of 17		nonth.	\$6,879K	40%	\$0K	- "	\$6,879K	40%	\$0K
		Source Code	Number of Units	Unit Purchase cost, Unit Book value, or Rental	Project	Unit Freight & (carried in Mob.		Ownership	Equip.	Project Cost excluding
R/T	Resource Description	Sou	or Rental Period	Rate per period	Write off	•	,	Cost/hr	mos	freight/erection
M	Sales Tax	<i>,,</i> 0	or resident strong	\$0		on purchases				g
	rly Equipment used in Direct Co	ost Item	s: \$2 686 111	**						
Ε	320 Excavator 43.8k/1.5cy	F	2 ea	\$223,150	40%	\$2,000	16	\$154	1.9	in directs
Ē	SK330LC Exc 77.8/2.1cy	F	2 ea	\$351,945	40%	\$2,000	16	\$93.60		in directs
Ē	Wheel Loader Cat 914/1.7cy	F	2 ea	\$120,000	40%	\$2,000	16	\$12.37		in directs
Ē	Hydraulic Crane 40ton/105'	F	2 ea	\$439,507	40%	\$4,000		\$34.28		in directs
Ē	Truck Crane 150ton/260'	F	2 ea	\$1,303,969	40%	\$2,000		\$4,742		in directs
Ē	Conc. vibrator, internal, 1.75"	F	6 ea	\$1,191	90%	\$200		\$16.08		in directs
Ē	Shotcrete pot Aliva, 2cy/hr	F	2 ea	\$25,000	40%	Ψ200		\$26.60		in directs
Ē	Conc. Pump, truck 130cy/hr	F	1 ea	\$324,346	40%			\$118		in directs
Ē	Compressor, trailer 1200cfm	F	2 ea	\$133,173	40%	\$2,000		\$15.64		in directs
Ē	Generator, trailer 10.0kW	F	2 ea	\$9,884	60%	\$400		\$1.74		in directs
E	Light Plant/Genset, 6kW, 4/10		6 ea	\$12,491	60%	\$200		\$2.21		in directs
E	_	F	3 ea	\$3,128	60%	\$400		\$23.46		in directs
Ē	Welder 400A, trailer E Water Treatment Plant	F	1 ea	\$350,000	45%	\$2,000	24	\$70.56		
							24			in directs
E	Pump, trash 205gpm/100ft he		2 ea	\$1,486		\$400		\$0.86		in directs
E	Man-Lift 30' articulated boom	F	1 ea	\$43,590		\$400		\$1.74		in directs
E	Concrete vibrators	F	3 ea	\$2,000		<b>#</b> 400		\$0.63		in directs
E	Grout Plant, skid	F	1 ea	\$57,500		\$400		\$6.84		in directs
E	Air track 12' feed	F	1 ea	\$220,000	45%	****		\$14.95		in directs
E	Cutting shield steering jacks	F	1 ea	\$250,000	25%	\$2,000		\$49.14		in directs
E	Thrust jack & frame	F	1 ea	\$180,000	25%	\$2,000		\$39.06	1.6	in directs
	peral Plant: \$22,500	_	_							
E	Mechanic's Truck	F	2 ea	\$25,000				\$0.93		\$12,500
E	Pickup Truck	F	1 ea	\$40,000	25%			\$1.48	39.0	\$10,000
	er Plant: \$12,500	_					_			
М	Survey Equipment	F	1 LS	\$50,000	25%	\$200	8			\$12,500
No.	Item Description			Item Quantity/Unit		Mob/demob p	oaid as sch	neduled. Bond	d paid at	NTP.
045	General Mobilization			1.0 mo						
	manho -		Labor	Equipment		Material		Subcontract		Item Cost
	7	'28	\$36,350	\$14,804		\$389,784		\$0		\$440,938
				Work schedule				er ST pay		er OT pay
			8 hr/shift	1 shift/day	5	day/week	0	hr/shift		hr/shift
R/T	Resource Description		Resource Qty/Unit	Production rate	Factor	Resource Un	it Cost	Resource C	Quantity	
М	sts Small tools and supplie	S				\$3.00			mhr	\$2,184
М	Freight-see equipment owners	ship	,	balance in Demobiliz	ation)	\$40,200	(1.5% of	f equip. cos	st)	\$20,100
L	Erection-see equipment owne	•	128 mhr			\$35.55	/mhr	128	mhr	\$4,550
М	Transfer from cost item 050 B	onds, In	,	xes not in General Mo	ob		LS			\$342,750
М	Field office trailer		1 bldg	400 sf/bldg		\$20.00	/sf	400	sf	\$8,000
M	Field office furniture		1 bldg			\$1,750	/bldg	1	bldg	\$1,750
M	Field office computer / printers	3	1 bldg			\$5,000	/bldg	1	bldg	\$5,000
L	Labor all office setups		1 bldg	150 mhr/bldg	4		-		mhr	\$31,800
Ε	Equipment all office setups		2 bldg	50 hr/bldg	2		/hr	200		\$14,804
М	Project signs		1 ea	J		\$10,000			ea	\$10,000



No. <b>046</b>	Item Description  Demobilization/Punchlist		Item Quantity/Unit 1.0 mo		Mob/demob paid as	scheduled. Bond paid a	it NTP.
	manhours	Labor	Equipment		Material	Subcontract	Item Cost
	692	\$36,676	<b>\$25,611</b> Work schedule		\$34,551	<b>\$0</b> Other ST pay Ot	<b>\$96,838</b> her OT pay
		8 hr/shift	1 shift/day	5	day/week		) hr/shift
R/T	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Unit Cost	Resource Quantity	Resource Cost
M	sts Small tools and supplies				\$3.00 /mhr	692 mhr	\$2,076
М	Freight-see equipment ownership	50% of total (b	alance in Mobilization	,	\$40,200 total	000	\$20,100
L	Demobilization labor			4	\$53.00 /mhr	692 mhr	\$36,676
E M	Demobilization equipment  Demobilization material	1 LS		0.5	\$74.02 /hr \$24,750 /LS	346 hr 0.5 LS	\$25,611 \$12,375
IVI	Demodifization material	I LO		0.0	Ψ24,730 720	0.0 LO	Ψ12,070
No.	Item Description		Item Quantity/Unit		The duration is from the	end of mob to the start	of demob
047	General Plant Operation/Maintenar		39.0 mo				
	manhours <b>0</b>	Labor	Equipment		Material	Subcontract	Item Cost
	0.000	<b>\$0</b> \$0.00	<b>\$0</b> \$0.00		<b>\$110,690</b> \$2,838.21	<b>\$7,800</b> \$200.00	<b>\$118,490</b> \$3,038.21
	0.000	φ0.00	Work schedule			•	her OT pay
		8 hr/shift	1 shift/day	5	day/week		) hr/shift
R/T	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Unit Cost	Resource Quantity	Resource Cost
М	Power costs not in equipment rates				\$1,000 /mo	39 mo	\$39,000
М	Cell phones / radio fees		4 umo/mo		\$90.00 /umo	156 umo	\$14,040
M	Drinking water supplies				\$150 /mo	39 mo	\$5,850
M M	Fire protection Supplies First aid supplies				\$100 /mo \$150 /mo	39 mo 39 mo	\$3,900 \$5,850
S	Job sanitary system maintenance				\$100 /mo	39 mo	\$3,900
S	Office cleaning				\$100 /mo	39 mo	\$3,900
M	Office supplies				\$100 /mo	39 mo	\$3,900
M	Health & Safety program				\$100 /mo	39 mo	\$3,900
M	Personal protective equipment	1 LS			\$5,000 /LS	1 LS	\$5,000
M	Job light / power supplies				\$500 /mo	39 mo	\$19,500
M	Fuel / lube facility				\$250 /mo	39 mo	\$9,750
No.	Item Description		Item Quantity/Unit				
	Field Supervision		41.0 mo		The duration is fro	m NTP to project comple	etion.
	man-months	Labor	Equipment		Material	Subcontract	Item Cost
	<b>454</b> 11.067	<b>\$5,441,915</b> \$132,729.64	<b>\$0</b> \$0.00		<b>\$0</b> \$0.00	<b>\$0</b> \$0.00	<b>\$5,441,915</b> \$132,729.64
	11.007	φ132,129.04	Vehicles 5 e	а	197 vmo	·	\$132,729.04 2 ea
	the 'Resources' sheet for an explanati and 'V?' codes denote if relocation exp 36.75 Major work				ated labor burdens		
R/T	Class Resource Description R? V?	Personnel	Duration	Factor	Resource Unit Cost	Resource Quantity	Resource Cost
L	- Labor burden for personnel be			. 4515.	33.0% weigh	,	\$1,351,728
L	KP Project Manager Y Y	1 ea			\$13,000 /mmo		\$533,000
L	KP Project Engineer Y	1 ea			\$10,000 /mmo		\$410,000
L	EP Safety Manager Y	1 ea	36.8 mmo/ea		\$10,000 /mmo		\$367,500
L	EP Field Engineer	3 ea	36.8 mmo/ea		\$6,000 /mmo		\$661,500
L	KP Gen Superintendent Y Y EP Party Chief	1 ea 1 ea	26.0 mma/aa		\$12,000 /mmo		\$492,000
L L	EP Party Chief NL Instrument Man	1 ea 1 ea	36.8 mmo/ea 36.8 mmo/ea		\$10,000 /mmo \$9,250 /mmo		\$367,500 \$339,938
L	EP Scheduling Engineer	1 ea	36.8 mmo/ea		\$6,000 /mmo		\$220,500
L	EP Busniess Manager	1 ea	36.8 mmo/ea		\$8,000 /mmo		\$294,000
L	KP Field Superindendent Y	1 ea	36.8 mmo/ea		\$11,000 /mmo		\$404,250
No. <b>049</b>	Item Description Overhead Maintenance/Service		Item Quantity/Unit		The duration is fro	m NTP to project comple	etion.
2 10		Labor	Equipment		Material	Subcontract	Item Cost
		\$0	\$177,300		\$202,124	\$0	\$379,424
		\$0.00	\$0.00		\$4,929.84	\$0.00	\$9,254.23
R/T	Resource Description	Resource Qty/Unit	Production rate	Factor	Resource Unit Cost	Resource Quantity	Resource Cost
M	Payroll processing, wage labor	695 mmo	4.33 chk/mmo		\$5.50 /chk	3009 chk	\$16,550
M	Payroll processing, salary labor	454 mmo	2 chk/mmo		\$5.50 /chk	908 chk	\$4,994
M	Drug tests	28 test 2 move	2 ea/move		\$500 /test \$5,000 /ea	28 test 4 ea	\$14,000 \$20,000
N/I	Palacation evapores		z eannove		φο,υυυ /ea	4 ea	\$20,000
M M	Relocation expenses Temporary living, salary labor				\$12.520 /ma	A mo	\$50 በደባ
М	Temporary living, salary labor	2 move	2 mo/move		\$12,520 /mo \$900 /vmo	4 mo 197 vmo	\$50,080 \$177.300
	•				\$12,520 /mo \$900 /vmo \$5,000 /mo	4 mo 197 vmo 2 mo	\$50,080 \$177,300 \$10,000



М	Audit fees	3	4 yr			\$2,000 /yr	3.4 yr	\$6,800
М	Legal fees		4 yr			\$2,000 /yr	3.4 yr	\$6,800
M	Personnel recruiting		4 yr			\$2,000 /yr	3.4 yr	\$6,800
	Design department charge		•			\$1,000 /yr	•	\$3,400
M			4 yr	Home Office Overhea	ad		3.4 yr	
M	IT/EDP department charge		4 yr	tems: 0.1% of bid.		\$2,000 /yr	3.4 yr	\$6,800
M	Equipment department charge	3.	4 yr			\$2,000 /yr	3.4 yr	\$6,800
M	Accounting department charge	3.	4 yr			\$2,000 /yr	3.4 yr	\$6,800
M	HR department charge	3.	4 yr			\$2,000 /yr	3.4 yr	\$6,800
М	Corporate department charge	3.	4 yr			\$2,000 /yr	3.4 yr	\$6,800
М	Job photographs/video		,			\$200 /mo	41 mo	\$8,200
M	Pre-construction survey		1 LS			\$12,500 /LS	1 LS	\$12,500
	•						1 LS	
М	Post-construction survey		1 LS			\$8,000 /LS	1 L5	\$8,000
No.	Item Description			Item Quantity/Unit				_
050	Bonds, Insurance, and Taxes no	t in Gene	ral Mob	LS				
			Labor	Equipment	Uncl	assified Material	Subcontract	Item Cost
			\$0	\$0		\$885,399	\$0	\$885,399
Item	s which are specified to be paid und	der Gener		ion are calculated he	re and		er to Mob?' field.	, ,
	is of contractor's equipment insuran						or to mob. noid.	
Das	is of contractors equipment insuran Xfer		/ SIX licet bi	Jok value i work new	puiciie	1363.		
R/T	Resource Description Mol		ce Qty/Unit	Production rate	Factor	Resource Unit Cost	Resource Quantity	Resource Cost
M	Credit for items specified to be tran					LS	Trooburbo Quartity	-\$342,750
M	Performance bond Y		8 M unesc	•	ation	\$8.00 /K Bid	\$42,844 K bid	\$342,750
		7					* ,-	
М	Builder's risk	•	8 M cost	3.5 yr		\$3.00 /K-yr	\$149,953 K-yr	\$449,859
M	Automobile/pickup insurance	197.	0 vmo			\$70.00 /vmo	197 vmo	\$13,790
M	Excess liability umbrella		1 LS			\$250,000 /LS	1 LS	\$250,000
M	Incident deductibles		1 LS			\$150,000 /LS	1 LS	\$150,000
М	State/Local business tax		1 LS			\$5,000 /LS	1 LS	\$5,000
М	Permits and licenses		1 LS			\$10,000 /LS	1 LS	\$10,000
M	Personal property tax		1 yr	1000 k/yr	0.45		450 k	\$6,750
IVI	reisonal property tax		ı yı	1000 K/yI	0.43	φ13.00 /K	450 K	φ0,730
No.	Item Description			Item Quantity/Unit				
INO.	item bescription							
051	Contractor Markun			•				
051	Contractor Markup			LS				
051	Contractor Markup		Labor	<b>LS</b> Equipment	Uncl	assified Material	Subcontract	Item Cost
051	Contractor Markup		Labor <b>\$0</b>	LS	Uncl	assified Material \$4,228,029	Subcontract <b>\$0</b>	\$4,228,029
R/T	Resource Description	Resour		LS Equipment \$0 Markup	Uncl		<b>\$0</b> 10.9% of cost	<b>\$4,228,029</b> Resource Cost
			\$0	LS Equipment \$0	Uncl		\$0	\$4,228,029
R/T	Resource Description	\$	<b>\$0</b> ce Quantity	LS Equipment \$0 Markup	Uncl		<b>\$0</b> 10.9% of cost	<b>\$4,228,029</b> Resource Cost
R/T M M	Resource Description Direct Labor Field Supervision	\$` \$:	\$0 ce Quantity 7,691,373 5,441,915	Equipment \$0  Markup 25% 25%	Uncl		\$0 10.9% of cost 5.0% 3.5%	\$4,228,029 Resource Cost \$1,922,843 \$1,360,479
R/T M M M	Resource Description Direct Labor Field Supervision Equipment	\$ \$: \$(	\$0 ce Quantity 7,691,373 5,441,915 6,247,749	Equipment \$0  Markup 25% 25% 2%	Uncl		\$0 10.9% of cost 5.0% 3.5% 0.3%	\$4,228,029 Resource Cost \$1,922,843 \$1,360,479 \$124,955
R/T M M M M	Resource Description Direct Labor Field Supervision Equipment Material	\$ \$: \$6	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702	Equipment \$0  Markup 25% 25% 2% 2%	Uncl		\$0 10.9% of cost 5.0% 3.5% 0.3% 0.2%	\$4,228,029 Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654
R/T M M M	Resource Description Direct Labor Field Supervision Equipment	\$ \$: \$6	\$0 ce Quantity 7,691,373 5,441,915 6,247,749	Equipment \$0  Markup 25% 25% 2%	Uncl		\$0 10.9% of cost 5.0% 3.5% 0.3%	\$4,228,029 Resource Cost \$1,922,843 \$1,360,479 \$124,955
R/T M M M M	Resource Description Direct Labor Field Supervision Equipment Material Subcontract	\$ \$: \$6	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702	Equipment \$0  Markup 25% 25% 2% 2% 5%	Uncl		\$0 10.9% of cost 5.0% 3.5% 0.3% 0.2%	\$4,228,029 Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654
R/T M M M M M	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract	\$ \$: \$6	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702	Equipment \$0  Markup 25% 25% 2% 2% 5%	Uncl		\$0 10.9% of cost 5.0% 3.5% 0.3% 0.2%	\$4,228,029 Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654
R/T M M M M M	Resource Description Direct Labor Field Supervision Equipment Material Subcontract	\$ \$: \$6	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955	LS Equipment \$0  Markup 25% 25% 2% 2% 5%		\$4,228,029	\$0 10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098
R/T M M M M M	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges	\$ \$: \$6	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955	Equipment \$0  Markup  25% 25% 2% 2% 5%  Item Quantity/Unit LS Equipment		\$4,228,029	\$0 10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098
R/T M M M M M	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive)	\$ \$ \$ \$1	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955	Equipment \$0  Markup 25% 25% 2% 5% 5%  Item Quantity/Unit LS Equipment \$0	Uncl	\$4,228,029  assified Material \$240,385	\$0 10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9% Subcontract \$0	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098
R/T M M M M M	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Securi	\$ \$; \$ \$1.4 ties ROR	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955 Labor \$0 Cost of cap	LS Equipment \$0  Markup  25% 25% 29% 29% 5%  Item Quantity/Unit LS Equipment \$0  sital Progress p	Uncl	\$4,228,029  lassified Material \$240,385	\$0  10.9% of cost  5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385
R/T M M M M M No.	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Security 30 days  Status 1.0	\$ \$ \$ \$14 ties ROR	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955 Labor \$0 Cost of cap 4.25%	LS Equipment \$0  Markup 25% 25% 2% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30	Uncl ayments days	\$4,228,029  Passified Material \$240,385  10% reduced	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earn	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385
R/T M M M M M No.	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Securi	\$ \$ \$ \$14 ties ROR	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955 Labor \$0 Cost of cap 4.25%	LS Equipment \$0  Markup 25% 25% 2% 2% 5% 5%   Item Quantity/Unit LS Equipment \$0 and the state of the state o	Uncl ayments days vork to	\$4,228,029  Passified Material \$240,385  10% reduced	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earn	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385
R/T M M M M M No. 052	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Security 100 100 100 100 100 100 100 100 100 100	\$ \$ \$ \$1 ties ROR % lapsed fro	\$0 ce Quantity 7,691,373 5,441,915 3,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% cm expendit	Equipment \$0  Markup 25% 25% 2% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average	Uncl ayments days vork to Project	sassified Material \$240,385  10% reduced frevenue received free	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earn	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  med value ints.
R/T M M M M M No. 052	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Security 30 days 1.0 Description	\$ \$ \$1 \$14 ties ROR % lapsed fro	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit	Equipment \$0  Markup 25% 25% 2% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period	Uncl ayments days vork to Project Allocatio	assified Material \$240,385  10% reduced free revenue received free no Notes	\$0  10.9% of cost  5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earn progress payments	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  ned value nts.  Resource Cost
R/T M M M M M No. 052	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Security 100 100 100 100 100 100 100 100 100 100	\$ \$ \$1 \$14 ties ROR % lapsed fro	\$0 ce Quantity 7,691,373 5,441,915 3,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% cm expendit	Equipment \$0  Markup 25% 25% 2% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average	Uncl ayments days vork to Project Allocatio	sassified Material \$240,385  10% reduced frevenue received free	\$0  10.9% of cost  5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earn progress payments	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  med value ints.
R/T M M M M M No. 052	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Security 30 days 1.0 Description	\$ \$ \$1 \$14 ties ROR % lapsed from Resour \$1	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit	Equipment \$0  Markup 25% 25% 2% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period	Uncl ayments days vork to Project Allocation 100%	assified Material \$240,385  10% reduced free revenue received free no Notes	\$0  10.9% of cost  5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earn progress paymen	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  ned value nts.  Resource Cost
R/T M M M M M M O O S 2 O O O O O O O O O O O O O O O O	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Securition 30 days 1.0 culate finance charges on the time expeription  Direct labor payroll/add-ons	\$ \$ \$1 \$14 ties ROR % lapsed from Resour \$1	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit ce Quantity 3,590,185	Equipment \$0  Markup 25% 25% 25% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period 43 days	Uncl ayments days vork to Project Allocation 100%	assified Material \$240,385  10% reduced freevenue received free  Notes based on 4 payroll	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earr om progress paymen  periods/mo periods/mo	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  ned value nts.  Resource Cost \$33,537
R/T M M M M M M M O 052	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Securit 30 days 1.0 culate finance charges on the time expeription  Direct labor payroll/add-ons Field supervision payroll/add-ons Material purchases/tax	\$ \$ \$1. \$1. ties ROR % lapsed from Resour \$ \$ \$ \$	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit ce Quantity 6,590,185 5,441,915 3,149,125	Equipment \$0  Markup  25% 25% 25% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period 43 days 38 days 30 days	Uncl ayments days vork to Project Allocation 100% 100%	assified Material \$240,385  10% reduced freevenue received free  Notes based on 4 payroll based on 2 payroll of cost items 001-0	\$0  10.9% of cost  5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earr om progress payment on periods/mo periods/mo 49	#4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  med value ints.  Resource Cost \$33,537 \$24,466 \$11,172
R/T M M M M M M O 052	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Securition 30 days 1.0 culate finance charges on the time expeription  Direct labor payroll/add-ons Field supervision payroll/add-ons Material purchases/tax First retention release	\$ \$ \$1. \$1. ties ROR % lapsed from Resour \$ \$ \$ \$ \$	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit ce Quantity 3,590,185 5,441,915 3,149,125 1,606,639	Equipment \$0  Markup 25% 25% 2% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period 43 days 38 days 30 days 28 mo	Uncl ayments days vork to Project Allocation 100% 100% 100%	assified Material \$240,385  10% reduced freed revenue received freed based on 4 payroll based on 2 payroll of cost items 001-0 cash; 100% securit	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earr om progress paymer  periods/mo periods/mo 49 ies; net 3.3% rate	Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  ned value nts.  Resource Cost \$33,537 \$24,466 \$11,172 \$104,787
R/T M M M M M M M O 052	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Securit 30 days 1.0 culate finance charges on the time expeription  Direct labor payroll/add-ons Field supervision payroll/add-ons Material purchases/tax	\$ \$ \$1. \$1. ties ROR % lapsed from Resour \$ \$ \$ \$ \$	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit ce Quantity 6,590,185 5,441,915 3,149,125	Equipment \$0  Markup  25% 25% 25% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period 43 days 38 days 30 days	Uncl ayments days vork to Project Allocation 100% 100% 100%	assified Material \$240,385  10% reduced freevenue received free  Notes based on 4 payroll based on 2 payroll of cost items 001-0	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earr om progress paymer  periods/mo periods/mo 49 ies; net 3.3% rate	\$4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  ned value nts.  Resource Cost \$33,537 \$24,466 \$11,172
R/T M M M M M M O 052	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Securition 30 days 1.0 culate finance charges on the time expeription  Direct labor payroll/add-ons Field supervision payroll/add-ons Material purchases/tax First retention release	\$ \$ \$1. \$1. ties ROR % lapsed from Resour \$ \$ \$ \$ \$	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit ce Quantity 3,590,185 5,441,915 3,149,125 1,606,639	Equipment \$0  Markup 25% 25% 2% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period 43 days 38 days 30 days 28 mo	Uncl ayments days vork to Project Allocation 100% 100% 100%	assified Material \$240,385  10% reduced freed revenue received freed based on 4 payroll based on 2 payroll of cost items 001-0 cash; 100% securit	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earr om progress paymer  periods/mo periods/mo 49 ies; net 3.3% rate	Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  ned value nts.  Resource Cost \$33,537 \$24,466 \$11,172 \$104,787
No. O52	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Securit 30 days 1.0 culate finance charges on the time expeription  Direct labor payroll/add-ons Field supervision payroll/add-ons Material purchases/tax First retention release Last retention release	\$ \$ \$1. \$1. ties ROR % lapsed from Resour \$ \$ \$ \$ \$	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit ce Quantity 3,590,185 5,441,915 3,149,125 1,606,639	Equipment \$0  Markup 25% 25% 2% 5% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period 43 days 38 days 30 days 28 mo 41 mo	Uncl ayments days vork to Project Allocation 100% 100% 100%	assified Material \$240,385  10% reduced freed revenue received freed based on 4 payroll based on 2 payroll of cost items 001-0 cash; 100% securit	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earr om progress paymer  periods/mo periods/mo 49 ies; net 3.3% rate	Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  ned value nts.  Resource Cost \$33,537 \$24,466 \$11,172 \$104,787
No. O52	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices 30 days 1.0 Evaluate finance charges on the time experience to the payroll/add-ons Field supervision payroll/add-ons Material purchases/tax First retention release Last retention release  Item Description	\$ \$ \$1. \$1. ties ROR % lapsed from Resour \$ \$ \$ \$ \$	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit ce Quantity 3,590,185 5,441,915 3,149,125 1,606,639 \$535,546	Equipment \$0  Markup 25% 25% 25% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period 43 days 38 days 30 days 28 mo 41 mo  Item Quantity/Unit LS	uncl ayments days vork to Project Allocation 100% 100% 0%	assified Material \$240,385  10% reduced freevenue received free  Notes based on 4 payroll based on 2 payroll of cost items 001-0 cash; 100% securit cash; 100% securit	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earr om progress paymer  periods/mo periods/mo 49 ies; net 3.3% rate ies; net 3.3% rate	#4,228,029  Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  med value ints.  Resource Cost \$33,537 \$24,466 \$11,172 \$104,787 \$66,423
No. O52	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Security 30 days 1.0 culate finance charges on the time experience to the company of the company o	\$ \$ \$1. \$1. ties ROR % lapsed from Resour \$ \$ \$ \$ \$	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% cm expendit ce Quantity 5,590,185 5,441,915 3,149,125 1,606,639 \$535,546	Equipment \$0  Markup  25% 25% 2% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period  43 days 38 days 30 days 28 mo 41 mo  Item Quantity/Unit LS Equipment	uncl ayments days vork to Project Allocation 100% 100% 0%	assified Material \$240,385  10% reduced from Notes based on 4 payroll based on 2 payroll of cost items 001-0 cash; 100% securit cash; 100% securit	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earr om progress paymer  periods/mo periods/mo periods/mo 49 ies; net 3.3% rate ies; net 3.3% rate	Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  med value ints.  Resource Cost \$33,537 \$24,466 \$11,172 \$104,787 \$66,423
R/T   M   M   M   M   M   M   M   M   M	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Security 30 days 1.0 Evaluate finance charges on the time expectation Direct labor payroll/add-ons Field supervision payroll/add-ons Material purchases/tax First retention release Last retention release Item Description Contractor Contingency Status (Additive)	\$ \$ \$ \$1.4 ties ROR % lapsed from Resour \$ \$ \$ \$ \$	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit ce Quantity 5,590,185 5,441,915 3,149,125 1,606,639 \$535,546  Labor \$0	Equipment \$0  Markup 25% 25% 25% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period 43 days 38 days 30 days 28 mo 41 mo  Item Quantity/Unit LS Equipment \$0	Uncl ayments days vork to Project Allocation 100% 100% 0% Uncl	assified Material \$240,385  10% reduced freevenue received free based on 4 payroll based on 2 payroll of cost items 001-0 cash; 100% securit cash; 100% securit cash; 1793	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earr om progress paymer  periods/mo periods/mo periods/mo 49 ies; net 3.3% rate ies; net 3.3% rate Subcontract \$0	Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098 \$1 ttem Cost \$240,385 med value ints.  Resource Cost \$33,537 \$24,466 \$11,172 \$104,787 \$66,423
R/T   M   M   M   M   M   M   M   M   M	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Securion Sudays 1.0 Evaluate finance charges on the time expectation Direct labor payroll/add-ons Field supervision payroll/add-ons Material purchases/tax First retention release Last retention release Item Description Contractor Contingency  Status (Additive)  Resource Description	\$ \$ \$14 ties ROR % lapsed from Resour \$ \$ \$ \$	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% cm expendit ce Quantity 3,590,185 5,441,915 3,149,125 1,606,639 \$535,546  Labor \$0 ce Qty/Unit	Equipment \$0  Markup  25% 25% 2% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period  43 days 38 days 30 days 28 mo 41 mo  Item Quantity/Unit LS Equipment	Uncl ayments days vork to Project Allocation 100% 100% 0% Uncl	assified Material \$240,385  10% reduced from Notes based on 4 payroll based on 2 payroll of cost items 001-0 cash; 100% securit cash; 100% securit cash; 457,793  Resource Unit Cost	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earn om progress paymen of periods/mo periods/mo periods/mo periods/mo sies; net 3.3% rate ies; net 3.3% rate  Subcontract \$0  Resource Quantity	Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098  Item Cost \$240,385  med value ints.  Resource Cost \$333,537 \$24,466 \$11,172 \$104,787 \$66,423  Item Cost \$457,793  Resource Cost
R/T   M   M   M   M   M   M   M   M   M	Resource Description  Direct Labor Field Supervision Equipment Material Subcontract  Item Description Financing Charges  Status (Additive) Invoices Security 30 days 1.0 Evaluate finance charges on the time expectation Direct labor payroll/add-ons Field supervision payroll/add-ons Material purchases/tax First retention release Last retention release Item Description Contractor Contingency Status (Additive)	\$ \$ \$14 ties ROR % lapsed from Resour \$ \$ \$ \$	\$0 ce Quantity 7,691,373 5,441,915 6,247,749 4,732,702 4,501,955  Labor \$0 Cost of cap 4.25% om expendit ce Quantity 5,590,185 5,441,915 3,149,125 1,606,639 \$535,546  Labor \$0	Equipment \$0  Markup 25% 25% 25% 2% 5%  Item Quantity/Unit LS Equipment \$0  Progress p 30  tures to perform the v Average Financing Period 43 days 38 days 30 days 28 mo 41 mo  Item Quantity/Unit LS Equipment \$0	Uncl ayments days vork to Project Allocation 100% 100% 0% Uncl	assified Material \$240,385  10% reduced freevenue received free based on 4 payroll based on 2 payroll of cost items 001-0 cash; 100% securit cash; 100% securit cash; 1793	\$0  10.9% of cost 5.0% 3.5% 0.3% 0.2% 1.9%  Subcontract \$0  Retained earnings to 5% at 75% of earr om progress paymer  periods/mo periods/mo periods/mo 49 ies; net 3.3% rate ies; net 3.3% rate Subcontract \$0	Resource Cost \$1,922,843 \$1,360,479 \$124,955 \$94,654 \$725,098 \$1 ttem Cost \$240,385 med value ints.  Resource Cost \$33,537 \$24,466 \$11,172 \$104,787 \$66,423



No.	Item Description		Item Quantity/Unit									
054	Escalation-excluded from estimate	1	LS									
	N Status (Non-Additive)	Labor	Equipment	Material	Subcontract	Item Cost						
	Escalation up to June 1, 2023 NTP	\$867,536	\$412,703	\$210,610	\$957,945	\$2,448,793						
	Escalation after NTP	\$542,716	\$274,626	\$155,919	\$785,466	\$1,758,726						
	Total Escalation	\$1,410,252	\$687,329	\$366,528	\$1,743,410	\$4,207,519						
Esca	Escalation is applied from the base dates given below to NTP, and from there is calculated to the midpoint of each schedule activity for											
dire	ct costs and on a yearly basis over the	project duration for	or indirect costs. The	e average composite ann	ual escalation rate is	3.3%.						
R/T	Resource Description	Unescalated Cost	Escalation Rate/Year	Compounding Periods	Base Date	<b>Escalated Cost</b>						
L	Direct Labor	\$7,691,373	3.3%	1 (annually)	3/25/2021	\$812,188						
L	Field Supervision	\$5,441,915	3.3%	1 (annually)	3/25/2021	\$598,064						
Ε	Equipment	\$6,247,749	3.3%	1 (annually)	3/25/2021	\$687,329						
M	Material (including unclassified)	\$8,960,731	3.3%	4 (quarterly)	3/25/2021	\$366,528						
S	Subcontracts	\$14,501,955	3.3%	1 (annually)	3/25/2021	\$1,743,410						
No.	Item Description		Item Quantity/Unit									
055	5 Owner Contingency		LS									
		Labor	Equipment	Unclassified Material	Subcontract	Item Cost						
	Status (Additive)	\$0	\$0	\$14,995,300	\$0	\$14,995,300						
C/T	Type of Contingency	·	Amount	Contingen	cy Level	Resource Cost						
Т	Owner contingency		\$42,843,722	35.0% of to	otal	\$14,995,300						



Project Job No. Estimator Rev Computed on 6183.0 RLR/BM 7/23/2021 Mt Comfort Road Town of McCordsville, IN 0 11:02 AM

**Dual Underpass Construction - 10% Estimate** 

#### **RESOURCE RATE AND USAGE DETAIL**

DIRECT LABOR									
Basis: Prevailing Wage Rates - Hand	cock Coun	tv 3/2/20	21						
Employer Insurance Add-ons	Ind. Rate	•		Momo: E	stimate Total	Employer Payroll Tax A	dd one	Tax Rate	Annual Inc. Cap
Worker Compensation	15.0%	Exp. Mod	15.0%		635,301	Fed. Social Securit		6.200%	\$137,700
Commercial General Liability	10.0%		10.0%		423,534	Fed. Medicaid Tax	утах	1.450%	\$137,700
CIGA/Terrorism/Other Add-ons	1.0%		1.0%				at Tay	0.600%	<b>#7 000</b>
CIGA/Terrorism/Other Add-ons	1.0%		1.0%		\$42,353	Fed. Unemployment			\$7,000 \$7,000
0 1						Unemployment Tax	(	2.900%	\$7,000
	Rate					SDI		0.010%	\$122,909
General/Saturday overtime	1.5x						400.00		
Sunday/Holiday overtime	2.0x	4		•	405 607	Weighted average:		mhr Base+Va	
Misc. General overtime 2.0%	built in ra Hourly	tes Hourly			105,627 Ins &	Misc.	\$28.94 / Adjusted	mhr Fringes/In	is/Taxes
Code Resource/Group Description	Base+Vac	Fringes		Daily tance/Trave			Rate/mhr	Total mhrs	Total Cost
Laborers	Daso Tas	goo	Cubolo	tarioo, rrave	, ranco	33 31	710107771111	10101111110	1010.0001
Ifm Labor FM	\$28.10	\$16.17			\$9.58	\$0.80	\$54.65	13,408	\$732,707
lab General Labor (Grp 1)		\$16.17			\$8.91	\$0.76	\$51.94	34,890	\$1,812,198
flag Flagman (Grp 1)		\$16.17			\$8.91	\$0.76	\$51.94	6,924	\$359,635
Operating Engineers	Ψ20.10	ψ10.17			ψ0.01	φο.νο	ψο 1.04	0,024	φοσο,σσσ
ofm Operating Engineer	\$34.05	\$17.50			\$11.58	\$0.92	\$64.06	1,056	\$67,643
c100+ Crane oper. >100t (Grp 11)		\$17.50			\$11.58	\$0.92	\$64.06	220	\$14,092
c45- Crane oper. <45t (Grp 9)		\$17.50			\$11.58	\$0.92	\$64.06	10,016	\$641,584
eo3+ Excavator >3.5cy (Grp 8)		\$17.50			\$11.58	\$0.92	\$64.06	3,008	\$192,680
eo3- Excavator <3.5cy (Grp 5)		\$17.50			\$11.58	\$0.92	\$64.06	2,212	\$141,692
lo4+ Loader oper. >4cy (Grp 10)		\$17.50			\$11.58	\$0.92	\$64.06	6,604	\$423,025
lo4- Loader oper. <4cy (Grp 5)		\$17.50			\$11.58	\$0.92	\$64.06	1,156	\$74,049
mw HD Mech/Welder (Grp 1)		\$17.50			\$11.00	\$0.89	\$61.73	1,728	\$106,666
conc Concrete equip.oper. (Grp 2)		\$17.50			\$11.00	\$0.89	\$61.73	1,100	\$67,901
drill Drill operator (Grp 6)		\$17.50			\$11.58	\$0.92	\$64.06	2,944	\$188,581
Tunnel Labors/Operators	ψ04.00	ψ17.00			Ψ11.00	ψ0.02	ψ04.00	2,044	φ100,001
comp Compressorman (Grp 5)	\$34.05	\$17.50			\$11.58	\$0.92	\$64.06	6.644	\$425,587
Electricians	ψ04.00	ψ17.00			Ψ11.00	ψ0.02	ψ04.00	0,044	Ψ-120,001
efm Electrician FM	\$55.50	\$38.00			\$18.80	\$1.69	\$113.99	40	\$4.560
ejm Electrician JM		\$38.00			\$18.13	\$1.66	\$111.29	1,392	\$154,913
Carpenters	ψ00.00	ψου.σσ			Ψ10.10	ψ1.00	Ψ111.20	1,002	φ10-1,010
cfm Carpenter FM	\$37.35	\$24.40			\$12.69	\$1.12	\$75.56	1,580	\$119,385
cim Carpenter JM		\$24.40			\$12.02	\$1.08	\$72.85	10,920	\$795,557
Ironworkers	ψ00.00	Ψ24.40			Ψ12.02	Ψ1.00	Ψ12.00	10,320	ψ1 55,551
ifm Ironworker FM	\$35.70	\$23.10			\$12.17	\$1.06	\$72.12	1,780	\$128,378
ijm Ironworker JM		\$23.10			\$11.50	\$1.03	\$69.42	11,140	\$773,295
lp Labor premium	ψυυ.1 υ	Ψ23.10			ψ11.50	Overall average		of labor	\$394,219
Mobilization Labor	\$26.17	\$14.14		\$0.00	\$8.90	•	\$49.93	728	\$36,350
Demobilization Labor	\$27.78	•		\$0.00	\$9.45	\$0.72 \$0.77	\$53.00	692	\$36,676
Craft Labor Escalation	Ψ21.70	ψ10.01		ψ0.00		(excluded from esti		032	ψ50,070
Total Craft Labor	•	\$3.7	12 601	unescala	ted payroll	120,182			\$7,691,373



Employer Insurance Add-ons	Ind. Rate Exp. Mo	d Eff. Rate	Memo: Estimate Total	Permanent Employee Benefits	Rate	Applied to classifications
Workers' Compensation	1.8%	1.8%	\$73,623	Key empl. bonus plan	8.0%	KP
Commercial Gen'l Liability	5.0%	5.0%	\$204,509	Employee medical plan	10.0%	KP, EP, EL, NP, NL
				Retirement/Pension plan	5.0%	KP, EP, NP
				Non-exempt salaried OT	2.0%	NP, NL
Employer Payroll Tax Add-ons						
7.9% payroll tax rate based	on \$9,014/mmo	weighted b	ase salary.			

Total Field Supervisory Labor Classification Class Burden Key permanent employee ΚP 37.7% ΕP 29.7% Exempt permanent employee Exempt local hire employee EL 24.7% Non-exempt permanent employee NP 31.7% Non-exempt local hire employee NL 26.7%

Total mmos **Total Cost** Supervisory Salaries \$5,441,915

Supervisory Labor Escalation

Total Supervisory Labor \$598,064 (excluded from estimate)

\$4,090,188 unescalated payroll 454 mmos \$5,441,915



	PMENT (see Cost Item 044 for	r develop	oment of	•	•	,					
В	asis: COE Rates, Year 2018	_		Unit Co				•	neral Plant Mob/		
	Region 2	E	lectricity		/kWh		141,484			01,004	
	Fuel/Power Factor Normal		Diesel	\$3.30	U		252,518	•		33,311	
			Gas	\$2.90	•		42,530	•	\$12	23,338	
Code	Resource/Group Description	<u>Air Diesel</u> <u>Elec Gas</u>	HP/CFM	HPF	Equipment Value	Parts Cost/hr	Elec/Fuel Cost/hr	Ownership Cost/hr	Total Cost/hr	Total hrs	Total Cost
	Excavators/Muckers/TBMs										
he320	0 320 Excavator 43.8k/1.5cy	D	128	65	\$223,150	\$19.77	\$14.12	\$154.43	\$188.32	1,156	\$217,697
he330	SK330LC Exc 77.8/2.1cy	D	238	65	\$351,945	\$31.17	\$26.25	\$93.60	\$151.03	3,008	\$454,290
	Loaders										
L914	Wheel Loader Cat 914/1.7cy	D	89	65	\$120,000	\$10.37	\$9.82	\$12.37	\$32.56	7,760	\$252,659
	Lift Units										
hc40	Hydraulic Crane 40ton/105'	D	152	65	\$439,507	\$35.71	\$16.77	\$34.28	\$86.76	10,256	\$889,818
tc150	Truck Crane 150ton/260'	D	207	50	\$1,303,969	\$82.74	\$17.57	\$4,742	\$4,842.01	220	\$1,065,242
	Concrete Equipment							. ,			
vib2	Conc. vibrator, internal, 1.75"	Ε	3	65	\$1,191	\$1.11	\$2.00	\$16.08	\$19.19	400	\$7,676
sp2	Shotcrete pot Aliva, 2cy/hr	Ε	7	75	\$25,000	\$6.50	\$5.39	\$26.60	\$38.48	752	\$28,939
cb130	Conc. Pump, truck 130cy/hr	D	310	50	\$324,346	\$44.73	\$26.31	\$117.94	\$188.98	1,100	\$207,878
	Plant Equipment				, , , , ,	•	•	•	,	,	, , , , ,
cp12	Compressor, trailer 1200cfm	D	360	75	\$133,173	\$15.79	\$45.82	\$15.64	\$77.25	6,812	\$526,245
g10	Generator, trailer 10.0kW	D	23	65	\$9,884	\$1.09	\$2.54	\$1.74	\$5.37	6,812	\$36,569
lp6	Light Plant/Genset, 6kW, 4/10	D	12	85	\$12,491	\$4.57	\$1.73	\$2.21	\$8.51	20,376	\$173,359
we4	Welder 400A, trailer E	Ē	35	80	\$3,128	\$0.74	\$28.73	\$23.46	\$52.93	240	\$12,703
wtp	Water Treatment Plant	Ē	15	90	\$350,000	\$15.00	\$13.85	\$70.56	\$99.42	2,232	\$221,895
p205	Pump, trash 205gpm/100ft hea	Е	10	90	\$1,486	\$0.64	\$9.23	\$0.86	\$10.73	2,952	\$31,674
•	Utility Equipment				, ,	*	•	,	•	,	, - , -
ml30	Man-Lift 30' articulated boom	D	80	65	\$43,590	\$6.42	\$8.83	\$1.74	\$16.98	10,024	\$170,253
vib	Concrete vibrators	Ε	10	75	\$2,000	\$1.00	\$7.70	\$0.63	\$9.33	9,480	\$88,429
gp	Grout Plant, skid	Α	60	50	\$57,500	\$10.00	•	\$6.84	\$16.84	2,944	\$49,565
at	Air track 12' feed	Α	900	80	\$220,000	\$22.00		\$14.95	\$36.95	6,624	\$244,728
cssi	Cutting shield steering jacks	E	10	70	\$250,000		\$7.18	\$49.14	\$646.32	1,272	\$822,116
tjack	Thrust jack & frame				\$180,000		*****	\$39.06	\$439.06	1,152	\$505,800
,	ment Ownership (excludes \$2,6	86.111 c	omponar	nt sprea		•		,,,,,,,	*	.,	\$22,500
	ization Equipment	,				,				200	\$14,804
	bilization Equipment									346	\$25,611
	nead Maintenance/Service Equi	oment								6,619	\$177,300
	ment Escalation				9	687.329	(exclude	d from esti	imate)	5,510	Ţ,coo
_440						uipment	, = , , = , = , = ,	102,737			\$6,247,749



B 4	A 7	_		ıc

				Add Tax	Unit Cost		
Code	Resource/Group Description	Unit Cost/Measure	Notes	(-/N)?	F.O.B Job	Total Quantity	Total Cost
	Add-ons						
tax	Sales Tax	7.000%	Memo: Tax on Material	\$49,782			
			quipment Purchases/Rentals	\$0			
sts	Small tools and supplies	\$3.00 mhr	(5.5% of raw direct labor	rate)	\$3.00	120,182	\$360,546
aggc	Coarse aggregate	\$22.00 ton		n	\$22.00	5,400	\$118,800
сЗ	Concrete, 3000psi mix	\$124.50 cy		n	\$124.50	370	\$46,065
c4	Concrete, 4000psi mix	\$128.50 cy		n	\$128.50	740	\$95,090
c5	Concrete, 5000psi mix	\$135.50 cy		n	\$135.50	3,485	\$472,150
XC	Concrete consumables	\$10.00 cy			\$10.70	3,364	\$35,989
lumb	Lumber for lagging/forms	\$2.20 bf			\$2.35	103,275	\$243,109
ply1	Plywood MDO 1"	\$2.30 sf			\$2.46	68,850	\$169,440
ff	Form fasteners	\$0.30 sf			\$0.32	68,850	\$22,101
foil	Form oil	\$0.15 sf			\$0.16	68,850	\$11,050
cure	Curing compound	\$0.02 sf			\$0.02	68,850	\$1,473
xf	Misc form supplies	\$0.40 sf			\$0.43	68,850	\$29,468
rp	Reinforcing steel, plain	\$0.49 lb		n	\$0.49	433,080	\$212,209
xr	Reinforcing steel mat'l	\$0.10 lb		n	\$0.10	359,220	\$35,922
stl12	Steel shapes	\$0.60 lb	Skyline Steel		\$0.64	115,200	\$73,958
	Miscellaneous						
cs	Cement - sack	\$14.00 ea			\$14.98	926	\$13,871
mot	Maintenace of traffic mat'l	\$15,000 LS			\$16,050	2	\$32,100
shcrt	Shotcrete	\$160.00 cy		n	\$160.00	620	\$99,200
sn	Soil nials	\$219.00 ea		n	\$219.00	926	\$202,794
xmiso	: Miscellaneous material	\$1,000 lot			\$1,070	120	\$128,400
Equip	ment Ownership not in Direct Cos	st Materials and Taxes					\$12,500
Mobil	ization Freight and Materials						\$387,600
Demo	bilization Freight and Materials						\$32,475
	ral Plant Operation/Maintenance I	Materials					\$110,690
	nead Maintenance/Service Materia						\$202,124
Bond	s, Insurance, and Taxes not in Ge	eneral M (unclassified)					\$885,399
	actor Markup	(unclassified)					\$4,228,029
	icing Charges	(unclassified)					\$240,385
	actor Contingency	(unclassified)					\$457,793
	rial Escalation	()	\$366.528 (e)	xcluded from estir	mate)		Ţ , . <b>3 0</b>
			, , (		al Material		\$8,960,731

### **SUBCONTRACTS**

Code	Resource/Group Description	Unit Cost/Measure	Notes		Total Quantity	Total Cost
muck	Muck disposal	\$35.00 lcy		\$35.00	90,553	\$3,169,355
geos	Geotechnical Instr sub	\$120,000.00 LS	EMC2	\$120,000	1	\$120,000
util	Utility relocation	\$500,000.00 LS		\$500,000	1	\$500,000
jgm	Jet Grouting Mob	\$150,000.00 LS	Hayward Baker	\$150,000	2	\$300,000
jg	Jet Grouting	\$300.00 cy	Hayward Baker	\$300.00	296	\$88,800
land	Streetscaping	\$500,000.00 LS	-	\$500,000	3	\$1,500,000
roadN	NB Roadway Construction	\$2,430,000.00 LS		\$2,430,000	1	\$2,430,000
psta	Pump Station	\$330,000.00 LS		\$330,000	3	\$990,000
twm	SOE sub mob	\$100,000.00 LS		\$100,000	1	\$100,000
tws	SOE wall w/ steel	\$40.00 sf		\$40.00	16,000	\$640,000
roadB	Broadway Roadway Construct	\$1,360,000.00 LS		\$1,360,000	1	\$1,360,000
roadS	SB Roadway Construction	\$1,215,000.00 LS		\$1,215,000	1	\$1,215,000
20wm	Relocate 20" Water Main	\$500.00 If		\$500.00	3,000	\$1,500,000
csxgm	CSX Geotech Monitoring	\$2,000.00 sh		\$2,000	120	\$240,000
ains	Automated instrumentation	\$250,000.00 Is		\$250,000	1	\$250,000
csxfl	CSX Flagging	\$1,300.00 day		\$1,300	70	\$91,000
Genera	al Plant Operation/Maintenance	Subcontracts				\$7,800
Subco	ntract Escalation		\$1,743,410 (excluded from	m estimate)		
			To	tal Subcontract		\$14,501,955
		•	Unescalated C	onstruction Bid		\$42,843,722



#### **SUMMARY BY RESOURCE TYPE**

Cost Type	Labor	Equipment	Material	Subcontract	Total
Direct* Cost	\$7,618,346	\$6,007,534	\$2,399,477	\$14,494,155	\$30,519,512
Indirect* Cost	\$5,514,941	\$240,215	\$749,648	\$7,800	\$12.324.210
Indirect Cost (unclassified)	-	-	\$5,811,606	-	\$12,324,210
Owner Allowances	-	-	-	-	-
Escalation-excluded from estimate	-	-	-	-	-
Unescalated Construction Bid	\$13,133,288	\$6,247,749	\$8,960,731	\$14,501,955	\$42,843,722
Relative Direct* + Indirect* Costs	35%	17%	9%	39%	100% on \$37,032,116

#### **SUMMARY BY COST TYPE**

Unescalated Construction Bid	\$42.843.722		139.7%		
Owner Allowances	-				
Overhead/Profit	\$11,632,944	27.2%	37.9%	048 - 053	
Directs, Equipment, and Plant	\$30,673,002	71.6%	100.0%	001 - 044, 047 -	
Mobilization/Demobilization	\$537,776	1.3%	1.8%	045 - 046	
Cost Type	Total	% Total Estimate	and Plant Cost	Applicable Cost Items	
			% Direct, Equipment		

#### **UNESCALATED TIME-RELATED INDIRECT COST BREAKDOWN**

Cost Type	Average Cost/month	Exclude?	M
Lineal/Other Plant Equipment CFC	\$45 /mo		-
GP operation/maintenance	\$3,118 /mo		-
Weekend maintenance			bι
Field supervision	\$136,217 /mo		
OH maintenance/service	\$9,497 /mo		

Monthly costs include adjustments totalling 2.6% for:

- bonds, insurance, and taxes
- financing charges

but exclude contractor contingency

Total \$148,878 /mo (excluding markup) \$183,181 /mo (including markup)

#### **DISTRIBUTION OF PROJECT NON-WORKDAYS**

														Calendar	ıotai	
Type of non-workday	Jan	Feb	Mar	Ap	or	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Project	
Holiday		1	1	0	0	1	0	1	0	1	0	2	2	9	29	_
Inclement Weather Day		5	5	2	2	1	0	0	0	0	0	0	5	20	60	
Total		6	6	2	2	2	0	1	0	1	0	2	7	29	89	_

