CITY OF CHANDLER

CHANGE ORDER NO. 2

DATE 3/26/21

Change Order not valid until signed by both the City and the Contractor. Contractor's signature indicates agreement herewith, including any adjustments in the Contract Price or Contract Time.

Project Name: **Alma School Road Improvements (Pecos Road to Germann Road)**

Project No.: **ST2004.401**

User Dept.: Public Works & Utilities   NTP Date: August 17, 2020

TO: Sunland Asphalt & Construction, Inc. (CONTRACTOR)   **1625 E Northern Ave.** (Address)

Contractor must make the following changes to this contract: (Detail scope change (Exh. A) / cost breakdown (Exh. B), if needed)

Scope of work consists of installation of raised landscape median, curbing, gutters, sidewalks, American with Disabilities Act upgrades, traffic signal upgrades, streetlights, traffic signal interconnect, storm drainage, irrigation, and wet/dry utility improvements. The project is for the improvements on Alma School Road from north of Pecos to south of Germann road. The original contract was for Construction Management at Risk services for the improvements on Alma School Road from Willis Road to Kingbird Drive only. The change order is for Construction Management at Risk services for the remaining improvements on Alma School Road. The remaining improvements include the intersection at Pecos and Alma School Roads, with the north and southbound widening of three lanes and tapered down to two lanes north of the intersection. Alma School Road to the Loop 202 Santan Freeway will be improved by private developers.

OWNER NAME & DATE APPROVAL: Andy Goh, 03/26/21

Changes result in the following revised contract amount and time:

Original contract amount:	**$4,384,000**
Current contract amount, prior to this Change Order: (incl. previous Change Orders)	**$4,384,000**
Net change resulting from this Change Order: (if over $50,000 from contract amount previously approved by Council, Council approval is required)	**$1,981,059.65**
Revised contract amount, including this Change Order:	**$6,365,059.65**
Last contract amount approved by Council:	**$4,384,000**
Change Order % of last contract amount approved by Council: (if over 10% of previous contract amount approved by Council, Council approval is required)	**45%**

Contract time or completion date prior to this Change Order: (incl. previous Change Orders) 340 Days or ______ Date

Net change resulting from this Change Order: **60** Days

Revised contract time OR completion date: 400 or ______

SIGNATURE PAGE TO FOLLOW

THE ABOVE IS AGREED TO BY:		Days	Date
Sunland Asphalt & Construction, Inc. CONTRACTOR	Signature		4/2/21 Date
	reischen@sunlandasphalt.com Signer Email Address		

For Change Orders of $50,000 or more, or 10% or more of last contract amount approved by Council:

MAYOR	Date	Approved by Council on:	Date

Recommended By:

Approved as to Form (initials): ____________

Andrew Goh, CIP City Engineer | Date

City Attorney by: ____________

Attest: City Clerk: ____________ | Date

E-copy: Owner / Project Mgr. / Orig.- City Clerk

SUNLAND ASPHALT

GMP - *CONFIDENTIAL*

Construction Manager At Risk:
Alma School Road Improvements
Pecos Road to Fairview Street
Project No. ST2004.403

Chandler • Arizona

GMP TABLE

CM@RISK GMP SUMMARY

SUNLAND ASPHALT

Project Name: Alma School Road Improvements

Project Location: Pecos Road to Fairview Street

City of Chandler Project No.: ST 2004.403

Date: 3/19/2021

	Percentage	Amount
A. Direct Costs		
A1 Direct Cost		$1,503,814.66
A2 Approved Allowance		
	TOTAL DIRECT COSTS:	**$1,503,814.66**
B. General Conditions or Direct Costs only		$0.00
	SUBTOTAL 1 (Cost of the Work):	**$1,503,814.66**
C. CM@Risk's Fee on Cost of Work only	8.00%	**$120,305.17**
	SUBTOTAL 2:	**$1,624,119.83**
D. Bonds and Insurance Allowances		
D1 Bonds	1.00%	**$16,241.20**
D2 Insurance	0.50%	**$8,120.60**
	TOTAL BONDS & INSURANCE ALLOWANCE:	**$24,361.80**
	SUBTOTAL 3:	**$1,648,481.63**
E. Sales Tax		
E1 Sales Tax	5.07%	**$83,578.02**
E2 Tax Credits		
	TOTAL SALES TAX:	**$83,578.02**
	TOTAL GMP PROPOSAL:	**$1,732,059.65**
	ALLOWANCES:	**$249,000.00**
	TOTAL GMP PROPOSAL + ALLOWANCES:	**$1,981,059.65**

<u>Establishment of Values:</u>

a. Direct Costs and Allowances to be submitted with GMP Proposal.

b. General Conditions Cost (B) to be established in Baseline Cost Model.

c. CM@Risk Fee as set forth in Section 3.7.3 of this Contract

CONSTRUCTION COST SUMMARY

ALMA SCHOOL ROAD IMPROVEMENTS
PECOS ROAD TO FAIRVIEW STREET
CITY OF CHANDLER PROJECT NO: ST2004.403
SUMMARY OF DIRECT COSTS

ITEM #	DESCRIPTION	QTY	UM	UNIT PRICE	TOTAL PRICE
0.5	QUALITY CONTROL	1	LS	$19,450.00	$19,450.00
1	CONSTRUCTION SURVEYING AND LAYOUT	1	LS	$18,300.00	$18,300.00
2	EROSION CONTROL (SWPPP, INSTALLATION, MAINTENANCE, AND REMOVAL)	1	LS	$41,055.00	$41,055.00
3	MOBILIZATION/DEMOBILIZATION	1	LS	$63,479.32	$63,479.32
4	CLEARING AND GRUBBING	1	LS	$17,257.03	$17,257.03
5	REMOVAL TREE, DIAMETER > 12 IN	26	EACH	$784.02	$20,384.52
6	SUBGRADE PREPARATION	3059	SY	$46.52	$142,304.68
7	AGGREGATE BASE (12")	3059	SY	$27.92	$85,407.28
8	ASPHALTIC CONCRETE PAVEMENT (2 IN SURFACE COURSE, A-12.5 EVAC)	3059	SY	$16.25	$49,708.75
9	ASPHALTIC CONCRETE PAVEMENT (3 IN BASE COURSE, A-19 EVAC)	3059	SY	$19.97	$61,088.23
10	BITUMINOUS TACK COAT SS-1H, DILUTED	3059	SY	$2.09	$6,393.31
11	FOG SEAL/SURFACE SEAL	12787	SY	$1.28	$16,367.36
11.5	CRACK SEAL	5000	LF	$1.50	$7,500.00
12	SINGLE CURB, TYPE A, MAG DET 222	2185	LF	$26.37	$57,618.45
13	VERTICAL CURB & GUTTER, TYPE A, MAG DET 220-1	843	LF	$20.90	$17,618.70
14	CONSTRUCT CONCRETE SIDEWALK PER MAD STD DET 230	5011	SF	$7.02	$35,177.22
15	CONSTRUCT DUAL RAMP PER COC DET C-258	2	EACH	$2,822.08	$5,644.16
16	CONSTRUCT SINGLE RAMP PER COC DET C-258	2	EACH	$2,834.58	$5,669.16
17	CONSTRUCT CONCRETE BUS BAY AND SHELTER PAD PER COC DET C-230	1	EACH	$26,507.92	$26,507.92
18	CONSTRUCT CONCRETE VALLEY GUTTER PEP MAG STD DETAIL 240 (MODIFIED 3')	254	SF	$36.70	$9,321.80
19	CONSTRUCT DRAINAGE SCUPPER PER COC DET C-500. REUSE EXISTING RIP RAP AND SPLASH PAD	4	EACH	$7,919.28	$31,677.12
20	MEDIAN NOSE PER, COC DET C-225 (PAINTED YELLOW)	41	SF	$59.17	$2,425.97
21	MEDIAN PAVERS PER COC DET C-225	1504	SF	$9.11	$13,701.44
22	ADJUST MANHOLE FRAME & COVER, MAG DET 422	2	EACH	$850.00	$1,700.00
23	ADJUST VALVE BOX & COVER, MAG DET 391-1 AND COC DET C-307	3	EACH	$750.00	$2,250.00
24	CUT EXISTING WATER LINE AND INSTALL NEW VALVE & VALVE BOX PER MAG DETAILS	1	EACH	$5,345.53	$5,345.53
25	CONNECT NEW 6" DIP AT EXISTING FIRE HYDRANT	2	EACH	$757.95	$1,515.90
26	INSTALL 6" DIP	26	LF	$208.96	$5,432.96
27	INSTALL 6" DIP BENDS	2	EACH	$1,052.01	$2,104.02
28	FURNISH & INSTALL NEW FIRE HYDRANT PER COC DET C-303	3	EACH	$9,136.36	$27,409.08
29	2" MILL EXISTING ASPHALTIC CONCRETE PAVEMENT	448	SY	$17.25	$7,728.00
30	REMOVE EXISTING CONCRETE CURB	3507	LF	$8.05	$28,231.35
31	REMOVE EXISTING CONCRETE SIDEWALK AND CONCRETE RAMPS	6713	SF	$2.64	$17,722.32
32	REMOVE LIGHT POLE FOUNDATIONS AND SALVAGE STREETLIGHT POLES/EQUIPMENT	4	EACH	$1,660.31	$6,641.24
33	REMOVE AND SALVAGE EXISTING FIRE HYDRANT	3	EACH	$1,291.51	$3,874.53
34	REMOVE EXISTING CONCRETE DRAINAGE SCUPPER	4	EACH	$2,799.58	$11,198.32
35	REMOVE EXISTING BUS BAY AND SHELTER PAD CONCRETE	1206	SF	$7.56	$9,117.36
36	REMOVE EXISTING CONCRETE VALLEY GUTTER	391	SF	$7.35	$2,873.85
37	REMOVE AND REINSTALL SIGN	1	EACH	$350.00	$350.00
38	UNIFORMED OFF-DUTY LAW ENFORCEMENT OFFICER	240	HR	$75.00	$18,000.00
39	LANDSCAPE ESTABLISHMENT (90 DAYS)	1	LS	$6,000.00	$6,000.00
40	SHRUB – 5 GAL, GROUNDCOVER ACCENT (BUSH MORNING GLORY)	174	EACH	$30.00	$5,220.00
41	TREE – 48 IN BOX, 3 IN CAL MIN	16	EACH	$1,450.00	$23,200.00
42	DECOMPOSED GRANITE, 1 ¼ IN SCREENED, 2.5" THICK (MATCH EXISTING COLOR)	7800	SF	$1.40	$10,920.00
43	4 IN IRRIGATION PIPE SLEEVE (SCH. 40 PVC)	600	LF	$57.00	$34,200.00

ALMA SCHOOL ROAD IMPROVEMENTS
PECOS ROAD TO FAIRVIEW STREET
CITY OF CHANDLER PROJECT NO: ST2004.403
SUMMARY OF DIRECT COSTS

ITEM #	DESCRIPTION	QTY	UM	UNIT PRICE	TOTAL PRICE
44	PVC IRRIGATION PIPE ¾ IN (SCH.40 PVC)	1400	LF	$3.00	$4,200.00
45	PVC IRRIGATION PIPE 1 IN (SCH. 40 PVC)	450	LF	$3.00	$1,350.00
46	PVC IRRIGATION PIPE 1.5" IN (SCH. 40 PVC)	100	LF	$10.00	$1,000.00
47	PRESSURE REGULATOR (SENNIGER 30 PSI)	2	EACH	$300.00	$600.00
48	CONTROLLER, AUTOMATIC (6 STA) (HUNTER XCH BATTERY)	1	EACH	$6,000.00	$6,000.00
49	BALL VALVE 1.5" BRASS	2	EACH	$500.00	$1,000.00
50	1 IN REMOTE CONTROL VALVE, ELECTRIC (HUNTER ICV SERIES)	2	EACH	$500.00	$1,000.00
51	FLUSH CAP ASSEMBLY (1/2")	8	EACH	$50.00	$400.00
52	SINGLE OUTLET EMITTER ASSEMBLY	174	EACH	$12.00	$2,088.00
53	MULTI OUTLET EMITTER ASSEMBLY (6 PORT)	32	EACH	$60.00	$1,920.00
54	REMOVE EXISTING PAVEMENT MARKINGS	1	LS	$4,500.00	$4,500.00
55	4 IN WHITE TRAFFIC PAINT STRIPE	10785	LF	$0.80	$8,628.00
56	4 IN WHITE THERMOPLASTIC TRAFFIC STRIPE	3387	LF	$0.64	$2,167.68
57	4 IN YELLOW TRAFFIC PAINT STRIPE	4305	LF	$0.90	$3,874.50
58	PREFORMED SYMBOL BIKE LANE MARKING SET	6	EACH	$245.00	$1,470.00
59	THERMOPLASTIC/PREFORMED SYMBOL LEFT TURN ARROW	4	EACH	$350.00	$1,400.00
60	THERMOPLASTIC/PREFORMED SYMBOL RIGHT TURN ARROW	2	EACH	$195.00	$390.00
61	PAVEMENT MARKER, RAISED TYPE G	150	EACH	$3.50	$525.00
62	PERFORATED SIGN POST	14	LF	$25.00	$350.00
63	PERFORATED SIGN POST FOUNDATION (COMPLETE)	2	EACH	$175.00	$350.00
64	REPLACE EXISTING NO.9 PULL BOX LID WITH TORSION ASSIST SPRING LID.	2	EACH	$3,169.00	$6,338.00
65	APS LIGHTING PULL BOX (COTRACTOR SUPPLIED AND INSTALLED) (NO. 3 ½) (SL-14A & SL-14C)	1	EACH	$535.00	$535.00
66	SCH. 40 PVC ELECTRICAL CONDUIT, 1 IN (BETWEEN PULL BOX & STREET LIGHT POLE)	45	LF	$32.50	$1,462.50
67	SCH. 40 PVC ELECTRICAL CONDUIT, 2.5" IN (BETWEEN STREET LIGHT POLES)	275	LF	$25.00	$6,875.00
68	REMOVE AND RELOCATE EXISTING VIDEO DETECTION CAMERA AND LUMINAIRE INSTALL NEW VIDEO DETECTION CAMERA AND EXISTING LUMINAIRE ON NEW MAST ARM	2	EACH	$14,875.00	$29,750.00
69	REMOVE EXISTING VIDEO DETECTION CAMERA AND INSTALL NEW VIDEO DETECTION CAMERA AND VIDEO DETECTION CABLES	2	EACH	$14,525.00	$29,050.00
70	TRAFFIC SIGNAL (RELOCATE EXISTING SIGNAL HEAD)	8	EACH	$215.00	$1,720.00
71	INSTALL NEW PEDESTRIAN PUSH BUTTON AND PEDISTAL	2	EACH	$2,082.00	$4,164.00
72	REMOVE AND RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD, PEDESTRIAN PUSH BUTTON, DETECTOR,	2	EACH	$1,815.00	$3,630.00
73	SCHEDULE 40 2" CONDUIT FOR SIGNAL IMPROVEMENTS	100	LF	$26.00	$2,600.00
74	SCHEDULE 40 4" CONDUIT FOR SIGNAL IMPROVEMENTS	320	LF	$88.00	$28,160.00
75	INSTALL NEW NO. 7 PULL BOX FOR SIGNAL	1	EACH	$898.00	$898.00
76	FURNISH AND INSTALL NEW 55' SIGNAL MAST ARM	1	EACH	$8,315.00	$8,315.00
77	RELOCATE EXISTING SIGNAL CABLE FOR MAST ARM AND PEDESTRIAN PEDISTALS INSIDE NEW 4" CONDUIT. RE-UTILIZE EXISTING NO. 7 PULL BOX AS IDENTIFIED IN THE PLANS	140	LF	$8.50	$1,190.00
78	INSTALL NEW CCTV AXIS P5635-E MK II PAN-TILT -ZOOM (PTZ) CAMERA ON EXISTING LUMINAIRE POLE	1	EACH	$3,488.00	$3,488.00
79	DIRECTIONAL DRILL (CONDUITS RUNS FOR SIGNALS)	0	LF	$0.00	$0.00
80	SIGNAL CABLE (#14 CONDUCTOR 20-1 IMSA SIGNAL CABLES)	1500	LF	$5.60	$8,400.00
81	FURNISH & INSTALL NEW SIGNAL POLE FOUNDATION, RELOCATE EXISTING SIGNAL POLE, MAST ARM, & LUMINAIRE	2	EACH	$4,600.00	$9,200.00

ALMA SCHOOL ROAD IMPROVEMENTS
PECOS ROAD TO FAIRVIEW STREET
CITY OF CHANDLER PROJECT NO: ST2004.403
SUMMARY OF DIRECT COSTS

ITEM #	DESCRIPTION	QTY	UM	UNIT PRICE	TOTAL PRICE
82	FURNISH & INSTALL STREET LIGHT POLE AND FOUNDATION PER COC UDM STD DTL SL1 AND SECTION 2.2 USE EXISTING LUMINAIRE	4	EACH	$4,165.00	$16,660.00
83	RELOCATE EXISTING STREET LIGHT POLE, MAST ARM, AND LUMINARE TO NEW FOUNDATION PER COC UDM STD DTL SL1	4	EACH	$2,000.00	$8,000.00
84	FURNISH & INSTALL TYPE II 133 WATT LED COOPER LIGHTING MODEL NVN-AE-03-E-U-SL2-10K-4-AP	6	EACH	$500.00	$3,000.00
85	SCHEDULE 40 2" QUAD DUCT WITH 12 AWG TRACER WIRE AND PULL TAPE. CONDUIT COLORS, 1-BLACK, 3-GRAY	1016	LF	$46.00	$46,736.00
86	INSTALL NEW 144 SMFO IN BLACK CONDUIT. INSTALL 12 AWG TRACER WIRE AND MULE TAPE IN ALL CONDUITS.	1016	LF	$7.95	$8,077.20
87	INSTALL NEW 144 SMFO AND 12 AWG TRACER WIRE AND MULE TAPE IN EXISTING CONDUIT	2427	LF	$7.95	$19,294.65
87.5	INSTALL NEW 144 SMFO AND 12 AWG TRACER WIRE AND MULE TAPE IN EXISTING CONDUIT (WILLIS TO GERMANN)	2775	LF	$7.95	$22,061.25
88	FURNISH & INSTALL SPLICE ENCLOSURE	2	EACH	$1,610.00	$3,220.00
89	SCHEDULE 40 3" CONDUIT FOR ITS IMPROVEMENTS	38	LF	$160.00	$6,080.00
90	DIRECTIONAL DRILL (ITS CONDUIT RUNS)	0	LF	$0.00	$0.00
91	12 PORT GATOR PATCH CABLE ASSEMBLY	3	EACH	$1,635.00	$4,905.00
92	REMOVE EXISTING TWISTED PAIR, PROTECT IN PLACE EXISTING CONDUIT, CONDUCTORS AND FIBER OPTIC CABLE	908	LF	$0.60	$544.80
93	INSTALL ETHERWAN EX73931-OVB WITH FOUR EX-1250TSP-MB5L-A SFP AND EX41-136046 POWER SUPPLY. SALVAGE EXISTING ETHERNET SWITCH	2	EACH	$4,647.00	$9,294.00
94	ALLOWANCE: ROADWAY WORK	1	AL	$0.00	$0.00
95	ALLOWANCE: CONCRETE WORK	1	AL	$0.00	$0.00
96	ALLOWANCE: LANDSCAPING	1	AL	$0.00	$0.00
97	ALLOWANCE: TRAFFIC SIGNAL AND COMMUNICATIONS FACILITIES	1	AL	$0.00	$0.00
98	ALLOWANCE: SRP ELECTRICAL	1	AL	$0.00	$0.00
99	ALLOWANCE: APS ELECTRICAL	1	AL	$0.00	$0.00
100	ALLOWANCE: UTILITIES	1	AL	$0.00	$0.00
101	ALLOWANCE: REMOVALS	1	AL	$0.00	$0.00
102	ALLOWANCE: UNSUITIBLE SOILD	1	AL	$0.00	$0.00
103	ALLOWANCE: (UNFORSEEN CONDITIONS)	1	AL	$0.00	$0.00
104	TRAFFIC CONTROL	1	LS	$181,861.20	$181,861.20
	SUBTOTAL DIRECT COSTS				**$1,503,814.66**

ALLOWANCES

ITEM #	DESCRIPTION	QTY	UM	UNIT PRICE	TOTAL PRICE
	OWNERS ALLOWANCE	1	AL	$150,000.00	$150,000.00
	ALLOWANCE: UNSUITABLE SUBGRADE	1	AL	$56,000.00	$56,000.00
	ALLOWANCE: TRAFFIC SIGNALS	1	AL	$43,000.00	$43,000.00
				TOTAL ALLOWANCES	**$249,000.00**

COST DETAIL

1625 E. Northern Avenue
Phoenix, AZ 85020
(p) 602.323.2800 (f) 602.323.2828

Cost Detail With Categories

Project Name:	Alma School Pecos Rd Improvements (CMAR)	**Customer:**	City of Chandler
Job Number:		**Billing Address:**	175 S. Arizona Ave., 3rd floor
Bid As:			Chandler, AZ 85225
Estimator:		**Phone:**	
Project Address:		**Contact:**	
Completion Date:			

Pay Items

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
S 0.5 - 0.5 - QUALITY CONTROL (ATC Group)	**1.00**	**LS**	**$19,450.00**	**$19,450.00**
S 1 - 1 - CONSTRUCTION SURVEYING AND LAYOUT (EPS Group)	**1.00**	**LS**	**$18,300.00**	**$18,300.00**
D 2 - 2 - EROSION CONTROL (SWPPP, INSTALLATION, MAINTENANCE, AND REMOVAL)	**1.00**	**LS**	**$41,055.00**	**$41,055.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$29,750.00	$2,500.00	$8,805.00	$0.00	$0.00	$0.00
Total:	$0.00	$29,750.00	$2,500.00	$8,805.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
D EROSION CONTROL (SWPPP PREPERATION, INSTALLATION, MAINTENANCE, AND REMOVAL)	1.00	LS	$41,055.00	$41,055.00
Q AZPDES PERMIT	1.00	LS	$1,350.00	$1,350.00
Q DUST PERMIT	1.00	LS	$3,855.00	$3,855.00
Q NOI PERMIT	1.00	LS	$350.00	$350.00
Q INLET PROTECTION	4.00	EACH	$250.00	$1,000.00
Q WATTLES	750.00	LF	$3.00	$2,250.00
D SWEEPING	1.00	LS	$29,750.00	$29,750.00
SWEEPING (0.03 LS/DY, 35.00 DY)	1.00	LS	$29,750.00	$29,750.00
PICK-UP BROOM	350.00	HR	$85.00	$29,750.00
Q CONCRETE WASHOUT	1.00	LS	$2,500.00	$2,500.00
D 3 - 3 - MOBILIZATION/DEMOBILIZATION	**1.00**	**LS**	**$63,479.32**	**$63,479.32**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$5,788.48	$10,140.84	$2,000.00	$45,550.00	$0.00	$0.00	$0.00
Total:	$5,788.48	$10,140.84	$2,000.00	$45,550.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
D MOBILIZATION/DEMOBILIZATION	1.00	LS	$63,479.32	$63,479.32
D SUNLAND MOBILIZATION	1.00	LS	$10,452.80	$10,452.80
TRANSPORT (0.10 LS/DY, 10.00 DY)	1.00	LS	$10,452.80	$10,452.80
TRANSPORT	80.00	HR	$85.00	$6,800.00
OPERATOR	80.00	HR	$45.66	$3,652.80
S ELECTRICAL MOBE (Roadway Electric LLC.)	1.00	LS	$20,000.00	$20,000.00
S STRIPING MOBES (Pavement Marking Inc.)	3.00	EACH	$950.00	$2,850.00
S LANDSCAPE MOBE (CD Development)	1.00	EACH	$6,000.00	$6,000.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 3 - 3 - MOBILIZATION/DEMOBILIZATION continued)				
JOB CLEANUP	1.00	LS	$7,476.52	$7,476.52
JOB CLEANUP	1.00	LS	$4,738.72	$4,738.72
JOB CLEANUP (0.50 LS/DY, 2.00 DY)	1.00	LS	$4,738.72	$4,738.72
950H LOADER	16.00	HR	$101.58	$1,625.28
OPERATOR	16.00	HR	$45.66	$730.56
3900 WATERTRUCK	16.00	HR	$61.11	$977.76
OPERATOR	16.00	HR	$45.66	$730.56
LABOR	16.00	HR	$42.16	$674.56
HAUL DISPOSE	4.00	LOAD	$684.45	$2,737.80
SUPER 16	8.00	HR	$92.23	$737.80
DUMP FEES (TRASH) (A Estimate)	4.00	LOAD	$500.00	$2,000.00
OBLIT MOBE (Pavement Marking Inc.)	2.00	EACH	$1,100.00	$2,200.00
AC PAVING MOBE 3" (Public Works)	2.00	EACH	$2,500.00	$5,000.00
AC PAVING MOBE 1/2" (Public Works)	2.00	EACH	$2,500.00	$5,000.00
MILLING MOBES (Public Works)	3.00	EACH	$1,500.00	$4,500.00

D 4 - 4 - CLEARING AND GRUBBING — **1.00 LS — $17,257.03 — $17,257.03**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$6,499.20	$6,757.83	$4,000.00	$0.00	$0.00	$0.00	$0.00
Total:	$6,499.20	$6,757.83	$4,000.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
CLEAR & GRUB	1.00	LS	$17,257.03	$17,257.03
CLEAR & GRUB	1.00	LS	$11,781.43	$11,781.43
CLEAR & GRUB (0.33 LS/DY, 3.00 DY)	1.00	LS	$11,781.43	$11,781.43
F-250 PICKUP	24.00	HR	$18.16	$435.91
GRADE FOREMAN	24.00	HR	$49.50	$1,188.00
LABOR [2]	24.00	HR	$42.16	$2,023.68
3900 WATERTRUCK	24.00	HR	$61.11	$1,466.64
OPERATOR	24.00	HR	$45.66	$1,095.84
950H LOADER	24.00	HR	$101.58	$2,437.92
OPERATOR	24.00	HR	$45.66	$1,095.84
414E SKIP LOADER	24.00	HR	$39.24	$941.76
OPERATOR	24.00	HR	$45.66	$1,095.84
HAUL DISPOSE	8.00	LOAD	$684.45	$5,475.60
SUPER 16	16.00	HR	$92.23	$1,475.60
DUMP FEES (TRASH) (A Estimate)	8.00	LOAD	$500.00	$4,000.00

D 5 - 5 - REMOVAL TREE, DIAMETER > 12 IN — **26.00 EACH — $784.02 — $20,384.63**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$52.82	$42.75	$38.46	$650.00	$0.00	$0.00	$0.00
Total:	$1,373.20	$1,111.43	$1,000.00	$16,900.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
REMOVAL TREE, DIAMETER > 12 IN	26.00	EACH	$784.02	$20,384.63
REMOVAL TREE, DIAMETER > 12 IN (Jason's Tree Service)	26.00	EACH	$650.00	$16,900.00
REMOVE STUMPS	26.00	EACH	$81.37	$2,115.73
REMOVE STRUMPS	26.00	EACH	$81.37	$2,115.73
AAA CREW (26.00 EACH/DY, 1.00 DY)	26.00	EACH	$81.37	$2,115.73
308D EXCAVATOR	10.00	HR	$56.09	$560.90
OPERATOR 3	10.00	HR	$45.66	$456.60
GRADE FOREMAN	10.00	HR	$49.50	$495.00
F-250 PICKUP	10.00	HR	$18.16	$181.63

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 5 - 5 - REMOVAL TREE, DIAMETER > 12 IN continued)				
LABOR 2	10.00	HR	$42.16	$421.60
HAUL DISPOSE	2.00	LOAD	$684.45	$1,368.90
SUPER 16	4.00	HR	$92.23	$368.90
DUMP FEES (TRASH) (A Estimate)	2.00	LOAD	$500.00	$1,000.00
6 - 6 - SUBGRADE PREPARATION	**3,059.00**	**SY**	**$46.52**	**$142,290.28**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$19.93	$15.40	$3.19	$8.00	$0.00	$0.00	$0.00
Total:	$60,968.60	$47,093.76	$9,750.00	$24,477.92	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
SUBGRADE PREP	3,059.00	SY	$46.52	$142,290.28
ROADWAY EXCAVATION	2,585.00	CY	$24.25	$62,698.12
MASS EX TO CURB GRADE	2,000.00	CY	$7.02	$14,033.71
MASS EX TO CURB GRADE (1,000.00 CY/DY, 2.00 DY)	2,000.00	CY	$7.02	$14,033.71
F-250 PICKUP	20.00	HR	$18.16	$363.26
GRADE FOREMAN	20.00	HR	$49.50	$990.00
336 EXCAVATOR	20.00	HR	$173.57	$3,471.45
OPERATOR	20.00	HR	$45.66	$913.20
140 BLADE	20.00	HR	$124.54	$2,490.80
OPERATOR	20.00	HR	$45.66	$913.20
3900 WATERTRUCK	20.00	HR	$61.11	$1,222.20
OPERATOR	20.00	HR	$45.66	$913.20
GRADE CHECKER	20.00	HR	$48.50	$970.00
LABOR [2]	20.00	HR	$42.16	$1,686.40
GPS ROVER/BASE	20.00	HR	$5.00	$100.00
SLIVER EX	585.00	CY	$40.94	$23,947.34
SLIVER EX 5" (97.50 CY/DY, 6.00 DY)	585.00	CY	$40.94	$23,947.34
F-250 PICKUP	48.00	HR	$18.16	$871.82
GRADE FOREMAN	48.00	HR	$49.50	$2,376.00
308D EXCAVATOR	48.00	HR	$56.09	$2,692.32
OPERATOR	48.00	HR	$45.66	$2,191.68
3900 WATERTRUCK	48.00	HR	$61.11	$2,933.28
OPERATOR	48.00	HR	$45.66	$2,191.68
GRADE CHECKER	48.00	HR	$48.50	$2,328.00
LABOR [2]	48.00	HR	$42.16	$4,047.36
414E SKIP LOADER	48.00	HR	$39.24	$1,883.52
OPERATOR	48.00	HR	$45.66	$2,191.68
GPS ROVER/BASE	48.00	HR	$5.00	$240.00
HAUL EX TO STKPL	631.00	CY	$6.72	$4,239.15
HAUL EX TO STKPL (631.00 CY/DY, 1.00 DY)	631.00	CY	$6.72	$4,239.15
SUPER 16 [3]	10.00	HR	$92.23	$2,766.75
950H LOADER	10.00	HR	$101.58	$1,015.80
OPERATOR	10.00	HR	$45.66	$456.60
ROADWAY EXPORT (ADRA Contraction Inc.)	1,954.00	CY	$10.48	$20,477.92
SCARIFY AND RECOMPACT	3,059.00	SY	$8.44	$25,804.35
SCRAIFY MAINLINE	3,059.00	SY	$8.44	$25,804.35
SCARIFY & RECOMPACT (509.83 SY/DY, 6.00 DY)	3,059.00	SY	$8.44	$25,804.35
F-250 PICKUP	60.00	HR	$18.16	$1,089.77
GRADE FOREMAN	60.00	HR	$49.50	$2,970.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 6 - 6 - SUBGRADE PREPARATION continued)				
3900 WATERTRUCK	60.00	HR	$61.11	$3,666.60
OPERATOR	60.00	HR	$45.66	$2,739.60
PNUEMATIC ROLLER	60.00	HR	$29.42	$1,765.18
OPERATOR	60.00	HR	$45.66	$2,739.60
GRADE CHECKER	60.00	HR	$48.50	$2,910.00
414E SKIP LOADER	60.00	HR	$39.24	$2,354.40
LABOR	60.00	HR	$42.16	$2,529.60
OPERATOR	60.00	HR	$45.66	$2,739.60
GPS ROVER/BASE	60.00	HR	$5.00	$300.00
D FINISH SUBGRADE	3,059.00	SY	$11.25	$34,405.80
D FINISH SUBGRADE	3,059.00	SY	$11.25	$34,405.80
D FINISH MAINLINE	3,059.00	SY	$11.25	$34,405.80
FINISH MAINLINE (382.38 SY/DY, 8.00 DY)	3,059.00	SY	$11.25	$34,405.80
F-250 PICKUP	80.00	HR	$18.16	$1,453.03
GRADE FOREMAN	80.00	HR	$49.50	$3,960.00
3900 WATERTRUCK	80.00	HR	$61.11	$4,888.80
OPERATOR	80.00	HR	$45.66	$3,652.80
PNUEMATIC ROLLER	80.00	HR	$29.42	$2,353.57
OPERATOR	80.00	HR	$45.66	$3,652.80
GRADE CHECKER	80.00	HR	$48.50	$3,880.00
414E SKIP LOADER	80.00	HR	$39.24	$3,139.20
LABOR	80.00	HR	$42.16	$3,372.80
OPERATOR	80.00	HR	$45.66	$3,652.80
GPS ROVER/BASE	80.00	HR	$5.00	$400.00
Q POTHOLING	20.00	HR	$200.00	$4,000.00
D JOB WATER	1,500.00	MGAL	$10.25	$15,382.00
D WATER BUY	1,500.00	MGAL	$10.25	$15,382.00
D WATER MATERIAL	1,500.00	MGAL	$10.25	$15,382.00
WATER	1,500.00	MGAL	$6.50	$9,750.00
KLEIN TANK	704.00	HR	$8.00	$5,632.00

D 7 - 7 - AGGREGATE BASE (12") — **3,059.00 SY** — **$27.92** — **$85,409.89**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$12.41	$7.22	$8.30	$0.00	$0.00	$0.00	$0.00
Total:	$37,948.16	$22,086.73	$25,375.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
D AGGREGATE BASE (12")	3,059.00	SY	$27.92	$85,409.89
D ABC	1,896.00	TON	$45.05	$85,409.89
D BUY ABC CL 2	1,896.00	TON	$13.38	$25,375.00
MAG SPEC ABC (RDWY) (A Estimate)	2,030.00	TON	$12.50	$25,375.00
D PROCESS ABC	1,896.00	TON	$17.26	$32,734.24
D PROCESS ABC MAINLINE	1,896.00	TON	$17.26	$32,734.24
PROCESS ABC MAINLINE (237.00 TON/DY, 8.00 DY)	1,896.00	TON	$17.26	$32,734.24
F-250 PICKUP	64.00	HR	$18.16	$1,162.43
GRADE FOREMAN	64.00	HR	$49.50	$3,168.00
PNUEMATIC ROLLER	64.00	HR	$29.42	$1,882.86
OPERATOR	64.00	HR	$45.66	$2,922.24
414E SKIP LOADER [2]	64.00	HR	$39.24	$5,022.72
OPERATOR [2]	64.00	HR	$45.66	$5,844.48

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 7 - 7 - AGGREGATE BASE (12") continued)				
3900 WATERTRUCK	64.00	HR	$61.11	$3,911.04
GRADE CHECKER	64.00	HR	$48.50	$3,104.00
LABOR	64.00	HR	$42.16	$2,698.24
LABOR	64.00	HR	$42.16	$2,698.24
GPS ROVER/BASE	64.00	HR	$5.00	$320.00
FINISH ABC	3,059.00	SY	$8.92	$27,300.64
FINISH ABC MAINLINE	3,059.00	SY	$8.92	$27,300.64
FINISH ABC MAINLINE (382.38 SY/DY, 8.00 DY)	3,059.00	SY	$8.92	$27,300.64
F-250 PICKUP	64.00	HR	$18.16	$1,162.43
GRADE FOREMAN	64.00	HR	$49.50	$3,168.00
PNUEMATIC ROLLER	64.00	HR	$29.42	$1,882.86
OPERATOR	64.00	HR	$45.66	$2,922.24
414E SKIP LOADER	64.00	HR	$39.24	$2,511.36
OPERATOR	64.00	HR	$45.66	$2,922.24
3900 WATERTRUCK	64.00	HR	$61.11	$3,911.04
GRADE CHECKER	64.00	HR	$48.50	$3,104.00
LABOR	64.00	HR	$42.16	$2,698.24
LABOR	64.00	HR	$42.16	$2,698.24
GPS ROVER/BASE	64.00	HR	$5.00	$320.00
D 8 - 8 - ASPHALTIC CONCRETE PAVEMENT (2 IN SURFACE COURSE, A-12.5 EVAC)	**3,059.00**	**SY**	**$16.25**	**$49,709.84**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$1.17	$0.70	$8.10	$6.28	$0.00	$0.00	$0.00
Total:	$3,586.24	$2,133.60	$24,790.00	$19,200.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
ASPHALTIC CONCRETE PAVEMENT (2 IN SURFACE COURSE, A-12.5 EVAC)	3,059.00	SY	$16.25	$49,709.84
BUY MATERIAL	344.00	TON	$72.06	$24,790.00
ASPHALT CONCRETE PAVEMENT A 12.5(EVAC) (A Estimate)	370.00	TON	$67.00	$24,790.00
PAVING 1/2" ML (Public Works)	16.00	HR	$1,200.00	$19,200.00
AC PAVING SUPPORT A-12.5	1.00	LS	$5,719.84	$5,719.84
PAVING SUPPORT CREW (0.50 LS/DY, 2.00 DY)	1.00	LS	$5,719.84	$5,719.84
414E SKIP LOADER	16.00	HR	$39.24	$627.84
OPERATOR	16.00	HR	$45.66	$730.56
3900 WATERTRUCK	16.00	HR	$61.11	$977.76
OPERATOR	16.00	HR	$45.66	$730.56
LABOR [2]	16.00	HR	$42.16	$1,349.12
MECHANIC TRUCK	16.00	HR	$33.00	$528.00
MECHANIC	16.00	HR	$48.50	$776.00
D 9 - 9 - ASPHALTIC CONCRETE PAVEMENT (3 IN BASE COURSE, A-19 EVAC)	**3,059.00**	**SY**	**$19.97**	**$61,099.84**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$1.17	$0.70	$11.83	$6.28	$0.00	$0.00	$0.00
Total:	$3,586.24	$2,133.60	$36,180.00	$19,200.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
ASPHALTIC CONCRETE PAVEMENT (3 IN BASE COURSE, A-19 EVAC)	3,059.00	SY	$19.97	$61,099.84
BUY MATERIAL	516.00	TON	$70.12	$36,180.00
ASPHALT CONCRETE (A-19 EVAC) (A Estimate)	540.00	TON	$67.00	$36,180.00
PAVING 3" (Public Works)	16.00	HR	$1,200.00	$19,200.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 9 - 9 - ASPHALTIC CONCRETE PAVEMENT (3 IN BASE COURSE, A-19 EVAC) continued)				
D AC PAVING SUPPORT A-19	1.00	LS	$5,719.84	$5,719.84
PAVING SUPPORT CREW (0.50 LS/DY, 2.00 DY)	1.00	LS	$5,719.84	$5,719.84
414E SKIP LOADER	16.00	HR	$39.24	$627.84
OPERATOR	16.00	HR	$45.66	$730.56
3900 WATERTRUCK	16.00	HR	$61.11	$977.76
OPERATOR	16.00	HR	$45.66	$730.56
LABOR [2]	16.00	HR	$42.16	$1,349.12
MECHANIC TRUCK	16.00	HR	$33.00	$528.00
MECHANIC	16.00	HR	$48.50	$776.00
D 10 - 10 - BITUMINOUS TACK COAT SS-1H, DILUTED	**3,059.00**	**SY**	**$2.09**	**$6,400.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$2.09	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$6,400.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
D BITUMINOUS TACK COAT SS-1h, DILUTED	6.00	TON	$1,066.67	$6,400.00
S Bituminous Tack Coat SS-1h, Diluted (A Estimate)	6.00	TON	$400.00	$2,400.00
S APPLY TACK (A Estimate)	16.00	HR	$250.00	$4,000.00
D 11 - 11 - FOG SEAL/SURFACE SEAL	**12,787.00**	**SY**	**$1.28**	**$16,395.90**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.17	$0.11	$0.00	$1.00	$0.00	$0.00	$0.00
Total:	$2,213.00	$1,395.90	$0.00	$12,787.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
D FOG SEAL	12,787.00	SY	$1.28	$16,395.90
S FOG SEAL (A Estimate)	12,787.00	SY	$1.00	$12,787.00
D FOG SEAL SUPPORT	1.00	LS	$3,608.90	$3,608.90
FOG SEAL SUPPORT (0.50 LS/DY, 2.00 DY)	1.00	LS	$3,608.90	$3,608.90
414E SKIP LOADER	20.00	HR	$39.24	$784.80
OPERATOR	20.00	HR	$45.66	$913.20
3900 WATERTRUCK [0.5]	20.00	HR	$61.11	$611.10
OPERATOR [0.5]	20.00	HR	$45.66	$456.60
LABOR	20.00	HR	$42.16	$843.20
S 11.5 - 11.5 - CRACK SEAL (Public Works)	**5,000.00**	**LF**	**$1.50**	**$7,500.00**
D 12 - 12 - SINGLE CURB, TYPE A, MAG DET 222	**2,185.00**	**LF**	**$26.37**	**$57,621.99**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$12.21	$10.10	$4.06	$0.00	$0.00	$0.00	$0.00
Total:	$26,673.68	$22,068.31	$8,880.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
D SINGLE CURB, TYPE A, MAG DET 222	2,185.00	LF	$26.37	$57,621.99
D EX/FNGD CURB 222 TY A	2,185.00	LF	$5.30	$11,589.00
FINE GRADE CURB (1,092.50 LF/DY, 2.00 DY)	2,185.00	LF	$5.30	$11,589.00
GRADE CHECKER	20.00	HR	$48.50	$970.00
140 BLADE	20.00	HR	$124.54	$2,490.80
OPERATOR	20.00	HR	$45.66	$913.20
414E SKIP LOADER	20.00	HR	$39.24	$784.80
OPERATOR	20.00	HR	$45.66	$913.20
3900 WATERTRUCK	20.00	HR	$61.11	$1,222.20
OPERATOR	20.00	HR	$45.66	$913.20
613 SCRAPER	20.00	HR	$118.42	$2,368.40
OPERATOR	20.00	HR	$45.66	$913.20
GPS ROVER/BASE	20.00	HR	$5.00	$100.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 12 - 12 - SINGLE CURB, TYPE A, MAG DET 222 continued)				
LOAD STK PILE TO MEDIAN	631.00	CY	$7.51	$4,738.72
LOAD STK PILE TO MEDIAN (315.50 CY/DY, 2.00 DY)	631.00	CY	$7.51	$4,738.72
950H LOADER	16.00	HR	$101.58	$1,625.28
OPERATOR	16.00	HR	$45.66	$730.56
3900 WATERTRUCK	16.00	HR	$61.11	$977.76
OPERATOR	16.00	HR	$45.66	$730.56
LABOR	16.00	HR	$42.16	$674.56
BACKFILL MEDIAN	631.00	CY	$12.19	$7,691.41
BACKFILL MEDIAN CREW (315.50 CY/DY, 2.00 DY)	631.00	CY	$12.19	$7,691.41
F-250 PICKUP	16.00	HR	$18.16	$290.61
GRADE FOREMAN	16.00	HR	$49.50	$792.00
414E SKIP LOADER [2]	16.00	HR	$39.24	$1,255.68
OPERATOR	16.00	HR	$45.66	$730.56
3900 WATERTRUCK	16.00	HR	$61.11	$977.76
OPERATOR [2]	16.00	HR	$45.66	$1,461.12
LABOR [2]	16.00	HR	$42.16	$1,349.12
LABOR	16.00	HR	$42.16	$674.56
WACKER COMPACTOR [2]	16.00	HR	$5.00	$160.00
MEDIAN BACKFILL TRUCKING	631.00	CY	$4.68	$2,951.20
MEDIAN BACKFILL TRUCKING (315.50 CY/DY, 2.00 DY)	631.00	CY	$4.68	$2,951.20
SUPER 16 [2]	16.00	HR	$92.23	$2,951.20
Single Curb, MAG Det 222, Type A	2,185.00	LF	$14.03	$30,651.66
CURB MATERIAL	1.00	LS	$8,880.00	$8,880.00
MAG B 2500 PSI (A Estimate)	72.00	CY	$115.00	$8,280.00
MISC CURB MATERIAL	1.00	LS	$600.00	$600.00
FRM/PR/STRIP CURB 222 A	400.00	LF	$14.85	$5,938.24
FRM/PR/STRIP CURB CREW (200.00 LF/DY, 2.00 DY)	400.00	LF	$14.85	$5,938.24
FINISHER FOREMAN	16.00	HR	$49.50	$792.00
LABOR [2]	16.00	HR	$42.16	$1,349.12
LABOR [2]	16.00	HR	$42.16	$1,349.12
FINISHER 1 [2]	16.00	HR	$48.50	$1,552.00
FLATRACK [2]	16.00	HR	$28.00	$896.00
SLIP CURB 220 TY A	1,785.00	LF	$8.31	$14,833.42
SET PINS	1,785.00	LF	$1.38	$2,471.68
SET PINS CREW (892.50 LF/DY, 2.00 DY)	1,785.00	LF	$1.38	$2,471.68
FLATRACK	16.00	HR	$28.00	$448.00
LABOR	16.00	HR	$42.16	$674.56
LABOR	16.00	HR	$42.16	$674.56
LABOR	16.00	HR	$42.16	$674.56
SLIP FORM CURB	1,785.00	LF	$6.93	$12,361.74
SLIP FORM CREW (892.50 LF/DY, 2.00 DY)	1,785.00	LF	$6.93	$12,361.74
F-250 PICKUP [3]	16.00	HR	$18.16	$871.82
FINISHER FOREMAN	16.00	HR	$49.50	$792.00
FINISHER 1	16.00	HR	$48.50	$776.00
FINISHER 1 [2]	16.00	HR	$48.50	$1,552.00
LABOR [2]	16.00	HR	$42.16	$1,349.12
LABOR [5]	16.00	HR	$42.16	$3,372.80

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 12 - 12 - SINGLE CURB, TYPE A, MAG DET 222 continued)				
SLIP MACHINE	16.00	HR	$228.00	$3,648.00
SLIP FORM MOBE	1.00	EACH	$1,000.00	$1,000.00
13 - 13 - VERTICAL CURB & GUTTER, TYPE A, MAG DET 220-1	**843.00**	**LF**	**$20.90**	**$17,620.16**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$11.69	$2.62	$6.60	$0.00	$0.00	$0.00	$0.00
Total:	$9,853.92	$2,206.24	$5,560.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
VERTICAL CURB AND GUTTER, TYPE A, H=6 IN, MAG DET 220-1	843.00	LF	$20.90	$17,620.16
FNGD CURB 220-1 Type A	843.00	LF	$2.88	$2,428.80
FINE GRADE CURB (843.00 LF/DY, 1.00 DY)	843.00	LF	$2.88	$2,428.80
140 BLADE	8.00	HR	$124.54	$996.32
OPERATOR	8.00	HR	$45.66	$365.28
GRADE CHECKER	8.00	HR	$48.50	$388.00
414E SKIP LOADER	8.00	HR	$39.24	$313.92
OPERATOR	8.00	HR	$45.66	$365.28
Vertical Curb & Gutter, MAG Det 220, Type A, H=6"	843.00	LF	$18.02	$15,191.36
CURB MATERIAL	1.00	LS	$5,560.00	$5,560.00
MAG B 2500 PSI (A Estimate)	44.00	CY	$115.00	$5,060.00
MISC CURB MATERIAL	1.00	LS	$500.00	$500.00
FRM/PR/STRIP CURB 220 A	843.00	LF	$11.43	$9,631.36
FRM/PR/STRIP CURB CREW (210.75 LF/DY, 4.00 DY)	843.00	LF	$11.43	$9,631.36
FINISHER FOREMAN	32.00	HR	$49.50	$1,584.00
LABOR [2]	32.00	HR	$42.16	$2,698.24
LABOR	32.00	HR	$42.16	$1,349.12
FINISHER 1 [2]	32.00	HR	$48.50	$3,104.00
FLATRACK	32.00	HR	$28.00	$896.00
14 - 14 - CONSTRUCT CONCRETE SIDEWALK PER MAD STD DET 230	**5,011.00**	**SF**	**$7.02**	**$35,159.40**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$4.45	$0.91	$1.66	$0.00	$0.00	$0.00	$0.00
Total:	$22,299.20	$4,555.20	$8,305.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
CONCRETE SIDEWALK, MAG DET 230	5,011.00	SF	$7.02	$35,159.40
FNGD SIDEWALK 230	5,011.00	SF	$2.07	$10,383.68
FINE GRADE CONCRETE SIDEWALK (1,252.75 SF/DY, 4.00 DY)	5,011.00	SF	$2.07	$10,383.68
414E SKIP LOADER	32.00	HR	$39.24	$1,255.68
OPERATOR	32.00	HR	$45.66	$1,461.12
GRADE CHECKER	32.00	HR	$48.50	$1,552.00
3900 WATERTRUCK	32.00	HR	$61.11	$1,955.52
OPERATOR	32.00	HR	$45.66	$1,461.12
LABOR [2]	32.00	HR	$42.16	$2,698.24
Concrete Sidewalk, COP Det P1230	5,011.00	SF	$4.94	$24,775.72
SIDEWALK MATERIAL	1.00	LS	$8,305.00	$8,305.00
MISC CURB MATERIAL	1.00	LS	$600.00	$600.00
MAG B 2500 PSI (A Estimate)	67.00	CY	$115.00	$7,705.00
FRM/PR/STRIP SIDEWALK	5,011.00	SF	$3.29	$16,470.72
FRM/PR/STRIP SIDEWALK CREW (835.17 SF/DY, 6.00 DY)	5,011.00	SF	$3.29	$16,470.72
FINISHER FOREMAN	48.00	HR	$49.50	$2,376.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 14 - 14 - CONSTRUCT CONCRETE SIDEWALK PER MAD STD DET 230 continued)				
LABOR [2]	48.00	HR	$42.16	$4,047.36
LABOR [2]	48.00	HR	$42.16	$4,047.36
FINISHER 1 [2]	48.00	HR	$48.50	$4,656.00
FLATRACK	48.00	HR	$28.00	$1,344.00
15 - 15 - CONSTRUCT DUAL RAMP PER COC DET C-258	**2.00**	**EACH**	**$2,822.08**	**$5,644.16**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$1,455.44	$216.64	$1,150.00	$0.00	$0.00	$0.00	$0.00
Total:	$2,910.88	$433.28	$2,300.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
DUAL CONCRETE CURB RAMP WITH DETECTABLE WARNING, COC DET C-258	2.00	EACH	$2,822.08	$5,644.16
FNG SIDEWALK RMP	2.00	EACH	$468.16	$936.32
FINE GRADE SIDEWALK RAMP (3.00 EACH/DY, 0.67 DY)	2.00	EACH	$468.16	$936.32
414E SKIP LOADER	5.33	HR	$39.24	$209.28
OPERATOR	5.33	HR	$45.66	$243.52
GRADE CHECKER	5.33	HR	$48.50	$258.67
LABOR	5.33	HR	$42.16	$224.85
Sidewalk Ramp, (COC STD DTL C-258)	2.00	EACH	$2,353.92	$4,707.84
SIDEWALK MATERIAL	1.00	LS	$2,300.00	$2,300.00
MAG B 2500 PSI (A Estimate)	10.00	CY	$115.00	$1,150.00
MISC CURB MATERIAL	1.00	LS	$150.00	$150.00
DETECTABLE WARNING (SIDEWALK)	40.00	SF	$25.00	$1,000.00
FRM/PR/STRIP RMP C-258	2.00	EACH	$1,203.92	$2,407.84
FRM/PR/STRIP SIDEWALK RAMP (2.00 EACH/DY, 1.00 DY)	2.00	EACH	$1,203.92	$2,407.84
FINISHER FOREMAN	8.00	HR	$49.50	$396.00
LABOR [2]	8.00	HR	$42.16	$674.56
LABOR	8.00	HR	$42.16	$337.28
FINISHER 1 [2]	8.00	HR	$48.50	$776.00
FLATRACK	8.00	HR	$28.00	$224.00
16 - 16 - CONSTRUCT SINGLE RAMP PER COC DET C-258	**2.00**	**EACH**	**$2,834.58**	**$5,669.16**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$1,455.44	$216.64	$1,162.50	$0.00	$0.00	$0.00	$0.00
Total:	$2,910.88	$433.28	$2,325.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
CONSTRUCT SINGLE RAMP PER COC DET C-258	2.00	EACH	$2,834.58	$5,669.16
FNG SIDEWALK RMP	2.00	EACH	$468.16	$936.32
FINE GRADE SIDEWALK RAMP (3.00 EACH/DY, 0.67 DY)	2.00	EACH	$468.16	$936.32
414E SKIP LOADER	5.33	HR	$39.24	$209.28
OPERATOR	5.33	HR	$45.66	$243.52
GRADE CHECKER	5.33	HR	$48.50	$258.67
LABOR	5.33	HR	$42.16	$224.85
Sidewalk Ramp, (COC STD DTL C-258)	2.00	EACH	$2,366.42	$4,732.84
SIDEWALK MATERIAL	1.00	LS	$2,325.00	$2,325.00
MAG B 2500 PSI (A Estimate)	15.00	CY	$115.00	$1,725.00
MISC CURB MATERIAL	1.00	LS	$100.00	$100.00
DETECTABLE WARNING (SIDEWALK)	20.00	SF	$25.00	$500.00
FRM/PR/STRIP RMP C-258	2.00	EACH	$1,203.92	$2,407.84
FRM/PR/STRIP SIDEWALK RAMP (2.00 EACH/DY, 1.00 DY)	2.00	EACH	$1,203.92	$2,407.84
FINISHER FOREMAN	8.00	HR	$49.50	$396.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 16 - 16 - CONSTRUCT SINGLE RAMP PER COC DET C-258 continued)				
LABOR [2]	8.00	HR	$42.16	$674.56
LABOR	8.00	HR	$42.16	$337.28
FINISHER 1 [2]	8.00	HR	$48.50	$776.00
FLATRACK	8.00	HR	$28.00	$224.00
17 - 17 - CONSTRUCT CONCRETE BUS BAY AND SHELTER PAD PER COC DET C-230	**1.00**	**EACH**	**$26,507.92**	**$26,507.92**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$16,085.12	$1,922.80	$8,500.00	$0.00	$0.00	$0.00	$0.00
Total:	$16,085.12	$1,922.80	$8,500.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
CONCRETE VALLEY GUTTER (MAG DET. 240)	1,250.00	SF	$21.21	$26,507.92
FNG BUS BAY	1,250.00	SF	$2.08	$2,595.92
FINE GRADE APRON AND VALLEY GUTTER (1,250.00 SF/DY, 1.00 DY)	1,250.00	SF	$2.08	$2,595.92
414E SKIP LOADER	8.00	HR	$39.24	$313.92
OPERATOR	8.00	HR	$45.66	$365.28
GRADE CHECKER	8.00	HR	$48.50	$388.00
3900 WATERTRUCK	8.00	HR	$61.11	$488.88
OPERATOR	8.00	HR	$45.66	$365.28
LABOR	8.00	HR	$42.16	$337.28
LABOR	8.00	HR	$42.16	$337.28
CONSTRUCT CONCRETE BUS BAY AND SHELTER PAD PER COC DET C-230	1,250.00	SF	$19.13	$23,912.00
SIDEWALK MATERIAL	1.00	LS	$8,500.00	$8,500.00
MISC CURB MATERIAL	1.00	LS	$1,000.00	$1,000.00
MAG A 3000 PSI (A Estimate)	50.00	CY	$150.00	$7,500.00
FRM/PR/STRP BAY	1,250.00	SF	$12.33	$15,412.00
FRM/PR/STRIP SIDEWALK CREW (312.50 SF/DY, 4.00 DY)	1,250.00	SF	$12.33	$15,412.00
FINISHER FOREMAN	40.00	HR	$49.50	$1,980.00
LABOR [4]	40.00	HR	$42.16	$6,745.60
LABOR	40.00	HR	$42.16	$1,686.40
FINISHER 1 [2]	40.00	HR	$48.50	$3,880.00
FLATRACK	40.00	HR	$28.00	$1,120.00
18 - 18 - CONSTRUCT CONCRETE VALLEY GUTTER PEP MAG STD DETAIL 240 (MODIFIED 3')	**254.00**	**SF**	**$36.70**	**$9,322.50**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$27.56	$3.44	$5.71	$0.00	$0.00	$0.00	$0.00
Total:	$6,999.80	$872.70	$1,450.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
CONCRETE VALLEY GUTTER (MAG DET. 240)	254.00	SF	$36.70	$9,322.50
FNG VALLY GUTTER	254.00	SF	$2.56	$648.98
FINE GRADE APRON AND VALLEY GUTTER (1,016.00 SF/DY, 0.25 DY)	254.00	SF	$2.56	$648.98
414E SKIP LOADER	2.00	HR	$39.24	$78.48
OPERATOR	2.00	HR	$45.66	$91.32
GRADE CHECKER	2.00	HR	$48.50	$97.00
3900 WATERTRUCK	2.00	HR	$61.11	$122.22
OPERATOR	2.00	HR	$45.66	$91.32
LABOR	2.00	HR	$42.16	$84.32
LABOR	2.00	HR	$42.16	$84.32
CONCRETE VALLEY GUTTER (MAG DET. 240)	254.00	SF	$34.15	$8,673.52

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 18 - 18 - CONSTRUCT CONCRETE VALLEY GUTTER PEP MAG STD DETAIL 240 (MODIFIED 3') continued)				
SIDEWALK MATERIAL	1.00	LS	$1,450.00	$1,450.00
MISC CURB MATERIAL	1.00	LS	$100.00	$100.00
MAG A 3000 PSI (A Estimate)	9.00	CY	$150.00	$1,350.00
FRM/PR/STRP GUTTER	254.00	SF	$28.44	$7,223.52
FRM/PR/STRIP SIDEWALK CREW (84.67 SF/DY, 3.00 DY)	254.00	SF	$28.44	$7,223.52
FINISHER FOREMAN	24.00	HR	$49.50	$1,188.00
LABOR [2]	24.00	HR	$42.16	$2,023.68
LABOR	24.00	HR	$42.16	$1,011.84
FINISHER 1 [2]	24.00	HR	$48.50	$2,328.00
FLATRACK	24.00	HR	$28.00	$672.00
19 - 19 - CONSTRUCT DRAINAGE SCUPPER PER COC DET C-500. REUSE EXISTING RIP RAP AND SPLASH PAD	**4.00**	**EACH**	**$7,919.28**	**$31,677.12**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$5,007.28	$562.00	$2,100.00	$250.00	$0.00	$0.00	$0.00
Total:	$20,029.12	$2,248.00	$8,400.00	$1,000.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
SCUPPER PER COC STD DETAIL C-500	4.00	EACH	$7,919.28	$31,677.12
EXC SCPR/SPLWY C-500	4.00	EACH	$477.37	$1,909.48
EXCAVATE SCUPPER (2.00 EACH/DY, 2.00 DY)	4.00	EACH	$477.37	$1,909.48
420E BACKHOE	16.00	HR	$26.52	$424.36
OPERATOR	16.00	HR	$45.66	$730.56
LABOR	16.00	HR	$42.16	$674.56
WACKER COMPACTOR	16.00	HR	$5.00	$80.00
CONCRETE SCUPPER, C-500	4.00	EACH	$7,441.91	$29,767.64
BUY SCUPPER MATERIAL	4.00	EACH	$2,100.00	$8,400.00
MISC SCUPPER MATERIAL (A Estimate)	1.00	LS	$1,000.00	$1,000.00
MAG A 3000 PSI (A Estimate)	12.00	CY	$150.00	$1,800.00
SCUPPER HDWR C-500 (Grate Solutions Company Inc.)	4.00	EACH	$1,400.00	$5,600.00
BUILD SCUPPER C-500	4.00	EACH	$5,091.91	$20,367.64
FORM/POUR/STRIP CATCH BASIN (0.33 EACH/DY, 12.00 DY)	4.00	EACH	$5,091.91	$20,367.64
F-250 PICKUP	96.00	HR	$18.16	$1,743.64
CARPENTER FOREMEN	96.00	HR	$48.50	$4,656.00
CARPENTER 1 [3]	96.00	HR	$48.50	$13,968.00
19 - CONCRETE SCUPPER REBAR (A Estimate)	4.00	EACH	$250.00	$1,000.00
20 - 20 - MEDIAN NOSE PER, COC DET C-225 (PAINTED YELLOW)	**41.00**	**SF**	**$59.17**	**$2,425.78**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$43.69	$4.99	$10.49	$0.00	$0.00	$0.00	$0.00
Total:	$1,791.38	$204.40	$430.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
MEDIAN NOSE PER, COC DET C-225 (PAINTED YELLOW)	41.00	SF	$59.17	$2,425.78
CONCRETE HEADER (6")	10.00	LF	$115.82	$1,158.23
CONCRETE HEADER (6")	10.00	LF	$115.82	$1,158.23
CURB MATERIAL	1.00	LS	$165.00	$165.00
MAG B 2500 PSI (A Estimate)	1.00	CY	$115.00	$115.00
MISC CURB MATERIAL	1.00	LS	$50.00	$50.00
FRM/PR/STRP HEADER(6")	10.00	LF	$99.32	$993.23
FRM/PR/STRIP CURB CREW (30.30 LF/DY, 0.33 DY)	10.00	LF	$99.32	$993.23
FINISHER FOREMAN	3.30	HR	$49.50	$163.35

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 20 - 20 - MEDIAN NOSE PER, COC DET C-225 (PAINTED YELLOW) continued)				
LABOR [2]	3.30	HR	$42.16	$278.26
LABOR	3.30	HR	$42.16	$139.13
FINISHER 1 [2]	3.30	HR	$48.50	$320.10
FLATRACK	3.30	HR	$28.00	$92.40
END OF MEDIAN RAMP PER COC STD DTL C- 225	41.00	SF	$30.92	$1,267.55
FNGD MEDIAN	41.00	SF	$8.14	$333.91
FNGD MEDIAN (124.24 SF/DY, 0.33 DY)	41.00	SF	$8.14	$333.91
LABOR [3]	2.64	HR	$42.16	$333.91
END OF MEDIAN RAMP PER COC STD DTL C- 225	41.00	SF	$22.77	$933.64
SIDEWALK MATERIAL	1.00	LS	$265.00	$265.00
MISC CURB MATERIAL	1.00	LS	$100.00	$100.00
MAG B 2500 PSI (A Estimate)	1.00	CY	$115.00	$115.00
MAG SPEC ABC (A Estimate)	4.00	TON	$12.50	$50.00
END OF MEDIAN RAMP PER COC STD DTL C- 225	41.00	SF	$16.31	$668.64
END OF MEDIAN RAMP PER COC STD DTL C- 225 (82.00 SF/DY, 0.50 DY)	41.00	SF	$16.31	$668.64
LABOR	4.00	HR	$42.16	$168.64
FINISHER 1 [2]	4.00	HR	$48.50	$388.00
FLATRACK	4.00	HR	$28.00	$112.00

21 - 21 - MEDIAN PAVERS PER COC DET C-225 | **1,504.00** | **SF** | **$9.11** | **$13,705.22**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$1.46	$0.66	$0.00	$7.00	$0.00	$0.00	$0.00
Total:	$2,189.12	$988.10	$0.00	$10,528.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
MEDIAN PAVERS PER COC DET C-225	1,504.00	SF	$9.11	$13,705.22
FINEGRADE MEDIAN PAVERS	1,504.00	SF	$2.11	$3,177.22
FINEGRADE MEDIAN PAVERS (1,504.00 SF/DY, 1.00 DY)	1,504.00	SF	$2.11	$3,177.22
F-250 PICKUP	8.00	HR	$18.16	$145.30
414E SKIP LOADER	8.00	HR	$39.24	$313.92
OPERATOR	8.00	HR	$45.66	$365.28
GRADE CHECKER	8.00	HR	$48.50	$388.00
LABOR	8.00	HR	$42.16	$337.28
LABOR	8.00	HR	$42.16	$337.28
GRADE FOREMAN	8.00	HR	$49.50	$396.00
3900 WATERTRUCK	8.00	HR	$61.11	$488.88
OPERATOR	8.00	HR	$45.66	$365.28
GPS ROVER/BASE	8.00	HR	$5.00	$40.00
BRICK MEDIAN PAVERS, COC DET C-225 (CD Development)	1,504.00	SF	$7.00	$10,528.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
22 - 22 - ADJUST MANHOLE FRAME & COVER, MAG DET 422 (Specialty Co. Group)	**2.00**	**EACH**	**$850.00**	**$1,700.00**
23 - 23 - ADJUST VALVE BOX & COVER, MAG DET 391-1 AND COC DET C-307 (Specialty Co. Group)	**3.00**	**EACH**	**$750.00**	**$2,250.00**
24 - 24 - CUT EXISTING WATER LINE AND INSTALL NEW VALVE & VALVE BOX PER MAG DETAILS	**1.00**	**EACH**	**$5,345.53**	**$5,345.53**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$1,687.80	$795.23	$1,812.50	$1,050.00	$0.00	$0.00	$0.00
Total:	$1,687.80	$795.23	$1,812.50	$1,050.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
CUT EXISTING WATER LINE AND INSTALL NEW VALVE & VALVE BOX PER MAG DETAILS	1.00	EACH	$5,345.53	$5,345.53

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 24 - 24 - CUT EXISTING WATER LINE AND INSTALL NEW VALVE & VALVE BOX PER MAG DETAILS continued)				
BUY VALVE MATERIALS	1.00	EACH	$2,012.50	$2,012.50
MAG SPEC ABC (A Estimate)	5.00	TON	$12.50	$62.50
SPEED SHORES	4.00	DY	$50.00	$200.00
VALVE BOX & COVER (A Estimate)	1.00	EACH	$250.00	$250.00
24 - 6" GATE VALVE	1.00	EACH	$1,500.00	$1,500.00
CUT IN VALVE	1.00	EACH	$2,283.03	$2,283.03
HYDRANT CREW (1.00 EACH/DY, 1.00 DY)	1.00	EACH	$2,283.03	$2,283.03
420E BACKHOE	10.00	HR	$26.52	$265.23
OPERATOR	10.00	HR	$45.66	$456.60
LABOR	10.00	HR	$42.16	$421.60
LABOR	10.00	HR	$42.16	$421.60
FLATRACK	10.00	HR	$28.00	$280.00
WACKER COMPACTOR	10.00	HR	$5.00	$50.00
PIPE FOREMAN	10.00	HR	$38.80	$388.00
TAP WATERLINE (Pipeline Sevices Inc.)	1.00	EACH	$1,050.00	$1,050.00

25 - 25 - CONNECT NEW 6" DIP AT EXISTING FIRE HYDRANT — **2.00 EACH** — **$757.95** — **$1,515.90**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$278.49	$198.21	$281.25	$0.00	$0.00	$0.00	$0.00
Total:	$556.97	$396.43	$562.50	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
CONNECT NEW 6" DIP AT EXISTING FIRE HYDRANT	2.00	EACH	$757.95	$1,515.90
BUY HYDRANT MATERIALS	2.00	EACH	$381.25	$762.50
MAG SPEC ABC (A Estimate)	5.00	TON	$12.50	$62.50
SPEED SHORES	4.00	DY	$50.00	$200.00
167- 6" CAP (A Estimate)	2.00	EACH	$250.00	$500.00
CONNECT NEW 6" DIP AT EXISTING FIRE HYDRANT	2.00	EACH	$376.70	$753.40
HYDRANT CREW (6.06 EACH/DY, 0.33 DY)	2.00	EACH	$376.70	$753.40
420E BACKHOE	3.30	HR	$26.52	$87.53
OPERATOR	3.30	HR	$45.66	$150.68
LABOR	3.30	HR	$42.16	$139.13
LABOR	3.30	HR	$42.16	$139.13
FLATRACK	3.30	HR	$28.00	$92.40
WACKER COMPACTOR	3.30	HR	$5.00	$16.50
PIPE FOREMAN	3.30	HR	$38.80	$128.04

26 - 26 - INSTALL 6" DIP — **26.00 LF** — **$208.96** — **$5,433.03**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$64.92	$30.59	$113.46	$0.00	$0.00	$0.00	$0.00
Total:	$1,687.80	$795.23	$2,950.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
INSTALL 6" DIP	26.00	EACH	$208.96	$5,433.03
BUY HYDRANT MATERIALS	26.00	EACH	$121.15	$3,150.00
MAG SPEC ABC (A Estimate)	20.00	TON	$12.50	$250.00
SPEED SHORES	4.00	DY	$50.00	$200.00
10 - 6" DIP For Fire Hydrants (A Estimate)	60.00	LF	$40.00	$2,400.00
MAG A 3000 PSI (A Estimate)	2.00	CY	$150.00	$300.00
INSTALL 6" DIP	26.00	EACH	$87.81	$2,283.03
HYDRANT CREW (26.00 LF/DY, 1.00 DY)	26.00	LF	$87.81	$2,283.03
420E BACKHOE	10.00	HR	$26.52	$265.23
OPERATOR	10.00	HR	$45.66	$456.60

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 26 - 26 - INSTALL 6" DIP continued)				
LABOR	10.00	HR	$42.16	$421.60
LABOR	10.00	HR	$42.16	$421.60
FLATRACK	10.00	HR	$28.00	$280.00
WACKER COMPACTOR	10.00	HR	$5.00	$50.00
PIPE FOREMAN	10.00	HR	$38.80	$388.00
27 - 27 - INSTALL 6" DIP BENDS	**2.00**	**EACH**	**$1,052.01**	**$2,104.01**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$421.95	$248.81	$381.25	$0.00	$0.00	$0.00	$0.00
Total:	$843.90	$497.61	$762.50	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
INSTALL 6" DIP	2.00	EACH	$1,052.01	$2,104.01
BUY HYDRANT MATERIALS	2.00	EACH	$481.25	$962.50
MAG SPEC ABC (A Estimate)	5.00	TON	$12.50	$62.50
SPEED SHORES	4.00	DY	$50.00	$200.00
30 - 45 Deg Restrained Bends (A Estimate)	2.00	EACH	$350.00	$700.00
INSTALL 6" DIP	2.00	EACH	$570.76	$1,141.51
HYDRANT CREW (4.00 LF/DY, 0.50 DY)	2.00	LF	$570.76	$1,141.51
420E BACKHOE	5.00	HR	$26.52	$132.61
OPERATOR	5.00	HR	$45.66	$228.30
LABOR	5.00	HR	$42.16	$210.80
LABOR	5.00	HR	$42.16	$210.80
FLATRACK	5.00	HR	$28.00	$140.00
WACKER COMPACTOR	5.00	HR	$5.00	$25.00
PIPE FOREMAN	5.00	HR	$38.80	$194.00
28 - 28 - FURNISH & INSTALL NEW FIRE HYDRANT PER COC DET C-303	**3.00**	**EACH**	**$9,136.36**	**$27,409.08**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$1,687.80	$661.89	$6,786.67	$0.00	$0.00	$0.00	$0.00
Total:	$5,063.40	$1,985.68	$20,360.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
FURNISH & INSTALL NEW FIRE HYDRANT PER COC DET C-303	3.00	EACH	$9,136.36	$27,409.08
BUY HYDRANT MATERIALS	3.00	EACH	$6,853.33	$20,560.00
MAG SPEC ABC (A Estimate)	20.00	TON	$12.50	$250.00
MAG B 2500 PSI (A Estimate)	4.00	CY	$115.00	$460.00
A MISC MATERIALS (A Estimate)	1.00	LS	$150.00	$150.00
SPEED SHORES	4.00	DY	$50.00	$200.00
195-INSTALL FIRE HYDRANT, MAG DET 360 (A Estimate)	3.00	EACH	$6,500.00	$19,500.00
FURNISH & INSTALL NEW FIRE HYDRANT PER COC DET C-303	3.00	EACH	$2,283.03	$6,849.08
HYDRANT CREW (1.00 EACH/DY, 3.00 DY)	3.00	EACH	$2,283.03	$6,849.08
420E BACKHOE	30.00	HR	$26.52	$795.68
OPERATOR	30.00	HR	$45.66	$1,369.80
LABOR	30.00	HR	$42.16	$1,264.80
LABOR	30.00	HR	$42.16	$1,264.80
FLATRACK	30.00	HR	$28.00	$840.00
WACKER COMPACTOR	30.00	HR	$5.00	$150.00
PIPE FOREMAN	30.00	HR	$38.80	$1,164.00
29 - 29 - 2" MILL EXISTING ASPHALTIC CONCRETE PAVEMENT	**448.00**	**SY**	**$17.25**	**$7,728.72**

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost

(Item 29 - 29 - 2" MILL EXISTING ASPHALTIC CONCRETE PAVEMENT continued)

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$3.26	$9.66	$0.33	$4.00	$0.00	$0.00	$0.00
Total:	$1,461.12	$4,325.60	$150.00	$1,792.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
MILLING 2" AC	448.00	SY	$17.25	$7,728.72
REMOVE ASPHALTIC CONCRETE PAVEMENT	448.00	SY	$17.25	$7,728.72
MILLING 2" (Public Works)	448.00	SY	$4.00	$1,792.00
MILLING SUPPORT	1.00	LS	$4,426.72	$4,426.72
MILLING SUPPORT CREW (0.50 LS/DY, 2.00 DY)	1.00	LS	$4,426.72	$4,426.72
3900 WATERTRUCK	16.00	HR	$61.11	$977.76
OPERATOR	16.00	HR	$45.66	$730.56
PICK-UP BROOM	16.00	HR	$85.00	$1,360.00
414E SKIP LOADER	16.00	HR	$39.24	$627.84
OPERATOR	16.00	HR	$45.66	$730.56
HAUL MILLINGS	24.00	CY	$56.67	$1,360.00
HAUL MILLINGS	24.00	CY	$56.67	$1,360.00
HAUL MILLINGS (24.00 CY/DY, 1.00 DY)	24.00	CY	$56.67	$1,360.00
BELLY DUMP [2]	8.00	HR	$85.00	$1,360.00
DUMP FEES	3.00	LOAD	$50.00	$150.00
DUMP FEES (ASPHALT) (A Estimate)	3.00	LOAD	$50.00	$150.00
30 - 30 - REMOVE EXISTING CONCRETE CURB	**3,507.00**	**LF**	**$8.05**	**$28,232.78**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$3.09	$4.21	$0.64	$0.11	$0.00	$0.00	$0.00
Total:	$10,832.00	$14,750.78	$2,250.00	$400.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
REMOVE CONCRETE SINGLE CURB	3,507.00	LF	$8.05	$28,232.78
CURB CUTS (A Estimate)	8.00	EACH	$50.00	$400.00
REM/LD CURB & GUTTER	3,507.00	LF	$5.45	$19,127.03
REMOVE/LD CURB (876.75 LF/DY, 4.00 DY)	3,507.00	LF	$5.45	$19,127.03
F-250 PICKUP	40.00	HR	$18.16	$726.52
GRADE FOREMAN	40.00	HR	$49.50	$1,980.00
420E BACKHOE	40.00	HR	$26.52	$1,060.91
OPERATOR	40.00	HR	$45.66	$1,826.40
950H LOADER	40.00	HR	$101.58	$4,063.20
OPERATOR	40.00	HR	$45.66	$1,826.40
3900 WATERTRUCK	40.00	HR	$61.11	$2,444.40
OPERATOR	40.00	HR	$45.66	$1,826.40
LABOR [2]	40.00	HR	$42.16	$3,372.80
HAUL/DISPOSE CONCRETE	35.00	LOAD	$248.74	$8,705.75
SUPER 16	70.00	HR	$92.23	$6,455.75
DUMP FEES (CONCRETE) (A Estimate)	45.00	LOAD	$50.00	$2,250.00
31 - 31 - REMOVE EXISTING CONCRETE SIDEWALK AND CONCRETE RAMPS	**6,713.00**	**SF**	**$2.64**	**$17,751.29**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$1.02	$1.41	$0.07	$0.14	$0.00	$0.00	$0.00
Total:	$6,859.20	$9,434.01	$500.00	$958.08	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
REMOVAL OF CONCRETE SIDEWALKS, DRIVEWAYS AND SLABS	6,713.00	SF	$2.64	$17,751.29
SAWCUT SIDEWALK (A Estimate)	8.00	EACH	$119.76	$958.08
REM/LD S/W	6,713.00	SF	$2.15	$14,448.71
REMOVE/LD S/W, DW (2,237.67 SF/DY, 3.00 DY)	6,713.00	SF	$2.15	$14,448.71

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 31 - 31 - REMOVE EXISTING CONCRETE SIDEWALK AND CONCRETE RAMPS continued)				
950H LOADER	30.00	HR	$101.58	$3,047.40
OPERATOR	30.00	HR	$45.66	$1,369.80
LABOR	30.00	HR	$42.16	$1,264.80
3900 WATERTRUCK	30.00	HR	$61.11	$1,833.30
OPERATOR	30.00	HR	$45.66	$1,369.80
420 E BACKHOE W/ HAMMER	30.00	HR	$72.13	$2,163.92
OPERATOR	30.00	HR	$45.66	$1,369.80
F-250 PICKUP	30.00	HR	$18.16	$544.89
GRADE FOREMAN	30.00	HR	$49.50	$1,485.00
HAUL/DISPOSE CONCRETE	10.00	LOAD	$234.45	$2,344.50
SUPER 16	20.00	HR	$92.23	$1,844.50
DUMP FEES (CONCRETE) (A Estimate)	10.00	LOAD	$50.00	$500.00
32 - 32 - REMOVE LIGHT POLE FOUNDATIONS AND SALVAGE STREETLIGHT POLES/EQUIPMENT	**4.00**	**EACH**	**$1,660.31**	**$6,641.25**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$450.28	$395.03	$250.00	$565.00	$0.00	$0.00	$0.00
Total:	$1,801.12	$1,580.13	$1,000.00	$2,260.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
REMOVE LIGHT POLE FOUNDATIONS AND SALVAGE STREETLIGHT POLES/EQUIPMENT	4.00	EACH	$1,660.31	$6,641.25
REMOVE/SALVAGE LIGHT POLES (Roadway Electric LLC.)	4.00	EACH	$565.00	$2,260.00
REMOVE POLE FOUNDATIONS	4.00	EACH	$1,095.31	$4,381.25
REMOVE POLE FOUNDATIONS	4.00	EACH	$753.09	$3,012.35
REMOVE POLE FOUNDATIONS (4.00 EACH/DY, 1.00 DY)	4.00	EACH	$753.09	$3,012.35
F-250 PICKUP	8.00	HR	$18.16	$145.30
GRADE FOREMAN	8.00	HR	$49.50	$396.00
LABOR	8.00	HR	$42.16	$337.28
LABOR	8.00	HR	$42.16	$337.28
3900 WATERTRUCK	8.00	HR	$61.11	$488.88
OPERATOR	8.00	HR	$45.66	$365.28
420 E BACKHOE W/ HAMMER	8.00	HR	$72.13	$577.05
OPERATOR	8.00	HR	$45.66	$365.28
HAUL/DISPOSE CONCRETE	2.00	LOAD	$684.45	$1,368.90
SUPER 16	4.00	HR	$92.23	$368.90
DUMP FEES (TRASH) (A Estimate)	2.00	LOAD	$500.00	$1,000.00
33 - 33 - REMOVE AND SALVAGE EXISTING FIRE HYDRANT	**3.00**	**EACH**	**$1,291.51**	**$3,874.54**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$843.90	$364.28	$83.33	$0.00	$0.00	$0.00	$0.00
Total:	$2,531.70	$1,092.84	$250.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
REMOVE AND SALVAGE EXISTING FIRE HYDRANT	3.00	EACH	$1,291.51	$3,874.54
BUY HYDRANT MATERIALS	3.00	EACH	$150.00	$450.00
MAG SPEC ABC (A Estimate)	20.00	TON	$12.50	$250.00
SPEED SHORES	4.00	DY	$50.00	$200.00
REMOVE AND SALVAGE EXISTING FIRE HYDRANT	3.00	EACH	$1,141.51	$3,424.54
HYDRANT CREW (2.00 EACH/DY, 1.50 DY)	3.00	EACH	$1,141.51	$3,424.54
420E BACKHOE	15.00	HR	$26.52	$397.84
OPERATOR	15.00	HR	$45.66	$684.90
LABOR	15.00	HR	$42.16	$632.40
LABOR	15.00	HR	$42.16	$632.40

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 33 - 33 - REMOVE AND SALVAGE EXISTING FIRE HYDRANT continued)				
FLATRACK	15.00	HR	$28.00	$420.00
WACKER COMPACTOR	15.00	HR	$5.00	$75.00
PIPE FOREMAN	15.00	HR	$38.80	$582.00
D 34 - 34 - REMOVE EXISTING CONCRETE DRAINAGE SCUPPER	**4.00**	**EACH**	**$2,799.58**	**$11,198.34**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$1,083.20	$1,216.38	$500.00	$0.00	$0.00	$0.00	$0.00
Total:	$4,332.80	$4,865.54	$2,000.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
REMOVE CONCRETE SCUPPER	4.00	EACH	$2,799.58	$11,198.34
REMOVE SCUPPER	4.00	EACH	$2,115.13	$8,460.54
REMOVE SCUPPER (2.00 EACH/DY, 2.00 DY)	4.00	EACH	$2,115.13	$8,460.54
950H LOADER	16.00	HR	$101.58	$1,625.28
OPERATOR	16.00	HR	$45.66	$730.56
LABOR	16.00	HR	$42.16	$674.56
LABOR	16.00	HR	$42.16	$674.56
WACKER COMPACTOR	16.00	HR	$5.00	$80.00
3900 WATERTRUCK	16.00	HR	$61.11	$977.76
OPERATOR	16.00	HR	$45.66	$730.56
420 E BACKHOE W/ HAMMER	16.00	HR	$72.13	$1,154.09
OPERATOR	16.00	HR	$45.66	$730.56
F-250 PICKUP	16.00	HR	$18.16	$290.61
GRADE FOREMAN	16.00	HR	$49.50	$792.00
HAUL/DISPOSE CONCRETE	4.00	LOAD	$684.45	$2,737.80
SUPER 16	8.00	HR	$92.23	$737.80
DUMP FEES (TRASH) (A Estimate)	4.00	LOAD	$500.00	$2,000.00
D 35 - 35 - REMOVE EXISTING BUS BAY AND SHELTER PAD CONCRETE	**1,206.00**	**SF**	**$7.56**	**$9,117.75**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$3.03	$4.12	$0.21	$0.20	$0.00	$0.00	$0.00
Total:	$3,658.24	$4,969.99	$250.00	$239.52	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
REMOVE VALLEY GUTTER AND APRON	1,206.00	SF	$7.56	$9,117.75
SAWCUT VALLEY GUTTER (A Estimate)	2.00	EACH	$119.76	$239.52
REM/LD VALLEY GUTTER	1,206.00	SF	$6.39	$7,705.98
REMOVE/LD S/W, DW (603.00 SF/DY, 2.00 DY)	1,206.00	SF	$6.39	$7,705.98
950H LOADER	16.00	HR	$101.58	$1,625.28
OPERATOR	16.00	HR	$45.66	$730.56
LABOR	16.00	HR	$42.16	$674.56
3900 WATERTRUCK	16.00	HR	$61.11	$977.76
OPERATOR	16.00	HR	$45.66	$730.56
420 E BACKHOE W/ HAMMER	16.00	HR	$72.13	$1,154.09
OPERATOR	16.00	HR	$45.66	$730.56
F-250 PICKUP	16.00	HR	$18.16	$290.61
GRADE FOREMAN	16.00	HR	$49.50	$792.00
HAUL/DISPOSE CONCRETE	5.00	LOAD	$234.45	$1,172.25
SUPER 16	10.00	HR	$92.23	$922.25
DUMP FEES (CONCRETE) (A Estimate)	5.00	LOAD	$50.00	$250.00
D 36 - 36 - REMOVE EXISTING CONCRETE VALLEY GUTTER	**391.00**	**SF**	**$7.35**	**$2,874.43**

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost

(Item 36 - 36 - REMOVE EXISTING CONCRETE VALLEY GUTTER continued)

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$2.34	$3.53	$0.26	$1.23	$0.00	$0.00	$0.00
Total:	$914.56	$1,380.83	$100.00	$479.04	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
REMOVE VALLEY GUTTER AND APRON	391.00	SF	$7.35	$2,874.43
SAWCUT VALLEY GUTTER (A Estimate)	4.00	EACH	$119.76	$479.04
REM/LD VALLEY GUTTER	391.00	SF	$4.93	$1,926.49
REMOVE/LD S/W, DW (782.00 SF/DY, 0.50 DY)	391.00	SF	$4.93	$1,926.49
950H LOADER	4.00	HR	$101.58	$406.32
OPERATOR	4.00	HR	$45.66	$182.64
LABOR	4.00	HR	$42.16	$168.64
3900 WATERTRUCK	4.00	HR	$61.11	$244.44
OPERATOR	4.00	HR	$45.66	$182.64
420 E BACKHOE W/ HAMMER	4.00	HR	$72.13	$288.52
OPERATOR	4.00	HR	$45.66	$182.64
F-250 PICKUP	4.00	HR	$18.16	$72.65
GRADE FOREMAN	4.00	HR	$49.50	$198.00
HAUL/DISPOSE CONCRETE	2.00	LOAD	$234.45	$468.90
SUPER 16	4.00	HR	$92.23	$368.90
DUMP FEES (CONCRETE) (A Estimate)	2.00	LOAD	$50.00	$100.00
37 - 37 - REMOVE AND REINSTALL SIGN (National Barricade Company)	**1.00**	**EACH**	**$350.00**	**$350.00**
38 - 38 - UNIFORMED OFF-DUTY LAW ENFORCEMENT OFFICER (A Estimate)	**240.00**	**HR**	**$75.00**	**$18,000.00**
39 - 39 - LANDSCAPE ESTABLISHMENT (90 DAYS) (CD Development)	**1.00**	**LS**	**$6,000.00**	**$6,000.00**
40 - 40 - SHRUB – 5 GAL, GROUNDCOVER ACCENT (BUSH MORNING GLORY) (CD Development)	**174.00**	**EACH**	**$30.00**	**$5,220.00**
41 - 41 - TREE – 48 IN BOX, 3 IN CAL MIN (CD Development)	**16.00**	**EACH**	**$1,450.00**	**$23,200.00**
42 - 42 - DECOMPOSED GRANITE, 1 ¼ IN SCREENED, 2.5" THICK (MATCH EXISTING COLOR)	**7,800.00**	**SF**	**$1.40**	**$10,886.50**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.27	$0.12	$0.00	$1.00	$0.00	$0.00	$0.00
Total:	$2,138.40	$948.10	$0.00	$7,800.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
DECOMPOSED GRANITE, 1 ¼ IN SCREENED, 2.5" THICK (MATCH EXISTING COLOR)	7,800.00	SF	$1.40	$10,886.50
FINE GRADE DG 1 1/4"	7,800.00	SF	$0.40	$3,086.50
FINE GRADE DG (7,800.00 SF/DY, 1.00 DY)	7,800.00	SF	$0.40	$3,086.50
F-250 PICKUP	8.00	HR	$18.16	$145.30
GRADE FOREMAN	8.00	HR	$49.50	$396.00
414E SKIP LOADER	8.00	HR	$39.24	$313.92
OPERATOR	8.00	HR	$45.66	$365.28
3900 WATERTRUCK	8.00	HR	$61.11	$488.88
OPERATOR	8.00	HR	$45.66	$365.28
LABOR	8.00	HR	$42.16	$337.28
LABOR [2]	8.00	HR	$42.16	$674.56
DECOMPOSED GRANITE, 1 ¼ IN SCREENED, 2.5" THICK (MATCH EXISTING COLOR) (CD Development)	7,800.00	SF	$1.00	$7,800.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
43 - 43 - 4 IN IRRIGATION PIPE SLEEVE (SCH. 40 PVC) (CD Development)	600.00	LF	$57.00	$34,200.00
44 - 44 - PVC IRRIGATION PIPE ¾ IN (SCH.40 PVC) (CD Development)	1,400.00	LF	$3.00	$4,200.00
45 - 45 - PVC IRRIGATION PIPE 1 IN (SCH. 40 PVC) (CD Development)	450.00	LF	$3.00	$1,350.00
46 - 46 - PVC IRRIGATION PIPE 1.5" IN (SCH. 40 PVC) (CD Development)	100.00	LF	$10.00	$1,000.00
47 - 47 - PRESSURE REGULATOR (SENNIGER 30 PSI) (CD Development)	2.00	EACH	$300.00	$600.00
48 - 48 - CONTROLLER, AUTOMATIC (6 STA) (HUNTER XCH BATTERY) (CD Development)	1.00	EACH	$6,000.00	$6,000.00
49 - 49 - BALL VALVE 1.5" BRASS (CD Development)	2.00	EACH	$500.00	$1,000.00
50 - 50 - 1 IN REMOTE CONTROL VALVE, ELECTRIC (HUNTER ICV SERIES) (CD Development)	2.00	EACH	$500.00	$1,000.00
51 - 51 - FLUSH CAP ASSEMBLY (1/2") (CD Development)	8.00	EACH	$50.00	$400.00
52 - 52 - SINGLE OUTLET EMITTER ASSEMBLY (CD Development)	174.00	EACH	$12.00	$2,088.00
53 - 53 - MULTI OUTLET EMITTER ASSEMBLY (6 PORT) (CD Development)	32.00	EACH	$60.00	$1,920.00
54 - 54 - REMOVE EXISTING PAVEMENT MARKINGS (Pavement Marking Inc.)	1.00	LS	$4,500.00	$4,500.00
55 - 55 - 4 IN WHITE TRAFFIC PAINT STRIPE (Pavement Marking Inc.)	10,785.00	LF	$0.80	$8,628.00
56 - 56 - 4 IN WHITE THERMOPLASTIC TRAFFIC STRIPE (Pavement Marking Inc.)	3,387.00	LF	$0.64	$2,167.68
57 - 57 - 4 IN YELLOW TRAFFIC PAINT STRIPE (Pavement Marking Inc.)	4,305.00	LF	$0.90	$3,874.50
58 - 58 - PREFORMED SYMBOL BIKE LANE MARKING SET (Pavement Marking Inc.)	6.00	EACH	$245.00	$1,470.00
59 - 59 - THERMOPLASTIC/PREFORMED SYMBOL LEFT TURN ARROW (Pavement Marking Inc.)	4.00	EACH	$350.00	$1,400.00
60 - 60 - THERMOPLASTIC/PREFORMED SYMBOL RIGHT TURN ARROW (Pavement Marking Inc.)	2.00	EACH	$195.00	$390.00
61 - 61 - PAVEMENT MARKER, RAISED TYPE G (Pavement Marking Inc.)	150.00	EACH	$3.50	$525.00
62 - 62 - PERFORATED SIGN POST (National Barricade Company)	14.00	LF	$25.00	$350.00
63 - 63 - PERFORATED SIGN POST FOUNDATION (COMPLETE) (National Barricade Company)	2.00	EACH	$175.00	$350.00
64 - 64 - REPLACE EXISTING NO.9 PULL BOX LID WITH TORSION ASSIST SPRING LID. (Roadway Electric LLC.)	2.00	EACH	$3,169.00	$6,338.00
65 - 65 - APS LIGHTING PULL BOX (COTRACTOR SUPPLIED AND INSTALLED) (NO. 3 ½) (SL-14A & SL-14C) (Roadway Electric LLC.)	1.00	EACH	$535.00	$535.00
66 - 66 - SCH. 40 PVC ELECTRICAL CONDUIT, 1 IN (BETWEEN PULL BOX & STREET LIGHT POLE) (Roadway Electric LLC.)	45.00	LF	$32.50	$1,462.50

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
67 - 67 - SCH. 40 PVC ELECTRICAL CONDUIT, 2.5" IN (BETWEEN STREET LIGHT POLES) (Roadway Electric LLC.)	275.00	LF	$25.00	$6,875.00
68 - 68 - REMOVE AND RELOCATE EXISTING VIDEO DETECTION CAMERA AND LUMINAIRE INSTALL NEW VIDEO DETECTION CAMERA AND EXISTING LUMINAIRE ON NEW MAST ARM (Roadway Electric LLC.)	2.00	EACH	$14,875.00	$29,750.00
69 - 69 - REMOVE EXISTING VIDEO DETECTION CAMERA AND INSTALL NEW VIDEO DETECTION CAMERA AND VIDEO DETECTION CABLES (Roadway Electric LLC.)	2.00	EACH	$14,525.00	$29,050.00
70 - 70 - TRAFFIC SIGNAL (RELOCATE EXISTING SIGNAL HEAD) (Roadway Electric LLC.)	8.00	EACH	$215.00	$1,720.00
71 - 71 - INSTALL NEW PEDESTRIAN PUSH BUTTON AND PEDISTAL (Roadway Electric LLC.)	2.00	EACH	$2,082.00	$4,164.00
72 - 72 - REMOVE AND RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD, PEDESTRIAN PUSH BUTTON, DETECTOR, (Roadway Electric LLC.)	2.00	EACH	$1,815.00	$3,630.00
73 - 73 - SCHEDULE 40 2" CONDUIT FOR SIGNAL IMPROVEMENTS (Roadway Electric LLC.)	100.00	LF	$26.00	$2,600.00
74 - 74 - SCHEDULE 40 4" CONDUIT FOR SIGNAL IMPROVEMENTS (Roadway Electric LLC.)	320.00	LF	$88.00	$28,160.00
75 - 75 - INSTALL NEW NO. 7 PULL BOX FOR SIGNAL (Roadway Electric LLC.)	1.00	EACH	$898.00	$898.00
76 - 76 - FURNISH AND INSTALL NEW 55' SIGNAL MAST ARM (Roadway Electric LLC.)	1.00	EACH	$8,315.00	$8,315.00
77 - 77 - RELOCATE EXISTING SIGNAL CABLE FOR MAST ARM AND PEDESTRIAN PEDISTALS INSIDE NEW 4" CONDUIT. RE-UTILIZE EXISTING NO. 7 PULL BOX AS IDENTIFIED IN THE PLANS (Roadway Electric LLC.)	140.00	LF	$8.50	$1,190.00
78 - 78 - INSTALL NEW CCTV AXIS P5635-E MK II PAN-TILT -ZOOM (PTZ) CAMERA ON EXISTING LUMINAIRE POLE (Roadway Electric LLC.)	1.00	EACH	$3,488.00	$3,488.00
79 - 79 - DIRECTIONAL DRILL (CONDUITS RUNS FOR SIGNALS) (Roadway Electric LLC.) CE - 3/18/2021 5:13 PM: CHANGE QTY FROM 420 TO ZERO BASED ON ROADWAY TAKEOFF	0.00	LF	$0.00	$0.00
80 - 80 - SIGNAL CABLE (#14 CONDUCTOR 20-1 IMSA SIGNAL CABLES) (Roadway Electric LLC.)	1,500.00	LF	$5.60	$8,400.00
81 - 81 - FURNISH & INSTALL NEW SIGNAL POLE FOUNDATION, RELOCATE EXISTING SIGNAL POLE, MAST ARM, & LUMINAIRE (Roadway Electric LLC.)	2.00	EACH	$4,600.00	$9,200.00
82 - 82 - FURNISH & INSTALL STREET LIGHT POLE AND FOUNDATION PER COC UDM STD DTL SL1 AND SECTION 2.2 USE EXISTING LUMINAIRE (Roadway Electric LLC.)	4.00	EACH	$4,165.00	$16,660.00
83 - 83 - RELOCATE EXISTING STREET LIGHT POLE, MAST ARM, AND LUMINARE TO NEW FOUNDATION PER COC UDM STD DTL SL1 (Roadway Electric LLC.)	4.00	EACH	$2,000.00	$8,000.00
84 - 84 - FURNISH & INSTALL TYPE II 133 WATT LED COOPER LIGHTING MODEL NVN-AE-03-E-U-SL2-10K-4-AP (Roadway Electric LLC.) CE - 3/18/2021 5:14 PM: CHANGE QTY FROM 6 TO 0 BASED ON ROADWAY TAKEOFF	6.00	EACH	$500.00	$3,000.00
85 - 85 - SCHEDULE 40 2" QUAD DUCT WITH 12 AWG TRACER WIRE AND PULL TAPE. CONDUIT COLORS, 1-BLACK, 3-GRAY (Roadway Electric LLC.)	1,016.00	LF	$46.00	$46,736.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
(Item 85 - 85 - SCHEDULE 40 2" QUAD DUCT WITH 12 AWG TRACER WIRE AND PULL TAPE. CONDUIT COLORS, 1-BLACK, 3-				
86 - 86 - INSTALL NEW 144 SMFO IN BLACK CONDUIT. INSTALL 12 AWG TRACER WIRE AND MULE TAPE IN ALL CONDUITS. (Roadway Electric LLC.)	**1,016.00**	**LF**	**$7.95**	**$8,077.20**
87 - 87 - INSTALL NEW 144 SMFO AND 12 AWG TRACER WIRE AND MULE TAPE IN EXISTING CONDUIT (Roadway Electric LLC.)	**2,427.00**	**LF**	**$7.95**	**$19,294.65**
87.5 - 87.5 - INSTALL NEW 144 SMFO AND 12 AWG TRACER WIRE AND MULE TAPE IN EXISTING CONDUIT (WILLIS TO GERMANN) (Roadway Electric LLC.)	**2,775.00**	**LF**	**$7.95**	**$22,061.25**
88 - 88 - FURNISH & INSTALL SPLICE ENCLOSURE (Roadway Electric LLC.)	**2.00**	**EACH**	**$1,610.00**	**$3,220.00**
89 - 89 - SCHEDULE 40 3" CONDUIT FOR ITS IMPROVEMENTS (Roadway Electric LLC.)	**38.00**	**LF**	**$160.00**	**$6,080.00**
90 - 90 - DIRECTIONAL DRILL (ITS CONDUIT RUNS) (Roadway Electric LLC.)	**0.00**	**LF**	**$0.00**	**$0.00**
CE - 3/18/2021 5:15 PM: CHANGE QTY FROM 1054 TO 0 BASED ON ROADWAY TAKEOFF				
91 - 91 - 12 PORT GATOR PATCH CABLE ASSEMBLY (Roadway Electric LLC.)	**3.00**	**EACH**	**$1,635.00**	**$4,905.00**
CE - 3/18/2021 5:16 PM: CHANGE QTY FROM 1 TO 3 BASED ON ROADWAY TAKEOFF				
92 - 92 - REMOVE EXISTING TWISTED PAIR, PROTECT IN PLACE EXISTING CONDUIT, CONDUCTORS AND FIBER OPTIC CABLE (Roadway Electric LLC.)	**908.00**	**LF**	**$0.60**	**$544.80**
93 - 93 - INSTALL ETHERWAN EX73931-0VB WITH FOUR EX-1250TSP-MB5L-A SFP AND EX41-136046 POWER SUPPLY. SALVAGE EXISTING ETHERNET SWITCH (Roadway Electric LLC.)	**2.00**	**EACH**	**$4,647.00**	**$9,294.00**

94 - 94 - ALLOWANCE: ROADWAY WORK — **1.00 AL** — **$0.00** — **$0.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

95 - 95 - ALLOWANCE: CONCRETE WORK — **1.00 AL** — **$0.00** — **$0.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

96 - 96 - ALLOWANCE: LANDSCAPING — **1.00 AL** — **$0.00** — **$0.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

97 - 97 - ALLOWANCE: TRAFFIC SIGNAL AND COMMUNICATIONS FACILITIES — **1.00 AL** — **$0.00** — **$0.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

98 - 98 - ALLOWANCE: SRP ELECTRICAL — **1.00 AL** — **$0.00** — **$0.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

99 - 99 - ALLOWANCE: APS ELECTRICAL — **1.00 AL** — **$0.00** — **$0.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost

(Item 99 - 99 - ALLOWANCE: APS ELECTRICAL continued)

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
100 - 100 - ALLOWANCE: UTILITIES	**1.00**	**AL**	**$0.00**	**$0.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
101 - 101 - ALLOWANCE: REMOVALS	**1.00**	**AL**	**$0.00**	**$0.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
102 - 102 - ALLOWANCE: UNSUITIBLE SOILD	**1.00**	**AL**	**$0.00**	**$0.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
103 - 103 - ALLOWANCE: (UNFORSEEN CONDITIONS)	**1.00**	**AL**	**$0.00**	**$0.00**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total:	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
104 - 104 - TRAFFIC CONTROL	**1.00**	**LS**	**$181,861.20**	**$181,861.20**

	Labor	Equipment	Material	Subcontracted	Trucking	Miscellaneous	Plug
Unit:	$3,500.00	$0.00	$3,500.00	$174,861.20	$0.00	$0.00	$0.00
Total:	$3,500.00	$0.00	$3,500.00	$174,861.20	$0.00	$0.00	$0.00

Description	Quantity	UM	Unit Direct Cost	Total Direct Cost
TRAFFIC CONTROL	1.00	LS	$181,861.20	$181,861.20
BARRICADES	1.00	LS	$166,861.20	$166,861.20
BARRICADE MOBE (A Estimate)	1.00	EACH	$6,800.00	$6,800.00
NB/SB SANDBAG/FLAG/TC PLAN (A Estimate)	1.00	LS	$1,284.00	$1,284.00
NB/SB LANE SHIFTS EQUIPMENT (A Estimate)	60.00	DY	$547.80	$32,868.00
NB/SB OFF PEAK LANE DROP LABOR (A Estimate)	60.00	DY	$1,800.00	$108,000.00
SINGLE LANE SANDBAG/FLAG/TC PLAN (A Estimate)	1.00	LS	$171.20	$171.20
SINGLE LANE CLOSURE LABOR (A Estimate)	8.00	DY	$750.00	$6,000.00
SINGLE LANE CLOSURE EQUIPMENT (A Estimate)	80.00	DY	$91.10	$7,288.00
VMS BOARDS (A Estimate)	30.00	DY	$65.00	$1,950.00
MISC SERVICE (A Estimate)	1.00	LS	$2,500.00	$2,500.00
SHADOW TRUCK INTXN (A Estimate)	160.00	HR	$50.00	$8,000.00
ADA COMPLIANCE	1.00	LS	$7,000.00	$7,000.00

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PLANS AND SPECIFICATIONS

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ALMA SCHOOL ROAD IMPROVEMENTS II GMP DOCUMENTS

LIST OF PLANS AND SPECIFICATIONS USED IN THE FORMATION OF THE GMP

ALMA SCHOOL ROAD IMPROVEMENTS
CITY PROJECT NO. ST2004.403
CIVIL PACKAGE PLANS
DATED: MARCH 5, 2021
SEALED SUBMITTAL
PREPARED BY: WOOD ENVIRONMENT & INFRASTRUCTURE
SHEETS 1-21

ALMA SCHOOL ROAD IMPROVEMENTS
PROJECT NO. ST2004.401
LANDSCAPE PACKAGE PLANS
PREPARED BY: HARRINGTON PLANNING + DESIGN (HP+D)
DATED: JANUARY 15, 2021
SEALED SUBMITTAL
SHEETS 22-29

ALMA SCHOOL ROAD IMPROVEMENTS
PECOS ROAD TO FAIRVIEW ROAD
PROJECT NO. ST2004
FINAL TECHNICAL SPECIFICATIONS
PREPARED BY: WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
DATED: JANUARY 15, 2021
PAGES: 88

CLARIFICATIONS AND ASSUMPTIONS

ALMA SCHOOL ROAD IMPROVEMENTS CMAR GMP DOCUMENTS

CLARIFICATIONS & ASSUMPTIONS

GENERAL CLARIFICATIONS

1. Price assumes no import of dirt material for landscaping or roadway construction.
2. Traffic control:

   Assumes shifting both northbound and southbound traffic outside to the bike lane for the duration of construction. Off peak single lane closure will be allowed both northbound and southbound (9AM – 4PM).

   Outside single lane closures will be permitted for electrical work, 24 hour setups allowed after moratorium.

   Inside single lane closures will be permitted for landscape work, 24 hour setups allowed after moratorium.
3. Price is based on quantities in provided bid schedule. These quantities were derived from final plans. Additional work not shown on the final plans has been included/excluded based on written or verbal direction, finalized in 03/22/2021 meeting. Additional quantities or items not identified in the bid schedule to be paid from Owner's Allowance.
4. Full contract dollar amount to be insured, including allowances. Reimbursement for insurance costs above those listed in GMP Table, item D2, will be paid in full out of Owner's Allowance at start of project.
5. Items reimbursed under Owner's Allowance will have the contractors fee (8%), tax (65% of 7.8% = 5.07%), and Bond (1%) added to the direct cost, summed in the same manner as the GMP table. The cost of insurance will not be added to the direct cost of items reimbursed under the Owner's Allowance, as it is paid per General Clarification #4 above.
6. Landscape restoration required for contract work shall be paid out of allowance.
7. Bid item allowances (Bid Items 94-103) removed per City direction. Owner's Allowance items added after markups.
8. General Conditions bid at $0.00 for work completed before July 31, 2021. Should work extend beyond July 31, 2021 for reasons outside of contractors control, general conditions to be negotiated with City.

BID ITEMS

Bid Item 0.5 – Quality Control. Added item necessary to completion of construction.

Bid Item 4 – Clearing and Grubbing. Limits to include entire area of existing median as well as outside widening footprint.

Bid Item 5 – Remove Tree, Diameter >12 In. All trees removed to be paid under this item regardless of caliper size.

Bid Item 6 – Subgrade Preparation. Includes MAG specification scarify/re-compact, roadway ex, job water and potholing. Excludes over-excavation and/or unsuitable material mitigation. Quantity increased to include 8' minimum widths to allow proper grading/paving/compaction equipment.

Bid Item 7 – Aggregate Base (12"). Quantity increased to include 8' minimum widths to allow proper grading/paving/compaction equipment.

Bid Item 8 – Asphaltic Concrete (2in Surface Course). Quantity increased to include 8' minimum widths to allow proper grading/paving/compaction equipment. Quantity includes the area of 2' milling.

Bid Item 9 – Asphaltic Concrete (3in Base Course). Quantity increased to include 8' minimum widths to allow proper grading/paving/compaction equipment.

Bid Item 10 – Bituminous Tack Coat. Quantity increased to include 8' minimum widths to allow proper grading/paving/compaction equipment. Quantity includes the area of 2' milling.

Bid Item 11.5 – Crack Seal. Added item necessary to completion of construction. Quantity estimate only. Actual quantities to be paid.

Bid Item 22 – Adjust Manhole Frame & Cover. Quantity includes all manholes including those in the median. Polymer adjustment rings, frame, and cover to be provided by City if required.

Bid Item 43 – 2 In Irrigation Sleeve. Item bid as 4" per City standard, to be bored.

Bid Item 79 – Directional Drill (Conduit Runs For Signals). Item not bid. Directional drilling included in necessary conduit items.

Bid Item 87.5 – Install new 144 SMFO. – Added item per City direction. Intended to cover distance of fiber pull from Willis Rd to Germann Rd.

Bid Item 90 – Directional Drill (ITS Conduit Runs). Item not bid. Directional drilling included in necessary conduit items.

Owners Allowance. – Estimate, 10% of direct costs.

Allowance – Unsuitable Subgrade. – Cost to cement treat all subgrade within project limits (3059 SY), including two cement treat mobilizations and regrading of cement treat material.

Allowance – Traffic Signals. – Cost to provide new signal poles (2 EA), 55' mast arms (1 EA), 20' mast arms (2 EA), mounting assembly's (8 EA), signal faces (8 EA), luminaires (2 EA) and conductor. Amount requested by City as an option to provide new material in lieu of relocate.