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Municipal Design · Infrastructure Engineering · Construction Management · Land Surveying

**PROJECT: COUNTY OF IMPERIAL CORRELL SUBDIVISION
RETENTION BASIN IMPROVEMENT PROJECT
THG PROJECT NO. 744.057E**

DATE: March 13, 2015

**ENGINEER'S OPINION OF
PROBABLE COST**

<u>Item No</u>	<u>Item</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Quantity</u>	<u>Total Cost</u>
1	MOBILIZATION	L.S.	\$8,500.00	1	\$8,500.00
2	CONSTRUCTION STAKING PER ITEM NO. 9 OF GENERAL CONDITIONS OF THE SPECIFICATIONS.	L.S.	\$4,200.00	1	\$4,200.00
3	GEOTECHNICAL TESTING PER ITEM NO. 9 OF SPECIAL CONDITIONS OF THE SPECIFICATIONS.	L.S.	\$8,000.00	1	\$8,000.00
4	TRAFFIC CONTROL REQUIREMENTS PER ITEM NO. 4 OF SPECIAL CONDITIONS OF THE SPECIFICATIONS.	L.S.	\$1,000.00	1	\$1,000.00
5	EROSION CONTROL PLAN IMPLEMENTATION PER PLAN SHEET 6 OF IMPROVEMENT PLANS.	L.S.	\$1,000.00	1	\$1,000.00
6	REMOVE AND DISPOSE OF EXISTING P.C.C. HEADWALL STRUCTURE PER DEMOLITION KEYNOTE NO. 1 ON PLAN SHEET 2.	EACH	\$300.00	1	\$300.00
7	REMOVE AND DISPOSE OF EXISTING 18-INCH STORM DRAIN PIPELINE PER DEMOLITION KEYNOTE NO. 2 ON PLAN SHEET 2.	L.F.	\$10.00	18	\$180.00

<u>Item No</u>	<u>Item</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Quantity</u>	<u>Total Cost</u>
8	CONTRACTOR TO REMOVE (CUT) NATIVE MATERIAL AS NECESSARY TO ACHIEVE DESIGN GRADES PER GRADING PLAN SHEET 3 AND PER DEMOLITION KEYNOTE NO. 4 ON PLAN SHEET 2.	CYD	\$7.00	4024	\$28,168.00
9	CONTRACTOR TO REMOVE AND RELOCATE THE EXISTING -FOOT HIGH 12-FOOT WIDE SWING GATE PER DEMOLITION KEYNOTE NO. 5 ON PLAN SHEET 2.	L.S.	\$600.00	1	\$600.00
10	CONTRACTOR SHALL CORE THE EXISTING STORM JUNCTION MANHOLE PER DEMOLITION KEYNOTE NO. 6 ON PLAN SHEET 2.	EACH	\$570.00	2	\$1,140.00
11	INSTALL CLASS 2 BASE MATERIAL PER CONSTRUCTION KEYNOTE NO. 1 ON PLAN SHEET 3 AND UNDERNEATH P.C.C. HEADWALL STRUCTURE. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY.	TONS	\$35.00	544	\$19,040.00
12	GRADE AND PLACE NATIVE MATERIAL TO DESIGN GRADE PER CONSTRUCTION KEYNOTE NOS. 2 & 3 ON PLAN SHEET 3. COMPACT THE NATIVE MATERIAL TO 85 PERCENT MAXIMUM DENSITY AT THE BOTTOM OF THE RETENTION BASIN AND 90 PERCENT OF MAXIMUM DENSITY AT THE SIDE SLOPES AND TOP OF EMBANKMENTS, AND ACCESS ROAD AREAS ETC. (FILL).	CYD	\$7.00	4220	\$29,540.00
13	INSTALL 18-INCH DIAMETER PVC STORM WATER PIPELINE FROM RETENTION BASINS TO JUNCTION MANHOLE PER CONSTRUCTION KEYNOTE NO. 4 ON PLAN SHEET 3.	L.F.	\$55.00	47	\$2,585.00
14	INSTALL NEW P.C.C. HEADWALL STRUCTURE PER CONSTRUCTION KEYNOTE NO. 5 ON PLAN SHEET 3.	EACH	\$2,400.00	1	\$2,400.00
15	INSTALL 12-INCH DIAMETER PVC STORM WATER PIPELINE PER CONSTRUCTION KEYNOTE NO. 6 ON PLAN SHEET 3.	L.F.	\$45.00	28	\$1,260.00

<u>Item No</u>	<u>Item</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Quantity</u>	<u>Total Cost</u>
16	INSTALL NEW STORM WATER CATCH BASIN WITH OPEN GRATE PER CONSTRUCTION KEYNOTE NO. 7 ON PLAN SHEET 3.	EACH	\$2,750.00	1	\$2,750.00
17	CONTRACTOR SHALL CONNECT NEW 18-INCH SDR 26 PVC PIPELINE TO THE EXISTING P.C.C. STORM JUNCTION MANHOLE PER CONSTRUCTION KEYNOTE NO.8 ON PLAN SHEET 3. THE CONNECTION TO THE EXISTING MANHOLE SHALL BE MADE WITH A CIRCULAR CONCRETE CORING MACHINE. THE CONNECTION SHALL NOT BE ACCOMPLISHED WITH A JACK-HAMMER. INSTALL NON-SHRINK GROUT IN THE ANNULAR OPENING BETWEEN THE EXTERIOR OF THE PIPELINE AND SAWCUT OPENING FLUSH WITH THE INTERIOR AND EXTERIOR MANHOLE WALL FACE. INSTALL PIPELINE PER DETAIL D ON SHEET 5.	EACH	\$900.00	2	\$1,800.00
18	INSTALL 12-FOOT WIDE CHAIN LINK FENCE GATE AND GAP SECTION PER CONSTRUCTION KEYNOTE NO. 9 ON PLAN SHEET 3.	L.S.	\$2,800.00	1	\$2,800.00
19	INSTALL NEW 12-INCH FLAPPER VALVE PER CONSTRUCTION KEYNOTE NO. 10 ON PLAN SHEET 3.	EACH	\$850.00	1	\$850.00
20	STORMWATER PUMP STATION REHABILITATION PER DEMOLITION KEYNOTE NO. 7 ON PLAN SHEET 2, CONSTRUCTION KEYNOTE NO. 11 ON PLAN SHEET 3 AND ITEM NO. 13 OF SPECIAL CONDITIONS OF THE SPECIFICATIONS.	L.S.	\$7,360.00	1	\$7,360.00
21	CLEAN THE CORRELL SUBDIVISION STORMWATER COLLECTION SYSTEM INCLUDING MANHOLES, CATCH BASIN AND PIPELINES OF TRASH AND DEBRIS. REMOVAL/ RELOCATION OF TREES, SHRUBS, PLANTS (TO BE COMPLETED BY HPUD)	LUMP SUM	\$0.00	1	\$0.00

