APPENDIX M
ROUGH ORDER OF MAGNITUDE COST
ESTIMATES





HONOLULU HARBOR 2050 MASTER PLAN ESTIMATED COST OF CONSTRUCTION

For

State of Hawai'i, Department of Transportation, Harbors Division



HONOLULU HARBOR MASTER PLAN SUMMARY SHEET

ESTIMATED ROUGH ORDER OF MAGNITUDE CONSTRUCTION COSTS

.0/10/2022

			Annual Cost Escalation =					5.00%
Master Plan Recommended Improvements		1/1/2023		1/1/2030		1/1/2040		1/1/2050
Harbor-Wide Improvements	\$	81,500,000	\$	114,683,000	\$	186,795,000	\$	304,290,000
Lay berth Improvements		\$3,845,000	\$	5,411,000	\$	8,814,000	\$	14,359,000
Piers 1A, 1B, and 2A - Multi-Use Pier Reconstruction		\$435,212,000	\$	612,408,000	\$	997,482,000	\$	1,624,902,000
Pier 2 - Cruise Terminal Pier Upgrades		\$296,368,000	\$	417,034,000	\$	679,260,000	\$	1,106,517,000
Pier 2-DOH Building Renovation		\$10,000,000	\$	14,072,000	\$	22,921,000	\$	37,339,000
Pier 5 & 6 and Mini Park - Maritime Upgrades		\$512,344,000	\$	720,944,000	\$	1,174,264,000	\$	1,912,881,000
Piers 7 to 11 Aloha Tower Area Improvements		\$171,071,000	\$	240,723,000	\$	392,087,000	\$	638,712,000
Piers 12-15 Modernization		\$29,742,000	\$	41,852,000	\$	68,168,000	\$	111,046,000
Piers 16-18 Fishing Pier Improvements		\$75,653,000	\$	106,455,000	\$	173,393,000	\$	282,458,000
Piers 19 and 20 Multi-purpose Cargo Terminal		\$188,184,000	\$	264,803,000	\$	431,308,000	\$	702,603,000
Piers 21 and 22 "Tug Row" Improvements		\$114,397,000	\$	160,974,000	\$	262,193,000	\$	427,114,000
Piers 22 and 23 Maritime Support Pier Improvements		\$173,474,000	\$	244,104,000	\$	397,594,000	\$	647,682,000
Piers 19 and 23 Maritime Center		\$409,788,000	\$	576,633,000	\$	939,212,000	\$	1,529,980,000
Piers 24 to 29A Maritime Support Pier Improvements		\$510,499,000	\$	718,348,000	\$	1,170,036,000	\$	1,905,993,000
Pier 29 Multi-purpose Cargo Pier Improvements		\$91,400,000	\$	128,614,000	\$	209,485,000	\$	341,252,000
Piers 31 to 34 Multi-purpose Cargo Terminal Improvements		\$363,729,000	\$	511,821,000	\$	833,647,000	\$	1,358,014,000
Pier 35 UH Research Pier		\$135,604,000	\$	190,815,000	\$	310,797,000	\$	506,290,000
Pier 36 Fishing Village Pier Extension		\$74,896,000	\$	105,390,000	\$	171,658,000	\$	279,632,000
Pier 38 Fishing Village Pier Improvements and Expansion		\$70,892,000	\$	99,756,000	\$	162,482,000	\$	264,684,000
Pier 38 Maritime Support Area Improvements		\$17,462,000	\$	24,572,000	\$	40,023,000	\$	65,198,000
Piers 39 to 41 Interisland Terminal Modernization		\$898,384,000	\$	1,264,159,000	\$	2,059,045,000	\$	3,354,192,000
Piers 51-53 Sand Island Terminal Improvements		\$1,124,275,000	\$	1,582,021,000	\$	2,576,774,000	\$	4,197,574,000
Pier 60 Aggregate and Cargo Pier Improvements		\$146,037,000	\$	205,496,000	\$	334,709,000	\$	545,243,000
	\$	5,934,756,000	\$	8,351,088,000	\$	13,602,147,000	\$	22,157,955,000
Piers 1 & 2 Consolidated Cruise Terminal Options and Alternatives								
Passenger Access Option 1 - Mobile Staging Equipment	\$	750,000	Ś	1,056,000	Ś	1,720,000	Ś	2,802,000
Passenger Access Option 2 - Elevated Retractable Walkway	\$	•	\$	20,897,000		34,037,000	\$	55,447,000
Terminal Building Option 1 - Renovate/Consolidate Existing Building	\$	40,000,000	\$	56,286,000		91,678,000	\$	149,344,000
Terminal Building Option 2 - New Semi-Permanent Terminal Structure	\$		\$	17,590,000		28,651,000	\$	46,673,000
Terminal Building Option 3 - New Permanent Terminal Structure	\$	50,000,000		70,358,000		114,599,000		186,683,000
Alternative 1 - Semi-Permanent Terminal Structure / Mobile Staging Equip.	\$	13,250,000	¢	18,645,000	¢	30,369,000	¢	49,472,000
Alternative 2a - Renovate Existing Terminal Bldg. / Mobile Staging Equip.	\$, ,	\$	57,342,000		93,398,000	\$	152,146,000
Alternative 2b - Renovate Existing Terminal Bldg. / Elevated Walkway	\$	54,850,000	\$	77,183,000		125,715,000	\$	204,791,000
Alternative 3a - New Permanent Terminal Bldg. / Mobile Staging Equip.	\$	50,750,000	•	71,413,000		116,317,000	•	189,481,000
Alternative 3b - New Permanent Terminal Bldg. / Elevated Walkway	\$			91,254,000		148,634,000		242,126,000
Attendative 35 New Fernianent Ferniana Blug. / Lievated Walkway	ڔ	0-7,000,000	Y	31,234,000	Y	170,034,000	Y	242,120,000

Notes: • Cost estimate values for recommended improvement items are rounded up to the nearest thousandths in the Summary Sheet.

[•] ROM estimates represent a broad approximation of a project's cost. Costs attributes for the Kapalama Container Terminal were used as the baseline to derive ROM estimates for selected HHMP projects. These costs will be refined as projects concepts are developed and specific uses and needs are identified.

HARBOR-WIDE IMPROVEMENTS - EMERGENCY ACCESS RAMP & DREDGING

- Develop an emergency access boat ramp within Honolulu Harbor for pilots, jet skis and other emergency water vehicles (Consider Pier 27E, Pier 38 maritime support area, or continue to use the Sand Island Boat Ramp).
- Deepen the operational draft of the pier side of all cargo piers. Dredge water depths along the pier face to accommodate the greatest variety of vessels to allow for operational flexibility.
 - Minimum recommended dredged depth at cargo piers affected by wave energy (Piers 1 and 2, 19 and 20) = 45 FT.
 - Minimum recommended dredged depth at cargo piers in protected areas of the harbor (Piers 29, 31 to 33, Interisland Terminal, KCT and Sand Island Terminal) = 43 FT.

Item	Unit	Quantity	Unit Cost*	Cost	
Develop emergency access boat ramp	L.S.	L.S.	L.S.		\$1,500,000
Dredge to 43 to 45 ft deep at piers 1, 2, 19, 20, 29, 39, 40, 51, 52 and 53	per pier	10	\$7,000,000.00		\$70,000,000
Coral Transplantation at each piers 1, 2, 19, 20, 29, 39, 40, 51, 52 and 53	per pier	10	\$ 1,000,000		\$10,000,000
TOTAL					\$81,500,000

^{*} Based on prior project experience

^{*} Based on Kapalama Wharf and Dredging cost per pier

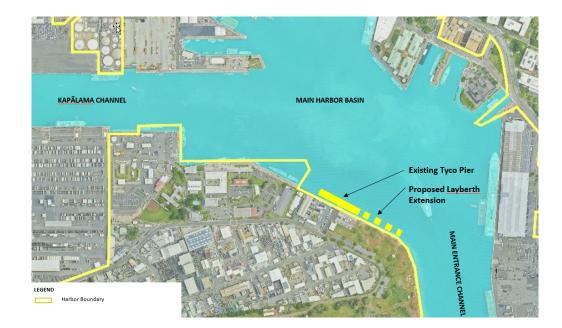
^{*} Assume minimal Coral Transplantation (deep areas have limited coral growth)

LAY BERTH IMPROVEMENTS - EXTEND TYCO PIER BERTH LENGTH

Tyco Pier - Install two or three new dolphins along Sand Island revetment to extend the Tyco Pier mooring length from approximately 600 LF existing (utilizing the existing two dolphins and the Tyco Pier) to approximately 1,200 LF.

Item	Unit	Quantity	Unit Cost*	Cost
Install dolphins along sand island revetment	ea	3	\$1,281,412.04	\$3,844,236.11
TOTAL				\$3,844,236

* Based on 20907 Pier 15 Bid



PIERS 1A, 1B, & 2A MULTI-USE CARGO TERMINAL MODERNIZATION

Reconstruct Piers 1A, 1B and 2A

Cut back Piers 1A and 1B pier face to fast land (approximatley 75 lf in from existing pier face) and shift the knuckle between Piers 1B and 2A mauka to create more pier side ship berthing space outside of the harbor entrance channel navigation corridor.

Pier Length 1A-2A = 1.600 If (portion designated for cargo pier) Pier Length 1A-2A cutback = 1,630 If

Raise pier and yard to to adapt to projected 3.2 ft SLR by 2060 and maintain minimum design freeboard of 6 feet to accommodate full range of barge and Ro/Ro vessel operations. (Note: Recommend raising the entire yard area rather than constructing a raised apron due to the terminal's function as a primary resiliency pier.)

Pier Length = 1,630 lf (cutback / reconstructed length) Yard / Pier Existing Elevation above MLLW (2019) = 7.25 ft Yard / Pier Proposed Elevation above MLLW (2019) = 11.10 ft Yard / Pier Elevation Increase = 3.85 ft

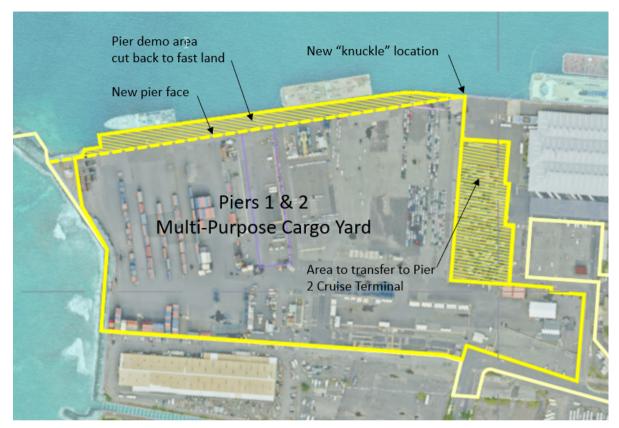
Yard Area Existing = 1,524,545 sf

Proposed Demo Area (pier cutback) = 82,900 sf / 1.90 ac

Proposed Transfer Area to Cruise Terminal: 112,424 sf2

Proposed 2050 Yard Area = 1,329,221 sf / 30.51 ac Proposed Fill Volume = 189,537 cy / 117.48 ac-ft

- Reconstruct and strengthen Piers 1A, 1B and 2A apron and yard.
- Reconstruct pier using sheet-pile/bulkhead design.
- Incorporate wave dampening measures into the sheet-pile construction to diffuse wave energy from south swells and storm surge. Requires ocean engineering study to design wave dampening system and upgrading the pier to handle the wave loading. The system will augment the standard bulkhead pier construction.
- Modernize fendering and bollards
- Repave Piers 1A, 1B and 2A yards with concrete
- Install heavy lift pads for mobile cranes and Ro-Ro ramps. Consider 6,000 psi-strength concrete and special coating for heavy lift pads.
- Install reinforced utility conduit to support the pier's function as a resiliency pier.



Item	Unit	Quantity	Unit Cost*	Cost
Cut back and demolish pier and apron.	If	1,630	\$10,611.92	\$17,297,425
Reconstruct Piers 1A, 1B, and 2A Yard	ac	30.50	\$3,649,872.84	\$111,321,122
Additional Fill Material	ac-ft	117.50	\$252,141.49	\$29,626,625
Construct bulkhead pier, bollards (100-ton) and fenders	If	1,630.00	\$148,654.13	\$242,306,224
Wave dampening measures	If	1,630.00	\$20,000.00	\$32,600,000
Heavy Lift Pads	ea	2.00	\$780,000.00	\$1,560,000
Reinforced utility conduit	L.S.	L.S.	L.S.	\$500,000
TOTAL				Ć42E 244 20C

- * Based on KCT Wharf and Dredging cost per LF for demolition.
- * Based on KCT cost per acre
- * Based on KCT cost for fill
- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on professional assumptions. Ocean engineering study required.
- * 150'x100'x2' or 1,111 cy at \$700/cy
- * Assume replacement of covers and that existing utilities will not be affected

TOTAL \$435.211.396

PIERS 1 AND 2 CONSOLIDATED CRUISE TERMINAL IMPROVEMENTS

Passenger Access Option 1 Temporary/Mobile Staging

1 Use temporary, mobile equipment for cruise vessels berthed at Pier 1 (gangway, water barriers, covered awnings for ship-side staging areas).

Passenger Access Option 2 Elevated Walkway

2 Create an elevated, retractable walkway from the Pier 2 terminal building "knuckle" between Piers 1B and 2A to extend approximately 1,200 LF from the Pier 2 terminal building to the mid-ship point of a cruise ship berthed at Piers 1A-B.

Facility Option 1

Renovate Existing Pier 2B Terminal for Two-Vessel Operations

3 Renovate the existing Pier 2 cruise terminal to simultaneously accommodate two cruise vessel operations.

Facility Option 2

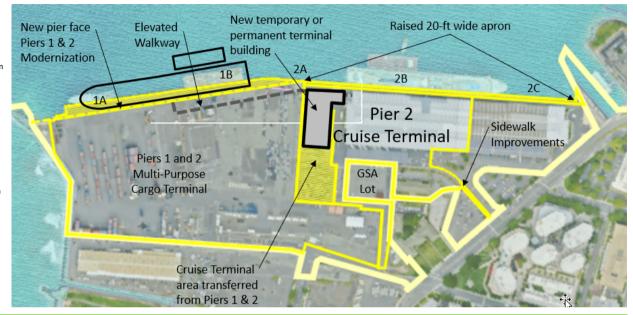
Temporary/Semi-Permanent Structure at Pier 2A

4 Install a temporary tension-fabric structure at Pier 2A to accommodate passenger operations (security and health screening, baggage, orientation

Facility Option 3

New Permanent Structure at Pier 2A

Construct a new cruise terminal building in the Pier 2A yard makai of the existing Pier 2 Cruise Terminal building Integrate into the new terminal building hardened, high-cube facilities for pre-staging emergency equipment (e.g., generators and fuel tanks) for disaster events and for storage of large/heavy maritime cargo handling and servicing equipment.



Passenger Acces	ss Option 1 -	Temporary,	Mobile Staging	Equipment
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Item	Unit	Quantity	Unit Cost*	Cost	
Gangway, Water Barriers, Covered Awnings	ls				\$750,000

Passenger Access Option 2 - Elevated Retractable Walkway

Item		Unit (Quantity	Unit Cost*	Cost
Elevated Retractable Walkway		lf	1,200	\$12,375.00	\$ 14,850,000

Facility Option 1 - Renovate Existing Pier 2B Terminal for Two-Vessel Operations

Item		ι	Jnit (Quantity	Unit Cost*	Cost
Renovate Existings Termainal Bui	Iding for Two-Vessel Operat	ions	sf	200.000	\$200.00	\$40,000,000

Facility Option 2 - Temporary/Semi-Permanent Structure at Pier 2A

Item		Unit	Quantity	Unit Cost*	Cost
Temporary Sprung Structure		sf	50,000	\$250.00	\$12,500,000

Facility Option 3 - New Permanent Structure at Pier 2A

Item	Unit	Quantity	Unit Cost*	Cost
Construct New Cruise ship Terminal	sf	100,000	\$500.00	\$50,000,000

* Note: Operating Costs not CIP Cost. Price highly variable budgetary cost provided

Based on 15' wide 1,200' long retractable walkway

* Derived from Rider Levett Bucknall Cost Data.

* Note Operational Cost not CIP Cost. Based on Rider Levett Bucknall Cost Data.

* Based on Rider Levett Bucknall Cost Data.

PIER 2 CRUISE TERMINAL GENERAL IMPROVEMENTS

- 1 Provide shoreside sewer connection to allow cruise vessels to discharge to the municipal collection system.
- Improve shoreside water connection for cruise vessels to take on water (pressure and flow). Consider upsizing existing lines and providing pumps.
- 3 Provide shoreside power to reduce carbon emissions from idling vessels.
- 4 Modernize fendering, Replace bollards with 100-ton bollards.
- 5 At Pier 2 improve ground transportation circulation and staging and develop more parking to improve cruise terminal functionality and reduce impacts to FTZ operations and traffic flow on Ala Moana Blvd.
- 5a Modify fencing and pavement markings to create additional vehicle circulation, staging and parking area.
- 5b Utilize approximately 0.5 to 1 AC of land area from the Pier 2 yard to increase the staging area at the makai side of the existing cruise terminal building to expand and improve circulation for containers and service trucks that service cruise vessels berthed at the Pier 2 cruise terminal.
- 6 Develop pedestrian connectivity and improve pedestrian facilities around Pier 2.
- 6a Widen sidewalks along Channel Street to better accommodate cruise passengers with luggage walking to/from Ala Moana Blvd. Sidewalk Length = 685 lf
- 7 Renovate the Pier 2 Cruise Terminal building to improve capacity and passenger processing.
- 8 Piers 2A to 2C Raise 20-ft wide apron at edge of pier using sheet pile / bulkhead construction to form a sea wall at the pier face to adapt to projected 3.2 ft SLR and maintain minimum design freeboard of 5 feet for cruise ships.

Pier length 2A-2C = 1,850 lf

Pier length 2A-2C = 1,665 lf (after Pier 1A-B & 2A reconstruction)

Minimum design freeboard = 5 ft for cruise vessels and lay berth

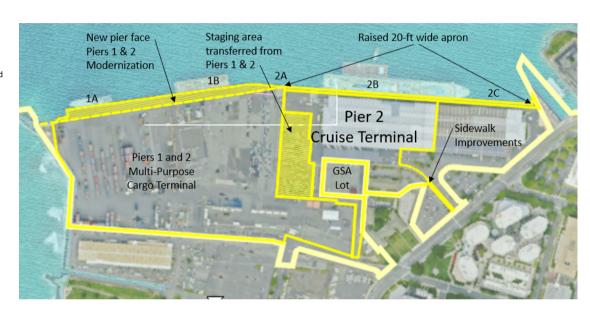
Pier Existing elevation above MLLW (2019) = 7.5 ft

Pier Proposed Elevation above MLLW (2019) = 10.10 ft

Pier Elevation Increase = 2.85 ft

Proposed Raised Apron Area = 34,310 sf / 0.79 ac

Proposed Fill Volume = 3,621 cy / 2.24 ac-ft



Acquisition - Do not include in ROM Costs

1. Expand harbor property by acquiring or gaining use of the General Services Agency (GSA) lot at Pier 2. DON'T INCLUDE IN ROM COSTS.

Item	Unit	Quantity	Unit Cost*	Cost
Sewer connection for cruise ships to city sewer system	ac	8.90	\$359,218	\$3,197,041
Water connection for cruise ships improvement	ac	8.90	\$167,871	\$1,494,055
Power connection for cruise ships	ac	8.90	\$381,247	\$3,393,096
Construct bulkhead pier, bollards (100-ton) and fenders	If	1,665	\$148,654	\$247,509,119
Additional Fill Material	ac-ft	2.24	\$252,141	\$564,797
Ground transportation improvements (modify fencing and pavement makings to create additional vehicle circulation, staging, and parking areas)	L.S.	L.S.	L.S.	\$100,000
Sidewalk widening on Channel Street	sf	5480	\$20	\$109,600
Pier 2 Cruise Terminal Renovation	sf	200,000	\$200	\$40,000,000
TOTAL				\$ 296,367,707

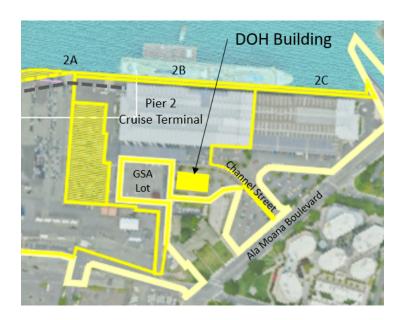
- * Based on KCT cost per acre sewer utilities
- * Based on KCT cost per acre water utilities
- * Based on KCT cost per acre power utilities
- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on KCT cost for fill
- * Minor cost for fence relocation and markings
- * Based on current cost for sidewalk construction
- * Based on Rider Levett Bucknall Cost Data.

PIER 2 GENERAL IMPROVEMENTS - RENOVATE HISTORIC DOH BUILDING FOR ADMINISTRATIVE USE

1 Renovate Historic DOH Building for Office Space Use Based on 2-story building, 12,500 sf per floor.

TOTAL	J1	23,000	у-100	\$10,000,000
Renovate Historic DOH Building for Office Space Use	cf	25.000	\$400	\$10,000,000
Item	Unit	Quantity	Unit Cost*	Cost

* Based on Rider Levett Bucknall Cost Data.



PIERS 5 AND 6 PIER AND BACKLAND REDEVELOPMENT

- Develop Piers 5 and 6 through a public-private-partnership with the State and a private developer: multi-level, mixed-use structure that could potentially contain offices for maritime operators and other businesses, hotel space, passenger orientation facilities, event space, a cultural and/or educational center, retail/commercial and parking.
- 1b Raise backland ground elevation to accommodate 3.2 ft SLR by 2060
 Existing Elevation = 7.5 ft, Proposed Elevation = 10.10 ft,
 Fill Height = 2.60 ft Area = Bldg. Area + 20-ft wide perim. = 178,545 sf
 Fill Volume = 17193 cy / 10.66 ac-ft
- Upgrade sewer, water, power/communication and drainage, assuming development of a 10-story structure with Building Area = 143,200 sf, Floor Area = 1,432,000 sf commercial/retail/office building footprint and containing 1,200 parking stalls.
- 2 Replace Pier 5 and 6 revetments and dolphins with continuous piers using sheetpile/bulkhead construction to improve berthing for day excursion vessels, ferry service and lay berth.
- 2a Keep makai edge of Piers 5 and 6 as natural shoreline with pedestrian access to serve as a public open space / point of interest. Construct 8'-wide by 500 If sidewalk to provide pedestrian access.



Item	Unit	Quantity	Unit Cost*	Cost
Develop multi-story building on Piers 5 and 6 backland area.	sf	892000	\$400	\$356,800,000
Develop parking structure integrated with new multi-story building.	sf	540000	\$210	\$113,400,000
Additional Fill Material	ac-ft	10.66	\$252,141	\$2,687,828
Utility Upgrades (sewer, water, power, drainage, communication)	ac	3.50	\$1,265,356	\$4,428,745
Replace Pier 5 and 6 revetments and dolphins with a continuous, bulkhead pier.	If	1,100.00	\$31,770	\$34,946,468
Pedestrian access to Pier 5 and 6	SF	4,000.00	\$20	\$80,000
TOTAL				\$512,343,042

- * Based on Rider Levett Bucknall Cost Data Office, Hotel, Retail/Comm.
- * Based on Rider Levett Bucknall Cost Data Parking Structure
- * Based on bid for KCT cost for fill
- * Based on KCT cost per acre for sewer, water, drainage and electrical.
- * Based on Pier 38 HC-1972 Bid (1998) with escalation to 1/1/2023
- * Based on current cost for sidewalk construction

Note: • The building floor area used for the rough order of magnitude cost estimate is based on a conceptual, 10-story mass building envelope and thus is expected to produce a conservative cost estimate. The actual building design will be determined by a private developer in coordination with the Aloha Tower Development Corporation and can be expected to have a different building height and incorporate building setbacks, such as a pedestal/tower building design, that would produce a different, and potentially reduced building floor area calculation.

PIERS 7 TO 11 - ALOHA TOWER AREA REDEVELOPMENT

- Develop street parking and pedestrian promenade improvements along Aloha Tower Drive based on the Aloha Tower Marketplace concept plans.
- 2 Piers 7 and 8 Construct shore-to-ship sewer connection using existing sewer collection system.
- 3 Pier 7 Raise existing pier to adapt to projected 3.2 feet SLR and maintain minimum design freeboard of 5 ft for day excursion vessels.

Pier 7 Length = 725 If

Minimum design freeboard = 5 ft for day excursion vessels and lay berth

Raised Pier Area = 37,026 sf / 0.85 ac

Pier Existing elevation above MLLW (2019) = 8.6 ft

Pier Proposed Elevation above MLLW (2019) = 10.10 ft

Pier Elevation Increase = 1.5 ft

Proposed Fill Volume = 2,057 cy / 1.28 ac-ft

4 Piers 8 to 11 - Raise 16-ft wide apron at edge of pier using sheet pile / bulkhead construction to form a sea wall at the pier face to adapt to projected 3.2 ft SLR and maintain minimum design freeboard of 5 feet for day excursion vessels and lay berth.

Piers 8 to 11 Length = 2,176 If

Minimum design freeboard = 5 ft for day excursion vessels and lay berth

Raised Apron Width = 16 lf, Raised Apron Area = 34,816 sf

Pier Existing elevation above MLLW (2019) = 7.0 ft

Pier Proposed Elevation above MLLW (2019) = 10.10 ft

Pier Elevation Increase = 3.10 ft

Proposed Raised Apron Area = 34,816 sf / 0.80 ac

Proposed Fill Volume = 3997 cy / 2.48 ac-ft

- 5a Renovate Piers 10 and 11 sheds to accommodate shared-use cruise, retail, commercial and office use. See next page for square footage breakdown of conceptual building program.
- 5b Upgrade utilities to support joint-use at Piers 10 and 11.



Item	Unit	Quantity	Unit Cost*	Cost
Develop street parking and pedestrian improvements (parking and promenade).	L.S.	L.S.	L.S.	\$1,000,000
Pier 7-8 Sewer upgrades to accommodate ships	L.S.	L.S.	L.S.	\$750,000
Additional fill material to raise Pier 7	ac-ft	1.28	\$252,141.49	\$322,741
Piers 8 to 11 reconstruction - bulkhead	If	2,176	\$31,769.52	\$69,130,468
Additional fill material to create raised apron Piers 8 to 11	ac-ft	2.48	\$252,141.49	\$625,311
Renovate Piers 10 and 11 sheds for cruise, retail and commercial use	sf	233,236	\$400.00	\$93,294,400
Upgrade utilities to support piers 10 and 11 renovation.	ac	4.70	\$1,265,355.85	\$5,947,172
TOTAL				\$171,070,092

- * Highly variable. Based on a conservative budgetary estimate.
- * Based on conservative estimate of in-place sewer line replacement
- * Based on bid for KCT cost for fill
- * Based on HC-1972 Pier 38 Pier Construction Costs (1998)
- * Based on bid for KCT cost for fill
- * Based on Rider Levett Bucknall Cost Data.
- * Based on KCT cost per acre for sewer, water, drainage and electrical.

PIERS 10 and 11 SHED SHARED-USE CRUISE, RETAIL/COMMERCIAL BUILDING PROGRAM (sf)

5a Renovate Piers 10 and 11 sheds to accommodate shared-use cruise, retail, commercial and office use.

Pier 10 - Ground Level = 46,700 sf

Renovate - Cruise Terminal Staging = 23,500 sf Renovate - Comm/Ret/Office = 23,200 sf

Pier 10 - Upper Level = 57,648 sf

New - Comm/Ret/Office = 48,600 sf

Renovate - Cruise Terminal Concourse = 5,920 sf

Renovate - Cruise Terminal Crossover = 3.128 sf

Pier 11 - Ground Level = 46,700 sf

Renovate - Cruise Screening Area = 17,500 sf

New - Cruise Baggage= 26,700 sf

Renovate - Cruise Crew Passageway = 2,500 sf

Pier 11 - Upper Level = 21,400 sf

New - Cruise Passenger Check-in = 21,400 sf

DOTH Building - Repurpose = 60,788 sf

Renovate/Repurpose - Comm/Ret = 15,588 sf

Renovate - Comm/Ret (3 floors) = 22,200

Renovate - Cruise Terminal Queueing = 23,000

Total Floor Area = 233,236

Total Cruise Terminal Area = 123,648

Total Commercial/Retail/Office Area = 109,588





PIERS 12 TO 15 IMPROVEMENTS FOR MARITIME SUPPORT SERVICES

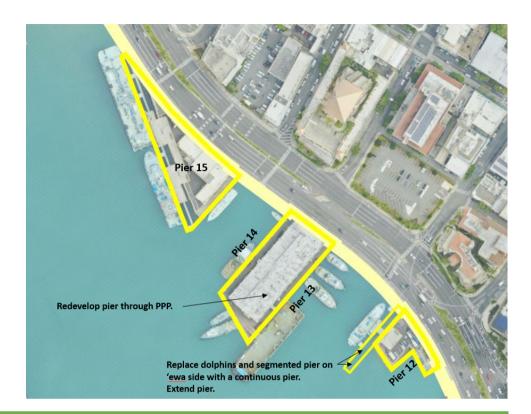
- 1 Pier 12 Reconstruct Pier 12 for a maritime operator. Replace dolphins and segmented pier on 'ewa' side of Pier 12 with a continuous pier.
- Piers 13 and 14 Redevelop the Piers 13 and 14 pier and building facilities through a public-private partnership with a maritime operator.
 - Given its historic status, the shed should be retained if feasible. However, if the
 needs of the harbor dictate and the opportunity arises, redevelopment of the pier
 and shed structure could be conducted by a private maritime operator under a longterm lease in order to enhance the function of the pier for the intended maritime
 support services use and to support overall harbor operations.
 - Piers 13 and 14 were constructed in 1930 and determined to have high preservation value. Endeavor to the preserve the historic attributes and character of the building when renovation or redevelopment work is undertaken.
- 3 Piers 13 and 14 Reconstruct pier using sheet pile / bulkhead construction. Include a 2-ft wide raised edge to form a barrier at the pier face to adapt to projected 3.2 ft SLR and maintain minimum design freeboard of 3 feet for work boats.

Piers 13 and 14 Length = 775 lf
Minimum design freeboard = 3 ft for work boats
Raised Edge Width = 2 ft, Raised Edge Area = 1,550 sf
Pier Existing elevation above MLLW (2019) = 7.0 ft
Pier Proposed Elevation above MLLW (2019) = 8.10 ft

Pier Elevation Increase = 1.10 ft

Proposed Fill Volume = 63.15 cy / 0.04 ac-ft

4 Use long-term leases and public private partnership agreements to incentivize investment in maritime facilities, including pier reconstruction and development of support buildings.



Item	Unit	Quantity	Unit Cost*	Cost
Reconstruct Pier 12 and replace dolphins and segmented pier on 'ewa side with	ac	0.28	\$18,249,364	\$5,109,822
continuous pier.				
Piers 13 and 14 reconstruction - bulkhead	If	775	\$31,770	\$24,621,375
Additional fill material to create raised edge Piers 13 and 14	ac-ft	0.04	\$252,141	\$10,086
TOTAL				\$29,741,283

^{*} Based on KCT pier/yard cost per acre x 5 for economies of scale

^{*} Based on HC-1972 Pier 38 - Pier Construction Costs (1998)

^{*} Based on bid for KCT cost for fill

PIERS 16 TO 18 COMMERCIAL FISHING FLEET PIER IMPROVEMENTS

Widen Pier 16 from 20 ft to 35 ft to accommodate motor vehicles to facilitate ship provisioning, fueling and repair.

Assumptions: Two rows of piles. Widen 520 lf (one side) by 15 feet = 7,800 sf

Raise Piers 16 and 17 deck height for 3.2' SLR by 2060. Raise pier deck to minimum design freeboard of 3 ft for fishing vessel operations. Assume substructure / piles are in suitable condition for reuse.

Pier 16

Pier Length = 930 If

Pier existing elevation above MLLW (2019) = 7.00 ft

Pier proposed elevation above MLLW (2019) = 8.10 ft

Pier = elevation increase = 1.10 ft

Pier Area = 930 If x 35 ft = 32,550 sf

Pier 17

Pier Length = 965 If

Pier existing elevation above MLLW (2019) = 5.00 ft

Pier proposed elevation above MLLW (2019) = 8.10 ft

Pier = elevation increase = 3.10 ft

Pier Area = 965 If x 35 ft = 33,775 sf

3 Maintain existing driveway access to Piers 16 to 18 Fishing Fleet.

4 Reconstruct and elevate Pier 18 pier deck height as necessary to account for SLR of 3.2 feet while maintaining a minimum operational freeboard of 3 feet for fishing vessel operations and lay berth.

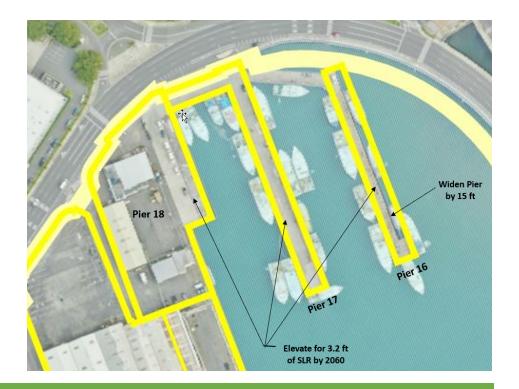
Pier Length = 210 lf, Yard Area = 59,031 sf / 1.36 ac

Yard/Pier existing elevation above MLLW (2019) = 6.00 ft

Yard/Pier proposed elevation above MLLW (2019) = 8.10 ft

Yard/Pier = elevation increase = 2.10 ft

Yard Fill = 4,591 cy / 2.85 ac-ft



TOTAL				\$75,652,702
Pier 18 - additional fill material	ac-ft	2.85	\$252,141.49	\$718,603
Pier 18 - bulkhead reconstruction	If	210.00	\$31,769.52	\$6,671,598
Raise Piers 16 and 17 using existing piles with spacers.	sf	66,325	\$500.00	\$33,162,500
Widen Pier 16	sf	7,800	\$4,500.00	\$35,100,000
Item	Unit	Quantity	Unit Cost*	Cost

- * Based on consultation with Contractors and KAI Hawai'i.
- * Derived from Contractors and KAI Hawai'l estimate.
- * Based on HC-1972 Pier 38 Pier Construction Costs (1998)
- * Based on bid for KCT cost for fill

PIERS 19 AND 20 MULTI-PURPOSE CARGO TERMINAL MODERNIZATION

- Demolish the existing Pier 19 warehouse and Super Ferry building to create open yard. Phase demolition as existing buildings lose their ability to support maritime needs.
 - Based on 21,201 sf (Ferry Bldg) 69,077 sf (Warehouse) = 2.07 ac
- 2 Reconstruct Piers 19 and 20, apron and yard.
- 2a Raise pier and yard for 3.2' SLR by 2060. Raise pier deck and yard to minimum design freeboard of 6 ft for barge, cargo and RO-RO vessel operations. (Note: Recommend raising the entire yard area rather than constructing a raised apron due to the relatively small size and lack of yard depth at this terminal.)

Pier Length = 980 If

Yard Area = 365,996 sf / 8.40 ac2

Yard/Pier existing elevation above MLLW (2019) = 6.35 ft

Yard/Pier proposed elevation above MLLW (2019) = 11.10 ft

Yard/Pier = elevation increase = 4.75 ft

Yard Fill = 64,388 cy / 39.91 ac-ft

- 2b Strengthen yard and entire apron for heavy-lift, mobile crane operations. Replace asphalt pavement with concrete.
- 2c Improve fendering and bollards.



Item	Unit	Quantity	Unit Cost*	Cost
Demolish existing Pier 19 warehouse and super ferry building	ac	2.07	\$861,278	\$1,782,844
Reconstruct Piers 19 and 20 - yard	ac	8.40	\$3,649,873	\$30,658,932
Reconstruct Piers 19 and 20 - bulkhead piers	If	980.00	\$148,654	\$145,681,043
Additional Fill	ac-ft	39.90	\$252,141	\$10,060,446

TOTAL \$188,183,265

- * Based on KCT cost per acre demolition
- * Based on KCT cost per acre
- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on bid for kapalama container yard cost for fill

PIERS 21 AND 22 "TUG ROW" MODERNIZATION

- 1 Demolish existing buildings = 18,829 sf / 0.46 ac existing building area
- 2 Reconstruct pier, apron and yard:
- 2a Reconstruct pier, apron and yard using sheet pile / bulkhead construction.
 Strengthen pier and apron to accommodate heavy equipment (spool trucks, cranes on trucks). Replace asphalt pavement with concrete.
- 2b Raise "tug row" pier and yard for 3.2' SLR by 2060. Raise pier deck and yard to minimum design freeboard of 3 ft for tug boat operations.

Pier Length = 665 If

Minimum design freeboard = 3 ft for tugs

Yard Area = 43533 sf / 1.0 ac

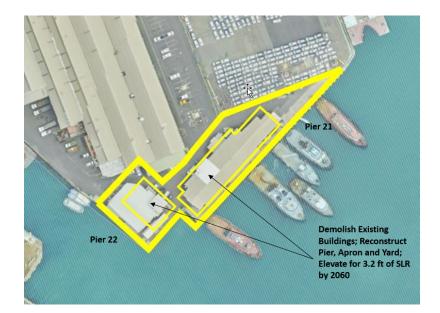
Yard/Pier existing elevation above MLLW (2019) = 6.00 ft

Yard/Pier proposed elevation above MLLW (2019) = 8.10 ft

Yard/Pier = elevation increase = 2.10 ft

Yard Fill = 3,386 cy / 2.10 ac-ft

- 2c Improve fendering and bollards.
- 3 Provide shoreside power.
- Develop new shared-use facilities and consolidate tug operators. Facilities will include new office, warehouse and maintenance building(s), and parking.



Item	Unit	Quantity	Unit Cost*	Cost
Demolish Existing Buildings	ac	0.46	\$861,277.50	\$396,188
Reconstruct Piers 21 and 22 - yard	ac	1.00	\$3,649,872.84	\$3,649,873
Reconstruct Piers 21 and 22 - bulkhead piers, bollards and fenders	If	665.00	\$148,654.13	\$98,854,993
Additional Fill	ac-ft	2.1	\$252,141.49	\$529,497
Provide shoreside power	ac	1.00	\$381,246.76	\$381,247
Develop new shared use facility (office, warehouse, maint. Bldg, and parking)	sf	23,522.40	\$450.00	\$10,585,080
				4

TOTAL \$114,396,878

- * Based on KCT cost per acre demolition
- * Based on KCT cost per acre pier and yard construction
- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on KCT cost for fill
- * Based on KCT cost per acre electrical power
- * Based on Rider Levett Bucknall Cost Data.

PIERS 22 AND 23 MODERNIZATION FOR MARITIME USERS

1 Demolish grain silos, warehouses and miscellaneous buildings to accommodate driveway access, and efficient layout of yard area for maritime uses.

Warehouse 6 = 105,418 sf, Warehouse 8 = 19,942 sf Total warehouse demolition = 125,360 sf / 2.88 ac Silo height = 140 ft Silos = 13,397 sf + 5,829 sf + 2,976 sf = 22,202 sf / 0.52 ac Total Building Demolition Area = 237,840 sf

- 1a Remediate contaminated soil, groundwater, lead and asbestos.
- 2 Cut back pier face by 20 to 40 feet to widen slipway. Clear out subsurface coral and rocks.
- 3 Reconstruct pier, apron and yard. Reconstruct pier using sheet pile / bulkhead construction. Strengthen pier foundation to support construction of the proposed maritime center at Piers 19 to 23.
- 4 Raise the pier deck height as necessary to account for SLR of 3.2 feet while maintaining a minimum operational freeboard of 3 feet for work boat and tug operations.

Piers 22 and 23 Length = 930 If

Piers 22 to 25 Length = 2,100 lf (for slipway)

Minimum design freeboard = 3 ft for work boats and tugs

Demo 20-ft wide section of pier = 930 lf x 20 = 18,600 sf

Yard Area = 108.760 sf / 2.50 ac

Yard/Pier existing elevation above MLLW (2019) = 6 ft

Yard/Pier proposed elevation above MLLW (2019) = 8.10 ft

Yard/Pier = elevation increase = 2.10 ft

Yard Fill = 8,459 cy / 5.24 ac-ft

- 5 Replace asphalt paving with concrete and strengthen yard to support heavy equipment.
- 6 Dredge full extents of slipway to 35-foot depth.



Item	Unit	Quantity	Unit Cost*	Cost
Demolish silos (concrete structures)	ac	0.51	\$12,057,885.02	\$6,149,521
Demolish warehouse buildings	ac	2.88	\$861,277.50	\$2,480,479
Remediation of contaminated material	ac	0.51	\$272,289.54	\$138,868
Cut back and demolish pier face and apron.	If	930	\$10,611.92	\$9,869,083
Reconstruct Piers 22 and 23 - yard	ac	3.7	\$3,649,872.84	\$13,504,530
Reconstruct Piers 22 and 23 - bulkhead piers	If	930.00	\$148,654.13	\$138,248,336
Additional Fill	ac-ft	5.24	\$252,141.49	\$1,321,221
Dredge slipway to 35 feet deep	If	2100	\$839.00	\$1,761,900
TOTAL				\$173,473,938

- * Based on KCT cost per acre demolition x 14 stories
- * Based on KCT cost per acre
- * Based on KCT cost per acre remediation x 3
- * Based on KCT Wharf and Dredging cost per If for demolition.
- * Based on KCT cost per acre
- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on bid for KCT cost for fill
- * Based on 2019 Pier 20 dredging cost per If

PIERS 19 TO 23 MARITIME CENTER

Develop multi-level, mixed-use structure to accommodate office space, employee parking, auto storage, high-cube ground level integrated with Piers 19 and 20 cargo operations, and retail/commercial on Nimitz Highway frontage. Include storage area for large/heavy maritime cargo handling and servicing equipment. Consider incorporating the existing McCabe building. Examples of the type of structure being contemplated for the Maritime Center include Walmart on Ke'eaumoku St. and the Airport industrial Center.

Assume:

Building Area = 268,700 sf

Floor Area = 1,343,605 (5 stories)

5-Story Parking Structure Area = 134,350 sf x 5 = Floor Area = 671,750 sf

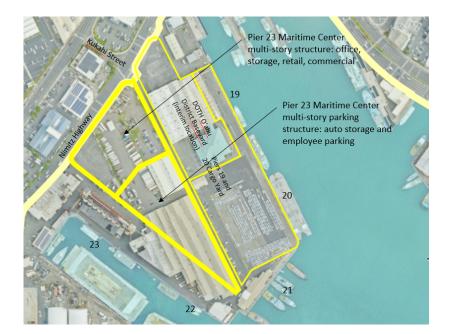
 $Comm/Ret/Office/Storage\ Area=134,350\ sf,\ Floor\ Area=671,750\ sf$

Com/Ret Floor Area = 134,350 sf

Office Floor Area = 268,700 sf

Storage Floor Area = 268,700 sf

- 2 Access Improvements:
 - Develop the Kukahi Street intersection on Nimitz Highway as a primary access to the new Piers 19 to 23 Maritime Center and Piers 19 and 20 cargo terminal.
 Signalize the intersection. Coordinate with DOTHWY for a signalization warrant study.
 - Reauthorize the driveway entrance at Pier 23 to provide right-turn-in only access to Piers 21 and 22, "Tug Row," and to maritime uses and the proposed Maritime Center at Piers 22 to 23.
 - Designate the new Pier 23 driveway access as secured access to Tug Row and the Piers 19-20 cargo terminal and proposed Maritime Center.



Item	Unit	Quantity	Unit Cost*	Cost
Develop multi-level, mixed-use structure	sf	671,750.00	\$400.00	\$268,700,000
Develop multi-story parking structure	sf	671,750.00	\$210.00	\$141,067,500
Reauthorize driveway entrance at Pier 23	L.S.	L.S.	L.S.	\$10,000
Designate primary access to Maritime Center at the Kukahi Street intersection	L.S.	L.S.	L.S.	\$10,000
Develop the existing pier driveway entrance as a primary access to the new	L.S.	L.S.	L.S.	
Maritime Center and Piers 19 and 20 cargo terminal.				\$250,000
Signalize Kukahi Street intersection if warranted by study	L.S.	L.S.	L.S.	\$250,000

TOTAL \$409,787,500

- * Based on Rider Levett Bucknall Cost Data Office, Hotel, Retail/Comm.
- * Based on Rider Levett Bucknall Cost Data Parking Structure
- * Assumed permitting cost
- * Assumed permitting cost
- * Budgetary, pavement improvements.
- * Budgetary cost for signalization.

PIERS 24 TO 29A IMPROVEMENTS FOR CONSOLIDATED MARITIME SUPPORT SERVICES

- 1 Raise 20-ft wide apron at pier edge to accommodate 3.2 ft SLR by 2060.
 - Maintain minimum design freeboard of 3 feet for work boats, tugs, dry docks and lay berth.
 - Improve fendering and bollards.
- 1a Pier 24-25

Length = 945 If, Apron Area = 18,800 sf / 0.43 ac Existing Ht = 6.00 ft, Proposed Ht = 8.10 ft, Ht above existing = 2.10 ft Fill volume = 1,470 cy / 0.91 ac-ft

1h Pier 2

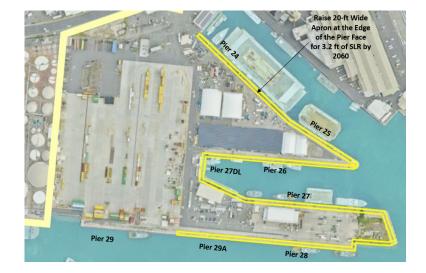
Total Length = 685 If, Apron Area = 13,700 sf / 0.31 ac Existing Ht = 6.00 ft, Proposed Ht = 8.10 ft, Ht above existing = 2.10 ft Fill Volume = 1,066 cy / 0.66 ac-ft

1c Piers 27-29A

 $\label{eq:Length} \begin{tabular}{ll} Length = 1,800 \ lf, \ Apron \ Area = 34,400 \ sf \ / \ 0.79 \ ac \\ Existing \ Ht = 7.00 \ ft, \ Proposed \ Ht = 8.10 \ ft, \ Ht \ above \ existing = 1.10 \ ft \\ Fill \ volume = 1,401 \ cy \ / \ 0.87 \ ac-ft \end{tabular}$

Use long-term leases and public private partnership agreements to incentivize

 investment in maritime facilities, including pier reconstruction and development of support buildings.



Item	Unit	Quantity	Unit Cost*	Cos	st
Piers 24-25 - Reconstruct pier with raised apron, bollards and fenders.	lf	945	\$148,654.13	3 \$	140,478,148
Piers 24-25 - additional fill	ac-ft	0.91	\$252,141.49	\$ \$	229,449
Piers 26 - Reconstruct pier with raised apron, bollards and fenders.	If	685	\$148,654.13	3 \$	101,828,076
Piers 26 - additional fill	ac-ft	0.66	\$252,141.49	\$ \$	166,413
Piers 27-29A - Reconstruct pier with raised apron, bollards and fenders.	If	1,800	\$148,654.13	3 \$	267,577,425
Piers 27-29A - additional fill	ac-ft	0.87	\$252,141.49	€ (219,363
TOTAL					\$510 498 875

\$510,498,875

- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on KCT cost for fill
- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on KCT cost for fill
- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on KCT cost for fill

PIER 29 MULTI-PURPOSE CARGO TERMINAL MODERNIZATION

1 Reconstruct and strengthen pier face and apron using bulkhead / sheet pile construction to approximately 50-feet from pier face (up to recently reconstructed yard).

Pier Length = 600 If (with notch)

- Fill notch in apron as part of pier reconstruction.
- Construct apron to accommodate heavy lift equipment.
- 2 Construct 100-ft wide raised apron to accommodate 3.2 ft SLR by 2060 while maintaining 6 ft minimum freeboard for cargo and RO/RO vessels. (Note: Assume access ramps will be built into the raised apron footprint.)

Yard Area = 515,233 sf / 11.83 ac

Apron only area = 60,000 sf / 1.38 ac (600 lf x 100 ft)

Minimum design freeboard = 6 ft for cargo, RO-RO vessels

Pier existing elevation above MLLW (2019) = 7.0 ft

Pier proposed elevation above MLLW (2019) = 11.10 ft

Pier = elevation increase = 4.10 ft

Apron Fill (100-ft wide) = 9,111 cy / 5.66 ac-ft

Re-authorize and reconstruct the east-bound highway exit lane with connection to the Pacific St. intersection and access to Piers 27 to 29. At the Pacific St. exit, container trucks leaving Pier 29 are permitted right-out only to avoid blocking the Pacific St. intersection. Note: This project is currently in progress.



Item	Unit	Quantity	Unit Cost*	Cost
Reconstruct and strengthen pier face and apron	If	600.00	\$148,654.13	\$89,192,475
Install Heavy Lift Pads	ea	1.00	\$780,000.00	\$780,000
Additional fill for 100-ft wide raised apron	ac-ft	5.66	\$252,141.49	\$1,427,121
Reconstruct east-bound hwy exist lane to Pacific St and access to Piers 27 to 29	1	Is		N/A
TOTAL				\$91,399,596

* Based on KCT Wharf and Dredging - bulkhead pier construction

* Heavy Lift Pad - 150'x100'x2' or 1,111 cy at \$700/cy

* Based on KCT cost for fill

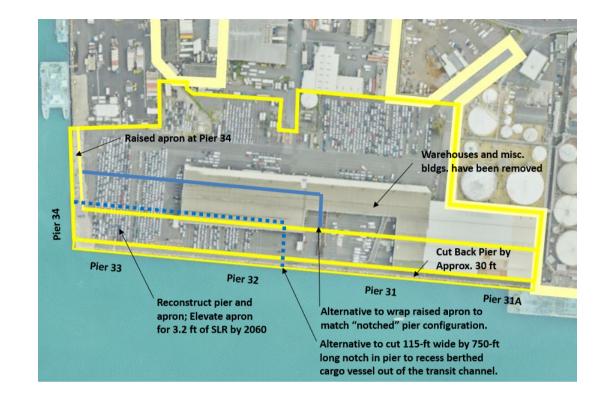
* Project is currently in construction

PIERS 31 TO 34 MULTI-PURPOSE CARGO TERMINAL MODERNIZATION

- 1 Reconstruct pier and apron:
 - Cut back pier face to remove pile-supported deck construction and replace with bulkhead/sheet pile with fill construction. Cut back at a minimum to existing fast land (approximately 30 feet) to create a notch for vessel berthing to reduce intrusion into the Kapalama Transit Channel as an aid to navigation.
 - Demo Area = 61,350 sf / 1.40 ac (30-ft cut back on channel edge)
 - · Improve fendering and bollards.
- 2 Construct 100-ft raised wide apron at edge of Plers 31 to 33 and a 20-ft wide raised apron at the edge of Pier 34 using sheet pile / bulkhead construction to form a sea wall at the pier face to adapt to projected 3.2 ft SLR and maintain minimum design freeboard of 6 feet for cargo and RO-RO vessels and lay berth. (Note: Assume access ramps will be built into the raised apron footprint.) Keep the landside areas at their current height behind the sea wall. Install motor vehicle access ramps onto the raised apron.

Pier Length = (31-33): 2,045 lf, (34): 210 lf, (Total): 2,255 Apron Area = (31-33): 204,500 sf / 4.69 ac, (34): 4,200 sf / 0.10 ac Apron existing elevation above MLLW (2019) = 7.0 ft Apron proposed elevation above MLLW (2019) = 11.10 ft Apron = elevation increase = 4.10 ft Apron Fill = (31-33): 31,053 cy / 19.25 ac-ft, (34): 638 cy / 0.40 ac-ft Total Apron Fill = 31,691 cy / 19.65 ac-ft

- 3 Strengthen pier and yard surfaces to accommodate heavy lift equipment.
- 4 Create a new internal access driveway to serve Piers 31 to 34 with connection to the signalized intersection at Alakawa St. and Nimitz Hwy. This will allow for full, signalized turning movements onto Nimitz Highway. Note: This alternative requires acquisition of the Honolulu Freight Services parcel by the DOTH. DOTH is currently in the process of acquiring the property from DOT-A.



Item	Unit	Quantity	Unit Cost*	Cost
Cut back and demolish pier face (30-ft cut back on channel edge)	If	2,045	\$10,611.92	\$21,701,370
Reconstruct pier - bulkhead, bollards and fenders	If	2,255	\$148,654.13	\$335,215,052
Additional fill for raised apron	ac-ft	19.65	\$252,141.49	\$4,954,580
Install Heavy Lift Pads	ea	2	\$780,000.00	\$1,560,000
Create new internal access driveway	If	930	\$320.00	\$297,600
TOTAL				\$363,728,603

- * Based on KCT Wharf and Dredging cost per If for demolition.
- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on KCT cost for fill
- * Heavy Lift Pad 150'x100'x2' or 1,111 cy at \$700/cy
- * Assuming 930' long driveway, 40' wide, 4" AC pavement, 12-inch Aggregate Base

PIER 35 UH RESEARCH PIER

1 Construct 20-ft raised wide apron at edge of pier using sheet pile / bulkhead construction to form a sea wall at the pier face to adapt to projected 3.2 ft SLR and maintain minimum design freeboard of 5 feet for research vessels, workboats and lay berth. (Note: Assume access ramps will be built into the raised apron footprint.) Keep the landside areas at their current height behind the sea wall. Install motor vehicle access ramps onto the raised apron.

Pier Length = 910 If (incl. portion of Pier 34)
Apron Area = 18,200 sf / 0.42 ac
Apron existing elevation above MLLW (2019) = 7.0 ft
Apron proposed elevation above MLLW (2019) = 10.10 ft
Apron = elevation increase = 3.10 ft
Apron Fill = 2,089 cy / 1.30 ac-ft

Item	Unit	Quantity	Unit Cost*	Cost
Reconstruct pier - bulkhead, bollards and fenders	If	910	\$148,654.13	\$135,275,254
Additional fill for 20-ft wide raised apron	ac-ft	1.3	\$252,141.49	\$327,784

 $\ensuremath{^{*}}$ Based on KCT Wharf and Dredging - bulkhead pier construction

* Based on KCT cost for fill

TOTAL \$135,603,038

Pier 35
Raise 20-ft Wide
Apron at the Edge
of the Pier Face
for 3.2 ft of SLR by
2060
Pier 36
Pier 34

PIER 36 COMMERCIAL FISHING PIER IMPROVEMENTS

- Extend Pier 36 by approximately 160 LF to the federal project limit to provide additional berthing for fishing vessels.
 - Pier width = 62 ft x Additional Pier Length = 160 lf, New Pier Area = 9,920 sf
- Reconstruct and elevate Pier 36 pier deck height as necessary to account for SLR of 3.2 feet by 2060 while maintaining a minimum operational freeboard of 3 feet for fishing vessel operations. Alternatives depend on the structural condition at the time of reconstruction and may include:
 - Reconstruct the entire pile and deck pier structure.
 - Raise the pier deck using the existing piles with the addition of structural spacers.

Pier Length = DH 546 lf + Ewa 430 lf = 976 lf Minimum design freeboard = 3 feet for fishing vessels Pier existing elevation above MLLW (2019) = 7.0 ft Pier proposed elevation above MLLW (2019) = 8.10 ft Pier = elevation increase = 1.10 ft Pier area = 976 ft x 62 ft = 60,512 sf



Extend pier 36	sf	9,920	\$4,500.00	\$44,640,000
Raise Pier 36 using existing piles with spacers.	sf	60,512	\$500.00	\$30,256,000
TOTAL				\$74.896.000

^{*} Based on consultation with Contractors and KAI Hawai

^{*} Derived from Contractors and KAI Hawai'l estimate.

PIER 38 FISHING VILLAGE MARITIME IMPROVEMENTS

1

Pier 37 Replacement - Replace existing pier when it reaches the end of its designed life. Consider using a floating dock design to accommodate 3.2 ft SLR by 2060.

Pier Length = 408 If

Minimum design freeboard = 3 feet for fishing vessels Pier existing elevation above MLLW (2019) = 7.0 ft

Pier proposed elevation above MLLW (2019) = 8.10 ft

Pier = elevation increase = 1.10 ft

Pier Deck Area = 7,405 sf / 0.17 ac

Pier 38 Extension - Replace existing revetment and extend Pier 38 bulkhead pier improvements by approximately 645 LF for shore side vessel services, provisioning off-loading fish for the auction, and for lay berth use.

Use floating dock design for fishing vessels and work boat piers along new pier construction.

Raise 16-ft wide apron at edge of pier to form a sea wall at the pier face around Pier 38 to adapt to projected 3.2 ft SLR by 2060 and maintain minimum design freeboard of 3 feet for fishing vessels and lay berth. Keep the landside areas at their current height behind the sea wall to minimize the costs of redevelopment filling and raising the yards. Install motor vehicle access ramps onto the raised apron.

Apron length = 1,140 lf, Apron width = 16 ft

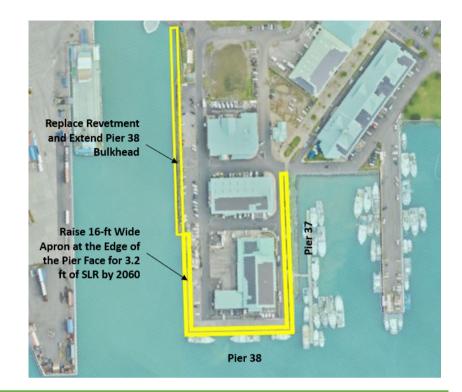
Apron Area = 18,240 sf

Apron existing elevation = 5 ft

Apron proposed elevation = 8.10 ft

Apron elevation increase = 3.10 ft

Apron Fill = 2,094 cy / 1.30 ac-ft



Item	Unit	Quantity	Unit Cost* Co	st
Replace Pier 37 with a floating dock.	sf	7,405	\$1,000	\$7,405,000
Extend Pier 38 improvements (bulkhead) to fuel barge pier	lf	645.00	\$31,770	\$20,491,338
Pier 38 - Install floating dock for fishing and work boats (645 lf x 10 ft)	sf	6,450	\$1,000	\$6,450,000
Reconstruct Pier 38 - bulkhead, bollards and fenders - to support raised apron.	If	1,140	\$31,770	\$36,217,249
Additional fill for raised apron	ac-ft	1.30	\$252,141	\$327,784
TOTAL				\$70 891 371

* Based on Pier 38 HC-1972 project cost escalated 5% annualy to 2023.

* Based on prior project experience * Based on prior project experience

* Based on Pier 38 HC-1972 project cost escalated 5% annualy to 2023.

* Based on KCT cost for fill

PIER 38 MARITIME SUPPORT AREA IMPROVEMENTS

- Develop approximately 330 LF of new pier adjacent to maritime support area for work boats and layberth.
- 1a Raise 16-ft wide apron at edge of pier to form a sea wall at the pier face to adapt to projected 3.2 ft SLR by 2060 and maintain minimum design freeboard of 3 feet for work boats and lay berth.

Apron length = 330 lf, Apron width = 16 ft

Apron Area = 5,280 sf

Assumed ground elevation = 5 ft

Apron proposed elevation = 8.10 ft

Apron elevation increase = 3.10 ft

Apron Fill = 606 cy / 0.38 ac-ft

- 1b Use floating dock design for fishing vessels and work boat piers adjacent to the Maritime Support Area.
- 1c Reconstruct existing fuel barge pier.
- Clear and pave the 1.39-acre lot adjacent to the Kapalama Canal outlet for Maritime Support uses and possible future facility development through a public/private partnership.



Item	Unit	Quantity	Unit Cost*	Cost
Extend Pier 38 bulkhead improvements along Pier 38 maritime support area.	lf	330	\$31,769.52	\$10,483,940
Additional fill for raised apron.	ac-ft	0.38	\$252,141.49	\$95,814
Reconstruct fuel barge pier (60 lf)	lf	60	\$31,769.52	\$1,906,171
Install floating pier for workboats (330 lf x 10f)	sf	3,300	\$1,000.00	\$3,300,000
Clear lot adjacent to Kapalama Canal outlet	ac	1.39	\$440,306.49	\$612,026
Pave lot adjacent to Kapalama Canal outlet	ac	1.39	\$765,139.93	\$1,063,545
TOTAL				\$17.461.496

- * Based on Pier 38 HC-1972 project cost escalated 5% annualy to 2023.
- * Based on KCT cost for fill
- * Based on Pier 38 HC-1972 project cost escalated 5% annualy to 2023.
- * Based on prior project experience
- * Based on KCT cost per acre mobilization and excavation
- * Based on KCT cost per acre pavement

PIERS 39 TO 41 INTERISLAND TERMINAL MODERNIZATION

- 1 Pier Improvements
- 1a Reconstruct and strengthen Piers 39 to 41 with sheet-pile/bulkhead construction to accommodate modern barge operations to the full extent of the pier.
- 1b Replace pier deck and yard area adjacent to pavement with concrete to accommodate heavy-lift operations.
- 1c Improve fendering and bollards.
- 2 Raise the height of the piers and portion of the yard as necessary to account for SLR of 3.2 feet by 2060 while maintaining a minimum operational freeboard of 6 feet for tug and barge operations. Raise the portion of the yard adjacent to the piers to match the pier height and leave the mauka areas of the terminal at existing grade.

Pier Length = 5,151 lf

Minimum design freeboard = 6 feet for tug & barge operations

Yard Area - piers and adjacent areas = 1,100,800 sf / 25.3 ac

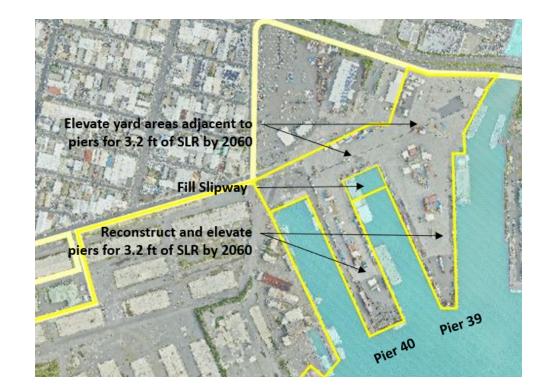
Yard/Pier existing elevation above MLLW (2019) = 8 ft

Yard/Pier proposed elevation above MLLW (2019) = 11.10 ft

Yard/Pier = elevation increase = 3.10 ft

Yard Fill - piers and adjacent yard areas = 126,388 cy = 78.3 ac-ft

- Fill in approximately 0.85-acres of the Piers 39 and 40 slipway to expand the yard area. Retain sufficient berthing within the slipway to accommodate two barges on each side.
 - Slipway Fill = 37,000 sf x 30-ft depth = 1,110,000 cf = 41,111 cy=25.5 ac-ft
- 4 Reconstruct, raise and strengthen the revetment at the Kapalama Canal outlet near Pier 39-1A for SLR, resiliency and terminal function.
- 5 New Libby Street Driveway create new driveway entrance on Libby Street to nonsecure areas of the terminal for staff and customer traffic.



Item	Unit	Quantity	Unit Cost*	Cost
Reconstruct Piers 39 to 41 - bulkhead	lf	5,151	\$148,654.13	\$765,717,399
Reconstruct Piers 39 to 41 - yard areas adjacent to piers	ac	25.30	\$3,649,872.84	\$92,341,783
Additional Fill for SLR - piers and yard areas adjacent to piers	ac-ft	78.30	\$252,141.49	\$19,742,679
Additional Fill for piers 39 to 40 slipway	ac-ft	25.5	\$252,141.49	\$6,429,608
Construct pier over filled area	ac	0.85	\$3,649,872.84	\$3,102,392
Reconstruct, raise and strengthen the revetment at Kapalama Canal	lf	550	\$20,000.00	\$11,000,000
Design and Construct new driveway on Libby Street	L.S.	L.S.	L.S.	\$50,000

TOTAL \$898,383,861

- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on KCT cost per acre
- * Based on bid for kapalama container yard cost for fill
- * Based on bid for kapalama container yard cost for fill
- * Based on KCT cost per acre
- * Based on previous project experience
- * Budgetary for new driveway construction based on project experience

PIERS 51 TO 53 SAND ISLAND CONTAINER TERMINAL MODERNIZATION

- 1 Reconstruct Piers 51-53 pier and yard using sheet-pile/bulkhead construction. Use concrete in all areas to be used for container storage and heavy lift (top pick) operations.
- 1a Raise the height of the pier, apron and 120-ft wide gantry track corridor as necessary to account for SLR of 3.2 feet by 2060 while maintaining a minimum operational freeboard of 6 feet for cargo vessel operations. Construct access ramps between the raised apron and yard.

Piers 51A-C Length=2,035 lf, Piers 52A to 53 Length=2,050 lf, Total=4,085 lf Minimum design freeboard = 6 feet for cargo vessel operations

120-ft Wide Apron/Gantry Corridor=244,200 sf/5.6 ac + 246,000 sf/5.7 ac = 490,200 sf/11.3 ac

Pier existing elevation above MLLW (2019) = 51A-C = 8 ft, 52A-53 = 8.2 ft

Pier proposed elevation above MLLW (2019) = 11.10 ft

Pier = elevation increase = 51A-C = 3.10 ft, 52A-53 = 2.90 ft

Apron/Gantry Fill 51A-C = 28,037 cy = 17.4 ac-ft

Apron/Gantry Fill 52A-53 = 26,422 cy = 16.4 ac-ft, Total = 54,459 cy = 33.8

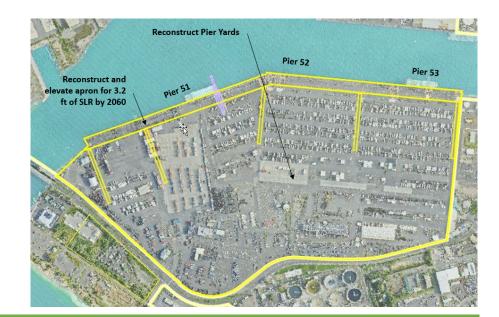
Ramp Fill Volume = 30'x600'x3' (0.5% slope) = 1000 cy each x 5 = 5,000 cy

Total Fill Volume 51A-C = 30,037 cy = 18.6 ac-ft

Total Fill Volume 52A-53 = 29,442 cy = 18.3 ac-ft

Total Fill Volume = 59,479 cy = 39.9 ac-ft

Install hydro-dynamic separators as necessary. Possibly need 3 HDS units at Sand Island.



Item	Unit	Quantity	Unit Cost*	Cost
Reconstruct Piers 51A through 53B - yard	ac	138.20	\$3,649,872.84	\$504,412,427
Reconstruct Piers 51A through 53B - bulkhead pier	If	4,085.00	\$148,654.13	\$607,252,102
Additional Fill - 120-ft apron and ramps	ac-ft	39.90	\$252,141.49	\$10,060,446
Install hydrodynamic separators	ea	3	\$850,000.00	\$2,550,000
TOTAL				\$1,124,274,974

- * Based on KCT cost per acre
- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on bid for kapalama container yard cost for fill
- * Based on KCT cost

PIER 60 AGGREGATE PIER MODERNIZATION

- 1 Reconstruct Pier 60 yard into a heavy-duty pier for barge (Ro/Ro) operations:
- 1b Reconstruct Pier 60 yard (HC&D lease areas), including pavement, water, sewer, drainage and electricity. Pave with concrete for pier strength and to make it easier to store aggregate.
- 2 Raise the height of the pier, apron and yard in the HC&D lease area as necessary to account for SLR of 3.2 feet while maintaining a minimum operational freeboard of 6 feet for tug and barge operations.

Pier Length = 452 If

Minimum design freeboard = 6 feet for tug & barge operations

Total Pier 60 Yard Area (lease area and backland) = 897,973 sf / 20.6 ac

Yard/Pier existing elevation above MLLW (2019) = 7 ft

Yard/Pier proposed elevation above MLLW (2019) = 11.10 ft

Yard/Pier = elevation increase = 4.10 ft

Total Yard Fill = 136,360 cy = 84.5 ac-ft

HC&D Lease Area = 344,292 sf / 7.9 ac = 32.4 ac-ft

Backland Area = 553,681 sf / 12.7 ac = 52.1 ac-ft

- B Develop backland areas with paved surface for auto or container/chassis storage or other maritime uses.
- 4 Raise backland areas to account for SLR consistent with Pier 60 lease areas.
- 5 Develop existing mauka perimeter driveway into a new industrial street to create new business frontage on Pier 60 backlands, with street connection to Pahounui Street.
- 5a Acquire right-of-way to improve street layout and circulation.

Item	Unit	Quantity	Unit Cost*	Cost
Reconstruct Pier 60 - bulkhead pier	If	452.00	\$148,654.13	\$67,191,665
Reconstruct HC&D lease area yard	ac	7.9	\$3,649,872.84	\$28,833,995
Additional Fill - HC&D lease area	ac-ft	32.40	\$252,141.49	\$8,169,384
Pave backland areas	ac	12.70	\$765,139.93	\$9,717,277
Additional Fill - backland area	ac-ft	52.10	\$252,141.49	\$13,136,572
Develop exist. Mauka perimeter driveway into new industrial street	If	2600	\$380.00	\$988,000
Acquire right-of-way to improve street layout and circulation	ac	6	\$3,000,000.00	\$18,000,000

TOTAL \$146,036,893



- * Based on KCT Wharf and Dredging bulkhead pier construction
- * Based on KCT cost yard construction
- * Based on KCT cost fill
- * Based on KCT cost pavement
- * Based on KCT cost fill
- * Assuming 2,600 lf road, 40' wide, 4" of ac pavement and 12" of aggregate base
- * Assuming 2,600 foot acquisition at 100 ' wide @ \$3.0 million per acre

UNIT COST BREAKDOWN

			KCT - Yard							Escalated	l Costs
	Item	Quantity	Unit	Price	Cost per Unit	date start	date future	date 2050	annual escalat	2023	2050
1	Mobilization and Demobilization	70	ac	\$10,100,000.00	\$144,285.71	1/1/2020	1/1/2023	1/1/2050	5.00%	\$167,034.33	\$623,636.19
2	Demolition - yard, buildings, structures, utilities ¹	70	ac	\$52,078,533.00	\$743,979.04	1/1/2020	1/1/2023	1/1/2050	5.00%	\$861,277.50	\$3,215,649.32
3	Excavation	70	ac	\$16,523,842.00	\$236,054.89	1/1/2020	1/1/2023	1/1/2050	5.00%	\$273,272.16	\$1,020,283.76
4	Pavement	70	ac	\$46,265,420.00	\$660,934.57	1/1/2020	1/1/2023	1/1/2050	5.00%	\$765,139.93	\$2,856,711.93
5	Sewer	70	ac	\$21,720,697.70	\$310,295.68	1/1/2020	1/1/2023	1/1/2050	5.00%	\$359,218.03	\$1,341,169.63
6	Water	70	ac	\$10,150,609.30	\$145,008.70	1/1/2020	1/1/2023	1/1/2050	5.00%	\$167,871.31	\$626,761.12
7	Drainage	70	ac	\$21,587,775.00	\$308,396.79	1/1/2020	1/1/2023	1/1/2050	5.00%	\$357,019.75	\$1,332,962.16
8	Electrical	70	ac	\$23,052,700.00	\$329,324.29	1/1/2020	1/1/2023	1/1/2050	5.00%	\$381,246.76	\$1,423,415.65
9	Environmental Concerns	70	ac	\$5,488,142.02	\$78,402.03	1/1/2020	1/1/2023	1/1/2050	5.00%	\$90,763.18	\$338,871.68
10	Security Fencing	70	ac	\$1,977,400.00	\$28,248.57	1/1/2020	1/1/2023	1/1/2050	5.00%	\$32,702.34	\$122,096.85
11	Traffic Control	70	ac	\$2,000,000.00	\$28,571.43	1/1/2020	1/1/2023	1/1/2050	5.00%	\$33,076.10	\$123,492.32
12	Signage and Pavement Markings	70	ac	\$800,000.00	\$11,428.57	1/1/2020	1/1/2023	1/1/2050	5.00%	\$13,230.44	\$49,396.93
13	Landscaping	70	ac	\$611,424.50	\$8,734.64	1/1/2020	1/1/2023	1/1/2050	5.00%	\$10,111.77	\$37,753.11
14	Other	70	ac	\$8,338,903.66	\$119,127.20	1/1/2020	1/1/2023	1/1/2050	5.00%	\$137,909.22	\$514,895.26
	Total cost per acre				\$3,152,792.10	1/1/2020	1/1/2023	1/1/2050	5.00%	\$3,649,872.84	\$13,627,095.91
			T Wharf and D								
	Item	Quantity	Unit	Price	Cost per Unit		date future		annual escalat	2023	2050
1	Dredging	5	pier	\$34,211,500.00	\$6,842,300.00	1/1/2020	1/1/2023	1/1/2050	5.00%	\$7,921,082.06	\$29,574,001.50
2	Demolition - piers ¹	3180	If	\$29,150,000.00	\$9,166.67	1/1/2020	1/1/2023	1/1/2050	5.00%	\$10,611.92	\$39,620.45
3	Fill material	70	ac-ft	\$15,246,142.00	\$217,802.03	1/1/2020	1/1/2023	1/1/2050	5.00%	\$252,141.49	\$941,390.69
4	Bulkhead Pier Construction Cost per LF	3180	If	\$408,339,775.00	\$128,408.73	1/1/2020	1/1/2023	1/1/2050	5.00%	\$148,654.13	\$555,012.22
			scellaneous Un								
	Item	Quantity	Unit	Price	Cost per Unit		date future		annual escalat	2023	2050
1	20907 Pier 15 (2012) - Mooring Dolphin Installed	5	ea	\$4,553,226.00	\$910,645.20	1/1/2016	1/1/2023	1/1/2050	5.00%	\$1,281,412.04	\$4,784,255.64
2	20907 Pier 15 (2021) - Mooring Bollard Installed	1	ea	\$17,015.77	\$17,015.77	1/1/2016	1/1/2023	1/1/2050	5.00%	\$23,943.70	\$89,395.73
3	Wave dampening design	1	If	\$20,000.00	\$20,000.00	1/1/2023	1/1/2023	1/1/2050	5.00%	\$20,000.00	\$74,671.62
4	Heavy lift pads - *150'x100'x2' or 1,111 cy at \$700/cy	1	ea	\$780,000.00	\$780,000.00	1/1/2023	1/1/2023	1/1/2050	5.00%	\$780,000.00	\$2,912,193.18
5	Sidewalk construction	1	sf	\$20.00	\$20.00	1/1/2023	1/1/2023	1/1/2050	5.00%	\$20.00	\$74.67
6	HC-1972 Pier 38 - Pier Construction Costs (1998)	743	If	\$6,970,781.08	\$9,381.94	1/1/1998	1/1/2023	1/1/2050	5.00%	\$31,769.52	\$118,614.06
7	St John Port Authority Pugsley C. and Long Wharf Terminal Elevated Walkway ²	394	If	\$3,300,000.00	\$8,375.63	1/1/2015	1/1/2023	1/1/2050	5.00%	\$12,375.00	\$46,201.67
8	Dredging - Pier 20 (2019)	400	If	\$276,000.00	\$690.00	1/1/2019	1/1/2023	1/1/2050	5.00%	\$839.00	\$3,131.35
9	Pile-and-Deck Pier Construction (Contractor and KAI Hawai'i expertise)	n/a	sf	n/a	\$4,500.00	1/1/2023	1/1/2023	1/1/2050	5.00%	\$4,500.00	\$16,801.11
10	Elevate pile-and-deck pier with spacers (derived from KAI Hawai'i est.)	n/a	sf	n/a	\$500.00	1/1/2023	1/1/2023	1/1/2050	5.00%	\$500.00	\$1,866.79

Notes:

Demolition costs include hazardous material handling and disposal.

Based on 20% of total 2015 project cost of \$16,500,000 which included fixed elevated structure, six 150-ton bollards, site grading, 2nd-story terminal improvements, new kitchen and patio, and miscellaneous other improvements.

FILL QUANTITY CALCULATIONS

Pier No.	Pier/Berth Length (LF)	Yard Area (SF) (from ACAD)	Future Yard Area (sf) C-(D+F)	Yard Area (AC)	Yard/Pier Existing Elevation (FT)	Yard/Pier Proposed Elevation (FT) 2019 MLLW with min. dsgn. Draft	Yard/Pier Elevation Increase (FT)	Raised Apron / Edge (FT)	Yard Fill (CY)	Yard Fill (AC FT)
1 & 2 Cargo	1175.00	1,524,545	1329221.00	30.51	7.25	11.10	3.85		189537.07	117.48
2 Cruise Terminal	1850.00	34310.00	34310.00	0.79	7.25	10.10	2.85	20.00	3621.61	2.24
4	325.00	3616.00	3616.00	0.08	6.50	8.10	1.60		214.28	0.13
5 & 6	545.00		0.00	0.00	6.00	10.10	4.10		0.00	0.00
5 & 6 Landside (by ATDC)		178,545	178545.00	4.10	7.50	10.10	2.60		17193.22	10.66
7DH	450.00	37026.00	37026.00	0.85	8.60		1.50		2057.00	1.28
7E	275.00		0.00	0.00	8.60	10.10	1.50		0.00	0.00
8-11	2176.00	34816.00	34816.00	0.80	7.00		3.10	16.00	3997.39	2.48
12	112.00	13580.89	13580.89	0.31	8.10		0.00		0.00	0.00
13-14E	775.00	1550.00	1550.00	0.04	7.00		1.10	2.00	63.15	0.04
15	485.00		0.00	0.00	7.00		1.10		0.00	0.00
16	930.00		0.00	0.00	7.00	8.10	1.10		0.00	0.00
17	965.00		0.00	0.00	5.00		3.10		0.00	0.00
18	210.00	59031.00	59031.00	1.36	6.00		2.10		4591.30	2.85
19 & 20 Cargo Piers	980.00	365996.00	365996.00	8.40	6.35	11.10	4.75		64388.19	39.91
19	580.00		0.00	0.00	6.35	11.10	4.75		0.00	0.00
20	400.00		0.00	0.00	6.35	11.10	4.75		0.00	0.00
21-22	665.00	43533.00	43533.00	1.00	6.00		2.10		3385.90	2.10
22-23	930.00	108761.00	108761.00	2.50	6.00	8.10	2.10		8459.19	5.24
Pier 23 Maritime Center	n/a	343344.00	343344.00	7.88	6.35	11.10	4.75		60403.11	37.44
24-25	945.00	18900.00	18900.00	0.43	6.00		2.10	20.00	1470.00	0.91
24	580.00	11600.00	11600.00	0.27	6.00	8.10	2.10	20.00	902.22	0.56
25	365.00	7300.00	7300.00	0.17	6.00	8.10	2.10	20.00	567.78	0.35
26	685.00	13700.00	13700.00	0.31	6.00	8.10	2.10	20.00	1065.56	0.66
27 - 29A	1800.00	34400.00	34400.00	0.79	7.00	8.10	1.10	20.00	1401.48	0.87
27	660.00	13200.00	13200.00	0.30	7.00		1.10	20.00	537.78	0.33
27DL	250.00	5000.00	5000.00	0.11	7.00	8.10	1.10	20.00	203.70	0.13
27E	0.00	0.00	0.00	0.00	7.00	8.10	1.10	20.00	0.00	0.00
28	490.00	9800.00	9800.00	0.22	7.00	8.10	1.10	20.00	399.26	0.25
29A	400.00	6400.00	6400.00	0.15	7.00	11.10	4.10	20.00	971.85	0.60
29	600.00	60000.00	60000.00	1.38	7.00	_	4.10	100.00	9111.11	5.65
30	270.00		0.00	0.00	6.00				0.00	0.00
31A-33 - Raise all for SLR	2045.00	663842.00	663842.00	15.24	7.00	11.10	4.10		100805.64	62.48
31A-33 - Raise apron for SLR	2045.00	204500.00	204500.00	4.69	7.00	11.10	4.10	100.00	31053.70	19.25
34 - Raise apron for SLR	210.00	4200.00	4200.00	0.10	7.00	11.10	4.10	20.00	637.78	0.40
35	910.00	18200.00	18200.00	0.42	7.00	10.10	3.10		2089.63	1.30
36DH	546.00		0.00	0.00	7.00	8.10	1.10		0.00	0.00
36E	430.00		0.00	0.00	7.00	8.10	1.10		0.00	0.00

FILL QUANTITY CALCULATIONS

Pier No.	Pier/Berth Length (LF)	Yard Area (SF) (from ACAD)	Future Yard Area (sf) C-(D+F)	Yard Area (AC)	Yard/Pier Existing Elevation (FT)	Yard/Pier Proposed Elevation (FT) 2019 MLLW with min. dsgn. Draft	Yard/Pier Elevation Increase (FT)	Raised Apron / Edge (FT)	Yard Fill (CY)	Yard Fill (AC FT)
37	408.00		0.00	0.00	7.00	8.10	1.10		0.00	0.00
38 (LAND-NIMITZ HWY)	990.00	15840.00	15840.00	0.36	5.00	8.10	3.10	16.00	1818.67	1.13
38 (PIER)	1140.00	18240.00	18240.00	0.42	5.00	8.10	3.10	16.00	2094.22	1.30
391A-40F - Raise all for SLR	5151.00	1750942.00	1750942.00	40.20	8.00	11.10	3.10		242145.19	150.10
391A-40F - Raise por. for SLR	5151.00	1100800.00	1100800.00	25.27	8.00	11.10	3.10		167499.26	103.83
41, 42 & 43 Cargo - KCT	2113.00	253560.00	253560.00	5.82	9.81	11.10	1.29		12114.53	7.51
41	250.00		0.00	0.00	9.81	11.10	1.29		0.00	0.00
42	963.00		0.00	0.00	9.81	11.10	1.29		0.00	0.00
43	900.00		0.00	0.00	9.81	11.10	1.29		0.00	0.00
51, 52, 53 pier, apron and yard	6135.00	6853842.00	6853842.00	157.34	8.00	11.10	3.10	120.00	786922.60	487.76
51, 52, 53 - 120-ft wide apron	4805.00	576600.00	576600.00	13.24	8.00	11.10	3.10	120.00	66202.22	41.03
51 (A-C)	2035.00	244200.00	244200.00	5.61	8.00	11.10	3.10	120.00	28037.78	17.38
52A to 53C	2050.00	246000.00	246000.00	5.65	8.20	11.10	2.90	120.00	26422.22	16.38
52 (A&B)	800.00	96000.00	96000.00	2.20	8.20	11.10	2.90	120.00	10311.11	6.39
53 (A-C)	1250.00	150000.00	150000.00	3.44	8.20	11.10	2.90	120.00	16111.11	9.99
60	452.00	897973.00	897973.00	20.61	7.00	11.10	4.10		136358.86	84.52

Notes:

- 1. Pier 34: 210 If raised 20-ft apron calculation: 545 If (Pier 34 berth) 130 If (pier 33 cut and raised apron) 205 If (portion of pier used by UH Research) = 210
- 1. Pier 391A-40F: Add 37,000 sf slipway infill area * 30-ft. depth (ARCGIS bathymetry layer) to fill quantity
- 2. Piers 51 to 53: Ramp Fill Volume = 30'x600'x3' (0.5% slope) = 1000 cy each x3 = 3,000 cy

PIER HEIGHT CALCULATIONS

Island	Harbor	Pier No.	Primary Operation/Vessel	Min. Freeboard of	Freeboard of	Difference in	Freeboard of	Freeboard of	Increase Pier	2050 Pier
				Current Pier Deck	Current Pier	height	Current Pier	Current Pier	Height by (ft) by	Height
				Required to	Deck at	between	Deck at	Deck with 3.2ft	2050:	(based on
				Function	MLLW *	MLLW and	MHHW	SLR @2060	(L-S)	2019 MLLW)
						MHHW **		MHHW		
Oahu	НО	1A	container	6	7.25	1.9	5.35	2.15	3.85	11.1
Oahu	НО	1B	container	6	7.25	1.9	5.35	2.15	3.85	11.1
Oahu	НО	2A	cruise/layberth	5	7.25	1.9	5.35	2.15	2.85	10.1
Oahu	НО	2B	cruise/layberth	5	7.25	1.9	5.35	2.15	2.85	10.1
Oahu	НО	2C	cruise/layberth	5	7.25	1.9	5.35	2.15	2.85	10.1
Oahu	НО	4	fishing/workboat	3	6.5	1.9	4.6	1.4	1.6	8.1
Oahu	НО	5	day excursion/ferry	5	6	1.9	4.1	0.9	4.1	10.1
Oahu	НО	6	day excursion/ferry	5	6	1.9	4.1	0.9	4.1	10.1
Oahu	НО	7DH	day excursion/ferry	5	8.6	1.9	6.7	3.5	1.5	10.1
Oahu	НО	7E	day excursion/ferry	5	8.6	1.9	6.7	3.5	1.5	10.1
Oahu	НО	8	day excursion/ferry	5	7	1.9	5.1	1.9	3.1	10.1
Oahu	НО	9	day excursion/ferry/layberth	5	7	1.9	5.1	1.9	3.1	10.1
Oahu	НО	10	cruise/layberth	5	7	1.9	5.1	1.9	3.1	10.1
Oahu	НО	11	cruise/layberth	5	7	1.9	5.1	1.9	3.1	10.1
Oahu	НО	12	tug	3	8.1	1.9	6.2	3	0	8.1
Oahu	НО	13	tug	3	7	1.9	5.1	1.9	1.1	8.1
Oahu	НО	14	tug	3	7	1.9	5.1	1.9	1.1	8.1
Oahu	НО	14E	tug	3	7	1.9	5.1	1.9	1.1	8.1
Oahu	НО	15	tug	3	7	1.9	5.1	1.9	1.1	8.1
Oahu	НО	16	fishing/workboat	3	7	1.9	5.1	1.9	1.1	8.1
Oahu	НО	17	fishing/workboat	3	5	1.9	3.1	-0.1	3.1	8.1
Oahu	НО	18	barge	3	6	1.9	4.1	0.9	2.1	8.1
Oahu	НО	19	cargo	6	6.35	1.9	4.45	1.25		11.1
Oahu	НО	20	cargo	6	6.35	1.9	4.45	1.25	4.75	11.1
Oahu	НО	21	tug	3	6	1.9	4.1	0.9	2.1	8.1
Oahu	НО	22	tug	3	6	1.9	4.1	0.9	2.1	8.1
Oahu	НО	23	workboats/tug	3	6	1.9	4.1	0.9	2.1	8.1
Oahu	НО	24	dry dock	3	6	1.9	4.1	0.9		8.1
Oahu	НО	25	dry dock	3	6	1.9	4.1	0.9	2.1	8.1
Oahu	НО	26	workboats/tug	3	6	1.9	4.1	0.9	2.1	8.1
Oahu	НО	27	workboats/tug	3	7	1.9	5.1	1.9	_	8.1
Oahu	НО	27DL	workboats/tug	3	7	1.9	5.1	1.9	1.1	8.1
Oahu	НО	27E	workboats/tug	3	7	1.9	5.1	1.9	1.1	8.1
Oahu	НО	28	tug/layberth	3	7	1.9	5.1	1.9	_	8.1
Oahu	НО	29	ro-ro/layberth	6	7	1.9	5.1	1.9	4.1	11.1
Oahu	НО	29A	ro-ro/layberth	6	7	1.9	5.1	1.9	4.1	11.1
Oahu	НО	30	barge	6	6	1.9	4.1	0.9	5.1	11.1
Oahu	НО	31A	cargo/barge/lay	6	7	1.9	5.1	1.9	4.1	11.1
Oahu	НО	31	cargo/barge/lay	6	7	1.9	5.1	1.9	4.1	11.1

PIER HEIGHT CALCULATIONS

Island	Harbor	Pier No.	Primary Operation/Vessel	Min. Freeboard of Current Pier Deck	Freeboard of Current Pier	Difference in height	Freeboard of Current Pier	Freeboard of Current Pier	Increase Pier Height by (ft) by	2050 Pier Height
				Required to	Deck at	between	Deck at	Deck with 3.2ft	2050:	(based on
				Function	MLLW *	MLLW and	MHHW	SLR @2060	(L-S)	2019 MLLW)
				1 4		MHHW **		MHHW	()	,
Oahu	но	32	cargo/ro-ro/lay	6	7	1.9	5.1	1.9	4.1	11.1
Oahu	НО	33	cargo/ro-ro/lay	6	7	1.9	5.1	1.9	4.1	11.1
Oahu	НО	34	cargo/ro-ro/lay	6	7	1.9	5.1	1.9	4.1	11.1
Oahu	НО	35	Research Vessel	5	7	1.9	5.1	1.9	3.1	10.1
Oahu	НО	36DH	fishing/workboat	3	7	1.9	5.1	1.9	1.1	8.1
Oahu	но	36DH	fishing/workboat	3	7	1.9	5.1	1.9	1.1	8.1
Oahu	НО	37	fishing/workboat	3	7	1.9	5.1	1.9	1.1	8.1
Oahu	НО	38	fishing/workboat	3	5	1.9	3.1	-0.1	3.1	8.1
Oahu	НО	391A	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	39A	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	39B	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	39C	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	39D	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	39E	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	39F	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	40A	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	40B	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	40C	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	40D	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	40E	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	40F	barge	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	41	container	6	9.81	1.9	7.91	4.71	1.29	11.1
Oahu	НО	42	container	6	9.81	1.9	7.91	4.71	1.29	11.1
Oahu	НО	43	container	6	9.81	1.9	7.91	4.71	1.29	11.1
Oahu	НО	51A	container	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	51B	container	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	51C	container	6	8	1.9	6.1	2.9	3.1	11.1
Oahu	НО	52A	container	6	8.2	1.9	6.3	3.1	2.9	11.1
Oahu	НО	52B	container	6	8.2	1.9	6.3	3.1	2.9	11.1
Oahu	НО	53A	container	6	8.2	1.9	6.3	3.1	2.9	11.1
Oahu	НО	53B	container	6	8.2	1.9	6.3	3.1	2.9	11.1
Oahu	НО	53C	container	6	8.2	1.9	6.3	3.1	2.9	11.1
Oahu	НО	60	barge	6	7	1.9	5.1	1.9	4.1	11.1

DEPARTMENT OF TRANSPORTATION HARBORS DIVISION THE NEW KAPALAMA CONTAINER TERMINAL YARD DESIGN AT HONOLULU HARBOR, OAHU, HAWAII. JOB H.C. 1692

BID TABULATION - PART I BID OPEN DATE: JUNE 16, 2017

	Bid Items	Kiewit Infrastructure West Co.			astructure West Co. Nan, Inc.			Watts Constructors, LLC Goodfellow Bros., Inc. Hawaiian D.				Hawailan Dredging Construction Company, Inc.				Road and Highway Builders, LLC			Engineer's Estimate										
ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT	TOTAL	EST. QTY	UNIT	UNIT	TOTAL	EST. QTY	UNIT	UNIT	TOTAL	EST. QTY	UNIT	UNIT	TOTAL	EST. QTY	UNIT	UNIT	TOTAL	EST. QTY	UNIT	UNIT	TOTAL	EST. QTY	UNIT	UNIT	TOTAL
PART I:	Mobilization and Demobilization	LS.	Lumo Sum	L.S.	\$8600.000.00	PART I: L.S.	Lump Sum		\$6,470,000,00	PART I: L.S.	Lump Sum	LS.	\$10.100.000.00	PART I: L.S.	Lump Sum	LS.	\$ 9.250.000.00	PART I: L.S.	Lump Sum	L.S.	\$ 4.929.475.00	PART I: L.S.	Lump Sum	L.S.	\$4.000.000.00	PART I: L.S.	Lump Sum	L.S.	\$ 8.500,000,00
2.	Demolition and removal of poles, floodlights, remote ballasts, including concrete bases, switcheast, lighting coronte, ferrigin flouding removal and religionaries, cold plaining, aprilat corontes, corontes, corontes, corontes, corontes halding slid dissile, building, disnippes, corontes, corontes halding slid dissile, building, disnippes, corontes, corontes, halding slid dissile, building, disnippes, corontes, corontes, corontes, corontes, building slid dissile, building, disnippes, corontes, corontes	LS.	Lump Sum	LS.	\$	LS.	Lump Sum	LS.	\$1,877,500.00	LS.	Lump Sum	LS.	\$ <u>6,719,117.42</u>	LS.	Lump Sum	LS.	\$_8,813,440.00	LS.	Lump Sum	LS.	\$_10,000,000.00	LS.	Lump Sum	LS.	\$ <u>21,000,000.00</u>	LS.	Lump Sum	LS.	s <u>6,500,000.00</u>
3.	Execution, characterization, profiling, and hauling of grossly contaminated doils and material for and residing including but of little to acid, concern building foundations, concrete footings, asphalt concrete payment, undergood utility structures, and foose material removed as part of the demolition and removal work, inclusive of execution, busing, disposal, equipment, tooks, biok, materials and incidentals recessary to complete the work.	LS.	Lump Sum	L.S.	\$ <u>3600,000.00</u>	LS.	Lump Sum	L.S.	\$ <u>8.555.400.00</u>	LS.	Lump Sum	LS.	\$ <u>4.898.739.22</u>	LS.	Lump Sum	LS.	\$_3000,000,00	LS.	Lump Sum	LS.	\$ 8.500.000.00	LS.	Lump Sum	LS.	\$ <u>9000,000,00</u>	LS.	Lump Sum	LS.	\$ <u>4.500.000.00</u>
4.	Excavation, characterization, profiling, and hashing of non- goods; contaminated soils and material for and resulting contaminated soils and material for and resulting limited to soil, concerned building functions; concerne footings, apphalt concrete payment, undergound utility structures, and boson material removed as part of the demolition and removal work, functives of secaration, hashing, disposal, experiment, slook, libor, materials and incidentate recessary to complete the work.	LS.	Lump Sum	LS.	S_4000,000.00	LS.	Lump Sum	LS.	\$ <u>13.851.500.00</u>	LS.	Lump Sum	LS.	\$ <u>2.640.710.82</u>	LS.	Lump Sum	LS.	\$3000.000.00	LS.	Lump Sum	LS.	\$ 15,900,000,00	LS.	Lump Sum	LS.	\$ <u>7.000.000.00</u>	LS.	Lump Sum	LS.	s <u>3.500.000.00</u>
	Reparating particulum growing and in-originarily contentional document for and resulting of contentional document for and resulting of contentional document for any state of the state of	LS.	Lump Sum	L.S.	sss	LS.	Lump Sum	L.S.	\$1.083.800.00	LS.	Lump Sum	LS.	\$ <u>127.361.96</u>	LS.	Lump Sum	LS.	s100.00	LS.	Lump Sum	L.S.	s 150,000,00	LS.	Lump Sum	LS.	\$ <u>500,000.00</u>	LS.	Lump Sum	L.S.	\$
6.	Demolition and removal of existing pole-mounted electrical transformers, assume 3 transformer per pole, inclusive of but not limited to disposal characterization analyses for PCBs, disposal of delectric fluid, and disposal of wooden utility poles.	33	Each	\$ <u>4,000.00</u>	\$132,000.00	33	Each	\$ <u>4,100.00</u>	\$135,300.00	33	Each	\$ 2,708.36	\$ 89,375.88	33	Each	\$	\$ 66,000.00	33	Each	\$ 2,150.00	\$	33	Each	\$ <u>10,000.00</u>	\$ 330,000.00	33	Each	\$ <u>3,500.00</u>	\$115,500.00
7.	Demotision and removal of existing pad-mounted electrical transformers, inclusive of but not limited to disposal characterization analyses for PCBs, disposal of dielectric fluid, and disposal of concrete stab.	16	Each	\$ <u>10,250.00</u>	\$164,000.00	16	Each	\$ 10,400.00	\$ 166,400.00	16	Each	\$ 4,317.16	\$ 69,074.56	16	Each	\$	\$32,000.00	16	Each	\$ 9,225.00	\$147,600.00	16	Each	\$ 12,000.00	\$ 192,000.00	16	Each	\$ 10,000.00	\$160,000.00
8.	Removal and disposal of PCB-containing light ballasts and mercury-containing light bulbs and tubes from buildings to be demoished.	Allow.	Allowance	Allow.	\$ 175,000.00	Allow.	Allowance	Allow.	\$ 175,000.00	Allow.	Allowance	Allow.	\$ <u>175,000.00</u>	Allow.	Allowance	Allow.	\$ <u>175,000.00</u>	Allow.	Allowance	Allow.	\$ <u>175,000.00</u>	Allow.	Allowance	Allow.	\$ <u>175,000.00</u>	Allow.	Allowance	Allow.	\$ <u>175,000.00</u>
9.	Sealing/abandonment of groundwater monitoring wells.	33	Each	\$1,300.00	S 42,900.00	33	Each	\$ 8,501.00	\$280,533.00	33	Each	\$ 6,162.28	\$203,355.24	33	Each	\$ <u>3,000.00</u>	\$ 99,000.00	33	Each	\$ 6,750.00	\$ 222,750.00	33	Each	\$ <u>1,000.00</u>	\$ 33,000.00	33	Each	\$ 7,500.00	\$247,500.00
10.	Preparation of Planning Documents, inclusive of EHMP	L.S.	Lumo Sum	L.S.	\$ 250,000.00	L.S.	Lump Sum	L.S.	\$ 189,000.00	L.S.	Lump Sum	LS.	\$ 997,633.43	L.S.	Lump Sum	LS.	\$ 750,000.00	L.S.	Lump Sum	L.S.	S 1,160,000.00	L.S.	Lump Sum	LS.	\$ 300,000.00	L.S.	Lump Sum	L.S.	\$ 350,000.00
11.	Contractors Environmental Qualified Consultant	L.S.	Lumo Sum	L.S.	\$450,000,00	L.S.	Lump Sum	L.S.	\$252,000.00	LS.	Lump Sum	LS.	\$ 518.230.27	L.S.	Lump Sum	LS.	s1.000.000.00	L.S.	Lump Sum	L.S.	\$406.000.00	L.S.	Lump Sum	LS.	\$ 500,000.00	L.S.	Lump Sum	L.S.	\$400.000.00
12.	Setup, maintenance, and removal of soil staging area for non-grossly contaminated soils.	L.S.	Lump Sum	L.S.	S 200.000.00	L.S.	Lump Sum	L.S.	S 109.300.00	L.S.	Lump Sum	LS.	S 131.954.01	L.S.	Lump Sum	LS.	s100.00	L.S.	Lump Sum	L.S.	S 392 000.00	L.S.	Lump Sum	LS.	\$ 60,000.00	L.S.	Lump Sum	L.S.	S 100.000.00
13.	Setup, maintenance, and removal of soil staging area for grossly contaminated soils.	L.S.	Lump Sum	L.S.	\$ 32,000.00	L.S.	Lump Sum	L.S.	\$ 109,300.00	L.S.	Lump Sum	LS.	\$ 131,954.01	L.S.	Lump Sum	LS.	\$ 100.00	LS.	Lump Sum	L.S.	\$ 1,392,000,00	L.S.	Lump Sum	LS.	\$ 60,000.00	L.S.	Lump Sum	L.S.	\$ 100,000.00
14.	Setup, maintenance, and removal of soil staging area for																	-			-								
15.	contaminated sediment.	L.S.	Lump Sum	L.S.	\$ 65,000.00	L.S.	Lump Sum	L.S.	\$ 109,300.00	LS.	Lump Sum	L.S.	\$ 131,964.01	L.S.	Lump Sum	LS.	\$100.00	LS.	Lump Sum	L.S.	\$ 153,000.00	L.S.	Lump Sum	LS.	\$ 25,000.00	L.S.	Lump Sum	L.S.	\$100,000.00
15.	Setup, maintenance, and removal of soil staging area for excavated landfill debris.	L.S.	Lump Sum	L.S.	S 65,000.00	L.S.	Lump Sum	L.S.	\$ 109,300.00	LS.	Lump Sum	LS.	\$ 131,964.01	L.S.	Lump Sum	LS.	S100.00	L.S.	Lump Sum	L.S.	\$ 304,000.00	L.S.	Lump Sum	LS.	\$ 60,000.00	L.S.	Lump Sum	L.S.	S100,000.00
16.	Removal and disposal of oily sheen/product from groundwater, during backtrenching.	Allow.	Allowance	Allow.	\$300,000.00	Allow.	Allowance	Allow.	\$ 300,000.00	Allow.	Allowance	Allow.	\$ 300,000.00	Allow.	Allowance	Allow.	\$ 300,000.00	Allow.	Allowance	Allow.	S 300,000.00	Allow.	Allowance	Allow.	\$ 300,000.00	Allow.	Allowance	Allow.	\$ 300,000.00
	DEMOLITION				52.078.533.00																								
17.	Excavation, characterization, profiling, and hauling of grossly contaminated solls for site grading inclusive of excavation, hauling, disposal, equipment, tools, labor, materials and incidentals necessary to complete the work.	LS.	Lump Sum	L.S.	S4.791.842.00	LS.	Lump Sum	L.S.	\$6.030.400.00	LS.	Lump Sum	LS.	\$ <u>11,930,450,19</u>	LS.	Lump Sum	LS.	\$3500,000,00	L.S.	Lump Sum	LS.	\$ 9,100,000,00	L.S.	Lump Sum	LS.	\$ 5,000,000,00	LS.	Lump Sum	LS.	\$ 8.000.000.00
18.	Excavation, characterization, profiling, and hauling of non- grossly contaminated soils for site grading inclusive of excavation, hauling, disposal, equipment, tools, labor, materials and incidentals necessary to complete the work.																												
		LS.	Lump Sum	L.S.	\$ <u>2,800,000.00</u>	LS.	Lump Sum	L.S.	\$ <u>6,046,100.00</u>	LS.	Lump Sum	LS.	\$5,881,695.14	L.S.	Lump Sum	LS.	\$5,500,000.00	L.S.	Lump Sum	LS.	S <u>6,800,000.00</u>	L.S.	Lump Sum	LS.	\$	LS.	Lump Sum	L.S.	\$6,000,000.00
19.	Separating petroleum grossly and non-grossy contaminated material for site grading, non-grossy contaminated material for site grading, the separating material, the separating material, tools, bloor, materials, and notidentals necessary to complete the work, as well as protective wear, safety plan, and other costs related to petroleum contamination.	LS.	Lump Sum	LS.	S 22,000.00	LS.	Lump Sum	L.S.	\$ <u>831,300.00</u>	LS.	Lump Sum	LS.	\$407,242.76	LS.	Lump Sum	LS.	\$ 100.00	LS.	Lump Sum	LS.	\$ <u>31,000.00</u>	LS.	Lump Sum	LS.	\$	LS.	Lump Sum	LS.	\$ <u>750,000.00</u>
20.	Overexcavation, characterization, profiling, and hauling of grossily contaminated soils for subgrade sabilization and stabilization of local spots inclusive of excavation hauling, disposal, equipment, tools, labor, materials and incidentals necessary to complete the work.	Allow.	Allow.	Allow.	\$ 2,250,000.00	Allow.	Allow.	Allow.	\$2,250,000.00	Allow.	Allow.	Allow.	\$ 2,250,000.00	Allow.	Allow.	Allow.	\$ 2,250,000.00	Allow.	Allow.	Allow.	\$ <u>2,250,000.00</u>	Allow.	Allow.	Allow.	\$ 2,250,000.00	Allow.	Allow.	Allow.	\$
	Overexcavation, characterization, profiling, and hauling of non-grossly contaminated solis for subgrade satisfization and stabilization of local soft spots inclusive of excavation, hauling, disposal, equipment, tools, labor, materials and incidentals necessary to complete the work.	Allow.	Allow.		s100.000.00	Allow.	Allow.	Allow.	\$ 100,000.00	Allow.	Allow.	Allow.	s100,000,00	Allow.	Allow.	Allow.	\$ 100,000.00	Allow.	Allow.	Allow.	\$	Allow.	Allow.	Allow.	\$	Allow.	Allow.	Allow.	s 100 000.00
22.	Separating petroleum grossly and non-grossly contaminated material for subgrade stabilization contaminated material for subgrade stabilization femiled to, physically separating material, time associated with and required for separating material, tools, labor, materials, and incideratals necessary to complete the work, as well as protective wear, safety plan, and other costs related																												
23.	to petroleum contamination. Removed from Scope	Allow.	Allow.	Allow.	\$560.000.00	Allow.	Allow.	Allow.	\$ 560,000.00	Allow.	Allow.	Allow.	\$560.000.00	Allow.	Allow.	Allow.	\$560,000.00	Allow.	Allow.	Allow.	\$560,000,00	Allow.	Allow.	Allow.	\$560.000.00	Allow.	Allow.	Allow.	\$

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	EXCAVATION				22,471,750.19																								
24.	Embarkment for site grading, settlement, and surcharging, inclusive of import, backfull, heating, removal and relocation of materials, equipment, tools, labor, materials, and incidentals necessary to complete the work.	LS.	Lump Sum	L.S.	\$ <u>6.000.000.00</u>	LS.	Lump Sum	L.S.	\$ <u>5.053.300.00</u>	LS.	Lump Sum	LS.	\$ <u>7.052.160.47</u>	LS.	Lump Sum	LS.	\$ <u>15.246.142.00</u>	LS.	Lump Sum	L.S.	\$2.300.000.00	LS.	Lump Sum	LS.	\$ <u>3.000.000.00</u>	LS.	Lump Sum	LS.	\$ <u>6.250.000.00</u>
25.	10" Thick Asphalt concrete Base Course, in place, complete.	6,450	Square Yard	\$ 70.00	\$ 451,500.00	6,450	Square Yard	\$ 79.00	\$ 509,550.00	6,450	Square Yard	\$ <u>77.34</u>	\$ 498.843.00	6,450	Square Yard	\$ <u>68.00</u>	\$ 438,600.00	6,450	Square Yard	\$ 63.00	\$ 406.350.00	6,450	Square Yard	\$ 120.00	\$ 774,000.00	6,450	Square Yard	\$ 85.00	\$ 548.250.00
26.	Grade retaining walls, inclusive of bacidit, footing, piping, equipment, tools, labor, materials, and incidentals to complete the work in place.	4,450	Linear Foot	\$	\$	4,450	Linear Foot	\$ 649.00	\$2,888,050.00	4,450	Linear Foot	\$ 578.01	\$2,572,144.50	4,450	Linear Foot	\$ 925.00	\$_4,116,250.00	4,450	Linear Foot	\$680.00	\$3,026,000.00	4,450	Linear Foot	\$1,200.00	\$ 5,340,000.00	4,450	Linear Foot	\$600.00	\$ 2,670,000.00
27.	Tensar TX-160 or approved equal triaxial geogrid, inclusive of installation, equipment, tools, labor, materials, and incidentals necessary to complete the work.	581,350	Square Foot	\$ <u>2.00</u>	S1.162.700.00	581,350	Square Foot	s <u>0.79</u>	\$ 459.266.50	581,350	Square Foot	\$ <u>1.34</u>	\$ <u>779.009.00</u>	581,350	Square Foot	S 1.30	s 755.755.00	581,350	Square Foot	S1.60	\$ 930.160.00	581,350	Square Foot	S 1.00	\$581.350.00	581,350	Square Foot	\$ <u>2.50</u>	\$ <u>1.453.375.00</u>
28.	pavement, in place, complete.	2,050	Cubic Yard	\$ 125.00	\$ 256,250.00	2,050	Cubic Yard	\$ 99.00	\$ 202,950.00	2,050	Cubic Yard	\$ 86.23	\$ <u>176.771.50</u>	2,050	Cubic Yard	\$ <u>180.00</u>	S 369,000,00	2,050	Cubic Yard	\$ 150.00	\$	2,050	Cubic Yard	\$ 60.00	\$ 123,000.00	2,050	Cubic Yard	\$ 95.00	\$ 194,750.00
29.	Aggregate base course for the Portland cement concrete pavement, in place, complete.	47,660	Cubic Yard	\$ 92.00	\$ 4.384,720.00	47,660	Cubic Yard	\$ 96.00	\$ 4.575,360.00	47,660	Cubic Yard	\$ 82.00	\$3.908.120.00	47,660	Cubic Yard	\$ <u>135.00</u>	\$ <u>6.434,100.00</u>	47,660	Cubic Yard	\$ 123.00	\$ 5.862.180.00	47,660	Cubic Yard	\$ 80.00	\$ 3.812.800.00	47,660	Cubic Yard	\$ 95.00	\$ 4.527.700.00
30.	Portland cement concrete curbs, inclusive of Portland cement concrete, furnishing, placing, and removing of forms, protection devices, furnishing and placing curing materials, joints, grinding and grooving, testing and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place.	2,350	Linear Foot	\$80.00	S 188,000.00	2,350	Linear Foot	\$ <u>29.00</u>	\$ 68,150.00	2,350	Linear Foot	\$ <u>42.28</u>	\$ 99,358.00	2,350	Linear Foot	\$ <u>60.00</u>	S 141,000.00	2,350	Linear Foot	\$ 43.00	\$ 101,050.00	2,350	Linear Foot	S 200.00	\$ 470,000.00	2,350	Linear Foot	\$35.00	s <u>82,250.00</u>
31.	Portland coment concrete sidewalks, inclusive of Portland coment concrete, furnishing placing, and removing of forme, protection devices, furnishing and placing curing materials; joints, grinding and growing stating, and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place.	725	Square Yard	\$ <u>130.00</u>	\$ <u>94.250.00</u>	725	Square Yard	\$ <u>118.00</u>	\$ <u>85.550.00</u>	725	Square Yard	\$ <u>67.79</u>	\$ <u>49.147.75</u>	725	Square Yard	\$ <u>165.00</u>	\$ <u>119.625.00</u>	725	Square Yard	\$ <u>260.00</u>	\$ <u>188.500.00</u>	725	Square Yard	\$ <u>200.00</u>	\$ <u>145.000.00</u>	725	Square Yard	\$100.00	\$ <u>72.500.00</u>
32.	Porfared connect concrete parameter, inclusive of reinforcementer, develve, for bars, other joint materials: furnishing, placing, and removing of times, protection devices, furnishing and placing curing forms, protection devices, furnishing and placing curing times, protection devices, furnishing and placing curing places, and timervents construction payarianos, fustioning concess learning basefuling holes, and grouving, conting concess learning basefuling holes, and grouving, conting concess learning basefuling holes, and grouving, conting concess learning basefuling holes, and grouver, conting concess learning basefuling holes, and grouver, continued to consider the continued of continued to continued to	113,000	Cubic Yard	\$ 280.00	S 31,640,000.00	113,000	Cubic Yard	\$ 339.00	\$ 38,307,000.00	113,000	Cubic Yard	\$ 407.36	\$ 46,031,680.00	113,000	Cubic Yard	\$415.00	\$ 46,895,000.00	113,000	Cubic Yard	\$ 355.00	\$ 40,115,000.00	113,000	Cubic Yard	\$ <u>550.00</u>	\$_ 62,150,000.00	113,000	Cubic Yard	\$ 385.00	\$ 43,505,000.00
33.	Portland cement concrete for concrete transition sible, inclusive of forming, placing, curing, equipment, tools, labor, materials, and incidentals, in place, complete.	40	Cubic Yard	\$ 1.500.00	\$ 60,000.00	40	Cubic Yard	\$ 591.00	\$ 23.640.00	40	Cubic Yard	\$ 382.06	\$ 15.282.40	40	Cubic Yard	S 1.000.00	\$ 40,000.00	40	Cubic Yard	\$ 530.00	\$ <u>21,200.00</u>	40	Cubic Yard	\$ <u>2.750.00</u>		40	Cubic Yard	\$ 385.00	\$ 15,400.00
34.	2" Thick Asphalt concrete pavement, Mix IV, in	40	Cobic raid	3 1.500.00	5	40	Cubic raid	5 521.00	3 23.840.00	*0	Codic raid	3 302.00	5 15.262.40	40	Cobic faid	3_1,00,00	40.000.00	***	Codic raid	a <u>530.00</u>	3 21200.00	40	Cubic Faed	a	3	***	Cobic raid	s	3 15.400.00
104.	place, complete.	15.300	Square Yard	\$ 20.00	\$ 306,000.00	15.300	Square Yard	S 22.00	\$ 336,600.00	15,300	Square Yard	\$ 21.88	\$ 334.764.00	15.300	Square Yard	S 18.00	\$ 275,400.00	15,300	Square Yard	\$ 17.75	\$ 271.575.00	15.300	Square Yard	S 100.00	\$ 1.530.000.00	15.300	Square Yard	\$ 25.00	\$ 382,500,00
104.	Bacifit and placement of Tenser TX-160 or approved speal googst in soft and yelderig areas for subgrade stabilization and bacifit and placement of Minri 160N or approved equal non-woven filter fabric for stabilization of local soft aposis, include or bacifit, placing, equipment, tools, soft aposis, include or bacifit, placing, equipment, tools, to complete the work in place.	Allow.	Allowance	Allow.	SS0.000.00	Allow.	Allowance	Allow.	s 350,000.00	Allow.	Allowance	Allow.	\$ <u>350 000.00</u>	Allow.	Allowance	Allow.	\$ <u>350,000.00</u>	Allow.	Allowance	Allow.	\$ <u>350,000,00</u>	Allow.	Allowance	Allow.	\$ <u>350,000,00</u>	Allow.	Allowance	Allow.	s <u>350.000.00</u>
105.	5" Thick Asphalt concrete pavement, Mix IV, in place, complete.	6,300	Square Yard	S 40.00	S 252,000,00	6,300	Square Yard	S 46.00	\$ 289,800.00	6,300	Square Yard	\$ 45.60	S 287.280.00	6,300	Square Yard	S 37.00	\$ 233.100.00	6,300	Square Yard	\$ <u>40.00</u>	\$252.000.00	6,300	Square Yard	S 150.00	\$ 945,000.00	6,300	Square Yard	\$ 45.00	\$ 283,500,00
	PAVEMENT				95.849.442.00																								
35.	4" dameter pipe for pressure sever system, inclusive of backfill, all fittings, labor, materials, sook, and incidentals required to construct the pipelines, in place, complete.	1,985	Linear Foot	\$ <u>20.00</u>	\$	1,985	Linear Foot	S 116.00	\$ <u>230,260.00</u>	1,985	Linear Foot	\$ 85.50	S 169,717.50	1,985	Linear Foot	\$ <u>75.00</u>	\$148,875.00	1,985	Linear Foot	\$94.00	\$ <u>186,590.00</u>	1,985	Linear Foot	S 400.00	\$ <u>794,000.00</u>	1,985	Linear Foot	\$ <u>125.00</u>	\$248,125.00
36.	6" diameter pipe for gravity sewer system, inclusive of backfill, all fittings, labor, materials, tools, and incidentals required to construct the pipelines, in place, complete.	530	Linear Foot	\$ <u>45.00</u>	S23.850.00	530	Linear Foot	\$ <u>132.00</u>	\$ 69.960.00	530	Linear Foot	\$ <u>172.43</u>	\$ 91.387.90	530	Linear Foot	\$ <u>210.00</u>	\$111,300,00	530	Linear Foot	\$ <u>150.00</u>	\$	530	Linear Foot	S 500.00	\$265.000.00	530	Linear Foot	\$ <u>150.00</u>	s 79.500.00
37.	8" diameter pipe for gravity sewer system, inclusive of backfill, all fittings, labor, materials, tools, and incidentals required to construct the pipelines, in place, complete.	2,285	Linear Foot	\$ <u>20.00</u>	S 45,700.00	2,285	Linear Foot	\$ <u>126.00</u>	\$287,910.00	2,285	Linear Foot	\$ 202.80	\$ 463,398.00	2,285	Linear Foot	\$ <u>135.00</u>	\$ 308,475.00	2,285	Linear Foot	\$_1,370.00	\$3,130,450.00	2,285	Linear Foot	s_600.00	S 1,371,000.00	2,285	Linear Foot	\$ <u>175.00</u>	\$ 399,875.00
38.	Structurally designed sewer manhole structure, inclusive of backfill, rebar, botts, welding, connections, coatings, all equipment, tools, labor, materials, and appurtenances required for construction, in place, complete.	3	Each	\$ <u>33.000.00</u>	S	3	Each	\$ <u>25.523.00</u>	\$ <u>76.569.00</u>	3	Each	\$ <u>28.764.31</u>	\$ <u>86.292.93</u>	3	Each	\$ <u>60.000.00</u>	\$ <u>180,000.00</u>	3	Each	\$_47.000.00	\$141.000.00	3	Each	s <u>20.000.00</u>	\$ <u>60.000.00</u>	3	Each	\$ <u>30.000.00</u>	ss
39.	Standard sewer manhole structure, inclusive of backfill, rebar, bots, welding, connections, coaling, all equipment, tools, labor, materials, and appurtenances required for construction, in place, complete.	10	Each	\$ <u>20,000.00</u>	s	10	Each	\$ <u>25,291.00</u>	\$ 252,910.00	10	Each	\$ _28,819.77	\$ 288,197.70	10	Each	\$ <u>25,000.00</u>	\$ <u>250,000.00</u>	10	Each	\$ 25,000.00	\$ 250,000.00	10	Each	S_20,000.00	\$	10	Each	\$ 25,000.00	\$ <u>250,000.00</u>
40.	Transition sewer marrhole structure, inclusive of backfill, rebar, boles, welding, connections, coalings, all equipment, tools, labor, materials, and appurtenances required for construction, in place, complete.	1	Each	\$ <u>33,000.00</u>	ss	1	Each	\$ <u>22.800.00</u>	\$ <u>22.800.00</u>	1	Each	\$ _29.925.51	\$29.925.51	1	Each	\$ <u>60.000.00</u>	\$ <u>60,000.00</u>	1	Each	\$ <u>49.000.00</u>	\$ 49,000,00	1	Each	S 30,000,00	s	1	Each	\$ <u>27.500.00</u>	\$ <u>27.500.00</u>
41.	Shallow drop sewer manhols structure, inclusive of backfill; rebar, bolts, selding, connections, coatings, all equipment, tools, labor, materials, and appurtenances required for construction, in place, complete.	1	Each	\$ <u>33,000,00</u>	\$33,000,00	1	Each	\$ <u>19.800.00</u>	\$ 19.800.00	1	Each	\$ <u>40.144.81</u>	\$ <u>40.144.81</u>	1	Each	\$ <u>62.500.00</u>	\$ <u>62,500.00</u>	1	Each	\$ <u>24,000.00</u>	\$ <u>24,000,00</u>	1	Each	s <u>30.000.00</u>	\$	1	Each	\$ <u>27.500.00</u>	\$ <u>27.500.00</u>
42.	Sewer pump station inclusive of wet well, pumps, pipes, covers, fittings, chairs, floats, penetrations, anti-flotation components, backfill and all equipment, tools, labor, materials, and appurtenances in place, complete.	LS.	Lump Sum	L.S.	S 185,000.00	LS.	Lump Sum	LS.	S 117,400.00	LS.	Lump Sum	LS.	\$ <u>192,609.19</u>	LS.	Lump Sum	LS.	\$ <u>350,000.00</u>	LS.	Lump Sum	L.S.	\$ <u>435,000.00</u>	LS.	Lump Sum	LS.	\$ 150,000.00	LS.	Lump Sum	L.S.	\$175,000.00
43.	Connection to the existing sewer system.	L.S.	Lumo Sum	L.S.	\$ 230,000.00	L.S.	Lump Sum	L.S.	\$ 9,100.00	L.S.	Lump Sum	L.S.	\$ 7,458.11	L.S.	Lump Sum	LS.	\$ 265,000.00	L.S.	Lump Sum	L.S.	\$12,000.00	L.S.	Lump Sum	L.S.	\$ 30,000.00	L.S.	Lump Sum	L.S.	\$ 8,500.00
44.	Execution of grossly contaminated soils for installation of sever system, such explain, drainage system, and electrical system, inclusive of handling, strong, and disposal in accordance with Article 32. Handling and Removal of Comparison 12. Handling and Removal of Comparison (International Comparison of Comparison Comparison (International Comparison of Comparison Comparison Comparison Comparison to Comparison Comparison (International Comparison																			LS.		LS.							
	the work.	LS.	Lump Sum	L.S.	\$ 3,365,000.00	L.S.	Lump Sum	L.S.	\$2,817,300.00	LS.	Lump Sum	LS.	\$ 4,142,672.51	L.S.	Lump Sum	LS.	\$ 95,000.00	L.S.	Lump Sum	L.S.	S 4,100,000.00	L.S.	Lump Sum	L.S.	\$ 150,000.00	L.S.	Lump Sum	L.S.	\$3,500,000.00

4a. Exclusion of non-grossy consumentates ossic principal in installation of severe system, water system, drainings system, and electrical system inclusive of handling, storage, disposal, and intenshing labor, materials, equipment, tools and incidentate necessary to complete the work.	LS.	Lump Sum	L.S.	S 13 000 000 00	LS.	Lump Sum	LS.	\$5919.900.00	LS.	Lump Sum	LS.	\$2148.766.89	LS.	Lump Sum	LS.	S 110.000.00	LS.	Lump Sum	LS.	\$ <u>6.300.000.00</u>	L.S.	Lump Sum	LS.	ss	LS.	Lump Sum	LS.	\$3.500.000.00
46. Separating goodly and non-goodly contaminated material for installation of some rystem, water system, distinguish system, and electrical system, something the contamination associated with replaced separating materials than associated with replaced separating materials than associated with replaced and incident annecessary to complete the such, as well as protective wear, safety plan, and other costs instant on protective water, safety plan, and other costs instant or committee contamination. 508 509 509 509 500 500 500 500	L.S. Allow.	Lump Sum Allowance	L.S. Allow.	S 800,000,00 S 100,000,00	L.S. Allow.	Lump Sum Allowance	LS. Allow.	\$ <u>579,400.00</u> \$ <u>100.000.00</u>	LS. Allow.	Lump Sum Allowance	LS. Allow.	\$	LS. Allow.	Lump Sum Allowance	LS. Allow.	\$	L.S. Allow.	Lump Sum Allowance	L.S. Allow.	\$ <u>136,000.00</u> \$ <u>100,000.00</u>	LS. Alow.	Lump Sum Allowance	LS. Allow.	\$ 100,000,00 \$ 100,000,00	LS.	Lump Sum Allowance	LS. Allow.	s <u>350,000,00</u> s <u>100,000,00</u>
SEWER				21,720,697.70																								
47. Where you've provincemon, include or a baddill, crushed containing and declarating and settled coverage for province and steared coverage for produced pressure protepts badding prevention, gas valves, can then valve and as prevention, gas valves, can then valve and as prevention, gas valves, can then valve and as declaration makes declaration makes, declaration makes and decreation makes readed (2 each), filtering, and copylings connected for insection folicits, foliation in small or conventions; extending containing the content of the	LS.	Lump Sum	L.S.	\$1600.000.00	L.S.	Lump Sum	LS.	\$ <u>2.573.500.00</u>	LS.	Lump Sum	LS.	\$ <u>3,839,873,85</u>	L.S.	Lump Sum	LS.	\$ <u>2.500.000.00</u>	LS.	Lump Sum	LS.	\$ <u>4100.000.00</u>	LS.	Lump Sum	LS.	S 4000,000,00	LS.	Lump Sum	Ls.	S 3250,000,00
48. 6" diameter pipe and fittings for domestic water system and fire protection water system construction, inclusive of all labor, material, equipment, took, and incidentals required to construct the pipelines, in place, complete.	740	Linear Foot	\$ <u>60.00</u>	S 44,400.00	740	Linear Foot	\$ <u>15.00</u>	\$ 11,100.00	740	Linear Foot	\$ 80.70	\$ 59,718.00	740	Linear Foot	\$ <u>225.00</u>	\$ 166,500.00	740	Linear Foot	\$ 75.00	\$ 55,500.00	740	Linear Foot	\$ <u>300.00</u>	\$ 222,000.00	740	Linear Foot	\$ 150.00	S111,000.00
49. 8" diameter type and fittings for domestic water system and fire protection water system or construction, inclusive of all labor, material, equipment; tools, and incidentals required to construct the pipelines, in place, complete.	8,165	Linear Foot	\$ <u>60.00</u>	S 489.900.00	8,165	Linear Foot	s <u>15.00</u>	\$ <u>122,475.00</u>	8,165	Linear Foot	\$ 92.42	\$ <u>754.609.30</u>	8,165	Linear Foot	\$ <u>90.00</u>	\$ <u>734.850.00</u>	8,165	Linear Foot	\$ 33.00	\$ <u>269.445.00</u>	8,165	Linear Foot	\$ <u>320.00</u>	\$ 2,612,800,00	8,165	Linear Foot	\$ <u>175.00</u>	\$ <u>1.428.875.00</u>
10" diameter pipe and fittings for domestic water system and fire protection water system construction, inclusive of all labor, material, equipment, book, and indicentals required to construct the pipelines, in place, complete.	95	Linear Foot	\$ <u>120.00</u>	S 11.400.00	95	Linear Foot	\$ <u>15.00</u>	\$ <u>1.425.00</u>	95	Linear Foot	\$ <u>192.74</u>	\$18.310.30	95	Linear Foot	S <u>150.00</u>	\$ 14,250.00	95	Linear Foot	\$ <u>122.00</u>	S11.590.00	95	Linear Foot	s <u>600.00</u>	\$ <u>57.000.00</u>	95	Linear Foot	\$	S19,000,00
12" diameter pipe and fittings for domestic water system and fits protection water system construction, inclusive or all labor, material, equipment, tools, and incidentals required to construct the pipelines, in place, complete.	6,620	Linear Foot	\$ <u>60.00</u>	S 397,200.00	6,620	Linear Foot	\$ <u>52.00</u>	\$ <u>344,240.00</u>	6,620	Linear Foot	\$ <u>121.99</u>	\$ <u>807,573.80</u>	6,620	Linear Foot	S 345.00	\$ 2,283,900.00	6,620	Linear Foot	\$ <u>44.00</u>	\$ 291,280.00	6,620	Linear Foot	\$ <u>350.00</u>	\$ <u>2,317,000.00</u>	6,620	Linear Foot	\$ <u>225.00</u>	\$1,489,500.00
52. 16° diameter pipe and fittings for domestic water system and fire protection water system construction, inclusive of all labor, material, equipment; tools, and incidentals required to construct the pipelines, in place, complete.	375	Linear Foot	\$	S 146.250.00	375	Linear Foot	\$ <u>701.00</u>	\$ <u>262.875.00</u>	375	Linear Foot	\$ <u>478.76</u>	S 179.535.00	375	Linear Foot	S <u>180.00</u>	\$ <u>67.500.00</u>	375	Linear Foot	\$ <u>63.00</u>	\$ <u>23.625.00</u>	375	Linear Foot	S <u>800.00</u>	\$ <u>300,000,00</u>	375	Linear Foot	\$ <u>400.00</u>	\$ 150,000,00
53. Removed from Scope 54. Removed from Scope																												
Removed from Scope Water system facilities charges. No Contractor's mark-up will be allowed for this item.	Allow.	Allowance	Allow.	S 2,400,000.00	Allow.	Allowance	Allow.	\$ 2,400,000.00	Allow.	Allowance	Allow.	\$ 2,400,000.00	Allow.	Allowence	Allow.	\$ 2,400,000.00	Allow.	Allowance	Allow.	S 2,400,000.00	Allow.	Allowance	Allow.	\$ 2,400,000.00	Allow.	Allowance	Allow.	\$ 2,400,000.00
WATER				10,150,609.30																								
	500	Linear Foot	\$ 3500.00	10,150,609.30 S 1,750,000.00	500	Linear Foot	\$ 3,360,00	\$1.680,000,00	500	Linear Foot	\$2,858.30	\$ 1,429,150,00	500	Linear Foot	\$ 5.835.00	\$ 2917.500.00	500	Linear Foot	\$ 3.100.00	\$ 1.550,000,00	500	Linear Foot	\$_1200.00	\$ 600,000,00	500	Linear Foot	\$ 3,000.00	\$1500,000,00
56. 4 x 3 box culvert, inclusive of basdell, 4 x 3 reinforced concrete box culvert, connections, sprent reporting, and all experients, tools, labor, materials, in places, completion, proper, proper for connections, in process, completion. 57. 7 x 6 box culvert, inclusive of basdell, 7 x 4	500	Linear Foot			500		\$_380.00_ \$_4219.00	\$ <u>1680,000,00</u> \$ <u>3311,915,00</u>	500			\$1429150.00 \$3136588.30	500		S 5.835.00	\$2917.500.00 \$5385.475.00	500			\$ <u>1.550,000,00</u> \$ <u>4.317,500,00</u>				\$600,000,00_ \$1413,000,00	500	Linear Foot	\$_300000_ \$_420000	\$ <u>1500,000,00</u> \$ <u>3297,000,00</u>
4 x 3 tox culvert, witchesin of backfill, if x 3 methodised conceils box culvert, consocious, smenth methodised conceils box culvert, consocious, smenth with a conceil conceils box, and applicationness required for contributions, sin place, complete. 7 x x is tox culvert, visitative of backfill, 7 x is methodised conceils box culvett, consocious, smenth with a conceil conceils box culvett, consocious, smenth with a conceil conceils box culvett, consocious, smenth protect, complete. 3 methodised contribution contribution of shade, both, western, and				\$ <u>1.750.000.00</u>		Linear Foot			785	Linear Foot				Linear Foot			785	Linear Foot							785	Linear Foot		
56. 4 x 3 tox culvert, witchesin of backlift, 4 x 3 medicated conceils box culvert, connections, trench medicated conceils box culvert, connections, trench and applications of applications in a place, complete. 7 x = 6 tox content, included of connections, trench medicated conceils box culvert, connections, trench and applications of applications of applications of applications in place, complete. 28 "We will be renth may include on of shall, both, western, and other larges regulated for connections, in place, complete.				\$ <u>1.750.000.00</u>		Linear Foot								Linear Foot							785	Linear Foot						
56. 4 x 3 loc colors, reducin or baddle, 4 x 2 regions, and a color baddle, 4 x 2 regions, and all explanars, both, later, research, and appropriate planers, both later, research, and appropriate planers, both later, research, project, corpolate, lateral or baddle, 7 x 4 regions, both later, research, project, corpolate, lateral or baddle, 7 x 6 regions, and department, both, later, research, and lateral research, and all research respected for communities, and all research respected for communities.	785	Linear Foot	\$_5000.00	\$ <u>1750,000.00</u> \$ <u>3925,000.00</u>	785	Linear Foot	\$ <u>4.219.00</u>	\$3311.915.00	785	Linear Foot	\$ <u>3.994.38</u>	\$3.135.588.30	785	Linear Foot	\$ <u>6.835.00</u>	\$ <u>5 365.475.00</u>	785	Linear Foot	\$_5500.00_	\$ <u>4.317.500.00</u>	785	Linear Foot	\$1,800.00	\$ <u>1.413.000.00</u> \$ <u>2.064.000.00</u>	785	Linear Foot	\$_4.200.00_	\$ <u>3.297.000.00</u>
56. 4 x 3 tox columnt, verbalative of baschlift, 4 x 3 meriforced concreta for solvant, convections, trench meriforced concreta for solvant, convections, trench and solvant, convections, trench and solvant, convections, trench and solvant, convections, trench protect, complete. 57 x x 4 for solvant, relative of baschlift, 7 x 4 meriforced concreta for solvant, convections, trench and solvant convections, trends and solvant convections,	785 1,580	Linear Foot	\$_5000.00_ \$_2500.00_	\$ 1750,000,00 \$ 1905,000,00 \$ 1960,000,00 \$ 5,750,000,00	785	Linear Foot Linear Foot	\$ <u>4.219.00</u> \$ <u>2.196.00</u>	\$3.311.915.00 \$3.469.680.00	785	Linear Foot	\$3994.38 \$1651.71 \$1625.93	\$3,135,588,30\$\$\$	785	Linear Foot Linear Foot	\$ <u>6.835.00</u> \$ <u>3.085.00</u>	\$ <u>5.365.476.00</u> \$ <u>4.874.300.00</u>	785 1,580	Linear Foot	\$	\$ <u>4.317.500.00</u> \$ <u>3.096.800.00</u>	785	Linear Foot	S	\$	785	Linear Foot	\$_4200.00 \$_2000.00	\$ 3297,000,00 \$ 3160,000,00 \$ 5.175,000,00
56. 4 x 3 tox culvant, verbalanie of baschlijk 4 x 3 meriforced concrete box culvant, connections, trench meriforced concrete box culvant, connections, trench and appartmentar required for contractions, pin place, complete. 7 x 4 to tox culvant, verbalanie of contractions, pin place, complete. 8 meriforced concrete box culvant, connections, servant and appartmentarie required for contractions, pin place, complete. 8 meriforced concrete box culvant, connections, servant and appartmentaries required for contractions, pin place, complete. 8 meritories of the contractions in place, complete. 95 at "web transcriptions of or thesis, boths, westering, and all their fallers required for construction, in place, complete. 60. Desiry lest dimonstruct, inclusion of steady; boths, westering, and all the fallers required for construction, in place, complete. 61. Temporary desirings place, including of place, complete. 62. 63. Temporary desirings place, including of cellulations, and apparentmentaries or disputementaries to connection the texture controlled or contractions, and designment tools, blace, materials, and apparentmentaries to connect the temporary desiring places and apparentments to connect the temporary desiring places.	785 1,580 2,300	Linear Foot Linear Foot	\$_5000.00 \$_2500.00 \$_2500.00	\$ 1750,000,00 \$ 1905,000,00 \$ 1960,000,00 \$ 5,750,000,00	785 1,580 2,300	Linear Foot Linear Foot	\$ <u>4.219.00</u> \$ <u>2.196.00</u> \$ <u>2.529.00</u>	\$ <u>3.311.915.00</u> \$ <u>3.469.680.00</u> \$ <u>5.816.700.00</u>	785 1,580 2,300	Linear Foot Linear Foot	\$3994.38 \$1651.71 \$1625.93	\$3,136,588,30 \$2,609,701,80 \$3,739,639,00	785 1,580 2,300	Linear Foot Linear Foot	\$ <u>6.835.00</u> \$ <u>3.085.00</u> \$ <u>3.335.00</u>	\$ <u>5.365.475.00</u> \$ <u>4.874.300.00</u> \$ <u>7.670.500.00</u>	785 1,580 2,300	Linear Foot Linear Foot	\$	\$ <u>4.317.500.00</u> \$ <u>3.096.800.00</u> \$ <u>4.416.000.00</u>	785 1,580 2,300	Linear Foot Linear Foot	\$ <u>1.800.00</u> \$ <u>1.800.00</u> \$ <u>1.400.00</u>	\$	785 1,580 2,300	Linear Foot Linear Foot	\$ <u>4200.00</u> \$ <u>2000.00</u> \$ <u>2250.00</u>	\$ 3297,000,00 \$ 3160,000,00 \$ 5.175,000,00
55. 4 x 3 box colvent, includes of backfill, 4 x 3 minutes and improved the collection of backfill, 4 x 3 minutes and improved the collection of backfill, and apparent collection, and apparent collections. 50. 42 minutes and apparent collections are apparent collections and apparent collections.	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$_500.00_ \$_2500.00_ \$_2500.00_ \$_3000.00_	\$1750,000,00 \$365,000,00 \$5750,000,00 \$5750,000,00	1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>4.219.00</u> \$ <u>2.196.00</u> \$ <u>2.529.00</u> \$ <u>19.824.00</u>	\$ 331191500 \$ 346968000 \$ 581670000 \$ 79,29600	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ 3994.32 \$ 1,651.71 \$ 1,625.93 \$ 48,471.31	\$3135,588,30 \$2609,701,80 \$3739,639,00 \$193,885,24	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>6.835.00</u> \$ <u>3.085.00</u> \$ <u>3.335.00</u> \$ <u>55.000.00</u>	\$5365,475,00 \$4874,300,00 \$7870,500,00 \$220,000,00	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>5500.00</u> \$ <u>1,960.00</u> \$ <u>1,920.00</u> \$ <u>29,000.00</u>	\$ <u>4.417.500.00</u> \$ <u>3.096.600.00</u> \$ <u>4.416.000.00</u> \$ <u>116.000.00</u>	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>1.800.00</u> \$ <u>1.800.00</u> \$ <u>1.400.00</u> \$ <u>20.000.00</u>	\$1413,000,00 \$2064,000,00 \$3220,000,00 \$80,000,00	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$_4200.00_ \$_2000.00_ \$_2250.00_ \$_30000.00_	\$3297,000,00 \$3190,000,00 \$5175,000,00 \$120,000,00
56. 4 x 3 Tox colvent virtualine of backfill, 4 x 3 membraned conceals box outher, connections, terror membraned conceals box outher, connections, terror management of the control of t	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$_500.00_ \$_2500.00_ \$_2500.00_ \$_3000.00_	\$1750,000,00 \$365,000,00 \$5750,000,00 \$5750,000,00	1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>4.219.00</u> \$ <u>2.196.00</u> \$ <u>2.529.00</u> \$ <u>19.824.00</u>	\$ 331191500 \$ 346968000 \$ 581670000 \$ 79,29600	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ 3994.32 \$ 1,651.71 \$ 1,625.93 \$ 48,471.31	\$3135,588,30 \$2609,701,80 \$3739,639,00 \$193,885,24	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>6.835.00</u> \$ <u>3.085.00</u> \$ <u>3.335.00</u> \$ <u>55.000.00</u>	\$5365,475,00 \$4874,300,00 \$7870,500,00 \$220,000,00	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>5500.00</u> \$ <u>1,960.00</u> \$ <u>1,920.00</u> \$ <u>29,000.00</u>	\$ <u>4.417.500.00</u> \$ <u>3.096.600.00</u> \$ <u>4.416.000.00</u> \$ <u>116.000.00</u>	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>1.800.00</u> \$ <u>1.800.00</u> \$ <u>1.400.00</u> \$ <u>20.000.00</u>	\$1413,000,00 \$2064,000,00 \$3220,000,00 \$80,000,00	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$_4200.00_ \$_2000.00_ \$_2250.00_ \$_30000.00_	\$3297,000,00 \$3190,000,00 \$5175,000,00 \$120,000,00
55. 4 x 3 box colvent, includes of backfill, 4 x 3 minutes and improved the collection of backfill, 4 x 3 minutes and improved the collection of backfill, and apparent collection, and apparent collections. 50. 42 minutes and apparent collections are apparent collections and apparent collections.	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$_500.00_ \$_2500.00_ \$_2500.00_ \$_3000.00_	\$1750,000,00 \$365,000,00 \$5750,000,00 \$5750,000,00	1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>4.219.00</u> \$ <u>2.196.00</u> \$ <u>2.529.00</u> \$ <u>19.824.00</u>	\$ 331191500 \$ 346968000 \$ 581670000 \$ 79,29600	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ 3994.32 \$ 1,651.71 \$ 1,625.93 \$ 48,471.31	\$3135,588,30 \$2609,701,80 \$3739,639,00 \$193,885,24	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>6.835.00</u> \$ <u>3.085.00</u> \$ <u>3.335.00</u> \$ <u>55.000.00</u>	\$5365,475,00 \$4874,300,00 \$7870,500,00 \$220,000,00	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>5500.00</u> \$ <u>1,960.00</u> \$ <u>1,920.00</u> \$ <u>29,000.00</u>	\$ <u>4.417.500.00</u> \$ <u>3.096.600.00</u> \$ <u>4.416.000.00</u> \$ <u>116.000.00</u>	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$ <u>1.800.00</u> \$ <u>1.800.00</u> \$ <u>1.400.00</u> \$ <u>20.000.00</u>	\$1413,000,00 \$2064,000,00 \$3220,000,00 \$80,000,00	785 1,580 2,300	Linear Foot Linear Foot Linear Foot Each	\$_4200.00_ \$_2000.00_ \$_2250.00_ \$_30000.00_	\$3297,000,00 \$3190,000,00 \$5175,000,00 \$120,000,00

 New underground HECO, HT and OTWC infrastructure; street lighting modification; and traffic signal 						
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| infrastructure; street lighting modification; and traffic signal
modifications within the Sand Island Access Road right-of-
way; and all appurtment materials and work; required to
construct the electrical system, in place, complete. | | | | | | |
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| construct the electrical system, in place, complete. | LS. | Lump Sum | L.S. | SS0.000.00 | L.S. | Lump Sum | L.S.
 | \$ 302,700,00 | L.S. | Lump Sum | LS.
 | \$ 245.245.51 | L.S. | Lump Sum | LS. | \$ 55,000.00
 | LS. | Lump Sum | L.S. | \$50.000.00 | L.S.
 | Lump Sum | LS. | \$ 50,000.00 | LS. | Lump Sum | L.S. | \$ <u>275.000.00</u>
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| | LO. | Lunp oun | 2.0. | | 2.0. | Lump Gum | L.O.
 | | L.U. | Lump Gum | 2.0.
 | | 2.0. | Lump Gum | L.U. |
 | E.U. | Lump Gum | 2.0. | | L.O.
 | Lunp Juni | L.U. | | L.U. | Lump Gum | L.U. |
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67. HECo service contribution charges, to be paid for from a force account of the exact amount as quoted by the utility company. The amounts indicated on the Proposal Schedule are approximate only. No Contractor's mark-up will be allowed for this frem.						
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company. The amounts indicated on the Proposal Schedule are approximate only. No Contractor's mark-up						
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| will be allowed for this item. | Allow. | Allowance | Allow. | \$4,500,000.00 | Allow. | Allowence | Allow.
 | \$_4,500,000.00 | Allow. | Allowance | Allow.
 | \$4,500,000.00 | Allow. | Allowance | Allow. | \$_4,500,000.00
 | Allow. | Allowance | Allow. | \$4,500,000.00 | Allow.
 | Allowance | Allow. | \$4,500,000.00 | Allow. | Allowance | Allow. | \$4,500,000.00
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68. Hawaiian Telcom service contribution charges, to						
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be paid for from a force account of the exact amount as quoted by the utility company. The amounts indicated on the Proposal Schedule are approximate only. No Contractor's mark-up will be allowed for this item.						
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indicated on the Proposal Schedule are approximate only. No Contractor's mark-up will be allowed for this item.						
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 | S250,000,00 | Allow. | Allowance | Allow.
 | \$250.000.00 | Allow. | Allowance | Allow. | \$ 250,000.00
 | Allow. | Allowance | Allow. | \$250.000.00 | Allow.
 | Allowance | Allow. | \$250.000.00 | Allow. | Allowance | Allow. | \$250.000.00
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69. Removed from Scope						
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70. Removed from Scope						
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71 Removed from Scope					<u> </u>	
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71. Tremoted non ocope						
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| Removal and disposal of asbestos cement piping, conduit,
and waste. | Allow. | Allowance | Allow. | \$ 790,000,00 | Allow. | Allowance | Allow.
 | \$ 790,000.00 | Allow. | Allowance | Allow.
 | \$ 790,000.00 | Allow. | Allowance | Allow. | \$ 790,000.00
 | Allow. | Allowance | Allow. | \$ 790,000.00 | Allow.
 | Allowance | Allow. | \$ 790,000,00 | Allow. | Allowance | Allow. | \$ 790,000,00
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 |
| Removal and disposal asbestos-containing materials in
buildings to be demolished, and waste. | LS. | Lump Sum | L.S. | s100,000,00 | L.S. | Lump Sum | L.S.
 | \$ 93,200.00 | LS. | Lump Sum | L.S.
 | s 93.475.82 | L.S. | Lump Sum | LS. | \$ 71,500.00
 | LS. | Lump Sum | L.S. | \$ 65,100,00 | L.S.
 | Lump Sum | LS. | \$ 100,000.00 | LS. | Lump Sum | L.S. | \$100.000.00
 |
74 Tanning desiring cleaning testing and deposed of fuel						
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 Tapping, draining, cleaning, testing, and disposal of fuel pipelines, inclusive of disposal characterization analyses for residual fuel, disposal of residual fuel, disposal 						
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characterization analyses for sludge, rinsate, and solids,						
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characterization analyses for studge, finsate, and solids, disposal of studge, finsate, and solids generated during cleaning of the underground pleatines, all equipment, tools, materials, labor, and appurtenances required to complete						
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| materials, labor, and appurtenances required to complete
the work. | Allow. | Allowance | Allow. | | | | Allow.
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 | | Allowance | Allow. | |
 | Allowance | Allow. | | | | Allow. |
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| | Allow. | Allowance | Allow. | S 787,500.00 | Allow. | Allowance | Allow.
 | \$ 787,500.00 | Allow. | Allowance | Allow.
 | \$ 787,500.00 | Allow. | Allowance | Allow. | \$ 787,500.00
 | Allow. | Allowance | Allow. | \$ 787,500.00 | Allow.
 | Atowance | Allow. | \$ 787,500.00 | Allow. | Allowance | Allow. | \$ 787,500.00
 |
 Tapping, draining, handling, and removal of existing aboveground storage tank (AST) and associated piping, including concrete slab, inclusive of 						
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including concrete slab, inclusive of mobilization/demobilization decoral						
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rhobitzation/demobilization, disposal characterization analyses for residual fuel, disposal of residual fuel, disposal characterization analyses						
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of residual fuel, disposal characterization analyses for sludge, rinsate, and solids, disposal of sludge, rinsate, and solids generated, and preparation of closure report.						
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| and solids generated, and preparation of closure report. | LS | Lump Sum | L.S. | S 120,000.00 | L.S | Lump Sum | L.S.
 | S 71.100.00 | LS | Lump Sum | L.S.
 | S 324.784.59 | LS | Lump Sum | LS. | \$ <u>275.000.00</u>
 | LS | Lump Sum | L.S. | \$ 96,000.00 | LS
 | Lump Sum | L.S. | \$ 25,000.00 | LS | Lump Sum | L.S. | \$ <u>275.000.00</u>
 |
| | Lo | Lump oum | L.o. | 3 | Lo | Lump Sum | L.o.
 | a | Lo | Lump Sum | L.o.
 | 5 | Lo | Lump Sum | L.S. | 3 275,000,00
 | Lo | Lump our | L.o. | 3 20,000,00 | Lo
 | Lump Sum | Lo. | 325,000,00 | Lo | Lump Sum | L.o. | 3 2/300000
 |
 Excavation, tapping, draining, and removal of existing underground storage tanks (USTs) and associated 						
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76. Excavation, tapping, draining, and removal of existing undergound storage tanks (USTs) and associated piping, inclusive or indicitation/demolitzation, disposal characterization analyses for residual fluid, disposal of residual fluid, disposal characterization analyses						
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of residual fuel, disposal characterization analyses						
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for sludge, rinsate, and solids, disposal of sludge, rinsate, and solids generated, and preparation of closure report.						
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| | LS. | Lump Sum | L.S. | \$ 100,000.00 | L.S. | Lump Sum | L.S.
 | \$ 80,800.00 | LS. | Lump Sum | LS.
 | \$ 294,967.43 | L.S. | Lump Sum | LS. | \$ 200,000.00
 | L.S. | Lump Sum | L.S. | \$ 82,000.00 | LS.
 | Lump Sum | LS. | \$ 100,000.00 | L.S. | Lump Sum | L.S. | \$ 275,000.00
 |
| 77. Lead-containing Paint Control Measures | | Allowance | | | | Allowance |
 | \$ 750,000.00 | | |
 | \$ 750,000,00 | | Allowance | | \$ 750,000.00
 | | Allowance | | S 750,000,00 |
 | | | \$ 750,000.00 | | | | \$ 750,000,00
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| Ambient air monitoring Disposal of hazardous materials; that are unacceptable to
State landfill facilities, encountered within HC 10502 limits | LS. | Lumo Sum | L.S. | \$ 9,000.00 | L.S. | Lump Sum | L.S.
 | \$ 440,900.00 | L.S. | Lump Sum | LS.
 | S 26.513.03 | L.S. | Lump Sum | LS. | \$ 60,000.00
 | L.S. | Lump Sum | L.S. | \$288.000.00 | L.S.
 | Lump Sum | LS. | S 100,000.00 | LS. | Lump Sum | L.S. | \$ 80,000.00
 |
| State landfill facilities, encountered within HC 10502 limits | | Allowance | Allow. | | Allow. | Allowance | Allow.
 | \$ 2,000,000,00 | Allow. | Allowance | Allow.
 | \$ | Allow. | Allowance | Allow. | \$ 2,000,000,00
 | Allow. | A | Allow. | \$ 2,000,000,00 | Allow.
 | Allowance | Allow. | \$ 2,000,000,00 | Allow. | Allowance | Allow. | \$ 2,000,000,00
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 | Alomato | Augus. | a | | Policination | Alon. | 2.000.000.00
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ENVIRONMENTAL CONCERNS	Allow.	Samue		5,488,142.02		
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ENVIRONMENTAL CONCERNS	Allow.	Sacrates		5,488,142.02		
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ENVIRONMENTAL CONCERNS	Allow.			5,488,142.02		
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| | | | \$ 110.00 | | 3 950 | Linear Foot | \$ 122.00
 | | 3,950 | Linear Foot 3 |
 | | 3 950 | Linear Font | \$ 115 M | \$ 454250.00
 | 3950 | Linear Foot | \$ 68.00 | \$ 258 500 00 | 3950
 | Linear Foot S | 80.00 | \$ 316,000,00 | 3950 | Linear Foot | \$ 100.00 | \$ 395,000,00
 |
| 79. TWIC chain link fence, in place, complete. | 3.950 | Linear Foot | S 110.00 | \$ 434,500,00 | 3,950 | Linear Foot | \$ <u>122.00</u>
 | \$ 481,900,00 | 3,950 | | \$ <u>90.07</u>
 | \$ <u>355,776.50</u> | 3,950 | Linear Foot | S_115.00_ | \$ <u>454.250.00</u>
 | 3,950 | | s_68.00 | | 3,950
 | | 80.00 | | 3,950 | Linear Foot | | \$ 395,000,00
 |
| 79. TWIC chain link fence, in place, complete. 80. Low security chain link fence, in place, complete. | | | \$ 110.00
\$ 85.00 | | 3,960
2,300 | Linear Foot | \$ <u>122.00</u>
\$ <u>122.00</u>
 | | 3,950
2,300 | Linear Foot 3 Linear Foot 5 |
 | | 3,950 | Linear Foot | \$ 115.00
\$ 76.00 | \$ 454.250.00
\$ 174.800.00
 | 3,950 | Linear Foot | \$ <u>68.00</u>
\$ <u>65.00</u> | \$268,600,00
\$149,500,00 | 3,960
2,300
 | | 80.00
70.00 | \$316,000,00
\$161,000,00 | 3,950 | Linear Foot | |
 |
| 79. TWVC chain link fence, in place, complete. 80. Low security dhain link fence, in place, complete. 81. 20" while the security dhain link fence, in place, complete. | 3.950 | Linear Foot | \$ 85.00 | \$ 434.500.00
\$ 196.500.00 | | Linear Foot | \$ <u>122.00</u>
 | \$ 481 900 00
\$ 280 600 00 | | Linear Foot 5 | \$
 | \$ <u>355.776.50</u>
\$ <u>194.741.00</u> | | Linear Foot | \$ <u>76.00</u> | \$ 174,800.00
 | | Linear Foot | \$ 65.00 | \$149.500.00 |
 | Linear Foot S_ | 70.00 | | | Linear Foot | \$ 90.00 | \$
 |
| 79. TWIC chain lief ferce, in place, complete. 80. Live security chain lief ferce, in place, complete. 81. 28 wide but security chain link double swing gate, in place, complete. | 3.950 | Linear Foot | | \$ 434,500,00 | | |
 | | | | \$ <u>90.07</u>
 | \$ <u>355,776.50</u> | | | |
 | | | | |
 | Linear Foot S_ | | | | | | \$207.000.00
\$7.500.00
 |
| 79. TWVC chain link fence, in place, complete. 80. Low security dhain link fence, in place, complete. 81. 20" while the security dhain link fence, in place, complete. | 3.950 | Linear Foot | \$ 85.00 | \$ 434.500.00
\$ 196.500.00 | | Linear Foot | \$ <u>122.00</u>
 | \$ 481 900 00
\$ 280 600 00 | | Linear Foot 5 | \$
 | \$ <u>355.776.50</u>
\$ <u>194.741.00</u> | | Linear Foot | \$ <u>76.00</u> | \$ 174,800.00
 | | Linear Foot | \$ 65.00 | \$149.500.00 |
 | Linear Foot S _ | 70.00 | | | Linear Foot | \$ 90.00 | \$
 |
| 79. TWIC chain list fance, in place, complete. 80. Low security draw fire fixees, in place, complete. 11. Siff selbs to security draw fire fixee, in place, complete. 12. All selbs to security draw fire fixee, in place, complete. 22. All selbs TWIC Chain list double samp galls, in place, complete. 33. All selbs TWIC Chain list double samp galls, in place, complete. | 3.950 | Linear Foot Linear Foot Each Each | \$ <u>85.00</u>
\$ <u>7.000.00</u>
\$ <u>7,500.00</u> | \$ 434,500,00
\$ 196,500,00
\$ 7,000,00
\$ 7,500,00 | | Linear Foot Each Each | \$122.00
\$8,700.00
\$7,300.00
 | \$_481,500,00
\$_280,600,00
\$_8,700,00 | | Each 5 | \$ 90.07
\$ 84.67
\$ 7.117.44
\$ 7.142.09
 | \$ 355.776.50
\$ 194.741.00
\$ 7.117.44
\$ 7,142.09 | | Linear Foot Each Each | \$ 76.00
\$ 9.510.00
\$ 9,510.00 | \$ 174,800.00
\$ 9,510.00
\$ 9,510.00
 | | Each Each | \$ 65.00
\$ 7.400.00
\$ 7.400.00 | \$ 149,500.00
\$ 7,400.00
\$ 7,400.00 |
 | Linear Foot S_
Each S_
Each S_ | 70.00
20.000.00
16,000.00 | \$ 161,000,00
\$ 20,000,00
\$ 16,000,00 | | Linear Foot Each Each | \$ <u>90.00</u>
\$ <u>7.500.00</u>
\$ <u>7.500.00</u> | \$ 207.000.00
\$ 7.500.00
\$ 7,500.00
 |
| TWC chain list ferce, in place, complete. 18. Low security chain list ferce, in place, complete. 18. 27 vide to we scorely than list double swing gets, in place, complete. 18. 24 vides TWC chain list double swing gets, in place, complete. 18. 37 vides TWC chain list double swing gets, in place, complete. | 3.950 | Linear Foot Linear Foot Each | \$ 85.00
\$ 7.000.00 | \$ 434,500,00
\$ 196,500,00
\$ 7,000,00 | | Linear Foot
Each | \$ <u>122.00</u>
\$ <u>8.700.00</u>
 | \$ 481 900 00
\$ 280 600 00
\$ 8,700 00 | | Linear Foot S | \$ 90.07
\$ 84.67
\$ 7.117.44
 | \$ <u>365.776.60</u>
\$ <u>194.741.00</u>
\$ <u>7.117.44</u> | | Linear Foot
Each | \$ <u>76.00</u>
\$ <u>9.510.00</u> | \$ 174,800.00
\$ 9,510.00
 | | Linear Foot
Each | \$ <u>65.00</u>
\$ <u>7.400.00</u> | \$ 149,500.00
\$ 7,400.00 |
 | Linear Foot S_
Each S_
Each S_ | 70.00 | \$ 161,000,00
\$ 20,000,00 | | Linear Foot
Each | \$ <u>90.00</u>
\$ <u>7.500.00</u> | \$207.000.00
\$7.500.00
 |
| 79. TWIC chan let ferce, in place, complete. 80. Tow security draw let force, in place, complete. 91. 28' feet let executly draw let force, in place, complete. 92. 28' feet let executly draw let foodele sering gast, in place, complete. 93. 28' feet STWIC Chan let foodele sering gast, in place, complete. 93. 28' feet STWIC Chan let foodele sering gast, in place, complete. 94. 28' feet STWIC Chan let foodele sering gast, in place, somplete. 95. 28' feet STWIC Chan let foodele sering gast, in place, somplete. | 3.950 | Linear Foot Linear Foot Each Each | \$85.00
\$7.000.00
\$7.500.00
\$7.600.00 | \$ 434 500.00
\$ 196 500.00
\$ 7,000.00
\$ 7,600.00 | | Each Each Each | \$122.00
\$8.700.00
\$7,300.00
\$7,300.00
 | \$ 481 900 00
\$ 780 500 00
\$ 8,700,00
\$ 7,300,00 | | Each S Each S Each S | \$ 90.07
\$ 84.67
\$ 7.117.44
\$ 7.142.09
\$
8.319.05 | \$ 366.776.60
\$ 194.741.00
\$ 7.117.44
\$ 7,142.09
\$ 8,319.08 | | Each Each Each | \$ 76.00
\$ 9.510.00
\$ 9,510.00
\$ 9,510.00 | \$ 174,800.00
\$ 9,510.00
\$ 9,510.00
\$ 9,510.00
 | | Each Each Each | \$ 65.00
\$ 7.400.00
\$ 7,400.00
\$ 7,400.00 | \$ 149,500.00
\$ 7,400.00
\$ 7,400.00
\$ 7,400.00 |
 | Each S_Each S_Each S_ | 70.00
20.000.00
16,000.00 | \$ 161,000,00
\$ 20,000,00
\$ 16,000,00
\$ 18,000,00 | | Each Each | \$ | \$ 207.000.00
\$ 7.500.00
\$ 7,500.00
\$ 7,500.00
 |
| TWC chain list ferce, in place, complete. 18. Ler security chain list ferce, in place, complete. 18. 27 vide list security chain list double sering gate, in place, complete. 18. 27 vides TWC chain list double sering gate, in place, complete. 18. 27 vides TWC chain list double sering gate, in place, complete. 18. 27 vides TWC chain list double sering gate, in place, complete. | 3.950 | Linear Foot Linear Foot Each Each | \$ <u>85.00</u>
\$ <u>7.000.00</u>
\$ <u>7,500.00</u> | \$ 434,500,00
\$ 196,500,00
\$ 7,000,00
\$ 7,500,00 | | Linear Foot Each Each | \$122.00
\$8,700.00
\$7,300.00
 | \$_481,500,00
\$_280,600,00
\$_8,700,00 | | Each 5 | \$ 90.07
\$ 84.67
\$ 7.117.44
\$ 7.142.09
 | \$ 355.776.50
\$ 194.741.00
\$ 7.117.44
\$ 7,142.09 | | Linear Foot Each Each | \$ 76.00
\$ 9.510.00
\$ 9,510.00 | \$ 174,800.00
\$ 9,510.00
\$ 9,510.00
 | | Each Each | \$ 65.00
\$ 7.400.00
\$ 7.400.00 | \$ 149,500.00
\$ 7,400.00
\$ 7,400.00 |
 | Each S_Each S_Each S_ | 70.00
20.000.00
16,000.00 | \$ 161,000,00
\$ 20,000,00
\$ 16,000,00 | | Linear Foot Each Each | \$ <u>90.00</u>
\$ <u>7.500.00</u>
\$ <u>7.500.00</u> | \$ 207.000.00
\$ 7.500.00
\$ 7,500.00
 |
| 79. TWIC chan let ferce, in place, complete. 80. Tow security draw let force, in place, complete. 91. 28' feet let executly draw let force, in place, complete. 92. 28' feet let executly draw let foodele sering gast, in place, complete. 93. 28' feet STWIC Chan let foodele sering gast, in place, complete. 93. 28' feet STWIC Chan let foodele sering gast, in place, complete. 94. 28' feet STWIC Chan let foodele sering gast, in place, somplete. 95. 28' feet STWIC Chan let foodele sering gast, in place, somplete. | 3.950 | Linear Foot Linear Foot Each Each | \$85.00
\$7.000.00
\$7.500.00
\$7.600.00 | \$ 434 500.00
\$ 196 500.00
\$ 7,000.00
\$ 7,600.00 | | Each Each Each | \$122.00
\$8.700.00
\$7,300.00
\$7,300.00
 | \$ 481 900 00
\$ 780 500 00
\$ 8,700,00
\$ 7,300,00 | | Each S Each S Each S | \$ 90.07
\$ 84.67
\$ 7.117.44
\$ 7.142.09
\$
8.319.05 | \$ 366.776.60
\$ 194.741.00
\$ 7.117.44
\$ 7,142.09
\$ 8,319.08 | | Each Each Each | \$ 76.00
\$ 9.510.00
\$ 9,510.00
\$ 9,510.00 | \$ 174,800.00
\$ 9,510.00
\$ 9,510.00
\$ 9,510.00
 | | Each Each Each | \$ 65.00
\$ 7.400.00
\$ 7,400.00
\$ 7,400.00 | \$ 149,500.00
\$ 7,400.00
\$ 7,400.00
\$ 7,400.00 |
 | Each S | 70.00
20.000.00
16,000.00 | \$ 161,000,00
\$ 20,000,00
\$ 16,000,00
\$ 18,000,00 | | Each Each | \$ | \$ 207.000.00
\$ 7.500.00
\$ 7,500.00
\$ 7,500.00
 |
| TWC chain bit ferce, in place, complete. 18. Les securit, d'abit his force, in place, complete. 18. Les securit, d'abit his force, in place, complete. 18. Les viels bits security chain his double sergig gate, in place, complete. 18. Les viels YWC chain his double sergig gate, in place, complete. 18. Les viels YWC chain his double sergig gate, in place, complete. 18. Les viels YWC chain his double sergig gate, in place, complete. 18. Les viels YWC chain his double sergig gate, in place, complete. 18. Les viels YWC chain his double sergig gate, in place, complete. | 3.950 | Linear Foot Linear Foot Each Each Each | \$ 85.00
\$ 7.000.00
\$ 7.500.00
\$ 7.600.00
\$ 45,000.00 | \$ 434.500.00
\$ 196.500.00
\$ 7,000.00
\$ 7,600.00
\$ 46,000.00 | | Each Each Each Each | \$ 122.00
\$ 8.700.00
\$ 7,300.00
\$ 7,300.00
\$ 10,900.00
\$ 3,700.00
 | \$_481,900,00
\$_280,600,00
\$_8,700,00
\$_7,300,00
\$_7,300,00
\$_10,900,00 | | Each 1 Each 1 Each 1 Each 1 Each 1 Each 1 | \$ 9007
\$ 8467
\$ 7.117.64
\$ 7,142.09
\$
8.319.08
\$ 10,414.26
\$ 3.062.65 | \$ 355,776.50
\$ 194,741.00
\$ 7,117.44
\$ 7,142.09
\$ 8,319.08
\$ 10,414.26 | | Each Each Each Each Each | \$ <u>75.00</u> \$ <u>9.510.00</u> \$ <u>9.510.00</u> \$ <u>9.510.00</u> \$ <u>9.510.00</u> \$ <u>19.100.00</u> \$ <u>4.750.00</u> | \$ 174.800.00
\$ 9,510.00
\$ 9,510.00
\$ 9,510.00
\$ 19,100.00
 | | Each Each Each Each | \$ | \$ |
 | Each S | 70.00
20.000.00
16,000.00
18,000.00
30,000.00 | \$ 161,000,00
\$ 20,000,00
\$ 16,000,00
\$ 18,000,00 | | Each Each Each Each | \$ | \$
 |
| 79. TWIC drain list ferous, in place, complete. 80. Lew security drain link ferous, in place, complete. 81. 27 wide tw security drain link floodie puring gasts, in place, complete. 82. 24 web TWIC drain link double suring gasts, in place, complete. 83. 26 web TWIC drain link double suring gasts, in place, complete. 84. 27 web TWIC drain link double suring gasts, in place, complete. 85. 27 web TWIC drain link double suring gasts, in place, complete. 86. 27 web TWIC drain link double suring gasts, in place, complete. 86. 27 with two security drain link double suring gasts, in place, complete. | 3.950 | Linear Foot Linear Foot Each Each Each | \$ 85.00
\$ 7.000.00
\$ 7.500.00
\$ 7.600.00
\$ 45,000.00 | \$ 434.500.00
\$ 196.500.00
\$ 7,000.00
\$ 7,600.00
\$ 46,000.00 | | Each Each Each Each | \$ 122.00
\$ 8.700.00
\$ 7,300.00
\$ 7,300.00
\$ 10,900.00
 | \$_481,900,00
\$_280,600,00
\$_8,700,00
\$_7,300,00
\$_7,300,00
\$_10,900,00 | | Each 9 Each 9 Each 9 Each 9 Each 9 | \$ 90.07
\$ 84.67
\$ 7.117.44
\$ 7.142.09
\$
8.319.08 | \$ 355,776.50
\$ 194,741.00
\$ 7,117.44
\$ 7,142.09
\$ 8,319.08
\$ 10,414.26 | | Each Each Each Each | \$ 76.00
\$ 9.510.00
\$ 9.510.00
\$ 9.510.00
\$ 19,100.00 | \$ 174.800.00
\$ 9,510.00
\$ 9,510.00
\$ 9,510.00
\$ 19,100.00
 | | Each Each Each Each | \$ 65.00
\$ 7.400.00
\$ 7.400.00
\$ 7.400.00
\$ 10,750.00 | \$ |
 | Each S | 70.00
20.000.00
16,000.00
18,000.00 | \$ 161,000,00
\$ 20,000,00
\$ 16,000,00
\$ 18,000,00 | | Each Each Each Each | \$ | \$
 |
| TWC chain bit ferce, in place, complete. 18. Les securit, d'abit his force, in place, complete. 18. Les securit, d'abit his force, in place, complete. 18. Les viels bits security chain his double sergig gate, in place, complete. 18. Les viels YWC chain his double sergig gate, in place, complete. 18. Les viels YWC chain his double sergig gate, in place, complete. 18. Les viels YWC chain his double sergig gate, in place, complete. 18. Les viels YWC chain his double sergig gate, in place, complete. 18. Les viels YWC chain his double sergig gate, in place, complete. | 3.950 | Linear Foot Linear Foot Each Each Each Each | \$ | \$ 434 500.00
\$ 196 500.00
\$ 7,000.00
\$ 7,600.00
\$ 7,600.00
\$ 45,000.00 | | Each Each Each Each Each | \$ 122.00
\$ 8.700.00
\$ 7,300.00
\$ 7,300.00
\$ 10,900.00
\$ 3,700.00
 | 5 481 900 00
5 280 600 00
5 8 700 00
5 7,300 00
5 7,300 00
5 7,300 00
5 3,700 00
5 3,700 00 | | Each 1 Each 1 Each 1 Each 1 Each 1 Each 1 | \$ 9007
\$ 8467
\$ 7.117.64
\$ 7,142.09
\$
8.319.08
\$ 10,414.26
\$ 3.062.65 | \$ 355,776,50
\$ 194,741,00
\$ 7,117,44
\$ 7,142,09
\$ 8,219,08
\$ 10,414,26
\$ 3,002,65 | | Each Each Each Each Each | \$ <u>75.00</u> \$ <u>9.510.00</u> \$ <u>9.510.00</u> \$ <u>9.510.00</u> \$ <u>9.510.00</u> \$ <u>19.100.00</u> \$ <u>4.750.00</u> | \$ 9510.00
\$ 9510.00
\$ 9510.00
\$ 9510.00
\$ 19,100.00
\$ 4,750.00
 | | Each Each Each Each Each | \$ | \$ 140,500,00
\$ 7,400,00
\$ 7,400,00
\$ 10,750,00
\$ 3,500,00 |
 | Each S | 70.00
20.000.00
16,000.00
18,000.00
30,000.00 | \$ 161,000,00
\$ 20,000,00
\$ 16,000,00
\$ 18,000,00 | | Each Each Each Each Each | \$ | \$
 |
| Typ. TWIC chain list force, in place, complete. 10. Les securits d'abit les foces in siese, complete. 11. Zer les securits d'abit les foces in siese, complete. 12. Les securits d'abit les foces in siese, complete. 12. Les les YiVIC d'aun les d'adude sering gate, in place, complete. 13. Zer les YIVIC d'aun les d'adude sering gate, in place, complete. 14. Au viels YIVIC d'aun les d'adude sering gate, in place, complete. 15. Les les securits d'aun les d'adude sering gate, in place, complete. 16. Zer les les securits d'aun les d'adude sering gate, in place, complete. 16. Zer les les securits d'aun les d'adude sering gate, in place, complete. 16. Zer les les securits d'aun les d'adudes sering gate, in place, complete. 16. Zer les les securits d'aun les d'adudes sering gate, in place, complete. | 3.950
2.300
1
1
1
1
1
2 | Linear Foot Linear Foot Each Each Each Each Each Each | \$ 85.00
\$ 7.000.00
\$ 7.500.00
\$ 7.500.00
\$ 45.000.00
\$ 4000.00
\$ 8.000.00 | \$ 434 500 00
\$ 199 500 00
\$ 7,000 00
\$ 7,000 00
\$ 45,000 00
\$ 45,000 00
\$ 45,000 00
\$ 9,000 00 | 2,300
1
1
1
1
1
1 | Each Each Each Each Each Each | \$ 12200
\$ 8.700.00
\$ 7,300.00
\$ 10,900.00
\$ 3,700.00
\$ 5,100.00
\$ 8,700.00
 | 5 40 900 00
5 200 00 00
5 2700 00
5 7,000 00
5 7,000 00
5 10,000 00
5 10,000 00
5 10,000 00
5 10,000 00
5 8 700 00 | 2,300 1 1 1 1 1 1 1 1 | Each 1 | \$ 90.07
\$ 94.67
\$ 7.117.64
\$ 7.142.09
\$ 8.319.08
\$ 10.414.26
\$ 3.062.65
\$
7.641.23
\$ 9.144.83 | \$ 365,778.50
\$ 198,741.00
\$ 7,142.00
\$ 8,319.08
\$ 10,414.28
\$ 3,062.65
\$ 15,262.46
\$ 9,144.81 | | Each Each Each Each Each Each Each | \$ <u>9.510.00</u> \$ <u>9.510.00</u> \$ <u>9.510.00</u> \$ <u>9.510.00</u> \$ <u>19.100.00</u> \$ <u>19.100.00</u> \$ <u>19.100.00</u> \$ 19.100.00 | \$ 9510.00
\$ 9510.00
\$ 9510.00
\$ 9,510.00
\$ 19,100.00
\$ 4,750.00
\$ 38,200.00
 | 2,300 1 1 1 1 1 1 | Each Each Each Each Each Each | \$ <u>65.00</u> \$ <u>7.400.00</u> \$ <u>7.400.00</u> \$ <u>7.400.00</u> \$ <u>10.750.00</u> \$ <u>3.500.00</u> \$ <u>8 000.00</u> | \$ | 2,300 1 1 1 1 1 1 1
 | Linear Foot S _ Each S _ | 70.00
20.000.00
16.000.00
18.000.00
30.000.00
15.000.00
20.000.00 | \$ 161,000,00
\$ 20,000,00
\$ 16,000,00
\$ 18,000,00 | 2,300 1 1 1 1 1 1 1 | Each Each Each Each Each Each Each | \$ | \$
 |
| 79. TWIC chain list fance, in place, complete. 50. Live security drain list fance, in place, complete. 51. All self-security drain list fance, in place, complete. 52. All self-self-security drain list dicubel swring geste, in place, complete. 52. All self-self-yritic Chain list dicubel swring geste, in place, complete. 53. All self-self-yritic Chain list dicubel swring geste, in place, complete. 54. All self-self-yritic Chain list dicubel swring geste, in place, complete. 55. To's wide to security chain list dicubel swring geste, in place, complete. 56. 32 wide to security chain list dicubel swring geste, in place, complete. 57. Wide to security chain list dicubel swring geste, in place, complete. | 3.950
2.300
1
1
1
1
1
2 | Linear Foot Linear Foot Each Each Each Each Each Each Each Each | \$ 85.00
\$ 7.000.00
\$ 7.500.00
\$ 7.600.00
\$ 45.000.00
\$ 4000.00
\$ 9.000.00 | \$ 434.500.00
\$ 196.500.00
\$ 7,000.00
\$ 7,500.00
\$ 7,500.00
\$ 4,000.00
\$ 4,000.00
\$ 9,000.00
\$ 9,000.00 | | Each Each Each Each Each Each Each Each | \$ 12200
\$ 8.70000
\$ 7,300.00
\$ 7,300.00
\$ 10,000.00
\$ 3,700.00
\$ 5,100.00
\$ 8,700.00
\$ 3,700.00
 | \$.481,003.00
\$.200,000.00
\$.8700.00
\$.7000.00
\$.7000.00
\$.7000.00
\$.3700.00
\$.8700.00
\$.7000.00
\$.7000.00 | | Each 1 | \$ 5007
\$ 8467
\$ 7,11744
\$ 7,14209
\$ 8,319.08
\$ 10,41426
\$ 7,64123
\$ 9,14483
 | \$ 365,778.50
\$ 198,741.00
\$ 7,117.64
\$ 7,142.00
\$ 8,319.08
\$ 10,414.26
\$ 3,062.65
\$ 1,520.46
\$ 9,144.83 | | Each Each Each Each Each Each Each Each | \$ 75.00
\$ 9.510.00
\$ 9.510.00
\$ 9.510.00
\$ 19.100.00
\$ 4.750.00
\$ 19.100.00
\$ 19.00.00
\$ 5.000.00 | \$9510.00 \$9510.00 \$9510.00 \$9510.00 \$9510.00 \$4750.00 \$8200.00 \$810.00 \$9510.00 \$9510.00
 | | Each Each Each Each Each Each Each Each | \$ 65.00
\$ 7.400.00
\$ 7.400.00
\$ 10,750.00
\$ 3,500.00
\$ 8,000.00
\$ 9,000.00
\$ 4,000.00 | \$149,500,00
\$7,400,00
\$7,400,00
\$7,400,00
\$10,760,00
\$3,500,00
\$16,000,00
\$9,000,00
\$8,000,00 |
 | Linear Foot S | 70.00
20.000.00
16.000.00
18.000.00
30.000.00
15.000.00
20.000.00 | \$ | | Each Each Each Each Each Each Each Each | \$ 90,00
\$ 7,500,00
\$ 7,500,00
\$ 7,500,00
\$ 12,000,00
\$ 3,500,00
\$ 9,000,00
\$ 9,000,00 | \$ _207,000.00 \$ _7,500.00 \$ _7,500.00 \$ _7,500.00 \$ _12,000.00 \$ _12,000.00 \$ _16,000.00 \$ _9,000.00 \$ _9,000.00
 |
| 79. TWIC chain left force, in place, complete. 80. Let we security drain left force, in place, complete. 81. Similar security drain left force, in place, complete. 82. Let we security drain left double sering gate, in place, complete. 83. Similar left fill of the security drain left double sering gate, in place, complete. 84. Similar left fill of their left double sering gate, in place, complete. 85. Similar left fill of their left double sering gate, in place, complete. 86. Similar left fill of their left double sering gate, in place, complete. 87. Similar left fill of their left double sering gate, in place, complete. 88. Similar left fill of their left double sering gate, in place, complete. 98. Similar left double sering gate, in place, complete. 98. Similar left double sering gate, in place, complete. 98. Similar left double sering gate, in place, complete. 98. Similar left double sering gate, in place, complete. 98. Similar left double sering gate, in place, complete. 98. Similar left double sering gate, in place, complete. | 3.950
2.300
1
1
1
1
1
2 | Linear Foot Linear Foot Each Each Each Each Each Each | \$ 85.00
\$ 7.000.00
\$ 7.500.00
\$ 7.500.00
\$ 45.000.00
\$ 4000.00
\$ 8.000.00 | \$ 434 500 00
\$ 199 500 00
\$ 7,000 00
\$ 7,000 00
\$ 45,000 00
\$ 45,000 00
\$ 45,000 00
\$ 9,000 00 | 2,300
1
1
1
1
1
1 | Each Each Each Each Each Each | \$ 12200
\$ 8.700.00
\$ 7,300.00
\$ 10,900.00
\$ 3,700.00
\$ 5,100.00
\$ 8,700.00
 | 5 40 900 00
5 200 00 00
5 2700 00
5 7,000 00
5 7,000 00
5 10,000 00
5 10,000 00
5 10,000 00
5 10,000 00
5 8 700 00 | 2,300
1
1
1
1
1
1 | Each 1 | \$ 90.07
\$ 94.67
\$ 7.117.64
\$ 7.142.09
\$ 8.319.08
\$ 10.414.26
\$ 3.062.65
\$ 7.641.23
\$
9.144.83 | \$ 365,778.50
\$ 198,741.00
\$ 7,142.00
\$ 8,319.08
\$ 10,414.28
\$ 3,062.65
\$ 15,262.46
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| 79. TWIC chain list fance, in place, complete. 50. Live security drain list fance, in place, complete. 51. All self-security drain list fance, in place, complete. 52. All self-self-security drain list dicubel swring geste, in place, complete. 52. All self-self-yritic Chain list dicubel swring geste, in place, complete. 53. All self-self-yritic Chain list dicubel swring geste, in place, complete. 54. All self-self-yritic Chain list dicubel swring geste, in place, complete. 55. To's wide to security chain list dicubel swring geste, in place, complete. 56. 32 wide to security chain list dicubel swring geste, in place, complete. 57. Wide to security chain list dicubel swring geste, in place, complete. | 3.950
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 |
79. TWIC chain left force, in place, complete. 80. Low security drain left force, in place, complete. 81. Service in security drain left force, in place, complete. 82. All left force in security drain left force in grate, in place, complete. 83. Service in FVIC Chain left doubte sering gate, in place, complete. 84. Service in FVIC Chain left doubte sering gate, in place, complete. 85. Service in FVIC Chain left doubte sering gate, in place, complete. 86. Service in FVIC Chain left doubte sering gate, in place, complete. 86. Service in the security drain left doubte sering gate, in place, complete. 86. Service in the security drain left doubte sering gate, in place, complete. 87. Service in the security drain left doubte sering gate, in place, complete. 88. Service in the security drain left doubte sering gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete.	3.950 2.300 1 1 1 1 1 1 2 1 2 1 1.500	Linear Foot Each Each Each Each Each Each Linear Foot Linear Foot	\$ _85,00 \$ _7,000,00 \$ _7,500,00 \$ _7,500,00 \$ _4,000,00 \$ _4,000,00 \$ _9,000,00 \$ _9,000,	5 434 500.00 5 150.000.00 5 7,000.00 5 7,000.00 5 7,600.00 5 7,600.00 5 4,000.00 5 4,000.00 5 4,000.00 5 1,000.00 5 1,000.00 5 1,173,560.00	2,300 1 1 1 1 1 2 1 2 1 1,530	Linear Foot Each Each Each Each Each Each Each Linear Foot	\$ _122.00 \$ _8700.00 \$ _7,300.00 \$ _7,300.00 \$ _10,500.00 \$ _3,700.00 \$ _5,00	\$ 451 500 00 \$ 220 000 00 \$ 220 000 00 \$ 230 00 \$ 7,000 00 \$ 10,000 00 \$ 10,0	2,300 1 1 1 1 1 2 1 1 2 1 1,530	Linear Foot 1 Each 1	\$ 9007 \$ 8457 \$ 7.117.44 \$ 7.142.09 \$ 8.319.08 \$ 10.414.26 \$ 3.062.65 \$ 7.641.23 \$ 9.144.63 \$ 2.967.90 \$ 4.126.44 \$ 2.20.90	\$ 360,778.00 \$ 198,741.00 \$ 7,147.00 \$ 7,147.00 \$ 8,7142.00 \$ 8,000,000 \$ 10,414.20 \$ 3,000.60 \$ 15,280.40 \$ 9,44.80 \$ 1,540.40 \$ 1,540.40	2,300 1 1 1 1 1 2 1 2 1 1,530	Each Each Each Each Each Each Each Each	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 19.100.00 \$ 19.00.00 \$ 19.00.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00	\$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 19,100.00 \$ 4750.00 \$ 38,200.00 \$ 15,000.00 \$ 10,000.00	2,300 1 1 1 1 1 2 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 65.00 \$ 7.400.00 \$ 7.400.00 \$ 7.400.00 \$ 10,750.00 \$ 3,500.00 \$ 9,000.00 \$ 17,000.00 \$ 160.00	\$ 149,500,00 \$ 7,400,00 \$ 7,400,00 \$ 7,400,00 \$ 10,760,00 \$ 3,500,00 \$ 9,000,00 \$ 9,000,00 \$ 17,000,00 \$ 244,800,00	2,300 1 1 1 1 1 2 1 2 1 1,530	Linear Foot S	70.00 20.000.00 16.000.00 18.000.00 30.000.00 15,000.00 20.000.00 6.000.00 15.000.00	\$ 161,000,00 \$ 20,000,00 \$ 16,000,00 \$ 16,000,00 \$ 30,000,00 \$ 40,000,00 \$ 20,000,00 \$ 12,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00	2,300 1 1 1 1 1 2 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 7500.00 \$ 7500.00 \$ 7500.00 \$ 7,500.00 \$ 12,000.00 \$ 3,500.00 \$ 8,000.00 \$ 9,000.00 \$ 2,500.00 \$ 2,500.00 \$ 175.00	\$ 207,000,00 \$ 7,500,00 \$ 7,500,00 \$ 7,500,00 \$ 12,000,00 \$ 3,500,00 \$ 9,000,00 \$ 5,500,00 \$ 267,750,00
TWC chain bit ferce, in place, complete. 10. Les securit d'abilités les ces in sieue, complete. 11. Zelle securit d'abilités les ces in sieue, complete. 12. Les securit d'abilités les ces in sieue, complete. 12. Les securit d'abilités les controllés serieg gait, in place, complete. 13. Zelle serie les completes d'abilités les completes, in place, complete. 14. Les vieue l'avrice train les double serieg gait, in place, complete. 15. To vieue les securits chain les double serieg gait, in place, complete. 16. Zelle securit d'abilités de double serieg gait, in place, complete. 17. Zelle securit d'abilités de double serieg gait, in place, complete. 17. Se diés les securits chain les double serieg gait, in place, complete. 17. Se diés les securits chain les double serieg gait, in place, complete. 17. Se diés les securits chain les double serieg gait, in place, complete. 18. Service des securits chain les doubles serieg gait, in place, complete. 19. Service securits chain les doubles serieg gait, in place, complete. 19. Service securits chain les doubles serieg gait, in place, complete.	3.950 2.300 1 1 1 1 1 1 2 1 2 1 1.500	Linear Foot Linear Foot Each Each Each Each Each Each Each Each	\$ 85.00 \$ 7.000.00 \$ 7.500.00 \$ 7.500.00 \$ 4.000.00 \$ 4.000.00 \$ 9.000.00 \$ 1.200.00 \$ 1.500.00	\$ 434 500 00 \$ 196 500 00 \$ 7,000 00 \$ 7,000 00 \$ 7,600 00 \$ 46,000 00 \$ 46,000 00 \$ 9,000 00 \$ 9,000 00 \$ 16,000 00 \$ 16,000 00 \$ 16,000 00	2,300 1 1 1 1 1 2 1 2 1	Linear Foot Each	\$ 122.00 \$ 8.700.00 \$ 7.300.00 \$ 7.300.00 \$ 10,500.00 \$ 3.700.00 \$ 8.700.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00 \$ 1,500.00	\$ _401001001 \$ _2004001001 \$ _8700000 \$ _730000 \$ _1000000 \$ _3700000 \$ _1000000 \$ _100000 \$ _1000000 \$ _100000 \$ _10000000 \$ _1000000 \$ _1000000 \$ _1000000 \$ _1000000 \$ _1000000 \$ _10000000 \$ _100000000 \$ _100000000000 \$ _1000000000000000000000000000000000000	2,300 1 1 1 1 1 1 2 1 1	Linear Foot 1 Each 1 Ea	\$9007 \$8467 \$7117.44 \$7142.09 \$8219.08 \$910.414.26 \$3062.65 \$9144.83 \$9144.83 \$9144.83	\$ 360,778.50 \$ 198,741.00 \$ 7,147.44 \$ 7,142.00 \$ 8,319.08 \$ 10,444.28 \$ 1,522.46 \$ 1,522.46 \$ 1,522.46 \$ 4,366.44	2,300 1 1 1 1 1 2 1	Linear Foot Each	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 15.000.00 \$ 15.000.00	\$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 19,100.00 \$ 4750.00 \$ 38,200.00 \$ 15,000.00 \$ 10,000.00	2,300 1 1 1 1 1 2 1	Each Each Each Each Each Each Each Each	\$ 65.00 \$ 7.400.00 \$ 7.400.00 \$ 10.750.00 \$ 3.500.00 \$ 8.000.00 \$ 9.000.00 \$ 1.700.00 \$ 1.700.00	\$ 149,500,00 \$ 7,400,00 \$ 7,400,00 \$ 10,750,00 \$ 3,500,00 \$ 16,000,00 \$ 9,000,00 \$ 8,000,00 \$ 8,000,00 \$ 17,000,00	2,300 1 1 1 1 1 2 1 2	Linear Foot S	70.00 20.000.00 16.000.00 18.000.00 30.000.00 15.000.00 20.000.00 6.000.00 15.000.00	\$	2,300 1 1 1 1 1 1 2 1	Linear Foot Each	\$ 7500.00 \$ 7500.00 \$ 7500.00 \$ 7500.00 \$ 12,000.00 \$ 3,500.00 \$ 9,000.00 \$ 9,000.00 \$ 2,500.00 \$ 2,500.00	\$ _207,000,00 \$ _7,500,00 \$ _7,500,00 \$ _7,500,00 \$ _15,000,00 \$ _3,500,00 \$ _9,000,00 \$ _5,000,00 \$ _5,000,00 \$ _5,000,00
79. TWIC chain left force, in place, complete. 80. Low security drain left force, in place, complete. 81. Service in security drain left force, in place, complete. 82. All left force in security drain left force in grate, in place, complete. 83. Service in FVIC Chain left doubte sering gate, in place, complete. 84. Service in FVIC Chain left doubte sering gate, in place, complete. 85. Service in FVIC Chain left doubte sering gate, in place, complete. 86. Service in FVIC Chain left doubte sering gate, in place, complete. 86. Service in the security drain left doubte sering gate, in place, complete. 86. Service in the security drain left doubte sering gate, in place, complete. 87. Service in the security drain left doubte sering gate, in place, complete. 88. Service in the security drain left doubte sering gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete.	3.950 2.300 1 1 1 1 1 1 2 1 2 1 1.500	Linear Foot Each Each Each Each Each Each Linear Foot Linear Foot	\$ _85,00 \$ _7,000,00 \$ _7,000,00 \$ _7,000,00 \$ _4,000,00 \$ _4,	5 434 500.00 5 150.000.00 5 7,000.00 5 7,000.00 5 7,600.00 5 7,600.00 5 4,000.00 5 4,000.00 5 4,000.00 5 1,000.00 5 1,000.00 5 1,173,560.00	2,300 1 1 1 1 1 2 1 2 1 1,530	Linear Foot Each Each Each Each Each Each Each Linear Foot	\$ _122.00 \$ _8700.00 \$ _7,300.00 \$ _7,300.00 \$ _10,500.00 \$ _3,700.00 \$ _5,00	\$ 451 500 00 \$ 220 000 00 \$ 220 000 00 \$ 230 00 \$ 7,000 00 \$ 10,000 00 \$ 10,0	2,300 1 1 1 1 1 2 1 1 2 1 1,530	Linear Foot 1 Each 1	\$ 9007 \$ 8457 \$ 7.117.44 \$ 7.142.09 \$ 8.319.08 \$ 10.414.26 \$ 3.062.65 \$ 7.641.23 \$ 9.144.63 \$ 2.967.90 \$ 4.126.44 \$ 2.20.90	\$ 360,778.00 \$ 198,741.00 \$ 7,147.00 \$ 7,147.00 \$ 8,7142.00 \$ 8,000,000 \$ 10,414.20 \$ 3,000.60 \$ 15,280.40 \$ 9,44.80 \$ 1,540.40 \$ 1,540.40	2,300 1 1 1 1 1 2 1 2 1 1,530	Each Each Each Each Each Each Each Each	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 19.100.00 \$ 19.00.00 \$ 19.00.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00	\$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 19,100.00 \$ 4750.00 \$ 38,200.00 \$ 15,000.00 \$ 10,000.00	2,300 1 1 1 1 1 2 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 65.00 \$ 7.400.00 \$ 7.400.00 \$ 7.400.00 \$ 10,750.00 \$ 3,500.00 \$ 9,000.00 \$ 17,000.00 \$ 160.00	\$ 149,500,00 \$ 7,400,00 \$ 7,400,00 \$ 7,400,00 \$ 10,760,00 \$ 3,500,00 \$ 9,000,00 \$ 9,000,00 \$ 17,000,00 \$ 244,800,00	2,300 1 1 1 1 1 2 1 2 1 1,530	Linear Foot S	70.00 20.000.00 16.000.00 18.000.00 30.000.00 15,000.00 20.000.00 6.000.00 15.000.00	\$ 161,000,00 \$ 20,000,00 \$ 16,000,00 \$ 16,000,00 \$ 30,000,00 \$ 40,000,00 \$ 20,000,00 \$ 12,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00	2,300 1 1 1 1 1 2 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 7500.00 \$ 7500.00 \$ 7500.00 \$ 7,500.00 \$ 12,000.00 \$ 3,500.00 \$ 8,000.00 \$ 9,000.00 \$ 2,500.00 \$ 2,500.00 \$ 175.00	\$ 207,000,00 \$ 7,500,00 \$ 7,500,00 \$ 7,500,00 \$ 12,000,00 \$ 3,500,00 \$ 9,000,00 \$ 5,500,00 \$ 267,750,00
79. TWIC chain left force, in place, complete. 80. Low security drain left force, in place, complete. 81. Service in security drain left force, in place, complete. 82. All left force in security drain left force in grate, in place, complete. 83. Service in FVIC Chain left doubte sering gate, in place, complete. 84. Service in FVIC Chain left doubte sering gate, in place, complete. 85. Service in FVIC Chain left doubte sering gate, in place, complete. 86. Service in FVIC Chain left doubte sering gate, in place, complete. 86. Service in the security drain left doubte sering gate, in place, complete. 86. Service in the security drain left doubte sering gate, in place, complete. 87. Service in the security drain left doubte sering gate, in place, complete. 88. Service in the security drain left doubte sering gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete.	3.950 2.300 1 1 1 1 1 1 2 1 2 1 1.500	Linear Foot Each Each Each Each Each Each Linear Foot Linear Foot	\$ _85,00 \$ _7,000,00 \$ _7,000,00 \$ _7,000,00 \$ _4,000,00 \$ _4,	5 434 500.00 5 150.000.00 5 7,000.00 5 7,000.00 5 7,600.00 5 7,600.00 5 4,000.00 5 4,000.00 5 4,000.00 5 1,000.00 5 1,000.00 5 1,173,560.00 5 1,73,560.00	2,300 1 1 1 1 1 2 1 2 1 1,530	Linear Foot Each Each Each Each Each Each Each Linear Foot	\$ _122.00 \$ _8700.00 \$ _7,300.00 \$ _7,300.00 \$ _10,500.00 \$ _3,700.00 \$ _5,00	\$ 451 500 00 \$ 220 000 00 \$ 220 000 00 \$ 230 00 \$ 7,000 00 \$ 10,000 00 \$ 10,0	2,300 1 1 1 1 1 2 1 1 2 1 1,530	Linear Foot 1 Each 1	\$ 9007 \$ 8457 \$ 7.117.44 \$ 7.142.09 \$ 8.319.08 \$ 10.414.26 \$ 3.062.65 \$ 7.641.23 \$ 9.144.63 \$ 2.967.90 \$ 4.126.44 \$ 2.20.90	\$ 360,778.00 \$ 198,741.00 \$ 7,147.00 \$ 7,147.00 \$ 8,7142.00 \$ 8,000,000 \$ 10,414.20 \$ 3,000.60 \$ 15,280.40 \$ 9,44.80 \$ 1,540.40 \$ 1,540.40	2,300 1 1 1 1 1 2 1 2 1 1,530	Each Each Each Each Each Each Each Each	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 19.100.00 \$ 19.00.00 \$ 19.00.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00	\$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 19,100.00 \$ 4750.00 \$ 38,200.00 \$ 15,000.00 \$ 10,000.00	2,300 1 1 1 1 1 2 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 65.00 \$ 7.400.00 \$ 7.400.00 \$ 7.400.00 \$ 10,750.00 \$ 3,500.00 \$ 9,000.00 \$ 17,000.00 \$ 160.00	\$ 149,500,00 \$ 7,400,00 \$ 7,400,00 \$ 7,400,00 \$ 10,760,00 \$ 3,500,00 \$ 9,000,00 \$ 9,000,00 \$ 17,000,00 \$ 244,800,00	2,300 1 1 1 1 1 2 1 2 1 1,530	Linear Foot S	70.00 20.000.00 16.000.00 18.000.00 30.000.00 15,000.00 20.000.00 6.000.00 15.000.00	\$ 161,000,00 \$ 20,000,00 \$ 16,000,00 \$ 16,000,00 \$ 30,000,00 \$ 40,000,00 \$ 20,000,00 \$ 12,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00	2,300 1 1 1 1 1 2 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 7500.00 \$ 7500.00 \$ 7500.00 \$ 7,500.00 \$ 12,000.00 \$ 3,500.00 \$ 8,000.00 \$ 9,000.00 \$ 2,500.00 \$ 2,500.00 \$ 175.00	\$ 207,000,00 \$ 7,500,00 \$ 7,500,00 \$ 7,500,00 \$ 12,000,00 \$ 3,500,00 \$ 9,000,00 \$ 5,500,00 \$ 267,750,00
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79. TWIC chain left force, in place, complete. 80. Low security drain left force, in place, complete. 81. Service in security drain left force, in place, complete. 82. All left force in security drain left force in grate, in place, complete. 83. Service in FVIC Chain left doubte sering gate, in place, complete. 84. Service in FVIC Chain left doubte sering gate, in place, complete. 85. Service in FVIC Chain left doubte sering gate, in place, complete. 86. Service in FVIC Chain left doubte sering gate, in place, complete. 86. Service in the security drain left doubte sering gate, in place, complete. 86. Service in the security drain left doubte sering gate, in place, complete. 87. Service in the security drain left doubte sering gate, in place, complete. 88. Service in the security drain left doubte sering gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 89. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete. 99. Service in the security drain left doubte serving gate, in place, complete.	3.950 2.300 1 1 1 1 1 1 2 1 2 1 1.500	Linear Foot Each Each Each Each Each Each Linear Foot Linear Foot	\$ _85,00 \$ _7,000,00 \$ _7,000,00 \$ _7,000,00 \$ _4,000,00 \$ _4,	5 434 500.00 5 150.000.00 5 7,000.00 5 7,000.00 5 7,600.00 5 7,600.00 5 4,000.00 5 4,000.00 5 4,000.00 5 1,000.00 5 1,000.00 5 1,173,560.00 5 1,73,560.00	2,300 1 1 1 1 1 2 1 2 1 1,530	Linear Foot Each Each Each Each Each Each Each Linear Foot	\$ _122.00 \$ _8700.00 \$ _7,300.00 \$ _7,300.00 \$ _10,500.00 \$ _3,700.00 \$ _5,00	\$ 451 500 00 \$ 220 000 00 \$ 220 000 00 \$ 230 00 \$ 7,000 00 \$ 10,000 00 \$ 10,0	2,300 1 1 1 1 1 2 1 1 2 1 1,530	Linear Foot 1 Each 1	\$ 9007 \$ 8457 \$ 7.117.44 \$ 7.142.09 \$ 8.319.08 \$ 10.414.26 \$ 3.062.65 \$ 7.641.23 \$ 9.144.63 \$ 2.967.90 \$ 4.126.44 \$ 2.20.90	\$ 360,778.00 \$ 198,741.00 \$ 7,147.00 \$ 7,147.00 \$ 8,7142.00 \$ 8,000,000 \$ 10,414.20 \$ 3,000.60 \$ 15,280.40 \$ 9,44.80 \$ 1,540.40 \$ 1,540.40	2,300 1 1 1 1 1 2 1 2 1 1,530	Each Each Each Each Each Each Each Each	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 19.100.00 \$ 19.00.00 \$ 19.00.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00	\$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 19,100.00 \$ 4750.00 \$ 38,200.00 \$ 15,000.00 \$ 10,000.00	2,300 1 1 1 1 1 2 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 65.00 \$ 7.400.00 \$ 7.400.00 \$ 7.400.00 \$ 10,750.00 \$ 3,500.00 \$ 9,000.00 \$ 17,000.00 \$ 160.00	\$ 149,500,00 \$ 7,400,00 \$ 7,400,00 \$ 7,400,00 \$ 10,750,00 \$ 3,500,00 \$ 9,000,00 \$ 9,000,00 \$ 17,000,00 \$ 244,800,00	2,300 1 1 1 1 1 2 1 2 1 1,530	Linear Foot S	70.00 20.000.00 16.000.00 18.000.00 30.000.00 15,000.00 20.000.00 6.000.00 15.000.00	\$ 161,000,00 \$ 20,000,00 \$ 16,000,00 \$ 16,000,00 \$ 30,000,00 \$ 40,000,00 \$ 20,000,00 \$ 12,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00	2,300 1 1 1 1 1 2 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 7500.00 \$ 7500.00 \$ 7500.00 \$ 7,500.00 \$ 12,000.00 \$ 3,500.00 \$ 8,000.00 \$ 9,000.00 \$ 2,500.00 \$ 2,500.00 \$ 175.00	\$ 207,000,00 \$ 7,500,00 \$ 7,500,00 \$ 7,500,00 \$ 12,000,00 \$ 3,500,00 \$ 9,000,00 \$ 5,500,00 \$ 267,750,00
79. TWIC chain les ferces in places, complete. 80. Low security drain les ferces, in places, complete. 81. Ser les travestrify drain les fecus, in places, complete. 82. All les FTIC Chain les double seuing gasts, in places, complete. 82. All les FTIC Chain les double seuing gasts, in places, complete. 83. All les fest FTIC Chain les double seuing gasts, in places, complete. 84. All les fest FTIC Chain les double seuing gasts, in places, complete. 85. Till les fest FTIC Chain les double seuing gasts, in places, complete. 86. Till les fest les security chain les double seuing gasts, in places, complete. 87. We les fest les security chain les double seuing gasts, in places, complete. 98. We les fest les security chain les double seuing gasts, in places, complete. 99. We les fest les security chain les double seuing gasts, in places, complete. 99. Security gasts les security chain les double seuing gasts, in places, complete. 99. Security drain les doubles seuing gasts, in places, complete. 99. Security drain les doubles seuing gasts, in places, complete. 99. Security gasts les security chain les doubles seuing gasts, in places, complete. 99. Security drain les doubles seuing gasts, in places, complete. 99. Security des les security chain les doubles seuing gasts, in places, complete. 99. Security des les security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete.	3.950 2.300 1 1 1 1 1 1 2 1 2 1 1.500	Linear Foot Each Each Each Each Each Each Linear Foot Linear Foot	\$ _85,00 \$ _7,000,00 \$ _7,000,00 \$ _7,000,00 \$ _4,000,00 \$ _4,	\$ 434.500.00 \$ 156.500.00 \$ 7,600.00 \$ 7,600.00 \$ 7,600.00 \$ 45,000.00 \$ 45,000.00 \$ 16,000.00 \$ 15,000.00 \$ 110,000.00 \$ 117,900.00 \$ 117,900.00	2,300 1 1 1 1 1 2 1 2 1 1,530	Linear Foot Each Each Each Each Each Each Each Linear Foot	\$ _122.00 \$ _8700.00 \$ _7,300.00 \$ _7,300.00 \$ _10,500.00 \$ _3,700.00 \$ _5,00	\$ 451 500 00 \$ 220 000 00 \$ 220 000 00 \$ 230 00 \$ 7,000 00 \$ 10,000 00 \$ 10,0	2,300 1 1 1 1 1 2 1 1 2 1 1,530	Linear Foot 1 Each 1	\$ 9007 \$ 8457 \$ 7.117.44 \$ 7.142.09 \$ 8.319.08 \$ 10.414.26 \$ 3.062.65 \$ 7.641.23 \$ 9.144.63 \$ 2.967.90 \$ 4.126.44 \$ 2.20.90	\$ 360,778.00 \$ 198,741.00 \$ 7,147.00 \$ 7,147.00 \$ 8,7142.00 \$ 8,000,000 \$ 10,414.20 \$ 3,000.60 \$ 15,280.40 \$ 9,44.80 \$ 1,540.40 \$ 1,540.40	2,300 1 1 1 1 1 2 1 2 1 1,530	Each Each Each Each Each Each Each Each	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 19.100.00 \$ 19.00.00 \$ 19.00.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00	\$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 9510.00 \$ 19,100.00 \$ 4750.00 \$ 38,200.00 \$ 15,000.00 \$ 10,000.00	2,300 1 1 1 1 1 2 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 65.00 \$ 7.400.00 \$ 7.400.00 \$ 7.400.00 \$ 10,750.00 \$ 3,500.00 \$ 9,000.00 \$ 17,000.00 \$ 160.00	\$ 149,500,00 \$ 7,400,00 \$ 7,400,00 \$ 7,400,00 \$ 10,750,00 \$ 3,500,00 \$ 9,000,00 \$ 9,000,00 \$ 17,000,00 \$ 244,800,00	2,300 1 1 1 1 1 2 1 2 1 1,530	Linear Foot S	70.00 20.000.00 16.000.00 18.000.00 30.000.00 15,000.00 20.000.00 6.000.00 15.000.00	\$ 161,000,00 \$ 20,000,00 \$ 16,000,00 \$ 16,000,00 \$ 30,000,00 \$ 40,000,00 \$ 20,000,00 \$ 12,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00	2,300 1 1 1 1 1 2 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 7500.00 \$ 7500.00 \$ 7500.00 \$ 7500.00 \$ 12,000.00 \$ 3,500.00 \$ 8,000.00 \$ 9,000.00 \$ 2,500.00 \$ 2,500.00 \$ 175.00	\$ 207,000,00 \$ 7,500,00 \$ 7,500,00 \$ 7,500,00 \$ 12,000,00 \$ 12,000,00 \$ 14,000,00 \$ 140,000,00 \$ 2,000,00 \$ 2,000,00 \$ 3,000,00
79. TWIC chain les ferces in places, complete. 80. Low security drain les ferces, in places, complete. 81. Ser les travestrify drain les fecus, in places, complete. 82. All les FTIC Chain les double seuing gasts, in places, complete. 82. All les FTIC Chain les double seuing gasts, in places, complete. 83. All les fest FTIC Chain les double seuing gasts, in places, complete. 84. All les fest FTIC Chain les double seuing gasts, in places, complete. 85. Till les fest FTIC Chain les double seuing gasts, in places, complete. 86. Till les fest les security chain les double seuing gasts, in places, complete. 87. We les fest les security chain les double seuing gasts, in places, complete. 98. We les fest les security chain les double seuing gasts, in places, complete. 99. We les fest les security chain les double seuing gasts, in places, complete. 99. Security gasts les security chain les double seuing gasts, in places, complete. 99. Security drain les doubles seuing gasts, in places, complete. 99. Security drain les doubles seuing gasts, in places, complete. 99. Security gasts les security chain les doubles seuing gasts, in places, complete. 99. Security drain les doubles seuing gasts, in places, complete. 99. Security des les security chain les doubles seuing gasts, in places, complete. 99. Security des les security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete.	3,950 2,300 1 1 1 1 1 1 2 1 1,530 1,400	Linear Foot Linear Foot Each Each Each Each Each Linear Foot Linear Foot Linear Foot Linear Foot	\$ 85.00 \$ 7.000.00 \$ 7.000.00 \$ 7.000.00 \$ 4.000.00 \$ 8.000.00 \$ 1.000.00 \$ 1.000.00 \$ 1.000.00 \$ 1.000.00 \$ 1.000.00 \$ 1.000.00	\$ 434.900.00 \$ 196.900.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 4,000.00 \$ 4,000.00 \$ 1,000.00 \$ 2,400.00 \$ 1,500.00 \$	2,300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Linear Foot Linear Foot	\$ 12200 \$ 8.70000 \$ 7,00000 \$ 1,00000 \$ 10,00000 \$ 3,700.00 \$ 5,100.00 \$ 3,700.00 \$ 1,000.00 \$ 1,00	\$ 441 000 00 \$ 200 000 00 \$ 200 000 00 \$ 200 00 \$ 7,000 00 \$ 10,000 00 \$ 10,000 00 \$ 4,700 00 \$ 5,700 00	2,300 1 1 1 1 1 2 1 1 1,530 1,400	Each 1	\$ 9007 \$ 8467 \$ 7.11744 \$ 7.14209 \$ 8.31908 \$ 10.41426 \$ 3.06265 \$ 7.66123 \$ 9.14463 \$ 9.26700 \$ 4.30646 \$ 2.90700 \$ 8.0000	\$ 366,778.00 \$ 198,741.00 \$ 7,442.00 \$ 7,442.00 \$ 8,319.00 \$ 10,444.20 \$ 10,444.20 \$ 15,282.40 \$ 15,282.40 \$ 18,442.00 \$ 18,4	2,300 1 1 1 1 1 1 2 1 1,530 1,400	Each Each Each Each Each Each Each Linear Foot	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 14.750.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00	\$ 174,800,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 12,500,000 \$ 12,500,000 \$ 15,000,000 \$ 15,000	2,300 1 1 1 1 1 1 2 1 1 1,530 1,400	Linear Foot Each Each Each Each Each Each Each Each Linear Foot	\$ 66.00 \$ 7,400.00 \$ 7,400.00 \$ 7,400.00 \$ 10,700.00 \$ 3,500.00 \$ 3,500.00 \$ 4,000.00 \$ 10,000.00 \$	\$ 148,00,00 \$ 7,60,00 \$ 7,60,00 \$ 7,60,00 \$ 10,750,00 \$ 3,500,00 \$ 9,600,00 \$ 18,000,00 \$ 18,000,00 \$ 18,000,00 \$ 18,000,00 \$ 17,000,00 \$	2.300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1,000 1,	Linear Foot S_	70.00 20.000.00 16.000.00 18.000.00 18.000.00 15.000.00 20.000.00 20.000.00 15.000.00 15.000.00	\$ 161,000,00 \$ 20,000,00 \$ 16,000,00 \$ 16,000,00 \$ 30,000,00 \$ 40,000,00 \$ 20,000,00 \$ 12,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00	2,300 1 1 1 1 1 1 2 1 1 2 1 1,530	Each Each Each Each Each Each Each Each	\$ 50,00 \$ 7,500,00 \$ 7,500,00 \$ 7,500,00 \$ 12,000,00 \$ 3,500,00 \$ 2,000,00 \$ 2,000,00 \$ 2,500,00 \$ 1,7500,00 \$ 2,500,00 \$ 1,7500,00 \$ 1,	\$ 207,000,00 \$ 7,000,00 \$ 7,000,00 \$ 7,000,00 \$ 12,000,00 \$ 3,000,00 \$ 9,000,00 \$ 2,000,00 \$ 2,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00
79. TWIC chain les ferces in places, complete. 80. Low security drain les ferces, in places, complete. 81. Ser les travestrify drain les fecus, in places, complete. 82. All les FTIC Chain les double seuing gasts, in places, complete. 82. All les FTIC Chain les double seuing gasts, in places, complete. 83. All les fest FTIC Chain les double seuing gasts, in places, complete. 84. All les fest FTIC Chain les double seuing gasts, in places, complete. 85. Till les fest FTIC Chain les double seuing gasts, in places, complete. 86. Till les fest les security chain les double seuing gasts, in places, complete. 87. We les fest les security chain les double seuing gasts, in places, complete. 98. We les fest les security chain les double seuing gasts, in places, complete. 99. We les fest les security chain les double seuing gasts, in places, complete. 99. Security gasts les security chain les double seuing gasts, in places, complete. 99. Security drain les doubles seuing gasts, in places, complete. 99. Security drain les doubles seuing gasts, in places, complete. 99. Security gasts les security chain les doubles seuing gasts, in places, complete. 99. Security drain les doubles seuing gasts, in places, complete. 99. Security des les security chain les doubles seuing gasts, in places, complete. 99. Security des les security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete. 99. Security des security chain les doubles seuing gasts, in places, complete.	3,950 2,300 1 1 1 1 1 1 1 2 2 1 1,530 1,400	Linear Foot Each Each Each Each Each Each Linear Foot Linear Foot	\$ 85.00 \$ 7,000,00 \$ 7,500,00 \$ 7,500,00 \$ 4,000,00 \$ 4,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00	\$ 434.500.00 \$ 196.500.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 4,000.00 \$ 46,000.00 \$ 16,000.00 \$ 17,400.00 \$ 173,900.00 \$ 1,877,400.00	2,300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Each Linear Foot	\$ 12200 \$ 8.70000 \$ 7,30000 \$ 7,30000 \$ 10,00000 \$ 3,70000 \$ 1,00000 \$ 1,000	\$ 441,000,00 \$ 200,000,00 \$ 2700,00 \$ 2700,00 \$ 7,000,00 \$ 7,000,00 \$ 10,000,00 \$ 10,000,	2,300 1 1 1 1 1 2 1 1 2 1 1,530	Each 1	\$ 90,07 \$ 9467 \$ 7,1724 \$ 7,142,00 \$ 8,310,00 \$ 10,414,26 \$ 3,062,65 \$ 1,444,20 \$ 1,444,20 \$ 2,062,65 \$ 2,062,	\$ 365,778.50 \$ 198,741.00 \$ 7,142.00 \$ 2,142.00 \$ 3,000.66 \$ 10,414.26 \$ 3,000.66 \$ 1,520.46 \$ 1,520.46 \$ 3,000.66 \$ 1,520.46 \$	2,300 1 1 1 1 1 2 1 1 2 1 1,530 1,400	Each Each Each Each Each Each Land Each Each Each Each Land Each Land Each Land Each Land Land Land Land Land Land Land Land	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00	\$ 178,800,000 \$ 9,510,600 \$ 9,510,600 \$ 9,510,600 \$ 19,100,000 \$ 4,750,600 \$ 10,000,000 \$ 10,000	2,300 1 1 1 1 1 2 1 1,530 1,400	Linear Foot Each Each Each Each Each Each Each Each Linear Foot Linear Fo	\$ 65.00 \$ 7,400.00 \$ 7,400.00 \$ 7,400.00 \$ 10,750.00 \$ 10,750.00 \$ 3,600.00 \$ 10,000.00 \$ 10,000.00 \$ 1000.00 \$ 1000.00 \$ 1000.00 \$ 1000.00	\$ 148,00,00 \$ 7,40,00 \$ 7,40,00 \$ 7,40,00 \$ 10,70,00 \$ 10,70,00 \$ 16,00,00 \$ 16,00,00 \$ 14,00,00 \$ 14,00,00 \$ 14,00,00 \$ 14,00,00	2,300 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1	Linear Foot S_ Each S Linear Foot S	70.00 20.000.00 16.000.00 15.000.00 30.000.00 15.000.00 20.000.00 15.000.00 15.000.00 15.000.00 15.000.00	\$ 161,000,00 \$ 20,000,00 \$ 16,000,00 \$ 16,000,00 \$ 30,000,00 \$ 40,000,00 \$ 20,000,00 \$ 12,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00	2,300 1 1 1 1 1 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 9000 \$ 75000 \$ 75000 \$ 75000 \$ 75000 \$ 120000 \$ 1200000 \$ 350000 \$ 8 00000 \$ 2 00000 \$ 2 00000 \$ 2 00000 \$ 2 00000 \$ 2 00000 \$ 2 000000 \$ 3 000000 \$ 3 000000 \$ 3 0000000 \$ 3 0000000000	\$
79. TWIC chain les ferces in places, complete. 80. Low security drain les ferces, in places, complete. 81. 20 les feut places de la complete	3,950 2,300 1 1 1 1 1 1 2 1 1,530 1,400	Linear Foot Linear Foot Each Each Each Each Each Linear Foot Linear Foot Linear Foot Linear Foot	\$ 85.00 \$ 7.000.00 \$ 7.000.00 \$ 7.000.00 \$ 4.000.00 \$ 8.000.00 \$ 1.000.00 \$ 1.000.00 \$ 1.000.00 \$ 1.000.00 \$ 1.000.00 \$ 1.000.00	\$ 434.900.00 \$ 196.900.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 4,000.00 \$ 4,000.00 \$ 1,000.00 \$ 2,400.00 \$ 1,500.00 \$	2,300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Linear Foot Linear Foot	\$ 12200 \$ 8.70000 \$ 7,00000 \$ 1,00000 \$ 10,00000 \$ 3,700.00 \$ 5,100.00 \$ 3,700.00 \$ 1,000.00 \$ 1,00	\$ 441 000 00 \$ 200 000 00 \$ 200 000 00 \$ 200 00 \$ 7,000 00 \$ 10,000 00 \$ 10,000 00 \$ 4,700 00 \$ 5,700 00	2,300 1 1 1 1 1 2 1 1 1,530 1,400	Each 1	\$ 9007 \$ 8467 \$ 7.11744 \$ 7.14209 \$ 8.31908 \$ 10.41426 \$ 3.06265 \$ 7.66123 \$ 9.14463 \$ 9.26700 \$ 4.30646 \$ 2.90700 \$ 8.0000	\$ 366,778.00 \$ 198,741.00 \$ 7,442.00 \$ 7,442.00 \$ 8,319.00 \$ 10,444.20 \$ 10,444.20 \$ 15,282.40 \$ 15,282.40 \$ 18,442.00 \$ 18,4	2,300 1 1 1 1 1 1 2 1 1,530 1,400	Each Each Each Each Each Each Each Linear Foot	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 14.750.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00 \$ 15.000.00	\$ 174,800,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 12,500,000 \$ 12,500,000 \$ 15,000,000 \$ 15,000	2,300 1 1 1 1 1 1 2 1 1 1,530 1,400	Linear Foot Each Each Each Each Each Each Each Each Linear Foot	\$ 66.00 \$ 7,400.00 \$ 7,400.00 \$ 7,400.00 \$ 10,700.00 \$ 3,500.00 \$ 3,500.00 \$ 4,000.00 \$ 10,000.00 \$	\$ 148,00,00 \$ 7,60,00 \$ 7,60,00 \$ 7,60,00 \$ 10,750,00 \$ 3,500,00 \$ 9,600,00 \$ 18,000,00 \$ 18,000,00 \$ 18,000,00 \$ 18,000,00 \$ 17,000,00 \$	2.300 1 1 1 1 1 1 2 1 1 1 2 1 1 1.500 1.400	Linear Foot S_	70.00 20.000.00 16.000.00 18.000.00 18.000.00 15.000.00 20.000.00 20.000.00 15.000.00 15.000.00	\$ 161,000,00 \$ 20,000,00 \$ 16,000,00 \$ 16,000,00 \$ 30,000,00 \$ 40,000,00 \$ 20,000,00 \$ 12,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00	2,300 1 1 1 1 1 1 2 1 1 2 1 1,530	Each Each Each Each Each Each Each Each	\$ 50,00 \$ 7,500,00 \$ 7,500,00 \$ 7,500,00 \$ 12,000,00 \$ 3,500,00 \$ 2,000,00 \$ 2,000,00 \$ 2,500,00 \$ 1,7500,00 \$ 2,500,00 \$ 1,7500,00 \$ 1,	\$ _207,000,00 \$ 7,500,00 \$ 7,500,00 \$ 7,500,00 \$ 7,500,00 \$ 12,000,00 \$ 3,000,00 \$ 9,000,00 \$ 2,000,00 \$ 2,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00 \$ 3,000,00
79. TWIC chain les ferces in places, complete. 80. Low security drain les ferces, in places, complete. 81. 20 les feut places de la complete	3,950 2,300 1 1 1 1 1 1 1 2 2 1 1,530 1,400	Linear Foot Linear Foot Each Each Each Each Each Linear Foot Linear Foot Linear Foot Linear Foot	\$ 85.00 \$ 7,000,00 \$ 7,500,00 \$ 7,500,00 \$ 4,000,00 \$ 4,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00	\$ 434.500.00 \$ 196.500.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 4,000.00 \$ 46,000.00 \$ 16,000.00 \$ 17,400.00 \$ 173,900.00 \$ 1,877,400.00	2,300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Linear Foot Linear Foot	\$ 12200 \$ 8.70000 \$ 7,30000 \$ 7,30000 \$ 10,00000 \$ 3,70000 \$ 1,00000 \$ 1,000	\$ 441,000,00 \$ 200,000,00 \$ 2700,00 \$ 2700,00 \$ 7,000,00 \$ 7,000,00 \$ 10,000,00 \$ 10,000,	2,300 1 1 1 1 1 2 1 1 1,530 1,400	Each 1	\$ 90,07 \$ 9467 \$ 7,1724 \$ 7,142,00 \$ 8,310,00 \$ 10,414,26 \$ 3,062,65 \$ 1,444,20 \$ 1,444,20 \$ 2,062,65 \$ 2,062,	\$ 365,778.50 \$ 198,741.00 \$ 7,142.00 \$ 2,142.00 \$ 3,000.66 \$ 10,414.26 \$ 3,000.66 \$ 1,520.46 \$ 1,520.46 \$ 3,000.66 \$ 1,520.46 \$	2,300 1 1 1 1 1 2 1 1 2 1 1,530 1,400	Each Each Each Each Each Each Land Each Each Each Each Land Each Land Each Land Each Land Land Land Land Land Land Land Land	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00	\$ 178,800,000 \$ 9,510,600 \$ 9,510,600 \$ 9,510,600 \$ 19,100,000 \$ 4,750,600 \$ 10,000,000 \$ 10,000	2,300 1 1 1 1 1 2 1 1,530 1,400	Linear Foot Each Each Each Each Each Each Each Each Linear Foot Linear Fo	\$ 65.00 \$ 7,400.00 \$ 7,400.00 \$ 7,400.00 \$ 10,750.00 \$ 10,750.00 \$ 3,600.00 \$ 10,000.00 \$ 10,000.00 \$ 1000.00 \$ 1000.00 \$ 1000.00 \$ 1000.00	\$ 148,00,00 \$ 7,40,00 \$ 7,40,00 \$ 7,40,00 \$ 10,70,00 \$ 10,70,00 \$ 16,00,00 \$ 16,00,00 \$ 14,00,00 \$ 14,00,00 \$ 14,00,00 \$ 14,00,00	2,300 1 1 1 1 1 1 1 2 2 1 1 1,530 1,400	Linear Foot S_ Each S Linear Foot S	70.00 20.000.00 16.000.00 15.000.00 30.000.00 15.000.00 20.000.00 15.000.00 15.000.00 15.000.00 15.000.00	\$ 161,000,00 \$ 20,000,00 \$ 16,000,00 \$ 16,000,00 \$ 30,000,00 \$ 40,000,00 \$ 20,000,00 \$ 12,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00	2,300 1 1 1 1 1 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Land Each Each Each Each Linear Foot Linear Foot Linear Foot Linear Foot	\$ 9000 \$ 75000 \$ 75000 \$ 75000 \$ 75000 \$ 120000 \$ 1200000 \$ 350000 \$ 8 00000 \$ 2 00000 \$ 2 00000 \$ 2 00000 \$ 2 00000 \$ 2 00000 \$ 2 000000 \$ 3 000000 \$ 3 000000 \$ 3 0000000 \$ 3 0000000000	\$
79. TWIC chain les ferces in places, complete. 80. Low security drain les ferces, in places, complete. 81. 20 les feut places de la complete	3.950 2.300 1 1 1 1 1 1 2 2 1 1.530 1.400	Linea Fool Each Each Each Each Linea Fool Li	\$	\$ 434.500.00 \$ 156.500.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 4,000.00 \$ 4,000.00 \$ 16,000.00 \$ 110,000.00 \$ 117,950.00 \$ 119,000.00 \$ 400.000.00	2.300 1 1 1 1 1 1 1 1 1 1 1 1 LES	Linear Foot Each Each Each Each Each Each Each Linear Foot Linear Foot	\$ 12200 \$ 8.70000 \$ 7.0000 \$ 7.0000 \$ 5.70000 \$ 5.70000 \$ 5.70000 \$ 8.70000 \$ 8.70000 \$ 1084000 \$ 1084000 \$ 1084000 \$ 1084000 \$ 1084000	\$ 441 000 00 \$ 200 000 00 \$ 200 000 00 \$ 7,000 00 \$ 7,000 00 \$ 10,000 00 \$ 10,000 00 \$ 10,000 00 \$ 10,000 00 \$ 221,00 00 \$ 221,00 00 \$ 5 20,000 00 \$ 5 40,000 00 \$ 5 40,000 00	2,300 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot 1 Each 1	\$ 90.07 \$ 8467 \$ 7.11744 \$ 7,11744 \$ 7,11745 \$ 3,042.09 \$ 10,414.26 \$ 3,062.05 \$ 7,641.03 \$ 2,144.03 \$ 2	\$ 365,778.50 \$ 198,741.00 \$ 7,142.00 \$ 2,142.00 \$ 3,000.66 \$ 10,414.26 \$ 3,000.66 \$ 1,520.46 \$ 1,520.46 \$ 3,000.66 \$ 1,520.46 \$	2,300 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Leach Each Each Each Linear Foot Linear Foot Linear Sum Linear Sum	\$ 7500 \$ 95100 \$ 95100 \$ 95100 \$ 95100 \$ 191000 \$ 17500 \$ 150000 \$ 150000 \$ 17500 \$ 17500 \$ 17500 \$ 17500	\$ 174,800,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 19,500,000 \$ 4,750,000 \$ 15,000,000 \$ 15,000 \$ 15,000 \$ 15,000,000 \$ 15,000 \$ 15,000 \$ 15,000 \$ 15,000 \$ 15,000 \$ 15,0	2,300 1 1 1 1 1 1 1 1 2 1 1 1 1 1 LSS	Linear Foot Each Each Each Each Each Each Each Linear Foot	\$ 6000 \$ 7,4000 \$ 7,4000 \$ 7,4000 \$ 10,7000 \$ 10,7000 \$ 8,00000 \$ 1,40000 \$ 1,00000 \$ 1,000000 \$ 1,000000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,	\$ 149,500,00 \$ 7,400,00 \$ 7,400,00 \$ 10,760,00 \$ 10,760,00 \$ 3,000,00 \$ 10,760,00 \$ 10,76	2,300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot S_ Each S_ Linear Foot S_ Linear Foot S_ Linear Foot S_	70.00 20.000.00 16.000.00 18.000.00 18.000.00 20.000.00 15.000.00 15.000.00 15.000.00 10.000.00 10.000.00 10.000.00	\$ 160,000,00 \$ 20,000,00 \$ 16,000,00 \$ 18,000,00 \$ 20,000,00 \$ 20,000,00 \$ 10,000,00 \$ 10	2,000 1 1 1 1 1 1 2 1 1 1,530 1,400	Linear Foot Each Each Each Each Each Each Each Each Linear Foot Linear Foot Linear Sum Linear Sum	\$ 3000 \$ 7,5000 \$ 7,5000 \$ 7,5000 \$ 12,0000 \$ 12,00000 \$ 3,50000 \$ 2,00000 \$ 2,00000 \$ 2,00000 \$ 175000 \$ 17500	\$ 207,000,00 \$ 7,000,00 \$ 7,000,00 \$ 7,000,00 \$ 12,000,00 \$ 3,000,00 \$ 3
73. TWIC chain left force, in place, complete. 80. Law security drain left force, in place, complete. 81. Of the security drain left force, in place, complete. 82. A security of the left force, in place, complete. 83. Of select FUEC than left double saving gate, in place, complete. 84. Of select FUEC than left double saving gate, in place, complete. 85. Of select FUEC than left double saving gate, in place, complete. 85. Of select FUEC than left double saving gate, in place, complete. 85. Of select FUEC than left double saving gate, in place, complete. 85. Of select fueC than left double saving gate, in place, complete. 86. Of select fueC than left double saving gate, in place, complete. 87. Of select but security chain left double saving gate, in place, complete. 88. Singuistant point hold gate, in place, complete. 100. Concrete Keral, in place, complete. 89. Security FENCENG 88. Singuistant point hold gate, in place, complete. 89. Singuistant point hold gate, in place, complete. 80. Traffic contents, in place, complete. 80. Singuistant point hold gate, in place, complete. 80. Singuistant gate gate, in place, complete.	3,950 2,300 1 1 1 1 1 1 1 2 2 1 1,530 1,400	Linear Foot Linear Foot Each Each Each Each Each Linear Foot Linear Foot Linear Foot Linear Foot	\$ 85.00 \$ 7,000,00 \$ 7,500,00 \$ 7,500,00 \$ 4,000,00 \$ 4,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00	\$ 434.500.00 \$ 196.500.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 4,000.00 \$ 46,000.00 \$ 16,000.00 \$ 17,400.00 \$ 173,900.00 \$ 1,877,400.00	2,300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Linear Foot Linear Foot	\$ 12200 \$ 8.70000 \$ 7,30000 \$ 7,30000 \$ 10,00000 \$ 3,70000 \$ 1,00000 \$ 1,000	\$ 441,000,00 \$ 200,000,00 \$ 2700,00 \$ 2700,00 \$ 7,000,00 \$ 7,000,00 \$ 10,000,00 \$ 10,000,	2,300 1 1 1 1 1 2 1 1 1,530 1,400	Each 1	\$ 90,07 \$ 9467 \$ 7,1724 \$ 7,142,00 \$ 8,310,00 \$ 10,414,26 \$ 3,062,65 \$ 1,444,20 \$ 1,444,20 \$ 2,062,65 \$ 2,062,	\$ 365,778.50 \$ 198,741.00 \$ 7,142.00 \$ 2,142.00 \$ 3,000.66 \$ 10,414.26 \$ 3,000.66 \$ 1,520.46 \$ 1,520.46 \$ 3,000.66 \$ 1,520.46 \$	2,300 1 1 1 1 1 2 1 1 2 1 1,530 1,400	Each Each Each Each Each Each Land Each Each Each Each Land Each Land Each Land Each Land Land Land Land Land Land Land Land	\$ 75.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 9.510.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00 \$ 19.100.00	\$ 178,800,000 \$ 9,510,600 \$ 9,510,600 \$ 9,510,600 \$ 19,100,000 \$ 4,750,600 \$ 10,000,000 \$ 10,000	2,300 1 1 1 1 1 2 1 1,530 1,400	Linear Foot Each Each Each Each Each Each Each Each Linear Foot Linear Fo	\$ 65.00 \$ 7,400.00 \$ 7,400.00 \$ 7,400.00 \$ 10,750.00 \$ 10,750.00 \$ 3,600.00 \$ 10,000.00 \$ 10,000.00 \$ 1000.00 \$ 1000.00 \$ 1000.00 \$ 1000.00	\$ 148,00,00 \$ 7,40,00 \$ 7,40,00 \$ 7,40,00 \$ 10,70,00 \$ 10,70,00 \$ 16,00,00 \$ 16,00,00 \$ 14,00,00 \$ 14,00,00 \$ 14,00,00 \$ 14,00,00	2,300 1 1 1 1 1 1 1 2 2 1 1 1,530 1,400	Linear Foot S	70.00 20.000.00 16.000.00 15.000.00 30.000.00 15.000.00 20.000.00 15.000.00 15.000.00 15.000.00 15.000.00	\$ 161,000,00 \$ 20,000,00 \$ 16,000,00 \$ 16,000,00 \$ 30,000,00 \$ 40,000,00 \$ 20,000,00 \$ 12,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00 \$ 15,000,00	2,300 1 1 1 1 1 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Land Each Each Each Each Linear Foot Linear Foot Linear Foot Linear Foot	\$ 9000 \$ 75000 \$ 75000 \$ 75000 \$ 75000 \$ 120000 \$ 1200000 \$ 350000 \$ 8 00000 \$ 2 00000 \$ 2 00000 \$ 2 00000 \$ 2 00000 \$ 2 00000 \$ 2 000000 \$ 3 000000 \$ 3 000000 \$ 3 0000000 \$ 3 0000000000	\$ 207,000,00 \$ 7,000,00 \$ 7,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 1,000,00 \$ 2,000,00 \$ 2,000,00 \$ 3,000,00 \$ 3,
73. TWIC chain left force, in place, complete. 80. Law security drain left force, in place, complete. 81. Of the security drain left force, in place, complete. 82. A security of the left force, in place, complete. 83. Of select FUEC than left double saving gate, in place, complete. 84. Of select FUEC than left double saving gate, in place, complete. 85. Of select FUEC than left double saving gate, in place, complete. 85. Of select FUEC than left double saving gate, in place, complete. 85. Of select FUEC than left double saving gate, in place, complete. 85. Of select fueC than left double saving gate, in place, complete. 86. Of select fueC than left double saving gate, in place, complete. 87. Of select but security chain left double saving gate, in place, complete. 88. Singuistant point hold gate, in place, complete. 100. Concrete Keral, in place, complete. 89. Security FENCENG 88. Singuistant point hold gate, in place, complete. 89. Singuistant point hold gate, in place, complete. 80. Traffic contents, in place, complete. 80. Singuistant point hold gate, in place, complete. 80. Singuistant gate gate, in place, complete.	3.950 2.300 1 1 1 1 1 1 2 2 1 1.530 1.400	Linea Fool Each Each Each Each Linea Fool Li	\$	\$ 434.500.00 \$ 156.500.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 4,000.00 \$ 4,000.00 \$ 16,000.00 \$ 110,000.00 \$ 117,950.00 \$ 119,000.00 \$ 400.000.00	2.300 1 1 1 1 1 1 1 1 1 1 1 1 LES	Linear Foot Each Each Each Each Each Each Each Linear Foot Linear Foot	\$ 12200 \$ 8.70000 \$ 7.0000 \$ 7.0000 \$ 5.70000 \$ 5.70000 \$ 5.70000 \$ 8.70000 \$ 8.70000 \$ 1084000 \$ 1084000 \$ 1084000 \$ 1084000 \$ 1084000	\$ 441 000 00 \$ 200 000 00 \$ 200 000 00 \$ 7,000 00 \$ 7,000 00 \$ 10,000 00 \$ 10,000 00 \$ 10,000 00 \$ 10,000 00 \$ 221,00 00 \$ 221,00 00 \$ 5 20,000 00 \$ 5 40,000 00 \$ 5 40,000 00	2,300 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot 1 Each 1	\$ 90.07 \$ 8467 \$ 7.11744 \$ 7,11744 \$ 7,11745 \$ 3,042.09 \$ 10,414.26 \$ 3,062.05 \$ 7,641.03 \$ 2,144.03 \$ 2	\$ 365,778.50 \$ 198,741.00 \$ 7,142.00 \$ 2,142.00 \$ 3,000.66 \$ 10,414.26 \$ 3,000.66 \$ 1,520.46 \$ 1,520.46 \$ 3,000.66 \$ 1,520.46 \$	2,300 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Each Linear Foot Linear Sum Linear Sum Linear Sum Linear Sum	\$ 7500 \$ 95100 \$ 95100 \$ 95100 \$ 95100 \$ 191000 \$ 17500 \$ 150000 \$ 150000 \$ 17500 \$ 17500 \$ 17500 \$ 17500	\$ 174,800,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 19,500,000 \$ 4,750,000 \$ 15,000,000 \$ 15,000 \$ 15,000 \$ 15,000,000 \$ 15,000 \$ 15,000 \$ 15,000 \$ 15,000 \$ 15,000 \$ 15,0	2,300 1 1 1 1 1 1 1 1 2 1 1 1 1 1 LSS	Linear Foot Each Each Each Each Each Each Each Linear Foot	\$ 6000 \$ 7,4000 \$ 7,4000 \$ 7,4000 \$ 10,7000 \$ 10,7000 \$ 8,00000 \$ 1,40000 \$ 1,00000 \$ 1,000000 \$ 1,000000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,	\$ 149,500,00 \$ 7,400,00 \$ 7,400,00 \$ 10,760,00 \$ 10,760,00 \$ 3,000,00 \$ 10,760,00 \$ 10,76	2,300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot S_ Each S_ Linear Foot S_ Linear Foot S_ Linear Foot S_	70.00 20.000.00 16.000.00 18.000.00 18.000.00 20.000.00 15.000.00 15.000.00 15.000.00 10.000.00 10.000.00 10.000.00	\$ 160,000,00 \$ 20,000,00 \$ 16,000,00 \$ 18,000,00 \$ 20,000,00 \$ 20,000,00 \$ 10,000,00 \$ 10	2,000 1 1 1 1 1 1 2 1 1 1,530 1,400	Linear Foot Each Each Each Each Each Each Each Each Linear Foot Linear Foot Linear Sum Linear Sum	\$ 3000 \$ 7,5000 \$ 7,5000 \$ 7,5000 \$ 12,0000 \$ 12,00000 \$ 3,50000 \$ 2,00000 \$ 2,00000 \$ 2,00000 \$ 175000 \$ 17500	\$ 207,000,00 \$ 7,000,00 \$ 7,000,00 \$ 7,000,00 \$ 1,200,00 \$ 1,200,00 \$ 3,000,00 \$ 1,500,00 \$ 1,
73. TWIC chain left force, in place, complete. 80. Law security drain left force, in place, complete. 81. Of the security drain left force, in place, complete. 82. A security of the left force, in place, complete. 83. Of select FUEC than left double saving gate, in place, complete. 84. Of select FUEC than left double saving gate, in place, complete. 85. Of select FUEC than left double saving gate, in place, complete. 85. Of select FUEC than left double saving gate, in place, complete. 85. Of select FUEC than left double saving gate, in place, complete. 85. Of select fueC than left double saving gate, in place, complete. 86. Of select fueC than left double saving gate, in place, complete. 87. Of select but security chain left double saving gate, in place, complete. 88. Singuistant point hold gate, in place, complete. 100. Concrete Keral, in place, complete. 89. Security FENCENG 88. Singuistant point hold gate, in place, complete. 89. Singuistant point hold gate, in place, complete. 80. Traffic contents, in place, complete. 80. Singuistant point hold gate, in place, complete. 80. Singuistant gate gate, in place, complete.	1.550 2.300 1 1 1 1 1 1 2 2 1 1 1.530 1.400	Linea Fool Linear Fool Each Each Each Each Linear Fool	\$ _50.00 \$ _7.000.00 \$ _7.000.00 \$ _7.000.00 \$ _8.000.00 \$ _8.000	\$ 434.900.00 \$ 196.900.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 4,000.00 \$ 4,000.00 \$ 1,000	2,300 1 1 1 1 1 2 1 1 1,530 1,400 LS. LS.	Linear Foot Each Each Each Each Each Each Each Linear Foot Linear Foot Linear Foot Linear Foot Cubic Yard	\$ 122.00 \$ 8.700.00 \$ 7.800.00 \$ 7.800.00 \$ 10.000.00 \$ 3.700.00 \$ 8.700.00 \$ 1.700.00 \$ 1.8700.00 \$ 1.8700.00 \$ 1.8700.00 \$ 1.800.00 \$ 1.800.0	\$ 441 000 00 \$ 200 000 00 \$ 200 000 00 \$ 200 000 00 \$ 7300 00 \$ 10 000 00 \$ 3700 00 \$ 10 000 00 \$ 274 000 00 \$ 100 000	2,000 1 1 1 1 1 1 2 1 1 1,530 1,530 1,500 1,5	Linear Foot 1 Each 1 Linear Foot 1	\$ 9007 \$ 8467 \$ 7.11744 \$ 7.142.09 \$ 8.319.08 \$ 10.41426 \$ 7.64123 \$ 0.9446 \$ 2.907.00 \$ 4.3064.65 \$ 2.907.00 \$ 1.000.00 \$ 1.0	\$ 365,778.00 \$ 1395,741.00 \$ 7,417.64 \$ 7,442.09 \$ 8,379.09 \$ 10,414.26 \$ 10,4	2,300 1 1 1 1 1 1 2 1 1 1,530 1,400 L.S. L.S.	Linear Foot Each Each Each Each Each Each Each Each	\$ 7500 \$ 85000 \$ 85000 \$ 95000 \$ 191000 \$ 191000 \$ 191000 \$ 191000 \$ 10000 \$ 100000 \$ 100000 \$ 100000 \$ 100000 \$ 10000 \$ 10000	\$ 174,800,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 19,100,000 \$ 19,100,000 \$ 110,000,000 \$ 100,000,000 \$ 100,000,	2300 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Each Each	\$ 60.00 \$ 7400.00 \$ 7400.00 \$ 7400.00 \$ 10.750.00 \$ 3,000.00 \$ 3,000.00 \$ 4,000.00 \$ 4,000.00 \$ 5 100.00 \$ 5 100.00 \$ 1,7,000.00 \$ 5 100.00 \$ 1,7,000.00 \$ 1,000.00 \$	\$ 148,00,00 \$ 7,60,00 \$ 7,60,00 \$ 7,60,00 \$ 10,750,00 \$ 3,000,00 \$ 9,000,00 \$ 9,000,00 \$ 11,000,00 \$ 9,000,00 \$ 9,000,00 \$ 9,000,00 \$ 17,000,00 \$ 17,0	2,300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Each S	20,000 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	\$ 160,000,00 \$ 20,000,00 \$ 16,000,00 \$ 18,000,00 \$ 20,000,00 \$ 20,000,00 \$ 10,000,00 \$ 10	2,000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 30.00 \$ 7.500.00 \$ 7.500.00 \$ 7.500.00 \$ 12.000.00 \$ 12.000.00 \$ 10.000.00 \$ 2.000.00 \$ 2.000.00 \$ 2.000.00 \$ 2.000.00 \$ 1.000.00 \$ 1.000.00 \$ 2.000.00 \$ 1.000.00 \$ 1.00	\$ 207,000,00 \$ 7,000,00 \$ 7,000,00 \$ 12,000,00 \$ 12,000,00 \$ 140,000,00 \$ 140,000,00 \$ 200,000 \$ 200,0
79. TWIC chain left forces, in places, complete. 80. Low security drain left forces, in places, complete. 81. Same security drain left forces, in places, complete. 82. Low security drain left forces, in places, complete. 83. Same security drain left double swing gate, in places, complete. 83. Same security drain left double swing gate, in places, complete. 84. Same security drain left double swing gate, in places, complete. 85. Same sets THIC Crain left double swing gate, in places, complete. 86. Same sets THIC Crain left double swing gate, in places, complete. 86. Same sets the security drain left double swing gate, in places, complete. 87. Same sets the security drain left double swing gate, in places, complete. 117. Same sets the security drain left double swing gate, in places, complete. 118. Same sets and security drain left double swing gate, in places, complete. 88. Same set security drain left double swing gate, in places, complete. 189. Traffic controls, in places, complete. 89. Traffic controls, in places, complete. 89. Same and parenter markets, in places, complete. 89. Same and parenter markets, in places, complete. 80. Same and parenter markets, in places, complete.	3.950 2.300 1 1 1 1 1 1 2 2 1 1.530 1.400	Linea Fool Each Each Each Each Linea Fool Li	\$	\$ 434.500.00 \$ 196.500.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 4,000.00 \$ 4,000.00 \$ 16,000.00 \$ 110,000.00 \$ 117,950.00 \$ 119,000.00 \$ 400.000.00	2.300 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Each Linear Foot Linear Foot Linear Foot Linear Foot Cubic Yard	\$ 12200 \$ 8.70000 \$ 7.0000 \$ 7.0000 \$ 5.70000 \$ 5.70000 \$ 5.70000 \$ 8.70000 \$ 8.70000 \$ 1084000 \$ 1084000 \$ 1084000 \$ 1084000 \$ 1084000	\$ 441 000 00 \$ 200 000 00 \$ 200 000 00 \$ 7,000 00 \$ 7,000 00 \$ 10,000 00 \$ 10,000 00 \$ 10,000 00 \$ 10,000 00 \$ 221,00 00 \$ 221,00 00 \$ 5 20,000 00 \$ 5 40,000 00 \$ 5 40,000 00	2,300 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot 1 Each 1 Linear Foot 1	\$ 90.07 \$ 8467 \$ 7.11744 \$ 7,11744 \$ 7,11745 \$ 3,042.09 \$ 10,414.26 \$ 3,062.05 \$ 7,641.03 \$ 2,144.03 \$ 2	\$ 365,778.50 \$ 198,741.00 \$ 7,142.00 \$ 2,142.00 \$ 3,060.66 \$ 10,414.26 \$ 3,060.66 \$ 1,526.46 \$ 1,526.46 \$ 3,660.66 \$ 1,526.46 \$ 3,640.00 \$ 3,640.00 \$ 3,640.00	2,300 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Each Linear Foot Linear Sum Linear Sum Linear Sum Linear Sum	\$ 7500 \$ 95100 \$ 95100 \$ 95100 \$ 95100 \$ 191000 \$ 17500 \$ 150000 \$ 150000 \$ 17500 \$ 17500 \$ 17500 \$ 17500	\$ 174,800,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 19,500,000 \$ 4,750,000 \$ 15,000,000 \$ 15,000 \$ 15,000 \$ 15,000,000 \$ 15,000 \$ 15,000 \$ 15,000 \$ 15,000 \$ 15,000 \$ 15,0	2,300 1 1 1 1 1 1 1 1 2 1 1 1 1 1 LSS	Linear Foot Each Each Each Each Each Each Each Linear Foot	\$ 6000 \$ 7,4000 \$ 7,4000 \$ 7,4000 \$ 10,7000 \$ 10,7000 \$ 8,00000 \$ 1,40000 \$ 1,00000 \$ 1,000000 \$ 1,000000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,00000 \$ 1,	\$ 149,500,00 \$ 7,400,00 \$ 7,400,00 \$ 10,760,00 \$ 10,760,00 \$ 3,000,00 \$ 10,760,00 \$ 10,76	2,300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Each S	70.00 20.000.00 16.000.00 18.000.00 18.000.00 20.000.00 15.000.00 15.000.00 15.000.00 10.000.00 10.000.00 10.000.00	\$ 160,000,00 \$ 20,000,00 \$ 16,000,00 \$ 18,000,00 \$ 20,000,00 \$ 20,000,00 \$ 10,000,00 \$ 10	2,000 1 1 1 1 1 1 2 1 1 1,530 1,400	Linear Foot Each Each Each Each Each Each Each Each Linear Foot Linear Foot Linear Sum Linear Sum	\$ 3000 \$ 7,5000 \$ 7,5000 \$ 7,5000 \$ 12,0000 \$ 12,00000 \$ 3,50000 \$ 2,00000 \$ 2,00000 \$ 2,00000 \$ 175000 \$ 17500	\$ 207,000,00 \$ 7,000,00 \$ 7,000,00 \$ 7,000,00 \$ 1,200,00 \$ 1,200,00 \$ 3,000,00 \$ 1,500,00 \$ 1,
73. TWIC chain link force, in place, complete. 90. Low security chain link force, in place, complete. 91. Service in security chain link force, in place, complete. 92. Service in security chain link double saving gate, in place, complete. 93. Service in TWIC chain link double saving gate, in place, complete. 94. Service in TWIC chain link double saving gate, in place, complete. 95. Service in TWIC chain link double saving gate, in place, complete. 96. Service in TWIC chain link double saving gate, in place, complete. 97. Service in Service in Service in Service in place, complete. 97. Service in Service in Service in Service in place, complete. 197. Service in Service in Service in place, complete. 197. Traffic controls, in place, complete. 97. Traffic controls, in place, complete. 98. Service in Service in Service in place, complete. 97. Traffic controls, in place, complete. 98. Service in Service in Complete. 98. Service in S	1.550 2.300 1 1 1 1 1 1 2 2 1 1 1.530 1.400	Linea Fool Linear Fool Each Each Each Each Linear Fool	\$ _50.00 \$ _7.000.00 \$ _7.000.00 \$ _7.000.00 \$ _8.000.00 \$ _8.000	\$ 434.900.00 \$ 196.900.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 7,000.00 \$ 4,000.00 \$ 4,000.00 \$ 1,000	2,300 1 1 1 1 1 2 1 1 1,530 1,400 LS. LS.	Linear Foot Each Each Each Each Each Each Each Linear Foot Linear Foot Linear Foot Linear Foot Cubic Yard	\$ 122.00 \$ 8.700.00 \$ 7.800.00 \$ 7.800.00 \$ 10.000.00 \$ 3.700.00 \$ 8.700.00 \$ 1.700.00 \$ 1.8700.00 \$ 1.8700.00 \$ 1.8700.00 \$ 1.800.00 \$ 1.800.0	\$ 441 000 00 \$ 200 000 00 \$ 200 000 00 \$ 200 000 00 \$ 7300 00 \$ 10 000 00 \$ 3700 00 \$ 10 000 00 \$ 274 000 00 \$ 100 000	2,000 1 1 1 1 1 1 2 1 1 1,530 1,530 1,500 1,5	Linear Foot 1 Each 1 Linear Foot 1	\$ 9007 \$ 8467 \$ 7.11744 \$ 7.142.09 \$ 8.319.08 \$ 10.41426 \$ 7.64123 \$ 0.9446 \$ 2.907.00 \$ 4.3064.65 \$ 2.907.00 \$ 1.000.00 \$ 1.0	\$ 365,778.00 \$ 1395,741.00 \$ 7,417.64 \$ 7,442.09 \$ 8,379.09 \$ 10,414.26 \$ 10,4	2,300 1 1 1 1 1 1 2 1 1 1,530 1,400 L.S. L.S.	Linear Foot Each Each Each Each Each Each Each Each	\$ _7600 \$ _85000 \$ _85000 \$ _95000 \$ _95000 \$ _19000 \$ _1	\$ 174,800,000 \$ 9,510,000 \$ 9,510,000 \$ 9,510,000 \$ 19,100,000 \$ 19,100,000 \$ 110,000,000 \$ 100,000,000 \$ 100,000,	2300 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Linear Foot Each Each Each Each Each Each Each Each	\$ 60.00 \$ 7400.00 \$ 7400.00 \$ 7400.00 \$ 10.750.00 \$ 3,000.00 \$ 3,000.00 \$ 4,000.00 \$ 4,000.00 \$ 5 100.00 \$ 5 100.00 \$ 1,7,000.00 \$ 5 100.00 \$ 1,7,000.00 \$ 1,000.00 \$	\$ 148,00,00 \$ 7,60,00 \$ 7,60,00 \$ 7,60,00 \$ 10,750,00 \$ 3,000,00 \$ 9,000,00 \$ 9,000,00 \$ 11,000,00 \$ 9,000,00 \$ 9,000,00 \$ 9,000,00 \$ 17,000,00 \$ 17,0	2,300 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Each S	20,000 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	\$ 160,000,00 \$ 20,000,00 \$ 16,000,00 \$ 18,000,00 \$ 20,000,00 \$ 20,000,00 \$ 10,000,00 \$ 10	2,000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Each Each Each Each Each Each Each Each	\$ 90.00 \$ 7.500.00 \$ 7.500.00 \$ 7.500.00 \$ 12.000.00 \$ 12.000.00 \$ 10.000.00 \$ 2.000.00 \$ 2.000.00 \$ 2.000.00 \$ 1.750.00 \$ 1.75	\$ 207,000,00 \$ 7,500,00 \$ 7,500,00 \$ 7,500,00 \$ 12,000,00 \$ 12,000,00 \$ 3,500,00 \$ 16,000,00 \$ 360,000,00 \$ 260,000,00 \$ 260,000,00 \$ 260,000,00 \$ 260,000,00 \$ 360,000,00 \$ 360,000,000 \$ 360,000,00 \$ 360,000,00 \$ 360,000,00 \$ 360,000,00 \$ 360,000 \$ 360,000 \$ 360,000 \$ 360,000 \$ 360,000 \$ 360,000 \$

91.	Landscape maintenance, inclusive of all labor, materials, equipment, and incidentals for the maintenance of all plants and planted areas in oplimum growing condition and appearance throughout construction, 360 day maintenance period, the inspections, and until acceptance of the landscape planting.																												
93.	Coconut Palm (field stock), inclusive of all labor, materials, tools, equipment, and incidentals to construct and plant, in	L.S.	Lump Sum	L.S.	\$ 29,000.00	L.S.	Lump Sum	L.S.	\$ 53,600.00	L.S.	Lump Sum	LS.	\$ 56.340.18	L.S.	Lump Sum	LS.	\$ 26,400.00	L.S.	Lump Sum	L.S.	\$ 42,500,00	LS.	Lump Sum	LS.	\$80,000,00	LS.	Lump Sum	L.S.	\$ 55,000.00
	place, complete.	14	Each	\$ 4.500.00	\$ <u>63,000.00</u>	14	Each	\$ <u>3.526.00</u>	\$ 49,364.00	14	Each	\$ <u>3.450.88</u>	\$ 48.312.32	14	Each	S 4.135.00	\$ 57.890.00	14	Each	\$ <u>2.800.00</u>	\$ 39,200,00	14	Each	S 10.000.00	a140.000.00	14	Each	\$ <u>3.500.00</u>	\$ <u>49.000.00</u>
96.	Naupaia, Scaevola taccada (3 gallon), inclusive of all labor, materials, tools, equipment, and incidentals to construct and plant, in place, complete.	199	Each	\$ <u>40.00</u>	\$	199	Each	\$ <u>37.00</u>	\$	199	Each	\$ 36.97	\$ <u>7,357.03</u>	199	Each	S 35.00	\$ <u>6,965.00</u>	199	Each	\$ <u>30.00</u>	\$ <u>5,970.00</u>	199	Each	S 1,000.00	S 199,000.00	199	Each	\$ <u>40.00</u>	\$
97.	Croton Norma', Codiaeum variegatum (3 gallon), inclusive of all labor, materials, tools, equipment, and incidentals to construct and plant, in place, complete.	35	Each	s40.00	S1,400,00	35	Each	S 37.00	\$1,295,00	35	Each	\$ 36.97	\$1293.95	35	Each	\$ 35.00	S1,225,00	35	Each	\$30.00	\$1,050.00	35	Each	S_1,000,00	\$35,000.00	35	Each	\$40.00	S1,400,00
95.	Kou Cordia, subcordata (25 gallon), inclusive of all labor, materials, tools, equipment, and incidentals to construct and plant, in place, complete.	4	Each	\$ 550.00	\$ 2,200,00	4	Each	\$ 629.00	\$ 2,516.00	4	Each	\$ 616.23	\$ 2,464.92	1	Each	\$ 532.00	\$ 2.128.00	١.	Each	\$ 500.00	\$ 2,000.00	4	Each	\$ 2,000,00			Each	\$ 600.00	\$ 2.400.00
	and paint, in prace, companie.	-	Eacil	3	3220000	-	Eacil	3 620.00	32518.00	-	Eatti	s <u>616.23</u>	3	-	Cath	s532.00	3 2.128.00	-	Eauti	s	3 200000	*	Eacn	3_200000	56,000,00	-	Each	s <u>600.00</u>	32.00.00
119.	Aloe Vera 'Aloe', (3 gallon), inclusive of all labor, materials, tools, equipment, and incidentals to construct and plant, in place, complete.	30	Each	\$ <u>35.00</u>	S 1.050.00	30	Each	\$ <u>37.00</u>	S1.110.00	30	Each	\$36.97	\$ <u>1.109.10</u>	30	Each	\$ <u>35.00</u>	\$ <u>1.050.00</u>	30	Each	\$ <u>30.00</u>	\$ <u>900.00</u>	30	Each	S	\$ 6,000,00	30	Each	\$ <u>40.00</u>	\$ <u>1.200.00</u>
	LANDSCAPING				611,424.50																								
92.	Comfort Station	L.S.	Lumo Sum	L.S.	\$ 925,000.00	L.S.	Lump Sum	L.S.	\$ 566.800.00	L.S.	Lump Sum	L.S.	\$563.749.16	L.S.	Lump Sum	LS.	\$250.000.00	L.S.	Lump Sum	L.S.	\$ 400,000,00	L.S.	Lump Sum	LS.	\$500,000.00	L.S.	Lump Sum	L.S.	\$575.000.00
94.	Comfort Station metering equipment, panelboards, receptacles, lighting, branch circuiting: testing; and all appurtnant materials and work, required to construct the electrical system, in place, complete.	LS.	Lump Sum	L.S.	\$ 65,000.00	LS.	Lump Sum	L.S.	\$ 75,600.00	LS.	Lump Sum	LS.	\$ 79,539.08	LS.	Lump Sum	LS.	\$ 50,000.00	LS.	Lump Sum	LS.	\$10,000.00	LS.	Lump Sum	LS.	\$10,000.00	LS.	Lump Sum	LS.	\$ 75,000.00
98.	Field Office including Maintenance	LS.	Lump Sum	L.S.	\$ 400,000.00	L.S.	Lump Sum	L.S.	\$ 167,300.00	L.S.	Lump Sum	L.S.	\$ 381,787.60	L.S.	Lump Sum	LS.	\$ 1,500,000.00	L.S.	Lump Sum	L.S.	\$ 775,000.00	L.S.	Lump Sum	LS.	\$ 200,000.00	L.S.	Lump Sum	L.S.	\$ 250,000.00
102.	Type 1A-9P grated drop inlet with A9-P grate per DOT Highways Standard Details H-9, H-10, and H-11, inclusive of bacifull, rebar, bolts, welding, and all equipment, tools, labor, materials, and appurtnances required for construction, in place,																												
	complete.	1	Each	\$ <u>23.000.00</u>	S 23,000.00	1	Each	\$17.500.00	\$17,500.00	1	Each	\$ <u>6.968.31</u>	\$ <u>6.968.31</u>	1	Each	S 20,000.00	\$ 20,000.00	1	Each	\$ 10,000.00	S 10.000.00	1	Each	S 20,000.00	\$ 20,000.00	- 1	Each	\$ 20,000,00	\$20,000,00
106.	Post-construction security.	18	Months	\$ 40,000.00	\$720,000.00	18	Months	\$ 23,211.00	\$417,798.00	18	Months	\$ 68,469.81	\$1,232,456.58	18	Months	\$ 35,000.00	\$630,000.00	18	Months	\$ 45,000.00	\$ 810,000.00	18	Months	\$ 20,000.00	\$360,000.00	18	Months	\$ 45,000.00	\$810,000.00
107.	Archaeological monitoring	LS.	Lumo Sum	L.S.	\$ 250,000.00	L.S.	Lump Sum	L.S.	\$ 129,200.00	L.S.	Lump Sum	LS.	\$ 265,130.28	L.S.	Lump Sum	LS.	\$ 175,000.00	L.S.	Lump Sum	L.S.	\$ 360,000.00	L.S.	Lump Sum	LS.	\$ 100,000.00	LS.	Lump Sum	L.S.	\$ 250,000.00
108.	Burial Treatment	Allow.	Allowance	Allow.	\$ 1,500,000.00	Allow.	Allowance	Allow.	\$ 1,500,000.00	Allow.	Allowance	Allow.	\$ 1,500,000.00	Alow.	Allowance	Allow.	\$ 1,500,000.00	Allow.	Allowance	Allow.	\$ 1,500,000.00	Allow.	Allowance	Allow.	\$ 1,500,000.00	Allow.	Allowance	Allow.	\$ 1,500,000.00
109.	Communication with the public	LS.	Lumo Sum	L.S.	\$ 5,000.00	L.S.	Lump Sum	L.S.	\$ 139,000.00	L.S.	Lump Sum	LS.	\$ 106,052.11	L.S.	Lump Sum	LS.	\$ 25,000.00	L.S.	Lump Sum	L.S.	\$ 338,000.00	L.S.	Lump Sum	LS.	\$ 60,000.00	L.S.	Lump Sum	L.S.	\$ 125,000.00
111.	H.C.10498 Project Site Security (after completion of Part II; Job H.C. 10370)	30	Months	\$ <u>12,000.00</u>	\$ 360,000.00	30	Months	\$ <u>23,211.00</u>	\$ 696,330.00	30	Months	\$ <u>1,819.47</u>	\$ 54,584.10	30	Months	\$ _20,000.00	\$600,000.00	30	Months	\$ <u>38,000.00</u>	\$ <u>1,140,000.00</u>	30	Months	\$ <u>10,000.00</u>	\$ 300,000.00	30	Months	\$ <u>20,000.00</u>	\$ 600,000.00
	Demolsion and removal of the vertical elements of the abandoned UH Marine Buildings structures, above the flirished floor slab, including dust control measures and related incidentals, handling and disposal of non- hazardous materials, complete.	LS.	Lump Sum	L.S.	S 200.000.00	LS.	Lump Sum	L.S.	\$ <u>232,000.00</u>	LS.	Lump Sum	LS.	\$ 383,578.00	LS.	Lump Sum	LS.	\$ <u>180,000.00</u>	LS.	Lump Sum	LS.	\$ <u>176.000.00</u>	LS.	Lump Sum	LS.	\$ <u>300,000.00</u>	LS.	Lump Sum	LS.	\$ <u>250,000,00</u>
113.	(Contingent tem) Demolsh and remove existing chain-lark fence, including posts and concrete footings, baddill voids resulting from footing removal, within TMC: 1-2-25.08 (Servos), approximately 156 LF = (Contractor to verify), install new and posts with bracing and footing and connect to existing fencing.	LS.	Lump Sum	LS.	S40,000.00	LS.	Lump Sum	LS.	\$3,500.00	LS.	Lump Sum	LS.	\$ 39,769.54	LS.	Lump Sum	LS.	\$ 15,000.00	LS.	Lump Sum	LS.	\$ <u>5,200.00</u>	LS.	Lump Sum	LS.	\$	LS.	Lump Sum	LS.	\$ <u>30,000.00</u>
114.	(Contingent Item) Demolish and remove existing chain-link fence, including posts and concrete footings, backfill volids resulting from looting removal, within Department of Agriculture area, approximately 2000 LFz (Contractor to verify), and Install of new end posts with bracing and footings and occrete to existing fencing.	LS.	Lump Sum	L.S.	\$ 110,000.00	LS.	Lump Sum	L.S.	\$13,400.00	LS.	Lump Sum	LS.	\$ 39.769.54	LS.	Lump Sum	LS.	\$ 45,000.00	LS.	Lump Sum	LS.	\$23,000.00	LS.	Lump Sum	LS.	\$ 150,000,00	LS.	Lump Sum	LS.	\$ 450,000.00
115.	Temporary Access Road, inclusive of design and construction, any relocation and reconstruction, maintenance for the duration of the project, demollion and removal and all labor, materials, tools, equipment, and incidentals required to																												
	complete the work in place. OTHER	LS.	Lump Sum	L.S.	S 1.00 8,338,903.66	LS.	Lump Sum	L.S.	\$ <u>593,300,00</u>	LS.	Lump Sum	LS.	\$ 699.823.30	LS.	Lump Sum	LS.	\$ 250,000.00	LS.	Lump Sum	LS.	\$1.300,000.00	LS.	Lump Sum	LS.	\$ 350,000,00	LS.	Lump Sum	LS.	\$ 625,000,00
BID ITE	MΔ																												
JOB H.	M A C. 10502, PART I - SUM OF ALL ITEMS (1 THROUGH 119) *				\$ 409,020,141.21				\$ 159,867,612.50			*	\$ 165,255,608.23				\$ 174,812,140.00				\$ 182,918,800.00				\$ 187,857,757.00				\$ 161,625,885.00

Watts Constructors:
 Total bid amount for Part I is \$170,590,241.10.
 Calculated bid amount via the "Total" column is \$170,610,240.10.
 Calculated bid amount via the "Unit Price" column is \$170,608,815.83.

PROPOSAL SCHEDULE - PART 1 THE NEW KAPALAMA CONTAINER TERMINAL WHARF AND DREDGING HONOLULU HARBOR, OAHU, HAWAII JOB H.C. 10498

		Approx.		wit Infrastruc	ture	west Co.		aii Harbors C	onst	ructors JV
Item No.	Description	Approx. Quantity	Unit	Unit Price		Amount	Unit	Unit Price		Amount
Mobilizati	on/Demobilization									
1	Furnish all labor, equipment, and materials necessary for Project Mobilization and	LS	LS	LS	\$	12,000,000	LS	LS	\$	18,200,000
2	Demobilization (Excluding Items 2 and 3) (6% Max) Furnish all labor, equipment, and materials necessary for Mobilization and	LS	LS	LS	\$	1,500,000	LS	LS	\$	2,000,000
3	Demobilization for dredging (6% Max) Furnish all labor, equipment, and materials necessary for Mobilization and				-				-	
-	Demobilization for cast in drilled hole (CIDH) piles	LS	LS	LS	\$	1,700,000	LS	LS	\$	2,200,000
Demolition	and Removal Work									
5	Demolition, removal, handling and disposal of items as described on the plans, Inclusive of coordination with utility owners, and compliance with Federal, State, and									
	County hauling and disposal regulations; and furnishing labor, materials, tools,	LS	LS	LS	\$	15,000,000	LS	LS	\$	22,000,000
	equipment, and incidentals necessary to complete the work in place									
5A	Demolition and closures of cesspools, including the preparation of a Large Capacity Backfilling Final Completion Report	Allowance	Allowance	Allowance	\$	100,000	Allowance	Allowance	\$	100,000
5B	Towing of vessels and equipment to other berths in Honolulu Harbor if the vessels	Allowance	Allowance	Allowance	\$	6,500,000	Allowance	Allowance	\$	6,500,000
5C	are still present when the construction of H.C. 10498 begins Removal and disposal of contents in 24" abandoned sewer force main	Allowance	Allowance	Allowance	\$	500,000	Allowance	Allowance	\$	500,000
5D	Demolition and disposal of existing underground structures, that include but are not									
	limited to, abandoned sumps, existing cesspools, septic tanks, vaults and other underground improvements, excluding underground fuel tanks, including the removal									
	and disposal of the sump contents plus backfilling with Portland cement controlled low strength material (CLSM) the inclusive of furnishing labor, materials, tools,	Allowance	Allowance	Allowance	\$	50,000	Allowance	Allowance	\$	50,000
	equipment, and incidentals necessary to complete the work									
Pavement	I			ı				ı		
6	Aggregate base course for asphalt concrete pavement outside of City Right-Of-Way, in place, complete	4	CY	\$ 700.00	\$	2,800	CY	\$ 1,875.00	\$	7,500
7	Aggregate base for Portland cement concrete pavement, in place, complete Portland cement concrete pavement, inclusive of reinforcements, dowels, tie bars,	15250	CY	\$ 100.00	\$	1,525,000	CY	\$ 217.00	\$	3,309,250
0	joint materials, furnishing, placing, and removing of forms, protection devices,									
	furnishing and installing construction joints, control joints, grinding and grooving; and furnishing labor, materials, tools, equipment, and incidentals necessary to	48950	CY	\$ 350.00	\$	17,132,500	CY	\$ 624.00	\$	30,544,800
	complete the work in place				L					
10	3" thick asphalt concrete pavement, Mix IV, in place 2' wide, 4" thick asphalt pavement outside City right -of-way, Mix IV, in place	680 10	SY SY	\$ 33.00 \$ 241.00	\$	22,440 2,410	SY SY	\$ 55.00 \$ 305.00	\$	37,400 3,050
				L				L		
Site Work	Excavation and Embankment for site grading, settlement, and surcharging, inclusive	l		1	1			1	1	
	of backfill, hauling, removal and relocation of materials, equipment, tools, labor,	LS	LS	LS	\$	11,967,000	LS	LS	\$	16,600,000
12	materials, and incidentals Portland cement concrete curbs, inclusive of Portland cement concrete; furnishing,									
	placing, and removing of forms; protection devices; furnishing and placing curing materials; joints; grinding and grooving; testing; and furnishing labor, materials,	210	LF	\$ 67.00	\$	14,070	LF	\$ 430.00	\$	90,300
	tools, equipment, and incidentals									
13	Portland cement concrete curbs and gutters outside City right-of-way, inclusive of Portland cement concrete; furnishing, placing, and removing of forms; protection									
	devices; furnishing and placing curing materials; joints; grinding and grooving; testing; and furnishing labor, materials, tools, equipment, and incidentals	410	LF	\$ 75.00	\$	30,750	LF	\$ 227.00	\$	93,070
	testing, and turnishing tabor, materials, tools, equipment, and incidentals									
14	Installation, Maintenance, Monitoring, and Removal of BMP outside City Right of Way	LS	LS	LS	\$	1,500,000	LS	LS	\$	4,250,000
15	Traffic Control outside City Right of Way	LS	LS	LS	\$	20,000	LS	LS	\$	60,000
16	Stormwater Warning Placard	LS	LS	LS	\$	40,000	LS	LS	\$	60,000
Water Sys										
17	Water system appurtenances, inclusive of backfill, pipe support stabilization, air relief valves, fire hydrants, lateral and lateral connections, butterfly valves, bevel-									
	geared gate valves, water manholes, cast iron valve box, electronic markers and									
	electronic marker readers, fittings, and couplings, concrete thrust blocks, guard posts, materials for connections connecting to	LS	LS	LS	\$	2,000,000	LS	LS	\$	1,050,000
	H.C. 10502 water system, chlorination, flushing and testing, NPDES requirements and all others materials, equipment and labor required to construct the water system,									
	in place complete									
18	4-inch diameter pipe and fittings for domestic water and fire protection water system construction, inclusive of all backfill, pipe support stabilization, labor, material,									
	equipment, tools, and incidentals required to construct the pipelines, in place,	2110	LF	\$ 45.00	\$	94,950	LF	\$ 115.00	\$	242,650
19	complete 6-inch diameter pipe and fittings for domestic water and fire protection water system									
	construction, inclusive of all backfill, pipe support stabilization, labor, material, equipment, tools, and incidentals required to construct the pipelines, in place,	225	LF	\$ 135.00	\$	30,375	LF	\$ 275.00	\$	61,875
	complete									
20	8-inch diameter pipe and fittings for domestic water and fire protection water system construction, inclusive of all backfill, pipe support stabilization, labor, material,									
	equipment, tools, and incidentals required to construct the pipelines, in place,	1765	LF	\$ 45.00	\$	79,425	LF	\$ 290.00	\$	511,850
21	complete 12-inch diameter pipe and fittings for domestic water and fire protection water system				┢					
	construction, inclusive of all backfill, pipe support stabilization, labor, material, equipment, tools, and incidentals required to construct the pipelines, in place,	1680	LF	\$ 65.00	\$	109,200	LF	\$ 345.00	\$	579,600
	complete									
22	Pier 40F waterline installation of 12-inch diameter waterline and appurtenances, inclusive of all backfill, pipe support stabilization, labor, material, equipment, tools,									· <u> </u>
	and incidentals required to construct the pipelines; and coordination with Young	LS	LS	LS	\$	25,000	LS	LS	\$	15,000
	Brothers and BWS									
23	PTW vault and appurtenances for domestic water system construction, inclusive of all									
	fittings, backflow preventer, gate valve, valve support, copper tubing, PVC drainage pipe, hatch cover & frame, ladder rung, and all material, equipment, tools and	7	EA	\$ 18,500.00	\$	129,500	EA	\$ 10,000.00	\$	70,000

		•							
24	Water main connections to existing BWS main, including coordination with BWS, notification of BWS customers, and inclusive of all fittings, concrete blocks, backfill,								
	pipe support stabilization, labor, material, equipment, tools and incidentals required for the water main connections, cutting and plugging of BWS water lines	LS	LS	LS	\$ 65,000	LS	LS	\$	115,000
24A	16-inch diameter DIP, CL S3 waterline and fittings, and coupling, inclusive of all backfill, pipe support stabilization, cathodic protection, restoration of existing pavement, labor, material, equipment, tools, and incidentals required to construct the pipelines, in place, complete	820	LF	\$ 600.00	\$ 492,000	LF	\$ 3,300.00	\$	2,706,000
24B	HDPE Water System by HDD; 30" HDPE casing containing 20" diameter HDPE carrier pipe, inclusive of HDPE and end seals, restoration of existing pavement, labor, material, equipment, tools, and incidentals required to construct the pipelines, in place, complete	3000	LF	\$ 2,300.00	\$ 6,900,000	LF	\$ 2,800.00	\$	8,400,000
24C	Alternative Parking Arrangement for Hawaii Stevedores, Inc. Employees	Allowance	Allowance	Allowance	\$ 1,500,000	Allowance	Allowance	\$	1,500,000
24D	Provide training to State personnel on the maintenance of the Cathodic protection system	LS	LS	LS	\$ 10,000	LS	LS	\$	25,000
24E	Operation and maintenance of Cathodic Protection System for 16-inch DIP for 1 year	LS	LS	LS	\$ 5,000	LS	LS	\$	20,000
24F	Operation and maintenance of Cathodic Protection System for 16-inch DIP for 1 additional year	LS	LS	LS	\$ 5,000	LS	LS	\$	20,000
24G	BWS Water System Facility Charge	Allowance	Allowance	Allowance	\$ 2,400,000	Allowance	Allowance	\$	2,400,000
24H	2" Copper tube and fittings for domestic water lateral construction, inclusive of couplings, gate, valve, valve support, backflow preventer, water meter, service saddle, backfill, labor, material, equipment, tools, restoration of existing pavement, and incidentals required to construct the pipe lines, in place, complete	850	LF	\$ 60.00	\$ 51,000	LF	\$ 300.00	s	255,000
25	Trench excavation for water, drainage and electrical utilities, inclusive of removal and disposal of soft material, stockpiling of excavated material suitable to be used as backfill, and furnishing all labor, materials, equipment, tools and incidentals to complete the work	LS	LS	LS	\$ 15,000,000	LS	LS	\$	5,400,000
25A	Test excavations and additional soil stabilization for soft and yielding areas encountered during trench excavation for water, drainage, and electrical utilities, inclusive of the removal and disposal of soft material, installation of geotextile fabric and/or geogrid, and gravel, and furnishing all labor, materials, equipment, tools and incidentals to provide additional soil stabilization required by the State's Geotechnical Engineer		Allowance	Allowance	\$ 1,000,000	Allowance	Allowance	\$	1,000,000
Drainage									
26	7' x 4' box culvert, inclusive of backfill, pipe support stabilization, 7' x 4' reinforced concrete box culvert, connections, trench repaving, and all equipment, tools, labor, materials, and appurtenances required for construction, in place, complete.	280	LF	\$ 7,000.00	\$ 1,960,000	LF	\$ 10,500.00	\$	2,940,000
27	3' x 5' box culvert, inclusive of backfill, pipe support stabilization, 3' x 5' reinforced concrete box culvert, connections, trench repaving, and all equipment, tools, labor, materials, and appurtenances required for construction, in place, complete.	245	LF	\$ 5,000.00	\$ 1,225,000	LF	\$ 12,500.00	\$	3,062,500
28	24" wide trench train, inclusive of backfill, pipe support stabilization, rebar, bolts, grating, and all equipment, tools, labor, materials, and appurtenances required for construction.	2,315	LF	\$ 1,500.00	\$ 3,472,500	LF	\$ 1,850.00	\$	4,282,750
29	Trench drain inlet structure at trench drains, inclusive of backfill, pipe support stabilization, rebar, bolts, welding, and all equipment, tools, labor, materials, and appurtenances required for construction, in place, complete	1	EA	\$ 30,000.00	\$ 30,000	EA	\$ 35,000.00	\$	35,000
30	prain inlet structure at reinforced concrete pipe, inclusive of backfill, pipe support stabilization and all equipment, tools, labor, materials and appurtenances required for construction, in place, complete	12	EA	\$ 53,000.00	\$ 636,000	EA	\$ 50,000.00	s	600,000
31	Catch Basin structure at reinforced concrete pipe, inclusive of backfill, pipe support stabilization and all equipment, tools, labor, materials and appurtenances required for construction, in place, complete	4	EA	\$ 22,000.00	\$ 88,000	EA	\$ 20,000.00	\$	80,000
31A	Overflow Basin structure at reinforced concrete pipe, inclusive of backfill, pipe support stabilization and all equipment, tools, labor, materials and appurtenances required for construction, in place, complete	Allowance	Allowance	Allowance	\$ 100,000	Allowance	Allowance	\$	100,000
32	Manhole, inclusive of all equipment, too ls, labor, materials and appurtenances	10	EA	\$ 50,000.00	\$ 500,000	EA	\$ 75,000.00	\$	750,000
33	required for construction, in place, complete 6" PVC pip e and fitting inclusive of backfill, pipe support stabilization, cleanout and all equipment, tools, labor, materials and appurtenances required for construction	430	LF	\$ 60.00	\$ 25,800	LF	\$ 174.00	\$	74,820
34	3" PVC pipe and fitting inclusive of backfill, pipe support stabilization, and all equipment, tools, labor, materials and appurtenances required for construction	150	LF	\$ 15.00	\$ 2,250	LF	\$ 156.00	s	23,400
35	18" reinforced concrete pipe, inclusive of backfill, pipe support stabilization and all equipment, tools, labor, materials and appurtenances required for construction, in place, complete	1,830	LF	\$ 140.00	\$ 256,200	LF	\$ 533.00	s	975,390
36	24" reinforced concrete pipe, inclusive of backfill, pipe support stabilization and all equipment, tools, labor, materials and appurtenances required for construction, in place, complete	1,030	LF	\$ 200.00	\$ 206,000	LF	\$ 521.00	s	536,630
37	36" reinforced concrete pipe, inclusive of backfill, pipe support stabilization and all equipment, tools, labor, materials and appurtenances required for construction, In place, complete	730	LF	\$ 370.00	\$ 270,100	LF	\$ 754.00	s	550,420
38	prace, comprete Bir High Density Polyethylene pipe, inclusive of backfill, pipe support stabilization, and all equipment, tools, labor, materials and appurtenances required for construction, in place, complete	180	LF	\$ 350.00	\$ 63,000	LF	\$ 215.00	s	38,700
39	24" Ductile Iron Pipe, inclusive of backfill, pipe support stabilization, and all equipment, tools, labor, materials and appurtenances required for construction, in	30	LF	\$ 360.00	\$ 10,800	LF	\$ 613.00	s	18,390
40	place, complete Transition structure, inclusive of backfill, stabilization layer and all equipment, tools, labor, materials and appurtenances required for construction, in place, complete	1	EA	\$ 250,000.00	\$ 250,000	EA	\$ 225,000.00	s	225,000
40A	Junction structure, inclusive of backfill, stabilization layer all equipment, tools, labor, materials and appurtenances required for construction, in place, complete	1	EA	\$ 800,000.00	\$ 800,000	EA	\$ 535,000.00	\$	535,000
41	CDS stormwater treatment unit or approved equal at Piers 41 and 40F, inclusive of backfill, stabilization layer and all equipment, tools, labor, materials and appurtenances required for construction	2	EA	\$ 75,000.00	\$ 150,000	EA	\$ 185,000.00	s	370,000
41A	appurtenances required for construction Jellyfish filter system or approved equal at Piers 41 and 40F, inclusive of backfill, stabilization layer and all equipment, tools, labor, materials and appurtenances required for construction	2	EA	\$ 310,000.00	\$ 620,000	EA	\$ 290,000.00	s	580,000
41B	Maintenance of CDS stormwater treatment units at Piers 41 and 40F for 1 year	LS	LS	LS	\$ 11,000	LS	LS	\$	25,000
41C	Maintenance of CDS stormwater treatment units at Piers 41 and 40F for 1 additional year.	LS	LS	LS	\$ 11,000	LS	LS	\$	25,000
41D	Maintenance of Jellyfish filters at Piers 41 and 40F for 1 year.	LS	LS	LS	\$ 20,000	LS	LS	\$	25,000
41E	Maintenance of Jellyfish filters at Piers 41 and 40F for 1 additional year.	LS	LS	LS	\$ 20,000	LS	LS	\$	25,000

42	Highland Tank stormwater treatment unit or approved equal at Piers 42 and 43, including associated two drainage manholes, two manways, and four access manways, inclusive of backfill, stabilization layer and all equipment, tools, labor, materials and appurtenances required for construction	LS	LS	LS	s	1,500,000	LS	LS	\$	3,650,000
42A	Jellyfish filter system or approved equal at Piers 42 and 43, including associated four drainage manholes and one access manhole, inclusive of backfill, stabilization layer and all equipment, tools, labor, materials and appurtenances required for construction	LS	LS	LS	\$ 3	3,000,000	LS	LS	\$	3,200,000
42B	Maintenance of Highland Tank stormwater treatment units at Piers 42 and 43 for 1	LS	LS	LS	\$	31,000	LS	LS	\$	25,000
42C	year Maintenance of Highland Tank stormwater treatment units at Piers 42 and 43 for 1 additional year	LS	LS	LS	\$	31,000	LS	LS	\$	25,000
42D	Maintenance of Jellyfish filters at Piers 42 and 43 for 1 year	LS	LS	LS	s	42,000	LS	LS	s	25,000
42E	Maintenance of Jellyfish filters at Piers 42 and 43 for 1 additional year	LS	LS	LS	\$	42,000	LS	LS	\$	25,000
42F	SWTD manufacturer training and onsite installation supervision	Allowance	Allowance	Allowance	\$	20,000	Allowance	Allowance	\$	20,000
Striping &	Fencing									
43	TWIC chain link fence	515	LF	\$ 130.00	\$	66,950	LF	\$ 100.00	\$	51,500
43A 44	TWIC chain link fence on concrete k-rails Pavement markings	361 LS	LF LS	\$ 230.00 LS	\$ \$	83,030 85,000	LF LS	\$ 250.00 LS	\$	90,250 300,000
44	ravement markings	LS	LS	LS	3	85,000	LS	LS	3	300,000
Dredging (Pier 40F-41) Dredge/Excavate Material Above +1.9 &			ı						
45	place for Upland Disposal D101/F110	5,500	CY	\$ 100.00	\$	550,000	CY	\$ 185.00	\$	1,017,500
46	Dredge/Excavate Material Below +1.9 & place for Upland Disposal D103/F110	16,500	CY	\$ 100.00	\$	1,650,000	CY	\$ 165.00	\$	2,722,500
47	Dredge/Place Non-Coralline Deposits @	21,000	CY	\$ 50.00	s	1,050,000	CY	\$ 46.00	\$	966,000
48	Snug Harbor below -8' D102/F102 Dredge/Place Non-Coralline Deposits @	41,000	CY	\$ 50.00	s :	2.050.000	CY		\$	
49	Snug Harbor below +10' Dl02/Fl04 Dredge/Place Non-Coralline Deposits @	41,000	CY			2,050,000	CY		3	2,255,000
	Upland Disposal Dl02/F110	3,000	CY	\$ 100.00	\$	300,000	CY	\$ 167.00	\$	501,000
50	Dredge/Place Coralline Deposits @ Snug Harbor from elevation -8' to +10' D104/F103	30,000	CY	\$ 50.00	\$	1,500,000	CY	\$ 59.00	\$	1,770,000
				L	\$	7,100,000			\$	9,232,000
Dredging (51	Pier 42-43) Dredge/Excavate Material Above +1.9 & place @ Upland Disposal D105,	1		I .	Ι.					
	D109/F110	15,000	CY	\$ 100.00	\$	1,500,000	CY	\$ 174.00	\$	2,610,000
52	Dredge/Place Non-Coralline Deposits Offshore Disposal D106, D108, D110, D112/F109	100,000	CY	\$ 50.00	\$	5,000,000	CY	\$ 38.00	\$	3,800,000
53	Dredge/Place Coralline Deposits, Process @ Snug Harbor to be placed to +10' D107/F103	10,000	CY	\$ 50.00	\$	500,000	CY	\$ 75.00	\$	750,000
54	Dredge/Place Coralline Deposits, Process@ Drydock Area to +10'D107, D111/F106	10,000	CY	\$ 50.00	\$	500,000	CY	\$ 51.00	\$	510,000
55	Dredge/Place Coralline Deposits, Process @ Snug Harbor SurchargeD107/F105	-								
33		65,000	CY	\$ 50.00	\$	3,250,000	CY	\$ 65.00	\$	4,225,000
56	Dredge/Place Coralline Deposits @ 40F to +8' D111/F107	4,000	CY	\$ 50.00	\$	200,000	CY	\$ 29.00	\$	116,000
57	Dredge/Place Coralline Deposits @ 40F Surcharge D111/F108	2,000	CY	\$ 50.00	\$	100,000	CY	\$ 62.00	\$	124,000
58	Dredge/Place Coralline Deposits, Process@ Rail Slip Surcharge D111/F106	5,800	CY	\$ 50.00	\$	290,000	CY	\$ 70.00	\$	406,000
59	Dredge/Place Coralline Deposits, Process & Offshore Disposal D111/F109	19,000	CY	\$ 50.00	\$	950,000	CY	\$ 113.00	\$	2,147,000
60 60A	Remove Surcharge and Dispose Off Shore 0113, 0114, D115/F109 Handling, removal, characterization, profiling, hauling, and disposal of dredge debris	73,000	CY	\$ 30.00		2,190,000	CY	\$ 23.00	\$	1,679,000
	containing fuel, oil, or other substances	1,500	Ton	\$ 130.00	\$	195,000	Ton	\$ 397.00	\$	595,500
62	Armor stone and Quarry Run Gravel/ Recycled Concrete Debris R101	1,500 5,800	Ton	\$ 300.00 \$ 100.00	\$ \$	450,000 580,000	Ton	\$ 206.00 \$ 110.00	\$ \$	309,000 638,000
63	Wick Drains	170,000	Ton LF	\$ 100.00	\$	680,000	Ton LF	\$ 110.00	\$	1,360,000
64	Settlement Monitoring and Instrumentation	LS	LS	\$ 4.00 LS	\$	550,000	LS	\$ 8.00 LS	\$	145,000
64A	In-water BMPs, in place complete	LS	LS	LS		1.100.000	LS	LS	\$	250,000
64B	Water sampling in accordance with Section 401 WQC and AMAP	LS	LS	LS	\$	500,000	LS	LS	\$	750,000
64C	EPA SOODMDS Standard Conditions	LS	LS	LS	\$	500,000	LS	LS	\$	115,000
.					\$ 19	9,035,000			\$	20,529,500
Dredging (65	Snug Harbor) Dredge/Place Non-Coralline Deposits Upland Disposal 0116/F110	30,000	CY	\$ 100.00	\$	3,000,000	CY	\$ 140.00	\$	4,200,000
65A	Construct Rubble dike at Snug Harbor, in place complete	LS	LS	LS	\$	400,000	CY	LS	\$	250,000
Structural	1	ı		I	\$:	3,400,000		Ì	\$	4,450,000
66	Construct extension with access manhole to existing City and County of Honolulu 10x4 box culvert at Pier 40F, with access manhole inclusive of plain concrete, precast concrete, reinforcement, joint materials, connections, excavation and backfill including 2-foot thick layer of gravel and geogrid wrapped in filter fabric, furnishing, placing, and removing of forms, protection devices, furnishing and installing construction joints, grinding and grooving; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place	10	LF	\$ 52,000.00	\$	520,000	LF	\$ 175,000.00	\$	1,750,000
66A	Preconstruction Structural Investigation (interior/underwater survey) and Alignment	LS	LS	LS	\$	43,000	LS	LS	\$	55,000
66B	Survey of the CCH existing box culvert at Pier 40F Additional work to or for CCH box culvert at Pier 40F, as directed by the State								\$	
67	Construct Precast Bridge planks over existing City and County of Honolulu 10' x 4'	Allowance	Allowance	Allowance	3	5,000,000	Allowance	Allowance	Þ	5,000,000
67	Construct Precast Bridge planks over existing City and County of Honolulu 10 x 4 box culvert at Pier 40F, inclusive of precast concrete deck planks, reinforcement, joint materials, connections, furnishing, placing, and removing of forms, protection devices, furnishing and installing construction joints, grinding and grooving; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place	4850	SF	\$ 200.00	\$	970,000	SF	\$ 111.00	\$	538,350
68	Construct cast-in-place elements for Bridging Structure over existing City and County of Honolulu 10' x 4' box culvert at Pier 40F, inclusive of cast-in-place concrete slabs, grade beams, and topping, reinforcement, joint materials, connections, excavation and backfill, furnishing, placing, and removing of forms, protection devices, furnishing and installing construction joints, grinding and incidentals necessary to complete the work in place	760	CY	\$ 1,500.00	\$	1,140,000	CY	\$ 900.00	s	684,000
69	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to furnish, coat, and Install Bulkhead Walls at Pier 40F-41 including closure bulkhead at west side of Pier 40F, inclusive of steel sheet wall, king piles, double corrosion protected tie-rods, wales, joint sealing, and all connections	1,395	LF	\$ 14,000.00	\$ 19	9,530,000	LF	\$ 16,000.00	\$	22,320,000
70	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to furnish, coat, and Install Bulkhead Walls at Pier 42-43, inclusive of steel sheet wall, king piles, double corrosion protected tie-rods, wales, joint sealing, and all connections	1,870	LF	\$ 18,000.00	\$ 33	3,660,000	LF	\$ 20,000.00	\$	37,400,000

71	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to furnish, coat, and Install Bulkhead Walls at west end of Pier 43 (bridge abutment protection wall), inclusive of steel sheet wall king piles, double corrosion protected tie- rods, wales, joint sealing, and all connections	90	LF	\$ 25,000.00	s	2,250,000	LF	\$ 34,000.00	\$	3,060,000
72	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to furnish, coat, and Install Steel sheet piling supports at Pier 40F Bridging Structure, inclusive of steel sheet wall, king piles, joint sealing, and all connections	440	LF	\$ 4,000.00	s	1,760,000	LF	\$ 7,100.00	\$	3,124,000
73	Construct Concrete Bulkhead Capping Beam at Piers 40F-41, inclusive of concrete, reinforcement, joint materials, connections, excavation and backfill, furnishing, placing, curing, and removing of forms, protection devices, furnishing and installing construction joints, grinding and grooving; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place	4,300	CY	\$ 2,500.00	\$	10,750,000	CY	\$ 948.00	\$	4,076,400
74	Construct concrete connection between Pier 40F and Pier 40E, inclusive of expansion joint, concrete knee braces, slab, concrete, reinforcement, joint materials, connections, excuartion and backfill, furnishing, placing, curing, and removing of forms, protection devices, furnishing and installing construction joints, grinding and grooving; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work In place	23	CY	\$ 6,500.00	\$	149,500	CY	\$ 25,000.00	s	575,000
75	Construct Concrete Deadman at Piers 40F-41, inclusive of concrete, reinforcement, joint materials, connections, excavation and backfill, furnishing, placing, curing, and removing of forms, protection devices, furnishing and installing construction joints, grinding and grooving; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place	5400	CY	\$ 1,600.00	\$	8,640,000	CY	\$ 789.00	\$	4,260,600
76	Construct Concrete Bulkhead Capping Beam at Piers 42-43, inclusive of concrete, reinforcement, joint materials, connections, excavation and backfill, furnishing, placing, curing, and removing of forms, protection devices, furnishing and installing construction Joints, grinding and grooving; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place	6,130	CY	\$ 2,500.00	\$	15,325,000	CY	\$ 958.00	\$	5,872,540
77	Construct Waterside Crane Beams at Piers 42-43, inclusive of concrete, reinforcement, joint materials, connections, excavation and backfill, furnishing, placing, curing and removing of forms, protection devices, furnishing and installing construction joints, grinding and grooving; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place	4,830	CY	\$ 1,600.00	s	7,728,000	CY	\$ 1,072.00	\$	5,177,760
78	Construct Landside Crane Beams at Piers 42-43, inclusive of concrete, reinforcement, joint materials, connections, excavation and backfill, furnishing, placing, curing, and removing of forms, protection devices, furnishing and instaling construction joints, grinding and grooving; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place	11,000	CY	\$ 1,600.00	\$	17,600,000	CY	\$ 899.00	\$	9,889,000
79	Construct Concrete Tie-Beams between landside and waterside ship-to-shore crane beams at Piers 42-43, inclusive of concrete, reinforcement, joint materials, connections, excavation and backfill, furnishing, placing, curing, and removing of forms, protection devices, furnishing and installing construction joints, grinding and grooving; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place.	1,860	CY	\$ 4,700.00	s	8,742,000	CY	\$ 2,507.00	\$	4,663,020
79A	Reinforced cast-in-place concrete slab at Piers 42-43 heavy lift area	2,250	CY	\$ 1,400.00	\$	3,150,000	CY	\$ 613.00	\$	1,379,250
80	Furnish all labor, equipment, materials, testing, and incidentals necessary to complete the work in place, to construct 36" reinforced concrete CIDH Piles at Piers 42-43	13,050	LF	\$ 600.00	s	7,830,000	LF	\$ 800.00	\$	10,440,000
81	Furnish all labor, equipment, materials, testing, and incidentals necessary to complete the work in place complete, to construct 48" reinforced concrete CIDH Piles at Piers 42-43	14,025	LF	\$ 1,000.00	\$	14,025,000	LF	\$ 1,250.00	\$	17,531,250
82	Furnish all labor, equipment, materials, testing, and incidentals necessary to complete the work in place complete, to construct 48" reinforced concrete CIDH Piles at Piers 40F-41	8,970	LF	\$ 1,000.00	s	8,970,000	LF	\$ 1,400.00	\$	12,558,000
83	Furnish all labor, equipment, materials, testing and incidentals, to construct 48" reinforced concrete CIDH foundations for HMLPs	360	LF	\$ 1,000.00	\$	360,000	LF	\$ 1,200.00	\$	432,000
84	Ferninoted Concrete CLIDH iominations for insults. Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 42-43 inclusive of training and O&M manual	LS	LS	LS	s	5,000,000				1,850,000
Item No.	Di-ti			133	3	5,000,000	LS	LS	\$	-,,
	Description	Approx.	Unit	Unit Price		3,000,000 Amount	Unit	LS Unit Price	\$	Amount
85	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual	Approx. Quantity	Unit						\$	
85 85A	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual Operation and maintenance of cathodic protection system for a period of one	Quantity		Unit Price		Amount	Unit	Unit Price		Amount
	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual	Quantity	LS	Unit Price	\$	Amount 20,000	Unit	Unit Price	\$	Amount 1,725,000
85A	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie-rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual Operation and maintenance of cathodic protection system for a period of one (1) year from the date of acceptance of the final test report Additional operation and maintenance of cathodic protection system for an additional one (1) year after and beyond the initial first year of operation and maintenance Implementation of Marine Observer and In-Water Construction Protocol for	Quantity LS LS	LS LS	Unit Price LS LS	\$	Amount 20,000 47,000	Unit LS LS	Unit Price LS LS	s	Amount 1,725,000 30,000
85A 85B 85C 85D	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual Operation and maintenance of cathodic protection system for a period of one (1) year from the date of acceptance of the final test report Additional operation and maintenance of cathodic protection system for an additional one (1) year after and beyond the initial first year of operation and maintenance Implementation of Marine Observer and In-Water Construction Protocol for Endangered Species Acoustic monitoring program for sheet pile and king pile driving	LS LS LS LS Allowance	LS LS LS Allowance	Unit Price LS LS LS LS Allowance	\$ \$ \$ \$	Amount 20,000 47,000 47,000 1,300,000 500,000	Unit LS LS LS LS Allowance	Unit Price LS LS LS LS Allowance	\$ \$ \$ \$	Amount 1,725,000 30,000 30,000 1,000,000 500,000
85A 85B 85C 85D 85E	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual Operation and maintenance of cathodic protection system for a period of one (1) year from the date of acceptance of the final test report Additional operation and maintenance of cathodic protection system for an additional one (1) year after and beyond the initial first year of operation and maintenance Implementation of Marine Observer and In-Water Construction Protocol for Endangered Species	LS LS LS Allowance Allowance	LS LS LS LS	Unit Price LS LS LS LS Allowance Allowance	\$ \$ \$	Amount 20,000 47,000 47,000 1,300,000 500,000 6,000,000	Unit LS LS LS LS	Unit Price LS LS LS LS Allowance Allowance	s s s	Amount 1,725,000 30,000 1,000,000 500,000 6,000,000
85A 85B 85C 85D	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual Operation and maintenance of cathodic protection system for a period of one (1) year from the date of acceptance of the final test report Additional operation and maintenance of cathodic protection system for an additional one (1) year after and beyond the initial first year of operation and maintenance Implementation of Marine Observer and In-Water Construction Protocol for Endangered Species Acoustic monitoring program for sheet pile and king pile driving Sheet pile and king pile driving energy attenuator Retaining wall with fence along Aukit Street outside city Right-OF-Way Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to construct, and install 302.4 lb/yd Crane Rails at Piers 42-43	LS LS LS LS Allowance	LS LS LS Allowance Allowance	Unit Price LS LS LS LS Allowance Allowance	\$ \$ \$ \$ \$ \$ \$	Amount 20,000 47,000 47,000 1,300,000 500,000	Unit LS LS LS LS Allowance Allowance	Unit Price LS LS LS LS Allowance Allowance	\$ \$ \$ \$ \$	Amount 1,725,000 30,000 30,000 1,000,000 500,000 6,000,000 373,125
85A 85B 85C 85D 85E 86	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual Operation and maintenance of cathodic protection system for a period of one (1) year from the date of acceptance of the final test report Additional operation and maintenance of cathodic protection system for an additional one (1) year after and beyond the initial first year of operation and maintenance Implementation of Marine Observer and In-Water Construction Protocol for Endangered Species Acoustic monitoring program for sheet pile and king pile driving Sheet pile and king pile driving energy attenuator Retaining wall with fence along Auki Street outside city Right-Of-Way Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to construct, and install 302.4 lb/yd Crane Rails at Piers 42-43 includes rails, clips, base plates, and grout Furnish all labor, equipment, materials, and incidentals necessary to complete the	LS LS LS Allowance 199	LS LS LS Allowance LF	Unit Price LS LS LS LS Allowance Allowance \$ 1,300.00	\$ \$ \$ \$ \$	Amount 20,000 47,000 47,000 1,300,000 500,000 6,000,000 258,700	Unit LS LS LS Allowance LF	Unit Price LS LS LS LS Allowance Allowance \$ 1,875.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount 1,725,000 30,000 1,000,000 500,000 6,000,000
85A 85B 85C 85D 85E 86 87	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual Operation and maintenance of cathodic protection system for a period of one (1) year from the date of acceptance of the final test report Additional operation and maintenance of cathodic protection system for an additional one (1) year after and beyond the initial first year of operation and maintenance Implementation of Marine Observer and In-Water Construction Protocol for Endangered Species Acoustic monitoring program for sheet pile and king pile driving Sheet pile and king pile driving energy attenuator Retaining wall with fence along Aukis Street outside city Right-Of-Way Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to construct, and install 302.4 lbyd Crane Rails at Piers 42-43 includes rails, clips, base plates, and grout	LS LS LS Allowance Allowance 199 3,405	LS LS LS Allowance Allowance LF	LS LS LS LS Allowance Allowance \$ 1,300.00 \$ 850.00	\$ \$ \$ \$ \$	Amount 20,000 47,000 47,000 1,300,000 500,000 6,000,000 258,700 2,894,250	Unit LS LS LS Allowance LF LF	Unit Price LS LS LS Allowance Allowance \$ 1,875.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount 1,725,000 30,000 30,000 1,000,000 500,000 373,125 2,792,100
85A 85B 85C 85D 85E 86 87	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie-rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual Operation and maintenance of cathodic protection system for a period of one (1) year from the date of acceptance of the final test report Additional operation and maintenance of cathodic protection system for an additional one (1) year after and beyond the initial first year of operation and maintenance Implementation of Marine Observer and In-Water Construction Protocol for Endangered Species Acoustic monitoring program for sheet pile and king pile driving Sheet pile and king pile driving energy attenuator Retaining wall with fence along Auiki Street outside city Right-Of-Way Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to construct, and install 302.4 lbyd Crane Rails at Piers 42-43 includes rails, clips, base plates, and grout Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to construct and install crane rail stops at Piers 42-43 Furnish and Install Safety Ladders at Piers 40F-41, inclusive of material, installation, connections, protection devises, furnishing labor, materials, tools, equipment, and	LS LS LS Allowance Allowance 199 3,405	LS LS LS Allowance LF LF EA	Unit Price LS LS LS LS Allowance Allowance \$ 1,300.00 \$ 850.00 \$ 20,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount 20,000 47,000 47,000 1,300,000 500,000 6,000,000 2,887,00 80,000	Unit LS LS LS LS Allowance LF LF EA	Unit Price LS LS LS LS Allowance Allowance \$ 1,875.00 \$ 820.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount 1,725,000 30,000 30,000 1,000,000 500,000 6,000,000 373,125 2,792,100 100,000
85A 85B 85C 85D 85E 86 87 88 89	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual Operation and maintenance of cathodic protection system for a period of one (1) year from the date of acceptance of the final test report Additional operation and maintenance of cathodic protection system for an additional one (1) year after and beyond the initial first year of operation and maintenance Implementation of Marine Observer and In-Water Construction Protocol for Endangered Species Acoustic monitoring program for sheet pile and king pile driving Sheet pile and king pile driving energy attenuator Retaining wall with fence along Aukik Street outside city Right-Of-Way Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to construct, and install 302.4 lb/yd Crane Rails at Piers 42-43 includes rails, clips, base plates, and grout Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to construct and install crane rail stops at Piers 42-43 Furnish and Install Safety Ladders at Piers 40F-41, inclusive of material, installation, connections, protection devises, furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place Furnish and Install Safety Ladders at Piers 42-43, inclusive of material, installation, connections, protection devices, furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place Furnish and Install Safety Ladders at Piers 42-43, inclusive of material, installation, connections, protection devices, furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place Furnish and Install Safety Ladders at Piers 42-43, inclusive of material, installation, connections, protection devices, furnishing labor, materials, tools, equipment, and	LS LS LS Allowance Allowance 7 10 LS	LS LS LS Allowance Allowance LF LF EA EA	Unit Price LS LS LS Allowance Allowance \$ 1,300.00 \$ 8,000.00 \$ 8,000.00 LS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount 20,000 47,000 47,000 1,300,000 500,000 6,000,000 2,894,250 80,000 56,000 80,000 1,300,000 1,300,000	Unit LS LS LS Allowance Allowance LF LF EA EA EA	Unit Price LS LS LS LS Allowance Allowance \$ 1,875.00 \$ 25,000.00 \$ 45,000.00 \$ 40,000.00 LS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount 1,725,000 30,000 30,000 1,000,000 500,000 6,000,000 373,125 2,792,100 100,000 400,000 750,000
85A 85B 85C 85D 85E 86 87 88	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to install Cathodic protection system for sheetpiles, tie- rods, and all of their components at Piers 40F-41 inclusive of training and O&M manual Operation and maintenance of cathodic protection system for a period of one (1) year from the date of acceptance of the final test report Additional operation and maintenance of cathodic protection system for an additional one (1) year after and beyond the initial first year of operation and maintenance Implementation of Marine Observer and In-Water Construction Protocol for Endangered Species Acoustic monitoring program for sheet pile and king pile driving Sheet pile and king pile driving energy attenuator Retaining wall with fence along Auiki Street outside city Right-Of-Way Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to construct, and install 302.4 lbyd Crane Rails at Piers 42-43 includes rails, clips, base plates, and grout Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place to construct and install crane rail stops at Piers 42-43 Furnish and Install Safety Ladders at Piers 40F-41, inclusive of material, installation, connections, protection devices, furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place Furnish and Install Safety Ladders at Piers 42-43, inclusive of material, installation, connections, protection devices, furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work in place	LS LS LS Allowance 199 3,405 4 7	LS LS LS Allowance Allowance LF LF EA EA	Unit Price LS LS LS Allowance Allowance \$ 1,300.00 \$ 850.00 \$ 20,000.00 \$ 8,000.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Amount 20,000 47,000 47,000 1,300,000 500,000 6,000,000 258,700 2,894,250 80,000 56,000 80,000	Unit LS LS LS Allowance Allowance LF LF EA EA	Unit Price LS LS LS LS Allowance Allowance \$ 1,875.00 \$ 25,000.00 \$ 45,000.00	s s s s s s s s s s s s s s s s s s s	Amount 1,725,000 30,000 30,000 1,000,000 500,000 6,000,000 373,125 2,792,100 100,000 315,000 400,000

93	Furnish all labor, equipment, materials, and incidentals necessary to complete the work In place, to install fender system at Piers 40F-41, including bolts, UHMW-PE rub strips, and appurtenances, complete as specified and shown	LS	LS	LS	\$	1,025,000	LS	LS	\$	1,200,000
94	Furnish all labor, equipment, materials, and incidentals necessary to complete the work in place, to install fender system at Piers 42-43, including bolts, UHMW-PE rub strips, and appurtenances, complete as specified and shown	38	EA	\$ 20,000.00	\$	760,000	EA	\$ 45,000.00	\$	1,710,000
95	Construct Stone Columns (beyond Snug Harbor limits)	LS	LS	LS	\$	8,000,000	LS	LS	\$	11,500,000
96	Construct Stone Columns within Snug Harbor Limits	LS	LS	LS	\$	1,000,000	LS	LS	\$	2,000,000
Electrical	& Telecommunications									
97	Exterior Lighting inclusive of material, lighting fixtures and poles, enclosures, controls, protective bollards, guard posts, pole grounding, equipment, tools, labor, testing, and incidentals (Concrete CIDH foundation is excluded from this item)	LS	LS	LS	\$	3,000,000	LS	LS	\$	1,500,000
98	HECO service contribution charges. No Contractor's mark-up will be allowed for this item.	Allowance	Allowance	Allowance	\$	2,000,000	Allowance	Allowance	\$	2,000,000
98A	HTCO service contribution charges. No Contractor's markup will be allowed for this item.	Allowance	Allowance	Allowance	\$	250,000	Allowance	Allowance	\$	250,000
99	Underground electrical work, inclusive of concrete, ducts, wiring, hand holes, pull boxes, manholes, grounding systems, backfill, hauling, and installation of material, equipment, tools, labor, materials, and incidentals	LS	LS	LS	\$	10,000,000	LS	LS	\$	10,000,000
99A	Crane Cable Trench System	LS	LS	LS	\$	1,000,000	LS	LS	\$	1,200,000
100	Wiring Systems work, inclusive of equipment, tools, labor, materials, panelboards,	LS	LS	LS	\$	300,000	LS	LS	\$	350,000
101	less than 600V ducts, wire, cables and incidentals Breaker Switchgear, Medium Voltage Drawout Mounted, related to the metal clad									
	enclosed breaker switchgear, concrete pad, connections, relaying, arc flash mitigation, protective device coordination, testing and commissioning inclusive of material, equipment, tools, labor, testing, and incidentals	LS	LS	LS	\$	150,000	LS	LS	\$	5,000,000
102	Telecommunications System including cables, equipment, testing and commissioning inclusive of material, equipment, tools, labor, testing, and incidentals	LS	LS	LS	\$	6,000	LS	LS	\$	7,500
102A	All miscellaneous electrical work and materials required for a complete functioning electrical system, and all electrical work and materials required but not included in other bid items.	LS	LS	LS	\$	2,000	LS	LS	\$	2,500,000
Environm		1								
103	Preparation of Planning Documents, inclusive of EHMP	LS	LS	LS	\$	120,000	LS	LS	\$	250,000
104	Contractors Environmental Qualified Consultant	LS	LS	LS	\$	500,000	LS	LS	\$	650,000
105	Setup, maintenance, and removal of soil staging area for non-grossly contaminated soils and contaminated sediment	LS	LS	LS	\$	150,000	LS	LS	\$	250,000
106	Setup, maintenance, and removal of soil staging area for grossly contaminated soils	LS	LS	LS	\$	150,000	LS	LS	\$	250,000
107	Not used Setup, maintenance, and removal of soil staging area for excavated landfill debris	LS	LS	LS	\$	150,000	LS	LS	\$	70,000
109	Removal and disposal of oily sheen/product from groundwater, during backtrenching	Allowance	Allowance	Allowance	\$	121,000	Allowance	Allowance	\$	121,000
110	Handling, removal, characterization, profiling, hauling, and disposal of grossly contaminated soils for site grading inclusive of excavation, hauling, disposal, equipment, tools, labor, materials and incidentals necessary to complete the work	15,000	CY	\$ 200.00	s	3,000,000	CY	\$ 400.00	\$	6,000,000
111	Handling, removal, characterization, profiling, hauling, and disposal of non- grossly contaminated soils and contaminated sediment for site grading inclusive of excavation, hauling, disposal, equipment, tools, labor, materials and incidentals	15,000	CY	\$ 30.00	s	450,000	CY	\$ 300.00	\$	4,500,000
111A	necessary to complete the work Handling, removal, characterization, profiling, hauling, and disposal of contaminated concrete, asphalt and (miscellaneous demolition) debris inclusive of excavation, hauling, disposal, equipment, tools, labor, materials, and incidentals necessary to	500	Ton	\$ 130.00	\$	65,000	Ton	\$ 250.00	\$	125,000
111B	complete the work Handling, removal, characterization, profiling, hauling, and disposal of contaminated sunken debris inclusive of excavation, hauling, disposal, equipment, tools, labor, materials and incidentals necessary to complete the work	500	Ton	\$ 130.00	\$	65,000	Ton	\$ 700.00	s	350,000
112	Tapping, draining, cleaning, testing, and disposal of fuel pipelines, if encountered, inclusive of disposal characterization analyses for residual fuel, disposal of residual fuel, disposal characterization analyses for sludge, rinsate, and solids, disposal of sludge, rinsate, and solids generated during cleaning of the underground pipelines, all equipment, tools, materials, labor, and appurtenances required to complete the work	Allowance	Allowance	Allowance	\$	100,000	Allowance	Allowance	s	100,000
113	Demolition and removal of existing pole-mounted electrical transformers inclusive of disposal characterization analyses for PCBs, disposal of dielectric fluid, and disposal of wooden utility poles	6	EA	\$ 8,000.00	\$	48,000	EA	\$ 18,000.00	\$	108,000
114	Demolition and removal of existing pad- mounted electrical transformers, inclusive of disposal characterization analyses for PCBs, disposal of dielectric fluid, and disposal of concrete slab	Allowance	Allowance	Allowance	\$	50,000	Allowance	Allowance	s	50,000
115	Ambient Air Monitoring	LS	LS	LS	\$	7,000	LS	LS	\$	135,000
116 117	Sealing/abandonment of groundwater monitoring wells	Allowance	Allowance	Allowance	\$	50,000	Allowance	Allowance	\$	50,000
11/	Removal and Disposal of Asbestos- Containing Material, Asbestos-Cement Piping, Conduit, and Asbestos- Containing Waste	LS	LS	LS	\$	300,000	LS	LS	\$	325,000
119	Lead-Containing Paint Control Measures	LS	LS	LS	\$	16,000	LS	LS	\$	30,000
120	Removal and disposal of PCB-containing light ballasts and mercury-containing light bulbs and tubes from buildings and/or light poles to be demolished	Allowance	Allowance	Allowance	\$	17,000	Allowance	Allowance	\$	17,000
121	Excavation, tapping, draining, and removal of existing underground storage tanks (USTs) and associated piping, inclusive of disposal characterization analyses for residual fuel, disposal of residual fuel, disposal characterization analyses for sludge, rinsate, and solids, disposal of sludge, rinsate, and solids generated, and preparation of closure report	Allowance	Allowance	Allowance	\$	201,000	Allowance	Allowance	\$	201,000
122	Excavation, tapping, draining, and removal of existing aboveground storage tanks (ASTs) and associated piping, inclusive of disposal characterization analyses for residual fuel, disposal of residual fuel, disposal characterization analyses for sludge, rinsate, and solids, disposal of sludge, rinsate, and solids generated, and preparation of closure report	Allowance	Allowance	Allowance	\$	24,000	Allowance	Allowance	\$	24,000
123	Environmental Mitigation	Allowance	Allowance	Allowance	\$	1,000,000	Allowance	Allowance	\$	1,000,000
124 124A	H.C. 10502 KCT Yard Project Site Security Post-construction security	30 30	Months Months	\$ 30,000.00 \$ 40,000.00	\$	900,000	Months Months	\$ 28,000.00 \$ 37,000.00	\$	840,000 1,110,000
124A 125	Field Office including maintenance	LS	LS	\$ 40,000.00 LS	\$	1,300,000	LS	\$ 37,000.00 LS	\$	450,000
126	Archaeological Monitoring	LS	LS	LS	\$	315,000	LS	LS	\$	250,000
127	Burial Treatment	Allowance	Allowance	Allowance	\$	1,000,000	Allowance	Allowance	\$	1,000,000
128 129	Construction Progress Documentation	LS	LS	LS	\$	25,000	LS	LS	\$	50,000
129	Construction Progress Documentation	LS	LS	LS	\$	50,000	LS	LS	\$	150,000

130	Implementation of Coral Transplantation Plan, including but not limited to conducting survey of recipient site, developing coral transplantation work plan, removing corals from the donor site and transplanting the corals at the recipient site and preparing post coral transplantation report	LS	LS	LS	\$ 66,000	LS	LS	\$	750,000
131	Additional work associated with, or required for, implementation of Coral Transplantation Plan, Including but not limited to, transplantation of live corals >40cm above and in excess of 69 square meters	Allowance	Allowance	Allowance	\$ 150,000	Allowance	Allowance	\$	150,000
132	Auiki Street Improvements including traffic control within city Right-Of-Way	LS	LS	LS	\$ 45,000	LS	LS	\$	40,000
132A	Auiki Street Improvements consisting of installation, maintenance, monitoring, and removal of BMP within city Right- Of-Way	LS	LS	LS	\$ 10,000	LS	LS	\$	25,000
132B	Auiki Street Improvements consisting of demolition work within city Right-Of- Way	LS	LS	LS	\$ 18,000	LS	LS	\$	22,000
132C	Auiki Street Improvements including aggregate base course, for asphalt concrete pavement, within city Right- Of-Way	10	CY	\$ 400.00	\$ 4,000	CY	\$ 675.00	\$	6,750
132D	Auiki Street Improvements including 2' wide, 4" thick asphalt pavement, Mix IV, in place, within city Right- Of-Way	47	SY	\$ 240.00	\$ 11,280	SY	\$ 330.00	\$	15,510
132E	Portland cement concrete curbs and gutters within City right-of-way, specific to Auiki Street improvements, inclusive of Portland cement concrete; furnishing, placing, and removing of forms; protection devices; furnishing and placing curing materials; joints; grinding and grooving; testing; and furnishing labor, materials, tools, equipment, and incidentals		LF	\$ 100.00	\$ 10,500	LF	\$ 125.00	s	13,125
132F	Portland cement concrete sidewalks within City right-of-way, specific to Auiki Street, inclusive of Portland cement concrete; furnishing, placing, and removing of forms; protection devices; furnishing and placing curing materials; joints; grinding and grooving; testing; and furnishing labor, materials, tools, equipment, and incidentals	170	SY	\$ 120.00	\$ 20,400	SY	\$ 270.00	s	45,900
	TOTAL SUM BID PART I- JOB H.C. 10498 (SUM OF ALL ITEMS 1- 132F, INCLUSIVE)	•			\$ 370,412,680			\$	415,439,775

 Pier Construction Cost per LF
 \$ 3,180
 \$ 130,641.44

 Pier Construction Cost per Acre
 \$ 19
 \$ 22,456,204.05

					Nan, Inc.		Hav	vaii Harbors Construc	tors JV	ENG	INEER'S ESTIMA	ATE
ITEM NO.		ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT	UNIT	UNIT PRICE	AMOUNT	UNIT	UNIT PRICE	AMOUNT
1		Mobilization and Demobilization (not to exceed 10% of all bid items)	1	LS	LS	\$1,024,916	LS	LS	\$880,000	LS	LS	\$425,000
2		Project Sign, in place complete	1	LS	LS	\$9,111	LS	LS	\$1,700	LS	LS	\$3,128
3		Mobilization and Demobilization for pile driving (\$85,000 maximum). 60% of this amount will be paid for mobilization and 40% for demobilization.	1	LS	LS	\$75,008	LS	LS	\$85,000	LS	LS	\$85,000
4		Traffic Control (Nimitz Highway)	1	LS	LS	\$116,542	LS	LS		LS	LS	\$25,023
5		Environmental Health Management Plan	Allowance	Allowance	Allowance	\$10,000	Allowance	10000	\$10,000	Allowance	10000	\$10,000
6		Archaeological Monitoring and Report	Allowance	Allowance	Allowance	\$50,000	Allowance	50000	\$50,000	Allowance	50000	\$50,000
7		Pile Driving Energy Attenuator		LS	LS	\$106,515	LS	LS	\$192,600	LS	LS	\$60,000
	T	Pier 12 (Items 8 - 42, inclusive)	ı ı									
8		Saw-cut and Removal of Asphaltic Concrete Pavement	2100	SF	\$8	\$16,800	SF	\$8	\$16,800	SF	\$4	\$8,408
9		Saw-cut and Removal of Concrete Pavement	850	SF	\$12	\$10,200	SF	\$7	\$5,950	SF	\$8.13	\$6,911
10		Demolition and Removal of Asphaltic Concrete Curb	260	LF	\$17	\$4,420	LF	\$12	\$3,120	LF	\$12.20	\$3,172
11		Demolition and Removal of Chain Link Fence	110	LF	\$15	\$1,650	LF	\$16	\$1,760	LF	\$6.69	\$736
12		BMP Measures	1	LS	LS	\$77,213	LS	LS	\$47,000	LS	LS	\$22,769
13		9-Foot High Industrial Ornamental Fence	70	LF	\$113	\$7,910	LF	\$280	\$19,600	LF	\$281.55	\$19,709
14		9-Foot High by 30-Foot Wide Industrial Ornamental Rolling Gate	1	EA	\$7,567	\$7,567	EA	\$219	\$21,900	EA	\$10,634.86	\$10,635

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15	Asphaltic Concrete Pavement Restoration Mix IV (2-1/2" thick)	1200	SF	\$104	\$124,800	SF	\$11	\$13,200	SF	\$10.01	\$12,012
16	Earthwork, Inclusive of Excavation, Embankment and Subgrade Preparation	1	LS	LS	\$32,706	LS	LS	\$13,500	LS	LS	\$6,506
17	Soil Compaction Testing	1	LS	LS	\$15,135	LS	LS	\$12,000	LS	LS	\$3,128
18	Aggregate Base Course	25	CY	\$371	\$9,275	CY	\$230	\$5,750	CY	\$70.06	\$1,752
19	Concrete Curb	220	LF	\$27	\$5,940	LF	\$77	\$16,940	LF	\$33.97	\$7,473
20	Curb and Scupper Filter	9	EA	\$1,389	\$12,501	EA	\$1,500	\$13,500	EA	\$72.44	\$652
21	Removable Bollards	5	EA	\$1,538	\$7,690	EA	\$1,050	\$5,250	EA	\$938.37	\$4,692
22	Pavement Marking and Striping	1	LS	LS	\$4,540	LS	LS	\$4,420	LS	LS	\$7,692
23	Water System	1	LS	LS	\$168,589	LS	LS	\$125,000	LS	LS	\$38,077
24	Furnishing Micropile Installation Equipment	1	LS	LS	\$36,859	LS	LS	\$10,200	LS	LS	\$17,516
25	7-Inch Bulb Production Micropiles, Furnished and Installed, in place complete.	2280	LF	\$140	\$319,200	LF	\$136	\$310,080	LF	\$200.19	\$456,433
26	Proof Tests for 7-Inch Bulb Micropiles	3	EA	\$6,143	\$18,429	EA	\$4,500	\$13,500	EA	\$15,013.92	\$45,042
27	Grout Testing	6	SET	\$361	\$2,166	SET	\$227	\$1,362	SET	\$1,063.49	\$6,381
28	20-Inch Octagonal Precast Prestressed Concrete Test Piles, Furnished	486	LF	\$175	\$85,050	LF	\$113	\$54,918	LF	\$81.33	\$39,526
29	20-Inch Octagonal Precast Prestressed Concrete Test Piles, Predrill Holes 20 Feet Below Mudline	105	LF	\$131	\$13,755	LF	\$159	\$16,695	LF	\$90.08	\$9,458

30	20-Inch Octagonal Precast Prestressed Concrete Test Piles, Installed	486	LF	\$94	\$45,684	LF	\$55	\$26,730	LF	\$102.98	\$50,048
31	Dynamic Load Test for 20-Inch Octagona Precast Prestressed Concrete Piles	5	EA	\$6,070	\$30,350	EA	\$7,500	\$37,500	EA	\$25,023.19	\$125,116
32	20-Inch Octagonal Precast Prestressed Concrete Production Piles, Furnished	1466	LF	\$175	\$256,550	LF	\$113	\$165,658	LF	\$81.33	\$119,230
33	20-Inch Octagonal Precast Prestressed Concrete Production Piles, Predrill Holes 20 Feet Below Mudline	315	LF	\$131	\$41,265	LF	\$159	\$50,085	LF	\$60.06	\$18,919
34	20-Inch Octagonal Precast Prestressed Concrete Production Piles, Installed	1466	LF	\$94	\$137,804	LF	\$55	\$80,630	LF	\$83.21	\$121,986
35	Install Vehicular Bridge, Loading Platform and Bull Rail, Two Concrete Dolphins, Aluminum Catwalk with Mesh Grating and Aluminum Guardrails, Dock Fenders, in place complete.		LS	LS	\$664,169	LS	LS	\$851,896	LS	LS	\$618,009
36	Install 14-Inch Concrete Parking/Delivery Slab and Beams	1	LS	LS	\$110,897	LS	LS	\$110,000	LS	LS	\$156,401
37	Furnish and Install Mooring Bollards	4	EA	\$4,556	\$18,224	EA	\$2,700	\$10,800	EA	\$17,016	\$68,063
38	Electrical, Lighting, Telecom and Communication Work	1	LS	LS	\$669,542	LS	LS	\$236,000	LS	LS	\$239,518
39	Interpretive Marker, Furnished and Installed, in place complete.	Allowance	Allowance	10000	\$10,000	Allowance	10000	\$10,000	Allowance	10000	\$10,000
40	HECO Service Charge	Allowance	Allowance	50000	\$50,000	Allowance	50000	\$50,000	Allowance	50000	\$50,000
41	HTCO Service Charge	Allowance	Allowance	10000	\$10,000	Allowance	10000	\$10,000	Allowance	10000	\$10,000
42	BWS Service Charge	Allowance	Allowance	40000	\$40,000	Allowance	40000	\$40,000	Allowance	40000	\$40,000
	Pier 15 (Items 43 - 87, inclusive)				T	1	I	I	ı	T	
43	Demolition and Removal of Chain Link Fence and Sliding Gate	50	LF	\$19	\$950	LF	\$ 125	\$6,250	LF	\$39.41	\$1,971

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44	Remove Salvage and Return Bollards to Harbors	10	EA	\$884	\$8,840	EA	\$1,370	\$13,700	EA	\$938.37	\$9,384
45	Demolition Remove and Dispose Wood Bumpers	135	LF	\$38	\$5,130	LF	\$35	\$4,725	LF	\$30.03	\$4,054
46	Demolition and Removal Concrete Curb	20	LF	\$22	\$440	LF	\$71	\$1,420	LF	\$12.20	\$244
47	Saw-cut and Removal of Asphaltic Concrete Pavement	4950	SF	\$6	\$29,700	SF	\$8	\$39,600	SF	\$4.00	\$19,800
48	Remove and Dispose Concrete Pile (cut at mudline)	10	EA	\$9,572	\$95,720	EA	\$1,500	\$15,000	EA	\$3,127.90	\$31,279
49	Remove and Dispose Miscellaneous Items at Seabed	1	LS	LS	\$117,891	LS	LS	\$90,000	LS	LS	\$31,279
50	Partial Demolition and Removal of Pier Shed Roof and Wall	1	LS	LS	\$54,570	LS	LS	\$57,000	LS	LS	\$21,845
51	Remove and Dispose Asbestos Containing Items	1	LS	\$15,135	\$15,135	LS	\$6,500	\$6,500	LS	LS	\$18,767
52	Air Monitoring for Removal and Disposal of Asbestos Containing Materials	1	LS	LS	\$7,567	LS	LS	\$3,100	LS	LS	\$6,256
53	Installation, Maintenance, Monitoring and Removal of BMP Measures	1	LS	LS	\$144,571	LS	LS	\$62,000	LS	LS	\$63,011
54	8-Foot High Chain Link Fence with Barbed Wire	24	LF	\$75	\$1,800	LF	\$190	\$4,560	LF	\$90.08	\$2,162
55	8-Foot High by 22-Foot Wide Chain Link Sliding Gate with Barbed Wire	1	EA	\$6,810	\$6,810	EA	\$4,900	\$4,900	EA	\$5,630	\$5,630
56	Asphaltic Concrete Pavement Restoration, Mix IV (2-1/2" thick)	1310	SF	\$52	\$68,120	SF	\$10	\$13,100	SF	\$10.01	\$13,113
57	Earthwork, Inclusive of Excavation, Embankment and Subgrade Preparation	1	LS	LS	\$50,665	LS	LS	\$20,500	LS	LS	\$15,514

58	Soil Compaction Testing	1	LS	LS	\$15,135	LS	LS	\$17,000	LS	LS	\$3,128
59	Aggregate Base Course	25	CY	\$318	\$7,950	CY	\$285	\$7,125	CY	\$70.06	\$1,752
60	Concrete Curb	30	LF	\$37	\$1,110	LF	\$85	\$2,550	LF	\$33.97	\$1,019
61	Scupper Filter	14	EA	\$1,573	\$22,022	EA	\$1,500	\$21,000	EA	\$36.22	\$507
62	Pavement Marking and Striping	1	LS	LS	\$3,783	LS	LS	\$1,400	LS	LS	\$1,481
63	Water System	1	LS	LS	\$528,851	LS	LS	\$205,000	LS	LS	\$74,699
64	7-Inch Bulb Production Micropiles, Furnished and Installed, in place complete	340	LF	\$140	\$47,600	LF	\$136	\$46,240	LF	\$200.19	\$68,065
65	16-1/2-inch Octagonal Precast Prestressed Concrete Test Piles, Furnished	452	LF	\$127	\$57,404	LF	\$82	\$37,064	LF	\$52.55	\$23,753
66	16-1/2-Inch Octagonal Precast Prestressed Concrete Test Piles, Predrill Holes 15 Feet Below Ground Surface	60	LF	\$185	\$11,100	LF	\$48	\$2,880	LF	\$60.06	\$3,604
67	16-1/2-Inch Octagonal Precast Prestressed Concrete Test Piles, Installed	410	LF	\$100	\$41,000	LF	\$25	\$10,250	LF	\$109.86	\$45,043
68	Static Load Test for 16-1/2-Inch Octagonal Precast Prestressed Concrete Piles	4	EA	\$28,182	\$112,728	EA	\$5,000	\$20,000	EA	\$25,023.19	\$100,093
69	16-1/2-Inch Octagonal Precast Prestressed Concrete Production Piles, Furnished	1230	LF	\$128	\$157,440	LF	\$82	\$100,860	LF	\$52.55	\$64,637
70	16-1/2-Inch Octagonal Precast Prestressed Concrete Production Piles, Predrill Holes 15 Feet Below Ground Surface	180	LF	\$174	\$31,320	LF	\$32	\$5,760	LF	\$60.06	\$10,811
71	16-1/2-Inch Octagonal Precast Prestressed Concrete Production Piles, Installed	1230	LF	\$83	\$102,090	LF	\$17	\$20,910	LF	\$53.71	\$66,063

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72	20-Inch Octagonal Precast Prestressed Concrete Test Piles, Furnished	699	LF	\$173	\$120,927	LF	\$113	\$78,987	LF	\$81.33	\$56,850
73	20-Inch Octagonal Precast Prestressed Concrete Test Piles, Predrill Holes 20 Feet Below Mudline	126	LF	\$163	\$20,538	LF	\$ 159	\$20,034	LF	\$90.08	\$11,350
74	20-Inch Octagonal Precast Prestressed Concrete Test Piles, Installed	699	LF	\$79	\$55,221	LF	\$55	\$38,445	LF	\$157.51	\$110,099
75	Dynamic Load Test for 20-Inch Octagonal Precast Prestressed Concrete Piles	6	EA	\$6,070	\$36,420	EA	\$10,000	\$60,000	EA	\$25,023.19	\$150,139
76	20-Inch Octagonal Precast Prestressed Concrete Production Piles, Furnished	7121	LF	\$173	\$1,231,933	LF	\$113	\$804,673	LF	\$81.33	\$579,151
77	20-Inch Octagonal Precast Prestressed Concrete Production Piles, Predrill Holes 20 Feet Below Mudline	1281	LF	\$132	\$169,092	LF	\$115	\$147,315	LF	\$2.63	\$3,369
78	20-Inch Octagonal Precast Prestressed Concrete Production Piles, Installed	7121	LF	\$81	\$576,801	LF	\$48	\$341,808	LF	\$63.95	\$455,388
79	Install Two Loading Platforms and Bull Rail, Five Concrete Dolphins, Aluminum Catwalk with Mesh Grating and Aluminum Guardrails, Dock Fenders, Concrete Bull Rail, in place complete.	1	LS	LS	\$2,441,380	LS	LS	\$2,415,000	LS	LS	\$3,657,618
80	Install 12-Inch Concrete Parking/Delivery Slab and Beams	1	LS	LS	\$238,918	LS	LS	\$262,000	LS	LS	\$128,625
81	Furnish and Install Mooring Bollard	11	EA	\$6,798	\$74,778	EA	\$2,300	\$25,300	EA	\$17,015.77	\$187,173
82	Install New Parapet at Pier Shed Roof, including metal studs, gypsum sheathing board, exterior finish system, cap and wall flashing, plywood roof cricket, built-up roofing, concrete column, "x" bracing, painting, in place complete.	1	LS	LS	\$260,282	LS	LS	\$170,000	LS	LS	\$63,870
83	Electrical, Lighting, Telecom and Communication Work	1	LS	LS	\$669,542	LS	LS	\$330,000	LS	LS	\$299,506

84	Coral Quantitative Assessment and Report (see Note 5 on Sheet C15.1)	Allowance	Allowance	\$13,000	\$13,000	Allowance	\$13,000	\$13,000	Allowance	\$13,000	\$13,000
85	HECO Service Charge	Allowance	Allowance	\$50,000	\$50,000	Allowance	\$50,000	\$50,000	Allowance	\$50,000	\$50,000
86	HTCO Service Charge	Allowance	Allowance	\$10,000	\$10,000	Allowance	\$10,000	\$10,000	Allowance	\$10,000	\$10,000
87	BWS Service Charge	Allowance	Allowance	\$300,000	\$300,000	Allowance	\$300,000	\$300,000	Allowance	\$300,000	\$300,000
	TOTAL - SUM OF ALL ITEMS				\$12,475,246			\$9,595,000			\$9,799,206

The total bid submitted by Hawaii Harbors Constructors JV is \$9,595,000. \$9,538,000
The calculated total is \$9,538,000, it is (\$57,000) less then the actual bid.

Gross Bid Amount and Rank	Nan Inc.	Hawaii Harbors Constructors JV	
Total Gross Bid:	\$12,475,246.00	\$9,538,000.00	
Rank:	2	1	
Difference from Top Bidder:	-\$2,937,246.00		

ACCEPTABLE HAWAII PRODUCTS		Nan Inc.		Haw	vaii Harbors Construc	tors JV		
Product Category	Cost	Credit		Cost	Credit			
Aggregates and Sand-Basalt Rock, Cinder, Limestone and Coral*	\$5,500.00		HAR-3-124-5 (b)	\$11,200.00		HAR-3-124-5 (b)		
Asphalt and Paving Material	\$9,500.00	\$950.00	10%					
Cement and Concrete Products*	\$250,000.00		HAR-3-124-5 (b)	\$211,570.00		HAR-3-124-5 (b)		
Precast Concrete Products*	\$1,541,000.00		HAR-3-124-5 (b)	\$1,334,815.00		HAR-3-124-5 (b)		
Aluminum Floating Dock - Misc.				\$222,500.00	\$22,250.00	10%		
Total	\$1,806,000.00	\$950.00		\$1,780,085.00	\$22,250.00			

*HAR-Section 3-124-5 (b) All bidders submitted for Hawaii Products preference therefore no Hawaii Products preference shall be considered.

APPRENTICE CREDIT

	Nan Inc.		Hawai	ii Harbors Constru	ctors JV		
Gross Bid	Credit	Percentage	Gross Bid	Credit	Percentage		
\$12,475,246	\$623,762	5%	\$9,538,000	\$476,900	5%		

	Nan Inc.	Hawaii Harbors Constructors JV	
Total Gross Bid Less Acceptable Hawaii Products	\$11,850,533.70	\$9.038.850.00	
and Apprentice:	ψ11,030,333.70	ψθ,030,030.00	

BID TABULATION FOR THE DOMESTIC COMMERCIAL FISHING VILLAGE, PIER IMPROVEMENTS, PIERS 36-38 HONOLULU HARBOR, OAHU, JOB H. C. 1972

BIDS OPENED: October 8, 1998

ENGINEER'S ESTIMATE: \$5,762,419.18

					its Builders, Inc.	Pacific, Ltd Dredging Co	n Construction I. dba Hawaiian Construction mpany		ər's Estimate
ITEM NO.	DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE BID	AMOUNT BID	UNIT PRICE BID	AMOUNT BID	UNIT PRICE BID	AMOUNT BID
12.0100	Project Sign								4. 500.00
12.0101	Project Sign	LS	LS	LS	\$2,400.00	LS	\$1,500.00	LS	\$1,500.00
13.0100	Mobilization Mobilization	LS	LS	LS	\$250,000.00	LS	\$145,000.00	LS	\$131,125.00
14.0100	Contaminated Solls and Groundwater								
14.0101	Excavation and disposal of uncontaminated soil from project site, including soil testing	3000	CY	\$26.80	\$80,400.00	\$35.00	\$105,000.00	\$27.00	\$81,000.00
14.0102	Excavation and disposal of contaminated soil from project site, including soil testing	F.A.	F.A.	F.A.	\$60,000.00	F.A.	\$60,000.00	F.A.	\$60,000.00
14.0103	Segregation of soil and construction of holding temporary holding cells, placement of contaminated soild therein, and management of contaminated soil facility	1500	CY	\$16.40	\$24,600.00	\$30.00	\$45,000.00	\$27.00	\$40,500.00
14.0104	TCLP testing	10	Sample	\$180.00	\$1,800.00	\$650.00	\$6,500.00	\$1,000.00	\$10,000.00
	Free product removal	10	HR	\$2,000.00	\$20,000.00	\$200.00	\$2,000.00	\$200.00	\$2,000.00
14.0105	Disposal of hazardous contaminated soil to be sent to an EPA approved disposal facility on the continental United States	F.A.	F.A.	F.A.	\$10,000.00	F.A.	\$10,000.00	F.A.	\$10,000.00
16.0100	Clearing and Grubbing								
16.0101	Clearing and Grubbing	3.1	ACRE	\$11,000.00	\$34,100.00	\$15,000.00	\$46,500.00	\$4,400.00	\$13,640.00
17.0100	Removal of Structures and Obstructions							200000	
17.0101	Removal of Structures and Obstructions	3.1	ACRE	\$3,300.00	\$10,230.00	\$3,200.00	\$9,920.00	\$11,000.00	\$34,100.00
18.0100	Earthwork and Subgrade Preparation	<u> </u>						 	
18.0101	Excavation (Stockpile for H. C. 1983) includes contaminated soil that meets the requirements of general fill and can be re-used.	3,845	CY	\$2.30	\$8,843.50	\$25.00	\$96,125.00	\$5.50	\$21,147.50
18.0102	Excavation / fill (Onsite)	330	CY	\$5.60	\$1,848.00	\$3.50	\$1,155.00	\$7.70	\$2,541.00
20.0100	Aggregate Base Course and Subbase Course	† · · · · · · · · · · · · · · · · · · ·							
20.0101	Asphaltic Concrete Pavement (3" thick)	2440	S.Y.	\$10.50	\$25,620.00	\$11.55	\$28,182.00	\$13.20	\$32,208.00
20.0102	Aggregate base course (8" thick)	2440	S.Y.	\$18.70	\$45,628.00	\$15.00	\$36,600.00	\$22.00	\$53,680.00
20.0103	Aggregate base course (11" thick)	1100	S.Y.	\$24.00	\$26,400.00	\$17.00	\$18,700.00	\$30.80	\$33,880.00
20.0104	Aggregate select borrow (12" thick)	3540	S.Y.	\$20.50	\$72,570.00	\$16.00	\$56,640.00	\$22.00	\$77,880.00
20.0105	Aggregate select borrow (16" thick)	455	S.Y.	\$28.60	\$13,013.00	\$16.00	\$7,280.00	\$29.70	\$13,513.50

BIDS OPENED: October 8, 1998 ENGINEER'S ESTIMATE: \$5,762,419.18

		APPROX.			its Builders, Inc.	Pacific, Ltd Dredging	n Construction . dba Hawaiian Construction mpany	Engineer's Estimate	
ITEM NO.	DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE BID	AMOUNT BID	UNIT PRICE BID	AMOUNT BID	UNIT PRICE BID	AMOUNT BID
21.0100	Water System				40.0000	470.00	*40.000.00	#170.50	\$100,050.00
21.0101	12" Fire Line	580	L.F.	\$72.60	\$42,108.00	\$70.00	\$40,600.00	\$172.50	
21.0102	8" Fire Line	255	L.F.	\$46.00	\$11,730.00	\$45.00	\$11,475.00	\$161.00	\$41,055.00
21.0103	6" Fire Lateral (connection and gate valve)	1	EA	\$3,900.00	\$3,900.00	\$2,000.00	\$2,000.00	\$575.00	\$575.00
21.0104	3" water line	570	L.F.	\$29.00	\$16,530.00	\$14.00	\$7,980.00	\$98.00	\$55,860.00
21.0105	2" water line	230	L.F.	\$29.00	\$6,670.00	\$11.00	\$2,530.00	\$34.50	\$7,935.00
21.0106	1-1/2" water line	475	L.F.	\$23.00	\$10,925.00	\$8.00	\$3,800.00	\$32.20	\$15,295.00
21.0107	4" PVC Sleeve	705	L.F.	\$6.70	\$4,723.50	\$16.00	\$11,280.00	\$2.30	\$1,621.50
21.0107	Water Hatches	8	EA	\$1,025.00	\$8,200.00	\$4,500.00	\$36,000.00	\$5,750.00	\$46,000.00
21.0109	Fire Hydrant with 2 bollards	2	EA	\$2,800.00	\$5,600.00	\$4,500.00	\$9,000.00	\$2,875.00	\$5,750.00
21.0109	Fire Hydrant with 6 bollards	1	EA	\$4,780.00	\$4,780.00	\$5,250.00	\$5,250.00	\$4,600.00	\$4,600.00
21.0110	1-1/2" backflow preventer	1 1	EA	\$1,150.00	\$1,150.00	\$1,500.00	\$1,500.00	\$1,150.00	\$1,150.00
21.0112	1-1/2" water meter with totalizer-transmiter and meter box	2	EA	\$4,725.00	\$9,450.00	\$5,000.00	\$10,000.00	\$1,725.00	\$3,450.00
21.0113	Double check valve with Fox demand valve assembly	1	EA	\$1,430.00	\$1,430.00	\$4,300.00	\$4,300.00	\$5,750.00	\$5,750.00
21.0114	3/4" Air release valve	1	EA	\$970.00	\$970.00	\$3,000.00	\$3,000.00	\$1,150.00	\$1,150.00
21.0115	Connection to existing 1-1/2" service	1	EA	\$460.00	\$460.00	\$350.00	\$350.00	\$230.00	\$230.00
21.0116	Chlorination and testing	LS	LS	LS	\$3,375.00	LS	\$3,000.00	LS	\$2,300.00
22.0100	Sewer System								
22.0101	8" Sewer Line	200	L.F.	\$67.00	\$13,400.00	\$10.00	\$2,000.00	\$92.00	\$18,400.00
22.0102	4" Sewer Line	130	L.F.	\$66.50	\$8,645.00	\$5.50	\$715.00	\$69.00	\$8,970.00
22.0103	Plain SMH (6' Deep)	1	EA	\$4,500.00	\$4,500.00	\$3,000.00	\$3,000.00	\$4,025.00	\$4,025.00
22.0104	6" Single service lateral	1	EA	\$900.00	\$900.00	\$300.00	\$300.00	\$1,380.00	\$1,380.00
22.0105	Sewer Pipe trench excavation	150	CY	\$19.50	\$2,925.00	\$75.00	\$11,250.00	\$200.00	\$30,000.00
23.0100	Drainage System	ļ		0400.00	440,000,00	#40.00	\$6,400.00	\$97.00	\$15,520.00
23.0101	24" Drain line	160	L.F.	\$100.00	\$16,000.00	\$40.00	\$900.00	\$63.00	\$1,575.00
23.0102	18" Drain line	25	L.F.	\$140.00	\$3,500.00 \$4,760.00	\$36.00 \$14.00	\$1,190.00	\$34.50	\$2,932.50
23.0103	12" Drain line	85	L.F.	\$56.00	\$2,350.00	\$8.00	\$376.00	\$28.00	\$1,316.00
23.0104	8" Drain line	47	L.F.	\$50.00	\$2,350.00	\$7.50	\$525.00	\$28.00	\$1,960.00
23.0105	6" Drain line	70	L.F. L.F.	\$40.00 \$60.00	\$33,360.00	\$135.00	\$75,060.00	\$75.00	\$41,700.00
23.0106	Trench Drain	556	EA	\$3,400.00	\$3,400.00	\$4,000.00	\$4,000.00	\$7,475.00	\$7,475.00
23.0107	18" Drain Inlet	1	EA EA	\$3,400.00	\$13,000.00	\$6,200.00	\$6,200.00	\$11,500.00	\$11,500.00
23.0108	CRM Apron	1	EA EA	\$4,900.00	\$4,900.00	\$8,500.00	\$8,500.00	\$23,000.00	\$23,000.00
23.0109	Fox Diversion valve with box	200	CY	\$19.40	\$3,880.00	\$70.00	\$14,000.00	\$200.00	\$40,000.00
23.0110	Drain pipe trench excavation	200		\$15.4U	ψυ,υυυ.υυ	ψ10.00	Ψ1-1,000.00	Ψ200.00	* 1-1-30

BIDS OPENED: October 8, 1998 ENGINEER'S ESTIMATE: \$5,762,419.18

				Healy Tibb	its Builders, Inc.	Pacific, Ltd Dredging	n Construction I. dba Hawaiian I Construction Impany		er's Estimate
ITEM NO.	DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE BID	AMOUNT BID	UNIT PRICE BID	AMOUNT BID	UNIT PRICE BID	AMOUNT BID
24.0100	Dredging								
24.0101	Tests: TPH-Diesel, TPH-Gas w/Btex, TPH-Oil	40	EA	\$390.00	\$15,600.00	\$1,000.00	\$40,000.00	\$250.00	\$10,000.00
24.0102	Tests: PAH	40	EA	\$220.00	\$8,800.00	\$750.00	\$30,000.00	\$250.00	\$10,000.00
24.0103	Tests: TCLP-metals, Metals, PCB's, HVOC's	40	EA	\$390.00	\$15,600.00	\$1,100.00	\$44,000.00	\$250.00	\$10,000.00
24.0104	On-land disposal (contaminated material) w/o Remediation	3519	CY	\$125.00	\$439,875.00	\$45.00	\$158,355.00	\$39.50	\$139,000.50
24.0105	On-land disposal (contaminated material) w/ Remediation	F.A.	F.A.	F.A.	\$60,000.00	F.A.	\$60,000.00	F.A.	\$60,000.00
24.0106	Offshore Disposal	27479	CY	\$7.30	\$200,596.70	\$13.00	\$357,227.00	\$16.92	\$464,944.68
25.0100	Precast / Stressed Composite Pile								
25.0101	Furnish Precast / stressed composite pile	150	LF	\$53.00	\$7,950.00	\$70.00	\$10,500.00	\$45.00	\$6,750.00
25.0102	Install Precast / Stressed composite pile	147	LF _	\$150.00	\$22,050.00	\$75.00	\$11,025.00	\$30.00	\$4,410.00
26.0100	Steel Sheet Pile System, including steel, sheet piles, wales, tie-rods, turnbuckles, miscellaneous connections								
26.0101	Steel Sheet Pile System	LS	LS	LS	\$1,775,000.00	LS	\$2,300,000.00	LS	\$1,306,472.00
27.0100	Cast-in-Place Concrete, including formwork, rebars and concrete for the various items requiring cast-in-place concrete.								
27.0101	Cast-in-place Concrete	LS	LS	LS	\$1,950,000.00	LS	\$1,580,225.00	LS	\$1,779,501.00
	Concrete curb (19" tall)	460	LF	\$40.00	\$18,400.00	\$15.75	\$7,245.00	\$22.00	\$10,120.00
28.0100	Miscellaneous Metals, including steel tube sign						45.000.00		440 445 00
	Miscellaneous Metals	LS	LS	LS	\$118,000.00	LS	\$5,000.00	LS	\$12,445.00
29.0100	Rubber Fender System, Including hardware					·	4450 000 00		#400.054.00
	Rubber Fender System	LS	LS	LS	\$130,000.00	LS	\$150,000.00	LS	\$168,851.00
29.0102	Used Tire System	LS	LS	LS	\$6,500.00	LS	\$1,250.00	LS	\$2,500.00
30.0100	Mooring Bitts and Cleats				4.00000	41 000 00	440.000.00	24 050 00	A40 500 00
30.0101	Mooring Bitts	10	EA	\$4,000.00	\$40,000.00	\$1,800.00	\$18,000.00	\$1,250.00 \$650.00	\$12,500.00 \$5,200.00
30.0102	Cleats	8	EA	\$1,500.00	\$12,000.00	\$650.00 \$880.00	\$5,200.00 \$2,640.00	\$1,250.00	\$3,750.00
30.0103	Spare Mooring Bitts	3	EA	\$1,500.00	\$4,500.00	\$250.00	\$2,640.00 \$750.00	\$650.00	\$1,950.00
30.0104	Spare Cleats	3	EA	\$300.00	\$900.00	\$200.00	00.0c v	305U.UU	Φ1,00.00
31.0100	Protective Coating System		10		¢110,000,00	LS	\$250,000.00	LS	\$52,413.00
31.0101	Protective Coating System	LS	LS	LS	\$110,000.00	LS	\$250,000.00	LO	∌ 3∠,413.00
32.0100	Electrical Work		LS	LS	\$140,000.00	LS	\$135,000.00	LS	\$210,372.00
32.0101	Electrical Work	LS	LS	LS	\$140,000.00	LO	\$133,000.00	LO	φε 10,3/2.00
33.0100	Surcharge	15000		\$1.00	\$15,000.00	\$11.50	\$172,500.00	\$17.00	\$255,000.00
33.0101	Furnishing, Hauling & Placement of surcharge material Settlement gauges, including furnishing, installation,	15000 LS	CY LS	\$1.00 LS	\$40,000.00	\$11.50 LS	\$5,000.00	\$17.00 LS	\$7,500.00
33.0102 33.0103	monitoring & of settlement Removal of surcharge material	15000	CY	\$1.00	\$15,000.00	\$6.50	\$97,500.00	\$6.50	\$97,500.00
34.0100	Painting	, , , , , , , , , , , , , , , , , , , ,		 					
34.0101	Painting	LS	LS	LS	\$8,000.00	LS	\$6,000.00	LS	\$10,000.00
J4.0101	1			 -	\$6,091,545.70		\$6,410,000.00		\$5,762,419.18
	BASIC BID-SUM OF ALL ITEMS				\$0,091,343.70		JU,410,000.00		φυ,/ υΖ,410.10

BIDS OPENED: October 8, 1998 ENGINEER'S ESTIMATE: \$5,762,419.18

				Healy Tibbi	ts Builders, Inc.	Pacific, Ltd Dredging Co	Construction dba Hawaiian Construction mpany		er's Estimate
ITEM NO.	DESCRIPTION	APPROX.	UNIT	UNIT PRICE BID	AMOUNT BID	UNIT PRICE BID	AMOUNT BID	UNIT PRICE BID	AMOUNT BID
	DEDUCTIVE ALTERNATE NO. 1: Deduct steel sheet pile system including related work items such as: protective coating system, tie rods and turnbuckles, wales, concrete pile cap, and connections (extent as shown on Sheets S-6 and S-7). Deductive work includes dredging, and the following work from gridlines 3 through 11: 8 inch concrete pavement, rubber fender system, moorings, water system, drainage system, and								
	Water System	135	L.F	\$23.00	\$3,105.00	\$5.00	\$675.00	\$32.00	\$4,320.00
21.0101	1-1/4" water line			\$6.70	\$904.50	\$14.00	\$1,890.00	\$2.30	\$310.50
	4" PVC Sleeve	135 3	L.F EA.	\$1,025.00	\$3,075.00	\$500.00 *	\$15,000.00	\$5.750.00	\$17,250.00
	Water Hatches	3	EA.	\$1,025.00	\$3,075.00	\$500.00	\$13,000.00	\$5.730.00	\$17,230.00
	Drainage System	40	L.F	\$40.00	\$1,600.00	\$6.50	\$260.00	\$28.00	\$1,120.00
	6" Drain line	157	L.F	\$60.00	\$9,420.00	\$100.00	\$15,700.00	\$75.00	\$11,775.00
	Trench Drain	8	C.Y.	\$20.00	\$160.00	\$55.00	\$440.00	\$200.00	\$1,600.00
	Drain Pipe trench excavation			Ψ20.00	Ψ100.00	ψ55.55	Ψ170.00	Ψ200:00	\$1,000.00
	Dredging Tests: TPH-Diesel, TPH-Gas w/Btex, TPH-Oil	13	EA.	\$370.00	\$4,810.00	\$735.00	\$9,555.00	\$250.00	\$3,250.00
	Tests: PAH	13	EA.	\$210.00	\$2,730.00	\$575.00	\$7,475.00	\$250.00	\$3,250.00
24.0102	Tests: TCLP-metals, Metals, PCB's, HVOC's	13	EA.	\$370.00	\$4,810.00	\$800.00	\$10,400.00	\$250.00	\$3,250.00
24.0103	On-land disposal (contaminated material) w/o						•	 	
24.0104	Remediation On-land disposal (contaminated material) w/	1136	C.Y.	\$75.00	\$85,200.00	\$40.00	\$45,440.00	\$40.00	\$45,440.00
24.0105		1136	C.Y.	F.A. ++	\$60,000.00	\$52.00	\$59,072.00	\$67.00	\$76,112.00
24.0106	Remediation Offshore disposal	8910	C.Y.	\$5.00	\$44,550.00	\$10.00	\$89,100.00	\$15.00	\$133,650.00
26.0100	Steel sheet pile system, including steel sheet piles, wales, tie rods, turnbuckles, concrete cap, miscellaneous connections, extent as shown on sheets S-6 and S-7						222-222-22		051110000
26.0101	Steel sheet pile system	L.S.	L.S.	L.S.	\$550,000.00	L.S.	\$765,000.00	L.S.	\$514,122.00
27.0100	Cast-in-Place Concrete Pavement	 -			-			 	
27.0101	8" thick reinforced concrete pavement from gridlines 3 through 11, as shown on sheet S-6	L.S.	L.S.	L.S.	\$70,000.00	L.S.	\$42,000.00	L.S.	\$120,000.00
29.0100	Rubber Fender System, including hardware			_				 	
29.0101	Rubber Fender System from gridlines 3 through 11, as shown on Sheet S-6.	L.S.	L.S.	L.S.	\$58,000.00	L.S.	\$50,000.00	L.S.	\$58,000.00
30.0100	Mooring Bitts and Cleats	<u> </u>		1	4.0.000.00	44 500 00	A4 500 00	A4 050 00	¢0.750.00
	Mooring Bitts	3	EA.	\$4,000.00	\$12,000.00	\$1,500.00	\$4,500.00	\$1,250.00	\$3,750.00
	Cleats	3	EA.	\$1,500.00	\$4,500.00	\$600.00	\$1,800.00	\$650.00	\$1,950.00
31.0100	Protective Coating System	 		+	400 500 00	1.5	#80 000 00	+ 18	\$15,000.00
	Protective Coating System for steel sheet piles	L.S.	L.S.	L.S.	\$26,500.00	L.S.	\$80,000.00	L.S.	Φ15,000.00
	Electrical Work			40.00	#0 100 00	\$1.50	\$832.50	\$6.90	\$3.829.50
32.0102	1-1/4" PVC	555	L.F.	\$3.80	\$2,109.00	\$1.50	\$555.00	\$4.60	\$2,553.00
	3/4" PVC	555	L.F.	\$2.00	\$1,110.00 \$4,300.00	\$16.00	\$3,440.00	\$11.50	\$2,353.00
32.0103									
32.0103 32.0104	Trench and Backfill	215	L.F.	\$20.00					
32.0103 32.0104 32.0105		215 16 3	C.Y.	\$150.00 \$1,000.00	\$2,400.00 \$3,000.00	\$135.00 \$1.050.00	\$2,160.00 \$3,150.00	\$80.50 \$2,185.00	\$1,288.00 \$6,555.00

⁺⁺ Unit Price Bid not specified by Company

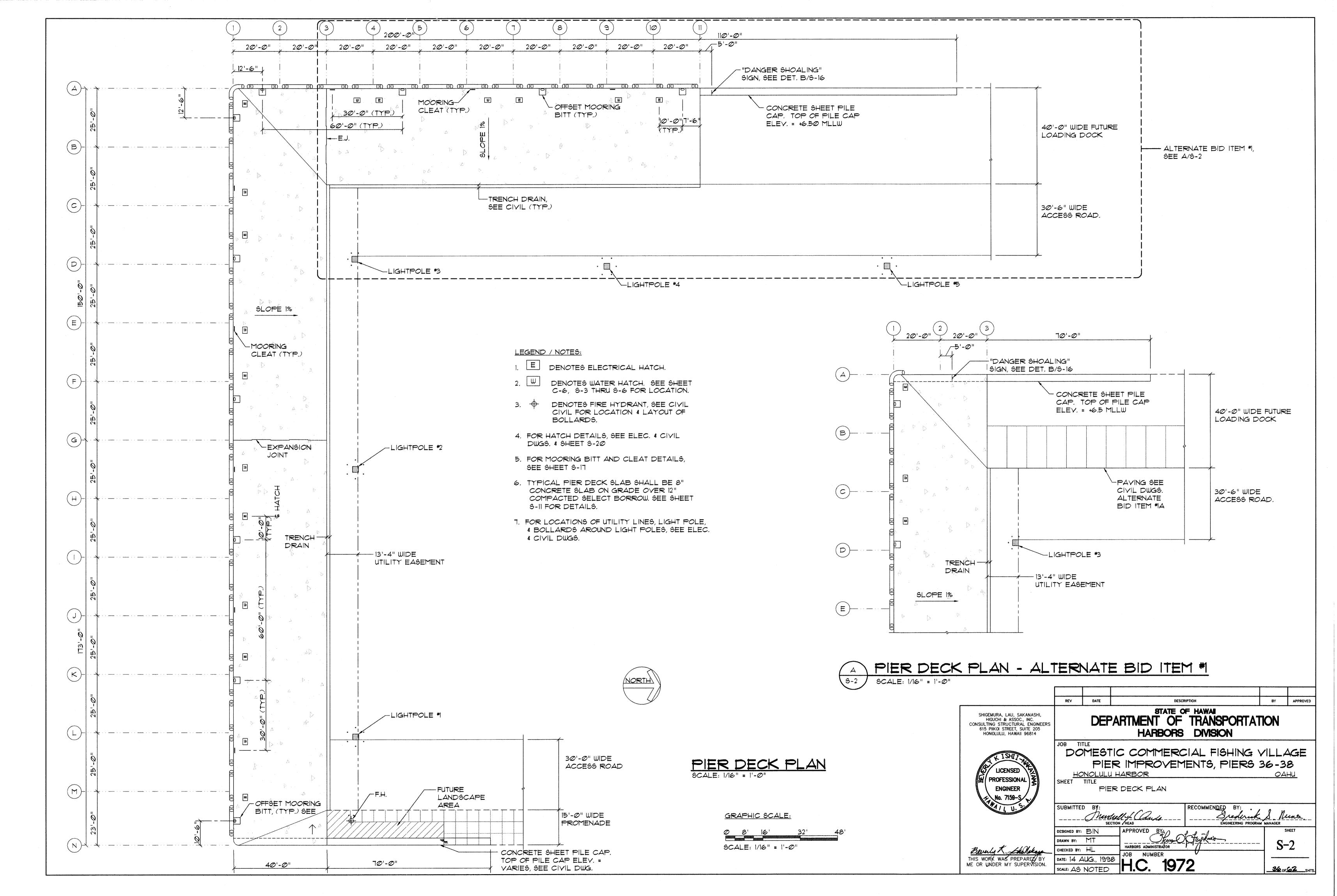
^{*} Incorrect Unit Price Bid

BID TABULATION FOR THE DOMESTIC COMMERCIAL FISHING VILLAGE, PIER IMPROVEMENTS, PIERS 36-38 HONOLULU HARBOR, OAHU, JOB H. C. 1972

BIDS OPENED: October 8, 1998

ENGINEER'S ESTIMATE: \$5,762,419.18

				Healy Tibbits Builders, Inc.		Dillingham Construction Pacific, Ltd. dba Hawaiian Dredging Construction Company		Engineer's Estimate	
ITEM NO.		APPROX. QUANTITY	UNIT	UNIT PRICE BID	AMOUNT BID	UNIT PRICE BID	AMOUNT BID	UNIT PRICE BID	AMOUNT BID
	ADDITIVE ALTERNATE NO. 1A: Add 18 parking stalls, including 2 inch thick asphaltic concrete pavement, prime coat, 6 inch thick aggregate base course, and 12 inch thick aggregate select borrow.		•						`
20.0100	Aggregate Base Course and Subbase Course								
20.0101	Asphaltic concrete pavement (2" thick)	306	S.Y	\$12.00	\$3,672.00	\$11.00	\$3,366.00	\$8.80	\$2,692.80
	Aggregate base course (6" thick)	306	S.Y.	\$20.00	\$6,120.00	\$10.00	\$3,060.00	\$16.50	\$5,049.00
	Aggregate base course (12" thick)	306	S.Y.	\$26.00	\$7,956.00	\$13.00	\$3,978.00	\$22.00	\$6,732.00
	SUM OF ADDITIVE ALTERNATE NO.1A				\$17,748.00		\$10,404.00		\$14,473.80
	ADJUSTED BID-SUM OF ALL ITEMS				\$5,155,010.20		\$5,211,959.50		\$4,746,045.48
····		In-State Cont	ractor Preference		\$5,155,010.20		\$5,211,959.50		\$4,746,045.48
	THE ENGLO		cts Preference		None		None		None
 .	ADJUSTED BASE BID				\$5,155,010.20		\$5,211,959.50		\$4,746,045.48



PLOT DATE: 05/21/98

INDICATIVE CONSTRUCTION COSTS

The data in the chart below represents estimates of current building costs in each respective market. Costs mas a consequence of factors such as site conditions, climatic conditions, standards of specification, market coretc. Values of U.S. locations represent hard construction costs based on U.S. dollars per square foot of gross flarea, while values of Canadian locations represent hard construction costs based on Canadian dollars per square.

LOCATION	OFFICES				RETAIL SHOPPING				HOTELS				HOSPITAL		INDUSTRIAL			PARKING				RESIDENTIAL					EDUCATION		
	PRIME		SECONDARY		CENTER		STRIP		5 STAR		3 STAR		GEN	GENERAL		WAREHOUSE		GROUND		BASEMENT		MULTI-FAMILY		SINGLE-FAMILY		ELEMENTARY		HIGH SCHOOL	
	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	
USA																							200			Tille	LOW	mon	
Boston	350	550	225	325	200	300	150	240	400	580	275	390	425	675	110	190	85	140	100	160	185	315	260	360	350	475	375	500	
Chicago	280	450	175	280	185	290	135	220	400	660	290	410	380	720	110	185	80	125	125	170	165	400	220	420	265	380	300	405	
Denver	235	300	165	200	95	150	80	175	300	500	225	325	400	550	90	150	75	100	135	175	115	235	115	450	275	320	300	400	
Honolulu	295	540	250	405	215	500	185	440	525	760	330	555	485	775	150	235	105	150	145	270	205	455	290	775	350	485	415	620	
Las Vegas	160	295	105	190	115	480	80	145	350	550	150	300	375	475	60	100	50	85	60	150	100	405	100	350	200	315	225	455	
Los Angeles	240	360	180	265	160	350	135	195	380	560	285	365	615	930	125	190	105	125	135	195	235	370	205	365	365	480	310	550	
New York	400	600	300	400	275	425	175	300	400	600	300	400	500	750	115	200	95	175	125	200	200	375	275	400	425	550	465	600	
Phoenix	200	325	140	195	120	200	80	150	350	550	175	250	425	550	60	100	45	70	70	110	100	250	120	450	225	350	275	400	
Portland	220	300	165	220	170	270	155	225	320	420	250	350	445	590	110	175	115	150	130	215	175	275	155	325	320	400	350	425	
San Francisco	350	550	300	400	290	420	250	360	460	660	400	550	500	750	175	250	140	160	260	300	390	575	275	440	350	430	375	475	
Seattle	210	255	145	205	140	310	115	165	275	390	230	260	430	550	100	130	100	120	140	200	165	275	170	290	300	330	390	500	
Washington	325	550	225	325	175	300	140	225	400	600	265	390	500	750	120	190	90	130	110	140	200	350	300	400	300	400	325	420	
CANADA												Y									100			100	500	400	323	420	
Calgary	235	295	190	285	220	310	110	160	300	450	190	245	550	720	85	145	75	95	75	120	140	215	125	315	185	260	220	310	
Toronto	220	295	200	285	240	295	125	170	420	525	215	280	525	735	90	110	80	115	120	160	200	240	310	395	225	245	245	290	

CONSTRUCTION UNEMPLOYMENT - AT A GLANCE

As we witness the effects of the COVID-19 pandemic, Rider Levett Bucknall is working to keep a pulse on the market. As of the release of this publication, construction unemployment rates, provided by the U.S. Bureau of Labor Statistics, have been published through May 2020. In the accompanying chart, a cyclical trend is apparent, where construction unemployment sees a rise during the first few months of a new year, typically as a result of harsh weather conditions during winter months. Over the last decade, the peak of this trend dialed down consistently as each year passed. However, at the onset of the coronavirus, we saw construction unemployment rise to 6.9% during March; a higher rate than expected despite the anticipated cyclical peak. The rate continued to rise in April to 16.6%; the highest rate since March 2012. This dramatic influx of unemployment came as a result of construction job sites shutting down and trades being furloughed or laid off until it became safe to work again. As stay-at-home orders began to lift, more job sites opened back up and the construction unemployment rate reported at 12.7% in May 2020.

We anticipate that construction unemployment will continue to decrease as job sites open back up, though we do not expect that the rate will get as low as it was, pre-pandemic.

