

PUBLIC BUILDING COMMISSION OF CHICAGO

ADDENDUM NO. 02 TO CONTRACT NO. 1504
For

31st Street Harbor – Landside / Marina
3155 S. Lake Shore Drive
NEW CONSTRUCTION

DATE: Friday, March 26, 2010

NOTICE OF CHANGES IN CONTRACT DOCUMENTS

The following changes are hereby made in the Contract Documents.

Changes to Book 1 PROJECT INFORMATION, INSTRUCTIONS TO BIDDERS, AND EXECUTION DOCUMENTS:

- Change 1: Rescheduled Bid Opening Time: **Thursday, April 1, 2010 at 11:00AM**
- Change 2: Replace Book 1, Part IV. A (page 14), Unit Price Bid Form with Revised Unit Price Bid Form, Addendum 2, dated March 26, 2010
- Change 3: Add Book 1, Part IV, Site Work Allowance Form.
- Change 4: Book 1, Part V. A. Basis of Award 2. Award Criteria Formula, Line 1. is revised to read "Base Bid, in figures (from line 16 of Unit Price Bid Form, dated March 26, 2010) \$_____"

Changes to Book 3 TECHNICAL SPECIFICATIONS:

- Change 5: Table of Contents
A. Delete "00750 Special Conditions, Pages 1-2"
B. Add "07115 Bituminous Dampproofing, Pages 1-2," included in Book 3.
- Change 6: Section 00750 Special Conditions
A. Remove section in entirety.
- Change 7: 02000 Floating Dockage System
A. Paragraph 2.04 D: Nuts: Nuts shall conform to the requirements of ASTM A-563 and shall be **zinc-coated** in accordance with **ASTM F-1941**. The grade of the nuts shall be compatible with the specified grade of bolt, and structurally adequate for the intended loading. All nuts shall be of a single grade to prevent misplacement.
B. Paragraph 3.04.C.1: Remove "The pier system including bridges and anchorages shall be capable of withstanding waves up to 3.0 feet without damage." and replace with "The pier system including bridges and anchorages shall be capable of withstanding wave agitation as described in paragraph 3.03."
- Change 8: 02272 Separation/Filtration Geotextile
A. Replace "Commissioner's" with "Commission" in 2.2 B and 3.1
B. Replace "3.6.2" with "B."
C. Replace "Commissioner's" with "Commission" in 3.6 B.
- Change 9: 02315 H Section Drive Steel Piles
A. Section 1.2.2 at the end of the paragraph remove "standard indicated in Section 01450 of these specifications." And replace with "provided in Section 3.7."

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- B. Section 3.7.C in the first sentence insert after piles "for the garage structure". At the last sentence add "Test piles for the underpass structure can be incorporated into the structure according to the provisions of IDOT SSRBC Article 512.15."
- Change 10: 02584 Underground ducts and Utility Structures
- A. Paragraph 1.1 B, modify to read "B. All sections of Division 2, **Division 3**, and Division 16 apply to this section.
 - B. Paragraph 3.4.B, modify to read "...Comply with **relevant** Division 2 Sections." (NOTE: the rest of that line for 3.4.B is deleted).
 - C. Paragraph 3.4.C, modify to read "...according to **relevant** Division 1, 2, and 3 Sections." (NOTE: the rest of that line for 3.4.C is deleted).
- Change 11: 02783 Concrete Pavers
- A. Paragraph 2.2.a.1.a: Add **3) Size: 7.86" x 3.93" x 3.15"**
- Change 12: 02870 Site Furnishings
- A. Replace section in entirety with attached revised section.
- Change 13: 02881 Play Equipment and Structures
- A. Revise 1.2.B to read "Play equipment manufactured by Landscape Structures, and distributed by NuToys Leisure Products, to be supplied by the Owner. Contractor shall receive and install play equipment. Play equipment will be delivered curb side by the playground manufacturer at a location determined by the Contractor. Contractor shall be responsible for unloading and verification of complete order and condition. Upon receipt of delivery, Contractor shall be responsible for equipment until the play area is accepted by the Owner."
- Change 14: 04810 Unit Masonry assembly
- A. Section 3.8.A to be replaced with:
"Quality Control will be performed by the Commission's testing agency for the following."
- Change 15: Insert new Section 07115 Bituminous Dampproofing
- Change 16: 07140 Clear Penetrating Sealers
- A. Revise Section 2.1.B.1: to read "Evonik Degussa Corporation" in lieu of Degussa Corporation"
 - B. Revise Section 2.1.B.2: to read "BASF" in lieu of Degussa.
 - C. Revise Section 2.1.B.3: to read "BASF" in lieu of Degussa.
 - D. Revise Section 2.1.B.4: to read "Iso-Flex 618-40VOC" in lieu of Iso-Flex618-40
- Change 17: 07141 Coal Tar Pitch Waterproofing
- A. Add Section "2.1.B.3. Commercial Innovations Inc."
- Change 18: 07412 Insulated Metal Wall Panel
- A. Section 2.1.A Delete "Centria Versawall" and "as manufactured by H.H. Robertson or an approved equal."
 - B. Section 2.1.D Delete "Versacor Plus,"
 - C. Add Section:
2.3 ACCEPTABLE MANUFACTURERS:
 1. H.H. Robertson Centria Versawall
 2. Alucobond Technologies
 3. HIS High Standards Inc.
 4. Reynolds Reynobond
- Change 19: 08333 Overhead Coiling Service Door
- A. Section 2.1.A.1 Remove "Cornell Weatherguard "
 - B. Section 2.1.E Remove "Electric motor as specified" and replace with Hand Chain Operator
 - C. Remove Section 2.2 and 2.3 in its entirety and replace with:

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"2.2 MANUAL DOOR OPERATORS

- A. Provide manual operators except where electric door operators are indicated. When not shown, provide chain hoist operator unit.
- B. Chain Hoist Operator: Provide manual chain hoist operator guard, and geared reduction unit with maximum 35 lbs. pull for door operation. Design chain hoist with self-locking mechanism allowing curtain to be stopped at any point in its travel and to remain in position until movement is reactivated. Furnish alloy steel hand chain with chain holder secured to operator guide.

2.3 FIRE OPERATION

- A. Automatic Closing: Provide automatic closing device and governor, operating when activated by temperature rise and melting of 160 degree F. fusible link. Construct governor unit to be inoperative during normal door operations. Design release mechanism for easy resetting.
- B. In addition, provide manufacturer's standard UL labeled smoke detectors and electromechanical door holder release devices.
- C. Fabricate unit to permit manual lifting of curtain for emergency exit after automatic closing, with curtain returning to closed position when released."

D. Add Section 2.4

"2.4 Manufacturers

- 1. Atlas Door, Division of Clopay Building Products Co., Inc.
- 2. Cornell Iron Works, Inc.
- 3. Overhead Door Corp.
- 4. Raynor Worldwide
- 5. Wayne-Dalton Comp

E. Delete Section 3.4 in its entirety.

Change 20: 08910 Aluminum Window Wall

- A. Replace section in its entirety with attached revised section

Change 21: 09300 Tile

- A. Revise 2.1A to read "Unglazed Vitreous Ceramic Tile: Comply with the requirements of ANSI A137.1. 4" x 4" x 1/4", 12" x 12" x 1/4", and 18" x 18" x 1/4, location per drawings"
- B. Revise 2.1A1 to include "c. Florim USA"

Change 22: 09681 Carpet Tile

- A. Revise 2.1C to read "CPT 1 Type: Pattern Loop, 100% Solution Dyed, Stitches Per Inch 12, Tufted Pile Height 7/32" high, 4/32" low"; CPT 2 Type: Pattern Loop, 100% Solution Dyed, Stitches Per Inch 10, Tufted Pile Height 6/32"

Change 23: 15110 Valves

- A. Paragraph 3.2.A.1: delete "or gate or plug valves".

Change 24: 15190 Fueling Station

- A. Replace Section 2.9 C. with the following:
 - "Fueling Inventory and Control Kiosk
 - 1. Prefabricated buildings supplier shall submit sufficient data to enable approval to be given. As a minimum: Design drawings and structural stamped calculations to meet local code and conditions, applicable certifications, catalog information, and color samples showing equal range of variety.
 - 2. Design Loads: Meet Chicago Building Code, 2009 Edition and allowable materials.
 - 3. Approved Suppliers:
 - a. Porta-King Building Systems

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- b. Keystone Structures, Inc.
- c. Merchandising Frontiers, Inc.
- 4. 6'0" W x 12'0"L x 8'6"H prefabricated metal building with fuel inventory monitoring system and leak detection outputs.
 - a. Exterior finish to be a non-corroding clear anodized aluminum. All anodized aluminum surfaces to carry a five-(5) year warranty from surface deterioration caused by oxidation. Interior finish to match exterior. Color to be selected.
 - b. Floor: Floor structure to be an integral part of the building and constructed of marine-grade plywood.
 - c. Doors: Doors to be of anodized aluminum. Panel finish to match interior and exterior building walls. Door to swing outward and shall include knobbed lockset with key. Provide a half-height horizontal sliding transaction window with fixed window above within door leaf.
 - d. Windows and Glazing: Windows shall have anodized aluminum frames and inserts and to be industrial quality with active window panel to slide horizontally on stainless steel, ball-bearing rollers. Windows to be glazed with clear tempered safety glass. Windows to include inside positive locking device.
 - e. Roof: Exterior waterproof roofs include ribbed anodized fascia trim, matching structural with integral, self-contained gutters.
 - f. Waterproofing: All elements, including but not limited to floors, windows, doors, and roof, must be watertight."

Change 25: 15710 Heat Exchangers

- A. Paragraph 15.5.B: Delete "Other manufacturers' products with equal performance characteristics may be considered. Refer to Division 1 Section "Substitutions.""
- B. Paragraph 2.2.D: insert The **Minimum** 18 Gauge.....
- C. Paragraph 3.2.B: Delete
- D. Paragraph 3.3.C: Delete "threaded (heated-fluid side) or" and, delete "(high temperature hot water side)".
- E. Paragraph 3.2: Delete D. and E.

Change 26: 15725 Modular Indoor Air Handling Units

- A. This specification applies to both AHU-1 and MAU-1.

Changes to DRAWINGS:

Change 27: Sheet ME1.1 SLIP LAYOUT PLAN (*attached*)

- A. Reissue sheet with modified Pier A and Fishing Pier 1 (FP-1).

Change 28: Sheet ME1.2 FUEL DOCK PLAN & DETAILS (*attached*)

- A. Reissue sheet with modified Pier A and Fishing Pier 1 (FP-1).

Change 29: Sheet ME3.1 ELECTRICAL PLAN (*attached*)

- A. Reissue sheet with modified Pier A and Fishing Pier 1 (FP-1).

Change 30: Sheet ME4.1 ELECTRICAL DETAILS(*attached*)

- A. Modify feeder legend for Substation and Panels feeding Pier A to accommodate additional slips.

Change 31: Sheet ME5.1 ICE SUPPRESSION SYSTEM(*attached*)

- A. Reissue sheet with modified Pier A and Fishing Pier 1 (FP-1).

Change 32: Sheet ME7.1 DOCK UTILITIES SANITARY & WATER (*attached*)

- A. Reissue sheet with modified Pier A and Fishing Pier 1 (FP-1).

Change 33: Sheet C2.1 SITE DEMOLITION PLAN

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- A. Add Note 21 to read: "The Contractor must walk through the project with the Commission Representative prior to construction to confirm the count of signs to be removed, removed and salvaged, and relocated. Signs not identified on the Site Demolition Plan but located within the project limits may be removed, removed and salvaged, or relocated as directed by the Commission Representative."
- Change 34: Sheet C2.3 SITE DEMOLITION PLAN (attached)
- A. Add Note 2: "Verify reinstallation location in the field, subject to the approval of the Commission Representative."
 - B. Add Note "Remove and Relocate McCormick Place Parking Directional Sign"
 - C. Add Note "Remove and Relocate E2 E3 Arrow Signs"
 - D. Add Note "Remove and Relocate Lakefront Trail Signs"
 - E. Add one (1) additional Remove and Relocate Sign (See Note 2).
 - F. Add three (3) additional RS SIGN (to CPD)
 - G. Revise call-outs for "RS LPO (to CDOT)" to read "RS LPO (BY OTHERS)"
- Change 35: Sheet C4.8 SITE DRAINAGE PLAN
- A. Revise sheet reference for Subdrain and Cleanout to C4.20C.
- Change 36: Sheet C4.11 DRAINAGE PROFILES
- A. Revise pipe material labels to be "RCP" for all sewers 24" and greater in diameter.
 - B. Revise pipe size to 48" and material to DIP for INV W of O-120
- Change 37: Sheet C4.12 DRAINAGE PROFILES
- A. Revise pipe material labels to be "RCP" for all sewers 24" and greater in diameter.
- Change 38: Sheet C4.13 DRAINAGE PROFILES
- A. Revise pipe material labels to be "RCP" for all sewers 24" and greater in diameter.
- Change 39: Sheet C4.14 DRAINAGE PROFILES
- A. Revise pipe material labels to be "RCP" for all sewers 24" and greater in diameter.
- Change 40: Sheet C4.20C STORM SEWER DETAILS
- A. Revise sewer diameter in Detail 5 to be 48" for the DIP.
- Change 41: Sheet C4.20G OUTFALL DETAIL
- A. Revise detail numbering for Outfall Enlarged Plan to be "1" and Outfall Enlarged Profile to be "2".
 - B. Revise sewer diameter in Detail 3 to be 48" and pipe thimble diameter to be 60".
- Change 42: Sheet C6.1C SITE PAVING PLAN
- A. Add Reinstall McCormick Place Parking Directional Sign
 - B. Add Reinstall E2 E3 Arrow Signs
 - C. Add Reinstall Lakefront Trail Signs
- Change 43: Sheet C6.2D (attached)
- A. Add Structure Adjustment Detail.
- Change 44: Sheet LR3.1 PLANTING SCHEDULE, SHEET INDEX AND NOTES (*changes via this narrative, including addendum 1*)
- A. Revise tag "PVI – Pycnanthemum virginianum" in Planting Schedule, Forbes, Abbr. to read "PVR - Pycnanthemum virginianum "
- Change 45: Sheet LR3.2 PLANTING PLAN – Addendum 1
- A. Revise tag "81" in Planting Quantity_Base, CSI, Cornus sericea 'Isanti' to read "80"
 - B. Revise tag "11-MPE" at NE corner of Parking Garage to read 13-MPE
 - C. Revise tag "99-ESP" at NE corner of Existing Promenade Entrance to read "96-ESP"
- Change 46: Sheet LR3.3 PLANTING PLAN – Addendum 1
- A. Revise tag "46-ESP" at Green Level Plaza Walk to read "47-ESP"
 - B. Revise tag "53-SPN" at Dogwood Thatch to read "53-SOR"
- Change 47: Sheet LR3.4 PLANTING PLAN (*changes via this narrative only, including addendum 1*)
- A. Revise tag "10-CVW" at SW corner of parking lot to read "9-CVW"
- Change 48: Sheet LR3.2 ALT 2 PLANTING PLAN – Addendum 1

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- Change 49: Sheet LR3.3 ALT 1 PLANTING PLAN – Addendum 1
- A. Revise tag “99-ESP” at NE corner of Existing Promenade Entrance to read “96-ESP”
 - B. Revise tag “17-SNI” at East edge of playground to read “17-SIN”
 - C. Revise tag “3-VLE” at NE corner of Parking Garage to read “1-VLE”
- Change 50: Sheet LR3.5 DETAILS – PLANTING ON STRUCTURE
- A. Revise tag “55-POP” at West edge of Parking Garage to read “56-POP”
 - B. Revise tag “46-ESP” at Green Level Plaza Walk to read “47-ESP”
- Change 51: Sheet LR3.5 DETAILS – PLANTING ON STRUCTURE
- A. Revise tag “DETAILS –PLANTING ON STRUCTURE” in Title box to read “DETAILS – SPECIALITY PLANTING”
 - B. Detail 8 – Revise tag “PVI – Pycnanthemum virginianum” in Zone A and Zone C to read “PVR - Pycnanthemum virginianum ”
- Change 52: Sheets A1.01 and A1.01-ALT Parking Level Sigange and Overall Plan
- A. Add sign 15/D on East wall of 4hr fire rated wall.
 - B. Add sign (2)15/D along grid 10 at A1.01-ALT only.
- Change 53: Sheet A2.01 Garage Overall Reflected Ceiling Plan
- A. Add note to read “All above symbols are extracted from MEP Drawings. Refer to MEP for any discrepancies.
- Change 54: Sheet A3.01 Garage Building Elevations:
- 1. Detail 1- delete note “Wabo Inverseal” and replace with “Closed Cell Neoprene Expanded Rubber.”
- Change 55: Sheets A4.01 Garage Building sections
- 1. Detail 3 – move load bearing wall leader line 2’-0” from outside face of CMU.
 - 2. Add note to read “For load bearing wall extent see 1/S3.07.
- Change 56: Sheets A4.02 Garage Building Sections:
- 1. Section 1 – section cut reference should read “6/A12.01 sim.” In lieu of “2A/A6.01”
 - 2. Add Vestibule profile at grid B and add note “See plan for vestibule locations and dimensions”
- Change 57: Sheets A6.04 and A6.05 Enlarged Terrace Plans/Sections:
- A. For handrail reference – revise to read “LR1.11” in lieu of “1/LR1.24.”
 - B. For concrete steps reference – revise to read “LR1.11” in lieu of “8/LR1.14.”
- Change 58: Sheets A6.13 Details 1a, 3a, 6a
- A. Revise liquid applied dampproofing note to read: Liquid applied dampproofing, wrap up and over concrete curb.
- Change 59: Sheet A8.01 enlarged Garage Entry/Exit Lanes and Misc. Details:
- A. Plan 1- Add reference note “See 9/S2.03 for Removable Bollard Detail.”
- Change 60: Sheets A12.01 and A12.01-ALT Door/Opening Schedule and Details
- A. Detail 6 – Revise “Z-type” lintel to W21x44.”
- Change 61: Sheet A12.11
- A. Two new hardware sets are added.
 - 1. Set 13: Storeroom lockset, 4 ½”x4 ½” hinges (3 pairs), surface closers (2), fire rated panic hardware (2), stabilizer set, overhead stop, kick plate, astragal
 - 2. Set 14: Storeroom lockset, 4 ½”x4 1/2” hinges (1.5 pairs), surface closer (1), fire rated panic hardware (1), wall stop, kick plate
 - B. Hardware Set 8: Revise Closer type to Surface Mounted.
 - C. Door 103 A: Replace Hardware Set No. 1 with Hardware Set No. 13
 - D. Door 103 B: Replace Hardware Set No. 2 with Hardware Set No. 14
- Change 62: Sheet S1.02B Foundation Plan Area B
- A. Revise length of rebar from “20’-0” top” to “50’-0” top” with full tension splice as required at Both sides of Harbor service along grid C.
- Change 63: Sheet S1.03B Parking Level Plan Area B
- A. Add W21x44 lintel at door openings at 4hr fire wall between grids 26 and 25.

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- Change 63: Sheet S3.02 Retaining Wall Section and Details
 - B. Add note: "See 8 and 9 on sheet S3.07."
- Change 64: Sheet S3.07 Enlarged Mezzanine Plans, Sections and Details (attached)
 - A. Remove note "Arch. Dwgs."
 - B. Add waterproofing membrane below Elevator Pit and fire stop.
- Change 65: Sheet MS1.1 MECHANICAL SITE PLAN
 - A. Geothermal pipe size revised from 6" to 8" for both Circuits.
- Change 66: Sheet M1.1B GARAGE LEVEL PARTIAL VENTILATION PLAN – B
 - A. Note added: **"ALL EF-1 DUCTWORK WITHIN THE GARAGE SHALL BE INSULATED WITH 1-1/2" THICK FIBERGLASS WRAP INSULATION WITH ALL SERVICE JACKET."**
- Change 67: Sheet M1.1D_ALT-1 GARAGE LEVEL PARTIAL VENTILATION PLAN - D ALTERNATE 1 (attached)
 - A. This sheet is added.
- Change 68: Sheet M2.1D_ALT-1 GARAGE LEVEL PARTIAL PIPING PLAN - D ALTERNATE 1 (attached)
 - A. This sheet is added.
- Change 69: Sheet M2.1E_ALT-1
 - A. Hot Water Supply and Return Pipe sizes along east wall between Column Lines 10 and 4 revised from 2" to 2-1/2".
 - B. Pipe sizes to each Unit Heater text 'Typ of 3' deleted.
- Change 70: Sheet M2.1B GARAGE LEVEL PARTIAL PIPING PLAN – B (*attached*)
 - A. Pipe sizes revised.
- Change 71: Sheet M2.1C GARAGE LEVEL PARTIAL PIPING PLAN - C
 - A. Hot Water Pipes Supply and Return along east of the building between Column Lines 15 to 26 is revised from 2-1/2" to 4"
 - B. Hot Water Pipes Supply and Return Feeding GUH-13, 15, & 16 revised from 1-1/4" to 1-1/2".
- Change 72: Sheet M2.1D GARAGE LEVEL PARTIAL PIPING PLAN – D (*attached*)
 - A. Pipe sizes revised.
- Change 73: Sheet M3.1 GEOTHERMAL PIPING SECTION
 - A. Closed Loop Condenser Water Design requirements; Note 3 is revised to read: **"HEATING: 1,820 MBH PEAK HEAT EXCHANGED BASED ON 35F LAKE AMBIENT TEMPERATURE, 930 GPM, 30.4°F LWT / 34.95°F EWT, 30% BY VOLUME INHIBITED HVAC GRADE PROPELYNE GLYCOL. HEAT EXCHANGER DESIGN (SIZING, NUMBER OF PLATES, SURFACE AREA, LAYOUT AND SPACING) SHALL BE SUCH THAT ICE WILL NOT FORM DURING EXTENDED PEAK HEATING DEMAND. LAYOUT AND SIZING SHALL TAKE INTO ACCOUNT THE BOAT DOCK DEICING AERATION SYSTEM (AIR BUBBLERS) USED TO KEEP ICE FROM FORMING AT THE DOCK SUPPORTS. INCREASE HEAT EXCHANGER SURFACE AREA AS REQUIRED TO ACCOUNT FOR DEICING AERATION IMPACT. SEE MARINE DRAWINGS FOR LOCATIONS OF ALL DEICING AERATORS. MAXIMIZE SEPARATION DISTANCES FROM DEICING AERATION SYSTEM. DEICING AERATION SYSTEM WILL OPERATE THROUGHOUT THE ENTIRE HEATING SEASON. COOLING: 2,000 MBH PEAK COOLING HEAT EXCHANGED BASED ON 74F LAKE AMBIENT TEMPERATURE, 930 GPM, 75°F LWT / 85.5°F EWT, 30% BY VOLUME INHIBITED HVAC GRADE PROPELYNE GLYCOL. NOTE THE LOOP LOAD IS HEATING DOMINANT. SEE SPECIFICATION FOR MAXIMUM MONTHLY HEATING AND COOLING LOADS. NOTE AN ELECTRIC BOILER IS PROVIDED AS THE HEATING SAFETY FACTOR ON THE PROJECT. SIZING OF THE LOOP/HEAT EXCHANGERS SHALL NOT TAKE INTO ACCOUNT POTENTIAL HEAT PROVIDED BY THE BOILER.**

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SIZING OF THE LOOP (HEAT EXCHANGERS, PIPING, ETC) SHALL BE SUCH THAT THE PRESSURE DROP OF THE COMPLETE LOOP SHALL NOT EXCEED THE LOOP PUMP HEAD (80' TDH). SEE SCHEDULES FOR PUMPS AND WATER TO WATER HEAT PUMP PRESSURE DROP / FLOW REQUIREMENTS.”

- B. Note 5 is revised to read: “HEAT EXCHANGER TYPE, MATERIAL AND CONSTRUCTION SHALL STAINLESS STEEL FLAT PLATE LASER WELDED TYPE. HEAT EXCHANGERS SHALL BE BY SLIM JIM, AWEB, ENVIROPLATES, OR MAJOR GEOTHERMAL. PLATE/HEAT EXCHANGER CONNECTIONS SHALL BE FLANGED”
- C. Note 7: add “MINIMUM PIPE (PE3408 HDPE W/ MIN. CELL CLASSIFICATION 45434 PER ASTM D3035-93) /FITTING (ASTM D2683/ASTM D3261) PRESSURE RATING SHALL BE 110 PSIG. ALL PIPE/FITTING JOINING WILL BE HEAT FUSED OR ELECTRO FUSED IN ACCORDANCE WITH ASTM D2610/ASTM D2683 AND THE PIPE MANUFACTURERS JOINING REQUIREMENTS FOR MARINE APPLICATIONS. THE INSTALLER SHALL BE HEAT/ELECTRO-FUSION CERTIFIED AND HAVE 5 YEARS EXPERIENCE. PROVIDE COPY OF INSTALLERS CERTIFICATION. ACCEPTABLE PIPE/FITTING MANUFACTURERS: ISCO INDUSTRIES, CENTENNIAL PLASTICS, CHARTER PLASTICS. INSTALL PIPING PER MANUFACTUERERS RECOMMENDATIONS.”
- D. Note 18 is revised to read: “PROVIDE ANCHORS ALONG LAKE BOTTOM TO SECURE PIPING AND HEAT EXCHANGER ASSEMBLIES. SIZING, SPACING AND CONNECTIONS TO PIPING BY GEOTHERMAL DESIGNER / HEAT EXCHANGER MANUFACTURER. ANCHORS SHALL BE DESIGNED FOR PERMANENT MARINE APPLICATIONS AND SHALL NOT DAMAGE PIPE EQUIPMENT OVER TIME. ANCHORS TO HEAT EXCHANGER SHALL BE REMOVABLE FOR MAINTENANCE.”
- E. Added Energy Exchanged between Heat Exchangers and the Lake:

MONTH	COOLING	HEATING
OF THE	COIL	COIL
YEAR	LOAD	LOAD
	(KBTU)	(KBTU)
JANUARY	0	560056.6
FEBRUARY	0	496117.2
MARCH	0	374871.7
APRIL	0	109752.7
MAY	136555.5	79140.32
JUNE	338997.4	30034.96
JULY	501028.5	39776.32
AUGUST	452880.3	41322.4
SEPTEMBER	222055	32310.24
OCTOBER	0	86318.72
NOVEMBER	0	256866.5
DECEMBER	0	571170.6

- Change 74: Sheet M4.2 HYDRONIC PIPING FLOW DIAGRAM SOURCE SIDE
 - A. Geothermal pipe sizes on Source Side to Lake Heat Exchangers revised from 6” to 8” for both Circuits.
 - B. Circuit Setter added on Geothermal bypass Line around Pumps.
- Change 75: Sheet M4.3 HYDRONIC PIPING FLOW DIAGRAM LOAD SIDE (attached)
 - A. Flow Diagram revised.

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- Change 76: Sheet M5.1 MECHANICAL DETAILS
- A. Storage Buffer Tank Piping Detail 9 added (*Sketch MSK-1 attached*)
 - B. Makeup Air Detail 10 added (*Sketch MSK-2 attached*)
- Change 77: Sheet M5.2 MECHANICAL DETAILS
- A. Details 4 AHU-1 and MAU-1 Stacked Dual Temperature Coil Piping Detail '2-Way Modulating Control Valve Pressure Independent' is revised to read **"2-WAY MODULATING CONTROL VALVE"**.
- Change 78: Sheet M7.1 VENTILATION SCHEDULE
- A. Unit Heaters provide TRUCONE Air Outlet accessory for all Vertical Unit Heaters.
 - B. ACU-2 provide Programmable Thermostat.
- Change 79: Sheet M7.2 MECHANICAL SCHEDULES (*attached*)
- A. Buffer/Storage Tank Schedule Added.
 - B. Air Separator AS-1 GPM revised to 1000 with 1 Feet Pressure Drop and 8" Inlet.
 - C. Pump GP-2 is no longer backup; Remark 2 deleted.
 - D. Fintube Radiators GPM revised to 1 GPM and size of 9' heaters revised to 8'.
- Change 80: Sheet M8.1 MECHANICAL ROOM ENLARGED PLAN (*attached*)
- A. Buffer Tank added.
 - B. Pipe Sizes revised.
- Change 81: Sheet IAS4.01 HYDRONIC LOOP - FLOW DIAGRAM, POINTS LIST
- A. Buffer Tank added before Point 21 (see Sheet M4.3 for location).
 - B. Point 74 added HW Loop differential Pressure at GUH-1 with Analog Input, Trending and Screen Display (see Sheet M4.3 for location)
- Change 82: Sheet IAS4.03 HYDRONIC & GROUND LOOPS SEQUENCES (*attached*)
- A. Sequence of Operations – WSHP Central Plant revised.
- Change 83: Sheet IAS4.04 AHU-1 – CONTROL DETAILS
- A. Valve Modulate 32 deleted.
 - B. Supply Water Temperature 32 deleted.
 - C. CO2 Point changed from 63 to **66**
 - D. CO2 Points: Added Digital Output, Trending, Screen Display, Out of Range and Maintenance
- Change 84: Sheet IAS4.05 MAU-1 – CONTROL DETAILS (*attached*)
- A. Points Summary Header: Point 43 added, Points 25 and 26 revised.
 - B. VAV with Hot Water Reheat and Hot Water Fintube Controls added.
- Change 85: Sheet IAS4.06 VAV BOXES, VFD INTERFACE - CONTROL DETAILS (*attached*)
- A. Points List Revised
- Change 86: Sheet IAS4.07 EF, ACU, AND UH - CONTROL DETAILS
- A. Second Wall controller Added to ACU-1
 - B. On Points List, Critical is added to ACU-1 & ACU-2
- Change 87: Sheet IAS4.08 GARAGE GEF AND GUH – CONTROL DETAILS
- A. Add these paragraphs to the Sequence of Operation: **"F. When the outdoor air temperature is below 35°F, limit the number of fans that operate simultaneously to four (4), adjustable. Whichever zones have the highest CO or NO₂ level shall take precedence."**; and **"G. Once per day, operate fan for a 10-minute period to provide some ventilation to the space. Alternate among the 11 garage exhaust fans, for the ventilation mode, open dampers that will provide the greatest ventilation to the space. For example, when operating GEF-1, open IAD-10 and IAD-11 at the opposite end of the garage; for an exhaust fan in the middle of the garage, open intake dampers on both ends of the garage."**
 - B. Sequence of Operations D revised to read: **"D. When any sensor reaches its low level alarm setpoint (2 ppm for NO₂, 35 ppm for CO), enable the associated exhaust fan (LOW SPEED) and open the associated intake dampers. When any zone reaches its high level alarm setpoint (4 ppm for NO₂, 70 ppm for CO), ENABLE ASSOCIATED FAN"**

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- (HIGH SPEED) generate an alarm at the workstation and enable the siren/strobe lights.”
- C. Sequence of Operations E revised to read: “E. Each space temperature (from the LonWorks communicating thermostats controlling GUH-1 thru 30) will be associated with a specific exhaust fan (GEF-1 thru GEF-11) and three specific intake air dampers (IAD-1 thru 11) similar to the CO/NO2 zones. When any space temperature exceeds 85°F (adjustable), enable the associated exhaust fan(HIGH SPEED) and open the associated intake dampers.”
 - D. Point 11 revised to read: GEF-1 THRU GEF-11 Start/Stop Speed 1.
 - E. Point 14 added to Eleven Exhaust Fans to read: GEF-1 THRU GEF-11 Start/Stop Speed 2 (digital Output, Trending, Screen Display).
 - F. Note Added: “PROVIDE SECURITY COVER ON ALL TEMPERATURE/NO2/CO SENSORS WITHIN THE GARAGE.”
- Change 88: Sheet C7.1 SEWER DEMOLITION AND ADJUSTMENT PLAN (*attached*)
- A. Revisions to existing structure adjustments.
 - B. Added existing structure grouting/filling locations.
- Change 89: Sheet EO.1 ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS
- A. The following abbreviations were added to the list, in alphabetical order: “CPD – Chicago Park District” and “DEO – Department of Electrical Operations (under CDOT)”.
- Change 90: Sheet ED1.2 ELECTRICAL DEMOLITION SITE PLAN (*attached*)
- A. Revisions to drawing to indicate coordination with DEO. Added and modified sheet and keyed notes associated with the coordination with DEO.
- Change 91: Sheet ED1.3 ELECTRICAL DEMOLITION SITE PLAN
- A. Sheet Note #4 added to read: “Contractor to coordinate with DEO on all DEO work.”
 - B. Keyed Note #1 was modified to read: “...The black, Davit-style light fixtures are the property of the DEO. The DEO will be responsible for their removal. All others are to be returned to CPD (approximately 17). Existing pay-on-foot stations to be removed, salvaged, and reused. Refer to ES sheets for new locations.”
- Change 92: Sheet ES1.4 ELECTRICAL SITE PLAN (*attached*)
- A. Added (1) utility transformer pad and ductbank to provide step-down power connection for DEO equipment.
 - B. Added associated notes for utility coordination at both utility transformers.
- Change 93: ES2.5 ELECTRICAL SITE DETAILS (*attached*)
- A. Modified notes on Details 1, 4, and 6 to coordinate with Utility requirements.
 - B. Added Detail 7 to coordinate with Utility requirements.
- Change 94: ES1.5 ELECTRICAL SITE PLAN
- A. Plan #2: Adjusted F9 Light Pole location to match new Site Geometry, by shifting south 2’-3’ (located at lot exit closest to handhole LPN1.6)
- Change 95: Sheet ES1.7 ELECTRICAL SITE DETAILS
- A. Added Keyed Note #13 to read: “Provide a spare (1) 5”C, concrete encased ductbank for 10 feet to the north of the utility transformer for future utility connections. Install per utility SEL requirements.”
 - B. Keyed Note #13 added to enlarged plan #1 and associated with relocated utility transformer.
- Change 96: Sheet ES2.3 ELECTRICAL SITE DETAILS
- A. Detail #6 – modified detail notes to read: “1. Nominal 15’0” x 12’0” x 9’0” (headroom); 2. Construct manholes for ComEd primary service in accordance with ComEd Standard C4381.DB.”
- Change 97: Sheet E4.1 ELECTRICAL RISER DIAGRAM
- A. Modified Feeder Tag to ATS-EM to read 4-1/OS.
 - B. Modified Feeder Tag to FPC to read 4-8S.
- Change 98: Sheet P1.1B GARAGE LEVEL PARTIAL PLUMBING SUSPENDED PLAN – B

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- A. Revised all notes for Drain Valves for shower supplies to "Provide drain valves behind stainless steel lockable 8"x8" water tight access door, similar to Acudor Model ADWT-8x8 SS."

Changes to SUPPLEMENTAL VOLUME:

Change 99: Table of Contents

- A. Add "4. Geotechnical Report – 31st Street Harbor Parking Garage"

Change 100: Insert new exhibit Geotechnical Report – 31st Street Harbor Parking Garage

Questions and Answers:

Question 1:

On ME8.1 on the Rub Rail & Post Mounting Detail the decking description lists Kebony. Is Kebony as alternate?

Answer 1:

Please neglect this reference to the Kebony material. This reference is being removed via this addendum.

Question 2:

Did not see a spec on the fuel management system, payment systems and equipment. Please provide.

Answer 2:

Refer to Section 15190 – Fuel Station, parts 2.7, 2.8, and 2.9.

Question 3:

Is it assumed that vessels will be moored on the outer end finger piers on a full time basis? This has an impact on design wind loads.

Answer 3:

The intent is to use this as a mooring location. Structural calculations should bear this in mind. Full time mooring may occur in the future based on operational needs. Due to this variability, the design for wind loading should account for cases with and without boats at these locations.

Question 4:

The dock manufacturer wishes to use high strength (grade 5 or better) flange nuts and bolts which have been used on marinas and in the heavy equipment and automotive industry for years. Nuts are of the same high strength rating as bolts. Both the bolt heads and nuts incorporate a flange which is more resistant to loosening than a lock washer, even with a nylock nut. Galvanized nuts with nylock features do not exist. Specs do not allow stainless nuts. Brass nuts are not as strong as a steel rated nut and are expensive.

Answer 4:

Zinc-plated nuts have been substituted in place of galvanized nuts, see Changes to Book 3. Flange head bolts may be substituted for standard bolt and flat washer. Flange nuts may be accepted in lieu of flat washers, provided they incorporate a nylon locking insert.

Question 5:

What design deadload is to be used for the utilities for the gangways?

Answer 5:

Typical gangways serving floating docks shall be designed for 50 plf live load along the length of the gangway. Design loading for gangways to service floating fuel piers shall be coordinated with the fuel system to account for additional dead load due to fuel lines and other utility lines related to the fuel system.

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Question 6:

Dock spec section 2.19 for the fishing piers references paint for the handrails. Is paint to be used over the required galvanized corrosion protection?

Answer 6:

The intent of this requirement is to provide a corrosion-resistant surface on all non-painted surfaces (including interior or mounting surfaces). Follow surface preparation for painting/coating recommended by the coating system manufacturer. Typically this involves sand-blasting or other abrasive surface treatment to remove the galvanized coating for application of paint.

Question 7:

Per the specifications, coated fasteners are accepted for the decking and skirtboard attachment. It would seem logical that any deck mounted items would be able to use fasteners with the same coating. Please clarify.

Answer 7:

Unless specified or detailed otherwise, mounting hardware for securing deck mounted items may utilize a coating similar to the ceramic coatings specified for decking materials themselves. Where through-bolting to the dock structure is required, the contractor shall utilize galvanized structural bolts and zinc-plated lock nuts in accordance with Section 02000, Article 2.03 and appropriately sized for anticipated loading.

Question 8:

Please confirm that the fabricators for the Precast Structural Concrete Units (at the pedestrian underpass) are to be PCI – certified.

Answer 8:

Yes. Precast suppliers must be PCI certified.

Question 9:

The tree removals will generate hundreds of yards of clean, shredded chips. May those chips be used for mulching the tree protection areas?

Answer 9:

Yes, provided that the trees are free of disease or infestation.

Question 10:

If existing topsoil material are stripped and stockpiled will these material be suitable for restoration of these same areas?

Answer 10:

Existing topsoil material stripped and stockpiled for reuse shall meet specification requirements of section 02310 or be amended as necessary to meet these specifications.

Question 11:

Please confirm whether both leaves on double doors should be activated or just one.

Answer 11:

Both doors should be activated as required per code exiting requirements.

Question 12:

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The specifications and pay quantities require the use of existing earth materials as backfill. The specifications require that Satisfactory Backfill materials meet TACO Tier 1 soil remediation objectives. Are we correct in assuming the existing earth material meet these objectives?

Answer 12:

Section 02318 applies to materials that are imported to the site. On-site soils can be reused as fill provided they are not classified as hazardous.

Question 13:

Structural Precast Arch Units at the underpass – Please provide a manufacturer and product number for the membrane waterproofing need at this location.

Answer 13:

Waterproofing membrane system must meet requirements of Article 581.02 of the SSRBC.

Question 14:

There are no Test Pile locations shown on the Parking Garage Alternate. Are any required, how many and where.

Answer 14:

Per Section 18(13-132-160) of Chicago Building Code at least 1-pile load test will be required for each pile type with a design load in excess of 40 tons. Section 02315-3.7-C states "Test piles and reaction piles are not intended to be used as production piles regardless of the results of the test. They should be cut off at least 2 ft below the design bottom elevation of any structure immediately above, and abandoned in place." The location of the test piles will be within the foot-print of the building at 15-ft north of Column line-4 on line-B.

Question 15:

Will there be any test piles or load tests on the piles required for the floating docks? If so, where and what type (i.e. compression, tension, lateral).

Answer 15:

For the purposes of marina anchorage, the contractor shall utilize data obtained during installation of these piles to determine tip depth and resistance to compression. Resistance to lateral and tensile loading meeting the requirements established by the dock system's structural engineer shall be applied to 6 test piles as selected by the CR.

Question 16:

In section 02315 part 1.2 A of the specification requires conducting pile testing in accordance with the testing standard. The plans do not show any load test locations. Where are the load tests to be completed and how many are needed.

Answer 16:

1-pile load test will be required. The location of the test piles will be within the foot-print of the building at 15-ft north of Column line-4 on line-B.

Question 17:

In section 02315 part 3.2 B of the specification, the piles shall be driven to refusal in the rock. The spec also states that the minimum driving resistance shall be maintained for the last 6 inches. Is the intent of the spec to drive the piles 6 inches into rock?

Answer 17:

No. Once practical refusal as approved by geo-technical engineer is reached, driving should stop. Practical refusal is defined as 20 blows per inch (normal construction practices) or as accepted by geo-technical engineer.

Question 18:

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In section 02315 part 3.2 B of the specification, the pile-driving criterion required to produce design capacities of 140 tons in compression shall be established by the contractor based on the results of pile driving, performance of the "wave equation" analysis and the results of the pile load tests. Sheet SU1.5 of the pedestrian underpass plans calls for 186 kip pile capacity. Are the piles for the Pedestrian Underpass to be driven per 02315 part 3.2 B?

Answer 18:

Yes. 140 tons equates to 280 kips which exceeds the underpass pile capacity specified on the drawings.

Question 19:

On the Unit Price Bid Form item 12 Caissons-Garage, the Estimated Quantity is 4,550 LF. My take off is quite a bit lower.

Answer 19:

4550 LF is an estimation and your take off may be lower. The actual value will depend on the field condition and geotechnical engineer's approval.

Question 20

Is it acceptable to substitute ASTM A252, grade 3 pipe pile ($F_y=45$ ksi) for the specified ASTM A252 grade 2 pipe pile ($F_y=35$ ksi)?

Answer 20:

Grade 3 pipe pile may be substituted for Grade 2 pile; all engineering calculations by the dock system engineer shall account for this change.

Question 21:

Sheet A1.02B calls for "Knock-out" concrete slabs at the lid level. Is there any steel framing required for these two locations? The knock-out slabs below the lid level at the foundation level indicate metal deck and angle support framing per sheet S3.02. Please clarify whether there is any steel framing at the roof / lid level.

Answer 21:

Work with Det-1/S1.04B and Det-1/S3.06. No steel framing is needed for roof/lid knockout concrete slabs.

Question 22:

Detail 12 on sheet S2.03 calls for pipe bollards bolted down to column footing. This detail is not called out on the plans. Are these bollards required, and where do they go?

Answer 22:

Use this detail where bollards hit the wall footing, otherwise use detail 10. For bollard locations see plan.

Question 23:

Please clarify pile load test requirements.

Answer 23:

Per Section 18(13-132-160) of Chicago Building Code at least 1-pile load test will be required for each pile type with a design load in excess of 40 tons. The load is either conducted per ASTM D1143 which may be modified for duration by the project Geotechnical engineer, or if acceptable to building official and Geotechnical Engineer, a dynamic analyzer equipment and software may be used to determine in-situ capacity. Section 02315-3.7-C States "Test piles and reaction piles are not intended to be used as production piles regardless of the results of the test. They should be cut off at least 2 ft below the design bottom elevation of any structure immediately above, and abandoned in place." The location of the test piles will be within the foot-print of the building at 15-ft north of Column line-4 on line-B.

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See also changes to Section 02315.3.7.C above. Per IDOT SSRBC Article 512.15, test piles driven in production pile locations that are incorporated into the structure shall be cut off as permanent piles (applies only to the underpass structure.)

Question 24:

Drawing ME1.2 details the fuel dock. What type of railing is required around the gangway platform? Are we to match the guardrail detailed on LR1.14? Please clarify.

Answer 24:

The railing condition will match the railing on gangway.

Question 25:

After receiving Addendum #1 and counting the plants on LR3.2-Add1, LR3.3-Add1, and LR3.4 (no addendum). None of the plant quantities match the plant Schedule on LR3.2-Add1 or LR3.4 (no addendum). There is no plant schedule on LR3.3-Add1. Also, the seed schedule on LR3.4 does not match the seed schedule on LR3.2-Add1 or LR3.3-Add1. Please advise.

Answer 25:

The planting schedule on Sheet LR3.1 categorizes and lists all plant sizes and spacing for base and alternate planting sheets. The Plant Quantity_Base Schedule located on Sheet LR3.2-(Add 1) lists the total quantity of plants used on all Base Planting Sheets; LR3.2-(Add 1), LR3.3-(Add 1), LR3.4-(Add 1). The Plant Quantity_Alt Schedule located on Sheet LR3.2-ALT 2 (Add 1) lists the total quantity of plants used on all Alternate Planting Sheets; LR3.2-ALT 2-(Add 1), LR3.3-ALT 1-(Add 1), LR3.4-ALT 1-(Add 1). See Narrative above for plant quantity updates.

There is no seeding per the LR-series. The PLANTING LEGEND on LR3.4 and LR3.4-ALT 1 should be eliminated and the PLANTING LEGEND on LR3.2 – (Add1) or LR3.3 – (Add1) should be referenced.

Question 26:

Some dock manufacturer framing is made of aluminum. The specs call for steel.

Answer 26:

Section 02000 – Floating Dockage Systems includes Article 2.03.B 'Aluminum' which establishes requirements for aluminum-framed dock structures.

Question 27:

Sheet A1.01B, the dash lines along the walls facing the parking spaces between column lines 25.2-29.7/B.75-C, however, it's much thicker than the dash lines shown at column line 29.7-30/C (dash lines = Insulated metal panel system). Sheet A1.01D shows Mechanical Room 002 between column lines 14.75-16.25/B.75-C and no insulated metal panel system dash line work indicated. Please confirm if insulated metal panel system is required at these two locations to match the perimeter garage walls.

Answer 27:

Heavy dashed lines denote extent of Harbor Service building. No insulation is required on these walls facing the garage. Continue insulation along grid C at mechanical room and along all area shafts facing the garage.

Question 28:

May another product/material be substituted for the Coal Pitch Waterproofing Membrane?

Answer 28:

No substitution will be accepted for the Coal Tar Pitch Waterproofing Membrane.

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LIST OF ATTACHMENTS:

Unit Price Bid Form, March 26, 2010
Site Work Allowance, March 26, 2010

Drawings	ME1.1, 1 page (30"x42" format) ME1.2, 1 page (30"x42" format) ME3.1, 1 page (30"x42" format) ME4.1, 1 page (30"x42" format) ME5.1, 1 page (30"x42" format) ME7.1, 1 page (30"x42" format) C2.3, 1 page (30"x42" format) C6.2D, 1 page (30"x42" format) C7.1, 1 page (30"x42" format) S3.07, 1 page (30"x42" format) M1.1D_ALT-1, 1 page (30"x42" format) M2.1D_ALT-1, 1 page (30"x42" format) M2.1B, 1 page (30"x42" format) M2.1D, 1 page (30"x42" format) M4.3, 1 page (30"x42" format) M7.2, 1 page (30"x42" format) M8.1, 1 page (30"x42" format) IAS4.01, 1 page (30"x42" format) IAS4.03, 1 page (30"x42" format) IAS4.06, 1 page (30"x42" format) ED1.2, 1 page (30"x42" format) ES1.4, 1 page (30"x42" format) ES2.5, 1 page (30"x42" format) MSK-1, 1 page (8-1/2" x 11") MSK-2, 1 page (8-1/2" x 11")
Specifications	Section 02870 Section 07115 Section 08910
Supplemental	Geotechnical Report – 31 st Street Harbor Parking Garage

END OF ADDENDUM NO. 02

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UNIT PRICE BID FORM

Item No.	Description of Work	Unit(s)	Est. Qty.	Unit Price	Proposal
1	Precast concrete unit 24' arch, 10' high, 8' wide sections - Underpass	EA	6	\$	\$
2	Precast concrete unit 24' arch, 10' high, 6' wide sections – Underpass	EA	2	\$	\$
3	Concrete in footing – Underpass	L SUM			\$
4	Concrete in retaining walls – Underpass	L SUM			\$
5	Concrete in head walls – Underpass	L SUM			\$
6	Reinforcement Bars – Underpass	L SUM			\$
7	Driven piles HP12x53 – Underpass	LF	4,346	\$	\$
8	Architectural precast concrete cladding – Underpass	SF	3,466	\$	\$
9	Concrete cap, 1'-6" wide – Underpass	L SUM			\$
10	Combination Traffic and Bicycle Railing – Underpass	L SUM			\$
11	Waterproofing around precast concrete arch – Underpass	SF	4,200	\$	\$
12	Caissons—Garage	LF	4,550	\$	\$
13	Lump Sum Portion (Remainder of all contract scope not included in Unit Price items, above.				
14	Commission Contingency				\$2,000,000
15	Allowance Fund				\$500,000
16	TOTAL BASE BID				\$
Alternate 1: Full-size Garage					
1	Caissons, Garage Extension	LF	300		\$
2	Steel H-piles, HP12x53, Garage Extension	LF	8,800		\$
3	Lump Sum Portion – Full-size Garage Alternate (remainder of items not included in Items 1 – 2)				
4	Total Alternate #1 (Line Items 1-3)				\$
Alternate 2: Provide alternate playground option					
Alternate 3: Provide landscaping maintenance/ warranty - one additional year.					

Award Criteria Figure (Basis of Award), from Page 19: \$ _____.

REVISED UNIT PRICE BID FORM, dated MARCH 26, 2010

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SITE WORK ALLOWANCE

Item No.	Description of Work	Unit(s)	Unit Price
1	Loading, transportation and disposal of stockpiled contaminated soil	Tons	\$35.00
2	Excavation, loading, transportation and disposal of contaminated soil	Tons	\$45.00
3	Loading, transportation and disposal of stockpiled un-suitable soil	Tons	\$35.00
4	Excavation, loading, transportation and disposal of in-place un-suitable soil	Tons	\$45.00
5	Load, place and compact on-site fill material from stockpile	Cubic Yards	\$7.00
6	Excavate, load, place and compact on-site fill material	Cubic Yards	\$11.00
7	Demolition, removal, transportation and disposal of underground concrete footings and remnants.	Cubic Yards	\$30.00
8	UST Removal (Tank < 2000 gal capacity)	Each	\$3,000.00
9	UST Removal (Tank 3,000-5,500 gal capacity)	Each	\$5,000.00
10	UST Removal (Tank 6,000-10,000 gal capacity)	Each	\$8,000.00
11	UST Removal (Tank > 10,000-15,000 gal capacity)	Each	\$9,000.00
12	UST Removal (Tank > 15,000 gal capacity)	Each	\$12,000.00
13	UST tank sludge removal and disposal (55-gallon drum)	Drums	\$300.00
14	Bulk UST pump out (Liquids), including transportation	Gallons	\$0.60
15	Waste characterization sample analysis for disposal authorization for soils removed under Allowance Schedule	Sample	\$1,500.00
16	Water analysis for full MWRDGC contaminants List	Each	\$750.00
17	Obtain MWRDGC discharge permit for Bulk disposal of contaminated liquid	Each	\$1,200.00
18	Contaminated water-hauling and disposal of drums	Drums	\$200.00
19	Pumping, transportation and disposal of contaminated water - bulk disposal	Gallons	\$0.60
20	Pumping, storage and disposal of contaminated water - bulk disposal by MWRDGC Permit	Gallons	\$0.10
21	Furnish, place and compact base material CA-1 Stone	Ton	\$16.00
22	Load on-site base materials, place and compact CA-1 Stone	Cubic Yards	\$8.00
23	Furnish, place and compact aggregate material CA-6	Ton	\$16.00
24	Excavate, place and compact on-site aggregate material CA-6	Cubic Yards	\$12.00

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25	Furnish, place and compact drainage material CA-7	Tons	\$16.00
26	Excavate, place and compact on-site drainage material CA-7	Cubic Yards	\$12.00
27	Furnish and place geotextile filter fabric	Square Yard	\$7.00
28	Site Survey - Survey crew for verification of excavation and backfill quantities	Each	\$1,500.00
29	Street restoration per CDOT - 1-1/2 inch Asphalt Binder Coarse and 1-1/2 inch Asphalt Surface Coarse. Less than 100 Square Yards	Square Yard	\$165.00
30	Street restoration per CDOT - 9-inch PCC Base Course, 1-1/2 inch Asphalt Binder Coarse and 1-1/2 inch Asphalt Surface Coarse. Less than 100 Square Yards.	Square Yard	\$220.00

Total Allowance Fund = \$500,000.00

NOTES:

1. All Work associated with the above allowance schedule shall be approved in writing by the Commission Representative prior to proceeding.
2. Authorized additional excavation and replacement material will be paid for in accordance with the above allowance schedule.
3. Authorized additional excavation means excavation below subgrade elevations as shown in the Plans and Specifications due to the presence of unsuitable soil materials as determined by the Commission Representative.
4. The unit prices in this allowance schedule include all overhead and profit.
5. All unused portions of the allowance funds must be returned to the Commission in the form of a deductive change order prior to Final Completion and Acceptance of the Work.

Site Work Allowance, dated March 26, 2010
Addendum #2