

VA Roseburg – Seismic Replacement Bldg. 2 / Acute Psych Ward – Project No: 653-322
913 NW Garden Valley Boulevard
Roseburg, OR 97471

Tina Ely Architect
2915 Wingate Street
Eugene, Oregon 97408
Tina.Ely@comcast.net
541/521-2477

A D D E N D U M N O . 1

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents (Conformed Set) dated April 30, 2012 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

PROJECT MANUAL

SECTION 01 00 00 – GENERAL REQUIREMENTS (Appendix G initial issue)

PART 1 – GENERAL / 1.5 FIRE SAFETY

Paragraph A: Add to end: “Use codes current at time of contract signing.”

PART 1 – GENERAL / 1.9 GENERAL DATA

Paragraph A.1: fill in blank with “Geotechnical Report in Project Manual Appendix, Exhibit E.”

PART 1 – GENERAL / 1.19 CONSTRUCTION SIGN

Add Paragraph E to read: “Provide Construction Sign per Appendix G.”

Modify Table of Contents: add in APPENDIX “G – CONSTRUCTION AND SAFETY SIGNS.”

PART 1 – GENERAL / 1.20 SAFETY SIGN

Add Paragraph F to read: “Provide Safety Sign per Appendix G.”

Modify Table of Contents: add in APPENDIX “G – CONSTRUCTION AND SAFETY SIGNS.”

SECTION 01 45 29 – TESTING AND LABORATORY SERVICES (Section not reissued)

PART 3 – EXECUTION / 3.2 ASPHALT CONCRETE PAVING

Replace paragraph B.3 as follows:

“Density: Make a minimum of two field density tests of asphalt base and surface course for each day's paving operation. Field density tests shall be in accordance with either ASTM D 2041 or AASHTO T209 (as modified by ODOT TM 306) as directed by the RE/COTR.”

SECTION 03 45 00 - PRE-CAST ARCHITECTURAL CONCRETE (Section deleted)

Delete entire Section.

Strike Section from Table of Contents.

SECTION 04 72 00 - CAST STONE MASONRY (Section replaced)

Replace current Section with "04 72 00 CAST STONE AND CALCIUM SILICATE MASONRY UNITS."

Revise Table of Contents to reflect new Section title.

SECTION 08 41 13 – ALUMINUM FRAMED ENTRANCES AND STOREFRONTS (Section not reissued)

PART 2 PRODUCTS / 2.5 STILE AND RAIL DOORS

Paragraph A: Change stile and head rail to "127mm (5 inches) wide."

SECTION 08 44 13 – GLAZED ALUMINUM CURTAIN WALLS (Section not reissued)

PART 2 PRODUCTS / 2.1 SYSTEM DESCRIPTION

Paragraph C.11: Change STC50 TO "STC42."

SECTION 08 80 00 – GLAZING (Section not reissued)

PART 2 PRODUCTS

General: Delete references to vertical tinted glass throughout section. All vertical glazing is clear.

PART 2 PRODUCTS / 2.5 GLASS CLAD POLYCARBONATE

Add Paragraph F:

F. Glass is an option for tempered glass used for security for interior or interior pane of exterior glazing.

PART 2 PRODUCTS / 2.7 SWITCHABLE PRIVACY GLASS

Delete paragraph 2.7; replace title with "NOT USED."

SECTION 09 06 00 – SCHEDULE FOR FINISHES (Section not reissued)

PART 3 EXECUTION / 3.3 ROOM FINISH SCHEDULE

Add note: "See Appendix F for Room Finish Schedule and Finish Legend."

SECTION 10 14 00 – SIGNAGE (Section not reissued)

PART 2 PRODUCTS

Add article “2.5 EXTERIOR SIGNAGE”

2.5 EXTERIOR SIGNAGE

- A. Provide exterior building monument sign and foundation to match campus standard.
- B. Provide additional exterior signage to meet VA and campus standards.

SECTION 10 26 00 – WALL AND DOOR PROTECTION (Section not reissued)

PART 2 PRODUCTS / 2.2 CORNER GUARDS

Add Paragraph B:

- B. Design Basis: Acrovyn SSM.

SECTION 22 40 00 – PLUMBING FIXTURES (Section not reissued)

PART 2 PRODUCTS / 2.07 LAVATORIES

Add paragraph F:

F. L-4:

1. Usage: Nurse Hall B107-86, and Staff Shower E113-86.
2. Accessibility: ADA Compliant.
3. Fixture:
 1. Description: Self-rimming, front overflow, single center faucet hole.
 2. Dimensions: 20 inches x 17 inches overall x 6 inches deep.
 3. Material: Vitreous china.
 4. Color: White.
 5. Basis of Design: American Standard Aqualyn, Model 0476.028.
4. Fittings:
 - a. Faucet: Sensor operated, 12 volt, single temperature, 4 inch base plate, 5-1/4 inch gooseneck spout, 1.5 gpm, back checks, 12V AC transformer, 3-year warranty, chrome finish. Basis of design: Chicago HyTronic 116.427.AB.1.
 - b. Drain: Heavy cast brass grid strainer, 1-1/4 inch, 17 gauge tubular brass tailpiece. Basis of design: McGuire Model 155A.
5. Thermostatic mixing valve:
 - a. Features: Adjustable temperature control, straight checkstops, 1/2 inch IPS connections, compensates for fluctuations in supply temperature and pressure. Temperature set point of 105 degrees F.
 - b. Certification: ASSE 1070.
 - c. Capacity: 0.5 gpm to 3.0 gpm flow range, maximum 20 psi pressure differential at 2.2 gpm flow.
 - d. Basis of design: Powers Hydroguard Series e480.

PART 2 PRODUCTS / 2.08 SINKS AND LAUNDRY TUBS

Paragraph G.3.a: Change S-6 Fixture to 3-hole faucet punch.

Paragraph G.4.a: Change as follows:

- a. Faucet: Single lever side valve, two hole mount, 10 inch gooseneck spout, 2.0 gpm aerator, adjustable limit stop, chrome finish. Basis of Design: Chicago Model 2302.

PART 2 PRODUCTS / 2.08 SINKS AND LAUNDRY TUBS

Replace paragraph H as follows:

H. S-7:

1. Usage: Nutrition.
2. Accessibility: ADA Compliant.
3. Fixture:
 - a. Description: Double compartment undermount sink, two 13-1/2 inch x 16 inch x 5-1/2 inch deep bowls rear-set 3-1/2 inch drains.
4. Overall dimensions: 31 inch x 18 inch.
5. Material: 18 gauge type 304 stainless steel, sound insulated on underside.
6. Basis of design: Elkay Lustertone Model ELUHA 3118.
7. Fittings:
 - a. Faucet: Single lever side valve, two-hole mount, 10 inch gooseneck spout, 2.0 gpm aerator, adjustable limit stop, chrome finish. Basis of Design Chicago Model 2302.
 - b. Drain: Stainless steel cup strainers, strainer basket, and tailpiece. Sim. to Elkay LK-35.

PART 2 PRODUCTS / 2.08 SINKS AND LAUNDRY TUBS

Add Paragraph J:

J. S-9:

1. Usage: Patient Intake.
2. Accessibility: Not ADA Compliant.
3. Fixture:
 - a. Description: Single compartment undermount sink, 28 inch x 16 inch x 10 inch deep bowl, 3-1/2 inch drain.
 - b. Overall dimensions: 30-1/2 inch x 18-1/2 inch.
 - c. Material: 18 gauge type 304 stainless steel, sound insulated on underside.
 - d. Basis of design: Elkay Avado Model EFRU281610.
4. Fittings:
 - a. Faucet: 8 inch centers, concealed fitting, deck mount, 4 inch wrist blade handles, laminar flow outlet, 6 inch gooseneck spout. Basis of design: Chicago 786-E29.
 - b. Drain: Type 304 stainless steel grid strainer and tailpiece.

SECTION 23 07 11 – HVAC, PLUMBING, AND BOILER PLANT INSULATION (Section not reissued)

PART 1 GENERAL / 1.01 DESCRIPTION

Item 13: replace "HWH" with "HS."

Item 14: replace "HWHR" with "HR."

PART 2 PRODUCTS / 2.01 MINERAL FIBER OR FIBER GLASS

Item B: replace "32 kg/m³ (2 pcf)" with "24 kg/ m³ (1.5 pcf)"

Item B: replace "204 degrees C (400 degrees F) with foil scrim (FSK) facing" with "121 degrees C (250 degrees F) with foil scrim (FSK) facing"

PART 3 EXECUTION / 3.03 PIPE INSULATION SCHEDULE

Under category "38-94 degrees C (100-200 degrees F)," add the following services: HS, HR.

SECTION 23 31 00 – HVAC DUCTS AND CASINGS (Section not reissued)

PART 3 EXECUTION / 3.01 INSTALLATION

Delete last line of Item J, "Protection and Cleaning": ~~"When new ducts are connected to existing ductwork, clean both new and existing ductwork by mopping and vacuum cleaning inside and outside before operation."~~

SECTION 23 73 00 – OUTDOOR CENTRAL STATION AIR HANDLING UNITS (Section not reissued)

PART 1 GENERAL / 1.02 RELATED WORK

Delete Item F in its entirety (reference to 23 82 16, "Air Coils"); replace with "Not used."

Delete Item H in its entirety (reference to 23 40 00, "HVAC Air Cleaning Devices"); replace with "Not used."

SECTION 31 14 13 – PRECAST CONCRETE UNIT PAVERS (Initial issue)

A. Insert missing section into Project Manual.

B. Revise section title in Table of Contents to "PRECAST CONCRETE UNIT PAVERS."

SECTION 32 84 25 – DRIP IRRIGATION (Section deleted)

Revise Table of Contents by striking unused Section.

SECTION 32 91 13 – SOIL PREPARATION (Section not reissued)

PART 2 PRODUCTS / 2.2 ADDITIONAL GROWING MEDIUM... / PARAGRAPH A.

Change "other criteria in this specification." To "criteria of Section 33 40 00"

Delete 2.2.A.1 through 2.2.A.3

PART 3 EXECUTION / 3.6 PREPARATION OF FLOW-THROUGH BASIN PLANTING AREA

Change title to "NOT USED"

Delete 3.6.A through 3.6.E

SECTION 33 40 00 – STORM DRAINAGE UTILITIES (Section not reissued)

PART 1 GENERAL / 1.07 SUBMITTALS

Delete Paragraph D.1.

Add Paragraph E and F:

E. Bio-Retention Soil Submittals:

1. Grain size analysis results of the Aggregate component of the bio-retention soil mix.
2. Quality analysis results for the Compost component of the bio-retention soil. At a minimum, the analysis and report shall document compliance with the requirements specified herein. Analysis report shall bear the US Composting Council's (USCC)"Seal of Testing Assurance", and shall comply with the "Testing Methods for the Examination of Compost and Composting" (TMECC).
3. Organic content test results of the blended bio-retention soil mix.
4. A five gallon sample of the Aggregate component, Compost component, and final bio-retention soil mix for Architect's review. Store sample at jobsite.
5. A written description of the equipment and methods used to mix the Aggregate component with the Compost component used to produce the final mix. Include calculations for volumetric quantities used in the mix.
6. Testing laboratory information: Name of laboratories including contact persons, address, phone number, email address.

F. Rock Protection Submittals:

1. Submit sample of material for Architect's review and approval. Store sample at jobsite.

PART 2 PRODUCTS / 2.02 PE PIPE AND FITTINGS

Change Article title to read: 2.02 STORM DRAIN PIPE AND FITTINGS

PART 2 PRODUCTS / 2.03 NONPRESSURE TRANSITION COUPLINGS

Replace Article 2.03 with the following:

2.03 FLEXIBLE TRANSITION COUPLINGS

- A. Comply with ASTM C1173, elastomeric, sleeve-type, reducing or transition coupling with full-length, corrosion-resistant outer shield and corrosion-resistant-metal tension band and tightening mechanism on each end, for joining underground non-pressure piping. Include ends of same sizes as piping to be joined, and corrosion-resistant-metal tension band and tightening mechanism on each end.
- B. Sleeve Materials:
 - 1. For concrete pipes: ASTM C443, rubber.
 - 2. For plastic pipes: ASTM F477, elastomeric seal or ASTM D5926, PVC.
 - 3. For dissimilar pipes: ASTM D5926, PVC or other material compatible with pipe materials being joined.

PART 2 PRODUCTS / 2.04 BACKWATER VALVES / PARAGRAPHS A AND B

Replace with the following:

2.04 BACKWATER VALVES

- A. Terminal Type: Terminal valve, Duco cast iron body and bronze valve seat, swing check valve, with hub inlet and open outlet for installation at the end of a drainage line. Valve to be installed flush with inside of manhole wall. Jay R. Smith 7070, Zurn Z1091 or approved equal.
- B. In-Line Type: In-line valve, Duco cast iron body with bronze backwater valve. Jay R. Smith 7022S series with extension to finished grade, or approved. Valve box and lid shall be cast iron. Lid shall be H-20 traffic rated. Set valve box and lid flush with adjacent finished surface. Olympic Foundry Inc. 9"x6 -1/2" Clean-out Ring & Cover, Part No. M1018.

PART 2 PRODUCTS / 2.05 CLEANOUTS

Replace Article 2.05 with the following:

2.05 CLEANOUTS

- A. Cleanout Frame and Cover: ASME A112.36.2M, round, gray-iron housing with clamping device and round, secured, scoriated, gray-iron cover.
 - 1. Top-Loading Classification: Heavy Duty.
 - 2. Cleanout covers in the Patient Garden shall be locking.
- B. Cleanout Riser: Plastic cleanouts shall have PVC body with PVC threaded plug. Pipe, fitting, and riser to cleanout shall be of same material as main line pipe.

PART 2 PRODUCTS / 2.06 SINGLE CHAMBER CATCH BASINS

Add Paragraph B:

- B. Use any of the following pipe materials from the catch basin to lateral where cover is less than one foot as detailed on drawings: Ductile Iron pipe and fittings (cement-lined), Class 52, AWWA C151; PVC, AWWA C900, CL150; Schedule 40 PVC, ASTM D2665 or F891 (latest revision).

PART 2 PRODUCTS / 2.09 AREA DRAINS

Add Paragraph B:

- B. Use any of the following pipe materials from the area drain to lateral where cover is less than one foot as detailed on drawings: Ductile Iron pipe and fittings (cement-lined), Class 52, AWWA C151; PVC, AWWA C900, CL150; Schedule 40 PVC, ASTM D2665 or F891 (latest revision).

PART 2 PRODUCTS / 2.10 DECK DRAINS

Replace Paragraph A with the following:

- A. Shall be fabricated steel body and cast iron grate with galvanized sub-coat, Duco finish inside and outside, safety bucket to require bucket replacement after cleaning, no hub adapter, bottom outlet, ADA-compliant, locking, and heel-proof grate. Outlet pipe size as detailed on plans. JR Smith 2240.

PART 2 PRODUCTS / 2.15 BIO-RETENTION SOIL

Replace Article 2.15 with the following:

2.15 BIO-RETENTION SOIL

- A. Minimum Soil Properties Used as Basis of Design:
1. Cation Exchange Capacity: 5 meq/100 grams of dry soil.
 2. Percent Organic Matter: 8-10% in accordance with the "Testing Methods for the Examination of Compost and Composting" (TMECC) Method 05.07A, "Loss-On-Ignition Organic Matter Method".
 3. Not used.
 4. Compost Content (Volumetric Percent): 40%
 5. Aggregate Content (Volumetric Percent): 60%
 6. Aggregate Gradation per ASTM D 422:

| Sieve Size | % Passing | | |
|------------|-----------|---|-----|
| 1" | 100 | | |
| No. 4 | 60 | - | 100 |
| No. 10 | 40 | - | 100 |

| | | | |
|---------|----|---|----|
| No. 40 | 15 | - | 50 |
| No. 200 | 2 | - | 5 |

7. Compost Characteristics:

- a. Compost material properties shall be tested in accordance with the US Composting Council's (USSC)"Seal of Testing Assurance", in accordance with the TMECC.
- b. Material to comply with Oregon Administrative Rules Section 340-093-0030, and be made from Type 1 feedstock.
- c. Particle Size:

| Sieve Size | % Passing |
|------------|-----------|
| 1" | 99 - 100 |
| 5/8" | 90 - 100 |
| 1/4" | 40 - 90 |
- d. Organic matter content between 45 and 60 percent.
- e. pH between 5.5 and 8.0.
- f. Carbon: Nitrogen Ratio between 20:1 and 25:1.
- g. Maximum electrical conductivity of 6 mmhos/s.
- h. Moisture content range between 35 and 50 percent.
- i. No viable weed seeds.
- j. Maturity: 80 percent or greater
- k. Stability: 7 mg CO₂-C/g or less
- l. Manufactured inert material (plastic, concrete, ceramics, etc.) should be less than 1% on a dry weight or volume basis.
- m. Metals should not be in excess of the limits described in the Oregon Administrative Rules Section 340-093-0030.
- n. The final bio-retention soil mix shall be well blended, loose, friable, homogeneous, and free of wood pieces, plastic, and other foreign matter.
- o. Submit documentation of compost, aggregate, and final soil mix properties for Engineer's review.

PART 2 PRODUCTS / 2.22 WARNING TAPE

Replace Article 2.22 with the following:

2.22 WARNING TAPE AND TRACER WIRE

- A. Standard, 4-Mil polyethylene 3 inch (76 mm) wide tape detectable type, purple with black letters, and imprinted with "CAUTION BURIED STORM SEWER BELOW".
- B. Copper Tracer Wire: Copper tracer wire consisting of No. 14 AWG solid, single conductor, insulated copper wire shall be installed in the trench with all piping to permit location of the pipe with electronic detectors. The wire shall not be spiraled around the pipe nor taped to the

pipe. Wire connections are to be made by stripping the insulation from the wire and soldering with rosin core solder. Solder joints shall be wrapped with rubber tape and electrical tape. At least every 300 m (1000 feet), provide a 2.3 kg (5 pound) magnesium anode attached to the main tracer wire by solder. The solder joint shall be wrapped with rubber tape and with electrical tape. An anode shall be attached at the end of each line.

PART 2 PRODUCTS

Add the following as Articles 2.23, 2.24, and 2.25:

2.23 - TRENCH DRAIN SEDIMENT TRAP

- A. Basin: Shall be prefabricated steel, 24 inches square by 36 (minimum) inches deep, 10 gauge minimum, asphalt paint inside and out, prefabricated inlet and outlet pipes. Pipe size, offset, and orientation as shown on drawings.
- B. Basin Cover: Solid diamond plate cover, H20 traffic rated. Cover to have two lift holes at opposite ends, and recessed lift handle to allow for removal of the lid by hand.
- C. Signage: Refer to Civil drawings for signage requirements.
- D. Shutoff Valve: Wafer-style butterfly valve, lever operated, epoxy coated cast iron body, stainless steel disc and shaft, Buna-N seat and O-rings, Universal Sales Tuf-Skin or approved.
- E. Grease Trap: Prefabricated 6" diameter inverted tee assembly, as shown on the drawings, 6" minimum water seal, mechanical plug at upstream end of tee.
- F. Manufacturer: All components to be factory-assembled, Gibson Steel Catch Basins or approved.
- G. Where cover is less than one foot as detailed on drawings, use Ductile Iron pipe and fittings (cement-lined), Class 52, AWWA C151 between the catch trench drain and sediment trap and from the sediment trap to the lateral.

2.24 - PERFORATED STORM DRAIN PIPE AND FITTINGS

- A. Perforated Corrugated PE pipe and fittings, NPS 12 to NPS 60 (DN 300 to DN 1500); AASHTO M294, Type S for pipes 3 to 24 inches with smooth waterway for coupling joints. Pipe shall be produced from PE certified by the resin producer as meeting the requirements of ASTM D3350, minimum cell class 335434C.
 - 1. Soil-tight Couplings: AASHTO M252, corrugated, matching tube and fittings.
- B. Refer to Section 33 46 13, Foundation Drainage, for foundation drain pipe and fitting specification.

2.25 - ROCK PROTECTION AT OUTFALL CATCH BASINS, OVERFLOW CATCH BASINS, AND ROCK CHANNELS

- A. Hard, durable stone, washed, free of loam, sand, clay, and other foreign substances. Material

to be the following type, size range, and color:

1. Type: Angular, crushed, quarry-run rock.
2. Size Range: 4" maximum, 3" minimum, uniformly graded.
3. Color: Uniform color range, as approved by Architect.

PART 3 EXECUTION / 3.02 PIPE BEDDING

Change Article title to read: 3.02 PIPE BEDDING AND BACKFILL

PART 3 EXECUTION / 3.03 PIPE INSTALLATION

Delete Paragraph C.7.

Add Paragraph G:

- G. Warning tape shall be continuously placed 300 mm (12 inches) above storm pipe. Tracer wire shall be centered on the top of pipe, placed continuously between structures and extend into structures as shown on the drawings.

PART 3 EXECUTION / 3.08 CATCH BASIN, AREA DRAIN, AND DECK DRAIN INSTALLATION

Replace Paragraph B with the following:

- B. Set frames and grates to elevations indicated, flush with adjacent finished surfaces.

Add Paragraph C:

- C. Coordinate installation of drains with concrete work to ensure alignment with concrete layout.

PART 3 EXECUTION / 3.09 TRENCH DRAIN INSTALLATION

Delete Paragraph E.

PART 3 EXECUTION / 3.11 CONNECTIONS

Delete Paragraph C.3 text; replace with "Not used."

PART 3 EXECUTION / 3.13 FIELD QUALITY CONTROL

Delete Paragraph B.

Replace Paragraph E.4.g with the following:

- g. Replace defective piping using new materials, and repeat inspections until defects are within allowances specified. Reinspect and repeat procedure until results are satisfactory.

Replace Paragraph E.5 with the following:

5. Reinspect and repeat procedure until results are satisfactory.

PART 3 EXECUTION / 3.14 REINSPECT AND REPEAT PROCEDURE UNTIL RESULTS ARE SATISFACTORY TESTING OF STORM SEWERS

Change Article title to read: 3.14 - TESTING OF STORM SEWERS

PART 3 EXECUTION

Add Articles 3.16 and 3.17:

3.16 - STORMWATER TREATMENT FLOW-THROUGH BASIN

- A. Do not allow stormwater runoff to enter flow-through basin by sheet flow or piped drainage until contributing drainage area has been stabilized and flow-through basin is fully constructed.
- B. Do not operate heavy equipment within flow-through basin after beginning backfilling.
- C. Excavate to the subgrade elevation required to meet the elevations shown on the drawings.
- D. Place impermeable liner around sides and bottom of flow-through basin as shown on drawings.
- E. Place bio-retention drain rock, bio-retention filter pea gravel, and bio-retention filter sand to conform to the lines, grades, depth, and cross-section shown on the drawings.
- F. Install perforated pipe within bio-retention drain rock layer as indicated on the drawings. Extend impermeable liner around cleanout and upstream end of perforated pipe to prevent perforated pipe from coming in contact with native soil.
- G. Seal all pipe penetrations through impermeable liner per manufacturer's recommendations.
- H. Place bio-retention soil loosely with a conveyor belt unless otherwise approved by the Architect.
- I. Bio-retention soil shall not occur when bio-retention soil is excessively wet, as determined by the Architect.
- J. Bio-retention soil shall not be placed until associated submittals have been reviewed and approved.
- K. Consolidate bio-retention soil using water-consolidation or other approved methods. Water consolidation shall be performed in a controlled manner, such that no scour, erosion, or soil displacement occurs. Repeat as needed to reach finished grade. Bio-retention soil shall not exceed 80% relative compaction per ASTM D1557.
- L. Coordinate planting work and schedule with bio-retention soil placement. Refer to Section 32 91 13-3 for planting requirements and additional soil preparation.
- M. Where excavations for shrubs or trees extend into bio-retention drain rock zones, lay filter fabric at the interface between drain rock and tree and shrub excavation. Filter fabric shall not extend higher than drain rock layer.

3.17 - IMPERMEABLE LINER

- A. Place as detailed on Drawings.

- B. Acquisition and Storage: Provide complete rolls of liner as furnished by the manufacturer, and protect against damage and deterioration. Store all liner rolls in a dry place and off ground at all times according to ASTM D4873. Cover all rolls and partial rolls with a dark protective covering when received. The liner will be rejected for use if the Architect determines it has defects, deterioration, or has been damaged.
- C. Surface Preparation: Prepare the surface receiving the liner to a smooth condition free of obstructions, depressions, and debris unless otherwise directed. Do not drag the liner on the ground or mishandle it in any way.
- D. Installation: The subgrade surface is to be uniform and free of rocks, depressions, voids, and irregularities that might damage liner. Install impermeable liner in accordance with liner manufacturer's written recommendations.
 - 1. Overlap joints a minimum of 8 inches. All laps shall be overlapped in direction the water flows.
 - 3. Continuously tape all joints to provide an impermeable liner.
 - 4. Place a suitable amount of ballast on the liner to prevent movement by wind. The ballast shall be in a form that will not damage liner.
 - 5. Direct loading on the fabric by traffic shall not be allowed. A minimum of 4 inches of material cover must be placed prior to traffic.
 - 6. Repair punctured or torn liner by overlapping additional fabric and joining in accordance with manufacturer's recommendations.
- E. Limit construction vehicles in size and weight so rutting in the initial layer above the liner is not more than 3 inches deep or one-half the layer thickness, whichever is less. Turning of vehicles on the first layer will not be permitted.
- F. Repair of Liner: Repair or replace all torn, punctured, or contaminated liners during construction at no cost to the Owner. Repair by placing a patch of the specified liner over the affected area. Where liner seams are required to be sewn, repair any damaged sheet by sewing unless otherwise indicated on the plans or special provisions, or as directed.

APPENDIX A (Section not reissued)

CIVIL DEDUCT ALTERNATES

C-1 Delete Paved Parking Lot

Add to end of description: "Refer to sheet CP-101."

C-2 Delete Wheel Stops

Delete this item; replace "Delete Wheel Stops" with "Not Used."

C-3 Delete Flow-Through Basin

Add to end of description: "Refer to sheets CU-101 and CU-103."

C-4 Delete Curb

Add to end of description: "Refer to sheet CP-101."

APPENDIX B (Section not reissued)

DOOR SCHEDULE

Door Number A101-B / Notes: Change to TT/AS-611

Door Number E105 / Frame Material: Change to SF, Notes: Change to SS/AS-611

Door Number E106 / Frame Material: Change to SF, Notes: Change to SS/AS-611

Door Number E107 / Frame Material: Change to SF, Notes: Change to SS/AS-611

Door Number E108 / Frame Material: Change to SF, Notes: Change to SS/AS-611

Door Number E109 / Frame Material: Change to SF, Notes: Change to SS/AS-611

Door Number E115 / Frame Material: Change to SF, Notes: Change to SS/AS-611

Door Number E119 / Frame Material: Change to SF

Door Number E120 / Frame Material: Change to SF, Notes: Change to SS/AS-611

APPENDIX F (Section not reissued)

Line 76 / E113 / Staff Shower / Ctop: Add "HPDL2."

Line 83 / E120 / Staff Lounge / Ctop: Change to "S1."

DRAWINGS SHEETS - CIVIL

SHEET GS-100 – SITE PLAN (Sheet not reissued)

A. Change SHEET NOTE 4 to read:

REFER TO CIVIL SHEET CU-101, CU-102, AND CU-103 FOR CIVIL UTILITIES DEMOLITION AND SHEET GD-100 FOR SITE DEMOLITION.

B. Change KEYNOTE 14 AND 15 to read:

14. INSTALL NEW ADA PARKING SIGNAGE PER DETAIL 8/CS-505.

15. NEW LIGHT POLE WITH ADA PARKING SIGNAGE. REFER TO ELECTRICAL SHEET ES-001 FOR SITE LIGHTING. REFER TO DETAIL 8/CS-505 FOR ADA PARKING SIGNAGE.

C. Add Keynote 16 to the Keynote Legend:

16. NEW SIGNAGE, REFER TO SHEET CU-101.

D. Add the following: In plan-view, at approximate coordinates N 581268.5, E4158228.3, add a sign symbol and a Keynote 16 flag. Refer to reissued drawing CU-101 for sign location.

E. Add the following: In plan-view, at approximate coordinates N 581267.6, E 4157794.9, add a sign symbol and a Keynote 7 flag. Refer to architectural drawings for sign location.

- F. Change the plan-view layout of the Flow-Through Basin. Refer to newly issued Sheet CU-104 and reissued sheet CG-101 for revised layout.

SHEET GD-100 – SITE DEMOLITION PLAN (Sheet not reissued)

- A. Change "KEYNOTE LEGEND" to read "CONSTRUCTION NOTES".
- B. Change Construction Note 5 to read:
 - 5. NOT USED.
- C. Add Construction Note 12:
 - 12. REMOVE EXISTING SIGN. REFER TO GS-100 FOR NEW SIGN.
- D. Delete Construction Note 5 flag from plan view and delete reference to horseshoe pits.
- E. Delete two tree symbols and two corresponding Construction Note 1 flags at the following approximate locations: N 581445.0, E 4158107.0 and N 581390.4, E 4158149.4.
- F. Add the following: In plan-view, at approximate coordinates N 581413.8, E 4158062.2, add a tree symbol and a Construction Note 1 flag.
- G. Add the following: In plan-view, at approximate coordinates N 581289.0, E 4157782.3, add a Construction Note 12 flag pointing to the existing sign symbol.
- H. Add the following: In plan-view, at approximate coordinates N 581289.0, E 4157782.3, add a tree symbol and a Construction Note 7 flag.

SHEET CU-101 – STORM DRAIN PLAN (Sheet reissued)

SHEET CU-102 – SANITARY SEWER, WATER, NATURAL GAS DISTRIB. PLAN (Sheet reissued)

SHEET CU-103 – SANITARY SEWER, WATER, NATURAL GAS DISTRIB. DETAILS (Sheet reissued)

SHEET CU-104 – STORM DRAIN BASE BID DEDUCTIVE ALT C-3 DETAILS (New sheet)

- A. Add Sheet number and title to SHEET INDEX – VOL 2 on GI-001 – COVER SHEET.

SHEET CG-101 – GRADING PLAN (Sheet reissued)

SHEET CP-101 – PAVING PLAN (Sheet reissued)

SHEET CS-502 – CIVIL SURVEY LEGENDS, GENERAL NOTES, DETAILS (Sketch issued)

- A. Change Detail A per new sketch SK-C01.
- B. Contractor to change title of Detail 3 to read: IN-LINE BACKWATER VALVE INSTALLATION.

SHEET CS-503 – CIVIL DETAILS (Sheet reissued)

DRAWINGSHEETS – LANDSCAPE

SHEET LI-101 – IRRIGATION PLAN (Sheet reissued)

- A. Add detail 1: "IRRIGATION PLAN – NORTH TRENCH."
- B. Change detail title number "1" to number "2."
- C. Add detail 3: "IRRIGATION PLAN – BUILDING 2 TRENCH."
- D. Add match lines to overall plan.
- E. Add IRRIGATION NOTE #7.

SHEET LP-101 – LANDSCAPE PLANTING PLAN (Sheet reissued)

- A. Add detail 1: "PLANTING PLAN – NORTH TRENCH."
- B. Change detail title number from "1" to "2."
- C. Add detail 3: "PLANTING PLAN – BUILDING 2 TRENCH."
- D. Change detail title number from "2" to "4."
- E. Add match lines to overall plan.
- F. Delete PLANT NOTE #5.

SHEET LP-501 – LANDSCAPE PLANT LEGEND AND DETAILS (Sheet not reissued)

- A. Change quantity of GARDEN LAWN to 35,400 SF
- B. Change quantity of SITE LAWN to 19,860 SF
- C. Change quantity of FLOW-THROUGH BASIN to 1,450 SF
- D. Detail 5 / FLOW-THROUGH BASIN DETAIL
 - (1) Change "FLOW-THROUGH BASIN GROWING MEDIA" note to "BIO-RETENTION SOIL."
 - (2) Replace NOTE #2 to read "SEE SPECIFICATION SECTION 33 40 00 FOR BIO-RETENTION SOIL REQUIREMENTS."

DRAWINGSHEETS – ARCHITECTURE

SHEET AS-601 – EXTERIOR WINDOW SCHEDULE (Sheet not reissued)

- A. Change WINDOW TYPE "Q" material to "HM."

SHEET AS-611 – INTERIOR WINDOW SCHEDULE (Sketch issued)

- A. Add WINDOW TYPE “T T”. See new sketch SK-A01.

DRAWINGSHEETS – MECHANICAL

SHEET MH-300 – MECHANICAL ROOM PLAN PLUMBING (Sketch issued)

- A. Add vent lines from floor sinks. See new sketch SK-M01.

DRAWINGSHEETS – PLUMBING

SHEET PL-001 – PLUMBING SYMBOLS LIST, SHEET INDEX & SCHEDULES (Sketch issued)

- A. PLUMBING FIXTURE CONNECTIONS: Change plumbing fixture connection sizes for water closets. See new sketch SK-P01.
- B. MEDICAL GAS EQUIPMENT: Change OM-1 per revised mechanical equipment schedule. See new sketch SK-P01.

SHEET PL-100 – FOUNDATION PLAN – PLUMBING (Sketch issued)

- A. Add vent lines from floor sink traps. See new sketch SK-P02.

SHEET PL-101.1, PL-101.2, and PL-101.3 – FLOOR PLAN PLUMBING (Sketches issued)

- A. Change S-4 in Patient Intake Room/C-103 to S-9. (No sketch provided.)
- B. Change L-1 in Nurse Hall/B-107 to L-4. (No sketch provided.)
- C. Change L-1 in Staff Shower/E-113 to L-4. (No sketch provided.)
- D. Change vent sizes. See new sketches SK-P03, SK-P04, and SK-P05.

DRAWINGSHEETS – ELECTRICAL

SHEET ES-001 – SITE PLAN – ELECTRICAL (Sketch issued)

- A. Revised conduit routing to pad mounted transformer. See new sketch SK-E01.

SHEET ES-101.1 – FLOOR PLAN SOUTH/WEST WING – POWER (Sketch issued)

- A. Added a faucet sensor connection in room B108. See new sketch SK-E02.

SHEET ES-101.3 – FLOOR PLAN EAST WING – POWER (Sketch issued)

- A. Added a faucet sensor connection in room C102. See new sketch SK-E03.

SHEET ES-101.4 – ENLARGED LOADING DOCK PLAN – POWER (Sketch issued)

- A. Added a receptacle and circuit for med gas manifold controls in room E121. See sketch SK-E04.

SHEET ES-102.1 – FLOOR PLAN SOUTH/WEST WING - LIGHTING (Sheet reissued)

- A. Several circuiting and/or equipment changes throughout sheet.

SHEET ES-102.2 – FLOOR PLAN NORTH WING – LIGHTING (Sheet reissued)

- A. Several circuiting and/or equipment changes throughout sheet.

SHEET ES-102.3 – FLOOR PLAN EAST WING - LIGHTING (Sheet reissued)

- A. Several circuiting and/or equipment changes throughout sheet.

SHEET ES-102.4 – ENLARGED LOADING DOCK PLAN – LIGHTING (Sheet reissued)

- A. Several circuiting and/or equipment changes throughout sheet.

SHEET ES-104.1 – LUMINAIRE, OCCUPANCY SENSOR AND LIGHTING CONTROL SCHEDULES
(Sketch issued)

- A. Deleted lighting control panels "LCPD1", "LCPD2" and "LCPD3". See new sketch SK-E05.
- B. Additional revision made to lighting control panel "LCP". See new sketch SK-E05.

SHEET ES-104.2 – ELECTRICAL SCHEDULES (Sketches issued)

- A. Revisions to circuits in panel schedule "N1". See new sketch SK-E06.
- B. Revisions to circuits in panel schedule "LS1". See new sketch SK-E07.

SHEET ES-105 - ELECTRICAL DETAILS (Sheet reissued)

- A. Circuiting and equipment revisions to detail 8.
- B. Detail 3 deleted.

SHEET ES-105.1 - ELECTRICAL DETAILS (Sheet reissued)

- A. Details 2, 3 and 4 added to sheet.

END OF ADDENDUM NO. 1 NARRATIVE