

MAY 16, 2018
BOARD OF COUNTY COMMISSIONERS
ORANGE COUNTY FLORIDA
ADDENDUM NO. 2/IFB NO. Y18-759
ORANGE COUNTY PORTER TRANSFER STATION SITE IMPROVEMENTS

THE REVISED BID OPENING DATE IS MAY 22, 2018

This addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions, and/or revisions to and shall take precedence over the original documents. Underlining, indicates additions, deletions are indicated by strikethrough.

A. The bid opening date is changed from ~~May 17, 2018~~ to May 22, 2018.

B. The following are questions/responses/clarifications:

- 1. Question:** Can the column spacing and building length be adjusted to correspond with Standing Seam roof 2' panel modularity? (2'-0" panel width = 154' or 156' overall building length)

Response: Any changes to the proposed HHW building design shall be processed through a change order and are subject to reviews by the Engineer and Owner. It is noted that the building length shall be only be decreased down to 154ft provided that this adjustment will decrease the cost of the HHW building due to panel modularity and that the Contractor will coordinate the adjustment with all effected trades.

- 2. Question:** What gauge for standing seam roof panel material?

Response: The minimum is 22 gage.

- 3. Question:** Are the roof panels to be a painted finish?

Response: Yes, the roof shall be painted. Refer to Section 09900 Paints and Coatings.

- 4. Question:** Please confirm roof collateral load is 0.5 psf

Response: For the HHW building, the roof collateral dead load shall be 5 psf. The roof live load shall be 20 psf.

- 5. Question:** Specs call for the building envelope to be open, but the building configuration does not correspond to that description. Please clarify.

Response: The envelope of the scale house canopy structure shall be classified as "Open". The HHW building's envelope shall be classified as "Closed" for wind load related design purposes.

6. **Question:** Please confirm the roof slope is 0.25:12
- Response:** At a minimum (as required by code), the P.E.M.B. manufacturer's Specialty Engineer may opt to increase this minimum slope per their design. Note that the roof design must be weather tight and prevent ponding.
7. **Question:** Detail 5/S10 shows a retaining wall abutting the P.E.M.B. wall panels along the high sidewall of the building. Can the wall panels along the High sidewall be terminated at the top of the retaining wall elevation, 4'-0" AFF?
- Response:** No. The horizontal girts shown on Detail 5 of Sheet S-10 may be re-spaced or adjusted for ease of wall panel construction.
8. **Question:** Please confirm 3'-0" roof overhang at high sidewall extending into Truck Transfer Trailer Bay.
- Response:** Refer to the updated Drawing S10. The roof overhang shall not extend into the trailer bay. The roof shall extend 3'-0" from the south side of the building. There shall be no overhang over the Transfer Trailer Bay side.
9. **Question:** Any Soffit panels at roof overhang?
- Response:** Yes. The roof overhangs will require soffit panels.
10. **Question:** Any roof or wall insulation?
- Response:** There is no wall or roof insulation for the HHW building.
11. **Question:** What size wall openings for Exhaust Fans/Louvers?
- Response:** Refer to the manufacturer recommendation for exhaust fan opening sizes. Refer to the updated Section 13120 for louver information. The minimum louver opening shall be 4'x4'.
12. **Question:** How much do the Exhaust Fans/Louvers weigh?
- Response:** Refer to exhaust fan schedule for manufacturer and model information. No weight is provided for the louvers.
13. **Question:** Will the HHW building have Fire Sprinklers?
- Response:** No fire suppression system is planned for the building interior.
14. **Question:** Any Skylights or translucent light panels in roof or walls?
- Response:** No translucent light panels or sky lights are planned for the HHW building or scalehouse canopy.
15. **Question:** In Section 10880 1.10 Unattended Terminal A, please explain "It shall be connected to the Internet via Ethernet and wireless."

Response: The Contractor shall install an ethernet communication line to the unattended terminal. The manufacturer should provide a cable for power and data to the RF reader at the County's preferred location.

Note that the traffic light, traffic arm, and scoreboard also require data and power conduits.

During equipment start-up, the Contractor shall demonstrate that the terminal can operate both wirelessly and the hard-wire communications line. The Contractor shall also ensure that the unattended terminal is compatible with the RFID reader and with the County's VOIP system.

The Contractor shall include in its bid price 200 RFID labels for County distribution (Transcore eGo® Plus Mini Sticker RFID Tag or approved equivalent).

16. **Question:** Sheet S5 shows two different Foundation and Reinforcing Schedule tables with conflicting sizes and other information. Please specify which schedule is the correct one.

Response: Refer to the updated Drawing S5.

17. **Question:** The area where the scalehouse is located, between the scale and transfer trailer bay #1, has no detail for the grade (shown in white on drawing 6). Are we to assume this area is green space?

Response: This area shall be graded and sloped to be provided drainage as shown in the drawing. The area shall be sodded according to the Section 02900.

18. **Question:** Please be specific about what permit fees the GC will be responsible for. What about Impact fees?

Response: Please refer section C page C-20 #31 Licenses/Permits/Fees of the IFB

C. CHANGES TO SPECIFICATIONS AND DRAWINGS

TECHNICAL SPECIFICATIONS

- A. DELETE and REPLACE Section 13120 Revision 1 attached.

DRAWINGS

- A. DELETE and REPLACE Drawing S5 Revision 2 attached.
B. DELETE and REPLACE Drawing S10 Revision 1 attached.

D. All other term and conditions of the IFB remain the same.

The Bidder shall acknowledge receipt of this addendum by completing the applicable section in the solicitation or by completion of the acknowledgement information on this addendum. Either form of acknowledgement must be completed and returned no later on the date and time for receipt of the Bid.

Receipt acknowledged by:

Authorized Signature

Date Signed

Title

Name of Firm

ATTACHMENT 1
SECTION 13120

SECTION 13120

HOUSEHOLD HAZARDOUS WASTE BUILDING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The Contractor shall furnish all of the necessary supervision, labor, tools, materials and equipment to perform all of the Work required to construct and install the proposed Household Hazardous Waste (HHW) building and all associated appurtenances to the foundation system in accordance with the Contract Drawings and Specifications.

1.02 REFERENCES

- A. American Institute of Steel Construction - AISC
1. AISC S335 - Specification for Structural Steel Buildings, Allowable Stress Design.
 2. AISC S342L - Load and Resistance Factor Design Specification for Structural Steel Buildings.
- B. American Iron and Steel Institute - AISI:
1. AISI - Specification for the Design of Cold-Formed Steel Structural Members, Allowable Stress Design.
- C. American Society for Testing and Materials - ASTM:
1. ASTM A36/A36M - Standard Specification for Carbon Structural Steel.
 2. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.
 3. ASTM A325 - Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.
- D. American Welding Society - AWS:
1. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination.
 2. AWS D1.1 - Structural Welding Code - Steel.

- E. Metal Building Manufacturers Association - MBMA:
 - 1. MBMA - Low Rise Building Systems Manual.
- F. The Society for Protective Coatings - SSPC:
 - 1. SSPC - Steel Structures Painting Manual.

1.03 HHW BUILDING DESCRIPTION

- A. Primary Framing: Rigid frame of rafter beams and columns, braced end frames, end wall columns and wind bracing.
- B. Secondary Framing: Purlins, girts, eave struts, flange bracing, clips and other items detailed on the Contract Drawings and as required by the manufacturer.
- C. Lateral Bracing: All horizontal loads shall be resisted by main frame action.
- D. Roof System
 - 1. Shall consist of preformed metal panels, with sub-girt framing/anchorage assembly; wind bracing for specified sections as shown on the Contract Drawings; and all associated accessory components.
- E. Portal frames shall have a clear span minimum value as shown on the Contract Drawings.
- F. Total HHW building roofline area shall be as shown on the Contract Drawings.

1.04 DESIGN REQUIREMENTS

- A. Members shall be designed to withstand design loads due to pressure and suction of wind calculated in accordance with applicable code and design load schedule on the Contract Drawings and shall include, but are not limited to, the following:
 - 1. Building Code: Latest Edition of the Florida Building Code
 - 2. Building End Use: Community
 - 3. Occupancy Category: Standard (Category II)
 - 4. Wind Exposure Category: C
 - 5. Wind Speed: 140 mph, three second gust
 - 6. Roof Dead Load Superimposed: 10 psf

7. Roof Collateral: 0.5 psf
 8. Roof Live Load: 20 psf, reduction allowed
 9. Wind Importance Factor: 1
 10. Internal Pressure Coefficients: + / - 0.18
 11. Building Envelope: Open
 12. Roof Pitch: As shown on the Contract Drawings.
 13. Bay spacing as shown on the Contract Drawings.
 14. Deflections shall be limited as shown on the Contract Drawings for 10-year mean occurrence wind load on walls and roof.
 15. Total HHW Building Roofline Area: As shown on the Contract Drawings.
 16. Roof System and Endwalls and Sidewalls
 - a. Preformed metal panels, with sub-girt framing/anchorage assembly; wind bracing for specified sections as shown on the Contract Drawings; and all associated accessory components.
- B. The HHW building shall be constructed in accordance with the applicable Building Code, national standards, and local requirements for Orange County Florida. These shall include, but are not limited to the following:
1. Latest Edition of the Florida Building Code
 2. Orange County Building Department
 3. American Institute of Steel Construction (AISC)
 4. American Iron and Steel Institute (AISI)
 5. Metal Building Manufacturer's Association (MBMA)
 6. American Society for Testing Materials (ASTM)
 7. American National Standards Institute (ANSI)
 8. American Welding Society (AWS)

1.05 PERFORMANCE REQUIREMENTS

- A. Conform to the Contract Drawings, Specifications, notes and the Latest Edition of the Florida Building Code for submission of design calculations, shop drawings and erection drawings as required by the Contractor for acquiring permits.
- B. The Contractor shall cooperate with regulatory agencies or authority having jurisdiction and provide data as requested.
- C. The Contractor shall provide components compatible with adjacent materials.

1.06 SUBMITTALS

- A. Manufacturer drawings and design calculations shall bear the professional seal and signature of a licensed professional engineer registered in the state of Florida.
- B. Shop/Erection Drawings: The Contractor shall submit shop/erection drawings that indicate at a minimum assembly dimensions, locations of structural members, connections, attachments, openings, wall and roof system dimensions, general construction details, anchorages and method of anchorage, method of installation, framing anchor bolt settings, sizes, locations from datum and welded connections with AWS A2.4 welding symbols.
- C. Structural Design Calculations: The Contractor shall submit design calculations that demonstrate the strength and serviceability requirements of this specification have been met including but not limited to the criteria, codes, design loads, and load combinations used for the building design, deflection and drift calculations, crane/hoist supporting members, and foundation reactions.
- D. Manufacturer's Instructions: The Contractor shall submit the manufacturer's instructions for installation that indicate preparation requirements, assembly sequence, etc.
- E. Gutters and Downspouts: The Contractor shall submit the manufacturer's instructions for installation that indicate preparation requirements, assembly sequence, etc.
- F. Overhead rolling doors: The Contractor shall submit the manufacturer's drawings and instructions for installation of the overhead rolling doors.
- G. Paint: The Contractor shall submit manufacturer information regarding prime and finishing painting.
- H. Welding certification: Submit welding certification if requested.
- H-I. Louvers and Exhaust fans: Submit manufacturer's information including type, material, finish, size, performance characteristics, and relevant certifications.

1.07 QUALITY ASSURANCE

- A. The metal building manufacturer and manufacturer's professional engineer shall have a minimum of five years' experience in the successful design and fabrication of pre-engineered metal buildings of the size and complexity specified in the Contract Documents.
- B. Perform Work in accordance with MBMA Low Rise Building Systems Manual and, for items not covered, AISC - Specification for Structural Steel Buildings.
- C. The Contractor shall verify that the field measurements are as indicated on the shop/erection drawings.

1.08 WARRANTY

- A. Finish five year manufacturer warrant for pre-engineered building systems and components.
- B. Special warranty on metal panel finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within 20 years from date of substantial completion.
- C. Special weather-tightness warranty for standing-seam metal roof panels: Manufacturer's standard form in which manufacturer agrees to repair or replace standing-seam metal roof panel assemblies that leak or otherwise fail to remain water-tight within 10 years of date of substantial completion.

1.09 PRE-INSTALLATION MEETING

- A. The Contractor, Owner and Engineer shall convene a minimum of one week prior to erection of the HHW building to conduct a pre-installation meeting.

PART 2 - PRODUCTS

2.01 HHW BUILDING

- A. Designer/Manufacturer:
 - 1. Vulcraft Steel Structures, Inc.
 - 2. Nucor Building Systems
 - 3. Butler Manufacturing

2.02 COMPONENTS - FRAMING

- A. Material properties of steel bar, plate and sheet used in the fabrication of primary and secondary structural framing members shall conform to ASTM A529, ASTM A572, ASTM A1011 SS or ASTM A1011 HSLAS with a minimum yield point of 50 ksi. All material and Work shall conform to the latest AISC Specifications for Design, Fabrication, and Erection of Structural Steel for Buildings.
- B. Material properties of hot rolled structural shapes shall conform to ASTM A992, ASTM A529 or ASTM A572 with a minimum specified yield point of 50 ksi. Hot rolled angles, other than flange braces, shall conform to ASTM A36 minimum.
- C. Hollow structural shapes shall conform to ASTM A500 Grade B. Minimum yield point is 42 ksi for round HSS and 46 ksi for rectangular HSS.
- D. Material properties of cold-formed light gage steel members shall conform to the requirements of ASTM A1011 SS Grade 55, or ASTM A1011 HSLAS Class 1 Grade 55, with a minimum yield point of 55 ksi.
- E. Anchor Bolts: ASTM F1554, unprimed galvanized to ASTM A153/A153M.
- F. Bolts, Nuts, and Washers: ASTM A325, ASTM A325M.
- G. All welding is to be performed in accordance with AWS D1.1; type required for materials being welded.
- H. Framing Members Primary and Secondary and Accessories: Clean, prepare and shop prime. Prime to SSPC Manual requirements. Do not prime surfaces to be field welded.
- I. Interior Surfaces of Roof Components and Accessories: Clean, prepare, and shop prime. Prime to SSPC Manual requirements.

2.03 COMPONENTS - ROOF SYSTEM AND ENDWALLS AND SIDEWALLS

- A. Shall consist of preformed metal panels, with sub-girt framing/anchorage assembly; wind bracing for specified sections as shown on the Contract Drawings; and all associated accessory components.
- B. Sheet Steel Stock: 26 gauge steel preformed metal panels as indicated on the Contract Drawings as required by manufacturer's design.
- C. All washers, fasteners shall be per the manufacturer's standard type as indicated on the Contract Drawings. Size and design to maintain load and weather tightness requirements.

- D. The complete assembled roof system shall be leak-tight.

PART 3 - EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Verify foundation, mechanical, electrical utilities, and placed anchors are in correct position.
- B. Install materials according to manufacturer's written instructions.
- C. The HHW building exposed steel columns, rafters, flange braces, bottoms of preformed metal roof panels, bird slopes, etc. shall be final painted by the Contractor prior to building erection. Paint with metal building system manufacturer's standard primer with surface preparation. The color will be determined by the Owner prior to the time of application.

3.02 ERECTION - FRAMING

- A. Erect framing in accordance with MBMA Metal Building Systems Manual, Common Industry Practices.
- B. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection and installation of permanent bracing.
- C. Do not field cut or alter structural members without approval of manufacturer and Consultant.
- D. After erection, prime welds, abrasions, and surfaces not shop primed or needing touch-up.

3.03 ERECTION - ROOFING SYSTEMS

- A. Install all wall and roofing systems in accordance with manufacturer's instructions and details.
- B. Exercise care when cutting prefinished material to ensure cuttings do not remain on finish surface.
- C. Fasten cladding system to structural supports, aligned level and plumb.
- D. Install gaskets to prevent weather penetration where required by the manufacturer.
- E. Coating shall be painted/primed in accordance with SSPC Painting Manual.

3.04 ERECTION - GUTTER AND DOWNSPOUTS

- A. Provide Gutters and Downspouts. Rigidly support and secure components. Joint lengths with formed seams sealed watertight. Flash and seal gutters to downspouts.
- B. Install splash pads under each downspout.

3.05 OVERHEAD ROLL UP DOORS

- A. Complete overhead roll up door assemblies including door curtain, guides, counterbalance, hardware, operators and installation accessories shall be provided as specified.
- B. Overhead doors shall be the manufacturer's standard construction, fabricated on 0.034 inch minimum uncoated thickness galvanized steel or aluminum-zinc alloy coated steel. All hardware and accessories necessary for the complete installation for the door including galvanized steel track, brackets, lifting handles, torsion sprung mechanism, ball bearing rollers, cylinder locks, and weather stripping shall be furnished.
- C. Doors and frames shall be designed for wind-loading as indicated on the Drawings.
- D. Doors shall be manually operated unless otherwise specified. Doors greater than 144 ft² shall be chain hoist operated.

3.06 WALL LOUVERS

- A. Louvers shall be provided in accordance with the drawings and AMCA 500-L. The louvers shall be wind-driven louver and water penetration effectiveness "A". ~~Louvers shall be fabricated of aluminum-zinc alloy coated steel. The minimum uncoated thickness of materials shall be 0.048 inch for steel and 0.064 inch for aluminum and~~ The louver shall withstand the design seismic and wind loads. The minimum louver opening shall be 4' x 4'.
- B. Blades shall be fixed and secured to frames by riveting or welding. The blades shall have drain gutters or similar feature to provide resistance to rain penetration and the ability to drain rainwater away from the lover and opening.
- C. Frame is to be mechanically fastened or welded construction with welds dressed smooth and flush.
- ~~C-D.~~ After installation, all exposed prefinished and plated items and all items fabricated from stainless steel and aluminum are to be cleaned as recommended by the

manufacturer and protected from damage until completion of the project. Louvers shall be primed and finished to match wall panels.

- ~~D-E.~~ Inlet screens in re-wireable frames shall be provided on exterior face of louvers. The screens shall be secured with clips that facilitate removal for cleaning and rewiring. Screens may be made of aluminum, galvanized steel, or stainless steel.

3.07 ERECTION - TOLERANCES

- A. All Work shall be performed by experienced workmen in a workmanlike manner to published tolerances.
- B. Framing Members: Install framing and roofing in accordance with MBMA Metal Building Systems Manual, Common Industry Practices.

3.08 DELIVERY STORAGE AND HANDLING

- A. Deliver components and materials in manufacturer's standard protective packaging.
- B. Store all materials in accordance with manufacturer's storage and handling instructions.
- C. Unload, store, and handle materials in a manner to prevent bending, warping, twisting and surface damage.

END OF SECTION

ATTACHMENT 2

DRAWING S5

P:\Premier\2017\Blue_Martin\Porter\Struct\Drop Off AREA_Vrd-9.dwg May 15, 2018 10:17am Layout Name: S5 - CITIZEN DROP OFF & NEW HHW FOUNDATIONSLAB PLAN By: PremierStructural 1

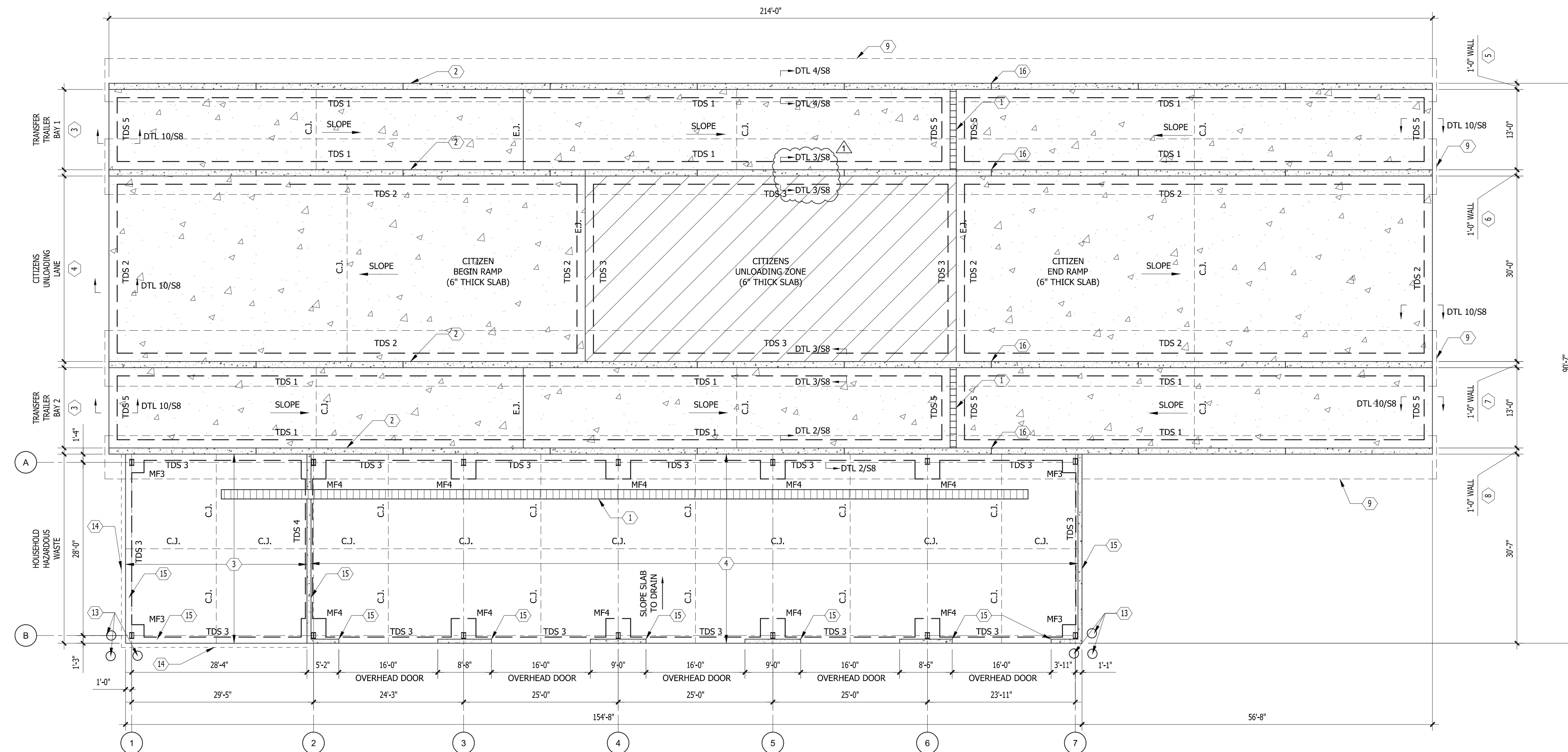
Khari Rodriguez

Digitally signed by Khari Rodriguez
 DN: serialNumber=36rhx83kxpbr8c6, c=US, st=Florida, o=Maitland, ou=Khari A. Rodriguez, P.E., cn=Khari Rodriguez
 Date: 2018.05.15 10:21:18 -04'00'

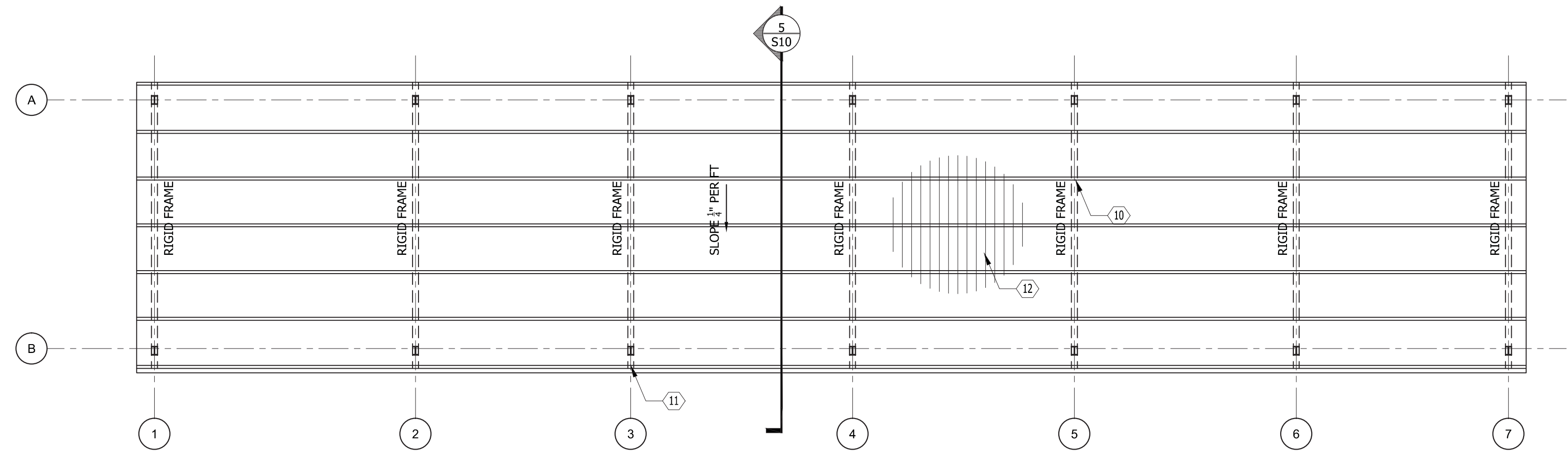


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Khari Rodriguez, State of Florida, Professional Engineer,
 License No. 60239.
 This item has been digitally signed and sealed by Khari Rodriguez, PE on 5-15-2018 using Digital Signature.
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NEW HHW AND CITIZEN DROP-OFF FOUNDATION/SLAB PLAN
 SCALE: 3/32" = 1'-0"



NEW HHW ROOF FRAMING PLAN
 SCALE: 3/32" = 1'-0"

MARK	SIZE (L x W x D)	BTM REINF.	TOP REINF.	REMARKS
TDS1	CONT. x 2'-0" x 16"	(3) #5 CONT.	(1) #5 CONT.	---
TDS2	CONT. x 2'-0" x 16"	(3) #5 CONT.	(1) #5 CONT.	---
TDS3	CONT. x 1'-0" x 16"	(2) #5 CONT.	(1) #5 CONT.	---
TDS4	CONT. x 1'-4" x 12"	(3) #5 CONT.	---	---
TDS5	CONT. x 12' x 16"	(2) #5 CONT.	(1) #5 CONT.	---
MF3	3'-0" x 3'-0" x 36"	(3) - #5	(3) - #5	EACH WAY
MF4	4'-0" x 4'-0" x 36"	(4) - #5	(4) - #5	EACH WAY

- CITIZEN DROP-OFF AND HHW BLDG. PLAN NOTES:
- INDICATES EXTENTS OF CITIZEN UNLOADING ZONE. REFERENCE PROPOSED SITE PLAN FOR LOCATION, LAYOUT, ELEVATION AND DIMENSIONS.
 - PROVIDE 1'-6" HIGH BATTER CURB THROUGHOUT THE LENGTH OF TRANSFER TRAILER BAYS 1 AND 2 (BOTH SIDES OF EACH BAY). REFERENCE RETAINING WALL DETAILS FOR BATTER CURB REINFORCEMENT. BATTER CURBS ARE NOT SHOWN ON PLAN (FOR CLARITY).
 - SLAB SLOPES ARE SHOWN POINTING TOWARDS DIRECTION OF LOWER ELEVATION. REFERENCE SHEET 7 FOR SLOPE PERCENTAGES AND SPOT ELEVATIONS.
 - "TDS" INDICATES TURN DOWN SLAB EDGE. REFERENCE DETAILS FOR SLAB EDGE DIMENSIONS AND REINFORCEMENT.
 - UNLESS NOTED OTHERWISE THE TOP OF ALL SHALLOW FOUNDATIONS SHALL BE -2'-0" BELOW ADJACENT GRADE ELEVATION.
 - PROVIDE GEOGRID PER SECTION 2070 BELOW ALL RETAINING WALL AND BUILDING SPREAD FOOTINGS. CONTRACTOR SHALL OVER EXCAVATE BOTTOM OF SPREAD FOOTINGS IN ORDER TO INSTALL GEOGRID AND FDOT #57 STONE AS PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. REFERENCE PROJECT GEOTECHNICAL REPORT FOR ADDITIONAL GEOGRID REQUIREMENTS INCLUDING BUT NOT LIMITED TO GEOGRID EXTENSIONS BEYOND SPREAD FOOTING AREAS AND MINIMUM LAP GEOGRID REQUIREMENTS.
 - REFERENCE PROJECT GEOTECHNICAL REPORT FOR PROJECT SUBGRADE PREPARATION REQUIREMENTS BENEATH CONCRETE PAVEMENTS AND BUILDING SLABS ON GRADE.
 - PROVIDE MODEL 3100 COMMERCIAL TYPE CHAIN OPERATED OVERHEAD DOORS BY ROLL UP DOORS DIRECT OR EQUIVALENT MANUFACTURER. PROVIDE SPEED BUMP AT OVER DOOR LOCATIONS PER DETAIL 1 ON SHEET S9.
 - PROVIDE WATERSTOP RX BY CETCO OR EQUIVALENT PRODUCT FOR HHW SECONDARY POURS I.E. BETWEEN SLAB TO CURBS AND SLAB TO SPEED BUMPS.
- KEY NOTES
- PROVIDE NEW TRENCH DRAINS REFERENCE SHEET 6 FOR LOCATION AND TYPE.
 - 1'-0" CAST IN PLACE CONCRETE RETAINING WALLS REF: SHEETS 7 AND S8 FOR TOP OF WALL ELEVATIONS.
 - PROVIDE 8" THICK SLAB REINFORCED W/ #5 BARS @ 12" O.C. TOP AND BOTTOM EACH WAY. PROVIDE TURNED DOWN SLAB EDGE AT PERIMETERS. TOP OF SLAB ELEVATION = 117.90
 - PROVIDE 8" THICK SLAB REINFORCED W/ #5 BARS @ 12" O.C. TOP AND BOTTOM EACH WAY. TOP OF SLAB ELEVATION = 117.90
 - RETAINING WALL "A" REF: DETAIL 4 ON SHEET S8.
 - RETAINING WALL "B" REF: DETAIL 3 ON SHEET S8.
 - RETAINING WALL "C" REF: DETAIL 2 ON SHEET S8.
 - RETAINING WALL FOOTING BELOW. REFERENCE DETAILS ON SHEET S8 FOR SIZE AND REINFORCEMENT.
 - ROOF PURLINS BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
 - PROVIDE GUTTER ALONG ROOF EDGE AND DOWNSPOUTS AT EACH COLUMN LOCATION.
 - PROVIDE STANDING SEAM METAL ROOF PANELS BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
 - PROVIDE 6" DIA. CONCRETE FILLED PIPE BOLLARDS AS SHOWN. SEE TYP. PIPE BOLLARD DETAIL 4 ON SHEET 13.
 - PROVIDE CHAIN LINK FENCE W/ 10FT SWING GATES. REFERENCE SHEETS 6 AND 16.
 - PROVIDE 8" WIDE x 6" TALL CONTAINMENT CURB PER DETAILS 2 AND 3 ON SHEET S9.
 - PROVIDE CONSTRUCTION/CONTRACT JOINTS PER DETAILS ON SHEET S9.

SHEET TITLE: **CITIZEN DROP OFF / NEW HHW FOUNDATION, SLAB AND ROOF PLANS**
 PROJECT TITLE: **PORTER TRANSFER STATION SITE IMPROVEMENTS**

CLIENT: **ORANGE COUNTY SOLID WASTE DIVISION ORLANDO, FLORIDA**

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CADD FILE:
 DATE: MARCH 2018
 SCALE: AS SHOWN
 DRAWING NO. **S-05**
 SHEET 23 of 34

ISSUED FOR BIDDING

ATTACHMENT 2

DRAWING S10

Khari Rodriguez

Digitally signed by Khari Rodriguez
 DN: serialNumber=36rhx83kxpbr8c6npqy
 x8lglc6, c=US, st=Florida, l=Maitland,
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Khari Rodriguez State of Florida, Professional Engineer,
 License No. 60239.

This item has been digitally signed and sealed by
 Khari Rodriguez, PE on 5-14-2018 using Digital Signature.

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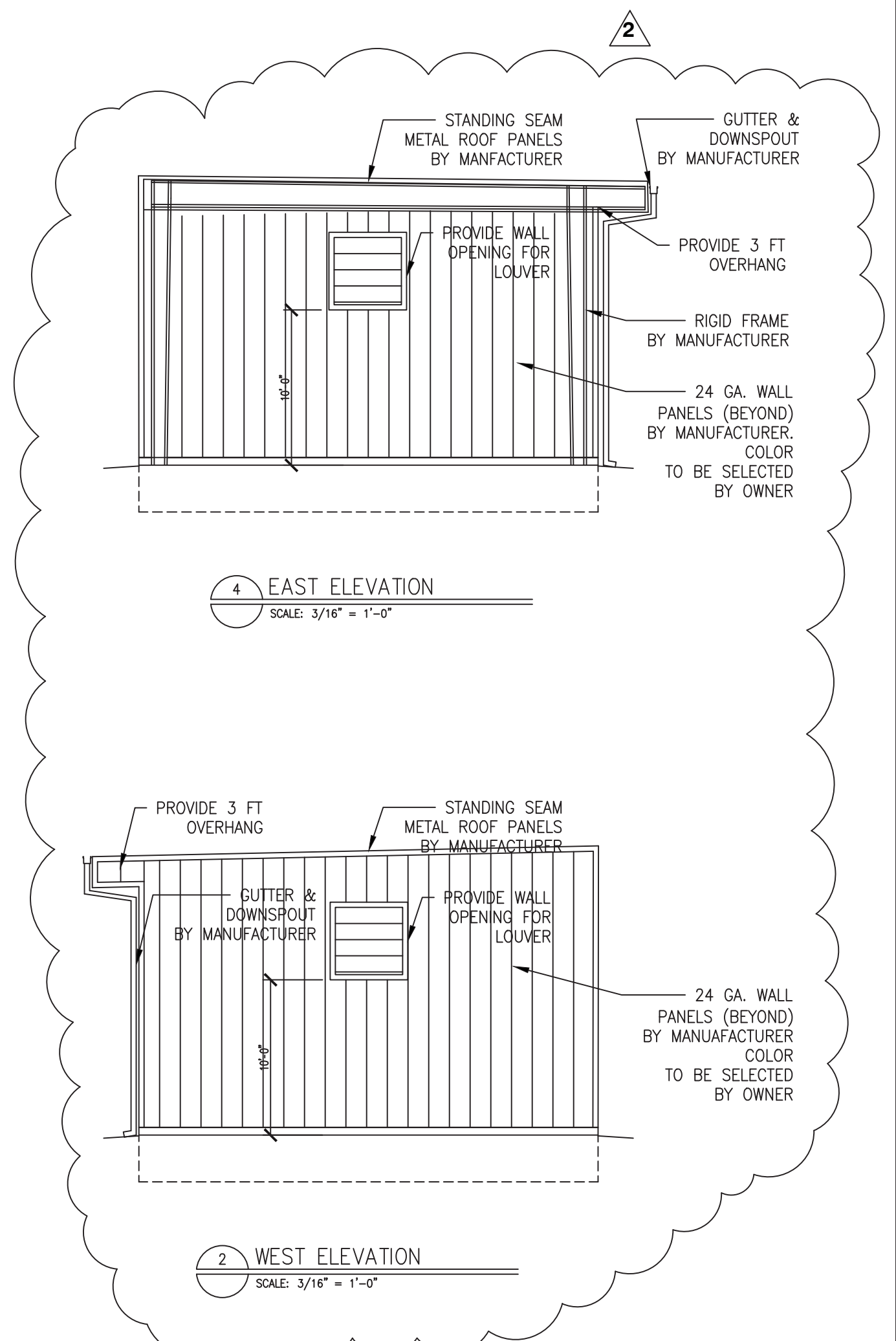
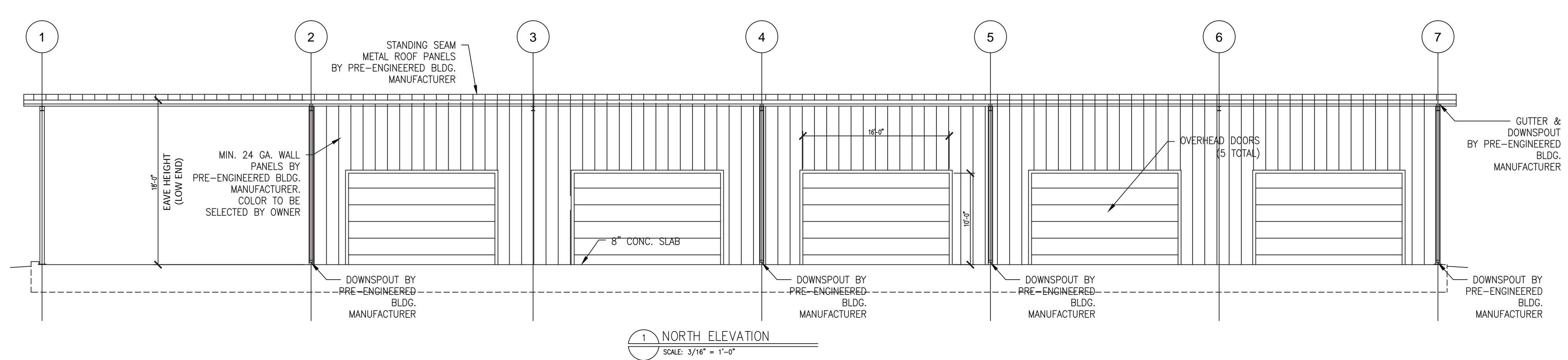
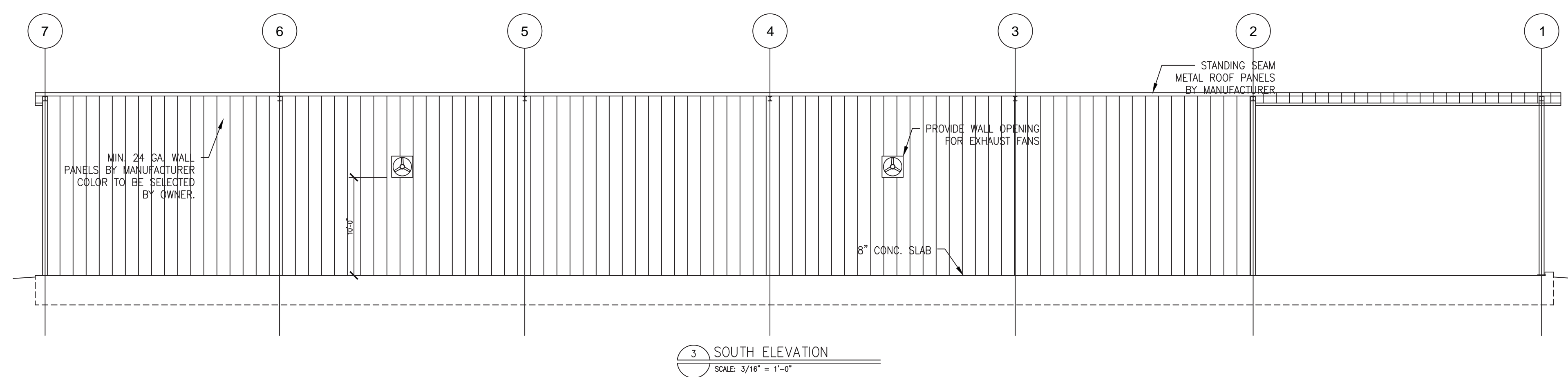
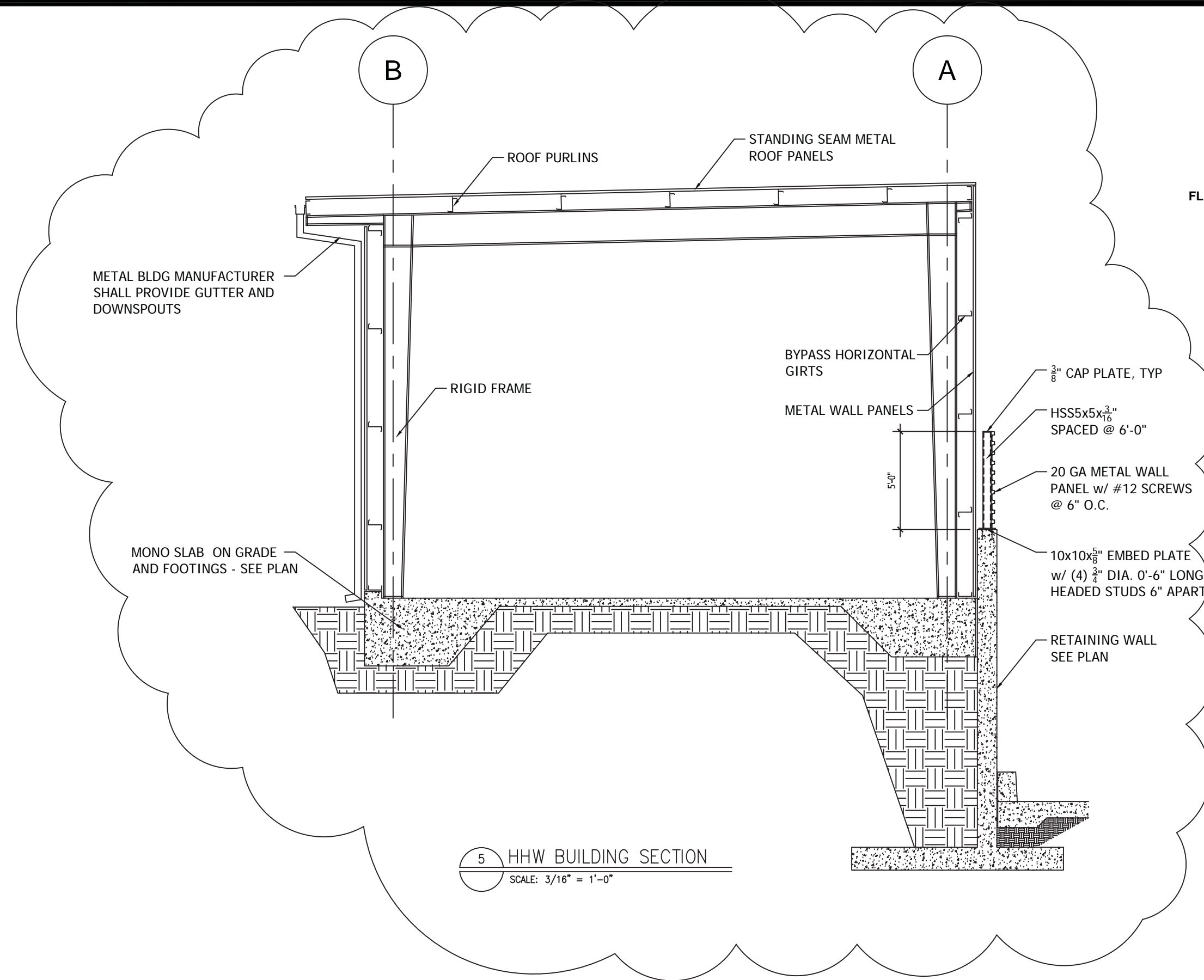
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	REVISED IN RESPONSE TO BID ADDENDA 2	5/14/18	1
			2
			3
			4
			5

SHEET TITLE
HHW SECTIONS AND DETAILS
 PROJECT TITLE
**PORTER TRANSFER STATION
 SITE IMPROVEMENTS**

CLIENT
**ORANGE COUNTY
 SOLID WASTE DIVISION
 ORLANDO, FLORIDA**

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 CHK. BY: KAR
 APP. BY: KAR

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