ADDENDUM No. 1
Request for Competitive Sealed Proposals (CSP)
19CSP077 New Classroom Building at Lee Elementary School

December 5, 2018

Item 1: Updates to Drawings and Specifications

Updates to Drawings and Specifications in reference to this project can be found at planroom.millerids.com under 19CSP077
AISD – LEE ELEMENTARY CLASSROOM BUILDING
17-0023 LEE

ADDENDUM NO. 1

December 4, 2018

To the DRAWINGS AND SPECIFICATIONS for

AISD Lee Elementary Classroom Building
3308 Hampton Road
Austin, Texas 78705

Project No. 201611500

TO: ALL PRIME BIDDERS OF RECORD

Acknowledge receipt of this Addendum by inserting its number in the Bidder’s Proposal. Failure to do so may subject the Bidder to disqualification. This Addendum forms a part of the Contract Documents as follows:

Architect
GSC Architects
901 South MoPac Expwy
Bldg. Ill, Suite 400
Austin, Texas 78746
(512) 477-9417 FAX (512) 477-9675

Civil Engineers
Doucet & Associates
7401 B Hwy 71 West, Suite 160
Austin, Texas 78735
(512) 583-2643 FAX (800) 587-2817

Structural Engineers
JQ+Tsen
210 Barton Springs Road, Suite 250
Austin, Texas 78704
(512) 474-4001 FAX (512) 474-9179

IT/Security
Combs Consulting Group
4425 South MoPac,
Building 4, Suite 800
Austin, Texas 78735
(210) 698-7887

Roofing
Hollon + Cannon
11800 Highland Oaks Trail
Austin, Texas 78759
(512) 300-0452

Mechanical-Electrical-Plumbing
Jones*DBR
7800 Shoal Creek Blvd., Suite 100-W
Austin, Texas 78757
(512) 637-4393 FAX (512) 637-4396

add.doc
DRAWINGS
1. A00-01 PROJECT INFORMATION: addition of sheet L-1, S04-22, S05-02
2. ADD sheet: L-1 LANDSCAPE PLAN
3. A03-01 FLOOR PLAN – LEVEL 1
   a. Remove general note #13
   b. Projector screen to be owner furnishes and contractor installed
4. A12-01 INTERIOR ELEVATIONS: Projector to be owner furnished and contractor installed
5. A12-02 INTERIOR ELEVATIONS: Projector to be owner furnished and contractor installed
6. A14-01 REFLECTED CEILING PLAN – LEVEL 1: Projector to be owner furnished and contractor installed
7. S01-01 STRUCTURAL NOTES:
   a. ADD: ‘Controlled backfill behind retaining walls’ notes
   b. REVISE: Cast-In-Place notes
8. S01-03 SPECIAL INSPECTIONS: Add sheet list
9. S02-01 WIND UPLIFT AND ROOF DECK ATTACHMENT PLAN: Add detail 2/S02-01
10. S03-01 FOUNDATION PLAN:
    a. ADD: section markers for the retaining wall
    b. ADD: stair and ramp section markers to Plan-North stair/ramp and Plan-West stair
    c. REVISE: Lug Elevation around perimeter of building
11. S03-02 ROOF FRAMING PLAN: Add callouts for roof top opening and roof top units
12. S04-21 TYPICAL STEEL DETAILS: Revision of structural details
13. S05-01 FOUNDATION DETAILS: Revision and addition of structural details
15. P02-01 PLUMBING SCHEDULES: Revise plumbing fixture schedule

SPECIFICATIONS
16. SECTION 012300: Revise substantial completion date in 3.1 Schedule of alternates
17. SECTION 220201: Add section to specifications
18. SECTION 23 07 13: Revision of specification
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   a. ADD: ‘Controlled backfill behind retaining walls’ notes
   b. REVISE: Cast-In-Place notes
8. S01-03 SPECIAL INSPECTIONS: Add sheet list
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SPECIFICATIONS
16. SECTION 012300: Revise substantial completion date in 3.1 Schedule of alternates
17. SECTION 220201: Add section to specifications
18. SECTION 23 07 13: Revision of specification
SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternate described in this Section are part of the Work only if enumerated in the Agreement.

2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.
D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

1. Substantial completion date to be changed from 12/13/2019 to 08/10/2019.
   a. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.
   b. ________________________________ Dollars ($____________).
   c. ADD____ DEDUCT____ calendar days to adjust the Contract Time for this alternate.

3.2 SUBMISSION OF BID SUPPLEMENT

A. Respectfully submitted this ____ day of ____________, 201_.

B. Submitted By:_____________________________________(Name of bidding firm or corporation).

C. Authorized Signature:____________________________________(Handwritten signature).

D. Signed By:______________________________________________(Type or print name).
   1. Title:______________________________________________

END OF SECTION 01 23 00
SECTION 22 02 01 - COORDINATION DRAWINGS

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

A. The requirements of the General Conditions 013100 and Supplementary Conditions apply to all Work herein.

1.2 COORDINATION DRAWINGS

A. The Contractor shall take the lead in coordinating the Mechanical, Electrical, Plumbing, Communications, Electronic Safety/Security and Fire Protection systems within the building.

B. The Mechanical Contractor shall coordinate a three-dimensional (3D) model of the building which includes the Mechanical, Electrical, Plumbing, and Fire Protection systems. The Electrical, Plumbing, and Fire Protection Contractors shall prepare their work and generate 3D models which will be given to the Mechanical Contractor for coordination. The Contractor will be provided with the REVIT model that was used to generate the contract documents, this file may be used as the background file. The Contractor shall replace the systems drawn with the actual shop drawing models. The Contractor is not limited to using REVIT, but may use any 3-D software in generating and combining the coordination model.

C. Submitting the contract drawings as coordination drawings will not be acceptable.

D. The model shall include detailed and accurate representations of all equipment to be installed based upon the reviewed equipment submittals.

E. The Mechanical Contractor shall hold a 3-D coordination meeting with all sub-contractors present to review the model and discuss coordination of the installation of the building systems.

F. Upon completion of the coordination meeting, the Contractor shall submit the 3-D model and ¼” scale drawings for review.

G. The model shall detail major elements, components, and systems in relationship with other systems, installations, and building components. Indicate locations where space is limited for installation and access and where sequencing and coordination of installations are of importance to the efficient flow of the Work, including (but not necessarily limited to) the following:

1. Indicate the proposed locations of pipe, duct, equipment, and other materials. Include the following:
   a. Wall and type locations.
   b. Clearances for installing and maintaining insulation.
   c. Locations of light fixtures and sprinkler heads.
   d. Clearances for servicing and maintaining equipment, including tube removal, filter removal, and space for equipment disassembly required for periodic maintenance.
   e. Equipment connections and support details.
   f. Exterior wall and foundation penetrations.
   g. Routing of storm and sanitary sewer piping.
   h. Fire-rated wall and floor penetrations.
i. Sizes and location of required concrete pads and bases.

j. Valve stem movement.

k. Structural floor, wall and roof opening sizes and details.

2. Indicate scheduling, sequencing, movement, and positioning of large equipment into the building during construction.

3. Prepare floor plans, elevations, and details to indicate penetrations in floors, walls, and ceilings and their relationship to other penetrations and installations.

4. Prepare reflected ceiling plans to coordinate and integrate installations, air distribution devices, light fixtures, communication systems components, and other ceiling-mounted items.

A. Sequence of Coordination

Below is hierarchy of model elements and the sequencing by which the models will be coordinated.

1. Structural and Architectural model

2. Miscellaneous steel

3. Perform preliminary space allocation

4. Identify hard constraints (locations of access panels, lights, A/V space requirements, etc.)

5. Main and medium pressure ducts from the shaft out

6. Main graded plumbing lines and vents

7. Sprinkler mains and branches

8. Cold and hot water mains and branches

9. Lighting fixtures and plumbing fixtures

10. Smaller sized ducts and flex ducts

11. Smaller size cold water and hot water piping, flex ducts, etc.

B. The Contractor and Sub-Contractors shall not install any item until the coordination has been completed and reviewed by the Construction Manager, Owner, and A/E team.

C. This Contractor shall be responsible for coordination of all items that will affect the installation of the work of this Division. This coordination shall include, but not be limited to: voltage, ampacity, capacity, electrical and piping connections, space requirements, sequence of construction, building requirements and special conditions.

D. By submitting shop drawings on the project, this Contractor is indicating that all necessary coordination has been completed and that the systems, products and equipment submitted can be installed in the building and will operate as specified and intended, in full coordination with all other Contractors and Subcontractors.

END OF SECTION
SECTION 23 07 13 - DUCT INSULATION

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

A. The requirements of the General Conditions and Supplementary Conditions apply to all work herein.

B. Section 23 02 00 - Basic Materials and Methods is included as a part of this Section as though written in full in this document.

1.02 WORK INCLUDED

A. Ductwork system insulation.

1.03 RELATED SECTIONS

A. Section 23 05 13 – Common Motor Requirements for HVAC Equipment

B. Section 23 05 53 – Identification for HVAC Piping and Equipment

1.04 QUALITY ASSURANCE

A. Installer’s Qualifications: Firm with at least 5 years successful installation experience on projects with mechanical insulations similar to that required for this project.

B. Flame/Smoke Ratings: Provide composite mechanical insulation (insulation, jackets, coverings, sealers, mastics and adhesives) with flame-spread index of 25 or less, and smoke-developed index of 50 or less, as tested by ASTM E 84 (NFPA 255) method.

1. Exception: Outdoor mechanical insulation may have flame spread index of 75 and smoke developed index of 150.

C. Duct and plenum insulation shall comply with minimum R-value requirements of 2012 International Energy Conservation Code.

D. Adhesive and other material shall comply with NFPA and NBFU Standards No. 90A and 90B.

1.05 WARRANTY

A. Warrant the Work specified herein for one year against becoming unserviceable or causing an objectionable appearance resulting from either defective, or nonconforming materials and workmanship.

B. Defects shall include, but not be limited to, the following:

1. Mildew.
2. Peeling, cracking, and blistering.
3. Condensation on exterior surfaces.

1.06 SUBMITTALS

A. SHOP DRAWINGS: Indicate size, material, and finish. Show locations and installation
procedures. Include details of joints, attachments, and clearances.

B. PRODUCT DATA: Submit schedules, charts, literature, and illustrations to indicate the performance, fabrication procedures, project variations, and accessories. Submit product data and/or Material Safety Data Sheets (MSDS) for all adhesives and sealants, paints and coatings used inside the building’s moisture barrier indicating the VOC content of each product and verifying that each product meets the requirements of Green Seal GS-11, SCAQMD Rule 1113, and SCAQMD rule 1168 as relevant.

C. SUSTAINABLE REQUIREMENTS:

1. For adhesives and sealants, documentation including printed statement of VOC content.

1.07 DELIVERY, STORAGE AND HANDLING

A. Deliver insulation, coverings, cements, adhesives, and coatings to site in unopened containers with manufacturer’s stamp, clearly labeled with flame and smoke rating, affixed showing fire hazard indexes of products.

B. Protect insulation against dirt, water and chemical and mechanical damage. Do not install damaged or wet insulation; remove such from project site.

PART 2 - PRODUCTS

2.01 GENERAL DESCRIPTION

A. The type of insulation and its installation shall be in strict accordance with these specifications for each service, and the application technique shall be as recommended by the manufacturer. All insulation types, together with adhesives and finishes shall be submitted and approved before any insulation is installed.

B. A sample quantity of each type of insulation and each type of application shall be installed and approval secured prior to proceeding with the main body of the Work.

C. All insulation shall be free of formaldehyde binders.

2.02 ACCEPTABLE MANUFACTURERS

A. Glass fiber materials shall be as manufactured by Knauf, Certain-Teed, Johns-Manville or Owens-Corning and shall have the same thermal properties, density, fire rating, vapor barrier, etc., as the types specified herein, subject to review by the Engineer.

B. Adhesives shall be as manufactured by Minnesota Mining, Arabol, Benjamin-Foster, Armstrong or Insulmastic, Inc., and shall have the same adhesive properties, fire rating, vapor seal, etc., as the types specified herein, subject to review by the Engineer. Submit product data and/or Material Safety Data Sheets (MSDS) for all adhesives and sealants, paints and coatings used inside the building’s moisture barrier indicating the VOC content of each product and verifying that each product meets the requirements of Green Seal GS-11, SCAQMD Rule 1113, and SCAQMD rule 1168 as relevant.

C. Ceramic fiber materials shall be as manufactured by Primer Refractories, A.P. Green Refractories or approved equal.

PART 3 - EXECUTION
3.01 GENERAL

A. All insulation shall be installed in accordance with the manufacturer's recommendations and printed installation instructions.

B. All items required for a complete and proper installation are not necessarily indicated on the plans or in the specifications. Provide all items required as per manufacturer's requirements.

3.02 EXTERNAL DUCT INSULATION

A. External duct insulation shall contain no formaldehyde binders.

B. Fasten all longitudinal and circumferential laps with outward clinching staples 3" on center. On rectangular ducts over 24" wide apply as above and hold insulation in place on bottom side with mechanical pins and clips on 12" centers.

C. Seal all joints, fastener penetrations and other breaks in vapor barrier with 3 inch wide strips of white glass fabric embedded between two coats of vapor barrier mastic, Childers CP-30 or approved equal.

D. All external duct insulation shall be Johns Manville Microlite EQ or Microlite XG fiberglass duct wrap insulation with reinforced aluminum facing or approved equal.

E. External duct wrap is required on all outside air ducts, supply and return air ducts that are not internally insulated. Duct wrap shall be provided as follows:

1. 1½" thick, 1.0 PCF density minimum when ducts are located in conditioned spaces.
2. 2" thick with a minimum installed R-value of 6 when ducts are located in unconditioned spaces, such as ceiling plenum space.

3.03 DUCT LINER

A. Duct liner shall be kept clean and dry during transportation, storage, installation, and throughout the construction process care should be taken to protect the liner from exposure to the elements or damage from mechanical abuse.

B. All portions of duct designed to receive duct liner shall be completely covered with liner as specified. The smooth, black, acrylic-coated surfaces with flexible glass cloth reinforcement shall face the airstream. All duct liner shall be cut to assure tight, overlapped corner joints. The top pieces shall be supported by the sidepieces. Duct liner shall be installed following the guidelines in the NAIMA "Duct Liner Installation Standard".

C. The duct liner shall be tested according to erosion test method in UL 181 and shall be guaranteed to withstand velocities in the duct system up to 5000 fpm without surface erosion.

D. Duct liner shall be adhered to the sheet metal with full coverage of an approved adhesive that conforms to ASTM C 916, and all exposed leading edges and transverse joints shall be coated with Permacote factory-applied or field-applied edge coating and shall be neatly butted without gaps. Shop or field cuts shall be liberally coated with Johns Manville SuperSeal® duct butter and Edge Treatment or approved adhesive.
E. Metal nosings shall be securely installed over transversely oriented liner edges facing the airstream at forward discharge and at any point where lined duct is preceded by unlined duct.

F. When velocity exceeds 4000 fpm (20.3 m/sec), use metal nosing on every leading edge. Nosing may be formed on duct or be channel or zee attached by screws, rivets or welds.

G. The liner shall further be secured with Graham welding pins and washers on not more than 18 inch centers both vertical and horizontal surfaces, and the pins and washers shall be pointed up with adhesive.

H. Duct liner shall be Johns Manville Linacoustic RC fiberglass duct liner with factory-applied edge coating and acrylic coating on the mat surface of airstream side or approved equal. The liner shall meet the Life Safety Standards as established by NFPA 90A and 90B, FHC 25/50 and Limited Combustibility and the air stream surface coating should contain an immobilized, EPA-registered, anti-microbial agent so it will not support microbial growth as tested in accordance with ASTM G21 and G22. The duct liner shall conform to the requirements of ASTM C 1071, with an NRC not less than .70 as tested per ASTM C 423 using a Type "A" mounting, and a thermal conductivity no higher than .25 BTU•in/(hr•ft2•°F) at 75°F mean temperature.

I. Line supply and return ductwork at connection of HVAC unit to a point of 5 feet upstream and downstream of the equipment and in return air boots. Attach with full cover coat of cement, duct dimensions up to 16 inches; provide stick clips or screws and cap for dimensions over 16 inches, spaced 16 inches o.c. maximum. Provide sheet metal liner cap over all leading edges of internal insulation exposed to air stream.

J. Duct liner shall be provided as follows:
   1. 1" Thick, 1.5 PCF density minimum when ducts are located in conditioned spaces.
   2. 1 ½" Thick with a minimum installed R-value of 6 when ducts are located in unconditioned spaces, such as ceiling plenum space.
   3. 2" Thick with a minimum installed R-value of 8 when ducts are located outdoors.

3.04 EXPOSED DUCTWORK LOCATED INDOORS

A. Duct routed exposed in occupied spaces shall be double wall.

B. Round and flat oval duct routed exposed shall be double wall with perforated inner liner and 1” thick layer of fiberglass insulation as manufactured by United McGill Company model no. Acousti-27 or approved equal. Insulation density shall be a minimum of 1.0 PCF.

3.05 EXPOSED DUCT LOCATED OUTDOORS

A. All duct located outdoors shall be internally lined as specified and also shall have a 2” thick, 6 lb. density rigid board external duct insulation, finished with aluminum jacketing.

B. Paint non-insulated duct. Coordinate color with Architect.

3.06 AIR DEVICE AND MISCELLANEOUS DUCT INSULATION

A. The backside of all supply air devices shall be insulated with taped and sealed 1½ inch thick external duct wrap.
B. The contractor shall install an additional layer of 1½ inch thick external fiberglass duct wrap on any portion of the supply air, return air, outside air, or exhaust air system that has condensation forming during any period of operation. The insulation shall be taped and sealed and located until all evidence of the condensation has been eliminated, at no additional cost to the Owner.

END OF SECTION
The proposed tree care plan will satisfy mitigation for the 20 inch Pecan and 8 inch Mountain Laurel removed during Crapemyrtle construction of the building addition.

1. Solid sod disturbed area with Bermuda Grass 'Celebration'.
2. Dwarf Burford Holly 'Ilex cornuta 'Burfordii Nana'

Shredded hardwood mulch must contain long strands along with double shred finer material obtained from a local source.

Temporary irrigate new sod areas until established.

Dwarf Burford Holly 'Ilex cornuta 'Burfordii Nana'

Temporary irrigate new sod areas until established.

Apply 4 inches of shredded hardwood mulch to the entire canopy area. Leave a 6 inch space around the trunk.

Fertilizer amount 15 pounds per 100 gallons of water. Using a hydraulic injection system inject the mixture at 200 psi. Start 2 feet from the trunk and inject every 3 feet at a depth of between 6 and 12 inches throughout the canopy area. Use XL Injecto Feed 12-24-24 from Doggett, Inc and Myconate mycorrhizal (VAM) fungi from Plant Health Care, Inc.

Inject one half gallon of fertilizer at each hole.
GENERAL NOTES - R.C.P.

1. THESE NOTES APPLY TO ALL REFORCED CONCRETE SHEETS, WHICH ARE FOR DESIGN OF THESE ELEMENTS. DO NOT USE THESE DETAIL INSERTS IN ANY OTHER DRAWING OR SHEET.

2. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DESIGN OF THESE ELEMENTS. DO NOT USE THESE DETAIL INSERTS IN ANY OTHER DRAWING OR SHEET.

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20. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DESIGN OF THESE ELEMENTS. DO NOT USE THESE DETAIL INSERTS IN ANY OTHER DRAWING OR SHEET.
A. All requests for substitutions of materials or details shown in the contract structural drawings and specifications shall not be considered. The above criteria will not be considered.

B. Only larger sleeve openings and framed openings in the structural design are as follows:

C. Identification of savings or duration to be deducted from the price during the bidding period.

D. Structural contract documents shall be submitted to the engineer for verification of loads used in the design at least two times before construction.

E. Structural components shall not result in the overstress or damage of the elements of the building. The engineer shall not result in the overstress or damage of the elements of the building. It is the responsibility of the contractor to provide all materials and components similar to those described in the details.

F. The structural drawings in all areas where conditions are similar to those described in the details shall not be reproduced and used as shop drawings. All items and components shall be identified as follows:

G. Restroom accessories, such as grab bars, fasteners, and materials shall comply with the local code.

H. All construction, including masonry, concrete, and steel, shall meet the following requirements:

I. Submittal: Submit proposed mix designs in accordance with ACI and other relevant standards.

J. Concrete placements shall not exceed 10,000 square feet or 100 linear feet on each side without prior approval by the owner or architect.

K. Concrete sampling for quality assurance: Concrete that is sampled and tested shall comply with the following requirements:

L. Steel system not specifically detailed for seismic resistance shall comply with the following requirements:

M. Compression and moisture content of controlled backfill shall be verified by an independent testing laboratory.

N. Backfill material shall consist of crushed limestone well-graded.

O. Compaction and moisture content of controlled backfill shall be verified by the center of spans in accordance with the typical details.

P. Concrete sampling for quality assurance: Concrete that is sampled and tested shall comply with the following requirements:

Q. Concrete placements shall not exceed 10,000 square feet or 100 linear feet on each side without prior approval by the owner or architect.

R. Concrete sampling for quality assurance: Concrete that is sampled and tested shall comply with the following requirements:

S. Structural notes and specifications, the strictest requirements, shall apply to all work of the contractor. Periodic check in an effort to inform the owner against defects and deficiencies in the work of the contractor.
1. Special Inspections shall be performed in accordance with Chapter 17 of the 2015 International Building Code (IBC) by a Special

SPECIAL INSPECTIONS

1. Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI).

INSPECTION VERIFICATION AND INSPECTION reports to the building official and the Architect for all time spent at the site. The Inspector shall bring discrepancies to the verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection approved agency according to the City's building official to perform the special inspections for which they will be undertaking.

AMERICAN CONCRETE INSTITUTE A.C.I. MECHANICAL MECH.

cracks within 3 in. (75 mm) of the weld.

YES X 3) Crater cross section EXTERIOR EXT. STIFFENER STIFF.

YES f. Configuration and finish of access holes. BRICK LEDGE B.L. PAN P

2. Inspection tasks during bolting:

b. Joint brought to the snug-tight condition prior to YES -- X 2 the pretensioning operation AISC 360-10 1705.2.1 N5.6-2

Fasteners marked in accordance with ASTM requirements YES b. X

2) Weld/base-metal fusion EXPANSION JOINT E.J. STEEL JOIST INSTITUE S.J.I.

2) Each pass within profile limitations EACH FACE E.F. SLAB-ON-GRADE S.O.G.

4) Tacking (tack weld quality and location)

1) Joint preparation AISC 360-10 BELOW FINISH FLOOR B.F.F. OPENING OPNG.

REQUIRED SPECIAL INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC TABLE 1705.2.3)

b. Grouting of bonded prestressing tendons X -- ACI 318:

SPECIAL INSPECTION TABLES FOR STRUCTURAL ELEMENTS - 2015

c. Material identification (type/grade) -- X

2. Reinforcing bar welding:

a. Document acceptance or rejection of bolted YES X -- N5.6-3 connections

AISC 360-10 FABRICATE FAB. STRUCTURAL STRUCT'L 6) Undercut N5.4-2: 1705.2.1 FAR SIDE F.S. STRUCTURE STRUCT. 7) Porosity FIELD VERIFY F.V. SUBCONTRACTOR SUBCONTR. AWS D1.1

Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared

-- X

-- --

-- X

-- --

-- X

ACI 318:

dimensions of the concrete member being

inclined orientations to resist sustained tension loads. X -- ACI 318:

ACI 318 Ch. 20, 26.10.2 --

1908.10

ACI 318:

ACI 318:

ACI 318:

ACI 318:

ACI 318:

ACI 318:
AUSTIN INDEPENDENT SCHOOL DISTRICT

1. ENSURE THAT ANGLE FRAME SUPPORTS ENTIRE PERIMETER SHOWN ON EACH SIDE OF JOIST.

2. ENSURE THAT ANGLE FRAME SUPPORTS SECTION 1C ENTIRE PERIMETER OF MECHANICAL UNIT CURB.

2. WHERE SUPPLY AND RETURN DUCTS STRADDLE A THE RTU CURBS EXTEND ACROSS TWO JOISTS.

3. OMIT STANDARD CROSS SECTION.

3. THIS DETAIL APPLIES ONLY TO THE CASE WHERE THE UNIT CURB.

RTU CURBS EXTEND ACROSS TWO JOISTS.

4. ENSURE THAT ANGLE FRAME SUPPORTS ENTIRE PERIMETER SHOWN ON EACH SIDE OF JOIST.

3/16 HATCH OPNG, MITERED FRAME HSS4X2 1/2X1/4 (LSH) 0"

SEE ARCH'L DECK STEEL JOIST/BEAM.

4\" MIN. (TYP.) LENGTH OF MECHANICAL UNIT (COORDINATE W/ MEP DWG'S)

NO SCALE NO SCALE NO SCALE NO SCALE

TYPICAL SCHEMATIC ROOFTOP MOUNTED MECHANICAL UNIT OPENING FRAMING DETAILS

TYPICAL SCHEMATIC ROOF HATCH SUPPORT OPENING FRAMING DETAIL

TYPICAL ROOF OPENING DETAIL

TYPICAL DUCT OPENING AT CROSS BRIDGING DETAIL
SCALE: 3/4" = 1'-0" SCALE: 3/4" = 1'-0" SCALE: 3/4" = 1'-0"

DETAIL AT RAMP DETAIL AT RAMP DETAIL AT RAMP 1 2 3

RETAINING WALL DETAIL W/ STD ACI HOOKS @ EA. END 1. FOOTING SHALL BE PLACED ON UNDISTURBED EXISTING
EXISTING SOILS (STRATUM 1), SEE NOTE 1

#4 CONT. @ 12" O.C. TOP & BOTT.

SEE ARCH'L VARIES T.O. FTG. EL. #5 @ 12" O.C. DWL'S +563.39' EA. FACE +569'-0"

CLASS "B" LAP SPLICE 3" CLR.

3" CLR.

3" CLR.

3/4" CHAMFER, TYP.

1'-8"

1'-2" 1'-2" & (2) - #5 CONT. @ 10" O.C.

W/ # 3 STIRRUPS @ 12" O.C.

3'-6" 10" 1'-0"

5. CAPPED GRANULAR FILL MATERIAL W/ COMPACTED COHESIVE FILL MATERIAL.

3. PERFORATED RIGID PLASTIC DRAIN LINE, SEE CIVIL DRAWINGS FOR SIZE AND
SLOPE REQUIREMENTS. DRAIN LINE SHOULD BE SURROUNDED BY CLEAN, FREE-
EXCAVATIONS ARE PROPERLY CLEAN & DRY BEFORE CONCRETE
THE PROPER BEARING STRATUM IS OBTAINED AND THAT
SOIL OR ROCK. FOOTING EXCAVATION SHALL BE INSPECTED

4. BACKFILL BEHIND RETAINING WALLS, SEE STRUCTURAL NOTES

NOTES: #5 @ 12" O.C. TOP & BOTT.

4'-0" W/ # 3 STIRRUPS @ 12" O.C. 1'-2" 1'-2" & (2) - #5 CONT. @ 10" O.C.

GRADE BEAM EL. @ 1'-8" (2) - #6 TOP AND BOTT.

(2) - #5 CONT. HORIZ. @ 12" O.C.

FINISH GRADE, SEE CIVIL DWG'S

SEE ARCH'L #5 2'-6" SLAB DWL'S @ 14" O.C. SEE PLAN

3'-10" 5" 1/2" E.J. FLATWORK, SEE CIVIL

CRUSHED LIMESTONE FILL, SEE STRUCTURAL SEE 3/S4.01 FOR @ 12" O.C. 6" W/ # 3 STIRRUPS @ 12" O.C.

VAPOR RETARDER

DO NOT EXTEND UNDER GRADE BEAM

VAPOR RETARDER

SEE PLAN T.O.C. EL. T.O.C. EL.

SEE PLAN, (VERIFY W' ARCH'L/CIVIL)

9 5/8" 2'-6" HANDRAIL,

3/S4.01 FOR NOTES

SEVEN CONTACTS

3'-6" 10" 1'-0"

GSC Architects

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