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120 Vassar Drive SE Suite 100
Albuquerque New Mexico 87106
T 505 242 6880 • F 505 242 6881

ADDENDUM 003

DATE: September 10, 2019
ADDENDUM NUMBER: 003
DG PROJECT NUMBER: 3050
PROJECT NAME: APS Coyote Willow Family School – Phase 2

PROJECT ADDRESS: 7125 Irving Blvd NW, Albuquerque, NM 87114
ISSUED BY: Wendy E.S. Caruso, AIA, Project Manager

NOTICE: ***This addendum forms a part of the Contract Documents and modifies the Documents issued by The Hartman + Majewski Design Group and dated September 14, 2018. Acknowledge receipt of this Addendum in locations required on the Pricing Forms. Failure to do so may subject the Proposer to disqualification. All other provisions of the Contract Documents shall remain unchanged. This Addendum contains a total of Twenty-Nine (29) 8 ½" x 11" pages and Sixteen (16) 30" x 42" replacement sheets.***

GENERAL CLARIFICATIONS:

1. Contractor to remove existing 6" thick concrete mow strip of approximately 45' in length and 16" wide along the west elevation where the new construction attaches to the existing building.

2. Per owner directive, PV over the parking lot at Coyote Willow is removed from this scope of work and will be provided thru a separate contract.

3. Question: What is the psi for the exterior, foundation and other concrete?
   Response: This question is answered in sect 4.A.(3) of the General Structural Notes

4. Question: On Sheet A111; Room 232, how many ovens?
   Response: 2 ovens

5. Question: A403, elev. F3, D3 and D4 show what appear to be paper towel dispensers and soap dispensers, is this correct?
   Response: Yes these are paper towel and soap dispensers.

6. Question: B3, F3/A401, E3/A402 and E1/A403 all show 58" marker boards with a 9" tack strip. Is this correct?
   Response: The design intent is for marker boards and tack strips to match existing phase.

7. Question: Are room signs required at each room at each door?
   Response: Yes

8. Question: What is Allowance No. 1(HVAC equipment)?
   Response: This has been removed in Addendum 003

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9. Question: Section IV.B – "Submission of Price Proposal – Volume I" requires one original copy and one digital copy to be submitted by 9/17 at 3:00PM. Due to the nature of bid price development, most general contractors do not receive pricing from subcontractors until shortly before the bid deadline. This creates a challenge for general contractors to develop both a hard copy and digital copy of the Price Volume. If the original copy of Volume I is submitted by the stated deadline (9/17 at 3:00PM), would APS allow the "digital copy" of Volume I to be submitted with Volume II on the following day?

   Response: It is acceptable to submit the digital copy of Volume 1 with Volume II o September 18, 2019 at 3:00PM. All information related to Volume 1 must be identical to the submitted documents delivered to APS on September 17, 2019. Digital copy submitted on September 18, 2019, must have both Volumes separated from each other.

10. Question: The Subcontract List and Assignment of Anti-Trust Claims Form identifies the Listing Threshold for this Project to be $15,160.00. We believe this should be $16,600, which is equal to one half of one percent of the of engineer's or architect's estimate of the total project cost, not including alternates. Please confirm

    Response: $16,600 is the correct amount for the Listing Threshold

11. Question: Partition types are showing "Prospec Decimal Drop" between layers of gypsum board. This product is no longer manufactured. Can we use St. Gobain Green glue instead?

    Response: St. Gobain Green glue is acceptable for use in lieu of Prospec Decimal Drop.

12. Question: Is the three year maintenance agreement going to be required?

    Response: A three year maintenance agreement has been removed from scope.

13. Question: S101- At the tie in to the existing building…7/SA 201…where is this section?

    Response: The correct reference is 7/S201.

14.

15. Question: S001 calls for 3000 PSI concrete at all interior floor slabs. Spec 033510.1.3.B.1 Polished Concrete calls for 4000 PSI. Which is correct?

    Response: 4000 PSI concrete at all interior floor slabs. Refer to revised Sheet S001 as attached to Addendum 003.

16. Question: What is the status of the building permit?

    Response: The project has been submitted to CID for review.

17. Question: M601 shows the kiln vent thru the exterior wall; M101, KN14, calls for the vent to be run thru the roof. Which is correct?

    Response: Kiln vent to run thru the roof. Refer to the attached M601 as attached to Addendum 003.

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18. Question: A111, KN 9 at Mech 219...is this correct?
    Response: No, this should be KN 8. Refer to A111 as attached to Addendum 003.

19. Question: A112 Room 231, has elevation referring to A404…there is no A404.
    Response: Reference tags have been updated to correct this discrepancy. Refer to A112 as attached to Addendum 003.

20. Question: Where are pencil sharpeners located?
    Response: Refer to A111 as attached to Addendum 003.

21. Question: Is there a KNOX Box specification?
    Response: No, a KNOX Box was installed in Phase 1 and is not included in Phase 2 scope.

22. Question: Is there a Bike Rack specification? A111, KN 9 at Mech 219…..is this correct?
    Response: No, Bicycle racks were installed in Phase 1 and is not included in Phase 2 scope.

23. Question: F3/A402, what is KN 37?
    Response: There is no KN 37. Note location has been corrected. Refer to A402 as attached to Addendum 003.

24. Question: B3, F3/A401, E3/A402 and E1/A403 all show 58" marker boards with a 9" tack strip. Is this correct?
    Response: No, provide 48" marker board with a 1" tack strip to match existing marker boards installed in Phase 1.

25. Question: B3/A401, what is KN 32?
    Response: This detail was removed. Refer to A401 as attached to Addendum 003.

26. Question: C1/A402, what is KN 39?
    Response: This should be KN 33. Refer to A402 as attached to Addendum 003.

27. Question: F3/A402, B4/A401…should this be A5/A402? There is no B4/A401.
    Response: Refer to A401, A402, and A403 as attached to Addendum 003.

28. Question: Are room signs required at each room at each door?
    Response: Yes.

29. Question: A111, KN5, says to see A402 for elevations...can't find these elevations.
    Response: Refer to A402 as attached to Addendum 003.

30. Question: E5/A402, where is this elevation?
    Response: There is no E5/A402. Refer to attached drawings for updated information.

31. Question: B3/A401, where is the teaching wall? One in each classroom?
    Response: Yes, one per classroom. Refer to attached drawings for updated information.

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32. Question: A1/I600 has sections C1 and C2 AI602, where is that sheet?
    Response: Refer to I600 as attached to Addendum 003

33. Question: A1/I600, KN 1, there are no keyed notes on this sheet, what is it?
    Response: Corner Guard. Refer to I600 as attached in Addendum 003.

34. Question: Are Impact Fees Associated with this project? If so, are the Impact Fees the responsibility of the Contractor or the Owner? If the Impact Fees are the responsibility of the Contractor, are the fees known and can you please publish the value?
    Response: No impact fees are associated with this project.

35. Question: The finish schedule and the RCP for the following rooms don't match: 201,223,227,232 and 233. Which is correct?
    Response: the RCP is correct.

36. Question: Who is to pay for concrete and soils testing?
    Response: Third party testing for concrete and soils will be provided by owner.

PRIOR APPROVALS:

1. 07 4113.16 Standing-Seam Metal Roof Panels

A. The following manufactures have been approved to bid:
Drexel Metals Standing Seam Roof System; DMC-200S

2. 26 5000 Lighting Equipment

Fixture Type	Approved Substitution
A	As Specified
B	HE Williams, Columbia, Acuity
B1	HE Williams, Columbia, Acuity
C	HE Williams, Columbia, Acuity
D	HE Williams, Columbia, Acuity
D1	HE Williams, Columbia, Acuity
E	HE Williams, Columbia, Acuity
E1	HE Williams, Columbia, Acuity
F	As Specified
G	Lightolier, Prescolite, Acuity
H	HE Williams, NewStar
K	We-ef, Lumux
L	As Specified
N	As Specified
EM	Astralite
EM1	Mule, Exitronix, EELP
EM2	As Specified

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X	Daybrite, Exitronix
X1	Mule, Exitronix, Acuity

CHANGES TO SPECIFICATIONS:

Table of Contents:

A. Delete Section 00 3300.

B. Change Section 01 1883 to read as follows:

01 8113 SUSTAINABLE DESIGN REQUIREMENTS – LEED v4 FOR SCHOOLS

A. Table 8113-01: Supplemental Requirements for LEEDv4 Indoor Environmental Quality Credits
B. Table 8113-02: Supplemental Requirements for LEEDv4 Material and Resource Credits
C. Supplement 8113-03: LEED v4 Material Cover Sheet
D. Supplement 8113-04: LEEDv4 Checklist

00 0000 “APS Proposal Documents” RFP#20-011 RRR APENDIX C: Change listing threshold to read “Listing Threshold for this Project: $16,600.00.”

00 0000 “APS Proposal Documents” RFP#20-011 RRR APENDIX D: Replace BID PROPOSAL FOR LUMP SUM CONTRACT with BID PROPOSAL FOR LUMP SUM CONTRACT, attached.

00 0000 “APS Proposal Documents” RFP#20-011 RRR APENDIX I: Change qualification threshold for this project to read “Qualification Threshold for this Project: $16,600.00.”

00 0000 “APS Proposal Documents” RFP#20-011 RRR “INDEX TO TECHNICAL SPECIFICATIONS” make the following changes:

01 8113 SUSTAINABLE DESIGN REQUIREMENTS – LEED v4 FOR SCHOOLS add the following:

A. Table 8113-01: Supplemental Requirements for LEEDv4 Indoor Environmental Quality Credits
B. Table 8113-02: Supplemental Requirements for LEEDv4 Material and Resource Credits
C. Supplement 8113-03: LEED v4 Material Cover Sheet
D. Supplement 8113-04: LEEDv4 Checklist

Add the following sections:
07 9100 Preformed Joint Seals
32 1216 Asphalt Concrete Paving

05 5000 “Metal Fabrications”:

A. Delete the 2 sections 05 5000.
B. Replace with section 05 5000 “Metal Fabrications”, attached.

06 4500 “Custom Plastic-Laminate Casework”:

A. Replace paragraph 1.4.D to read as follows:

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D. Certification shall be evidenced through the application of AWI Quality Certification labels and/or the issuance of an AWI letter of certification for the project. QCP Registration #19.1881.

08 8000 "Glazing":

A. Add this section, attached.

10 1100 "Visual Display Units":

A. Add paragraph 2.8.C.4 to read as follows:
   4. Flag Holder: Two for each room.

11 9519 "Pencil Sharpeners"

A. Add paragraph 2.1.C to read as follows:
   C. Provide one pencil sharpener at each classroom.

B. Change paragraph 3.2.B to read as follows:
   B. Mount pencil sharpener on wood mounting block according to manufacturer's written instructions.

B. Add paragraph 3.2.C to read as follows:
   C. Mounting Height: Mount pencil sharpeners at height determined by Owner for each classroom.

CHANGES TO THE DRAWINGS:

Civil Sheets

C101 SITE PAVING PLAN

1. Replace entire sheet C101.

C501 CIVIL DETAILS

1. Replace entire sheet C501.

Structural Sheets

S001 GENERAL STRUCTURAL NOTES

1. Replace Sheet S001 in its entirety.

S101 FOUNDATION PLAN

1. Replace Sheet S101 in its entirety.

S201 FOUNDATION PLAN

1. Replace Sheet S201 in its entirety.

Architectural Sheets

A111 FLOOR PLAN – BUILDING DIMENSIONS

1. Replace Sheet A111 its entirety.

A112 FLOOR PLAN – PORTAL DIMENSIONS AND MARKERS

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1. Replace Sheet A112 its entirety.

A401 CASEWORK SECTIONS AND INTERIOR ELEVATIONS

1. Replace Sheet A401 its entirety.

A402 ENLARGED PLANS AND INTERIOR ELEVATIOS

1. Replace Sheet A402 its entirety.

A403 CASEWORK SECTIONS AND INTERIOR ELEVATIONS

1. Replace Sheet A403 its entirety.

A502 DETAILS

1. Replace Sheet A502 its entirety.

A601 DOOR SCHEDULE, DOOR TYPE, DOOR AND WINDOW FRAMES

1. Replace Sheet A601 its entirety.

I600 ROOM FINISH LEGEND AND ENLARGED PLANS

1. Replace Sheet I600 its entirety.

Mechanical Sheets

SHEET M002

1. ADD: RELIEF HOOD RH-201.
2. Replace Sheet M002 its entirety.

SHEET M101

1. REVISE: Exhaust vent duct from Exhaust Fan EF-203, up thru roof, (was thru wall).
2. REVISE: Exhaust vent duct from Ceiling Exhaust Fan CEF-201, up thru roof, (was thru wall).
3. ADD: CO2 sensor into room: COLLABORATION AREA [231].
4. Replace Sheet M101 its entirety.

SHEET M601

1. REVISE: DETAIL M3: Kiln exhaust vent duct from Kiln mfgr supplied exhaust fan, shall be routed up thru roof, to Contractor provided / installed roof vent cap.
2. REVISE: DO NOT INSTALL Kiln Exhaust Vent Duct thru wall.
3. Replace Sheet M601 its entirety.

Electrical Sheets

SHEET E103

1. Unit CU-201
    a. Relocated unit from outside the north wall of Elec 209 to exterior alcove outside of Tele/Com 210A. Refer to attached sketch SKE103a.

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SHEET E104

1. Keyed Note 16 reference on the plan shall change to Keyed Note 15.

SHEET E504

1. Light Fixture Schedule
    a. Fixture type “F” shall change to Fail-Safe #HVL8-4-LD4-2STD-35-UNV-0-EDC1-S.
    b. Fixture type “X” – delete brushed aluminum face, housing to be plastic and the finish shall change to white.

END OF ADDENDUM 003

BID PROPOSAL FOR LUMP SUM CONTRACT

Date of Proposal: _____

New Mexico State Contractor's License No. _____

License Classifications: _____

Resident Contractor's Preference Certificate No. _____

Veteran Resident Contractor Preference Certificate No. _____
Percent of preference qualified for: _____(10%).
NOTE: Attach a copy of the valid certificate and documentation to validate percent preference.

NM DOL (Workforce Solutions) Certificate No. _____

Contractor's New Mexico Gross Receipts Tax No._____

Contractor's Federal Employee Identification No._____

FD+C Project No. 841

Project Name: Coyote Willow Family School – Phase 2

Proposal of (company name): _____
(Hereinafter called the "Offeror") organized and existing under the laws of the State of New Mexico, doing business as a Corporation, Partnership or Individual. (Circle correct one).

To: Board of Education
Albuquerque Municipal School District Number 12
Bernalillo and Sandoval Counties, New Mexico (hereinafter called "APS") for:

The construction of Coyote Willow Family School – Phase 2

The undersigned, as an authorized representative for the Offeror named above, in compliance with the Request for Proposals for the construction of a Coyote Willow Family School – Phase 2, FD+C Project No. 841, having examined the drawings and specifications, with related documents, and having examined the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project, including the availability of labor, materials and supplies, hereby proposes to furnish all labor, materials and supplies, and to construct the project in accordance with the contract documents at the bids stated below. These bids are to cover all expenses incurred in performing the work required under the contract documents, of which this proposal is a part.

The undersigned Offeror's representative also acknowledges receipt of the following Addenda:

Addendum No: ___, dated _____, Addendum No: ___, dated_____

Addendum No: ___, dated _____, Addendum No: ___, dated_____

The following information is required for state reporting purposes only, and will not be used in evaluating or awarding the contract. Is project material offered grown, produced or wholly manufactured in New Mexico? _____ (Yes/No) (Percentage; reference V-B-5 of the RFP)

BID PROPOSAL FOR LUMP SUM CONTRACT

BASE BID: The Offeror agrees to perform all work for the construction of the Coyote Willow Family School – Phase 2, as described in the Project Manual and as shown on the Drawings for the following Base Bid.

(Amounts to be shown in both words and figures. In case of a discrepancy, the amount shown in words will govern, **please print**.) **All sums will exclude NM Gross Receipts Tax**.

The Work to be performed under this Contract shall be commenced not later than ten (10) consecutive days after the date of written Notice to Proceed, and that Substantial Completion shall be achieved not later than 220 calendar days after the date of written Notice to Proceed, except as hereafter extended by valid written Change Order by the Owner, for Base Bid.

Should the Contractor neglect, refuse, or otherwise fail to complete the Work within the time specified, the Contractor agrees to pay to the Owner in partial consideration for the award of this Contract the amount of One thousand Five hundred Dollars ($1,500.00) per consecutive day, not as a penalty, but as liquidated damages for such breach of the Contract.

The price basis for this RFP is the bid proposed for the Base Bid, subject to the availability of funds. APS may award one or more Bid Lots and/or one or more Alternates at the sole discretion of APS, subject to availability of funds.

BASE BID:

(1) Base Bid:

Total Base Bid Lump Sum: _____

_____Dollars, ($_____)

BID PROPOSAL FOR LUMP SUM CONTRACT

The Offeror understands that the contract will be awarded in accordance with the provisions of the Request for Proposals and that the Owner reserves the right to reject any or all proposals and to waive any technical irregularities.

The Offeror agrees that this bid will be good and may not be withdrawn for a period of forty- five (45) calendar days after the scheduled closing time for receiving bid proposals.

Upon receipt of written notice of acceptance of this Bid, Offeror will execute the final contract and deliver surety bonds as required by the Request for Proposals within seven calendar days.
The PROPOSAL SECURITY attached in the sum of 5% of the amount proposed is: _____

_____

_____Dollars, ($_____)

And will become the property of the Owner in the event the contract and bonds are not executed within the time set forth herein, as liquidated damages for the delay and additional expenses to the Owner caused thereby.

Respectfully Submitted,

By :(Authorized Signature) _____Date: _____

By :(Same Name, Printed or Typed) _____

Title: _____

Company: _____

Address: _____ Phone: _____

_____Zip: _____

Fax: _____ Email: _____

(Affix Corporate Seal if proposal is by Corporation)

SECTION 05 5000

METAL FABRICATIONS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Steel framing and supports for mechanical and electrical equipment.
2. Steel framing and supports for applications where framing and supports are not specified in other Sections.

B. Products furnished, but not installed, under this Section include the following:

1. Anchor bolts and steel pipe sleeves indicated to be cast into concrete.
2. Steel weld plates and angles for casting into concrete for applications where they are not specified in other Sections.

C. Related Requirements:

1. Section 01 7419 “Construction Waste Management and Disposal”.
2. Section 01 8113 “Sustainable Design Requirements – LEED v4 for Schools”.
3. Section 03 3000 "Cast-in-Place Concrete" for installing anchor bolts, steel pipe sleeves, slotted-channel inserts, wedge-type inserts, and other items cast into concrete.
4. Section 05 1200 "Structural Steel Framing."

1.2 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.3 ACTION SUBMITTALS

A. Product Data: For the following:

1. Metal nosings and treads.
2. Grout.

B. Sustainable Design Submittals:

1. Refer to Section 01 8113 “Sustainable Design Requirements – LEED v4 for Schools”.

C. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.

D. Samples for Verification: For each type and finish of extruded nosing.

1.4 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."

1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
2. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."
3. AWS D1.6/D1.6M, "Structural Welding Code - Stainless Steel."

1.5 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 METALS

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

B. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

C. Stainless-Steel Sheet, Strip, and Plate: ASTM A 240/A 240M or ASTM A 666, Type 304.

D. Stainless-Steel Bars and Shapes: ASTM A 276, Type 304.

E. Steel Tubing: ASTM A 500/A 500M, cold-formed steel tubing.

F. Steel Pipe: ASTM A 53/A 53M, Standard Weight (Schedule 40) unless otherwise indicated.

G. Slotted Channel Framing: Cold-formed metal box channels (struts) complying with MFMA-4.

1. Size of Channels: 1-5/8 by 1-5/8 inches.
2. Material: Galvanized steel, ASTM A 653/A 653M,, with G90 coating; 0.108-inch nominal thickness.

3. Material: Cold-rolled steel, ASTM A 1008/A 1008M, commercial steel, Type B; 0.0677-inch minimum thickness; coated with rust-inhibitive, baked-on, acrylic enamel or hot-dip galvanized after fabrication.

H. Aluminum Plate and Sheet: ASTM B 209, Alloy 6061-T6.

I. Aluminum Extrusions: ASTM B 221, Alloy 6063-T6.

J. Aluminum Castings: ASTM B 26/B 26M, Alloy 443.0-F.

2.2 FASTENERS

A. General: Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.

1. Provide stainless-steel fasteners for fastening aluminum.
2. Provide stainless-steel fasteners for fastening stainless steel.

B. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A; with hex nuts, ASTM A 563; and, where indicated, flat washers.

C. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 325, Type 3; with hex nuts, ASTM A 563, Grade C3; and, where indicated, flat washers.

D. Stainless-Steel Bolts and Nuts: Regular hexagon-head annealed stainless-steel bolts, ASTM F 593; with hex nuts, ASTM F 594; and, where indicated, flat washers; Alloy Group 1 (A1).

E. Anchor Bolts: ASTM F 1554, Grade 36, of dimensions indicated; with nuts, ASTM A 563 (ASTM A 563M); and, where indicated, flat washers.

1. Hot-dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.

F. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency.

G. Cast-in-Place Anchors in Concrete: Either threaded type or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A 47/A 47M malleable iron or ASTM A 27/A 27M cast steel. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F 2329.

H. Post-Installed Anchors: chemical anchors.

1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5, unless otherwise indicated.
2. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 1 (A1) stainless-steel bolts, ASTM F 593 (ASTM F 738M), and nuts, ASTM F 594 (ASTM F 836M).

2.3 MISCELLANEOUS MATERIALS

A. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.

1. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.

B. Epoxy Zinc-Rich Primer: Complying with MPI#20 and compatible with topcoat.

C. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.

D. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187/D 1187M.

F. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

G. For adhesives, sealants, paint and coatings applied on site within the vapor barrier, provide Product Data documentation including printed statement of VOC content.

2.4 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

D. Form exposed work with accurate angles and surfaces and straight edges.

E. Weld corners and seams continuously to comply with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.

G. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

2.5 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.

B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.

1. Fabricate units from slotted channel framing where indicated.
2. Furnish inserts for units installed after concrete is placed.

C. Galvanize miscellaneous framing and supports where indicated.

D. Prime miscellaneous framing and supports with zinc-rich primer where indicated.

2.6 MISCELLANEOUS STEEL TRIM

A. Unless otherwise indicated, fabricate units from steel shapes, plates, and bars of profiles shown with continuously welded joints and smooth exposed edges. Miter corners and use concealed field splices where possible.

B. Provide cutouts, fittings, and anchorages as needed to coordinate assembly and installation with other work.

1. Provide with integrally welded steel strap anchors for embedding in concrete or masonry construction.

C. Galvanize exterior miscellaneous steel trim.

D. Prime miscellaneous steel trim with zinc-rich primer.

2.7 STEEL WELD PLATES AND ANGLES

A. Provide steel weld plates and angles not specified in other Sections, for items supported from concrete construction as needed to complete the Work. Provide each unit with no fewer than two integrally welded steel strap anchors for embedding in concrete.

2.8 FINISHES, GENERAL

A. Finish metal fabrications after assembly.

B. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.9 STEEL AND IRON FINISHES

A. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A 153/A 153M for steel and iron hardware and with ASTM A 123/A 123M for other steel and iron products.

1. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.

B. Preparation for Shop Priming Galvanized Items: After galvanizing, thoroughly clean railings of grease, dirt, oil, flux, and other foreign matter, and treat with metallic phosphate process.

C. Shop prime iron and steel items not indicated to be galvanized unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.

1. Shop prime with universal shop primer unless indicated.

D. Preparation for Shop Priming: Prepare surfaces to comply with requirements indicated below:

1. Exterior Items: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
2. Items Indicated to Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
3. Other Items: SSPC-SP 3, "Power Tool Cleaning."

E. Shop Priming: Apply shop primer to comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.

1. Stripe paint corners, crevices, bolts, welds, and sharp edges.

2.10 ALUMINUM FINISHES

A. As-Fabricated Finish: AA-M12.

B. Clear Anodic Finish: AAMA 611, Class I, AA-M12C22A41 where indicated.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

C. Field Welding: Comply with the following requirements:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.

E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

F. Corrosion Protection: Coat concealed surfaces of aluminum that come into contact with grout, concrete, masonry, wood, or dissimilar metals with the following:

1. Cast Aluminum: Heavy coat of bituminous paint.

2. Extruded Aluminum: Two coats of clear lacquer.

3.2 INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.

3.3 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

1. Apply by brush or spray to provide a minimum 2.0-mil (0.05-mm) dry film thickness.

B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780/A 780M.

END OF SECTION 05 5000

SECTION 08 8000

GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Glass for windows and doors.
2. Glazing sealants and accessories.

B. Related Sections:

1. Section 01 8113 Part 1.5 for LEED product submittal requirements.

1.2 DEFINITIONS

A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.

B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.

C. IBC: International Building Code.

D. Interspace: Space between lites of an insulating-glass unit.

1.3 COORDINATION

A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Glass Samples: For each type of the following products; 12 inches square.

1. Insulating glass.

C. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.

1.5 INFORMATIONAL SUBMITTALS

A. Product Certificates: For glass.

B. Product Test Reports: For glass and glazing products, from manufacturer.

1. For glazing sealants, provide test reports based on testing current sealant formulations within previous 36-month period.

C. Preconstruction adhesion and compatibility test report.

D. Sample Warranties: For special warranties.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications for Insulating-Glass Units with Sputter-Coated, Low-E Coatings: A qualified insulating-glass manufacturer who is approved by coated-glass manufacturer.

B. Glass Testing Agency Qualifications: A qualified independent testing agency accredited according to the NFRC CAP 1 Certification Agency Program.

C. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.

1.7 PRECONSTRUCTION TESTING

A. Preconstruction Adhesion and Compatibility Testing: Test each glass product, tape sealant, gasket, glazing accessory, and glass-framing member for adhesion to and compatibility with elastomeric glazing sealants.

1. Testing is not required if data are submitted based on previous testing of current sealant products and glazing materials matching those submitted.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.9 FIELD CONDITIONS

A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.

1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F.

1.10 WARRANTY

A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer's standard form in which coated-glass manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.

1. Warranty Period: 10 years from date of Substantial Completion.

B. Manufacturer's Special Warranty for Laminated Glass: Manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period. Deterioration of laminated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.

1. Warranty Period: 10 years from date of Substantial Completion.

C. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.

1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 LEED RELATED REQUIREMENTS

A. Provide submittals as required by Section 01 8113 Supplemental Table(s):

1. Submittal requirements for LEED v4 Materials and Resources Credits.
2. Submittal requirements for LEED v4 Environmental Quality Credits.

2.2 MANUFACTURERS

A. Source Limitations for Glass: Obtain from single source from single manufacturer for each glass type.

B. Source Limitations for Glazing Accessories: Obtain from single source from single manufacturer for each product and installation method.

2.3 PERFORMANCE REQUIREMENTS

A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.

B. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.

C. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:

1. For monolithic-glass lites, properties are based on units with lites 6 mm thick.
2. For laminated-glass lites, properties are based on products of construction indicated.
3. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
4. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F.
5. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
6. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.4 GLASS PRODUCTS, GENERAL

A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.

1. GANA Publications: "Laminated Glazing Reference Manual" and "Glazing Manual."
2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."

B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.

C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.

D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than the thickness indicated.

1. Minimum Glass Thickness for Exterior Lites: 6 mm.

E. Strength: Where heat-strengthened float glass is indicated, provide fully tempered float glass. Where fully tempered float glass is indicated, provide fully tempered float glass.

2.5 GLASS PRODUCTS

A. Clear Annealed Float Glass: ASTM C 1036, Type I, Class 1 (clear), Quality-Q3.

B. Fully Tempered Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.

1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.

2.6 LAMINATED GLASS

A. Laminated Glass: ASTM C 1172. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.

1. Construction: Laminate glass with polyvinyl butyral interlayer, ionomeric polymer interlayer, or cast-in-place and cured-transparent-resin interlayer to comply with interlayer manufacturer's written instructions.
2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
3. Interlayer Color: Clear unless otherwise indicated.

2.7 INSULATING GLASS

A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.

1. Sealing System: Dual seal, with manufacturer's standard primary and secondary sealants.
2. Spacer: Manufacturer's standard spacer material and construction.

3. Desiccant: Molecular sieve or silica gel, or a blend of both.

2.8 GLAZING SEALANTS

A. General:

1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.

3. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range.

B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 50, Use NT.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Pecora Corporation; 895 or a comparable product by one of the following:

a. BASF Corporation; Construction Systems.
b. Dow Corning Corporation.
c. GE Construction Sealants; Momentive Performance Materials Inc.
d. Pecora Corporation.
e. Sika Corporation.
f. Tremco Incorporated.

2. Glazing Sealants: Sealant shall have a VOC content of 250 g/L or less.

2.9 MISCELLANEOUS GLAZING MATERIALS

A. General: Provide products of material, size, and shape complying with referenced glazing standard, with requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.

B. Glazing Sealants: Sealant shall have a VOC content of 250 g/L or less.

C. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.

D. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.

E. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.

F. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).

G. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.10 FABRICATION OF GLAZING UNITS

A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.

1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.

a. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

B. Grind smooth and polish exposed glass edges and corners.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:

1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
2. Presence and functioning of weep systems.
3. Minimum required face and edge clearances.
4. Effective sealing between joints of glass-framing members.

B. Proceed with installation only after unsatisfactory conditions have been corrected and the following completed:

1. Provide submittals as required by Section 01 8113 Supplemental Table.

a. Submittal Requirements for LEED v4 Environmental Quality Credits.

3.2 PREPARATION

A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.

B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.

3.3 GLAZING, GENERAL

A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.

B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.

C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.

D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.

E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.

F. Provide spacers for glass lites where length plus width is larger than 50 inches.

1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
2. Provide 1/8-inch minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.

G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.

H. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.

I. Set glass lites with proper orientation so that coatings face exterior or interior as specified.

J. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.

K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.

3.4 GASKET GLAZING (DRY)

A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.

C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

E. Install gaskets so they protrude past face of glazing stops.

3.5 SEALANT GLAZING (WET)

A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.

B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.

C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.6 CLEANING AND PROTECTION

A. Immediately after installation remove nonpermanent labels and clean surfaces.

B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.

1. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.

C. Remove and replace glass that is damaged during construction period.

D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

3.7 MONOLITHIC GLASS SCHEDULE

A. Glass Type : Clear annealed, and fully tempered where indicated or where required by officials having jurisdiction, float glass.

1. Minimum Thickness: 6 mm.
2. Safety glazing required.

3.8 LAMINATED GLASS SCHEDULE

A. Glass Type : Clear laminated glass with two plies of annealed, and fully tempered where indicated or where required by officials having jurisdiction, float glass.

1. Minimum Thickness of Each Glass Ply: 3 mm.
2. Interlayer Thickness: 0.030 inch.
3. Safety glazing required.

3.9 INSULATING GLASS SCHEDULE

A. Glass Type : Low-e-coated, clear insulating laminated glass.

1. Overall Unit Thickness: 1 inch.
2. Outdoor Lite: Clear laminated glass with two plies of float glass.
    a. Thickness of Each Glass Ply: 3.0 mm.
    b. Interlayer Thickness: 0.030 inch.
3. Indoor Lite: Clear, fully tempered.
    a. Thickness of Indoor Lite: 6.0 mm.
4. Interspace Content: Air.
5. Low-E Coating: Manufacturer’s low-e coating on third surface.
6. Visible Light Transmittance: 70 percent minimum.
7. Winter Nighttime U-Factor: 0.29 maximum.
8. Summer Daytime U-Factor: 0.28 maximum.
9. Solar Heat Gain Coefficient: 0.38 maximum.
10. Provide safety glazing labeling.
11. Basis of Design Product: Solarban 60 as manufactured by PPG Industries, Inc. or approved equal.

END OF SECTION 08 8000

TOPOGRAPHIC SURVEY

1. FIELD SURVEY PERFORMED ON MAY 2015
2. HORIZONTAL DATUM:
   NEW MEXICO STATE PLANE CENTRAL ZONE.
   NAD 83
   CGGF = 1.0003350235
   SCALED TO GROUND AROUND (0,0)
3. VERTICAL DATUM:
   NAVD 88

LEGAL DESCRIPTION:

TRACT A
LANDS OF NEW MEXICO SCHOOL FOR THE DEAF
FILED: DECEMBER 28, 1994
BOOK: 94C, PAGE 433

PRIMARY BENCHMARK:

CONTROL STATION "NGS, LSS 103" DATA: THE STATION IS LOCATED IN THE NORTHWEST PART OF ALBUQUERQUE, ABOUT 8 MILES (12.9 KM) NORTHWEST OF THE INTERSECTION OF INTERSTATE HIGHWAYS 25 AND 40.

THE STATION IS A 3-3/4 INCH DIAMETER ALUMINUM DISK, STAMPED "NGS, LSS 103, 1993". SET IN A BRIDGE ABUTMENT AT ROAD LEVEL AND FLUSH WITH THE CONCRETE. LOCATED 50.2 FT. WEST OF THE CENTERLINE OF UNSER BVLD, 49.9 FT. SOUTH OF THE CENTERLINE OF THE BRIDGE OVER THE ARROYO DE LAS CALIBACILLAS, 2.00 FT EAST OF THE EAST FACE OF THE WEST CONCRETE TRAFFIC BARRIER AND 0.49 FT. NORTH OF THE SOUTH END OF THE SOUTH BRIDGE ABUTMENT.

NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE),
North=1530978.77'
East=1505524.23'
Elev=5294.87' (NAVD 88)

PAVING PLAN GENERAL NOTES:

A. SEE SHEET CG01 FOR COMPLETE LIST OF GENERAL NOTES AND SYMBOL/LINETYPE LEGEND THAT APPLY TO ALL SHEETS.

B. SURFACE FEATURES ASSOCIATED WITH UNDERGROUND UTILITIES ARE SHOWN ON PAVING PLANS FOR CLARITY. SEE APPLICABLE UTILITY PLANS FOR CONSTRUCTION NOTES AND DETAILS.

C. SEE STRUCTURAL PLANS FOR OVER EXCAVATION/ ENGINEERED FILL LIMITS.

D. SEE SURVEY FOR COMPLETE DESCRIPTION OF ACCESS AND UTILITY EASEMENTS.

E. PLAYGROUND AREA TO BE DESIGNED AND CONSTRUCTED UNDER SEPARATE CONCTRACT.

PAVING PLAN KEYED NOTES:

1. WROUGHT IRON FENCE PER DETAIL E3/C501.
2. PAIR OF 3' WIDE PERSONNEL WROUGHT IRON GATES PER DETAIL C4/C501.
3. PLAYGROUND CONTAINMENT CURB PER APS STANDARD DRAWINGS **AND DETAIL D4/C501.**
4. LEAVE 6'-8" WIDE OPENING IN CURB FOR FUTURE ACCESS RAMP TO BE INSTALLED BY PLAYGROUND INSTALLER.
5. TAPER CONTAINMENT CURB DOWN 6" OVER 2' LENGTH SO TOP OF CURB MEETS SIDEWALK AT ACCESS RAMP.
6. PLAYGROUND AREA. PLAN SHOWN IS CONCEPTUAL ONLY, SEE GENERAL NOTE E. CONTRACTOR TO COORDINATE FINAL LAYOUT WITH LANDSCAPING CONTRACTOR AND PLAY GROUND INSTALLER.
7. SIDEWALK EDGE CURB PER DETAILB4/C501 AND DETAIL A5/C501.
8. CONCRETE SIDEWALK PER DETAIL A5/C501.
9. LANDSCAPING AREA. SEE LANDSCAPING PLANS. LEAVE GRADES DOWN 4" FROM FINISHED GRADES SHOWN ON GRADING PLANS.
10. 8' WIDE ASPHALT MULTI USE TRAIL. 3" THICK SP-III OVER 4" AGGREGATE BASE COURSE OVER PREPARED SUBGRADE.
11. PAIR 6' WIDE WROUGHT IRON GATES TO MATCH FENCE PER DETAIL C3/C501.
12. RECESS IN SIDEWALK FOR WALK OFF MATT. SEE ARCHITECTURAL FOR DETAILS.
13. CONCRETE STOOP. PER DETAIL A2/C501.
14. PROPOSED BUILDING. SEE ARCHITECTURAL PLANS.
15. KNOW BOX, TO MATCH OTHER BOXES ON SITE.
16. 7" THICK CONCRETE PAVEMENT PER DETAIL A4/C501.
17. FUTURE PLANTER BOXES (NOT IN CONTRACT).
18. REMOVE AND REPLACE SIDEWALK TO ALLOW FOR NEW SIDEWALK WITH WALK OFF MATT.
19. BIKE RACK AND CONCRETE PAD TO MATCH EXISTING.
20. 40' FLAG POLE PER DETAIL B2/C501.

LIMITS OF WORK IN THIS PHASE

SYNTHETIC TURF FIELD 220'X120'

DROP OFF/ PICK UP

B.F.P.

FUEL EFFICIENT | FUEL EFFICIENT | FUEL EFFICIENT | CAR POOL | CAR POOL | CAR POOL | CAR POOL

11+50 12+00 12+50 13+00 13+50 14+00 14+50 15+00 15+50 16+00 16+50 17+00 17+50 18+00 18+50 19+00 19+50

S89° 46' 54.46"E
735.745

N0° 13' 22.25"E
868.063

I R V I N G B O U L E V A R D N W

B O W

A1 SITE PAVING PLAN
SCALE: 1" = 30'-0"

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

THE HARTMAN + MAJEWSKI
DESIGN GROUP
ARCHITECTS · ENGINEERS · INTERIOR DESIGN
PLANNERS · URBAN DESIGNERS · LEED ®

120 VASSAR DRIVE SE SUITE 100
ALBUQUERQUE, NEW MEXICO 87106
PHONE : 505.242.6880 FAX : 505.242.6881

CONSULTANT

STAMP

DAVID A. ALBER — STATE OF NEW MEXICO — 14221 — REGISTERED PROFESSIONAL ENGINEER
9-10-19

PROJECT NAME

COYOTE WILLOW FAMILY SCHOOL - PHASE 2

7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

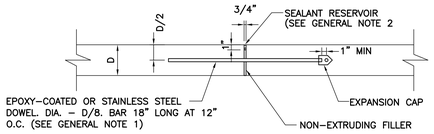
REVISIONS

NO.	DATE	DESCRIPTION
1	8.30.19	ADDENDUM 002
2	9.10.19	ADDENDUM 003

DESIGNER:	DAA
CHECKED:	DAA
DATE:	08.16.2019
SCALE:	1" = 30'-0"
JOB NO.:	3050
CAD FILE:	3042_C101

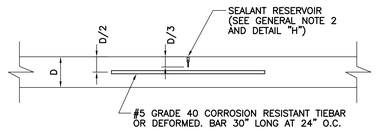
SHEET TITLE:
SITE PAVING PLAN

SHEET NUMBER:
C101



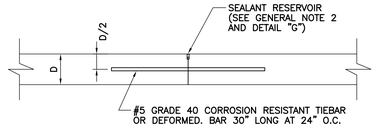
JOINT TYPE "A"

TRANSVERSE DOWELLED EXPANSION JOINT (USE ONLY WHEN BUTTING AGAINST EXISTING CONCRETE PAVEMENT)



JOINT TYPE "B"

SAWED LONGITUDINAL JOINT WITH TIEBARS

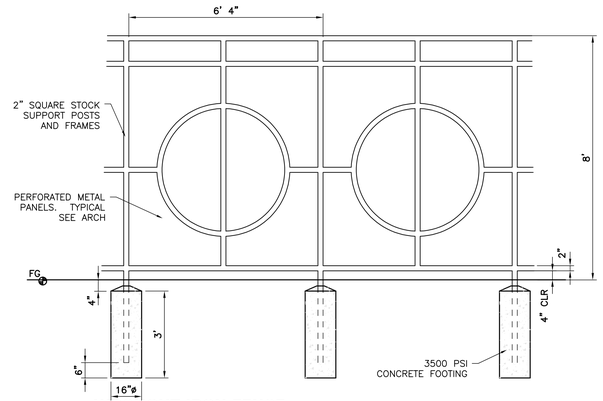


JOINT TYPE "B-1"

LONGITUDINAL CONSTRUCTION JOINT WITH TIEBARS

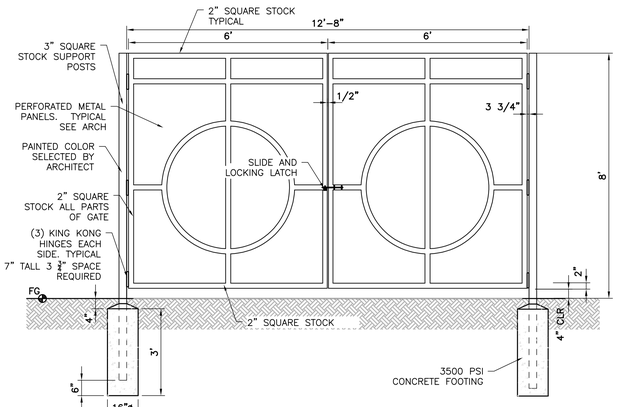
D1 EXPANSION JOINT

SCALE: NOT TO SCALE



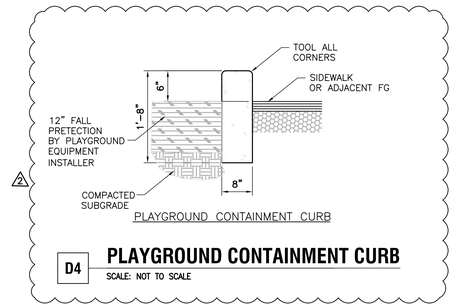
E3 WROUGHT IRON FENCE

SCALE: NOT TO SCALE



C3 WROUGHT IRON VEHICLE GATES

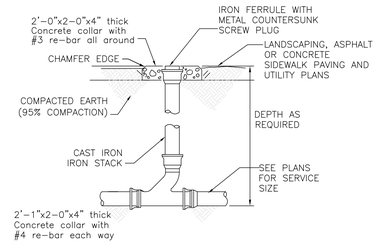
SCALE: NOT TO SCALE



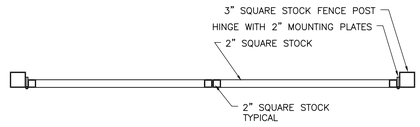
PLAYGROUND CONTAINMENT CURB

D4 PLAYGROUND CONTAINMENT CURB

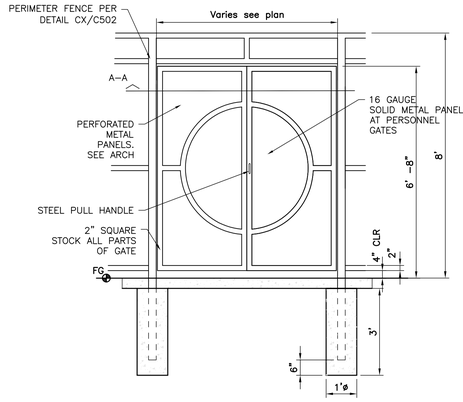
SCALE: NOT TO SCALE



SINGLE CLEANOUT



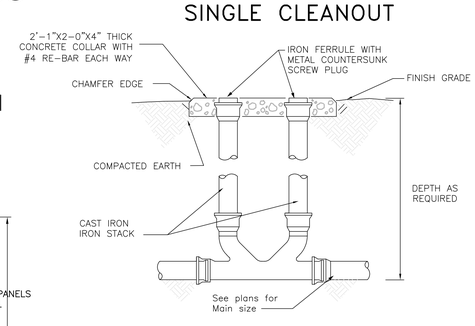
SECTION A-A



NOTES:
1. INSTALL EXIT DEVICE ON 4' TALL 3"x3" SQUARE STOCK (FOUNDATION AND APPEARANCE TO MATCH FENCE) PLACED 5' FROM FENCE ON THE INSIDE OF PROPERTY.
2. GATES TO HAVE PANIC HARDWARE. SEE DOOR SCHEDULE.

C4 WROUGHT IRON PERSONNEL GATES

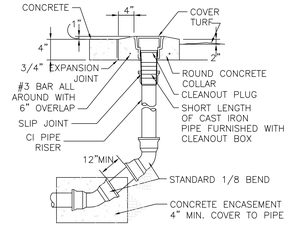
SCALE: NOT TO SCALE



DOUBLE CLEAN OUT

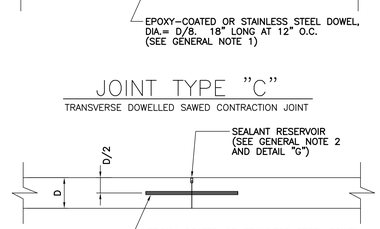
E6 SANITARY SEWER CLEANOUTS

SCALE: NOT TO SCALE



C6 SAS TERMINAL CLEANOUT

SCALE: NOT TO SCALE

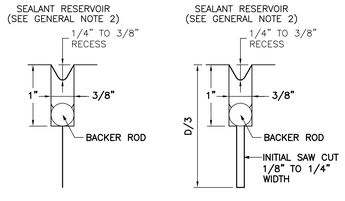


JOINT TYPE "C"

TRANSVERSE DOWELLED SAWED CONTRACTION JOINT

JOINT TYPE "D"

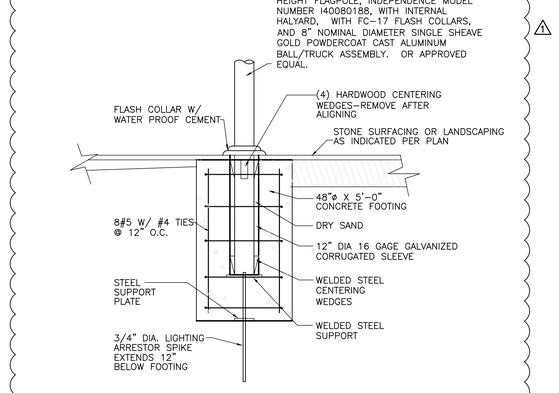
TRANSVERSE DOWELLED CONSTRUCTION JOINT



A1 CONSTRUCTION JOINT

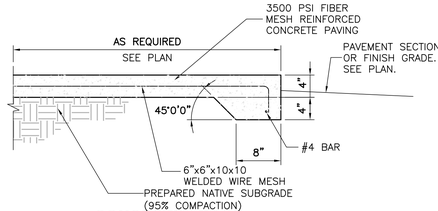
SCALE: NOT TO SCALE

1. Minimum dowel diameter shall be d/8 inch, where d is the thickness of the concrete pavement. The diameter should not be less than No. 10.
2. Sealant reservoir. Joint shape factor, backer rod and non-extruding filler if required shall be recommended by the manufacturer of the joint filler used. When using silicone sealants, a minimum shape factor (ratio of sealant depth to width of 1:2 is recommended. The maximum shape factor shall not exceed 1:1. The minimum width of sealant shall be 3/8 inch. The surface of the sealant shall be recessed 1/4 to 3/8 inch below the pavement surface. Back rod shall be a closed-cell polyurethane foam rod having a diameter approximately 25% greater than the width of the joint. The non-extruding filler material is usually a non- absorbent, non-reactive, non-extruding material. Typically made from either a closed-cell foam or a bitumer-treated fiber board.



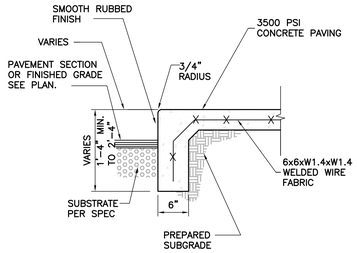
B2 40' FLAG POLE DETAIL

SCALE: NOT TO SCALE



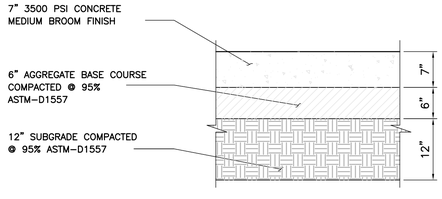
A2 CONCRETE STOOP

SCALE: NOT TO SCALE



B4 SIDEWALK EDGE CURB

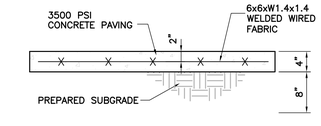
SCALE: NOT TO SCALE

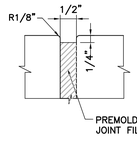


A4 CONCRETE PAVEMENT

SCALE: NOT TO SCALE

Note: Construct construction and expansion joints per detail A1/C501 and D1/C501.

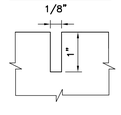




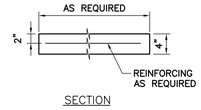
NOTE:
Provide transverse contraction joints at intervals not exceeding 6'-0" on center. provide centerline contraction joints in sidewalks wider than 8'-0", spacing of centerline contraction joints shall not exceed 6'-0".

Provide expansion joints at intervals not exceeding 30'-0" on center.

EXPANSION JOINT



CONTRACTION JOINT



SECTION

A5 TYP SIDEWALK JOINT DETAILS

SCALE: NOT TO SCALE

THE HARTMAN + MAJEWSKI DESIGN GROUP
ARCHITECTS · ENGINEERS · INTERIOR DESIGN
PLANNERS · URBAN DESIGNERS · LEED ®
120 VASSAR DRIVE SE SUITE 100
ALBUQUERQUE, NEW MEXICO 87106
PHONE: 505.242.6880 FAX: 505.242.6881

CONSULTANT

STAMP

DAVID A. AUSTIN NEW MEXICO 14221 REGISTERED PROFESSIONAL ENGINEER
9-10-19

PROJECT NAME

COYOTE WILLOW FAMILY SCHOOL - PHASE 2

7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

REVISIONS

NO.	DATE	DESCRIPTION
1	8.30.19	ADDENDUM 002
2	9.10.19	ADDENDUM 003

DESIGNER:	DAA
CHECKED:	DAA
DATE:	08.16.2019
SCALE:	VARIES
JOB NO.:	3050
CAD FILE:	3042-C501

SHEET TITLE:

CIVIL DETAILS

SHEET NUMBER:

C501

GENERAL STRUCTURAL NOTES

1. CODES AND MANUALS:
   INTERNATIONAL BUILDING CODE, 2015 EDITION
   AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION
   AISI COLD FORMED STEEL MANUAL, CURRENT EDITION
   ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI-318
   AWS D1.1 AND D1.3
   A. VERTICAL:
      LIVE LOAD
      ROOF 20 PSF (l_R=1.)
      * LOAD HAS NOT BEEN REDUCED
   B. HORIZONTAL LOADS:
      (1) WIND*
      SIMPLIFIED PROCEDURE PER SECTION 1609.6
      P = WIND PRESSURE x C Iw

WIND SPEED	V3s=115 MPH
WIND PRESSURE : END ZONE	21.0 PSF
INTERIOR ZONE	13.9 PSF
HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT	C=1.40
IMPORTANCE FACTOR	Iw = 1.15
HORIZONTAL WIND LOAD: END ZONE	25.41 PSF
INTERIOR ZONE	16.82 PSF

      (2) SEISMIC* V = Sds W / (R/Ie)

SPECTRAL ACCELERATIONS	Ss=0.475 S1=0.143
SITE CLASS	C
IMPORTANCE FACTOR	Ie = 1.25
DESIGN SPECTRAL RESPONSE	Sds = 0.380
ONE SECOND PERIOD RESPONSE ACCEL.	Sd1 = 0.158
RESPONSE MODIFICATION COEFFICIENT	R = 4
SEISMIC FORCE	V = 0.067 x W
SEISMIC DESIGN CATEGORY = C	

      * ALLOWABLE 1/3 STRESS INCREASE FOR WIND OR SEISMIC LOADING
   C. ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF

3. GENERAL:
   A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
   B. SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.
   C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
   D. TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.
   E. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE INDIVIDUAL TRADES.
   F. NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.
   G. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATIONS UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CONCRETE PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON STRUCTURAL DRAWINGS.
   H. REMOVAL OF FORMS AND SHORING SHALL BE IN ACCORDANCE WITH ACI 347.

4. MATERIALS:
   A. CAST-IN-PLACE CONCRETE:
      (1) ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-96.
      (2) ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A ¾" CHAMFER UNLESS NOTED OTHERWISE.
      (3) NORMAL WEIGHT CONCRETE:
         A. F'C = 4000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL EXPOSED EXTERIOR CONCRETE FLAT WORK. (I.E. SLABS, EQUIPMENT PADS, ETC.).
         B. F'C = 3000 PSI @ 28 DAYS (AIR ENTRAINED) - ALL INTERIOR CONCRETE
      2 THE FOOTINGS, PEDESTALS, ETC.
         C. F'C = 4000 PSI @ 28 DAYS - ALL INTERIOR SLABS.
      (4) THE CONTRACTOR SHALL NOT CAST CONCRETE AGAINST GRADE BEAMS OR RETAINING WALLS AGAINST EXCAVATED VERTICAL SIDE SURFACES.
   B. REINFORCING STEEL:
      (1) ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-99) AND THE STANDARD MANUAL (ACI 315-92).
      (2) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 EXCEPT STIRRUPS, TIES AND FIELD-BENT BARS WHICH SHALL CONFORM TO ASTM A615 GRADE 40.
      (3) ALL SLABS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS.
      (4) WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
         A. VERTICAL REINFORCING: 30 BAR DIA. OR 18" MINIMUM
         B. HORIZONTAL REINFORCING: 30 BAR DIA. OR 18" MINIMUM
      (5) ALL HORIZONTAL REINFORCING IN FOOTINGS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS OR 18 INCHES.
      (6) CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
         A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH. . . 3"
         B. CONCRETE EXPOSED TO EARTH OR WEATHER:
            1. BARS LARGER THAN NO. 5. . . . . 2"
            2. BARS NO. 5 OR SMALLER. . . . . 1½"
      (7) FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL.
      (8) BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315-92. CHAIRS WITH 22 GA. SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE. REINFORCING SHALL BE SECURELY TIED TO SUPPORTS.
      (9) REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.
   C. STRUCTURAL AND MISCELLANEOUS STEEL:
      (1) ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
      (2) ALL STRUCTURAL AND MISCELLANEOUS STEEL MEMBERS, SHAPES AND CONNECTIONS SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
      (3) ALL COLD FORMED STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. FY=46 KSI
      (4) BOLTS SHALL CONFORM TO ASTM A325 TENSION CONTROL BOLTS UNLESS NOTED OTHERWISE, WITH SIZES AS SHOWN ON THE DRAWINGS.
      (5) ALL BOLTS SHALL BE TIGHTENED SO AS TO SHEAR THE SPLINE OFF THE BOLT.
      (6) ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A307 BOLTS OR A36 THREADED BARS. PROVIDE FLAT WASHERS BETWEEN ALL NUTS AND BASEPLATES.
      (7) ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS STRUCTURAL WELDING CODE.
      (8) ALL BOLT HOLES THAT ARE REQUIRED TO BE FIELD DRILLED SHALL BE DRILLED WITH A MAG DRILL. FLAME CUTTING OF HOLES OR ENLARGING OF UNFAIR HOLES WILL NOT BE ALLOWED.
      (9) HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS SHALL BE TYPE B, IN CONFORMANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE-STEEL". STRUCTURAL STEEL TO RECEIVE SHEAR CONNECTIONS SHALL BE FREE OF PAINT. WELDING PRE QUALIFICATION REQUIRED.
   D. LIGHTGAGE STRUCTURAL STEEL FRAMING (20 GAGE OR HEAVIER):
      (1) ALL LIGHTGAGE METAL FRAMING SHALL CONFORM TO AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 2007.
      (2) WALLS TO BE PROVIDED WITH MANUFACTURER'S STANDARD BRIDGING: (EITHER WELDED 2½" X 18 GA. STUD OR CLIPPED COLD-ROLLED CHANNEL 1½" X 16 GA.). PROVIDE BRIDGING AT 4'-0" O.C. MAXIMUM.
      (3) PROVIDE ALL MISCELLANEOUS ACCESSORIES AND FOLLOW ERECTION PROCEDURES AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
      (4) LIGHTGAGE STEEL FRAMING SHALL MEET THE MINIMUM PROPERTIES AS SHOWN IN THE STEEL STUD SCHEDULE.
      (5) ALL TRACK SHALL BE DEEP LEG (1½" FLANGE), 18 GA. MINIMUM. TRACK SHALL BE ANCHORED TO SLAB WITH ½" DIA. X 3½" EMBED EXPANSION SLEEVE OR EPOXY ANCHORS AT 4'-0" O.C. UNLESS SHOWN OTHERWISE ON PLANS.
   E. WOOD FRAMING:
      (1) ALL SAWN LUMBER EXCEPT STUDS SHALL BE HEM FIR NO. 2 OR BETTER WITH THE FOLLOWING ALLOWABLE STRESSES:

MAXIMUM FIBER STRESS IN BENDING (REP.):	FB = 980 PSI
TENSION PARALLEL TO GRAIN:	FT = 500 PSI
COMPRESSION PARALLEL TO GRAIN:	FC = 1250 PSI
COMPRESSION PERPENDICULAR TO GRAIN:	FC = 405 PSI
HORIZONTAL SHEAR:	FV = 75 PSI
MODULUS OF ELASTICITY:	E = 1,300,000 PSI

      (2) SAWN LUMBER USED FOR STUDS SHALL BE SPRUCE PINE FIR #2 OR BETTER WITH THE FOLLOWING ALLOWABLE STRESSES:

MAXIMUM FIBER STRESS IN BENDING (REP.):	FB = 775 PSI
TENSION PARALLEL TO GRAIN:	FT = 325 PSI
COMPRESSION PARALLEL TO GRAIN:	FC = 675 PSI
COMPRESSION PERPENDICULAR TO GRAIN:	FC = 425 PSI
HORIZONTAL SHEAR:	FV = 70 PSI
MODULUS OF ELASTICITY:	E = 1,200,000 PSI

      (3) PRE MANUFACTURED BEAMS, LINTELS & COLUMNS SHALL BE EITHER PARALLAM (PSL) OR MICROLLAM (ML) AS INDICATED ON THE PLAN AND WITH THE FOLLOWING ALLOWABLE STRESSES:
         A. PARALLAM:

MAXIMUM FLEXURAL STRESS:	FB = 2900 PSI
COMPRESSION PARALLEL TO GRAIN:	FC = 2900 PSI
COMPRESSION PERPENDICULAR TO GRAIN:	FC = 650 PSI
HORIZONTAL SHEAR:	FV = 290 PSI
MODULUS OF ELASTICITY:	E = 2,000,000 PSI

         B. MICROLLAM

MAXIMUM FLEXURAL STRESS:	FB = 2600 PSI
COMPRESSION PARALLEL TO GRAIN:	FC = 2310 PSI
COMPRESSION PERPENDICULAR TO GRAIN:	FC = 750 PSI
HORIZONTAL SHEAR:	FV = 285 PSI
MODULUS OF ELASTICITY:	E = 1,900,000 PSI

      (4) PRE-ENGINEERED WOOD TRUSSES:
         A. TRUSSES SHALL BE DESIGNED AND FABRICATED WITH WOOD CHORDS AND WOOD WEBS IN ACCORDANCE WITH DESIGNS PREPARED BY A REGISTERED PROFESSIONAL ENGINEER.
         B. DESIGN STANDARDS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND THE DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES.
         C. ALL TRUSSES SHALL BE SECURELY BRACED BOTH DURING ERECTION AND AFTER PERMANENT INSTALLATION.
      (5) APA SPAN RATED SHEATHING:
         A. PLYWOOD OR OSB ROOF AND WALL SHEATHING SHALL BE GRADE STRUCTURAL 1 AND MANUFACTURED WITH EXTERIOR GLUE.
         B. SEE PLAN FOR NAILING PATTERN AND THICKNESS OF SHEATHING.
         C. STAGGER JOINTS OF SHEATHING @ ROOF DECK.
      (6) CONNECTIONS:
         A. NAILING SHALL BE IN ACCORDANCE WITH THE IBC NAILING SCHEDULE, TABLE 2304.9.1 UNLESS OTHERWISE NOTED. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
         B. JOIST HANGERS SHALL BE BY SIMPSON CO. OR EQUAL WITH CONNECTIONS INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
         C. BOLTS SHALL BE ASTM A307 UNO ON PLANS.
         D. STEEL SIDE PLATES SHALL BE ASTM A36.
   5. PER IBC SECTION 1704, SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING ITEMS:
      A. CONCRETE:
         (1) DURING THE TAKING ON TEST SPECIMANS.
         (2) DURING THE PLACEMENT OF ALL REINFORCED CONCRETE.
      B. BOLTS IN CONCRETE:
         (1) DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.
      C. REINFORCING STEEL (PERIODIC):
         (1) DURING THE PLACEMENT OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION NOTED ABOVE.
      D. WELDING:
         (1) VISUAL INSPECTION OF ALL FIELD WELDS.
         (2) NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS.
      E. HIGH STRENGTH BOLTING:
         (1) VERIFICATION OF SNUG TIGHT BOLT INSTALLATION FOR A325N BOLTS.
         (2) VERIFICATION OF SLIP CRITICAL (SC) BOLTS AT ALL BRACED FRAMES.
      F. EXPANSION AND EPOXY BOLTS:
         (1) DURING THE PLACEMENT OF ALL EXPANSION AND EPOXY BOLTS, FOR VISUAL VERIFICATION OF HOLE DIAMETER AND DEPTH AND PLACEMENT OF BOLT AND/OR EPOXY.
      G. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
         (1) THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
         (2) THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OF RECORD.
      H. SPECIAL INSPECTOR IS TO BE HIRED BY OWNER, NOT CONTRACTOR.

GENERAL FOUNDATION NOTES

1. GENERAL
   A. A SUBSURFACE SOIL INVESTIGATION HAS BEEN MADE BY GEO-TEST INC. A REPORT OF THAT INVESTIGATION DATED NOVEMBER 23, 2015 IS AVAILABLE FOR VIEWING AT THE OFFICE OF THE ARCHITECT.
   B. ADDITIONAL INFORMATION CONCERNING SPECIFIC SOIL CONDITIONS TO BE ENCOUNTERED IS AVAILABLE IN THE SOILS REPORT AND SHOULD BE REVIEWED.

2. FIELD OBSERVATION AND TESTS:
   A. THE CONTRACTOR WILL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK. GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING INITIAL EXCAVATION, PLACEMENT AND COMPACTION OF STRUCTURAL FILL, AND FOUNDATION EXCAVATIONS. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS REQUIRING OBSERVATION.
   B. TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING MINIMUM RATES:
      1. ONE FIELD DENSITY TEST PER EACH 5000 SQUARE FEET OF NATURAL GROUND PRIOR TO PLACING STRUCTURAL FILL WITH A MINIMUM OF 3 TESTS.
      2. ONE FIELD DENSITY TEST PER EACH 150 CUBIC YARDS OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
      3. ONE FIELD DENSITY TEST AT THE LOCATION OF EACH FOUNDATION STRUCTURAL ELEMENT IMMEDIATELY PRIOR TO CONCRETE PLACEMENT OR PLACEMENT OF REINFORCING.
      4. ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.
   C. THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.

3. CLEARING AND GRUBBING:
   A. REMOVE ALL BRUSH, RUBBISH, GRASS, AND GRASS ROOTS TO A DEPTH OF SIX INCHES FROM THE CONSTRUCTION AREA FOR A DISTANCE OF FIVE FEET OUTSIDE BUILDING LINES.
   B. REMOVE STUMPS, MATTED ROOTS AND ROOTS LARGER THAN 2 INCHES IN DIAMETER WITHIN 12 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/OR FOOTINGS ARE TO BE CONSTRUCTED.
   C. REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL, BUT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.

4. SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:
   A. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL OR SOFT AREAS.
   B. OVEREXCAVATE THE ENTIRE BUILDING AREA TO PROVIDE FOUNDATION BEARING ON A MINIMUM OF 1'-0" OF STRUCTURAL FILL.
   C. STRUCTURAL FILL PLACEMENT SHALL EXTEND LATERALLY BEYOND THE EDGE OF PERIMETER FOOTINGS A MINIMUM OF TWO (2) FEET.
   D. EXISTING ON-SITE SOILS MAY BE ACCEPTABLE AS STRUCTURAL FILL MATERIAL, HOWEVER, THESE SOILS MAY ALSO NEED TO BE BLENDED WITH IMPORTED MATERIAL TO MEET THE BELOW DESCRIBED GRADATION AND PLASTICITY INDEX REQUIREMENTS. APPROPRIATE TESTING IS REQUIRED TO VERIFY ACCEPTABILITY OF ON-SITE SOILS.
   E. PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN EIGHT (8) INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (+/- 2%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.

5. STRUCTURAL FILL REQUIREMENTS:
   A. GRADATION (ASTM C136):

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3"	100
NO. 4	60-100
NO. 200	15-45

   B. MAXIMUM PLASTICITY INDEX NOT TO EXCEED 6.
   C. MATERIAL LARGER THAN 3 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL.
   D. NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.

6. COMPACTION REQUIREMENTS:
   A. SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D 1557 MAXIMUM DRY DENSITY AT +/- 2% OPTIMUM MOISTURE CONTENT.

MATERIAL	MINIMUM PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90

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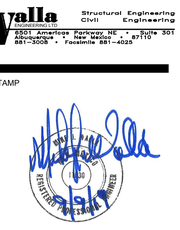
STAMP



PROJECT NAME

COYOTE WILLOW
FAMILY SCHOOL- PHASE 2
7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

REVISIONS

NO.	DATE	DESCRIPTION
1	8/29/19	ADDENDUM #2
2	9/9/19	ADDENDUM #3

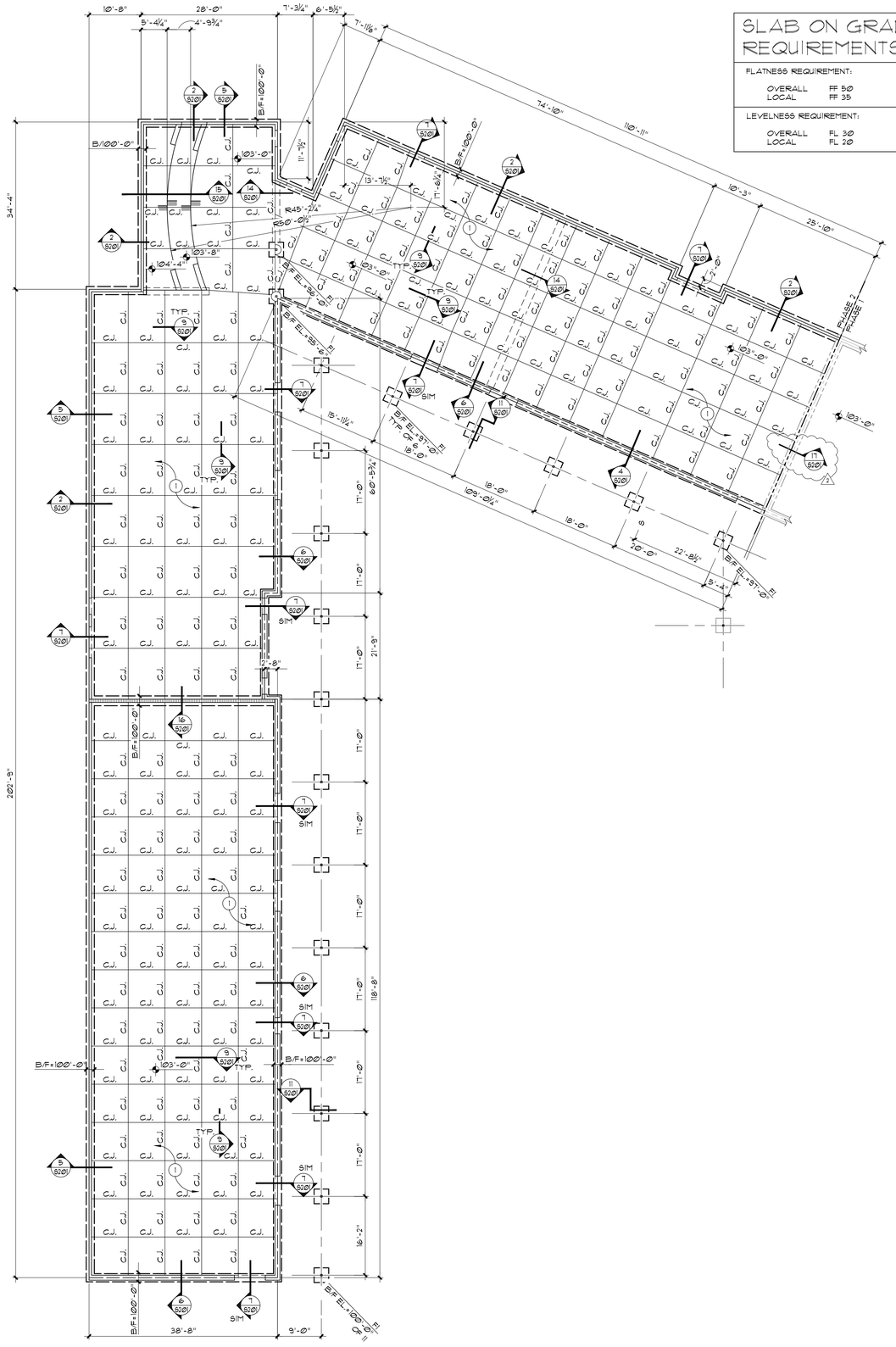
DESIGNER:	DLR
CHECKED:	MJW
DATE:	9.9.2019
SCALE:	
JOB NO.:	3050
CAD FILE:	

SHEET TITLE:

GENERAL STRUCTURAL NOTES

SHEET NUMBER:

S001



FOUNDATION PLAN

3/32"=1'-0"

SLAB ON GRADE REQUIREMENTS

FLATNESS REQUIREMENT:	
OVERALL	FF 50
LOCAL	FF 35
LEVELNESS REQUIREMENT:	
OVERALL	FL 30
LOCAL	FL 20

GENERAL NOTES

A DIMENSIONS ARE TO EDGE OF CONCRETE STEM WALL OR FACE OF MASONRY (SEE 14/S-201 FOR ONE EXCEPTION) UNLESS NOTED OTHERWISE.

B C.J. INDICATES CONTROL JOINTS IN THE CONCRETE SLAB, SEE SECTION 5/S201.

C S B/F EL.=96'-0" / B/F EL.=98'-0" — S INDICATES STEP IN CONCRETE FOOTING. SEE 12/S201 FOR TYPICAL DETAIL.

D M.C.J. INDICATES MASONRY CONTROL JOINT. SEE 4/S202 FOR TYPICAL DETAIL.

KEYED NOTES

1. 4" CONCRETE SLAB REINFORCED WITH 6x6-W2.9xW2.9 WWF, OVER COMPACTED SUBGRADE. FIN. FLR.= SEE PLAN= M.S.L.E. - SEE CIVIL.
2. LOCATION OF CHANGE IN FOUNDATION DETAIL.
3. 2-#4x4'-0" LONG CENTERED IN SLAB.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F1	3'-0" SQ. x 1'-0" DP.	4-#4 E.W.
F2	4'-0" SQ. x 1'-0" DP.	5-#5 E.W.

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PROJECT NAME

COYOTE WILLOW FAMILY SCHOOL- PHASE 2

7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

REVISIONS

NO.	DATE	DESCRIPTION
1	8/29/19	ADDENDUM #2
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DESIGNER:	DLR
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DATE:	9.9.2019
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SHEET TITLE:

FOUNDATION PLAN

SHEET NUMBER:

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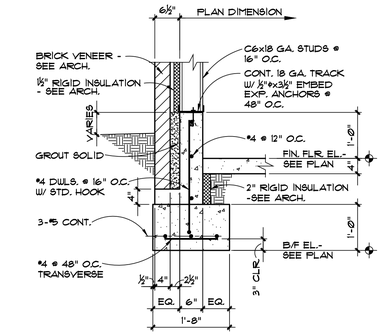
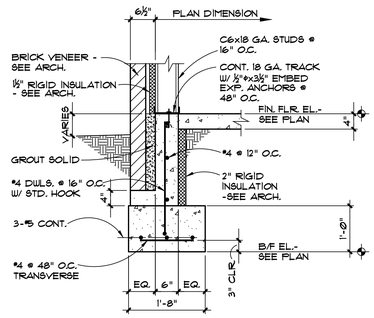


1 S201 3/4"=1'-Ø"



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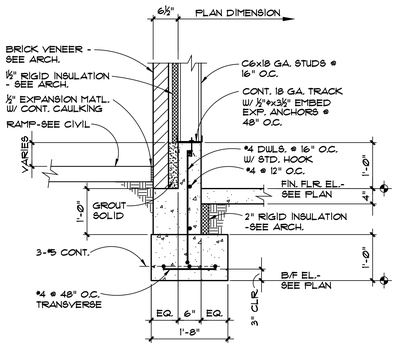
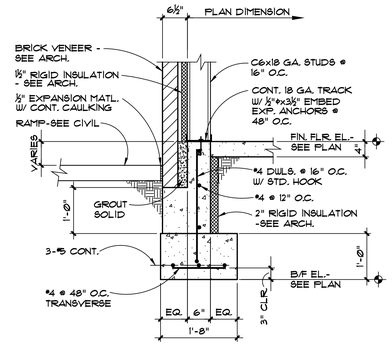


3 S201 3/4"=1'-Ø"



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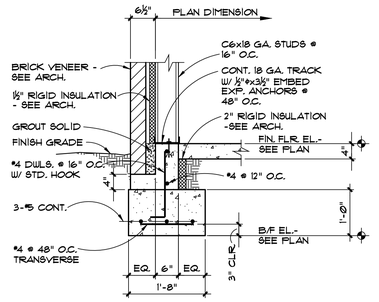
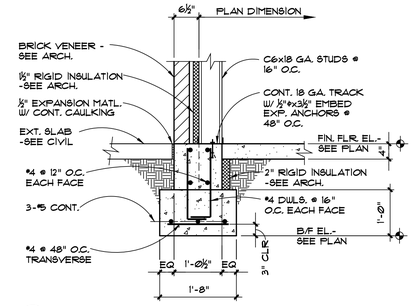


5 S201 3/4"=1'-Ø"



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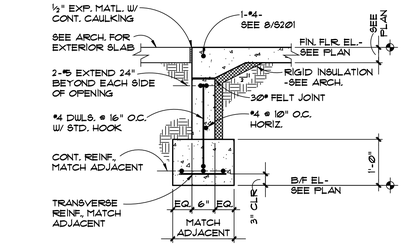
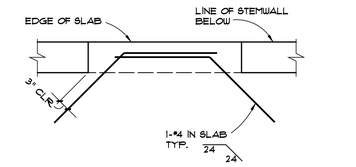
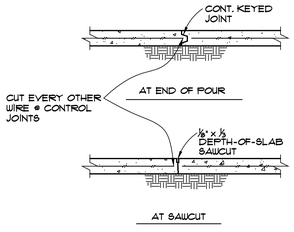


7 S201 3/4"=1'-Ø"

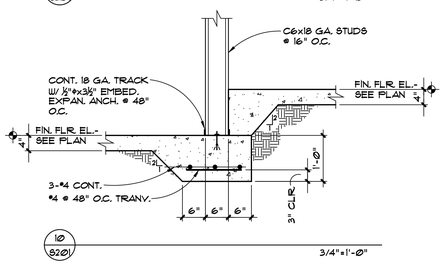


8 S201 TYP SLAB REINFORCING @ DOORS/OPNGS. N.T.S.

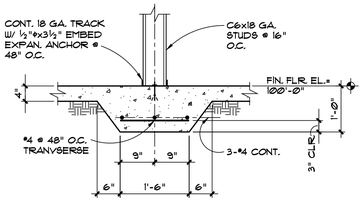
NOTE: AT CONTRACTOR'S OPTION A PLASTIC JOINT FORMER MAY BE INSTALLED INSTEAD OF THE SAWCUT.



9 S201 TYPICAL CONTROL JOINT (C.J.) 3/4"=1'-Ø"

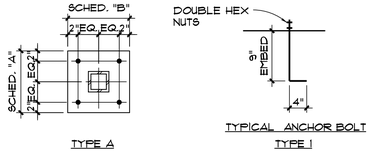


10 S201 3/4"=1'-Ø"



14 S201 3/4"=1'-Ø"

BASE PLATE SCHEDULE				
MARK	TYPE	SIZE "T"x"A"x"B"	A307 ANCHOR BOLTS	ANCHOR BOLT TYPE
1	A	⅜"x12"x12"-Ø"	4-¾"Øx9"	1



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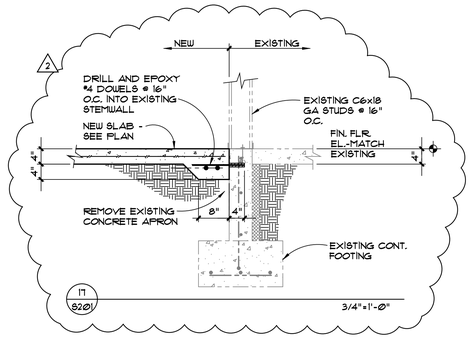
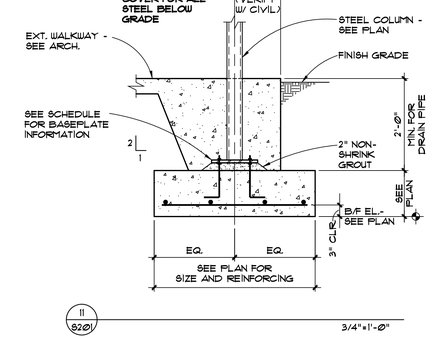
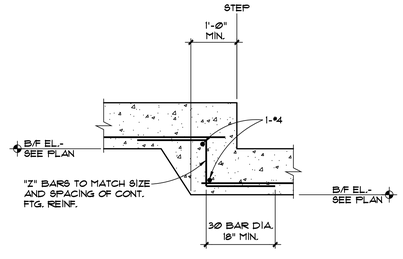


17 S201 3/4"=1'-Ø"

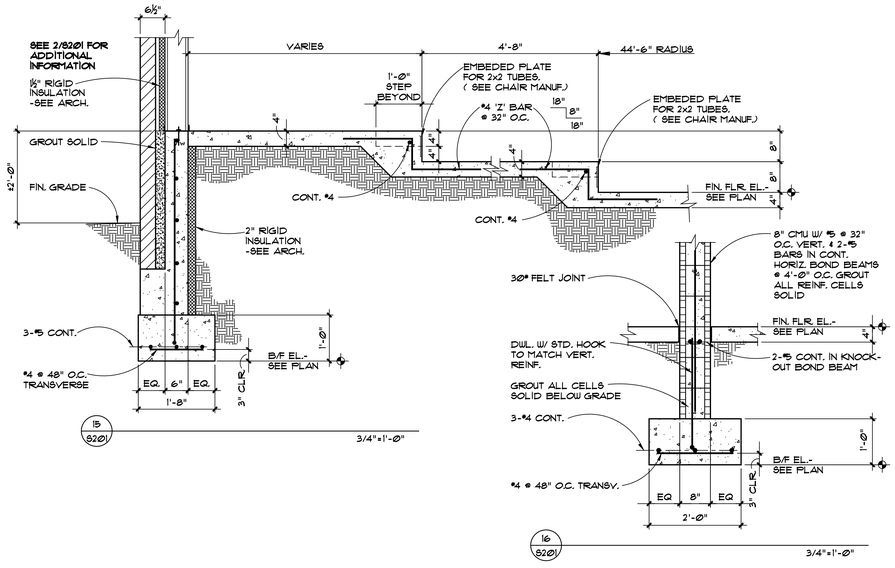
NOTE: 3" MIN. CONC. COVER FOR ALL STEEL BELOW GRADE



11 S201 3/4"=1'-Ø"



12 S201 TYPICAL STEPPED FOOTING 3/4"=1'-Ø"



15 S201 3/4"=1'-Ø"

16 S201 3/4"=1'-Ø"

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PROJECT NAME

COYOTE WILLOW FAMILY SCHOOL- PHASE 2

7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

REVISIONS

NO.	DATE	DESCRIPTION
1	8/29/19	ADDENDUM #2
2	9/9/19	ADDENDUM #3

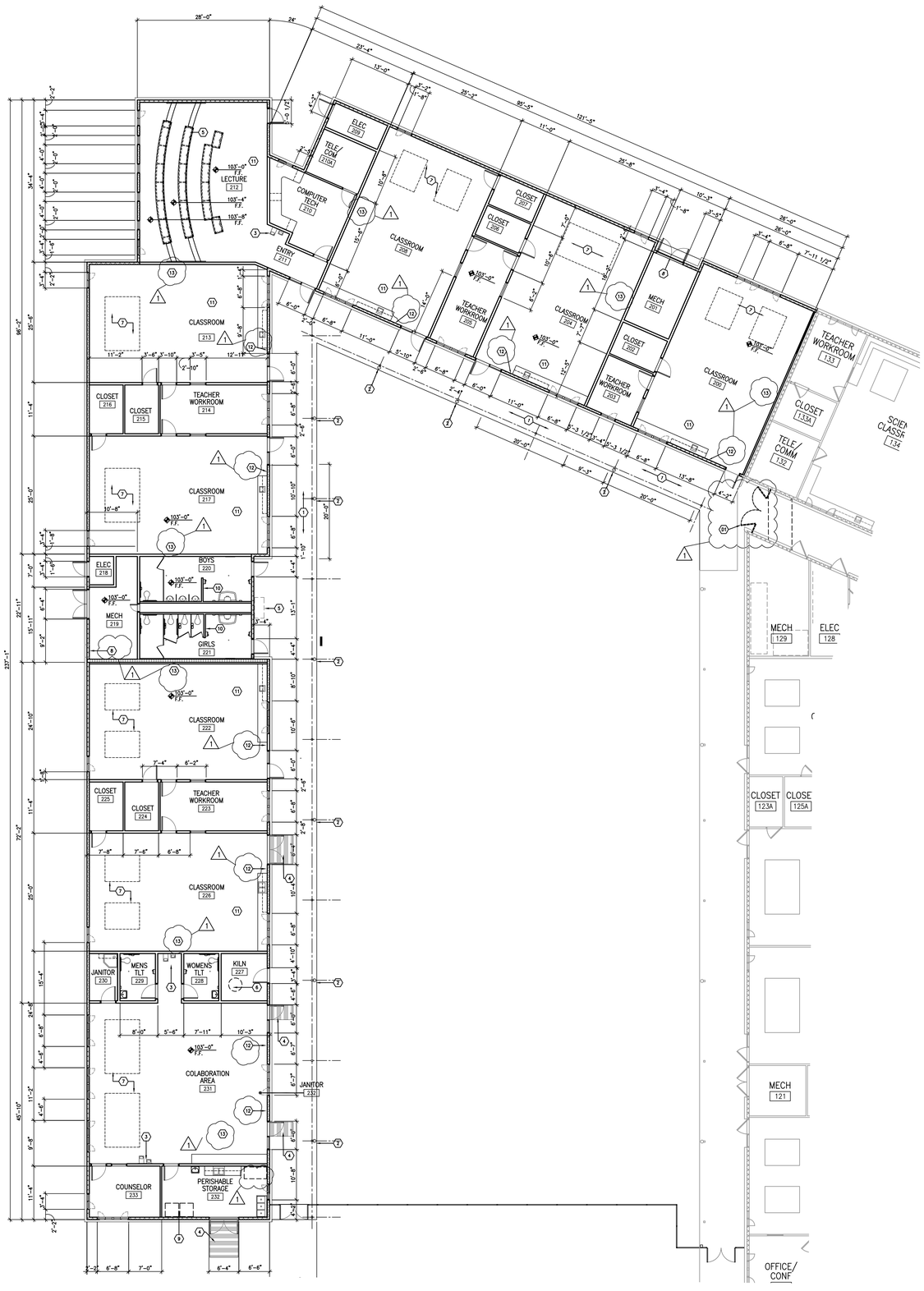
DESIGNER:	DLR
CHECKED:	MJW
DATE:	9.9.2019
SCALE:	
JOB NO.:	3050
CAD FILE:	

SHEET TITLE:

FOUNDATION SECTIONS & DETAILS

SHEET NUMBER:

S201



A2 **FLOOR PLAN - BUILDING DIMENSIONS**
SCALE: 3/32"=1'-0"

GENERAL NOTES

A. INTERIOR METAL STUD PARTITIONS TO BE [A] UNLESS OTHERWISE INDICATED.
B. REFER TO SHEET G102 FOR PARTITION WALL TYPES.
C. DRYWALL PARTITIONS ARE DIMENSIONED FACE OF STUD TO FACE OF STUD.
D. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, REQUEST CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
E. ELECTRICAL PANELS, FIRE EXTINGUISHERS CABINETS, ETC. LOCATED IN A RATED PARTITION SHALL BE BACKED WITH DRYWALL AS REQUIRED TO MAINTAIN FIRE RATING.
F. CONCEAL PIPING IN DRYWALL. WHERE PIPING IS TOO LARGE, FUR-OUT WALLS MINIMUM TO CONCEAL PIPING.
G. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROVIDING NECESSARY WOOD BLOCKING OR METAL STRAPPING WITHIN WALLS FOR WALL MOUNTED CABINETS, MILLWORK, GRAB BARS, EQUIPMENT, ETC. COORDINATE LOCATION AND BLOCKING REQUIREMENTS WITH ARCHITECT WHERE NECESSARY.
H. VERIFY LOCATION OF EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.

KEYED NOTES

1. SLOPED WALK, 1:20 SLOPE TYP.
2. DOWNSPOUT FROM GUTTER ABOVE
3. DRINKING FOUNTAIN
4. 3/4" CONCRETE SLAB DEPRESSION OUTSIDE ENTRY DOOR
5. BUILT-IN COUNTERTOP. REFER TO A-402 FOR ELEVATIONS.
6. PROVIDE SKUTT KILN KM-1227-3 PK, 208 VOLTS, OR EQUAL.
7. DORMERS ABOVE, TYP.
8. MECHANICAL GRILLE
9. PROVIDE CRES COR QUIKTHERM 12 KW RETHERM OVEN MODEL RO-151-FW-UA-18D SERIES WARMING TOWER, OR EQUAL.
10. FULL HEIGHT WALL.
11. PROVIDE A 25 STUDENT EMERGENCY RESPONSE KIT, SCHOOL HEALTH #90844, OR EQUAL.
12. MANUAL PENCIL SHARPENER, TYPICAL. FINAL HEIGHT AND LOCATION TO BE APPROVED BY OWNER.
13. FLAG POLE HOLDER, TYPICAL, CONTRACTOR TO VERIFY LOCATIONS PRIOR TO INSTALL.

DEMOLITION KEYED NOTES

D1. REMOVE EXISTING TUBE STEEL GATES AND FRAME. PATCH WALL TO MATCH EXISTING ADJACENT FINISH IN TEXTURE AND COLOR.

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CONSULTANT

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STATE OF NEW MEXICO
WENDY E.S. CARUSO
NO. 4842
REGISTERED ARCHITECT
8/16/19

PROJECT NAME

COYOTE WILLOW FAMILY SCHOOL- PHASE 2

7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

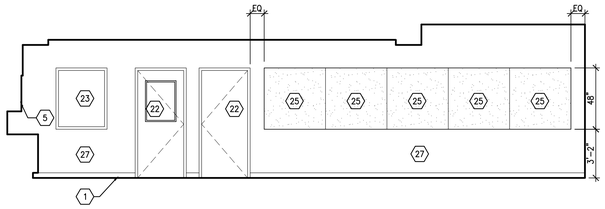
REVISIONS

NO.	DATE	DESCRIPTION
1	09/06/19	ADDENDUM 003

DESIGNER:	WESC
CHECKED:	WESC
DATE:	08.16.2019
SCALE:	3/32" = 1'-0"
JOB NO.:	3050
CAD FILE:	3050_A111

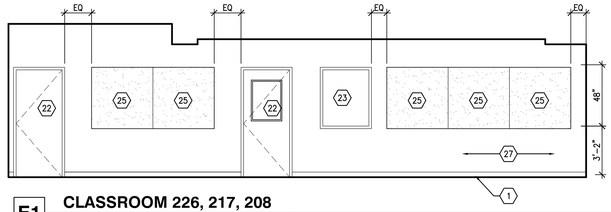
SHEET TITLE:
FLOOR PLAN
BUILDING DIMENSIONS

SHEET NUMBER:
A111



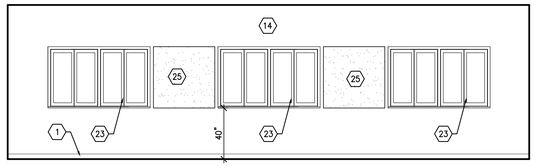
F1 CLASSROOM 200

SCALE: 1/4" = 1'-0"



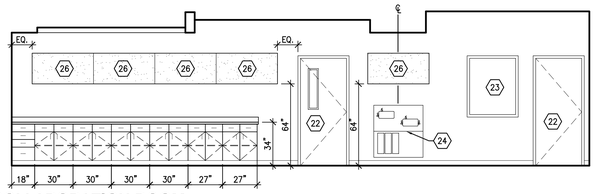
E1 CLASSROOM 226, 217, 208

SCALE: 1/4" = 1'-0"



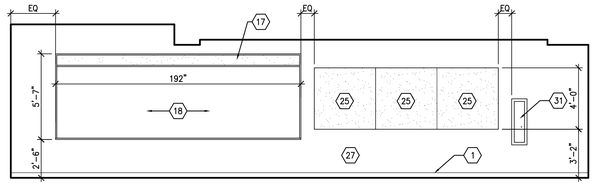
D1 COLLABORATION ROOM

SCALE: 1/4" = 1'-0"



C1 COLLABORATION ROOM

SCALE: 1/4" = 1'-0"



F3 CLASSROOM 200

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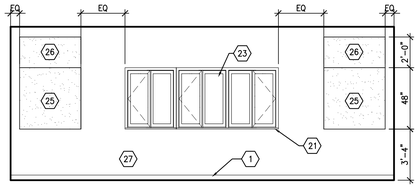

E3 CLASSROOM 200

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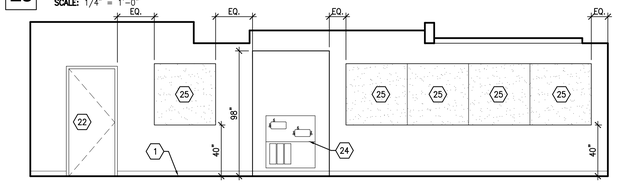

D3 COLLABORATION ROOM

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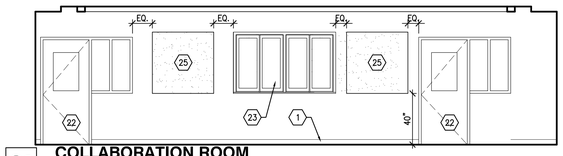

C3 COLLABORATION ROOM

SCALE: 1/4" = 1'-0"

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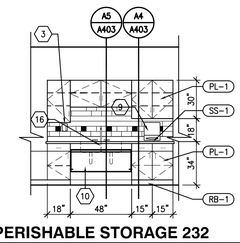
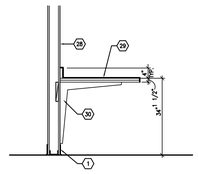


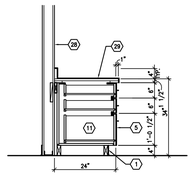
B2 PERISHABLE STORAGE 232

SCALE: 1/4" = 1'-0"



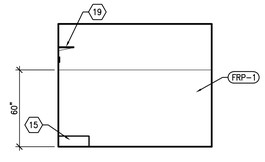
D5 CASEWORK SECTION

SCALE: 3/4" = 1'-0"



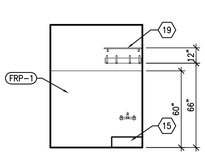
B5 CASEWORK SECTION

SCALE: 3/4" = 1'-0"



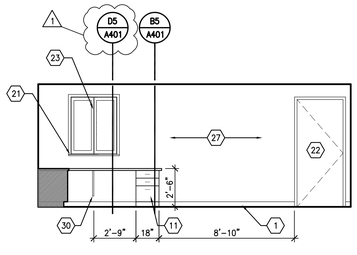
A1 JANITOR 230

SCALE: 1/4" = 1'-0"



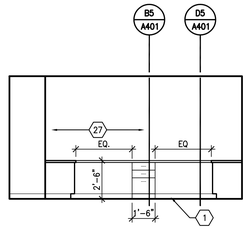
A2 JANITOR 230

SCALE: 1/4" = 1'-0"



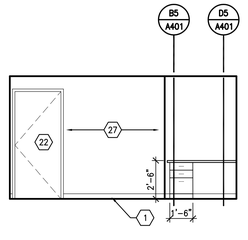
A3 COMPUTER TECH 210

SCALE: 1/4" = 1'-0"



A4 COMPUTER TECH 210

SCALE: 1/4" = 1'-0"



A5 COMPUTER TECH 210

SCALE: 1/4" = 1'-0"

GENERAL NOTES

A. ALL CHANGES IN FLOORING MATERIALS TO OCCUR AT MID-THRESHOLD OF INTERIOR DOORS.
B. ALL ACCESS PANELS SHALL BE PAINTED TO MATCH ADJACENT SURFACES IF NOT FACTORY FINISHED TO MATCH.
C. ALL TRANSITION STRIPS TO BE RUBBER TO MATCH RB-1 (UNLESS NOTED OTHERWISE).
D. PROVIDE AND INSTALL NEW WINDOW SHADES AT ALL EXTERIOR WINDOWS. PROVIDE MANUALLY OPERATED SHADES BY MECHOSHADE SYSTEMS AT WINDOWS WITH HEAD HEIGHT OF 7'-2" A.F.F. OR LOWER AND MOTORIZED SHADES AT ALL DORMER WINDOWS, OR APPROVED EQUAL, U.N.O. ARCHITECT TO SELECT FROM MANUFACTURER'S FULL LINE OF COLORS AND MATERIALS.
E. REFER TO SHEETS I600 ENLARGED PLANS FOR LINOLEUM, RUBBER, AND FLOOR TILE PATTERNS.
F. PLASTIC LAMINATE (PL):
   1. EXPOSED AREAS TO BE PL-1 (UNLESS NOTED OTHERWISE).
   2. ALL CASEWORK INTERIORS INCLUDING ALL SHELVING SURFACES TO RECEIVE WHITE MELAMINE FINISH.
   3. ALL CASEWORK TO RECEIVE (3mm THICK) PVC ACCENT EDGING (COLOR TO MATCH PL-1)
G. REFER TO PLANS, ELEVATIONS, AND/OR FINISH SCHEDULE FOR LOCATION OF ACCENT PAINT (PT).
H. AT CERAMIC TILE WAINSCOT, PROVIDE BULLNOSED CORNERS. BULLNOSE AT TOP OF WAINSCOT, OUT/IN CORNERS, AND STRETCHERS, AS REQUIRED TO PROVIDE A CONSISTENT INSTALLATION.
I. PROVIDE BULLNOSED CERAMIC TILE BORDER AROUND MIRROR AND TOILET ACCESSORIES THAT EXTEND ABOVE THE WAINSCOT, TYP.
J. ALL CONCEALED BLOCKING, BACKING PANELS, AND ANY OTHER AREAS INDICATED TO INCORPORATE THE USE OF FIRE RETARDANT TREATED WOOD.
K. PROVIDE DRAWER AND DOOR LOCKS AT ALL CASEWORK LOCATIONS.

KEYED NOTES

1. BASE
2. NOT USED
3. SOAP DISPENSER
4. NOT USED
5. PLASTIC LAMINATE CASEWORK
6. NOT USED
7. NOT USED
8. NOT USED
9. PAPER TOWEL DISPENSER
10. SLOPED ADA PLASTIC LAMINATE REMOVABLE PANEL WITH SIDE WALL CLIPS. FIELD VERIFY WITH PLUMBING FIXTURE.
11. DRAWERS
12. NOT USED
13. NOT USED
14. PAINT
15. JANITORS SINK
16. SINK
17. TACK/MAP RAIL
18. ALUMINUM FRAMED DRY ERASE MARKER BOARD WITH FULL WIDTH TRAY
19. SHELF/MOP HOLDER
20. NOT USED
21. SOLID SURFACE WINDOW SILL
22. DOOR AND FRAME
23. WINDOW AND FRAME
24. DRINKING FOUNTAINS
25. 4'-0" X 4'-0" TACKABLE WALL PANELS, NUMBER AND SPACING AS SHOWN
26. 2'-0" X 4'-0" TACKABLE WALL PANELS, NUMBER AND SPACING AS SHOWN
27. REFER TO FINISH SCHEDULE FOR WALL FINISH
28. 5/8" GYP. BD. OVER METAL STUDS
29. SOLID SURFACE COUNTER TOP
30. METAL HEAVY DUTY BRACE
31. FIRE EXTINGUISHER CABINET

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CONSULTANT

STAMP

STATE OF NEW MEXICO
WENDY E.S. CARUSO
NO. 4842
REGISTERED ARCHITECT
9/16/19

PROJECT NAME

COYOTE WILLOW
FAMILY SCHOOL- PHASE 2
7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

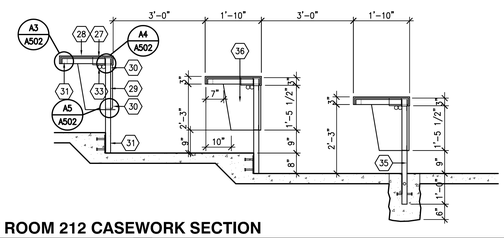
REVISIONS

NO.	DATE	DESCRIPTION
1	09/06/19	ADDENDUM 003

DESIGNER:	WESC
CHECKED:	WESC
DATE:	08.16.2019
SCALE:	3/4" = 1'-0"
JOB NO.:	3050
CAD FILE:	3050_A401

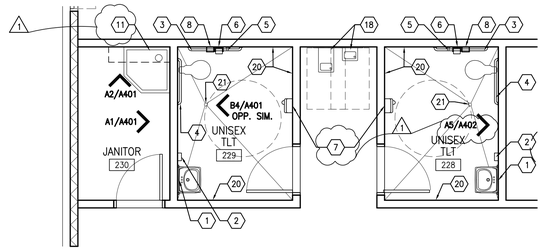
SHEET TITLE:
CASEWORK SECTIONS
INTERIOR ELEVATIONS

SHEET NUMBER:
A401



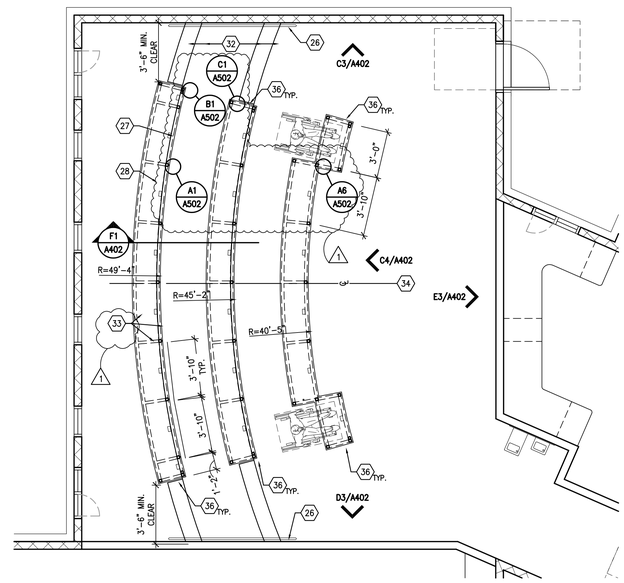
F1 LECTURE ROOM 212 CASEWORK SECTION

SCALE: 1/2" = 1'-0"



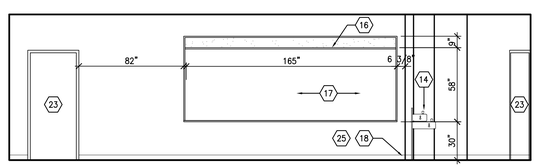
F3 ENLARGED PLANS - JANITOR 230, UNISEX 228 & 229

SCALE: 1/4" = 1'-0"



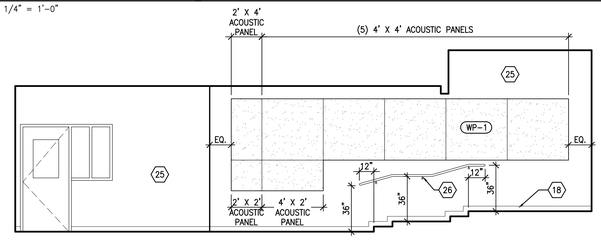
C1 LECTURE ROOM 212 ENLARGED PLAN

SCALE: 1/4" = 1'-0"



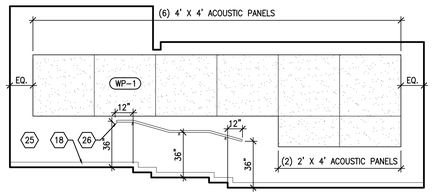
E3 LECTURE ROOM 212

SCALE: 1/4" = 1'-0"



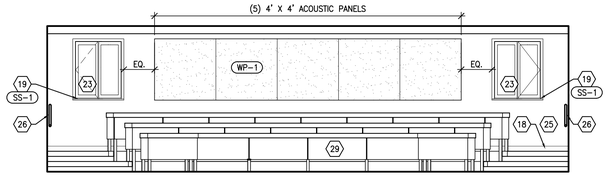
D3 LECTURE ROOM 212

SCALE: 1/4" = 1'-0"



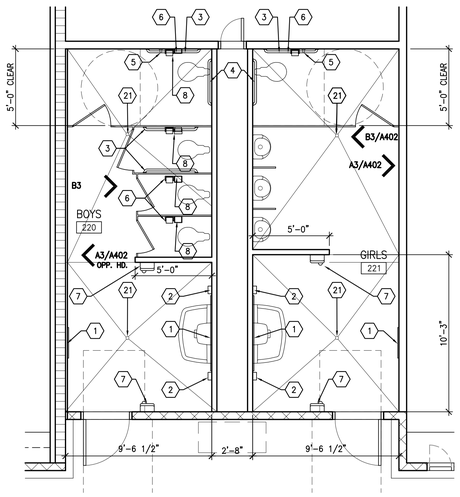
C3 LECTURE ROOM 212

SCALE: 1/4" = 1'-0"



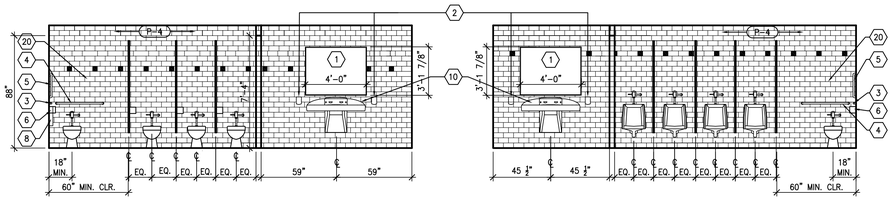
C4 LECTURE ROOM 212

SCALE: 1/4" = 1'-0"



A1 ENLARGED PLAN

SCALE: 1/4" = 1'-0"

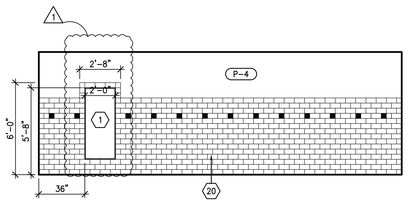


B3 RESTROOM 221

SCALE: 1/4" = 1'-0"

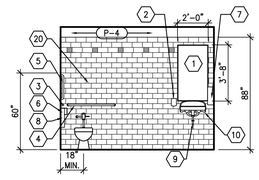
B4 RESTROOM 220

SCALE: 1/4" = 1'-0"



A3 RESTROOM 220, 221

SCALE: 1/4" = 1'-0"



A5 UNISEX TOILET 229

SCALE: 1/4" = 1'-0"

DELETED

GENERAL NOTES

A. ALL CHANGES IN FLOORING MATERIALS TO OCCUR AT MID-THRESHOLD OF INTERIOR DOORS.
B. ALL ACCESS PANELS SHALL BE PAINTED TO MATCH ADJACENT SURFACES IF NOT FACTORY FINISHED TO MATCH.
C. ALL TRANSITION STRIPS TO BE RUBBER TO MATCH RB-1 (UNLESS NOTED OTHERWISE).
D. PROVIDE AND INSTALL NEW WINDOW SHADES AT ALL EXTERIOR WINDOWS. PROVIDE MANUALLY OPERATED SHADES BY MECHOSHADE SYSTEMS AT WINDOWS WITH HEAD HEIGHT OF 7'-0" A.F.F. OR LOWER AND MOTORIZED SHADES AT ALL DORMER WINDOWS, OR APPROVED EQUAL, U.N.O. ARCHITECT TO SELECT FROM MANUFACTURER'S FULL LINE OF COLORS AND MATERIALS.
E. REFER TO SHEETS I600 ENLARGED PLANS FOR LINOLEUM, RUBBER, AND FLOOR TILE PATTERNS.
F. PLASTIC LAMINATE (PL):
1. EXPOSED AREAS TO BE PL-1 (UNLESS NOTED OTHERWISE).
2. ALL CASEWORK INTERIORS INCLUDING ALL SHELVING SURFACES TO RECEIVE WHITE MELAMINE FINISH.
3. ALL CASEWORK TO RECEIVE (3mm THICK) PVC ACCENT EDGING (COLOR TO MATCH PL-1)
G. REFER TO PLANS, ELEVATIONS, AND/OR FINISH SCHEDULE FOR LOCATION OF ACCENT PAINT (PT).
H. AT CERAMIC TILE WAINSCOT, PROVIDE BULLNOSED CORNERS. BULLNOSE AT TOP OF WAINSCOT, OUT/IN CORNERS, AND STRETCHERS, AS REQUIRED TO PROVIDE A CONSISTENT INSTALLATION.
I. PROVIDE BULLNOSED CERAMIC TILE BORDER AROUND MIRROR AND TOILET ACCESSORIES THAT EXTEND ABOVE THE WAINSCOT, TYP.
J. ALL CONCEALED BLOCKING, BACKING PANELS, AND ANY OTHER AREAS INDICATED TO INCORPORATE THE USE OF FIRE RETARDANT TREATED WOOD.
K. PROVIDE DRAWER AND DOOR LOCKS AT ALL CASEWORK LOCATIONS.

KEYED NOTES

1. MIRROR, DIMENSIONS AS SHOWN
2. SOAP DISPENSER
3. 42" GRAB BAR
4. 36" GRAB BAR
5. 18" GRAB BAR
6. TOILET PAPER DISPENSER
7. ELECTRIC HAND DRYER
8. SANITARY NAPKIN DISPOSAL
9. PIPE PROTECTOR
10. SINK
11. JANITORS SINK
12. GYPSUM BOARD SOFFIT
13. SHELF/MOP HOLDER
14. DRINKING FOUNTAIN
15. REFER TO DETAIL F1/403 FOR TYPICAL TILE BACKSPLASH
16. TACK/MAP RAIL
17. ALUMINUM FRAMED DRY ERASE MARKER BOARD WITH FULL-WIDTH TRAY
18. BASE
19. SILL
20. REFER TO DETAIL F2/A403 FOR TOILET WALL TILE LAYOUT
21. FLOOR DRAIN
22. DOOR AND FRAME
23. WINDOW AND FRAME
24. PLASTIC LAMINATE CASEWORK
25. PAINT
26. STEEL PIPE RAIL, PAINTED FINISH P-1
27. MOCKETT PCS5 POWER AND COMMUNICATIONS INTEGRATION SYSTEM, CENTER AT SEATS PER TWO STUDENTS
28. CURVED SOLID SURFACE TOP
29. SEGMENTED PLASTIC LAMINATE MODESTY PANEL
30. METAL ANGLE
31. 2" X 2" TUBE STEEL FRAME WELDED CONTINUOUS BOTH SIDES TO 7" SQUARE, 1/4" THICK STEEL PLATE WITH FOUR STUDS EMBEDDED IN CONCRETE
32. 4" STEPS AT ENDS OF DESKS
33. STEEL TUBE FRAME UNDER DESK TOP
34. CENTERLINE OF ROOM
35. 2" X 2" TUBE STEEL FRAME CAST IN CONCRETE, PROVIDE STEEL STUDS AT EMBEDDED PORTION FOR CONCRETE ANCHORAGE
36. PLASTIC LAMINATE SIDE MODESTY PANEL. LOCATE AT EACH ROW'S END.

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CONSULTANT

STAMP

STATE OF NEW MEXICO
WENDY E.S. CARUSO
NO. 4842
REGISTERED ARCHITECT
10/16/19

PROJECT NAME

COYOTE WILLOW
FAMILY SCHOOL- PHASE 2
7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

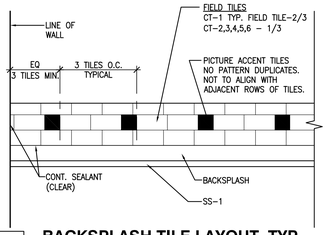
REVISIONS

NO.	DATE	DESCRIPTION
1	09/06/19	ADDENDUM 003

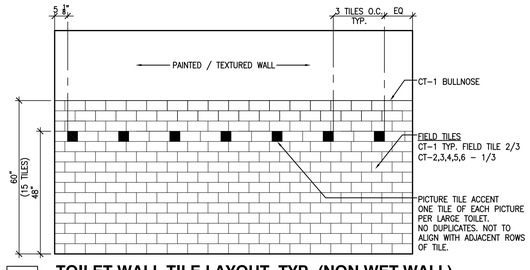
DESIGNER:	ESC
CHECKED:	WESC
DATE:	08.16.2019
SCALE:	1/4" = 1'-0"
JOB NO.:	3050
CAD FILE:	3050_A402

SHEET TITLE:
ENLARGED PLANS
INTERIOR ELEVATIONS

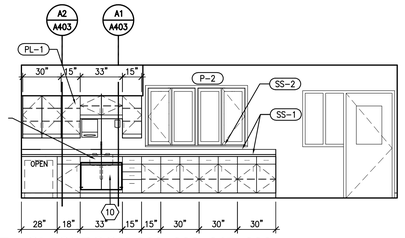
SHEET NUMBER:
A402



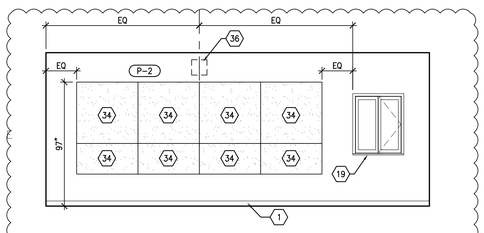
F1 BACKSPLASH TILE LAYOUT, TYP.
SCALE: 3/4" = 1'-0"



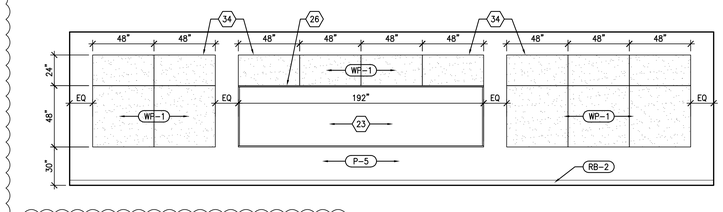
F2 TOILET WALL TILE LAYOUT, TYP. (NON WET WALL)
SCALE: 1/2" = 1'-0"



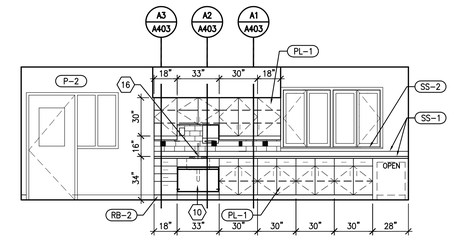
F3 CLASSROOM 200, 208, 217, 226
SCALE: 1/4" = 1'-0"



E1 TEACHING WALL LAYOUT, TYP.
SCALE: 1/4" = 1'-0"

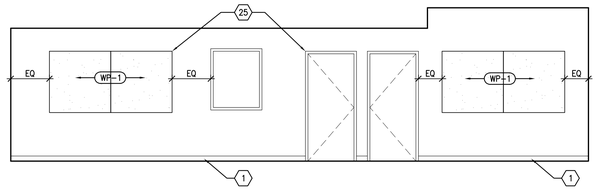


E2 TEACHING WALL LAYOUT
SCALE: 1/4" = 1'-0"

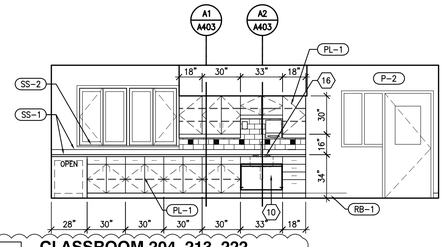


D3 CLASSROOM 200, 208, 217, 226
SCALE: 1/4" = 1'-0"

DELETED



C3 CLASSROOM 222, 213, 204
SCALE: 1/4" = 1'-0"



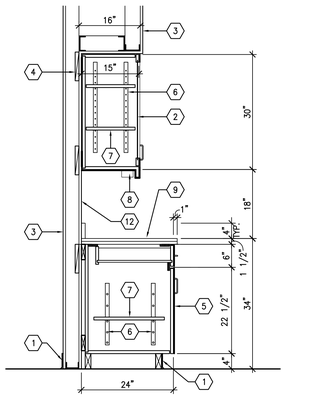
C5 CLASSROOM 204, 213, 222
SCALE: 1/4" = 1'-0"

GENERAL NOTES

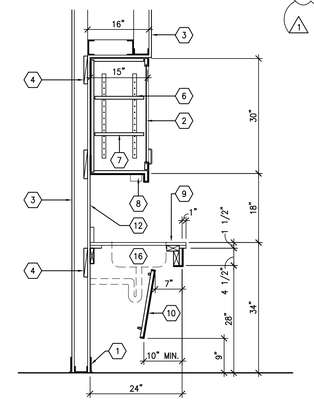
A. ALL CHANGES IN FLOORING MATERIALS TO OCCUR AT MID-THRESHOLD OF INTERIOR DOORS.
B. ALL ACCESS PANELS SHALL BE PAINTED TO MATCH ADJACENT SURFACES IF NOT FACTORY FINISHED TO MATCH.
C. ALL TRANSITION STRIPS TO BE RUBBER TO MATCH RB-1 (UNLESS NOTED OTHERWISE).
D. PROVIDE AND INSTALL NEW WINDOW SHADES AT ALL EXTERIOR WINDOWS. PROVIDE MANUALLY OPERATED SHADES BY MECHOSHADE SYSTEMS AT WINDOWS WITH HEAD HEIGHT OF 7'-2" A.F.F. OR LOWER AND MOTORIZED SHADES AT ALL DORMER WINDOWS, OR APPROVED EQUAL, U.N.O. ARCHITECT TO SELECT FROM MANUFACTURER'S FULL LINE OF COLORS AND MATERIALS.
E. REFER TO SHEETS I600 ENLARGED PLANS FOR LINOLEUM, RUBBER, AND FLOOR TILE PATTERNS.
F. PLASTIC LAMINATE (PL):
1. EXPOSED AREAS TO BE PL-1 (UNLESS NOTED OTHERWISE).
2. ALL CASEWORK INTERIORS INCLUDING ALL SHELVING SURFACES TO RECEIVE WHITE MELAMINE FINISH.
3. ALL CASEWORK TO RECEIVE (3mm THICK) PVC ACCENT EDGING (COLOR TO MATCH PL-1)
G. REFER TO PLANS, ELEVATIONS, AND/OR FINISH SCHEDULE FOR LOCATION OF ACCENT PAINT (PT).
H. AT CERAMIC TILE WAINSCOT, PROVIDE BULLNOSED CORNERS. BULLNOSE AT TOP OF WAINSCOT, OUT/IN CORNERS, AND STRETCHERS, AS REQUIRED TO PROVIDE A CONSISTENT INSTALLATION.
I. PROVIDE BULLNOSED CERAMIC TILE BORDER AROUND MIRROR AND TOILET ACCESSORIES THAT EXTEND ABOVE THE WAINSCOT, TYP.
J. ALL CONCEALED BLOCKING, BACKING PANELS, AND ANY OTHER AREAS INDICATED TO INCORPORATE THE USE OF FIRE RETARDANT TREATED WOOD.
K. PROVIDE DRAWER AND DOOR LOCKS AT ALL CASEWORK LOCATIONS.

KEYED NOTES

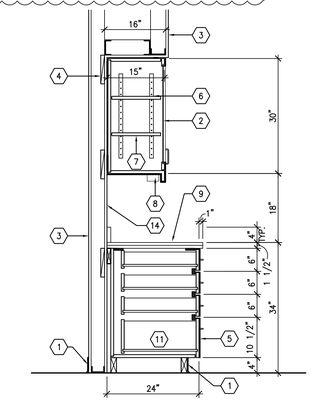
1. BASE AS SCHEDULED.
2. 1/4" TEMPERED GLASS.
3. 5/8" GYP. BD. OVER METAL STUDS.
4. 1"x8" SOLID PRESSURE TREATED WOOD BLOCKING BETWEEN STUDS.
5. PLASTIC LAMINATE CASEWORK.
6. RECESSED METAL STANDARDS WITH CLIPS.
7. 3/4" ADJUSTABLE SHELVES.
8. UNDER CABINET LIGHTS.
9. SOLID SURFACE COUNTERTOP AND BACKSPLASH.
10. SLOPED ADA PLASTIC LAMINATE REMOVEABLE PANEL WITH SIDE WALL CLIPS.
11. DRAWERS.
12. CERAMIC TILE OVER TILE BACKER BOARD.
13. VARIES. REFER TO ELEVATIONS AND SCHEDULE.
14. WALLCOVERING AS SCHEDULED.
15. 5/8" GYP. BD.
16. SINK.
17. WOOD STUD WALL.
18. PROVIDE 3/4" FINS FOR SUPPORT OF TOP SHELF.
19. SOLID SURFACE.
20. 3/4"x3/4" ALUMINUM ANGLE.
21. HORIZONTAL BRACE.
22. TACK/MAP RAIL.
23. ALUMINUM FRAMED DRY ERASEMARKER BOARD WITH FULL WIDTH TRAY.
24. CONTINUOUS ALUMINUM EDGE.
25. ALIGN.
26. MAP RAIL.
27. 8" WIDE x 44" LONG 3/8" TEMPERED GLASS SHELF.
28. WALL SCONCE.
29. RECESSED SHELF TRACK SYSTEM.
30. SUPPORT BRACKET.
31. (1) LAYER 1/2" GYP. BD. OVER PARTITION.
32. 5/8" GYP. BD. OVER 6" METAL STUDS.
33. CORNER BEAD.
34. ACOUSTIC WALL PANEL.
35. PLASTIC LAMINATE OVER ALL EXPOSED SURFACES.
36. CLOCK



B1 CASEWORK SECTION
SCALE: 3/4" = 1'-0"



B2 CASEWORK SECTION
SCALE: 3/4" = 1'-0"



B3 CASEWORK SECTION
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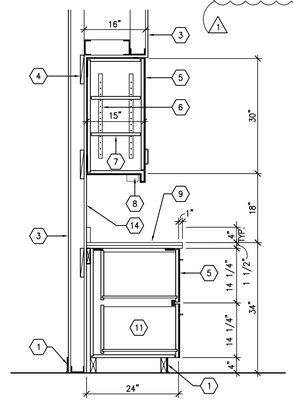

B4 CASEWORK SECTION
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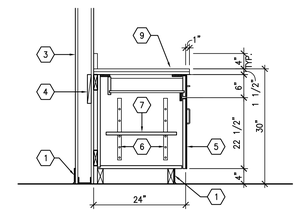
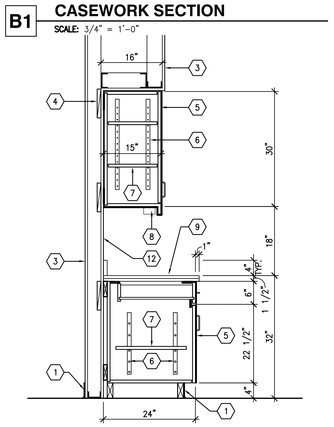
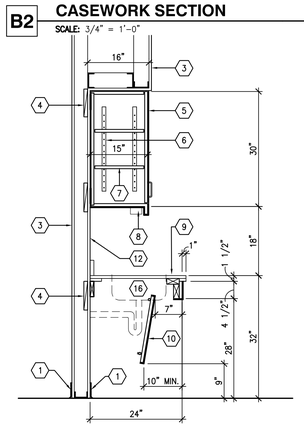


B6 CASEWORK SECTION
SCALE: 3/4" = 1'-0"



A1 CASEWORK SECTION
SCALE: 3/4" = 1'-0"



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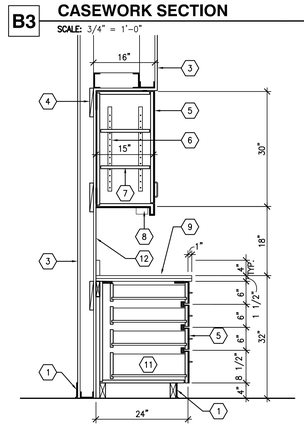
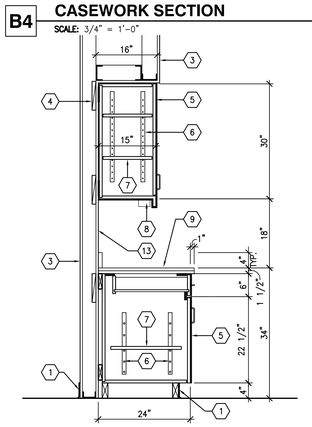


A3 CASEWORK SECTION
SCALE: 3/4" = 1'-0"



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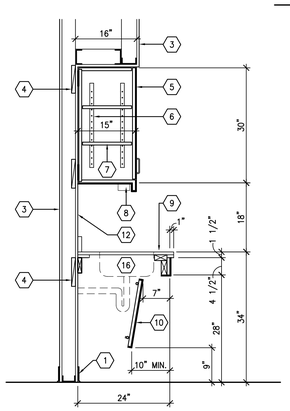
SCALE: 3/4" = 1'-0"



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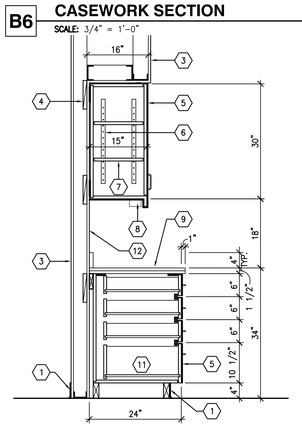
SCALE: 3/4" = 1'-0"



A6 CASEWORK SECTION
SCALE: 3/4" = 1'-0"

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CONSULTANT

STAMP

STATE OF NEW MEXICO
WENDY E.S. CARUSO
NO. 4842
REGISTERED ARCHITECT
10/9/19

PROJECT NAME

COYOTE WILLOW FAMILY SCHOOL- PHASE 2
7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

REVISIONS

NO.	DATE	DESCRIPTION
1	09/06/19	ADDENDUM 003

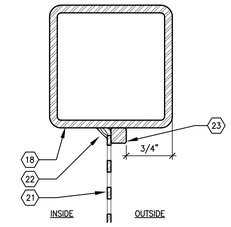
DESIGNER:	ESC
CHECKED:	WESC
DATE:	08.16.2019
SCALE:	3/4" = 1'-0"
JOB NO.:	3050
CAD FILE:	3042_A403

SHEET TITLE:
CASEWORK SECTIONS
INTERIOR ELEVATIONS

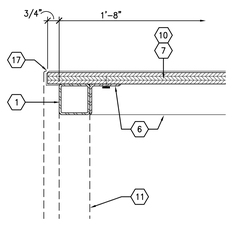
SHEET NUMBER:
A403

KEYED NOTES

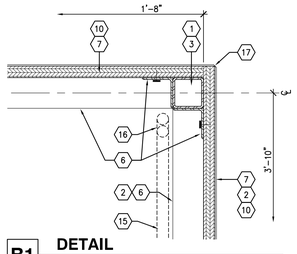
1. WELDED 2x2x10 GA. STEEL TUBE FRAME
2. CURVED
3. POSTS ANCHORED TO CONCRETE BELOW
4. 1/2" SOLID SURFACE OVER 1/2" PLYWOOD
5. ELECTRICAL POWER AND COMPUTER CONDUITS
6. 2x2x1/8" CONTINUOUS STEEL ANGLE WELDED TO FRAME
7. PLASTIC LAMINATE COVERED 3/4" PLYWOOD PANEL ANCHORED TO ANGLES WITH GLUE AND 3/4" SCREWS AT 8" O.C.
8. POWER AND COMMUNICATIONS INTEGRATION SYSTEM BOX, MOCKETT PCS368/U1-94 – MEDIUM POP UP POWER GROMMET (2 POWER, 1 DATA, DUAL USB CHARGER), OR EQUAL AS APPROVED BY ARCHITECT.
9. ANCHORED TO SLAB WITH BASE PLATE AND ANCHOR BOLTS
10. COVER ALL EXPOSED SIDES AND EDGES
11. FRAME ABOVE
12. ATTACH TO FRAME WITH GLUE AND 2-1/2" SCREWS
13. PANEL JOINT
14. 2x3x1/8" STEEL ANGLE WELDED TO FRAME
15. ROUTE CONDUIT ALONG INSIDE OF TOP FRAME
16. CONDUIT RISERS FOR POWER AND COMMUNICATIONS FROM SLAB BELOW
17. PROVIDE A 45° EDGE AT ALL OUTSIDE CORNERS
18. 2" STEEL TUBE
19. STEEL PERFORATED PANEL TO MATCH EXISTING PANEL BELOW
20. ATTACH TO WALL TO MATCH EXISTING ATTACHMENT, TYP.
21. 16 GA. STEEL PERFORATED PANEL (5/8% OPEN AREA, 1/4" DIAMETER HOLES, 5/16" STAGGERED CENTERS) WELDED TO STEEL TUBE.
22. CONTINUOUS BEAD OF WELD, GRIND SMOOTH.
23. 1/4" SQUARE STEEL BAR.



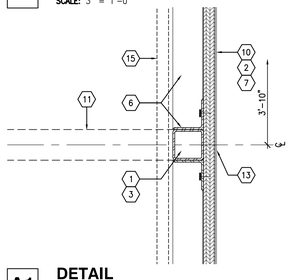
C5 TYPICAL FENCE/GATE SECTION
SCALE: 1'-0" = 1'-0"



C1 DETAIL
SCALE: 3" = 1'-0"



B1 DETAIL
SCALE: 3" = 1'-0"



A1 DETAIL
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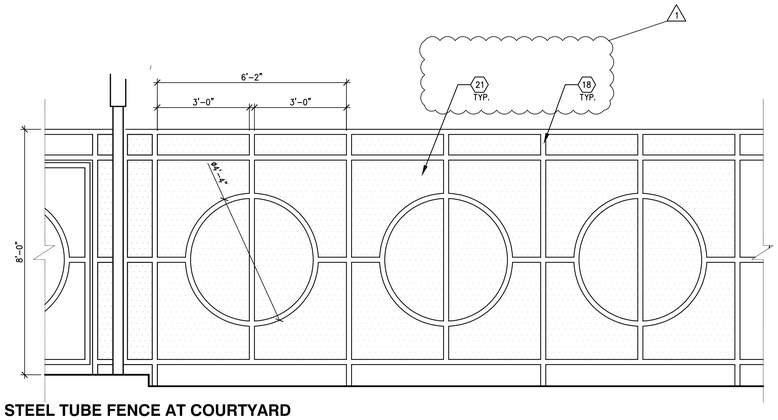
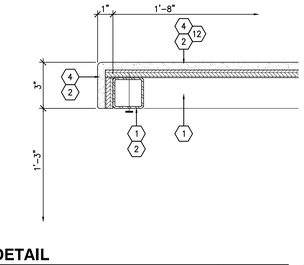


B3 STEEL TUBE FENCE AT COURTYARD
SCALE: 1/2" = 1'-0"



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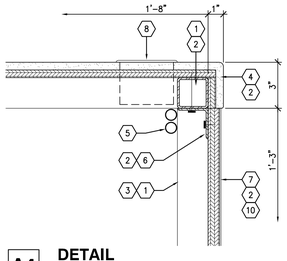
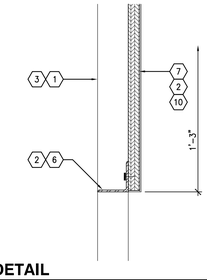
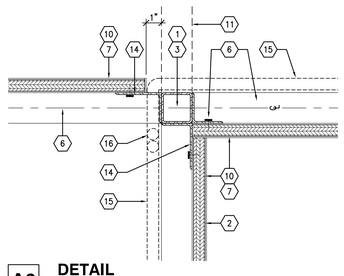
SCALE: 3" = 1'-0"



A4 DETAIL
SCALE: 3" = 1'-0"



A5 DETAIL
SCALE: 3" = 1'-0"



A6 DETAIL
SCALE: 3" = 1'-0"

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CONSULTANT

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STATE OF NEW MEXICO
WENDY E.S. CARUSO
NO. 4642
9/16/19
REGISTERED ARCHITECT

PROJECT NAME

COYOTE WILLOW FAMILY SCHOOL- PHASE 2

7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

REVISIONS

NO.	DATE	DESCRIPTION
1	09/06/19	ADDENDUM 003

DESIGNER:	WESC
CHECKED:	WESC
DATE:	08.16.2019
SCALE:	AS INDICATED
JOB NO.:	3050
CAD FILE:	3050_A501

SHEET TITLE:
DETAILS

SHEET NUMBER:
A502

DOOR SCHEDULE

NO.	DOOR					FRAME					RATING	REMARKS
	ROOM	SIZE	TYPE	MAT.	GLAZ.	TYPE	MAT.	HEAD	JAMB	THRESH.		
200	CLASSROOM	3'-0" x 7'-0" x 1 3/4"	D	HM	1	D	HM	F3/A501	E5/A501	B5/A501	–	–
201	MECHANICAL	PAIR 3'-0"x7'-0"x1 3/4"	A	HM	–	A	HM	F5/A501	F5/A501	B5/A501	45 MIN.	2
202	CLOSET	3'-0" x 7'-0" x 1 3/4"	B	WD		A	HM	B3/A501	B3/A501	–	–	–
203	TEACHER WORKROOM	3'-0" x 7'-0" x 1 3/4"	B	WD	1	A	HM	B3/A501	B3/A501	–	–	–
204	CLASSROOM	3'-0" x 7'-0" x 1 3/4"	D	HM	1	D	HM	F3/A501	E5/A501	B5/A501	–	–
205	TEACHER WORKROOM	3'-0" x 7'-0" x 1 3/4"	B	WD	1	A	HM	B3/A501	B3/A501	–	–	–
205A	TEACHER WORKROOM	3'-0" x 7'-0" x 1 3/4"	B	WD	1	A	HM	B3/A501	B3/A501	–	–	–
206	CLOSET	3'-0" x 7'-0" x 1 3/4"	B	WD		A	HM	B3/A501	B3/A501	–	–	–
207	CLOSET	3'-0" x 7'-0" x 1 3/4"	B	WD		A	HM	B3/A501	B3/A501	–	–	–
208	CLASSROOM	3'-0" x 7'-0" x 1 3/4"	D	HM	1	D	HM	F3/A501	E5/A501	B5/A501	–	–
209	ELECTRICAL	3'-0" x 7'-0" x 1 3/4"	C	HM		A	HM	F3/A501	E5/A501	B5/A501	45 MIN.	
210	COMPUTER TECH	3'-0" x 7'-0" x 1 3/4"	B	WD		A	HM	B3/A501	B3/A501			
210A	TELE/COMM	3'-0" x 7'-0" x 1 3/4"	A	HM	–	A	HM	B3/A501	B3/A501			
211	ENTRY	3'-0" x 7'-0" x 1 3/4"	D	HM	1	D	HM	F3/A501	E5/A501	B5/A501		
212	LECTURE	3'-0" x 7'-0" x 1 3/4"	D	HM	1	A	HM	F3/A501	E5/A501	B5/A501		
213	CLASSROOM	3'-0" x 7'-0" x 1 3/4"	D	HM	1	D	HM	F3/A501	E5/A501	B5/A501	–	–
214	TEACHER WORKROOM	3'-0" x 7'-0" x 1 3/4"	B	WD	1	A	HM	B3/A501	B3/A501	–	–	–
214A	TEACHER WORKROOM	3'-0" x 7'-0" x 1 3/4"	B	WD	1	A	HM	B3/A501	B3/A501	–	–	–
215	CLOSET	3'-0" x 7'-0" x 1 3/4"	B	WD		A	HM	B3/A501	B3/A501	–	–	–
216	CLOSET	3'-0" x 7'-0" x 1¾"	B	WD		A	HM	F3/A501	F3/A501	–	–	–
217	CLASSROOM	3'-0" x 7'-0" x 1¾"	D	HM	1	D	HM	F5/A501	F5/A501	B5/A501	–	
218	ELECTRICAL	3'-0" x 7'-0" x 1¾"	C	HM	–	A	HM	F5/A501	E5/A501 F5/A501	B5/A501	45 MIN.	2
219	MECHANICAL	PAIR 3'-0"x7'-0"x1¾"	A	HM	–	A	HM	F5/A501	E5/A501 F5/A501	B5/A501	45 MIN.	2
219A	MECHANICAL	1'-8" x 7'-0" x 1¾"	A	HM	–	A	HM	F4/A501	F4/A501	–	45 MIN.	2
220	BOYS RESTROOM	3'-0" x 7'-0" x 1¾"	A	HM	–	A	HM	F5/A501	F5/A501	B5/A501	–	–
221	GIRLS RESTROOM	3'-0" x 7'-0" x 1¾"	A	HM	–	B	HM	F5/A501	F5/A501	B5/A501	90 MIN.	–
222	CLASSROOM	3'-0" x 7'-0" x 1¾"	D	HM	1	D	HM	F5/A501	F5/A501 B4/A501	B5/A501	–	–
223	TEACHER WORKROOM	3'-0" x 7'-0" x 1¾"	B	WD	–	A	HM	F3/A501	F3/A501	B5/A501	–	–
223A	TEACHER WORKROOM	3'-0" x 7'-0" x 1¾"	B	WD	–	A	HM	F3/A501	F3/A501	B5/A501	–	–
224	CLOSET	3'-0" x 7'-0" x 1¾"	B	WD	–	A	HM	F3/A501	F3/A501	–	–	–
225	CLOSET	3'-0" x 7'-0" x 1¾"	B	WD		A	HM	F3/A501	F3/A501	–	–	–
226	CLASSROOM	PAIR 3'-0"x7'-0"x1¾"	D	HM	1	D	HM	F3/A501	F5/A501 B4/A501	B5/A501	–	
227	KILN	3'-0" x 7'-0" x 1¾"	A	HM	–	B	HM	F5/A501	E5/A501 F5/A501	B5/A501	45 MIN.	2
228	UNISEX TLT	3'-0" x 7'-0" x 1¾"	A	HM	4	A	HM	F4/A501	F4/A501	–		–
229	UNISEX TLT	3'-0" x 7'-0" x 1¾"	A	HM	–	A	HM	F3/A501	F3/A501	–	–	–
230	JANITOR	3'-0" x 7'-0" x 1¾"	A	HM	–	A	HM	F3/A501	F3/A501	–	–	–
231	COLLABORATION AREA	3'-0" x 7'-0" x 1¾"	D	HM	1	D	HM	F3/A501	F5/A501 B4/A501	B5/A501	–	
231A	COLLABORATION AREA	3'-0" x 7'-0" x 1¾"	D	HM	1	D	HM	F3/A501	F5/A501	B5/A501	–	
232	PERISHABLE AREA	PAIR 3'-0"x6'-7"x2"	D	HM	1	A	HM	F5/A501	F5/A501	B5/A501	–	–
232A	PERISHABLE AREA	3'-0" x 7'-0" x 1¾"	A	HM	1	A	HM	F3/A501	F3/A501		–	
233	COUNSELOR	3'-0" x 7'-0" x 1¾"	B	WD	1	A	HM	F3/A501	F3/A501		–	
G103	GATE	PAIR 3'-6"x6'-7"x2"	G	STL	–	E	STL	–	–	–	–	–
G103A	GATE	PAIR 3'-6"x6'-7"x2"	G	STL	–	E	STL	–	–	–	–	–

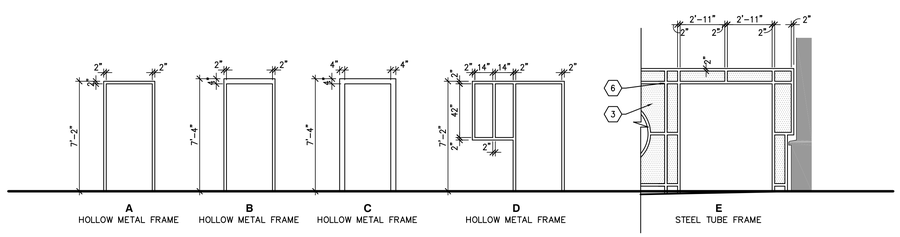
1

KEYED NOTES

1. 1" LAMINATED/TEMPERED GLASS
2. SMOKE SEAL
3. 16 GA. STEEL PERFORATED PANEL (58% OPEN AREA, 1/4" DIAMETER HOLES, 5/16" STAGGERED CENTERS) WELDED TO STEEL TUBE
4. EXIT DEVICE. PROVIDE FRAME SUPPORT.
5. STEEL PLATE
6. 2" SQUARE STEEL TUBE, ALL WELDS GROUND SMOOTH, PRIMED AND PAINTED, COLOR TO BE SELECTED BY ARCHITECT
7. DOOR LOUVER. PAINT TO MATCH DOOR.

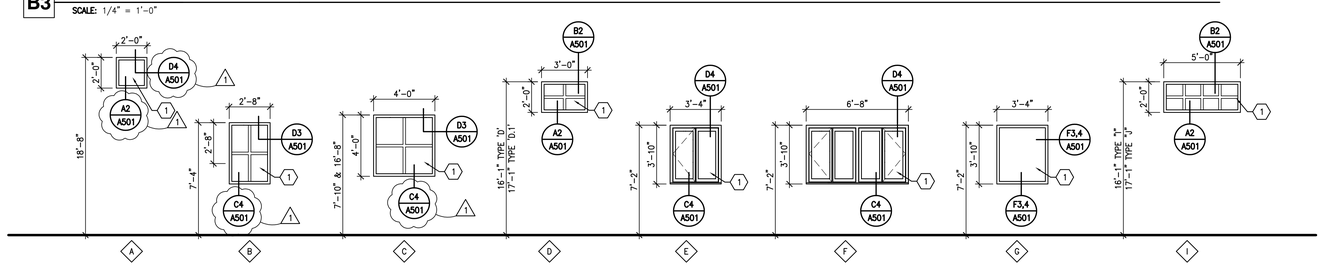
C3 DOOR TYPES

SCALE: 1/4" = 1'-0"



B3 DOOR FRAMES

SCALE: 1/4" = 1'-0"



A3 WINDOW FRAMES

SCALE: 1/4" = 1'-0"

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CONSULTANT

STAMP

STATE OF NEW MEXICO
WENDY E.S. CARUSO
NO. 4842
REGISTERED ARCHITECT
6/19

PROJECT NAME

COYOTE WILLOW
FAMILY SCHOOL- PHASE 2
7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

REVISIONS		
NO.	DATE	DESCRIPTION
1	09/06/19	ADDENDUM 003

DESIGNER:	WESC
CHECKED:	WESC
DATE:	08.16.2019
SCALE:	1/4" = 1'-0"
JOB NO.:	3050
CAD FILE:	3050_601

SHEET TITLE:
DOOR SCHEDULE
DOOR TYPES
DOOR AND WINDOW FRAMES

SHEET NUMBER:
A601

FINISH LEGEND

FLOOR FINISHES

MARK	MATERIAL	COLOR	MANUFACTURER	COMMENTS
CPT–1	CARPET TILE	KLASS ROOM: SOCIAL STUDIES COLOR: 178149 SCHMICK	INTERFACE FLOR	CLASSROOMS
CPT–2	CARPET TILE	KLASS ROOM: STUDENT COUNCIL COLOR: 178133 SCHMICK	INTERFACE FLOR	TEACHER WORKROOMS
SC–1	SEALED CONCRETE	NO COLOR		MECHANICAL, ELECTRICAL AND
PC–1	POLISHED CONCRETE	NO COLOR		JANITOR ROOMS
WO–1	ENTRANCE MAT	MILL FINISH ALUMINUM	C/S PEDISYSTEMS–PEDITRED SA	RECESSED SLAB
WO–2	WALK OFF MAT	SUPERFLOR: COLOR TBD	INTERFACE	INTERIOR ONLY

BASE FINISHES

MARK	MATERIAL	COLOR	MANUFACTURER	COMMENTS
RB–1	RUBBER BASE	CHARCOAL WG 20	JOHNSONITE	4" BASE SIZE

WALL FINISHES

MARK	MATERIAL	COLOR	MANUFACTURER	COMMENTS
CT–1	PORCELAIN TILE	NATURAL HUES ECO BODY: IVORY QF24	DALTILE	4.25 X 8.5 TILE (TALC BODY)
CT–2	PORCELAIN TILE	NATURAL HUES ECO BODY: FERN QF80	DALTILE	4.25 X 8.5 TILE (TALC BODY)
CT–3	PORCELAIN TILE	NATURAL HUES ECO BODY: AEGEAN QF41	DALTILE	4.25 X 8.5 TILE (TALC BODY)
CT–4	PORCELAIN TILE	NATURAL HUES ECO BODY: ATLANTIS QF43	DALTILE	4.25 X 8.5 TILE (TALC BODY)
CT–5	PORCELAIN TILE	NATURAL HUES ECO BODY: DIJON QF73	DALTILE	4.25 X 8.5 TILE (TALC BODY)
CT–6	PORCELAIN TILE	NATURAL HUES ECO BODY: MANGO QF71	DALTILE	4.25 X 8.5 TILE (TALC BODY)
CT–7	PORCELAIN TILE	IVORY QF24 W/CUSTOM GRAPHIC PRINT	DALTILE	4.25 X 4.25 TILE (TALC BODY)
GT–1	GROUT	ALABASTER #333	CUSTOM BUILDING PRODUCTS	USE WITH CT
FRP–1	FIBER REIN. PANEL	TBD	MARLITE	
P–1	PAINT	BONE CHINA DEW339	DUNN EDWARDS	FIELD
P–2	PAINT	GRASS ROOT DE5521	DUNN EDWARDS	–
P–3	PAINT	MONTEGO BAY DE5739	DUNN EDWARDS	–
P–4	PAINT	GOLDEN RETRIEVER DE5318	DUNN EDWARDS	–
P–5	PAINT	YAMS DE5200	DUNN EDWARDS	–
P–6	PAINT	SPANISH PEANUT DE5180	DUNN EDWARDS	–
P–8	PAINT	TOASTED MARSHMALLOW DE6165	DUNN EDWARDS	–
P–9	PAINT	MATCH EXISTING METAL ROOF	DUNN EDWARDS	COLUMNS, DOWNSPOUTS, SOFFITS AND EAVES
P–10	PAINT	MATCH EXISTING EXTERIOR DOORS AND DOOR FRAMES	DUNN EDWARDS	EXTERIOR CLASSROOM DOORS AND DOOR FRAMES

MICSELLANEOUS

MARK	MATERIAL	COLOR	MANUFACTURER	COMMENTS
PL–1	LAMINATE	MANITOBA MAPLE 7911–60	WILSONART LAMINATE	CASEWORK
SS–1	SOLID SURFACE	NATURAL GRAY	CORIAN	COUNTERTOPS
SS–2	SOLID SURFACE	BISQUE	CORIAN	WINDOW SILL
WP–1	WALL PANEL	PEWTER COPPERSMITH #59–54	ECO ART BY HYTEX	CLASSROOMS
WP–2	WALL PANEL	FLAGSTONE COPPERSMITH #59–53	ECO ART BY HYTEX	LECTURE
CR–1	CHAIR RAIL	STAINED WOOD GOLDEN OAK #68	BENJAMIN MOORE BENWOOD	4" WIDE– WAITING AREA

CEILING FINISHES

MARK	MATERIAL	COLOR	MANUFACTURER	COMMENTS
ACT–1	ACOUSTIC CEILING PANELS	SCHOOL ZONE – FINE FISSURED WHITE, HIGH NRC/HIGH CAC	ARMSTRONG	WHITE, 15/16" PRELUDE SUSPENSION SYSTEM
ACT–2	ACOUSTIC CEILING PANELS	FINE FISSURED – WHITE	ARMSTRONG	WHITE, 15/16" PRELUDE SUSPENSION SYSTEM
GYP–1	GYPSUM BOARD CEILING	TEXTURED, PAINTED	–	PT–1, UNLESS NOTED OTHERWISE
SW–1	STAINED WOOD	MATCH EXISTING	BENJAMIN MOORE – BENWOOD	EXPOSED WOOD PLANKS AND BEAMS
				EXPOSED TRIM AT EAVES

FINISH SCHEDULE

NO	ROOM NAMES	FLOOR	BASE	WALLS N	WALLS E	WALLS S	WALLS W	CASEWORK CABINETS	CASEWORK COUNTER	WALL PANEL FABRIC	CLG.
200	CLASSROOM	CPT–1/PC–1	RB–1	P–1	P–2	P–1/CT	P–3	PL–1	SS–1	WP–1	ACT–1
201	MECHANICAL	SC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	GYP–1
202	CLOSET	SC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	ACT–2
203	TEACHER WORKROOM	CPT–2	RB–1	P–1	P–1	P–1	P–6	–	–	–	ACT–1
204	CLASSROOM	CPT–1/PC–1	RB–1	P–1	P–4	P–1/CT	P–5	PL–1	SS–1	WP–1	ACT–1
205	TEACHER WORKROOM	CPT–2	RB–1	P–1	P–1	P–1	P–6	–	–	–	ACT–1
206	CLOSET	PC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	ACT–2
207	CLOSET	PC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	ACT–2
208	CLASSROOM	CPT–1/PC–1	RB–1	P–1	P–2	P–1/CT	P–3	PL–1	SS–1	WP–1	ACT–1
209	ELECTRICAL	SC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	GYP–1
210	COMPUTER TECH	CPT–2	RB–1	P–1	P–1	P–1	P–1	–	–	–	ACT–1
210A	TELE/COM	SC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	ACT–2
211	ENTRY	WO–2	RB–1	P–6	P–1	P–6	–	–	–	WP–1	ACT–1
212	LECTURE	CPT–1/PC–1	RB–1	P–8	P–8	P–8	P–3	–	–	WP–2	ACT–1
213	CLASSROOM	CPT–1/PC–1	RB–1	P–3	P–1/CT	P–2	P–1	PL–1	SS–1	WP–1	ACT–1
214	TEACHER WORKROOM	CPT–2	RB–1	P–1	P–1	P–6	P–1	–	–	–	ACT–2
215	CLOSET	PC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	ACT–2
216	CLOSET	PC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	ACT–2
217	CLASSROOM	CPT–1/PC–1	RB–1	P–5	P–1/CT	P–4	P–1	PL–1	SS–1	WP–1	ACT–1
218	ELECTRICAL	SC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	GYP–1
219	MECHANICAL	SC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	GYP–1
220	BOYS RESTROOM	PC–1	CT	P–3/CT	P–1/CT	P–3/CT	P–1/CT	–	–	–	GYP–1
221	GIRLS RESTROOM	PC–1	CT	P–5/CT	P–1/CT	P–5/CT	P–1/CT	–	–	–	GYP–1
222	CLASSROOM	CPT–1/PC–1	RB–1	P–3	P–1/CT	P–2	P–1	PL–1	SS–1	WP–1	ACT–1
223	TEACHER WORKROOM	CPT–2	RB–1	P–6	P–1	P–1	P–1	–	–	–	ACT–1
224	CLOSET	PC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	ACT–2
225	CLOSET	PC–1	RB–1	P–1	P–1	P–1	P–1	–	–	–	ACT–2
226	CLASSROOM	PC–1	RB–1	P–5	P–1/CT	P–4	P–1	PL–1	SS–1	WP–1	ACT–1
227	KILN	SC–1	RB–1	P–1	P–1	P–1	P–2	–	–	WP–1	GYP–1
228	UNISEX TOILET	PC–1	CT	P–1/CT	P–3/CT	P–1/CT	P–1/CT	–	–	–	GYP–1
229	UNISEX TOILET	PC–1	CT	P–1/CT	P–3/CT	P–1/CT	P–1/CT	–	–	–	GYP–1
230	JANITOR	SC–1	RB–1	P–1/FRP–1	P–1/FRP–1	P–1/FRP–1	P–1/FRP–1	–	–	–	GYP–1
231	COLABORATION	PC–1	RB–1	P–1	P–5	P–1/CT	P–5	PL–1	SS–1	WP–1	ACT–1
232	PERISHABLE STORAGE	PC–1	RB–1	P–1/CT	P–1	P–1	P–1	–	–	–	ACT–2
233	COUNSELOR	CPT–2	RB–1	P–1	P–5	P–1	P–1	–	–	–	ACT–1

GENERAL NOTES

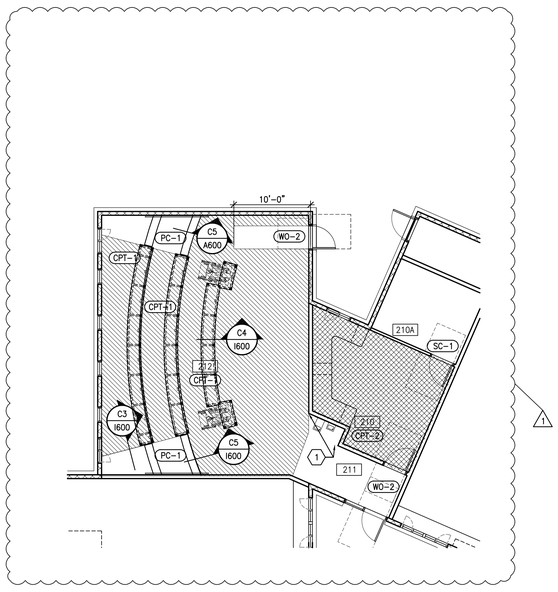
A. ALL CHANGES IN FLOORING MATERIALS TO OCCUR AT MID–THRESHOLD OF INTERIOR DOORS.
B. ALL ACCESS PANELS SHALL BE PAINTED TO MATCH ADJACENT SURFACES IF NOT FACTORY FINISHED TO MATCH.
C. ALL TRANSITION STRIPS TO BE RUBBER TO MATCH RB–1 (UNLESS NOTED OTHERWISE).
D. ALL HOLLOW METAL DOOR AND WINDOW FRAMES TO BE PAINTED TO MATCH ADJACENT WALL UNLESS NOTED OTHERWISE.
E. INTERIOR FLOOR AND WALL TILE GROUT COLOR TO BE MAPEI, COLOR: MIST #12.
D. PROVIDE AND INSTALL NEW WINDOW SHADES AT ALL EXTERIOR WINDOWS. PROVIDE MANUALLY OPERATED SHADES BY MECHOSHADE SYSTEMS AT WINDOWS WITH HEAD HEIGHT OF 7'–2" A.F.F. OR LOWER AND MOTORIZED SHADES AT ALL DORMER WINDOWS, OR APPROVED EQUAL, U.N.O. ARCHITECT TO SELECT FROM MANUFACTURER'S FULL LINE OF COLORS AND MATERIALS.
E. REFER TO FINISH LEGEND FOR CERAMIC TILE (CERAMIC TILE WAINSCOT TO BE 60" A.F.F. UNLESS NOTED OTHERWISE).
F. PLASTIC LAMINATE (PL):
   1. EXPOSED AREAS TO BE PL–1 (UNLESS NOTED OTHERWISE).
   2. COUNTERTOP AND 4" BACKSPLASH TO BE SOLID SURFACE.
   3. ALL CASEWORK INTERIORS INCLUDING ALL SHELVING SURFACES TO RECEIVE WHITE MELAMINE FINISH.
   4. ALL CASEWORK TO RECEIVE (3mm THICK) PVC ACCENT EDGING (COLOR TO MATCH PL–1)
G. PROVIDE 4" SQUARE CERAMIC TILES (PT) BETWEEN LOWER AND UPPER CASEWORK AT NEW CASEWORK WITH SINKS. SEE DETAIL F1/A403 FOR TYPICAL TILE BACKSPLASH ELEVATION.
H. REFER TO PLANS, ELEVATIONS, AND/OR FINISH SCHEDULE FOR LOCATION OF ACCENT PAINT (PT) COLORS AND PLASTIC LAMINATES (PL).
I. AT CERAMIC TILE WAINSCOT, PROVIDE BULLNOSED CORNERS. BULLNOSE AT TOP OF WAINSCOT, OUT/IN CORNERS, AND STRETCHERS, AS REQUIRED TO PROVIDE A CONSISTENT INSTALLATION.
J. PROVIDE BULLNOSED CERAMIC TILE BORDER AROUND MIRROR AND TOILET ACCESSORIES THAT EXTEND ABOVE THE WAINSCOT, TYP.
K. SEE DETAIL F2/A403 FOR TYPICAL TILE WAINSCOT ELEVATION.
L. SEE SHEET G101 FOR ACCESSIBILITY GUIDELINES.
M. ALL CONCEALED BLOCKING, BACKING PANELS, AND ANY OTHER AREAS INDICATED TO INCORPORATE THE USE OF FIRE RETARDANT TREATED WOOD.
N. PICTURE ACCENT TILE CT–7 TO BE EIGHTEEN (18) CUSTOM SCREENED IMAGES AS PROVIDED BY ARCHITECT.
O. PROVIDE DRAWER AND DOOR LOCKS AT ALL CASEWORK LOCATIONS.
P. INTERIOR FINISH MATERIALS TO COMPLY WITH LEED REQUIREMENTS, REFER TO SPECIFICATIONS.
Q. ALL EXTERIOR WOOD TRIM TO BE P–9. CONTRACTOR TO PAINT EXISTING WOOD TRIM AT EXISTING BUILDING PER OWNER DIRECTIVE. THIS EXCLUDES TONGUE AND GROOVE AND EXPOSED HEAVY TIMBER WOOD AT PORTAL.

LEGEND

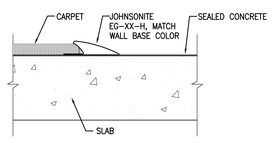
CPT–1
SC–1
CPT–2
PC–1

KEYED NOTES

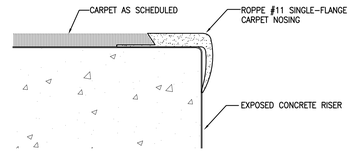
1. CORNER GUARDS.



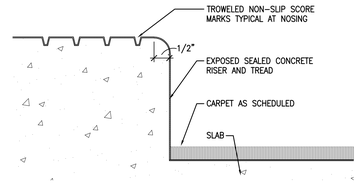
A1 PARTIAL FINISH FLOOR PLAN
SCALE: 1/8" = 1'–0"



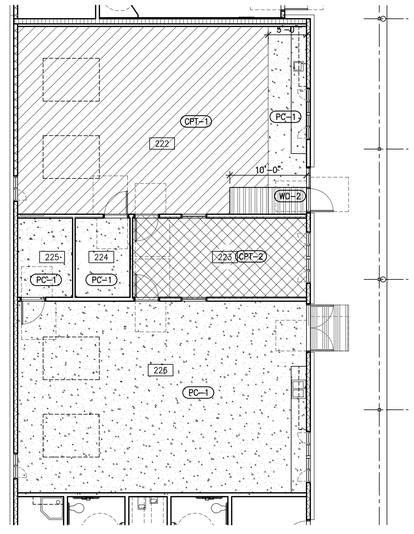
C3 TRANSITION DETAIL
SCALE: 6" = 1'–0"



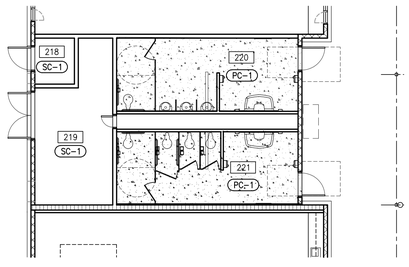
C4 TRANSITION / STAIR DETAIL
SCALE: 6" = 1'–0"



C5 TRANSITION / STAIR DETAIL
SCALE: 6" = 1'–0"



A3 PARTIAL FINISH FLOOR PLAN
SCALE: 1/8" = 1'–0"



A5 PARTIAL FINISH FLOOR PLAN
SCALE: 1/8" = 1'–0"

THE HARTMAN + MAJEWSKI DESIGN GROUP
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STAMP

STATE OF NEW MEXICO
WENDY E.S. CARUSO
NO. 4642
REGISTERED ARCHITECT
08/16/19

PROJECT NAME

COYOTE WILLOW
FAMILY SCHOOL- PHASE 2
7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

REVISIONS

NO.	DATE	DESCRIPTION
1	09/06/19	ADDENDUM 003

DESIGNER:	AM
CHECKED:	WESC
DATE:	08.16.2019
SCALE:	N.T.S.
JOB NO.:	3050
CAD FILE:	3042_I600

SHEET TITLE:
ROOM FINISH LEGEND
ENLARGED PLANS

SHEET NUMBER:
I600

DIFFUSER, REGISTER & GRILLE SCHEDULE

GENERAL NOTES:
GRILLES, REGISTERS, AND DIFFUSERS SHALL BE FABRICATED OF STEEL OR ALUMINUM, AS NOTED. ONLY ALUMINUM SHALL BE USED ON EXHAUST/RETURN REGISTERS OR GRILLES WHERE HEAVY CONCENTRATIONS OF MOISTURE ARE PRESENT (I.E. SHOWER ROOMS, CARTWASHER, ETC.) STEEL GRILLES, REGISTERS, AND DIFFUSERS SHALL BE PROVIDED WITH ZINC PHOSPHATE PRIME COAT AND BAKED WHITE ENAMEL FINISH. ALUMINUM GRILLES, REGISTERS, AND DIFFUSERS SHALL BE FINISHED WITH BAKED WHITE ENAMEL. THE TYPE OF GRILLE, REGISTER, OR DIFFUSER IS SHOWN BY SYMBOL ON THE DRAWINGS. ALL SYMBOLS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE ARCHITECTURAL ROOM FINISH SCHEDULE, WHICH GOVERNS IN THE EVENT OF A CONFLICT. DISCREPANCIES WILL BE CLEARLY NOTED ON THE SUBMITTALS. FURNISH ADDITIONAL T-BAR FRAMING, AS REQUIRED TO SUPPORT CEILING MOUNTED GRILLES, REGISTERS, AND DIFFUSERS. ALL UNITS SHALL BE PROVIDED WITH CONCEALED TYPE FASTENING FRAMES. EQUIPMENT MANUFACTURED BY PRICE, KRUEGER, AND TITUS, ARE ACCEPTABLE. OTHER MANUFACTURERS SHALL BE ACCEPTED BY PRIOR APPROVAL ONLY. (ALL SECURITY GRILLES AND REGISTERS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO BID SUBMITTAL.) GRILLES, REGISTERS, AND DIFFUSERS REQUIRING FIRE RADIATION DAMPER ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS, AT LOCATIONS SHOWN ON THE DRAWINGS.

SYMBOL	MFG'R	MODEL	USE	TYPE	COMMENTS	
S1	TITUS (or equal)	TMS series	SUPPLY DIFFUSER	LAY-IN	CEILING SUPPLY DIFFUSER: STEEL, STAMPED FACE, LAY-IN TYPE FRAME FOR T-BAR CEILING MOUNTING, ROUND NECK, ADJUSTABLE PANEL VANED WITH ADJUSTABLE PATTERN TABS, AND REMOVABLE CORE. TITUS TMS-3; PRICE SCDA; KRUEGER 1400-23, OR APPROVED EQUAL. WHITE POWDER COAT FINISH, OR COLOR AS SELECTED BY ARCHITECT.	
S2	TITUS (or equal)	TMS series	SUPPLY DIFFUSER	GYPSUM BOARD	CEILING SUPPLY DIFFUSER: STEEL, STAMPED FACE, SURFACE TYPE FRAME FOR GYPSUM BOARD CEILING MOUNTING, ROUND NECK, ADJUSTABLE PANEL VANED WITH ADJUSTABLE PATTERN TABS AND REMOVABLE CORE. TITUS TMS-3; PRICE SCDA; KRUEGER 1400-22, OR APPROVED EQUAL. WHITE POWDER COAT FINISH, OR COLOR AS SELECTED BY ARCHITECT.	
R1	TITUS (or equal)	50F series	RETURN GRILLE	LAY-IN	CEILING RETURN OR TRANSFER GRILLE: ALUMINUM CONSTRUCTION, 1/2"x1/2"x1/2" SQUARE EGGCRATE CORE WITH LAY-IN TYPE FRAME FOR T-BAR CEILING MOUNTING AND CONCEALED FASTENING. PRICE 80-TB; KRUEGER EGC-F23, TITUS 50F, OR APPROVED EQUAL.	
R2	TITUS (or equal)	50F series	RETURN GRILLE	GYPSUM BOARD	CEILING RETURN OR TRANSFER GRILLE: ALUMINUM CONSTRUCTION, 1/2"x1/2"x1/2" SQUARE EGGCRATE CORE WITH BORDER/FRAME FOR GYPSUM BOARD CEILING MOUNTING AND CONCEALED FASTENING. TITUS 50F; PRICE 80-TB; KRUEGER EGC-F23, OR APPROVED EQUAL.	
E1	TITUS (or equal)	50F series	EXHAUST GRILLE	GYPSUM BOARD	CEILING RETURN OR TRANSFER GRILLE: ALUMINUM CONSTRUCTION, 1/2"x1/2"x1/2" SQUARE EGGCRATE CORE WITH BORDER/FRAME FOR GYPSUM BOARD CEILING MOUNTING AND CONCEALED FASTENING. TITUS 50F; PRICE 80-TB; KRUEGER EGC-F23, OR APPROVED EQUAL.	

LOUVER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	USE	TYPE	COMMENTS
L1	GREENHECK (or equal)	ESJ-401	WALL LOUVER	SIDEWALL	WALL LOUVER: • HIGH PERFORMANCE, 6063T5 EXTRUDED ALUMINUM CONSTRUCTION, 4" DEEP FLANGED FRAME WITH "J" TYPE DRAINABLE BLADES AT 45 DEG. AND SPACED AT 4" CENTERS, (APPROX.) • ALUMINUM BIRDSCREEN SECURED TO INSIDE OF LOUVER. • SIZES AS SHOWN ON DRAWINGS. • FINISH PER ARCHITECTURAL RECOMMENDATIONS. • AMCA CERTIFIED • GREENHECK MODEL ESJ-401, OR APPROVED EQUAL.

SOUND ATTENUATOR SCHEDULE

SYMBOL	SERVICE	MFGR: PRICE MODEL#:	CENTERLINE LENGTH	AIR FLOW (CFM)	AIR VELOCITY (FPM)	PRESS LOSS (in w.c.)	DYNAMIC INSERTION LOSS GENERATED NOISE 63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
SA-201	[200] CLASSROOM	RM36-1D	36"	+1,250	+918	0.04	4	7	16	32	47	42	26	17
							53	41	35	41	40	38	36	32

- SILENCER INLET AND OUTLET CONNECTIONS SHALL BE EQUAL TO THE DUCT SIZES SHOWN ON THE DRAWINGS.
- ABSORPTIVE SILENCERS SHALL CONSIST OF SOLID STEEL CASINGS, PERFORATED SHEET METAL LINERS, AND ABSORPTIVE ACOUSTIC FIBERGLASS MEDIA AS REQUIRED.
- CONSTRUCTION CLASS 1: 22GA GALVANIZED CASING / 26GA GALVANIZED PERFORATED LINER.
- ACOUSTIC MEDIA: SHALL BE SHOT-FREE INORGANIC GLASS FIBER WITH LONG, RESILIENT FIBERS, BONDED WITH THERMOSETTING RESIN. GLASS FIBER SHALL BE PACKED WITH A MINIMUM 10% COMPRESSION TO ELIMINATE VOIDS AND SETTLING; DENSITY SHALL BE CONSISTENT WITH THAT USED TO GENERATE CATALOGED TEST DATA

RELIEF HOOD SCHEDULE

SYMBOL	GREENHECK MFG'R MODEL NO.	TYPE	CFM	THROAT SIZE	DIMENSIONS L x W x H (in.)	FREE AREA (ft2)	PRESS. DROP (in. w.c.)	THROAT VEL. (fpm)	WEIGHT (lbs.)	
RH-201	WRH	EXHAUST	500	12"x12"	26"x26"x13"	1.0	0.04	500	65	☒ 14" ROOF CURB: MATCH ROOF PITCH/SLOPE ☒ BACKDRAFT DAMPER GRAVITY ☒ BIRDSCREEN ☒ PAINTED PER ARCHITECT

EXHAUST FAN, DIRECT DRIVE SCHEDULE

AMCA CERTIFIED

FURNISH WITH:
- "VARI-GREEN" SPEED CONTROLLER: ECM MOTOR w/ MOUNTED POTENTIOMETER
- THERMOSTAT

SYMBOL	GREENHECK MFG'R (OR APPROVED EQUAL) MODEL NO.	SERVICE	TYPE	DRIVE	CFM	ESP IN. W.G.	FAN RPM	MAX. SOUND LEVEL (SONES)	MOTOR watts	MOTOR volt/ph/hz	WEIGHT (LBS)	ACCESSORIES: BACKDRAFT DAMPER	BELT GUARD	BIRD SCREEN	DISCONNECT SWITCH	ADJUSTABLE V DRIVE	INLET SCREEN	MOTORIZED DAMPER, 120v	NON-FUSED DISC.	ROOF CAP / ROOF JACK	SPECIAL COATING	WALL CAP	VARIABLE SPEED CONTROLLERS	ECM FAN SPEED CONTROLLER
EF-201	CSP-A510-VG	ELEC ROOM [209]	CABINET FAN	DIRECT	400	0.30	1,070	2.0	217	115/1/60	42	●				●								● ●
EF-202	CSP-A510-VG	ELEC ROOM [218]	CABINET FAN	DIRECT	400	0.30	1,070	2.0	217	115/1/60	42	●				●								● ●
EF-203	CSP-A710-VG	KILN ROOM [227]	CABINET FAN	DIRECT	500	0.4	1,080	2.0	325	115/1/60	43	●				●								● ●

CEILING EXHAUST FAN, DIRECT DRIVE SCHEDULE

AMCA CERTIFIED

FURNISH WITH:
- SOLID STATE SPEED CONTROLLER: ECM MOTOR w/ MOUNTED POTENTIOMETER
- CEILING GRILLE

SYMBOL	GREENHECK MFG'R (OR APPROVED EQUAL) MODEL NO.	SERVICE	TYPE	DRIVE	CFM	ESP IN. W.G.	FAN RPM	MAX. SOUND LEVEL (SONES)	MOTOR watts	MOTOR volt/ph/hz	WEIGHT (LBS)	ACCESSORIES: BACKDRAFT DAMPER	BELT GUARD	BIRD SCREEN	DISCONNECT SWITCH	ADJUSTABLE V DRIVE	INLET SCREEN	MOTORIZED DAMPER, 120v	NON-FUSED DISC.	WALL CAP	SPECIAL COATING	VARIABLE SPEED CONTROLLERS	ECM FAN SPEED CONTROLLER
CEF-201	SP-A190	TOILET [228]	CEILING FAN	DIRECT	145	0.30	1,400	2.5	113	115/1/60	25	●								●	●	●	
CEF-202	SP-A190	TOILET [229]	CEILING FAN	DIRECT	145	0.30	1,400	2.5	113	115/1/60	25	●				●				●	●	●	
CEF-203	SP-A190	JANITOR [230]	CEILING FAN	DIRECT	145	0.30	1,400	2.5	113	115/1/60	25	●				●				●	●	●	

ELECTRIC UNIT HEATER SCHEDULE

SYMBOL	QMARK MFG'R (OR APPROVED EQUAL) MODEL NO.	SERVICE	HEATING BTH	HEATING WATTS	FAN WATTS	VOLTAGE V / ph / hz
EUH-201	MW UH5004	MECH ROOM [201]	6,396	1,875	8	208 / 1 / 60
EUH-202	MW UH5004	MECH ROOM [219]	6,396	1,875	8	208 / 1 / 60

MISCELLANEOUS:
☒ LOW VOLT. TRANSFORMER ☒ LOW VOLT. HEATING THERMOSTAT
☒ WALL BRACKET

NOTE :
ALL DISCONNECTS AND LINE VOLTAGE WIRING BY ELECTRICAL CONTRACTOR

COMMENTS
UL APPROVED UNIT HEATER WITH GALVANIZED STEEL CABINET AND EPOXY PAINT FINISH, TUBULAR HEATING ELEMENTS AND ADJUSTABLE AIRFLOW LOUVERS. THE BALL BEARING MOTOR SHALL BE TOTALLY ENCLOSED, WITH INTERNAL THERMAL PROTECTION. PROPELLER SHALL BE OF STEEL, DIRECT DRIVE, AND STATICALLY BALANCED. UNITS SHALL HAVE CONTACTORS, TRANSFORMERS, WALL MOUNTED THERMOSTAT, WALL BRACKET, ETC. FOR A COMPLETE SINGLE POINT CONNECTION.

AIRFLOW MEASURING STATION SCHEDULE

SERVICE	MFG'R	MODEL	VOLTAGE	COMMENTS
TYPICAL AT ERV-201 & ERV-202	EBTRON	GTx116-P+	24VAC	• THERMAL DISPERSION TECHNOLOGY • HIGH SENSOR DENSITY • NIST-TRACEABLE CALIBRATION • %-OF-READING ACCURACY • AIRFLOW AND STATUS ALARM • COMBINATION ANALOG/NETWRK CAPABLE • DUCT MOUNTED SENSORS • REMOTE TRANSMITTER, WITH LCD DISPLAY • INTERFACE WITH BACnet BAS / DDC SYSTEM

WATER SOURCE HEAT PUMP SCHEDULE:

symbol	TRANE mfgr Model Number	Nominal Capacity	EFFICIENCY EER @ AHRI GLHP Full	EFFICIENCY COP @ AHRI GLHP Full	SUPPLY FAN Airflow CFM	SUPPLY FAN Extrnl Static Press in. w.c.	SUPPLY FAN Motor Power HP	FLUID / WATER Flow Rate GPM	COOLING EWT °F	COOLING LWT °F	HEATING EWT °F	HEATING LWT °F	Press Drop ft. H2O	COOLING Total Cooling Capacit MBH	COOLING Sensible Cooling MBH	COOLING EAT db °F	COOLING EAT wb °F	COOLING LAT db °F	COOLING LAT wb °F	Heat Of Rejct MBH	HEATING Total Heating Capacit MBH	HEATING EAT db °F	HEATING LAT db °F	Heat Of Absr MBH	ELECTRICAL Unit Voltage V / hz / ph	ELECTRICAL Total FLA AMPS	ELECTRICAL Min. Circuit Ampacity AMPS	ELECTRICAL Max Fuse or MOCP AMPS
HP-201	EXHF-0364	3 tons	19.1	3.8	1,250	0.5	0.75	8.4	77.0	87.0	45.0	38.7	5.5	33.0	29.5	80.0	62.0	53.7	52.0	40.5	35.5	68.0	99.7	26.3	460 / 60 / 3	9.1	10.5	15.0
HP-202	EXHF-0364	3 tons	19.1	3.8	1,250	0.5	0.75	8.4	77.0	87.0	45.0	38.7	5.5	33.0	29.5	80.0	62.0	53.7	52.0	40.5	35.5	68.0	99.7	26.3	460 / 60 / 3	9.1	10.5	15.0
HP-203	EXHF-0364	3 tons	19.1	3.8	1,250	0.5	0.75	8.4	77.0	87.0	45.0	38.7	5.5	33.0	29.5	80.0	62.0	53.7	52.0	40.5	35.5	68.0	99.7	26.3	460 / 60 / 3	9.1	10.5	15.0
HP-204	EXHF-0302	2.5 tons	18.7	3.7	1,045	0.5	0.5	7.0	77.0	87.0	45.0	38.9	9.3	28.7	26.0	80.0	62.0	52.2	51.5	34.9	28.4	68.0	98.4	21.2	265 / 60 / 1	13.7	16.43	25.0
HP-205	EXHF-0364	3 tons	19.1	3.8	1,250	0.5	0.75	8.4	77.0	87.0	45.0	38.7	5.5	33.0	29.5	80.0	62.0	53.7	52.0	40.5	35.5	68.0	99.7	26.3	460 / 60 / 3	9.1	10.5	15.0
HP-206	EXHF-0424	3.5 tons	18.5	3.9	1,460	0.5	0.75	9.8	77.0	86.8	45.0	38.6	7.9	38.9	35.0	80.0	62.0	53.2	51.9	48.0	41.9	68.0	100.0	31.4	460 / 60 / 3	9.8	11.3	15.0
HP-207	EXHF-0484	4 tons	17.7	3.8	1,670	0.6	0.75	11.2	77.0	87.0	45.0	38.8	8.3	44.3	39.7	80.0	62.0	53.5	51.9	54.9	46.8	68.0	99.3	35.0	460 / 60 / 3	10.5	12.0	15.0
HP-208	EXHF-0484	4 tons	17.7	3.9	1,670	0.6	0.75	11.2	77.0	87.0	45.0	38.8	8.3	44.3	39.7	80.0	62.0	53.5	51.9	54.9	46.8	68.0	99.3	35.0	460 / 60 / 3	10.5	12.0	15.0
HP-209	EXHF-0424	3.5 tons	18.5	3.9	1,460	0.5	0.75	9.8	77.0	86.8	45.0	38.6	7.9	38.9	35.0	80.0	62.0	53.2	51.9	48.0	41.9	68.0	100.0	31.4	460 / 60 / 3	9.8	11.3	15.0
HP-210	EXHF-0604	5 tons	16.3	3.5	1,870	0.5	0.993	14.0	77.0	86.8	45.0	38.7	7.2	54.8	47.7	80.0	62.0	51.5	50.7	68.5	61.5	68.0	104.8	44.4	460 / 60 / 3	14.7	16.7	20.0
HP-211	EXHF-0157	1.25 ton	17.0	3.3	500	0.4	0.33	3.5	77.0	87.0	45.0	39.1	5.6	13.7	12.3	80.0	62.0	53.6	52.0	17.1	14.4	68.0	98.9	10.4	265 / 60 / 1	7.29	8.9	15.0

MISCELLANEOUS ITEMS TO BE FURNISHED BY MECHANICAL CONTRACTOR :
- ☒ HIGH EFFICIENCY HORIZONTAL
- ☒ COPPER HEAT EXCHANGER
- ☒ SEE PLANS FOR AIR DISCHARGE CONFIGURATION
- ☒ EXTENDED TEMPERATURE RANGE PACKAGE
- ☒ 24V CONTROLS
- ☒ REFRIGERANT: R-410A
- ☒ 2" FILTERS MERV 8
- ☐ SMOKE DETECTOR
- ☒ ENHANCED SOUND ATTENUATION PACKAGE
- ☐ STANDARD PIPING CONFIGURATION
- ☐ DIGITAL MANUAL & AUTO CHANGEOVER 7 DAY PROGRAMMABLE: 3-HEAT/2-COOL, DDC THERMOSTAT
- ☒ CONDENSATE PUMP PROVIDED WITH EACH UNIT
- ☒ ECM SUPPLY FAN MOTOR
- ☒ INTERFACE WITH BUILDING AUTOMATION SYSTEM: BACnet PROTOCOL

NOTE : ALL DISCONNECTS AND LINE VOLTAGE WIRING BY ELECTRICAL CONTRACTOR

- ☒ PROVIDE AND INSTALL PRE-MANUFACTURED HOSE PIPING KITS AS MANUFACTURED BY HAYS FLUID CONTROLS, "3-SERIES". HOSE KITS TO INCLUDE:
  - ISOLATION VALVE(S): BALL VALVE, BOTH SUPPLY AND RETURN.
  - STRAINER.
  - AUTOMATIC FLOW CONTROL VALVE, ("MESURFLO"), ON RETURN LINE.
  - SOLENOID VALVE: 24V, ATC VALVE ON RETURN LINE.

LINE SIZE PER THE FOLLOWING SCHEDULE:

FLOW:	LINE SIZE:
UP TO 7.5GPM:	3/4"
7.6 GPM TO 12.0GPM:	1.0"
12.1 GPM TO 20.0GPM:	1-1/4"

NOTE:
UNITS SELECTED AT 5,300 FT. ELEVATION

ENERGY RECOVERY VENTILATOR SCHEDULE:

INDOOR MOUNTED, VERTICAL ORIENTATION: HORIZONTAL SUPPLY AIR AND EXHAUST AIR

SYMBOL	RENEWAIRE mfg'r (OR APPVD EQUAL) MODEL NO.	SUPPLY FAN Air Flow CFM	SUPPLY FAN Extrnl Static Press in. W.C.	SUPPLY FAN Fan Speed RPM	SUPPLY FAN Motor VFD HP	SUPPLY FAN Motor FLA AMPS	SUPPLY FAN Filter Rating	EXHAUST FAN Air Flow CFM	EXHAUST FAN Extrnl Static Press in. W.C.	EXHAUST FAN Fan Speed RPM	EXHAUST FAN Motor w/ VFD HP	EXHAUST FAN Motor FLA AMPS	EXHAUST FAN Filter Rating	OUTSIDE AIR SUMMER db °F	OUTSIDE AIR SUMMER wb °F	OUTSIDE AIR WINTER db °F	OUTSIDE AIR WINTER wb °F	SUPPLY AIR SUMMER db °F	SUPPLY AIR SUMMER wb °F	SUPPLY AIR WINTER db °F	SUPPLY AIR WINTER wb °F	EXHAUST AIR SUMMER db °F	EXHAUST AIR SUMMER wb °F	EXHAUST AIR WINTER db °F	EXHAUST AIR WINTER wb °F	HEAT RECOVERY COOLING MBH	HEAT RECOVERY HEATING MBH	EFFECTIVENESS SUMMER %	EFFECTIVENESS WINTER %	ELECTRICAL (UNIT) Unit Voltage V / hz / ph	ELECTRICAL (UNIT) Min. Circuit Ampacity AMPS	ELECTRICAL (UNIT) Max Fuse or MOCP AMPS	PHYSICAL L x W x H in.	PHYSICAL WEIGHT LBS.
ERV-201	HE3XINV	2,550	0.75	1,632	3.0	4.24	MERV-13 2"	2,300	0.75	1,536	3.0	4.24	MERV-8 2"	96.0	62.0	13.0	11.0	82.3	60.1	50.1	40.3	75.0	62.3	70.0	54.4	67.5	128.8	54.0	67.0	460 / 60 / 3	10.5	15.0	51 x 62 x 62	900
ERV-202	HE3XINV	2,550	0.75	1,632	3.0	4.24	MERV-13 2"	2,300	0.75	1,536	3.0	4.24	MERV-8 2"	96.0	62.0	13.0	11.0	82.3	60.1	50.1	40.3	75.0	62.3	70.0	54.4	67.5	128.8	54.0	67.0	460 / 60 / 3	10.5	15.0	51 x 62 x 62	900

STANDARD FEATURES:
- EXTERIOR HOUSING CONSTRUCTED OF GALVANIZED STEEL
- STATIC PLATE HEAT AND HUMIDITY CROSS-FLOW PLATE HEAT EXCHANGER - CORE CONSTRUCTED OF ALUMINUM
- TWO BLOWER AND MOTOR ASSEMBLIES MOUNTED WITH NEOPRENE ISOLATORS:
- TEFC PREMIUM EFFICIENCY MOTORS.
- ON-BOARD VARIABLE FREQUENCY DRIVES (VFDs) - BOTH AIRSTREAMS.
- MOTOR STARTERS.
- NON-FUSED DISCONNECT.
- 24V VAC TRANSFORMER / RELAY PACKAGE.
- FORWARD CURVED STEEL WHEELS
- BALL BEARING MOTORS
- FAN SHAFTS IN PERMANENTLY LUBRICATED BEARINGS
- CORROSION RESISTANT FASTENERS
- INTERNALLY LINED WITH GALVANIZED SHEET METAL CREATING A DOUBLE WALL
- INSULATED WITH 1 IN. 3# DENSITY INSULATION
- NON-FUSED DISCONNECT
- DOOR INTERLOCKING DISCONNECT SWITCH
- INTERNALLY MOUNTED CONTROL CENTER WITH MOTOR STARTERS, 24 VAC CONTROL TRANSFORMERS, CONTROL CIRCUIT FUSING
- MOTOR MOUNTED ON ADJUSTABLE PLATE
- ADJUSTABLE MOTOR PULLEYS UNDER 10 HP
- STATIC FREE BELTS
- LISTED TO UL-1995

MISCELLANEOUS ITEMS FURNISHED WITH EQUIPMENT:
- HORIZONTAL SUPPLY AND EXHAUST DUCT CONNECTIONS
- FROST CONTROL: TIMED EXHAUST
- OUTDOOR AIR FILTER - 2" MERV 13,
- RETURN AIR FILTER(S) - 2" MERV 8,
- OUTSIDE AIR DAMPERS - INSULATED MOTORIZED LOW LEAKAGE
- EXHAUST DAMPERS - INSULATED MOTORIZED LOW LEAKAGE
- SUPPLY FAN CONTROL: CONSTANT VOLUME
- EXHAUST FAN CONTROL: CONSTANT VOLUME
- DIRTY FILTER SENSOR: OUTDOOR AIR
- HINGED ACCESS DOORS
- SPARE BELTS
- SPARE FILTER SET 1 SUPPLY, 1 RETURN
- INTERFACE WITH DDC CONTROLS: NETWORK PROTOCOL - BACnet TO BE COORDINATED WITH CONTROL CONTRACTOR.

NOTE:
UNITS SELECTED AT 5,300 FT. ELEVATION

NOTE :
ALL LINE VOLTAGE WIRING BY ELECTRICAL CONTRACTOR

SPLIT-SYSTEM: HEAT PUMP SCHEDULE

service	room/ service	TRANE (mfg'r) model no.	INDOOR BLOWER UNIT (DUCTLESS) cfm	ext. static press.	COOLING number of coil rows	COOLING total BTH	HEATING total BTH	ELECTRICAL fuse (A)	ELECTRICAL motor RLA	OUTDOOR CONDENSING UNIT tag	TRANE (mfg'r) model no.	ELECTRICAL voltage V/H/Z/PH	ELECTRICAL MCA	ELECTRICAL motor LRA	SYSTEM SEER	SYSTEM ELECTRICAL voltage V/H/Z/PH	SYSTEM ELECTRICAL max. overload prot
AC-201	TELECOM [210A]	4MXW8524A (wall mounted)	590	NA	2	21,400	23,000	3.15	0.24	CU-201	4MXW8524A	208/60/1	16.0	18.5	18.0	208/60/1	20A

MISCELLANEOUS ITEMS/OPTIONS TO BE FURNISHED WITH EQUIPMENT :
- ☒ LOW AMBIENT CAPACITY DOWN TO 0°F CAPABILITY
- ☒ REFRIGERANT IS R-410a
- ☒ FACTORY REFRIGERATION LINE SET
- ☒ ELECTRIC EXPANSION VALVE
- ☒ FAN AND MOTOR VIBRATION ISOLATORS
- ☒ WIRED CONTROLLER (WALL MOUNTED)
- ☒ FILTER SECTION
- ☒ ISO 9002 STANDARD
- ☒ POWER CONNECTION IS AT OUTDOOR UNIT. INDOOR UNIT DRAWS POWER FROM OUTDOOR UNIT.
- ☒ ELECTRICAL WIRING/CONNECTION BETWEEN UNITS BY ELECTRICAL CONTRACTOR.
- ☒ FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
- ☒ FURNISH WITH CONDENSATE PUMP, SEPARATE 120V POWER

NOTE : ALL DISCONNECTS AND LINE VOLTAGE WIRING BY ELECTRICAL CONTRACTOR

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4700 Lincoln Road, NE | Suite 101 | Albuquerque, NM 87109 | 505.761.3100

STAMP

BRIAN ARNOLD NEW MEXICO 14466 REGISTERED PROFESSIONAL ENGINEER
08.16.2019

PROJECT NAME

COYOTE WILLOW
FAMILY SCHOOL- PHASE 2
7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

REVISIONS

NO.	DATE	DESCRIPTION
1	09.10.19	ADDENDA #003

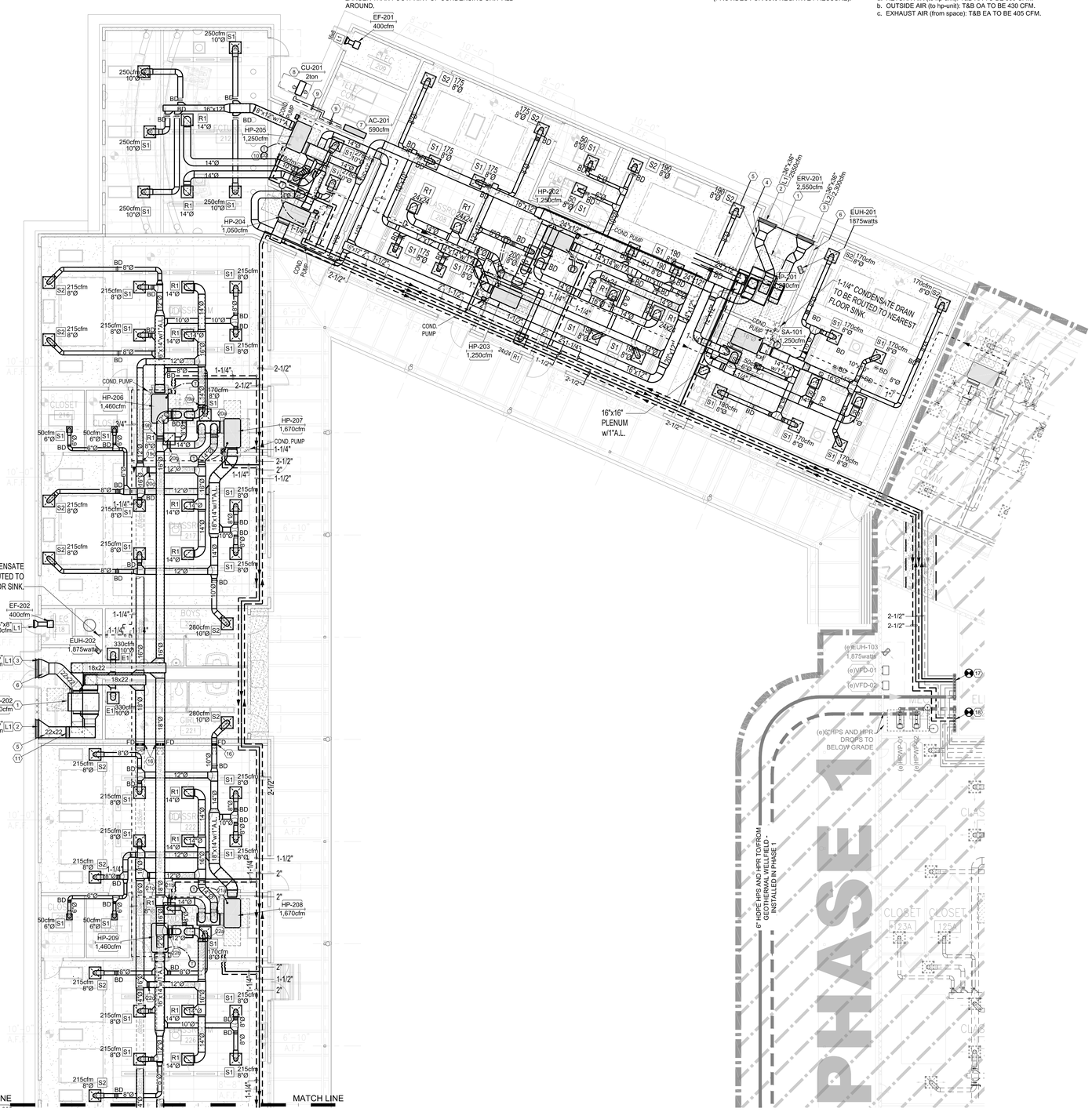
DESIGNER:	DT
CHECKED:	BA
DATE:	08.16.2019
SCALE:	none
JOB NO.:	3050
CAD FILE:	3050_M001

SHEET TITLE:
MECHANICAL EQUIPMENT SCHEDULES

SHEET NUMBER:
M002

KEYED NOTES: ⓧ

1. ENERGY RECOVERY VENTILATOR (ERV). PROVIDE, AND INSTALL ERV ON 4" THICK CONCRETE HOUSEKEEPING PAD. PLAN-VIEW OF HOUSEKEEPING PAD SHALL BE 4" LARGER THAN FOOTPRINT OF ERV-ALL AROUND.
2. OUTSIDE AIR INTAKE LOUVER. PROVIDE WITH BIRDSCREEN.
3. EXHAUST AIR LOUVER. PROVIDE WITH BIRDSCREEN.
4. OUTSIDE AIRFLOW MONITORING STATION, INSTALLED ON INTAKE AIR DUCTWORK, CONNECT TO BAS/DDC SYSTEM. SEE SHEET M501.
5. OUTSIDE AIR INTAKE DUCT: 22"x22" - TRANSITION DUCTWORK AS REQUIRED, AND CONNECT TO INTAKE LOUVER, AND ERV INTAKE CONNECTION. INSTALL FLEXIBLE CONNECTION AT ERV.
6. ERV EXHAUST AIR DUCT: 22"x22" - TRANSITION DUCTWORK AS REQUIRED, AND CONNECT TO EXHAUST LOUVER, AND ERV EXHAUST CONNECTION. INSTALL FLEXIBLE CONNECTION AT ERV.
7. SPLIT-SYSTEM AC UNIT-EVAPORATOR: INSTALL HIGH ON WALL. INSTALL AC UNIT PER ALL MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS.
8. SPLIT-SYSTEM AC UNIT CONDENSING UNIT: INSTALL ON 4" THICK CONCRETE HOUSEKEEPING PAD. PLAN-VIEW OF HOUSEKEEPING PAD SHALL BE 4" LARGER THAN FOOTPRINT OF CONDENSING UNIT-ALL AROUND.
9. REFRIGERANT PIPING: INSTALL PIPING ABOVE CEILING TOWARDS CONDENSING UNIT. ROUTE REFRIGERANT PIPING DOWN IN EXTERIOR WALL. EXTEND PIPING OUT OF WALL AT 12" ABOVE ADJACENT GRADE. INSULATE BOTH REFRIGERANT LIQUID AND SUCTION LINES WITH 1-1/2" THICK CLOSED-CELL INSULATION, ARMAFLEX (mfgr), OR EQUAL. SEAL PENETRATION THRU WALL TO BE SEALED WATER TIGHT.
10. CARBON-DIOXIDE SENSOR: CONNECT TO BAS / DDC SYSTEM, SEE SHEET M501.
11. OUTSIDE AIRFLOW MONITORING STATION, INSTALLED ON INTAKE AIR DUCTWORK - IN VERTICAL RISE. CONNECT TO BAS/DDC SYSTEM. SEE SHEET M501.
12. 6"Ø EXHAUST DUCT THRU WALL, WITH WALL CAP. PROVIDE WITH BACKDRAFT DAMPER.
13. 12"x12" EXHAUST DUCT UP THRU ROOF TO RELIEF HOOD RH-201. PROVIDE / INSTALL DAMPER (GRAVITY). PENETRATION THRU ROOF WALL SHALL BE SEALED WATER TIGHT.
14. OWNER PROVIDED KILN VENT EXHAUST: ROUTE 6"Ø EXHAUST DUCT UP THRU ROOF, WITH CONTRACTOR PROVIDED ROOF VENT CAP. ROOF PENETRATION SHALL BE SEALED WATER-TIGHT.
15. OPERATION OF KILN ROOM [227]: INSTALL MOTORIZED DAMPER IN EXHAUST DUCT AT KILN ROOM [227]. EXHAUST AIR FROM KILN ROOM IS CONNECTED TO ERV-202 EXHAUST. SEQUENCE OF OPERATION(S):
    a. NORMAL OPERATION OF KILN ROOM [227]: -
    - KILN EQUIPMENT IS ENABLED "OFF."
    - SUPPLY AIR TO KILN ROOM IS SUPPLIED AT 330CFM (from HP-210).
    - MOTORIZED DAMPER IN EXHAUST DUCT SHALL BE ENABLED "OPEN". EXHAUST AIR FROM KILN ROOM SHALL T&B'd TO BE 350CFM, (PROVIDES 6% NEGATIVE PRESSURE).
    - EXHAUST FAN EF-203 SHALL BE ENABLED "OFF".
    b. WHEN KILN EQUIPMENT IS ENABLED TO BE "ON":
    - SUPPLY AIR TO KILN ROOM IS SUPPLIED AT 330CFM (from HP-210).
    - WHEN KILN IS "ON", AND IF TEMPERATURE IN KILN ROOM [227] RISES ABOVE 78°F, (USER ADJUSTABLE), EXHAUST FAN EF-203 SHALL BE ENABLED TO BE "ON".
    - MOTORIZED DAMPER INSTALLED IN EXHAUST DUCT SHALL BE ENABLED TO BE "CLOSED".
    - EXHAUST FAN EF-203 IS SPECIFIED TO BE 500CFM, SUPPLY AIR TO ROOM IS 330CFM, (PROVIDES FOR 33% NEGATIVE PRESSURE).
16. FIRE DAMPER w/FUSIBLE LINK. PROVIDE ACCESS DOOR.
17. EXISTING HPS MANIFOLD (INSTALLED IN PHASE 1 PROJECT). CONNECT TWO (2)-2-1/2" HPS LINES TO SPARE CONNECTIONS, AND ROUTE AS SHOWN.
18. EXISTING HPR MANIFOLD (INSTALLED IN PHASE 1 PROJECT). CONNECT TWO (2)-2-1/2" HPR LINES TO SPARE CONNECTIONS, AND ROUTE AS SHOWN.
19. HP-206: INSTALL BALANCING DAMPER AND T&B PER THE FOLLOWING -
    a. RETURN AIR (to hp-unit): T&B RA TO BE 860 CFM.
    b. OUTSIDE AIR (to hp-unit): T&B OA TO BE 430 CFM.
    c. EXHAUST AIR (from space): T&B EA TO BE 405 CFM.
20. HP-207: INSTALL BALANCING DAMPER AND T&B PER THE FOLLOWING -
    a. RETURN AIR (to hp-unit): T&B RA TO BE 1,040 CFM.
    b. OUTSIDE AIR (to hp-unit): T&B OA TO BE 630 CFM.
    c. EXHAUST AIR (from space): T&B EA TO BE 250 CFM.
21. HP-208: INSTALL BALANCING DAMPER AND T&B PER THE FOLLOWING -
    a. RETURN AIR (to hp-unit): T&B RA TO BE 1,040 CFM.
    b. OUTSIDE AIR (to hp-unit): T&B OA TO BE 630 CFM.
    c. EXHAUST AIR (from space): T&B EA TO BE 250 CFM.
22. HP-209: INSTALL BALANCING DAMPER AND T&B PER THE FOLLOWING -
    a. RETURN AIR (to hp-unit): T&B RA TO BE 860 CFM.
    b. OUTSIDE AIR (to hp-unit): T&B OA TO BE 430 CFM.
    c. EXHAUST AIR (from space): T&B EA TO BE 405 CFM.
23. HP-210: INSTALL BALANCING DAMPER AND T&B PER THE FOLLOWING -
    a. RETURN AIR (to hp-unit): T&B RA TO BE 1,010 CFM.
    b. OUTSIDE AIR (to hp-unit): T&B OA TO BE 370 CFM.
    c. EXHAUST AIR (from space): T&B EA TO BE 350 CFM.
24. HP-211: INSTALL BALANCING DAMPER AND T&B PER THE FOLLOWING -
    a. OUTSIDE AIR (to hp-unit): T&B OA TO BE 40 CFM.
25. 6"Ø EXHAUST DUCT, UP THRU ROOF TO ROOF VENT CAP. ROOF PENETRATION SHALL BE SEALED WATER-TIGHT.



M2 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

M1 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

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BRIAN ARNOLD NEW MEXICO 14466 REGISTERED PROFESSIONAL ENGINEER
08.16.2019

PROJECT NAME

COYOTE WILLOW FAMILY SCHOOL- PHASE 2

7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

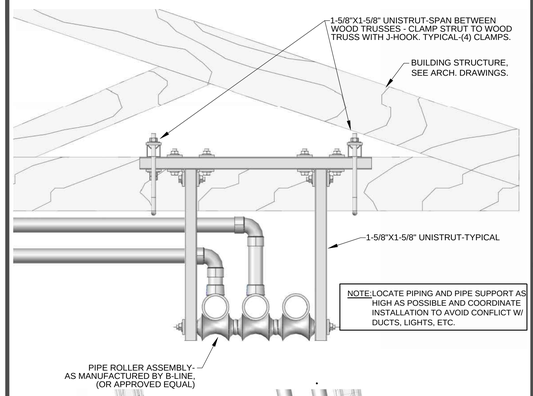
REVISIONS

NO.	DATE	DESCRIPTION
1	09.10.19	ADDENDA #003

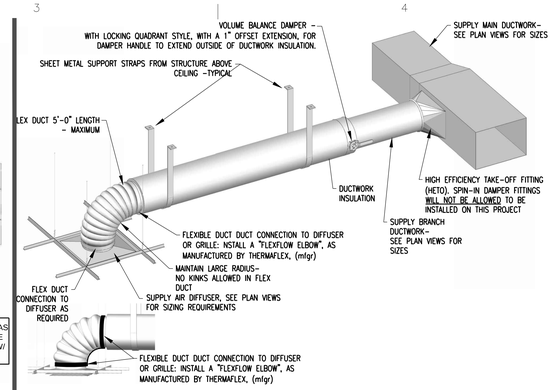
DESIGNER:	JS
CHECKED:	BA
DATE:	08.16.2019
SCALE:	1/8" = 1'-0"
JOB NO.:	3050
CAD FILE:	3050-M101

SHEET TITLE:
MECHANICAL - HVAC FLOOR PLAN

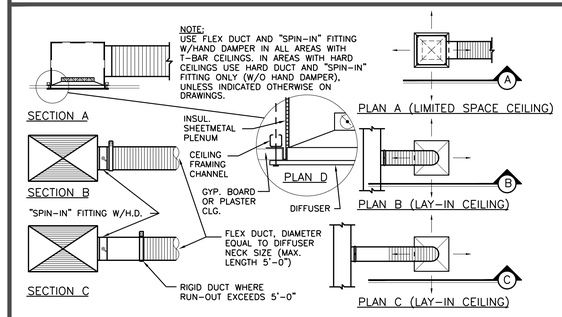
SHEET NUMBER:
M101



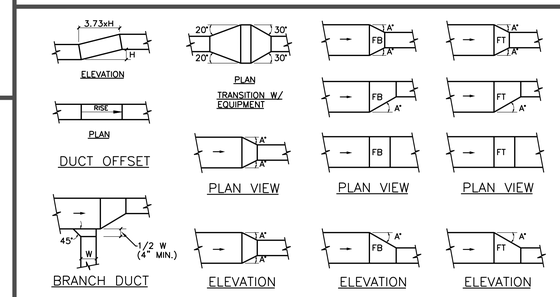
M8 PIPE SUPPORT DETAIL
SCALE: NONE



M4 DUCTWORK & LAY-N CEILING DIFFUSER DETAIL
SCALE: NONE

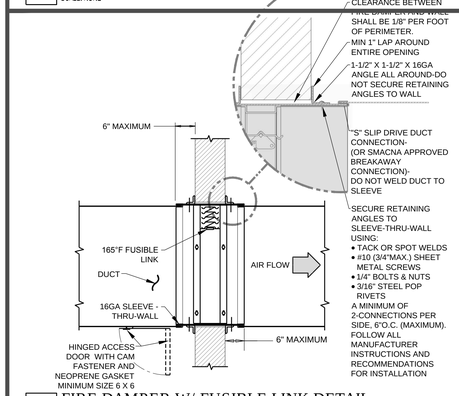


M5 DIFFUSER CONNECTION DETAIL
SCALE: NONE



NOTES:
1. ANGLE A = 30° WHEN AIR FLOWS IN DIRECTION OF ARROW (SUPPLY AIR).
2. ANGLE A = 15° WHEN AIR FLOWS IN OPPOSITE DIRECTION OF ARROW (R.A. OR EXHAUST).

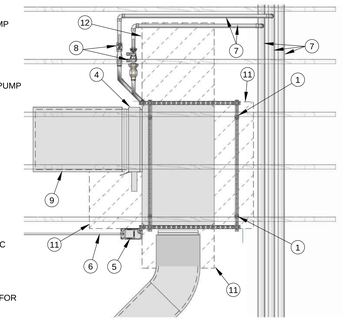
M6 LOW VELOCITY DUCT FITTINGS DETAIL
SCALE: NONE



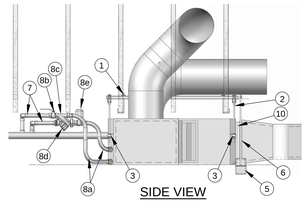
M9 FIRE DAMPER W/ FUSIBLE LINK DETAIL
SCALE: NONE

DETAIL KEYED NOTES:

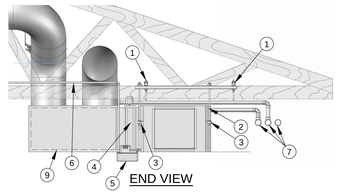
1. 1-5/8"X1-5/8" UNISTRUT-SPAN BETWEEN WOOD TRUSSES - CLAMP STRUT TO WOOD TRUSS WITH J-HOOK. TYPICAL-(4) CLAMPS.
2. 1/2" HANGER ROD, (4 REQ'D).
3. RUBBER GROMMET VIBRATION ISOLATORS; (4 REQ'D).
4. DUCTED FILTER RACK SECTION-FURNISHED WITH EACH HEAT PUMP UNIT.
5. CONDENSATE PUMP.
6. CONDENSATE DRAIN TYPE 'L' COPPER w/1" INSULATION.
7. TYPE 'L' COPPER TUBE HPS & HPR.
8. PRE-MANUFACTURED HOSE KIT:
   a. FLEXIBLE HOSES - BRAIDED STAINLESS STEEL.
   b. ISOLATION BALL VALVE - WITH UNION - TYP..
   c. STRAINER.
   d. AUTOMATIC BALANCING VALVE.
   e. ELECTRIC SOLENOID VALVE; ON/OFF.
9. RETURN AIR PLENUM AT INLET TO HEAT PUMP:
   a. FABRICATE USING SHEETMETAL WITH 1" INTERIOR ACOUSTIC LINER
   b. 30"wide X 40"long X 22"deep.
10. FLEXIBLE DUCT CONNECTION AT INLET AND DISCHARGE - TYP.
11. MAINTAIN ALL MANUFACTURER RECOMMENDED CLEARANCES FOR SERVICE.
12. MAINTAIN 30"x42" CLEAR SPACE FOR ELECTRICAL CONNECTION.



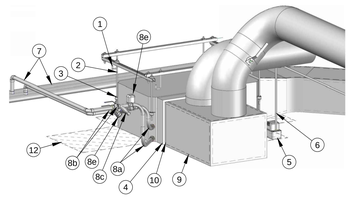
PLAN VIEW



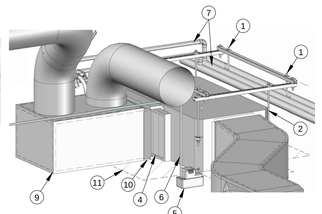
SIDE VIEW



END VIEW

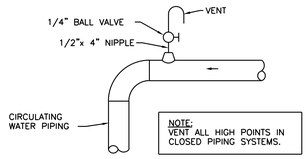


ISOMETRIC VIEW

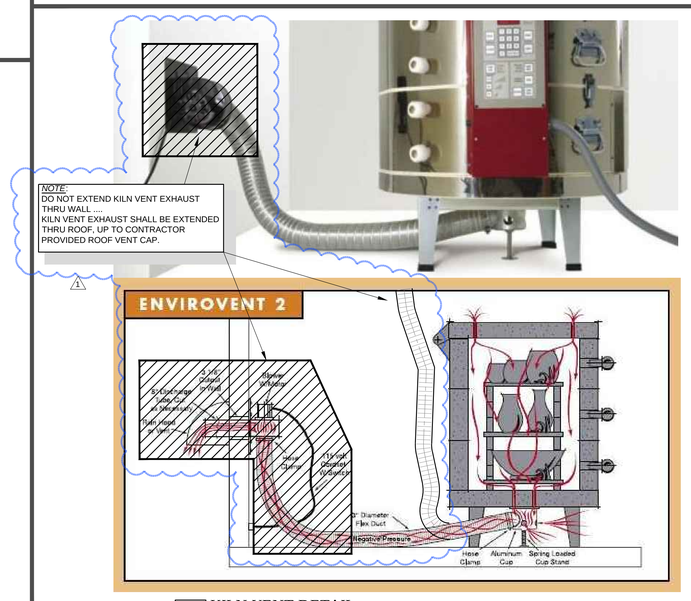


ISOMETRIC VIEW

M1 HEAT PUMP INSTALLATION DETAIL
SCALE: NOT TO SCALE



M2 MANUAL AIR VENT DETAIL
SCALE: NONE



M3 KILN VENT DETAIL
SCALE: NONE

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BRIAN ARNOLD NEW MEXICO 14466 REGISTERED PROFESSIONAL ENGINEER
08.16.2019

PROJECT NAME

COYOTE WILLOW FAMILY SCHOOL- PHASE 2
7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

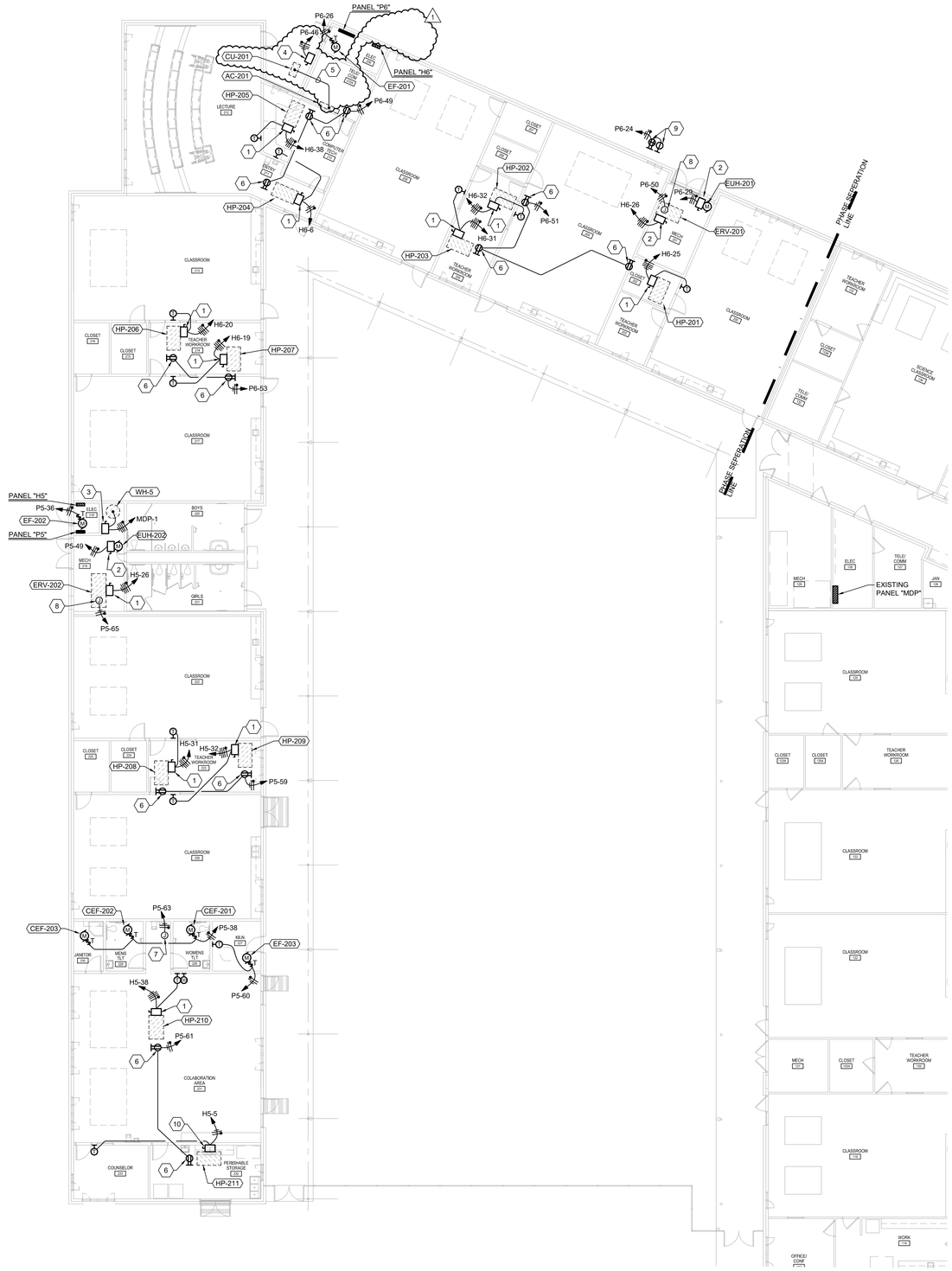
REVISIONS

NO.	DATE	DESCRIPTION
1	09.10.19	ADDENDA #003

DESIGNER:	DT
CHECKED:	BA
DATE:	08.16.2019
SCALE:	none
JOB NO.:	3050
CAD FILE:	3050 M601

SHEET TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M601



A2 **POWER PLAN**
SCALE: 3/32" = 1'-0"

KEYED NOTES

1. 600V-30A-3P-4W PLUS SOLID NEUTRAL, FUSIBLE DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER. USE #10 CONDUCTORS THROUGHOUT CIRCUIT.
2. 240V-30A-2P-4W PLUS SOLID NEUTRAL, FUSIBLE DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER. USE #10 CONDUCTORS THROUGHOUT CIRCUIT.
3. 600V-100A-3P-4W-PLUS SOLID NEUTRAL, FUSIBLE DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER. USE #4 CONDUCTORS THROUGHOUT CIRCUIT.
4. 240V-30A-2P-3W PLUS SOLID NEUTRAL, RAIN TIGHT, FUSIBLE DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER.
5. 3#12 AND 1#12 GROUND IN 3/4" CONDUIT FOR POWER CONNECTION. EXTEND AND ADDITIONAL 1/2" CONDUIT WITH PULLWIRE FOR CONTROLS INTERCONNECTION.
6. RECEPTACLE FOR CONNECTION OF CONDENSATE PUMP (M) FOR ASSOCIATED HEAT PUMP UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
7. JUNCTION BOX FOR CONNECTION OF MOTORIZED DAMPER. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
8. JUNCTION BOX FOR POWER CONNECTION TO DUCT SMOKE DETECTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
9. PROVIDE AND INSTALL (1) GFCI DUPLEX RECEPTACLE AND (1) SIMPLEX RECEPTACLE FOR CONNECTION OF 'HOT BOX' COORDINATE LOCATION WITH LANDSCAPE CONTRACTOR PRIOR TO ROUGH-IN.
10. 600V-30A-3P-4W PLUS SOLID NEUTRAL, FUSIBLE DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER.

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DAVID D. RUSSELL 6729 REGISTERED PROFESSIONAL ENGINEER 8/19/19

19265

PROJECT NAME

COYOTE WILLOW FAMILY SCHOOL- PHASE 2

7125 IRVING BOULEVARD NW
ALBUQUERQUE, NEW MEXICO 87114

REVISIONS

NO.	DATE	DESCRIPTION
1	09/09/19	ADDENDUM #3

DESIGNER:	RW
CHECKED:	DDR
DATE:	08.16.2019
SCALE:	3/32" = 1'-0"
JOB NO.:	3050
CAD FILE:	-

SHEET TITLE:
POWER PLAN

SHEET NUMBER:
E103