State of Utah

GARY R. HERBERT
Governor

GREGORY S. BELL
Lt. Governor

Department of Administrative Services
KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management
DAVID G. BUXTON
Director

ADDENDUM NO. 2

Date: February 13, 2012

To: Contractors

From: Darrell Hunting – Project Manager

Reference: New Tooele Applied Technology College
Utah College of Applied Technology – Tooele, Utah
DFCM Project No. 11064280

Subject: **Addendum No. 2**

Pages	Addendum Cover Sheet	1	page
	Architect's Specifications and Drawings	110	pages
	Total	111	pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

2.1 SCHEDULE CHANGES: There are no Project Schedule changes.

2.2 GENERAL ITEMS:

2.2.1 This is a tax exempt project. A tax exemption certificate will be provided to the awarded contractor.

2.2.2 See attached Architect's Specifications and Drawings.

TATC
Tooele Applied Technology College
A UCAT Campus

METHODSTUDIO INC.

DFCM

Division of Facilities Construction and Management
4110 State Office Building Salt Lake City, UT 84114
Telephone (801) 538-3018 FAX (801) 538-3267

ADDENDUM NO. 2
February 10th, 2012

Tooele Applied Technology College New Building
Tooele, Utah

The original specifications and drawings, dated January 20th, 2012 for the project referenced above are amended in the Addendum No. 2, dated February 10th 2012.

Receipt of this addendum shall be acknowledged by inserting its number and date in the space provided on the bid form.

This addendum consists of the following:

ARCHITECTURAL ADDENDUM ITEMS:

AD2-A01 Specification 083610, Paragraph 2.2.8:
8.Provide standard duty center mount operator with brake.

AD2-A02 Specification 034713, Paragraph 1.5.F.4:
4. Sealant Samples to be applied to joints for approval by architect. Include sealant sample in tilt panel mock-up.

AD2-A03 Sheet AS501, Detail 23 and 8
Change signage lettering to aluminum in lieu of steel

AD2-A04 Sheet AS502, Detail 13,Detail 4
Change signage lettering to aluminum in lieu of steel, change section reference to 10/AS501, delete detail 4/S502

AD2-A05 Sheet AE101 Plan 1
Add column callout at grid A and 4 reference detail 23/AE503, add column callout at grid A and 5, reference detail 21/AE503

AD2-A06 Sheet AE111 Plan 1 and General Note
Room A122 at south wall extend base and paint to corners, Tile added to floor in room A115, carpet hatch extended into closet in room A125, polished sealed concrete hatch extended into mannequin closet in corridor A100. Change General Finish Floor Plan Notes #2 to not used.

AD2-A07 Sheet AE112 Plan 1 and FINISH LEGEND
Room C103 wall finish clarification “seal tilt panel up to 8’-0” AFF, painted (PNT-9) gypsum wall board to deck.” Delete hatch for transition strip on the FINISH LEGEND.

AD2-A08 Sheet AE113 Plan 1 and FINISH LEGEND
Room C121 wall finish clarification “seal tilt panel up to 8’-0” AFF, painted (PNT-9) gypsum wall board to deck.” Delete hatch for transition strip on the FINISH LEGEND.

AD2-A09 Sheet AE121 Plan 1

Add column callout at grid A and 4 reference detail 22/AE503, add column callout at grid A and 5, reference detail 22/AE503 similar reverse.

AD2-A10 Sheet AE123 Plan 1
Add window type callout SF53 to short windows adjacent to window types SF48 along grid 4.

AD2-A11 Sheet AE140 Roof Plan 1, Roof Enlarged Plan 2, Enlarged Roof Plan 3
Clarified taper insulation and gutter locations, updated detail references and finishes, see attached sheet.

AD2-A12 Sheet AE151, AE152, AE153, AE161, AE162, AE163 RCP PLAN LEGEND
Ceiling Type H-Wood Wall Covering -WC1, (see finish schedule on AE611) on gyp. bd on suspend metal stud ceiling.
Ceiling Type J-Metal soffit on suspend metal stud substructure.
Ceiling Type K-Exterior stained and sealed 6" cedar tongue and groove on exterior sheathing on suspended metal stud substructure.

AD2-A13 Sheet AE162 Level 2 RCP Area '2'
Adjust ceiling height in main entry vestibule room B101A to 10'-0" above level 2 finish floor.

AD2-A14 Interior elevation sheets AE210 thru AE221 GENERAL NOTES
Added note- #6 Proved blocking @ all attachment locations; including but not limited to casework, shelving, equipment & furniture. See 27/AE901 for typical.

AD2-A15 Sheet AE215 Keynote Legend, Elevations 7,9,13,14,15,16
Clarified dimensions, added accent tile call out, misc. adjustments to key notes.
See attached sheet.

AD2-A16 Sheet AE216 Elevations 7,8,13,14 and Keynote Legend
Added fully concealed work surface supports @ 3'-0" O.C. to countertops @ elevations 7 and 8. Added wall tag 87 to walls at elevations 12 and 13.
Added Keynote 87- Fabric Wall covering (WC-2).

AD2-A17 Sheet AE220 Elevations 1,2,3,5,6,11,13,17,18
Clarified dimensions and cabinet depths, updated back splash keynotes, update grain direction and returns for wood wall covering. See attached sheet.

AD2-A18 Sheet AE221 Elevations 5,6,7,8, 10,11,13
Update tile locations and dimensions, clarified accessory locations. See attached sheet.

AD2-A19 Sheet AE301 Partial Building Section 21
Added callout to exterior curtain wall head, reference 7/AE506.

AD2-A20 Sheet AE304 Wall Section 15, Clerestory 29
Clerestory Section 29 add base of wall call out to clerestory walls, ref 7/AE501 similar.
Wall Section 15 add curtain wall head detail to exterior wall ref. 30/AE505.

AD2-A21 Sheet AE305 Wall Section 20
Change soffit call out at level 2 to 19/AE501 similar.

AD2-A22 Sheet AE412 Panels 21,22 and 30
Added or adjusted tilt panel penetrations. See attached sheet.

AD2-A23 Sheet AE413 Panels 31,34,37,40 and 41
Added or adjusted tilt panel penetrations. See attached sheet.

AD2-A24 Sheet AE414 Panel 50
Change overall panel width to 23'- ½".

AD2-A25 Sheet AE501 Details, 3,4,5,7,10,12,15,19
Clarifications to detail components. See attached sheet.

AD2-A26 Sheet AE502 Details, 2,6,7,10,11
Clarifications to detail components and notes. See attached sheet.

AD2-A27 Sheet AE503 Details, 1,11,16,21,22,23,27,28,29
Clarifications to detail components, dimensions and notes. See attached sheet.

AD2-A28 Sheet AE505 Details, 4,5,13,25,27,30
Clarifications to detail components, dimensions and notes. Added detail 27. See attached sheet.

AD2-A29 Sheet AE506 Details, 1,2,3,4,5,6,7,8,9,10,11
Clarifications to detail components, dimensions and notes. Added details, 8,9,10. See attached sheet.

AD2-A30 Sheet AE601 Window schedule
Updates and clarifications to window schedule and blinds. See attached sheet.

AD2-A31 Sheet AE602 Elevations 4,10,11 & Glazing Schedule on AE602, AE603, AE604, AE605, AE606
Elevation 4 on AE602, delete upper spandrel panel. Elevations 10/AE602 and 11/AE602 add jamb detail reference 28/AE505. For the glazing schedule on all window elevation sheets change type mark BM to type to Aluminum Infill Panel.

AD2-A32 Sheet AE603 Elevations 3,4,8,29,30
Window dimension, components and detail reference clarifications. See attached sheet.

AD2-A33 Sheet AE604 Elevations 11,20,29,30
Window dimension, components and detail reference clarifications. Added window elevations 29 and 30. See attached sheet.

AD2-A34 Sheet AE611
Miscellaneous updates to Interior Finish Legend, Room Finish Schedule and Accessory Schedule. See attached sheet.

AD2-A35 Sheet AE701 Stair Section 2 and General Note AE701, AE702, AE703
Sheet AE 701 add landscape rock in stair planter to 1'-0" A.F.F. AE701 Change General Elevator Note to read as just General Notes, add General notes to AE702 and AE703. Add item #2 to general notes: All exposed steel to be painted U.N.O.

AD2-A36 Sheet AE702 B100 Stair Section 2, Typical Guardrail Section 3
Add landscape rock in stair planter to 1'-0" A.F.F. at stair section 2. Add note to detail 8: solid continuous stained an sealed cheery wood cap, finish selected by architect.

AD2-A37 Sheet AE901 Detail 16
Change detail 16 title to 1.

AD2-A38 Sheet AE911 Details 1,7,8
Clarifications to casework finishes, materials, spacing and anchorage. See attached sheet.

AD2-A39 Specification 042000, Paragraph 2.3.B.1:
Change minimum average net-area compressive strength to 2800 psi.

AD2-A40 Specification 087100 and 088000
Specification section 088000-Glazing currently starts on page 30 of Section 087100-Door Hardware. Change section 08800-Glazing to be its own section and the footer should read 088000 to match the index.

STRUCTURAL ADDENDUM ITEMS:

AD1-S01 Sheet SB103
Added detail callout at clouded location.

AD1-S02 Sheet SB504
Modified notes on D1/SB504 and D2/SB504.

AD1-S03 Sheet SF101
Added beams at clouded locations.See attached sheet.

AD1-S04 Sheet SF102 See attached sheet.
1. Added detail callouts.
2.Modified entry canopy steel deck.
3. Clarified deck callouts.

AD1-S05 Sheet SF121
Clarified detail callout at trusses.

AD1-S06 Sheet SF123
Added concrete house keeping pad at clouded area. See attached sheet.

MECHANICAL AND PLUMBING ADDENDUM ITEMS:
DIVISION – 22 & 23
GENERAL
1. Even though Commissioning is listed at the end of each of the specifications, it is really considered start
up or final check out.
2. Penetrations through suspended ceiling tiles (such as fire sprinklers) shall allow for free movement of 1-
inch in all horizontal direction, or provide rigid braces as required by IBC 1613.8 (as amended by the State of Utah.)

DRAWINGS

AD2-M01 SHEET - ME001
1. Add line types SGR (Solar Glycol Return) and SGS (Solar Glycol Supply).

AD2-M02 SHEET - ME002
1. Modify general notes. See attached.

AD2-M03 SHEET - ME501
1. Remove note requiring turning vanes from return air transfer duct detail 3/ME501.

AD2-M04 SHEET - ME501, ME503, ME504 & PE501
1. Remove all seismic restraint details. Details ME501(1,2,11) and ME503(1,8,18) and ME504(6,7,anchor list) and PE501(13) shall be provided by the contractor via differed submittal.

AD2-M05 SHEET - ME504
1. Detail 2/ME504 has been marked 'NOT USED.'

AD2-M06 SHEET - ME505
1. Modify exhaust fan detail 1/ME505 to include a motorized backdraft damper in lieu of a gravity backdraft damper.
2. Details 4/ME505 and 7/ME505 have been marked 'NOT USED.'

AD2-M07 SHEET - ME601
1. Add notes 3-6 to the dust collector schedule. See attached.

AD2-M08 SHEET - ME602
1. Modify Grille, Register, Diffuser schedule to mark RG-2 and L-1 as 'NOT USED.'

AD2-M09 SHEET - ME603
1. Add note 9 to rooftop air handler schedule as follows: Unit shall be mounted on 24" roof curb. See attached
2. Change note reference 6 to 9 for AH-1 (ie. RTU-1 shall have a 24'' curb in lieu of a 14'' curb). Page 2 of 5
3. Add callout 'AH-1' to refer to the air handler schematic on the right and 'AH-2, 3, 4' to the air handler schematic on the left.

AD2-M10 SHEET - ME604
1. Revise performance requirements of split AC unit AC-5/CU-5. See attached.

AD2-M11 SHEET - ME605
1. Revise hot water heating system schematic. See attached.

AD2-M12 SHEET - MH111
1. Add return air transfer sound boots and openings in the walls above the ceiling. See attached.
2. Add various detail callouts and notes for clarification. See attached.
3. Add supply ductwork to VRV-35A and VRV-35B as shown. See attached.

AD2-M13 SHEET - MH112
1. Add notes clarifying what mechanical equipment is to be installed in Shelled Lab C101, Receiving C102A, and Shelled Classroom C102 under the current contract. See attached.
2. Modify duct layout and dimensions of outdoor air duct in cafeteria B111, Media B112, Enrollment B120. See attached.
3. Modify note callouts in Construction Technology Lab and Classroom. See attached

AD2-M14 SHEET - MH113

1. Revise ventilation and exhaust air duct system serving welding and diesel shops/classrooms. See attached.
2. Modify sidewall return grille airflow rate serving Corridor C100. See attached.
3. Add various detail callouts and notes for clarification. See attached.

AD2-M15 SHEET - MH121

1. Add return air transfer sound boots and openings in the walls above the ceiling. See attached.
2. Add various detail callouts. See attached.

AD2-M16 SHEET - MH122

1. Modify ventilation duct and exhaust air duct layout connected to ERV-1. See attached.
2. Add various detail callouts and notes for clarification. See attached.

AD2-M17 SHEET - MH123

1. Rotate radiant heater IH-5 to place exhaust flue as far as possible from the outdoor air intake of AH-2. See attached.
2. Add various detail callouts and notes for clarification. See attached.

AD2-M18 SHEET - MH130

1. Add exhaust fan EF-16 to serve the construction technology lab. See attached.
2. Add various detail callouts and notes for clarification. See attached.

AD2-M19 SHEET - MH401

1. Add various detail callouts and notes for clarification. See attached.
2. Add keyed notes 146, 147, and 148. See attached.

AD2-M20 SHEET - MP111

1. Add various detail callouts and notes for clarification. See attached.
2. Add keyed note 95 and 114. See attached.

AD2-M21 SHEET - MP112

1. Add various detail callouts and notes for clarification. See attached.
2. Add keyed note 114. See attached.

AD2-M22 SHEET - MP113

1. Add various detail callouts and notes for clarification. See attached.
2. Add keyed notes 49 and 95. See attached.

AD2-M23 SHEET - MP121

1. Add various detail callouts and notes for clarification. See attached.
2. Add keyed notes 85, 114, 116, 147, and 150. See attached.

AD2-M24 SHEET - MP122

1. Add various detail callouts and notes for clarification. See attached.
2. Add keyed notes 148 and 152. See attached.

AD2-M25 SHEET - MP123

1. Add various detail callouts and notes for clarification. See attached.
2. Add callout for AC-5 in IT Workroom C204. See attached.
3. Add keyed notes 148 and 150. See attached.

AD2-M26 SHEET - PE502

1. Make revisions shown on details 1, 3, 6, and 7. See attached drawing.

AD2-M27 SHEET - PL103

1. Revise pipe sizing and notes as shown. See attached drawing.

AD2-M28 SHEET - PL111

1. Remove extra vent line as shown. See attached drawing.

AD2-M29 SHEET - PL112

1. Add pipe size to gas piping and revise piping layout as shown. See attached drawing.

AD2-M30 SHEET - PL113

1. Add pipe size to gas piping and domestic water piping, add trench drain call outs and revise keynote 101 as shown. See attached drawing.
2. Add keynote 4 next to grid lines M and 1. Add keynote 101 next to grid line L and 4. See attached drawing.

AD2-M31 SHEET - PL121

1. Add pipe sizes to rain water piping as shown. See attached drawing.

AD2-M32 SHEET - PL122

1. Add equipment call outs to infrared heaters, sizes to domestic piping capped for future and sizes on rain water piping. See attached drawing.

AD2-M33 SHEET - PL123

1. Add equipment call outs to infrared heaters, and revise keynote locations as shown. See attached drawing.

AD2-M34 SHEET - PL130

1. Modify roof drain call outs as shown. See attached drawing.
2. Solar Panel Array Size: The array shall an approximate 25-foot by 6-foot print on the roof. Alternate manufacturer's will differ. Coordinate size and attachment with roofing trades, general contractor, and commissioning agent.

AD2-M35 SHEET - PL401

1. Add pipe sizes in Locker Shower B229, B231. See attached drawing.
2. Remove extra vent piping in Toilet A124. See attached drawing.
3. Remove extra detail call out in Fire Riser Room A130. See attached drawing.

AD2-M36 SHEET - PL402

1. Add pipe sizes in Boiler C203, Pump C202. See attached drawing.
2. Add pipe sizes in Women's B105 and Men's B106. See attached drawing.

SPECIFICATIONS

AD2-M37 SECTION - 211000 (Water Based Fire Suppression), 233713 (Diffusers); 235739 (VRV); 238126 (Split)

1. General Note 2 above applies to all sections. As a special reminder, the above sections shall comply with IBC 1613.8 accordingly and shall allow for 1-inch movement in horizontal directions or shall be provided with rigid braces.

AD2-M38 SECTION - 230900

1. Remove Johnson Controls and Integrated Controls & Elec. Add D&L Electric Control Company from Part 1.6 B. Approved manufacturers are therefore as follows:
A. Atkinson Electronics, Inc – Talon – JACE-AX or Niagra-AX
B. Utah Controls, Inc – TAC – JACE-AX or Niagra-AX
C. D&L Electric Control Company – Honeywell – JACE-AX or Niagra-AX
D. Wasatch Controls – Honeywell – JACE-AX or Niagra-AX
2. Part 1.3 is not used.
3. The following shall be added to the Basis of Design in part 1.6-A: The graphics pages shall include proper labeling of rooms and areas by name or number.
4. Part 2.3-E-9 add email notification to alarm actions.
5. Part 2.6-I shall include auto log off as part of the system security.
6. Part 3.6 shall be deleted.
7. Add "The contractor shall furnish labour and certified calibrated test apparatus required for demonstration." to Part 3.18-A.
8. Add "The commissioning Agent of Owner's Representative shall be present to observe and review the demonstration testing. Commissioning Agent shall provide test criteria." To Part 3.18-A-2.
9. Add "Training materials shall be provided to the Commissioning Agent for review." To Part 3.20.

10. Add “Contractor shall provide documentation of training that includes date when training was given, duration of training session, trainer’s name, and names of persons that attended session.” To Part 3.20.

AD2-M39 SECTION - 233300

1. Part 2.8 C shall read as follows: Door: Double-wall, galvanized, sheet metal construction with insulation fill and thickness, and number of hinges and locks as indicated for duct pressure class. Include vision panel where indicated. Include 1-by-1-inch butt hinge and cam latches.

AD2-M40 SECTION - 235216

1. Part 3.4 B-2 shall read as follows:
Leak Test: Perform hydrostatic test as described in specification section 232113 Hydronic Piping, Part 3.8 B. Repair leaks and retest until no leaks exist.

AD2-M41 SECTION - 232113

1. Add note “P” to Part 3.3. The note shall read as follows: Manual air vents shall be installed at all high points in all piping systems.

AD2-M42 SECTION - 230993

1. Part 1.4-B shall read as follows: This fan system serves areas in both levels of area 1 in the building, and shall operate during occupied hours to maintain minimum ventilation requirements.

AD2-M43 SECTION - 230594

1. Add “Please include a description of the system test configuration under which the test is performed. Such as ‘Minimum Outside Air’” to part 3.19-F.

AD2-M44 SECTION - 237325

1. Fan wall cabinet wall thickness shall be 3” in lieu of 4”.

PRIOR APPROVALS

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the
provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda.

Manufacturers, trade names and products shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its
respective parts.

Item Manufacturer Comments

Fanwall Air Handler Temtrol Approved
Fanwall Air Handler Haakon Approved

ELECTRICAL ADDENDUM ITEMS:

Specifications;

AD2-E01 Specification Section 262413 Switchboards

1. Delete paragraph 2.4(C) – Feeder Ammeters.

Drawings:

AD2-E02 Sheet EP111:

2. Add additional circuit for HVAC controls near grids 2.5 and B.5. Circuit to 1LB3-1.
3. Change conduit and conductor callout number on circuit 1ELA-25 in Fire Riser room A130 from 1 to 4.

AD2-E03 Sheet EP112**:**

1. Add circuiting to grinding dust collector near grids 1 and K: conduit, conductor and disconnect per equipment schedule. Provide 120V control circuit from 1LA1-27.

AD2-E04 Sheet EP113:

1. Delete air compressor ACP-1 and circuiting near grids 1 and M.

AD2-E05 Sheet EP121:

1. Add panel 2LB3 in Electrical room B217.

AD2-E06 Sheet EP123:

1. Circuiting to mechanical equipment and receptacles between grids 1to 4 and L to M. Refer to attached drawing EP123.

AD2-E07 Sheet EP402:

1. Add drinking fountain GFCI receptacle near grids 3 and I.

AD2-E08 Sheet EP403:

1. Add drinking fountain GFCI receptacle near grids 3 and L.

AD2-E09 Sheet EP601:

1. Motor control center MCCA has been updated with mechanical loads.
2. Panels 1HA1, 1HA4, 1HA5, 1HB1 and 2HB1 have had feeder breakers, feeders and panel names corrected.
3. Increase panel 1HDPA to 1000A bus and increase its feeder and feeder breaker to 1000A. Decrease transformer T1A from 300kVA to 225 kVA and increase transformer T1B from 225kVA to 300kVA. Feeder breakers, load breakers and primary and secondary feeders have been sized accordingly.
4. Panel 1LBK has been clarified as a 72 space single section panel.
5. Add panel 2LB3 and 2LA1.
6. Refer to attached drawing EP601.

AD2-E10 Sheets EP603, 604 and 605:

1. The electrical equipment schedule has been updated. Refer to attached drawings EP603, EP604 and EP605.

AD2-E11 Sheets EP606, EP607, EP 608 and EP609:

1. Panel schedules have been updated and panels 2LA1 and 2LB3 have been added.
2. Refer to attached sheets EP606, EP607, EP 608 and EP609.

AD2-E12 Sheet EL111:

2. Lighting and circuiting has been updated on whole sheet. Refer to attached drawing EL111.

AD2-E13 Sheet EL112:

1. Lighting and circuiting has been updated on whole sheet. Refer to attached drawing EL112.

AD2-E14 Sheet EL113:

1. Lighting and circuiting has been updated on whole sheet. Refer to attached drawing EL113.

AD2-E15 Sheet EL121:

1. Lighting and circuiting has been updated on whole sheet. Refer to attached drawing EL121.

AD2-E16 Sheet EL122:

1. Lighting and circuiting has been updated on whole sheet. Refer to attached drawing EL122.

AD2-E17 Sheet EL123:

1. Lighting and circuiting has been updated on whole sheet. Refer to attached drawing EL123.

AD2-E18 Sheet EL501:

1. New sheet EL501 Lighting Details and Schematics has been added to the drawings and is attached.

AD2-E19 Sheet EL601:

1. Lighting fixture types AS-9, CM-40, CX-1, EDF-33, EDX-2, E, ET, G-7D, G-13D, LED-2, OE-29, and UC-10 have been added to the fixture schedule.
2. Type ET transfer devices are part of bid alternate #7. If bid alternate #7 is accepted, all type E battery packs may be deleted; include credit for deleting type E in bid alternate.
3. All fixtures with F2T8 lamps shall have .71BF ballasts. Refer to specification section 265100.
4. Fixture types DX-1, DX-2 and DX-3 shall be 3500Kelvin color temperature.
5. Fixture types S-1 and S-3 shall have wire guards.
6. Refer to attached drawing EL601.

AD2-E20 Sheet EJ111:

1. Update rough in per the added detail for the Control Room. See attached sheet EJ111.
2. Add Screen control switch in A126 and A127.
3. Updated Screen Size in A125.

AD2-E21 Sheet EJ112:

1. Update monitor size in Cafeteria B111 to 'M70'. Monitor is to be pole mounted from the ceiling deck.
2. Mounting of 'T42' is to be with architect prior to installation.
3. Add floor box 'FBAV' in Shelled Space. Verify exact mounting prior to installation.

AD2-E22 Sheet EJ113:

1. Add floor box 'FBAV' in Welding Classroom. Verify exact mounting prior to installation.

AD2-E23 Sheet EJ121:

1. Add Floor box 'FBAV' ' in Lab A201 and IT A207. Verify exact mounting prior to installation.

AD2-E24 Sheet EJ601:

1. Add rough in for Sim Room A120 per the attached Sheet.
2. Add rough in for the Bookstore/Cafeteria per the attached Sheet.
3. Update thee equipment list per the attached sheet.
4. Add 'SC' to the classroom AV raceway riser diagram.

AD2-E25 Sheet ET111:

1. Add data jack at table in Medical Assisting Lab A104.

AD2-E26 Sheet ET112:

1. Add data jack in SS VP B126 on the project south wall.
2. The data jack in elevator B117 should be a solid triangle.
3. Delete conduit and cable tray between grid lines 3 and 4. In Shelled Classroom C102 and Construction Tech Classroom C104 provide 2 each 3" conduits stubbed from the accessible ceiling space to the cable tray on the floor above.

AD2-E27 Sheet ET113:

1. Delete conduit and cable tray between grid lines 3 and 4. In CE&R Classroom C124 provide 3 each 3" conduits stubbed from the accessible ceiling to IT Workroom C204 above.

AD2-E28 Sheet ET121:

1. Change all half shaded data triangles to solid triangles.
2. Provide a space between the server cabinets and the 2 post data racks on Detail #2.

AD2-E29 Sheet ET122:

1. Change all half shaded data triangles to solid triangles.

AD2-E30 Sheet ET601:

1. Update riser diagrams, rough-in schedule and notes per the attached sheet.

AD2-E31 Sheet TA001:

1. Update equipment list per the attached sheet.

AD2-E32 Sheet TA002:

1. Update cable schedule per the attached sheet.

AD2-E33 Sheet TA501:

1. Update details per the attached sheet.

AD2-E34 Sheet TA601:

1. Update details per the attached sheet.

AD2-E35 Sheet TT001:

1. Update equipment list per the attached sheet.

AD2-E36 Sheet TT501:

1. Update details per the attached sheet.

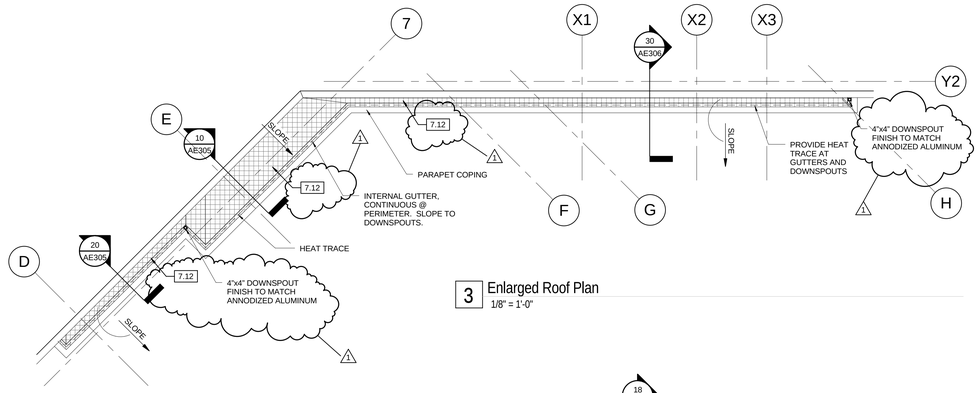
AD2-E37 Sheet TT601:

1. Update riser and notes per the attached sheet.

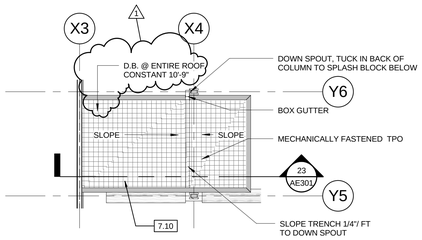
KITCHEN ADDENDUM ITEMS:

AD2-K01 Specification 114000, part 4

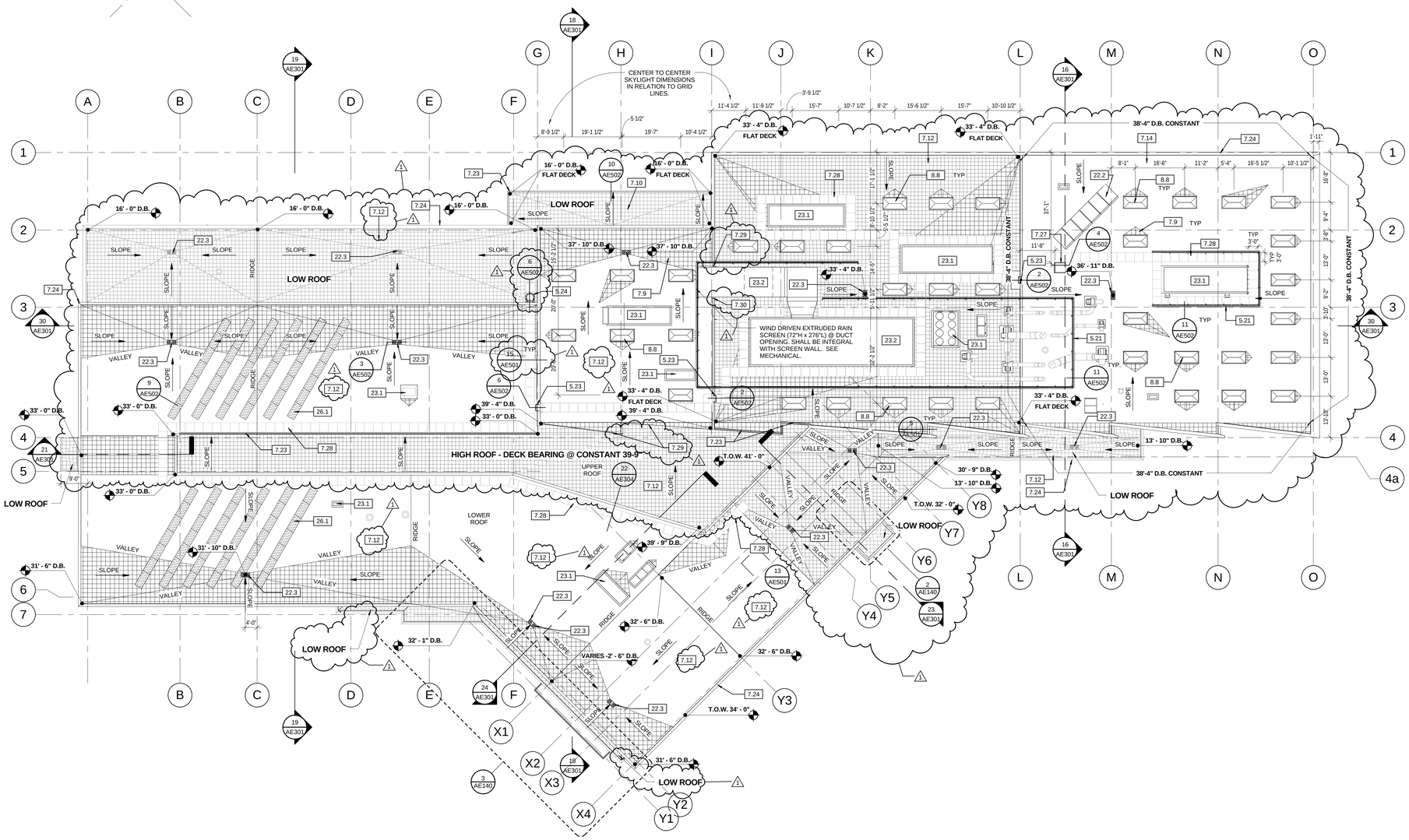
Added itemized list of equipment to specifications pages 15-38. See Section 11400 Foodservice equipment attachment, Part 4.



3 Enlarged Roof Plan
1/8" = 1'-0"



2 Roof Enlarged Plan
1/8" = 1'-0"



1 Roof Plan
1/16" = 1'-0"

north

KEYNOTE LEGEND

5.21	ALUMINUM MECHANICAL SCREEN. SEE SPECIFICATIONS.
5.23	METAL ROOF LADDER
5.24	METAL ROOF LADDER WITH CAGE
7.9	TPO-SINGLE PLY MEMBRANE ON RIGID INSULATION CRICKET, MIN OF 1/4" PER FOOT AT VALLEY.
7.10	MECHANICALLY FASTENED TPO-SINGLE PLY MEMBRANE ON 2" MINIMUM RIGID INSULATION, 1/4" SLOPE MINIMUM TO DRAINS.
7.12	MECHANICALLY FASTENED TPO-SINGLE PLY MEMBRANE ON 5" MINIMUM RIGID INSULATION. 1/4" SLOPE MINIMUM TO DRAINS
7.14	MECHANICALLY FASTENED TPO-SINGLE PLY MEMBRANE ON 7" RIGID INSULATION, 1/4" SLOPE MINIMUM TO DRAINS.
7.23	ALUMINUM GUTTER
7.24	PARAPET CAP FLASHING
7.27	3-0" X 3-0" ROOF HATCH
7.28	3'-0" X 3'-0" FLEXIBLE ROOF WALKWAY PAD. SEE SPECIFICATIONS
7.29	RUN AND LAP MEMBRANE OVER TOP OF WALL. ADHERE TO VERTICAL SURFACES AS NEEDED. PROVIDE COVER BOARD AS NEEDED.
7.30	PROVIDE OPENING IN PARAPET FOR MECHANICAL AIR HANDLER. PROVIDE STANDARD FLASHING ON EACH SIDE OF OPENING.
8.8	4'-0" X 8'-0" UNIT SKYLIGHT
22.2	SOLAR PANEL. SEE MECHANICAL
22.3	ROOF DRAIN LOCATION. SEE PLUMBING DRAWINGS FOR PIPING. FOR MORE INFORMATION SEE ARCHITECTURAL DETAILS.
23.1	ROOF TOP UNIT. SEE MECHANICAL
23.2	AIR HANDLER. SEE MECHANICAL
26.1	PHOTOVOLTAIC ARRAY ON STANDS, SEE ELECTRICAL

ROOF LEGEND

CRICKET TO BE FORMED WITH SPECIFIED RIGID INSULATION AND TO SLOPE 1/4" PER FOOT IN VALLEY TOWARDS ROOF DRAIN.

GENERAL ROOF PLAN GENERAL NOTES

1	CRICKET AT ALL MECHANICAL ITEMS, SKYLIGHTS, ROOF HATCHES. 1/4" PER FOOT BACKSLOPE MINUMUM.
2	SEE DETAILS 1/AE502 AND 3/AE502 FOR TYPICAL PIPE FLASHING.
3	SEE BUILDING AND WALL SECTIONS FOR ADDITIONAL ROOF DETAILS.
4	ALL GUTTER AND DOWNSPOUT SYSTEMS TO BE FACTORY PAINTED TO MATCH ANNODIZED ALUMINUM STOREFRONT FINISH
5	PROVIDE DOWNSPOUTS FORM HIGH ROOF GUTTERS TO ROOF BELOW. SHEET DRAIN.
6	SEE 7/AE502 FOR TYPICAL MECHANICAL CURB DETAIL

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

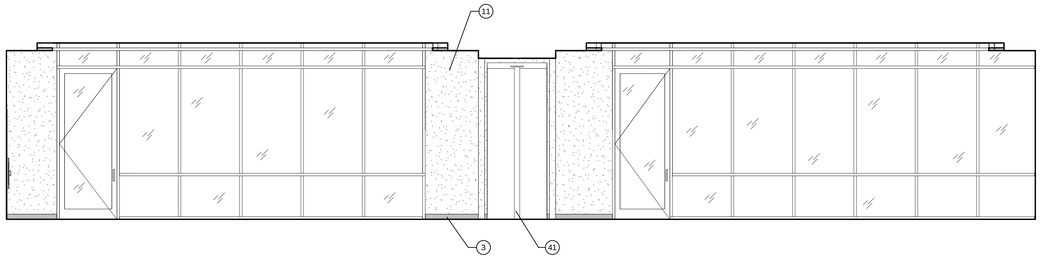
project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012

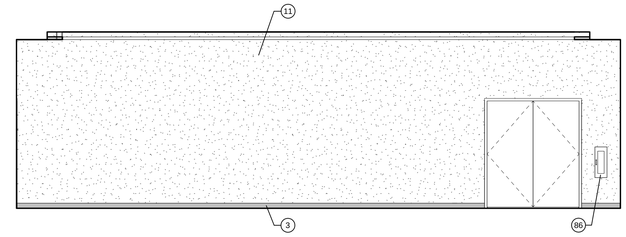
Roof Plan

sheet:
AE140

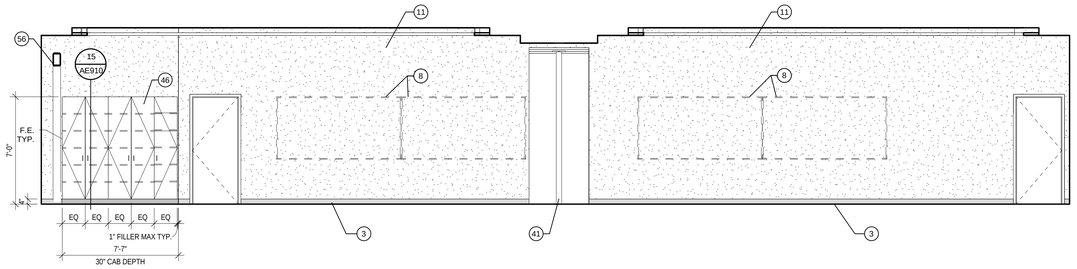
100% Construction Documents



2 B103 East Multipurpose Classroom
1/4" = 1'-0"



1 B103 North Multipurpose Classroom
1/4" = 1'-0"



4 B103 West Multipurpose Classroom
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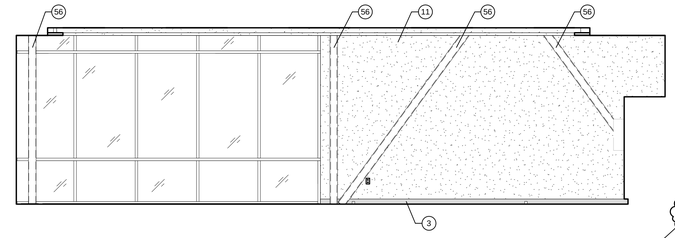

3 B103 South Multipurpose Classroom
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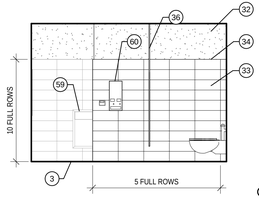
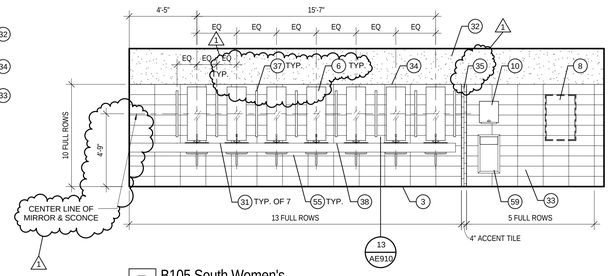


8 B105 West Women's
1/4" = 1'-0"



7 B105 South Women's
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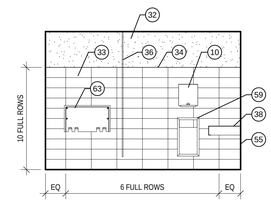
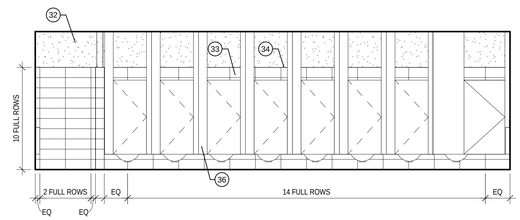
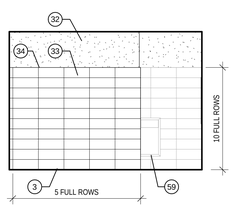


6 B105 East Women's
1/4" = 1'-0"

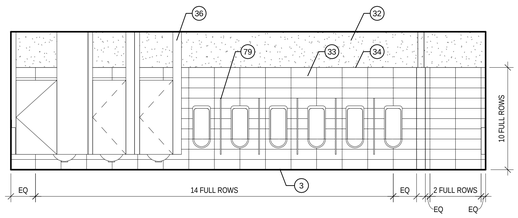


5 B105 North Women's
1/4" = 1'-0"

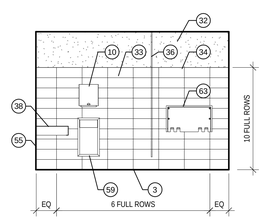
NOTE: PROVIDE SANITARY NAPKIN DISPOSALS IN ALL WOMEN'S STALLS. PROVIDE TOILET PAPER DISPENSERS, AND TOILET SEAT COVER PROTECTORS IN ALL STALLS. PROVIDE GRAB BARS IN 'ADA' AND AMBULATORY STALLS. PROVIDE COAT HOOKS @ BACK OF STALL DOORS.



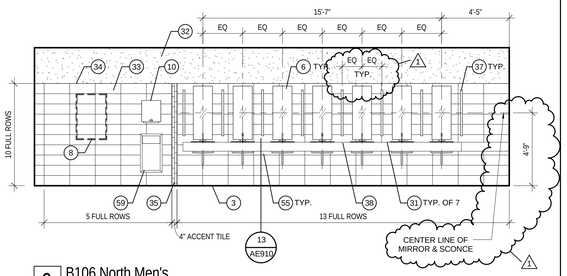
12 B106 West Men's
1/4" = 1'-0"



11 B106 South Men's
1/4" = 1'-0"



10 B106 East Men's
1/4" = 1'-0"



9 B106 North Men's
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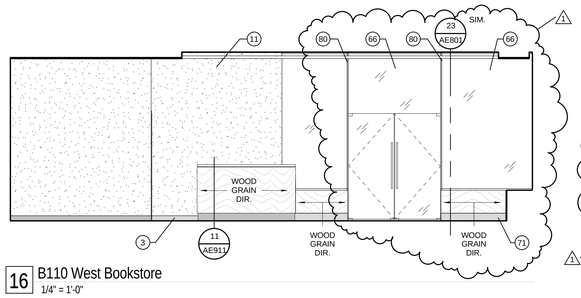
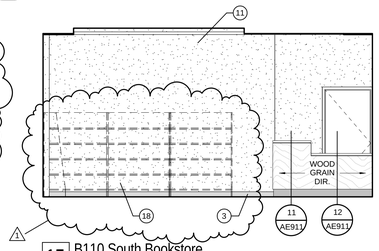
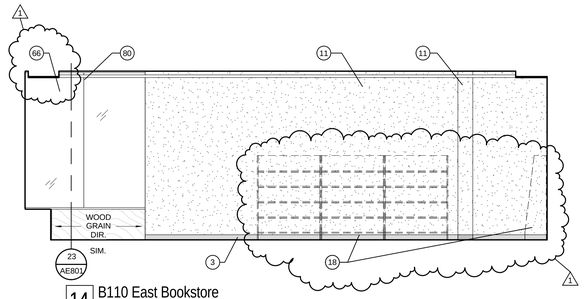


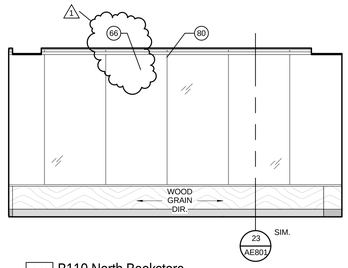
16 B110 West Bookstore
1/4" = 1'-0"



15 B110 South Bookstore
1/4" = 1'-0"



14 B110 East Bookstore
1/4" = 1'-0"



13 B110 North Bookstore
1/4" = 1'-0"

KEYNOTE LEGEND

3	BASE AS SPECIFIED
6	MIRROR - CENTER OVER SINK - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
8	WHITE BOARD / TACK BOARD BY OTHERS
10	AUTOMATIC PAPER TOWEL DISPENSER - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
18	FURNITURE OR EQUIPMENT BY OTHERS
31	COUNTER MOUNTED SOAP DISPENSOR - REFER TO ACCESSORY SCHEDULE (AE611)
32	PAINT ABOVE TILE (PNT-9)
33	WALL TILE (T-1) - 8"x20" GRID STACKED
34	BULL NOSE EDGE TRIM (T-7)
35	ACCENT TILE - 2"x8" (T-5) - RUN VERTICALLY UP WALL
36	CEILING MOUNTED PLASTIC LAMINATE TOILET PARTITION - PROVIDE BLOCKING IN CEILING AND WALLS - REFER TO ACCESSORY SCHEDULE (AE611)
37	WALL SCONCE - REFER TO ELECTRICAL DRAWINGS
38	STONE COUNTERTOP W/ NO BACKSPLASH
41	CEILING MOUNTED ACOUSTICAL FOLDING PARTITION - REFER TO DETAILS AND SECTIONS
46	PLASTIC LAMINATE TALL CABINETS W/ ADJUSTABLE SHELVING
55	FULLY CONCEALED WORK SURFACE SUPPORTS - 3' O.C.
56	PAINTED METAL STRUCTURE (PNT-9)
59	SEMI-RECESSED TRASH RECEPTACLE - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
60	SANITARY NAPKIN DISPENSOR - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
63	BABY CHANGING STATION - REFER TO ACCESSORY SCHEDULE (AE611)
66	1/2" CLEAR TEMPERED GLASS - FRAMELESS
71	METAL BASE (MB-1)
79	WALL MOUNTED PLASTIC LAMINATE URINAL PARTITION - REFER TO ACCESSORY SCHEDULE (AE611)
80	1/4" GAP @ FRAMELESS GLASS
86	SEMI-RECESSED FIRE EXTINGUISHER CABINET

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS
2. UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH
3. UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.
4. ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY
5. PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.
6. PROVIDE BLOCKING @ ALL ATTACHMENT LOCATIONS; INCLUDING BUT NOT LIMITED TO CASEWORK, SHELVING, EQUIPMENT, & FURNITURE. SEE 27/AE901 FOR TYP.

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

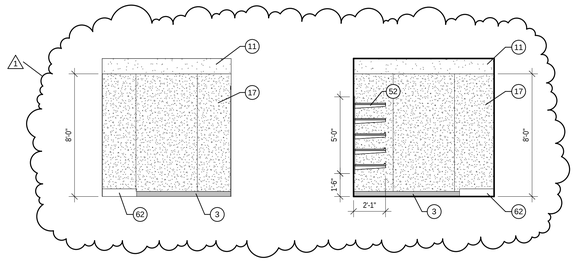
project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012

Interior Elevations

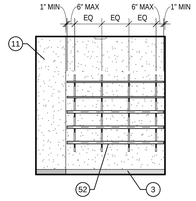
sheet:
AE215

100% Construction Documents

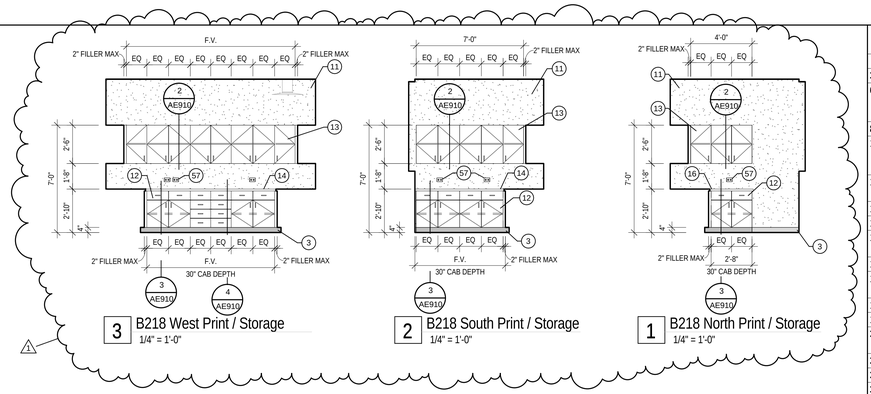


6 B219 South Janitor
1/4" = 1'-0"

5 B219 East Janitor
1/4" = 1'-0"



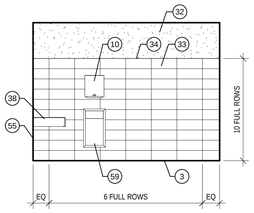
4 B219 North Janitor
1/4" = 1'-0"



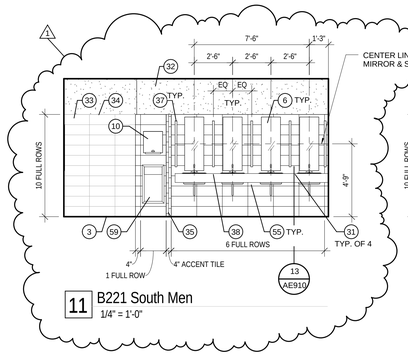
3 B218 West Print / Storage
1/4" = 1'-0"

2 B218 South Print / Storage
1/4" = 1'-0"

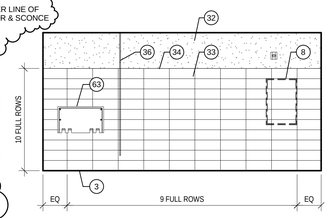
1 B218 North Print / Storage
1/4" = 1'-0"



12 B221 West Men
1/4" = 1'-0"



11 B221 South Men
1/4" = 1'-0"



10 B221 East Men
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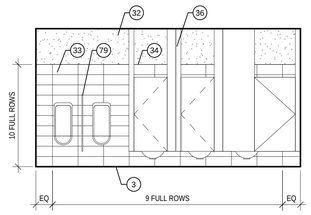

9 B221 North Men
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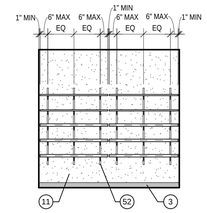

8 B220 West Storage
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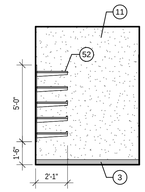

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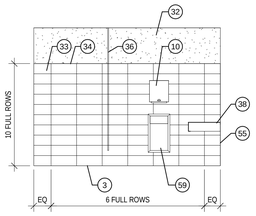
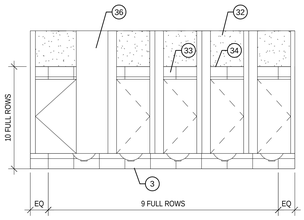
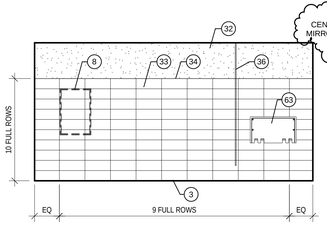
1/4" = 1'-0"



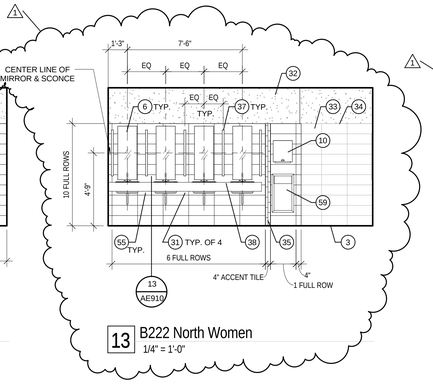
16 B222 West Women
1/4" = 1'-0"



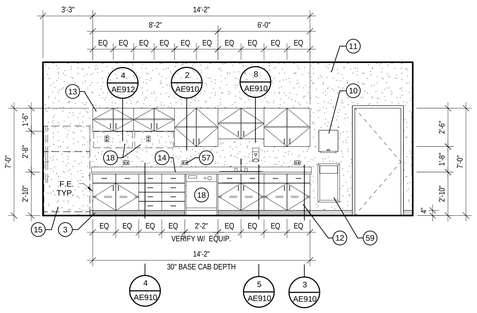
15 B222 South Women
1/4" = 1'-0"



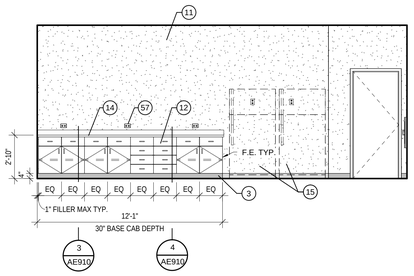
14 B222 East Women
1/4" = 1'-0"



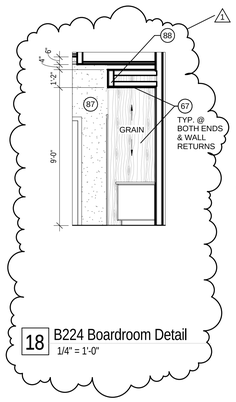
13 B222 North Women
1/4" = 1'-0"



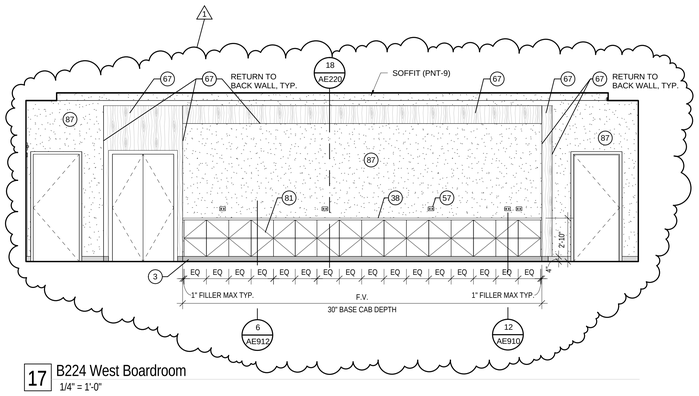
20 B225 West Kitchen
1/4" = 1'-0"



19 B225 East Kitchen
1/4" = 1'-0"



18 B224 Boardroom Detail
1/4" = 1'-0"



17 B224 West Boardroom
1/4" = 1'-0"

KEYNOTE LEGEND

3	BASE AS SPECIFIED
6	MIRROR - CENTER OVER SINK - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
8	WHITE BOARD / TACK BOARD BY OTHERS
10	AUTOMATIC PAPER TOWEL DISPENSER - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
14	PLASTIC LAMINATE COUNTERTOP W/ 4" BACKSPLASH
15	FULL SIZE REFRIGERATOR - BY OTHERS
16	PLASTIC LAMINATE COUNTERTOP W/ NO BACKSPLASH
17	WAINSCOT WALL PROTECTION (WP-1)
18	FURNITURE OR EQUIPMENT BY OTHERS
31	COUNTER MOUNTED SOAP DISPENSOR - REFER TO ACCESSORY SCHEDULE (AE611)
32	PAINT ABOVE TILE (PNT-9)
33	WALL TILE (T-1) - 8"x20" GRID STACKED
34	BULL NOSE EDGE TRIM (T-7)
35	ACCENT TILE - 2"x8" (T-5) - RUN VERTICALLY UP WALL
36	CEILING MOUNTED PLASTIC LAMINATE TOILET PARTITION - PROVIDE BLOCKING IN CEILING AND WALLS - REFER TO ACCESSORY SCHEDULE (AE611)
37	WALL SCONCE - REFER TO ELECTRICAL DRAWINGS
38	STONE COUNTERTOP W/ NO BACKSPLASH
52	WALL MOUNTED ADJUSTABLE SHELVING - SEE ELEVATIONS FOR SHELF DEPTH - SHELVES TO BE 3/4" MDF W/ WHITE MELAMINE ON BOTH SIDES AND WHITE RUBBER EDGE BANDING ON ALL (4) EDGES TYP. - SHELVES TO BE SUPPORTED BY REEVE 761 OR EQUAL (WHITE) - BOTTOM (3) SHELVES IN JANITOR ROOMS SHALL HAVE 1 1/2" H LIP
55	FULLY CONCEALED WORK SURFACE SUPPORTS - 3' O.C.
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS
59	SEMI-RECESSED TRASH RECEPTACLE - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
62	FLOOR SINK - REFER TO MECHANICAL DRWGS & SPECS.
63	BABY CHANGING STATION - REFER TO ACCESSORY SCHEDULE (AE611)
67	WOOD VENEER WALL COVERING (WC-1)
79	WALL MOUNTED PLASTIC LAMINATE URINAL PARTITION - REFER TO ACCESSORY SCHEDULE (AE611)
81	WOOD VENEER CABINET (WV-1)
87	FABRIC WALLCOVERING (WC-2)
88	CONT. METAL STUD HEADER @ SOFFIT

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, SEE SHEET 1/AE901 FOR TYPICAL ACCESSORY MOUNTING HEIGHTS
2. UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH
3. UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.
4. ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY
5. PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.
6. PROVIDE BLOCKING @ ALL ATTACHMENT LOCATIONS; INCLUDING BUT NOT LIMITED TO CASEWORK, SHELVING, EQUIPMENT, & FURNITURE. SEE 27/AE901 FOR TYP.

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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phone:(801) 532-4422

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

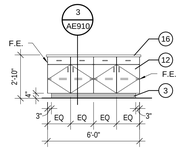
project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012

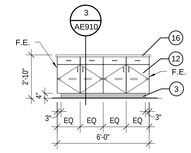
Interior Elevations

sheet:
AE220

100% Construction Documents



4 B226 South Island Workroom
1/4" = 1'-0"



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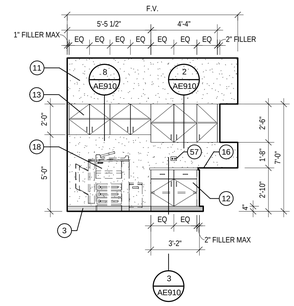
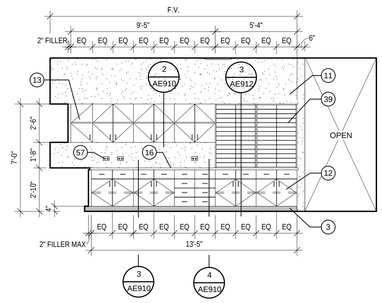
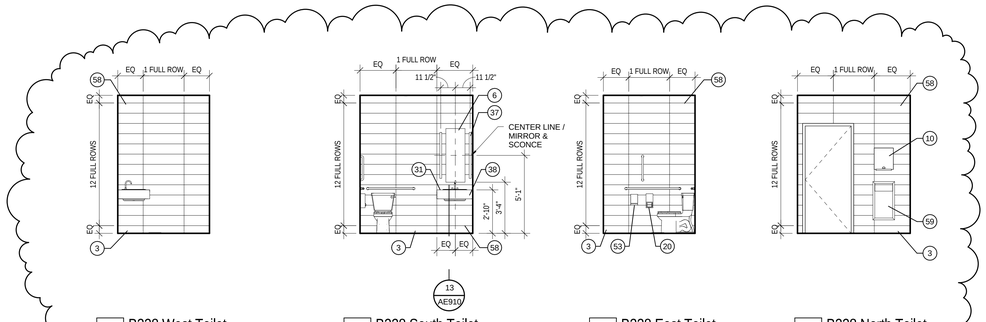
1/4" = 1'-0"



2 B226 West Workroom
1/4" = 1'-0"



1 B226 North Workroom
1/4" = 1'-0"

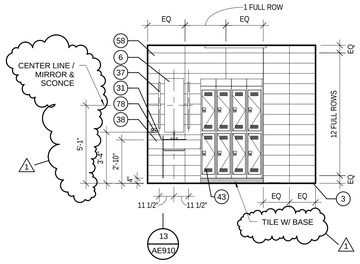


8 B228 West Toilet
1/4" = 1'-0"
B230 Sim. / Opp.

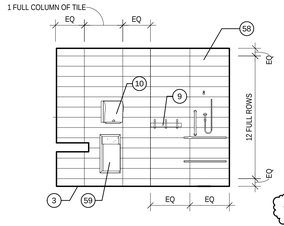
7 B228 South Toilet
1/4" = 1'-0"
B230 Sim. / Opp.

6 B228 East Toilet
1/4" = 1'-0"
B230 Sim. / Opp.

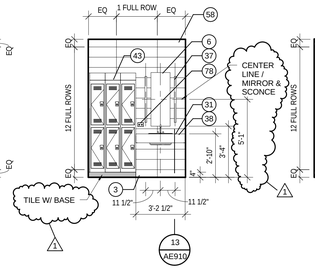
5 B228 North Toilet
1/4" = 1'-0"
B230 Sim. / Opp.



13 B231 North Locker/Shower
1/4" = 1'-0"



12 B229 West Locker/Shower
1/4" = 1'-0"



11 B229 South Locker/Shower
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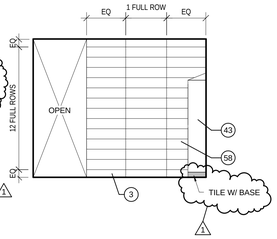
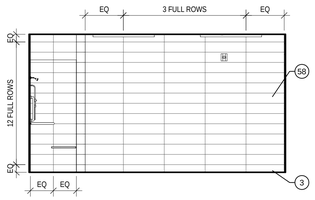
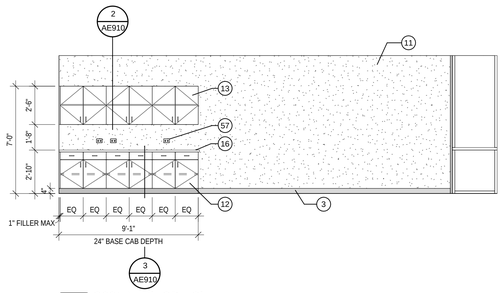


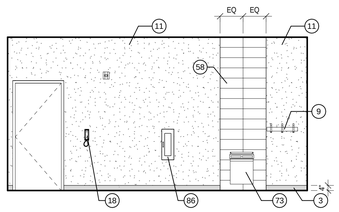
10 B229 East Locker/Shower
1/4" = 1'-0"



9 B229 North Locker/Shower
1/4" = 1'-0"



15 C201 North CDL Classroom
1/4" = 1'-0"



14 B232 South Exercise
1/4" = 1'-0"

GENERAL NOTES

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2 UPPER, LOWER, AND TALL MILLWORK CABINETS NOT TO EXCEED 36" IN WIDTH

3 UNLESS NOTED OTHERWISE, MATCH UPPER CABINET WIDTH DIMENSIONS TO BASE CABINETS - TYP.

4 ALL ELECTRICAL AND DATA OUTLETS ABOVE COUNTER TOPS SHOULD BE MOUNTED HORIZONTALLY

5 PROVIDE SAFETY INSULATION ON ALL EXPOSED SUPPLY WATER LINES AND WASTE LINES.

6 PROVIDE BLOCKING @ ALL ATTACHMENT LOCATIONS; INCLUDING BUT NOT LIMITED TO CASEWORK, SHELVING, EQUIPMENT, & FURNITURE. SEE 27/AE901 FOR TYP.

1

KEYNOTE LEGEND

3	BASE AS SPECIFIED
6	MIRROR - CENTER OVER SINK - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
9	COAT HOOK - REFER TO ACCESSORY SCHEDULE (AE611)
10	AUTOMATIC PAPER TOWEL DISPENSER - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
11	GWB PAINTED WALL - REFER TO ROOM FINISH SCHEDULE (AE611)
12	PLASTIC LAMINATE BASE CABINET
13	PLASTIC LAMINATE UPPER CABINET
16	PLASTIC LAMINATE COUNTERTOP W/ NO BACKSPLASH
18	FURNITURE OR EQUIPMENT BY OTHERS
20	TOILET PAPER DISPENSOR - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
31	COUNTER MOUNTED SOAP DISPENSOR - REFER TO ACCESSORY SCHEDULE (AE611)
37	WALL SCONCE - REFER TO ELECTRICAL DRAWINGS
38	STONE COUNTERTOP W/ NO BACKSPLASH
39	PLASTIC LAMINATE & CLEAR ACRYLIC MAIL SLOTS
43	PLASTIC LAMINATE PARTIAL HEIGHT LOCKERS - REFER TO ACCESSORY SCHEDULE (AE611)
53	SANITARY NAPKIN DISPOSAL - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
57	DATA / ELECTRICAL - REFER TO ELECTRICAL DRWGS
58	PORCELAIN TILE (T-8)
59	SEMI-RECESSED TRASH RECEPTACLE - REFER TO MOUNTING HEIGHT ELEVATIONS (1/AE901) & ACCESSORY SCHEDULE (AE611)
73	DRINKING FOUNTAIN - REFER TO MECHANICAL DRWGS.
78	PROVIDE STAINLESS STEEL COVER PLATE AT THIS LOCATION.
86	SEMI-RECESSED FIRE EXTINGUISHER CABINET

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project:
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88 South Tooele Blvd
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DFCM PROJECT #11064280

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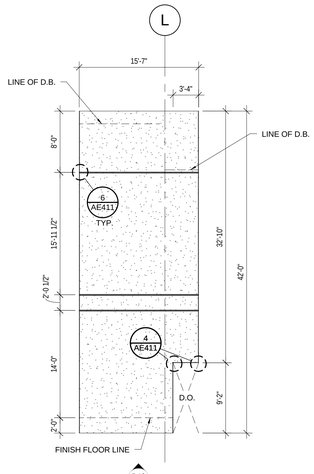
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012

Interior Elevations

sheet:
AE221

100% Construction Documents



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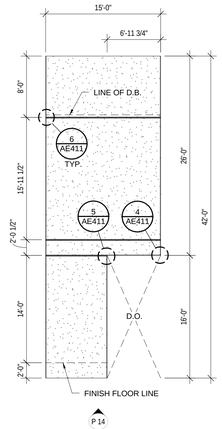
FINISH FACE
SAND BLAST



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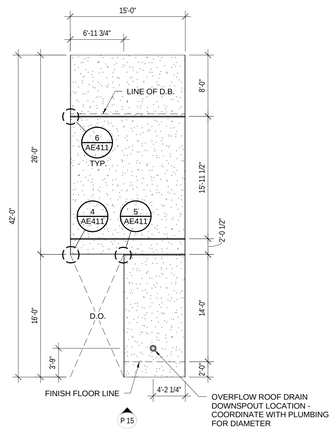

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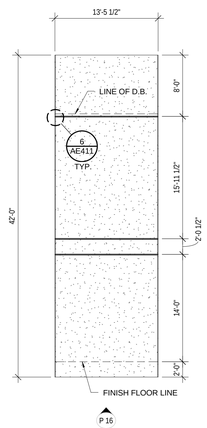

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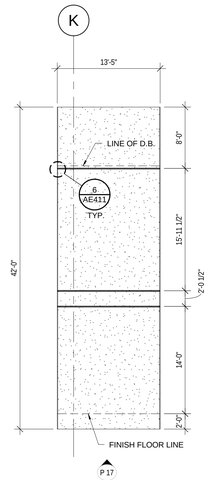

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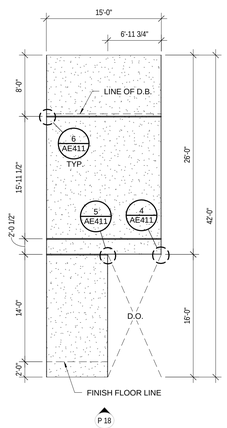

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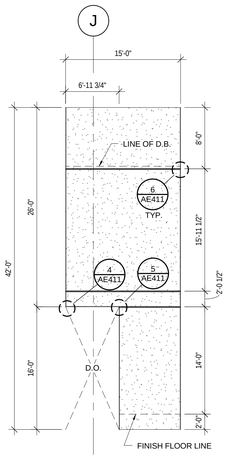

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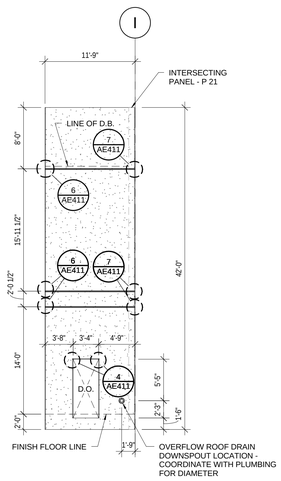

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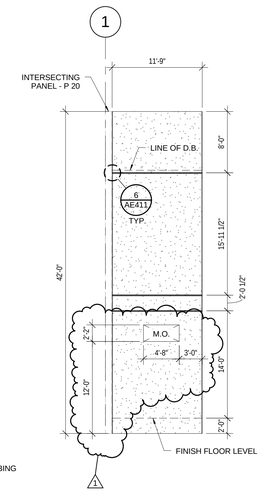

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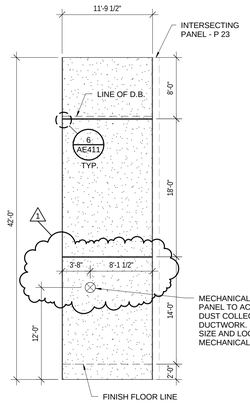

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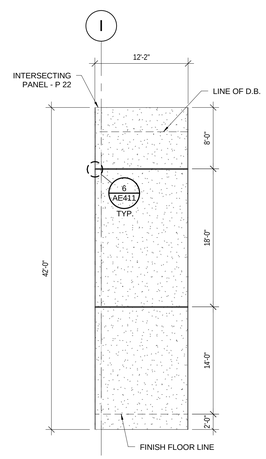

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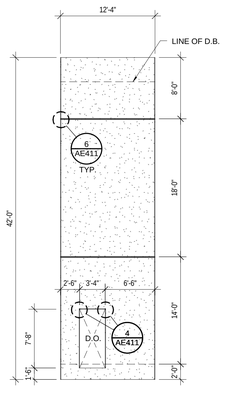

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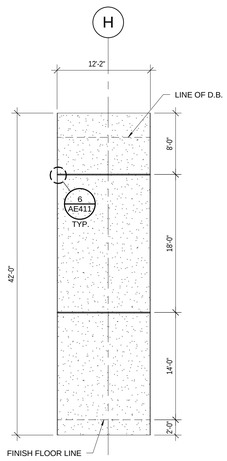

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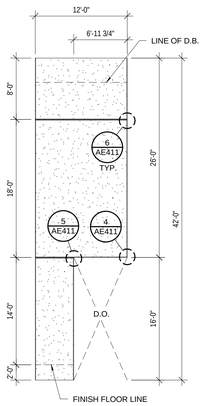

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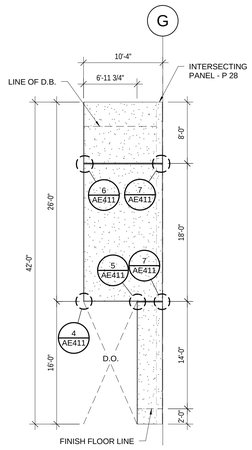

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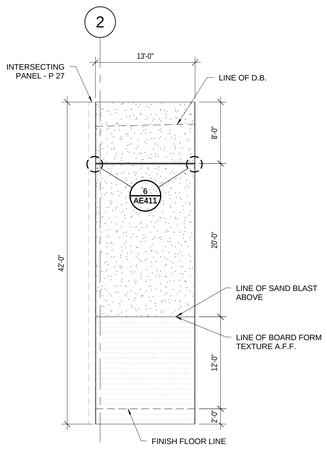

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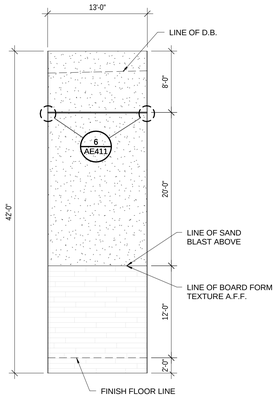
FINISH FACE
SAND BLAST &
BOARD FORM



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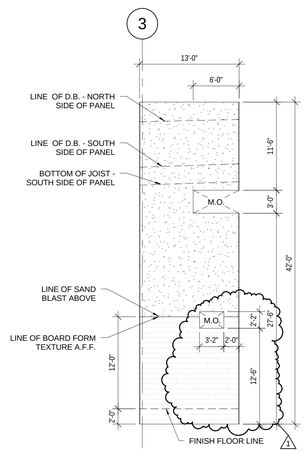

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BOARD FORM

TILT-UP GENERAL NOTES

1 NOT ALL OPENINGS SHOWN - SEE MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL PENETRATIONS - COORDINATE WITH STRUCTURAL

PANEL NOTE LEGEND

D.O. = DOOR OPENING
W.O. = WINDOW OPENING
M.O. = MECHANICAL OPENING
P.O. = PANEL OPENING

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DFCM PROJECT #11064280

project#: 11.0420
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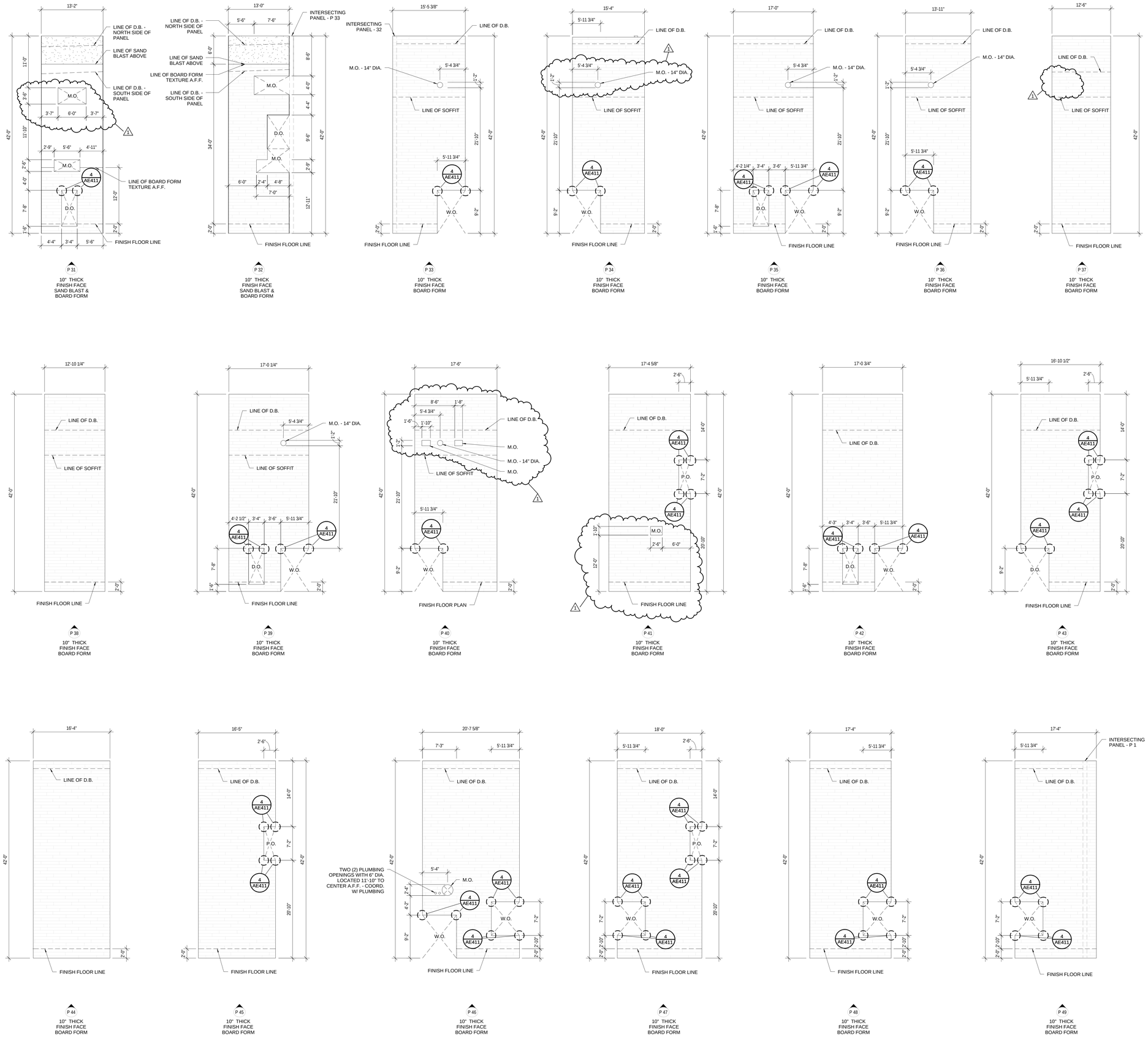
revisions :
1 Addendum 2 2/10/2012

Tilt-up Panel Elevations

sheet:

AE412

100% Construction Documents



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LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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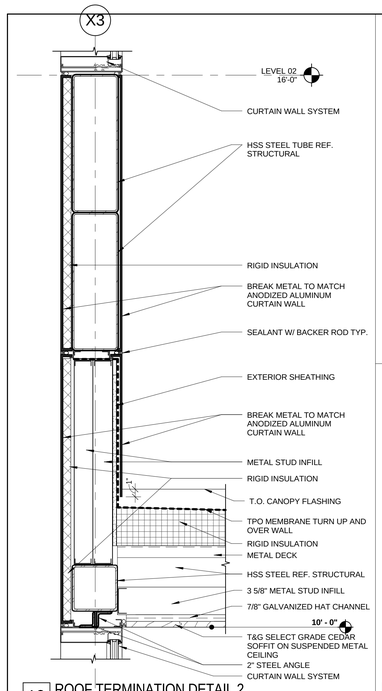
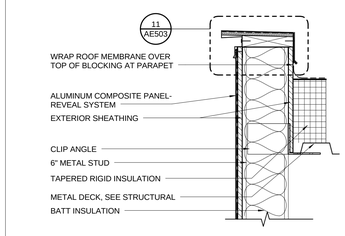


18 ROOF TERMINATION DETAIL 2
1 1/2" = 1'-0"



16 ROOF PARAPET DETAIL 3
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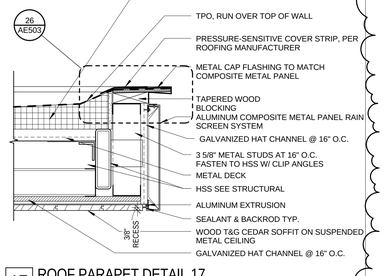

17 ROOF PARAPET DETAIL 17
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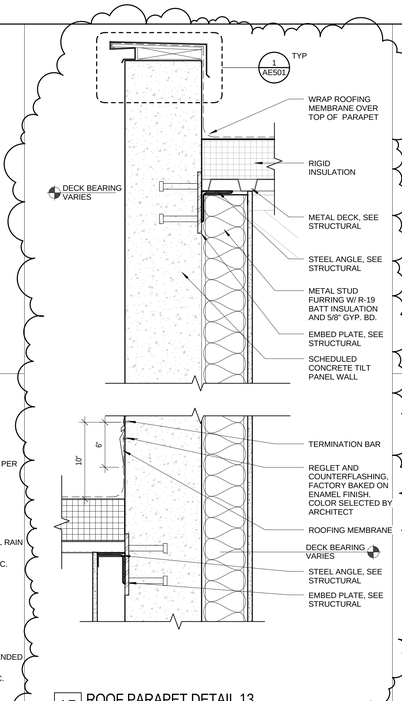

15 ROOF PARAPET DETAIL 13
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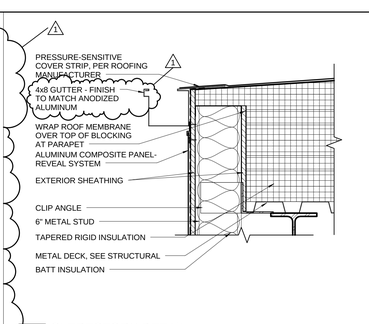
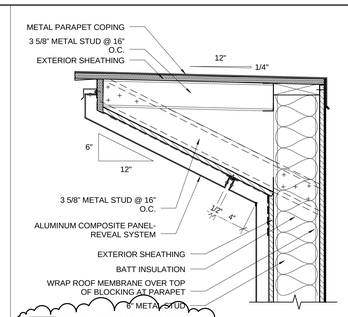
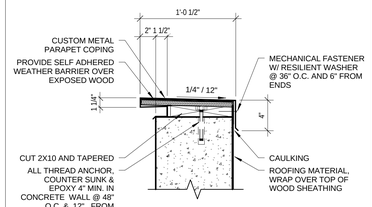


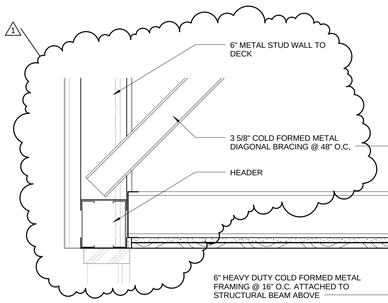
10 CLERESTORY DETAIL
1 1/2" = 1'-0"

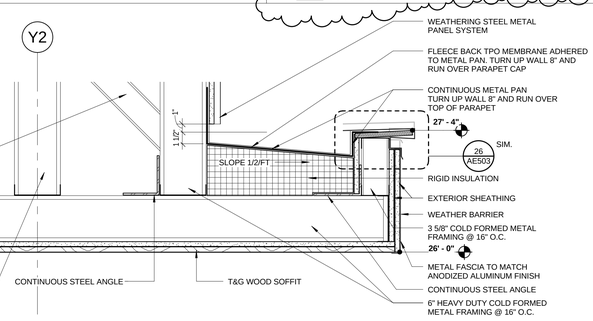


5 PARAPET CAP DETAIL
1 1/2" = 1'-0"

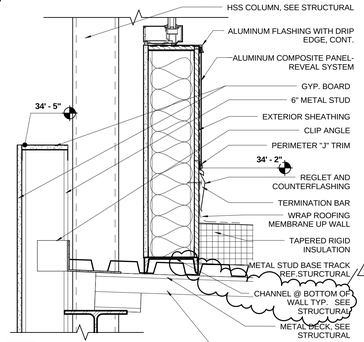


1 PARAPET DETAIL - CONCRETE WALL
1 1/2" = 1'-0"

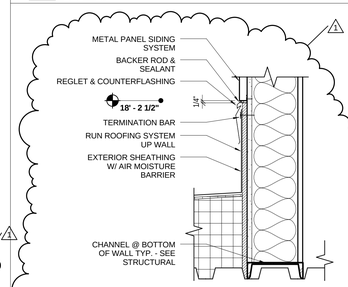




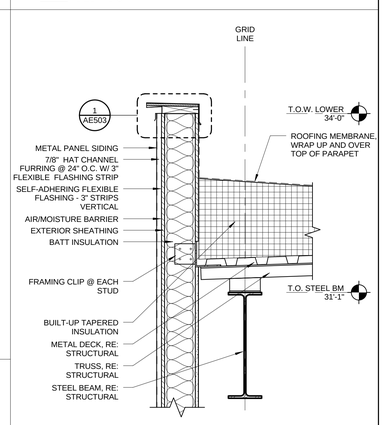
19 ROOF EDGE DETAIL
1 1/2" = 1'-0"



12 ROOF PARAPET DETAIL 2
1 1/2" = 1'-0"

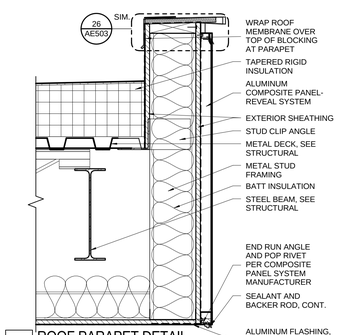


7 REGLET DETAIL
1 1/2" = 1'-0"

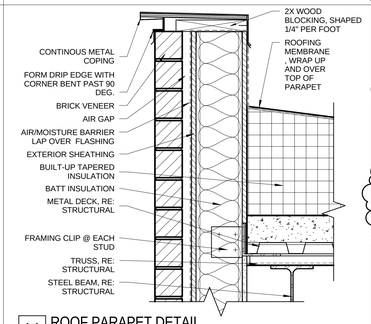


2 ROOF PARAPET DETAIL
1" = 1'-0"

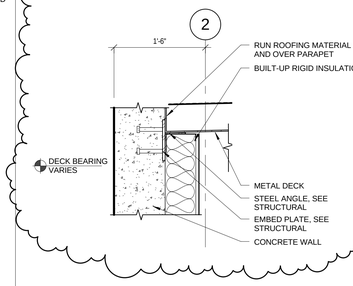
20 RAISED PAVER SECTION
3/4" = 1'-0"



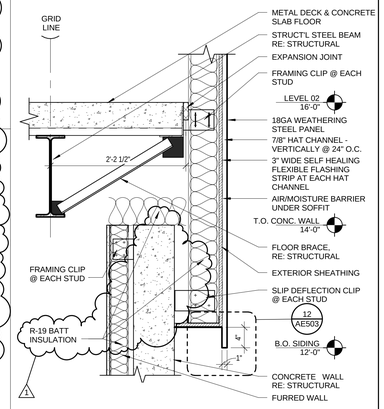
21 ROOF PARAPET DETAIL
1 1/2" = 1'-0"



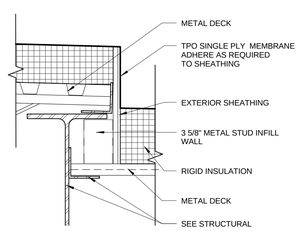
11 ROOF PARAPET DETAIL
1 1/2" = 1'-0"



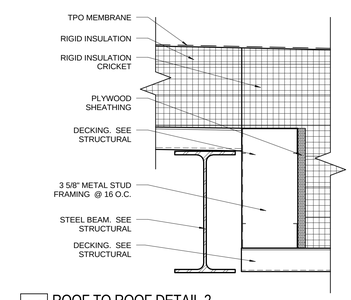
8 ROOF BEARING DETAIL
1" = 1'-0"



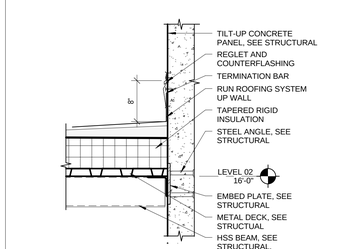
3 WALL TRANISTION DETAIL
1" = 1'-0"



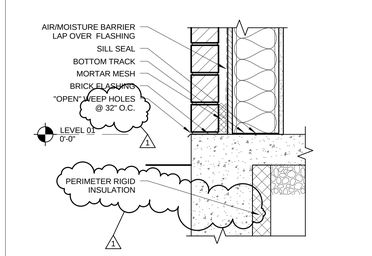
13 ROOF TO ROOF DETAIL
1 1/2" = 1'-0"



14 ROOF TO ROOF DETAIL 2
3" = 1'-0"



9 ROOF BEARING DETAIL
1" = 1'-0"



4 BRICK SILL FLASHING DETAIL
1 1/2" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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phone:(801) 532-4422

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project:
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88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :
1 Addendum 2 2/10/2012

Exterior Details

sheet:
AE501

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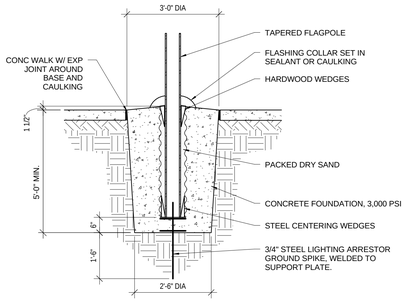
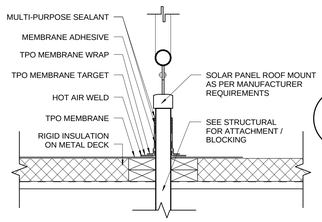
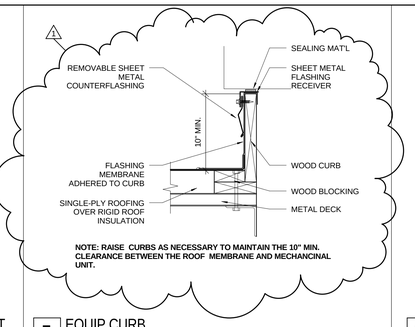


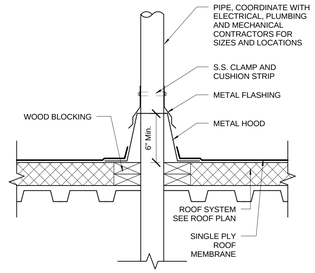
12 FLAG POLE DETAIL
1/2" = 1'-0"



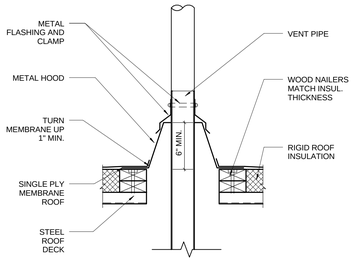
9 PHOTOVOLTAIC STAND TO ROOF ATTACHMENT
1 1/2" = 1'-0"



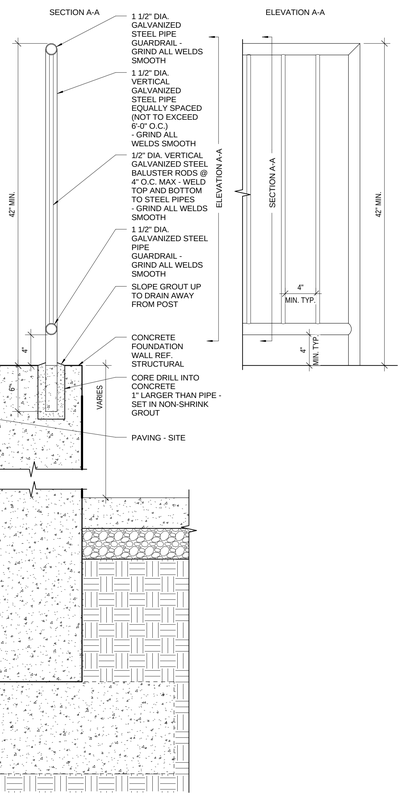
7 EQUIP CURB
1 1/2" = 1'-0"



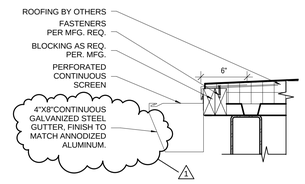
5 DETAIL
1 1/2" = 1'-0"



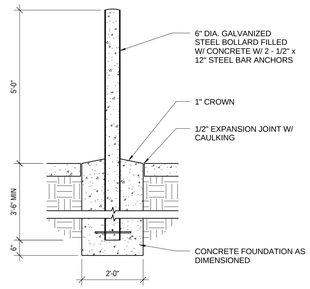
1 WARM PIPE VENT DETAIL
1 1/2" = 1'-0"



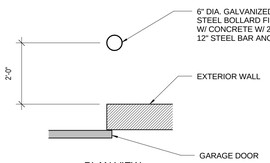
13 LOADING DOCK SECTION
1 1/2" = 1'-0"



10 GUTTER DETAIL
1 1/2" = 1'-0"

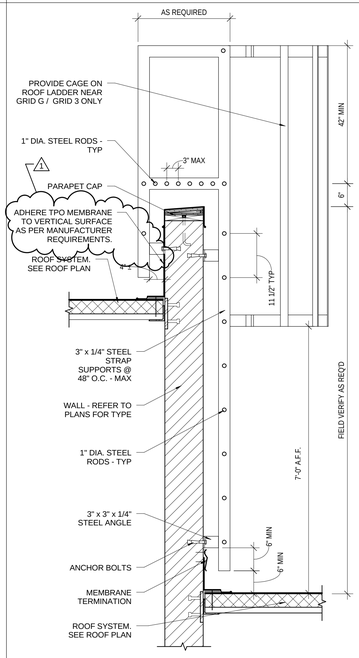


SECTION VIEW

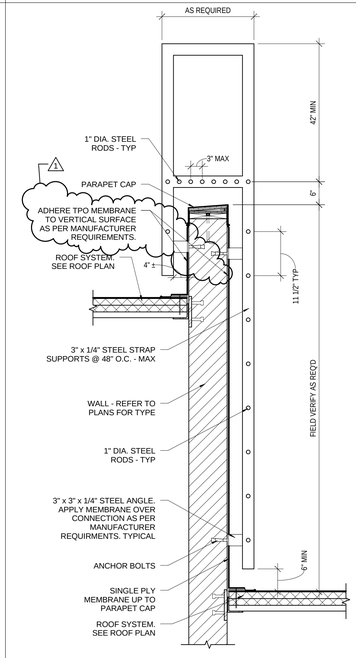


PLAN VIEW

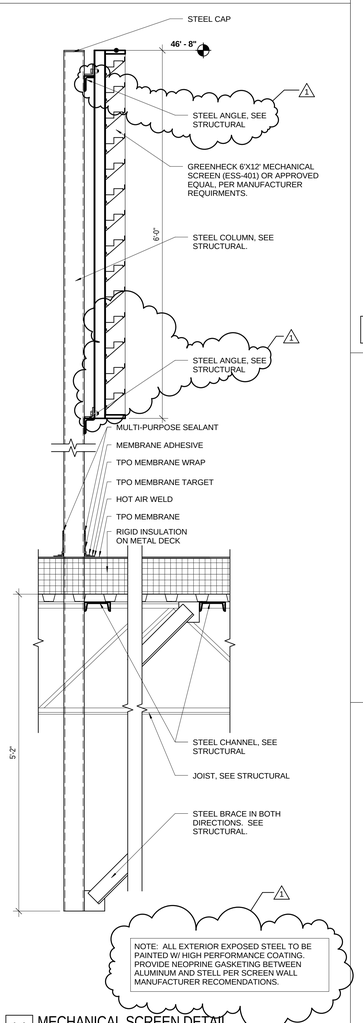
8 SITE BOLLARD DETAIL
1/2" = 1'-0"



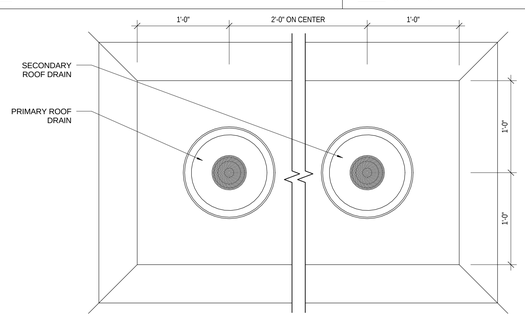
6 ROOF LADDER W/ MEMBRANE TERMINATIONS
3/4" = 1'-0"

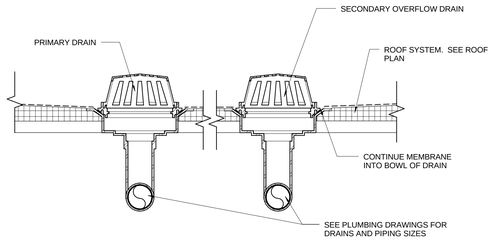


2 ROOF LADDER - MEMBRANE TO PARAPET CAP
3/4" = 1'-0"

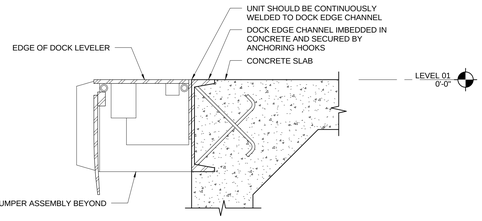


11 MECHANICAL SCREEN DETAIL
1" = 1'-0"

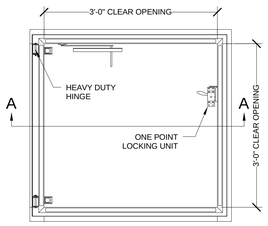




3 ROOF DRAIN DETAIL
1 1/2" = 1'-0"

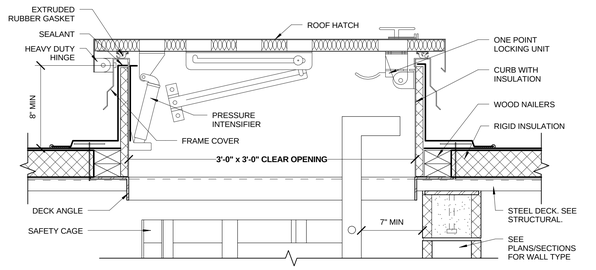


14 EDGE OF DOCK LEVELER DETAIL
1 1/2" = 1'-0"



NOTES:

1. ALL MOUNTING HARDWARE TO BE SUPPLIED BY OTHERS.
2. FOR OPERATING EFFICIENCY, THE NUMBER OF PRESSURE INTENSIFIERS VARIES WITH THE SIZE OF THE HATCH.



SECTION A-A

4 ROOF HATCH PLAN/SECTION
1 1/2" = 1'-0"

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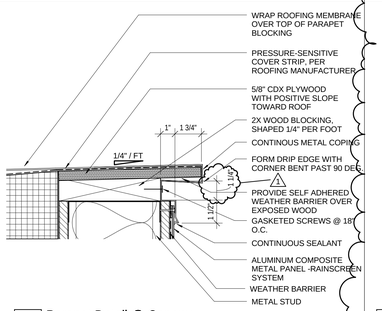
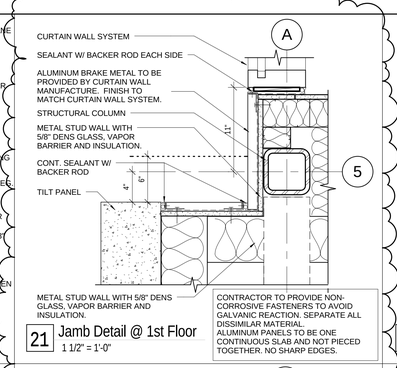
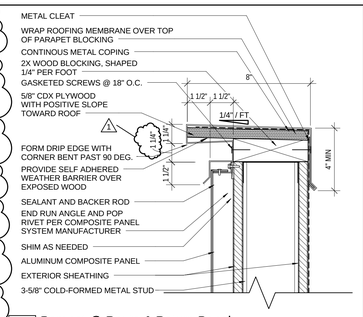


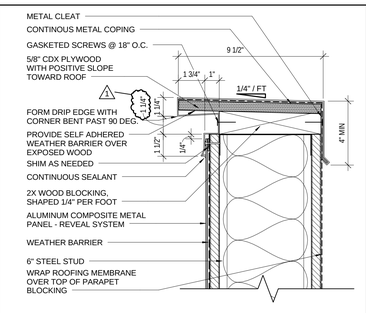
26 Parapet Detail @ Canopy
3" = 1'-0"



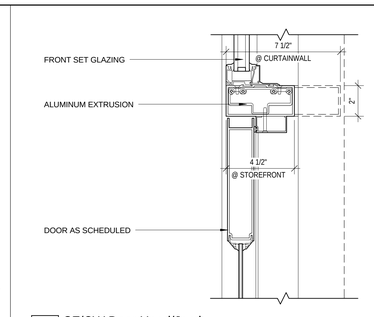
21 Jamb Detail @ 1st Floor
1 1/2" = 1'-0"



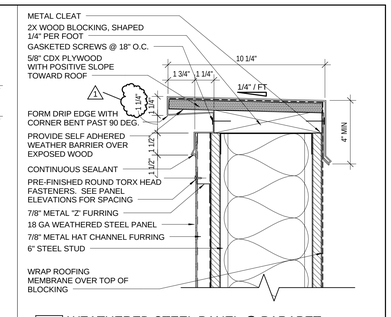
16 Parapet @ Route & Return Panel
3" = 1'-0"



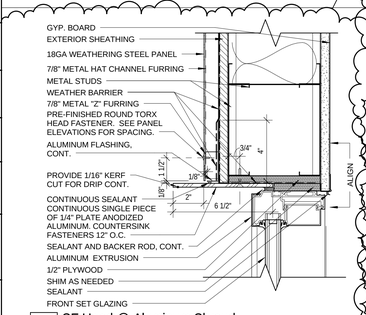
11 Metal Panel- Reveal System @ Parapet
3" = 1'-0"



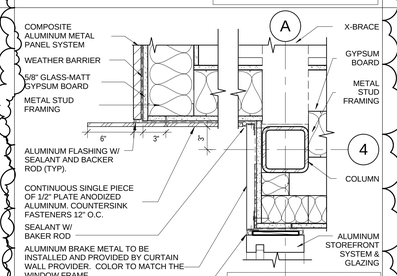
6 SF/CW Door Head/Jamb
3" = 1'-0"



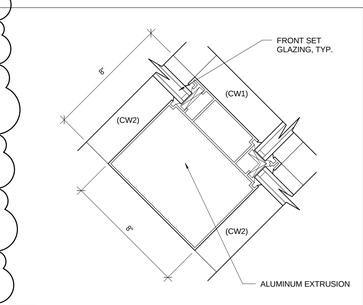
1 WEATHERED STEEL PANEL @ PARAPET
3" = 1'-0"



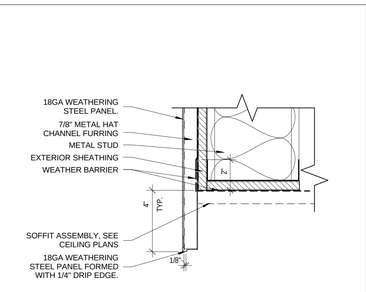
27 SF Head @ Aluminum Shroud
3" = 1'-0"



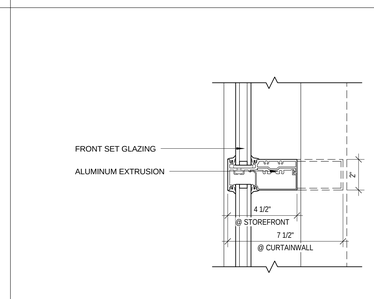
22 Jamb Detail @ 2nd Floor
1 1/2" = 1'-0"



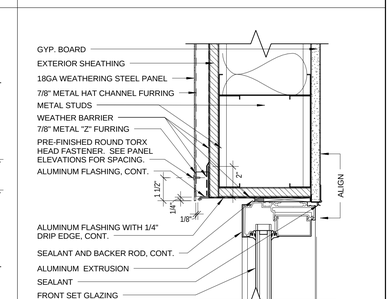
17 CW Intersection 2
3" = 1'-0"



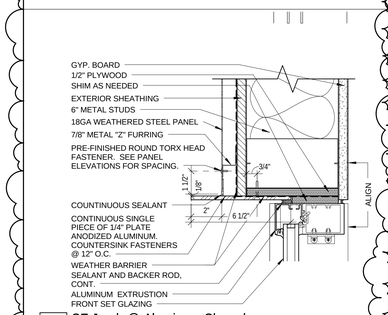
12 Weathered Steel Panel Soffit Transition
3" = 1'-0"



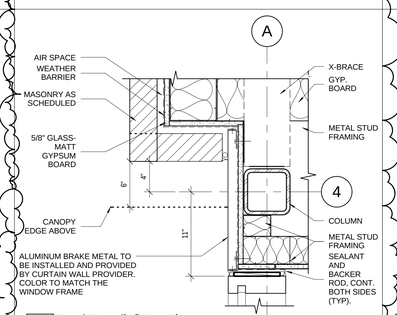
7 SF/CW Horizontal Mullion
3" = 1'-0"



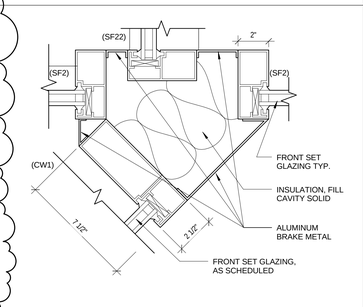
2 SF Head @ Weathered Steel Panel
3" = 1'-0"



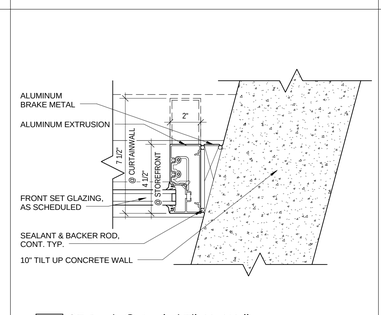
28 SF Jamb @ Aluminum Shroud
3" = 1'-0"



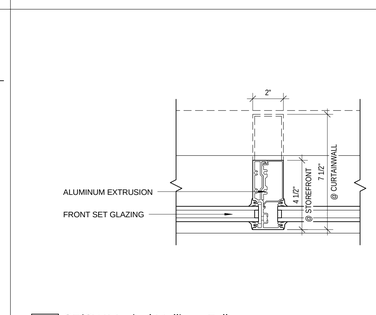
23 Jamb Detail @ 1st Floor
1 1/2" = 1'-0"



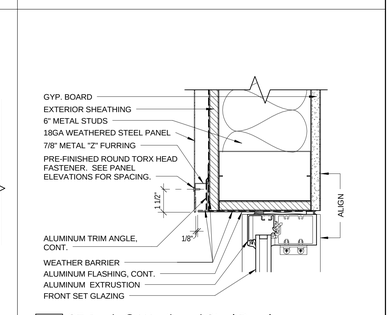
18 CW/SF Intersection
3" = 1'-0"



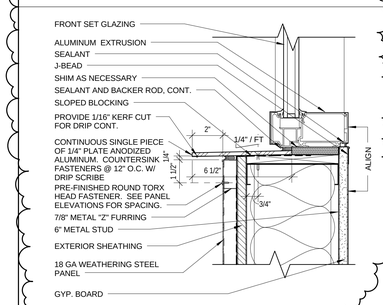
13 SF Jamb @ Angled Tilt Up Wall
3" = 1'-0"



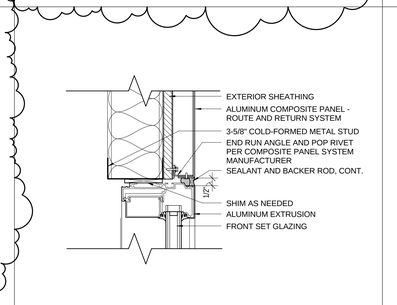
8 SF/CW Vertical Mullion - Full
3" = 1'-0"



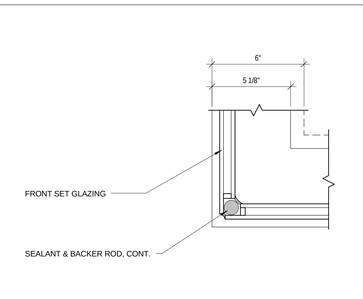
3 SF Jamb @ Weathered Steel Panel
3" = 1'-0"



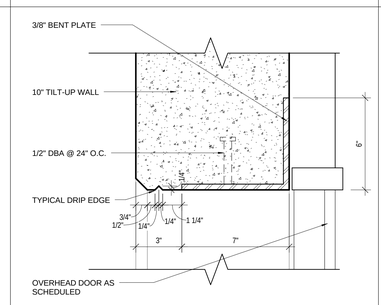
29 SF Sill @ Aluminum Shroud
3" = 1'-0"



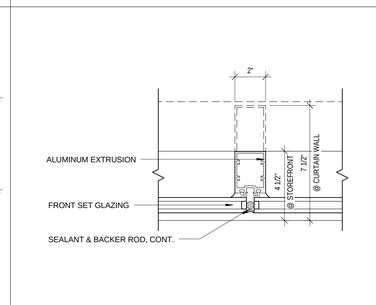
24 SF Head @ Route & Return Panel
3" = 1'-0"



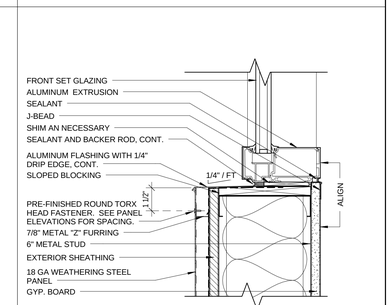
19 SF Butt Glazed Corner
3" = 1'-0"



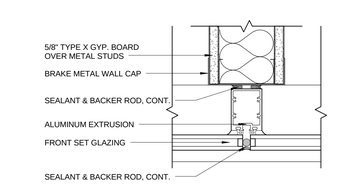
14 Bent Plate Frame - Head
3" = 1'-0"



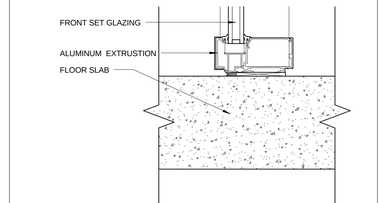
9 SF/CW Vertical Mullion - Front Set
3" = 1'-0"



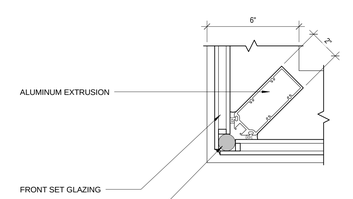
4 SF Sill @ Weathered Steel Panel
3" = 1'-0"



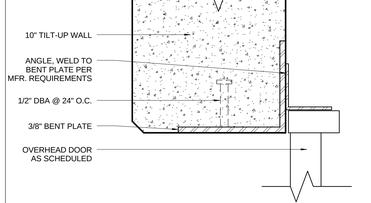
30 SF Wall/Mullion Intersection
3" = 1'-0"



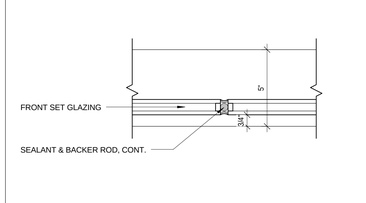
25 SF Sill @ Int. Floor
3" = 1'-0"



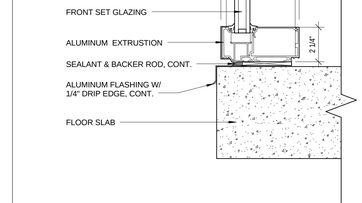
20 SF Front Set Corner
3" = 1'-0"



15 Bent Plate Frame - Jamb
3" = 1'-0"



10 SF Butt Glazing
3" = 1'-0"



5 SF Sill @ Ext Floor
3" = 1'-0"

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salt lake city, utah 84101
phone:(801) 532-4422

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012

Exterior Details

sheet:

AE503

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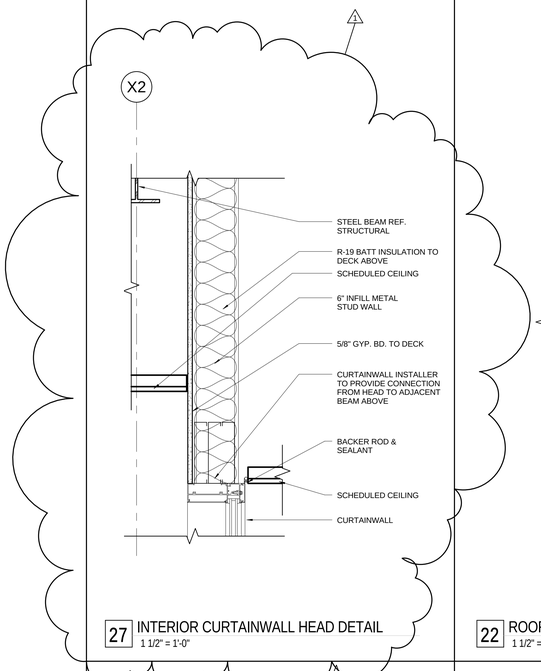
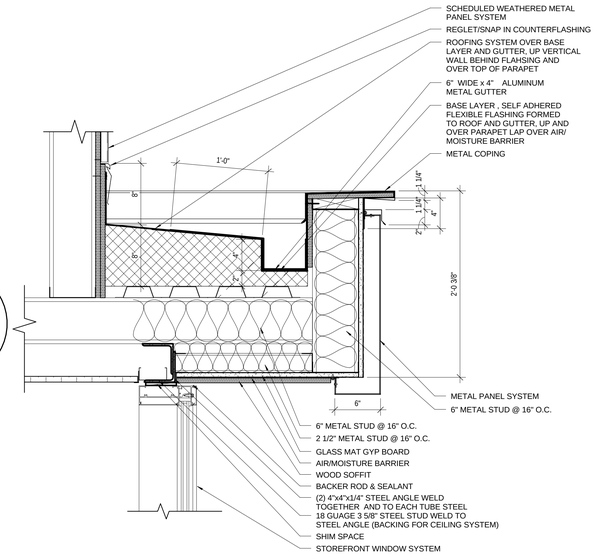
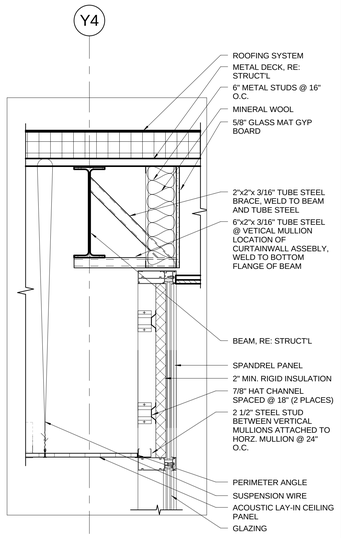


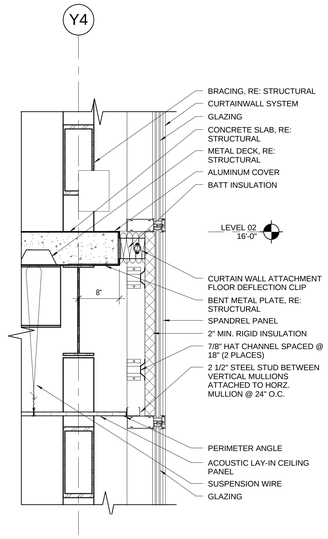
27 INTERIOR CURTAINWALL HEAD DETAIL
1 1/2" = 1'-0"



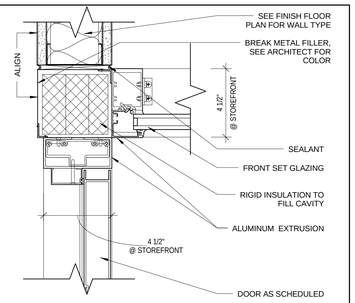
22 ROOF EYEBROW DETAIL
1 1/2" = 1'-0"



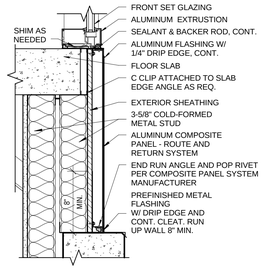
12 CONNECTION DETAIL @ CURTAINWALL
1" = 1'-0"



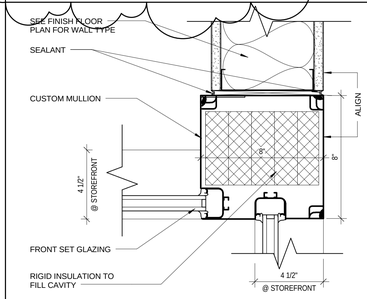
7 CONNECTION DETAIL @ SLAB/CURTAINWALL
1" = 1'-0"



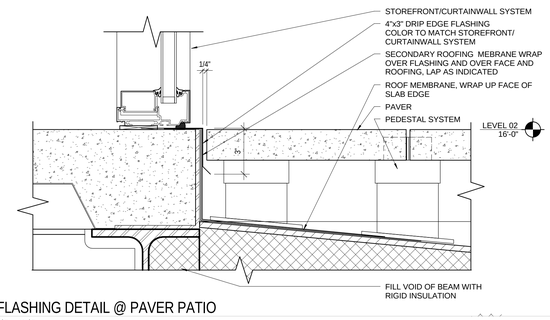
1 SF Corner Plan Detail
3" = 1'-0"



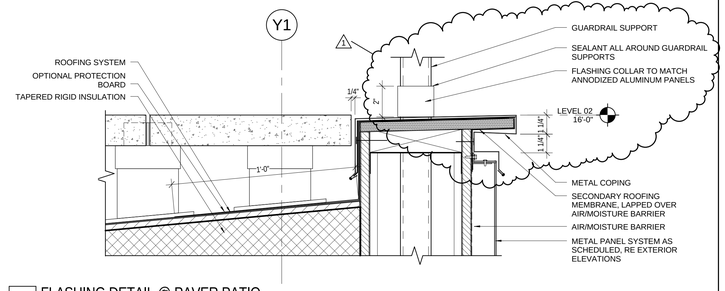
2 METAL PANEL@SLABEDGE-STOREFRONT
1 1/2" = 1'-0"



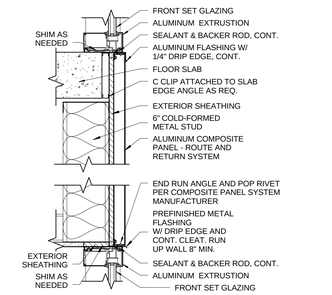
28 Corner Mullion Detail
3" = 1'-0"



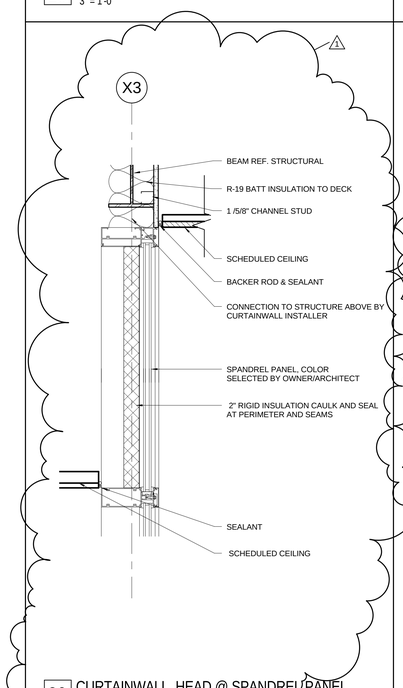
23 FLASHING DETAIL @ PAVER PATIO
3" = 1'-0"



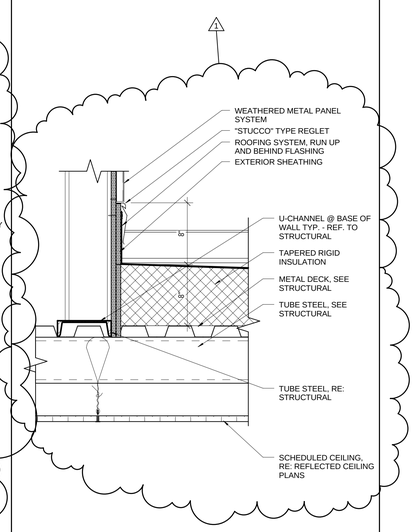
13 FLASHING DETAIL @ PAVER PATIO
3" = 1'-0"



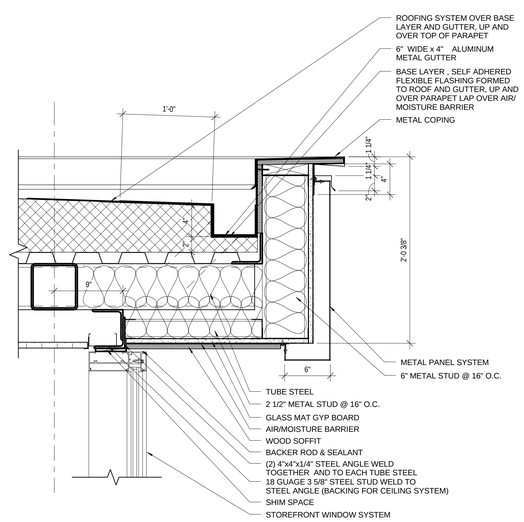
3 STOREFRONT @ METAL PANEL SYSTEM
1 1/2" = 1'-0"



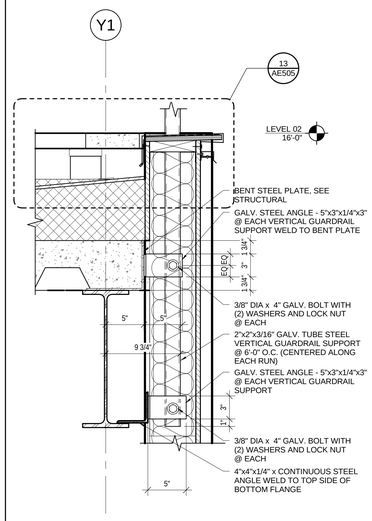
30 CURTAINWALL HEAD @ SPANDREL PANEL
1 1/2" = 1'-0"



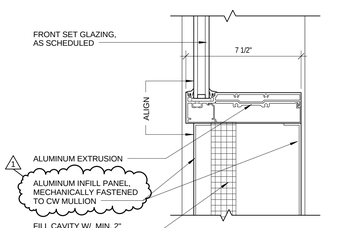
25 REGLET FLASHING DETAIL
1 1/2" = 1'-0"



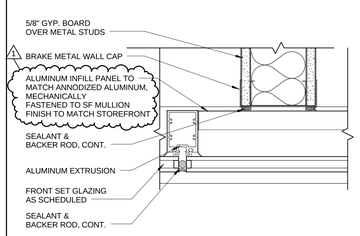
20 DETAIL @ GUTTER
1 1/2" = 1'-0"



10 GUARDRAIL CONNECTION DETAIL
1 1/2" = 1'-0"



4 CW HORIZONTAL MULLION - BRAKE METAL
3" = 1'-0"



5 SF/WALL MULLION INTERSECTION (OFFSET)
3" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

project#: 11.0420
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1 Addendum 2 2/10/2012

Exterior Details

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AE505

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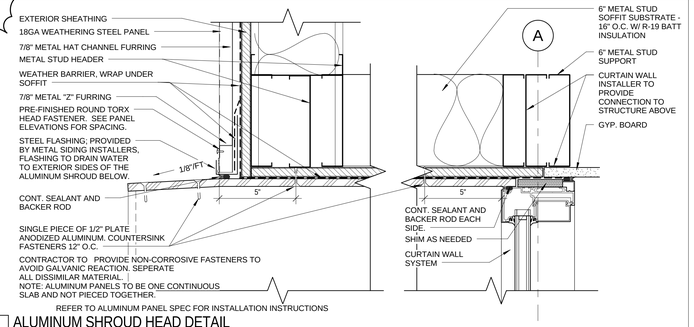
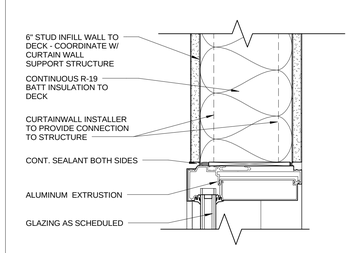
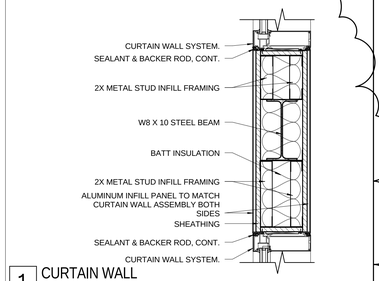


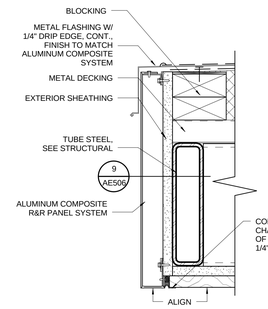
7 ALUMINUM SHROUD HEAD DETAIL
3" = 1'-0"



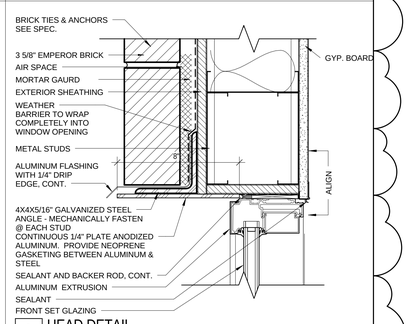
6 CW Head
3" = 1'-0"



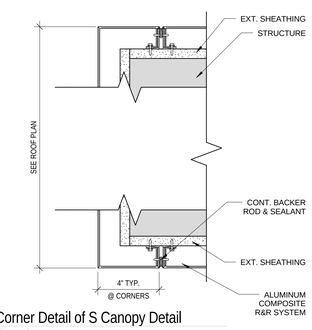
1 CURTAIN WALL
1 1/2" = 1'-0"



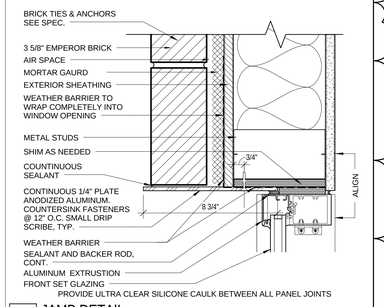
8 Callout of S Canopy Detail
3" = 1'-0"



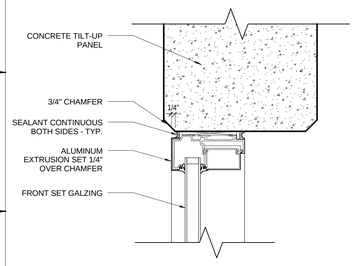
2 HEAD DETAIL
3" = 1'-0"



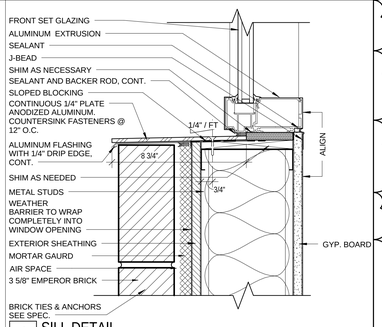
9 Corner Detail of S Canopy Detail
3" = 1'-0"



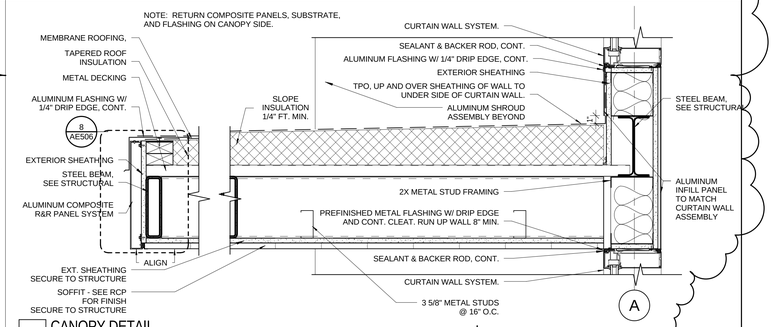
3 JAMB DETAIL
3" = 1'-0"



10 Alum. Head / Jamb / Sill Detail @ Tilt-up
3" = 1'-0"



4 SILL DETAIL
3" = 1'-0"



5 CANOPY DETAIL
1 1/2" = 1'-0"

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JOSEPH FLINT SMITH
STATE OF UTAH
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Exterior Details

sheet:
AE506

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DOOR SCHEDULE

Number	Door Width	Door Height	Door Thickness	Door Type	Hardware Set	Door Finish	Door Material	Frame Type	Frame Material	Frame Finish	Comments
	6'-0"	6'-10 3/4"									Low-E Coated Glass
A100A	6'-0"	7'-0"	0'-1 3/4"	D10	11	STN	WD	F5	HM	PNT	
A100B	6'-0"	7'-0"	0'-1 3/4"	D10	11	STN	WD	F5	HM	PNT	
A100C	6'-0"	7'-0"	0'-1 3/4"	D2	11	STN	WD	F5	HM	PNT	
A101A	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F3	HM	PNT	
A101B	3'-0"	7'-0"	0'-1 3/4"	D8	16	CLR-A	AL	F3	AL	CLR-A	Provide Sound Seal
A102	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F1	HM	PNT	
A103	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A105	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F1	HM	PNT	
A106	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A107	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A108	4'-0"	7'-0"	0'-1 3/4"	D11	14	STN	WD	F1	HM	PNT	
A110	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F3	HM	PNT	
A111	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F3	HM	PNT	
A112	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F3	HM	PNT	
A113	3'-0"	7'-0"	0'-1 3/4"	D6	20	STN	WD	F1	HM	PNT	
A114	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A115	3'-0"	7'-0"	0'-1 3/4"	D6	21	STN	WD	F1	HM	PNT	
A116	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F3	HM	PNT	
A117	4'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A118	3'-0"	7'-0"	0'-1 3/4"	D6	25	PNT	HM	F1	HM	PNT	
A119	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F1	HM	PNT	
A120	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F1	HM	PNT	
A120B	4'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A121	3'-0"	7'-0"	0'-1 3/4"	D1	05	PNT	HM	F1	HM	PNT	
A123	3'-0"	7'-0"	0'-1 3/4"	D6	20	STN	WD	F1	HM	PNT	
A124	3'-0"	7'-0"	0'-1 3/4"	D6	20	STN	WD	F1	HM	PNT	
A125	4'-0"	7'-0"	0'-1 3/4"	D7	16	STN	WD	F1	HM	PNT	
A125A	6'-0"	7'-0"	0'-1 3/4"	D2	11	STN	WD	F5	HM	PNT	
A126	3'-0"	7'-0"	0'-1 3/4"	D7	15	STN	WD	F1	HM	PNT	
A127	3'-0"	7'-0"	0'-1 3/4"	D7	15	STN	WD	F1	HM	PNT	
A129	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A130	3'-0"	7'-0"	0'-1 3/4"	D1	02	PNT	HM	F1	HM	PNT	
A201	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F3	AL	CLR-A	
A202	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F1	HM	PNT	
A203	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F7	HM	PNT	
A204	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F3	AL	CLR-A	
A205	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F3	AL	CLR-A	
A206	3'-0"	7'-0"	0'-1 3/4"	D8	15	STN	WD	F7	HM	PNT	
A207	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F3	AL	CLR-A	
A208	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A209	3'-0"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
A210	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F1	AL	CLR-A	
A211	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F1	AL	CLR-A	
A212	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	WD	F1	AL	CLR-A	
B100A	6'-0"	7'-0"	0'-1 3/4"	D10	28	CLR-A	WD	F5	AL	CLR-A	Magnetic Hold Open, Tied to Fire Alarm System
B100B	3'-0"	7'-0"	0'-1 3/4"	D8	18	STN	WD	F1	AL	CLR-A	Provide Sound Seal
B100C	3'-0"	7'-0"	0'-1 3/4"	D8	18	STN	WD	F1	AL	CLR-A	Provide Sound Seal
B100D	3'-0"	7'-0"	0'-1 3/4"	D8	27	STN	WD	F1	AL	CLR-A	Provide Sound Seal
B100E	3'-0"	7'-0"	0'-1 3/4"	D8	27	STN	WD	F1	AL	CLR-A	Provide Sound Seal
B101AA	6'-0"	7'-0"		D13	B	CLR-A	AL	See CW6 (Sheet AE603)	AL	CLR-A	Provide ADA accessible automatic door opening system
B101AB	6'-0"	7'-0"		D13	A	CLR-A	AL	See CW1 (Sheet AE602	AL	CLR-A	Provide card reader, ADA accessible automatic door opening system
B101AC	6'-0"	7'-0"		D13	C	CLR-A	AL	See CW1 (Sheet AE602)	AL	CLR-A	
B101AD	6'-0"	7'-0"		D13	D	CLR-A	AL	See CW6 (Sheet AE603)	AL	CLR-A	
B101B	3'-0"	7'-0"	0'-1 3/4"	D8	27	STN	WD	F1	AL	CLR-A	Provide Premium Sound Seal
B101C	3'-0"	7'-0"	0'-1 3/4"	D8	27	STN	WD	F1	AL	CLR-A	Provide Premium Sound Seal
B101D	3'-0"	7'-0"	0'-1 3/4"	D6	24	PNT	HM	F1	HM	PNT	
B102A	6'-0 3/128"	7'-0"		D13	D	CLR-A	AL	See CW5 (Sheet AE603)	AL	CLR-A	Provide ADA accessible automatic door opening system
B102B	6'-0 3/128"	6'-11 5/8"		D13	G	CLR-A	AL	See CW4 (Sheet AE603)	AL	CLR-A	Provide card reader, ADA accessible automatic door opening system
B103	6'-0"	7'-0"	0'-1 3/4"	D9	13	PNT	HM	F5	HM	PNT	
B103A	3'-9"	9'-10"		D12	E	CLR-A	AL	See SF17 (Sheet AE602)	AL	CLR-A	
B103B	3'-7"	9'-10"		D12	E	CLR-A	AL	See SF18 (Sheet AE603)	HM	CLR-A	
B104	1'-6"	7'-0"	0'-1 3/4"	D6	23	PNT	HM	F1	HM	PNT	
B105	3'-0"	7'-0"	0'-1 3/4"	D6	30	STN	WD	F1	AL	CLR-A	
B106	3'-0"	7'-0"	0'-1 3/4"	D6	30	STN	WD	F1	AL	CLR-A	
B107	3'-0"	7'-0"	0'-1 3/4"	D6	25	PNT	HM	F1	HM	PNT	
B108	3'-0"	7'-0"	0'-1 3/4"	D1	24	PNT	HM	F1	HM	PNT	
B108B	3'-0"	7'-0"	0'-1 3/4"	D6	24	PNT	HM	F1	HM	PNT	
B110AA	3'-0"	7'-0"	0'-1 3/4"	D8	22	PNT	HM	F1	HM	PNT	
B110AB	3'-0"	7'-0"	0'-1 3/4"	D8	22	PNT	HM	F1	HM	PNT	
B111	6'-0"	7'-0"		D13	G	CLR-A	AL	See SF11 (Sheet AE602)	AL	CLR-A	Rough-in for card reader
B113A	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F3	AL	CLR-A	
B113B	3'-0"	7'-0"	0'-1 3/4"	D8	09	STN	WD	F1	HM	PNT	
B114	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B115	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F1	AL	CLR-A	
B116	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F1	HM	PNT	
B119	3'-0"	7'-0"	0'-1 3/4"	D6	19	STN	WD	F1	AL	CLR-A	Rough-in for card reader
B120A	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F1	AL	CLR-A	
B120B	14'-4"	5'-0"		D14		CLR-A	AL		AL		Overhead rolling security grill
B122A	3'-0"	7'-0"	0'-1 3/4"	D8	09	STN	WD	F1	HM	PNT	
B122B	3'-0"	7'-0"	0'-1 3/4"	D8	09	STN	WD	F1	AL	CLR-A	
B123	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B124	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B125	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B126A	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B126B	2'-4"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F1	HM	PNT	
B200A	3'-0"	7'-0"	0'-1 3/4"	D6	29	STN	WD	F3	AL	CLR-A	Rough-in for card reader
B200B	3'-0"	7'-0"		D6	29	CLR-A	AL	F3	AL	CLR-A	Rough-in for card reader
B201	3'-0"	7'-0"	0'-1 3/4"	D8	09	STN	WD	F1	HM	PNT	

DOOR SCHEDULE

Number	Door Width	Door Height	Door Thickness	Door Type	Hardware Set	Door Finish	Door Material	Frame Type	Frame Material	Frame Finish	Comments
B202	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B203	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B204	3'-0"	7'-0"	0'-1 3/4"	D8	09	STN	WD	F1	HM	PNT	
B205	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B206	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B207	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B208	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B209	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B210	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B211	3'-0"	7'-0"	0'-1 3/4"	D6	33	STN	WD	F3	HM	PNT	Provide Sound Seal
B212A	3'-0"	7'-0"	0'-1 3/4"	D6	10	STN	WD	F3	HM	PNT	Provide Sound Seal
B212B	3'-0"	7'-11"		D12	I	CLR-A	AL	See SF33 (Sheet AE603)	AL	CLR-A	
B213A	4'-0"	7'-0"		D16	K			See SF47 (Sheet AE604)			Custom Frameless Glass Door w/ Floor Latch & Lock, 36" Ladder Pull Hardware
B213B	4'-0"	7'-0"		D16	K			See SF46 (Sheet AE604)			Custom Frameless Glass Door w/ Floor Latch & Lock, 36" Ladder Pull Hardware
B214A	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B214B	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F3	HM	PNT	
B215	3'-0"	7'-0"	0'-1 3/4"	D6	25	STN	WD	F1	HM	PNT	
B216	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F3	AL	CLR-A	
B217	3'-0"	7'-0"	0'-1 3/4"	D6	25	PNT	HM	F1	HM	PNT	
B219	3'-0"	7'-0"	0'-1 3/4"	D6	25	PNT	HM	F1	HM	PNT	
B220	3'-0"	7'-0"	0'-1 3/4"	D6	22	STN	WD	F1	HM	PNT	
B221	3'-0"	7'-0"	0'-1 3/4"	D6	31	STN	WD	F1	AL	CLR-A	
B222	3'-0"	7'-0"	0'-1 3/4"	D6	31	STN	WD	F1	AL	CLR-A	
B223A	3'-0"	7'-0"	0'-1 3/4"	D7	19	STN	WD	F1	AL	CLR-A	
B223B	3'-0"	7'-0"	0'-1 3/4"	D7	19	STN	WD	F1	AL	CLR-A	
B223C	6'-0"	6'-10"	0'-2"	D10	12	STN	WD	F5	AL	CLR-A	Provide Premium Sound Seal
B224A	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F1	HM	PNT	
B224B	4'-0"	7'-0"	0'-2"	D9	13	STN	WD	F5	HM	PNT	
B224C	2'-6"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F1	HM	PNT	
B224D	3'-0"	7'-11"		D12	J	CLR-A	AL	See SF31 (Sheet AE603)	AL	CLR-A	
B224E	3'-0"	7'-11"		D12	J	CLR-A	AL	See SF31 (Sheet AE603)	AL	CLR-A	
B225B	3'-0"	7'-0"	0'-1 3/4"	D7	09	STN	WD	F1	HM	PNT	
B227	3'-0"	7'-0"	0'-1 3/4"	D6	10	STN	WD	F1	HM	PNT	Provide Premium Sound Seal
B228	3'-0"	7'-0"	0'-1 3/4"	D6	20	STN	WD	F1	HM	PNT	
B229	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F1	HM	PNT	
B230	3'-0"	7'-0"	0'-1 3/4"	D6	20	STN	WD	F1	HM	PNT	
B231	3'-0"	7'-0"	0'-1 3/4"	D6	09	STN	WD	F1	HM	PNT	
B232A	3'-0"	7'-0"	0'-1 3/4"	D6	16	STN	WD	F1	HM	PNT	
B232B	2'-6"	7'-0"	0'-1 3/4"	D6	15	STN	WD	F1	HM	PNT	
B233	3'-0"	7'-0"	0'-1 3/4"	D6	17	STN	WD	F1	HM	PNT	Provide Sound Seal
C100A	3'-0"	7'-0"	0'-1 3/4"	D5	27	PNT	HM	F2	HM	PNT	Provide Sound Seal
C100AA	6'-0"	7'-0"	0'-1 3/4"	D4		CLR-A	AL	F5	AL	CLR-A	Provide ADA accessible automatic door opening system
C100B	6'-0 15/256"	7'-0"		D13	G	CLR-A	AL	See SF1 (Sheet AE602)	AL	CLR-A	Provide card reader
C100C	3'-0"	7'-0"		D12	F	CLR-A	AL	See SF22 (Sheet AE603)	AL	CLR-A	
C100CA	6'-0"	7'-0"	0'-1 3/4"	D4	03	CLR-A	AL	F6	AL	CLR-A	Provide card reader, ADA accessible automatic door opening system
C100D	3'-0"	7'-0"	0'-1 3/4"	D8	27	STN	WD	F1	AL	CLR-A	Provide Sound Seal
C101A	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Overhead Coiling Door
C101B	3'-0"	7'-0"	0'-1 3/4"	D1	04	PNT	HM	F1	HM	PNT	
C102	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C102A	3'-0"	7'-0"	0'-1 3/4"	D6	16	PNT	HM	F1	HM	PNT	
C102B	3'-0"	7'-0"	0'-1 3/4"	D1	16	PNT	HM	F2	HM	PNT	
C103A	3'-0"	7'-0"	0'-1 3/4"	D1	04	PNT	HM	F1	HM	PNT	
C103AA	3'-0"	7'-0"	0'-1 3/4"	D1	32	PNT	HM	F1	HM	PNT	
C103B	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C104	3'-0"	7'-0"	0'-1 3/4"	D5	15	PNT	HM	F2	HM	PNT	
C105	3'-0"	7'-0"	0'-1 3/4"	D5	15	PNT	HM	F2	HM	PNT	
C106	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C107A	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C107B	3'-0"	7'-0"	0'-1 3/4"	D1	04	PNT	HM	F1	HM	PNT	
C108	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C109	3'-0"	7'-0"	0'-1 3/4"	D1	02	PNT	HM	F1	HM	PNT	
C110	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C111	3'-0"	7'-0"	0'-1 3/4"	D1	22	PNT	HM	F2	HM	PNT	
C112	3'-0"	7'-0"	0'-1 3/4"	D5	15	PNT	HM	F2	HM	PNT	
C113	3'-0"	7'-0"	0'-1 3/4"	D5	15	PNT	HM	F2	HM	PNT	
C114	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C115	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C116	3'-0"	7'-0"	0'-1 3/4"	D5	22	PNT	HM	F2	HM	PNT	
C118	3'-0"	7'-0"	0'-1 3/4"	D1	20	PNT	HM	F2	HM	PNT	
C120	3'-0"	7'-0"	0'-1 3/4"	D1	20	PNT	HM	F2	HM	PNT	
C121A	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C121B	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C121C	3'-0"	7'-0"	0'-1 3/4"	D1	04	PNT	HM	F1	HM	PNT	
C121D	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C121E	14'-0"	14'-0"	0'-1 3/8"	D15	04	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C121F	3'-0"	7'-0"	0'-1 3/4"	D1	04	PNT	HM	F1	HM	PNT	
C121G	14'-0"	14'-0"	0'-1 3/8"	D15	01	PNT	ST	F8	ST	PNT	Insulated Sectional Door
C122	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C123	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C124	3'-0"	7'-0"	0'-1 3/4"	D1	15	PNT	HM	F2	HM	PNT	
C201	3'-0"	7'-0"	0'-1 3/4"	D6	16	CLR-A	AL	F3	AL	CLR-A	
C202D	3'-0"	7'-0"	0'-1 3/4"	D1	25	PNT	HM	F1	HM	PNT	
C206A	8'-0"	8'-0"	0'-1 3/4"	D2	06	PNT	HM	F5	HM	PNT	
C206B	8'-0"	8'-0"	0'-1 3/4"	D2	07	PNT	HM	F5	HM	PNT	
C206C	6'-0"	7'-0"	0'-1 3/4"	D2	26	PNT	HM	F5	HM	PNT	
C206D	3'-0"	7'-0"	0'-1 3/4"	D1	08	PNT	HM	F2	HM	PNT	

GENERAL DOOR & WINDOW SCHEDULE NOTES

1	SEE SHEET AE605 FOR DOOR/FRAME TYPE ELEVATIONS
2	PROVIDE HORIZONTAL ALUMINUM BLINDS AT ALL HOLLOW METAL INTERIOR WINDOWS INCLUDING SIDE LIGHTS AND TRANSOMS U.N.O

DOOR AND FRAME FINISH KEY:

MATERIAL
HM- HOLLOW METAL
AL- ALUMINUM
ST- STEEL
WD-WOOD

FINISH
PNT- FOR INTERIOR PAINT TO MATCH ADJACENT WALL FINISH U.N.O.FOR EXTERIOR USE (PNT-10) SEE AE611
CLR-A- CLEAR ANNODIZED ALUMINUM
STN- FINISH TO MATCH (WV1) SEE FINISH SCHEDULE ON AE/611

WINDOW SCHEDULE

Type Mark	Description	Comments
CW1	Curtain Wall System	
CW2	Curtain Wall System	Provide Roller Shade @ Room B233
CW3	Curtain Wall System	Provide Roller Shade @ Room B233
CW4	Curtain Wall System	
CW5	Curtain Wall System	
CW6	Curtain Wall System	
CW7	Curtain Wall System	
SF1	Storefront System	
SF2	Storefront System	
SF3	Storefront System	Provide Roller Shade
SF4	Storefront System	Provide Roller Shade
SF4A	Storefront System	Provide Roller Shade
SF5	Storefront System	Provide Roller Shade
SF5A	Storefront System	Provide Roller Shade
SF6	Storefront System	Provide Roller Shade
SF7	Storefront System	Provide Roller Shade
SF8	Storefront System	Provide Roller Shade
SF9	Storefront System	Provide Roller Shade

WINDOW SCHEDULE

Type Mark	Description	Comments
SF10	Storefront System	Provide Roller Shade
SF11	Storefront System	
SF12	Storefront System	
SF13	Storefront System	
SF14	Storefront System	
SF15	Storefront System	
SF17	Storefront System	Provide Motorized Roller Shade
SF18	Storefront System	Provide Motorized Roller Shade
SF19	Storefront System	Provide Motorized Roller Shade
SF20	Storefront System	Provide Roller Shade
SF21	Storefront System	Provide Roller Shade
SF22	Storefront System	
SF27	Storefront System	
SF28	Storefront System	Provide Roller Shade
SF28A	Storefront System	Provide Roller Shade
SF29	Storefront System	Provide Roller Shade
SF30	Storefront System	Provide Motorized Roller Shade
SF31	Storefront System	Provide Motorized Roller Shade @ Room B224

WINDOW SCHEDULE

Type Mark	Description	Comments
SF32	Storefront System	Provide Roller Shade
SF33	Storefront System	Provide Roller Shade
SF34	Storefront System	Provide Roller Shade
SF35	Storefront System	Provide Roller Shade
SF36	Storefront System	Provide Roller Shade
SF37	Storefront System	Provide Roller Shade
SF37A	Storefront System	Provide Roller Shade
SF38	Storefront System	Provide Roller Shade
SF39	Storefront System	Provide Roller Shade
SF40	Storefront System	Provide Roller Shade
SF41	Storefront System	Provide Roller Shade
SF42	Storefront System	Provide Roller Shade
SF43	Storefront System	Provide Roller Shade
SF44	Storefront System	Provide Roller Shade
SF45	Storefront System	Provide Roller Shade
SF46	Storefront System	
SF47	Storefront System	
SF48	Storefront System	

WINDOW SCHEDULE

Type Mark	Description	Comments
SF49	Storefront System	
SF50	Storefront System	
SF51	Storefront System	
SF52A	Storefront System	
SF52B	Storefront System	
SF52C	Storefront System	
SF52D	Storefront System	
SF52E	Storefront System	
SF52F	Storefront System	
SF52G	Storefront System	
SF52H	Storefront System	
SF53	Storefront System	
SF54	Storefront System	
SF55	Storefront System	
SF55A	Storefront System	

WINDOW SCHEDULE - CONT.

Type Mark	DETAIL Head 2	DETAIL Jamb 2	DETAIL Sill 2	Sill Height	Comments
4063					4'x8' Unit Skylights
SF54	See Window Elevation	See Window Elevation	See Window Elevation	16'-0"	Storefront System
W1	"	"	"	3'-2"	
W5	"	"	"	3'-2"	
W6	"	"	"	3'-2"	

WINDOW SCHEDULE - CONT.

Type Mark	DETAIL Head 2	DETAIL Jamb 2	DETAIL Sill 2	Sill Height	Comments
W7	"	"	"	3'-2"	
W8	"	"	"	2'-10"	
W10	"	"	"		
W11	"	"	"		
W12	"	"	"	3'-4"	
W14	"	"	"	2'-10"	

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

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Door & Window Schedules

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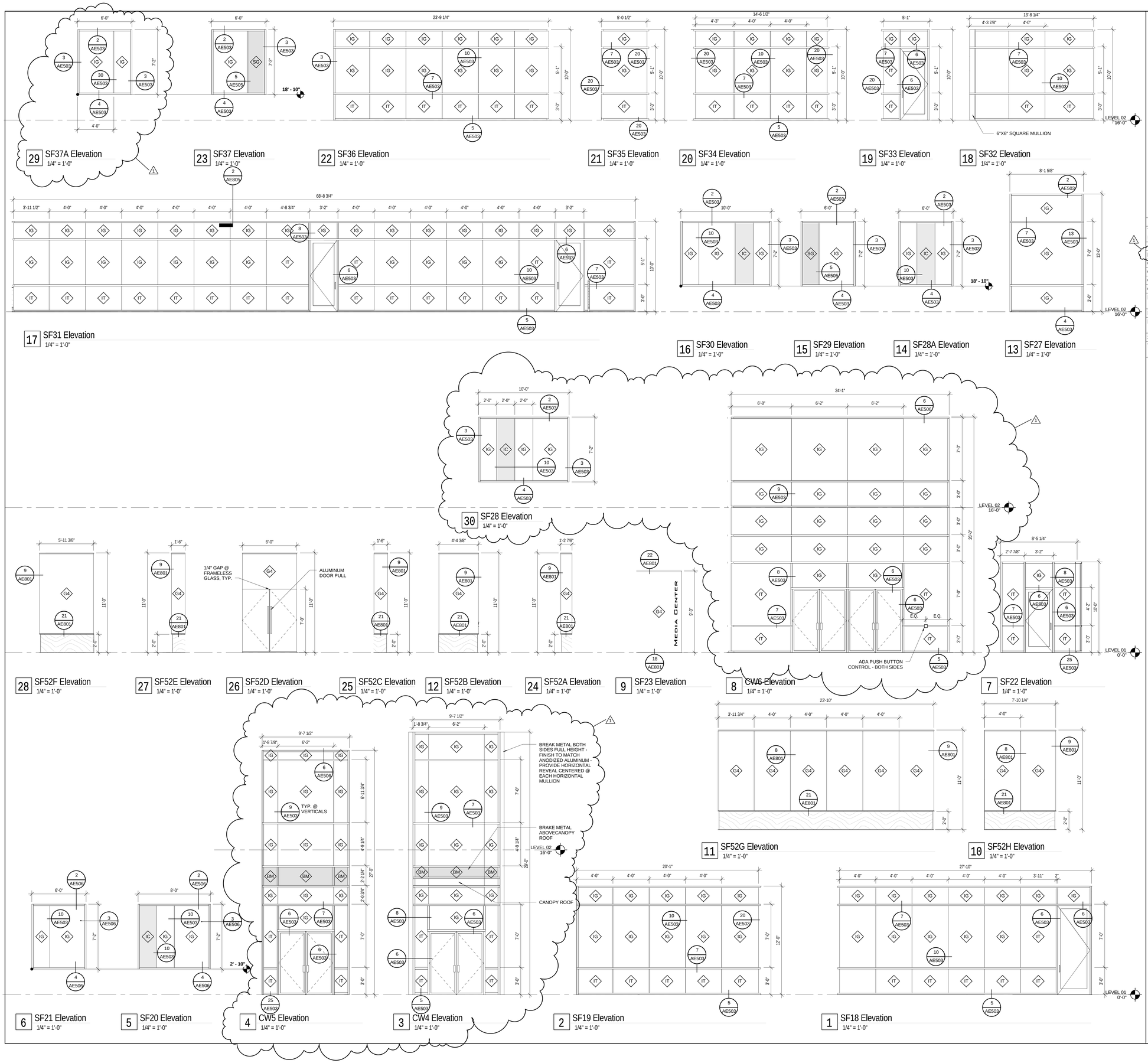
AE601

100% Construction Documents



GLAZING SCHEDULE

Type Mark	Type	Comments
BM	Aluminum Infill Panel	
G1	1/4" Clear Glass	
G2	1/4" Clear Tempered Glass	
G3	1/2" Clear	
G4	1/2" Clear Tempered	
IC	1" Dbl Glazed Insulated Unit w/ Low-E color	Colored Low-E Coated Glass
IG	1" Dbl Glazed Insulated Unit	
IT	1" Dbl Glazed Insulated Unit - Tempered	Clear Low-E Coated Glass
SG	Spandrel Glass	Insulated 1"
TG	1 3/4" Trpl Glazed Insulated Unit - Tempered	

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

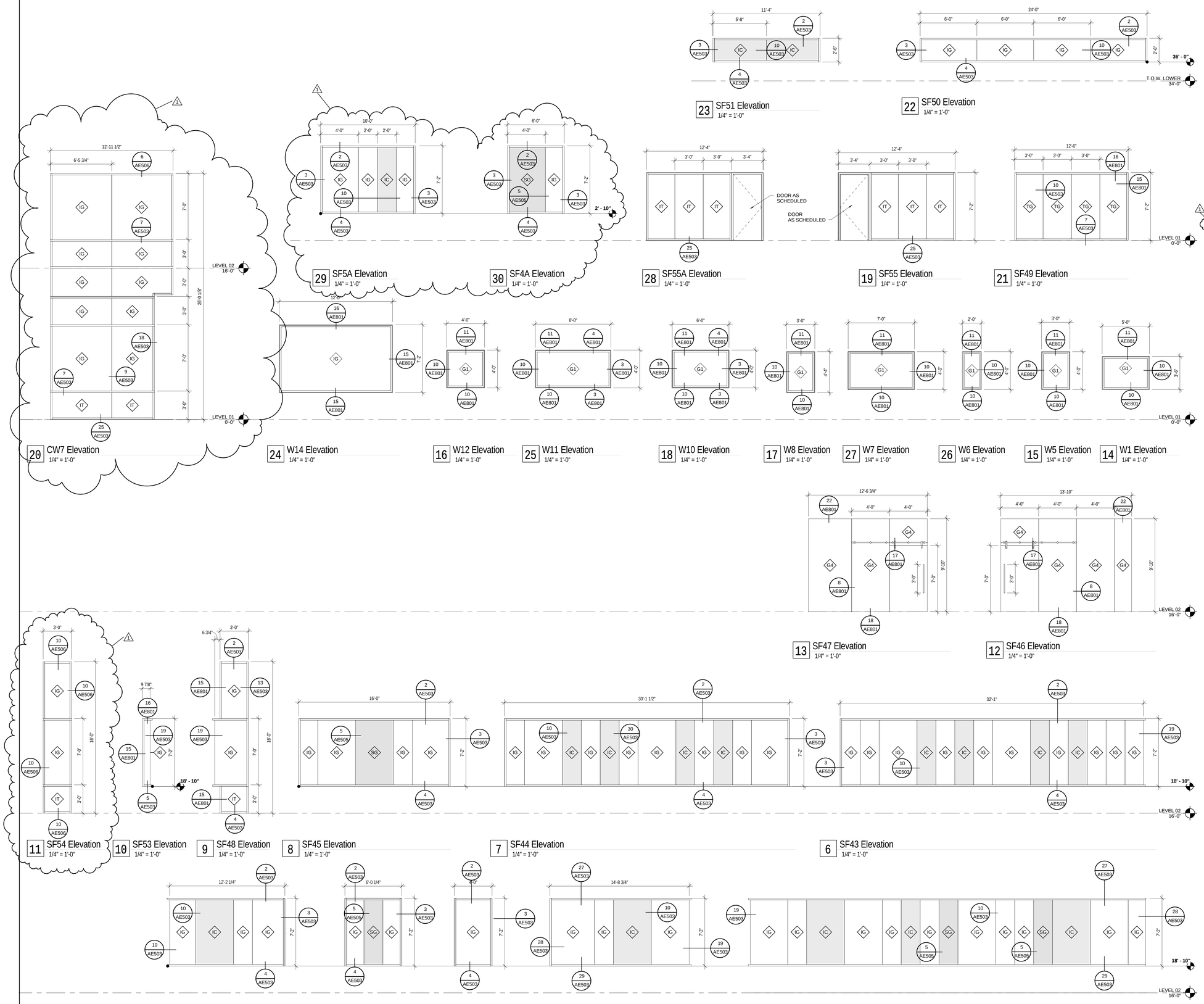
project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012

Window Elevations

sheet:
AE603

100% Construction Documents



GLAZING SCHEDULE

Type Mark	Type	Comments
BM	Aluminum Infill Panel	
G1	1/4" Clear Glass	
G2	1/4" Clear Tempered Glass	
G3	1/2" Clear	
G4	1/2" Clear Tempered	
IC	1" Dbl Glazed Insulated Unit w/ Low-E color	Colored Low-E Coated Glass
IG	1" Dbl Glazed Insulated Unit	
IT	1" Dbl Glazed Insulated Unit - Tempered	Clear Low-E Coated Glass
SG	Spandrel Glass	Insulated 1"
TG	1 3/4" Trpl Glazed Insulated Unit - Tempered	

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INTERIOR FINISH LEGEND

NOTE: SCHEDULED MATERIALS AND FINISHES SHALL BE USED FOR BASIS OF DESIGN.

CODE	MATERIAL	MANUFACTURER	PRODUCT NAME / NUMBER	COLOR / FINISH	SIZE	COMMENTS
CARPET						
CPT-1	Carpet Tile	Interface Flor	126690250H raw	101058 Depot	50cm x 50cm	Direct Glue; Quarter Turn Installation.
CPT-2	Carpet Tile	Interface Flor	1391202500 Alliteration 24Z	9730 Parchment/Aspargus	50cm x 50cm	Direct Glue; Brick Installation.
CPT-3	Carpet Tile	Interface Flor	138570250H Monochrome	101857 Asparagus	50cm x 50cm	Direct Glue; Brick Installation.
CPT-4	Carpet Tile	Interface Flor	1391202500 Alliteration 24Z	9724 Mineral/Persimmon	50cm x 50cm	Direct Glue; Brick Installation. In room A125 back w/NexStep
CPT-5	Carpet Tile	Interface Flor	138570250H Monochrome	101818 Persimmon	50cm x 50cm	Direct Glue; Brick Installation.
CPT-6	Walk-Off-Mat	Mats Inc.	Slip-Not 2000 Tile	Dark Gray	19 1/16" x 19 1/16"	Direct Glue w/ matting Release Band Adhesive; Quarter Turn Installation.
VINYL						
SV-1	Sheet Vinyl	Marmoleum	Striato	3575 White Cliffs	79"W x 105"L	Provide seaming diagram for approval. Refer to finish plan for pattern direction. Seams to be scribed tightly together and hand rolled for a clean and concealed seam. Install using Forbo recommended adhesive #L885; Flooring shall be installed by a master certified mechanic. NO WAX!
SV-2	Sheet Vinyl	Marmoleum	Striato	3570 Stormy Weather	79"W x 105"L	Provide seaming diagram for approval. Refer to finish plan for pattern direction. Seams to be scribed tightly together and hand rolled for a clean and concealed seam. Install using Forbo recommended adhesive #L885; Flooring shall be installed by a master certified mechanic. NO WAX!
VF-1	Vinyl Flooring	Shaw Floors	0008V Decowood	02544 Teak-Green	4"W Planks x 36" L	Direct glue; NO WAX!
SCF-1	Static Control Floor.	VPI	Static Control Flooring	152 Winter White	12" x 12"	To be used with raised flooring system - Refer to specifications for raised flooring information. NO WAX!
CONCRETE						
SC-1	Sealed Concrete					Seal floor w/ pentra-sil or equal.
PSC-1	Polished Sealed Concrete	Stone Touch	Polished Concrete	Natural Gray	Expansion Joints @ 12' O.C.	Polish floor w/ 800 grit diamond pad to expose aggregate; Finish with (1) coat pentra-sil and (2) coats pentra-guard; joints to be saw cut-not tooled; Flooring to be installed/finished by a certified applicant. Contractor to provide joint diagram to architect for approval.
WOOD FLOORING						
WF-1	Wood Flooring	Nydree Flooring	COR Collection	Natural	4"W x 3/8" Thick	See finish plan for floor direction.
TILE						
T-1	Ceramic Tile	Daltile	Identity Glazed Wall Tile	MY67 Paramount White / Matte	8" x 20"	3/32" Grout Joint; Laticrete 1600 unsanded grout; 44 Bright White; Thinset back butter tiles; Precise miter required at outside corners - no corner trim.
T-2	Porcelain Tile	Daltile	Cliff Point	Rock CP84	12" x 12"	1/8" grout joint; Laticrete SpecktralLock Pro epoxy grout; 24 Natural gray. Kitchen B107 & B108: Tile to be thick set, submit tile layout for approval. Instruction toilet A115: Tile to be thin set
T-3	Ceramic Tile	Daltile	Glazed Wall Tile	0790 Arctic White / Matte	4 1/4" x 4 1/4"	3/32" Grout Joint; Laticrete 1600 unsanded grout; 44 Bright White.
T-4	Ceramic Tile	Daltile	Glazed Wall Tile	0766 Elemental Tan Matte	4 1/4" x 4 1/4"	3/32" Grout Joint; Laticrete 1600 unsanded grout; 27 Hemp.
T-5	Ceramic Tile	Contempo Tile	Linen ST Steel	Liner Bar	2" x 8"	3/32" Grout Joint; Laticrete 1600 unsanded grout; 78 Sterling Silver; Run tile Vertically.
T-6	Ceramic Tile	Daltile	Bullnose Edge Trim A-4402	0790 Arctic White	4 1/4" x 4 1/4"	To be used w/ T-3; 3/32" grout joint; Latticrete 1600 unsanded grout; 44 Bright White; Use coordinating inside / outside corners as required.
T-7	Ceramic Tile	Daltile	Identity Glazed Jolly Bullnose Edge	MY67 Paramount White/Matte	1" x 10"	To be used w/ T-1; Align joints with wall joints; Same grout as T-1.
T-8	Porcelain Tile	Flor Gres / Contempo Tile	Architect / Decor	Natural Ash Gray	8" x 32"	3/32" Grout Joint; Laticrete 1600 unsanded grout; 24 natural gray; Use medium bed mortar at wall tile - megalite; Precise miter required at outside corners - no trim / align wall tile with floor joints.
T-9	Ceramic Tile	Daltile	Bullnose Edge Trim A-4402	0766 Elemental Tan Matte	4 1/4" x 4 1/4"	To be used w/ T-4; Laticrete 1600 unsanded; 27 Hemp; Use coordinating inside / outside corners as required.
T-10	Porcelain Tile	Flor Gres / Contempo Tile	Architect / Decor	Natural Ash Gray	2" x 2" Mosaic in 12" x 12" Sheet	Laticrete 1500 sanded grout; 24 natural gray.
BASE						
RB-1	Rubber Base	Johnsonite	100% Vulcanized Rubber	184 Daffy Dil	4"H	Coved profile; Provide base in 120' coils.
RB-2	Rubber Base	Johnsonite	100% Vulcanized Rubber	28 Shoreline	4"H	Straight Profile; Provide Base in 120' coils.
RB-3	Rubber Base	Johnsonite	100% vulcanized Rubber	50 White	4"H	Straight Profile; Provide Base in 120' coils.
RB-4	Rubber Base	Johnsonite	100% vulcanized Rubber	50 White	4"H	Coved profile; Provide base in 120' coils.
RB-5	Rubber Base	Johnsonite	100% vulcanized Rubber	290 Tea Green	4"H	Coved profile; Provide base in 120' coils.
RB-6	Rubber Base	Johnsonite	100% vulcanized Rubber	38 Pewter	4"H	Coved profile; Provide base in 120' coils.
RB-7	Rubber Base	Johnsonite	100% vulcanized Rubber	38 Pewter	4"H	Straight Profile; Provide Base in 120' coils.
RB-8	Rubber Base	Johnsonite	100% vulcanized Rubber	290 Tea Green	4"H	Straight Profile; Provide Base in 120' coils.
SCB-1	Sheet Vinyl	Marmoleum	Self-Coved Base		6"H	Self -Cove base to match adjacent sheet vinyl. Johnsonite cove filler strip CFS-00-MINR. Johnsonite cove cap SC-28-B medium gray to be used with (SV2). Johnsonite cove cap SC-22-B color to be used with (SV-1).
WB-1	Wood Base	Hardwood	QC White Oak	Stained to Match WC-1	3/4" x 6"H	Use maximum length pieces to minimize seams; end match grain for a continuous look; Finish with (4) coats of clear polyurethane; Ease outside edge 1/8" Radius.
MB-1	Metal Base			Satin Annodized Alumminum	2 1/2"H	Direct glue to wall; Use maximum length to minimize seams.
MB-2	Metal Base (tile wall to PSC Floor)	Schluter	Dilex-AHKA-AE	Satin Annodized Alumminum	3/8" R	Contractor to select appropriate size to coordinate with tile thickness per application. Provide inside/outside corners as required.
MB-3	Metal Base (tile to tile)	Schluter	Dilex-AHK-AE	Satin Annodized Alumminum	3/8" R	Contractor to select appropriate size to coordinate with tile thickness per application. Provide inside/outside corners as required.
TB-1	Tile Base	Daltile	Cliff Pointe	CP84 Rock	6" x 12"	Align joints with floor joints; 1/8" grout joint; Latictrete spectraloc; 24 Natural Gray.
PAINT						
PNT-1	Paint	Kwal		CL1972M Envy		Refer to specifications for paint finish per substrate.
PNT-2	Paint	Sherwin Williams		SW7651 Front Porch		Refer to specifications for paint finish per substrate.
PNT-3	Paint	Kwal		CLW1011W Mere Mortal		Refer to specifications for paint finish per substrate.
PNT-4	Paint	Sherwin Williams		SW7068 Grizzly Gray		Refer to specifications for paint finish per substrate.
PNT-5	Paint	Sherwin Williams		SW6668 Sunrise		Refer to specifications for paint finish per substrate.
PNT-6	Paint	ICI Paints		90YY 35/304 Napa Valley		Refer to specifications for paint finish per substrate.
PNT-7	Not Used					
PNT-8	Not Used					
PNT-9	Paint	ICI Paints		LT200-92 Quiet Echo		Refer to specifications for paint finish per substrate.
PNT-10	Paint	Kwal		CL3013M Artesian		Refer to specifications for paint finish per substrate.
WALL COVERING						
WC-1	Wall Covering	Sanfoot	QC Teak	Product is pre-finished	3' x 9'	Gypsum board finished to a level 4 finish or higher. Installation: By SanFoot authorized installer in accordance with installation instructions (Doc. #301) Wall-covering to be End & Sequence-book Match. Provide flitch sample to match architects sample for approval prior to ordering. Apply (1) coat low sheen polyurethane finish; do test section and get written approval from Architectural before proceeding.
WC-2	Wall Covering	MDC	Hansen Natural Textiles	MNT6396 TIMBER	54" Wide	Gypsum board to be finished to a level 4 finish or higher.Wrap outside corners; Do not end wall covering on an outside corner.
WP-1	Wall Protection	CS Acrovyn	Acrovyn 4000 Wall covering	#315 Galveston Gray / Suede	0.04" Thick / 4' x 8'	Provide standard "H" trim at vertical joints, standard inside / outside corner trim, and wainscot trim in coordinating color.
WOOD VENEER						
WV-1	Wood Veneer	Formwood	Teak, Quarter Cut	-		Finish w/clear low sheen polyurethane finish; 2 coats min. Running book match. Provide flitch sample to match architects sample for approval prior to ordering.
PLASTIC LAMINATE						
PL-1	Plastic Laminate	Wilsonart Laminate	7209K-78	Nepal Teak		Run wood grain vertically.
PL-2	Not Used					
PL-3	Plastic Laminate	Abet Laminati	130	Lucida		
PL-4	Plastic Laminate	Abet Laminati	1177	Soft		
PL-5	Plastic Laminate	Abet Laminati	877	Multirighe		
STONE						
STN-1	Quartz	Ceasarstone	2030		3/4" Thick Slab	Square Edge; Miter Corners.
STN-2	Quartz	One Quartz Surface	NQ24 Stormy Sky	Polished	3/4" Thick Slab	Square Edge; Miter Corners.
CUBICAL CURTAIN						
CB-1	Cubicle Curtain	Maharam	Felix by Kvadrat 283731	109	Curtain Fabric: Width 55" Repeat 55" H	Mesh: 24"L Coral Fabrics, Carnivel Net ITT, White, 22" W, 1/2" Grid , 6" Grommets On Center. Cubicle Curtain Track (Typical) supplied by contractor:Track (Pryor Atlas or Kirsch #7900); Carriers (Pryor#223 carrier with #214 end stop or Kirsch #7918 carrier with end stops 7910 and 7911 min. 2.3 self-lubricating nylon wheels per linear foot grommets); Grommets (6" on center; used to determine number of carriers) Bottom of curtain shall be 12" AFF. Contractor to field verify curtain length.
ACOUSTICAL CEILING TILE						
ACT-1	Ceiling System	Armstrong	1912 Ultima Beveled Tegular	White/Durabright	24"x24"x3/4"	9/16" Grid-White; .90 Light Reflectance; .70 NRC; BioBlock Antimicrobial.
ACT-2	Ceiling System	Armstrong	1915 Ultima Beveled Tegular	White/Durabright	24"x48"x3/4"	9/16" Grid-White; .90 Light Reflectance; .70 NRC; BioBlock Antimicrobial.
ACT-3	Ceiling System	Armstrong	3905 Optima Open Plan Vector	White/Durabright	30"x30"x7/8"	Vector 15/16" Grid-White; .90 Light Reflectance; .90 NRC; Inherent Antimicrobial.
ACT-4	Ceiling System	Armstrong	1936 Health Zone Ultima Beveled Tegular	White/Durabright	24"x24"x3/4"	9/16"Suprafine Grid System-White; .86 Light Reflectance; .70 NRC; BioBlock Antimicrobial; HumiGuard Plus.
INTERIOR ELEVATOR						
ELEV-1	Interior Elevator Car System	Thyssen Krupp	TKAP Cab	- -	- -	WALLS: Formica white wall panels; Brushed stainless steel base/reveal/frieze; HANDRAIL: 1.5" Cylindrical w/straight ends, brushed stainless steel finish; FINISH CEILING: island type w/halogen down-light w/brushed stainless steel panel; Regular cab height; DOOR and SILL: one-speed door, right-hand opening, brushed SST door, aluminum sill; FRONT RETURN & FIXTURES: column type return; brushed SST front; Signa 4 fixtures.
TRANSITION STRIPS						
TS-1	Transition Strip (CPT to PSC)	Schluter (Rep: 801-209-2295)	RENO-U AEU35	Satin Annodized Alumminum	1/8"	Set to substrate w/ 2-part epoxy-trowel off tightly to trim; (contact Rep. for TS installation questions 801-209-2295).
TS-2	Transition Strip (CPT to PSC)	Schluter (Rep: 801-209-2295)	RENO-U RAMP AERP100B65	Satin Annodized Alumminum	3/8"	Set to substrate w/ 2-part epoxy- 1/8" feather coat on top of anchoring leg to align face of carpet w/ high point of trim.
TS-3	Transition Strip (CPT to SV/VF)	Schluter (Rep: 801-209-2295)	Schiene AE45	Satin Annodized Alumminum	3/16"	Set to substrate w/ 2-part epoxy- Trowel off tightly to trim.
TS-4	Transition Strip (SV to PSC/SC)	Schluter (Rep: 801-209-2295)	RENO-U AEU35	Satin Annodized Alumminum	1/8"	Set to substrate w/ 2-part epoxy-feather coat on top of anchoring leg to align face of sheet vinyl with trim.
TS-5	Transition Strip (Tile to PSC)	Schluter (Rep: 801-209-2295)	RENO-U AEU100	Satin Annodized Alumminum	3/8"	Set with thin-set.
TS-6	Transition Strip (Tile to CPT)	Schluter (Rep: 801-209-2295)	Schiene AE100	Satin Annodized Alumminum	3/8"	Set trim with thin-set; float carpet 1/8" per foot to align face of carpet with tile.
TS-7	Transition Strip (CPT to WF)	Schluter (Rep: 801-209-2295)	Schiene AE80	Satin Annodized Alumminum	5/16"	Set w/ wood adhesive ; float carpet 1/8" per foot to align face of carpet with face of wood flooring.
TS-8	Transition Strip (CPT-6 to PSC)	Schluter (Rep: 801-209-2295)	RENU-U AEU100	Satin Annodized Alumminum	3/8"	Set to substrate w/ 2-part epoxy-trowel off tightly to trim; (contact Rep. for TS installation questions 801-209-2295).

NOTE:
1. Refer to window schedule and specifications for infomation on blinds.

ROOM FINISH SCHEDULE

ROOMS		FLOORS		WALL				
Number	Name	Floor Finish	Base Finish	North Wall	East Wall	South Wall	West Wall	Comments
A100	CORRIDOR	PSC-1	*	*	*	*	*	* Refer to finish plan
A101	MEDICAL ASSISTING CLASSROOM	*	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	* Refer to finish plan
A102	TESTING	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A103	STORAGE	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A104	MEDICAL ASSISTING LAB	*	SCB-1	*	*	*	*	* Refer to finish plan
A104A	LAB RECEPTION	*	SCB-1	*	*	*	*	* Refer to finish plan
A105	MA Office	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A106	SURGERY	SV-2	SCB-1	PNT-9	PNT-9	PNT-9	PNT-9	
A107	EXAM	SV-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A108	XRAY	SV-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A109	X-RAY CONTROL	SV-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A110	OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A111	OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A112	OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A113	TOILET	PSC-1	MB-2	*	*	*	*	* Refer to elevations
A114	LAUNDRY	PSC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A115	INSTRUCTION TOILET	T-2	MB-3	*	*	*	*	* Refer to elevations
A116	OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A117	CNA STORAGE	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A118	JANITOR	SC-1	RB-4	*	*	PNT-9	PNT-9	* Refer to elevations
A119	CONTROL	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A120	SIM ROOM	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A121	ELECTRICAL	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A122	LOCKER ROOM	PSC-1	*	*	*	*	*	* Refer to finish plan
A123	STORAGE	PSC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A124	TOILET	PSC-1	MB-2	*	*	*	*	* Refer to elevations
A125	CPR	**CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	** Back w/ NexStep
A126	LPN/CNA CLASSROOM	*	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	* Refer to finish plan
A127	RN CLASSROOM	*	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	* Refer to finish plan
A128	LPN/RN/CNA LAB SUITE	*	SCB-1	*	*	*	*	* Refer to finish plan
A129	STORAGE	SV-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A130	FIRE RISER ROOM	SC-1	-	-	-	-	-	
A200	CORRIDOR	PSC-1	*	*	*	*	*	* Refer to elevations
A201	BT LAB	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A202	TESTING	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A203	BT OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A204	USU CLASSROOM	CPT-4	*	PNT-9	PNT-10	PNT-10	PNT-9	* Refer to finish plan
A205	USU CLASSROOM	CPT-4	*	PNT-10	PNT-10	PNT-9	PNT-9	* Refer to finish plan
A206	IT OFFICE	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A207	IT CLASSROOM	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A208	IT TESTING	CPT-4	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
A209	IT LAB	*SCF-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	* Raised Flooring System - Refer to furniture specifications
A210	SERVER / IT STORAGE	PSC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A211	IT ADMIN	CPT-4	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
A212	IT ASSISTANT	CPT-4	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B100	CORRIDOR	PSC-1	MB-1	*	*	*	*	* Refer to elevations
B101	LOBBY	**	MB-1	*	*	*	*	*Refer to elevations for wall finish **Refer to finish plan for floor finish
B101A	VESTIBULE	*	-	-	-	-	-	* Refer to finish plan
B102	VESTIBULE	CPT-6	*MB-1	-	PNT-9	-	PNT-9	*(MB-1) Base at east and west walls only
B103	MULTIPURPOSE ROOM	CPT-1	RB-2	PNT-3	PNT-3	PNT-3	PNT-3	
B104	STORAGE	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B105	WOMEN	PSC-1	MB-2	*	*	*	*	* Refer to elevations
B106	MEN	PSC-1	MB-2	*	*	*	*	* Refer to elevations
B107	KITCHEN STORAGE	T-2	TB-1	*	*	*	*	*Carry wall protection (WP-1) upwall 8'-0" above finish floor; Paint wall above (PNT-9)
B108	KITCHEN	T-2	*	*	*	*	*	* Refer to finish plan
B109	WALK-IN COOLER	-	-	-	-	-	-	
B110	BOOKSTORE	PSC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B110A	BOOKSTORE STORAGE	PSC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B111	CAFETERIA	PSC-1	*MB-1	*	*	*	*	* Refer to elevations & finish plans
B112	MEDIA	PSC-1	MB-1	*	*	*	*	* Refer to elevations
B113	PLACEMENT	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B114	PLACEMENT OFFICE	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B115	OFFICE	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B116	ASSESSMENT	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B117	ELEV. EQ.	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B118	ELEVATOR	CPT-1	ELEV -01	ELEV -01	ELEV -01	ELEV -01	ELEV -01	
B119	RECEPTION	PSC-1	MB-1	*	*	*	*	* Refer to elevations
B120	ENROLLMENT	CPT-2	*	*	*	*	*	* Refer to finish plan
B120A	CORRIDOR	CPT-2	*	*	*	*	*	* Refer to finish plan
B121	ENROLMENT WAITING	PSC-1	MB-1	*	*	*	*	* Refer to elevations
B122	COUNSELOR	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B123	SIS OFFICE	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B124	STORAGE / STUDENT RECORDS	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B125	SPARE OFFICE	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B126	SS VP	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B200	CORRIDOR	CPT-1	*	*	*	*	*	* Refer to finish plan
B201	DIRECTOR	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B202	CURRICULUM DEVELOPER	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B203	ASSISTANT	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B204	VP INSTRUCTION OFFICE	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B205	DIRECTOR	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B206	CUSTOM	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B207	USU OFFICE	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B208	USU OFFICE	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B209	DIRECTOR OFFICE / FINANCE	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B210	HUMAN RESOURCES	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B211	EXECUTIVE CONFERENCE ROOM	CPT-1	WB-1	WC-2	WC-2	WC-2	WC-2	

ROOM FINISH SCHEDULE

ROOMS		FLOORS		WALL				
Number	Name	Floor Finish	Base Finish	North Wall	East Wall	South Wall	West Wall	Comments
B212	PRESIDENT	CPT-1	WB-1	WC-2	WC-2	WC-2	WC-2	
B213	PRESIDENT ASSISTANT	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B214	MARKETING / OFFICE	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B215	STORAGE RECORDS	CPT-1	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B216	OPEN OFFICE 2-3 PPL	CPT-1	*	*	*	*	*	* Refer to finish plan
B217	ELECTRICAL	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B218	PRINT / STOR.	CPT-1	*	*	*	*	*	* Refer to finish plan
B219	JAN.	SC-1	RB-4	PNT-9	*	*	PNT-9	* Refer to elevations
B220	STOR.	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B221	MEN	PSC-1	MB-2	*	*	*	*	* Refer to elevations
B222	WOMEN	PSC-1	MB-2	*	*	*	*	* Refer to elevations
B223	RECEPTION / WAITING	**	MB-1	*	*	*	*	*Refer to elevations for wall finish **Refer to finish plan for floor finish
B224	BOARDROOM	CPT-1	WB-1	WC-2	WC-2	WC-2	*	*Refer to elevations
B225	KITCHEN	VF-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
B226	WORKROOM	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B227	FACULTY/ BREAK	CPT-2	RB-3	PNT-9	PNT-9	PNT-9	PNT-9	
B228	TOILET	T-8	MB-3	*	*	*	*	* Refer to elevations
B229	LOCKER/SHOWER	**T-8	MB-3	*	*	*	*	* Refer to elevations **T-10 @ shower floor
B230	TOILET	T-8	MB-3	*	*	*	*	* Refer to elevations
B231	LOCKER/SHOWER	**T-8	MB-3	*	*	*	*	* Refer to elevations **T-10 @ shower floor
B232	EXERCISE	CPT-2	RB-3	*	PNT-9	PNT-9	PNT-9	* Refer to finish plan
B233	WELLNESS	WF-1	MB-1	PNT-1	PNT-1	PNT-1	PNT-1	
C100	CORRIDOR	PSC-1	*	*	*	*	*	* Refer to finish plan
C100A	CORRIDOR	PSC-1	*	*	*	*	*	* Refer to finish plan
C100B	COORIDOR	PSC-1	*	*	*	*	*	* Refer to finish plan
C100C	VESTIBULE	CPT-6	MB-1	*	PNT-9	PNT-9	PNT-9	* Sealed tilt panel
C100D	VESTIBULE	CPT-6	*MB-1	-	PNT-9	-	PNT-9	*(MB-1) Base at east and west walls only
C101	SHELLED LAB	SC-1	-	-	-	-	-	Shell Space
C102	SHELLED CLASSROOM	SC-1	-	-	-	-	-	Shell Space
C102A	RECEIVING	SC-1	-	-	-	-	-	Shell Space
C103	CONSTRUCTION TECHNOLOGY LAB	SC-1	-	*	*	*	*	* See finsih plan
C103A	VESTIBULE	SC-1	-	CMU / PNT-10	*	CMU / PNT-10	CMU / PNT-10	* Sealed tilt panel
C104	CONSTRUCTION TECHNOLOGY CLASSROOM	**	**	CMU / PNT-9	*	CMU / PNT-9	CMU / PNT-9	** Refer to finish plan for base information * Sealed tilt panel
C105	CT STORAGE	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	
C106	CT OFFICE	CPT-4	RB-3	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C107	WELDING LAB	SC-1	-	CMU / PNT-10	*	CMU / PNT-10	*	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C108	GRINDING	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	*	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C109	MAIN ELECTRICAL	SC-1	-	-	-	-	-	
C110	SUPPLY ROOM	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	*	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C111	TOOL STORAGE	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	
C112	DIESEL CLASSROOM	SC-1	RB-4	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C113	DIESEL OFFICE	SC-1	RB-4	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C114	WELDING CLASSROOM	SC-1	RB-4	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C115	WELDING OFFICE	SC-1	RB-4	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C116	WL STORAGE	SC-1	-	CMU / PNT-10	*	CMU / PNT-10	CMU / PNT-10	* Sealed tilt panel
C117	LOCKER	PSC-1	**	CMU / PNT-9	*	CMU / PNT-9	CMU / PNT-9	** Refer to finish plan for base info. * Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C118	TOILET	PSC-1	MB-2	*	*	*	*	* Refer to elevations
C119	LOCKER	PSC-1	*	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	* Refer to finish plan for base info.
C120	TOILET	PSC-1	MB-2	*	*	*	*	* Refer to elevations
C121	CE & R LAB	SC-1	-	*	*	*	*	* See finish plan
C122	CE & R STORAGE	SC-1	-	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	CMU / PNT-10	
C123	CE & R OFFICE	SC-1	RB-4	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	CMU / PNT-9	
C124	CE & R CLASSROOM	SC-1	*	CMU / PNT-9	*	CMU / PNT-9	CMU / PNT-9	** Sealed tilt panel * Refer to finish plan for base info
C201	CDL CLASSROOM	CPT-4	*	PNT-9	PNT-9	PNT-10	PNT-10	* Refer to finish plan for base info.
C202	PUMP	SC-1	RB-6	-	PNT-10	-	PNT-10	
C203	BOILER	SC-1	RB-6	-	PNT-10	-	PNT-10	
C204	IT WORKROOM	SC-1	RB-4	PNT-9	PNT-9	PNT-9	PNT-9	
C205	STORAGE	SC-1	RB-6	PNT-10	PNT-10	PNT-10	PNT-10	
C206	CORRIDOR	SC-1	RB-6	CMU / PNT-10	PNT-10	PNT-10	PNT-10	
C208	MEZZANINE STORAGE	SC-1	-	-	-	CMU / PNT-10	*	* Sealed tilt panel up to 8'-0" above finish floor. Painted (PNT-9) gypsum wall board above to deck.
C209	STORAGE	SC-1	RB-6	PNT-10	PNT-10	CMU / PNT-10	PNT-10	

ACCESSORY SCHEDULE

NOTE: SCHEDULED ACCESSORIES SHALL BE USED FOR BASIS OF DESIGN. REFER TO ELEVATIONS FOR LOCATIONS. REFER TO ELEVATION 16/AE901 FOR TYPICAL MOUNTING HEIGHTS.

PRODUCT	MANUFACTURER	MODEL/STYLE #	FINISH	SIZE	ROOM #	COMMENTS
Mirror	GAMCO	Frameless Stainless Steel Mirrors M-series	Mirror-finish	24" X 36"	A113, A115, A124,C118, C120	Mirror
Mirror	-	20 Gauge T430 Annealed Polished Stainless Steel	Mirror-finish	15" X 42"	B105, B106, B221, B222, B228, B229, B230, B231	Custom size mirror/, 1/4" backing. Secure mirror to wall with Z-clip adhered to back of mirror. Provide prototype for architect approval.
Light fixture - Ref to Elec.						
Light fixture - Ref to Elec.						
Soap Dispenser	Bobrick	B-822 Series Soap Dispenser	Polished Chrome	-	A104, A106, A107, A128, B105, B106, B221,B222, B228, B230, B229, B231	Mount through 1" Dia hole in counter top; escutcheon 2 1/8" dia; spout to extend over rim edge of bowl
Soap Dispenser	Bobrick	B-26607 Surface-Mounted Soap Cartridge Dispenser 500ML	Satin-finish	-	A106, A128, A113, A115, A124, C118, C120	Install above sink (100-110 mm AFF); Leave space above the cover to allow exchange of container
Paper Towel Dispenser	Bobrick	B-29744 Semi-Recessed Automatic Universal Roll Paper Towel Dispenser	Satin-finish	-	All restrooms	
Waste Receptacle	Bobrick	B-43644 ConturaSeries Recessed Waste Receptacle	Satin-finish	-	All restrooms	
Toilet Paper/Seat Cover/Trash	Bobrick	B-3571 ClassicSeries Partition-Mounted Seat C./Sani. Napkin/T. Tissue	Satin-finish	-	B105/B222	
Toilet Paperl/Seat Cover	Bobrick	B-3471 ClassicSeries Partition-Mounted Seat Cover/Toilet Tissue Dis.	Satin-finish	-	B106/B221	
Toilet Paper Dispenser	Bobrick	B-6997Recessed Dual-roll Toilet Tissue Dispenser with Hoods	Satin-finish	-	A113, A115, A124, C118, C120, B228, B230 ADA/AMBULATORY STALLS: B105, B106, B221, B222	
Toilet Seat Cover	Bobrick	B-4221 ConturaSeries Surface Mounted Seat Cover Dispenser	Satin-finish	-	A113, A115, A124, C118, C120, B230	
Sanitary Napkin Disposal	Bobrick	B-270 ConturaSeries Sanitary Napkin Disposal	Satin-finish	-	A113, A115, A124, C118, C120, B230	
Grab Bars	Bobrick	B-6806 Grab Bar Concealed Mounting with Snap Flange	Satin-finish	1-1/2" Diameter	All restrooms	Length and type per location as required by code
Coat Hook	Bobrick	B-682 Hat and Coat Hook	Polished SS	6 1/2"h Hook	All restrooms	Place hook on the back of all paritiion doors for Multi-stall restrooms; refer to elevations for single use restrooms
Baby Changing Center	Bobrick	KB110-SSRE Horizontal, Recessed Mounted	Satin Stainless Steel	-	B105, B106(ADA STALL)	
Toilet Partition	Bobrick	1548.64 ClassicSeries Toilet Partition System	Custom Laminate (PL-5)	-	B105, B106, B221, B222	Refer to Floor Plans for Dimensions of Stalls; Ceiling Hung; Through-bolted SST hardware
Urinal Screen	Bobrick	1545.64 ClassicSeries Urinal Screen System	Custom Laminate (PL-5)	-	B106, B221	Refer to Floor Plans for Dimensions of Screens; Wall Hung
Wood Laminte Locker	Hollman	Model B	Wilsonart 7209k-78 Nepal Teak	72"Hx12"Wx15"D	A122, B229, B231, B115	Interior Opt. 1; Interior finish "white"; Flush Panel; Padlock HASP in Satin Chrome; Ceiling Hook;Satin Wire Chrome Pulls
Metal Locker	Lockerixchange	Vented Locker-Double Tier-1 W-6 Feet H-15" Deep (SKU 72165GY-A)	Deep Gray	12"WX78"Hx15"D	C117/C119	Add-ons: Front Base for 12" W; Sloping Hood-for 12" W; and End base-15" Deep; Continue specified base around locker base
Shower Curtain Rod	Bobrick	B-207 Shower Curtain Rod with Concealed Mounting	Satin-finish/SS	1# Dia. 36" L	B229, B231	Owner to provide curtain
Shower Seat	Bobrick	B-5181 Reversible Solid Phenolic Folding Shower Seat	Ivory Color Seat	-	B229, B231	
Paper Towel Dispenser	Bobrick	B-526 TrimLineSeries: Countertop paper Towel Dispenser	Satin Finish SS	-	A104, *A128	*At island sink only
Pass-Through-Cabinet	Bobrick	B-505 Recessed Specimen Pass-Through-Cabinet	Satin Finish SS	-	A113, A104	
Glove Dispenser	Bowman Gloves Expert	Triple box Stainless Steel Glove Dispenser (SKU GS-006)	Stainless Steel	-	A104, A106, A107, A108, A128	
Cabinet Pull	Doug Mockett	DP128 6 11/16" Round Top Pull	Satin Stainless Steel	6 11/16"	Typical Throughout	
Sanitary Napkin Vendor	Bobrick	B-37063 Trimlineseries Recessed Napkin/Tampon Vendor	Satin Stainless Steel	-	B105, B222	
Soap Dish	Bobrick	B-4380 Recessed Heavy-Duty Soap Dish	Stainless Steel	-	B229, B231	
Toilet Paper Dispenser	Bobrick	B-386 Partition-Mounted Dual-side Multi-Roll Toilet Dispenser	Satin Stainless Steel	-	B105, B106, B221, B222	
Sanitary Napkin Dispenser	Bobrick	B-4354 ConturaSeries Partition-Mounted Sanitary Disposal	Satin-finish	-	B105, B222	
Paper Towel Dispenser	Bobrick	B-262 ClassicSeries Surface-Mounted Paper Towel Dispenser	Satin-finish	-	A104, A106, A107, A128	

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012

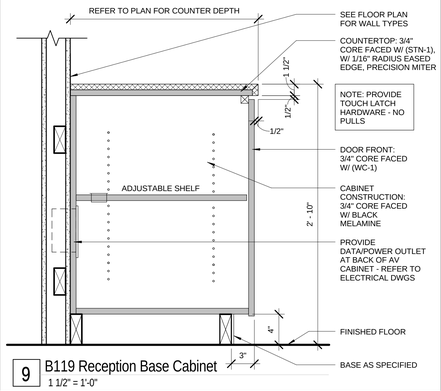
title:

Finish Schedule

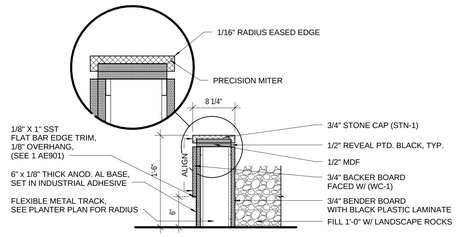
sheet:

AE611

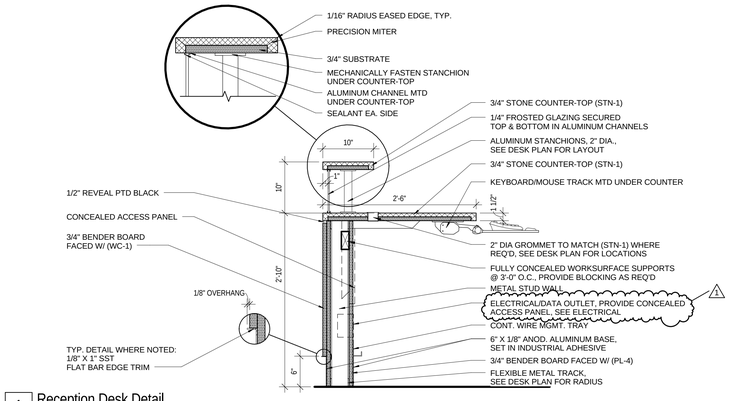
100% Construction Documents



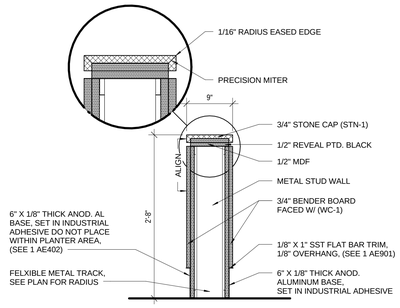
9 B119 Reception Base Cabinet
1 1/2" = 1'-0"



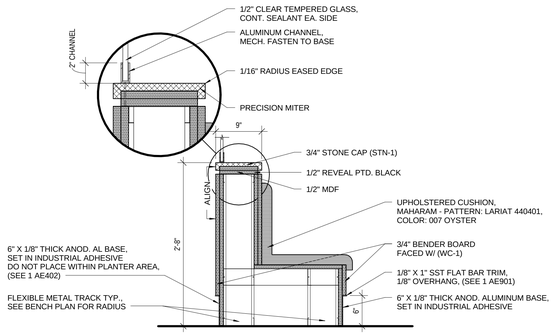
5 Planter Wall, Typ.
1" = 1'-0"



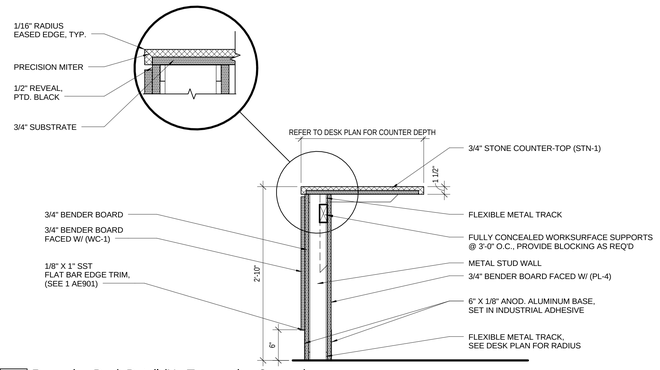
1 Reception Desk Detail
1" = 1'-0"



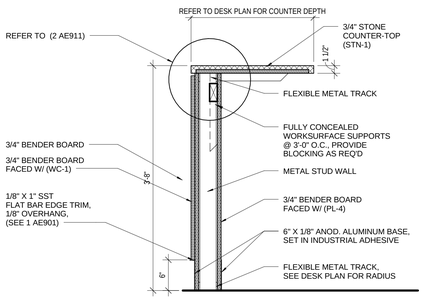
10 Lounge Wall
1" = 1'-0"



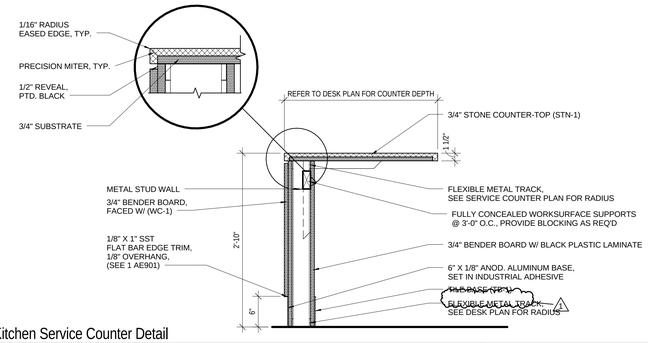
6 Lounge Bench
1" = 1'-0"



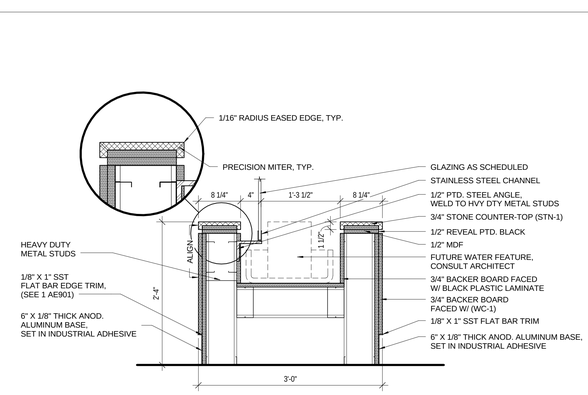
2 Reception Desk Detail (No Transaction Counter)
1" = 1'-0"



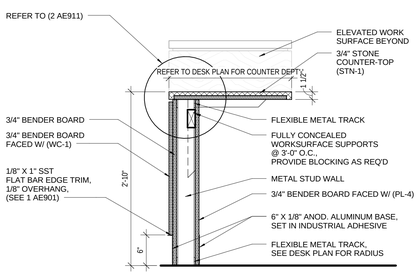
11 Bookstore Service Counter Detail 1
1" = 1'-0"



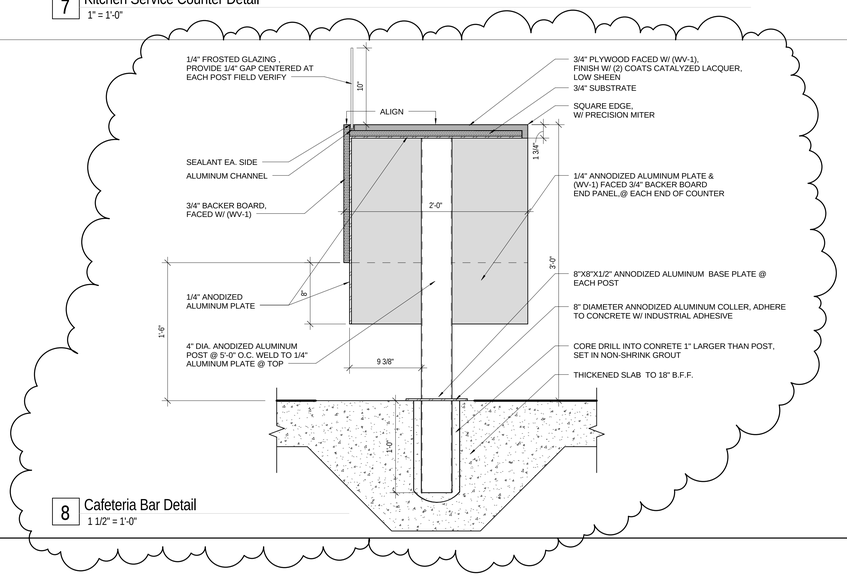
7 Kitchen Service Counter Detail
1" = 1'-0"



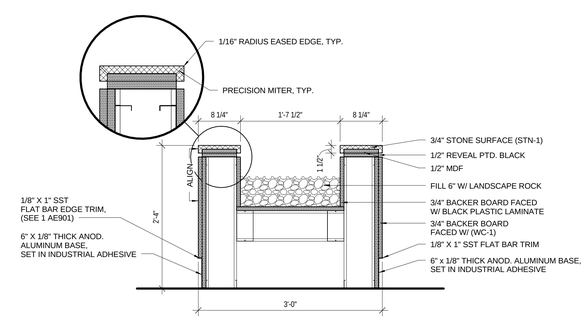
3 Water Feature
1" = 1'-0"



12 Bookstore Service Counter Detail 2
1" = 1'-0"



8 Cafeteria Bar Detail
1 1/2" = 1'-0"



4 Large Planter Detail
1" = 1'-0"

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

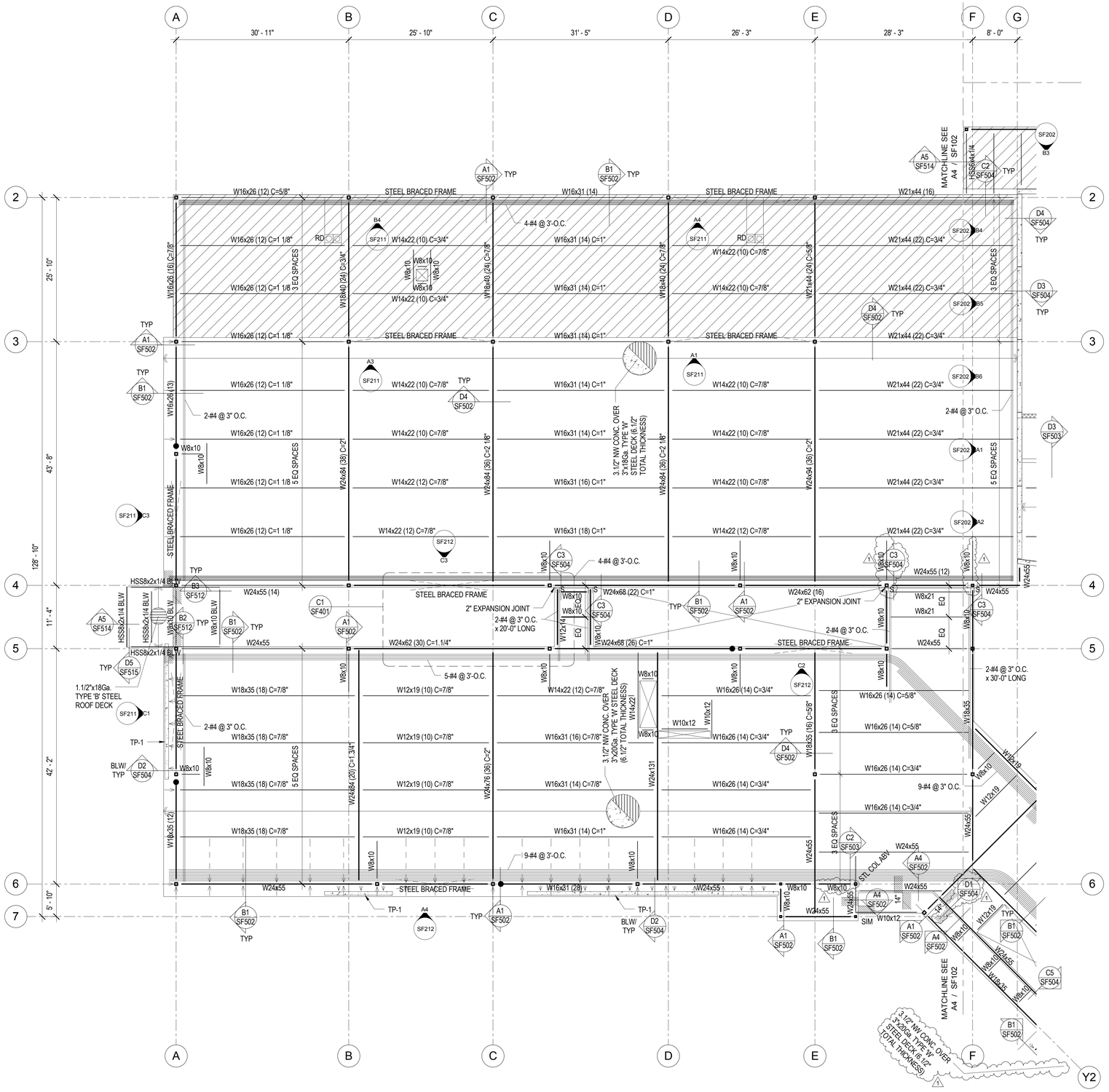
project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012

Casework Details

sheet:
AE911

100% Construction Documents



A1 SF101 SECOND FLOOR FRAMING PARTIAL PLAN 1

SCALE: 1/8" = 1'-0"

FLOOR FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511, U.N.O.
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- SPECIAL DECK AREA
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

FLOOR FRAMING PLAN NOTES

1. SEE GENERAL STRUCTURAL NOTE (3.4.H) AND DETAIL D4/SF502 FOR CONTROL JOINTS IN SUSPENDED SLABS OVER STEEL DECK.

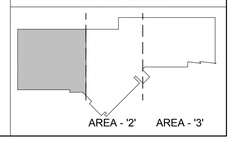
2. SEE DETAILS D1/SF502 FOR MISCELLANEOUS FLOOR OPENINGS.

3. SEE GENERAL STRUCTURAL NOTE (5.10.G) FOR STEEL DECK REQUIREMENTS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE.

4. SEE TYPICAL REINFORCING AROUND MISC OR RECESSED MASONRY OPENING FOR ADDITIONAL REINFORCING AT MASONRY WALLS.

5. PROVIDE 4.1/2" LONG HSA ON COMPOSITE BEAM IN AREA OF 1" SLAB RECESS.

KEYPLAN



METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

REAVELEY ENGINEERS + ASSOCIATES
Consulting Structural Engineers

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/12

revisions :
1 Addendum #2 02.10.12

2nd FLOOR FRAMING Partial Plan 1

sheet:
SF101

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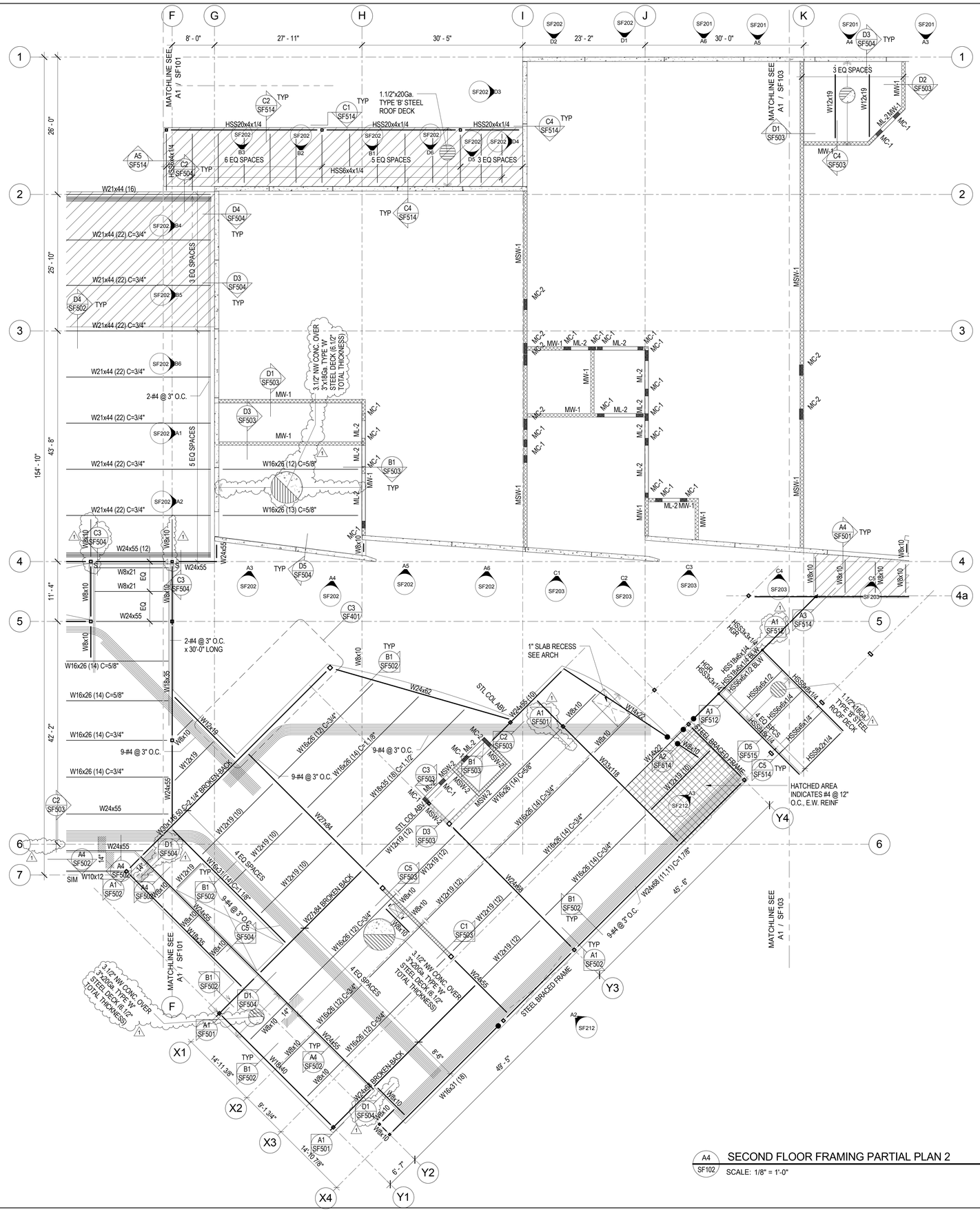


A4 / SF102 SECOND FLOOR FRAMING PARTIAL PLAN 2

SCALE: 1/8" = 1'-0"

FLOOR FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511, U.N.O.
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- SPECIAL DECK AREA
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

FLOOR FRAMING PLAN NOTES

1. SEE GENERAL STRUCTURAL NOTE (3.4.H) AND DETAIL D4/SF502 FOR CONTROL JOINTS IN SUSPENDED SLABS OVER STEEL DECK.

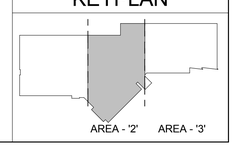
2. SEE DETAILS D1/SF502 FOR MISCELLANEOUS FLOOR OPENINGS.

3. SEE GENERAL STRUCTURAL NOTE (5.10.G) FOR STEEL DECK REQUIREMENTS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE.

4. SEE TYPICAL REINFORCING AROUND MISC OR RECESSED MASONRY OPENING FOR ADDITIONAL REINFORCING AT MASONRY WALLS.

5. PROVIDE 4.1/2" LONG HSA ON COMPOSITE BEAM IN AREA OF 1" SLAB RECESS.

KEYPLAN



LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. 176729
MARK R. HARRIS
UTAH

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2nd FLOOR FRAMING Partial Plan 2

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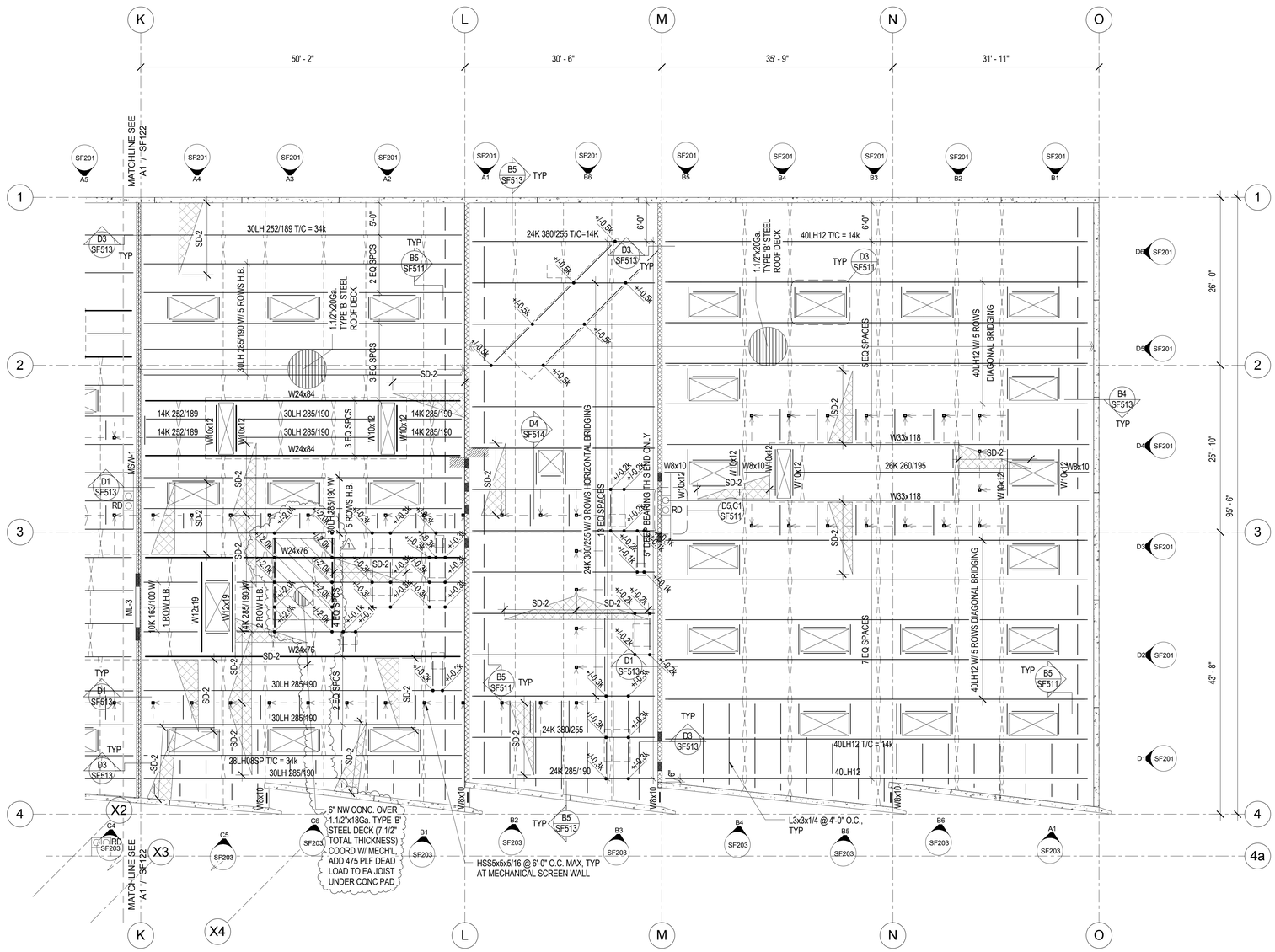


A1 / SF123 UPPER ROOF FRAMING PARTIAL PLAN 3

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN LEGEND

- CONCRETE WALL
- CONCRETE LINTEL IN CONCRETE WALL
- MASONRY WALL
- MASONRY LINTEL IN MASONRY WALL
- MASONRY COLUMN IN MASONRY WALL
- STEEL COLUMN - TUBE
- STEEL BRACED FRAME
- MOMENT CONNECTION
- COLLECTOR CONNECTION SEE B1/SF501
- SLIP CONNECTION SEE A5/SF511
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- CHANGE IN ELEVATION
- CONCRETE ON METAL DECK
- ROOF DECK
- BALLASTED ROOF
- RECESSED/DEPRESSED SLAB ON METAL DECK
- OPENING

ROOF FRAMING PLAN NOTES

1. VERIFY SIZE, WEIGHT, LOCATION AND CONFIGURATION OF ALL ROOF TOP EQUIPMENT WITH ARCHITECT AND MECHANICAL ENGINEER. PROVIDE STEEL FRAMES FOR SUPPORT OF ROOF TOP EQUIPMENT AS INDICATED IN DETAIL D4/SF511 COORDINATE OPENINGS WITH MECHANICAL AND ELECTRICAL AND GENERAL CONTRACTORS.

2. ALL ROOF OPENINGS SHALL BE FRAMED AS INDICATED IN DETAIL D3/SF511. FOR ROUND OPENINGS WHICH ARE LESS THAN 12" DIA. SEE DETAIL C2/SF511.

3. SEE ARCHITECTURAL FOR ROOF SLOPES AND DRAINS. SEE D5 & C1/SF511 FOR ROOF DRAIN OPENING FRAME.

4. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.

5. ±#.#K ADD - INDICATES ADDITIONAL UPLIFT / DOWNWARD FORCE ON STEEL JOIST IN ADDITION TO REGULAR LOADS. ALL POINT LOADS ON JOISTS ARE LIVE LOADS, U.N.O.

6. T/C=##K - INDICATES ADDITIONAL TOP CHORD AXIAL FORCE ON STEEL JOIST OR GIRDER IN ADDITION TO REGULAR LOADS. THIS FORCE IS A SEISMIC LRFD LOAD THAT SHALL BE CONSIDERED IN BOTH TENSION AND COMPRESSION; INCLUDES APPLICABLE OVERSTRENGTH FACTORS FROM IBC SECTION 1613 AND ASCE 7 SECTION 12.10. STEEL JOISTS AND GIRDERS WITH T/C FORCE SHALL BE DESIGNED AS COLLECTOR ELEMENTS PER IBC SECTION 1613 AND ASCE 7 SECTION 12.10 WITH STRENGTH TO RESIST APPLICABLE LOAD COMBINATIONS OF IBC SECTION 1605.4 AND ASCE 7 SECTION 12.4.

7. ALL LOADS SUPPORTED BY OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE LOCATED WITHIN 6" OF JOIST OR GIRDER PANEL POINT OR THE JOIST OR GIRDER SHALL BE REINFORCED PER DETAIL D1/SF511.

8. SEE DETAIL D2/SF511 FOR SUPPORT OF HANGING MECHANICAL UNITS.

9. HORIZONTAL AND CROSS BRIDGING SHALL BE SIZED AND SUPPLIED BY THE JOIST MANUFACTURER. CONNECT TO WALLS AS INDICATED IN DETAILS.

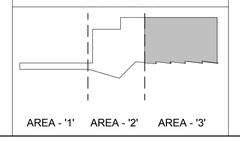
10. WHERE SKYLIGHTS OR MECHANICAL UNITS INTERRUPT HORIZONTAL BRIDGING PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE. TYPICAL.

11. SEE A2/SF601 FOR SD-# FOR SNOW DRIFT DIAGRAMS. SEE B5/SF601 FOR SPJ-# FOR SPECIAL JOIST LOADING DIAGRAMS.

12. DESIGN OWSJ FOR MIN. NET UPLIFT OF 23.6psf, U.N.O.

13. 600lb DEAD POINT LOAD AT CONT STEEL CHANNEL.

KEYPLAN



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UPPER ROOF FRAMING Partial Plan 3

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SF123

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GENERAL NOTES

1. DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
3. NOT ALL INFORMATION IS SHOWN ON THE HVAC DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR WILL BE FAMILIAR WITH THE DRAWINGS, SPECIFICATIONS, AND ADDENDUMS.
4. THE WORKING DRAWINGS ARE DIAGRAMMATIC (DRAWINGS ARE NOT TO BE SCALED). BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR HVAC EQUIPMENT SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL, AND ELECTRICAL DRAWINGS.
5. SPACE ABOVE ALL CEILINGS IS EXTREMELY LIMITED. CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED AND/OR INSTALLED. 1/4" SCALE SHOP DRAWINGS (SUBMITTED TO ENGINEER FOR APPROVAL) ARE REQUIRED FOR ALL DIVISIONS OF THIS WORK. ANY CONFLICTS AND/OR CHANGES FOUND DURING INSTALLATION THAT RESULT FROM LACK OF COORDINATION BY THE CONTRACTORS DURING THE SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR 2
6. THE DRAWINGS AND SPECIFICATION HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
7. ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE SITE ALTITUDE.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL EQUIPMENT (INCLUDED IN THIS BID) CHECK-IN, SAFE KEEPING, AND DAMAGE.

PLUMBING GENERAL NOTES

1. UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT; WASTE MAINS: 1/4" PER FOOT; ROOF DRAIN/ROOF DRAIN OVERFLOW: 1/8" PER FOOT.
2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
3. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
4. ALL PIPING IN PLUMBING CHASES SHALL BE ARRANGED TO ALLOW MAINTENANCE ACCESS.
5. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
6. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
7. EXISTING PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING, IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.
8. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS, AND OTHER REQUIREMENTS.
9. CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL FIXTURES.
10. LOCATE ALL VENTS MINIMUM 25' AWAY FROM AIR INTAKES.
11. INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
12. INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILINGS.
13. MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
14. INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURERS RECOMMENDATION.
15. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
16. COORDINATE EXACT LOCATION OF PLUMBING PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL PIPING, MEDICAL GASES, FIRE PROTECTION AND OTHER TRADES.
17. COORDINATE THE LOCATION OF THE FLOOR DRAINS, SHOWER DRAINS, TRENCH DRAINS OR FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL 2
18. ACCESS DOORS SHALL BE PROVIDED TO ALL WATER HAMMER ARRESTORS IN WALLS OR ABOVE CEILINGS.
19. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TO/FROM SINGLE FIXTURE.
20. HOSE BIBBS SHOWN AT LAVATORIES ARE TO BE MOUNTED AT AN ACCESSIBLE LOCATION UNDER THE LAVATORY.
21. LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24"X24" ACCESS PANEL WHERE ITEM IS LOCATED ABOVE A HARD CEILING.
22. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
23. INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING.

    a) SIZE SAME AS DRAINAGE PIPING UP TO 4" NPS. USE 4" NPS FOR LARGER. DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.

    b) LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND SMALLER AND 100 FT FOR LARGER PIPING.

    c) LOCATE AT THE BASE OF EACH VERTICAL STACK.

MECHANICAL PIPING GENERAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. UNLESS OTHERWISE NOTED: ALL MECHANICAL PIPING IS OVERHEAD TO RUN ABOVE DUCTWORK AND TIGHT TO UNDERSIDE OF STRUCTURE.
3. WHERE VALVING OR EQUIPMENT IS LOCATED ABOVE HARD CEILINGS PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24"X24".
4. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
5. SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
6. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
7. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
8. PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING WATER PIPING SYSTEM.
9. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
10. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
11. PROVIDE ISOLATION VALVES AT EACH EXIT/ENTRANCE INTO SHAFT WHETHER OR NOT SHOWN.
12. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
13. COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS. MOUNT THERMOSTAT AT HEIGHT AS SPECIFIED ON ARCHITECTURAL.
14. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
15. HEATING HOT WATER, SUPPLY AND RETURN MAY BE DIRECTLY SUPPORTED TO UNISTRUT BY MEANS OF CLAMPS, AND INSULATED UP TO SUPPORT SYSTEM.

FIRE PROTECTION GENERAL NOTES

1. NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN THE FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
3. COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
4. ALL SPRINKLERS SHALL BE QUICK RESPONSE TYPE.

MECHANICAL GENERAL NOTES

1. COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES, AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK.
3. BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE.
4. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. SEE SPECIFICATION.
5. THE MECHANICAL CONTRACTOR SHALL PROVIDE FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED TO MEET THE INTEGRITY OF ALL SMOKE AND FIRE PARTITIONS. THE CONTRACTOR SHALL REFER TO THE LATEST ARCHITECTURAL LIFE SAFETY PLANS FOR ALL FIRE AND SMOKE PARTITION LOCATIONS. DAMPERS ARE TO BE PROVIDED WITH SHUTOFF/TEST SWITCH AT EACH LOCATION. 2
6. PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE DUCTWORK AT ELBOWS OR TEES.
7. INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS, MEETING ALL MANUFACTURERS REQUIRED CLEARANCES ON EACH SIDE, SEE DETAILS.
8. CONTRACTOR SHALL OFF-SET, TRANSITION AND PROVIDE CHANGES AS REQUIRED FOR COORDINATION WITH OTHER TRADES.
9. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER.
10. PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS, SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS.
11. PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS AND BALANCING DAMPER AT ALL BRANCH CONNECTIONS TO LOW PRESSURE DUCTWORK.
12. PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFFS AT ALL BRANCH CONNECTIONS TO MEDIUM PRESSURE DUCTWORK. 2
13. AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK, CONTRACTOR TO FABRICATE TRANSITION BOOT FROM FLEX CONNECTION TO DIFFUSER OR GRILLE WITH BALANCING DAMPER.
14. THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS FOR ALL FIRE, SMOKE AND COMBINATION FIRE/SMOKE DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. FIELD VERIFY EXACT INSTALLATION LOCATIONS PRIOR TO COMMENCING WORK AND COORDINATE INSTALLATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS.
15. MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
16. ALL VAV BOXES TO HAVE REHEAT COILS, EXCEPT AS NOTED. PROVIDE A MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT ROUND DUCT TO INLET OF VAV BOX. BOX SHALL BE HARD CONNECTED (HIGH EFFICIENCY) TO MEDIUM PRESSURE DUCT. 2
17. PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS ABOVE HARD CEILINGS. PROVIDE MIN. 24" X 24".
18. ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
19. ALL DUCTWORK ABOVE HARD CEILINGS SHALL BE EXTENDED ALL THE WAY TO THE SUPPLY DIFFUSERS, RETURN GRILLES OR EXHAUST GRILLES WHETHER OR NOT HARD DUCT OR FLEX DUCT IS SHOWN ON PLANS. FLEX DUCT WILL NOT BE ALLOWED TO DIFFUSERS OR GRILLES ABOVE HARD CEILINGS. FLEX DUCT WILL BE REQUIRED IN AREAS ABOVE T-BAR CEILINGS.
20. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, AND ALL OTHER TRADES. 2
21. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
22. PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS ABOVE CEILING. LOCATE IN ACCESSIBLE LOCATION. WHERE THERE ARE HARD CEILINGS THE CONTRACTOR SHALL PROVIDE 24"X24" ACCESS DOOR.
23. UNLESS OTHERWISE NOTED ALL CEILING SUPPLY GRILLES, RETURN GRILLES & EXHAUST GRILLES SHALL BE CD-1, RG-1 & EG-1 RESPECTIVELY.
24. INSTALL ALL SQUARE TO ROUND FITTINGS PER HIGH EFFICIENCY TAKEOFF DETAIL.
25. PROVIDE FLEXIBLE EXPANSION JOINTS ON ALL DUCTWORK, PIPING, FIRE SPRINKLING, PLUMBING, ETC. WHERE ANY SYSTEM CROSSES THE BUILDING EXPANSION JOINT. SEE ARCHITECTURAL PLAN FOR LOCATION OF BUILDING EXPANSION JOINT.

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
STATE OF UTAH

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925 south west temple
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2 Addendum 2 2-10-2012

GENERAL NOTES

sheet:

ME002

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VARIABLE REFRIGERANT VOLUME (VRV) BRANCH SELECTOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	INDOOR UNITS SERVED	NOMINAL CAPACITY (TONS)	ELECTRICAL VOLT/PH/HZ	ELECTRICAL MCA (AMPS)	ELECTRICAL MAXIMUM FUSE AMPS (AMPS)	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
BS-1	DAIKIN BSVQ96PVJU	CAFETERIA B111	VRV-1A,1B,2A,2B	8	230/1/60	0.1	15	13x15x8	33	
BS-2	DAIKIN BSV6Q36PVJU	CORRIDOR B120A	VRV-3,4,5,6,7,8	3	230/1/60	0.6	15	25x62x8	196	
BS-3	DAIKIN BSV6Q36PVJU	CORRIDOR B120A	VRV-9,10,11,12,13,14	3	230/1/60	0.6	15	25x62x8	196	
BS-4	DAIKIN BSVQ60PVJU	RECEPTION/WAITING B223	VRV-15 & 16	5	230/1/60	0.1	15	13x13x8	31	
BS-5	DAIKIN BSVQ60PVJU	BOARDROOM B224	VRV-17 & 17A	5	230/1/60	0.1	15	13x13x8	31	
BS-6	DAIKIN BSV6Q36PVJU	FACULTY/BREAK B227	VRV-18,19,20,21,22,23	3	230/1/60	0.6	15	25x62x8	196	
BS-7	DAIKIN BSV4Q36PVJU	CONST TECH CLASS C104	VRV-31,32,33,34	3	230/1/60	0.4	15	25x42x8	132	
BS-8	DAIKIN BSVQ36PVJU	WELDING CLASS C114	VRV-30	3	230/1/60	0.1	15	13x15x8	31	
BS-9	DAIKIN BSVQ36PVJU	WELDING CLASS C114	VRV-26	3	230/1/60	0.1	15	13x15x8	31	
BS-10	DAIKIN BSVQ36PVJU	CE & R CLASS C124	VRV-27	3	230/1/60	0.1	15	13x15x8	31	
BS-11	DAIKIN BSV4Q36PVJU	WELDING CLASS C114	VRV-24,25,28,29	3	230/1/60	0.4	15	25x42x8	132	
BS-12	DAIKIN BSVQ96PVJU	CAFETERIA B111	VRV-35A & 36B	8	230/1/60	0.1	15	13x15x8	33	
BS-13	DAIKIN BSVQ36PVJU	CAFETERIA B111	VRV-36	3	230/1/60	0.1	15	13x15x8	31	

CHEMICAL FEED SYSTEM SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	OPERATOR	PUMP PRESSURE RATING (PSIG)	PUMP DISCHARGE PRESSURE (PSIG)	PUMP HP	PUMP VOLT/PH/HZ	PHYSICAL DIAMETER/ HEIGHT (IN)	PHYSICAL TANK SIZE (GAL)	NOTES
CFS-1	POWER ENG GC7	BOILER C203	30% PPG	PREHEAT	3.8	40	1/3	115/1/60	23/33	50	(1)

(1) SET FILL PRESSURE TO MATCH ASSOCIATED EXPANSION TANK SCHEDULED FILL PRESSURE.

PUMP SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	TYPE	FLUID FLOW RATE (GPM)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	ELECTRICAL MOTOR SIZE (HP)	ELECTRICAL MOTOR BHP (HP)	ELECTRICAL MOTOR SPEED (RPM)	ELECTRICAL VOLT/PH/HZ	NOTES
P-1&2	ARMSTRONG 4030-4x3x11.5	BOILER C203	BUILDING HEATING	(2)	327	WATER	100	15	11.34	1750	460/3/60	(1)(2)(4)
P-3&4	ARMSTRONG 4030-3x2.5x10	BOILER C203	GLYCOL PREHEAT	(2)	295	30% PPG	70	10	7.02	1750	460/3/60	(1)(2)(4)
P-5	ARMSTRONG 4380 1.5x1.5x8	AH-1	COIL CIRCULATION	(5)	19	30% PPG	20	0.5	0.21	1150	115/1/60	(6)
P-6	ARMSTRONG 4380 1.5x1.5x8	AH-2	COIL CIRCULATION	(5)	26	30% PPG	20	0.5	0.26	1150	115/1/60	(6)
P-7	ARMSTRONG 4380 1.5x1.5x8	AH-3	COIL CIRCULATION	(5)	12	30% PPG	20	0.5	0.17	1150	115/1/60	(6)
P-8	ARMSTRONG 4380 1.5x1.5x8	AH-4	COIL CIRCULATION	(5)	21	30% PPG	20	0.5	0.22	1150	115/1/60	(6)

(1) PUMP CAPABLE OF MODULATING DOWN TO 25%. ONE VFD FOR EACH PUMP. VFD BY DIVISION 26.
(2) END SUCTION, CLOSE COUPLED, BASE MOUNT, VERTICAL SPLIT CASE.
(3) VERTICAL SPLIT CASE DESIGN IN CAST BRONZE FITTED CONSTRUCTION.
(4) PUMP OPERATES IN PRIMARY/STANDBY.
(5) INLINE CLOSE COUPLED.
(6) PUMP TO BE MOUNTED IN AHU PIPING VESTIBULE AND MUST BE CAPABLE OF VERTICAL OR HORIZONTAL MOUNTING AS REQUIRED.

AIR SEPARATOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	TYPE	FLUID FLOW RATE (GPM)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	PHYSICAL DIA./ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
AS-1	SPIROTHERM VDN600	BOILER C203	HOT WATER	AIR & DIRT	327	WATER	5	13 / 42	260	(1)
AS-2	SPIROTHERM VDN600	BOILER C203	PREHEAT	AIR & DIRT	295	30% PPG	5	13 / 42	260	(1)

(1) AIR SEPARATOR EQUIPPED WITH REMOVABLE HEAD FOR CLEANING.

AIR COOLED CONDENSING UNIT SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	REFRIG.	EVAPORATOR COIL: EVAPORATOR COIL ID	EVAPORATOR COIL: ASSOCIATED AIR HANDLER	CONDENSER: RATED CAPACITY (MBH)	ELECTRICAL: MAXIMUM KW	ELECTRICAL: MCA	ELECTRICAL: EER	ELECTRICAL: VOLT/PH/HZ	ELECTRICAL: MROPD	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL: UNIT WEIGHT (LBS)	NOTES
ACC-1	MCQUAY RCS110D	ROOF	R410A	DX-1	AH-1	1107.22	106.2	197.2	10.4	460/3/60	225	136/99/97	4270	(1)(2)(3)(4)(5)

(1) ALL CAPACITIES BASED ON 5,070 FEET ELEVATION AND AMBIENT CONDITIONS OF 97DB / 63 WB.
(2) UNIT COMPLETE WITH FACTORY ELECTRICAL DISCONNECT AND 115V CONVENIENCE OUTLET.
(3) EQUIPPED WITH SIX COMPRESSORS FOR A TOTAL OF SIX STAGES OF COOLING, AND ELECTRONIC MODULATING HOT GAS BYPASS ON THE FIRST STAGE OF COOLING. HOT GAS BYPASS WILL BE CONTROLLED BY DISCHARGE AIR TEMPERATURE.
(4) CONDENSING UNIT, AIR HANDLING UNIT, AND ASSOCIATED DX COIL, THERMAL BULB, TXV, AND ALL OTHER APPURTENANCES SHALL BE FURNISHED BY A SINGLE MANUFACTURER'S REPRESENTATIVE.
(5) REFRIGERANT LINE SET SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.

PLATE AND FRAME HEAT EXCHANGER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	SERVICE	HEATING LOAD (MBH)	HEATING SURFACE AREA (FT^2)	HEATED SIDE: TOTAL FLUID FLOW (GPM)	HEATED SIDE: ENTER/ LEAVING FLUID TEMP (DEG. F)	HEATED SIDE: WORKING FLUID	HEATED SIDE: MAXIMUM WATER PRESSURE DROP (FT)	COOLED SIDE: TOTAL FLUID FLOW (GPM)	COOLED SIDE: ENTER/ LEAVING FLUID TEMP (DEG. F)	COOLED SIDE: WORKING FLUID	COOLED SIDE: MAXIMUM WATER PRESSURE DROP (FT)	SIZE: LENGTH/ WIDTH/ HEIGHT (IN)	SIZE: NUMBER OF PLATES	NOTES
HX-1	ARMSTRONG S-96X-2000-167	GLYCOL PREHEAT	4,224	2052	215	150/110	WATER	4.6	295	110/140	30% PPG	9.8	86/28/90	167	

DUST COLLECTOR SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	AREA SERVED	LOCATION	AIR: MAXIMUM AIRFLOW RATE (CFM)	AIR: STATIC PRESSURE (IN. WATER)	FILTER: EFFICIENCY (%)	FILTER: FILTER AREA (SQ. FT)	ELECTRICAL EXHAUST FAN: MOTOR SIZE (HP)	ELECTRICAL EXHAUST FAN: VOLT/PH/HZ	ELECTRICAL FILTER SHAKER: MOTOR SIZE (HP)	ELECTRICAL FILTER SHAKER: VOLT/PH/HZ	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL: WEIGHT (LBS)	NOTES
SDC-1	AQC AMV-700	CONST TECH LAB C103	LOADING DOCK	5,040	12	99	700	15	460V/3/60	1	115/1/60	103/66/164	2000	(1)(2)(4)(6)
GDC-1	AQC AMV-270	GRINDING C108	LOADING DOCK	1,540	10.5	99	270	5	460V/3/60	1	115/1/60	55/63/145	1250	(1)(3)(4)

(1) ALL CAPACITIES BASED ON 5,070 FEET ELEVATION.
(2) SAWDUST COLLECTOR. SHAKER TYPE DUST COLLECTOR COMPLETE WITH NFPA EXPLOSION RELIEF VENT WITH OVERHEAD CANOPY FOR EXTERIOR INSTALLATION, (QTY. 2) 55 GALLON DRUMS FOR DUST STORAGE, PREMIUM EFFICIENCY TEFC MOTOR, ALUMINUM SPARK PROOF IMPELLER, INSULATED SOUND PLENUM WITH EXHAUST SILENCER, CABINET MOUNTED STARTER AND CONTROL PANEL, FACTORY SUPPLIED 115V TRANSFORMER FOR FILTER SHAKER. BLOWBACK DAMPER ON EXHAUST INLET. AND ABORT DAMPER.
(3) METAL GRINDER DUST COLLECTOR. SHAKER TYPE DUST COLLECTOR COMPLETE WITH NFPA EXPLOSION RELIEF VENT WITH OVERHEAD CANOPY FOR EXTERIOR INSTALLATION, 55 GALLON DRUM FOR DUST STORAGE, PREMIUM EFFICIENCY TEFC MOTOR, ALUMINUM SPARK PROOF IMPELLER, INSULATED SOUND PLENUM WITH EXHAUST SILENCER, CABINET MOUNTED STARTER AND CONTROL PANEL, FACTORY SUPPLIED 115V TRANSFORMER FOR FILTER SHAKER. 2
(4) DIVISION 26 TO PROVIDE ELECTRICAL DISCONNECT.
(5) CONTROL: USER ACCESSIBLE WALL SWITCH. SEE PLANS FOR LOCATION.
(6) COLLECTOR SHALL BE BID AS BID ALTERNATE #10.

VARIABLE REFRIGERANT VOLUME (VRV) INDOOR FAN COIL UNIT SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	OUTDOOR UNIT	BRANCH SELECTOR	AIRFLOW (CFM)	MAXIMUM EXT. SP (IN. W.G.)	TOTAL COOLING CAPACITY (BTU/HR)	SENSIBLE COOLING CAPACITY (BTU/HR)	HEATING CAPACITY (BTU/HR)	ELECTRICAL VOLT/PH/HZ	ELECTRICAL MCA (AMPS)	ELECTRICAL MOP (AMPS)	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
VRV-1A	DAIKIN FXFQ24PVJU	CAFETERIA B111	CASSETTE	HP-1	BS-1	780	---	18189	18189	15727	230/1/60	0.5	15	33x33x11	61	(1)(2)
VRV-1B	DAIKIN FXFQ24PVJU	CAFETERIA B111	CASSETTE	HP-1	BS-1	780	---	18189	18189	15727	230/1/60	0.5	15	33x33x11	61	(1)(2)
VRV-2A	DAIKIN FXFQ24PVJU	CAFETERIA B111	CASSETTE	HP-1	BS-1	1220	---	36211	33172	32443	230/1/60	1.5	15	33x33x11	66	(1)(2)
VRV-2B	DAIKIN FXFQ24PVJU	CAFETERIA B111	CASSETTE	HP-1	BS-1	780	---	18189	18189	15727	230/1/60	0.5	15	33x33x11	61	(1)(2)
VRV-3	DAIKIN FXFQ07M7VJU	OFFICE B115	CASSETTE	HP-1	BS-2	320	---	5647	5647	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-4	DAIKIN FXFQ07M7VJU	PLACEMENT B113	CASSETTE	HP-1	BS-2	320	---	5690	5690	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-5	DAIKIN FXFQ07M7VJU	PLACEMENT OFFICE B114	CASSETTE	HP-1	BS-2	320	---	5722	5722	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-6	DAIKIN FXFQ36PVJU	MEDIA B112	CASSETTE	HP-1	BS-2	1180	---	27158	27158	24332	230/1/60	1.4	15	33x33x11	66	(1)(2)
VRV-7	DAIKIN FXFQ12M7VJU	SS VP B126	CASSETTE	HP-1	BS-2	335	---	9121	8248	8111	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-8	DAIKIN FXFQ07M7VJU	SPARE OFFICE B125	CASSETTE	HP-1	BS-2	320	---	5711	5177	5069	230/1/60	0.8	15	33x33x10	42	(1)(3)
VRV-9	DAIKIN FXFQ36PVJU	ASSESSMENT B116	CASSETTE	HP-1	BS-3	1180	---	27055	27055	24332	230/1/60	1.4	15	33x33x11	66	(1)(3)
VRV-10	DAIKIN FXFQ07M7VJU	STG STUDENT RECORD B124	CASSETTE	HP-1	BS-3	320	---	5637	5637	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-11	DAIKIN FXFQ07M7VJU	SIS OFFICE B123	CASSETTE	HP-1	BS-3	320	---	5669	5669	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-12	DAIKIN FXFQ07M7VJU	COUNSELOR B122	CASSETTE	HP-1	BS-3	320	---	5626	5626	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-13	DAIKIN FXFQ24PVJU	ENROLLMENT WAITING B121	CASSETTE	HP-1	BS-3	780	---	17900	17900	16221	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-14	DAIKIN FXFQ12PVJU	ENROLLMENT B120	CASSETTE	HP-1	BS-3	460	---	8950	8950	8111	230/1/60	0.3	15	33x33x10	55	(1)(2)
VRV-15	DAIKIN FXFQ24PVJU	RECEPTION/WAITING B223	CASSETTE	HP-2	BS-4	780	---	18741	18741	18193	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-16	DAIKIN FXFQ24PVJU	RECEPTION/WAITING B223	CASSETTE	HP-2	BS-4	780	---	18321	18321	18193	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-17	DAIKIN FXFQ24PVJU	BOARDROOM B224	CASSETTE	HP-2	BS-5	780	---	18644	18644	18193	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-17A	DAIKIN FXFQ24PVJU	BOARDROOM B224	CASSETTE	HP-2	BS-5	780	---	18644	18644	18193	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-18	DAIKIN FXFQ07M7VJU	WORKROOM B226	CASSETTE	HP-2	BS-6	320	---	5725	5725	5685	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-19	DAIKIN FXFQ07M7VJU	KITCHEN B225	CASSETTE	HP-2	BS-6	320	---	5626	5626	5069	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-20	DAIKIN FXFQ18PVJU	FACULTY/BREAK B227	CASSETTE	HP-2	BS-6	560	---	13740	13740	13645	230/1/60	0.4	15	33x33x10	55	(1)(2)
VRV-21	DAIKIN FXFQ12PVJU	EXERCISE B232	CASSETTE	HP-2	BS-6	460	---	8950	8950	8111	230/1/60	0.3	15	33x33x10	55	(1)(2)
VRV-22	DAIKIN FXFQ24PVJU	WELLNESS B233	CASSETTE	HP-2	BS-6	780	---	18644	18644	18193	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-23	DAIKIN FXMQ09PVJU	TOILET B230	DUCTED	HP-2	BS-6	320	0.4	7290	7290	7201	230/1/60	0.6	15	28x22x12	55	(1)(3)
VRV-24	DAIKIN FXFQ18PVJU	DIESEL CLASSROOM C112	CASSETTE	HP-3	BS-11	560	---	14191	14191	14290	230/1/60	0.4	15	33x33x10	55	(1)(2)
VRV-25	DAIKIN FXFQ18PVJU	WELDING CLASSROOM C114	CASSETTE	HP-3	BS-11	560	---	14191	14191	14290	230/1/60	0.4	15	33x33x10	55	(1)(2)
VRV-26	DAIKIN FXMQ07PVJU	CE & R STORAGE C122	DUCTED	HP-3	BS-9	320	0.4	6011	6011	5954	230/1/60	0.6	15	28x22x12	55	(1)(3)
VRV-27	DAIKIN FXFQ24PVJU	CE & R CLASSROOM C124	CASSETTE	HP-3	BS-10	780	---	19145	19145	19054	230/1/60	0.5	15	33x33x10	61	(1)(2)
VRV-28	DAIKIN FXFQ07M7VJU	DIESEL OFFICE C113	CASSETTE	HP-3	BS-11	320	---	5969	5969	5954	230/1/60	0.8	15	33x33x10	42	(1)(2)
VRV-29	DAIKIN FXMQ07PVJU	SUPPLY ROOM C110	DUCTED	HP-3	BS-11	320	0.4	5885	5885	5954	230/1/60	0.6	15	28x22x12	55	(1)(3)
VRV-30	DAIKIN FXMQ07PVJU	WELDING STORAGE C116	DUCTED	HP-3	BS-8	320	0.4	6060	6060	5954	230/1/60	0.6	15	28x22x12	55	(1)(3)
VRV-31	DAIKIN FXFQ18PVJU	CONST TECH CLASS C104	CASSETTE	HP-3	BS-7	560	---	14510	14224	14290	230/1/60	0.4	15	33x33x10	55	(1)(2)
VRV-32	DAIKIN FXMQ07PVJU	CT STORAGE C105	DUCTED	HP-3	BS-7	320	0.4	6039	6039	5954	230/1/60	0.6	15	28x22x12	55	(1)(3)
VRV-33	DAIKIN FXMQ07PVJU	RECEIVING C102A	DUCTED	HP-3	BS-7	320	0.4	6025	6025	5954	230/1/60	0.6	15	28x22x12	55	(1)(3)(4)
VRV-34	DAIKIN FXFQ12M7VJU	SHELLED LAB C102	CASSETTE	HP-3	BS-7	335	---	9595	8461	9527	230/1/60	0.8	15	33x33x10	42	(1)(2)(4)
VRV-35A	DAIKIN FXMQ48PVJU	KITCHEN B108	DUCTED	HP-1	BS-12	1380	0.8	35429	35429	31453	230/1/60	3.4	15	28x55x12	105	(1)(3)
VRV-35B	DAIKIN FXMQ48PVJU	KITCHEN B108	DUCTED	HP-1	BS-12	1380	0.8	35236	35236	31453	230/1/60	3.4	15	28x55x12	105	(1)(3)
VRV-36	DAIKIN FXFQ12PVJU	RECEPTION B119	CASSETTE	HP-1	BS-13	460	---	9010	VR	7863	230/1/60	0.3	15	33x33x10	55	(1)(2)
								187296	134325	130676						

(1) CAPACITY BASED AT 5,070 FEET ELEVATION.
(2) CASSETTE TYPE INDOOR FANCOIL UNIT COMPLETE WITH DECORATIVE FACE PANEL, ELECTRICAL DISCONNECT, INTEGRAL CONDENSATE DRAIN PAN AND PUMP, AND MERV 13 FILTER.
(3) CONCEALED DUCTED INDOOR FANCOIL UNIT COMPLETE WITH MERV 13 FILTER KIT AND PRESSURE TAPS, ELECTRICAL DISCONNECT, AND INTEGRAL CONDENSATE DRAIN PAN AND PUMP.
(4) UNIT IS LOCATED IN SHELLED SPACE AND IS LISTED FOR SYSTEM SIZING AND INFORMATION PURPOSES ONLY. NOT INCLUDED IN CONTRACT.

VARIABLE REFRIGERANT VOLUME (VRV) AIR COOLED CONDENSING UNIT SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	OUTDOOR UNIT MODEL NUMBER	AREA SERVED	LOCATION	RATED COOLING CAPACITY (MBH)	RATED HEATING CAPACITY (MBH)	COOLING EER	HEATING COP	REFRIGERANT	ELECTRICAL MINIMUM CIRCUIT AMPACITY (MCA)	ELECTRICAL MAXIMUM FUSIBLE AMPS (MFA)	ELECTRICAL INPUT POWER (kW)	ELECTRICAL VOLT/PHASE/HZ	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
HP-1	DAIKIN REYQ336PBYD	REMQ96PBYD	OFFICE LVL 1	ROOF	300.4	246.4	10.2	3.23	R410A	20.3	25	11.1	460/3/60	30x37x66	465	(1)(2)(3)(4)
		REMQ120PBYD								20.5	30	11.7	460/3/60	30x37x66	575	(1)(2)(3)(4)
		REMQ120PBYD								20.5	30	11.7	460/3/60	30x37x66	575	(1)(2)(3)(4)
HP-2	DAIKIN REYQ168PBYD	REMQ96PBYD	OFFICE LVL 2	ROOF	143.8	132.2	12	3.7	R410A	20.3	25	11.1	460/3/60	30x37x66	465	(1)(2)(3)(4)
		REMQ72PBYD								20.2	25	11.1	460/3/60	30x37x66	465	(1)(2)(3)(4)
HP-3	DAIKIN REYQ144PBYD	REMQ72PBYD	SHOP AREA	ROOF	118.7	114.3	13.8	3.8	R410A	20.2	25	11.1	460/3/60	30x37x66	465	(1)(2)(3)(4)
		REMQ72PBYD								20.2	25	11.1	460/3/60	30x37x66	465	(1)(2)(3)(4)

(1) CAPACITY BASED AT 5,070 FEET ELEVATION.
(2) COOLING CAPACITY RATED FOR 96 DEG F. HEATING CAPACITY RATED AT 6 DEG F.
(3) EACH OUTDOOR UNIT CONSISTS OF MULTIPLE CONDENSING UNITS, EACH WITH A SEPARATE ELECTRIC FEEDER.

EXPANSION TANK SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	TYPE	FLUID WORKING FLUID	FLUID MIN. TANK ACCEPTANCE (GAL)	FLUID INITIAL FILL PRESSURE (PSI)	PHYSICAL TANK SIZE (GAL)	PHYSICAL RELIEF VALVE (PSIG)	PHYSICAL DIA./ HEIGHT (IN)	PHYSICAL NPT FITTING (IN)	PHYSICAL WEIGHT (LBS)	NOTES
ET-1	B&G B-300	BOILER C203	HOT WATER	BLADDER	WATER	79/79	27	79	75	24 / 52	1	250	
ET-2	B&G B-300	BOILER C203	GLYCOL PREHEAT	BLADDER	30% PPG	79/79	30	79	75	24 / 52	1	250	

HOT WATER RADIANT PANEL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	EFFECTIVE LENGTH (FT)	TUBES	PANEL HEIGHT (IN)	PANEL WIDTH (IN)	INSTALL HEIGHT (IN)	MINIMUM HEATING CAPACITY (BTUH/FT)	TOTAL FLUID FLOW (GPM)	EWT/ LWT (DEG. F)	NOTES
RP-1	PANEL RADIATOR PR2F-2	(3)	WALL/PEDESTAL	(3)	4	5.75	3.5	11.625	531	(3)	150/130	(1)(2)(4)
RP-2	PANEL RADIATOR PRC-8	(3)	CEILING	(3)	8	3	23.125	---	430	(3)	150/130	(2)(4)(5)

(1) PROVIDE MOUNTING SYSTEM (PEDESTAL OR WALL) AND HARDWARE WITH END TRIM CAPS, CENTER TRIM, AND CORNER TRIM AS REQUIRED.
(2) ENCLOSURE SHALL BE 16 GAUGE COLD ROLLED STEEL WITH WELDED ENDS AND POLYESTER POWDER COAT FINISH. HEADERS SHALL CONTAIN ALL SUPPLY, RETURN, AND AIR VENT CONNECTIONS AS REQUIRED. SUBMIT COLOR CHART INCLUDING ALL AVAILABLE COLORS FROM KWAL PAINT AND SHERWIN WILLIAMS TO ARCHITECT PRIOR TO SUBMITTAL FOR APPROVAL.
(3) SEE PLANS.
(4) ALL CAPACITIES BASED ON 65 DEG-F ROOM TEMPERATURE, 140 DEG-F AVERAGE WATER TEMPERATURE, AND HOT WATER AS WORKING FLUID.
(5) PROVIDE MOUNTING SYSTEM AND ALL HARDWARE REQUIRED FOR CEILING HUNG INSTALLATION. CEILING HUNG PANELS SHALL BE FLUSH WITH CEILING AND SHALL FIT IN A STANDARD 2 FT WIDE LAY-IN OR HARD LID CEILING AS DETERMINED BY CEILING TYPE.

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOD D. VERNON
STATE OF UTAH

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801)532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

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MECHANICAL SCHEDULES

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ME601

100% Construction Documents

AIR-TO-AIR ENERGY RECOVERY SCHEDULE

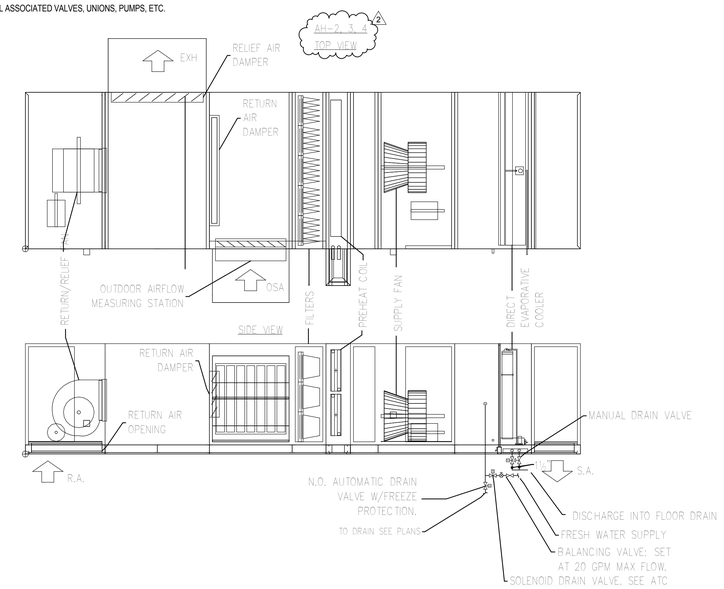
ID	MANUFACTURER	AREA SERVICE	MODEL NUMBER	MAX OPERATING WEIGHT (LBS)	SUPPLY AIRFLOW RATE (CFM)	SUPPLY EXTERNAL STATIC PRESSURE (IN. WG)	SUPPLY FAN RPM	SUPPLY FAN BHP	SUPPLY MOTOR HP	SUPPLY MOTOR RPM	SUPPLY MOTOR TYPE	EXHAUST AIRFLOW RATE (CFM)	EXHAUST EXTERNAL STATIC PRESSURE (IN. WG)	EXHAUST FAN RPM	EXHAUST FAN BHP	EXHAUST MOTOR HP	EXHAUST MOTOR RPM	EXHAUST MOTOR TYPE	WHEEL PERFORMANCE SUMMER EAT DB/WB	WHEEL PERFORMANCE SUMMER LAT DB/WB	WHEEL PERFORMANCE WINTER EAT DB/WB	WHEEL PERFORMANCE WINTER LAT DB/WB	HEATING COIL PERFORMANCE AIR EAT DB/WB	HEATING COIL PERFORMANCE AIR LAT DB	HEATING COIL PERFORMANCE FLUID (7) EWT/ LWT	HEATING COIL PERFORMANCE FLUID (7) FLOW GPM	HEATING COIL PERFORMANCE FLUID (7) P.D. FT. HD.	ELECTRICAL VOLTS / PHASE / CYCLE	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL FROST PRE-HEAT KW	SOUND DATA AT SUPPLY/EXHAUST PER OCATVE 1	2	3	4	5	6	7	8	COMMENTS
ERV-1	GREENHECK	OFFICE VRV VENT	ERH-90H-30	5,625	6,040	1.1	1,156	4.1	5	1725	ODP	5,450	0.81	961	2.63	3	1725	ODP	97/63	77.7/58.8	0.0/-1.8	54.1/44.0	0.0/-1.8	60	140/110	23	2	460/3/60	48.6	50	20	76	92	86	84	83	82	80	74	(1)(2)(3)(4)(5)(6)(7)(8)(10)(11)(12)
ERV-2	GREENHECK	SHOP VRV VENT	ERH-45H-30	2,800	4,100	0.86	1,470	3	5	1725	ODP	3,890	0.65	1193	1.98	2	1725	ODP	97/63	77.6/58.8	0.0/-1.8	54.3/44.0	0.0/-1.8	60	140/110	16	1.8	460/3/60	30.4	35	10	89	78	71	71	68	69	66	53	(1)(2)(3)(4)(5)(6)(7)(8)(10)(11)(12)

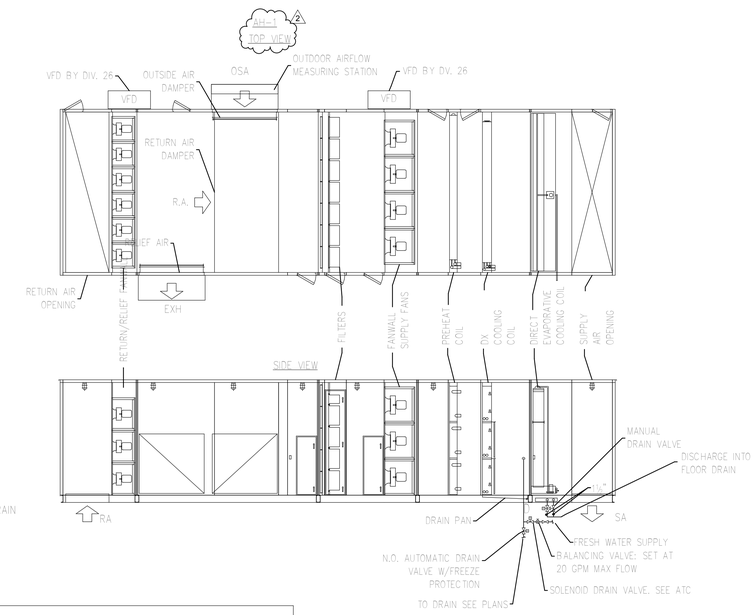
(1) ALL CAPACITIES AT 5070 FT ELEVATION
(2) PROVIDE ELECTRIC PRE-HEAT FROST CONTROL HEATER, FACTORY SET TO ENERGIZE AT 0 °F AT 460V.
(3) OUTDOOR CONDITIONS BASED ON 97 DB/63 WB SUMMER AND 0 DEG DB WINTER. INDOOR CONDITIONS BASED ON 72 DEG, 50% RH SUMMER AND 72 DEG 35% RH WINTER.
(4) PROVIDE MOTORIZED INTAKE DAMPER, MOTORIZED EXHAUST DAMPER, SPRING ISOLATED ROOF CURB, INTAKE/EXHAUST HOODS, PREMIUM EFFICIENCY MOTORS, ROTATION SENSOR, DIRTY FILTER SENSOR, MERV-8 PREFILTER AND MERV-13 FINAL FILTER (SUPPLY), MERV-8 FILTER (EXHAUST), SPARE FILTERS. MOTORIZED DAMPERS SHALL BE INTERLOCKING WITH FAN BY DIV. 23.
(5) 4" TOTAL RECOVERY HEAT WHEEL
(6) PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
(7) HEATING COIL PERFORMANCE BASED ON 50% P.P.G.
(8) SUPPLY & EXHAUST DOWN DISCHARGE THRU CURB. SEE PLANS.
(9) SUPPLY & EXHAUST HORIZONTAL DISCHARGE ONTO ROOF. SEE PLANS.
(10) EQUIPPED WITH FACTORY MOUNTED STARTER AND 115 VOLT CONVENIENCE OUTLET. DISCONNECT BY DIV. 26.
(11) SUBMIT POWDER COATED COLOR PALLET TO ARCHITECT FOR CUSTOM COLOR SELECTION.
(12) UNIT SHALL BE EQUIPPED WITH SIDE ENCLOSURE PIPE CHASE SUFFICIENT IN SIZE TO HOUSE HEATING COIL AND ALL ASSOCIATED VALVES, UNIONS, PUMPS, ETC.

ROOFTOP AIR HANDLER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AREA SERVED	TYPE	AIR SUPPLY AIRFLOW (CFM)	AIR MINIMUM AIRFLOW (CFM)	MINIMUM VENTILATION RATE (CFM)	SUPPLY FAN EXTERNAL S.P. (IN. WATER)	RETURN FAN EXTERNAL S.P. (IN. WATER)	SUPPLY FAN MINIMUM ACTIVE FANS	SUPPLY FAN AIRFLOW PER FAN (CFM)	RETURN FAN MINIMUM ACTIVE FANS	RETURN FAN AIRFLOW PER FAN (CFM)	COILS HEATING COIL (7)	COILS COOLING COIL (7)	FILTERS PRE-FILTER (MERV)	FILTERS FINAL FILTER (MERV)	ELECTRICAL VOLT/PH/HZ	SUPPLY FAN EACH MOTOR (HP)	SUPPLY FAN TOTAL MOTOR (HP)	RETURN FAN EACH MOTOR (BHP)	RETURN FAN TOTAL MOTOR (BHP)	SUPPLY FAN OPERATING FREQUENCY (HZ)	RETURN FAN EACH MOTOR (HP)	RETURN FAN TOTAL MOTOR (HP)	RETURN FAN EACH MOTOR (BHP)	RETURN FAN TOTAL MOTOR (BHP)	PHYSICAL CABINET LENGTH/ WIDTH/HEIGHT (IN)	PHYSICAL WEIGHT (LB)	NOTES
AH-1	HUNTAIR	ROOF	ADMINISTRATION	FANWALL VAV AHU	51,100	15,330	12,000	2.5	1.5	12	4258	18	2838	PHC-1	CC-1 / EC-1	8	13	460/3/60	5	60	4.25	50.95	81.6	1.5	27	1.15	20.64	615/184/140	58000	(1)(2)(3)(4)(5)(6)(8)
AH-2	MCQUAY OAH035GHDC	ROOF	WELDING LAB	VAV MAU	17,050	6,470	---	1.0	0.75	1	17,050	1	17,050	PHC-2	EC-2	8	13	460/3/60	---	15	---	9.35	---	---	20	---	18.04	362/102/66	11,000	(1)(2)(3)(4)(5)(6)(8)
AH-3	MCQUAY OAH017GHDC	ROOF	CONSTRUCTION TECH LAB	VAV MAU	7,400	60	---	1.0	0.75	1	7400	1	7,400	PHC-3	EC-3	8	13	460/3/60	---	7.5	---	4.84	---	---	5	---	3.94	300/80/46	6,200	(1)(2)(3)(4)(5)(6)(8)
AH-4	MCQUAY OAH030GHDC	ROOF	DIESEL LAB	VAV MAU	12,900	7,540	---	1.0	0.75	1	12,900	1	12,900	PHC-4	EC-4	8	13	460/3/60	---	10	---	6.38	---	---	10	---	8.66	340/98/60	10,000	(1)(2)(3)(4)(5)(6)(8)

(1) CAPACITY BASED ON 5,070 FEET ELEVATION.
(2) COOLING BASED ON 97DB/63WB DEG F AMBIENT. HEATING BASED ON 0 DEG F AMBIENT.
(3) EQUIPPED WITH FACTORY MOUNTED AND WIRED LIGHTS AND 115 VOLT CONVENIENCE OUTLET (POWERED BY DIV. 26).
(4) UNIT SHALL BE WIRED TO ACCEPT FIELD MOUNTED VFD. VFD SHALL BE PROVIDED AND INSTALLED BY DIVISION 26. CONTROLS BY ATC. COORDINATE NECESSARY CONTACTS WITH ATC CONTRACTOR. SEE SEQUENCE OF OPERATIONS.
(5) UNIT SHALL BE EQUIPPED WITH AIRFLOW MEASURING STATION (AFMS) ON OUTDOOR AIR INTAKE AND EXHAUST DISCHARGE. PROVIDE COLLARS ON INTAKE AND EXHAUST TO ALLOW FOR SENSOR MOUNTING.
(6) UNIT SHALL BE MOUNTED ON 14" ROOF CURB.
(7) SEE COIL SCHEDULE FOR MORE INFORMATION.
(8) UNIT SHALL BE EQUIPPED WITH SIDE ENCLOSURE PIPE CHASE SUFFICIENT IN SIZE TO HOUSE HEATING COIL AND ALL ASSOCIATED VALVES, UNIONS, PUMPS, ETC.





AIR HANDLER COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	USAGE	AIR AIRFLOW RATE (CFM)	AIR TOTAL CAPACITY (BTU/H)	AIR SENSIBLE CAPACITY (BTU/H)	AIR ENTERING TEMP. DB/WB (°F)	AIR LEAVING TEMP. DB/WB (°F)	AIR STATIC PRESSURE (IN. WATER)	FLUID FLOW RATE (GPM)	FLUID ENTERING/ LEAVING TEMP. (°F)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	PHYSICAL NO. COILS	PHYSICAL EACH COIL FIN WIDTH/ HEIGHT (IN)	PHYSICAL MINIMUM FACE AREA (FT²)	PHYSICAL MINIMUM NO. ROWS/ FINS PER INCH	NOTES
PHC-1	HUNTAIR	AH-1	HEATING	15,300	1,195,000	---	0	75.3	0.01	61.8	140/99.3	30% PPG	2.25	3	160 x 39	130	2 / 6	(1)
DX-1	HUNTAIR	AH-1	COOLING	51,100	1,280,823	1,229,648	79.2/60.4	51.9/50.3	0.27	---	---	R410A	---	3	156 x 39	126.75	6 / 6	(1)
EC-1	HUNTAIR	AH-1	EVAP COOLING	51,100	1,448,016	---	97/63	72	0.24	11.2	---	WATER	---	1	156 x 124	103.4	---	(1)(2)(3)(5)
PHC-2	MCQUAY 5WL0704B	AH-2	HEATING	17,050	1,282,434	---	0	83	0.26	86.6	140/108.9	30% PPG	6.7	2	89 x 27	33.38	4 / 7	(1)
EC-2	MCQUAY	AH-2	EVAP COOLING	17050	538,016	---	97/63	65.3	0.24	4.1	---	WATER	---	1	98 x 62	35	---	(1)(2)(3)(4)
PHC-3	MCQUAY 5WH0804B	AH-3	HEATING	7,400	611,346	---	0	91.2	0.23	37.6	140/105.8	30% PPG	9.1	1	67 x 36	16.75	4 / 8	(1)
EC-3	MCQUAY	AH-3	EVAP COOLING	7,400	236,755	---	97/63	64.9	0.18	1.8	---	WATER	---	1	76 x 43	17.2	---	(1)(2)(3)(4)
PHC-4	MCQUAY 5WL0903B	AH-4	HEATING	12,900	948,933	---	0	81.2	0.2	70	140/111.5	30% PPG	5.7	2	85 x 24	28.33	3 / 9	(1)
EC-4	MCQUAY	AH-4	EVAP COOLING	12,900	412,209	---	97/63	64.9	0.19	3.2	--	WATER	---	1	94 x 56	29.7	---	(1)(2)(3)(4)

(1) ALL CAPACITIES AT 5,070 FEET ELEVATION.
(2) EVAPORATIVE AIR COOLER TO BE FURNISHED WITH ITS ASSOCIATED AIR HANDLER.
(3) EQUIPPED WITH THE FOLLOWING OPTIONS:
(A) AUTOMATIC DRAIN VALVE PLUS FREEZE PROTECTION KIT WITH THE FOLLOWING ITEMS:
(I) MOTORIZED DRAIN VALVE (COORDINATE WITH ATC)
(II) ADJUSTABLE 24 HOUR TIME
(III) OUTDOOR FREEZE PROTECTION THERMOSTAT AND INDOOR SOLENOID 3-WAY FILL VALVE.
(IV) MAINTAINS EMPTY RESEVOIR DURING FREEZING WEATHER.
(B) STAINLESS STEEL RESEVOIR AND CABINET.
(4) UNIT EQUIPPED WITH 1/40 HP SUMP PUMP. DIVISION 26 TO PROVIDE AND POWER 115V/1PH ELECTRICAL OUTLETS FOR PUMP CONNECTION.
(5) UNIT EQUIPPED WITH 1/6 HP SUMP PUMP. DIVISION 26 TO PROVIDE AND POWER 115V/1PH ELECTRICAL OUTLETS FOR PUMP CONNECTION.

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
STATE OF UTAH

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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WELDING EXHAUST HOSE ASSEMBLY SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW (CFM)	QUANTITY	PHYSICAL HOSE DIAMETER (IN)	PHYSICAL HOSE LENGTH (FT)	NOTES
WHA-1	CAR-MON 6M	WELDING LAB C107	600	15	6	10	(1)

(1) WELDING EXHAUST HOSE ASSEMBLY COMPLETE WITH INTEGRAL WELDING FUME RECEPTOR WITH SWIVEL HEAD AND CORROSION RESISTANT COLLECTOR SCREEN, WELDPROOF TYPE HOSE, AND HAND DAMPER WITH LOCKING QUADRANT.

PORTABLE AIR CLEANER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW RATE (CFM)	ARM LENGTH (FT)	ARM DIAMETER (IN)	FILTERS PRE-FILTER EFFICIENCY (%)	FILTERS FINAL FILTER EFFICIENCY (%)	ELECTRICAL VOLT/PH/HZ	ELECTRICAL MOTOR HP	PHYSICAL LENGTH / WIDTH / HEIGHT (IN)	NOTES
PAC-1	CARMON CMX-124PA	WELDING LAB C107	1000	10	8	30%	95%	460/3/60	1.5	38/27/68	(1)
PAC-2	CARMON CMX-124PA	WELDING LAB C107	1000	10	8	30%	95%	460/3/60	1.5	38/27/68	(1)
PAC-3	CARMON CMX-124PA	WELDING LAB C107	1000	10	8	30%	95%	460/3/60	1.5	38/27/68	(1)

(1) UNIT EQUIPPED WITH BASE MOUNTED CASTERS FOR EASE OF MOVEMENT, ALUMINUM PRE-FILTER, 95% FINAL FILTER AND 15 FT POWER CORD.

ARTICULATED EXHAUST ARM ASSEMBLY SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW (CFM)	PHYSICAL HOSE DIAMETER (IN)	PHYSICAL HOSE LENGTH (FT)	NOTES
AA-1	CAR-MON SERIES AT	CE & R LAB C121	900	8	15	(1)
AA-2	CAR-MON SERIES AT	CE & R LAB C121	900	8	15	(1)

(1) ARTICULATED EXHAUST ARM ASSEMBLY COMPLETE WITH HIGH TEMPERATURE HOSE RATED FOR (1000°F) OPERATING TEMPERATURE, MODEL RDS-7 DIESEL STACK ADAPTER, MODEL LFT-25 HOSE RETRACTOR AND POSITIONING POLE.

GAS FIRED RADIANT TUBE HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	INPUT CAPACITY (MBH)	LENGTH (FT)	FUEL TYPE	ELECTRICAL VOLT/PH/HZ	ELECTRICAL MAX CURRENT (AMPS)	PHYSICAL EXHAUST FLUE Ø (IN)	PHYSICAL WEIGHT (LBS)	PHYSICAL MIN. MOUNTING HEIGHT (FT)	NOTES
IH-1	AMBIRAD VPLUS125	CONST. TECH LAB C103	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-2	AMBIRAD VPLUS125	CONST. TECH LAB C103	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-3	AMBIRAD VPLUS125	CONST. TECH LAB C103	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-4	AMBIRAD VPLUS125	WELDING LAB C107	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-5	AMBIRAD VPLUS125	WELDING LAB C107	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-6	AMBIRAD VPLUS125	WELDING LAB C107	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-7	AMBIRAD VPLUS150	CE & R LAB C121	TUBE	150	50	NAT. GAS	120/1/60	1.2	4	265	18	(1)(2)(3)(4)(5)(6)(7)
IH-8	AMBIRAD VPLUS150	CE & R LAB C121	TUBE	150	40	NAT. GAS	120/1/60	1.2	4	200	18	(1)(2)(3)(4)(5)(6)(7)
IH-9	AMBIRAD VPLUS150	CE & R LAB C121	TUBE	150	40	NAT. GAS	120/1/60	1.2	4	200	18	(1)(2)(3)(4)(5)(6)(7)

(1) MOUNT PER MANUFACTURER'S RECOMMENDATIONS AS HIGH AS POSSIBLE.
(2) GAS SUPPLY PRESSURE SHALL BE 5-10 INCH W.C.
(3) UNIT COMPLETE WITH GAS VALVE, ALUMINUM REFLECTORS, FACTORY GAS COCK, REFLECTOR END CAPS, HOT SURFACE IGNITION, AND ALL ACCESSORIES REQUIRED FOR MOUNTING.
(4) CAPACITY AT SEA LEVEL.
(5) MINIMUM MOUNTING HEIGHT SHALL BE 16'-0" (IH-1 THRU 6) AND 18'-0" (IH-7, 8, 9)
(6) INSTALL PER MANUFACTURER'S RECOMMENDED CLEARANCES: 6" ABOVE REFLECTOR, 20" ABOVE BURNER, 74" BENEATH TUBES, 39" SIDES, 18" FROM END OF TUBE.
(7) CONTROL: ATC.

SPLIT AIR CONDITIONING UNIT SCHEDULE

ID	MANUFACTURER	LOCATION	COOLING CAPACITY RANGE (MBH)	INDOOR UNIT MODEL	INDOOR UNIT CFM	INDOOR UNIT DIMENSIONS WxDxH (IN)	INDOOR UNIT WEIGHT (LBS)	INDOOR UNIT MCA (1) (AMPS)	INDOOR UNIT MOCP (AMPS)	INDOOR UNIT VOLT	INDOOR UNIT PHASE	INDOOR UNIT HZ.	OUTDOOR UNIT MODEL	OUTDOOR UNIT WEIGHT (LBS)	OUTDOOR UNIT DIMENSIONS WxDxH (IN)	OUTDOOR UNIT MCA (1) (AMPS)	OUTDOOR UNIT MOCP (AMPS)	OUTDOOR UNIT VOLT	OUTDOOR UNIT PHASE	OUTDOOR UNIT HZ.	EFFICIENCY SEER	REFRIGERANT	NOTES
AC-1, CU-1	FUJITSU 18CL	ELECTRICAL A121	19.0-5.5	ASU18CL	412-218	31x9x11	20	1	15	208	1	60	AOU18CL	88	34x12x23	16	20	208	1	60	19	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-2, CU-2	FUJITSU 24CL1	MAIN ELECTRICAL C109	24.0-3.1	ASU24CL1	659-365	39x9x13	31	1	15	208	1	60	AOU24CL1	88	34x12x24	10.5	20	208	1	60	17.5	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-3, CU-3	FUJITSU 36CLX1	IT LAB A209	34.1-9.9	ASU36CLX	706-365	40x9x13	31	1	15	208	1	60	AOU36CLX	137	36x13x33	22	30	208	1	60	15	R410A	(1)(2)(3)(4)(5)(6)(7)
~~AC-4, CU-4~~	~~FUJITSU 36CLX1~~	~~SERVER / IT STORAGE A210~~	~~34.1-9.9~~	~~ASU36CLX~~	~~706-365~~	~~40x9x13~~	~~31~~	~~1~~	~~15~~	~~208~~	~~1~~	~~60~~	~~AOU36CLX~~	~~137~~	~~36x13x33~~	~~22~~	~~30~~	~~208~~	~~1~~	~~60~~	~~15~~	~~R410A~~	~~(1)(2)(3)(4)(5)(6)(7)~~
AC-5, CU-5	FUJITSU 18CL	IT WORKROOM C204	19.0-5.5	ASU18CL	412-218	31x9x11	20	1	15	208	1	60	AOU18CL	88	34x12x23	16	20	208	1	60	19	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-6, CU-6	FUJITSU 12RLS	ELEV. EQ. B117	14.5-3.8	ASU12RLS	430-177	31x9x12	24	1	15	208	1	60	AOU12RLS	88	31x12x24	15	20	208	1	60	13.7	R410A	(1)(2)(3)(4)(5)(6)(7)

(1) SINGLE POINT POWER CONNECTION FOR INDOOR AND OUTDOOR UNITS. ALTERNATIVE MANUFACTURER'S MAY DIFFER. DISCONNECT BY DIV. 26.
(2) SYSTEM COMPLETE WITH FACTORY SUPPLIED, FIELD INSTALLED OPTIONS AS FOLLOWS: LOW AMBIENT TO 0°F; WINTER START CONTROL; LIQUID LINE SOLENOID VALVE, CRANK CASE HEATER; SNOW/ICE STAND; WIRED T-STAT WITH ON/OFF COOL; TXV AND ROOM SETPOINT TEMP OPTIONS; INTEGRAL CONDENSATE DRAIN PUMP.
(3) ELECTRICAL: COMPLETE WITH INTEGRAL STARTER. DISCONNECT BY DIV. 26. (QTY (2). 1 EA. FOR INDOOR AND OUTDOOR UNIT)
(4) MAX OUTDOOR SOUND LEVEL 56dbA.
(5) REFRIGERANT LINE SIZED IN ACCORDANCE WITH MANUFACTURER'S SUGGESTED LINE SIZE.
(6) EQUIPPED WITH VARIABLE SPEED INVERTER DRIVEN COMPRESSOR PROVIDING THE RANGE OF CAPACITIES NOTED. MODULATING COMPRESSOR SPEED TO REDUCE CYCLING.

UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	DISCHARGE	AIR AIRFLOW RATE (CFM)	AIR CAPACITY (BTU/H)	FLUID ENTERING / LEAVING TEMP. (°F)	FLUID FLOW RATE (GPM)	FLUID ENTERING/ LEAVING TEMP. (°F)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	ELECTRICAL MOTOR SIZE (HP)	ELECTRICAL MOTOR SPEED (RPM)	ELECTRICAL AMPS	ELECTRICAL VOLT/PH/HZ	PHYSICAL CABINET DIMENSIONS LxWxH (IN)	PHYSICAL WEIGHT (LBS)	NOTES
UH-1	RITTLING RH-63	WAREHOUSING LAB C101	HORIZONTAL	1,120	26,550	60/82.3	4.7	150/130	WATER	0.5	1/10	1550	1.3	115/1/60	26/13/19	61	(1)(2)
UH-2	RITTLING RH-63	WAREHOUSING LAB C101	HORIZONTAL	1,120	26,550	60/82.3	4.7	150/130	WATER	0.5	1/10	1550	1.3	115/1/60	26/13/19	61	(1)(2)
UH-3	RITTLING RH-33	BOILER C203	HORIZONTAL	630	15,750	60/87.2	2.5	150/130	WATER	0.12	1/15	1550	0.72	115/1/60	20/13/19	48	(1)(2)

(1) CAPACITIES BASED ON 60 DEGREE EAT AT 5,070 FEET ELEVATION.
(2) EQUIPPED WITH FACTORY MOUNTED STARTER AND DISCONNECT.

ROOF HOOD SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	TYPE	AIR AIR FLOW RATE (CFM)	AIR MAX. A.P.D. (IN H20)	SIZE HOOD DIMENSIONS L x W x H (IN)	SIZE THROAT DIMENSIONS (IN)	SIZE THROAT AREA (SQ. FT)	WEIGHT (LBS)	NOTES
RH-1	GREENHECK FGI	ROOF	BOILER ROOM VENTILATION	GRAVITY INTAKE	1640	0.044	42 x 48 x 19	26 x 26	4.69	100	(1)(2)

(1) ALL CAPACITIES BASED AT 5,070 FEET ELEVATION.
(2) DUCTED GRAVITY INTAKE HOOD. COMPLETE WITH INSECT SCREEN, PREFABRICATED ROOF CURB, AND MOTORIZED BACKDRAFT DAMPER. DAMPER TO BE INTERLOCKED TO OPEN WHEN EF-15 ENERGIZES.

FAN COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR MAXIMUM AIRFLOW RATE (CFM)	AIR HEATING CAPACITY (BTU/HR)	AIR EXTERNAL STATIC PRESSURE (IN. WATER)	FLUID ENTERING / LEAVING TEMP. (°F)	FLUID FLOW RATE (GPM)	FLUID ENTERING/ LEAVING TEMP. (°F)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	ELECTRICAL MCA	ELECTRICAL MOP	ELECTRICAL MOTOR SIZE (HP)	ELECTRICAL VOLT/PH/HZ	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
FC-1	WILLIAMS HP-008	MEDICAL ASSIST CLASS A101	DUCTED	580	16,385	0.48	60/90.6	1.6	150/130	WATER	1.8	4.0	15	1/4	120/1/60	32/26/17	140	(1)(2)(3)
FC-2	WILLIAMS HP-018	CONSTRUCTION TECH LAB C103	DUCTED	1,140	35,116	0.47	60/93.5	3.5	150/129	WATER	2.1	8.0	15	1/4	120/1/60	32/50/17	260	(1)(2)(3)

(1) CAPACITIES BASED ON 5,070 FEET ELEVATION AND 60 DEGREE ENTERING AIR TEMPERATURE.
(2) EQUIPPED WITH FACTORY MOUNTED STARTER, DISCONNECT, AND ALL ACCESSORIES REQUIRED FOR CEILING MOUNTING.
(3) CONTROL: WALL MOUNTED THERMOSTAT.

HOT WATER CABINET UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	MOUNTING ARRANGEMENT	AIR AIRFLOW RATE (CFM)	AIR CAPACITY (BTU/H)	FLUID ENTERING / LEAVING TEMP. (°F)	FLUID FLOW RATE (GPM)	FLUID ENTERING/ LEAVING TEMP. (°F)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	ELECTRICAL MOTOR SIZE (HP)	ELECTRICAL MOTOR SPEED (RPM)	ELECTRICAL AMPS	ELECTRICAL POWER INPUT (W)	ELECTRICAL VOLT/PH/HZ	PHYSICAL CABINET DIMENSIONS LxWxH (IN)	PHYSICAL WEIGHT (LBS)	NOTES
CUH-1	RITTLING RC-390-02	FIRE RISER A130	CEILING SURFACE MOUNT	275	7160	60/88	0.5	150/130	WATER	0.5	1/40	1080	0.55	60	120/1/60	38/27/10	85	(1)(2)(3)
CUH-2	RITTLING RFRC-420-02	1ST LVL CORRIDOR	CEILING RECESSED	275	7160	60/88	0.5	150/130	WATER	0.5	1/40	1080	0.55	60	120/1/60	38/27/10	85	(1)(2)(3)

(1) CAPACITIES BASED ON 5,070 FEET ELEVATION AND 60 DEGREE ENTERING AIR TEMPERATURE.
(2) EQUIPPED WITH FACTORY MOUNTED STARTER, DISCONNECT, AND ALL ACCESSORIES REQUIRED FOR CEILING MOUNTING.
(3) CONTROL: WALL MOUNTED THERMOSTAT.

BOILER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	DRAFT TYPE	FUEL TYPE	INPUT LOAD (MBH)	OUTPUT LOAD MBH	FLUID FLOW RATE (GPM)	FLUID ENTERING/ LEAVING TEMP. (°F)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	ELECTRICAL VOLT/PH/HZ	ELECTRICAL FLA	ELECTRICAL CONTROL CIRCUIT	PHYSICAL STACK DIAMETER (IN)	PHYSICAL WIDTH/ DEPTH/ HEIGHT (IN)	WEIGHT (LBS)	NOTES
B-1	AERCO BMK-3.0LN	BOILER C203	(2)	(2)	NAT. GAS	3000	2470.5	165	140/110	WATER	5	460/3/60	5	(4)	8	28/64/79	2580	(1)(2)(3)(4)(5)(6)(7)(8)
B-2	AERCO BMK-3.0LN	BOILER C203	(2)	(2)	NAT. GAS	3000	2470.5	165	140/110	WATER	5	460/3/60	5	(4)	8	28/64/79	2580	(1)(2)(3)(4)(5)(6)(7)(8)

(1) CAPACITY BASED ON 5,070 FEET ELEVATION.
(2) FORCED DRAFT NATURAL GAS, HIGH EFFICIENCY CONDENSING
(3) BOILERS SHALL BE EQUIPPED WITH A RELAY TO SHUT DOWN THE BOILER IN THE EVENT THAT THE ATC EMERGENCY STOP PUSH BUTTON IS ACTIVATED. COORDINATE WITH ATC CONTRACTOR.
(4) EQUIPPED WITH 4-20 mA DDC WATER TEMPERATURE CONTROL AND HIGH LIMIT CONTROL. PROVIDE BOILER COMMUNICATIONS MODULE. (COORDINATE CONTACTS AND RELAYS WITH CONTROLS CONTRACTOR). TEMPERATURE CONTROL SHALL BE ACCURATE TO WITHIN 5-DEGREES OF SETPOINT, 20:1 TURNDOWN RATIO.
(5) COMPLETE WITH ALARM BELLS AND HORNS, UL-CONTROL SYSTEM; EQUIPPED FOR LEAD/LAG SYSTEM WITH OUTDOOR AIR RESET. SEE CONTROL SEQUENCE.
(6) EQUIPPED WITH ASME 75 PSI RATED BOILER RELIEF VALVE & HIGH LIMIT CONTROL.
(7) BOILER SHALL BE EQUIPPED WITH FACTORY FURNISHED 2-PSIG TO OPERATING PRESSURE GAS PRESSURE REGULATOR AND GAS TRAIN.
(8) LOW Nox LESS THAN 20 PPM EMISSIONS AT ALL FIRINGS.

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOD D. VERNON
STATE OF UTAH

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925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

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2 Addendum 2 2-10-2012

MECHANICAL SCHEDULES

sheet:
ME604

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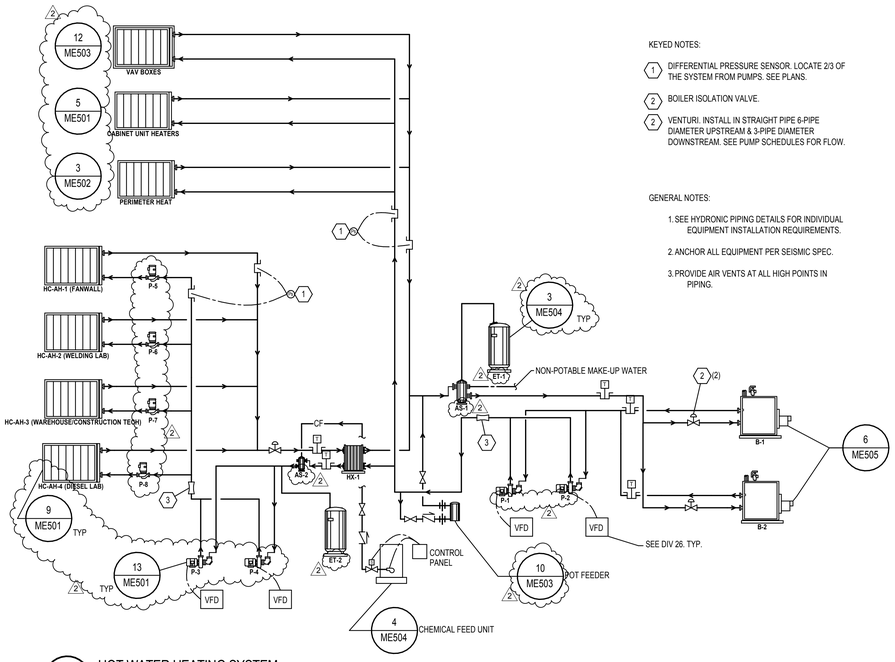


KEYED NOTES:

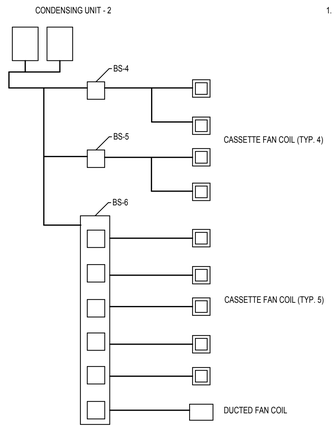
1. DIFFERENTIAL PRESSURE SENSOR. LOCATE 2/3 OF THE SYSTEM FROM PUMPS. SEE PLANS.
2. BOILER ISOLATION VALVE.
2. VENTURI. INSTALL IN STRAIGHT PIPE 6-PIPE DIAMETER UPSTREAM & 3-PIPE DIAMETER DOWNSTREAM. SEE PUMP SCHEDULES FOR FLOW.

GENERAL NOTES:

1. SEE HYDRONIC PIPING DETAILS FOR INDIVIDUAL EQUIPMENT INSTALLATION REQUIREMENTS.
2. ANCHOR ALL EQUIPMENT PER SEISMIC SPEC.
3. PROVIDE AIR VENTS AT ALL HIGH POINTS IN PIPING.

1 / ME605 HOT WATER HEATING SYSTEM

NO SCALE

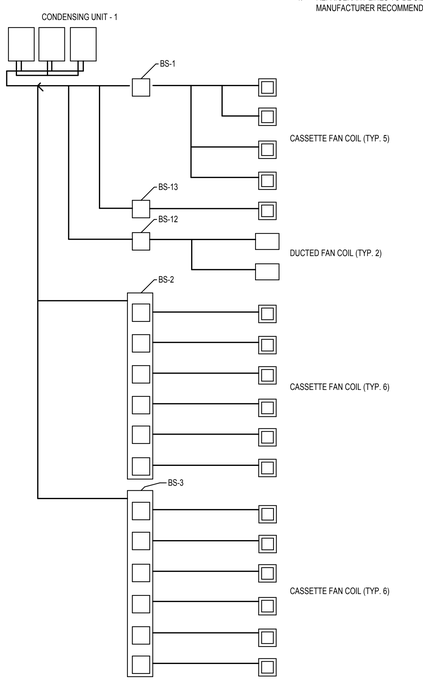


GENERAL NOTES:

1. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER RECOMMENDATIONS.

2 / ME605 HP-2 VRV PIPING SCHEMATIC

NO SCALE

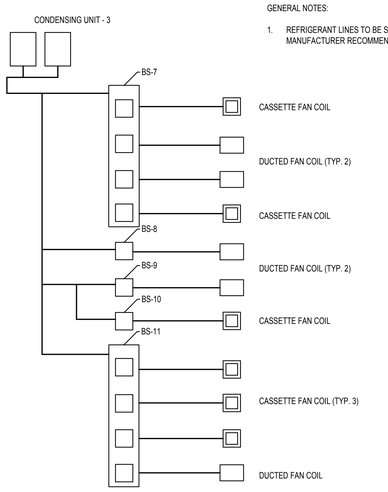


GENERAL NOTES:

1. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER RECOMMENDATIONS.

3 / ME605 HP-1 VRV PIPING SCHEMATIC

NO SCALE



GENERAL NOTES:

1. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER RECOMMENDATIONS.

4 / ME605 HP-3 VRV PIPING SCHEMATIC

NO SCALE

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MECHANICAL SCHEMATIC DIAGRAMS

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ME605

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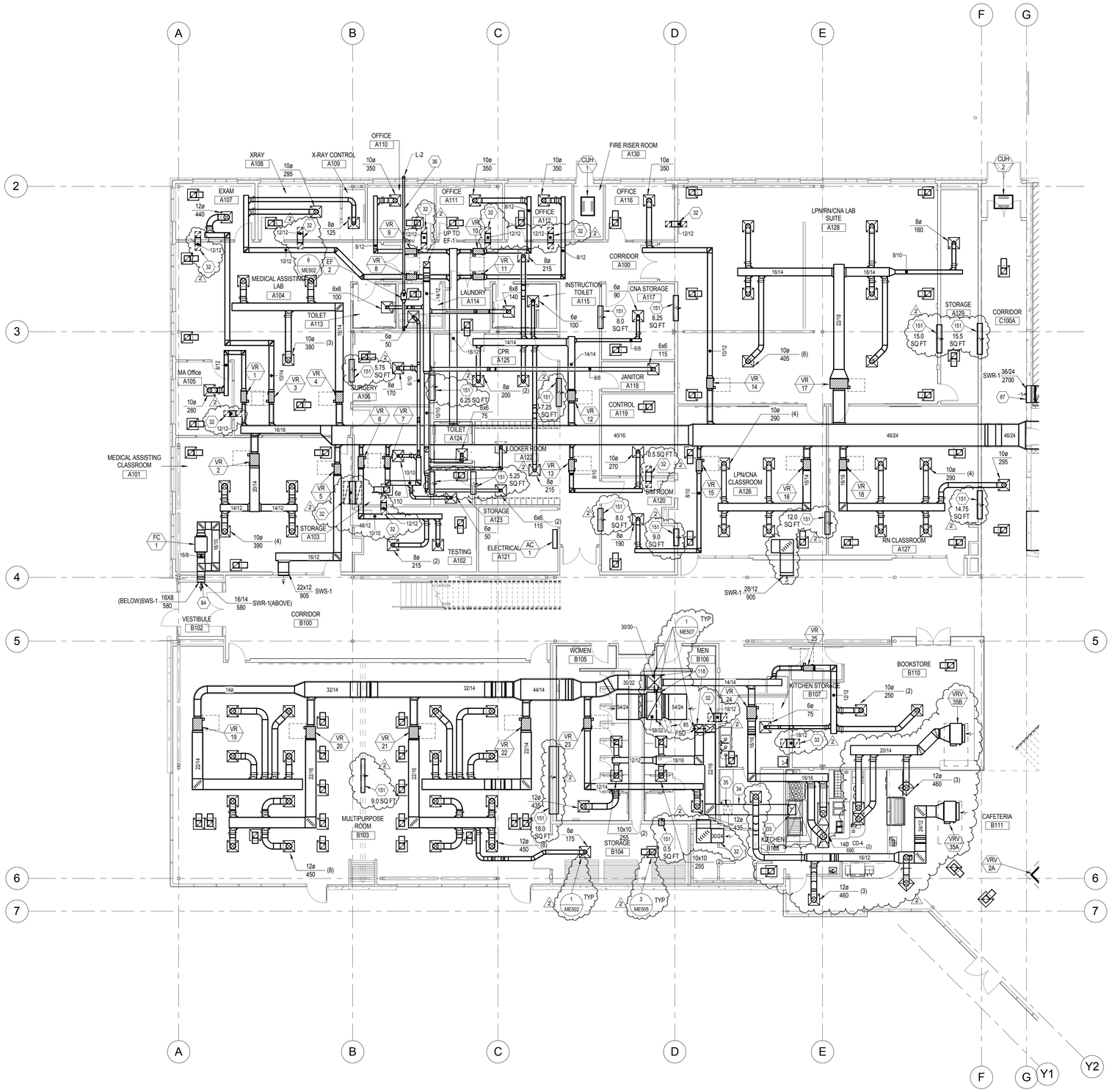

1 Lvl 1 Mechanical Plan 1
SCALE: 1/8" = 1'-0"

MH111 GENERAL SHEET NOTES

1 GREASE DUCT TEST: ALL DUCT SERVING TYPE 1 EXHAUST HOODS SHALL BE LEAK TESTED IN THE PRESENCE OF THE CODE OFFICIAL. TESTING SHALL BE CONDUCTED PRIOR TO WRAPPING OR CONCEALING THE DUCTWORK. THE LEAK TEST SHALL BE A LIGHT TEST IN ACCORDANCE WITH THE 2009 IMC SECTION 506.3.2.5. THE LEAK TEST SHALL BE PERFORMED ON THE ENTIRE DUCT SYSTEM, INCLUDING THE HOOD TO DUCT CONNECTION.

SHEET KEYNOTES

32 TRANSFER AIR SOUNDBOOT THROUGH WALL ABOVE CEILING. INSTALL PER DETAIL3/ME501. SIZE AS NOTED.

33 DUCT DOWN TO TYPE 1 KITCHEN HOOD EXHAUST CONNECTION. BALANCE EXHAUST AIR TO 1,725 CFM (APPROXIMATE). COORDINATE ACTUAL SIZE AND EXHAUST AIRFLOW RATE WITH KITCHEN HOOD SUPPLIER.

34 TYPE 1 EXHAUST DUCT TO BE 16 GA. WELDED CONSTRUCTION. ALL JOINTS SHALL BE SMOOTH, ACCESSIBLE FOR INSPECTIONS & WITHOUT GREASE TRAPS. WRAP DUCT WITH TWO LAYERS OF 1-1/2" THICK FIRE RESISTIVE DUCT WRAP - 2 HOUR RATING. PROVIDE 18" MINIMUM CLEARANCE TO NON-COMBUSTIBLE CONSTRUCTION PER 2009 IMC SECTION 506.3.10.1. SLOPE DUCT 2% MINIMUM BACK TOWARD HOOD. MINIMUM VELOCITY IS 500 FPM IN ACCORDANCE WITH 2009 IMC SECTION 506.3.4. PRIOR TO WRAPPING, THE GREASE DUCT SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE SPECIFICATIONS AND GENERAL NOTES (THIS SHEET).

35 GREASE DUCT CLEANOUT. CLEANOUT SHALL BE LOCATED ON THE SIDE OF THE DUCT. (SHOWN ON BOTTOM FOR CLARITY.) CLEAN OUT DOOR SHALL BE NOT LESS THAN 1.5" ABOVE THE BOTTOM OF THE DUCT AND NOT LESS THAN 1" BELOW THE TOP. MINIMUM OPENING DIMENSIONS 12" ON EACH SIDE. INSTALL CLEANOUT ACCESS DOORS IN ACCORDANCE WITH 2009 IMC SECTION 506.3.8, 506.3.9 & 506.3.11.

36 CLOTHES DRYER EXHAUST DUCT. EACH VERTICAL RISER SHALL BE PROVIDED WITH A MEANS FOR CLEANOUT. DUCT SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT EXHAUST FLOW. THE DUCT SHALL HAVE A SMOOTH INTERIOR FINISH WITH THE MALE END OF THE DUCT AT OVERLAPPED DUCT JOINTS EXTENDING IN THE DIRECTION OF AIRFLOW IN ACCORDANCE WITH 2009 IMC SECTION 504. PROVIDE DUCT SUPPORTS EVERY 4 FT.

84 THE SIDEWALL SUPPLY GRILLE SHALL BE INSTALLED DIRECTLY BELOW THE SIDEWALL RETURN GRILLE. INSTALL GRILLES CENTERED IN THE VESTIBULE WALL AS SHOWN.

85 PROVIDE 24" X 24" CEILING ACCESS PANEL. COORDINATE LOCATION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND LOCATION OF MECHANICAL EQUIPMENT.

87 MOUNT SIDEWALL RETURN GRILLE AT 12" AFF AND MATCH PENETRATION IN TILT UP PANEL. SEE LEVEL 2 MECHANICAL PLAN FOR RETURN DUCT CONTINUATION.

118 COMBINATION FIRE/SMOKE DAMPER INTO SHAFT. AS SPECIFIED, 1/4 SCALE SHOP DRAWINGS SHALL DETAIL SERVICE CLEARANCES AS REQUIRED BY THE SPECIFIC MANUFACTURER.

151 PROVIDE TRANSFER AIR OPENING IN WALL ABOVE CEILING. SIZE AS NOTED.

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LEVEL 1 MECHANICAL PLAN 1

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MH111

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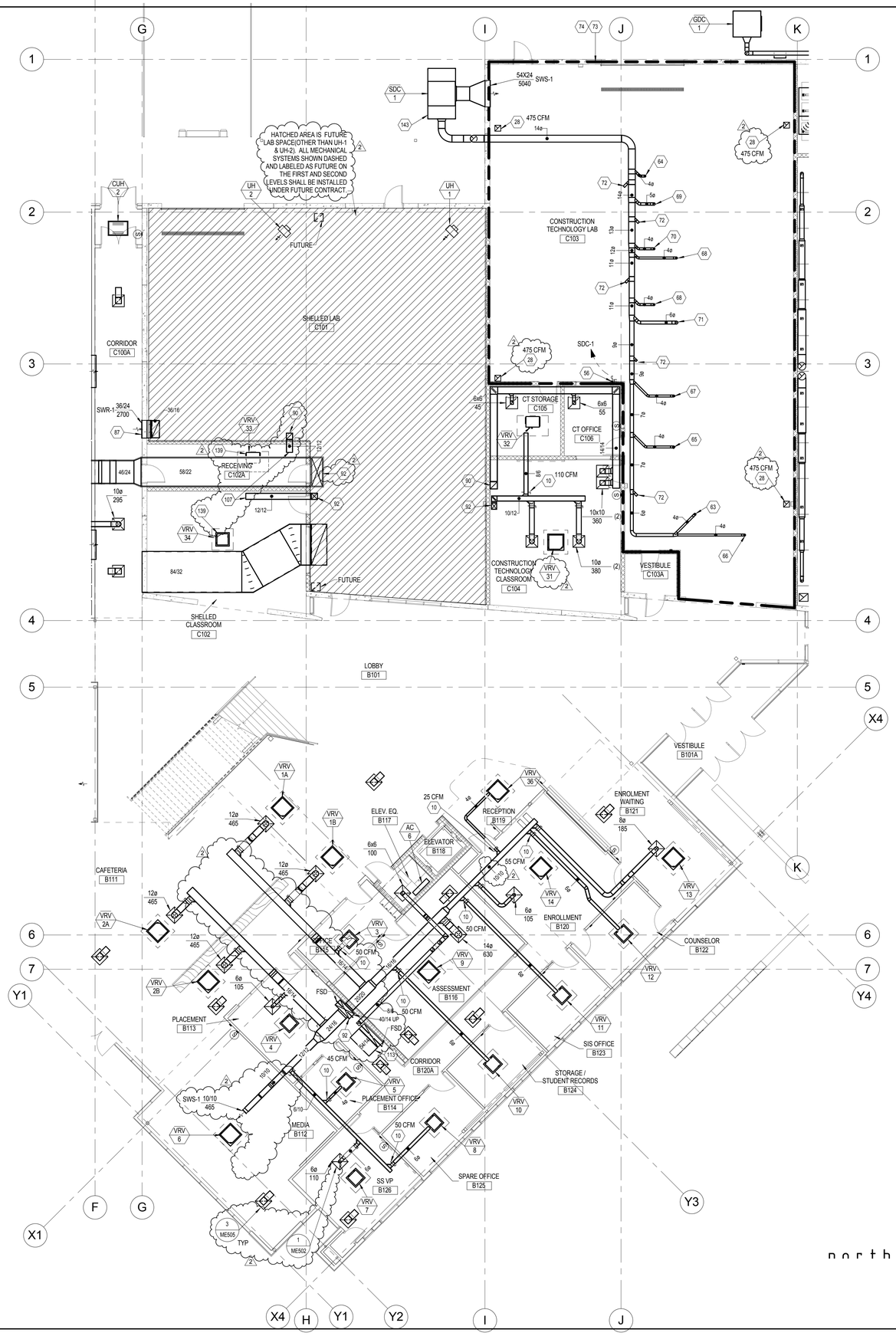

1 Lvl 1 Mechanical Plan 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

10 BALANCE VENTILATION TO AIRFLOW NOTED.

28 EXHAUST DUCT DOWN TO 12" AFF. DUCT SHALL BE OPEN ON THE BOTTOM WITH BIRD SCREEN INSTALLED. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

56 WALL MOUNTED SWITCH TO CONTROL THE EXHAUST FAN NOTED. CONTRACTOR SHALL PROVIDE PERMANENT LABELING OF SWITCH IDENTIFYING WHAT EQUIPMENT IT CONTROLS. COORDINATE SWITCH LOCATION WITH OWNER.

63 BELT/DISC SANDER. CONNECT TO INTEGRAL 4" DIA EXHAUST PORT WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

64 TABLE SAW. CONNECT TO INTEGRAL 4" DIA EXHAUST PORT WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

65 BANDSAW. CONNECT TO INTEGRAL 4" DIA EXHAUST PORT WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

66 PANEL SAW. CONNECT TO INTEGRAL 4" DIA EXHAUST PORT WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

67 OSCILLATING DRUM SANDER. CONNECT TO INTEGRAL 4" EXHAUST PORT WITH 4" FLEXIBLE HOSE. FLEXIBLE HOSE SHALL BE NO LONGER THAN 3 FT AND SHALL TRANSITION TO 4" DIA DUCT. BALANCE TO 400 CFM.

68 SHAPER/PLANER. CONNECT TO INTEGRAL 4" DIA EXHAUST CONNECTION WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

69 RADIAL ARM SAW. CONTRACTOR TO FIELD FABRICATE EXHAUST HOOD FOR SAWDUST CAPTURE. BALANCE TO 500 CFM. SEE DETAIL.

70 JOINTER. CONNECT TO INTEGRAL 4" DIA EXHAUST CONNECTION WITH 4" EXHAUST DUCT AND BALANCE TO 400 CFM.

71 WOOD LATHE. CONTRACTOR TO FIELD FABRICATE EXHAUST HOOD FOR SAWDUST CAPTURE. BALANCE TO 880 CFM. SEE DETAIL.

72 PROVIDE 4" DIA EXHAUST DUCT TAKEOFF FOR FUTURE CONNECTION.

73 LOCATION OF WOODWORKING EQUIPMENT AND SAWDUST COLLECTION EXHAUST DUCT ARE NOT FINALIZED AND ARE APPROXIMATIONS. THE CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT LOCATIONS WITH OWNER AND SHALL SUBMIT SHOP DRAWINGS OF THE SAWDUST COLLECTION SYSTEM FOR APPROVAL. MINIMUM DUCT VELOCITY FOR SAWDUST COLLECTION SYSTEM SHALL BE 4000 FPM.

74 CONTRACTOR TO PROVIDE A BLAST GATE IN THE EXHAUST DUCT NEAR EACH PIECE OF EQUIPMENT FOR ISOLATION. DUCT CLEANOUTS SHALL BE PROVIDED AT ALL DUCT RISERS.

87 MOUNT SIDEWALL RETURN GRILLE AT 12" AFF AND MATCH PENETRATION IN TILT UP PANEL. SEE LEVEL 2 MECHANICAL PLAN FOR RETURN DUCT CONTINUATION.

90 EXHAUST DUCT UP. SEE LEVEL 2 FOR CONTINUATION.

92 SUPPLY DUCT UP. SEE LEVEL 2 MECHANICAL PLAN FOR CONTINUATION.

107 CAP VENTILATION DUCT IN SHELL SPACE FOR FUTURE. DUCT SIZED FOR 570 CFM OA.

113 TRANSFER AIR DUCT UP/DOWN IN SHAFT.

139 EQUIPMENT IS LOCATED IN SHELLED SPACE AND IS SHOWN FOR SYSTEM SIZING AND INFORMATIONAL PURPOSES ONLY. NOT INCLUDED IN CONTRACT.

143 BID ALTERNATE NO. 10: ALL ITEMS ASSOCIATED WITH THE SAW DUST COLLECTION SYSTEM SHALL BE BID AS AN ALTERNATE.

MH112 GENERAL SHEET NOTES

1 BID ALT NO. 10: ALL ITEMS ASSOCIATED WITH THE CONTSTRUCTION TECHNOLOGY LAB SHALL BE BID AS AN ALTERNATE.

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LEVEL 1 MECHANICAL PLAN 2

sheet:
MH112

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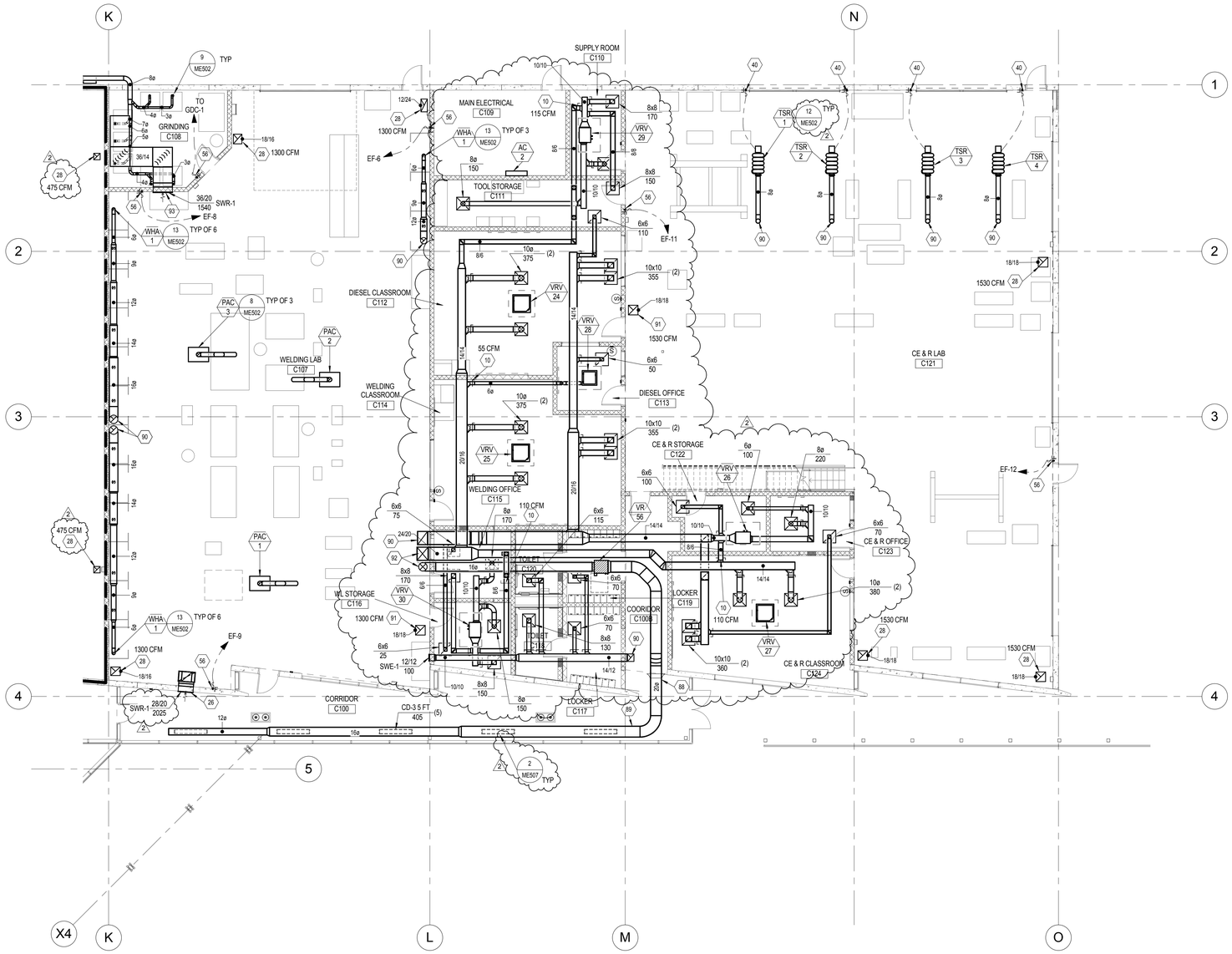


north

1 Lvl 1 Mechanical Plan 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

10 BALANCE VENTILATION TO AIRFLOW NOTED.

26 INSTALL SIDWALL RETURN GRILLE AT 12" AFF. COORDINATE EXACT LOCATION WITH PENETRATION OF TILT UP PANEL SHOWN ON ARCHITECTURAL PLAN.

28 EXHAUST DUCT DOWN TO 12" AFF. DUCT SHALL BE OPEN ON THE BOTTOM WITH BIRD SCREEN INSTALLED. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

40 WALL MOUNTED CONTROL FOR MOTORIZED EXHAUST TUBING STORAGE REEL. COORDINATE MOUNTING LOCATION WITH OWNER.

56 WALL MOUNTED SWITCH TO CONTROL THE EXHAUST FAN NOTED. CONTRACTOR SHALL PROVIDE PERMANENT LABELING OF SWITCH IDENTIFYING WHAT EQUIPMENT IT CONTROLS. COORDINATE SWITCH LOCATION WITH OWNER.

88 PROVIDE ESCUTCHEON AT EXPOSED WALL PENETRATION.

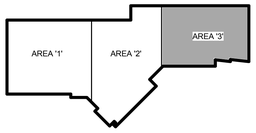
89 EXPOSED DUCTWORK SHALL BE UNPAINTED GALVANIZED AND SEALED TO MINIMIZE THE APPEARANCE OF SEALANT. NO MORE THAN A MINIMUM AMOUNT OF SEALANT WILL BE USED TO COMPLY WITH DUCT PRESSURIZATION REQUIREMENTS. LINE EXPOSED ROUND DUCT WITH SPIRECOUSTIC DUCT LINING.

90 EXHAUST DUCT UP. SEE LEVEL 2 FOR CONTINUATION.

91 EXHAUST DUCT DOWN TO APPROXIMATELY 10 FT AFF. DUCT SHALL BE OPEN ON THE BOTTOM WITH BIRD SCREEN INSTALLED. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

92 SUPPLY DUCT UP. SEE LEVEL 2 MECHANICAL PLAN FOR CONTINUATION.

93 SIDEWALL RETURN GRILLE TO PROVIDE MAKEUP AIR TO THE GRINDING ROOM. MOUNT AS HIGH AS POSSIBLE AND PROVIDE LINED DUCT SOUND ATTENUATION.



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LEVEL 1 MECHANICAL PLAN 3

sheet:
MH113

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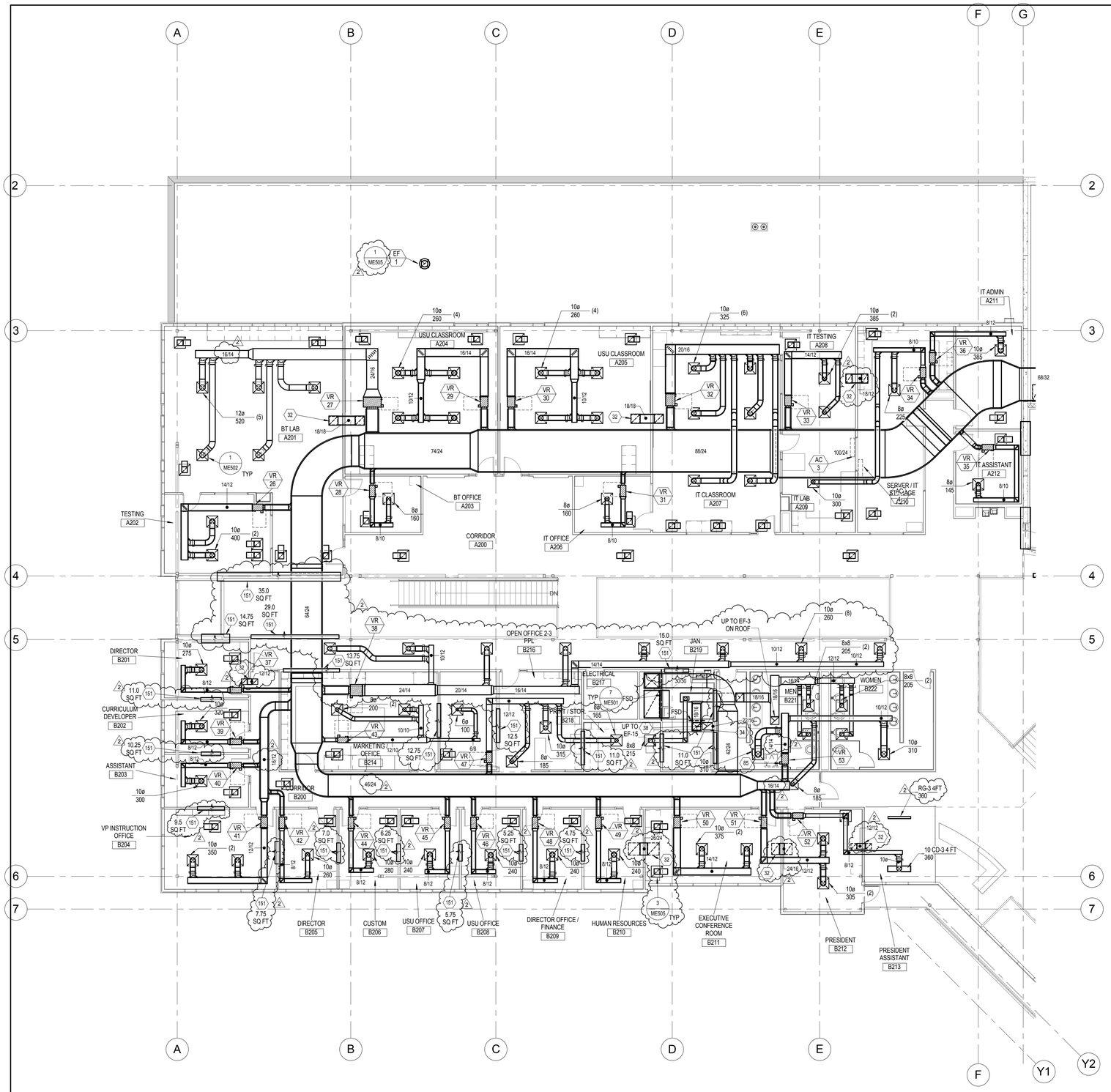
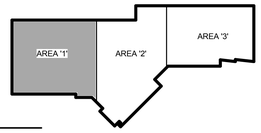


1 Lvl 2 Mechanical Plan 1
SCALE: 1/8" = 1'-0"

north



SHEET KEYNOTES

32 TRANSFER AIR SOUNDBOOT THROUGH WALL ABOVE CEILING. INSTALL PER DETAIL3/ME501. SIZE AS NOTED.

34 TYPE 1 EXHAUST DUCT TO BE 16 GA. WELDED CONSTRUCTION. ALL JOINTS SHALL BE SMOOTH, ACCESSIBLE FOR INSPECTIONS & WITHOUT GREASE TRAPS. WRAP DUCT WITH TWO LAYERS OF 1-1/2" THICK FIRE RESISTIVE DUCT WRAP - 2 HOUR RATING. PROVIDE 18" MINIMUM CLEARANCE TO NON-COMBUSTIBLE CONSTRUCTION PER 2009 IMC SECTION 506.3.10.1. SLOPE DUCT 2% MINIMUM BACK TOWARD HOOD. MINIMUM VELOCITY IS 500 FPM IN ACCORDANCE WITH 2009 IMC SECTION 506.3.4. PRIOR TO WRAPPING, THE GREASE DUCT SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE SPECIFICATIONS AND GENERAL NOTES (THIS SHEET).

38 KITCHEN HOOD EXHAUST DOWN TO HOOD AND UP TO EXHAUST FAN ON ROOF.

85 PROVIDE 24" X 24" CEILING ACCESS PANEL. COORDINATE LOCATION WITH ARCHITECTURAL. REFLECTED CEILING PLAN AND LOCATION OF MECHANICAL EQUIPMENT.

151 PROVIDE TRANSFER AIR OPENING IN WALL ABOVE CEILING. SIZE AS NOTED.

MH121 GENERAL SHEET NOTES

1 GREASE DUCT TEST: ALL DUCT SERVING TYPE 1 EXHAUST HOODS SHALL BE LEAK TESTED IN THE PRESENCE OF THE CODE OFFICIAL. TESTING SHALL BE CONDUCTED PRIOR TO WRAPPING OR CONCEALING THE DUCTWORK. THE LEAK TEST SHALL BE A LIGHT TEST IN ACCORDANCE WITH THE 2009 IMC SECTION 506.3.2.5. THE LEAK TEST SHALL BE PERFORMED ON THE ENTIRE DUCT SYSTEM, INCLUDING THE HOOD TO DUCT CONNECTION.

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project#: 11.0420
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LEVEL 2 MECHANICAL PLAN 1

sheet:
MH121

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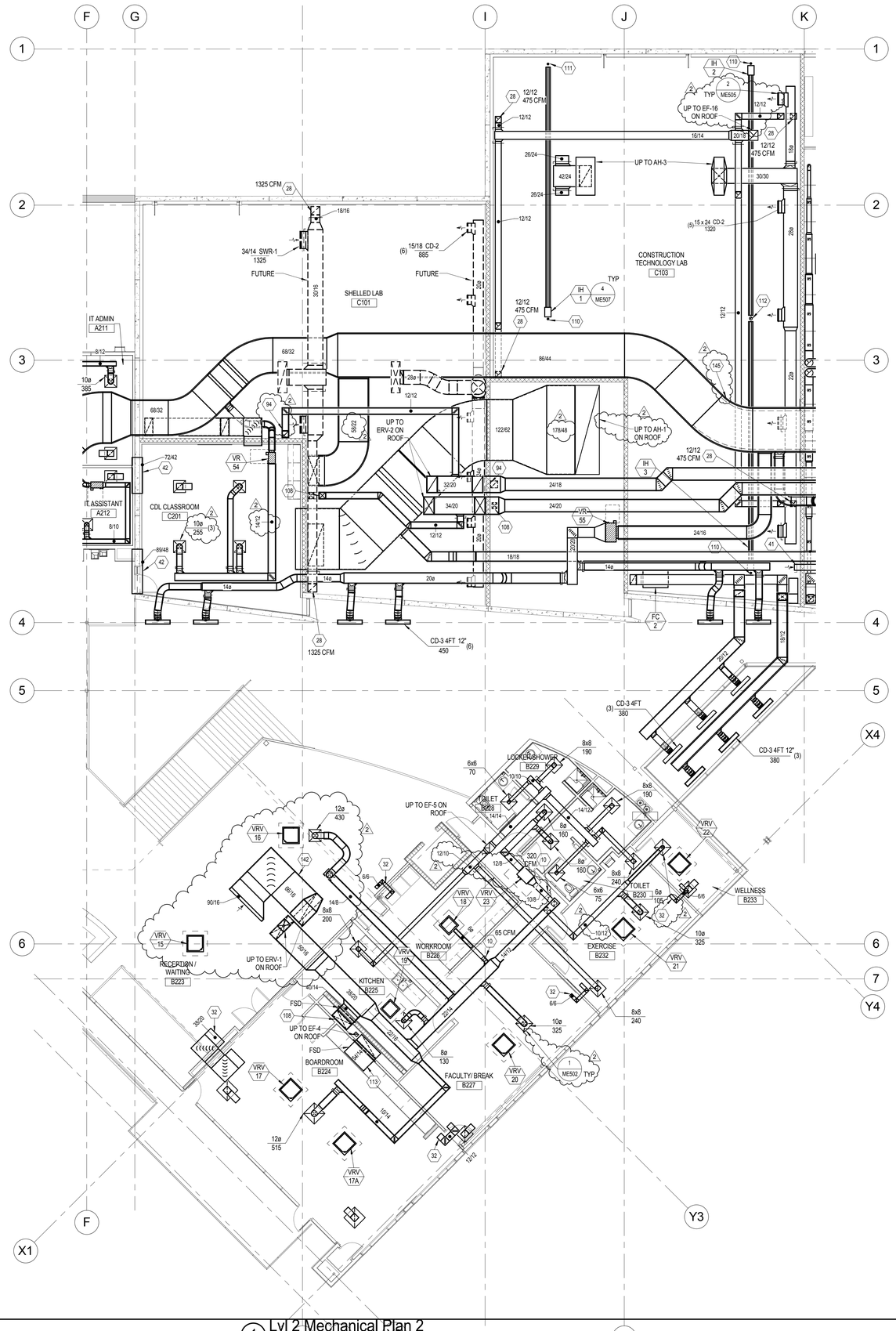


SHEET KEYNOTES

10 BALANCE VENTILATION TO AIRFLOW NOTED.

28 EXHAUST DUCT DOWN TO 12" AFF. DUCT SHALL BE OPEN ON THE BOTTOM WITH BIRD SCREEN INSTALLED. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

32 TRANSFER AIR SOUNDBOOT THROUGH WALL ABOVE CEILING. INSTALL PER DETAIL3/ME501. SIZE AS NOTED.

41 BALANCE TO 300 CFM.

42 RETURN AIR OPENING IN WALL ABOVE CEILING. SIZE AS NOTED.

94 EXHAUST DUCT DOWN. SEE LEVEL 1 FOR CONTINUATION.

108 SUPPLY DUCT DOWN. SEE LEVEL 1 MECHANICAL PLAN FOR CONTINUATION.

110 PROVIDE 4" DIA AIR INTAKE UP THROUGH ROOF FOR GAS FIRED RADIANT TUBE HEATER. PROVIDE GOOSENECK FITTING ABOVE ROOF.

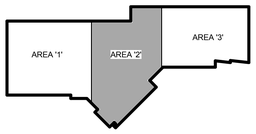
111 PROVIDE 4" DIA EXHAUST FLUE THROUGH ROOF FOR GAS FIRED RADIANT TUBE HEATER.

112 PROVIDE 6" DIA COMMON EXHAUST FLUE THROUGH ROOF FOR GAS FIRED RADIANT TUBE HEATERS.

113 TRANSFER AIR DUCT UP/DOWN IN SHAFT.

142 66X16 RETURN AIR SOUND BOOT. PROVIDE INTERNAL DUCT LINER FOR SOUND ATTENUATION.

145 PROVIDE DOUBLE WALL DUCT FOR THE FIRST 25 FEET OF SUPPLY DUCT.



LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
STATE OF UTAH

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925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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LEVEL 2 MECHANICAL PLAN 2

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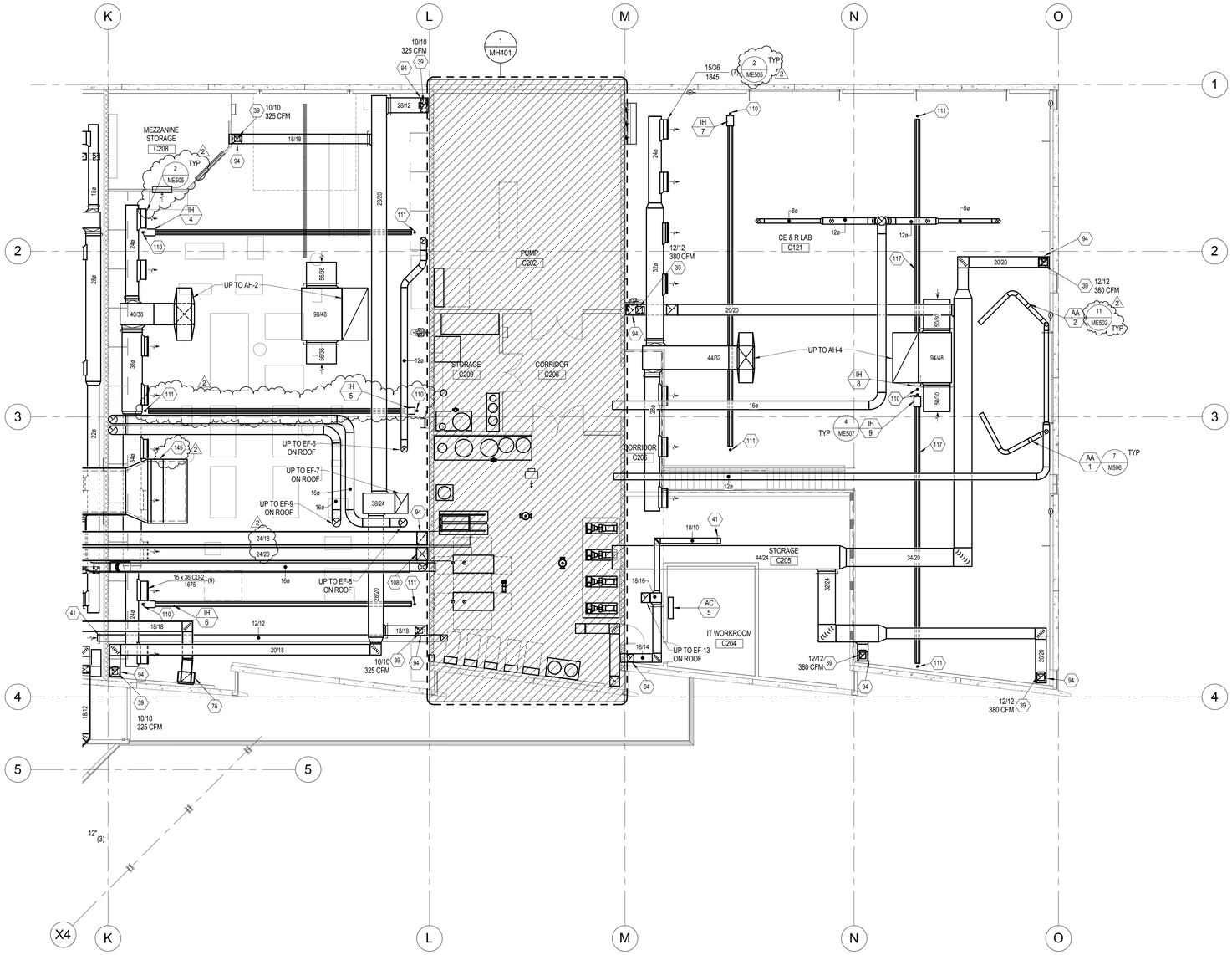
Lvl 2 Mechanical Plan 2
SCALE: 1/8" = 1'-0"



1 Lvl 2 Mechanical Plan 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

39 EXHAUST DUCT UP TO NEAR BOTTOM OF STRUCTURE. INSTALL BIRD SCREEN. PROVIDE BALANCING DAMPER AND BALANCE TO AIRFLOW NOTED.

41 BALANCE TO 300 CFM.

75 TRANSITION DOWN TO 30X18 DUCT TO ALLOW FOR INSTALLATION OF 28" WIDE RETURN AIR GRILLE.

94 EXHAUST DUCT DOWN. SEE LEVEL 1 FOR CONTINUATION.

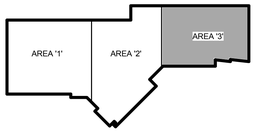
108 SUPPLY DUCT DOWN. SEE LEVEL 1 MECHANICAL PLAN FOR CONTINUATION.

110 PROVIDE 4" DIA AIR INTAKE UP THROUGH ROOF FOR GAS FIRED RADIANT TUBE HEATER. PROVIDE GOOSENECK FITTING ABOVE ROOF.

111 PROVIDE 4" DIA EXHAUST FLUE THROUGH ROOF FOR GAS FIRED RADIANT TUBE HEATER.

117 COORDINATE MOUNTING HEIGHT WITH CRANE. INSTALL REFLECTORS AND GUARDS OVER CRANE COMPONENTS AS REQUIRED.

145 PROVIDE DOUBLE WALL DUCT FOR THE FIRST 25 FEET OF SUPPLY DUCT.



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LEVEL 2 MECHANICAL PLAN 3

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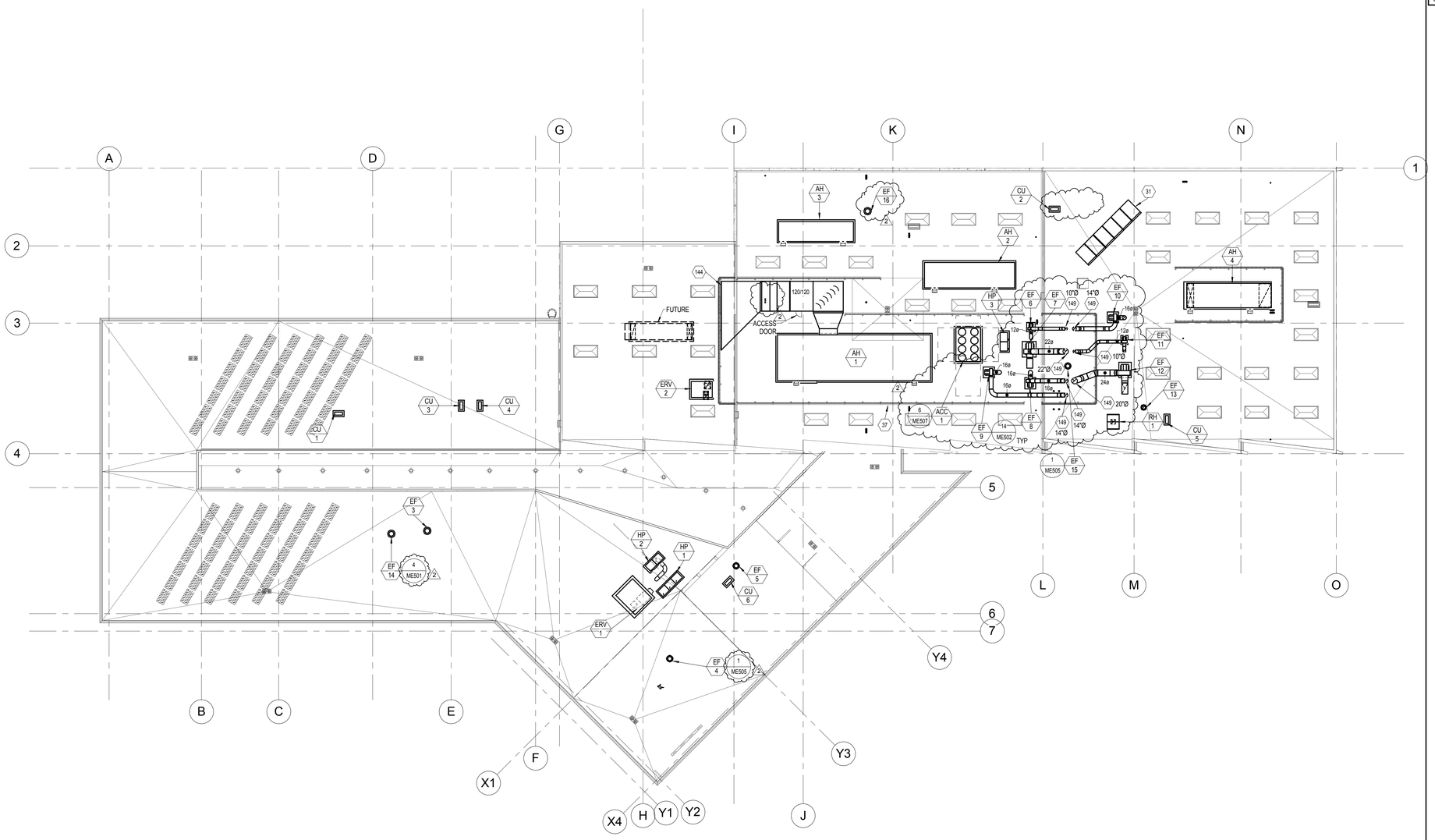

1 ROOF MECHANICAL PLAN
SCALE: 1/16" = 1'-0"

SHEET KEYNOTES

31 PHOENIX EVOLUTION SOLAR DOMESTIC HOT WATER HEATING KIT #2. MODEL #S8600-16. KIT COMPLETE WITH 3/4" LINE SET, PUMP STATION ASSEMBLY, PANEL CONNECTIONS, AUTO AIR VENTS, SHUT OFF AIR VENT VALVE, TEE FOR AUTO AIR VENT, SIX BRASS ADAPTERS TO 3/4" SOLAR FLEX LINE, TWO BRASS ADAPTERS 1" NPT X 1" BSP FOR CONNECTION OF 3/4" LINE SET TO TANK, 3/4" FLEXIBLE LINE CONNECTION KIT, UV INSULATED SOLAR FLEX PIPES WITH SENSOR WIRE, BS PULSE CONTROLLER FOR DUAL PUMP STATION, TACO CAST IRON PUMP 1" BSP 007-T7, SOLAR HI-TEMP ANTIFREEZE, 4.5 GALLON EXPANSION TANK, SOLAR CONTROL 2W1 PUMP SPEED TRIAC, 2 TEMP SENSORS, VBUS CONNECTION. CONNECT SOLAR HOT WATER HEATING SYSTEM TO PHOENIX PH130-805 STAINLESS STEEL TANK.

37 ARCHITECTURAL SCREEN WALL AROUND MECHANICAL ROOFTOP EQUIPMENT AS SHOWN. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.

144 TRANSITION TO 276X72 & EXTEND & CONNECT TO INTAKE LOUVER ON SCREENWALL. COORDINATE WITH SCREENWALL MANUFACTURER. 2

149 SHOP EXHAUST DUCT TO RUN EXPOSED ON THE ROOF AND THEN RISE UP IN SCREENWALL ENCLOSURE TO DISCHARGE 1 FT ABOVE SCREENWALL. EXHAUST DISCHARGE DUCT TO BE THE SAME SIZE AS INLET DUCT. VERTICAL SHAFT SHALL CONCENTRICALLY TAPER TO DIAMETER NOTED TO ACHIEVE 3000 FPM MINIMUM DISCHARGE VELOCITY. SEE DETAIL 14/ME502.

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ROOF MECHANICAL PLAN

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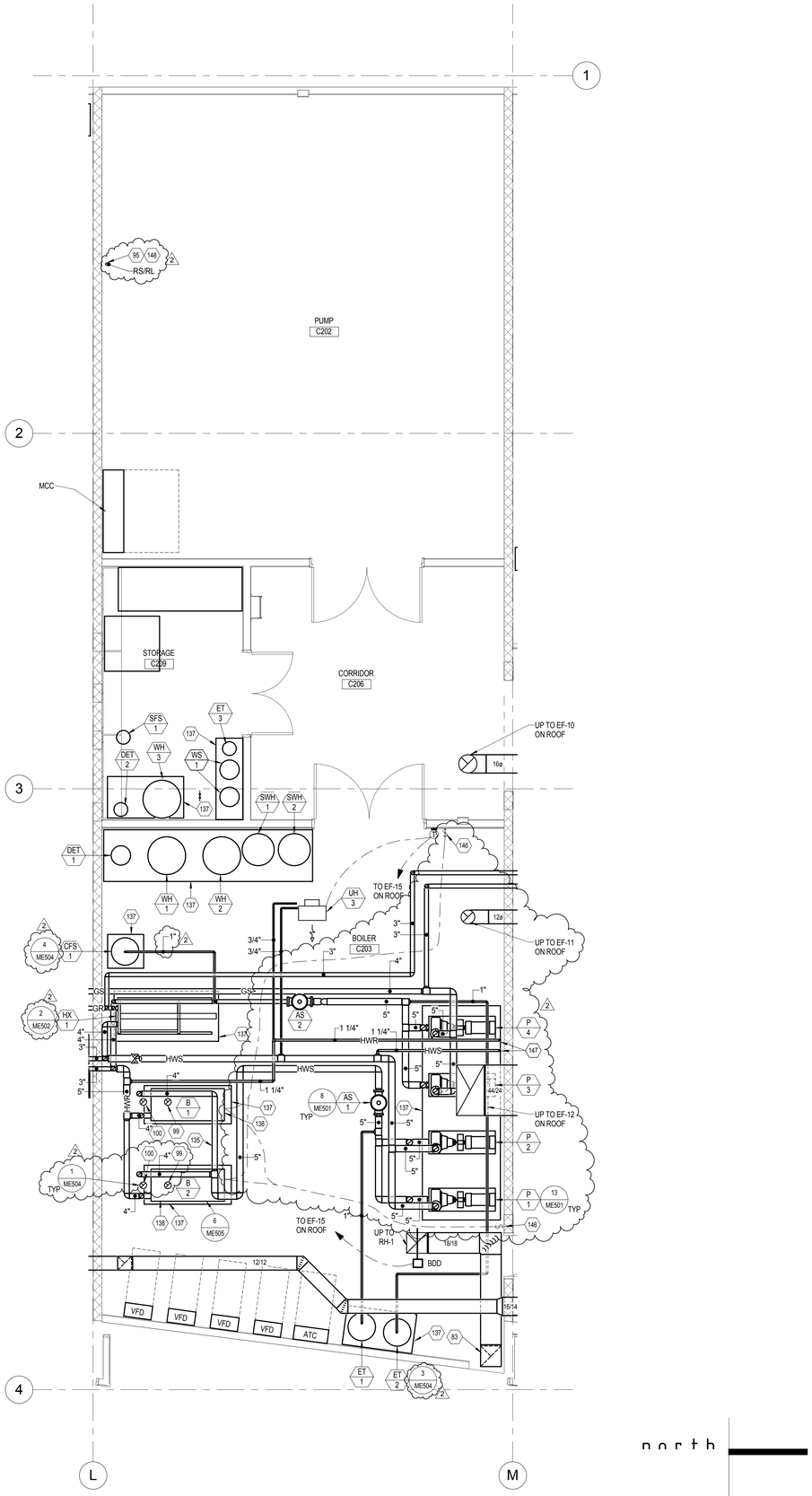

1 Mechanical Room Hvac/Piping Plan

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

SHEET KEYNOTES

83 MAKEUP AIR DUCT DOWN TO 12" AFF. DUCT SHALL BE OPEN ON THE BOTTOM WITH BIRD SCREEN INSTALLED.

95 REFRIGERANT LINES UP. SEE LEVEL 2 MECHANICAL PLAN FOR CONTINUATION. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

99 10" DIA COMBUSTION AIR PIPING INTAKE UP THROUGH ROOF. INSTALL GOOSENECK FITTING ABOVE ROOF. INLET SHALL TERMINATE NO LESS THAN 1'-0" ABOVE POTENTIAL SNOW ACCUMULATION LEVEL AND 3'-0" BELOW EXHAUST VENT.

100 10" DIA EXHAUST VENT PIPING. INSTALL AS FAR AS PRACTICALLY POSSIBLE FROM AIR INTAKE PIPE. VENT TERMINATION SHALL BE NO LESS THAN 5'-0" HORIZONTALLY AND 3'-0" HIGHER THAN THE INTAKE FROM EITHER BOILER. SLOPE VENT BACK TO BOILER NO LESS THAN 1/4" PER 1'-0" HORIZONTAL.

135 PROVIDE EQUAL DISTANCE PIPING ON BOTH BOILERS FOR BALANCING PURPOSES.

137 6" CONCRETE HOUSEKEEPING PAD.

138 MAINTAIN MINIMUM SERVICE CLEARANCES. CONSULT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

146 BOILER EMERGENCY SHUTDOWN BY ATC AT BOTH EXITS. COORDINATE NECESSARY CONTACTS & SHUT DOWN WITH ATC & BOILER MAUFACTURER.

147 HOT WATER SUPPLY AND RETURN DOWN. SEE LEVEL 1 MECHANICAL PIPING PLAN FOR CONTINUATION.

148 REFRIGERANT LINES DOWN. SEE LEVEL 1 MECHANICAL PLAN FOR CONTINUATION.

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LARGE SCALE MECHANICAL PLAN

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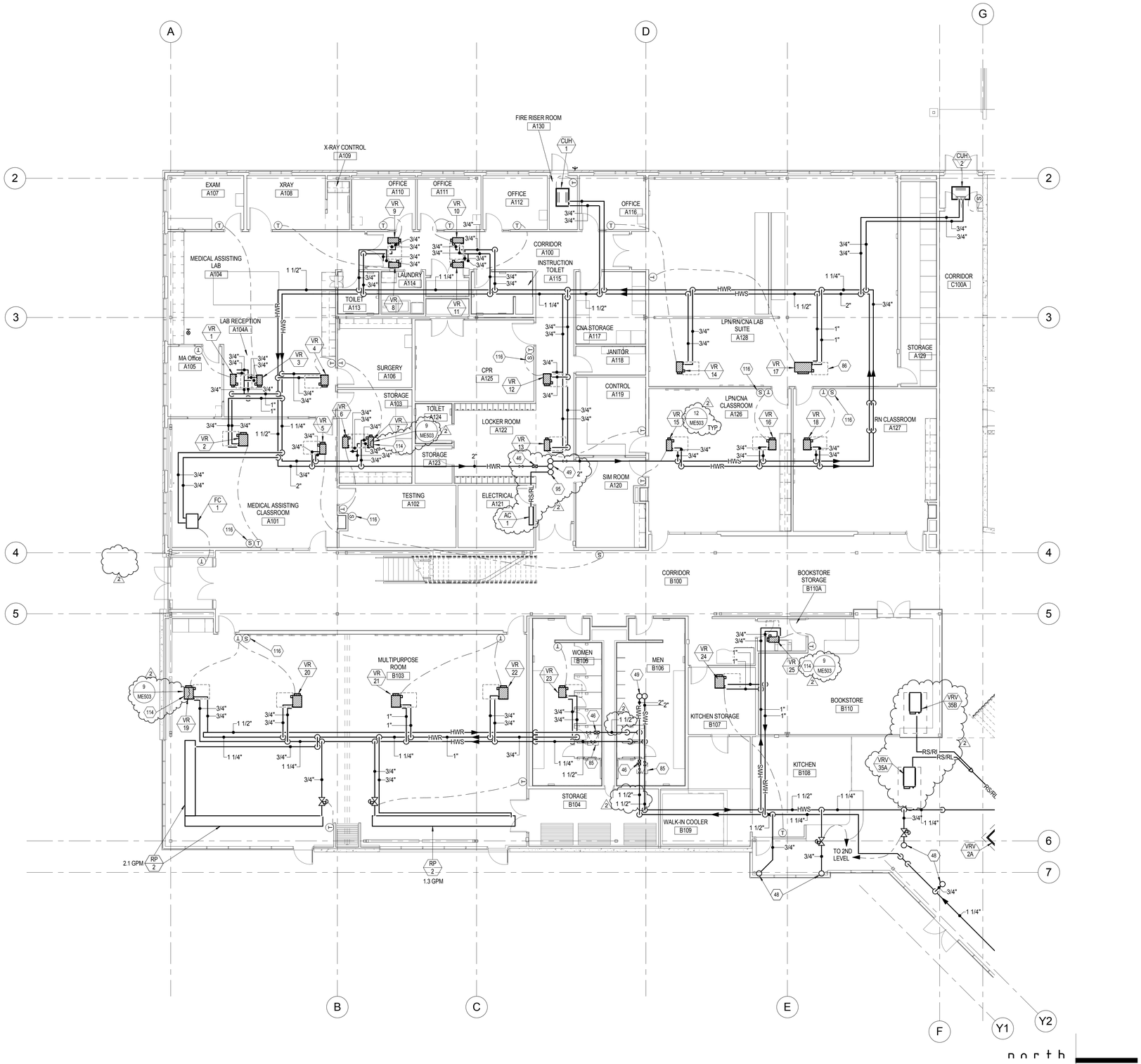


1 Lvl 1 Mechanical Piping Plan 1
SCALE: 1/8" = 1'-0"

MP111 GENERAL SHEET NOTES

1 PROVIDE FLEXIBLE EXPANSION JOINTS ON ALL DUCTWORK, PIPING FIRE SPRINKLING, PLUMBING ETC. WHERE ANY SYSTEM CROSSES THE BUILDING EXPANSION JOINT. SEE ARCHITECTURAL PLAN FOR LOCATION OF BUILDING EXPANSION JOINT.

2 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

3 PROVIDE ACCESS TO ALL VALVES AND DAMPERS LOCATED ABOVE CEILINGS.

4 LOCATE AIR VENTS AT ALL DOWNTURNS IN PIPING ELEVATION. INSTALL IN ACCESSIBLE LOCATION.

5 ALL PIPING IN SHAFTS SHALL BE WELDED OR BRAZED.

6 COORDINATE ALL PLUMBING PIPING, DUCTWORK, EQUIPMENT, CLEARANCE/ACCESS AND ALLOTHER APPURTENANCES WITH FIRE SPRINKLING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND ALL OTHER TRADES. COORDINATION SHALL BE MADE ON 1/4 SCALE COORDINATION SHOP DRAWINGS AS DETAILED IN THE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO ENGINEER, ANY CONFLICTS NOT SPECIFICALLY NOTED ON THE COORDINATION DRAWINGS SHALL BE RESOLVED AT THE CONTRACTORS EXPENSE.

SHEET KEYNOTES

46 PROVIDE ISOLATION VALVE AND CIRCUIT SETTER AS SHOWN. BALANCE CIRCUIT SETTER TO SUM OF FLOWS FOR DOWNSTREAM EQUIPMENT. SEE MECHANICAL SCHEDULES FOR FLOW RATES.

48 3/4" HWS AND HWR PIPING UP TO RADIANT PANEL ON LEVEL 2 ABOVE.

49 HOT WATER SUPPLY AND RETURN UP. SEE LEVEL 2 MECHANICAL PIPING PLAN FOR CONTINUATION.

85 PROVIDE 24" X 24" CEILING ACCESS PANEL. COORDINATE LOCATION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND LOCATION OF MECHANICAL EQUIPMENT.

86 MAINTAIN MINIMUM SERVICE CLEARANCES AS SHOWN. TYPICAL.

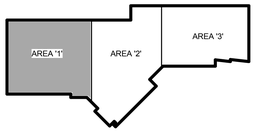
95 REFRIGERANT LINES UP. SEE LEVEL 2 MECHANICAL PLAN FOR CONTINUATION. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

114 PROVIDE 3-WAY VALVE.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

GENERAL VRV NOTES

1 VRV REFRIGERANT LINES SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. BRANCH PIPING MUST BE SIZED TO ENSURE EQUAL PRESSURE DROP AND FLOW. HIGH EFFICIENCY REFRIGERANT FITTINGS (REFNET) MUST BE USED - NO TEES ARE ALLOWED IN REFRIGERANT PIPING.



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LEVEL 1 MECHANICAL PIPING PLAN 1

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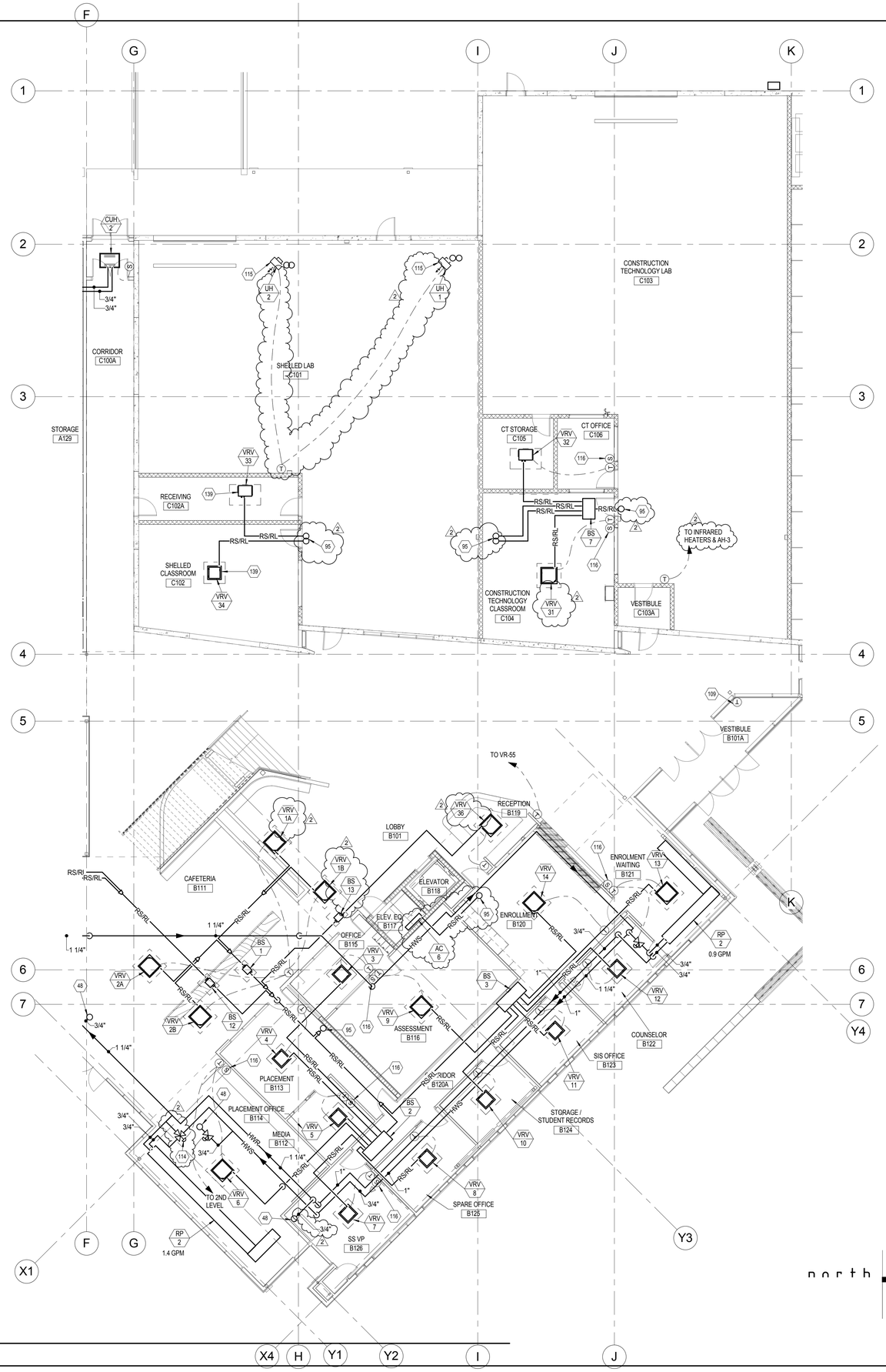

1 Lvl 1 Mechanical Piping Plan 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

48 3/4" HWS AND HWR PIPING UP TO RADIANT PANEL ON LEVEL 2 ABOVE.

95 REFRIGERANT LINES UP. SEE LEVEL 2 MECHANICAL PLAN FOR CONTINUATION. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

109 PROVIDE WIRELESS THERMOSTAT TO CONTROL FAN COIL FC-2.

114 PROVIDE 3-WAY VALVE.

115 MOUNT HOT WATER UNIT HEATER AT 12 FT AFF.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

139 EQUIPMENT IS LOCATED IN SHELLED SPACE AND IS SHOWN FOR SYSTEM SIZING AND INFORMATIONAL PURPOSES ONLY. NOT INCLUDED IN CONTRACT.

MP112 GENERAL SHEET NOTES

1 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

2 PROVIDE ACCESS TO ALL VALVES AND DAMPERS LOCATED ABOVE CEILINGS.

3 LOCATE AIR VENTS AT ALL DOWNTURNS IN PIPING ELEVATION. INSTALL IN ACCESSIBLE LOCATION.

4 ALL PIPING IN SHAFT SHALL BE WELDED OR BRAZED.

5 COORDINATE ALL PLUMBING PIPING, DUCTWORK, EQUIPMENT, CLEARANCE/ACCESS AND ALLOTHER APPURTENANCES WITH FIRE SPRINKLING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND ALL OTHER TRADES. COORDINATION SHALL BE MADE ON 1/4 SCALE COORDINATION SHOP DRAWINGS AS DETAILED IN THE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO ENGINEER. ANY CONFLICTS NOT SPECIFICALLY NOTED ON THE COORDINATION DRAWINGS SHALL BE RESOLVED AT THE CONTRACTORS EXPENSE.

GENERAL VRV NOTES

1 VRV REFRIGERANT LINES SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. BRANCH PIPING MUST BE SIZED TO ENSURE EQUAL PRESSURE DROP AND FLOW. HIGH EFFICIENCY REFRIGERANT FITTINGS (REFNET) MUST BE USED - NO TEES ARE ALLOWED IN REFRIGERANT PIPING.

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LEVEL 1 MECHANICAL PIPING PLAN 2

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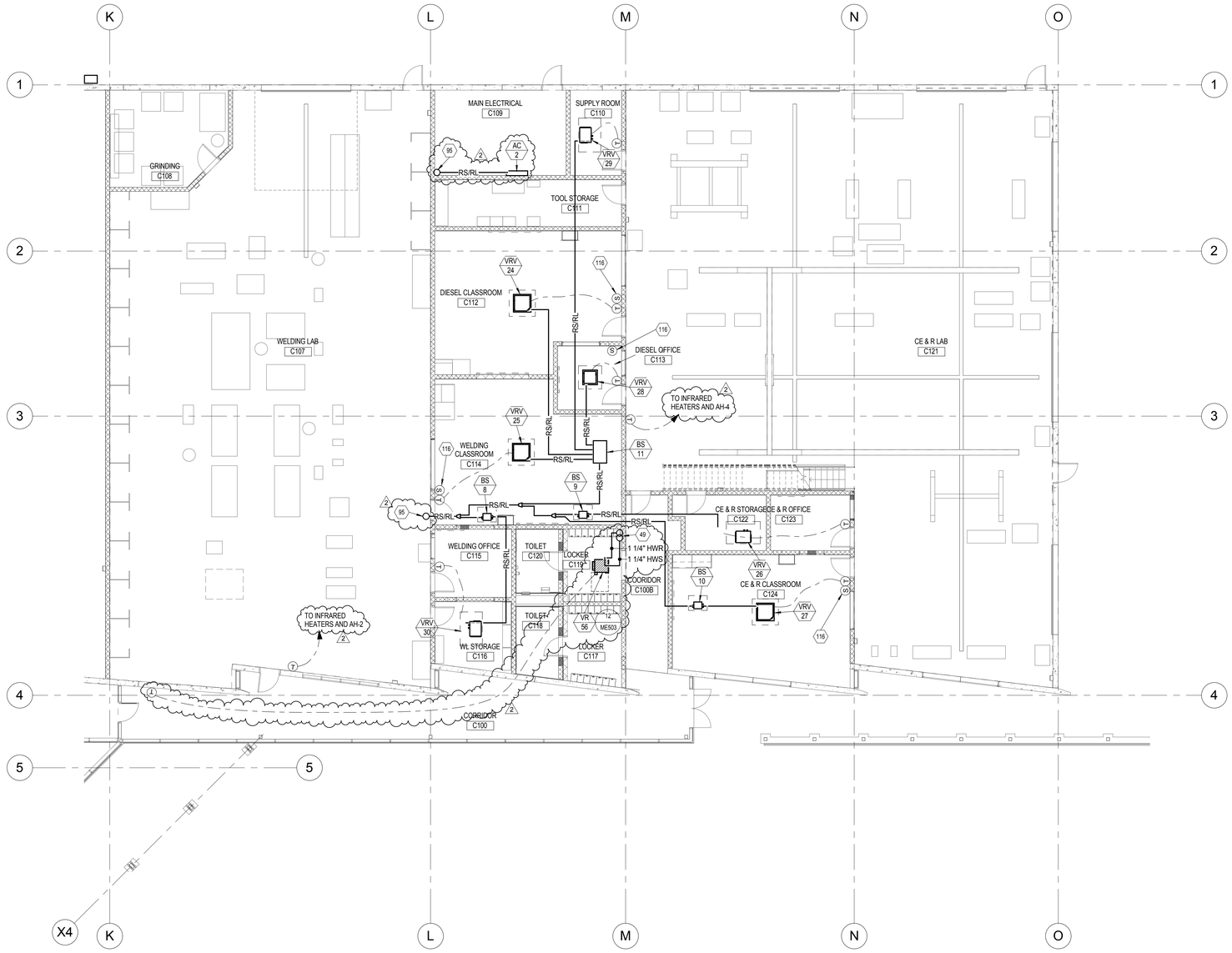

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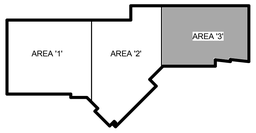

1 Lvl 1 Mechanical Piping Plan 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

49 HOT WATER SUPPLY AND RETURN UP. SEE LEVEL 2 MECHANICAL PIPING PLAN FOR CONTINUATION.

95 REFRIGERANT LINES UP. SEE LEVEL 2 MECHANICAL PLAN FOR CONTINUATION. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

MP113 GENERAL SHEET NOTES

1 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

2 PROVIDE ACCESS TO ALL VALVES AND DAMPERS LOCATED ABOVE CEILINGS.

3 LOCATE AIR VENTS AT ALL DOWNTURNS IN PIPING ELEVATION. INSTALL IN ACCESSIBLE LOCATION.

4 ALL PIPING IN SHAFTS SHALL BE WELDED OR BRAZED.

5 COORDINATE ALL PLUMBING PIPING, DUCTWORK, EQUIPMENT, CLEARANCE/ACCESS AND ALLOTHER APPURTENANCES WITH FIRE SPRINKLING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND ALL OTHER TRADES. COORDINATION SHALL BE MADE ON 1/4 SCALE COORDINATION SHOP DRAWINGS AS DETAILED IN THE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO ENGINEER. ANY CONFLICTS NOT SPECIFICALLY NOTED ON THE COORDINATION DRAWINGS SHALL BE RESOLVED AT THE CONTRACTORS EXPENSE.

GENERAL VRV NOTES

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LEVEL 1 MECHANICAL PIPING PLAN 3

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MP113

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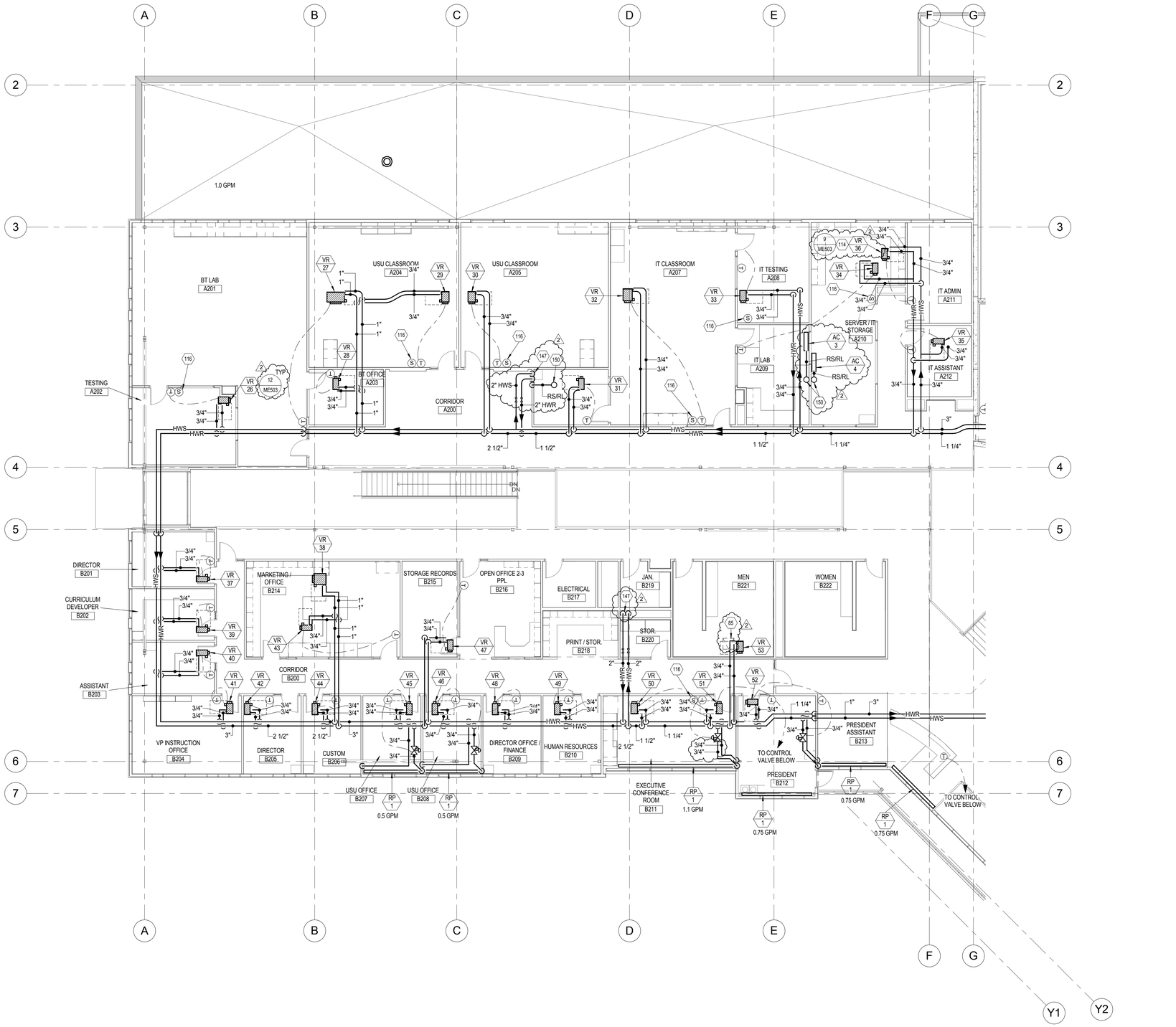

1 Lvl 2 Mechanical Piping Plan 1
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

85 PROVIDE 24" X 24" CEILING ACCESS PANEL. COORDINATE LOCATION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND LOCATION OF MECHANICAL EQUIPMENT.

114 PROVIDE 3-WAY VALVE.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

147 HOT WATER SUPPLY AND RETURN DOWN. SEE LEVEL 1 MECHANICAL PIPING PLAN FOR CONTINUATION.

150 REFRIGERANT LINES UP TO ROOFTOP CONDENSING UNIT. SEE ROOF MECHANICAL PLAN FOR CONTINUATION. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

MP121 GENERAL SHEET NOTES

1 PROVIDE FLEXIBLE EXPANSION JOINTS ON ALL DUCTWORK, PIPING FIRE SPRINKLING, PLUMBING ETC. WHERE ANY SYSTEM CROSSES THE BUILDING EXPANSION JOINT. SEE ARCHITECTURAL PLAN FOR LOCATION OF BUILDING EXPANSION JOINT.

2 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

3 PROVIDE ACCESS TO ALL VALVES AND DAMPERS LOCATED ABOVE CEILINGS.

4 LOCATE AIR VENTS AT ALL DOWNTURNS IN PIPING ELEVATION. INSTALL IN ACCESSIBLE LOCATION.

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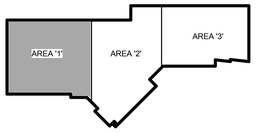
GENERAL VRV NOTES

1 VRV REFRIGERANT LINES SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. BRANCH PIPING MUST BE SIZED TO ENSURE EQUAL PRESSURE DROP AND FLOW. HIGH EFFICIENCY REFRIGERANT FITTINGS (REFNET) MUST BE USED - NO TEES ARE ALLOWED IN REFRIGERANT PIPING.



LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
STATE OF UTAH

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
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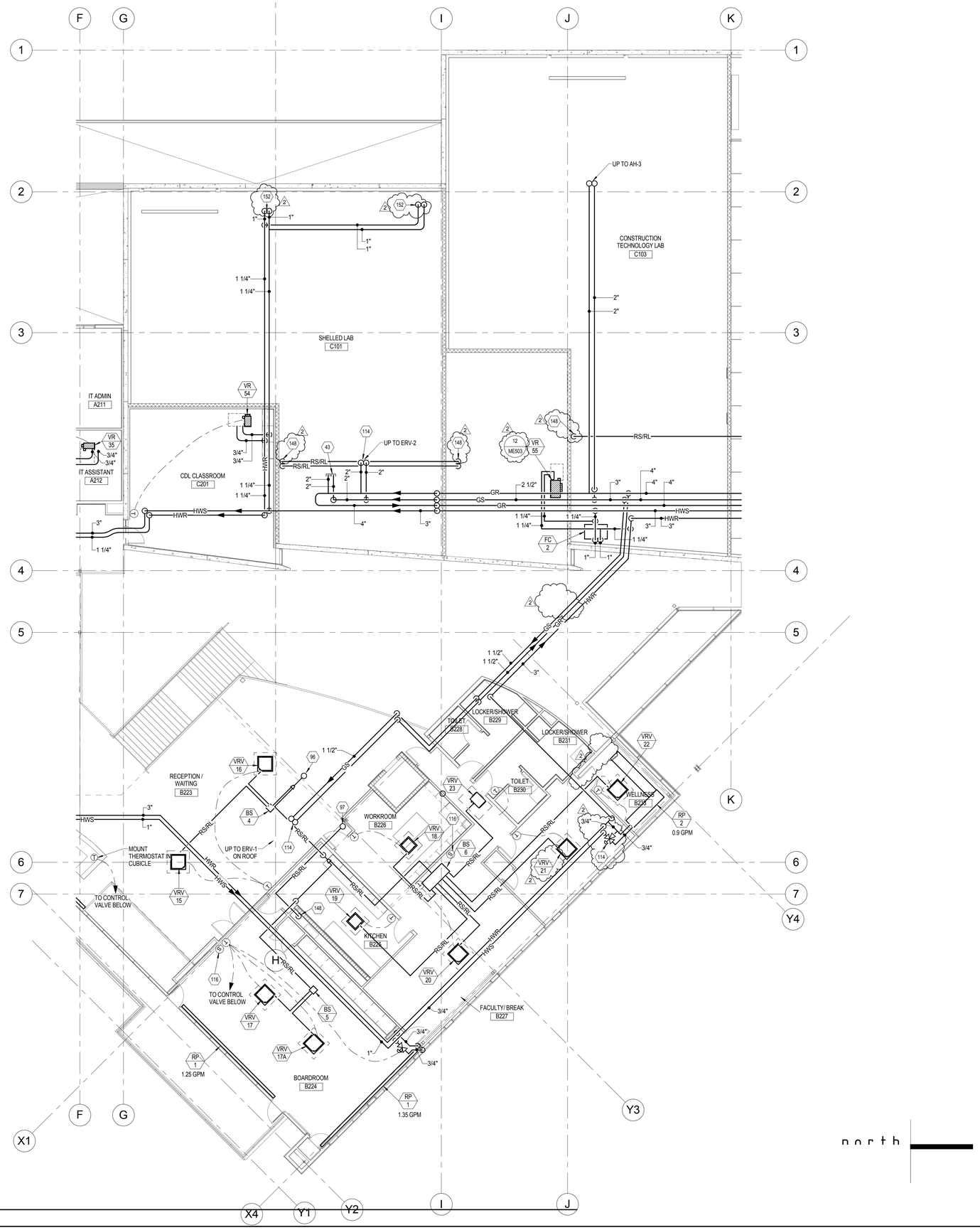
revisions :
2 Addendum 2 2-10-2012

LEVEL 2 MECHANICAL PIPING PLAN 1

sheet:
MP121

100% Construction Documents



1 Lvl 2 Mechanical Piping Plan 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

43 CAPPED FOR FUTURE EXPANSION.

96 UP TO HP-2 ON ROOF.

97 UP TO HP-1 ON ROOF.

114 PROVIDE 3-WAY VALVE.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

148 REFRIGERANT LINES DOWN. SEE LEVEL 1 MECHANICAL PLAN FOR CONTINUATION.

152 PIPING DOWN TO UNIT HEATER BELOW. SEE LEVEL 1 PLAN FOR CONTINUATION.

MP122 GENERAL SHEET NOTES

1 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

2 PROVIDE ACCESS TO ALL VALVES AND DAMPERS LOCATED ABOVE CEILINGS.

3 LOCATE AIR VENTS AT ALL DOWNTURNS IN PIPING ELEVATION. INSTALL IN ACCESSIBLE LOCATION.

4 ALL PIPING IN SHAFT SHALL BE WELDED OR BRAZED.

5 COORDINATE ALL PLUMBING PIPING, DUCTWORK, EQUIPMENT, CLEARANCE/ACCESS AND ALLOTHER APPURTENANCES WITH FIRE SPRINKLING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND ALL OTHER TRADES. COORDINATION SHALL BE MADE ON 1/4 SCALE COORDINATION SHOP DRAWINGS AS DETAILED IN THE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO ENGINEER. ANY CONFLICTS NOT SPECIFICALLY NOTED ON THE COORDINATION DRAWINGS SHALL BE RESOLVED AT THE CONTRACTORS EXPENSE.

GENERAL VRV NOTES

1 VRV REFRIGERANT LINES SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. BRANCH PIPING MUST BE SIZED TO ENSURE EQUAL PRESSURE DROP AND FLOW. HIGH EFFICIENCY REFRIGERANT FITTINGS (REFNET) MUST BE USED - NO TEES ARE ALLOWED IN REFRIGERANT PIPING.

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LEVEL 2 MECHANICAL PIPING PLAN 2

sheet:
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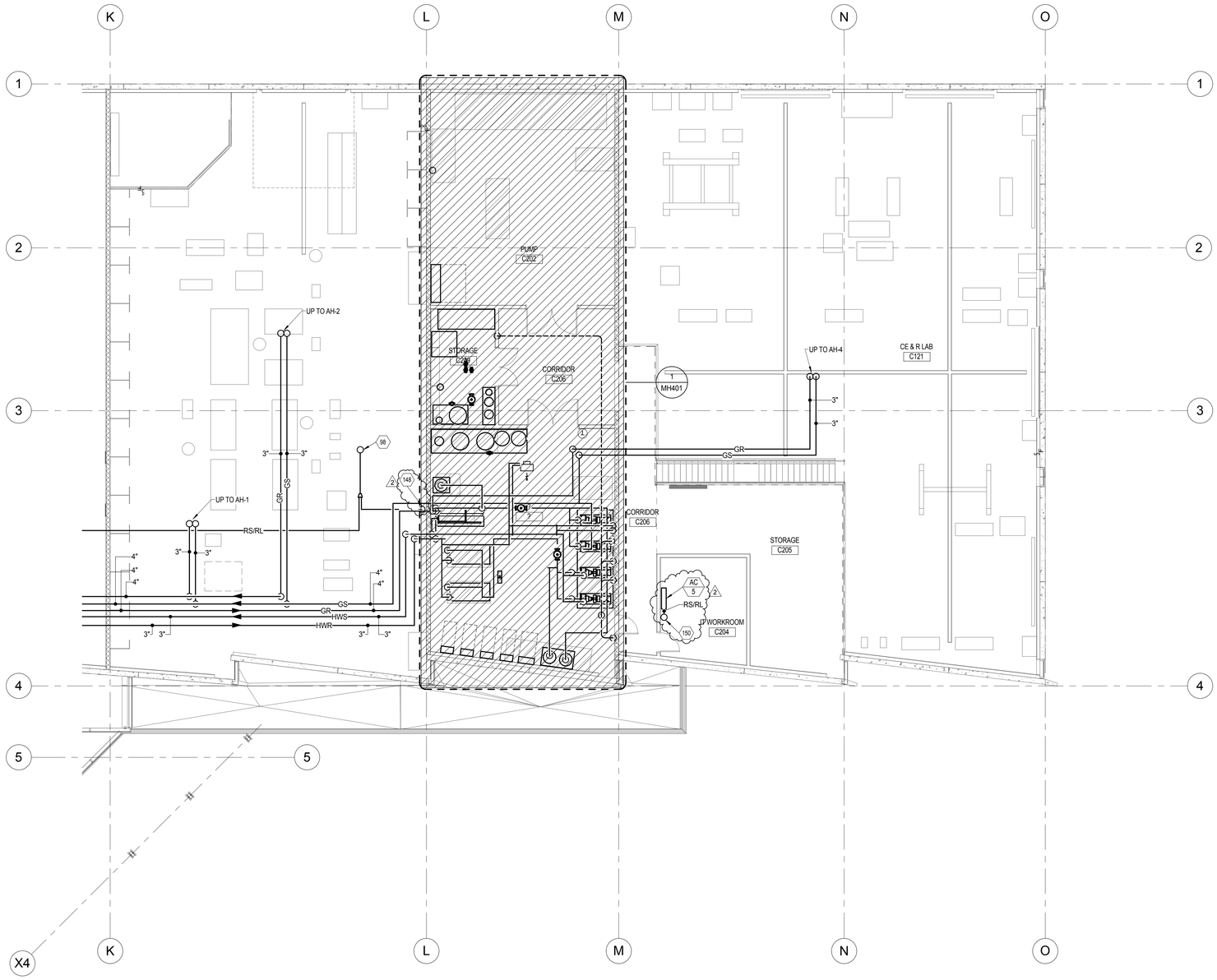
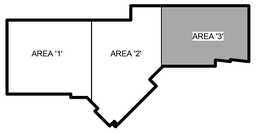


north



1 Lvl 2 Mechanical Piping Plan 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

98 UP TO HP-3 ON ROOF.

148 REFRIGERANT LINES DOWN. SEE LEVEL 1 MECHANICAL PLAN FOR CONTINUATION.

150 REFRIGERANT LINES UP TO ROOFTOP CONDENSING UNIT. SEE ROOF MECHANICAL PLAN FOR CONTINUATION. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

MP123 GENERAL SHEET NOTES

1 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

2 PROVIDE ACCESS TO ALL VALVES AND DAMPERS LOCATED ABOVE CEILINGS.

3 LOCATE AIR VENTS AT ALL DOWNTURNS IN PIPING ELEVATION. INSTALL IN ACCESSIBLE LOCATION.

4 ALL PIPING IN SHAFT SHALL BE WELDED OR BRAZED.

5 COORDINATE ALL PLUMBING PIPING, DUCTWORK, EQUIPMENT, CLEARANCE/ACCESS AND ALLOTHER APPURTENANCES WITH FIRE SPRINKLING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND ALL OTHER TRADES. COORDINATION SHALL BE MADE ON 1/4 SCALE COORDINATION SHOP DRAWINGS AS DETAILED IN THE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO ENGINEER. ANY CONFLICTS NOT SPECIFICALLY NOTED ON THE COORDINATION DRAWINGS SHALL BE RESOLVED AT THE CONTRACTORS EXPENSE.

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LEVEL 2 MECHANICAL PIPING PLAN 3

sheet:
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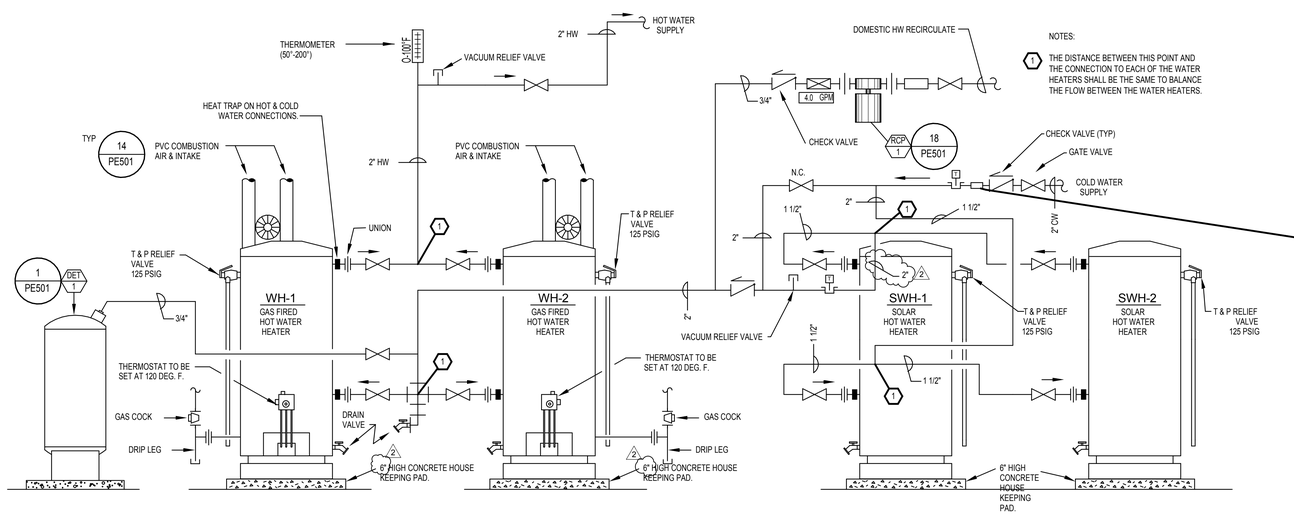
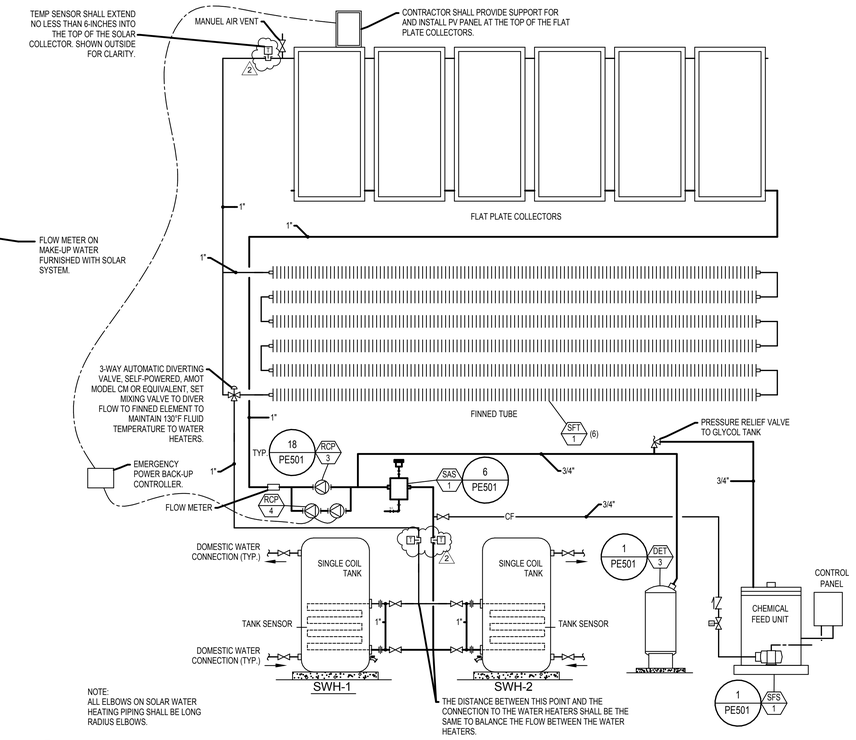
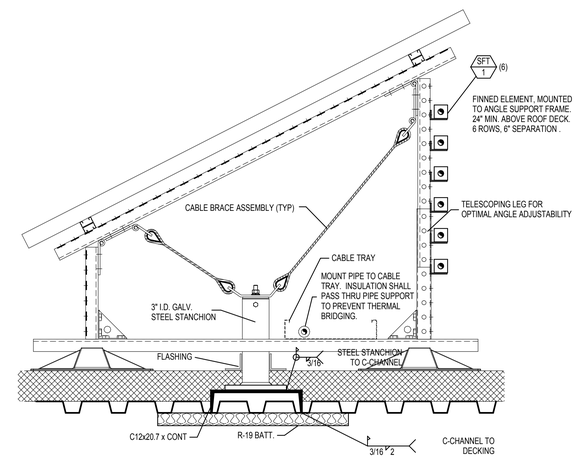


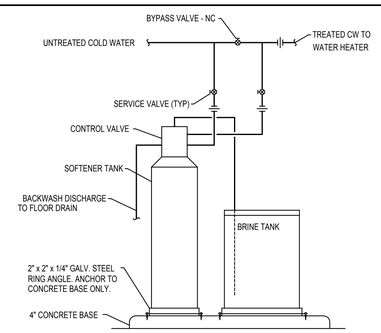
1 PE502 WATER HEATER PIPING DIAGRAM (WATER SIDE)
NO SCALE



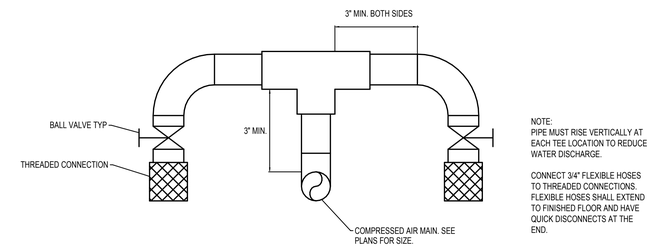
7 PE502 SOLAR DOMESTIC HOT WATER SYSTEM
NO SCALE



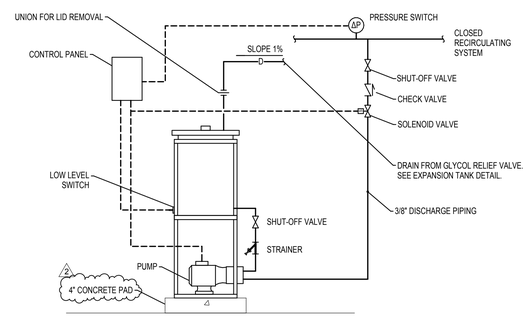
2 PE502 SOLAR PANEL SUPPORT DETAIL
NO SCALE



4 PE502 WATER SOFTENER DETAIL
NO SCALE



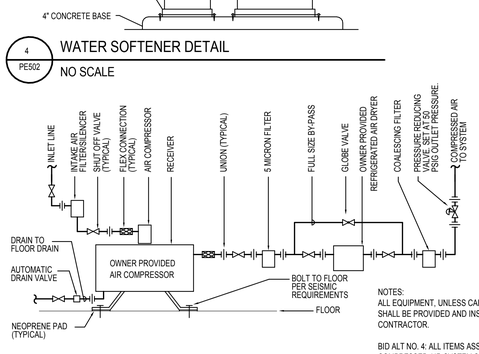
8 PE502 SIMPLEX AIR COMPRESSOR PIPING SCHEMATIC
NO SCALE



NOTES:

1. CONTROL PANEL IS MOUNTED ON TANK SUPPORT STAND.
2. PUMP CAPACITY IS 1.3 GPM AT 100 PSIG, 1/3 HP.
3. ALL WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
4. GLYCOL FEED SYSTEM INCLUDES 50 GAL CLEAR POLYETHYLENE TANK. STEEL SUPPORT STAND, PUMP, LOW LEVEL SWITCH, STRAINER, SHUT-OFF VALVE, CONTROL PANEL, SOLENOID VALVE AND PRESSURE SWITCH.
5. SEE EXPANSION TANK SCHEDULE FOR FILL PRESSURE.

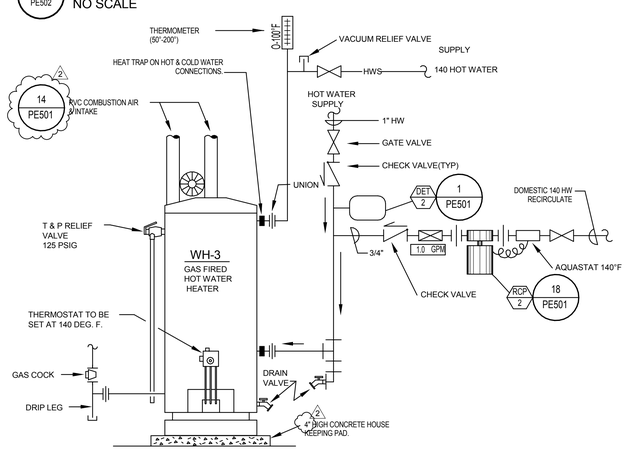
3 PE502 PACKAGED GLYCOL FEED SYSTEM
NO SCALE



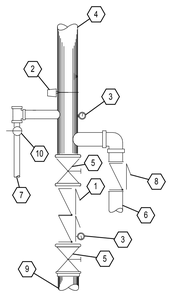
NOTES:
ALL EQUIPMENT, UNLESS CALLED OUT OTHERWISE, SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.

BID ALT NO. 4: ALL ITEMS ASSOCIATED WITH THE COMPRESSED AIR SYSTEM SHALL BE BID AS AN ALTERNATE.

5 PE502 SIMPLEX AIR COMPRESSOR PIPING SCHEMATIC
NO SCALE

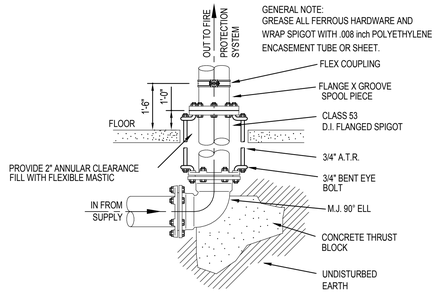


6 PE502 WATER HEATER PIPING DIAGRAM
NO SCALE



1. DOUBLE CHECK VALVE ASSEMBLY
2. FLOW SWITCH TO HORN STROBE ALARM, WIRING BY DIVISION 26.
3. WATER PRESSURE GAGE
4. TO WET SYSTEM.
5. CONTROL VALVE WITH TAMPER SWITCH, WIRING BY DIVISION 26.
6. TO FIRE DEPARTMENT CONNECTION.
7. MAIN DRAIN PIPED TO EXTERIOR.
8. CHECK VALVE
9. FIRE LINE FROM SUPPLY. PROVIDE GALVANIZED PIPING UP TO VALVE ASSEMBLY. PROVIDE RESTRAINTS, FLEXIBLE COUPLINGS, AND ANNULAR CLEARANCE AS REQUIRED BY NFPA.
10. MAINTENANCE VALVE

9 PE502 FIRE SPRINKLER RISER DETAIL
NO SCALE



10 PE502 FLANGE SPIGOT DETAIL
NO SCALE

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No. 275661
RAYMOND D. VERNON
STATE OF UTAH

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925 south west temple
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PLUMBING DETAILS

sheet:
PE502

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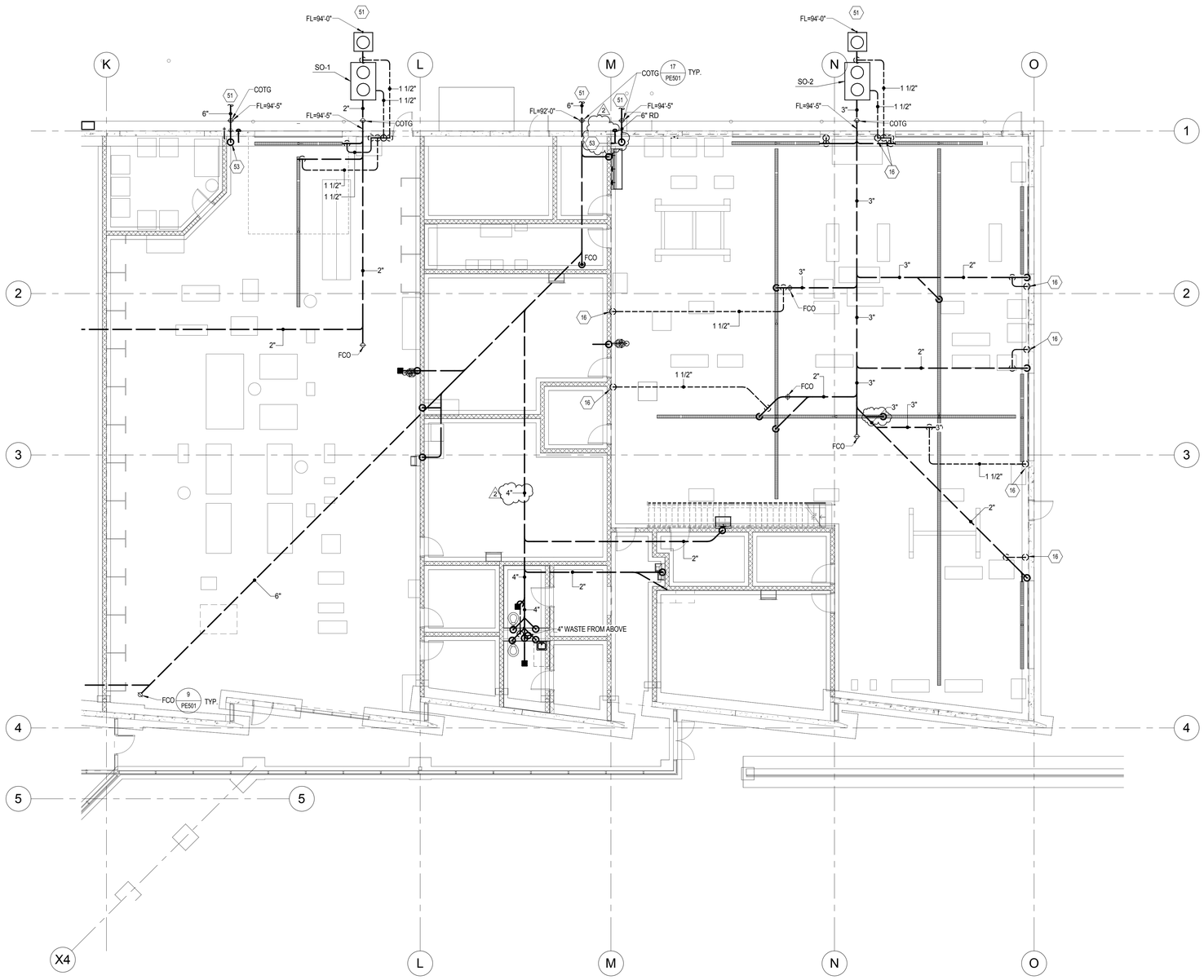


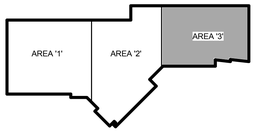
1 BELOW GRADE PLUMBING PLAN 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

16 VENT LINE UP.

51 SEE CIVIL PLANS FOR CONTINUATION.

53 ROOF DRAIN PIPING FROM ABOVE.



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BELOW GRADE PLUMBING PLAN 3

sheet:
PL103

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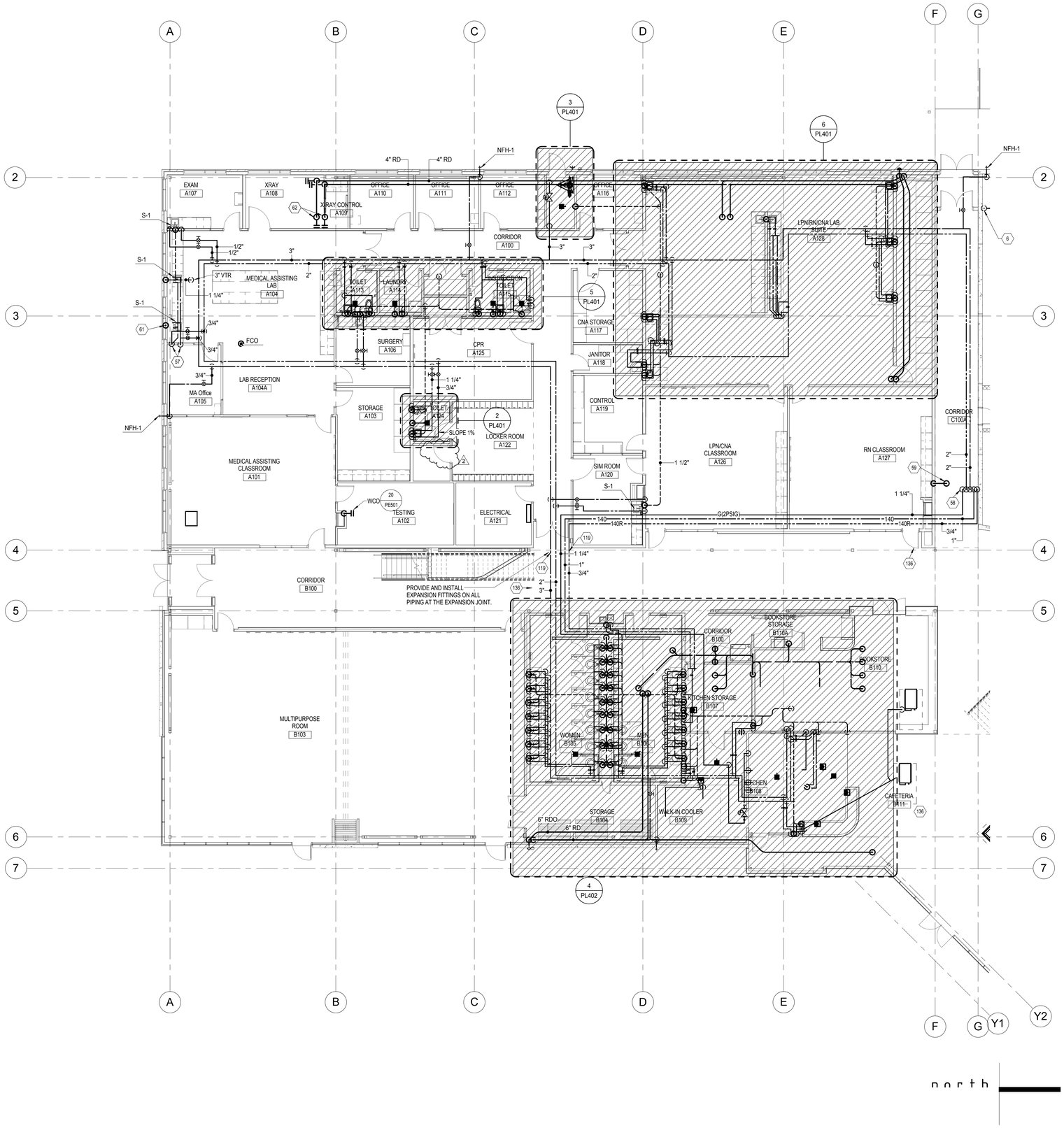


1 Lvl 1 Plumbing Plan 1
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

6 1 1/2" VENT UP AND DOWN.

57 DROP DOMESTIC HOT AND COLD WATER PIPING DOWN IN WALL AND EXTEND TO FIXTURES IN CABINET SPACES.

58 DOMESTIC HOT, COLD, 140 AND 140 RECIRCULATION PIPING AND GAS PIPING UP. SEE SHEET PL121 FOR CONTINUATION.

59 1-1/2" WASTE LINE FROM ABOVE. 2" WASTE BELOW GRADE.

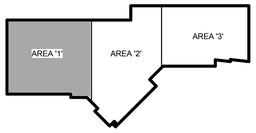
61 PROVIDE AND INSTALL AIR ADMITTANCE VALVE PER IPC 2009.

62 TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.

119 PROVIDE AND INSTALL EXPANSION FITTINGS ON ALL PIPING AT THE EXPANSION JOINT.

120 DROP ¾" CONDENSATE DRAIN LINE DOWN TO FLOOR NEXT TO TRENCH DRAIN.

136 PROVIDE CONCEALED TYPE FIRE SPRINKLER HEADS IN ALL MAIN ENTRY, LOBBY, COORIDOR & PUBLIC AREAS WITH CEILING. TYPICAL.



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LEVEL 1 PLUMBING PLAN 1

sheet:
PL111

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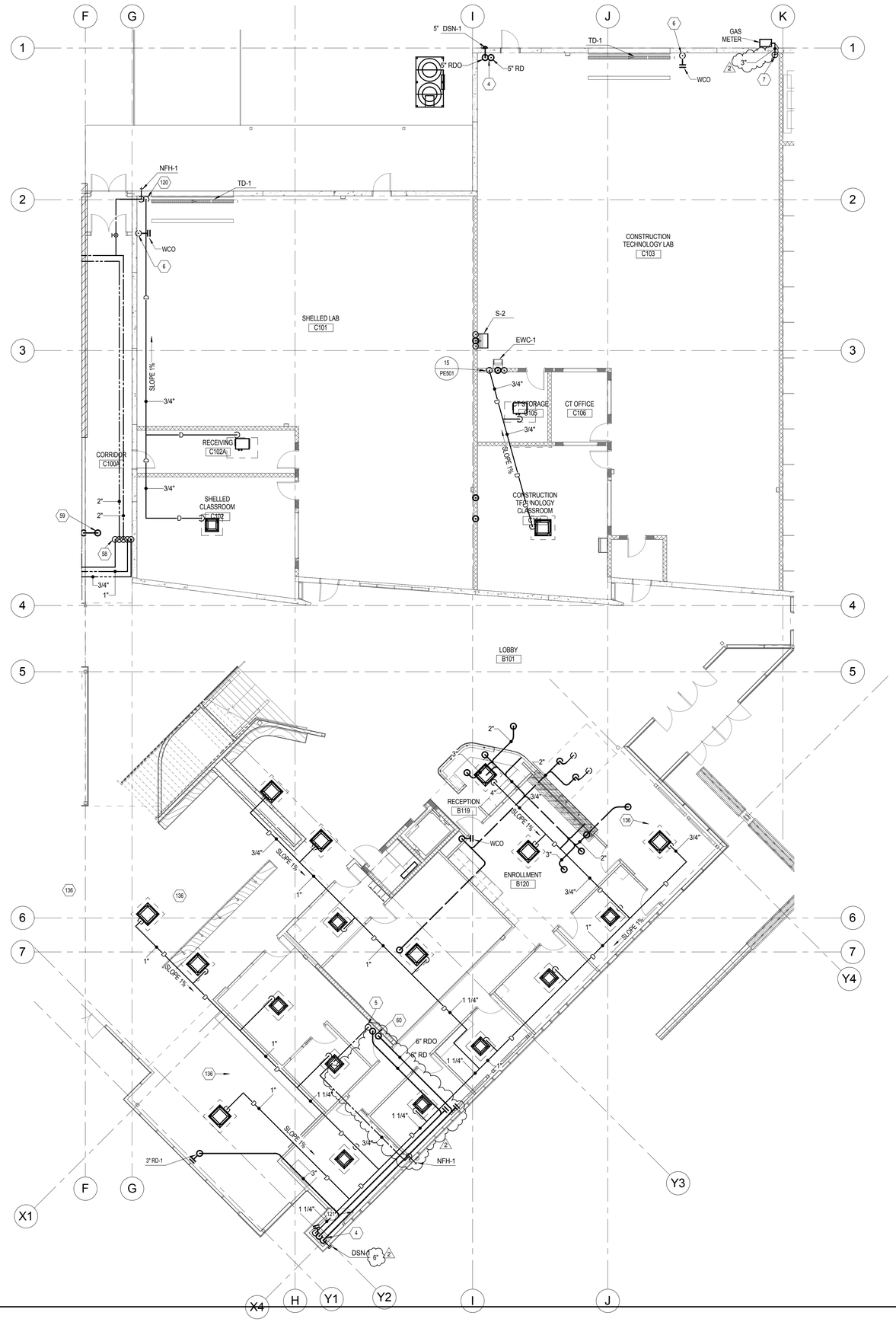

1 Lvl 1 Plumbing Plan 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

4 ROOF DRAIN PIPING UP AND DOWN. ROOF DRAIN OVERFLOW PIPING TO DOWNSPOUT NOZZLE.

5 3/4" COLD WATER LINE FROM ABOVE.

6 1 1/2" VENT UP AND DOWN.

7 GAS LINE UP.

58 DOMESTIC HOT, COLD, 140 AND 140 RECIRCULATION PIPING AND GAS PIPING UP. SEE SHEET PL121 FOR CONTINUATION.

59 1-1/2" WASTE LINE FROM ABOVE. 2" WASTE BELOW GRADE.

60 ROOF DRAIN AND ROOF DRAIN OVERFLOW FROM ABOVE.

120 DROP ¾" CONDENSATE DRAIN LINE DOWN TO FLOOR NEXT TO TRENCH DRAIN.

121 CONNECT 1 ¼" CONDENSATE PIPING FROM ABOVE TO 1 ¼" CONDENSATE FROM THIS LEVEL AND TRANSITION TO 1 ½" DROP DOWN AND CONNECT TO RAIN WATER PIPING. DROP 1 ½" CONDENSATE DRAIN DOWN SHAFT AND CONNECT TO RAIN WATER PIPING 8'-0" ABOVE FINISHED FLOOR.

136 PROVIDE CONCEALED TYPE FIRE SPRINKLER HEADS IN ALL MAIN ENTRY, LOBBY, COORIDOR & PUBLIC AREAS WITH CEILING. TYPICAL.

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LEVEL 1 PLUMBING PLAN 2

sheet:
PL112

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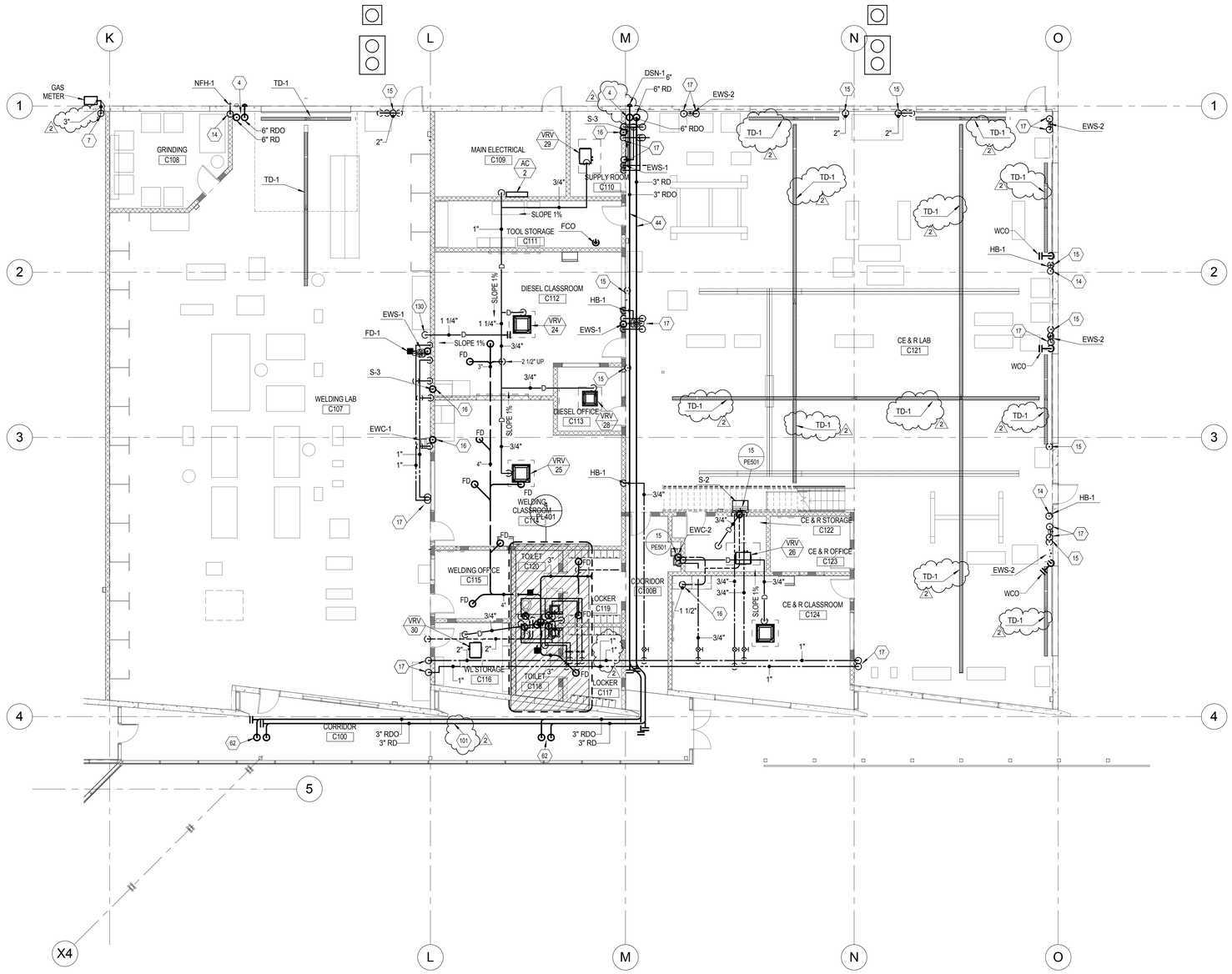
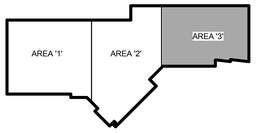


1 Lvl 1 Plumbing Plan 3
SCALE: 1/8" = 1'-0"



SHEET KEYNOTES

4	ROOF DRAIN PIPING UP AND DOWN. ROOF DRAIN OVERFLOW PIPING TO DOWNSPOUT NOZZLE.
7	GAS LINE UP.
14	COLD WATER FROM ABOVE.
15	VENT LINE UP & DOWN.
16	VENT LINE UP.
17	DOMESTIC HOT AND COLD WATER PIPING FROM ABOVE.
44	INSTALL EXPOSED RD AND RDO LINES ON WALL ONE BELOW THE OTHER. SHOWN SIDE BY SIDE FOR CLARITY.
62	TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.
101	PVC JACKET ROOF DRAIN PIPING EXPOSED IN HALLWAY. COLOR BY ARCHITECT.
130	1 ½" CONDENSATE DRAIN DOWN IN WALL. STUB OUT AT FLOOR LEVEL AND EXTEND TO FLOOR SINK.

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LEVEL 1 PLUMBING PLAN 3

sheet:

PL113

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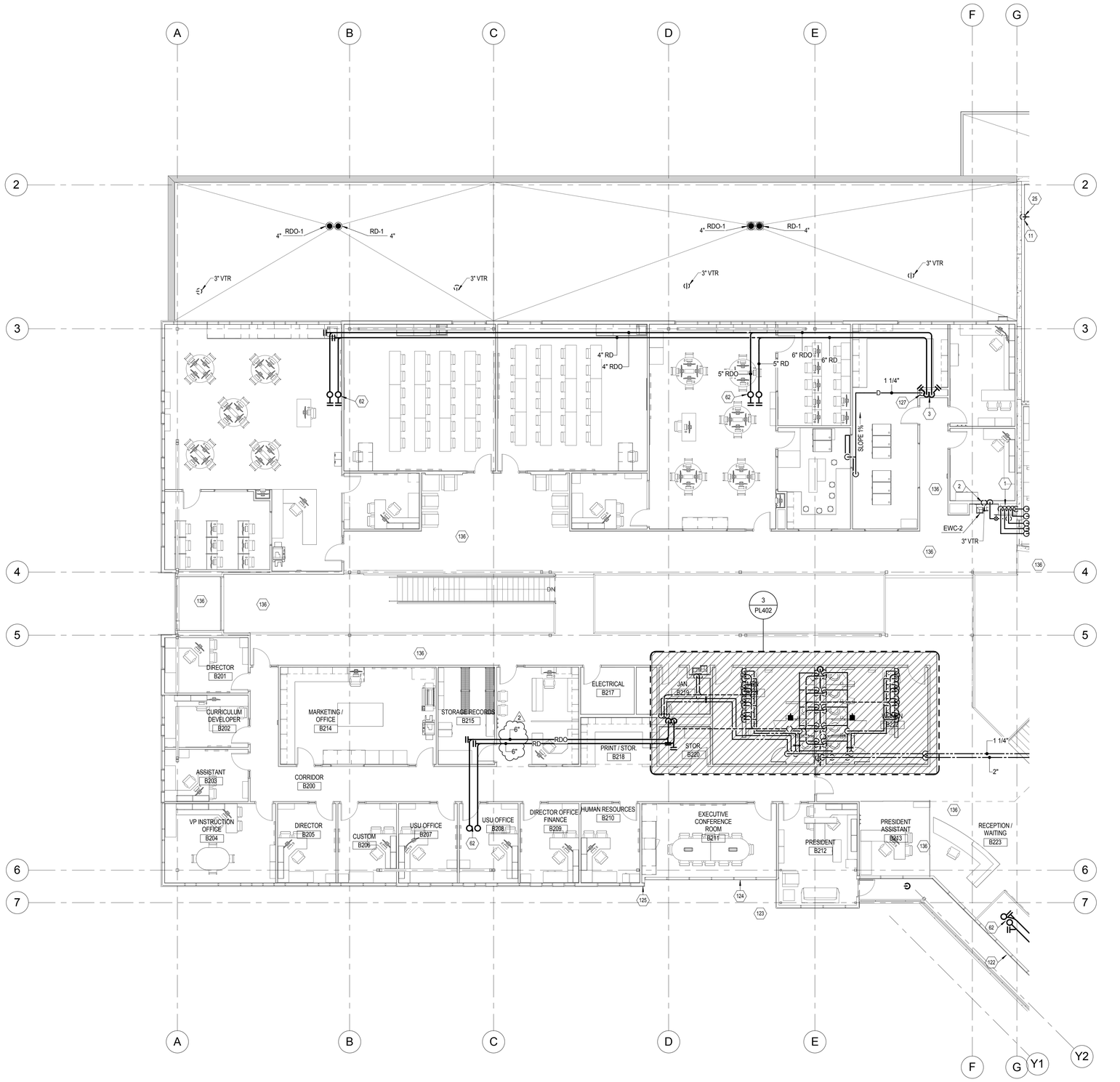


1 Lvl 2 Plumbing Plan 1
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

1 DOMESTIC HOT, COLD, 140, AND 140 RECIRCULATION PIPING AND GAS PIPING DOWN. SEE SHEET PL111 FOR CONTINUATION.

2 1 1/2" WASTE LINE DOWN.

3 ROOF DRAIN AND ROOF DRAIN OVERFLOW DOWN.

11 1 1/2" VENT FROM BELOW.

25 SURFACE MOUNT PIPING ON WALL. OFFSET TO SURFACE MOUNT ON FURRED OUT WALL ABOVE.

62 TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.

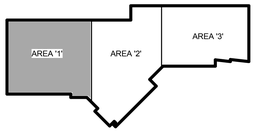
122 720 WATTS HEAT TRACING FOR RAIN GUTTER OVER PRESIDENTS WALKWAY.

124 250 WATTS HEAT TRACING FOR RAIN GUTTER NEXT TO PRESIDENTS OFFICE.

125 400 WATTS HEAT TRACING FOR DOWN SPOUT NEXT TO PRESIDENTS OFFICE. COORDINATE EXACT LOCATION WITH ARCHITECT.

127 DROP 1 ¼" CONDENSATE DRAIN DOWN SHAFT AND CONNECT TO RAIN WATER PIPING 4'-0" ABOVE FINISHED FLOOR.

136 PROVIDE CONCEALED TYPE FIRE SPRINKLER HEADS IN ALL MAIN ENTRY, LOBBY, COORIDOR & PUBLIC AREAS WITH CEILING. TYPICAL.



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925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/10/11

revisions :
2 Addendum 2 2-10-2012

LEVEL 2 PLUMBING PLAN 1

sheet:
PL121

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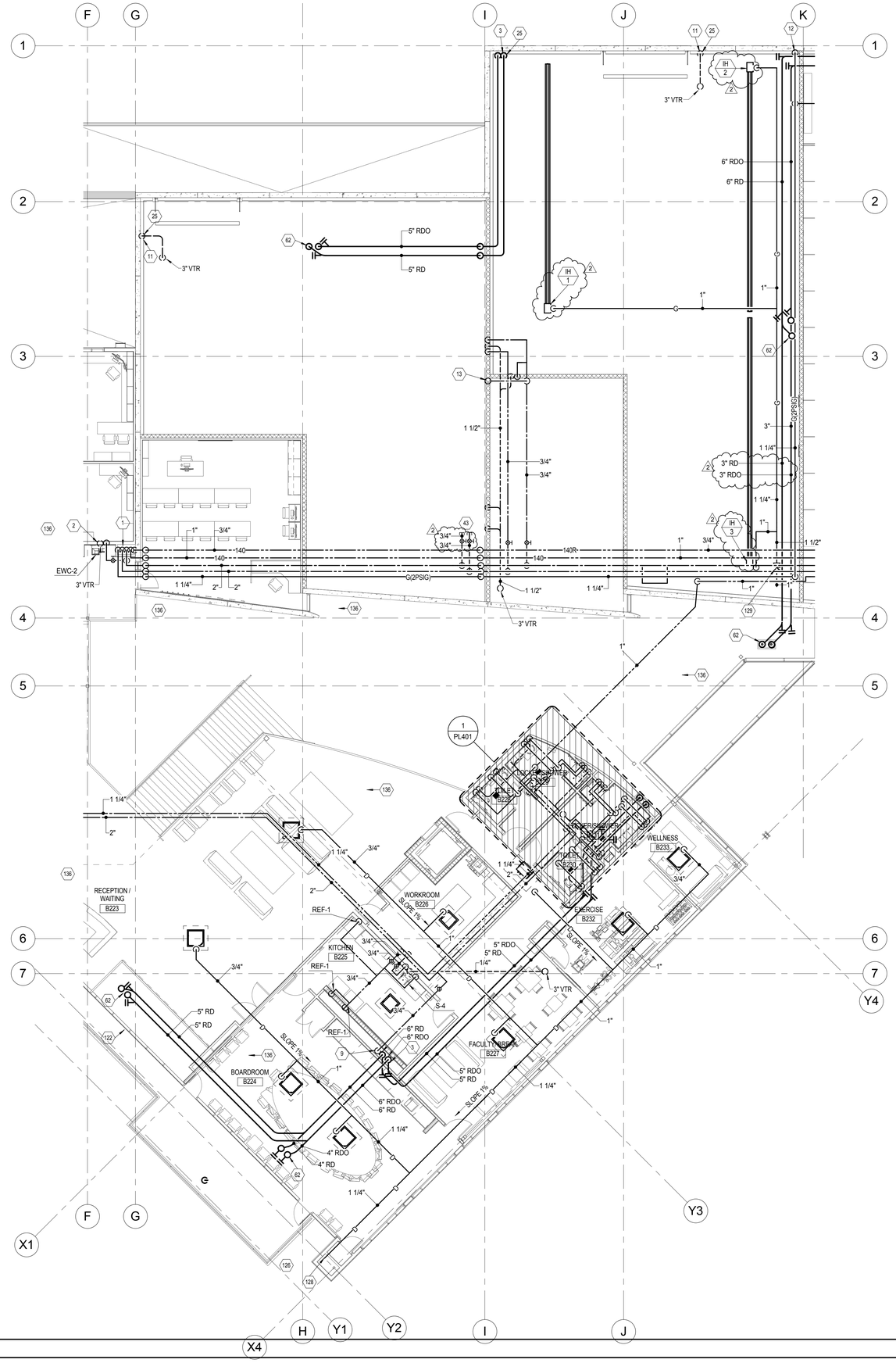


1 Lvl 2 Plumbing Plan 2
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

1 DOMESTIC HOT, COLD, 140, AND 140 RECIRCULATION PIPING AND GAS PIPING DOWN. SEE SHEET PL111 FOR CONTINUATION.

2 1 1/2" WASTE LINE DOWN.

3 ROOF DRAIN AND ROOF DRAIN OVERFLOW DOWN.

9 3/4" COLD WATER LINE DOWN.

11 1 1/2" VENT FROM BELOW.

12 GAS LINE FROM BELOW.

13 COLD WATER LINE UP TO NFH-1 ON ROOF.

25 SURFACE MOUNT PIPING ON WALL. OFFSET TO SURFACE MOUNT ON FURRED OUT WALL ABOVE.

43 CAPPED FOR FUTURE EXPANSION.

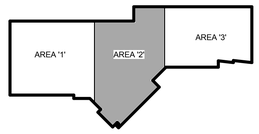
62 TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.

122 720 WATTS HEAT TRACING FOR RAIN GUTTER OVER PRESIDENTS WALKWAY.

128 1 ¼" CONDENSATE DRAIN PIPING DOWN TO FIRST LEVEL.

129 2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. LOAD: 433 CFH.

136 PROVIDE CONCEALED TYPE FIRE SPRINKLER HEADS IN ALL MAIN ENTRY, LOBBY, COORIDOR & PUBLIC AREAS WITH CEILING. TYPICAL.



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LEVEL 2 PLUMBING PLAN 2

sheet:
PL122

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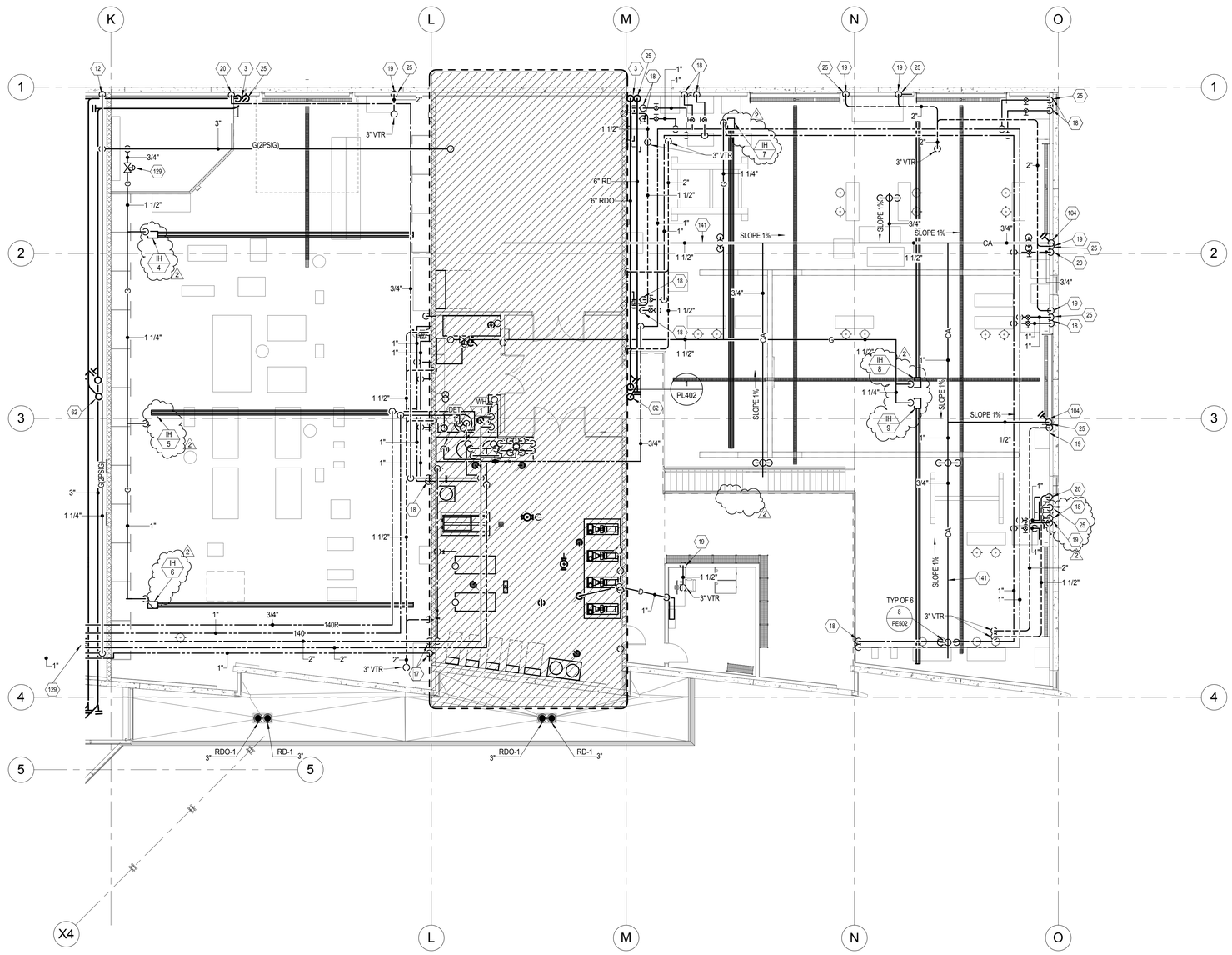


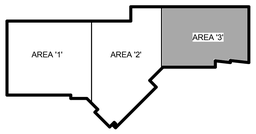
1 Lvl 2 Plumbing Plan 3
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

3	ROOF DRAIN AND ROOF DRAIN OVERFLOW DOWN.
12	GAS LINE FROM BELOW.
17	DOMESTIC HOT AND COLD WATER PIPING FROM ABOVE.
18	DOMESTIC HOT AND COLD WATER PIPING DOWN.
19	VENT FROM BELOW.
20	COLD WATER DOWN.
25	SURFACE MOUNT PIPING ON WALL. OFFSET TO SURFACE MOUNT ON FURRED OUT WALL ABOVE.
62	TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.
104	1/2" BLOW DOWN VALVE. 7'-0" AFF.
129	2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. LOAD: 433 CFH.
141	BID ALTERNATE NO. 4: COMPRESSED AIR SYSTEM TO BE BID AS AN ALTERNATE.

PL123 GENERAL SHEET NOTES

1	BID ALTERNATE NO. 4: ALL ITEMS ASSOCIATED WITH THE COMPRESSED AIR SYSTEM SHALL BE BID AS AN ALTERNATE.



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LEVEL 2 PLUMBING PLAN 3

sheet:

PL123

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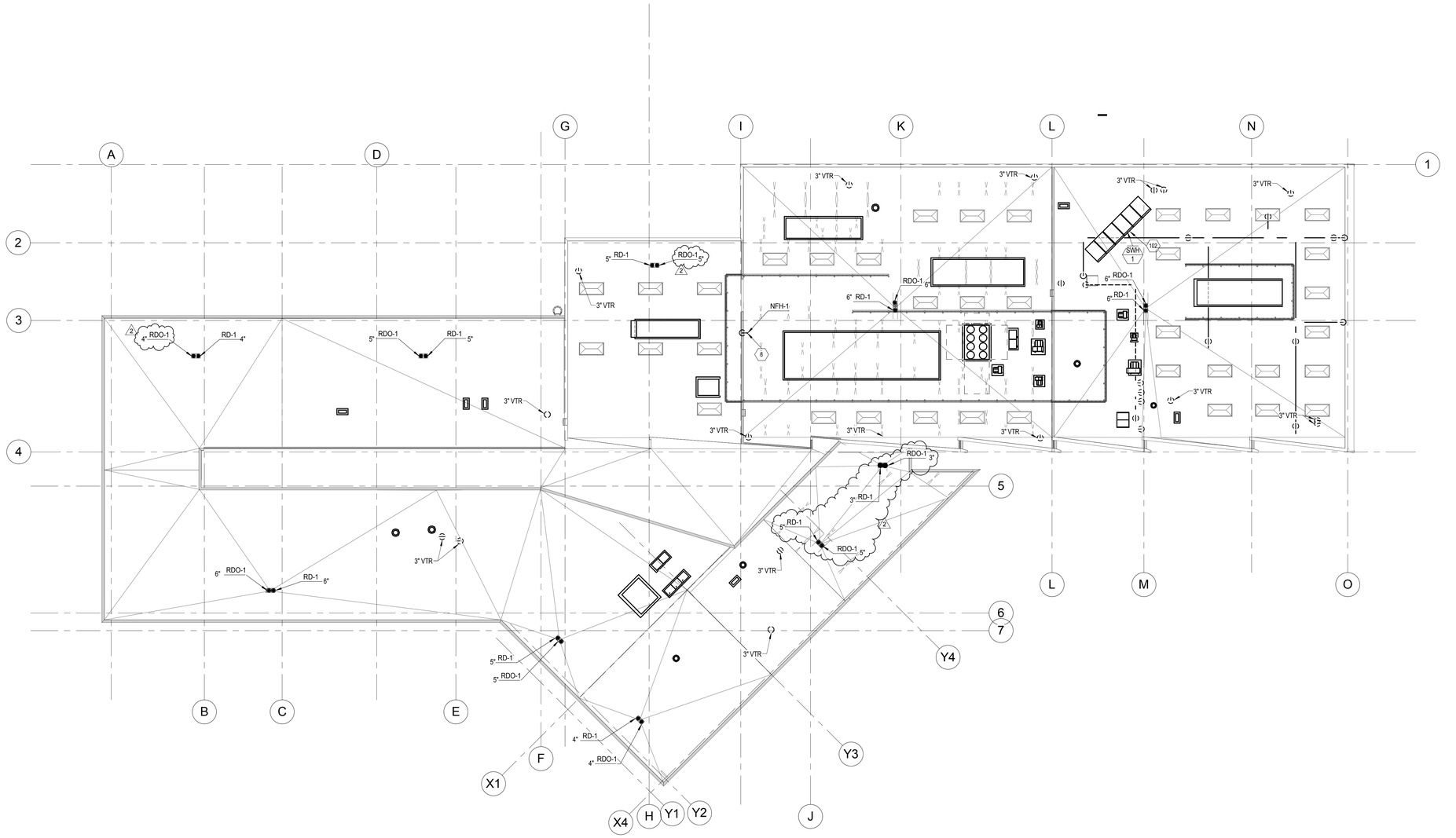

1 ROOF PLUMBING PLAN
SCALE: 1/16" = 1'-0"

SHEET KEYNOTES

8	INSTALL NON-FREEZE HYDRANT ABOVE ROOF IN RECESSED AREA.
102	FLAT PLATE SOLAR COLLECTORS INSTALLED WEIGHT IS 1600 LBS.

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
STATE OF UTAH

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ROOF PLUMBING PLAN

sheet:
PL130

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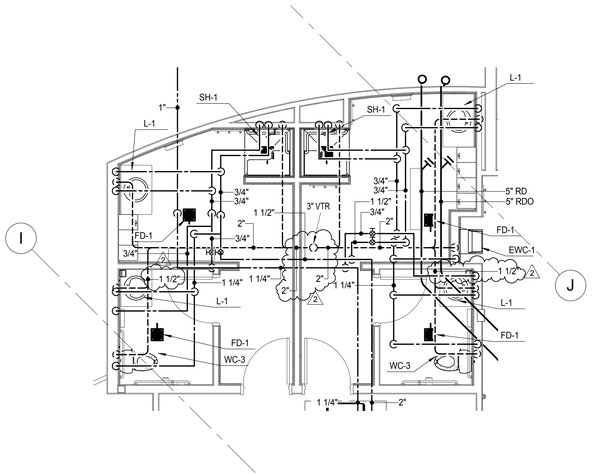
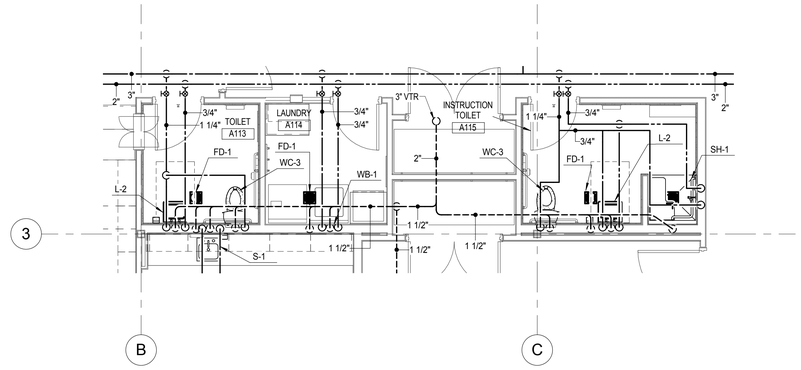
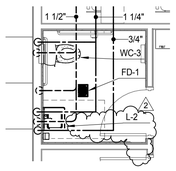


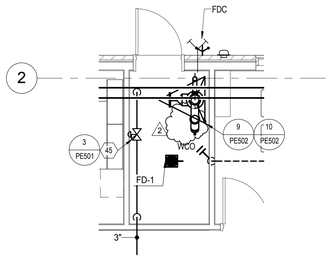
1 LOCKER SHOWER B229, B231
SCALE: 1/4" = 1'-0"



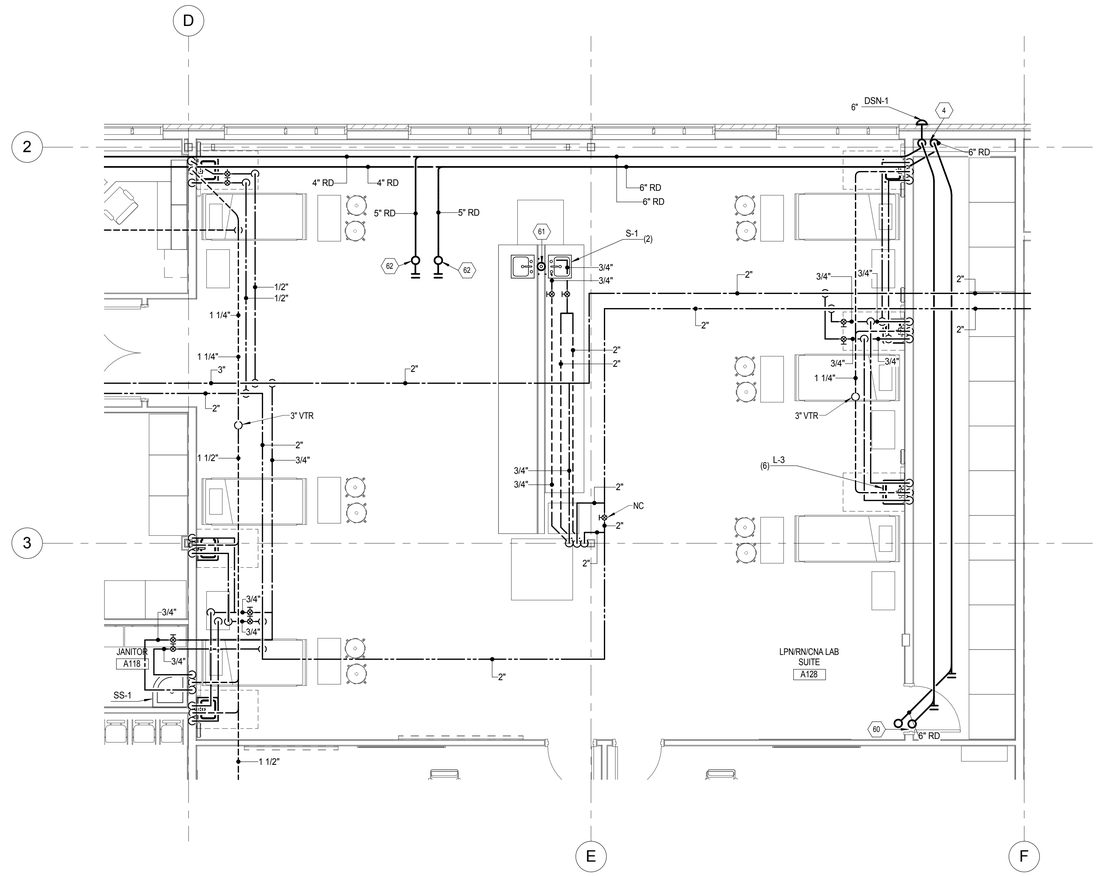
5 TOILET A113, LAUNDRY A114, INSTRUCTION TOILET A115
SCALE: 1/4" = 1'-0"



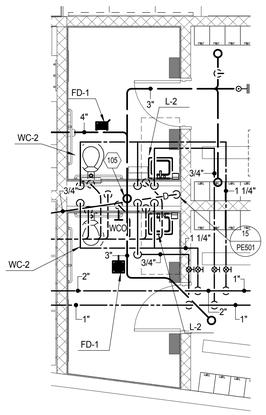
2 TOILET A124
SCALE: 1/4" = 1'-0"



3 FIRE RISER ROOM A130
SCALE: 1/4" = 1'-0"



6 LPN/RN/CNA LAB/SUITE A128
SCALE: 1/4" = 1'-0"



4 TOILET C120, TOILET C118
SCALE: 1/4" = 1'-0"

SHEET KEYNOTES

4	ROOF DRAIN PIPING UP AND DOWN. ROOF DRAIN OVERFLOW PIPING TO DOWNSPOUT NOZZLE.
45	WATER HEADER
60	ROOF DRAIN AND ROOF DRAIN OVERFLOW FROM ABOVE.
61	PROVIDE AND INSTALL AIR ADMITTANCE VALVE PER IPC 2009.
62	TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.
105	4" WASTE FROM ABOVE AND DOWN.

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOD D. VERNON
STATE OF UTAH

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revisions :
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LARGE SCALE PLUMBING PLANS

sheet:
PL401

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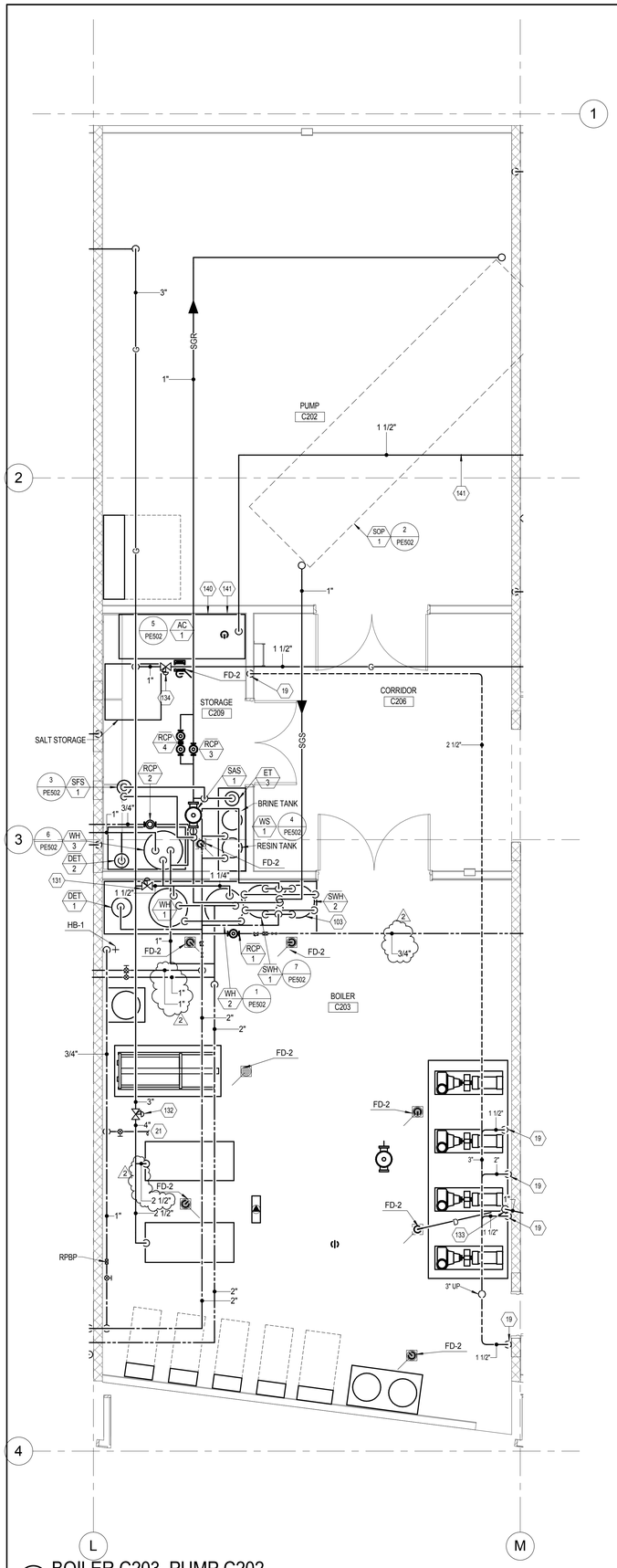
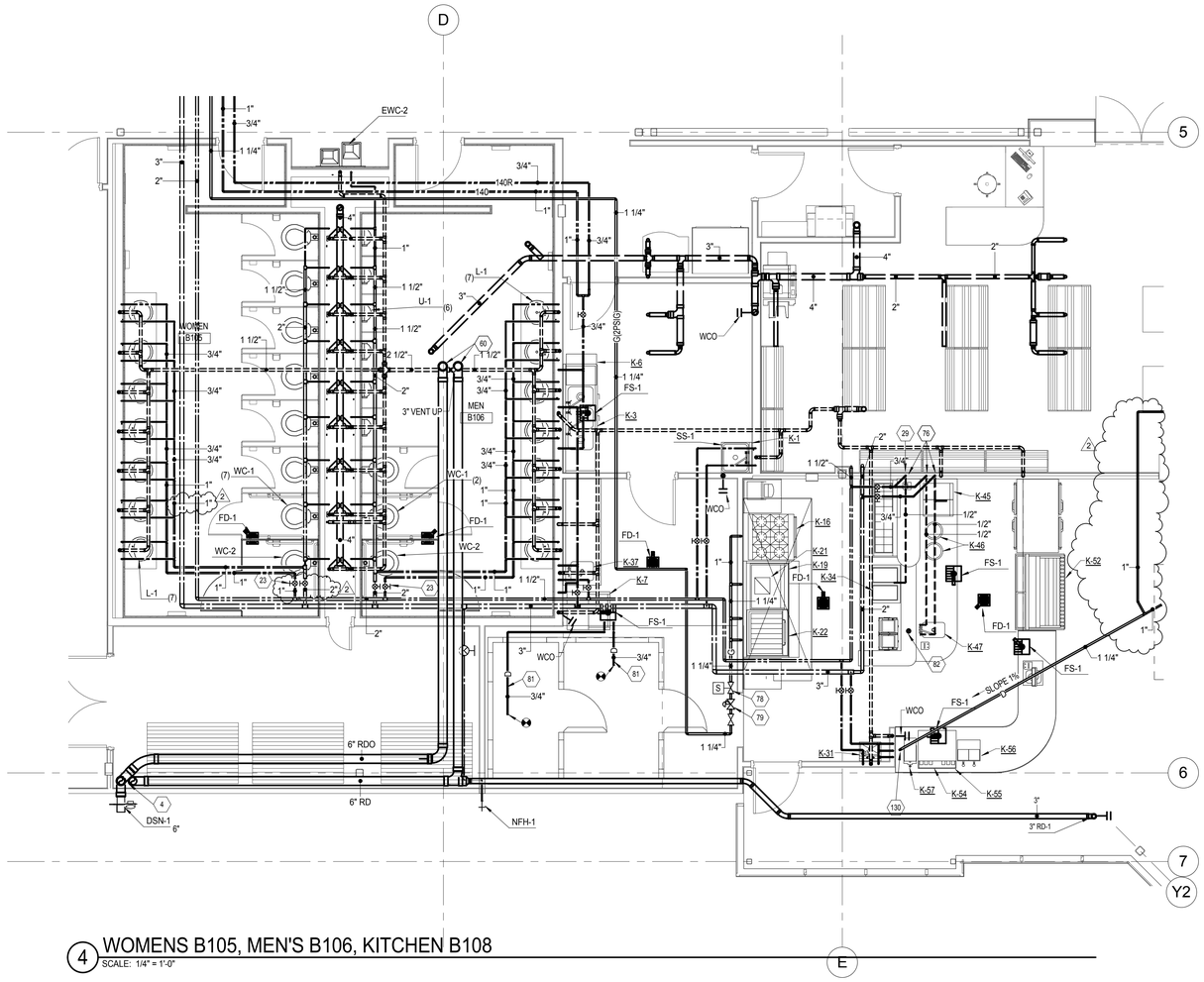
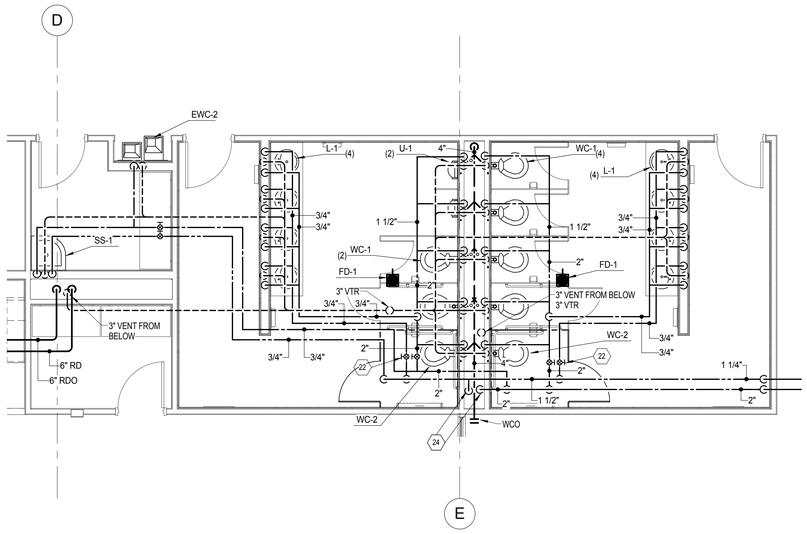


1 BOILER C203, PUMP C202
SCALE: 1/4" = 1'-0"



4 WOMENS B105, MEN'S B106, KITCHEN B108
SCALE: 1/4" = 1'-0"



3 MEN B221, WOMEN B222
SCALE: 1/4" = 1'-0"

PL402 GENERAL SHEET NOTES

1 PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, PRESSURE REDUCING VALVES, AND VACUUM BREAKERS AND CONNECT ALL WATER, FUEL GAS, AND WASTE LINES TO FOOD SERVICE AND BEVERAGE EQUIPMENT.

2 PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL GAS SHUT OFF VALVE AT EACH GAS FIRED PEICE OF EQUIPMENT. COORDINATE WITH KITCHEN CONTRACTOR FOR LOCATION.

3 BID ALTERNATE NO. 4: ALL ITEMS ASSOCIATED WITH THE COMPRESSED AIR SYSTEM SHALL BE BID AS AN ALTERNATE.

SHEET KEYNOTES

4 ROOF DRAIN PIPING UP AND DOWN. ROOF DRAIN OVERFLOW PIPING TO DOWNSPOUT NOZZLE.

19 VENT FROM BELOW.

21 TO BOILER MAKE-UP WATER.

22 COORDINATE LOCATION WITH CEILING ACCESS PANEL.

23 INSTALL ISOLATION VALVES IN PLUMBING CHASE. SHOWN OUTSIDE FOR CLARITY.

24 DOMESTIC HOT AND COLD WATER DOWN. SEE 4/PL402 FOR CONTINUATION.

29 PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL NON-SPILL VACUUM BREAKER ABOVE CEILING.

60 ROOF DRAIN AND ROOF DRAIN OVERFLOW FROM ABOVE.

76 DROP HOT AND COLD WATER DOWN IN WALL AND EXTEND UNDER COUNTER TO FIXTURES.

78 GAS SHUTOFF VALVE, PROVIDED BY KITCHEN CONTRACTOR, INSTALLED BY PLUMBING CONTRACTOR.

79 2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. INSTALL REGULATOR BELOW CEILING. LOAD: 569 CFH.

81 HEAT TRACE AND INSULATE CONDENSATE LINE IN COOLER 3 WATTS PER LINEAL FOOT. HEAT TRACING SHALL BE SELF ACCUTATING.

82 PROVIDE AND INSTALL AIR ADMITTANCE VALVE PER IPC 2009.

103 SOLAR WATER HEATER INSTALLED WEIGHT IS 1400 LBS EACH.

130 1 ¼" CONDENSATE DRAIN DOWN IN WALL. STUB OUT AT FLOOR LEVEL AND EXTEND TO FLOOR SINK.

131 2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. LOAD: 1015 CFH.

132 2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. LOAD: 6920 CFH.

133 DROP 1" CONDENSATE DRAIN DOWN WALL AND EXTEND TO FLOOR DRAIN.

134 2 PSIG TO 4 OZ GAS PRESSURE REGULATOR. VENT TO OUTSIDE. LOAD: 519 CFH.

140 AIR COMPRESSOR. OWNER FURNISHED. CONTRACTOR INSTALLED.

141 BID ALTERNATE NO. 4: COMPRESSED AIR SYSTEM TO BE BID AS AN ALTERNATE.

LICENSED PROFESSIONAL ENGINEER
No. 275661
RAYMOND D. VERNON
STATE OF UTAH

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925 south west temple
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revisions :
2 Addendum 2 2-10-2012

LARGE SCALE PLUMBING PLANS

sheet:

PL402

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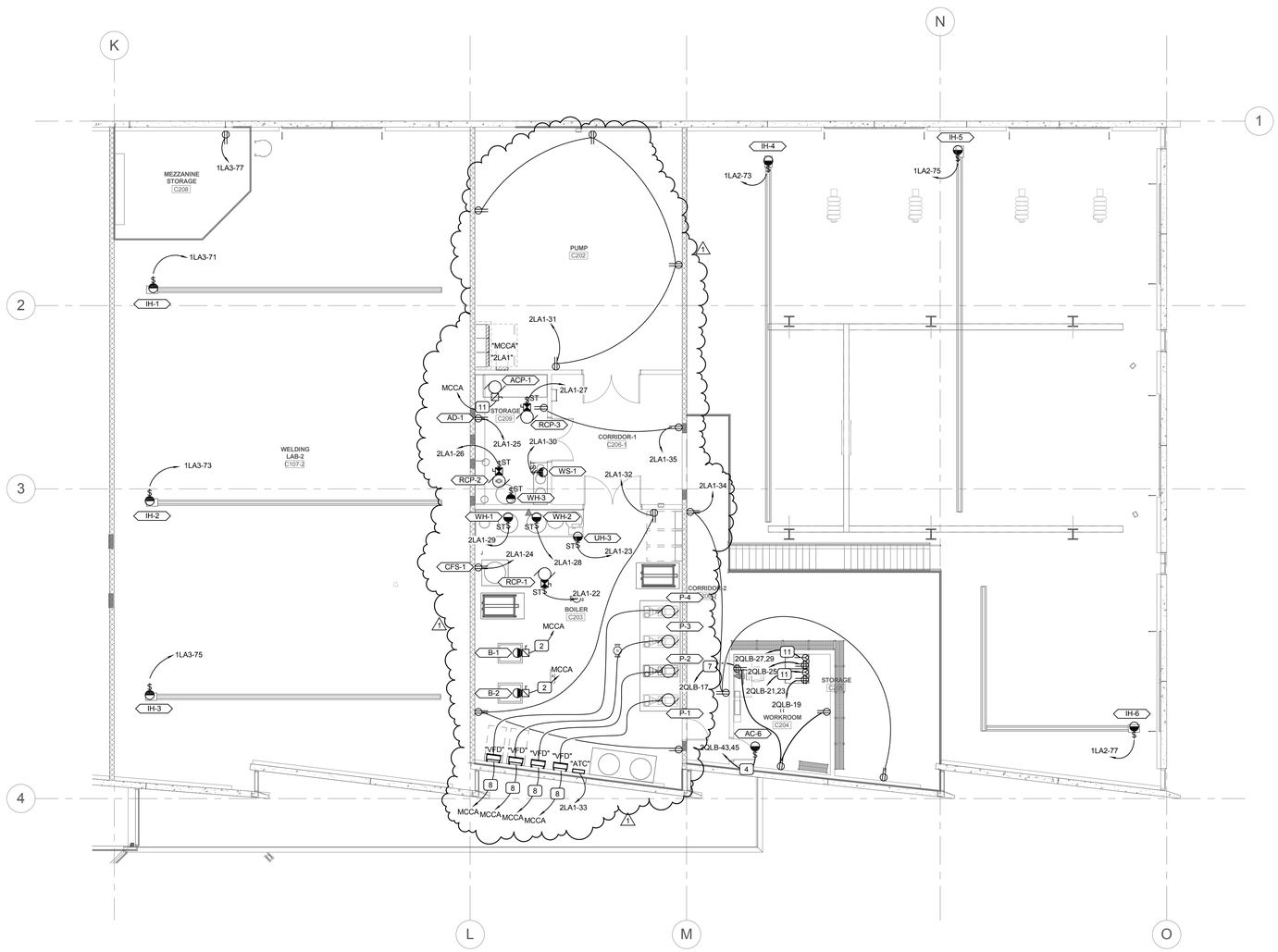
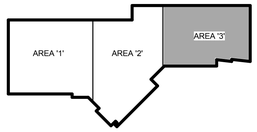


1 LEVEL 2 POWER PLAN - AREA '3'

SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

1 MOUNT RECEPTACLES IN ALL SHOP AREAS AT +48" A.F.F.

2 CE & R LAB 121 IS CLASSIFIED CLASS 1 DIVISION 2 UP TO 18" ABOVE FINISHED FLOOR. COMPLY WITH THE REQUIREMENTS OF NEC ARTICLES 501 AND 511 FOR ALL ELECTRICAL RACEWAY, WIRING AND EQUIPMENT IN THIS AREA. REFER TO DETAIL XX/EP50X.

3 LOCATIONS OF MECHANICAL EQUIPMENT SHOWN IS APPROXIMATE. COORDINATE EXACT LOCATIONS WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.

SHEET KEYNOTES

01/18/2012

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phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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1 ADDENDUM 2 02/10/2012

Level 2 Power Plan - Area '3'

sheet:

EP123

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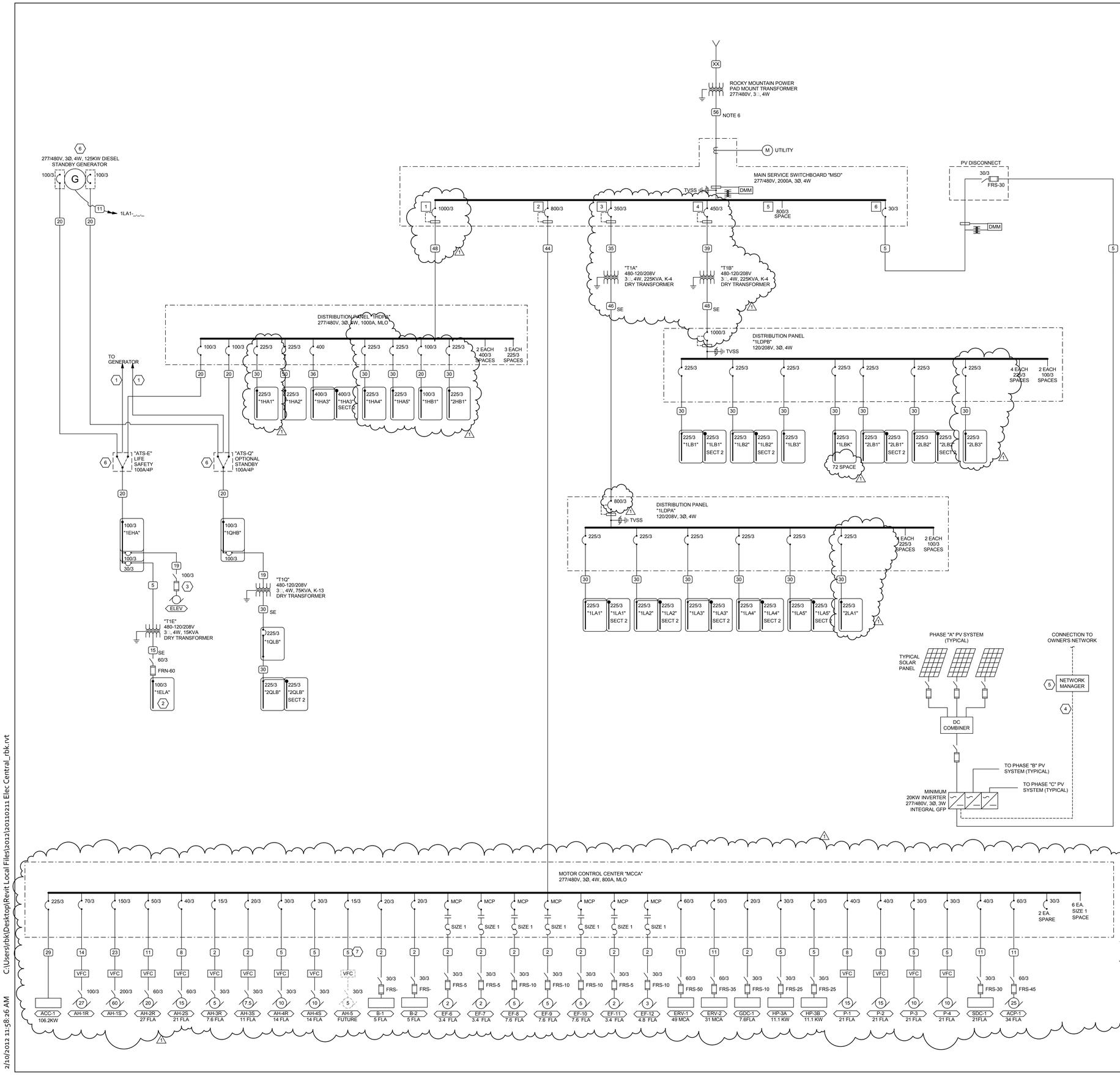

GENERAL SHEET NOTES

1. PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
2. REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
3. ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO SPECIFICATIONS SECTION 16071 FOR REQUIREMENTS.

SHEET KEYNOTES

1. 1" CND WITH CONTROL WIRING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PROVIDE FUSIBLE BRANCH PANELBOARD FOR SELECTIVE COORDINATION PER NEC ARTICLE 700. BUSSMAN COORDINATION MODULE OR EQUIVALENT.
3. PROVIDE FUSIBLE SHUNT-TRIP SWITCH WITH AUXILIARY CONTACTS FOR FIRE ALARM/ELEVATOR INTERFACE. BUSSMAN TYPE "FS" OR EQUIVALENT. COORDINATE FUSE RATING WITH ELEVATOR INSTALLER.
4. PROVIDE COMMUNICATIONS CABLING IN 1" CONDUIT AS REQUIRED BY EQUIPMENT.
5. NETWORK MANAGER DEVICE FOR WEB MONITORING OF PHOTOVOLTAIC ARRAY. PROVIDE NETWORK COMMUNICATION CARDS IN INVERTERS AS REQUIRED.
6. GENERATOR AND TRANSFER SWITCHES ARE PART OF BID ALTERNATE #7. IF ALTERNATE IS NOT ACCEPTED, PROVIDE PULL BOXES IN LIEU OF TRANSFER SWITCHES ON NORMAL POWER FEEDERS TO FACILITATE FUTURE TRANSFER SWITCH INSTALLATION.
7. PROVIDE EMPTY CONDUIT FROM MCC TO LOCATION OF FUTURE AH-5.

CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER
SUBSCRIPT (NOTE 5)
(E.G. 5 IG)

SYM	AMP	CONDUIT SIZE	CONDUCTOR (NOTE 1) QTY	SIZE	G	IG	SE	NOTES
1	20	.75	2	12	12	12	8	2
2	20	.75	3	12	12	12	8	2,3
3	20	.75	4	12	12	12	8	2,3
4	30	.75	2	10	10	10	8	2
5	30	.75	3	10	10	10	8	2
6	30	.75	4	10	10	10	8	2
7	40	1	2	8	10	8	6	2
8	40	1	3	8	10	8	6	2
9	40	1	4	8	10	8	6	2
10	55	1	2	6	10	8	4	2
11	55	1	3	6	10	8	4	2
12	55	1.25	4	6	10	8	4	2
13	70	1	2	4	8	4	2	2
14	70	1.25	3	4	8	4	2	2
15	70	1.25	4	4	8	4	2	2
16	85	1.25	2	3	8	3	2	2
17	85	1.25	3	3	8	3	2	2
18	85	1.25	4	3	8	3	2	2
19	95	1.25	3	2	8	2	2	2
20	95	1.50	4	2	8	2	2	2
21	130	1.50	3	1	6	2	2	2
22	130	1.50	4	1	6	2	2	2
23	150	2	3	1/0	6	2	1/0	2
24	150	2	4	1/0	6	2	1/0	2
25	175	2	3	2/0	6	2	2/0	2
26	175	2	4	2/0	6	2	2/0	2
27	200	2	3	3/0	6	2	2/0	2
28	200	2.50	4	3/0	6	2	2/0	2
29	230	2.50	3	4/0	4	2	2/0	2
30	230	2.50	4	4/0	4	2	2/0	2
31	255	2.50	3	250	4	1	2/0	2
32	255	2.50	4	250	4	1	2/0	2
33	310	3	3	350	3	1/0	3/0	2
34	310	3	4	350	3	1/0	3/0	2
35	380	3.50	3	500	3	3/0	3/0	2
36	380	4	4	500	3	3/0	3/0	2
37	400	2 EA 2	3	3/0	3	3/0	3/0	2
38	400	2 EA 2.50	4	3/0	3	3/0	3/0	2
39	510	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	2 EA 3	4	250	1	4/0	3/0	2
41	620	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	780	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	780	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	3 EA 3.50	4	400	2/0	4/0	3/0	4
49	1140	3 EA 4	3	500	3/0	4/0	3/0	4
50	1140	2 EA 4	4	500	3/0	4/0	3/0	4
51	1240	4 EA 3	3	350	3/0	4/0	3/0	4
52	1240	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	5 EA 3.50	4	400	4/0	4/0	4/0	4
54	2010	6 EA 3.50	4	400	250	250	250	4
55	2660	7 EA 4	4	500	350	350	350	4
56	3040	8 EA 4	4	500	500	500	500	4
57	4180	11 EA 4	4	500	500	500	500	4
58		5 EA 4						6
59		5						6
60		10 EA 4						6

CONDUCTOR AND CONDUIT SCHEDULE NOTES

1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
5. WHEN SYMBOL SUBSCRIPT INDICATES "IG", INCLUDE "IG" OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES "SE", SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.
6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

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01/18/2012

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :
1 ADDENDUM 2 02/10/2012

One-Line Diagram

sheet:
EP601

100% Construction Documents

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EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			STARTER DATA									NOTES	MARK
			HP	kW	MCA	FLA	VOLT	PH	Hz		FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACTS	NORMALLY CLOSED CONTACTS	PHASE FAILURE RELAY		
AC-1		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-1
AC-2		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-2
AC-3		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-3
AC-4		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-4
AC-5		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-5
AC-6		AIR CONDITIONER			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										AC-6
ACC-1		AIR COOLED CONDENSING UNIT		106.2	198		480	3	60	3 #4/0, #4 GR 2.5" CND	E	225A/3P CB	MCCA	Q			Q										ACC-1
ACP-1		AIR COMPRESSOR	25			34	480	3	60	3 #6, #10 GR 1" CND	E	60A/3P CB	PANEL	E	60A/3P FRS-45	ADJ. TO EQUIP	Q										ACP-1
AD-1		AIR DRYER					120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	CORD & PLUG	ADJ. TO EQUIP.	Q									1	AD-1
AH-1-R		AIR HANDLER RETURN FAN	27				480	3	60	3 #4, #8 GR 1.25" CND	E	70A/3P CB	MCCA	E	100A/3P NO FUSE	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.							NOTE 4 NOTE 7	AH-1-R
AH-1-S		AIR HANDLER SUPPLY FAN	60				480	3	60	3 #1/0, #6 GR 2" CND	E	150A/3P CB	MCCA	E	200A/3P NO FUSE	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.							NOTE 5 NOTE 7	AH-1-S
AH-2-R		AIR HANDLER RETURN FAN	20			27	480	3	60	3 #6, #10 GR 1" CND	E	50A/3P CB	MCCA	E	60A/3P NO FUSE	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.							NOTE 7	AH-2-R
AH-2-S		AIR HANDLER SUPPLY FAN	15			21	480	3	60	3 #8, #10 GR 1" CND	E	40A/3P CB	MCCA	E	60A/3P NO FUSE	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.							NOTE 7	AH-2-S
AH-3-R		AIR HANDLER RETURN FAN	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P NO FUSE	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.							NOTE 7	AH-3-R
AH-3-S		AIR HANDLER SUPPLY FAN	7.5			11	480	3	60	3 #12, #12 GR 0.75" CND	E	20A/3P CB	MCCA	E	30A/3P NO FUSE	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.							NOTE 7	AH-3-S
AH-4-R		AIR HANDLER RETURN FAN	10			14	480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	MCCA	E	30A/3P NO FUSE	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.							NOTE 7	AH-4-R
AH-4-S		AIR HANDLER SUPPLY FAN	10			14	480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	MCCA	E	30A/3P NO FUSE	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.							NOTE 7	AH-4-S
AH-5		FUTURE AIR HANDLER	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E												NOTE 3	AH-5
ATC	8	AIR TEMP CONTROL PANEL					120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	Q			Q										ATC
B-1		BOILER				5	480	3	60	3 #12, #12 GR 0.75" CND	E	20A/3P CB	MCCA	E	30A/3P FRS-	ADJ. TO EQUIP.	Q									NOTE 6	B-1
B-2		BOILER				5	480	3	60	3 #12, #12 GR 0.75" CND	E	20A/3P CB	MCCA	E	30A/3P FRS-	ADJ. TO EQUIP.	Q									NOTE 6	B-2
BS-1		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-1
BS-2		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-2
BS-3		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-3
BS-4		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-4
BS-5		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-5
BS-6		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-6
BS-7		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-7
BS-8		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-8
BS-9		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-9
BS-10		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-10
BS-11		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-11
BS-12		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-12
BS-13		BRANCH SELECTOR			0.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										BS-13
CFS-1		CHEMICAL FEED SYSTEM	1/3			7.2	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	CORD & PLUG	ADJ. TO EQUIP.	Q										CFS-1
CU-1		CONDESNING UNIT			16		208	1	60	2 #10, #10 GR 0.75" CND	E	20A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-1
CU-2		CONDESNING UNIT			10.5		208	1	60	2 #10, #10 GR 0.75" CND	E	20A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-2
CU-3		CONDESNING UNIT			22		208	1	60	2 #10, #10 GR 0.75" CND	E	30A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-3
CU-4		CONDESNING UNIT			22		208	1	60	2 #10, #10 GR 0.75" CND	E	30A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-4
CU-5		CONDESNING UNIT			16		208	1	60	2 #10, #10 GR 0.75" CND	E	20A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-5
CU-6		CONDESNING UNIT			15		208	1	60	2 #10, #10 GR 0.75" CND	E	20A/2P CB	PANEL	E	30A/2P FRN-	ADJ. TO EQUIP.	Q										CU-6
CUH-1		CABINET UNIT HEATER	1/40			0.55	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										CUH-1
CUH-2		CABINET UNIT HEATER	1/40			0.55	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										CUH-2
ECSP-1	2	EVAP COOLER SUMP PUMP	1/3			7.2	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										ECSP-1
ECSP-2	3	EVAP COOLER SUMP PUMP	1/10				120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.											ECSP-2
EF-1		EXHAUST FAN	1/4			5.8	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-1
EF-2		EXHAUST FAN	1/30				120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-2
EF-3		EXHAUST FAN	3/4			1.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	PANEL	E	30A/3P FRS-2	ADJ. TO EQUIP.	E	FVNR	ADJ. TO EQUIP.	1	HOA	R,G	2	2			EF-3
EF-4		EXHAUST FAN	1/4			5.8	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-4
EF-5		EXHAUST FAN	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-5
EF-6		EXHAUST FAN	2			3.4	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-5	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-6
EF-7		EXHAUST FAN	2			3.4	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-5	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-7
EF-8		EXHAUST FAN	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-10	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-8
EF-9		EXHAUST FAN	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-10	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-9
EF-10		EXHAUST FAN	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-10	ADJ. TO EQUIP	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-10
EF-11		EXHAUST FAN	2			3.4	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-5	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-11
EF-12		EXHAUST FAN	3			4.8	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	MCCA	E	30A/3P FRS-10	ADJ. TO EQUIP.	E	FVNR	MCCA	1	HOA	R,G	2	2			EF-12
EF-13		EXHAUST FAN	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-13
EF-14		EXHAUST FAN	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-14
EF-15		EXHAUST FAN	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-15
EF-16		EXHAUST FAN	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.								EF-16
ERV-1		ENERGY RECOVERY UNIT			49		480	3	60	3 #6, #10 GR 1" CND	E	60A/3P CB	MCCA	E	60A/3P FRS-50	ADJ. TO EQUIP.	Q										ERV-1

NOTES:
1. PROVIDE 120V CONTROL CIRCUIT TO EQUIPMENT.
2. SEE DETAIL 1/EE501 FOR RELAY CONTROL REQUIRMENTS.
3. AIR HANDLER AH-5 IS FUTURE. PROVIDE CONDUIT ONLY TO FUTURE LOCATION AS SHOWN ON DRAWINGS.
4. AH-1 RETURN FAN IS (18) 1.5 HP FANS. PROVIDE (1) VFD TO CONTROL ALL FANS AS A GROUP. PROVIDE INDIVIDUAL OVERLOAD PROTECTION FOR EACH MOTOR.
5. AH-1 SUPPLY FAN IS (12) 5 HP FANS. PROVIDE (1) VFD TO CONTROL ALL FANS AS A GROUP. PROVIDE INDIVIDUAL OVERLOAD PROTECTION FOR EACH MOTOR.
6. PROVIDE SHUNT TRIP BREAKER AND EMERGENCY OFF BUTTON AT EACH BOILER ROOM EXIT.
7. PROVIDE QUICK BREAK,SLOW MAKE AUXILIARY CONTACTS ON DISCONNECT TO SHUTDOWN VFD PRIOR TO OPENING OF MAIN CONTACTS.

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REGISTERED PROFESSIONAL ENGINEER No. 7162 STATE OF UTAH
01/18/2012

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions:
1 ADDENDUM 2 02/10/2012

Equipment Schedule

sheet:
EP603

100% Construction Documents

EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA HP	LOAD DATA kW	LOAD DATA MCA	LOAD DATA FLA	LOAD DATA VOLT	LOAD DATA PH	LOAD DATA Hz	WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION FURN BY	OVERCURRENT PROTECTION DEVICE	OVERCURRENT PROTECTION LOCATION	DISCONNECT FURN BY	DISCONNECT DEVICE	DISCONNECT LOCATION	STARTER DATA FURN BY	STARTER DATA DEVICE	STARTER DATA LOCATION	STARTER DATA SIZE	STARTER DATA SELECTOR SWITCH	STARTER DATA PILOT LAMP	STARTER DATA NORMALLY OPEN CONTACTS	STARTER DATA NORMALLY CLOSED CONTACTS	STARTER DATA PHASE FAILURE RELAY	NOTES	MARK
ERV-2		ENERGY RECOVERY UNIT			31		480	3	60	3 #6, #10 GR 1" CND	E	50A/3P CB	MCCA	E	60A/3P FRS-35	ADJ. TO EQUIP.	Q										ERV-2
FC-1		FAN COIL UNIT	1/4			4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										FC-1
FC-2		FAN COIL UNIT	1/4			8	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										FC-2
GDC-1		GRINDING DUST COLLECTOR	5			7.6	480	3	60	3 #12, #12 GR 0.75" CND	E	20A/3P CB	MCCA	E	30A/3P FRS-10	ADJ. TO EQUIP.	Q									NOTE 1	GDC-1
HP-1A		VRV CONDENSING UNIT		11.1	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-25	ADJ. TO EQUIP.	Q										HP-1A
HP-1B		VRV CONDENSING UNIT		11.7	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-30	ADJ. TO EQUIP.	Q										HP-1B
HP-1C		VRV CONDENSING UNIT		11.7	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-30	ADJ. TO EQUIP.	Q										HP-1C
HP-2A		VRV CONDENSING UNIT		11.1	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-25	ADJ. TO EQUIP.	Q										HP-2A
HP-2B		VRV CONDENSING UNIT		11.1	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	PANEL	E	30A/3P FRS-25	ADJ. TO EQUIP.	Q										HP-2B
HP-3A		VRV CONDENSING UNIT		11.1	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	MCCA	E	30A/3P FRS-25	ADJ. TO EQUIP.	Q										HP-3A
HP-3B		VRV CONDENSING UNIT		11.1	21		480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	MCCA	E	30A/3P FRS-25	ADJ. TO EQUIP.	Q										HP-3B
IH-1		INFRARED HEATER			1.2		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-1
IH-2		INFRARED HEATER			1.2		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-2
IH-3		INFRARED HEATER			1.2		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-3
IH-4		INFRARED HEATER			1.2		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-4
IH-5		INFRARED HEATER			1.2		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-5
IH-6		INFRARED HEATER			1.2		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-6
IH-7		INFRARED HEATER			1.2		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-7
IH-8		INFRARED HEATER			1.2		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-8
IH-9		INFRARED HEATER			1.2		120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										IH-9
P-1		HEATING WATER PUMP	15			21	480	3	60	3 #8, #10 GR 1" CND	E	40A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								P-1
P-2		HEATING WATER PUMP	15			21	480	3	60	3 #8, #10 GR 1" CND	E	40A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								P-2
P-3		GLYCOL LOOP PUMP	10			14	480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								P-3
P-4		GLYCOL LOOP PUMP	10			14	480	3	60	3 #10, #10 GR 0.75" CND	E	30A/3P CB	MCCA	E	VFD	ADJ. TO EQUIP.	E	VFD	ADJ. TO EQUIP.								P-4
P-5		COIL CIRC PUMP	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	P-5
P-6		COIL CIRC PUMP	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	P-6
P-7		COIL CIRC PUMP	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	P-7
P-8		COIL CIRC PUMP	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	P-8
PAC	3	PORTABLE AIR CLEANER	1.5			3	480	3	60	3 #12, #12 GR 0.75" CND	E	15A/3P CB	PANEL	E	CORD & PLUG	SEE PLANS	Q										PAC
RCP-1		DOMESTIC RECIRC PUMP	1/2			9.8	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	RCP-1
RCP-2		DOMESTIC RECIRC PUMP	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	RCP-2
RCP-3		SOLAR WATER HEATER GLYCOL PUMP	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	E	RELAY	ADJ. TO EQUIP.							NOTE 2	RCP-3
SDC-1		SAWDUST COLLECTOR	15			21	480	3	60	3 #6, #10 GR 1" CND	E	40A/3P CB	MCCA	E	30A/3P FRS-30	ADJ. TO EQUIP.	Q									NOTE 1	SDC-1
SFS-1		SOLAR WATER CHEMICAL FEED	1/3			7.2	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										SFS-1
TSR-1		TUBING STORAGE REEL	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										TSR-1
TSR-2		TUBING STORAGE REEL	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										TSR-2
TSR-3		TUBING STORAGE REEL	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										TSR-3
TSR-4		TUBING STORAGE REEL	1/6			4.4	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										TSR-4
UH-1		UNIT HEATER	1/10			1.3	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										UH-1
UH-2		UNIT HEATER	1/10			1.3	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										UH-2
UH-3		UNIT HEATER	1/15			0.7	120	1	60	2 #12, #12 GR 0.75" CND	E	15A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										UH-3

NOTES:
1. PROVIDE 120V CONTROL CIRCUIT TO EQUIPMENT.
2. SEE DETAIL 1/EE501 FOR RELAY CONTROL REQUIRMENTS.
3. AIR HANDLER AH-5 IS FUTURE. PROVIDE CONDUIT ONLY TO FUTURE LOCATION AS SHOWN ON DRAWINGS.
4. AH-1 RETURN FAN IS (18) 1.5 HP FANS. PROVIDE (1) VFD TO CONTROL ALL FANS AS A GROUP. PROVIDE INDIVIDUAL OVERLOAD PROTECTION FOR EACH MOTOR.
5. AH-1 SUPPLY FAN IS (12) 5 HP FANS. PROVIDE (1) VFD TO CONTROL ALL FANS AS A GROUP. PROVIDE INDIVIDUAL OVERLOAD PROTECTION FOR EACH MOTOR.
6. PROVIDE SHUNT TRIP BREAKER AND EMERGENCY OFF BUTTON AT EACH BOILER ROOM EXIT.
7. PROVIDE QUICK BREAK,SLOW MAKE AUXILIARY CONTACTS ON DISCONNECT TO SHUTDOWN VFD PRIOR TO OPENING OF MAIN CONTACTS.

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01/18/2012

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :

1	ADDENDUM 2	02/10/2012

Equipment Schedule

sheet:

EP604

EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			STARTER DATA									NOTES	MARK
			HP	kW	MCA	FLA	VOLT	PH	Hz		FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACTS	NORMALLY CLOSED CONTACTS	PHASE FAILURE RELAY		
VRV-1A		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-1A
VRV-1B		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-1B
VRV-2A		VARIABLE REFRIG VOLUME			1.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-2A
VRV-2B		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-2B
VRV-3		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-3
VRV-4		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-4
VRV-5		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-5
VRV-6		VARIABLE REFRIG VOLUME			1.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-6
VRV-7		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-7
VRV-8		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-8
VRV-9		VARIABLE REFRIG VOLUME			1.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-9
VRV-10		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-10
VRV-11		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-11
VRV-12		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-12
VRV-13		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-13
VRV-14		VARIABLE REFRIG VOLUME			.3		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-14
VRV-15		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-15
VRV-16		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-16
VRV-17		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-17
VRV-17A		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-17A
VRV-18		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-18
VRV-19		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-19
VRV-20		VARIABLE REFRIG VOLUME			.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-20
VRV-21		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-21
VRV-22		VARIABLE REFRIG VOLUME			1		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-22
VRV-23		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-23
VRV-24		VARIABLE REFRIG VOLUME			.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-24
VRV-25		VARIABLE REFRIG VOLUME			.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-25
VRV-26		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-26
VRV-27		VARIABLE REFRIG VOLUME			.5		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-27
VRV-28		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-28
VRV-29		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-29
VRV-30		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-30
VRV-31		VARIABLE REFRIG VOLUME			.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-31
VRV-32		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-32
VRV-33		VARIABLE REFRIG VOLUME			.6		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-33
VRV-34		VARIABLE REFRIG VOLUME			.8		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-34
VRV-35A		VARIABLE REFRIG VOLUME			3.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-35A
VRV-35B		VARIABLE REFRIG VOLUME			3.4		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-35B
VRV-36		VARIABLE REFRIG VOLUME			.3		208	1	60	2 #12, #12 GR 0.75" CND	E	15A/2P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.	Q										VRV-36
WH-1		WATER HEATER				15	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.											WH-1
WH-2		WATER HEATER				15	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.											WH-2
WH-3		WATER HEATER				15	120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.											WH-3
WS-1		WATER SOFTENER					120	1	60	2 #12, #12 GR 0.75" CND	E	20A/1P CB	PANEL	E	THERMAL SWITCH	ADJ. TO EQUIP.											WS-1
									60		E			E													

NOTES:
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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
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800-678-7077
801-328-5151
fax: 801-328-5155
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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :

Equipment Schedule

sheet:

EP605

100% Construction Documents

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PANEL "1EHA"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	100	3	ELEV. EQ. B117	7.0	1.9					PANEL "1ELA"	3	30	2
3	--	--	--			7.0	1.4			--	--	--	4
5	--	--	--					7.0	0.7	--	--	--	6
7	20	1	LTG: EXTERIOR	1.7	1.2					LTG: RECEPTION / WAITING B223	1	20	8
9	20	1	LTG: MULTIPURPOSE ROOM B103			0.4	0.2			LTG: LOBBY B101	1	20	10
11	20	1	LTG: CORRIDOR B100					0.7	0.3	LTG: LAVS/ELEC	1	20	12
13	20	1	LTG: RN CLASSROOM A127	0.5	0.4					LTG: CLASSROOMS	1	20	14
15	20	1	LTG: COORIDOR C100B			0.6	0.1			LTG: EXIT SIGNS	1	20	16
17	20	1	LTG: LABS					3.0	0.0	SPARE	1	0	18
19	20	1	LTG: EXIT SIGNS	0.2	0.0					SPARE	1	20	20
21	20	1	LTG: EXIT SIGNS			0.2	0.0			SPARE	1	20	22
23	0	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	LTG: SERVER / IT STORAGE A210	0.5	0.0					SPARE	1	20	26
27	20	1	LTG: BOILER C203			1.4	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
TOTALS:			CONNECTED kVA PER PHASE	13		11		12		CONNECTED TOTAL kVA	36		
			CONNECTED AMPS PER PHASE	48		41		43		CONNECTED AVERAGE AMPS PER PHASE	44		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **11kVA @ 125% = 14kVA** ALL OTHER LOADS @100%= **22.0 kVA** DIVERSIFIED TOTAL kVA **37**
RECEPTACLES **1 kVA @100% =1 kVA** TOTAL MOTOR DEMAND= AVERAGE AMPS PER **45**

Notes:

PANEL "1HA2"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	30	3	PWR	5.0	5.0					PWR: DROP CORD	3	30	2
3	--	--	--			5.0	5.0			--	--	--	4
5	--	--	--					5.0	5.0	--	--	--	6
7	30	3	PWR: DROP CORD	5.0	8.3					MTR: LIFT CE & R LAB C121	3	50	8
9	--	--	--			5.0	8.3			--	--	--	10
11	--	--	--					5.0	8.3	--	--	--	12
13	30	3	PWR CE & R LAB C121	5.0	5.0					PWR	3	30	14
15	--	--	--			5.0	5.0			--	--	--	16
17	--	--	--					5.0	5.0	--	--	--	18
19	30	3	PWR	5.0	1.0					LTG: CE & R CLASSROOM C124	1	20	20
21	--	--	--			5.0	0.0			SPARE	1	20	22
23	--	--	--					5.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
TOTALS:			CONNECTED kVA PER PHASE	39		38		38		CONNECTED TOTAL kVA	116		
			CONNECTED AMPS PER PHASE	142		138		138		CONNECTED AVERAGE AMPS PER PHASE	140		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **1kVA @ 125% = 1kVA** ALL OTHER LOADS @100%= **90.0 kVA** DIVERSIFIED TOTAL kVA **122**
RECEPTACLES TOTAL MOTOR DEMAND= **31.3 kVA** AVERAGE AMPS PER **147**

Notes:

PANEL "1HA4"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	CONSTRUCTION TECHNOLOGY	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	SPARE	0.0	6.9					PWR: SDC-1	3	50	2
3	20	1	SPARE			0.0	6.9			--	--	--	4
5	20	1	SPARE					0.0	6.9	--	--	--	6
7	20	1	LTG: CONSTRUCTION TECHNOLOGY	1.2	0.0					SPARE	1	20	8
9						0.0				SPARE	1	20	10
11	20	1	SPARE					0.0	0.0	SPARE	1	20	12
13	20	1	SPARE	0.0	0.0					SPARE	1	20	14
15	20	1	SPARE			0.0	0.0			SPARE	1	20	16
17	20	1	SPARE					0.0	0.0	SPARE	1	20	18
19	20	1	SPARE	0.0	0.0					SPARE	1	20	20
21	20	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
TOTALS:			CONNECTED kVA PER PHASE	8		7		7		CONNECTED TOTAL kVA	22		
			CONNECTED AMPS PER PHASE	29		25		25		CONNECTED AVERAGE AMPS PER PHASE	26		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **1kVA @ 125% = 1kVA** ALL OTHER LOADS @100%= **20.8 kVA** DIVERSIFIED TOTAL kVA **22**
RECEPTACLES TOTAL MOTOR DEMAND= AVERAGE AMPS PER **27**

Notes:

PANEL "1ELA"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO MAIN ELECTRICAL C109	0.2	0.0					SPARE	1	20	2
3	20	1	CO			7.0	1.4			SPARE	1	20	4
5	20	1	CO ELECTRICAL A121					0.2	0.0	SPARE	1	20	6
7	20	2	ELEV. EQ. B117	0.5	0.0					SPARE	1	20	8
9	--	--	--			0.5	0.0			SPARE	1	20	10
11	20	1	CO Room B118-1, B117					0.5	0.0	SPARE	1	20	12
13	20	1	FPS	0.5	0.0					SPARE	1	20	14
15	20	1	CO ELECTRICAL B217			0.2	0.0			SPARE	1	20	16
17	20	1	PWR FIRE RISER ROOM GONG					0.0	0.0	SPARE	1	20	18
19	20	1	FCP A121	0.5	0.0					SPARE	1	20	20
21	20	1	FPS			0.5	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	CO FIRE RISER ROOM A130	0.2	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
TOTALS:			CONNECTED kVA PER PHASE	2		1		1		CONNECTED TOTAL kVA	4		
			CONNECTED AMPS PER PHASE	16		12		6		CONNECTED AVERAGE AMPS PER PHASE	11		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **0kVA @ 125% = 0kVA** ALL OTHER LOADS @100%= **1.0 kVA** DIVERSIFIED TOTAL kVA **2**
RECEPTACLES **1 kVA @100% =1 kVA** TOTAL MOTOR DEMAND= AVERAGE AMPS PER **7**

Notes:

PANEL "1HA3"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	400 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	60	3	PWR WELDING LAB-1 C107-1	10.0	10.0					PWR WELDING LAB-1 C107-1	3	60	2
3	--	--	--			10.0	10.0			--	--	--	4
5	--	--	--					10.0	10.0	--	--	--	6
7	60	3	PWR WELDING LAB-1 C107-1	10.0	5.0					PWR WELDING LAB-1 C107-1	3	30	8
9	--	--	--			10.0	5.0			--	--	--	10
11	--	--	--					10.0	5.0	--	--	--	12
13	30	3	PWR WELDING LAB-1 C107-1	5.0	5.0					PWR WELDING LAB-1 C107-1	3	30	14
15	--	--	--			5.0	5.0			--	--	--	16
17	--	--	--					5.0	5.0	--	--	--	18
19	30	3	PWR WELDING LAB-1 C107-1	5.0	5.0					PWR WELDING LAB-1 C107-1	3	30	20
21	--	--	--			5.0	5.0			--	--	--	22
23	--	--	--					5.0	5.0	--	--	--	24
25	30	3	PWR WELDING LAB-1 C107-1	5.0	5.0					PWR WELDING LAB-1 C107-1	3	30	26
27	--	--	--			5.0	5.0			--	--	--	28
29	--	--	--					5.0	5.0	--	--	--	30
31	30	3	PWR WELDING LAB-1 C107-1	5.0	5.0					PWR WELDING LAB-1 C107-1	3	30	32
33	--	--	--			5.0	5.0			--	--	--	34
35	--	--	--					5.0	5.0	--	--	--	36
37	30	3	PWR WELDING LAB-1 C107-1	5.0	5.0					PWR WELDING LAB-1 C107-1	3	30	38
39	--	--	--			5.0	5.0			--	--	--	40
41	--	--	--					5.0	5.0	--	--	--	42
43	30	3	PWR WELDING LAB-1 C107-1	5.0	1.3					PWR: DROP CORD	3	20	44
45	--	--	--			5.0	1.3			--	--	--	46
47	--	--	--					5.0	1.3	--	--	--	48
49	20	3	PWR: DROP CORD	1.3	1.3					PWR: DROP CORD PAC	3	20	50
51	--	--	--			1.3	1.3			--	--	--	52
53	--	--	--					1.3	1.3	--	--	--	54
55	20	3	PWR: DROP CORD	1.3	1.3					PWR: DROP CORD	3	20	56
57	--	--	--			1.3	1.3			--	--	--	58
59	--	--	--					1.3	1.3	--	--	--	60
61	20	3	PWR: DROP CORD	1.3	1.3					PWR: DROP CORD	3	20	62
63	--	--	--			1.3	1.3			--	--	--	64
65	--	--	--					1.3	1.3	--	--	--	66
67	20	3	PWR: DROP CORD	1.3	1.3					PWR: DROP CORD	3	20	68
69	--	--	--			1.3	1.3			--	--	--	70
71	--	--	--					1.3	1.3	--	--	--	72
73	20	1	SPARE	0.0	1.2					PWR: PAC	2	15	74
75	20	1	SPARE			0.0	1.2			--	--	--	76
77	20	1	SPARE					0.0	1.2	PWR: PAC	2	15	78
79	20	1	SPARE	0.0	1.2					--	--	--	80
81	20	1	SPARE			0.0	1.2			PWR: PAC	2	15	82
83	20	1	SPARE					0.0	1.2	--	--	--	84
TOTALS:			CONNECTED kVA PER PHASE	104		104		104		CONNECTED TOTAL kVA	313		
			CONNECTED AMPS PER PHASE	377		377		377		CONNECTED AVERAGE AMPS PER PHASE	377		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING ALL OTHER LOADS @100%= **313.5 kVA** DIVERSIFIED TOTAL kVA **313**
RECEPTACLES TOTAL MOTOR DEMAND= AVERAGE AMPS PER **377**

Notes:

PANEL "1HA5"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	SHELLED LAB C101	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1					0.0					SPARE	1	20	2
3	20	1	LTG: RECEIVING C102A			0.4	0.0			SPARE	1	20	4
5	20	1	SPARE					0.0	0.0	SPARE	1	20	6
7	20	1	SPARE	0.0	0.0					SPARE	1	20	8
9	20	1	SPARE			0.0	0.0			SPARE	1	20	10
11	20	1	SPARE					0.0	0.0	SPARE	1	20	12
13	20	1	SPARE	0.0	0.0					SPARE	1	20	14
15	20	1	SPARE			0.0	0.0			SPARE	1	20	16
17	20	1	SPARE					0.0	0.0	SPARE	1	20	18
19	20	1	SPARE	0.0	0.0					SPARE	1	20	20
21	20	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
TOTALS:			CONNECTED kVA PER PHASE	0		0		0		CONNECTED TOTAL kVA	0		
			CONNECTED AMPS PER PHASE	0		1		0		CONNECTED AVERAGE AMPS PER PHASE	0		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **0kVA @ 125% = 0kVA** ALL OTHER LOADS @100%= DIVERSIFIED TOTAL kVA **0**
RECEPTACLES TOTAL MOTOR DEMAND= AVERAGE AMPS PER **1**

Notes:

PANEL "1HA1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	SPARE	0.0	2.3					LTG: LAB C103	1	20	2
3	20	1	SPARE			0.0	2.1			LTG: LAB C103	1	20	4
5	20	1	SPARE					0.0	0.3	LTG: GRINDING C108	1	20	6
7	20	2	LTG - SITE POLES	3.0	2.3					LTG: WELDING OFFICES	1	20	8
9	--	--	--			3.0	2.9			LTG: CE & R LAB	1	20	10
11	20	1	LTG - MNT SIGNS					1.1	3.6	LTG: CE & R LAB	1	20	12
13	20	1	LTG - SITE BOLLARDS	0.5	2.9					LTG: CE & R LAB	1	20	14
15	20	1	LTG-SITE POLES			1.0	2.1			LIGHTING WELDING LAB-2 C107-2	1	20	16
17	20	1	LTG: SHELL SPACE					0.9	1.9	LIGHTING WELDING LAB-2 C107-2	1	20	18
19	0	1	SPARE	0.0	2.1					LIGHTING WELDING LAB-2 C107-2	1	20	20
21	20	1	LTG: EXTERIOR			2.2	0.1			LTG: CORRIDOR C100	1	20	22
23	0	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
TOTALS:			CONNECTED kVA PER PHASE	13		13		8		CONNECTED TOTAL kVA	34		
			CONNECTED AMPS PER PHASE	50		51		28		CONNECTED AVERAGE AMPS PER PHASE	41		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **34kVA @ 125% = 42kVA** ALL OTHER LOADS @100%= **0.4 kVA** DIVERSIFIED TOTAL kVA **43**
RECEPTACLES TOTAL MOTOR DEMAND= AVERAGE AMPS PER **51**

Notes:

PANEL "1HB1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	LTG: MULTIPURPOSE ROOM B103	3.5	0.0					SPARE	1	200	2
3	20	1	LTG: BOOKSTORE B110			1.7	0.0			SPARE	1	20	4
5	20	1	LTG: TESTING A102					2.1	0.0	SPARE	1	20	6
7	20	1	LTG: OFFICE A116	2.8	0.0					SPARE	1	20	8
9	20	1	LTG: INSTRUCTION TOILET A115			1.3	0.0			SPARE	1	20	10
11	20	1	LTG: CLASSROOM/STORAGE					1.6	0.0	SPARE	1	20	12
13	20	1	LTG: OFFICE	3.5	0.0					SPARE	1	20	14
15	20	1	LTG: CORRIDOR B100			1.4	0.0			SPARE	1	20	16
17	20	1	LTG: LOBBY B101					3.0	0.0	SPARE	1	20	18
19	20	1	LTG: LOBBY B101	2.2	0.0					SPARE	1	20	20
21	200	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
TOTALS:			CONNECTED kVA PER PHASE	12		4		7		CONNECTED TOTAL kVA	23		
			CONNECTED AMPS PER PHASE	45		16		26		CONNECTED AVERAGE AMPS PER PHASE	28		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **23kVA @ 125% = 29kVA** ALL OTHER LOADS @100%= DIVERSIFIED TOTAL kVA **29**
RECEPTACLES TOTAL MOTOR DEMAND= AVERAGE AMPS PER **35**

Notes:

01/18/2012

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :
1 ADDENDUM 2 02/10/2012

Panel Schedules

sheet:
EP606

100% Construction Documents

2/10/2012 12:12:38 PM C:\Users\rbk\Desktop\Revit Local Files\2012\20110211 Elec Central_rbk.rvt

PANEL "1LA1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	60	2	GENERATOR	4.0	0.2					CO SUPPLY ROOM C110	1	20	2
3	--	--	--			4.0	0.2			PWR	1	20	4
5	20	1	SPARE					0.0	0.5	PWR	1	20	6
7	20	1	SPARE	0.0	0.7					CO Room C124	1	20	8
9	20	1	CO DIESEL OFFICE C113			0.9	0.2			CO CE & R CLASSROOM C124	1	20	10
11	20	1	CO DIESEL CLASSROOM C112					0.4	0.8	PWR CE & R CLASSROOM C124	1	20	12
13	20	1	PWR	0.2	1.4					CE & R CLASSROOM C124	1	20	14
15	20	1	CO DIESEL CLASSROOM C112			0.7	0.4			PWR CE & R CLASSROOM C124	1	20	16
17	20	1	CO DIESEL CLASSROOM C112					0.7	0.4	CO COORIDOR C100B	1	20	18
19	20	1	PWR DIESEL CLASSROOM C112	0.4	0.8					PWR: DF COORIDOR C100B	1	20	20
21	30	2	PWR TOOL STORAGE C111			2.0	1.7			CO CE & R OFFICE C123	1	20	22
23	--	--	--					2.0	0.2	CO CE & R STORAGE C122	1	20	24
25	20	1	CO TOOL STORAGE C111	0.7	0.9					CO WELDING CLASSROOM C114	1	20	26
27	20	1	PWR: GDC-1 CONTROL CKT			1.2	0.4			PWR	1	20	28
29									0.5	CO WELDING CLASSROOM C114	1	20	30
31	20	1	LTG: TOILET C118/C120	0.2	0.8					PWR WELDING CLASSROOM C114	1	20	32
33	20	1	SPARE			0.0	0.7			CO WELDING CLASSROOM C114	1	20	34
35	20	1	SPARE					0.0	1.7	CO Room C115	1	20	36
37	15	2	PWR VRV-24-30	0.7	0.4					PWR Room C118, C120	1	20	38
39	--	--	--			0.7	0.4			PWR Room C117, C119	1	20	40
41	20	1	PWR HVAC CONTROLS					0.5	0.2	CO WL STORAGE C116	1	20	42
43	20	1	SPARE	0.0	0.5					CO CORRIDOR C100	1	20	44
45	20	1	SPARE			0.0	0.0			SPARE	1	20	46
47	20	1	SPARE					0.0	0.5	LTG: ENTRY UP/DOWN LIGHTS, SIGN	1	20	48
49	20	1	SPARE	0.0	0.0					SPARE	1	20	50
51	20	1	SPARE			0.0	0.0			SPARE	1	20	52
53	20	1	SPARE					0.0	0.0	SPARE	1	20	54
55	20	1	SPARE	0.0	0.0					SPARE	1	20	56
57	20	1	SPARE			0.0	0.0			SPARE	1	20	58
59	20	1	SPARE					0.0	0.0	SPARE	1	20	60
61	15	2	PWR AC-3	0.1	0.0					SPARE	1	20	62
63	--	--	--			0.1	0.0			SPARE	1	20	64
65	20	1	PWR HVAC CONTROLS					0.5	0.0	SPARE	1	20	66
67	15	2	PWR BS-8-10	0.3	0.0					SPARE	1	20	68
69	--	--	--			0.3	0.0			SPARE	1	20	70
71	20	1	SPARE					0.0	0.0	SPARE	1	20	72
73	20	1	SPARE	0.0	0.0					SPARE	1	20	74
75	20	1	SPARE			0.0	0.0			SPARE	1	20	76
77	20	1	SPARE					0.0	0.0	SPARE	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84

TOTALS:		A	B	C		
	CONNECTED kVA PER PHASE	12	14	9	CONNECTED TOTAL kVA	35
	CONNECTED AMPS PER PHASE	105	119	75	CONNECTED AVERAGE AMPS PER PHASE	97

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **1kVA @ 125% = 1kVA** ALL OTHER LOADS @100%= **23.6 kVA** DIVERSIFIED TOTAL kVA **35**

RECEPTACLES **11 kVA @97% =10 kVA** TOTAL MOTOR DEMAND= AVERAGE AMPS PER **96**

Notes:

PANEL "1LA2"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO CE & R LAB C121	0.2	0.2					PWR: DROP CORD CE & R LAB C121	1	20	2
3	20	1	CO CE & R LAB C121			0.2	2.3			PWR: DROP CORD CE & R LAB C121	3	30	4
5	20	3	MTR: OH DOOR CE & R LAB C121					1.0	2.3	--	--	--	6
7	--	--	--	1.0	2.3					--	--	--	8
9	--	--	--			1.0	0.4			CO CE & R LAB C121	1	20	10
11	20	1	CO					0.4	0.4	CO CE & R LAB C121	1	20	12
13	20	1	PWR	0.2	0.4					CO CE & R LAB C121	1	20	14
15	20	3	MTR: OH DOOR CE & R LAB C121			1.0	0.2			PWR: DROP CORD CE & R LAB C121	1	20	16
17	--	--	--					1.0	0.2	PWR: DROP CORD CE & R LAB C121	1	20	18
19	--	--	--	1.0	2.3					PWR: DROP CORD CE & R LAB C121	3	30	20
21	20	1	CO			0.4	2.3			--	--	--	22
23	20	1	PWR					0.2	2.3	--	--	--	24
25	20	3	MTR: OH DOOR CE & R LAB C121	1.0	0.2					PWR: DROP CORD CE & R LAB C121	1	20	26
27	--	--	--			1.0	1.0			MTR: OH DOOR CE & R LAB C121	3	20	28
29	--	--	--					1.0	1.0	--	--	--	30
31	20	1	PWR: DROP CORD	0.2	1.0					--	--	--	32
33	30	3	PWR: DROP CORD			2.3	0.4			CO	1	20	34
35	--	--	--					2.3	0.4	CO	1	20	36
37	--	--	--	2.3	0.2					CO	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
43	30	3	PWR CE & R LAB C121	2.3	0.2					PWR: DROP CORD CE & R LAB C121	1	20	44
45	--	--	--			2.3	0.4			CO	1	20	46
47	--	--	--					2.3	0.4	CO	1	20	48
49	20	1	CO CE & R LAB C121	0.4	0.2					PWR: DROP CORD CE & R LAB C121	1	20	50
51	20	1	CO			0.2	0.4			RECEPT	1	20	52
53	20	1	PWR: DROP CORD					0.2	0.4	RECEPT	1	20	54
55	20	1	PWR: DROP CORD	0.2	0.4					PWR	1	20	56
57	20	1	PWR: DROP CORD			0.2	1.0			MTR: OH DOOR CE & R LAB C121	3	20	58
59	20	1	CO CE & R LAB C121					0.4	1.0	--	--	--	60
61	20	1	PWR: DROP CORD	0.2	1.0					--	--	--	62
63	20	1	PWR: DROP CORD			0.2	0.2			PWR: DROP CORD CE & R LAB C121	1	20	64
65	20	1	PWR: DROP CORD					7.0	0.5	PWR: TSR-1	1	15	66
67	20	1	PWR: DROP CORD	0.2	0.5					PWR: TSR-2	1	15	68
69	20	1	PWR: DROP CORD			0.2	0.5			PWR: TSR-3	1	15	70
71	20	1	CO CE & R LAB C121					0.4	0.5	PWR: TSR-4	1	15	72
73	20	1	PWR IH-4	0.6	0.0					SPARE	1	20	74
75	20	1	PWR IH-5			0.6	0.0			SPARE	1	20	76
77	20	1	PWR IH-6					0.6	0.0	SPARE	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84

TOTALS:		A	B	C		
	CONNECTED kVA PER PHASE	19	19	26	CONNECTED TOTAL kVA	63
	CONNECTED AMPS PER PHASE	156	155	217	CONNECTED AVERAGE AMPS PER PHASE	176

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING ALL OTHER LOADS @100%= **41.9 kVA** DIVERSIFIED TOTAL kVA **64**

RECEPTACLES **6 kVA @100% =6 kVA** TOTAL MOTOR DEMAND= **15.8 kVA** AVERAGE AMPS PER **178**

Notes:

PANEL "1LA4"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	CONSTRUCTION TECHNOLOGY	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO CONSTRUCTION TECHNOLOGY CLASSROOM	0.5	1.8					CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	2
3	20	1	CO CONSTRUCTION TECHNOLOGY CLASSROOM			0.7	0.4			CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	4
5	20	1	CO CONSTRUCTION TECHNOLOGY CLASSROOM					0.7	0.7	CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	6
7	20	1	CT OFFICE C106	0.9	0.2					PWR: DROP CORD LAB C103	1	20	8
9	20	1	PWR CONSTRUCTION TECHNOLOGY			0.2	0.2			PWR: DROP CORD LAB C103	1	20	10
11	20	1	Room C104					0.7	0.2	PWR: DROP CORD LAB C103	1	20	12
13	20	1	CO CT STORAGE C105	0.2	0.2					PWR: DROP CORD LAB C103	1	20	14
15	20	1	PWR			0.2	0.2			CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	16
17	20	1	PWR: DROP CORD LAB C103					0.2	0.4	CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	18
19	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	20
21	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	22
23	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	24
25	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	26
27	20	3	MTR: OH DOOR LAB C103			1.0	0.4			CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	28
29	--	--	--					1.0	0.2	PWR: DROP CORD LAB C103	1	20	30
31	--	--	--	1.0	0.2					PWR: DROP CORD LAB C103	1	20	32
33	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	34
35	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	36
37	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	38
39	20	1	DRINKING FOUNTAIN CONSTRUCT LAB			0.8	0.7			PWR FC-2	1	15	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
43	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	44
45	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	46
47	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	48
49	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	50
51	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	52
53	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	54
55	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	56
57	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	58
59	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	60
61	20	1	PWR: DROP CORD LAB C103	0.2	0.2					PWR: DROP CORD LAB C103	1	20	62
63	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: DROP CORD LAB C103	1	20	64
65	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: DROP CORD LAB C103	1	20	66
67	20	1	PWR: DROP CORD LAB C103	0.2	0.4					CO CONSTRUCTION TECHNOLOGY LAB C103	1	20	68
69	20	1	PWR: DROP CORD LAB C103			0.2	0.2			PWR: MECH CONTROLS	1	20	70
71	20	1	PWR: DROP CORD LAB C103					0.2	0.2	PWR: VRV-32	2	15	72
73	20	1	CO CONSTRUCTION TECHNOLOGY LAB C103	0.4	0.2					--	--	--	74
75	20	1	CO CONSTRUCTION TECHNOLOGY LAB C103			0.4	0.1			PWR: BS-7	2	15	76
77	20	1	CO CONSTRUCTION TECHNOLOGY LAB C103					0.5	0.1	--	--	--	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84

TOTALS:		A	B	C		
	CONNECTED kVA PER PHASE	9	8	8	CONNECTED TOTAL kVA	24
	CONNECTED AMPS PER PHASE	75	66	63	CONNECTED AVERAGE AMPS PER PHASE	68

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING ALL OTHER LOADS @100%= **13.0 kVA** DIVERSIFIED TOTAL kVA **25**

RECEPTACLES **8 kVA @100% =8 kVA** TOTAL MOTOR DEMAND= **3.8 kVA** AVERAGE AMPS PER **70**

Notes:

PANEL "1LA3"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	MAIN ELECTRICAL C109	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	2
3	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	4
5	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	6
7	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	8
9	20	1	CO WELDING LAB C107			0.2	0.5			PWR: DROP CORD WELDING LAB C107	1	20	10
11	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	12
13	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	14
15	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	16
17	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	18
19	20	3	MTR: OH DOOR	1.0	0.5					PWR: DROP CORD WELDING LAB C107	1	20	20
21	--	--	--			1.0	0.5			PWR: DROP CORD WELDING LAB C107	1	20	22
23	--	--	--					1.0	0.5	PWR: DROP CORD WELDING LAB C107	1	20	24
25	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	26
27	20	1	CO GRINDING C108			0.8	0.5			PWR: DROP CORD WELDING LAB C107	1	20	28
29	20	1	CO GRINDING C108					0.8	0.5	PWR: DROP CORD WELDING LAB C107	1	20	30
31	20	1	CO GRINDING C108	0.8	0.5					PWR: DROP CORD WELDING LAB C107	1	20	32
33	20	1	CO GRINDING C108			0.8	0.5			PWR: DROP CORD WELDING LAB C107	1	20	34
35	20	1	CO GRINDING C108					0.8	0.5	PWR: DROP CORD WELDING LAB C107	1	20	36
37	20	1	CO GRINDING C108	0.8	0.5					PWR: DROP CORD WELDING LAB C107	1	20	38
39	20	1	CO GRINDING C108			0.8	0.5			PWR: DROP CORD WELDING LAB C107	1	20	40
41	20	1	CO GRINDING C108					0.8	0.5	PWR: DROP CORD WELDING LAB C107	1	20	42
43	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	44
45	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	46
47	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	48
49	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	50
51	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	52
53	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	54
55	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	56
57	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	58
59	20	1	CO WELDING LAB C107					0.4	0.5	PWR: DROP CORD WELDING LAB C107	1	20	60
61	20	1	CO WELDING LAB C107	0.4	0.5					PWR: DROP CORD WELDING LAB C107	1	20	62
63	20	1	CO WELDING LAB C107			0.4	0.5			PWR: DROP CORD WELDING LAB C107	1	20	64
65	20	1	CO WELDING LAB C107					0.4	3.2	MTR EF-1	1	20	66
67	20	1	CO WELDING LAB C107	0.4	0.0					SPARE	1	20	68
69	20	1	PWR HVAC CONTROLS			0.5	0.0			SPARE	1	20	70
71	20	1	PWR IH-1					0.6	0.0	SPARE	1	20	72
73	20	1	PWR IH-2	0.6	0.0					SPARE	1	20	74
75	20	1	PWR IH-3			0.6	0.0			SPARE	1	20	76
77	20	1	CO MEZZANINE STORAGE C208					0.2	0.0	SPARE	1	20	78
79	20	1	WELDING LAB DRINKING FOUNTAIN	0.8	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84

TOTALS:		A	B	C		
	CONNECTED kVA PER PHASE	13	12	15	CONNECTED TOTAL kVA	40
	CONNECTED AMPS PER PHASE	106	103	124	CONNECTED AVERAGE AMPS PER PHASE	111

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING ALL OTHER LOADS @100%= **24.6 kVA** DIVERSIFIED TOTAL kVA **41**

RECEPTACLES **8 kVA @100% =8 kVA** TOTAL MOTOR DEMAND= **7.0 kVA** AVERAGE AMPS PER **113**

Notes:

PANEL "1LA5"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	SHELLED LAB C101	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	RECEPT RECEIVING C102A	0.5	0.2					PWR: MECH CONTROLS	1	20	2
3	20	3	MOTOR: OH DOOR			1.0	0.2			PWR: VRV 33/34	2	20	4
5	--	--	--					1.0	0.2	--	--	--	6
7	--	--	--	1.0									8
9	20	1	PWR			0.2	0.0			SPARE	1	20	10
11	20	1	CO SHELLED LAB-1 C101-1					0.2	0.0	SPARE	1	20	12
13	15	1	PWR UH-1, UH-2	0.3	0.0					SPARE	1	20	14
15	20	1	SPARE			0.0	0.0			SPARE	1	20	16
17	20	1	SPARE					0.0	0.0	SPARE	1	20	18
19	20	1	SPARE	0.0	0.0					SPARE	1	20	20
21	20	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
43	20	1	SPARE	0.0	0.0					SPARE	1	20	44
45	20	1	SPARE			0.0	0.0			SPARE	1	20	46
47	20	1	SPARE					0.0	0.0	SPARE	1	20	48
49	20	1	SPARE	0.0	0.0					SPARE	1	20	50
51	20	1	SPARE			0.0	0.0			SPARE	1	20	52
53	20	1	SPARE					0.0	0.0	SPARE	1	20	54
55	20	1	SPARE	0.0	0.0					SPARE	1	20	56
57	20	1	SPARE			0.0	0.0			SPARE	1	20	58
59	20	1	SPARE					0.0	0.0	SPARE	1	20	60
61	20	1	SPARE	0.0	0.0					SPARE	1	20	62
63	20	1	SPARE			0.0	0.0			SPARE	1	20	64
65	20	1	SPARE					0.0	0.0	SPARE	1	20	66
67	20	1	SPARE	0.0	0.0					SPARE	1	20	68
69	20	1	SPARE			0.0	0.0			SPARE	1	20	70
71	20	1	SPARE					0.0	0.0	SPARE	1	20	72
73	20	1	SPARE	0.0	0.0					SPARE	1	20	74
75	20	1	SPARE			0.0	0.0			SPARE	1	20	76
77	20	1	SPARE					0.0	0.0	SPARE	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84

TOTALS:		A	B	C		
	CONNECTED kVA PER PHASE	2	1	1	CONNECTED TOTAL kVA	5
	CONNECTED AMPS PER PHASE	17	11	11	CONNECTED AVERAGE AMPS PER PHASE	13

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING ALL OTHER LOADS @100%= **0.9 kVA** DIVERSIFIED TOTAL kVA **6**

RECEPTACLES **1 kVA @100% =1 kVA** TOTAL MOTOR DEMAND= **3.8 kVA** AVERAGE AMPS PER **15**

Notes:

PROFESSIONAL ENGINEER — STATE OF UTAH

01/18/2012

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METHOD STUDIO INC.

925 south west temple
salt lake city, utah 84101
phone: (801) 532-4422

consultants:

SPECTRUM ENGINEERS

324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions:

1 ADDENDUM 2 02/10/2012

Panel Schedules

sheet: **EP607**

100% Construction Documents

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2/10/2012 12:12:42 PM

PANEL "1LB1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO CORRIDOR B100	0.5	0.4					CO WOMEN B105	1	20	2
3	20	1	MULTIPURPOSE ROOM B103			1.2	0.4			PWR	1	20	4
5	20	1	CO MULTIPURPOSE ROOM B103					0.5	0.4	CO CORRIDOR B100	1	20	6
7	20	1	CO MULTIPURPOSE ROOM B103	0.5	0.2					CO CORRIDOR B100	1	20	8
9	20	1	MULTIPURPOSE ROOM B103			1.0	0.2			CO CORRIDOR B100	1	20	10
11	20	1	Power MULTIPURPOSE ROOM B103					0.4	0.2	CO BOOKSTORE STORAGE B110A	1	20	12
13	20	1	CO MULTIPURPOSE ROOM B103	1.0	0.5					CO BOOKSTORE B110	1	20	14
15	20	1	PROJ.			0.2	1.0			PWR BOOKSTORE B110	1	20	16
17	20	1	CO MULTIPURPOSE ROOM B103					1.0	0.4	CO BOOKSTORE B110	1	20	18
19	20	1	PROJ	0.2	0.2					PWR: WALL MNT TV	1	20	20
21	20	1	PWR: PARTITION WALL			0.2	0.4			CO CAFETERIA B111	1	20	22
23	20	1	CO MULTIPURPOSE ROOM B103					0.5	1.1	CO OFFICE B115	1	20	24
25	20	1	CO STORAGE B104	0.7	1.0					CO MEDIA B112	1	20	26
27	20	1	DRINKING FTN.			0.8	1.0			CO MEDIA B112	1	20	28
29	20	1	PLACEMENT OFFICE B114					0.7	0.7	CO	1	20	30
31	20	1	CO	0.7	0.4					CO PLACEMENT B113	1	20	32
33	20	1	CO			0.4	0.9			CO PLACEMENT B113	1	20	34
35	20	1	CO					0.4	0.4	CO MEDIA B112	1	20	36
37	20	1	CO SS VP B126	1.4	0.4					CO	1	20	38
39	20	1	CO SPARE OFFICE B125			1.1	0.4			CO ENROLLMENT B120	1	20	40
41	20	1	CO					0.4	0.5	CO	1	20	42
43	20	1	CO	0.4	0.0					SPARE	1	20	44
45	20	1	CO ENROLLMENT B120			0.2	0.0			SPARE	1	20	46
47	20	1	CO					0.7	0.2	PWR: MECH CONTROLS	1	20	48
49	20	1	CO Room B120A, B124	0.5	0.2					PWR: MECH CONTROLS	1	20	50
51	20	1	CO Room B123			0.9	0.2			PWR: MECH CONTROLS	1	20	52
53	20	1	CO COUNSELOR B122					0.9	0.1	PWR: CUH-1	1	15	54
55	20	1	CO ENROLLMENT B120	0.9	0.7					PWR VRV-6,7,8,10,11,12,13	2	15	56
57	20	1	CO RECEPTION B119			0.7	0.7			--	--	--	58
59	20	1	CO ENROLMENT WAITING B121					1.5	0.6	PWR VRV-3,4,5,9,14,36	2	15	60
61	20	1	CO ENROLMENT WAITING B121	0.2	0.6					--	--	--	62
63	20	1	CO Room B119, B101-1			0.4	0.5			PWR HVAC CONTROLS	1	20	64
65	15	2	PWR BS-1,2,3,11,12,13					0.3	0.0	SPARE	1	20	66
67	--	--	--	0.3	0.0					SPARE	1	20	68
69	20	1	PWR HVAC CONTROLS			0.5	0.0			SPARE	1	20	70
71	15	2	PWR VRV-1A,1B, 2A,2B, 35A,35B					1.0	0.0	SPARE	1	20	72
73	--	--	--	1.0	0.0					SPARE	1	20	74
75	20	1	SPARE			0.0	0.0			SPARE	1	20	76
77	20	1	SPARE					0.0	0.0	SPARE	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84
TOTALS:			CONNECTED kVA PER PHASE	**13**		**13**		**13**		CONNECTED TOTAL kVA	**39**		
			CONNECTED AMPS PER PHASE	**107**		**109**		**106**		CONNECTED AVERAGE AMPS PER PHASE	**107**		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **12.3 kVA** — DIVERSIFIED TOTAL kVA **30**

RECEPTACLES **26 kVA @69% =18 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **85**

Notes:

PANEL "1LB2"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO TESTING A102	0.5	0.4					CO CORRIDOR B100	1	20	2
3	20	1	CO TESTING A102			0.4	0.9			CO;PWR: HEADEND	1	20	4
5	20	1	CO TESTING A102					0.5	0.4	CO;PWR: HEADEND	1	20	6
7	20	1	CO TESTING A102	0.5	0.4					CO;PWR: HEADEND	1	20	8
9	20	1	CO MEDICAL ASSISTING CLASSROOM A101			0.4	0.7			PWR	1	20	10
11	20	1	CO MEDICAL ASSISTING CLASSROOM A101					0.5	0.7	PWR	1	20	12
13	20	1	CO MEDICAL ASSISTING CLASSROOM A101	0.2	0.9					CO Room A128	1	20	14
15	20	1	CO MEDICAL ASSISTING CLASSROOM A101			2.4	0.9			CO;PWR: HEADEND	1	20	16
17	20	1	CO MEDICAL ASSISTING CLASSROOM A101					1.4	0.9	CO;PWR: HEADEND	1	20	18
19	20	1	PWR	0.2	0.9					CO;PWR: HEADEND	1	20	20
21	20	1	CO STORAGE A103			0.4	0.5			CO STORAGE A129	1	20	22
23	20	1	CO LAB RECEPTION A104A					0.7	0.4	PWR CORRIDOR C100A	1	20	24
25	20	1	CO MA Office A105	0.7	0.2					PWR INSTRUCTION TOILET A115	1	20	26
27	20	1	CO MEDICAL ASSISTING LAB A104			0.7	1.1			CO CPR A125	1	20	28
29	20	1	CO MEDICAL ASSISTING LAB A104					0.5	0.5	CO CPR A125	1	20	30
31	20	1	CO RN CLASSROOM A127	0.7	0.4					CO CPR A125	1	20	32
33	20	1	PWR MEDICAL ASSISTING LAB A104			0.5	0.2			CO CPR A125	1	20	34
35	20	1	CO MEDICAL ASSISTING LAB A104					0.4	0.5	Room A124, A123, A122	1	20	36
37	20	1	CO EXAM A107	0.9	0.7					Room A118, A100	1	20	38
39	30	3	PWR XRAY A108			2.5	0.5			CNA STORAGE A117	1	20	40
41	--	--	--					2.5	0.4	CO CONTROL A119	1	20	42
43	--	--	--	2.5	0.5					CO CONTROL A119	1	20	44
45	20	1	CO XRAY A108			0.2	0.4			PWR SIM ROOM A120	1	20	46
47	20	1	CO XRAY A108					0.2	0.7	CO SIM ROOM A120	1	20	48
49	20	1	CO SURGERY A106	0.4	0.2					CO LPN/CNA CLASSROOM A126	1	20	50
51	20	1	PWR SURGERY A106			0.5	0.5			LPN/CNA CLASSROOM A126	1	20	52
53	20	1	PWR TOILET A113					0.2	1.4	CO LPN/CNA CLASSROOM A126	1	20	54
55	30	2	PWR: DRYER	2.5	0.5					CO LPN/CNA CLASSROOM A126	1	20	56
57	--	--	--			2.5	1.4			CO LPN/CNA CLASSROOM A126	1	20	58
59	20	1	CO LAUNDRY A114					0.2	0.7	CO LPN/CNA CLASSROOM A126	1	20	60
61	20	1	CO LAUNDRY A114	0.2	0.8					PWR: PROJECTOR	1	20	62
63	20	1	CO LAUNDRY A114			0.2	0.7			CO RN CLASSROOM A127	1	20	64
65	20	1	CO CORRIDOR A100					0.8	0.8	PWR: PROJECTOR	1	20	66
67	20	1	CO OFFICE A110	0.9	1.4					CO RN CLASSROOM A127	1	20	68
69	20	1	CO OFFICE A111			0.9	0.5			CO	1	20	70
71	20	1	CO OFFICE A112					0.9	1.4	CO RN CLASSROOM A127	1	20	72
73	20	1	PWR	0.4	0.2					PWR RN CLASSROOM A127	1	20	74
75	20	1	OFFICE A116			0.9	0.0			LTG: TOILET A124	1	20	76
77	15	1	PWR FC-1					0.7	0.8	LTG: SURGERY A106	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84
TOTALS:			CONNECTED kVA PER PHASE	**18**		**21**		**19**		CONNECTED TOTAL kVA	**58**		
			CONNECTED AMPS PER PHASE	**150**		**176**		**162**		CONNECTED AVERAGE AMPS PER PHASE	**162**		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **1kVA @ 125% = 1kVA** — ALL OTHER LOADS @100%= **18.5 kVA** — DIVERSIFIED TOTAL kVA **44**

RECEPTACLES **39 kVA @63% =24 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **123**

Notes:

PANEL "1LB3"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	PWR: CORRIDOR A100	0.2	0.2					PWR: MECH CONTROLS	1	20	2
3							0.2			PWR: MECH CONTROLS	1	20	4
5	20	1	SPARE					0.0	0.2	PWR: MECH CONTROLS	1	20	6
7	20	1	SPARE	0.0	0.1					PWR: CUH-2	1	15	8
9	20	1	SPARE			0.0	0.2			MTR: EF-2	1	15	10
11	20	1	SPARE					0.0	0.0	POWER FSD B113	1	20	12
13	20	1	SPARE	0.0	0.1					PWR AC-1	2	15	14
15	20	1	SPARE			0.0	0.1			--	--	--	16
17	20	1	SPARE					0.0	0.0	SPARE	1	20	18
19	20	1	SPARE	0.0	0.0					SPARE	1	20	20
21	20	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
TOTALS:			CONNECTED kVA PER PHASE	**1**		**1**		**0**		CONNECTED TOTAL kVA	**1**		
			CONNECTED AMPS PER PHASE	**5**		**5**		**2**		CONNECTED AVERAGE AMPS PER PHASE	**4**		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **1.1 kVA** — DIVERSIFIED TOTAL kVA **1**

RECEPTACLES — TOTAL MOTOR DEMAND= **0.3 kVA** — AVERAGE AMPS PER **4**

Notes:

PANEL "1LBK"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	KITCHEN STORAGE B107	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	50	2	#K16 : RANGE CONVECTION OVEN	4.0	1.2					#K39 : SLICER	1	20	2
3	--	--	--			4.0	0.8			#K36 : WORK TABLE	1	20	4
5	20	2	#K29A : WALK—IN FREEZER REF: CONDENSER					0.7	1.4	#K7 : ICE MAKER	1	20	6
7	--	--	--	0.7	0.2					— : BASE COMPUTER	1	20	8
9	20	2	#K29B : WALK—IN FREEZER REF: BLOWER COILS			0.2	0.4			#K27 :WALK—IN FREEZER: LIGHTS AND HEATER	1	20	10
11	--	--	--					0.2	0.5	#K28B : WALK—IN COOLER REF: BLOWER COILS	1	20	12
13	20	2	#K29B : WALK—IN FREEZER REF: DEFROST HTR	0.9	0.5					#K27 : WALK—IN COOLER: LIGHTS AND HEATER	1	20	14
15	--	--	--			0.9	0.2			#K11 : WORK COUNTER	1	20	16
17	20	3	#K28A : WALK—IN COOLER REF: CONDENSER					1.4	0.6	#K14 :EXHAUST HOOD	1	20	18
19	--	--	--	1.4	0.1					#K15 :GAS SHUT OFF VALVE	1	20	20
21	--	--	--			1.4	1.8			#K14 : EXHAUST HOOD: HEAT SENSOR	1	20	22
23	20	2	#K25 : ROTARY TOASTER					1.4	1.1	#K16 : RANGE CONVECTION OVEN	1	20	24
25	--	--	--	1.4	1.0					#K17 : REFRIGERATED GRILL STAND	1	20	26
27	20	2	#K34 : HOT FOOD WARMER			1.7	0.1			#K19 : FLAT TOP GRIDDLE	1	20	28
29	--	--	--					1.7	0.1	#K21 : SALAMANDER BROILER	1	20	30
31	20	2	#K35 : PANI NI GRILL	3.4	0.1					#K22 : OPEN FACE GRIDDLE	1	20	32
33	--	--	--			3.4	0.2			#K23 : WORK COUNTER	1	20	34
35	50	2	#K45 : ESPRESSO MACHINE					1.4	1.1	#K32 : REFRIGERATED COUNTER	1	20	36
37	--	--	--	1.4	0.2					#K33 : WORK COUNTER	1	20	38
39	20	2	#K46 : SOUP WARMER			1.8	0.2			#E2 : POS PRINTER	1	20	40
41	--	--	--					1.8	0.4	#K54 : SODA AND ICE DISPENSER	1	20	42
43	30	2	#K52 : REFRIGERATED DISPLAY CABINET	1.3	0.5					#K44 : REFRIGERATED BASE	1	20	44
45	--	--	--			1.3	0.2			#K41 : WORK COUNTER	1	20	46
47	20	2	#K55 : ICE MAKER					3.8	0.2	#K41 : WORK COUNTER	1	20	48
49	--	--	--	3.8	0.2					#E2 : POS PRINTER	1	20	50
51	50	2	#K56 : COFFEE BREWER			0.9	0.9			#K51 : MERCHANDISING REFRIGERATOR	1	20	52
53	--	--	--					0.9	0.2	#E1 : POS REGISTER	1	20	54
55	20	2	#K24 : MICROWAVE OVEN	0.9	0.2					#MW1 : SERVICE COUNTER	1	20	56
57	--	--	--			0.9	1.2			#K54A : SODA SYSTEM RACK	1	20	58
59	20	1	LTG: KITCHEN STORAGE B107					0.7	1.7	#K57 : ICE TEA DISPENSER	1	20	60
61	20	1	SPARE	0.0	0.2					#MW2 : SERVICE COUNTER	1	20	62
63	20	1	SPARE			0.0	0.2			#MW2 : SERVICE COUNTER	1	20	64
65	20	1	SPARE					0.0	0.0	SPARE	1	20	66
67	20	1	SPARE	0.0	0.0					SPARE	1	20	68
69	20	1	SPARE			0.0	0.0			SPARE	1	20	70
71	20	1	SPARE					0.0	0.0	SPARE	1	20	72
TOTALS:			CONNECTED kVA PER PHASE	**24**		**23**		**21**		CONNECTED TOTAL kVA	**67**		
			CONNECTED AMPS PER PHASE	**198**		**190**		**177**		CONNECTED AVERAGE AMPS PER PHASE	**187**		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **1kVA @ 125% = 1kVA** — ALL OTHER LOADS @100%= **66.8 kVA** — DIVERSIFIED TOTAL kVA **68**

RECEPTACLES — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **188**

Notes:

PANEL "1QHB"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	100	3	PANELS "1QLB" and "2QLB"	20.4	0.0					SPARE	1	20	2
3	--	--	--			18.2	0.0			SPARE	1	20	4
5	--	--	--					15.8	0.0	SPARE	1	20	6
7	20	1	SPARE	0.0	0.0					SPARE	1	20	8
9	20	1	SPARE			0.0	0.0			SPARE	1	20	10
11	20	1	SPARE					0.0	0.0	SPARE	1	20	12
13	20	1	SPARE	0.0	0.0					SPARE	1	20	14
15	20	1	SPARE			0.0	0.0			SPARE	1	20	16
17	20	1	SPARE					0.0	0.0	SPARE	1	20	18
19	20	1	SPARE	0.0	0.0					SPARE	1	20	20
21	20	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39							0.0			SPARE	1	20	40
41									0.0	SPARE	1	20	42
TOTALS:			CONNECTED kVA PER PHASE	**20**		**18**		**16**		CONNECTED TOTAL kVA	**54**		
			CONNECTED AMPS PER PHASE	**75**		**67**		**57**		CONNECTED AVERAGE AMPS PER PHASE	**66**		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **50.6 kVA** — DIVERSIFIED TOTAL kVA **54**

RECEPTACLES **4 kVA @100% =4 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **65**

Notes:

PANEL "1QLB"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL A121	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	PWR; MINI FRIDGE	0.5	0.0					SPARE	1	20	2
3	20	1	SPARE			0.0	0.0			SPARE	1	20	4
5	20	1	SPARE					0.0	0.0	SPARE	1	20	6
7	20	1	SPARE	0.0	0.0					SPARE	1	20	8
9	20	1	SPARE			0.0	0.0			SPARE	1	20	10
11	20	1	SPARE					0.0	0.0	SPARE	1	20	12
13	20	1	SPARE	0.0	0.0					SPARE	1	20	14
15	20	1	SPARE			0.0	0.0			SPARE	1	20	16
17	20	1	SPARE					0.0	0.0	SPARE	1	20	18
19	20	1	SPARE	0.0	0.0					SPARE	1	20	20
21	20	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	20	1	SPARE			0.0	0.0			SPARE	1	20	40
41	20	1	SPARE					0.0	0.0	SPARE	1	20	42
TOTALS:			CONNECTED kVA PER PHASE	**20**		**18**		**16**		CONNECTED TOTAL kVA	**54**		
			CONNECTED AMPS PER PHASE	**174**		**155**		**131**		CONNECTED AVERAGE AMPS PER PHASE	**151**		

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **50.6 kVA** — DIVERSIFIED TOTAL kVA **54**

RECEPTACLES **4 kVA @100% =4 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **151**

Notes:

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01/18/2012

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METHOD STUDIO INC.

925 south west temple
salt lake city, utah 84101
phone: (801) 532-4422

consultants:

SPECTRUM ENGINEERS

324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions:

1	ADDENDUM 2	02/10/2012

Panel Schedules

sheet: EP608

100% Construction Documents

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2/10/2012 12:12:47 PM

PANEL "2LA1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	PUMP C202	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	POWER	0.2	0.9					PWR: ECSP-1	1	15	2
3	15	1	PWR: ECSP-1			0.9	0.2			CO ROOF	1	20	4
5	20	1	LTG AH-1 LIGHTS					0.5	0.5	PWR: ECSP-2	1	15	6
7	20	1	POWER	0.2	0.5					LTG AH-3 LIGHTS	1	20	8
9	20	1	LTG AH-2 LIGHTS			0.5	0.5			MTR: ECSP-2	1	15	10
11	20	1	CO ROOF					0.5	1.2	MTR: EF-15	1	15	12
13	15	1	MTR: EF-13	0.4	0.4					CO ROOF	1	20	14
15	20	1	PWR: ECSP-2			0.5	0.5			LTG AH-4 LIGHTS	1	20	16
17	20	1	MTR: P-5					1.2	1.2	MTR: P-7	1	20	18
19	20	1	MTR: EF-16	1.2	1.2					MTR: P-6	1	20	20
21	20	1	MTR: P-8			1.2	1.2			MTR: RCP-1	1	20	22
23	20	1	PWR: UH-3					0.1	0.9	PWR: CFS-1	1	20	24
25	20	1	PWR: AD-1	1.2	0.3					MTR: RCP-2	1	20	26
27	20	1	MTR: RCP-3			0.3	1.8			PWR: WH-2	1	20	28
29	20	1	PWR: WH-1					1.8	1.8	PWR: WS-1	1	20	30
31	20	1	RECEPT PUMP C202	0.7	0.5					RECEPT BOILER C203	1	20	32
33	20	1	ATC			1.2	0.5			CO Room C205, C206-2	1	20	34
35	20	1	CO Room C206-1					0.4	0.0	SPARE	1	20	36
37					0.0					SPARE	1	20	38
39	30	2	PWR: CU-3			2.3	0.0			SPARE	1	20	40
41	--	--	--					2.3	0.0	SPARE	1	20	42

TOTALS: CONNECTED kVA PER PHASE **8** **12** **12** CONNECTED TOTAL kVA **32**
CONNECTED AMPS PER PHASE **64** **102** **108** CONNECTED AVERAGE AMPS PER PHASE **88**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **12.7 kVA** — DIVERSIFIED TOTAL kVA **31**
RECEPTACLES **1 kVA @100% =1 kVA** — TOTAL MOTOR DEMAND= **13.0 kVA** — AVERAGE AMPS PER **87**

Notes:

PANEL "2HB1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL B217	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	LTG: OFFICES	3.0	1.7					LTG: RECEPTION / WAITING-2 B223-2	1	20	2
3	20	1	LTG: CANOPY			0.3	1.2			LTG: LOBBY B101	1	20	4
5	20	1	LTG: RECORDS/OFFICE/LAVS					1.7	1.6	LTG: CORRIDOR A200	1	20	6
7	20	1	LTG: USU CLASSROOM A204	2.2	2.1					LTG: LOBBY/STAIR	1	20	8
9	20	1	LTG: USU CLASSROOM A205			1.6	0.9			LTG: LOBBY B101	1	20	10
11	20	1	LTG: CDL CLASSROOM C201					1.8	0.0	SPARE	1	20	12
13	20	1	LTG: BRD RM/BREAK/EXCERCISE	4.0	0.0					SPARE	1	20	14
15	20	1	SPARE			0.0	0.0			SPARE	1	20	16
17	20	1	SPARE					0.0	0.0	SPARE	1	20	18
19	20	1	SPARE	0.0	0.0					SPARE	1	20	20
21	20	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	30	3	PWR: HA-1A	3.9	3.9					PWR: HP-2B	3	30	26
27	--	--	--			3.9	3.9			--	--	--	28
29	--	--	--					3.9	3.9	--	--	--	30
31	30	3	PWR: HP-1B	3.9	3.9					PWR: HP-2A	3	30	32
33	--	--	--			3.9	3.9			--	--	--	34
35	--	--	--					3.9	3.9	--	--	--	36
37	30	3	PWR: HP-1C	3.9	0.4					PWR: EF-1	3	15	38
39	--	--	--			3.9	0.4			--	--	--	40
41	--	--	--					3.9	0.4	--	--	--	42

TOTALS: CONNECTED kVA PER PHASE **33** **24** **25** CONNECTED TOTAL kVA **81**
CONNECTED AMPS PER PHASE **119** **86** **91** CONNECTED AVERAGE AMPS PER PHASE **98**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **22kVA @ 125% = 28kVA** — ALL OTHER LOADS @100%= **58.1 kVA** — DIVERSIFIED TOTAL kVA **87**
RECEPTACLES — TOTAL MOTOR DEMAND= **1.5 kVA** — AVERAGE AMPS PER **105**

Notes:

PANEL "2LB2"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL B217	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO Room A201	0.7	0.7					Room A204	1	20	2
3	20	1	CO BT LAB A201			0.2	0.5			CO ROOF	1	20	4
5	20	1	CO BT LAB A201					0.4	0.5	CO USU CLASSROOM A205	1	20	6
7	20	1	CO TESTING A202	0.4	0.4					CO USU CLASSROOM A205	1	20	8
9	20	1	CO TESTING A202			0.4	0.4			PWR USU CLASSROOM A205	1	20	10
11	20	1	CO TESTING A202					0.4	0.8	CO USU CLASSROOM A205	1	20	12
13	20	1	CO TESTING A202	0.2	0.7					CO USU CLASSROOM A205	1	20	14
15	20	1	CO Room A201			0.5	0.4			CO USU CLASSROOM A205	1	20	16
17	20	1	Power BT LAB A201					0.5	0.4	CO USU CLASSROOM A205	1	20	18
19	20	1	Power BT LAB A201	0.5	0.4					CO USU CLASSROOM A205	1	20	20
21	20	1	Power BT LAB A201			0.5	0.4			CO USU CLASSROOM A205	1	20	22
23	20	1	Power BT LAB A201					0.5	0.7	CO IT OFFICE A206	1	20	24
25	20	1	Power BT LAB A201	0.5	0.5					CO CORRIDOR A200	1	20	26
27	20	1	Power BT LAB A201			0.5	0.5			CO Room A207	1	20	28
29	20	1	CO BT LAB A201					0.4	0.4	CO IT CLASSROOM A207	1	20	30
31	20	1	CO BT LAB A201	1.0	0.4					CO IT CLASSROOM A207	1	20	32
33	20	1	CO USU CLASSROOM A204			0.7	0.4			CO IT CLASSROOM A207	1	20	34
35	20	1	CO USU CLASSROOM A204					0.8	0.4	CO IT CLASSROOM A207	1	20	36
37	20	1	CO USU CLASSROOM A204	0.4	0.4					CO IT CLASSROOM A207	1	20	38
39	20	1	CO USU CLASSROOM A204			0.4	0.4			CO IT CLASSROOM A207	1	20	40
41	20	1	CO USU CLASSROOM A204					0.4	0.5	CO IT CLASSROOM A207	1	20	42
43	20	1	CO USU CLASSROOM A204	0.4	0.4					CO IT CLASSROOM A207	1	20	44
45	20	1	CO USU CLASSROOM A204			0.4	0.5			CO IT TESTING A208	1	20	46
47	20	1	CO USU CLASSROOM A204					0.4	0.4	CO IT TESTING A208	1	20	48
49	20	1	Power USU CLASSROOM A204	0.5	0.9					CO IT TESTING A208	1	20	50
51	20	1	PWR HVAC CONTROLS			0.5	0.4			PWR Room A209	1	20	52
53	20	1	CO BT OFFICE A203					0.9	0.5	PWR IT LAB A209	1	20	54
55	20	1	CO CORRIDOR A200	0.5	0.7					CO IT ADMIN A211	1	20	56
57	20	1	CO IT CLASSROOM A207			0.8	1.3			CO IT ASSISTANT A212	1	20	58
59	20	1	Room A205					0.5	0.8	PWR	1	20	60
61	20	1	CO BT LAB A201	0.4	0.5					CO CDL CLASSROOM C201	1	20	62
63	30	2	PWR: CU-4			2.3	0.4			CO CDL CLASSROOM C201	1	20	64
65	--	--	--					2.3	0.4	CO CDL CLASSROOM C201	1	20	66
67	20	1	PWR HVAC CONTROLS A205	0.5	0.7					CO CDL CLASSROOM C201	1	20	68
69	20	1	PWR HVAC CONTROLS			0.5	0.7			CO CDL CLASSROOM C201	1	20	70
71	20	1	PWR HVAC CONTROLS					0.5	0.4	PWR CDL CLASSROOM C201	1	20	72
73	20	1	SPARE	0.0	0.4					CO	1	20	74
75	20	1	SPARE			0.0	0.9			CO IT ADMIN A211	1	20	76
77	20	1	SPARE					0.0	0.7	PWR IT LAB A209	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	20	84

TOTALS: CONNECTED kVA PER PHASE **13** **15** **15** CONNECTED TOTAL kVA **43**
CONNECTED AMPS PER PHASE **109** **126** **125** CONNECTED AVERAGE AMPS PER PHASE **118**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **11.5 kVA** — DIVERSIFIED TOTAL kVA **32**
RECEPTACLES **31 kVA @66% =20 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **90**

Notes:

PANEL "2LB3"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL B217	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	15	1	MTR: EF-5	1.2	0.0					SPARE	1	20	2
3	15	1	PWR: EF-4			0.4	0.0			SPARE	1	20	4
5	20	1	SPARE					0.0	0.0	SPARE	1	20	6
7	20	1	SPARE	0.0	0.0					SPARE	1	20	8
9	20	1	SPARE			0.0	0.0			SPARE	1	20	10
11	20	1	SPARE					0.0	0.0	SPARE	1	20	12
13	20	1	SPARE	0.0	0.0					SPARE	1	20	14
15	20	1	SPARE			0.0	0.0			SPARE	1	20	16
17	20	1	SPARE					0.0	0.0	SPARE	1	20	18
19	20	1	SPARE	0.0	0.0					SPARE	1	20	20
21	20	1	SPARE			0.0	0.0			SPARE	1	20	22
23	20	1	SPARE					0.0	0.0	SPARE	1	20	24
25	20	1	SPARE	0.0	0.0					SPARE	1	20	26
27	20	1	SPARE			0.0	0.0			SPARE	1	20	28
29	20	1	SPARE					0.0	0.0	SPARE	1	20	30
31	20	1	SPARE	0.0	0.0					SPARE	1	20	32
33	20	1	SPARE			0.0	0.0			SPARE	1	20	34
35	20	1	SPARE					0.0	0.0	SPARE	1	20	36
37	20	1	SPARE	0.0	0.0					SPARE	1	20	38
39	30	2	PWR: CU-1			2.3	0.0			SPARE	1	20	40
41	--	--	--					2.3	0.0	SPARE	1	20	42

TOTALS: CONNECTED kVA PER PHASE **1** **3** **2** CONNECTED TOTAL kVA **6**
CONNECTED AMPS PER PHASE **10** **24** **20** CONNECTED AVERAGE AMPS PER PHASE **17**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **4.6 kVA** — DIVERSIFIED TOTAL kVA **6**
RECEPTACLES — TOTAL MOTOR DEMAND= **1.9 kVA** — AVERAGE AMPS PER **18**

Notes:

PANEL "2LB1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL B217	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO CORRIDOR A200	1.0	0.4					CO Room B221, B222	1	20	2
3	20	1	CO RECEPTION / WAITING-2 B223-2			0.7	1.0			PWR Room B219	1	20	4
5	20	1	CO PRESIDENT ASSISTANT B213					0.7	1.3	CO OPEN OFFICE 2-3 PPL B216	1	20	6
7	20	1	CO	1.1	0.5					CO Room B220, B200, A200, B218	1	20	8
9	20	1	CO EXECUTIVE CONFERENCE ROOM B211			0.7	0.9			CO Room B215, B216, B200	1	20	10
11	20	1	CO EXECUTIVE CONFERENCE ROOM B211					0.5	0.2	CO MARKETING / OFFICE B214	1	20	12
13	20	1	PWR EXECUTIVE CONFERENCE ROOM B211	0.5	0.7					CO CORRIDOR A200	1	20	14
15	20	1	CO HUMAN RESOURCES B210			0.7	0.2			CO	1	20	16
17	20	1	CO Room B209					0.7	0.2	CO	1	20	18
19	20	1	CO Room B208	0.7	0.7					CO MARKETING / OFFICE B214	1	20	20
21	20	1	CO Room B207			0.7	0.4			CO MARKETING / OFFICE B214	1	20	22
23	20	1	CO Room B206					0.7	0.4	CO MARKETING / OFFICE B214	1	20	24
25	20	1	CO DIRECTOR B205	0.7	0.2					CO KITCHEN B225	1	20	26
27	20	1	CO VP INSTRUCTION OFFICE B204			1.2	0.2			PWR KITCHEN B225	1	20	28
29	20	1	CO ASSISTANT B203					0.7	0.2	PWR KITCHEN B225	1	20	30
31	20	1	CO CURRICULUM DEVELOPER B202	0.9	1.2					PWR KITCHEN B225	1	20	32
33	20	1	CO DIRECTOR B201			0.7	1.0			KITCHEN B225	1	20	34
35	20	1	CO Room B223-2, B223-1					1.0	0.2	CO KITCHEN B225	1	20	36
37	20	1	CO RECEPTION / WAITING-2 B223-2	1.0	0.2					CO KITCHEN B225	1	20	38
39	20	1	CO Room B223-1, B223-2			0.5	0.2			CO KITCHEN B225	1	20	40
41	20	1	CO Room B224					0.9	0.2	CO KITCHEN B225	1	20	42
43	20	1	CO WELLNESS B233	0.7	0.4					KITCHEN B225	1	20	44
45	20	1	Room B224			0.9	0.4			CO FACULTY/ BREAK B227	1	20	46
47	20	1	CO BOARDROOM B224					0.5	0.5	CO Room B227, B226	1	20	48
49	20	1	PWR	0.8	0.4					CO WORKROOM B226	1	20	50
51	20	1	CO FACULTY/ BREAK B227			0.5	0.4			CO WORKROOM B226	1	20	52
53	20	1	PWR FACULTY/ BREAK B227					0.8	1.0	PWR WORKROOM B226	1	20	54
55	20	1	CO EXERCISE B232	0.2	0.4					CO Room B228, B229	1	20	56
57	20	1	PWR EXERCISE B232			0.8	0.4			CO	1	20	58
59	20	1	CO EXERCISE B232					0.2	1.6	PWR: CU-6	2	20	60
61	20	1	PWR: DF Room B232	1.0	1.6					--	--	--	62
63	20	1	CO EXERCISE B232			0.2	1.2			PWR: EF-14	1	20	64
65	20	1	PWR EXERCISE B232					1.0	0.6	FSD B219	1	20	66
67	20	1	PWR EXERCISE B232	1.0	0.0					POWER FSD B106	1	20	68
69	20	1	PWR EXERCISE B232			1.0	0.5			CO ROOF	1	20	70
71	15	2	PWR AC-2					0.1	0.4	CO ROOF	1	20	72
73	--	--	--	0.1	0.1					PWR AC-4	2	15	74
75	15	2	PWR VRV-15-23			1.0	0.1			--	--	--	76
77	--	--	--					1.0	0.5	PWR HVAC CONTROLS	1	20	78
79	15	2	PWR BS-4-6	0.2	0.5					PWR HVAC CONTROLS	1	20	80
81	--	--	--			0.2	0.5			PWR HVAC CONTROLS	1	20	82
83	20	1	PWR HVAC CONTROLS					1.0	0.5	PWR HVAC CONTROLS	1	20	84

TOTALS: CONNECTED kVA PER PHASE **17** **17** **17** CONNECTED TOTAL kVA **52**
CONNECTED AMPS PER PHASE **142** **143** **145** CONNECTED AVERAGE AMPS PER PHASE **143**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING **0kVA @ Not Computed = 0kVA** — ALL OTHER LOADS @100%= **20.3 kVA** — DIVERSIFIED TOTAL kVA **43**
RECEPTACLES **29 kVA @67% =19 kVA** — TOTAL MOTOR DEMAND= **1.5 kVA** — AVERAGE AMPS PER **118**

Notes:

PANEL "2QLB"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELECTRICAL B217	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR

CKT NO	AMP	POLE	DESCRIPTION	A		B		C		DESCRIPTION	POLE	AMP	CKT NO
1	20	1	CO KITCHEN B225	1.0	1.5					PWR SERVER / IT STORAGE A210	2	30	2
3	20	1	CO KITCHEN B225			1.0	1.5			--	--	--	4
5	20	1	CO KITCHEN B225					1.0	1.2	PWR SERVER / IT STORAGE A210	1	20	6
7	20	1	CO SERVER / IT STORAGE A210	0.7	1.5					PWR SERVER / IT STORAGE A210	2	30	8
9	20	1	CO SERVER / IT STORAGE A210			0.4	1.5			--	--	--	10
11	20	1	CO SERVER / IT STORAGE A210					0.4	1.2	PWR SERVER / IT STORAGE A210	1	20	12
13	20	1	CO SERVER / IT STORAGE A210	0.7	1.5					PWR SERVER / IT STORAGE A210	2	30	14
15	20	1	CO SERVER / IT STORAGE A210			0.9	1.5			--	--	--	16
17	20	1	CO IT WORKROOM C204					0.7	1.2	PWR SERVER / IT STORAGE A210	1	20	18
19	20	1	PWR IT WORKROOM C204	1.2	1.5					PWR SERVER / IT STORAGE A210	2	30	20
21	30	2	PWR IT WORKROOM C204			1.5	1.5			--	--	--	22
23	--	--	--					1.5	1.2	PWR SERVER / IT STORAGE A210	1	20	24
25	20	1	PWR IT WORKROOM C204	1.2	1.5					PWR SERVER / IT STORAGE A210	2	30	26
27	30	2	PWR IT WORKROOM C204			1.5	1.5			--	--	--	28
29	--	--	--					1.5	1.2	PWR SERVER / IT STORAGE A210	1	20	30
31	30	2	PWR: CU-5	2.3	1.5					PWR SERVER / IT STORAGE A210	2	30	32
33	--	--	--			2.3	1.5			--	--	--	34
35	30	2	PWR: CU-6					2.2	1.2	PWR SERVER / IT STORAGE A210	1	20	36
37	--	--	--	2.2	1.5					PWR SERVER / IT STORAGE A210	2	30	38
39	15	2	PWR AC-5			0.1	1.5			--	--	--	40
41	--	--	--					0.1	1.2	PWR SERVER / IT STORAGE A210	1	20	42
43	15	2	PWR AC-6	0.1	0.0					SPARE	1	20	44
45	--	--	--			0.1	0.0			SPARE	1	20	46
47	20	1	SPARE					0.0	0.0	SPARE	1	20	48
49	20	1	SPARE	0.0	0.0					SPARE	1	20	50
51	20	1	SPARE			0.0	0.0			SPARE	1	20	52
53	20	1	SPARE					0.0	0.0	SPARE	1	20	54
55	20	1	SPARE	0.0	0.0					SPARE	1	20	56
57	20	1	SPARE			0.0	0.0			SPARE	1	20	58
59	20	1	SPARE					0.0	0.0	SPARE	1	20	60
61	20	1	SPARE	0.0	0.0					SPARE	1	20	62
63	20	1	SPARE			0.0	0.0			SPARE	1	20	64
65	20	1	SPARE					0.0	0.0	SPARE	1	20	66
67	20	1	SPARE	0.0	0.0					SPARE	1	20	68
69	20	1	SPARE			0.0	0.0			SPARE	1	20	70
71	20	1	SPARE					0.0	0.0	SPARE	1	20	72
73	20	1	SPARE	0.0	0.0					SPARE	1	20	74
75	20	1	SPARE			0.0	0.0			SPARE	1	20	76
77	20	1	SPARE					0.0	0.0	SPARE	1	20	78
79	20	1	SPARE	0.0	0.0					SPARE	1	20	80
81	20	1	SPARE			0.0	0.0			SPARE	1	20	82
83	20	1	SPARE					0.0	0.0	SPARE	1	2	84

TOTALS: CONNECTED kVA PER PHASE **20** **18** **16** CONNECTED TOTAL kVA **54**
CONNECTED AMPS PER PHASE **169** **155** **131** CONNECTED AVERAGE AMPS PER PHASE **150**

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING — ALL OTHER LOADS @100%= **50.1 kVA** — DIVERSIFIED TOTAL kVA **54**
RECEPTACLES **4 kVA @100% =4 kVA** — TOTAL MOTOR DEMAND= — AVERAGE AMPS PER **150**

Notes:

LICENSED PROFESSIONAL ENGINEER
No. 179621
RALPH B. KORBER
STATE OF UTAH
01/18/2012

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925 south west temple
salt lake city, utah 84101
phone: (801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions:
1 ADDENDUM 2 02/10/2012

Panel Schedules

sheet: **EP609**

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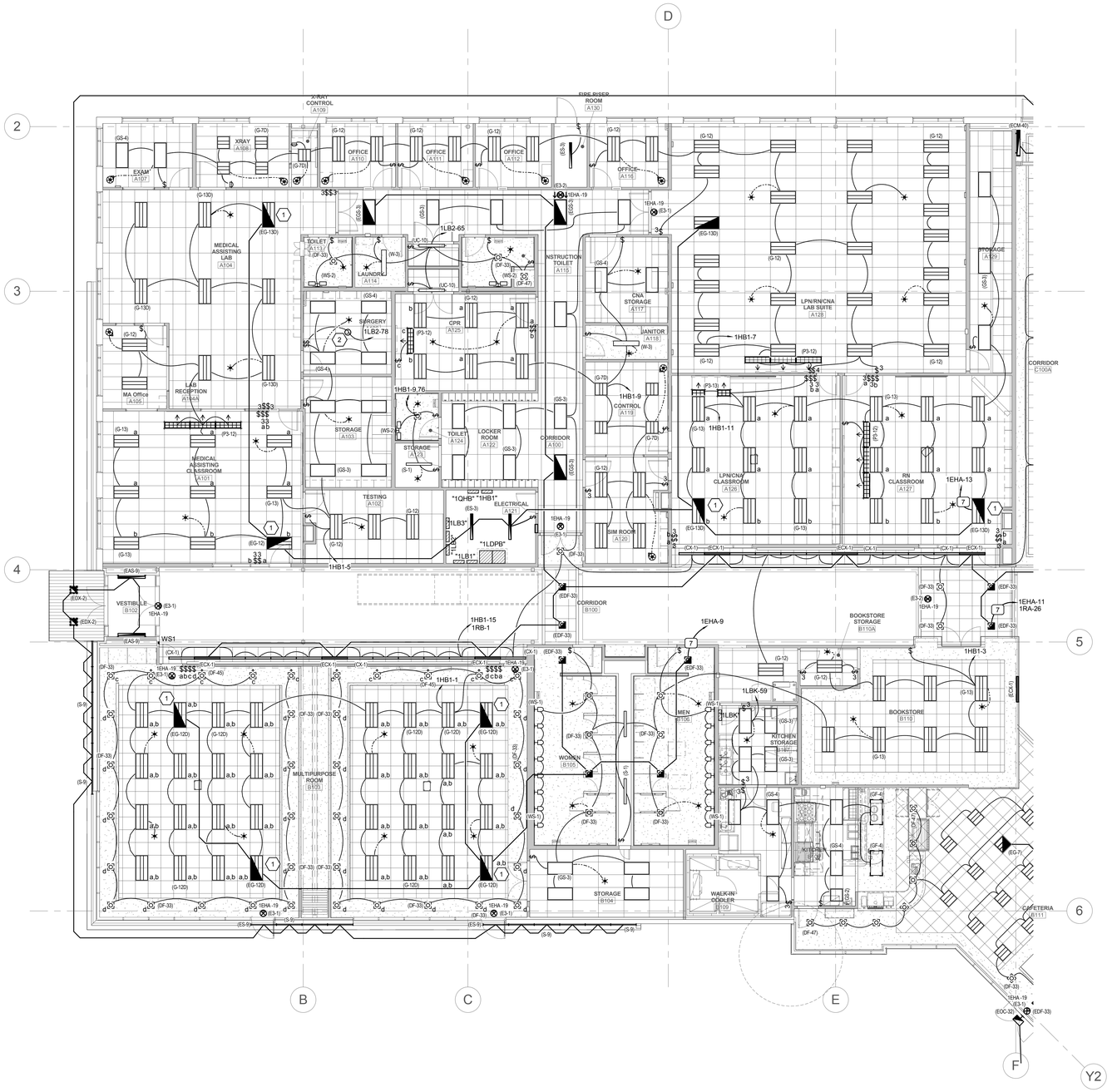


1 LEVEL 1 LIGHTING PLAN - AREA '1'

SCALE: 1/8" = 1'-0"

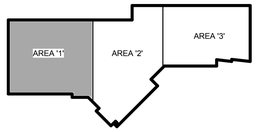
PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

1. INSTALL LIGHT FIXTURES INLINE AND CENTERED.
2. COORDINAT ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT
3. ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES
4. CIRCUIT EXIT SIGNS ON SEPERATE LIGHTING CIRCUITWT
5. COVE/CLOUD LIGHTING SHALL HAVE EVEN ILLUMINATION THE ENTIRE LENGHT OF THE COVE/CLOUD. PROVIDE THE NUMBER OF FIXTURES REQUIRED TO EVENLY ILLUMINATE THE COVE/CLOUD. STAGGAR COVE/CLOUD LIGHITNG OR PROVIDE DIFFERENT LENGTHS OF THE FIXTURE TO ILLUMINATE THE ENTIRE COVE/CLOUD.
6. LOCATE ALL OCCUPANCY SENSORS MINIMUM OF 6'-0" FROM SUPPLY AIR DIFFUSERS AND 3'-0" FROM RETURN AIR DIFFUSERS.
7. UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING FIXTURES DIRECTLY TO CIRCUIT CIRCUIT BREAKER FOR ALWAYS ON OPERATION.

SHEET KEYNOTES

1. BASE BID: PROVIDE CIRCUIT FROM EMERGENCY PANEL TO EMERGENCY LIGHTING FIXTURE AND CAP FOR FUTURE USE. ADD ALTERNATE #7: DELETE BATTERY PACK FROM FIXTURE, ADD TYPE ET TRANSFER DEVICE AND CIRCUIT PER DETAIL 5/EL501.
2. PROVIDE JUNCTION BOX IN CEILING FOR OWNER FURNISHED SURGICAL LIGHT.



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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :
1 ADDENDUM 2 02/10/2012

Level 1 Lighting Plan - Area '1'

sheet:
EL111

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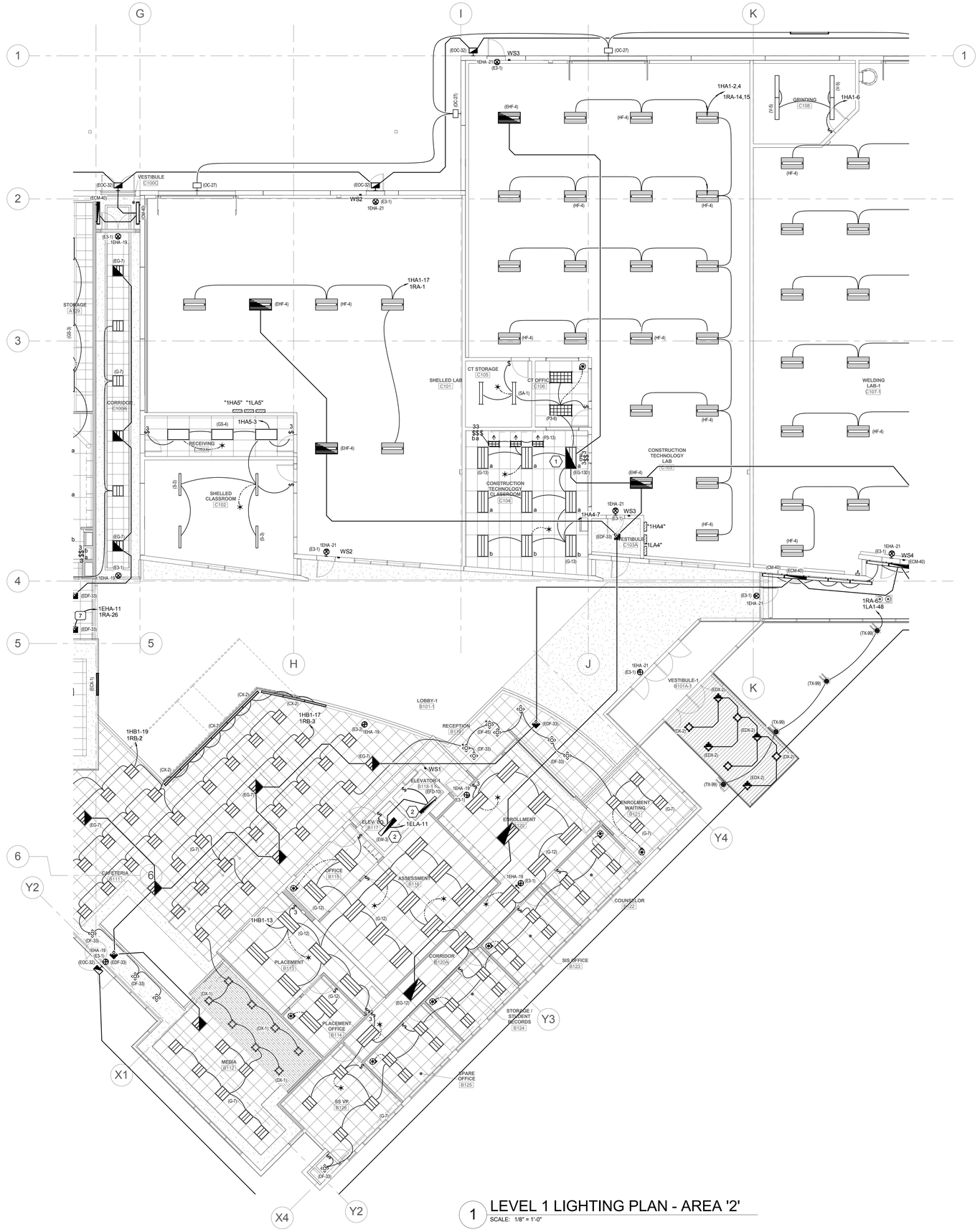
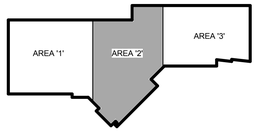


1 LEVEL 1 LIGHTING PLAN - AREA '2'
SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

1. INSTALL LIGHT FIXTURES INLINE AND CENTERED.
2. COORDINAT ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT
3. ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES
4. CIRCUIT EXIT SIGNS ON SEPERATE LIGHTING CIRCUITWT
5. COVE/CLOUD LIGHTING SHALL HAVE EVEN ILLUMINATION THE ENTIRE LENGHT OF THE COVE/CLOUD. PROVIDE THE NUMBER OF FIXTURES REQUIRED TO EVENLY ILLUMINATE THE COVE/CLOUD. STAGGAR COVE/CLOUD LIGHITNG OR PROVIDE DIFFERENT LENGTHS OF THE FIXTURE TO ILLUMINATE THE ENTIRE COVE/CLOUD.
6. LOCATE ALL OCCUPANCY SENSORS MINIMUM OF 6'-0" FROM SUPPLY AIR DIFFUSERS AND 3'-0" FROM RETURN AIR DIFFUSERS.
7. UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING FIXTURES DIRECTLY TO CIRCUIT CIRCUIT BREAKER FOR ALWAYS ON OPERATION.

SHEET KEYNOTES

1. BASE BID: PROVIDE CIRCUIT FROM EMERGENCY PANEL TO EMERGENCY LIGHTING FIXTURE AND CAP FOR FUTURE USE. ADD ALTERNATE #7: DELETE BATTERY PACK FROM FIXTURE, ADD TYPE ET TRANSFER DEVICE AND CIRCUIT PER DETAIL 5/EL501.
2. CIRCUIT ELEVATOR EQUIPMENT ROOM AND PIT LIGHT WITH EQUIPMENT ROOM AND PIT RECEPTACLES.

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
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project#: 11.0420
date: 1/20/2012

revisions :
1 ADDENDUM 2 02/10/2012

Level 1 Lighting Plan - Area '2'

sheet:
EL112

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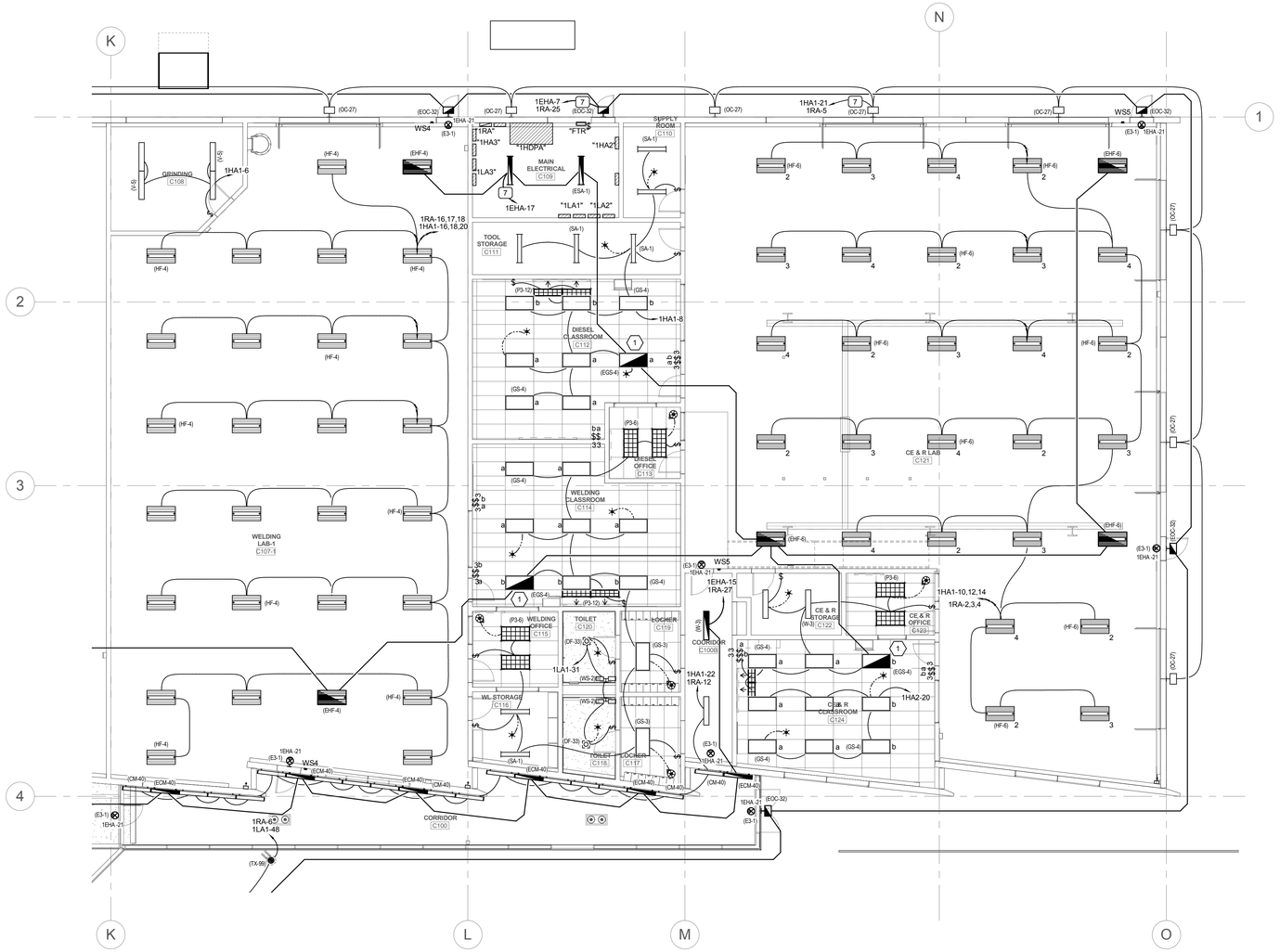
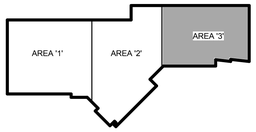


1 LEVEL 1 LIGHTING PLAN - AREA '3'

SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

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2. COORDINAT ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT
3. ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES
4. CIRCUIT EXIT SIGNS ON SEPERATE LIGHTING CIRCUITWT
5. COVE/CLOUD LIGHTING SHALL HAVE EVEN ILLUMINATION THE ENTIRE LENGHT OF THE COVE/CLOUD. PROVIDE THE NUMBER OF FIXTURES REQUIRED TO EVENLY ILLUMINATE THE COVE/CLOUD. STAGGAR COVE/CLOUD LIGHITNG OR PROVIDE DIFFERENT LENGTHS OF THE FIXTURE TO ILLUMINATE THE ENTIRE COVE/CLOUD.
6. LOCATE ALL OCCUPANCY SENSORS MINIMUM OF 6'-0" FROM SUPPLY AIR DIFFUSERS AND 3'-0" FROM RETURN AIR DIFFUSERS.
7. UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING FIXTURES DIRECTLY TO CIRCUIT CIRCUIT BREAKER FOR ALWAYS ON OPERATION.

SHEET KEYNOTES

1. BASE BID: PROVIDE CIRCUIT FROM EMERGENCY PANEL TO EMERGENCY LIGHTING FIXTURE AND CAP FOR FUTURE USE. ADD ALTERNATE #7: DELETE BATTERY PACK FROM FIXTURE, ADD TYPE ET TRANSFER DEVICE AND CIRCUIT PER DETAIL 5/EL501.

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :
1 ADDENDUM 2 02/10/2012

Level 1 Lighting Plan - Area '3'

sheet:
EL113

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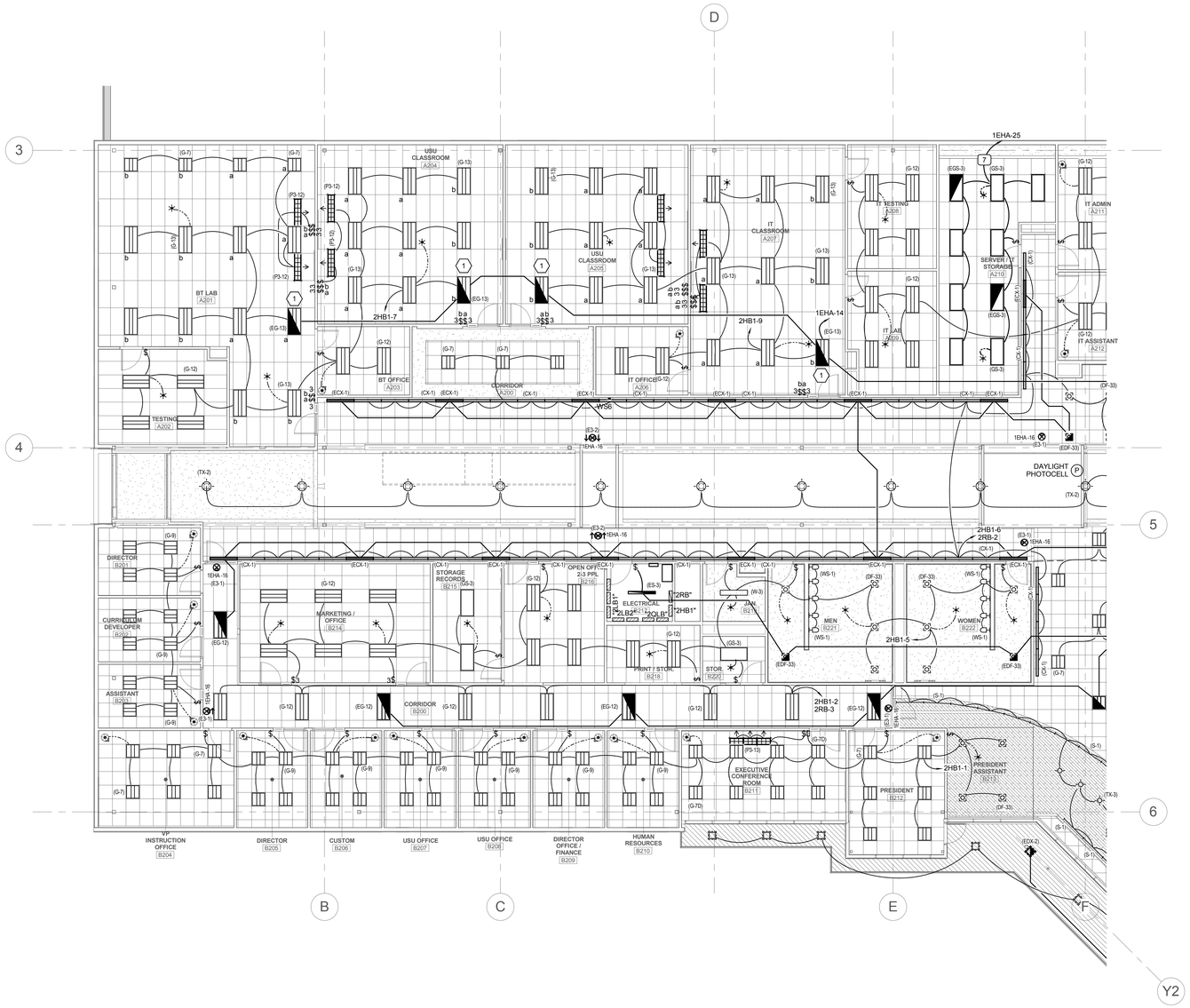

1 LEVEL 2 LIGHTING PLAN - AREA '1'

SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

1. INSTALL LIGHT FIXTURES INLINE AND CENTERED.
2. COORDINAT ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT
3. ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES
4. CIRCUIT EXIT SIGNS ON SEPERATE LIGHTING CIRCUITWT
5. COVE/CLOUD LIGHTING SHALL HAVE EVEN ILLUMINATION THE ENTIRE LENGHT OF THE COVE/CLOUD. PROVIDE THE NUMBER OF FIXTURES REQUIRED TO EVENLY ILLUMINATE THE COVE/CLOUD. STAGGAR COVE/CLOUD LIGHITNG OR PROVIDE DIFFERENT LENGTHS OF THE FIXTURE TO ILLUMINATE THE ENTIRE COVE/CLOUD.
6. LOCATE ALL OCCUPANCY SENSORS MINIMUM OF 6'-0" FROM SUPPLY AIR DIFFUSERS AND 3'-0" FROM RETURN AIR DIFFUSERS.
7. UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING FIXTURES DIRECTLY TO CIRCUIT CIRCUIT BREAKER FOR ALWAYS ON OPERATION.

SHEET KEYNOTES

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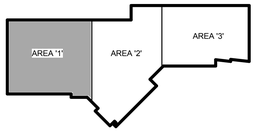

REGISTERED PROFESSIONAL ENGINEER No. 7162 STATE OF UTAH

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project:
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88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

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1 ADDENDUM 2 02/10/2012

Level 2 Lighting Plan - Area '1'

sheet: EL121

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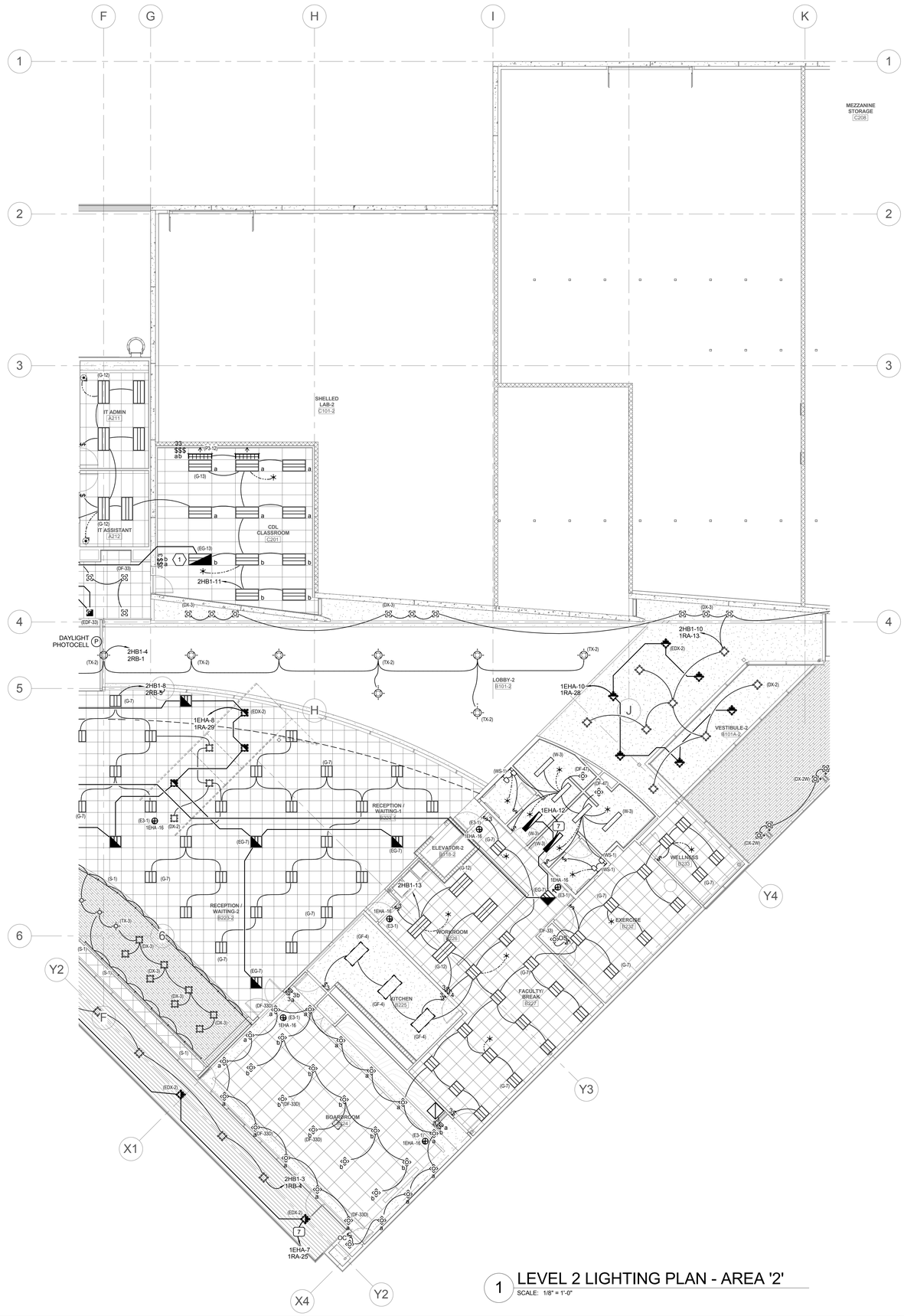
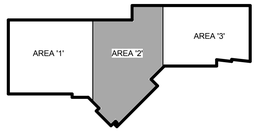


1 LEVEL 2 LIGHTING PLAN - AREA '2'

SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

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5. COVE/CLOUD LIGHTING SHALL HAVE EVEN ILLUMINATION THE ENTIRE LENGHT OF THE COVE/CLOUD. PROVIDE THE NUMBER OF FIXTURES REQUIRED TO EVENLY ILLUMINATE THE COVE/CLOUD. STAGGAR COVE/CLOUD LIGHITNG OR PROVIDE DIFFERENT LENGTHS OF THE FIXTURE TO ILLUMINATE THE ENTIRE COVE/CLOUD.
6. LOCATE ALL OCCUPANCY SENSORS MINIMUM OF 6'-0" FROM SUPPLY AIR DIFFUSERS AND 3'-0" FROM RETURN AIR DIFFUSERS.
7. UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING FIXTURES DIRECTLY TO CIRCUIT CIRCUIT BREAKER FOR ALWAYS ON OPERATION.

SHEET KEYNOTES

1. BASE BID: PROVIDE CIRCUIT FROM EMERGENCY PANEL TO EMERGENCY LIGHTING FIXTURE AND CAP FOR FUTURE USE. ADD ALTERNATE #7: DELETE BATTERY PACK FROM FIXTURE, ADD TYPE ET TRANSFER DEVICE AND CIRCUIT PER DETAIL 5/EL501.

01/18/2012

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :

1	ADDENDUM 2	02/10/2012

Level 2 Lighting Plan - Area '2'

sheet:
EL122

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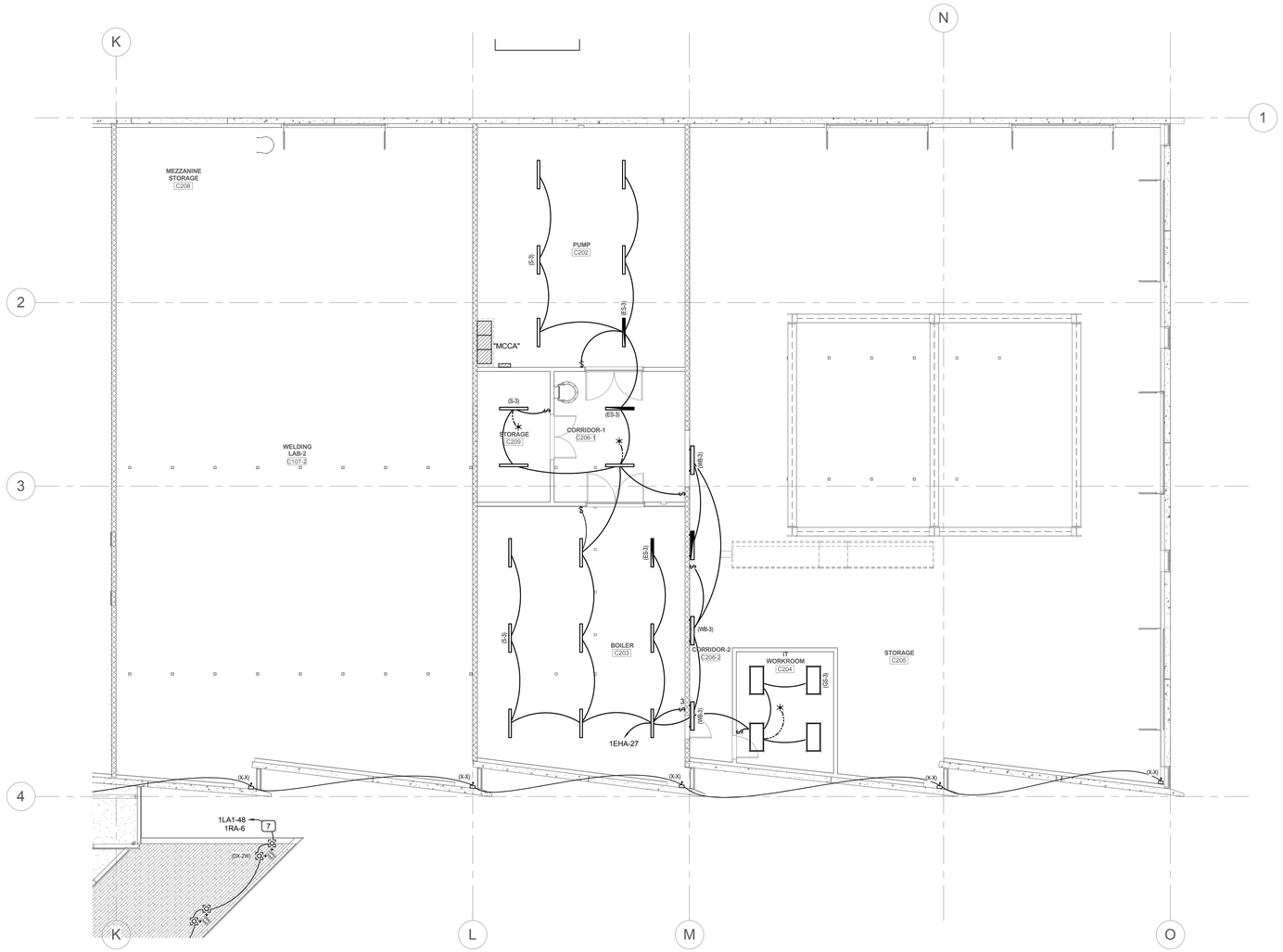
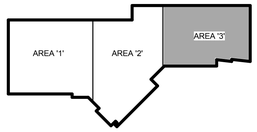


1 LEVEL 2 LIGHTING PLAN - AREA '3'

SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

1. INSTALL LIGHT FIXTURES INLINE AND CENTERED.
2. COORDINAT ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT
3. ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES
4. CIRCUIT EXIT SIGNS ON SEPERATE LIGHTING CIRCUITWT
5. COVE/CLOUD LIGHTING SHALL HAVE EVEN ILLUMINATION THE ENTIRE LENGHT OF THE COVE/CLOUD. PROVIDE THE NUMBER OF FIXTURES REQUIRED TO EVENLY ILLUMINATE THE COVE/CLOUD. STAGGAR COVE/CLOUD LIGHITNG OR PROVIDE DIFFERENT LENGTHS OF THE FIXTURE TO ILLUMINATE THE ENTIRE COVE/CLOUD.
6. LOCATE ALL OCCUPANCY SENSORS MINIMUM OF 6'-0" FROM SUPPLY AIR DIFFUSERS AND 3'-0" FROM RETURN AIR DIFFUSERS.
7. UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING FIXTURES DIRECTLY TO CIRCUIT CIRCUIT BREAKER FOR ALWAYS ON OPERATION.

SHEET KEYNOTES

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :

1	ADDENDUM 2	02/10/2012

Level 2 Lighting Plan - Area '3'

sheet:
EL123

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LIGHTING RELAY PANEL RP CONTROL SCHEDULE		TOOELE APPLIED TECH CENTER
CONTROL GROUP	CONTROL GROUP NAME	CONTROL DESCRIPTION
WS-X	WALL SWITCH OVERRIDE 1	TURNS INDICATED RELAYS ON FOR MANUAL 1 HOUR OVERRIDE OF UNOCCUPIED MODE
TC1	INDOOR TIME CLOCK 1	TIME CLOCK TURNS INDICATED RELAYS ON DURING OCCUPIED HOURS OF 6 AM TO 11 PM MONDAY THRU SATURDAY
TC2	OUTDOOR TIME CLOCK 1	TIME CLOCK TURNS INDICATED RELAYS ON 30 MINUTES BEFORE SUNSET TO MIDNIGHT AND 5:30AM TO SUNRISE
TC3	OUTDOOR TIME CLOCK 2	TIME CLOCK TURNS INDICATED RELAYS ON 30 MINUTES BEFORE SUNSET TO 30 MINUTES AFTER SUNRISE
IPC	INDOOR PHOTOCELL	PHOTOCELL TURNS INDICATED RELAYS OFF WHEN SPECIFIED FOOTCANDLE LEVEL IS MEASURED
OPC	EXTERIOR PHOTOCELL	PHOTOCELL TURNS INDICATED RELAYS ON FROM DUSK TO DAWN

LIGHTING RELAY PANEL 1RA SCHEDULE					TOOELE APPLIED TECHNICAL CENTER				
DATE									
RELAY	ROOM	DESCRIPTION	CIRCUIT	LOAD	CONTROL GROUP				
NUMBER			NUMBER	(WATTS)	WS	TC	OCC SENS	IPC	OPC
RL 1	SHELLED LAB	HIGH BAY LIGHTING	1HA1-17	900	WS-2	TC1			
RL 2	LAB C121	HIGH BAY LIGHTING	1HA1-10	2800	WS-5	TC1			
RL 3	LAB C121	HIGH BAY LIGHTING	1HA1-12	1100	WS-5	TC1			
RL 4	LAB C121	HIGH BAY LIGHTING	1HA1-14	2800	WS-5	TC1			
RL 5	EXTERIOR	MH WALL PACKS	1HA1-21	800		TC2			
RL 6	MAIN ENTRY	UP/DOWN LIGHTS, SIGN	1LA1-48	500		TC2			
RL 7	PARKING LOT	PARKING LIGHTS ALL NIGHT	1HA1-7	3000		TC3			
RL 8	PARKING LOT	PARKING LIGHTS (MIDNIGHT OFF)	1HA1-9	3000		TC2			
RL 9	PARKING LOT	PARKING LIGHTS ALL NIGHT	1HA1-15	1000		TC3			
RL 10	EXTERIOR	WALKWAY BOLLARDS	1HA1-13	2100		TC2			
RL 11	EXTERIOR	MONUMENT SIGNS	1HA1-11			TC3			
RL 12	1ST FLOOR N.	CORRIDOR LIGHTING	1HA1-		WS-1	TC1			
RL 13	2ND FLOOR N.	CORRIDOR LIGHTING	1HA1-		WS-1	TC-1			
RL 14	LAB C103	HIGH BAY LIGHTING	1HA1-2	2300	WS-3	TC1			
RL 15	LAB C103	HIGH BAY LIGHTING	1HA1-4	2100	WS-3	TC1			
RL 16	LAB C107	HIGH BAY LIGHTING	1HA1-16	2100	WS-4	TC1			
RL 17	LAB C107	HIGH BAY LIGHTING	1HA1-18	1800	WS-4	TC1			
RL 18	LAB C107	HIGH BAY LIGHTING	1HA1-20	2100	WS-4	TC1			
RL 19		SPARE RELAY							
RL 20		SPARE RELAY							
RL 21		SPARE RELAY							
RL 22		SPARE RELAY							
RL 23		SPARE RELAY							
RL 24		SPARE RELAY							
		EMERGENCY - NORMAL POWER BARRIER							
RL 25	EXTERIOR	WALL PACKS, VESTIBULES	1EHA-7	1100		TC3			
RL 26	1ST FLOOR S.	CORRIDOR EM LIGHTING	1EHA-11	700	WS-1	TC1			
RL 27	1ST FLOOR N.	CORRIDOR EM LIGHTING	1EHA-15	600	WS-1	TC1			
RL 28	2ND FLR N	ENTRY LIGHTING	1EHA-10	200	WS-1	TC1			
RL 29	2ND FLR S	CORRIDOR LIGHTING	1EHA-8	700	WS-6	TC1			
RL 30		SPARE RELAY							
RL 31		SPARE RELAY							
RL 32		SPARE RELAY							

NOTES: 1. TIME CLOCK SCHEDULES ARE INDEPENDENT FOR EACH RELAY.
2. EMERGENCY RELAYS TURN LIGHTS ON WHEN POWER IS LOST

LEGEND: WS - WALL SWITCH OVERRIDE
TC - TIME CLOCK
OCC SENS - OCCUPANCY SENSOR
IPC - INDOOR PHOTOCELL
OPC - OUTDOOR PHOTOCELL

LIGHTING RELAY PANEL 1RB SCHEDULE					TOOELE APPLIED TECHNICAL CENTER				
DATE									
RELAY	ROOM	DESCRIPTION	CIRCUIT	LOAD	CONTROL GROUP				
NUMBER			NUMBER	(WATTS)	WS	TC	OCC SENS	IPC	OPC
RL 1	1ST FLOOR S.	SOUTH COORIDOR LIGHTING	1HB1-15	1400	WS-1	TC1			
RL 2	1ST FLOOR E.	EAST COMMON AREA LIGHTING	1HB1-19	2300	WS-1	TC1			
RL 3	1ST FLOOR E.	EAST COMMON AREA LIGHTING	1HB1-17	2400	WS-1	TC2			
RL 4		SPARE RELAY							
RL 5		SPARE RELAY							
RL 6		SPARE RELAY							
RL 7		SPARE RELAY							
RL 8		SPARE RELAY							
RL 9		SPARE RELAY							
RL 10		SPARE RELAY							
RL 11		SPARE RELAY							
RL 12		SPARE RELAY							

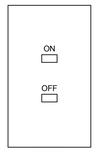
NOTES: 1. TIME CLOCK SCHEDULES ARE INDEPENDENT FOR EACH RELAY.
2. EMERGENCY RELAYS TURN LIGHTS ON WHEN POWER IS LOST

LEGEND: WS - WALL SWITCH OVERRIDE
TC - TIME CLOCK
OCC SENS - OCCUPANCY SENSOR
IPC - INDOOR PHOTOCELL
OPC - OUTDOOR PHOTOCELL

LIGHTING RELAY PANEL 2RB SCHEDULE					TOOELE APPLIED TECHNICAL CENTER				
DATE									
RELAY	ROOM	DESCRIPTION	CIRCUIT	LOAD	CONTROL GROUP				
NUMBER			NUMBER	(WATTS)	WS	TC	OCC SENS	IPC	OPC
RL 1	2ND FLOOR S	CORRIDOR LIGHTING	2HB1-4		WS-1	TC1			
RL 2	2ND FLOOR S	CORRIDOR LIGHTING	2HB1-6		WS-6	TC1			
RL 3	2ND FLOOR S	CORRIDOR LIGHTING	2HB1-2		WS-6	TC1			
RL 4	2ND FLR EXT	EXTERIOR LIGHTING	2HB1-3			TC2			
RL 5	2ND FLOOR E	CORRIDOR LIGHTING	2HB1-8		WS-6	TC1			
RL 6		SPARE RELAY							
RL 7		SPARE RELAY							
RL 8		SPARE RELAY							
RL 9		SPARE RELAY							
RL 10		SPARE RELAY							
RL 11		SPARE RELAY							
RL 12		SPARE RELAY							

NOTES: 1. TIME CLOCK SCHEDULES ARE INDEPENDENT FOR EACH RELAY.
2. EMERGENCY RELAYS TURN LIGHTS ON WHEN POWER IS LOST

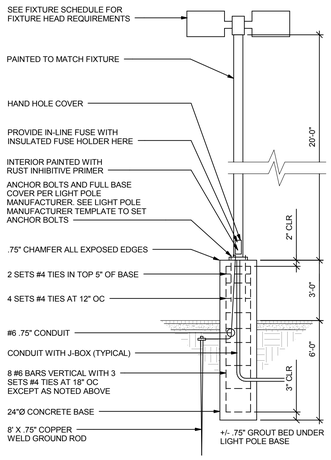
LEGEND: WS - WALL SWITCH OVERRIDE
TC - TIME CLOCK
OCC SENS - OCCUPANCY SENSOR
IPC - INDOOR PHOTOCELL
OPC - OUTDOOR PHOTOCELL



TYPICAL WALL STATION
ON/OFF OVERRIDE

6 TYPICAL WALL STATION

SCALE: NTS

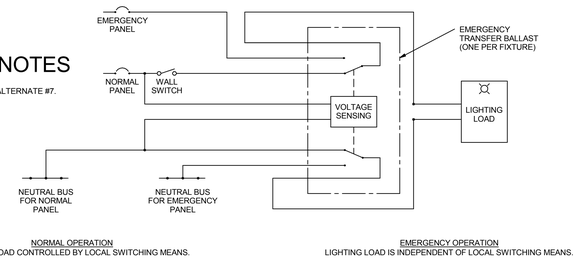


4 PARKING LOT LIGHT POLE BASE DETAIL (ZB-11d)

SCALE: NTS

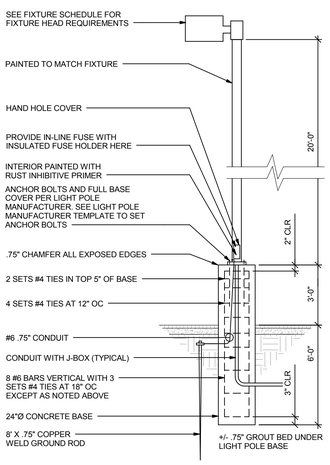
DETAIL KEYNOTES

1. DETAIL IS PART OF BID ALTERNATE #7.



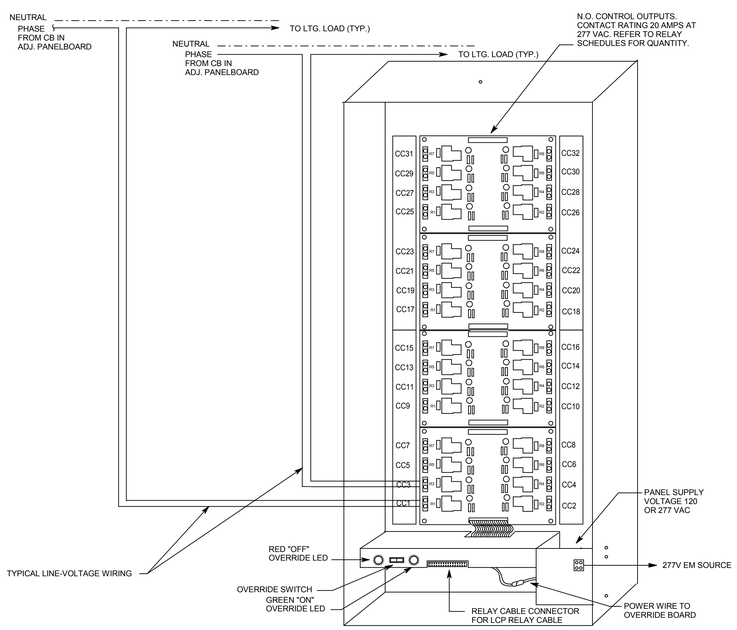
5 EMERGENCY LIGHTING TRANSFER DEVICE DETAIL

SCALE: NTS



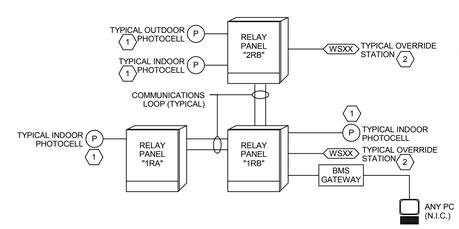
1 PARKING LOT LIGHT POLE BASE DETAIL (ZB-11)

SCALE: NTS



2 TYPICAL RELAY PANEL WIRING DETAIL

SCALE: NTS



DETAIL KEYNOTES

1. TYPICAL INDOOR OR OUTDOOR PHOTOCELL. REFER TO PLANS FOR ACTUAL QUANTITIES.
2. TYPICAL WALLSTATION FOR LOCAL CONTROL OR BUILDING COMMON AREAS OVERRIDE CONTROL REFER TO PLANS FOR ACTUAL QUANTITIES.

3 LIGHTING RELAY CONTROL SCHEMATIC

SCALE: NTS

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project#: 11.0420
date: 1/20/2012

revisions :
1 ADDENDUM 2 02/10/2012
2

Lighting details and schematics

sheet:
EL501

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LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH SECTIONS 260923, 260936, 290943, 265100, AND 265600 OF THE SPECIFICATIONS.
REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277) BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.

SYMBOL	MARK	FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	CATALOG NUMBER	NOTES
	AS	INDIRECT LIGHT: ASYMMETRIC OPTICS, ALUMINUM REFLECTOR; WHITE PAINTED FINISH; MOUNTING AS SHOWN; REMOTE BALLASTS (FLUORESCENT - PROGRAMMED RAPID START ELECTRONIC, METAL HALIDE - PULSE START HPF MAGNETIC), UNLESS INDICATED INTEGRAL BALLAST (IB); ONE BALLAST PER FIXTURE WHERE POSSIBLE.						
	AS-9	4' LINEAR FLUORESCENT,	1-F54T5HO	65W	277/120V	INSIGHT	CF5HO-SMS-120/277EP.S.-SF	
		WALL MOUNT. INTEGRAL	RE835			ELLIPTIPAR	F115-A155-S-02-X-0B-0	
		BALLAST				RAMBUSCH	PAL-422-54T5HOFL-RC-IY-IB-120/277V (IB)	
						SPI	EXR 0873 WH PROGRAM START	
						LAM	ZAA48-WL-I-154T5HO-SGW-V-DT	
						WINONA	P1-SS-1F54T5HO-120/277V-SS1-SGW-PB-STD	
	CM	STEEL LINEAR FIXTURES: LENGTHS AND CONFIGURATIONS SHOWN ON THE DRAWINGS; LAMPS FOUR FOOT WHERE POSSIBLE; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; INTERNAL CONCEALED FASTENERS; COLOR AS NOTED AND/OR APPROVED BY ARCHITECT; ORIENT FIXTURE ACCORDING TO ARCHITECTS/ ENGINEER'S INSTRUCTIONS. SWIVEL STEM MOUNT UNLESS						
	CM-40	6"X 6 1/2" PROFILE,	2-F32T8	60W/4'	277/120V	LITECONTROL	W-ID-66N24T8SGL-CWM-PST8-120/277	
		WALL MOUNT, OPEN UP,	RE835			MARK	66W-DI-232T8-ET8PRS-UNIV-K19-MW-4'	
		WHITE LENS DOWN, INDIRECT/DIRECT,				NEORAY	88/2T8-S22-4-120/277PSEB	
		4' MODULE.				PRUDENTIAL	P 60 D5 M5 2 04 T8 PROG START P19A UNIVOLT	
		.71BF				LIGHTOLIER	SQ6-2-4-B-W-L-UNV/PSX	
						PMC	S66-DIA-W-2/OCT-4-SGL-WHT-EBSPEC-12/27	
						DAYOLITE	PTP-DI-PRSSGL-1U1D-32T8-WM-4-CBA-277/120-PROG	
						NATIONAL	S66-ID/D-232OCT-A-W-UEB-CBA	
	CX	FLUORESCENT LINEAR LIGHTING SYSTEM, MOUNTING, COLOR AND LENGTH AS SHOWN. EMERGENCY SECTION WHERE SHOWN. LAMPING FINISH AND ACCESSORIES AS NOTED, PROGRAM START OR DIMMING BALLAST, SCEISMIC SUPPORT TO STRUCTURE, 4" X 4" UNLESS INDICATED OTHERWISE. 2', 3' OR 4' LENGTH INDICATED TO FILL SPACE SHOWN, WITH FLANGE, PENDANT OR LAY-IN MOUNT AS INDICATED						
	CX-1	GRID MOUNTED 4" WIDE LINEAR	1 F32T8	25W	UNV	AXIS	BBR-S-FL-4-T8-1-MO-W-UNV-ERS-1-TBX	
		WHITE HOUSING TRIM,	RE841			PMC	S44-R-D-T-1T8-4'-WOA/FA-WHT-UNV	
		WHITE LENS				GAMMALUX	GB44RC-132T8-UNV-ERS-4-REC/T1W-ASL-WH	
		.71BF						
		EMERGENCY SECTIONS AS SHOWN						
		ON DRAWINGS.						
	CX-2	SUSPENDED HOUSING BETWEEN	1 F32T8	25W	UNV	LITECONTROL	MOD44PD-1F32T8-UNV-SGL-BK	
		CEILING PANELS	RE835			AXIS	BMD-S-FL-4-T8-1-0-C-UNV-E-1-SAX	
		BLACK PAINTED HOUSING, WHITE LENS				LINEAR	IB24 D 1 ET8 XXX SBL CXX CC-BLACK XX	
		.71BF				PMC	S44-D-AC-1T8-4'-WOA/FA-BLK-UNV	
						LINEAR	IB24 D 1 ET8 XXX SBL CXX CC-BLACK XX	
						GAMMALUX	GB44D-132T8-UNV-ERS-LENGTH-C2-ASL-BKSG	
	DF	FLUORESCENT DOWNLIGHT; THERMALLY PROTECTED HOUSING: TO ACCOMMODATE MULTIPLE TRIMS AND REFLECTOR ASSEMBLIES FOR LAMPS AS LISTED BELOW; ELECTRONIC BALLASTS; LOW IRIDESCENT REFLECTOR FINISH (EVEN IF NOT SHOWN IN CATALOG #); SELF FLANGING TRIM UNLESS NOTED.						
	DF-33	RECESSED DOWNLIGHT;7-8"	1-CF-A32	50W	277/120V	PORTFOLIO	C7132E-7151LI (14 X 13-5/16 X 8)	
		APERTURE, HORIZONTAL,	RE835			INFINITY	PH75 132T-EB (GX24Q-3) 277 BH (16-1/4 X 12 X 10-5/8)	
		32W CF-AMALGAM LAMP, CLEAR.				LIGHTOLIER	8037CLW/7132BU (15 X 12 X 7-3/4)	
						LITHONIA	AF 1/32TRT 8AR MVOLT (15-13/16 X 13-7/8 X 11-1/2)	
						OMEGA	S81H32-U-T81H-CS (14-11/16 X 13-1/4 X 6-11/16)	
						PRESCOLITE	CFT832HEB-STF802H (16-1/4 X 14-7/16 X 7-1/8)	
	EDF-33	RECESSED DOWNLIGHT; 7-	1-CF-A32	50W	277/120V	PORTFOLIO	C7132EEM-7151LI	
		8" APERTURE, HORIZONTAL,	RE835			INFINITY	PH75 132T-EB (GX24Q-3) EM 277 BH	
		32W CF-AMALGAM LAMP, CLEAR.				LIGHTOLIER	8037CLW/7132BU EM	
		(EMERGENCY)				LITHONIA	AF 1/32TRT 8AR MVOLT EL	
						OMEGA	S81H32-IE-U-T81H-CS-IE	
						PRESCOLITE	CFT832HEBEM-STF802H	
	DF-45	RECESSED WALL WASHER;	1-CF-A32	50W	277/120V	PORTFOLIO	C6132E-6111LI (13 X 11-1/2 X 6-1/2)	
		6-7" APERTURE, HORIZONTAL	RE835			INFINITY	PH60 132T-EB (GX24Q-3) WW 277 BH (16-1/4 X 12 X 5-1/4)	
		LAMP, 1-32W CF-AMALGAM				LIGHTOLIER	8081CLW/6132BU (12-3/4 X 10 X 6-5/8)	
		LAMP, CLEAR CONE.				LITHONIA	AFW 1/32TRT 6AR MVOLT (15-7/8 X 13-5/8 X 7-1/4)	
						OMEGA	S61H32PLT-U-T61H-WW-CS (11-11/16 X 11-7/16 X 5-3/4)	
						PRESCOLITE	CFT632HEB-STF602HWW (16-1/4 X 14-7/16 X 6-1/4)	
	DF-47	RECESSED DOWNLIGHT;SHOWER	1-CF-A32	50W	277/120V	OMEGA	OM61H32PLTSRD-SWR (24-13/16 X 14-1/2 X 6-3/16)	
		LIGHT TRIM, 9" APERTURE,	RE835			INFINITY	PVSL68 132T-EB (GX24Q-3) 277 BH (16-1/4 X 14-7/16 X 7-7/8)	
		HORIZONTAL, 32W CF-AMALGAM				LIGHTOLIER	8097CWHW/7132BU (15 X 12-3/4 X 6-1/2)	
		LAMP. GASKET.				HALO	C7132-1E-7180LI-120 (14 X 13-5/16 X 8)	
						PRESCOLITE	CFT832HEB-WTT2F (16-1/4 X 14-7/16 X 7-1/8)	
						LITHONIA	LGF-132TRT9 RW DOLGSGT MVOLT (17-3/4 X 17-1/4 X 8-5/8)	
	DX	DOWNLIGHT; THERMALLY PROTECTED HOUSING; TO ACCOMMODATE MULTIPLE ALUMINUM TRIMS AND REFLECTOR ASSEMBLIES AS LISTED BELOW; MAX 8" DEEP, NON-IC HOUSINGS EXCEPT AS NOTED.						
	DX-1	LED DOWNLIGHT 3500K.	LED	35.4W	UNV	LIGHTOLIER	C7L1520-DL-35K-W-CL-X-X	
		6"- 8" APERATURE, 1500 LUMEN				EDISON PRICE	LED-FTD-DL/5-1300-3500-UNV-VOL	
						PRESCOLITE	D2LED-277/120-35K-8-WFL45---X-X	
	DX-2	LED DOWNLIGHT 3500K.	LED	35.4W	UNV	LIGHTOLIER	C7L1520-DL-35K-M-CL-X-X	
		6"- 8" APERATURE, 2000 LUMEN				EDISON PRICE	LED-FTD-DL/5-2000-3500-UNV-VOL	
						PRESCOLITE	D2LED-277/120-35K-8-WFL45---X-X	
	EDX-2	LED DOWNLIGHT 3500K.	LED	35.4W	UNV	LIGHTOLIER	C7L1520-DL-35K-M-CL-X-X-EM	
		6"- 8" APERATURE, 2000 LUMEN				EDISON PRICE	LED-FTD-DL/5-2000-3500-UNV-VOL-EM	
		INTEGRAL EMERGENCY				PRESCOLITE	D2LED-277/120-35K-8-WFL45---X-X-EM	
	DX-2W	LED WALL WASH 3500K.	LED	35.4W	UNV	LIGHTOLIER	C7L1520-LW-35K-CL-X-X	
		6"- 8" APERATURE, 2000 LUMEN				EDISON PRICE	LED-FTD-WL/5-2000-3500-UNV-VOL	
						PRESCOLITE	D2LED-277/120-35K-8-WW---X-X	
	DX-3	LED DOWNLIGHT 3500K.	LED	35.4W	UNV	LIGHTOLIER	C4L10-DL-35K-CL-X-X	
		3"- 4" APERATURE, 2000 LUMEN				PRESCOLITE	D2LED-277/120-35K-8-WFL45---X-X	
	E	E PREFIX INDICATES THAT FIXTURE IS PROVIDED WITH AN EMERGENCY BATTERY PACK TO PROVIDE POWER TO ANY 2, 3, 4 OR 8 FOOT FLOURESCENT LAMP COMPATIBLE WITH ALL STANDARD AND ELECTRONIC BALLASTS; COMPLETELY SELF-CONTAINED TO PROVIDE 90 MINUTES OF EMERGENCY POWER TO FIXTURE BALLAST; MINIMUM LIGHT OUTPUT FOR TYPICAL 4' LAMP SHALL BE 1100 LUMENS OR HIGHER;UNIVERSAL TRANSFORMER FOR 120 OR 277 VOLTS; LOW VOLTAGE PROTECTION, COMBINATION TEST SWITCH AND AC "ON" INDICATOR; 10 YEAR PRO-RATA WARRANTY; INSTALL TEST SWITCH IN A MANNER THAT REQUIRES NO DISASSEMBLY FOR TESTING.						
	E	EMERGENCY BATTERY PACK.		120/277V	3W	IOTA	I-80	
		1100 LUMENS MINIMUM.				BODINE	B50	
						LITHONIA	PS-1400	
						PRESCOLITE	EFPS-5	
						EELP	EB1400 (CONTRACTOR INSTALLED)	
						CHLORIDE	CFP841	
						LIGHTOLIER	FBP50	
						SIDELITE	S60F	
	E3	EXIT SIGN: CAST ALUMINUM HOUSING; UNIVERSAL MOUNTING; UNIVERSAL ARROWS PER PLANS; EMERGENCY BATTERY PACK WITH 10 YEAR PRO-RATA WARRANTY; LED, DIFFUSE LENS PANEL; GREEN LETTERS ON WHITE BACKGROUND. MUST MEET NFPA ILLUMINATION STANDARDS.						
	E3-1	SINGLE FACE:	LED	1W	120/277V	DUAL-LITE	LCSGWE	
						EELP	CA 1G WW EM	
						LITHONIA	LES W 1 G 120/277 ELN	
						SURE-LITES	CX7170GW	
						MCPHILBEN	ER55L-1-12/27-WG	
						CHLORIDE	CXLN1GW	
						LIGHTOLIER	LDN1GW	
	E3-2	DUAL FACE:	LED	2W	120/277V	DUAL-LITE	LCDGWE	
						EELP	CA 2G WW EM	
						LITHONIA	LES W 2 G 120/277 ELN	
						SURE-LITES	CX7270GW	
						MCPHILBEN	ER55L-2-12/27-WG	
						CHLORIDE	CXLN2GW	
						LIGHTOLIER	LDN2GW	
	ET	ET PREFIX INDICATES THAT FIXTURE IS PROVIDED WITH AN EMERGENCY TRANSFER SWITCH TO TRANSFER POWER FROM NORMAL TO GENERATOR POWER WITH SWITCH BYPASS; COMPATIBLE WITH ALL STANDARD AND ELECTRONIC BALLASTS AND ALL FLUORESCENT LAMPS; COMPLETELY SELF-CONTAINED TO BE MOUNTED IN BALLAST CHANNEL; MINIMUM 5 YEAR WARRANTY; 120 AND 277 VOLT COMPATIBLE.						
	ET	EMERGENCY TRANSFER DEVICE.		2W	277/120V	IOTA	ETS	
		3A RATED, PROVIDE 1 TRANSFER				LIGHTOLIER	LPTC	
		DEVICE PER LUMINAIRE. CONTRACTOR				LIGHTGUARD	FLTC	
		INSTALLED IN FIXTURE.				BODINE	GTD	
						SIDELITE	PSM	
						DUALLITE	ATSD	
	FD	WET LOCATION FLUORESCENT; PLASTIC HOUSING; IMPACT RESISTANT ACRYLIC LENS.						
	FD-10	4' 2 T8 FLUORESCENT	2-F32T8	70W	277/120V	LITHONIA	DMW 232T8 AR 120/277 PROGRAM START	
		LAMPS;	RE835			METALUX	VT2-232T8/DR-PROG-WL	
		.71BF				HUBBELL	EWLO42-SPDR-U	
						COLUMBIA	LUN4-232T8-EB120/277 PROG	
						DAYBRITE	V2WAB232T8-1/2EB-LT	
						LIGHTOLIER	STW-232-U-SO	
	G	INDIRECT TROFFERS: RECESSED FOR LAY-IN GRID; HINGED FLUSH STEEL DOOR WITH LATCH; EARTHQUAKE CLIPS, PROGRAM START ELECTRONIC BALLASTS; ONE BALLAST PER FIXTURE, 100-10% DIMMING BALLAST OR DUAL LEVELSWITCHING BALLASTS WHERE SHOWN, INSTALLER TO COORDINATE CONTROLS AND MOUNTING.						
	G-7	2X2, 2-LAMP. HIGH EFFICIENCY	2-F40BX	78W	277/120V	LEDALITE	9822DXST2TT5S12 SPEC	
		OPTICS	RE835			AXIS	DAYF-2X2-S-40TT-2-W-UNV-E-1-X	
						MARK	WHS 22 2/40BX EBPR XXX SW SW	
						DAYBRITE	2STG2CF40-D-UNV-1/2EB10R	
						LIGHTOLIER	SKS2GPK2FT-UNV-IB	
	G-7D	SAME AS G-7 BUT WITH 100% TO 10% DIMMING BALLAST.						
	G-9	2X2, 2-LAMP. HIGH EFFICIENCY	2-F14T5	32W	277/120V	LEDALITE	9822D1ST214S12 SPEC	
		OPTICS	RE835			AXIS	DAYF-2X2-S-T5-2-W-UNV-E-1-X	
						MARK	WHS 22 2/T5 EBPR XXX SW SW	
						DAYBRITE	2STG2 14-D-UNV-1/2EB10R	
						LIGHTOLIER	SKS2GPK214-UNV-IB	
	G-12	2X4, 2-LAMP. HIGH EFFICIENCY OPTICS	2-F32T8	44W	277/120V	LEDALITE	9824DXST1232-1-2-SPEC	
		.71BF	RE835			AXIS	DAYF-2X4-S-T8-2-W-UNV-E-1-X-	
						MARK	WHS 24 2/T8 GEUSXL XXX SW SW	
						DAYBRITE	2STG232-D-UNV-1/2EBL10R	
						LIGHTOLIER	SKS2GPK232-UNV-P2	
	G-12D	SAME AS G-12 BUT WITH BI-LEVEL STEP DIMMING.						
	G-13	2X4, 3-LAMP. HIGH EFFICIENCY OPTICS	3-F32T8	66W	277/120V	LEDALITE	9824DXSTT332-1-2-SPEC.61	
		.71BF	RE835			AXIS	DAYF-2X4-S-T8-3-W-UNV-E-1-X-.	
						MARK	WHS 24 3/T8 GEUSXL XXX SW SW 1/3	
						DAYBRITE	2STG332-D-UNV-1/3EBL10R	
						LIGHTOLIER	SKS2GPK332-UNV-P3	
	G-13D	SAME AS G-13 BUT WITH DUAL BALLASTS FOR DUAL SWITCHING LEVELS						
	GF	TROFFERS: RECESSED FOR FLANGE MOUNTED CEILING; STATIC; HINGED AND LATCHED STEEL DOOR; .125 ACRYLIC PRISMATIC LENS, MINIMUN 1/8"; PRORGAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS. MAX 5" DEEP. SPECIFICATION GRADE.						
	GF-4	2X4, 3 LAMP.	3-F32T8	95W	277/120V	LITHONIA	2SP8F 332 A12125 1/3 MVOLT TUBRHP (3-11/16" DEPTH)	
		.71BF	RE835			METALUX	2FP-332A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH)	
						DAYBRITE	2DPF332-FS21-UNV-1/3EB-SPEC (4-3/8" DEPTH)	
						COLUMBIA	ST824-332F-FSA12.125-3EB8LHPRUNV (4-1/4" DEPTH)	
						LIGHTOLIER	XT2FVI332-U-03P (3" DEPTH)	
						LSI	FLA125 332 SD SSO10PS UE (4" DEPTH)	
	GS	TROFFERS: RECESSED FOR LAY-IN GRID; STATIC; HINGED AND LATCHED STEEL DOOR; .125 ACRYLIC PRISMATIC LENS, MINIMUN 1/8"; EARTHQUAKE CLIPS; MAX 5" DEEP; SPECIFICATION GRADE; PROGRAM START ELECTRONIC BALLASTS, T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.						
	GS-2	2X2, 2 LAMP.	2-F31T8U	65W	277/120V	LITHONIA	2 SP8G 2U31 A12125 MVOLT TUBRHP (4-1/4" DEPTH)	
		.71BF	RE835			METALUX	2GP-2U6T8A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH)	
						DAYBRITE	2DPG231U6-FS21-UNV-1/2EB-SPEC (4-3/8" DEPTH)	
						COLUMBIA	ST822-232U6G-FSA12.125-EB8LHPRUNV (4-1/4" DEPTH)	
						LSI	LA125 2U32 SD SSO10PS UE (4" DEPTH)	
						LIGHTOLIER	XT2GVI2-2U-UNV-SOP (4-1/2" DEPTH)	
	GS-3	2X4, 2 LAMP.	2-F32T8	65W	277/120V	LITHONIA	2 SP8G 232 A12125 MVOLT TUBRHP (4-1/2" DEPTH)	
		.71BF	RE835			METALUX	2GP-232A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH)	
						DAYBRITE	2DPG232-FS21-UNV-1/2EB-SPEC (4-3/8" DEPTH)	
						LSI	LA125 232 SD SSO10PS UE (4" DEPTH)	
						LIGHTOLIER	XT2GVI232-UNV-SOP (3-5/8" DEPTH)	
						COLUMBIA	ST824-232G-FSA12.125-EB8LHPRUNV (3-3/4" DEPTH)	
	GS-4	2X4, 3 LAMP.	3-F32T8	95W	277/120V	LITHONIA	2 SP8G 332 A12125 1/3 MVOLT TUBRHP (4-1/2" DEPTH)	
		.71BF	RE835			METALUX	2GP-332A125-UNV-EB81-PROGRAM START (3-3/4" DEPTH)	
						DAYBRITE	2DPG332-FS21-UNV-1/3EB-SPEC (4-3/8" DEPTH)	
						COLUMBIA	ST824-332G-FSA12.125-3EB8LHPRUNV (3-3/4" DEPTH)	
						LIGHTOLIER	XT2GVI332-UNV-03P (3-5/8" DEPTH)	
						LSI	LA125 332 SD SSO10PS UE (4" DEPTH)	
	HF	HIGH BAY INDUSTRIAL FLUORESCENT FIXTURES: STEEL ENCLOSURE, ELECTRONIC BALLAST; SURFACE SPACER SUSPENDING FIXTURES FLUSH WITH THE BOTTOM OF THE TRUSSES, UNLESS OTHERWISE INDICTED. RATED FOR 55 DEGREES C. PROVIDE WIREGUARDS FOR OPEN FIXTURES, AND HINGED LENSES/COVERS FOR ENCLOSED FIXTURES.						
	HF-4	HEAVY DUTY SURFACE LUMINAIRE,	4-F54T5HO	234W	277/120V	LA LIGHTING	HB1609-4-4M-SR-DRP8-2E5H-UNV/WG11	
		48" X 17", 4-LAMP, WIREGUARD	RE841			DAYBRITE		
						NULITE		
						COLUMBIA		
	HF-6	HEAVY DUTY SURFACE LUMINAIRE,	6-F54T5HO	358W	277/120V	LA LIGHTING	HB1609-6-4M-SR-DRP8-2E5H-UNV/WG11	
		48" X 23", 6-LAMP, WIREGUARD	RE841			DAYBRITE		
						NULITE		
						COLUMBIA		
	LED	LOW VOLTAGE LED STRIPLIGHTS, MUST FIT MILLWORK, CEILINGS OR SIGNS, SEE ARCHITECTURAL DETAILS REFLECTOR ASSEMBLIES FOR LED LAMPS AS LISTED BELOW						
	LED-2	LED STRIP, WHITE,SQ TO FIT SIGN BOX	LED	4.5W/FT	24VAC	WINONA	WSL102XX30-40K-ND24-F-CBA-XSTD	
		MAX .88" W X .78"H	4000K			COLORKINETICS	EW COVE 4000K	
		REMOTE TRANSFORMER BY INSTALLER				I2SYSTEMS	V4290A-X6A-XXX-I	
		WET LABEL.				WINONA	WSL 202 XX 30 40K XX F SCBA XX X STD	
						JESCO	S401-XX-40-WH	
						WINONA	WSL 202 XX 30 30K XX F SCBA XX X STD	
	OB	BOLLARDS: SEAMLESS CAST ALUMINUM HOUSING, WITH MOUNTING BASE AND ANCHOR BOLTS, ACRYLIC LENS, INTEGRAL MULTI-TAP BALLAST; FUSED, COLOR AS DIRECTED BY ARCHITECT CHOSEN FROM MANUFACTURERS' STANDARD PAINTED FINISHES.						
	OB-2	8" ROUND X 42" HIGH,	100PSMH	125W	MTB	GARDCO	BRM-820-42-100-MH-MTB-X-F	
		EXTERNAL LOUVER OPTICS,				KIM	VRB1-100MHXXX-XXX-FUSED	
		SOLID DOME TOP.				LSI	BVRD-EL-100MH-XX-MT-XXX-NO-F	
		CUSTOM COLOR BY ARCHITECT				STERNER	AR-42-G-CL-DT-100-H-VND-SCBA	
						BRONZELITE	CL82XA0100PMT-FS	
						ALLSCAPE		
						GREENLEE	ABR-100MH-MT-EL-CBA-DT(FUSED)	
						LITHONIA	KBA8 100M LV TB SF	
	OC	WALL PACK: ADJUSTABLE CUT OFF; FULL PERIMETER GASKETING: WET LOCATION; STAINLESS STEEL HINGES AND LATCHES; PROJECTING LENS; HPF BALLAST; SEE ELEVATION FOR MOUNTING HEIGHT, COLOR AS SPECIFIED BY ARCHITECT.						
	OC-27	150 PSMH, RECESSED J	150PSMH	200W	277/120V	MCPHILBEN	101-WT-175MH-XX	
		BOX. WIDE THROW, SQUARE,				LSI	GBWS-3-150MH-F-MT-XX-NO	
		DECORATIVE				LITHONIA	WST 150M WT TB	
						LUMARK	MHIP-T-150-MT-XX	
	OC-32	CF42, RECESSED J BOX.	CF42	50W	277/120V	MCPHILBEN	101MT-42TRF-CBA-DT	
		MEDIUM THROW, SQUARE,	RE835			LSI	GBWS-FTM-42CFL-F-120/277-XX-NO	
		DECORATIVE				LITHONIA	WST 42TRT MD MVOLT	
						LUMARK	PLIP-T-42-MT-XX	
						LSI	GBWS FTM 42CFL F UE XXX W/LAMP	
	P3	PARABOLIC LOUVER FIXTURES WITH 3" LOUVERS IN PLASTIC PROTECTORS AND FULL DEPTH REFLECTOR; SIZE AS NOTED; PROGRAM START ELECTRONIC BALLASTS PER SPECS; T8 LAMPS; ONE BALLAST PER FIXTURE UNLESS NOTED FOR SWITCHING; STATIC OR AIR RETURN AND HEAT REMOVAL; EARTHQUAKE CLIPS INSTALLED ON ON GRID FIXTURES; HINGED AND LATCHED DOOR; LOW IRIDESCENT LOUVER FINISH, VERTICAL GRAIN DIE STAMPED LOUVERS; TWO FORMED BALLAST COVERS; MAX 1300 CD/M2 ABOVE 45 DEGREES.						
	P3-6	2X4, 18 CELL LAY-IN; SEMI-	3-F32T8	95W	277/120V	LITHONIA	2PM3NGB-332-18LD-MVOLT-1/3TUBRHP-2R	
		SPECULAR SILVER, 3-LAMP.	RE835			DAYBRITE	2P3GS332-36SL-UNV-1/3-EB-SPEC	
		STATIC.				METALUX	2EP3GX-332S36I-UNV-PROGRAM START-2BC	
		.71BF				COLUMBIA	P4D24-332G-LD36-S-3EB8LHPRUNV	
						LSI	N2PG18 332 FD SSO10PS 2BC UE	
						LIGHTOLIER	DPS2G18LP332-U-03P	
						HEWILLIAMS	HE3G-D24-332-36S-EB8PXLH3*OS-UNV	
	P3-12	1X4, LINEAR WALLWASHER;	1-F32T8	40W	277/120V	COLUMBIA	PW84-132G-LD-B-EB8LHPRUNV	
		SEMI-SPECULAR SILVER LOUVERS.	RE835			LIGHTOLIER	WMRL143-U-SOP	
		STATIC.				METALUX	RWW-132I-UNV-PROGRAM START	
		.71BF				LITHONIA	WWG1-32-IRLD-MVOLT-TUBRHP	
						PMC	SLC-D-T-1/OCT-4'-CA-12/27-EB	
						LSI	NWW 132 SSO10PS UE	
	P3-13	1X2, LINEAR WALLWASHER;	1-CF40	50W	277/120V	COLUMBIA	PW82-140TTG-LD-B-EBTTLHPRUNV	
		SEMI-SPECULAR SILVER LOUVERS.	RE835			LIGHTOLIER	WMRL125-U-SB	
		STATIC.				METALUX	RWW-1BX40I-UNV-EB51	
						LITHONIA	WWG1-CF40-IRLD-MVOLT-TUBRHP	
						OMEGA	OM24-1H-40BX-WW-CSS-120/277	
						LSI	NWW 140BX SSO10PS UE	
	S	FLUORESCENT STRIP LIGHT: STEEL CONSTRUCTION; WHITE PAINTED FINISH; SUITABLE FOR MOUNTING ON LOW DENSITY CEILINGS; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.						
	S-1	4', 1-LAMP.	1-F32T8	40W	277/120V	LITHONIA	C132-MVOLT-TUBRHP	
		.71BF	RE835			LIGHTOLIER	SW132-U-SOP	
						METALUX	SS-132-UNV-PROGRAM START	
						DAYBRITE	T132-UNV-EB-SPEC	
						HUBBELL	S132UPS	
						COLUMBIA	CS4-132-EB8120/277 PROG	
	S-3	4', 2-LAMP	2-F32T8	65W	277/120V	LITHONIA	C232-MVOLT-TUBRHP	
		WIRE GUARD, .71BF	RE835			LIGHTOLIER	SW232-U-SOP	
						METALUX	SS-232-UNV-PROGRAM START	
						DAYBRITE	T232-UNV-1/2-EB-SPEC	
						HUBBELL	C232UPS	
						COLUMBIA	CS4-232-EB8120/277 PROG	
	S-9	4', 1-LAMP, POLYCARBONATE	1-F32T8	32W	277/120V	KENALL	ES3-48-1-T8-RS-1-DV-2H-PP	
		LENS, WET LABEL, APPROX	RE835					
		3" WIDE CONTINUOUS ROW MOUNT.						
		EMERGENCY WHERE SHOWN ON						
		PLANS.						
	SA	GENERAL PURPOSE INDUSTRIAL: WHITE ENAMEL, APERTURED REFLECTOR; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE; UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS; STEM MOUNTED WITH TONG HANGERS.						
	SA-1	4', 2-LAMP.	2-F32T8	65W	277/120V	LITHONIA	EJA232-MVOLT-TUBRHP-THUN	
		.71BF	RE835			LIGHTOLIER	KWA232-U-SOP	
						METALUX	IA-232-UNV-PROGRAM START	
						HUBBELL	IG142R-PP10-UPS	
						COLUMBIA	CSR4-232U-EB8120/277 PROG-CSTH	
						DAYBRITE	IA232-UNV-1/2-EB-SPEC	
	TX	SPECIAL FIXTURES AS INDICATED. MEET ALL REQUIREMENTS OF SPECIFICATIONS AND FIXTURE SCHEDULE. VISUAL AND FINISH APPROVAL REQUIRED.						
	TX-2	16-20" DECORATIVE PENDANT	4-CF42	186W	277/120V	LIGHTOLIER	404734XU3-40432-404SKG-416DG	
		HIGHBAY FIXTURE, 16" ACRYLIC	RE835			BEGHELLI	BS710-CF-MD-42-MT-AC	
		DIFFUSER, 20" GLASS DISK LENS.				PACE	HPII-500-812-2XPL42 120/277 ACXX GDR	
		AIRCRAFT CABLE MOUNTING.				FC LIGHTING		
						LSI	LFT-42CFL4-UE-ALU-AC16DGR-ACC120"-XXX	
	TX-3	DECORATIVE PENDANT	1-CF-A32			LIGHTOLIER	PM150OSA/CF32-PG01-GL01-SK01-277	
		CYLINDER	RE835			BEGHELLI		
						PACE		
						FC LIGHTING		
						LSI		
	TX-99	INGROUND WEATHER	LED		277/120	LIGHTOLIER	I25-SS-NF-WL40	
		PROOF FIXTURE				BEGHELLI		
						PACE		
						FC LIGHTING		
						LSI		
	UC	UNDERCABINET LIGHT: LOW PROFILE X 5 1/4"DEEP X LENGTH AS NOTED; ACRYLIC DIFFUSER.						
	UC-10	48 1/8" LONG, WHITE.	F32T8	40W	120V	NULITE	112 32 ELB10	
		.71BF				FSC	3148-T8-EL	
						LIGHTOLIER	TCU32WSO120	
						CREATIVE	UC-132-T8	
						DURAY	HUC 132 PSEB120	
						LSI	SL1 32 SSO 120	
	V	VANDAL RESISTANT SURFACE MOUNTED LIGHTING: .125" INJECTION MOLDED POLYCARBONATE LENS; IMPACT RESISTANT; UV STABILIZED; ALL METAL PARTS ARE ENCLOSED; GASKETED; VANDAL RESISTANT STAINLESS STEEL SCREWS; SECURED MOUNTING; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS.						
	V-5	4', 3-LAMP WITH PRISMATIC	3-F32T8	65W	120V	KENALL	N1048-C-332SB1-120/277	
		LENS;	RE835			FAIL-SAFE	FPS-332-UNV-PROGRAM START	
		.71BF				LUMINAIRE	LVP-751-332-EBPS-120	
						NEW STAR	51C-124-U-T8PROGRAM	
						CD LIGHTING	VSL-24-232-UNV-EB	
						HOLCOR	HSP2-2/32T8-120-TX-UNIVOLT-PROGRAM START	
	W	LOW PROFILE WRAPAROUND: SURFACE MOUNTED SUITABLE FOR MOUNTING ON LOW DENSITY CEILINGS WRAPAROUND ACRYLIC PRISMATIC DIFFUSER; WHITE ENAMEL ENDPLATES; MINIMUM CU OF 70 @ 80/50/20 AND RCR=1; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.						
	W-3	NARROW BODY WRAPAROUND;	2-F32T8	65W	277/120V	LITHONIA	LB232-MVOLT-TUBPHP	
		2-LAMP, APPROX; 3" X 10"	RE835			DAYBRITE	CAN232-UNV-1/2-EB-SPEC	
		X 48".				METALUX	WS-232A-UNV-PROGRAM START	
		.71BF				LIGHTOLIER	WA232-U-SOP	
						LSI	PR 232 SSO10PRS UE	
						COLUMBIA	WC4-232-EBPS120/277	
	WB	WALL MOUNTED FLUORESCENT LOCATED ABOVE WALL ELEMENT (MIRROR/WHITEBOARD, ETC.): AS INDICATED ON DRAWINGS; WITH ACRYLIC INJECTION MOLDED; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE, UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS.						
	WB-3	2-LAMP, WALL MOUNT 48",	2-F32T8	65W	277/120V	DAYBRITE	CD232W-UNV-1/2-EB-SPEC	
		STEEL ENCLOSURE, DOWNLIGHT	RE835			LIGHTOLIER	CWB232-WB-U-SOP	
		ONLY; ACRYLIC INJECTION				METALUX	BI-232-UNV-PROGRAM START	
		MOLDED PRISMATIC DIFFUSER.				L.A.L.	BSQ100-2-4R-INJ-WHT-T8EB-120/277-UPS	
		.71BF				COLUMBIA	WAL4-232-EBPS120/277	
						LITHONIA	WP 232 DO MVOLT-TUBPHP	
						LSI	WB 232 SSO10PRS UE	
	WS	WALL SCONCE; ARCHITECT SELECTED DECORATIVE FIXTURE.						
	WS-1	NARROW SURFACE STRIP; WHITE	1-F25T8	30W	120/277V	REZEK/	BASIC STRIP 36 WALL	
		HOUSING WITH CHROME ENDCAPS.	RE835			ARTEMIDE	CONTRACTOR ALLOWANCE: $290.00	
	WS-2	BATH VANITY SCONCE	2-CF18	42W	120V	OXYGEN	2-5122-114	
		POLISHED CHROME, WHITE OPAL					CONTRACTOR ALLOWANCE: $163.00	
		GLASS						
	ZB	LIGHT POLES: TOTALLY ENCLOSED RAINTIGHT, DUST-TIGHT AND CORROSION RESISTANT; POLE AS SHOWN IN DETAIL WITH HANDHOLE, COVER, BOLT COVER, AND BASE; PAINTED (COLOR TO BE SELECTED BY ARCHITECT / ENGINEER WHICH MAY DIFFER FROM CATALOG NUMBER SHOWN). MTB= 120,208,240,277 VOLT MULTI-TAP BALLAST. ALL BALLASTS HPF. HORIZONTAL OR VERTICAL LAMP.						
	ZB-11	ARM MOUNTED DISK STYLE	320PSMH	363W	MTB	EMCO	ERA-251-3H-320PSMH-MT-CBA	
		LUMINAIRE, SINGLE HEAD,				MCGRAW	CAS2-320-MP-MT-3F	
		MULTI-TAP BALLAST; TYPE				SPALDING	DLR-ARM-M320PS-TYPE 3-MT-DBZ	
		III DISTRIBUTION. 320PSMH				LITHONIA	KAR2 320M R3 TB SPD09 SCWA	
						VISIONAIRE	CEN-2-T3-32P-6-S1-BZ	
	ZB-11d	ARM MOUNTED DISK STYLE	2-320PSMH	726W	MTB	EMCO	ERA-251-3H-320PSMH-MT-CBA-DUAL	
		LUMINAIRE, DOUBLE HEAD,				MCGRAW	CAS2-320-MP-MT-3F-DUAL	
		MULTI-TAP BALLAST; TYPE				SPALDING	DLR-ARM-M320PS-TYPE 3-MT-DBZ-DUAL	
		III DISTRIBUTION. 320PSMH				LITHONIA	KAR2 320M R3 TB SPD09 SCWA-DUAL	
						VISIONAIRE	CEN-2-T3-32P-6-S1-BZ-DUAL	
	X	SPECIAL FIXTURES AS INDICATED. MEET ALL REQUIREMENTS OF SPECIFICATIONS AND FIXTURE SCHEDULE. VISUAL AND FINISH APPROVAL REQUIRED.						
	X-1	LED WALL 4 FEET 3000-3500K	LED	45W	277/120V	JESCO	WWS 48 36 - PP - 30 - W30 - Z	
						BEGHELLI		
						PACE		
						FC LIGHTING		

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STATE OF UTAH
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925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions:

1	ADDENDUM 2	02/10/2012

Fixture Schedule

sheet:

EL601

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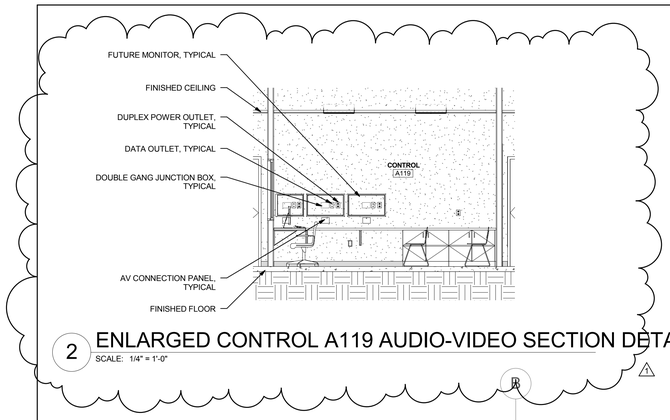
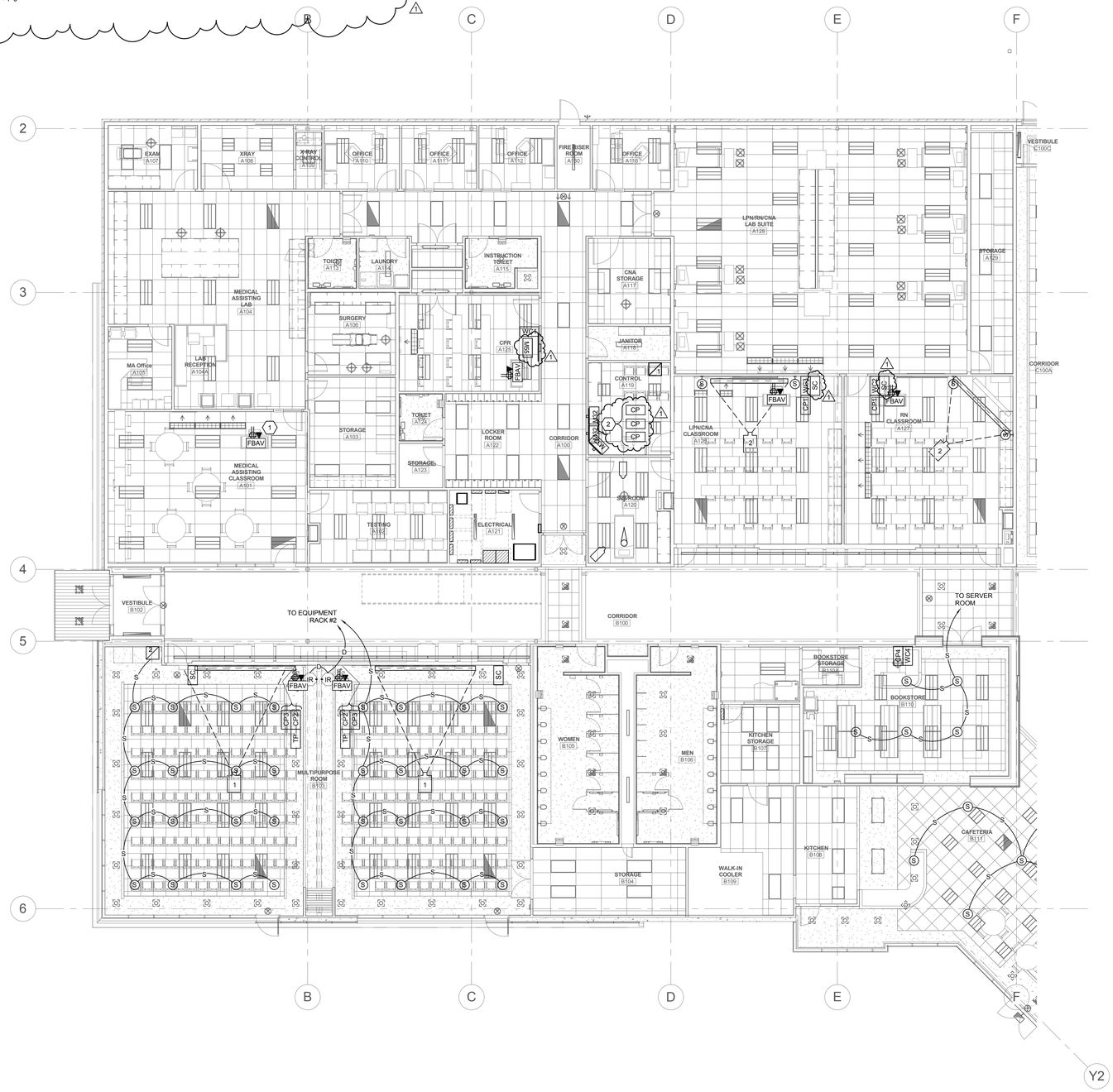


2 ENLARGED CONTROL A119 AUDIO-VIDEO SECTION DETAIL

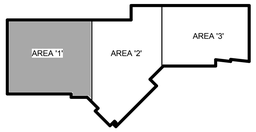
SCALE: 1/4" = 1'-0"



1 LEVEL 1 AUDIO-VIDEO PLAN - AREA '1'

SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH



SHEET KEYNOTES

1 PROVIDE AUDIO-VIDEO ROUGH-IN ONLY IN THIS ROOM.

2 PROVIDE AN AV ACONNECTION PANEL FOR EACH FLAT PANEL MONITOR. MOUNT CONNECTION PANEL JUST COUNTERTOP (BELOW FLAT PANEL MONITOR).

REGISTERED PROFESSIONAL ENGINEER No. 7162 STATE OF UTAH

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1 ADDENDUM 2 02/10/2012

Level 1 Audio-Video Plan - Area '1'

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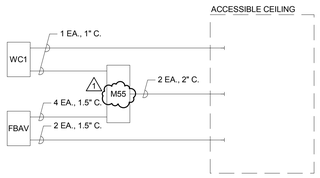
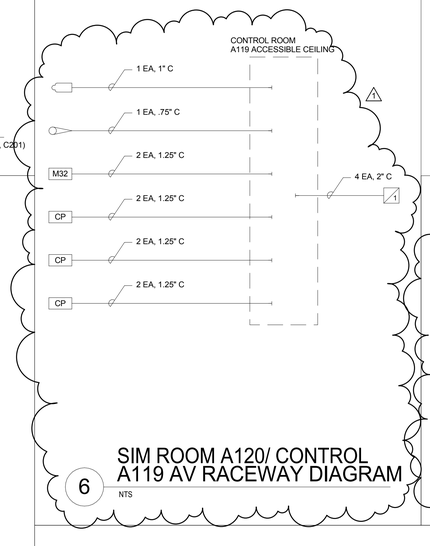


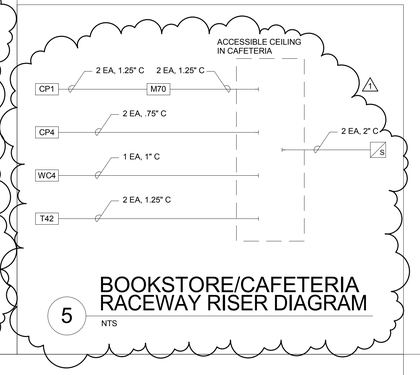
9 STANDARD CLASSROOM ROUGH-IN RISER DIAGRAM

NTS - (TYPICAL A101, A125, C102, C104, C112, C114, C124, A201, A207, C201)



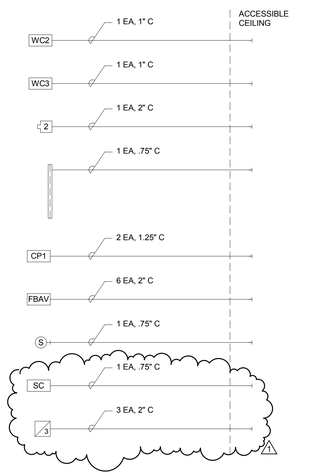
6 SIM ROOM A120/ CONTROL A119 AV RACEWAY DIAGRAM

NTS



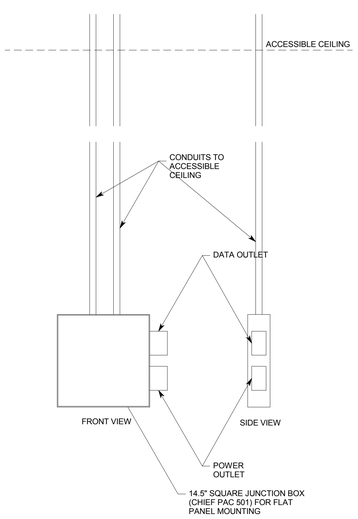
5 BOOKSTORE/CAFETERIA RACEWAY RISER DIAGRAM

NTS



8 CLASSROOM AV RACEWAY RISER DIAGRAM

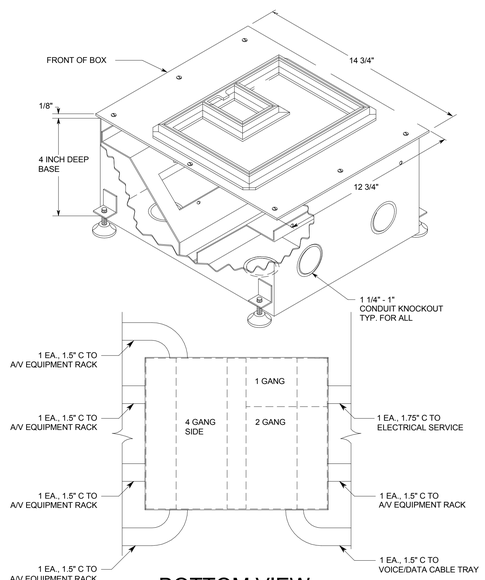
NTS - (TYPICAL OF A126, A127, B224)



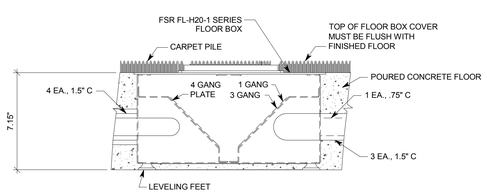
7 FLAT PANEL MONITOR MOUNTING DETAIL

NTS

T42 M55 M70



BOTTOM VIEW

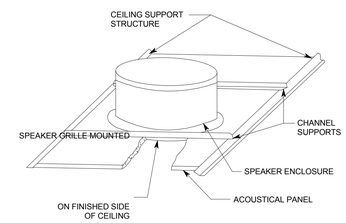


SIDE VIEW

4 FLOOR BOX TERMINATION DETAIL

NTS

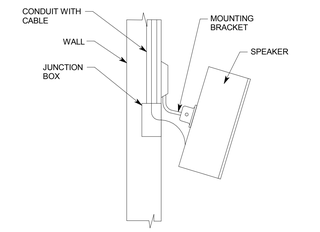
FBAV



3 CEILING SPEAKER MOUNTING DETAIL

NTS

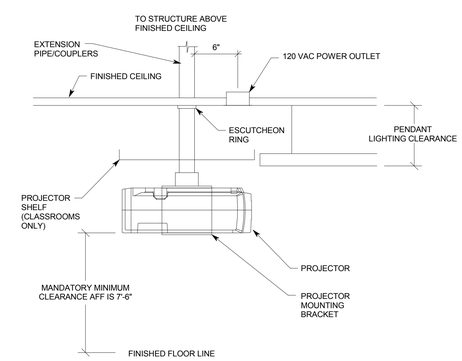
S



2 WALL SPEAKER MOUNTING DETAIL

NTS

S



NOTES:

1. INSTALL PROJECTOR AS TIGHT TO THE CEILING AS POSSIBLE.
2. MOUNT PROJECTOR SUCH THAT THERE IS NO INTERFERENCE FROM THE PENDANT LIGHT FIXTURES.

1 PROJECTOR MOUNTING DETAIL

NTS

#

AV ROUGH-IN EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING	SPECIAL INSTRUCTIONS
#	PROJECTOR JUNCTION BOX, 4" X 4" X 4"	ABOVE FINISHED CEILING, COORDINATE LOCATION W/ DISPLAY DEVICE SCHEDULE	LOCATE PERPENDICULAR TO CENTER OF PROJECTION SCREEN
SC	PROJECTION SCREEN CONTROL JUNCTION BOX, 4" SQUARE W/ 1 GANG MUD RING	FLUSH IN WALL AT ELECTRICAL SWITCH HEIGHT	
TP	TOUCH PANEL BACK BOX	WALL AT ELECTRICAL SWITCH HEIGHT	CRESTRON PMK-4L
CP	CONNECTION PANEL, JUNCTION BOX, 4-11/16" SQUARE W/ 2 GANG MUD RING	WALL ABOVE DESK	VERIFY EXACT MOUNTING WITH ARCHITECT
CP1 CP2	JUNCTION BOX, 4-11/16" SQUARE W/ 2 GANG MUD RING	AT ELECTRICAL OUTLET HEIGHT UNLESS OTHERWISE NOTED	
FBAV	FLOOR BOX	FLOOR	SEE 'EP' SHEETS
CP3 CP4	JUNCTION BOX, 4-11/16" SQUARE W/ SINGLE GANG MUD RING	FLUSH IN WALL AT ELECTRICAL OUTLET HEIGHT	
WC1 WC2 WC3 WC4	WALL CONTROL PANEL, 3 GANG JUNCTION BOX	FLUSH IN WALL AT ELECTRICAL SWITCH HEIGHT	
	PROJECTION SCREEN, RECESSED, MOTORIZED	CEILING	
M32	FLAT PANEL MONITOR, JUNCTION BOX, 4-11/16" SQUARE W/ 2 GANG MUD RING	WALL ABOVE DESK	VERIFY EXACT MOUNTING WITH ARCHITECT
T42 M55 M70	FLAT PANEL MONITOR, CHIEF PAC501	WALL AT APPROXIMATELY 63" AFF	VERIFY EXACT MOUNTING WITH ARCHITECT
	CAMERA, SINGLE GANG JUNCTION BOX ABOVE ACCESSIBLE CEILING	CEILING	
IR	WIRELESS RECEIVER, 4-11/16" SQUARE W/ DOUBLE GANG MUD RING	FLUSH IN FINISHED CEILING	
S	SPEAKER ENCLOSURE	FLUSH IN FINISHED CEILING	FURNISHED AND INSTALLED BY AV INSTALLER
S	SPEAKER WALL MOUNT, SINGLE GANG JUNCTION BOX	WALL AT 12" BELOW FINISHED CEILING	SEE DETAIL 2/EJ601
1	EQUIPMENT RACK #1, 14.5"x14.5" JUNCTION BOX AT 24" AFF	WALL	
2	EQUIPMENT RACK #2, 14.5"x14.5" JUNCTION BOX AT 18" AFF	WALL	IN MILLWORK BEHIND AV EQUIP. RACK
3	EQUIPMENT RACK #3, 14.5"x14.5" JUNCTION BOX AT 18" AFF	WALL	IN MILLWORK BEHIND AV EQUIP. RACK

GENERAL SHEET NOTES

1. INSTALL ALL CONDUIT IN A CONCEALED FASHION. SURFACE MOUNTED CONDUIT WILL NOT BE ACCEPTED.
2. MAINTAIN MAXIMUM SEPARATION BETWEEN A/V SYSTEM CONDUIT AND ALL POWER CONDUIT.
3. INSTALL NYLON PULL STRINGS IN ALL A/V SYSTEM CONDUIT.
4. SUPPORT THE ENTIRE WEIGHT OF ALL SPEAKER ENCLOSURES FROM THE BUILDING STRUCTURE.
5. IF THE BOXES, ENCLOSURES, & CABINETS SPECIFIED ARE NOT PROVIDED FROM THE MANUFACTURER WITH THE REQUIRED KNOCK OUTS FOR THE SPECIFIED CONDUIT, FIELD CUT ALL REQUIRED KNOCK OUTS TO TERMINATE THE QUANTITY AND SIZES OF THE SPECIFIED CONDUITS.
6. THE ROUGH-IN LOCATIONS FOR PROJECTORS (P) SHOWN ON THE FLOOR PLAN DRAWINGS ARE APPROXIMATE. REFER TO THE DISPLAY DEVICE SCHEDULE FOR ACTUAL PROJECTION DISTANCES. LOCATE ROUGH-IN FOR PROJECTORS IN COMPLIANCE WITH THE DISPLAY DEVICE SCHEDULE.
7. ALL ROUGH-IN SHALL BE IN COMPLIANCE WITH ANSI/TIA/EIA 569-A.

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1 ADDENDUM 2 02/10/2012

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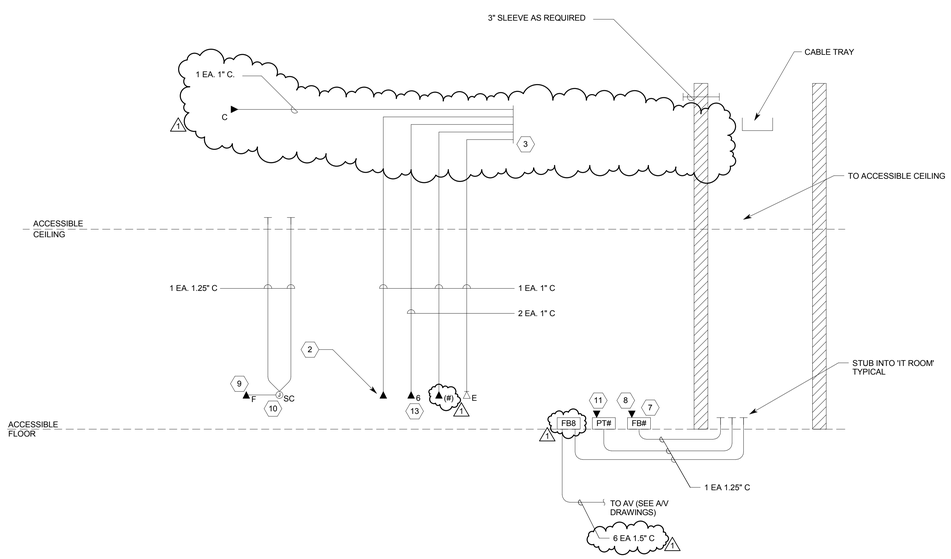
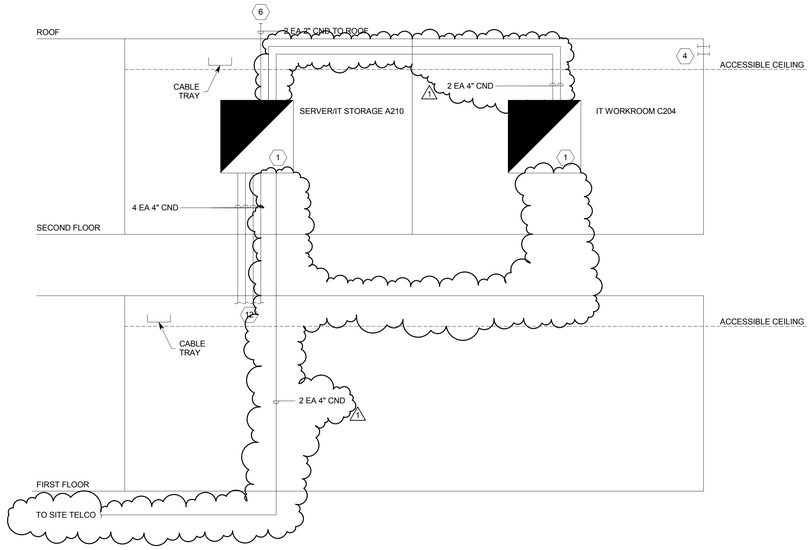


2 VOICE-DATA ROUGH-IN RISER DIAGRAM

NTS



1 VOICE-DATA RACEWAY RISER DIAGRAM

NTS

VOICE-DATA ROUGH-IN SCHEDULE

ELECTRONIC SYSTEMS: REFER TO DIVISION 26 SPECIFICATIONS AND WIRING DEVICE SCHEDULES FOR INSTALLATION REQUIREMENTS. MOUNTING HEIGHTS SHOWN ARE TYPICAL HEIGHTS. REFER TO DRAWINGS, ARCHITECTURAL ELEVATIONS, DRAWINGS AND SPECIFICATIONS FOR ACTUAL MOUNTING HEIGHTS.

SYMBOL	MOUNTING	DESCRIPTION	ROUGH-IN MATERIALS
E	WALL, VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT	EMERGENCY PHONE OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING. MOUNT AT ELECTRICAL SWITCH HEIGHT, OR AS NOTED. VERIFY ROUGH-IN PRIOR TO INSTALLATION. PROVIDE VIKING MODEL 1600-02A.
(#) (A)	WALL	DATA OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING. MOUNT AT ELECTRICAL OUTLET HEIGHT, OR AS NOTED. (A) INDICATES 'ABOVE COUNTER'.
G	WALL/RACK	AV RACK OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH DOUBLE GANG MUD RING.
F	FURNITURE	FURNITURE OUTLET	COORDINATE WITH FURNITURE PROVIDED
C	ON CEILING DECK IN ACCESSIBLE CEILING AREAS, AND FLUSH IN CEILIN IN HARD-LID CEILING AREAS 1	DATA OUTLET, WIRELESS	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING.
W 1	WALL AT ELECTRICAL SWITCH HEIGHT	WALL PHONE OUTLET	4-11/16" SQUARE, DEEP JUNCTION BOX WITH SINGLE GANG MUD RING.
	FLOOR	OPEN RAIL DATA EQUIPMENT RACK	FURNISHED AND INSTALLED BY DATA INSTALLER
S 1	FLOOR	SERVER OR AV RACK	FURNISHED AND INSTALLED AS NOTED
	WALL	TELEPHONE BOARD	SEE ARCHITECTURAL ELEVATIONS
	FLOOR/CEILING	CABLE TRAY	PROVIDE SIZE AS NOTED AND DIMENSIONED, TRAPEZE HUNG
	CEILING	LADDER RUNWAY	FURNISHED AND INSTALLED BY DATA INSTALLER
FB#	FLOOR	FLOOR BOX	SEE 'EP' SHEETS
PT#	FLOOR	POKE THRU	SEE 'EP' SHEETS

"A" INDICATES ABOVE COUNTER MOUNTING

GENERAL SHEET NOTES

1. ALL VOICE-DATA OUTLETS ARE TO BE MOUNTED WITHIN 6" OF A POWER OUTLET.
2. ALL VOICE/DATA ROUGH-IN IS TO BE IN COMPLIANCE WITH ANSI/TIA/EIA 569-A.
3. IN EACH DATA ROOM PROVIDE A 2"x12" COPPER GROUNDING BUSS BAR WITH A #2 AWG GROUNDING CONDUCTOR TO THE BUILDING GROUND.
4. FOR ALL FLOOR BOXES AND CONDUIT TERMINATIONS TO FURNITURE VERIFY EXACT LOCATION W/ARCHITECT AND FURNITURE SUPPLY PRIOR TO INSTALLATION. 1

SHEET KEYNOTES

1. PROVIDE 0.75" THICK X 8" HIGH FIRE-TREATED, PAINTED PLYWOOD ON ALL WALLS OF COMMUNICATIONS ROOMS.
2. TYPICAL VOICE-DATA OUTLETS. PROVIDE 4-11/16" X 4-11/16" JUNCTION BOX WITH SINGLE GANG MUD RING. MOUNT AT ELECTRICAL OUTLET OR AS NOTED (TYPICAL FOR SYMBOLS SHOWN).
3. STUB CONDUITS TO ACCESSIBLE CEILING. 1
4. STUB 2 EACH, 4" CONDUIT SLEEVES THROUGH WALL ABOVE CEILING INTO COMMUNICATIONS ROOM.
5. NOT USED. 1
6. STUB CONDUITS TO ROOF. PROVIDE FLASHING, CAP, AND POKE-THRU.
7. TYPICAL FLOOR BOX APPLIES TO ALL FLOOR BOX TYPES INDICATED ON PLANS.
8. PROVIDE CONDUIT WHETHER OR NOT DATA SYMBOL IS SHOWN.
9. FURNITURE TERMINATION.
10. 4-11/16" SQUARE JUNCTION BOX LOCATED AT FURNITURE RACEWAY ENTRANCE.
11. TYPICAL POKE-THRU APPLIES TO ALL POKE-THRU TYPES INDICATED ON PLANS.
12. STUBBED TO CABLE TRAY BELOW.
13. TYPICAL VOICE-DATA OUTLETS. PROVIDE 4-11/16" X 4-11/16" JUNCTION BOX WITH DOUBLE GANG MUD RING. MOUNT AT ELECTRICAL OUTLET OR AS NOTED (TYPICAL FOR SYMBOLS SHOWN).

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AUDIO AND VIDEO SYSTEM EQUIPMENT LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE ELECTRONIC SYSTEMS INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SYMBOL	DESCRIPTION	QUANTITY	ACCEPTABLE TYPES - SEE SPECIAL PROJECT NOTE 1
CS	CONTROL SYSTEM	OFP	CRESTRON AV2
TP	TOUCH PANEL, 36", COLOR W/ SIDE BUTTONS. ARCHITECT TO SELECT COLOR	OFP	CRESTRON TPS-4L SEE DETAIL 10/TA501
	MICROPHONE GENERAL PURPOSE W/ SWITCH AND CORD	4	SHURE BETA 58A-S ELECTRO-VOICE
	50' MICROPHONE CORD	4	PROCO M-50 WHIRLWIND MK4-50
	MICROPHONE FLOOR STAND	2	ATLAS SOUND MS-20E WHIRLWIND STNDMD
	LECTERN MICROPHONE GOOSENECK W/BASE	2	SHURE MX418D/S AUDIO TECHNICA AT8666 RSC/ES915ML
AD / WR	WIRELESS MICROPHONE SYSTEM FOR ASSEMBLY TRANSMITTER, HAND HELD	OFP	SHURE ULXS2/SM58 SENNHEISER SK535 G2
	TRANSMITTER, BODY WORN W/ LAPEL AND HEAD WORN ELEMENTS	OFP	SHURE ULXS4/ULX1/WL183/WH30TQG SENNHEISER EW500G2/SKM500G2/ME2/ME3
	RECEIVER W/ DUAL RACK MOUNT KIT	OFP	SHURE UA507 SENNHEISER GA2
	ANTENNA DISTRIBUTION SYSTEM W/ ANTENNAS, CABLE AND ALL REQUIRED ACCESSORIES	A/R	SHURE UA844/UA870 W/ UA8100 SENNHEISER EWANT4RG2
ALS	ASSISTIVE LISTENING SYSTEM, R.F.	OFP	LISTEN LS-03-72 COMTEK CC-75LD
LM	LINE LEVEL MIXER, BALANCED	OFP	RADIO DESIGN LABS ST-MX3 EXTRON MUX 301
ADA	AUDIO DISTRIBUTION AMPLIFIER WITH POWER SUPPLY	OFP	RADIO DESIGN LABS RU-BDA3 EXTRON MDA 3A
AI	AUDIO INTERFACE, DUAL CHANNEL	A/R	RADIO DESIGN LABS STA-1 EXTRON DAS101CM
PROC	AUDIO PROCESSOR, AUTOMIXER, EQUALIZER	OFP	BSS LONDON BLU 100 W/ BOB
	BRAIDED, EXPANDABLE SLEEVING, BLACK, NOTE 11	A/R	PANDUIT TECH FLEX
	POWER AMPLIFIER, DUAL CHANNEL, 15W PER CHANNEL	OFP	EXTRON MPA 152
	POWER AMPLIFIER, DUAL CHANNEL, 300W PER CHANNEL, 70.7V	OFP	QSC CX602V CROWN CTS600
S	SPEAKER W/TRANSFORMER, GRILLE, BACKCAN, AND TILE BRIDGE	OFP	ATLAS SOUND FAP62T
S	WALL SPEAKER W/ MOUNT, WHITE	OFP	JBL CONTROL 28T-60W
IR	INFRARED SENSORS	OFP	IVIE IR-3 (1)
WC1	WALL CONTROLLER #1 W/ RS-232, ETHERNET, IR, RELAYS	OFP	CRESTRON MPC-M10 SEE DETAIL 5/TA501
WC2	WALL CONTROLLER #2 W/ RS-232, ETHERNET, IR, RELAYS	OFP	CRESTRON MPC-M10 SEE DETAIL 6/TA501
WC3	WALL CONTROLLER #3 W/ RS-232, ETHERNET, IR, RELAYS	OFP	CRESTRON MPC-M10 SEE DETAIL 7/TA501
WC4	WALL CONTROLLER #4 W/ RS-232, ETHERNET, IR, RELAYS	OFP	CRESTRON MPC-M25 (1) ~~SEE DETAIL 8/TA501~~
BRP	BLU-RAY PLAYER, RS-232 W/ RMK	OFP	DENON DBP-2012UDCIP (1)

A/R = AS REQUIRED OFP = OBTAIN FROM PLANS RMK = RACK MOUNT KIT

AUDIO AND VIDEO SYSTEM EQUIPMENT LIST (CON'T)

SYMBOL	DESCRIPTION	QUANTITY	ACCEPTABLE TYPES - SEE SPECIAL PROJECT NOTES 1 & 2
CP1 / CP2	CONNECTION PANELS #1, #2	OFP	EXTRON ADAPTER PLATES AS DETAILED SEE DETAILS 1,2/TA501
CP3 / CP4	CONNECTION PANELS #3, #4	OFP	CUSTOM SEE DETAIL 3,4/TA501
FBAV	CONNECTION PANEL, AV FLOOR BOX,	OFP	EXTRON ADAPTER PLATES AS DETAILED SEE DETAILS 9/TA501
1	VIDEO/DATA PROJECTOR W/1 REPLACEMENT LAMP & FILTER, 5500 LUMENS. PROVIDE LENS APPROPRIATE FOR THROW DISTANCE, SEE NOTE 13. 16:9 ASPECT RATIO	OFP	MITSUBISHI WL7200U
2	VIDEO/DATA PROJECTOR W/1 REPLACEMENT LAMP & FILTER, 4000 LUMENS. PROVIDE LENS APPROPRIATE FOR THROW DISTANCE, SEE NOTE 13. 16:9 ASPECT RATIO	OFP	MITSUBISHI FD630U
	PROJECTOR CEILING MOUNT KIT, PROVIDE PIPE, COUPLERS, STEEL, ADAPTORS, UNISTRUT, THREADED ROD, FASTENERS, ANCHORS, AND ANY OTHER REQUIRED COMPONENTS TO SPAN STRUCTURE, AIR DUCTS, EXTEND/REDUCE SUPPORT SYSTEM FOR APPROPRIATE ELEVATION AS NEEDED FOR INSTALLATION OF THE SPECIFIED DEVICE. SECURE PROJECTORS TO MOUNTS UTILIZING SECURITY SCREWS.	OFP	CHIEF RPA PREMIER MOUNTS
	MOUNTING SHELF, POLE MOUNT	OFP	EXTRON PMK 350
SC	SCREEN, FRONT PROJECTION, ELECTRIC ROLL UP, WITH RECESS MOUNTED ENCLOSURE, 16:9 ASPECT RATIO, SEE SCREEN MATRIX FOR SIZE & 18" OF BLACK DROP, HIGH CONTRAST MATTE WHITE, PROVIDE MATTE WHITE IN SIZES WHERE HIGH CONTRAST MATERIAL IS NOT AVAILABLE, LOW VOLTAGE CONTROLLER, WALL SWITCH.	OFP	DA-LITE ADVANTAGE ELECTROL SCREEN STEWART VISIONARY ELECTRIC
M55	FLAT PANEL DISPLAY, 55", LED-LCD, 1920x1080, RS-232, HDMI, VGA, EXTERNAL SPEAKERS	~~OFP~~	~~SAMSUNG DE55A~~
		OFP	BOSTON ACOUSTIC TVee MOLDEL 25 (1)
	WALL MOUNT BRACKET	~~OFP~~	~~CHIEF XTMU~~
M70	FLAT PANEL DISPLAY, 70", LED-LCD, 1920x1080, RS-232, HDMI, VGA, EXTERNAL SPEAKERS	OFP	SAMSUNG 700DXN-2 (1)
	~~WALL MOUNT BRACKET~~	~~OFP~~	~~CHIEF XTMU~~
T42	FLAT PANEL DISPLAY, 42", TOUCH SCREEN, 1080p	OFP	CYBERTOUCH ORION 04282U
	WALL MOUNT BRACKET	OFP	CHIEF XTMU
M32	FLAT PANEL DISPLAY, 32", LCD		OWNER PROVIDED (1)
RLA	RGBHV LINE AMPLIFIER	A/R	EXTRON P/2 DA1 ANALOG WAY DUAL SPLITTER (1)
1	EQUIPMENT RACK #1, WALL MOUNTED W/ FRONT DOOR AND TOP (1)	OFP	MIDDLE ATLANTIC SR-24-28
2 / 3	EQUIPMENT RACK #2, #3, WALL MOUNTED W/ FRONT DOOR AND TOP (1)	OFP	MIDDLE ATLANTIC SRSR-2-12
	CUSTOM RACK MOUNT KIT, NOTE 10	A/R	MIDDLE ATLANTIC PRODUCTS RSH SERIES
	MATCHING TRANSFORMER	A/R	RADIO DESIGN LABS TX-1A PRO CO LOT-1
	SECURITY CABLES, ADHESIVES, MOUNTING PLATES, TAMPER PROOF RACK SCREWS, CABLE TRAPS, AND PADDLE LOCKS, NOTE 12	A/R	
TVSS / PLS	TRANSIENT VOLTAGE SURGE SUPPRESSOR W/ PLUGSTRIP "PLS" UL LISTED	A/R	SURGEX SA20 LOWELL ACSP2004
TVSS1 / PLS	TRANSIENT VOLTAGE SURGE SUPPRESSOR W/ PLUGSTRIP "PLS" UL LISTED	A/R	SURGEX SA82 FLATPAK
	ADAPTOR CABLE, NOTE 9	A/R	EXTRON LIBERTY
	PATCH CORDS, NOTE 6	A/R	VARIOUS
	FAN OUT CABLE, NOTE 9	A/R	EXTRON STVGA LIBERTY A-VGAX-XXXXX
RC1	HDMI TWISTED PAIR RECEIVER #1	A/R	EXTRON MTP/HDMI UR
RC2	RGB TWISTED PAIR RECEIVER #2	A/R	EXTRON MTP R 15 HD A D
RC3	HDMI TWISTED PAIR RECEIVER #3	A/R	EXTRON HDMI 201 A D RX
HS4 (1)	HDMI SWITCHER W/ EDID MINDER, 4x1, REMOTE CONTROL (1)	OFP	EXTRON SW4 HDMF (1)
HAD	HDMI AUDIO DE-EMBEDDER	OFP	EXTRON HAE100
HMS	HDMI MATRIX SWITCHER, 8x4	OFP	EXTRON DXP-84HDMI
RMS	VGA MATRIX SWITCHER W/ AUDIO	OFP	EXTRON MVX84VGA A
VMS	VIDEO MATRIX SWITCHER W/ AUDIO	OFP	EXTRON MMX 42 AV
RS2	VGA SWITCHER, 2x1 W/ AUDIO	OFP	EXTRON VSW 2VGA-A
TX1	HDMI TWISTED PAIR TRANSMITTER #1	OFP	EXTRON HDMI 201 A D Tx
TX2	RGB TWISTED PAIR TRANSMITTER #2	OFP	EXTRON MTP T 15HD A D
CPU	COMPUTER		OWNER FURNISHED (1)
	~~AUDIO-VIDEO SYSTEM CABLE REQUIREMENTS SCHEDULE~~	~~A/R~~	~~SEE CABLE SCHEDULE ON SHEET TA002~~

A/R = AS REQUIRED OFP = OBTAIN FROM PLANS RMK = RACK MOUNT KIT

AUDIO-VIDEO SHEET INDEX

SHEET NO	SHEET TITLE
TA001	AUDIO-VIDEO EQUIPMENT LIST AND NOTES
TA002	AUDIO-VIDEO SCHEDULES
TA501	AUDIO-VIDEO DETAILS
TA601	AUDIO-VIDEO DIAGRAMS

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS. THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

"A"	AUDIO
"A/R"	AS REQUIRED
"ADJ"	ADJACENT
"C"	CONDUIT
"CAT"	CATEGORY
"CFI"	CONTRACTOR FURNISHED AND INSTALLED
"CV"	COMPOSITE VIDEO
"E"	ENHANCED
"EA"	EACH
"EX"	EXISTING
"GR"	GROUND
"I.O.F."	INSTALLATION OF OWNER FURNISHED EQUIPMENT
"L"	LEFT AUDIO CHANNEL, LINE LEVEL
"MIC"	MIC LEVEL AUDIO
"N.I.C."	NOT IN CONTRACT
"OFCI"	OWNER FURNISHED AND CONTRACTOR INSTALLED
"OFI"	OWNER FURNISHED AND INSTALLED
"OFP"	OBTAIN FROM PLANS
"QTY"	QUANTITY
"OP"	OWNER PROVIDED
"R"	RIGHT AUDIO CHANNEL, LINE LEVEL
"RGBHV"	COMPUTER VIDEO
"RMK"	RACK MOUNT KIT
"RU"	RACK UNIT, 1.75"
"TYP"	TYPICAL
"V"	VOLT
"W/"	WITH
"YC"	S-VIDEO

SPECIAL PROJECT NOTES

1. THE AUDIO AND VIDEO SYSTEM EQUIPMENT LIST FOUND ON SHEET TA001 IDENTIFIES EQUIPMENT ITEMS OF SIGNIFICANCE BY MANUFACTURER AND MODEL NUMBER. THE SOLE PURPOSE FOR THIS IS TO ESTABLISH LEVELS OF QUALITY AND INDIVIDUAL COMPONENT CAPABILITY FOR ALL EQUIPMENT ITEMS. IT IS NOT THE INTENT OF THE AUDIO AND VIDEO SYSTEM EQUIPMENT LIST TO PRECLUDE THE INSTALLATION OF EQUIPMENT ITEMS FABRICATED BY MANUFACTURERS OTHER THAN THOSE LISTED, SO FAR AS THEY ARE EQUAL TO THOSE EQUIPMENT ITEMS IDENTIFIED IN THE LIST. IF BIDDERS WISH TO FURNISH AND INSTALL ITEMS OTHER THAN THOSE IDENTIFIED IN THE AUDIO AND VIDEO SYSTEM EQUIPMENT LIST, APPROVAL MUST BE OBTAINED DURING THE BIDDING PROCESS. TO THIS END, A SUBSTITUTION REQUEST PROCESS IS IDENTIFIED IN THE DIVISION 1 SPECIFICATIONS FOR OBTAINING APPROVAL TO FURNISH AND INSTALL EQUAL EQUIPMENT ITEMS. THE SPECIFICATIONS AND COMPONENT CAPABILITY OF ALL PROPOSED EQUAL EQUIPMENT ITEMS THAT ARE SUBMITTED IN FULL COMPLIANCE WITH THE SUBSTITUTION REQUEST PROCESS WILL BE STRICTLY EVALUATED DURING THE BIDDING PROCESS. FINAL DECISIONS REGARDING ALL EQUIPMENT SUBSTITUTION REQUESTS WILL BE MADE BY THE AV SYSTEM DESIGNER.

GENERAL AV NOTES

1. CONDUCT AN RF FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTION OF WIRELESS RF OPERATING FREQUENCIES. SELECT FREQUENCIES TO ASSURE INTERFERENCE FREE OPERATION. INSTALL ANTENNAS/TRANCEIVERS OUTSIDE OF THE EQUIPMENT RACK, AT AN ARCHITECT APPROVED LOCATION, WHERE THE BEST SYSTEM PERFORMANCE IS ACHIEVED.
2. FILL ALL UNUSED RACK SPACE WITH BLANK/VENT PANELS.
3. INSTALL ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE ABOVE CEILINGS. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
4. PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES AND/OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT.
5. FURNISH AND INSTALL ALL CABLE AND CONNECTORS REQUIRED FOR ALL AUDIO AND VIDEO SYSTEMS TO COMPLETE MANUFACTURER RECOMMENDED CABLE TO EQUIPMENT TERMINATION TO FORM A COMPLETE AND FULLY FUNCTIONAL SYSTEM AS SHOWN. SELECT CONNECTORS WHICH PASS FULL BANDWIDTH CAPABILITY OF SPECIFIED CABLE. PROVIDE CABLE TYPES AS IDENTIFIED IN THE AUDIO/VIDEO CABLE SCHEDULE.
6. PROVIDE PATCH CABLES TO FULLY INTERCONNECT ALL SPECIFIED AND/OR OWNER FURNISHED EQUIPMENT WITH THE SPECIFIED CONNECTION PANELS, SYSTEM INTERFACES, AND MISCELLANEOUS EQUIPMENT.
7. PROVIDE MANUFACTURER RECOMMENDED, AND INDUSTRY STANDARD, SIGNAL LEVELS AND COMMUNICATION PROTOCOLS THROUGHOUT ENTIRE SYSTEM REGARDLESS OF CABLE LENGTHS. PROVIDE ALL REQUIRED DISTRIBUTION AND PROCESSING EQUIPMENT, INCLUDING BUT NOT LIMITED TO SIGNAL DISTRIBUTION AMPLIFIERS, LINE AMPLIFIERS, LINE DRIVERS, EQUALIZING AMPLIFIERS, GROUND/HUM ISOLATORS, MATCHING/ISOLATION TRANSFORMERS, CONTROL BUS DEVICES, COMMUNICATIONS CONVERTORS, ETC..., WHETHER SHOWN IN THE SINGLE LINE DIAGRAMS OR NOT.
8. PROVIDE POWER, CURRENT, AND/OR SIGNAL SENSORS FOR ALL EQUIPMENT WHERE IT IS NECESSARY FOR CORRECT CONTROL SYSTEM OPERATION.
9. PROVIDE PRE-MANUFACTURED ADAPTER CABLES WHERE REQUIRED FOR MATING CABLE TO CONNECTORS. THESE WILL INCLUDE, BUT ARE NOT LIMITED TO, ADAPTERS WHICH MATE RGBHV CABLE TO 15 PIN HD CONNECTORS, TWO VIDEO CABLES TO 4 PIN DIN CONNECTORS, AND OTHER SIMILAR TERMINATION REQUIREMENTS.
10. PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. WHERE MANUFACTURERS DO NOT PROVIDE RACK MOUNT KITS, PROVIDE CUSTOM RACK MOUNT KITS AS SPECIFIED.
11. WHERE ANY CABLE IS INSTALLED IN A FASHION WHERE EXPOSED TO PUBLIC VIEW, INSTALL CABLE INSIDE THE SPECIFIED BRAIDED EXPANDABLE SLEEVING. EXAMPLES OF SUCH LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO EQUIPMENT ITEMS ON LECTERNS AND CEILING MOUNTED PROJECTORS.
12. UNLESS OTHERWISE NOTED SECURE, EVERY PIECE OF A/V SYSTEM EQUIPMENT SUCH THAT IT CANNOT BE REMOVED BY UNAUTHORIZED PERSONS. SECURED EQUIPMENT SHALL INCLUDE, BUT NOT LIMITED TO WALL MOUNTED SPEAKERS, PROJECTORS, MONITORS, TOUCH PANELS, DOCUMENT CAMERAS, CAMERAS, OWNER FURNISHED CPU'S & MONITORS, ALL RACK MOUNTED EQUIPMENT, AND ALL EQUIPMENT INSTALLED IN/ON LECTERNS AND OTHER MILLWORK. UTILIZE THE SPECIFIED SECURITY CABLE AND PADDLE LOCK SYSTEM. SUBMIT PROPOSED ADHESIVE MOUNTING LOCATION DURING SUBMITTAL PROCESS. DO NOT SECURE KEYBOARDS AND MICE. IN ADDITION AFFIX ALL LECTERN RACK MOUNTED EQUIPMENT W/TAMPER-PROOF RACK SCREWS. USE KENSINGTON LOCKS WHERE AVAILABLE ON SPECIFIED EQUIPMENT.
13. LOCATE AND INSTALL PROJECTOR AND SCREEN SUCH THAT THE IMAGE SIZE SPECIFIED IN THE PROJECTION SCREEN SCHEDULE IS ACHIEVED. PROVIDE APPROPRIATE LENS FOR IMAGE SIZE AND THROW DISTANCE.
14. IF AN INSTANCE IS ENCOUNTERED WHERE CABLE MUST BE INSTALLED INSIDE OF AN AIR PLENUM, FURNISH THE PLENUM RATED EQUIVALENT TO THE CABLE SPECIFIED.
15. REFER TO 'EJ' SHEETS FOR DEVICE LOCATIONS AND CONDUIT ROUTING.

LICENSED PROFESSIONAL ENGINEER — STATE OF UTAH
01/18/2012

UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION

METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone: (801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
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revisions :

1	ADDENDUM 2	02/10/2012

Audio-Video Equipment List and Notes

sheet: TA001

100% Construction Documents

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AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

TYPICAL CLASSROOM MONITOR DISPLAY (A125, A201, A207)

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
FBAV	M55	H	1	
		G	1	
		V	1	
		L	4	
WC1	M55	C	3	

AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

CAFETERIA/BOOKSTORE & LOBBY

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
CP4	S	M	1	
		L	2	
CP1	M70	H	1	
		G	1	
		V	1	
		L	4	
M70	S	L	2	
		C	1	
		D	6	
WC4	S	C	2	
WC4	M70	C	2	
S	S	S	1	FOLLOW CIRCUITING ON FLOOR PLANS
T42	S			

AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

STANDARD CLASSROOMS A126, A127, B224

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
CP1	2	H	1	
		G	1	
		L	5	
WC2 WC3	2	C	3	
S	2	S	1	
	WC2 WC3	C	1	

AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

TV DISTRIBUTION

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
	SERVER S205	T	1	COIL 15'-0" IN SERVER ROOM AND LABEL
SERVER S205	CABLE PROV. DEMARC	TR	1	COIL 15'-0" IN SERVER ROOM AND LABEL
FP	SERVER S205	T	1	COIL 15'-0" IN SERVER ROOM AND LABEL

AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

MULTI-PURPOSE B103

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
CP3	2	M	2	
FBAV	2	L	5	
		G	1	
		H	1	
1	2	D	5	
		C	1	
		V	1	
CP2	2	D	5	
		S	1	
	2	C	1	
SC		C	1	
S	2	S	1	FOLLOW CIRCUITING ON FLOOR PLANS
TP	2	C	1	
		D	1	
IR	2	D	1	
2	BLINDS	C	1	
2	LIGHTING CONTROL	C	1	
M70	2	D	5	
2	5	C	1	
		D	5	

TOOELE APPLIED TECHNOLOGY COLLEGE SCREEN SCHEDULE

ROOM NAME	ROOM #	CEILING HEIGHT	PROJ. SCREEN OR FLAT PANEL	PROJECTED IMAGE HEIGHT	PROJECTED IMAGE WIDTH	APPROX. PROJECTOR THROW DISTANCE *	FLAT PANEL SIZE (DIAGONAL)	ASPECT RATIO	COMMENTS
CPR	A125	10'-0"	FP				55"	16:9	
CONTROL	A119	10'-0"	FP				32"	16:9	NO BACKOX
CONTROL	A119	10'-0"	FP				32"	16:9	NO BACKOX
CONTROL	A119	10'-0"	FP				32"	16:9	NO BACKOX
LPN/CNA CLASSROOM	A126	10'-0"	PS	65"	116"	8' - 12'		16:9	MOTORIZED
RN CLASSROOM	A127	10'-0"	PS	65"	116"	8' - 12'		16:9	MOTORIZED
MULTI-PURPOSE ROOM	B103	11'-0"	PS	90"	160"	12' - 16'		16:9	MOTORIZED
MULTI-PURPOSE ROOM	B103	11'-0"	PS	90"	160"	12' - 16'		16:9	MOTORIZED
CAFETERIA	B111	12'-6"	FP				70"	16:9	
BIT LAB	A201	10'-0"	FP				55"	16:9	
IT CLASSROOM	A207	10'-0"	FP				55"	16:9	
BOARDROOM	B224	10'-0"	PS	78"	139"	8' - 12'			MOTORIZED

AUDIO-VIDEO SYSTEMS CABLE REQUIREMENTS SCHEDULES

ELECTRONIC SYSTEMS CABLE SCHEDULE

CABLE TYPE	DESCRIPTION	ACCEPTABLE TYPES (NOTE #1)	SPECIAL INSTRUCTIONS
M	MICROPHONE CABLE, 22 AWG, SHIELDED, TWISTED PAIR W/ DRAIN	BELDEN 82761 LIBERTY 22-IP-CMP-EZ-WHY	NOTE 14
L	LINE LEVEL CABLE, 22 AWG, SHIELDED, TWISTED PAIR W/ DRAIN	BELDEN 82761 LIBERTY 22-IP-CMP-EZ-WHY	NOTE 14
S	SPEAKER CABLE, 70 V, 16 AWG, TWISTED PAIR	WEST PENN 25225 LIBERTY 16-2C-TTP	NOTE 14
V	VIDEO CABLE, 75 OHM, COAXIAL, RG 59	WEST PENN 25816	NOTE 14
R	RGBHV CABLE, 5 COAXIAL, HIGH RESOLUTION	LIBERTY RGB5C-SD-PLN	NOTE 14
C	CONTROL CABLE, 24 AWG, 4 PAIR, OVERALL SHIELD	BELDEN 88104 WEST PENN D252404	NOTE 14
D	DATA CABLE, CATEGORY 5E PLENUM RATED, YELLOW	MOHAWK M57550	NOTE 14
T	TV DISTRIBUTION CABLE, RG-6, COAXIAL	WEST PENN 25841	NOTE 14
TR	TV DISTRIBUTION CABLE, RG-11 COAXIAL	WEST PENN 25821	NOTE 14
H	HDMI CABLE	EXTRON HDMI PRO	NOTE 14. PROVIDE EXTRON HDMI 101 CABLE EQUALIZER, OR CONVERT HDMI CABLES TO TWISTED PAIR WITH APPROPRIATE CONVERTERS AND CABLING AS REQUIRED TO MEET HDMI 10.2Gps STANDARD
	MISC CABLE, MANUFACTURER RECOMMENDED	EXTRON LIBERTY	NOTE 14
	"J" HOOKS FOR ALL CABLE INSTALLED OUTSIDE OF CONDUIT	CADDY CLIP	INSTALL AT MAXIMUM 4' INTERVALS FROM DEDICATED SUPPORT HANGERS
G	VGA CABLE, PRE-TERMINATED, PLENUM	EXTRON VGAP-M-F BK/XX	USE SHORTEST LENGTH POSSIBLE. ENSURE CABLE END FITS IN CONDUIT SHOWN ON SHEET EJ601.

LICENSED PROFESSIONAL ENGINEER No. 7162 STATE OF UTAH

01/18/2012

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METHOD STUDIO INC.

925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS

324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :

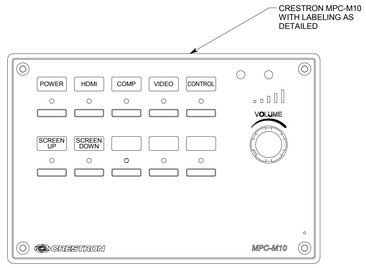
1 ADDENDUM 2 02/10/2012

Audio-Video Schedules

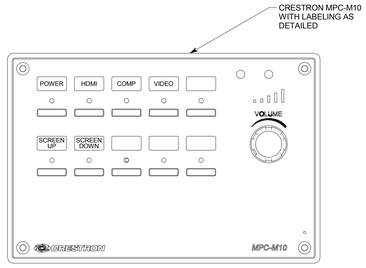
sheet:

TA002

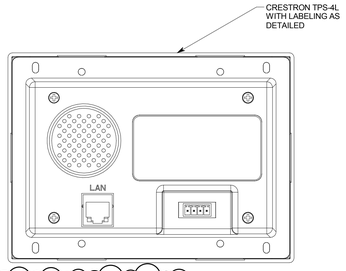
100% Construction Documents



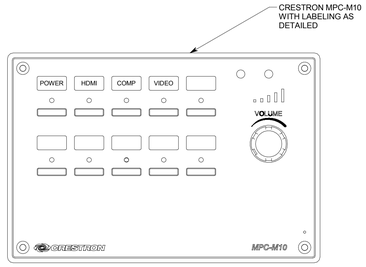
7 WALL CONTROLLER #3 DETAIL
NTS
WC3



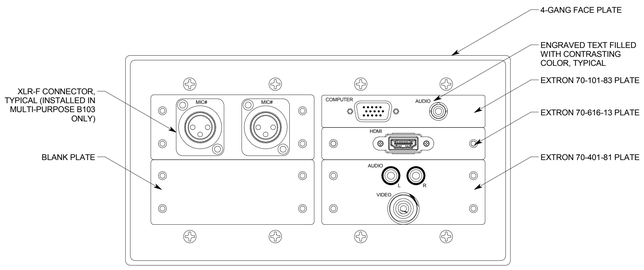
6 WALL CONTROLLER #2 DETAIL
NTS
WC2



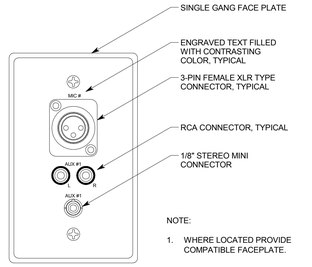
10 TOUCH PANEL CONTROL DETAIL
NTS
TP



5 WALL CONTROLLER #1 DETAIL
NTS
WC1



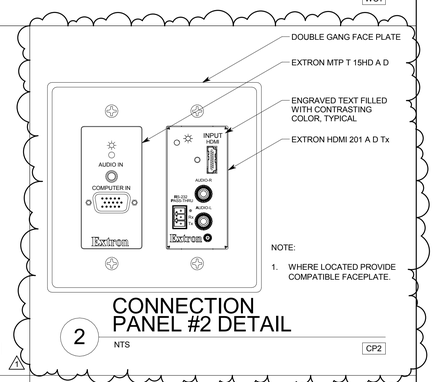
9 AUDIO-VIDEO FLOOR BOX DETAIL
NTS
FBAV



NOTE:

1. WHERE LOCATED PROVIDE COMPATIBLE FACEPLATE.

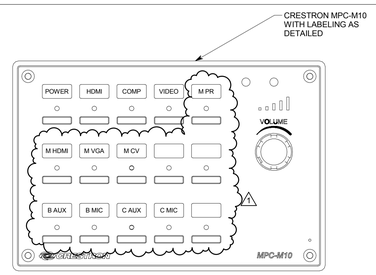
4 CONNECTION PANEL #4 DETAIL
NTS
CP4



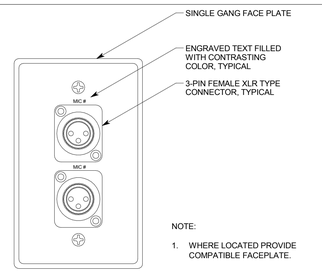
NOTE:

1. WHERE LOCATED PROVIDE COMPATIBLE FACEPLATE.

2 CONNECTION PANEL #2 DETAIL
NTS
CP2



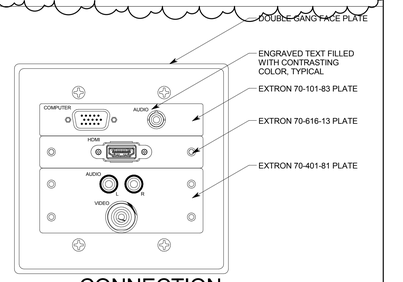
8 WALL CONTROLLER #4 DETAIL
NTS
WC4



NOTE:

1. WHERE LOCATED PROVIDE COMPATIBLE FACEPLATE.

3 CONNECTION PANEL #3 DETAIL
NTS
CP3



1 CONNECTION PANEL #1 DETAIL
NTS
CP1

2/10/2012 12:49:17 PM C:\Users\rbk\Desktop\Revit Local Files\2012\20110211 Elec Central_rbk.rvt

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project:
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88 South Tooele Blvd
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project#: 11.0420
date: 1/20/2012

revisions:

1	ADDENDUM 2	02/10/2012

Audio-Video Details

sheet:

TA501

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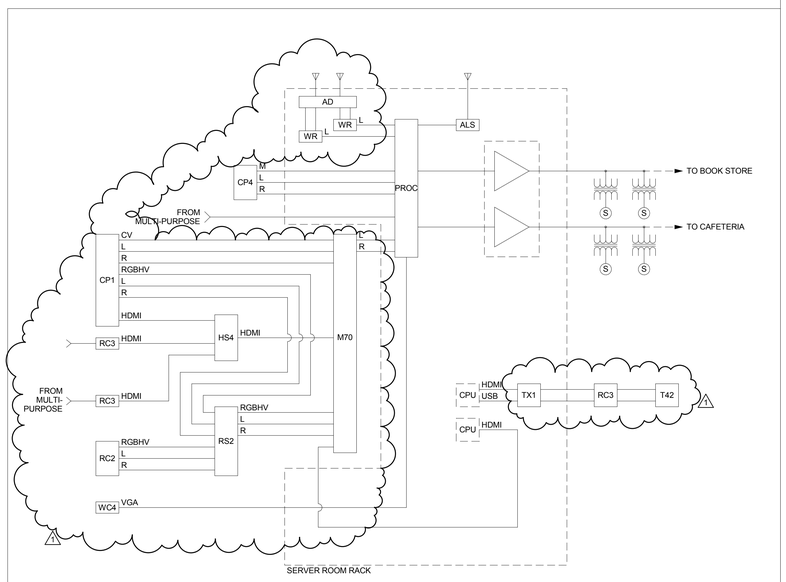
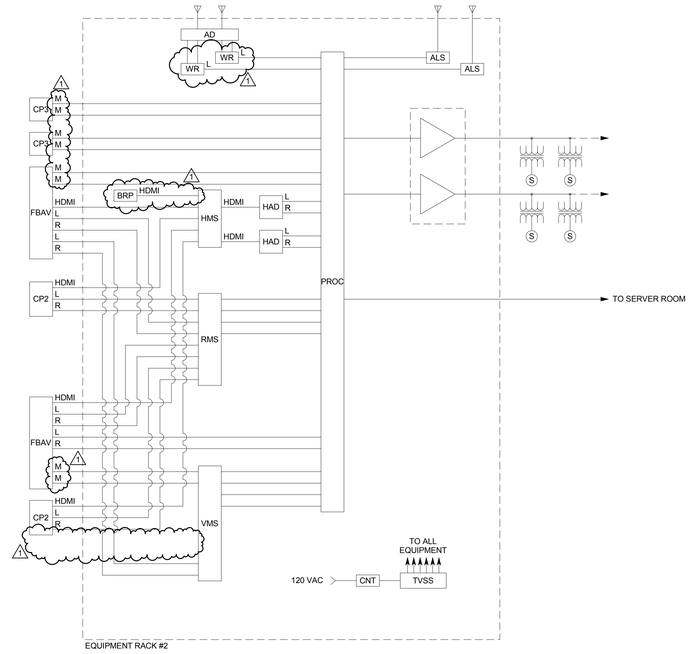


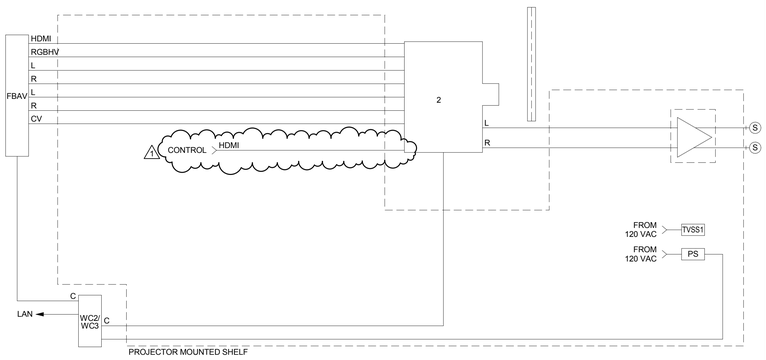
6 CAFETERIA/BOOKSTORE SYSTEM AUDIO-VIDEO RISER DIAGRAM

NTS



3 MULTI-PURPOSE ROOM B103 AUDIO RISER DIAGRAM

NTS

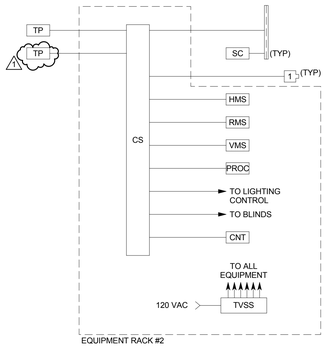


NOTE:

1. IF REQUIRED, MOUNT PLENUM RATED DEVICES SHOWN IN SHELF ABOVE CEILING.

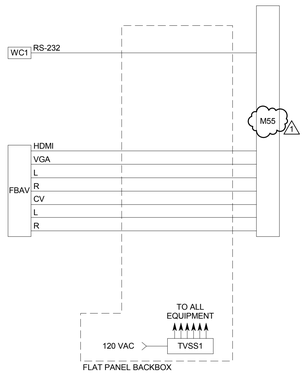
5 STANDARD CLASSROOM AUDIO-VIDEO-CONTROL RISER DIAGRAM W/ PROJECTOR

NTS - (TYPICAL OF LPN/CNA CLASSROOM A126, AND RN CLASSROOM A127)



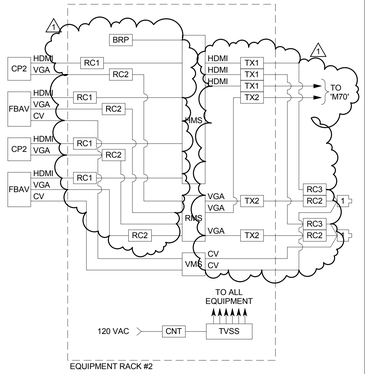
4 MULTI-PURPOSE ROOM B103 CONTROL RISER DIAGRAM

NTS



2 STANDARD CONF. ROOM AV-CONTROL DIAGRAM

NTS - (TYPICAL OF ROOMS A125, A201, A207)



1 MULTI-PURPOSE ROOM B103 VIDEO RISER DIAGRAM

NTS

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revisions :

1	ADDENDUM 2	02/10/2012

Audio-Video Diagrams

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TA601

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VOICE-DATA EQUIPMENT/CABLE LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SYMBOL	DESCRIPTION	ACCEPTABLE TYPES
FPP	FIBER OPTIC PATCH PANEL - BLACK, (QUANTITIES OF PORTS AS REQUIRED +25%)	SEE SPECIFICATIONS
	6 PORT DUPLEX LC FIBER PANEL CARD, BLACK	SEE SPECIFICATIONS
	BLANK FIBER PANEL CARD, BLACK	SEE SPECIFICATIONS
DPP	PATCH PANEL, DATA (QUANTITIES OF PORTS AS REQUIRED +25%)	SEE SPECIFICATIONS
	BUS BAR, 10" x 20" W/ LUGS AND MOUNTING ACCESSORIES	CHATSWORTH 10822-019/020
D(#)	STATION CABLE, DATA, CATEGORY 6A, WHITE	SEE SPECIFICATIONS
F(#)	OUTDOOR FIBER, HYBRID, 12 STRAND SINGLE MODE AND 12 STRAND 50 MICRON LASER OPTIMIZED MULTIMODE	SEE SPECIFICATIONS 1
FB#	VOICE-DATA OUTLET FLOOR MOUNTED (PROVIDE BEZEL COMPATIBLE WITH FLOOR BOX OR POKE THROUGH	SEE SPECIFICATIONS
	BEZEL INSERTS	SEE SPECIFICATIONS
PT#	CATEGORY 6 JACK-DATA (4), (6), (X). (PROVIDE CABLE AND JACK QUANTITIY INDICATED BY SUBSCRIPT (X) WHEN INDICATED ON DRAWING) 1	SEE SPECIFICATIONS
C	DATA OUTLET SINGLE GANG BEZEL (C = CEILING MOUNTED)	SEE SPECIFICATIONS
	BEZEL INSERTS	SEE SPECIFICATIONS
	CATEGORY 6 JACK-DATA (1) 1	SEE SPECIFICATIONS
(X) F	VOICE-DATA OUTLET SINGLE GANG BEZEL (F = FURNITURE MOUNTED)	SEE SPECIFICATIONS
	BEZEL INSERTS	SEE SPECIFICATIONS
	CATEGORY 6 JACK-DATA (2), (X). (PROVIDE CABLE AND JACK QUANTITIY INDICATED BY SUBSCRIPT (X) WHEN INDICATED ON DRAWING) 1	SEE SPECIFICATIONS
W	WALL PHONE OUTLET SINGLE GANG BEZEL	SEE SPECIFICATIONS
1	BEZEL INSERTS	SEE SPECIFICATIONS
	CATEGORY 6 JACK-DATA (1)	SEE SPECIFICATIONS
E	EMERGENCY CALL BUTTON SINGLE GANG BEZEL	VIKING E-1600-30A
	TELEPHONE BOARD, 3/4 INCH, FIRE TREATED, PAINTED WHITE	SEE SPECIFICATIONS 1
	CABLE RUNWAY-12", BLACK	CHATSWORTH 10250-712
	CABLE RUNWAY-18", BLACK	CHATSWORTH 10250-718
	CABLE RUNWAY RADIUS DROP, BLACK	CHATSWORTH 12100-712
	BUTT SPLICE KIT, BLACK	CHATSWORTH 11301-001
	JUNCTION SPLICE KIT, BLACK	CHATSWORTH 11302-001
	ADJ. JUNCTION SPLICE KIT, BLACK	CHATSWORTH 10616-001
	FOOT KIT, BLACK	CHATSWORTH 11309-701
	3" CHANNEL RACK TO RUNWAY, BLACK	CHATSWORTH 10595-712
	TRIANGLE BRACKETS 12", BLACK	CHATSWORTH
	EQUIPMENT RACK, OPEN FRAME 19", BLACK	CHATSWORTH 55053-703
S	SERVER RACK	OWNER FURNISHED, CONTRACTOR INSTALLED
PS	EQUIPMENT RACK POWER STRIP, 20A	LEVITON 5500-192
VWM	VERTICAL WIRE MANAGERS, BLACK, SIDE & CENTER	SEE SPECIFICATIONS
HWM	HORIZONTAL WIRE MANAGERS, BLACK, 2 RU	SEE SPECIFICATIONS
	COPPER CATEGORY 6 PATCH CABLES	SEE SPECIFICATIONS
	CAT 6 J-HOOKS	CADDY CAT32Z34
	FIBER CONNECTOR, LC, MULTI-MODE	SEE SPECIFICATIONS
	FIBER OPTIC PATCH CABLES, MULTI-MODE, LC TO LC	SEE SPECIFICATIONS
	1" INNERDUCT-PLENUM RATED	SEE SPECIFICATIONS

NOTE: ALL RACKS, LADDER, PATCH PANELS, AND ACCESSORIES SHALL BE BLACK IN COLOR.

GENERAL VOICE-DATA NOTES

1. SEE 'ES', 'EJ', AND 'EP' SHEETS FOR LAYOUTS AND ADDITIONAL INFORMATION.
2. PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
3. ALL CABLE, REGARDLESS OF LENGTH, INSTALLED UNDER THIS CONTRACT ARE TO BE LABELED.
4. THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING WHICH IS REQUIRED AS PART OF THIS CONTRACT. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO ALL CABLE LABELING, AND ALL EQUIPMENT LABELING.
5. FOR EVERY CABLE PULL SPECIFIED, COIL 10' OF EXCESS CABLE AT THE AT THE CLOSET END, NEATLY COIL, AND LABEL.
6. UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS INSTALLED ABOVE ACCESSIBLE CEILINGS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
7. GROUND ALL EQUIPMENT RACKS AS DETAILED.
8. ALL CABLE, FIBER, AND UTP TO TERMINATE ON BOTH ENDS.
9. COORDINATE RACK LAYOUTS WITH OWNER PRIOR TO INSTALLATION.
10. WELL IN ADVANCE OF INSTALLATION, COORDINATE WORK WITH ALL OTHER TRADES SO THAT ELECTRICAL EQUIPMENT, OR ITS INTENDED USE, IS NOT OBSTRUCTED BY EQUIPMENT BEING PROVIDED BY OTHER DIVISIONS.
11. INSTALL ALL ELECTRONIC SYSTEMS EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM BUILDING STRUCTURE. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
12. 'A' INDICATES MOUNTING ABOVE COUNTER. VERIFY HEIGHT OF POWER OUTLET AND MOUNT DATA OUTLET NEXT TO POWER OUTLET.
13. ALL DATA OUTLETS ON WALLS AND FLOORS SHALL BE MOUNTED WITHIN 6" OF A POWER OUTLET. IF CONTRADICTIONS ARISE ON PLANS, NOTIFY ENGINEER.
14. FOR ALL 4" CONDUITS SPECIFIED FOR TELECOMMUNICATIONS, PROVIDE 4 EACH 1" INNERDUCTS.
15. STRUCTURED CABLING SHALL COMPLY WITH TATC STANDARDS AND SHALL BE SYSTIMAX CABLE AND THE CONNECTIVITY IN THE RACK SHALL BE VISIPATCH SYSTEM.
16. TYPICAL OF ALL LOCATIONS ON PLANS.
17. SEE 'EJ' SHEETS FOR LOCATION OR WALL CONNECTION PANEL "WC#."
18. FOR ALL DATA CABLES IN FLOOR BOXES AND POKE-THRU'S VERIFY TERMINATION OF CABLE WITH FLOOR BOX OR POKE-THRU WITH FURNITURE. WHERE DATA CABLE CAN SLEEVE INTO FURNITURE TERMINATE TO LOCATION SUPPLIED BY FURNITURE MANUFACTURER. WHERE CONDUIT OR POKE-THRU IS A SLEEVE INTO FURNITURE OR MILLWORK PROVIDE A SURFACE MOUNT BOX WITH A FACEPLATE FOR TERMINATION OF CABLES.

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01/18/2012

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revisions :
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Telecom Schedules and Notes

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TT001

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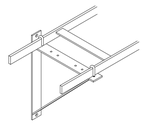
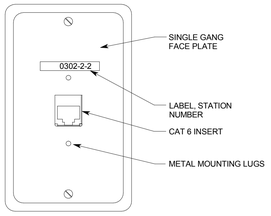
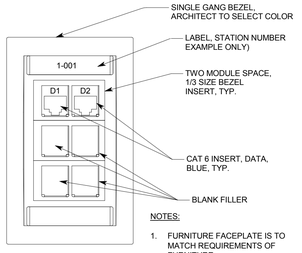


12 TRIANGLE BRACKET DETAIL
NTS

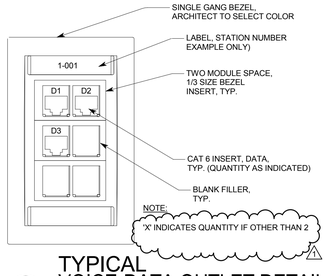


10 WALL MOUNTED PHONE PLATE DETAIL
NTS

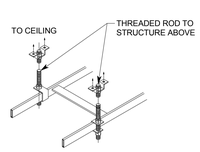


NOTES:
1. FURNITURE FACEPLATE IS TO MATCH REQUIREMENTS OF FURNITURE.

5 TYPICAL VOICE-DATA OUTLET DETAIL
NTS

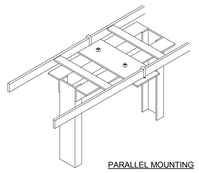


4 TYPICAL VOICE-DATA OUTLET DETAIL
NTS



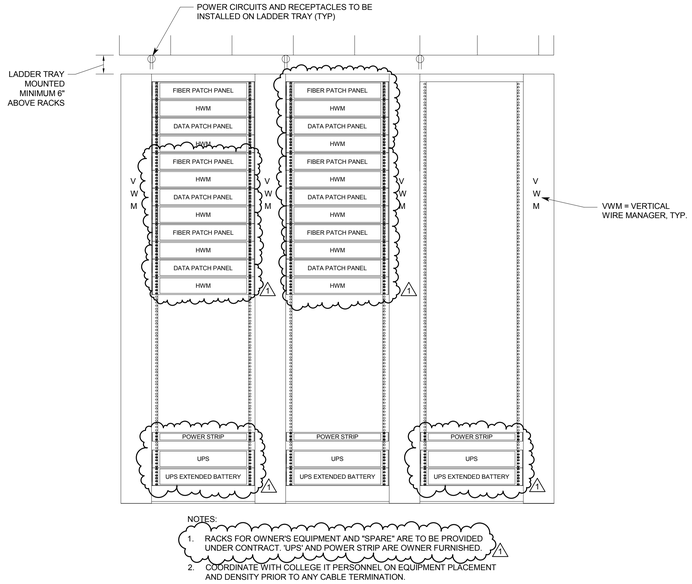
USE THIS ONLY IN OPEN AREAS WITHOUT EQUIPMENT RACKS. ATTACH LADDER RACK TO EQUIPMENT RACK TOPS WHENEVER POSSIBLE.

11 OVERHEAD SUPPORT DETAIL
NTS



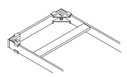
PARALLEL MOUNTING

9 3" CHANNEL RACK-TO-RUNWAY MOUNT
NTS

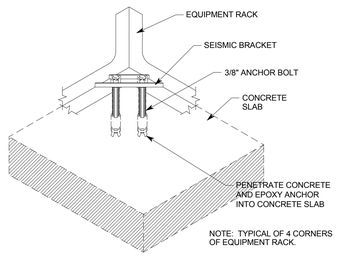


NOTES:
1. RACKS FOR OWNER'S EQUIPMENT AND "SPARE" ARE TO BE PROVIDED UNDER CONTRACT. 'UPS' AND POWER STRIP ARE OWNER FURNISHED.
2. COORDINATE WITH COLLEGE IT PERSONNEL ON EQUIPMENT PLACEMENT AND DENSITY PRIOR TO ANY CABLE TERMINATION.

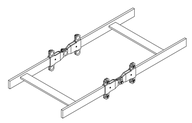
3 RACK ELEVATIONS FOR MAIN SERVER ROOM
NTS



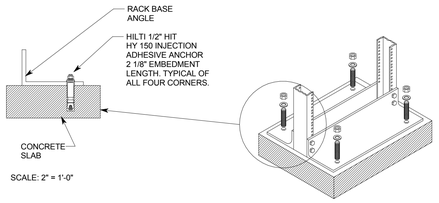
15 CABLE RUNWAY END CLOSING DETAIL
NTS



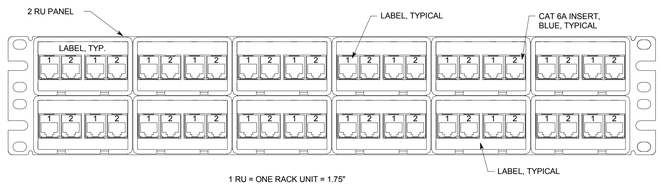
8 EQUIPMENT RACK SEISMIC BRACING
NTS



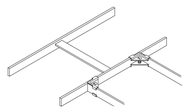
14 SWIVEL SPLICE KIT FOR ELEVATION TRANSITION
NTS



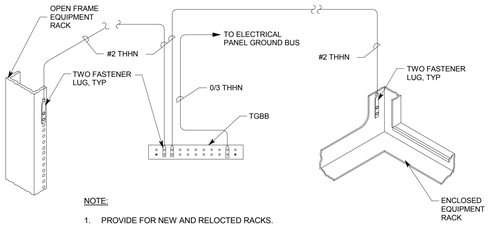
7 EQUIPMENT RACK ANCHORAGE DETAIL
NTS



2 PATCH PANEL DETAIL (PP), 48 PORT, TYPICAL
NTS

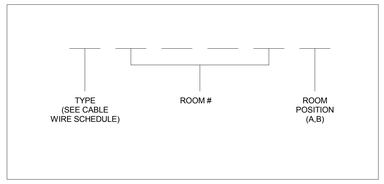


13 CABLE RUNWAY SPLICE DETAIL
NTS



NOTE:
1. PROVIDE FOR NEW AND RELOCTED RACKS.

6 TYPICAL RACK GROUNDING DETAIL
NTS



NOTES:

1. ALL CABLE/WIRE, REGARDLESS OF LENGTH, SHALL BE LABELED WITH A UNIQUE IDENTIFYING CODE. LABEL SHALL BE PERMANENT AND SHALL BE MACHINE PRINTED (NOT HAND PRINTED). SUBMIT PROPOSED LABEL MATERIAL FOR APPROVAL.

2. PRIOR TO LABEL CREATION, SUBMIT FOR APPROVAL PROPOSED ROOM NUMBER SCHEME FOR CABLE LABELS.

1 CABLE LABEL DETAIL
NTS

01/18/2012

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0410
date: 1/20/2012

revisions :
1 ADDENDUM 2 02/10/2012

Telecom Details

sheet:
TT501

100% Construction Documents

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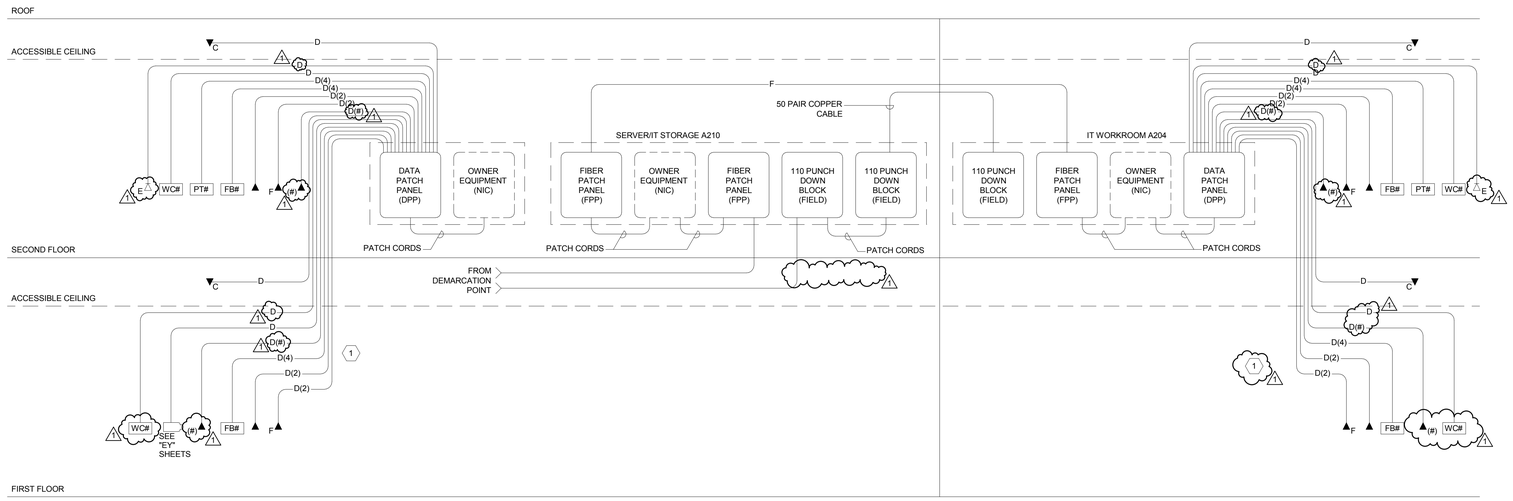
SHEET KEYNOTES

1. ROUTE ALL DATA WITHIN SHOP AREAS TO IT WORKROOM A204. ALL OTHER DATA WITHIN DISTANCE SHALL BE ROUTED TO THE SERVER ROOM A210.



1 VOICE-DATA SINGLE LINE RISER DIAGRAM

NTS

01/18/2012

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :
1 ADDENDUM 2 02/10/2012

Telecom Diagrams

sheet:

TT601

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SECTION 114000 – FOODSERVICE EQUIPMENT

PART – 4 ITEMIZED LIST OF EQUIPMENT

ITEM #K-01	STAINLESS STEEL MOP SINK: PROVIDED BY PLUMBING SECTION
Quantity:	(1) each
Manufacturer:	Verify with Supplier
Model Number:	Verify with Supplier
Dimensions:	Verify with Supplier (25”W x 23”D x 27”H (36” to top of back splash)
Utility Requirements:	Verify Utility Requirements with Supplier A) 1/2” hot and cold water. B) 1-1/2” indirect drain to floor sink.
Accessories:	Verify with Supplier
Installation Instructions:	A) Set and level as per plan. B) Clip and seal back splash to wall.

ITEM #K-02	STAINLESS STEEL JANITORIAL WALL CABINET
Quantity:	(1) each
Manufacturer:	Custom Fabricated
Model Number:	Custom
Dimensions:	34”W x 14”D x 36”H
Utility Requirements:	None
Accessories:	A) As per plan and details. B) Stainless steel hinged doors with locks. C) Angled stainless steel top and finished stainless steel ends.
Installation Instructions:	A) Mount to wall with bottom at +54” a.f.f.

ITEM #K-03	STAINLESS STEEL THREE COMPARTMENT SINK
Quantity:	(1) each
Manufacturer:	Custom Metal Fabricated
Model Number:	Custom, as per plans and details.
Dimensions:	7’-2”W x 27”D x 37”H
Utility Requirements:	A) 1/2” Hot and cold water. B) 1-1/2” Indirect drain.
Accessories:	A) (1) 12” swing faucet with integral cross check valve. B) (3) Lever handle drains. C) (3) 16” x 20” sink compartments. D) (2) 18” drain boards.
Installation Instructions:	A) Set and level as per plan. B) Clip and seal back splash to wall.

ITEM #K-04	PRE-RINSE SPRAY
Quantity:	(1) each
Manufacturer:	T&S Brass
Model Number:	#B-0133-B
Dimensions:	36”H
Utility Requirements:	A) ½” hot and cold water.
Accessories:	A) Provide wall bracket. B) Splash Mount. C) Provide add-on 12” swing faucet
Installation Instructions:	A) Mount to Three Compartment Sink, item #K-03, as per plan.

ITEM #K-05	STAINLESS STEEL POT RACK
Quantity:	(1) each
Manufacturer:	Advance Tabco
Model #:	#SW-84.
Dimensions:	84’W x 1’-3”D.
Utility Requirements:	None
Accessories:	A) Provide with (3) mounting brackets. B) Includes (18) Hooks
Installation Instructions:	A) Mount to wall at +78” A.F.F. as per plan. (Verify height with operator.) B) General Contractor to provide blocking in wall as required.

ITEM #K-06	UNDER COUNTER DISHWASHER with BOOSTER HEATER
Quantity:	(1) each
Manufacturer:	Hobart
Model Number:	#LXi-4H
Dimensions:	24”W x 27”D x 34” H.
Utility Requirements:	A) 3/4” Hot Water Connection. 120 Degrees F. Minimum. 20 to 25 PSI required. B) 3/4” indirect drain to floor sink. C) 120-208/60/1, 37.7 amp.
Accessories:	A) Built in Electric Booster Heater. B) Stainless steel finished sides and top. C) 70 degree rise in rinse water. D) Power cord kit. E) Pressure regulator valve
Installation Instructions:	A) Set and level as per plan. B) Mount under right drainboard of three compartment sink, item #K-04, as per plan.

ITEM #K-07	ICE MAKER and BIN
Quantity:	(1) each
Manufacturer:	Manitowoc
Model Number:	#IY-0854A
Dimensions:	30”W x 25”D x 27”H (34”D x 77”H with Bin)
Utility Requirements:	A) 3/8” cold water. B) 1/2” indirect drain to floor sink. (Ice Maker). C) 1/2” indirect drain to floor sink. (Ice Maker). D) 3/4” Indirect drain to floor sink. (Bin). E) 208/60/1, 11.9 amp.
Accessories:	A) Stainless steel finish. B) 940 lb ice production capacity per 24 hours. C) Provide filter for incoming water. D) Self contained, air cooled unit. E) Provide ice bin #B-570. 430 lb capacity.
Installation Instructions:	A) Water pressure to be 20 to 80 psi. B) Mount to Bin as per plan.

ITEM #K-08	STORAGE SHELVING
Quantity:	(1) lot
Manufacturer:	Inter Metro
Model Number:	Super Erecta, Brite
Dimensions:	(2) 60”W x 24”D x 86”H (1) 48”W x 24”D x 86”H
Utility Requirements:	None
Accessories:	A) Lot to include: (10) #2460BR shelves (5) #2448BR shelves (8) #86BR posts (20) #9995Z ‘S’ clips
Installation Instructions:	A) Assemble, set and level as per plan. (Verify actual field dimensions for compliance.)

ITEM #K-09 SPARE NUMBER

ITEM #K-10 SPARE NUMBER

ITEM #K-11 STAINLESS STEEL WORK COUNTER
SEE ADD/ALT #6 at END of SPECIFICATION

ITEM #K-12 STAINLESS STEEL BREAD RACK GUIDES ADD/ALT #6
SEE ADD/ALT #6 at END of SPECIFICATION

ITEM #K-13	STAINLESS STEEL WALL SHELF SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-14	STAINLESS STEEL EXHAUST HOOD SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-15	FIRE PROTECTION SYSTEM SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-16	SIX BURNER RANGE WITH CONVECTION SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-17	STAINLESS STEEL GRILL STAND COUNTER SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-18	REFRIGERATED GRILL STAND SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-19	FLAT TOP GRILL SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-20	SPARE NUMBER	
ITEM #K-21	SALAMANDER BROILER SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-22	UNDERFIRE BROILER SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-23	STAINLESS STEEL WORK COUNTER SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-24	MICROWAVE OVEN SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6
ITEM #K-24A	STAINLESS STEEL MICROWAVE SHELF SEE ADD/ALT #6 at END of SPECIFICATION	ADD/ALT #6

ITEM #K-25 ROTARY TOASTER ADD/ALT #6

SEE ADD/ALT #6 at END of SPECIFICATION

ITEM #K-26 KITCHEN SHELVING

Quantity: (1) lot
Manufacturer: Inter Metro
Model Number: Super Erecta, Brite
Dimensions: (1) 54”W x 24”D x 86”H
(2) 48”W x 18”D x 86”H
Utility Requirements: None
Accessories: A) Lot to include: (5) #2454BR shelves
(10) #1848BR shelves
(10) #86BR posts
(10) #9995Z ‘S’ clips
Installation Instructions: A) Assemble, set and level as per plan. (Verify actual field dimensions for compliance.)

ITEM #K-27 WALK-IN COOLER/FREEZER BOX

Quantity: (1) lot
Manufacturer: Kolpack
Model Number: #NS (Nominal Size)
Dimensions: Freezer: 9’-8”W x 4’-10”D x 8’-4”H as per plan
Cooler: 9’-8”W x 6’-9”D x 8’-4”H as per plan
Utility Requirements:
A) 115/60/1, 2.8 amps at door. Interconnect with (3) vapor proof lights. (1) in freezer and (2) in cooler.
B) 115/60/1, .2 amps, heated air vent at doors. (2) each
Accessories:
A) Provide (2) each 34” stainless steel door unit with view window.
B) Provide (1) additional vapor proof light for a total of (1) light at freezer box and (2) lights in cooler box.
C) Provide vacuum relief heated air vent at each door.
D) Provide stainless steel side trim to walls.
E) Common center wall between cooler and freezer.
F) Provide additional door hinge to each door.
G) Stainless steel finish on exposed exterior surface of box. Galvalume finish on all other exterior surfaces of box.
H) White galvalume finish on interior exposed surface of box.
I) Provide ‘Thermo Curtain’ at each door.
Installation Instructions:
A) Assemble and set in place as per plans to sub floor with PVC floor screeds.
B) General Contractor to provide floor tile and base.
C) Tile floor with base to be applied after box installation. Door height to compensate for floor tile dimension.
D) General Contractor to provide insulated floor system at freezer as per plans and details.

ITEM #K-28A	COOLER REFRIGERATION SYSTEM: CONDENSER
Quantity:	(1) system
Manufacturer:	Kolpak
Model Number:	#PR-99MOP-3 (Condenser)
Dimensions:	33”W x 26”D x 19”H
Utility Requirements:	A) 208/60/1, 7.5 amps, 1 H.P. B) Interconnect refrigeration lines with item #K-28B
Accessories:	A) Include: Pre piped Tecumseh hermetic compressors with dryers, sight glasses and head pressure controls; pre-wired electrical panel, defrost clock, pressure controls and crankcase heaters. (Verify all requirements with manufacturer). B) Interconnect with evaporator item #K-28B. C) Mount on roof approximately (42) LF horizontal run and (40) LF vertical run in chase provided as per plans. D) Size to maintain +35°F in box as per plan. E) Electrical Contractor to interconnect refrigeration system as required.
Installation Instructions:	A) Mount on roof approximately (42) LF horizontal run and (40) LF vertical run in chase provided. B) Interconnect refrigeration lines with blower Coil, item #K-28B. C) Set refrigeration equipment and provide and install expansion coils, T-Stat, solenoid valves. D) Provide and install refrigeration piping, insulation, fittings, hangers, supports and hook-ups. E) Charge each system with the refrigerant as specified by the manufacturer. F) Check, test, start up and final adjustments are to be provided. G) General Contractor to provide floor and wall penetrations and chase to connect refrigeration lines and chilled water system as required H) Electrical Contractor to interconnect refrigeration system as required.

ITEM #K-28B	COOLER REFRIGERATION SYSTEM: BLOWER COIL
Quantity:	(1) system
Manufacturer:	Kolpak
Model Number:	#AM28-97-A, (Evaporator) Size to run with Condenser, item #K-22A.
Dimensions:	42”W x 15”D x 16”H
Utility Requirements:	A) 120/60/1, 3.8 amp. B) Indirect drain to floor sink. C) Interconnect refrigeration lines with item #K-28A.
Accessories:	A) Mounting hardware. B) Size to maintain +35°F in box as per plan.

Installation Instructions:	A) Mount from Walk-In Box ceiling. B) Interconnect with Refrigeration Condenser Item #K-28A. C) Electrical Contractor to interconnect refrigeration system as required.

ITEM #K-29A	FREEZER REFRIGERATION SYSTEM: CONDENSER
Quantity:	(1) system
Manufacturer:	Kolpak
Model Number:	#PR-149LOP-3 (Condenser)
Dimensions:	26”W x 33”D x 20”H
Utility Requirements:	A) 208/60/3, 6.9 amps. 1 H.P. B) Interconnect refrigeration lines with item #K-29B.
Accessories:	A) Include: Pre piped Tecumseh semi-hermetic compressors with dryers, sight glasses and head pressure controls; pre-wired electrical panel, defrost clock, pressure controls and crankcase heaters. (Verify all requirements with manufacturer). B) Interconnect with blower coils, item #K-29B. C) Mount on roof approximately (42) LF horizontal run and (40) LF vertical run in chase provided. D) Size to maintain +0°F in box as per plan.
Installation Instructions:	A) Mount on roof approximately (42) LF horizontal run and (40) LF vertical run in chase provided. B) Interconnect refrigeration lines with blower Coil, item #K-29B. C) Set refrigeration equipment and provide and install expansion coils, T-Stat, solenoid valves. D) Provide and install refrigeration piping, insulation, fittings, hangers, supports and hook-ups. E) Charge each system with the refrigerant as specified by the manufacturer. F) Check, test, start up and final adjustments are to be provided. G) General Contractor to provide floor and wall penetrations and chase to connect refrigeration lines and chilled water system as required H) Electrical Contractor to interconnect refrigeration system as required. I) Electrical Contractor to provide defrost electrical inter-connect to freezer units.

ITEM #K-29B	FREEZER REFRIGERATION SYSTEM: EVAPORATOR
Quantity:	(1) system
Manufacturer:	Kolpak
Model Number:	Size to run with Condenser, item #K-29A.
Model Number:	#EL26-92-D (Evaporator). Size to run with Condenser, item #K-29A.
Dimensions:	46”W x 15”D x 16”H
Utility Requirements:	A) Fan: 208/60/1, 2 amps. Heater: 208/60/1, 8.7 amps. B) Indirect drain to floor sink. C) Interconnect refrigeration lines with item #K-29A.
Accessories:	A) Interconnect with condenser Item #K-29A. B) Mounting Hardware. C) Size to maintain +0°F in box as per plan.
Installation Instructions:	A) Mount from walk-in ceiling. B) Interconnect with Refrigeration Condenser, #K-29A as part of pre-assembled remote system. C) Electrical Contractor to interconnect refrigeration system as required including defrost cycle.

ITEM #K-30	WALK-IN BOX SHELVING
Quantity:	(1) lot
Manufacturer:	Inter Metro
Model Number:	Super Erecta, Zinc
Dimensions:	(2) 72”W x 24”D x 86”H (4) 54”W x 24”D x 86”H (1) 42”W x 24”D x 86”H
Utility Requirements:	None
Accessories:	A) Lot to include: (8) #2472BR shelves. (16) #2454BR shelves. (4) #2442BR shelves. (28) #86P posts.
Installation Instructions:	A) Assemble, set and level as per plan. (Verify actual field dimensions for compliance.)

ITEM #K-31	WALL MOUNT HAND SINK
Quantity:	(1) each
Manufacturer:	Advance
Model Number:	#7-PS-61
Dimensions:	17”W x 15”D x 13”H
Utility Requirements:	A) 1/2” hot and cold water. B) 1-1/2” direct drain.
Accessories:	A) Provide with basket drain. B) Provide with electronic faucet
Installation Instructions:	A) Clip and seal to wall as per plan. B) General Contractor to provide blocking in wall as required.

ITEM #K-32	REFRIGERATED FOOD PREP TABLE
Quantity:	(1) each
Manufacturer:	True
Model Number:	#TSSU-60-24M-B-ST
Dimensions:	61”W x 34”D x 41”H
Utility Requirements:	A) 115/60/1, 7.8 amps.
Accessories:	A) Stainless steel finish. B) Self contained, air cooled refrigeration. C) (24) 1/6 pan insert top configuration. D) Set of heavy-duty locking casters.
Installation Instructions:	A) Set in place as per plan.

ITEM #K-33	STAINLESS STEEL SERVICE COUNTER
Quantity:	(1) each
Manufacturer:	Custom Metal Fabricated
Model Number:	Custom, as per plans and details.
Dimensions:	6’-5”W x 3’-0”D x 36”H.
Utility Requirements:	None
Accessories:	A) 6” back splash. B) Stainless steel bottom and intermediate shelf at right side. C) Finished left end of cabinet base. D) Provide stainless steel apron at drop-in food warmer, item #K-34.
Installation Instructions:	A) Set and level as per plan. B) Clip and seal back splash to wall.

ITEM #K-34	FOOD WARMER
Quantity:	(1) each
Manufacturer:	Randell
Model Number:	#9560-2
Dimensions:	32”W x 26”D x 14”H
Utility Requirements:	A) 208/60/1, 10.6 amp. B) 3/4” Indirect drain to floor sink. C) 3/8” Cold water.
Accessories:	A) Drain with lever operated drain valve at compartment. B) Thermostat controls. C) Wet or dry operation per compartment. D) Auto water fill feature. E) (2) Compartments.
Installation Instructions:	A) Build into Service Counter, item #K-33, as per plan. B) Mount controls to back apron of Serving Counter. C) Plumbing contractor to install lever drain controls at each drain near front of counter base for easy access.

ITEM #K-35	PANINI GRILL: DOUBLE
Quantity:	(1) each
Manufacturer:	Lang
Model Number:	#PB-24-6.
Dimensions:	24”W x 14”D x 13”H
Utility Requirements:	A) 208/60/1, 15.6 amps
Accessories:	A) Standard Features.
Installation Instructions:	A) Set in place as per plans.

ITEM #K-36	STAINLESS STEEL WORK TABLE
Quantity:	(1) each
Manufacturer:	Custom Metal Fabricator
Model Number:	Custom, as per plans and details
Dimensions:	84”W x 30”D x 36”H
Utility Requirements:	None.
Accessories:	A) 6” back splash. B) Stainless steel under shelf. C) (1) Drawer mounted at right. D) Provide stainless steel apron at built in sink, item #K-37.
Installation Instructions:	A) Set and level as per plan. B) Clip and seal back splash to wall.

ITEM #K-37	STAINLESS STEEL UTILITY SINK
Quantity:	(1) each
Manufacturer:	Custom Metal Fabricator
Model Number:	Custom, as per plans and details.
Dimensions:	15”W x 18”D x 12”D
Utility Requirements:	A) ½” hot and cold water. B) 1-1/2” indirect drain.
Accessories:	A) (1) each deck mount lever handle faucet. B) Drain stop with built in overflow. C) Weld into stainless steel top.
Installation Instructions:	A) Build into work table, item #K-36, as per plan.

ITEM #K-38	STAINLESS STEEL WALL SHELF
Quantity:	(1) each
Manufacturer:	Custom Metal Fabricator
Model Number:	Custom, as per plans and details.
Dimensions:	7’-0”W x 1’-2”D.
Utility Requirements:	None
Accessories:	A) Provide with (3) mounting brackets.
Installation Instructions:	A) Mount to wall at +60” A.F.F. as per plan. Verify clearance above beverage equipment below. B) General Contractor to provide blocking in wall as required.

ITEM #K-39	SLICER
Quantity:	(1) each
Manufacturer:	Hobart
Model Number:	#2612P
Dimensions:	20”W x 23”D x 17”H
Utility Requirements:	A) 115/60/1, 1/2 HP
Accessories:	A) Standard Features.
Installation Instructions:	A) Set in place as per plans.

ITEM #K-40 SPARE NUMBER

ITEM #K-41	STAINLESS STEEL SERVICE COUNTER
Quantity:	(1) each
Manufacturer:	Custom Metal Fabricated
Model Number:	Custom, as per plans and details.
Dimensions:	12’-0”W x 3’-0”D x 36”H.
Utility Requirements:	None
Accessories:	A) 6” back splash. B) Stainless steel bottom shelf. C) Finished ends of cabinet base. D) Provide stainless steel apron with lower sliding doors at drop-in Soup Warmers, item #K-46. E) Sliding stainless steel cabinet doors.
Installation Instructions:	A) Set and level as per plan. B) Clip and seal back splash to wall. C) Build into counter refrigerator, item #K44.

ITEM #K-42	STAINLESS STEEL PASS SHELF
Quantity:	(1) each
Manufacturer:	Custom Metal Fabricated
Model Number:	Custom, as per plans and details.
Dimensions:	5’-10”W x 1’-6”D. As per plan.
Utility Requirements:	None
Accessories:	A) Mount to top of low wall +4’6” a.f.f. B) Provide angle support brackets as per details.
Installation Instructions:	A) Mount to top of wall at +54” a.f.f., as per plan. B) General Contractor to provide wall and blocking in wall as required.

ITEM #K-43	STAINLESS STEEL PASS SHELF
Quantity:	(1) each
Manufacturer:	Custom Metal Fabricated
Model Number:	Custom, as per plans and details.
Dimensions:	7’-9” x 3’-10” ‘L’ x 1’-0”D. As per plan.
Utility Requirements:	None
Accessories:	A) Mount to top of low wall +4’0” a.f.f. B) Provide angle support brackets as per details.
Installation Instructions:	A) Mount to top of wall at +48” a.f.f., as per plan. B) General Contractor to provide wall and blocking in wall as required.

ITEM #K-44	UNDERCOUNTER REFRIGERATOR
Quantity:	(1) each
Manufacturer:	True
Model Number:	#TUC-27
Dimensions:	28”W x 30”D x 36”H
Utility Requirements:	A) 115/60/1, 3.9 amps.
Accessories:	A) Stainless steel finish. B) Self contained air-cooled refrigeration. C) Provide with door locks. D) Provide with set of casters.
Installation Instructions:	A) Set under Service Counter, item #K-41, as per plans. (Verify clearance under counter).

ITEM #K-45	ESPRESSO MACHINE
Quantity:	(1) each
Manufacturer:	EGRO
Model Number:	ONE Touch Top Milk XP
Dimensions:	24”W x 23”D x 31”H.
Utility Requirements:	A) 1/2” cold water. B) 1” Indirect drain to floor sink. C) 110/230/60/1, 0.5kW/6.7 kW.
Accessories:	A) Dual bean grinders. B) Milk fridge. C) Hot water outlet with simultaneous coffee, hot water and steam delivery. D) Touch pad. E) Water filtration system in counter base.
Installation Instructions:	A) Set in place on Service Counter as per plan. B) Provide water filter for Plumbing Contractor to install.

ITEM #K-46	SOUP WARMER
Quantity:	(2) each
Manufacturer:	Wells
Model Number:	#SS-10-D
Dimensions:	12” Diameter x 9”H
Utility Requirements:	A) 3/4” indirect drain to floor sink. B) 120/60/1, 6.7 amps.
Accessories:	A) Individual thermostat control. B) Drain kit.
Installation Instructions:	A) Build into Serving Counter, item #K-41, as per plans. B) Mount switch in apron of Serving Counter base cabinet apron.

ITEM #K-47	STAINLESS STEEL UTILITY SINK
Quantity:	(1) each
Manufacturer:	Custom Metal Fabricator
Model Number:	Custom, as per plans and details.
Dimensions:	15”W x 18”D x 12”D
Utility Requirements:	A) ½” hot and cold water. B) 1-1/2” indirect drain.
Accessories:	A) (1) each deck mount lever handle faucet. B) Drain stop with built in overflow. C) Weld into stainless steel top.
Installation Instructions:	A) Build into service counter, item #K-41, as per plan.

ITEM #K-48 SPARE NUMBER

ITEM #K-49 SPARE NUMBER

ITEM #K-50 SPARE NUMBER

ITEM #K-51	REAR LOAD MERCHANDISING REFRIGERATOR: TWO DOOR REACH-IN
Quantity:	(1) each
Manufacturer:	True
Model Number:	#GDM-49RL
Dimensions:	54”W x 33”D x 79”H
Utility Requirements:	A) 115/60/1, 7.3 amps.
Accessories:	A) Self contained, air-cooled refrigeration. B) Black finish with finished sides and back. Verify finish with architect. C) Door locks. D) Exterior thermometer. E) White interior finish.
Installation Instructions:	A) Set in place as per plan.

ITEM #K-52	REFRIGERATED and DRY DISPLAY CASE
Quantity:	(1) each
Manufacturer:	Structural Concepts
Model Number:	#HMBC5
Dimensions:	62”W x 34”D x 57”H
Utility Requirements:	A) 220/60/1, 17.28 amp.
Accessories:	A) Black interior. B) Plastic Laminate finish as per interior design selection C) Self contained, air-cooled refrigeration. D) Provide with cord and plug. E) NSF-7 approved. F) Provide with condensate evaporator. G) Service dry top/Self Serve refrigerated bottom. H) Full depth riser for lower display. I) Wire security cover with lock. J) Lower rear sliding doors with locks.
Installation Instructions:	A) Set and level as per plan

ITEM #K-53	DROP-IN CUP DISPENSERS: COLD BEVERAGES
Quantity:	(6) each
Manufacturer:	San Jamar
Model Number:	#C5450C.
Dimensions:	3-1/8”– 4-5/8” Rim Diameter x 23-3/4”D
Utility Requirements:	None
Accessories:	A) Verify requirements with operator and cups being used.
Installation Instructions:	A) Build into face of Service Counter, item #MW-1. B) Verify size to fit Owners cups. C) Coordinate requirements with counter fabricator.

ITEM #K-54	SODA/ICE DISPENSER: PROVIDED BY VENDER
Quantity:	(1) each
Manufacturer:	By Vender
Model Number:	By Vender
Dimensions:	Verify with Vender (30”W x 31”D x 40”H)
Utility Requirements:	Verify Utility Requirements with Vender A) 120/60/1, 3.5 amps. B) 1/2” Cold water. C) 1” Indirect drain to floor sink.
Accessories:	Verify with Vender A) Catch pan drain. B) Integral cold plate. C) Provide with carbonator. D) Verify regulators required for carbonated and non-carbonated valves, with owner. E) (10) Fast flow valves. F) Lever actuated valves. G) Provide with mounting adapter at top to fit Icemaker, item #K-14. H) Vender to provide water filter for Plumbing Contractor to install.
Installation Instructions:	A) Vender to set in place on Beverage Service Counter as per plan. B) Vender to interconnect soda lines from soda chase to syrup boxes. C) Verify all requirements with Vender.

ITEM #K-54A	SYRUP RACK: PROVIDED BY VENDER
Quantity:	(1) lot
Manufacturer:	By Vender
Model Number:	Verify with Vender
Dimensions:	30”W x 21”D x 78”H (Verify with Vender)
Utility Requirements:	A) 120/60/1, 10 amp (Verify with Vender)
Accessories:	A) As per Vender
Installation Instructions:	A) Set in place as per plan. B) Verify all requirements with Vender.

ITEM #K-55	ICE MAKER
Quantity:	(1) each
Manufacturer:	Manitowoc
Model Number:	#IY-0854A
Dimensions:	30”W x 25”D x 27”H
Utility Requirements:	A) 208/60/1, 9.2 amps. B) 3/8” Cold water. C) 1/2” Indirect drain to floor sink.
Accessories:	A) Stainless steel finish. B) Provide filter for incoming water. C) Mounting adapter to fit to Soda/Ice Dispenser, item #K-54. D) Self contained, air-cooled system. E) 700 lb. Ice production per 24 hours. F) CEE Listed.
Installation Instructions:	A) Water pressure to be 7-113 PSIG. B) Mount to Soda/Ice Dispenser, item #K-54, as per plan. C) Coordinate installation with Soda/Ice Dispenser, item #K-54.

ITEM #K-56	COFFEE BREWING SYSTEM: PROVIDED BY VENDER
Quantity:	(1) each
Manufacturer:	By Vender
Model Number:	Verify with Vender
Dimensions:	12”W x 17”D x 29”H. Verify with Vender.
Utility Requirements:	Verify Utility Requirements with Vender. A) ½” cold water. B) 208/60/1, 20 amps. Verify with Vender.
Accessories:	A) Verify with Vender.
Installation Instructions:	A) Set onto Service Counter, item #K-25, as per plan. B) Verify all requirements with Vender.

ITEM #K-57	ICE TEA DISPENSER: PROVIDED BY VENDOR
Quantity:	(1) each
Manufacturer:	As per Vender
Model Number:	As per Vender
Dimensions:	11”W x 24”D x 30”H. Verify with Vender
Utility Requirements:	A) ¼” cold water. A) 115/60/1, 15 amps.
Accessories:	A) Vender to provide and interconnect water supply with Everpure High Flow Triple water filter, #9328-05. B) Vender to provide and interconnect water supply with Excelsior UV water disinfection system, #70UVW.
Installation Instructions:	A) Set in place on service counter, as per plan.

ITEM #E-1	PRE-CHECK REGISTER: POS SYSTEM: PROVIDED BY OWNER
Quantity:	(1) each
Manufacturer:	Provided by Owner
Model Number:	-
Dimensions:	-
Utility Requirements:	A) Verify with supplier
Accessories:	A) Verify with supplier
Installation Instructions:	A) Verify requirements with supplier.

ITEM #E-2	PRINTER: POS SYSTEM: PROVIDED BY OWNER
Quantity:	(2) each
Manufacturer:	Provided by Owner
Model Number:	-
Dimensions:	-
Utility Requirements:	A) Verify with supplier
Accessories:	A) Verify with supplier
Installation Instructions:	A) Verify requirements with supplier.

ADD/ALTERNATE #6:
The following itemized specifications are to be included in the separate add-alternate bid.

ITEM #K-11	STAINLESS STEEL WORK COUNTER	ADD/ALT #6
Quantity:	(1) each	
Manufacturer:	Custom Fabricator	
Model #:	Custom	
Dimensions:	2’-3”W x 3”D x 36”H As per plan	
Utility Requirements:	None	
Accessories:	A) As per plans and details. B) 6” back and side splash. C) Finish exposed end. D) Open base for bread rack.	
Installation Instructions:	A) Set and level as per plan. B) Clip and seal back splash to wall.	

ITEM #K-12 STAINLESS STEEL BREAD RACK GUIDES ADD/ALT #6

Quantity:	(1) set
Manufacturer:	Custom Fabricator
Model #:	Custom
Dimensions:	24”W x 24”D (Verify with bread rack size)
Utility Requirements:	None
Accessories:	A) As per plans and details. B) Stainless steel universal angles mounted in work counter base at each side to hold six vender provided bread racks.
Installation Instructions:	A) Mount in Work Counter, item #K-11, as per plan.

ITEM #K-13 STAINLESS STEEL WALL SHELF ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Custom Metal Fabricator
Model Number:	Custom, as per plans and details.
Dimensions:	27”W x 1’-2”D.
Utility Requirements:	None
Accessories:	A) Provide with (3) mounting brackets.
Installation Instructions:	A) Mount to wall at +60” A.F.F. as per plan. Verify clearance above beverage equipment below. B) General Contractor to provide blocking in wall as required.

ITEM #K-14 STAINLESS STEEL EXHAUST HOOD ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Aqua Matic
Model Number:	#AM-CND-138
Dimensions:	11’-6”W x 4’-6”D x 2’-0”H
Utility Requirements:	A) 120/60/1, 900 watt. B) Total exhaust 1,725 CFM at 0.37” SP. at (1) duct connection. C) Total make-up air 1,380 CFM to be provided by mechanical system to area.
Accessories:	A) Vapor proof incandescent light fixtures. B) Stainless steel enclosure panels from hood to ceiling. C) Provide duct heat sensor assembly at each exhaust duct connections. D) Wall and ceiling mount wall box canopy type unit. E) Stainless steel trim to ceiling. F) Provide hanger rods and seismic restraints. G) Integral 3” dead air space as required. H) Grease cup.
Installation Instructions:	A) Mount from structure above as per plan. (925) lb. B) Mechanical Contractor to connect exhaust ducts to duct collars.

ITEM #K-15	FIRE PROTECTION SYSTEM	ADD/ALT #6

Quantity:	(1) lot
Manufacturer:	Ansul
Model Number:	#R-102
Dimensions:	-
Utility Requirements:	-
Accessories:	A) Provide gas shut off valve and five electrical shut off contacts as required for protected equipment, for installation by mechanical and electrical contractors.
Installation Instructions:	A) Provide a complete self-contained and certified system. B) To protect Exhaust Hood, item #K-14. Tanks to be located on wall close to hood as per plan. Verify placement. C) Al conduits and piping to be concealed in walls and ceiling. Exposed piping in hood to be chrome. D) Verify placement of emergency pull station with architect.

ITEM #K-16	SIX BURNER RANGE WITH CONVECTION OVEN	ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Southbend
Model Number:	#4361A
Dimensions:	32”W x 34”D x 36”H
Utility Requirements:	A) 1 1/4” natural gas, 230,000 Btu/hr
Accessories:	A) Casters, 2 with locks. B) Rear gas connection. C) Stainless steel sides. D) High flue riser with heavy duty shelf. E) Convection oven base. F) (6) Burners. G) 48” Quick disconnect flexible hose gas connection with wall tether. H) Provide leak limiter pressure regulator as required. I) Battery spark ignition.
Installation Instructions:	A) Set in place as per plans. B) Rough-in connection to be quick disconnect. C) Adjust for local altitude and environmental conditions as required.

ITEM #K-17	STAINLESS STEEL GRILL STAND COUNTER	ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Custom Metal Fabricated
Model Number:	Custom
Dimensions:	6'-4"W x 44"D x 36"H
Utility Requirements:	None
Accessories:	A) As per plans and details. B) Stainless steel finish. Finished ends. C) Incorporates full width x 8"D removable cutting board installed so as not to interfere with operation of grill stand equipment. D) Provide utility chase at back as per details. E) Stainless steel back and side splash as per details.
Installation Instructions:	A) Set and level as per plan. B) Clip and seal back splash to wall.

ITEM #K-18	REFRIGERATED GRILL STAND	ADD/ALT #6

Quantity:	(1) each
Manufacturer:	True
Model Number:	#TRCB-72
Dimensions:	72"W x 32"D x 26"H.
Utility Requirements:	A) 115/60/1, 9.9 amps.
Accessories:	A) Stainless steel finish. B) Self contained air-cooled refrigeration. C) (4) drawer base. D) Finished stainless steel ends. E) Set of heavy duty casters with locks.
Installation Instructions:	A) Set and level as per plan. B) Verify fit of grill stand equipment. C) Build into grill stand cabinet , item #K17, as per plans.

ITEM #K-19	FLAT TOP GRILL	ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Southbend
Model Number:	#HDG-36
Dimensions:	36”W x 33”D x 16”H
Utility Requirements:	A) 3/4” Natural gas, 90,000 BTU/hr. B) 115/60/1, 1 amps.
Accessories:	A) Stainless steel sides. B) 48” Quick disconnect flexible hose gas connection with wall tether. C) Provide leak limiter pressure regulator as required. D) Battery spark ignition.
Installation Instructions:	A) Set in place as per plans. B) Rough-in connection to be quick disconnect fitting. C) Adjust for local altitude and environmental conditions as required.

ITEM #K-21	SALAMANDER BROILER	ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Southbend
Model Number:	#P36-RAD
Dimensions:	36”W x 16”D x 22”H
Utility Requirements:	A) 1/2” natural gas, 40,000 Btu/hr
Accessories:	A) Gas shut off valve at connection. B) Provide leak limiter pressure regulator as required. C) Wall mounting brackets.
Installation Instructions:	A) Mount to wall as per plans. B) Adjust for local altitude and environmental conditions as required.

ITEM #K-22	UNDERFIRE BROILER	ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Southbend
Model Number:	#HDC-36
Dimensions:	36”W x 32”D x 16”H
Utility Requirements:	A) 1/2” natural gas, 120,000 Btu/hr
Accessories:	A) 48” Quick disconnect flexible hose gas connection with wall tether. B) Provide leak limiter gas pressure regulator as required. C) Battery spark ignition.
Installation Instructions:	A) Set and level as per plans. B) Rough-in connection to be quick disconnect fittig.. C) Adjust for local altitude and environmental conditions as required.

ITEM #K-23	STAINLESS STEEL WORK COUNTER	ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Custom Fabricator
Model #:	Custom
Dimensions:	2'-3"W x 3"D x 36"H As per plan
Utility Requirements:	None
Accessories:	A) As per plans and details. B) 6" back splash. C) Stainless steel bottom and intermediate shelf D) Finish sides end.
Installation Instructions:	A) Set and level as per plan. B) Clip and seal back splash to wall.

ITEM #K-24	MICROWAVE OVEN	ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Amana
Model Number:	#HDC18
Dimensions:	17"W x 19"D x 14"H
Utilities:	A) 208/60/1, 1,800 watt
Accessories:	A) (10) Programmable control pads. B) Eleven power levels. C) Four stage cooking. D) Interior oven light. E) See through door.
Installation Notes:	A) Set in place as per plan.

ITEM #K-24A	STAINLESS STEEL MICROWAVE SHELF	ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Custom Metal Fabricator
Model Number:	Custom, as per plans and details.
Dimensions:	27'W x 1'-4"D. (Verify microwave fit)
Utility Requirements:	None
Accessories:	A) Provide with (2) mounting brackets.
Installation Instructions:	A) Mount to wall at +60" A.F.F. as per plan. B) General Contractor to provide blocking in wall as required.

ITEM #K-25	ROTARY TOASTER	ADD/ALT #6

Quantity:	(1) each
Manufacturer:	Star
Model #:	#QCS1-500B
Dimensions:	15”W x 21”D x 14”H
Utilities Requirements	A) 120/60/1, 12.2 amp
Accessories:	A) Standard Features.
Installation Instructions:	A) Set in place as per plans.

END FOOD SECTION 11 4000