
ADDENDUM NO. 2

RIDGWAY FIRE STATION LOT 26-B1 RIDGWAY, CO 81432

June 10, 2014

This Addendum is issued to inform the Bidders of Revisions and Clarifications to the Bid Documents. This Addendum forms part of the Contract Documents and modifies the original Project Manual and Bid Drawing Set dated May 9, 2014 and issued as "Ridgway Fire Station, Issue A Bid Documents". This Addendum consists of (28) 8-1/2 x 11 typed pages and (7) 24 x 36 drawings.

The Bid Date is unchanged by this addendum and remains **June 19, 2014 at 4:00 pm.**

You must acknowledge this addendum on your Bid Proposal.

DRAWING SHEETS

A4.1	MAIN LEVEL CEILING PLAN	Updated
M0.2	MECHANICAL NOTES CONTINUED	Revised
M0.8	BOILER PLANT DETAILS	Revised
M1	MECHANICAL PLAN – LEVEL 1	Revised
M3	MECHANICAL ROOF PLAN	Revised
P0.1	PLUMBING NOTES AND SCHEDULES	Revised
P0.2	PLUMBING DETAILS	Revised

SPECIFICATION SECTIONS

000000	Bid Form	Updated
000000	Issue Log	Updated
000000	Drawing Index	Updated
000000	Specification Index	Updated

CLARIFICATIONS

1. The Owner will assume the costs associated with a Building Permit. Please do not include the costs for a building permit with your Bid amount.
2. Please include a Schedule of Values to supplement your Bid Amount. The format of the Schedule of Values should be consistent with the requirements in Specification Section 012900, Payment Procedures.
3. Section 107500 Flag Poles: Mounting for the flag pole can either be in-ground or encased in concrete. Either option is acceptable. The flag pole shall be 20' height minimum.
4. Section 105113, Metal Lockers: The contractor may provide either welded or knock-down lockers. A sloped top is preferred. The dimensions are 18" x 18" x 72". Benches will be provided by the Owner.

CONTRACTOR QUESTIONS

ARCHITECTURAL QUESTIONS

- 2.1 In the question and answer section of the addendum, there are numerous references to plans that have been changed. The only Architectural plan included was A6.1. Are the other changed plans coming in Addendum #2?

Response: A complete set of Construction Drawings will be issued after the project is awarded. The Construction Drawings will include all addendum-related changes and any value-engineering requested by the Owner.

- 2.2 Is the Town or County going to waive the costs of the Building Permit and Plan Review? If not, can those costs be determined by the Building Department and issued as an allowance?

Response: The Owner will assume the responsibility for the costs of the Building Permit. Please do not include this cost in your bid.

- 2.3 Specification Section 011000-2 reads: "Provide and install" for residential equipment. A7.1 reads: residential appliances provided by Owner and installed by Contractor. Please clarify.

Response: Section 011000 alludes to work the Owner will self-perform. The Contractor will be required to coordinate with the Owner for preparatory work associated with residential appliances.

- 2.4 Spec Section 018113-1 requests FSC certifications, which seems to be in conflict with Addendum #1 item 2.22.

Response: The reference was made in the Definitions portion of the specification and was not intended to imply a requirement. Per the LEED Certification Checklist, Page 3, Materials and Resources, Credit 7, we are not pursuing a credit for FSC certified wood.

- 2.5 Do any of the Contractors on site personnel need to be LEED certified and/or have special training?

Response: A LEED accredited professional on the Contractor's staff is not required. The A/E Team will provide a LEED accredited professional throughout construction. Please note any LEED experience on your cover sheet.

- 2.6 Should we assume that Confluence Architecture (LEED Consultant) is the only consultant for the Design Team and that the Contractor will need to use our own LEED Consultant and Management Team for the construction review and submission of submittal documentation to the USGBC? Could the contractor use Confluence Architecture as a LEED Construction Consultant.

Response: The A/E Team led by Confluence Architecture will assume the responsibility for review of LEED submittals and submitting documents to the USGBC. The Contractor may enlist a third party LEED consultant if they choose, but that is not a requirement for this project.

- 2.7 There is a projector depicted in the Multi Purpose Room. Is it by Owner? Does it require any type of support system?

Response: The AV components and infrastructure will be provided by the Owner. Electrical outlets for AV will be provided by the Contractor per plans.

- 2.8 What is the expected color of concrete dye to be used?

Response: The expected concrete coloring is a light grey.

- 2.9 What is the expected level of finish for the gypsum board? Level 3, 4 or 5?

Response: Please reference Addendum #1, 092900 Gypsum Board, Page 4.

- 2.10 Are ADA seats required in the ADA showers?

Response: No.

- 2.11 Do napkin disposal units go in the Women's Toilets?

Response: No.

- 2.12 On Sheet A4.1, it is unclear between Grids 1 to 2 and Grids B to G as to where the wood T&G soffit starts and ends.

Response: Ceiling finishes have been clarified on the attached A4.1 Main Level Ceiling Plan.

- 2.13 There is a "striping" pattern for the soffit at the steel framing part of the building and at the wood framing part. Please confirm both get the same metal soffit as depicted on A5.3.

Response: Ceiling finishes have been clarified on the attached A4.1 Main Level Ceiling Plan.

- 2.14 On the Reflected Ceiling Plan, hatching for the Apparatus Bay is very similar to hatching that is used for Entry #2 and Main Lobby which calls out for T&G. Could you verify that the Apparatus Bay is a complete Open Structure with no T&G used in any section of the ceiling space?

Response: Ceiling finishes have been clarified on the attached A4.1 Main Level Ceiling Plan.

- 2.15 Will Type 5/8" Gyp Board be placed above all rooms with acoustical ceiling panels or only above the mezzanine and kitchen?

Response: 5/8" gypsum board will only need to be placed above the acoustic ceiling in areas to receive a 2-hour rated assembly. Ceiling areas to receive a 2-hr rated gyp board ceiling above an acoustic ceiling are indicated on Sheet A4.1 as a hatch pattern. Those rooms include Bunker Gear 128, Mop 129, Kitchen 131, and the north portion of Dayroom 130.

- 2.16 What doors get the vinyl corner guard?

Response: The location was not indicated on the plans. Vinyl corner guards will be required on the jamb and head of Door 101 and 104.

- 2.17 Are the stainless steel corner guards 48" high? Do they go on the wood columns?

Response: A corner guard height was not specified on the drawings. Please assume a 48" height. (Approximately 12 locations are evident; no corner guards are required in the Locker Rooms.) No, the wood columns will not require corner guards.

- 2.18 Is the Kitchen backsplash from countertop to bottom of upper cabinets?

Response: No reference was made to the backsplash heights in the specifications or drawings. Please assume a 4" tall backsplash at the Kitchen Counter. The remainder of the surface will be gloss paint.

- 2.19 Full wall around the coiling overhead door?

Response: Yes, please provide a full wall around the coiling door. The manufacturer's standard cover may be left exposed.

- 2.20 Is the universal mounting bracket for the TV by Owner? If not, a spec is needed.

Response: The Contractor shall provide and install the brackets in order to coordinate necessary blocking and outlet locations. A specification will likely be discontinued by the time of installation. If uncertain about a specific type, please provide a \$250 allowance per mounting bracket.

LANDSCAPING QUESTIONS

- 3.1 Sheet A0.3 Note: #10 Has a selection been made for the crushed gravel rock for the walk? (Pricing can vary quite a bit.)

Response: No specific product has been referenced. The intent of the crushed gravel is to form a compactable, maintainable walking surface. Additional site improvements (ie future sidewalks) may occur in these areas. A decorative rock is not necessary.

- 3.2 #11 Is "screened" 3" to 8" river rock acceptable? (washed is not available in that large size)

Response: Per Addendum #1, C3 Site Drainage and Grading Plan, please provide 2" diameter river rock to a depth of 4" over weed barrier fabric. +/- 1" tolerance is okay. Larger diameter rocks that prohibit foot traffic should be avoided.

- 3.3 On Sheet A0.3, is the "GRAVEL" label on the drawing adjacent to the S.E. corner of the bldg. a mis - label?

Response: Yes. The "GRAVEL" label wandered off – please disregard. It will be removed from the drawing.

- 3.4 Is the future generator location area to be seeded and irrigated?

Response: The generator pad will be poured concrete.

- 3.5 On Sheet A0.3, the drawing shows the same symbol for "Rock Drainage Areas" and "Gravel Areas". Are these to be the same materials?

Response: Yes. For further clarification on areas to receive site gravel, please reference Addendum #1, Sheet C3 Grading and Drainage Plan. This sheet will govern. Landscaping Plan A0.3 will be updated to reflect these changes.

- 3.6 Are the shrub bed and rock drainage areas in the gravel parking to be edged?

Response: No. An edge is not required at this time.

- 3.7 Which areas are to receive the wildflower seed mixture?

Response: Wildflower seed mix will not be required. Please disregard references to wildflower seed mix on Sheet A0.4.

- 3.8 Where do the 25 landscape boulders called out in the planting schedule go? Type?

Response: The boulders were intended for the site retaining wall on the south end of the property. Please reference Addendum #1 "Stone Retaining Wall Detail" on Sheet C4, Details. The quantity shall be determined by the Contractor.

- 3.9 Is the rock wall to be in the landscaping scope of work? Is there to be any additional landscaping materials ie: plantings etc? Type of rock?

Response: The rock wall shall be included in the scope of work. No additional landscaping or plantings are required. The type of rock may be selected by the Contractor. The intent of Detail 4 on Sheet A0.4 is to provide an esthetically pleasing rock wall.

- 3.10 What is the size and static pressure for the irrigation source? Location?

Response: The domestic supply pressure will be set by a pressure booster pump. The maximum supply will be 80 psi. Revised Plumbing Sheet P0.2 shows a 1" ball valve connection in the Mechanical Room 120 for the irrigation system. It will be the Contractor's responsibility to size and install a backflow preventer and pipe to the exterior of the building.

- 3.11 Is the point of connection and backflow preventer to be supplied by others?

Response: The location of the connection to the domestic water line and the backflow preventer will be the responsibility of the Contractor.

- 3.12 Where will the irrigation system controller be located?

Response: The location of the controller has not been specified. For the purposes of the bid, please assume that the controller will be located on the southwest corner of the building.

- 3.13 Are the native grass areas to be irrigated? What about the "Existing Irrigation Ditch Vegetation Zone"?

Response: No. The intent of the design is not to permanently irrigate native grasses on the property. The zone around the irrigation ditch stays fairly wet while the irrigation ditch is running.

END OF ADDENDUM

Bid Form – Ridgway Fire Station

COMPANY	
NAME	
ADDRESS	
PHONE	
EMAIL	

ACKNOWLEDGE RECEIPT OF ADDENDA NUMBERS:	1, 2
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BASE BID AMOUNT	\$
BASE BID AMOUNT (IN WORDS)	

Base Bid Amount shall include: All costs to complete work included in the Drawings and Specifications, General Contractor Fees, Contractor Contingency, Bonding, Insurance, ~~Permitting~~, and Allowances (Specification Section 012100).

Base Bid Amount shall not include: Furniture, Residential Appliances, **AV Components**, Owner Contingency, Special Inspections, and Commissioning Services.

TIME OF COMPLETION (In Calendar Days)	Days
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ALTERNATES (Refer to Specification Section 012300)	
1.)	\$

Issue Log

** Items in Italics have not been issued.*

ISSUE NAME	DESCRIPTION	ISSUE SET	ISSUE DATE
Bidding Set	Drawings and Specifications	A	5/9/14

REVISION DOCUMENTS	DESCRIPTION	ISSUE SET	ISSUE DATE
Addendum #1		Add 1	6/2/14
Addendum #2		Add 2	6/10/14

END OF ISSUE LOG

Drawing Index

** Items in Italics have not been issued.*

***Items in Bold have been revised.**

NUMBER	DRAWING NAME	ISSUE SET	ISSUE DATE
GENERAL			
A0.1	COVER SHEET	A	5/9/14
A0.2	LIFE SAFETY PLAN	A	5/9/14
CIVIL			
C.1	EXISTING CONDITIONS	Add 1	6/2/14
C.2	SITE LAYOUT & UTILITIES PLAN	Add 1	6/2/14
C.3	GRADING & DRAINAGE PLAN	Add 1	6/2/14
C.4	DETAILS	Add 1	6/2/14
ARCHITECTURAL			
A0.3	LANDSCAPING PLAN	A	5/9/14
A0.4	SITE DETAILS	A	5/9/14
A1.1	FLOOR PLAN	A	5/9/14
A1.2	MEZZANINE PLAN	A	5/9/14
A1.3	ROOF PLAN	A	5/9/14
A2.1	ELEVATIONS	A	5/9/14
A2.2	ELEVATIONS	A	5/9/14
A3.1	BUILDING SECTIONS	A	5/9/14
A3.2	BUILDING SECTIONS	A	5/9/14
A3.3	BUILDING SECTIONS	A	5/9/14
A4.1	MAIN LEVEL CEILING PLAN	Add 2	6/10/14
A4.2	MEZZANINE CEILING PLAN	A	5/9/14
A5.1	ENLARGED PLAN	A	5/9/14
A5.2	ASSEMBLY TYPES	A	5/9/14
A5.3	WALL SECTIONS	A	5/9/14
A5.4	DETAILS	A	5/9/14
A5.5	DETAILS	A	5/9/14
A5.6	DETAILS	A	5/9/14
A6.1	DOOR SCHEDULE	Add 1	6/2/14
A6.2	WINDOW SCHEDULE	A	5/9/14
A6.3	DOOR & WINDOW DETAILS	A	5/9/14

A7.1	FINISH SCHEDULE & DETAILS	A	5/9/14
A7.2	INTERIOR ELEVATIONS	A	5/9/14
A7.3	INTERIOR ELEVATIONS	A	5/9/14
A8.1	INTERIOR VIEWS	A	5/9/14
A8.2	INTERIOR VIEWS	A	5/9/14
STRUCTURAL			
S0.0	GENERAL NOTES & LEGENDS	A	5/9/14
S0.1	STATEMENT OF SPECIAL INSPECTIONS	A	5/9/14
S1.0	FOUNDATION PLAN	A	5/9/14
S2.0	MEZZANINE FLOOR – FLAT ROOF FRAMING PLAN	A	5/9/14
S3.0	ROOF FRAMING PLAN	A	5/9/14
S4.0	TRUSS ELEVATIONS	A	5/9/14
S4.1	ELEVATIONS	A	5/9/14
SD1.0	CONCRETE DETAILS	A	5/9/14
SD1.1	CONCRETE DETAILS	A	5/9/14
SD2.0	MASONRY DETAILS	A	5/9/14
SD3.0	STEEL DETAILS	A	5/9/14
SD3.1	STEEL DETAILS	A	5/9/14
SD3.2	STEEL DETAILS	A	5/9/14
SD4.0	WOOD DETAILS	A	5/9/14
SD4.1	WOOD DETAILS	A	5/9/14
SD4.2	WOOD DETAILS	A	5/9/14
MECHANICAL			
M0.1	LEGENDS AND NOTES	A	5/9/14
M0.2	NOTES CONTINUED	Add 2	6/10/14
M0.3	SCHEDULES	A	5/9/14
M0.4	SCHEDULES CONTINUED	A	5/9/14
M0.5	CONTROL SEQUENCE	A	5/9/14
M0.6	AIRSIDE DETAILS	A	5/9/14
M0.7	AIRSIDE DETAILS	A	5/9/14
M0.8	BOILER PLANT DETAILS	Add 2	6/10/14
M1	MECHANICAL PLAN – LEVEL 1	Add 2	6/10/14
M2	MECHANICAL PLAN – LEVEL 2	A	5/9/14
M3	ROOF PLAN	Add 2	6/10/14
M4	MECHANICAL – 3D	A	5/9/14

M5	MECH PIPING PLAN – LEVEL 1	A	5/9/14
M6	MECH PIPING PLAN – LEVEL 2	A	5/9/14
PLUMBING			
P0.1	PLUMBING NOTES AND SCHEDULES	Add 2	6/10/14
P0.2	PLUMBING DETAILS	Add 2	6/10/14
P0.3	PLUMBING DETAILS	A	5/9/14
P0.4	PLUMBING DETAILS	A	5/9/14
P1	PLUMBING PLAN – LEVEL 1	A	5/9/14
P2	PLUMBING – 3D	A	5/9/14
ELECTRICAL AND LIGHTING			
E0.01	ELECTRICAL TITLE PAGE	A	5/9/14
E1.01	POWER PLAN – MAIN LEVEL	A	5/9/14
E1.02	POWER PLAN – UPPER LEVEL	A	5/9/14
E1.03	LIGHTING PLAN - MAIN LEVEL	A	5/9/14
E1.04	LIGHTING PLAN - UPPER LEVEL	A	5/9/14
E1.05	LOW VOLTAGE PLAN - MAIN LEVEL	A	5/9/14
E5.01	POWER DETAILS AND SCHEDULES	A	5/9/14
E5.02	LIGHTING DETAILS AND SCHEDULES	A	5/9/14
E5.03	LOW VOLTAGE DETAILS AND SCHEDULES	A	5/9/14

END OF DRAWING INDEX

Specification Index

** Items in Italics have not been issued.*

***Items in Bold have been revised.**

DIV NO.	DIVISION TITLE	ISSUE SET	ISSUE DATE
DIVISION 00 – PROCUREMENT AND CONTRACT REQUIREMENTS			
00	Project Title Page	A	5/9/14
01	Project Directory	A	5/9/14
02	Advertisement for Bids	A	5/9/14
03	Bid Instructions	A	5/9/14
04	Bid Form	Add 2	6/10/14
05	Issue Log	Add 2	6/10/14
06	Drawing Index	Add 2	6/10/14
07	Specification Index	Add 2	6/10/14
08	Geotechnical Data Summary	A	5/9/14
09	LEED 2009 NC Certification Checklist (Preliminary)	A	5/9/14
DIVISION 01 – GENERAL REQUIREMENTS			
011000	Summary	A	5/9/14
012100	Allowances	A	5/9/14
012200	Unit Prices	A	5/9/14
012300	Alternates	A	5/9/14
012500	Substitution Procedures	A	5/9/14
012600	Contract Modification Procedures	A	5/9/14
012900	Payment Procedures	A	5/9/14
013100	Project Management and Coordination	Add 1	6/2/14
013200	Construction Progress Documentation	A	5/9/14
013300	Submittal Procedures	A	5/9/14
014000	Quality Requirements	A	5/9/14
014200	References	A	5/9/14
015000	Temporary Facilities and Controls	A	5/9/14
016000	Product Requirements	A	5/9/14
017300	Execution	A	5/9/14
017419	Construction Waste Management	Add 1	6/2/14
017700	Closeout Procedures	A	5/9/14

017823	Operation and Maintenance Data	A	5/9/14
017900	Demonstration and Training	A	5/9/14
018113	Sustainable Design Requirements	Add 1	6/2/14
019113	General Commissioning Requirements	Add 1	6/2/14
DIVISION 03 - CONCRETE			
033000	Cast-In-Place Concrete	Add 1	6/2/14
033543	Polished Concrete Finishing	A	5/9/14
DIVISION 04 – MASONRY			
042200	Concrete Unit Masonry	A	5/9/14
DIVISION 05 – METALS			
051200	Structural Steel Framing	A	5/9/14
052100	Steel Joist Framing	A	5/9/14
053100	Steel Decking	A	5/9/14
055000	Metal Fabrications	A	5/9/14
055113	Metal Pan Stairs	A	5/9/14
055213	Pipe and Tube Railings	A	5/9/14
DIVISION 06 – WOOD, PLASTICS, & COMPOSITES			
061000	Rough Carpentry	Add 1	6/2/14
061600	Sheathing	A	5/9/14
061753	Shop-Fabricated Wood Trusses	A	5/9/14
061800	Glued-Laminated Construction	A	5/9/14
DIVISION 07 – THERMAL & MOISTURE PROTECTION			
071113	Bituminous Dampproofing	A	5/9/14
072100	Thermal Insulation	A	5/9/14
072726	Fluid Applied Air Barriers	Add 1	6/2/14
074113	Standing Seam Metal Roof Panels	A	5/9/14
074619	Metal Wall Panels	Add 1	6/2/14
075423	TPO Roofing	A	5/9/14
076200	Sheet Metal Flashing and Trim	A	5/9/14
077200	Roof Accessories	A	5/9/14

079200	Joint Sealants	A	5/9/14
078413	Penetration Firestopping	Add 1	6/2/14
DIVISION 08 – OPENINGS			
081213	Hollow Metal Door Frames	Add 1	6/2/14
081416	Flush Wood Doors	Add 1	6/2/14
081436	Stile and Rail Wood Doors	Add 1	6/2/14
083113	Access Doors and Frames	A	5/9/14
083213	Sliding Aluminum Framed Glass Doors	Add 1	6/2/14
083313	Coiling Counter Doors	Add 1	6/2/14
083613	Sectional Doors	Add 1	6/2/14
085113	Aluminum Windows	Add 1	6/2/14
086300	Metal-Framed Skylights	Add 1	6/2/14
087100	Door Hardware	Add 2	6/10/14
088000	Glazing	Add 1	6/2/14
089000	Louvers and Vents	Add 1	6/2/14
DIVISION 09 – FINISHES			
092116	Gypsum Board Shaft Wall Assemblies	Add 1	6/2/14
092900	Gypsum Board	Add 1	6/2/14
093000	Ceramic Tiling	Add 1	6/2/14
095123	Acoustic Tile Ceilings	A	5/9/14
096513	Resilient Base and Accessories	A	5/9/14
096813	Tile Carpeting	A	5/9/14
099000	Paints and Coatings	Add 1	6/2/14
099300	Staining and Transparent Finishing	A	5/9/14
099600	High Performance Coatings		
DIVISION 10 – SPECIALTIES			
101100	Visual Display Units	A	5/9/14
101200	Display Cases	A	5/9/14
101400	Signage	A	5/9/14
102113	Toilet Compartments	A	5/9/14
102800	Toilet Accessories	A	5/9/14
104400	Interior Signs	A	5/9/14

104413	Fire Protection Cabinets	A	5/9/14
104416	Fire Extinguishers	A	5/9/14
105113	Metal Lockers	Add 1	6/2/14
107500	Ground-Set Flag Poles	A	5/9/14
DIVISION 11 – EQUIPMENT			
115213	Projection Screens	A	5/9/14
DIVISION 12 – FURNISHINGS			
122413	Roller Window Shades	Add 1	6/2/14
123530	Residential Casework	Add 1	6/2/14
124816	Entrance Floor Grills	A	5/9/14
DIVISION 22 - PLUMBING			
220500	Common Work Results	A	5/9/14
220513	Common Motor Requirements	A	5/9/14
220516	Expansion Fittings and Loops	A	5/9/14
220519	Meters and Gauges	A	5/9/14
220523	General Duty Valves	A	5/9/14
220529	Hangers and Supports	A	5/9/14
220548	Vibration and Seismic	A	5/9/14
220553	Identification	A	5/9/14
220700	Plumbing Insulation	A	5/9/14
221113	Facility Water Distribution Piping	A	5/9/14
DIVISION 23 – HEATING, VENTILATING AND AIR CONDITIONING			
230513	Common Motor Requirements	A	5/9/14
230516	Expansion Fittings and Loops	A	5/9/14
230519	Meters and Gauges	A	5/9/14
230523	General Duty Valves	A	5/9/14
230529	Hangers and Supports	A	5/9/14
230548	Vibration and Seismic	A	5/9/14
230553	Identification	A	5/9/14
230593	Testing and Balancing	A	5/9/14
230700	HVAC Insulation	A	5/9/14

230800	HVAC Commissioning	A	5/9/14
230900	Instruments and Controls	A	5/9/14
230993	Sequence of Operations	A	5/9/14
231123	Natural Gas Piping	A	5/9/14
23500	HVAC Water Treatment	A	5/9/14
23313	Metal Ducts	A	5/9/14
233116	Non-Metal Ducts	A	5/9/14
233119	HVAC Casings	A	5/9/14
233300	Air Duct Access	A	5/9/14
233416	Centrifugal HVAC Fans	A	5/9/14
233423	Power Ventilators	A	5/9/14
233600	Air Terminal Units	A	5/9/14
233713	Diffusers, Grilles, and Registers	A	5/9/14
234100	Particulate Air Filtration	A	5/9/14
235100	Breeches, Chimneys and Stacks	A	5/9/14
235113	Draft Control Devices	A	5/9/14
235216	Condensing Boilers	A	5/9/14
235700	Heat Exchangers	A	5/9/14
237433	Heating and Cooling Make-Up Air	A	5/9/14
238219	Fan Coil Units	A	5/9/14
238239	Unit Heaters	A	5/9/14
238316	Radiant Heating Hydronic Piping	A	5/9/14
DIVISION 26 - ELECTRICAL			
260500	Common Work Results	A	5/9/14
260519	Low Voltage	A	5/9/14
260523	Control Voltage	A	5/9/14
260526	Grounding	A	5/9/14
260533	Raceways and Boxes	A	5/9/14
260553	Identification	A	5/9/14
260923	Lighting Control	A	5/9/14
262416	Panel Boards	A	5/9/14
262726	Wiring Devices	A	5/9/14
262813	Fuses	A	5/9/14
262816	Enclosed Switches	A	5/9/14

264313	TVs	A	5/9/14
265100	Interior Lighting	A	5/9/14
283111	Digital, Addressable Fire Alarm System	A	5/9/14
DIVISION 32 – EXTERIOR IMPROVEMENTS			
328400	Planting Irrigation	Add 1	6/2/14
329200	Turf and Grasses	A	5/9/14
329300	Plants	A	5/9/14

END OF SPECIFICATION INDEX

HARDWARE SCHEDULE

NO.	LOCATION 1	TO	LOCATION 2	FUNCTION	RATING	SET
007	APPARATUS BAY 101	TO	EXTERIOR	EXTERIOR EGRESS		2.0
008	DAYROOM 130	TO	EXTERIOR	SLIDING		3.0
009	DAYROOM 130	TO	EXTERIOR	SLIDING		3.0
010	DAYROOM 130	TO	EXTERIOR	EXTERIOR EGRESS		2.0
011	MULTI-PURPOSE 117	TO	EXTERIOR	EXTERIOR EGRESS		2.0
012	ENTRY #2 113	TO	EXTERIOR	MAIN ENTRY		1.1
013	MAIN LOBBY 114	TO	ENTRY #2 113	MAIN ENTRY		1.3
014	ENTRY #1 106	TO	EXTERIOR	MAIN ENTRY		1.1
015	LOBBY 107	TO	ENTRY #1 106	MAIN ENTRY		1.2
016	APPARATUS BAY 101	TO	EXTERIOR	EXTERIOR EGRESS		2.0
101	APPARATUS BAY 101	TO	MAIN LOBBY 114	CONTROL DOOR	2 HR	4.1
102	BUNKER GEAR 128	TO	APPARATUS BAY 101	PAIR PASSAGE		6.3
103	APPARATUS BAY 101	TO	EMS STORAGE 102	STORAGE	2 HR	4.2
104	APPARATUS BAY 101	TO	DAYROOM 130	CONTROL DOOR	2 HR	4.1
105	SHOP 103	TO	SCBA 104	PASSAGE		5.2
106	APPARATUS BAY 101	TO	DECON/UTILITY 105	PASSAGE		5.2
107	LOBBY 107	TO	CHIEF'S OFFICE 108	OFFICE		7.0
108	LOBBY 107	TO	CONF RM 109	OFFICE		7.0
109	LOBBY 107	TO	ASST CHIEF'S OFF 110	OFFICE		7.0
110	LOBBY 107	TO	MAIN LOBBY 114	CONTROL DOOR		4.1
111	LOBBY 107	TO	STORAGE 112	STORAGE		4.2
112	MAIN LOBBY 114	TO	TOILET 115	PRIVACY		8.0
113	MAIN LOBBY 114	TO	TOILET 116	PRIVACY		8.0
114	MULTI-PURPOSE 117	TO	MAIN LOBBY 114	CONTROL DOOR		4.1
115	TABLES 118	TO	MULTI-PURPOSE 117	PAIR PASSAGE		6.1
116	CHAIRS 119	TO	MULTI-PURPOSE 117	PASSAGE		5.1
117	MAIN LOBBY 114	TO	MECH 120	STORAGE		6.2
118	ELEC/COMM 121	TO	MAIN LOBBY 114	STORAGE		4.2
119	CORRIDOR 122	TO	MAIN LOBBY 114	CONTROL DOOR		4.1
120	CORRIDOR 122	TO	FITNESS 123	CONTROL DOOR		4.1
121	CORRIDOR 122	TO	LAUNDRY 124	PASSAGE		5.2
122	CORRIDOR 122	TO	ANTE 125	PUSH / PULL		9.1
123	ANTE 125	TO	WOMEN'S LOCKER 126	PUSH / PULL		9.2
124	CORRIDOR 122	TO	BUNKER GEAR 128	CONTROL DOOR	2 HR	4.1
125	CORRIDOR 122	TO	ANTE 127A	PUSH / PULL		9.1
126	ANTE 127A	TO	MEN'S LOCKER 127	PUSH / PULL		9.1
127	MOP 129	TO	DAYROOM 130	PASSAGE	2 HR	5.2
128	DAYROOM 130	TO	HALL 132	PASSAGE	2 HR	5.2
129	HALL 132	TO	DORM #1 133	DORM DOOR		10.0
130	HALL 132	TO	DORM #2 134	DORM DOOR		10.0
131	HALL 132	TO	DORM #2 135	DORM DOOR		10.0
132	HALL 132	TO	DORM #4 136	DORM DOOR		10.0
133	HALL 132	TO	STORAGE 137	PASSAGE		5.1

1.1 HARDWARE SET**UNLOCKED EXTERIOR ENTRY DOORS**

FOR DOORS: 012, 014

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
2	EA	CONTINUOUS HINGE	651-SS-96	630	STH
2	EA	MULLION STABILIZER	154	313	VON
1	EA	MULLION	KR4954	313	VON
2	EA	PANIC HARDWARE	350	606	VON
2	EA	CUSTOM PULLS	RM3302MP	606	RM
2	EA	SURFACE CLOSER	4041 EDA ST3596	US4	LCN
2	EA	MOUNTING PLATE	4040-18	US4	LCN
2	EA	OVERHEAD STOP	100S-ADJ	606	GLY
2	EA	KICK PLATES, INTER	8400 8"x2" LDW	606	IVE
1	EA	THRESHOLD	896V MS/LA	AL	NGP
2	EA	DOOR SWEEP	C627A	CL	NGP
1	SET	WEATHERSTRIP	A626A	CL	NGP
1	EA	MULLION GASKET	5100S	BLK	NGP

FUNCTION:

- 1.) BOTH DOORS OPEN FOR PUSH/PULL OPERATION.
- 2.) UNIMPEDED EXIT AT ALL TIMES.

1.2 HARDWARE SET**LOCKING MAIN ENTRY**

FOR DOOR: 015

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
2	EA	CONTINUOUS HINGE	651-SS-96	630	STH
2	EA	MULLION STABILIZER	154	313	VON
1	EA	MULLION	KR4954	313	VON
1	EA	PANIC HARDWARE	CD35A-EO-299 SNB	US4	VON
1	EA	PANIC HARDWARE	CD35A-NL-299 SNB	US4	VON
1	EA	RIM CYLINDER	1E72	606	BES
1	EA	PERMANENT CORE			
2	EA	CUSTOM PULLS	RM3302MP	606	RM
2	EA	SURFACE CLOSER	4041 EDA ST3596	US4	LCN
2	EA	MOUNTING PLATE	4040-18	US4	LCN
2	EA	OVERHEAD STOP	100S-ADJ	US4	GLY
2	EA	KICK PLATES, INTER	8400 8"x2" LDW	606	IVE
1	EA	THRESHOLD	896V MS/LA	AL	NGP
2	EA	DOOR SWEEP	C627A	CL	NGP
1	SET	WEATHERSTRIP	A626A	CL	NGP
1	EA	MULLION GASKET	5100S	BLK	NGP

FUNCTION:*OPEN MODE:*

1.) BOTH DOORS DOGGED OPEN FOR PUSH/PULL OPERATION.

SECURE MODE:

1.) BOTH DOORS CLOSED AND LOCKED.

2.) ENTRY BY KEY OUTSIDE RETRACTS LATCHBOLT ALLOWING ENTRY.

3.) UNIMPEDED EXIT AT ALL TIMES.

1.3 HARDWARE SET**KEY PAD MAIN ENTRY**

FOR DOOR: 013

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
2	EA	CONTINUOUS HINGE	651-SS-96	630	STH
2	EA	MULLION STABILIZER	154	313	VON
1	EA	MULLION	KR4954	313	VON
1	EA	PANIC HARDWARE	CD35A-EO-299 SNB	US4	VON
1	EA	PANIC HARDWARE	CD35A-NL-299 SNB	US4	VON
1	EA	RIM CYLINDER	1E72	606	BES
1	EA	PERMANENT CORE			
2	EA	CUSTOM PULLS	RM3302MP	606	RM
2	EA	SURFACE CLOSER	4041 EDA ST3596	US4	LCN
2	EA	MOUNTING PLATE	4040-18	US4	LCN
1	EA	ELECTRIC STRIKE	BY SECTION 087100		
1	EA	KEY PAD OPERATOR	BY SECTION 087100		
2	EA	OVERHEAD STOP	100S-ADJ	606	GLY
2	EA	KICK PLATES, INTER	8400 8"x2" LDW	606	IVE
1	EA	THRESHOLD	896V MS/LA	AL	NGP
2	EA	DOOR SWEEP	C627A	CL	NGP
1	SET	WEATHERSTRIP	A626A	CL	NGP
1	EA	MULLION GASKET	5100S	BLK	NGP

FUNCTION:*OPEN MODE:*

1.) BOTH DOORS DOGGED OPEN FOR PUSH/PULL OPERATION.

SECURE MODE:

1.) BOTH DOORS CLOSED AND LOCKED.

2.) ENTRY BY KEY OUTSIDE RETRACTS LATCHBOLT ALLOWING ENTRY.

3.) AUTHORIZED KEY PAD CODE SIGNALS ELECTRIC STRIKE TO RETRACT ALLOWING ENTRY.

4.) UNIMPEDED EXIT AT ALL TIMES.

2.0 HARDWARE SET**EXTERIOR EGRESS DOOR**

FOR DOORS: 007, 010, 011, 016

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
1	EA	CONTINUOUS HINGE	651-SS-84	630	STH
1	EA	PANIC HARDWARE	35AL 360L-06-299 SNB	630	VON
1	EA	RIM CYLINDER	1E72	630	BES
1	EA	PERMANENT CORE			
1	EA	SURFACE CLOSER	4041 EDA ST3596	689	LCN
1	EA	MOUNTING PLATE	4040-18	689	LCN
1	EA	OVERHEAD STOP	100S-ADJ	630	GLY
1	EA	THRESHOLD	896V MS/LA	AL	NGP
1	EA	DOOR SWEEP	C627A	CL	NGP
1	SET	WEATHERSTRIP	A626A	CL	NGP

FUNCTION:*OPEN MODE:*

1.) DOOR DOGGED OPEN FOR PUSH/PULL OPERATION.

SECURE MODE:

1.) DOOR CLOSED AND LOCKED.

2.) ENTRY BY KEY OUTSIDE RETRACTS LATCHBOLT ALLOWING ENTRY.

3.) UNIMPEDED EXIT AT ALL TIMES.

3.0 HARDWARE SET**SLIDING DOOR**

FOR DOORS: 008, 009

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
1	EA	SLIDE TRACK	BY MFR		
1	EA	PULL, EXTERIOR	BY MFR		
1	EA	PULL, INTERIOR	BY MFR		
1	EA	THUMBTURN, INTER	BY MFR		
1	EA	HOOK BOLT LOCK	BY MFR		
1	EA	WEATHER SEAL	BY MFR		

FUNCTION:

1.) DOOR LOCKED FROM THE INTERIOR.

2.) NO ACCESS FROM THE EXTERIOR.

4.1 HARDWARE SET**INTERIOR CONTROL DOORS**

FOR DOORS: 101, 104, 110, 114, 119, 120, 124

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
1	EA	CLASSROOM SET	93KR7 15D LM	630	BES
1	EA	PERMANENT CORE			
1	EA	SURFACE CLOSER	4041	689	LCN
1	EA	WALL STOP	WS407CCV	630	IVE
1	EA	KICK PLATE	8400 10"x2" LDW	630	IVE
1	EA	DOOR SWEEP	C627A	CLR	IVE
1	SET	SMOKE SEAL	2525B	BLK	NGP

FUNCTION:

- 1.) KEY OUTSIDE LOCKS OR UNLOCKS LEVER.
- 2.) INSIDE LEVEL ALWAYS OPERATIVE IN THE DIRECTION OF EGRESS.

4.2 HARDWARE SET**STORAGE CONTROL DOORS**

FOR DOORS: 103, 111, 118

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
1	EA	CLASSROOM LOCK	93KR7 15D LM	630	BES
1	EA	PERMANENT CORE			
1	EA	WALL STOP	WS407CCV	630	IVE
1	EA	KICK PLATE	8400 10"x2" LDW	630	IVE
1	SET	SILENCER	SR64	GRY	IVE

FUNCTION:

- 1.) KEY OUTSIDE LOCKS OR UNLOCKS LEVER.
- 2.) INSIDE LEVEL ALWAYS OPERATIVE IN THE DIRECTION OF EGRESS.

5.1 HARDWARE SET**STANDARD PASSAGE SET**

FOR DOORS: 116, 133

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
1	EA	PASSAGE SET	93KR7 15D LM	630	BES
1	EA	WALL STOP	WS407CCV	630	IVE
1	SET	SILENCER	SR64	GRY	IVE

FUNCTION:

1.) BOTH LEVERS ALWAYS OPERATE.

5.2 HARDWARE SET**SEALED PASSAGE SET**

FOR DOORS: 105, 106, 121, 127, 128

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
1	EA	PASSAGE SET	93KR7 15D LM	630	BES
1	EA	SURFACE CLOSER	4041	689	LCN
1	EA	WALL STOP	WS407CCV	630	IVE
1	EA	KICK PLATE	8400 10"x2" LDW	630	IVE
1	SET	SEALS	2525B	BLK	NGP

FUNCTION:

1.) BOTH LEVERS ALWAYS OPERATE.

6.1 HARDWARE SET**STANDARD PAIR PASSAGE SET**

FOR DOOR: 115

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
2	EA	PASSAGE SET	93KR7 15D LM	630	BES
2	EA	MANUAL FLUSH BOLT	FB358	630	IVE
1	EA	DUST PROOF STRIKE	DP1	630	IVE
1	EA	ASTRAGAL	158NA	CL	NGP
2	EA	WALL STOP	WS407CCV	630	IVE
1	EA	SILENCER	SR64	GRY	IVE

FUNCTION:

1.) ACTIVE LEAF ALWAYS OPENS.

2.) INACTIVE LEAF OPENS WITH FLUSH BOLTS

6.2 HARDWARE SET**STANDARD PAIR STORAGE SET**

FOR DOOR: 117

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
2	EA	STOREROOM LOCK	93KR7 15D LM	630	BES
1	EA	PERMANENT CORE			
2	EA	MANUAL FLUSH BOLT	FB358	630	IVE
1	EA	DUST PROOF STRIKE	DP1	630	IVE
1	EA	SURFACE CLOSER	4041	689	LCN
1	EA	ASTRAGAL	158NA	CL	NGP
2	EA	OVERHEAD STOP	100S-ADJ	630	GLY
1	SET	SEALS	2525B	BLK	NGP
1	EA	KICK-DOWN STOP	FS452	26D	IVE

FUNCTION:

- 1.) KEY OUTSIDE OR LEVER INSIDE RETRACTS LATCHBOLT
- 2.) INSIDE LEVER ALWAYS OPERATIVE.
- 3.) INACTIVE LEAF OPENS WITH FLUSH BOLTS

6.3 HARDWARE SET**SEALED PAIR PASSAGE SET**

FOR DOOR: 102

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
1	EA	MULLION	KR4954	630	VON
2	EA	MULLION STORAGE KIT	MT54	630	VON
2	EA	DUMMY PUSH BAR			
2	EA	PULLS	8305-0 6" X 16"	630	IVE
2	EA	SURFACE CLOSER	4041	689	LCN
2	EA	KICK PLATES	8400 10"x2" LDW	630	IVE
2	EA	DOOR SWEEPS	C627A	CLR	IVE
2	EA	WALL STOPS	WS407CCV	630	IVE
1	EA	SEALS	2525B	BLK	NGP

FUNCTION:

- 1.) BOTH DOORS ALWAYS OPEN.

7.0 HARDWARE SET**STANDARD OFFICE SET**

FOR DOORS: 107, 108, 109

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
1	EA	OFFICE LOCK	93KR7 15D LM	630	BES
1	EA	PERMANENT CORE			
1	EA	KICK PLATE	8400 10"x2" LDW	630	IVE
1	EA	WALL STOP	WS407CCV	630	IVE
1	SET	SILENCER	SR64	GRY	IVE

FUNCTION:

- 1.) PUSH BUTTON INSIDE LOCKS OUTSIDE LEVER UNTIL OUTSIDE KEY UNLOCKS LEVER.
- 2.) INSIDE LEVER ALWAYS OPERATES.

8.0 HARDWARE SET**RESTROOM PRIVACY SET**

FOR DOORS: 112, 113

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
1	EA	PRIVACY SET	93KR7 15D LM	630	BES
1	EA	SURFACE CLOSER	4041	630	LCN
1	EA	KICK PLATE	8400 10"x2" LDW	630	IVE
1	EA	WALL STOP	WS407CCV	630	IVE
1	SET	SILENCER	SR64	GRY	IVE

FUNCTION:

- 1.) PUSH BUTTON INSIDE LOCKS OUTSIDE LEVER UNTIL OUTSIDE KEY UNLOCKS LEVER.
- 2.) INSIDE LEVER ALWAYS OPERATES.

9.1 HARDWARE SET**PUSH/PULL LOCKER ROOM SET**

FOR DOORS: 122, 125, 126

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
1	EA	PUSH PLATE	8200 6" X 16"	630	IVE
1	EA	PULL PLATE	8305-0 6" X 16"	630	IVE
1	EA	SURFACE CLOSER	4041	689	LCN
1	EA	KICK PLATE	8400 10"x2" LDW	630	IVE
1	EA	WALL STOP	WS407CCV	630	IVE
1	EA	SILENCER	SR64	GRY	IVE

FUNCTION:

1.) PUSH / PULL OPERATION. NON LOCKING.

9.2 HARDWARE SET**PUSH/PULL LOCKER ROOM MAINTENANCE SET**

FOR DOOR: 123

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
1	EA	CLASSRM DEADBOLT	83K7R	630	BES
1	EA	PERMANENT CORE			
1	EA	PUSH PLATE	8200 6" X 16"	630	IVE
1	EA	PULL PLATE	8305-0 6" X 16"	630	IVE
1	EA	SURFACE CLOSER	4041	689	LCN
1	EA	KICK PLATE	8400 10"x2" LDW	630	IVE
1	EA	WALL STOP	WS407CCV	630	IVE
1	EA	SILENCER	SR64	GRY	IVE

FUNCTION:

1.) PUSH / PULL OPERATION. NON LOCKING.

2.) THUMB TURN DEADBOLT ON INSIDE PROVIDES PRIVACY FUNCTION.

3.) KEY OUTSIDE RETRACTS DEADBOLT BUT WILL NOT PROJECT DEADBOLT.

10.0 HARDWARE SET**DORM ROOM PRIVACY SET**

FOR DOORS: 129, 130, 131, 132

QNTY	EA	DESCRIPTION	MODEL NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 x 4.5	630	IVE
1	EA	DORMATORY LOCK	93KR7 15D LM	630	BES
1	EA	SURFACE CLOSER	4041	689	LCN
1	EA	KICK PLATE	8400 10"x2" LDW	630	IVE
1	EA	DOOR BOTTOM	223NA-36	630	NGP
1	EA	WALL STOP	WS407CCV	630	IVE
1	SET	SEALS	2525B	BLK	NGP

FUNCTION:

- 1.) KEY OUTSIDE OR THUMB TURN INSIDE RETRACTS AND PROJECTS DEADBOLT.
- 2.) LEVER FROM EITHER SIDE RETRACTS LATCHBOLT WHEN DEADBOLT IS OPEN.
- 3.) WHEN DEADBOLT IS PROJECTED, INSIDE LEVER RETRACTS LATHBOLT AND DEADBOLT SIMULTANEOUSLY UNLOCKING OUTSIDE LEVER.

END OF SECTION 087100

ISSUE LOG		
A	5/9/14	BID DOCUMENTS
1	6/2/14	ADDENDUM #1
2	6/10/14	ADDENDUM #2

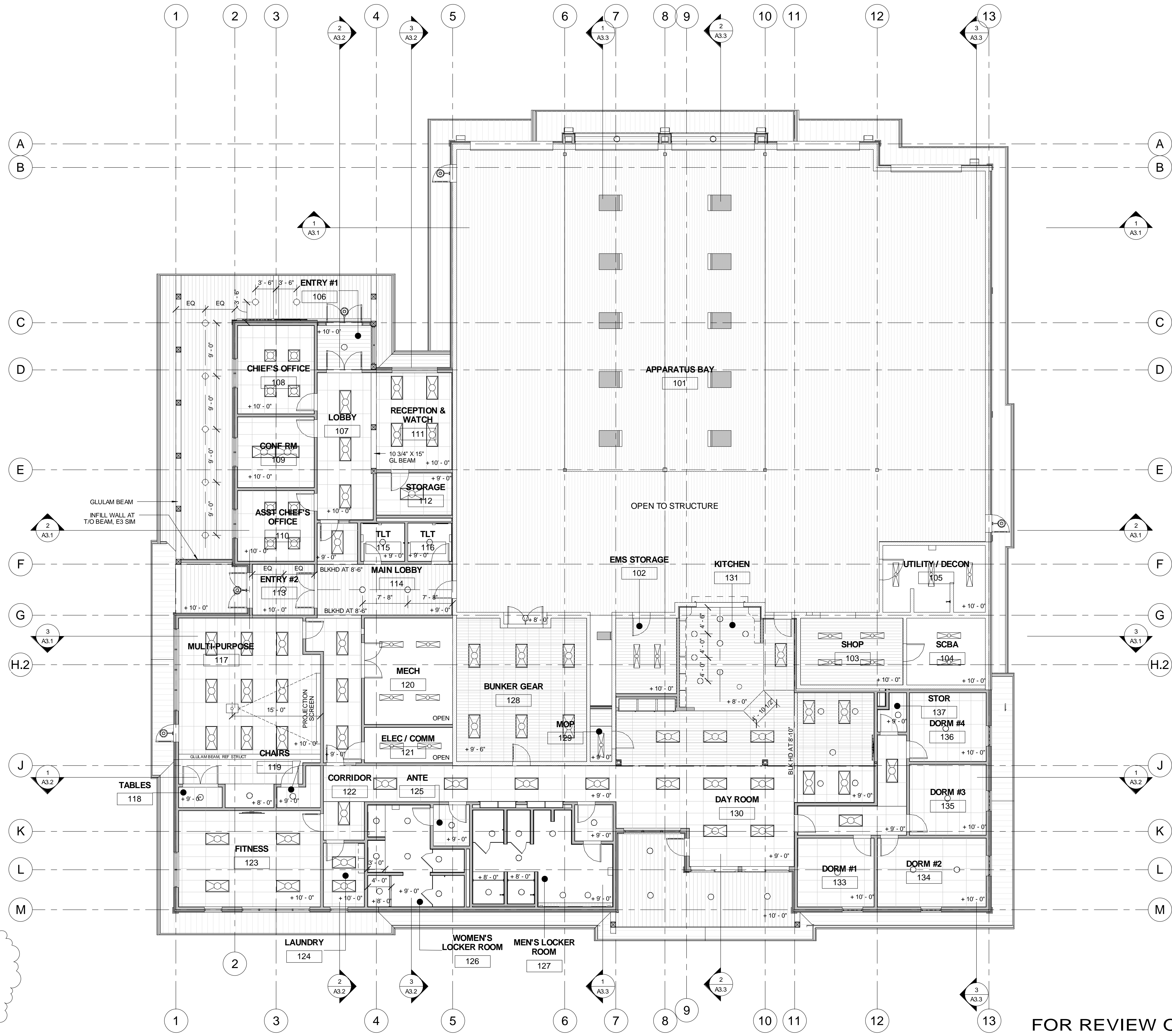
MAIN LEVEL
CEILING PLAN

PROJECT NO.: 130912
PROJECT DATE: 10/31/13
SHEET NUMBER:

A4.1

Ceiling Legend

	GYPSUM BOARD ON CEILING JOISTS AT 16" OC		5/8" TYPE X GYP BD ON 2x6 CEILING RAFTERS OR TIGHT TO UNDERSIDE OF STRUCTURE
	2x4 SUSPENDED ACOUSTIC TILE CEILING		5/8" TYPE X GYP BD ON 7/8" HAT CHANNELS TIGHT TO UNDERSIDE OF STEEL JOISTS
	WOOD CEILING		1x6 TONGUE AND GROOVE WOOD CEILING, STAIN FINISH
	OPEN TO STRUCTURE ABOVE		SUSPEND ALL LIGHT FIXTURES FROM STRUCTURE
	2 HR RATED CEILING / FLOOR ASSEMBLY		5/8" TYPE X GYP BD ON 7/8" HAT CHANNELS TIGHT TO UNDERSIDE OF STEEL JOISTS
	METAL SOFFIT PANELS		METAL SOFFIT PANELS, ATTACH TO UNDERSIDE OF ROOF
	EXPOSED ROOF DECK		PAINT UNDERSIDE OF EXPOSED ROOF DECK IN APPARATUS BAY



Main Level Ceiling Plan

1/8" = 1'-0"

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

6/10/2014 9:24:21 AM

21. THIS CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME ACQUAINTED WITH EXISTING CONDITIONS. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM THE RESPONSIBILITY FOR PERFORMING THE WORK PROPERLY.

23. MAINTAIN ALL REQUIRED SERVICE AND ACCESS CLEARANCES REQUIRED BY CODE OR THE MANUFACTURER FOR ALL EQUIPMENT, INCLUDING THE 36" ELECTRICAL CLEARANCE WHERE REQUIRED BY NEC.

24. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WHATEVER IS CALLED FOR IN EITHER IS BINDING AS THOUGH CALLED FOR IN BOTH. IF THERE IS A CONFLICT IN THE CONTRACT DOCUMENTS, THE MORE DEMANDING AND COSTLY DESIGN SHALL BE SELECTED FOR BIDDING PURPOSES. THE CONTRACTOR SHALL IMMEDIATELY PRESENT THE CONFLICT FOUND IN THE CONTRACT DOCUMENTS TO THE ARCHITECT/ENGINEER FOR RESOLUTION. IF THE RESOLUTION FAVORS A LESS COSTLY DESIGN, THE CONTRACTOR WILL BE REQUIRED TO REIMBURSE THE DIFFERENCE IN COST.

25. DRAWINGS SHALL NOT BE SCALED FOR ROUGH-IN MEASUREMENTS OR USED AS SHOP DRAWINGS. WHERE DRAWINGS ARE REQUIRED FOR THESE PURPOSES OR HAVE TO BE MADE FROM FIELD MEASUREMENTS, THE CONTRACTOR SHALL TAKE THE NECESSARY MEASUREMENTS AND PREPARE THE DRAWINGS.

26. BEFORE ANY WORK IS INSTALLED, DETERMINE THAT EQUIPMENT WILL PROPERLY FIT THE SPACE, THAT REQUIRED CLEARANCES CAN BE MAINTAINED AND THAT EQUIPMENT CAN BE LOCATED WITHOUT INTERFERENCES BETWEEN SYSTEMS, WITH STRUCTURAL ELEMENTS, OR WITH THE WORK OF OTHER TRADES.

27. CONFER, COOPERATE, AND COORDINATE WORK WITH OTHER TRADES. COORDINATE CEILING CAVITY SPACE CAREFULLY WITH ALL TRADES. IN EVENT OF CONFLICT, INSTALL MECHANICAL AND ELECTRICAL SYSTEMS WITHIN CAVITY SPACE IN FOLLOWING ORDER OF PRIORITY.

- A. PLUMBING WASTE AND VENT PIPING.
- B. ROOF DRAIN PIPING.
- C. DUCTWORK.
- D. ELECTRICAL CONDUIT AND LIGHTING.
- E. DOMESTIC HOT AND COLD WATER PIPING.
- F. FIRE SPRINKLER PIPING.

28. ALL NEW LOW PRESSURE MAIN OR TRUNK DUCT DIMENSIONS DO NOT INCLUDE 1" DUCT LINER INSULATION AND ARE INSIDE DUCT DIMENSION. REFER TO DUCT LINER & DUCTWRAP INSULATION SCHEDULE IN SPECIFICATIONS FOR THICKNESS OF DUCT LINER OR DUCTWRAP INSULATION.

29. ALL NEW MEDIUM PRESSURE MAIN, TRUNK, AND BRANCH DUCT DIMENSIONS SHOWN ON PLAN ARE INSIDE DUCT DIMENSIONS. REFER TO DUCT LINER & DUCTWRAP INSULATION SCHEDULE IN SPECIFICATIONS FOR THICKNESS OF DUCT LINER OR DUCTWRAP INSULATION.

30. M.C. SHALL INSTALL REFRIGERANT PIPING IN THE SHORTEST POSSIBLE ROUTE. EQUIPMENT MANUFACTURER SHALL SIZE ALL REFRIGERANT PIPING PRIOR TO INSTALLATION.

31. FURNISH ACCESS DOOR TO PROVIDE ACCESS TO ALL FIRE DAMPERS, SMOKE DAMPERS, BALANCING DAMPERS, AND OTHER EQUIPMENT WHERE THE REMOVAL OF LAY-IN CEILING TILES DOES NOT PROVIDE SUFFICIENT ACCESS. ACCESS DOORS FOR INSTALLATION IN FIRE RATED CONSTRUCTION SHALL HAVE APPROPRIATE FIRE RATING.

32. PROVIDE FIRE STOP MATERIAL TO SEAL AROUND ALL DUCTS WITHIN MECHANICAL CHASE THAT PENETRATE FLOOR. ALL DUCT OPENINGS IN FLOORS SHALL CONFORM TO SECTION 607.6.3 OF 2009 IMC.

33. THIS PROJECT IS SEEKING LEED CERTIFICATION. M.C. SHALL FAMILIARIZE HIMSELF WITH APPLICABLE CREDITS AND NOTIFY ENGINEER OF ANY CONFLICTS.

1. TOTAL SNOWMELT AREA = 3,660 S.F.±.

2. CONTRACTOR TO VERIFY MOST EFFICIENT ZONE.

3. LAYOUT. SNOW MELT & IN FLOOR TUBING.

3.A. CONTROLS SHALL CONSIST OF PROGRAMMABLE ELECTRONIC COMPONENTS.

3.B. ALL COMPONENTS OF SYSTEM SHALL BE PROVIDED BY ONE MANUFACTURER INCLUDING TUBING, MANIFOLDS, SUPPORT BRACKETS, FASTENING SYSTEMS, TUBE BEND SUPPORTS, COUPLINGS, SLICING NIPPLES, ETC.

3.C. TUBING SHALL BE CROSS-LINKED POLYETHYLENE WITH AN OXYGEN DIFFUSION BARRIER RATED AT 180°F AT 100 PSIG. PIPE SHALL BE 5/8" ID AND MEET ASTM F876-877

3.D. TUBING SHALL CARRY A TEN-YEAR NON-PRORATED WARRANTY AGAINST FAILURE DUE TO MANUFACTURING DEFECTS OR EXPOSURE TO STRESS CRACKING AGENTS. ALL OTHER COMPONENTS TO BE PROVIDED WITH ONE-YEAR WARRANTY FROM DATE OF OWNER ACCEPTANCE OF PROJECT.

3.E. MANIFOLDS SHALL BE MADE OF BRASS RESISTANT TO DEZINCIFICATION AND BE CAPABLE OF MULTIPLE UNIT CONNECTIONS. RETURN MANIFOLDS SHALL BE PROVIDED WITH AN AIR VENT AND HOSE ADAPTER, AND HAVE A BALANCING VALVE FOR EACH TUBING CIRCUIT. SUPPLY MANIFOLD TUBING CIRCUIT CONNECTIONS SHALL BE CAPABLE OF BEING LEFT MANUALLY OPEN OR FITTED WITH A 24-VOLT VALVE OPERATOR FOR ZONE CONTROL.

3.F. CONTRACTOR SHALL HAVE AN OPTION OF SHOP-FABRICATING MANIFOLDS THAT DO NOT HAVE INDIVIDUAL CIRCUIT BALANCING VALVES ONLY WHEN ALL CIRCUITS ARE CONNECTED TO THE MANIFOLD TO ALLOW EQUIVALENT PRESSURE DROP ACROSS EACH CIRCUIT. SUPPLY MANIFOLDS TO HAVE SHUT-OFF VALVE AND MANUAL AIR VENT. RETURN MANIFOLDS SHALL HAVE A SHUT-OFF VALVE AND BALANCE VALVE WITH METER PORTS.

3.G. CONTRACTOR TO COORDINATE INSTALLATION OF 3/4" CONDUIT TO SNOW MELT MANIFOLDS FOR SNOW MELT SYSTEM CONTROLS.

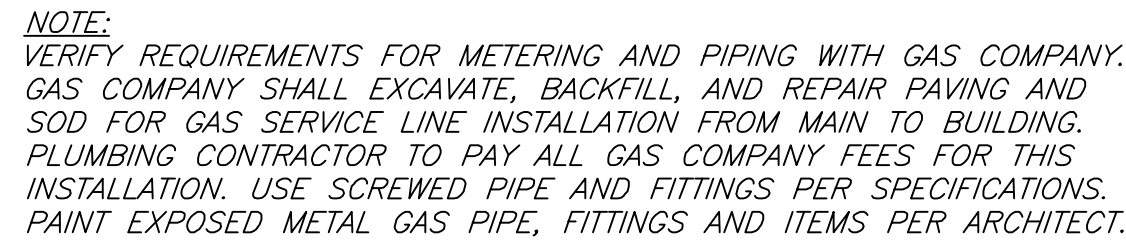
4. SNOW MELT TO INCLUDE CURB AND GUTTER NEXT TO SNOWMELT AREAS, EXCEPT FOR CURB AND GUTTERS ADJACENT TO PUBLIC STREETS.

5. SIZE ALL PIPING TO MANIFOLDS AT A MAXIMUM PRESSURE LOSS OF 4' PER 100' (EQUIVALENT LENGTH) OF PIPE.

1. AREA TO BE PROVIDED WITH SNOW MELT, TYPICAL VARIATION IN HATCHING PATTERN FOR VISUAL SEPARATION OF ZONES ONLY.

GLYCOL FEED SYSTEM GES-SI
(SNOW MELT SYSTEM) NEPTUNE (OR EQUIVALENT) CHEMICAL
PUMP GLYCOL FEED SYSTEM G-50-1A, 1.5 GPM AT 100 PSI,
1/3 HP PUMP MOTOR, 115V/1PH W/ POWER CORD & PLUG,
LOW LEVEL LIGHT, AUDIBLE ALARM, DISCHARGE & SUCTION
PIPING ASSEMBLIES, 50-GALLON TANK W/ POLY COVER,
NEMA 4X CONTROL PANEL, BRASS ROTARY GEAR PUMP, HOA
SWITCH FOR PUMP. (ACCEPTABLE ALTERNATE BY CALCIUM
CONTROL, INC.)

GLYCOL FEED SYSTEM GFS-HI
(HEATING WATER SYSTEM) NEPTUNE (OR EQUIVALENT)
CHEMICAL PUMP GLYCOL FEED SYSTEM G-50-1A, 1.5 GPM
AT 100 PSI, 1/3 HP PUMP MOTOR, 115V/1PH W/ POWER
CORD & PLUG, LOW LEVEL LIGHT, AUDIBLE ALARM,
DISCHARGE & SUCTION PIPING ASSEMBLIES, 50-GALLON TANK
W/ POLY COVER, NEMA 4X CONTROL PANEL, BRASS ROTARY
GEAR PUMP, HOA SWITCH FOR PUMP. (ACCEPTABLE
ALTERNATE BY CALCIUM CONTROL, INC.)



N.T.S.

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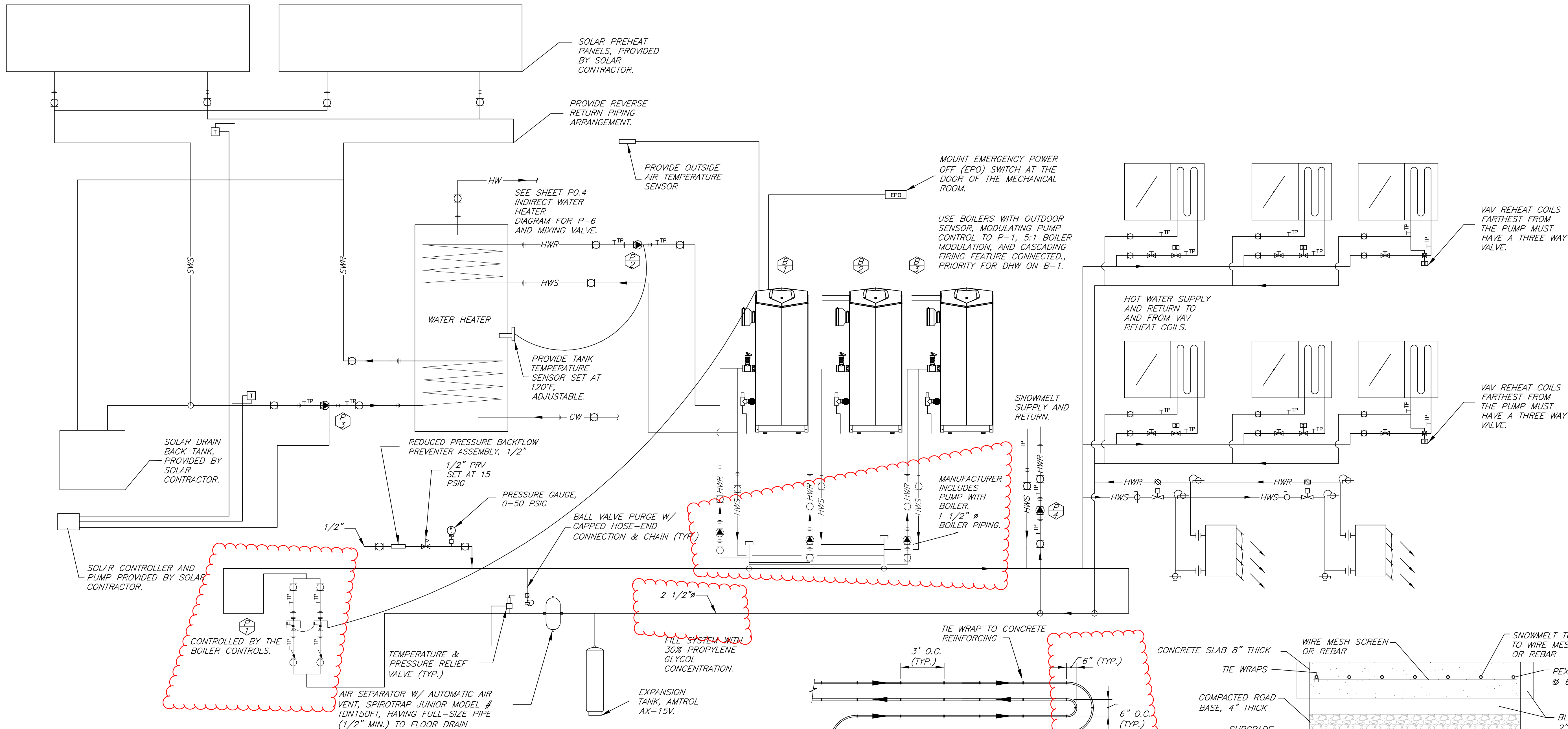
*NOTES
CONTINUED*

PROJ. NO. 2013-247.001

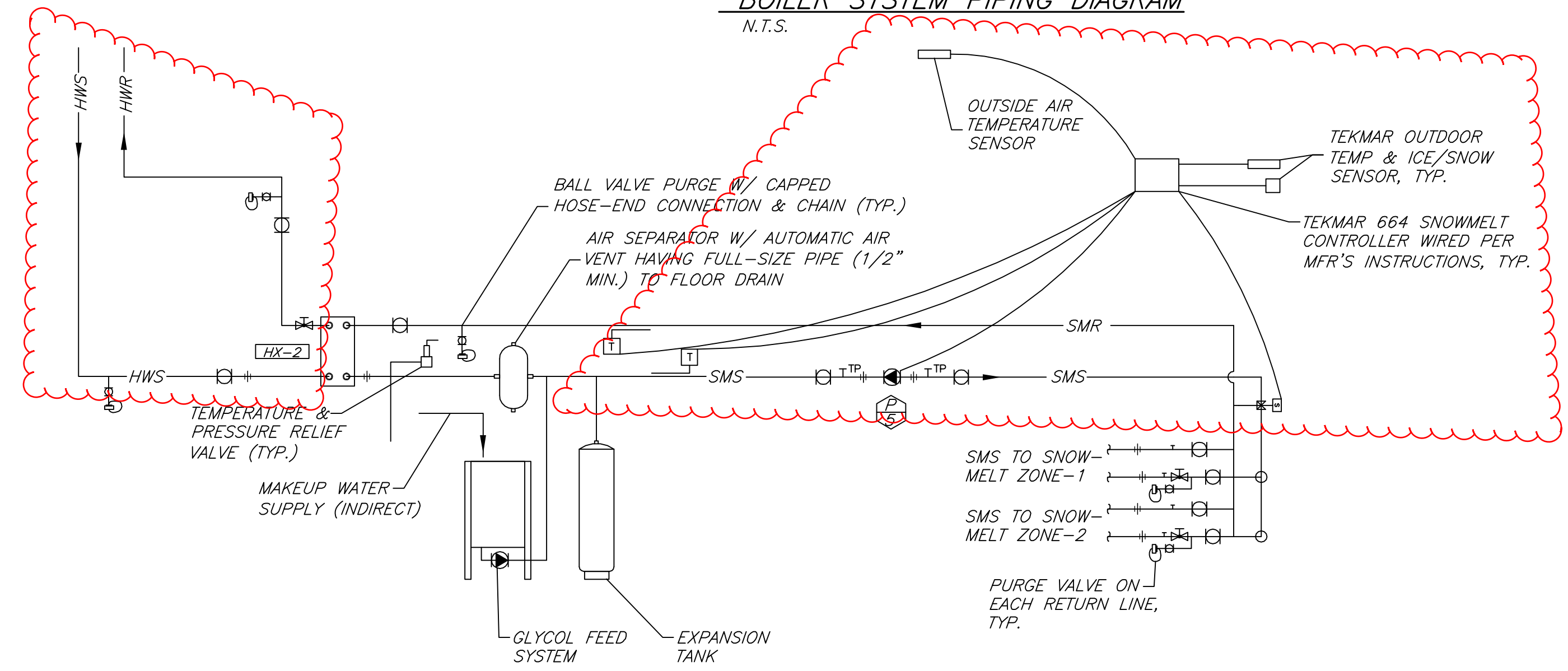
PROJECT DATE: 5/9/14

SHEET NUMBER:

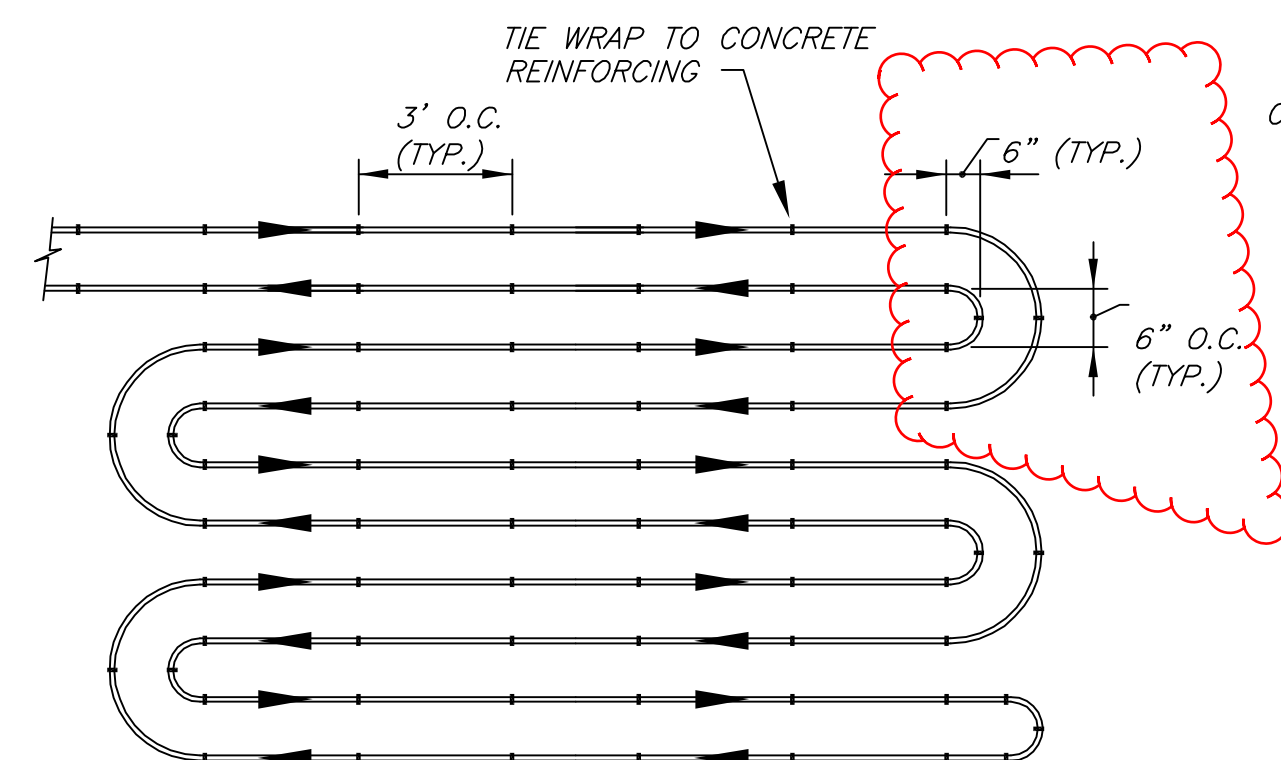
\\2013\2013-247_Ridgway\003 MEP\14-Dwg\1401\1401-01\1401-01.dwg Printed: Fri, 30 May 2014 4:00pm Project: Fri, 08 Jun 2014 4:00pm User: thoskwa



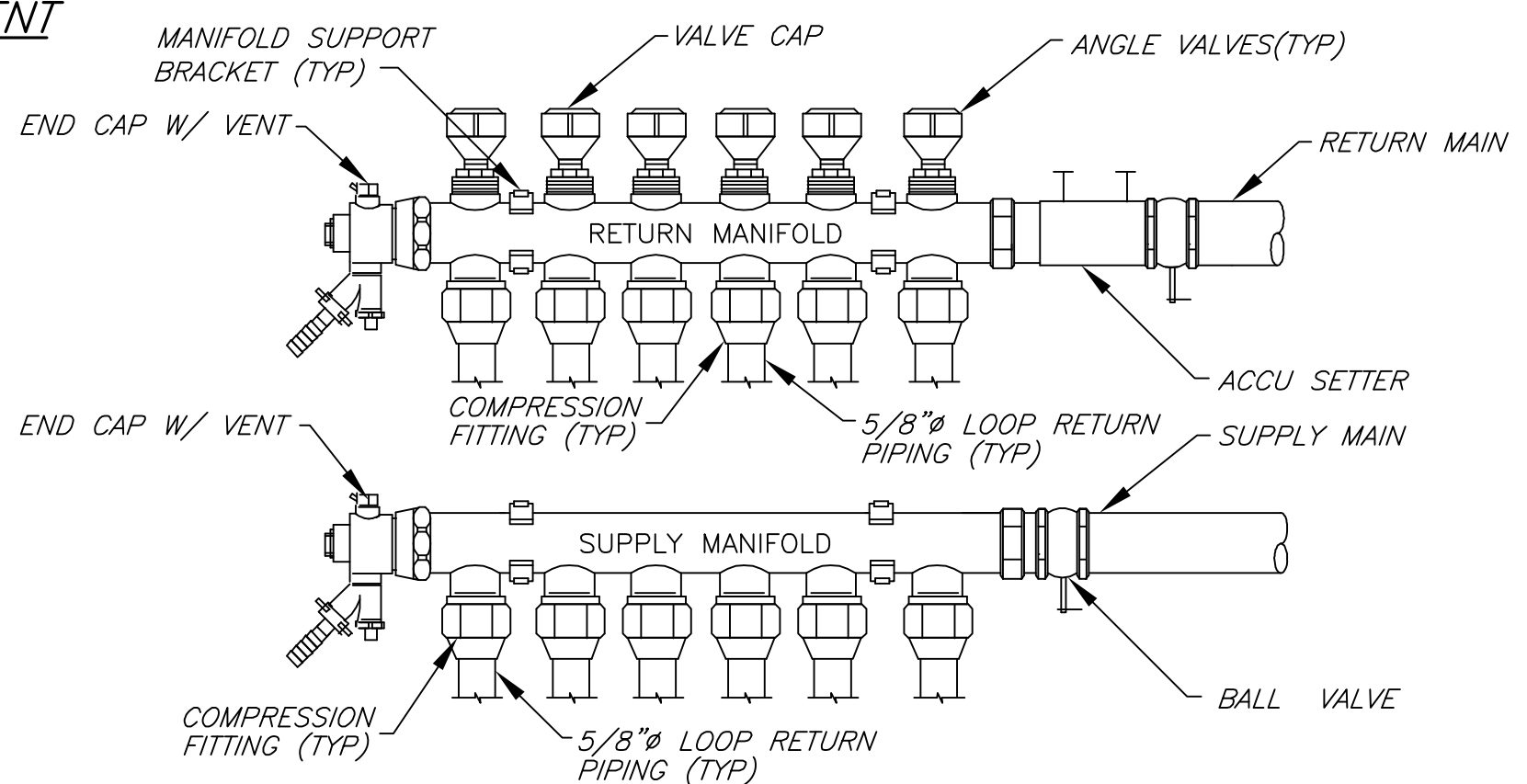
BOILER SYSTEM PIPING DIAGRAM
N.T.S.



SNOWMELT SYSTEM PIPING DIAGRAM
N.T.S.



TYPICAL SNOWMELT PIPING ARRANGEMENT
N.T.S.



STANDARD RADIANT SYSTEM MANIFOLD DETAIL (ANGLE VALVES)
N.T.S.

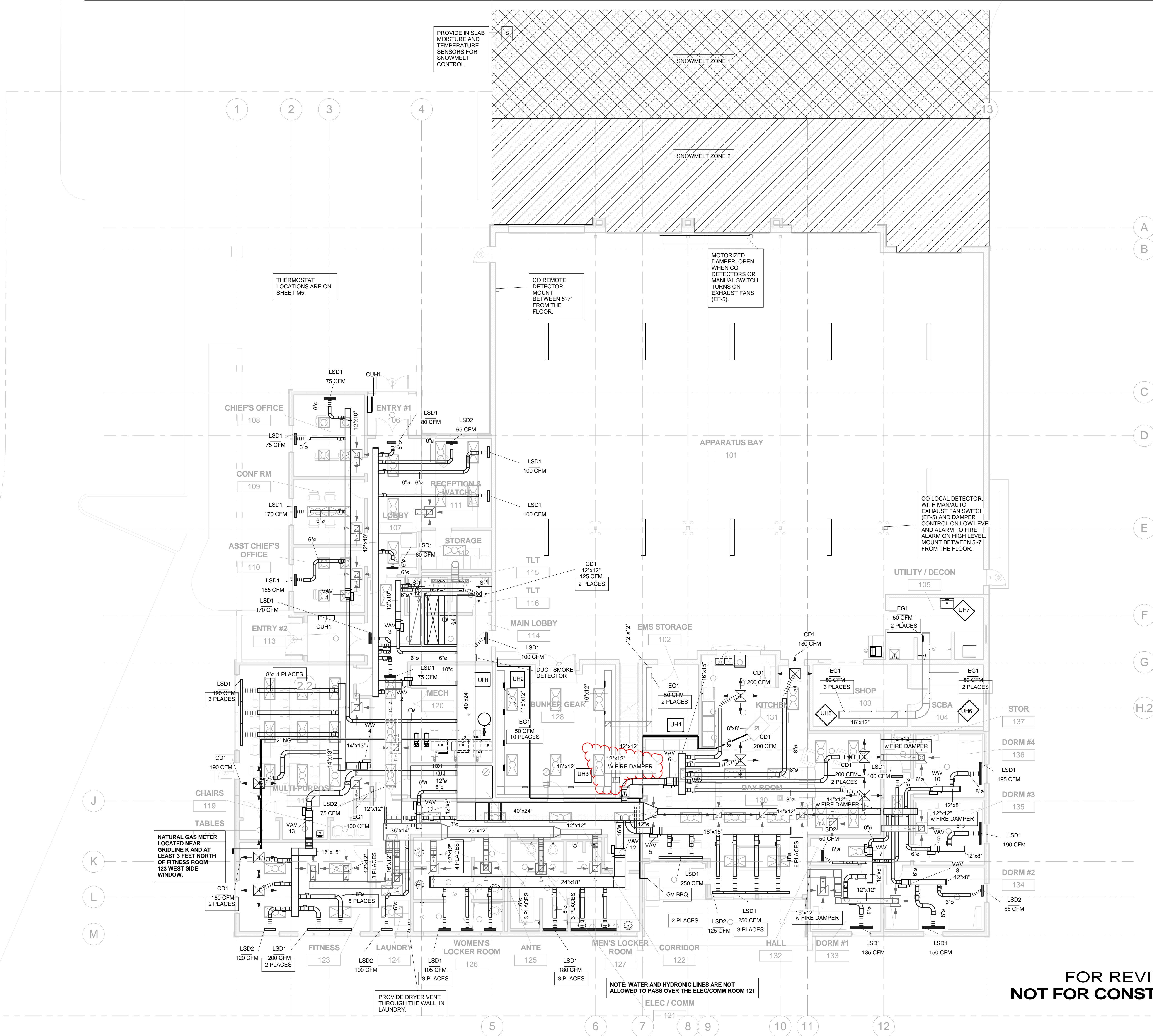
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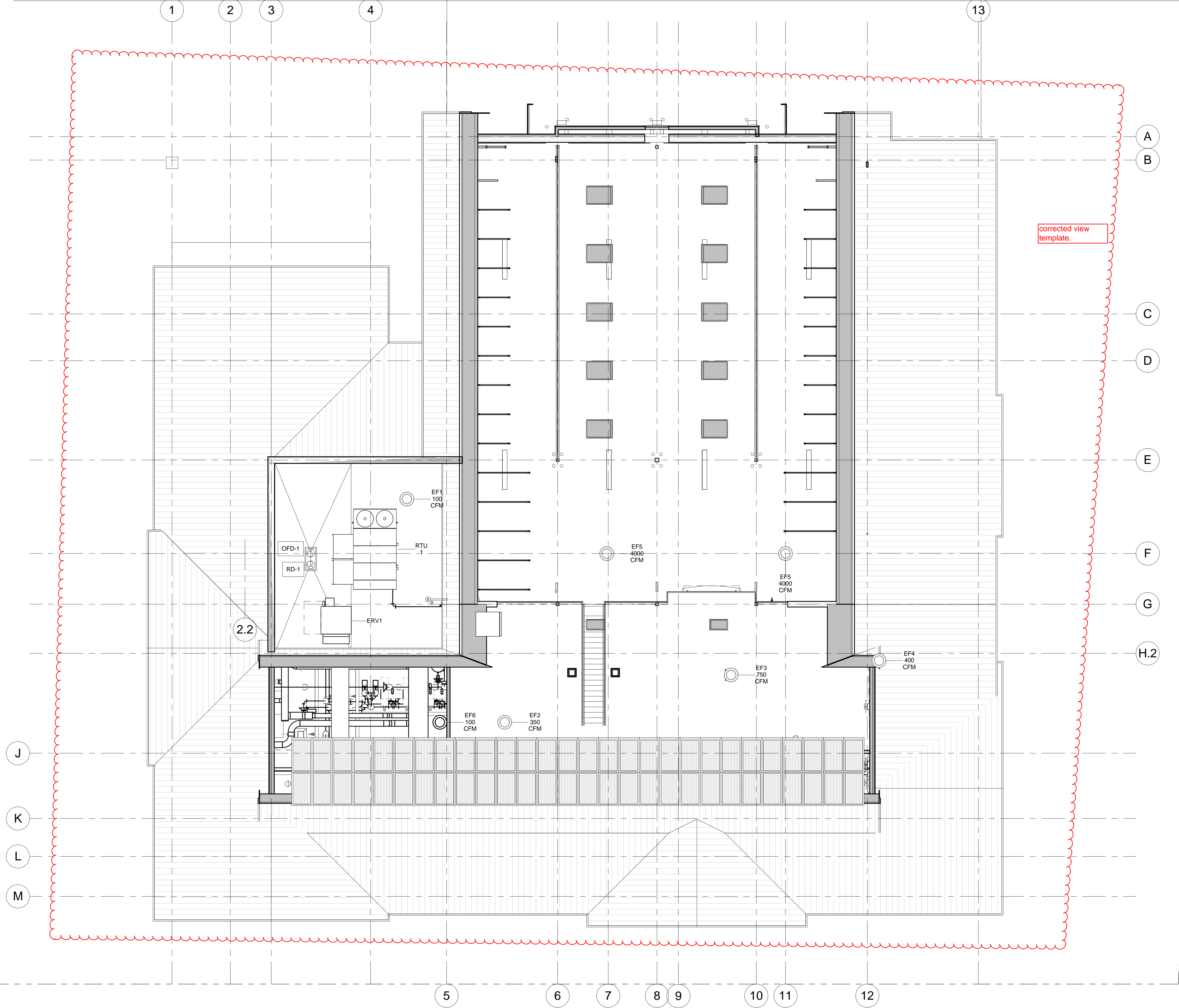
BOILER PLANT DETAILS

PROJ. NO. 2013-247.001
PROJECT DATE: 5/9/14
SHEET NUMBER:

6/6/2014 3:43:40 PM



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LOT 26-B1, RIDGWAY, CO 81432

ISSUE LOG

ROOF PLAN

PROJECT NO.: 2013-247.001

PROJECT DATE: 5/9/14

SHEET NUMBER:

M3

\\2013\\2013-247_Ridgway\\003 MEP\\In-Dwg\\1\\Tony's_Cad\\WPD_Schedule.dwg Saved: Fri, 06 Jun 2014 3:05pm Plotted: Fri, 06 Jun 2014 3:06pm thschoke

PLUMBING FIXTURE SCHEDULE							
SYM.	TYPE	A.D.A.	ACCESSORIES	FINISH	MANUFACTURER AND MODEL NUMBER	FAUCET TRIM MFG. & MODEL #	REMARKS
WC-1	FLUSH VALVE WALL HUNG WATER CLOSET	YES	SEAT	WHITE/STAINLESS	SLOAN HET WETS 2020.1403-128 SMOOTH	SLOAN WES111-128 DUAL FLUSH	FLUSH VALVE TO BE DUAL FLUSH
WU-1	WALL HUNG WATERLESS URINAL	YES	DRAIN, ADA INSULATION PACKAGE	WHITE/STAINLESS	SLOAN WES-1000	WES-150 CARTRIDGE KIT	
FD-1	FLOOR DRAIN	-	-	STAINLESS	ZURN Z415B-IC	-	
SD-1	SHOWER DRAIN	-	-	BRONZE	ZURN Z420	-	
TD-1	TRENCH DRAIN	-	ZURN P886-1/4-NS, ZURN 8601	PLASTIC	ZURN Z886	-	
SH-1	SHOWER VALVE AND HEAD	-	-	STAINLESS	MOEN ADLER POSI TEMP L82691	SHOWER HEAD MOEN 6300 EP	SHOWER HEAD TO BE LESS THAN 2.0 GPM
SVH-1	SHOWER VALVE, HEAD, AND WAND	-	-	STAINLESS	AMERICAN STANDARD 1662.743	-	SHOWER HEAD TO BE LESS THAN 2.0 GPM
BFP-1	BACK FLOW PREVENTER	-	-	BRASS	ZURN 950XLT 1"	-	
BFP-2	BACK FLOW PREVENTER	-	-	BRASS	ZURN 950XLT 2"	-	
DF1	DRINKING FOUNTAIN	YES	CANE APRON	STAINLESS /STAINLESS	ELKAY EDFPVR217C	-	
PBS-1	PRESSURE BOOST SYSTEM	-	2 GALLON EXPANSION TANK	-	GRUNDFOS 15BMQE-05A-110	-	
RD-1, OFD-1	ROOF AND OVERFLOW ROOF DRAINS	-	-	STEEL/PLASTIC	ZURN Z164	-	
MS-1	MOP SINK	-	-	TERRAZO/CHROME	FIAT TBS-3000	FIAT 830-AA	
EW-1	EMERGENCY EYE WASH	-	-	STAINLESS STEEL/CHROME	GUARDIAN G1891	-	
EW-1	EXTERIOR WALL HYDRANT	-	-	STAINLEES/BRASS	ZURN 1305 12"	-	
S-1	A.D.A. BATH SINK	YES	STOPPER DRAIN, DRAIN & ADA INSULATION PACKAGE	WHITE/STAINLESS	ZURN Z5340	MOEN 8413F03	FAUCET TO ≤ 0.5 GPM
S-2	MULTI-PURPOSE ROOM SINK	-	STRAINER BASKET	STAINLESS /STAINLESS	ELKAY LRQ1716	MOEN CAMERIST 4905	
S-3	LOCKER ROOM SINKS	-	STOPPER DRAIN, DRAIN & ADA INSULATION PACKAGE	WHITE/STAINLESS	AMERICAN STANDARD RONDALYN 0491.019	MOEN 8413F03	FAUCET TO ≤ 0.5 GPM
S-6	LOCKER ROOM SINKS	-	STOPPER DRAIN, DRAIN & ADA INSULATION PACKAGE	WHITE/STAINLESS	AMERICAN STANDARD RONDALYN 0491.019	MOEN CHATEAU L4621	
S-4	KITCHEN SINK	-	GD-1, STRAINER BASKET, SPRAYER	STAINLESS /STAINLESS	ELKAY CR4322	MOEN CAMERIST 7840	
GD-1	KITCHEN GARBAGE DISPOSAL	-	-	-	INSINKERATOR BADGER 5	-	
S-5	UTILITY DECON SINK	-	STRAINER BASKET, SPRAYER	STAINLESS /STAINLESS	ELKAY LRSQ3322	MOEN CHATEAU 7430	
HB-1	HOSE BIBB	APPARATUS BAY HOSE BIBB	-	BRASS	ARROWHEAD BRASS 301SC	-	
FF-1	FIREMEN'S FILL	APPARATUS BAY FIRE TRUCK FILL	-	BRASS	ELKHART BRASS H28	-	
NOTES: FIXTURE EQUIVALENTS: AMERICAN STANDARD, KOHLER, CRANE, UNIVERSAL RUNDLE, FIAT, STERN WILLIAMS DRAIN EQUIVALENTS: JOSAM, WADE, SMITH, ZURN FAUCET EQUIVALENTS: CHICAGO FAUCET, SPEARMAN, KOHLER, DELTA, AMERICAN STANDARD							

PLUMBING PIPING LEGEND

PIPING

EXISTING PIPING IS SHOWN IN LIGHT LINETYPE,
PROPOSED PIPING IS SHOWN IN BOLD LINETYPE,
NOT ALL ITEMS MAY APPEAR ON DRAWINGS.

—CWS—	CHILLED WATER SUPPLY
—CWR—	CHILLED WATER RETURN
—CW—	COLD WATER
—CA—	COMPRESSED AIR
—CS—	CONDENSER WATER SUPPLY
—CR—	CONDENSER WATER RETURN
—HWR—	HEATING WATER RETURN
—HWS—	HEATING WATER SUPPLY
—HW—	HOT WATER—DOMESTIC
—HWC—	HOT WATER CIRCULATION—DOMESTIC
—NG—	NATURAL GAS
—LPG—	LIQUIFIED PETROLEUM GAS
—SS—	SANITARY SEWER
—SV—	SANITARY VENT
—SMS—	SNOWMELT SUPPLY
—SMR—	SNOWMELT RETURN
—WA—	WASTE
—	ELBOW
—○—	ELBOW UP
—●—	ELBOW DOWN
—+—	TEE
—+○—	TEE UP
—+●—	TEE DOWN
—┘—	PIPE CAP
—└—	PIPE BREAK
—→—	FLOW ARROW

PIPING ACCESSORIES

—A—	ANGLE VALVE LEFT, GATE OR GLOBE
—B—	ANGLE VALVE RIGHT, GATE OR GLOBE
—C—	BALANCING VALVE, CALIBRATED
—D—	BALL VALVE
—E—	BUTTERFLY VALVE
—F—	CHECK VALVE
—G—	CONTROL VALVE, 2-WAY
—H—	CONTROL VALVE, 3-WAY
—I—	GATE OR ISOLATION VALVE
—J—	PLUG VALVE WITH MEMORY STOP
—K—	PRESSURE REDUCING VALVE
—L—	PRESSURE REGULATING VALVE
—M—	RELIEF VALVE
—N—	SOLENOID VALVE
—O—	TEMPERATURE & PRESSURE RELIEF VALVE
—P—	THERMOSTATIC EXPANSION VALVE
—Q—	UNION
—R—	P-T PORT
—S—	STRAINER
—T—	THERMOMETER IN PIPELINE
—U—	HOSE BIBB
—V—	PRESSURE INDICATOR
—W—	HORIZONTAL CLEANOUT
—X—	FLOOR CLEAN OUT
—Y—	TWO-WAY CLEANOUT
—Z—	FLOOR DRAIN OR SHOWER DRAIN
—AA—	FLOOR SINK
—AB—	AQUASTAT
—AC—	FLOW SWITCH
—AD—	PRESSURE SWITCH
—AE—	TEMPERATURE SENSOR
—AF—	PUMP
—AG—	MANUAL AIR VENT, AUTOMATIC AIR VENT
—AH—	TEMPERATURE & PRESSURE TEST PLUG
—AI—	CONCENTRIC REDUCER
—AJ—	ECCENTRIC REDUCER
—AK—	EXPANSION JOINT
—AL—	PIPE ANCHOR
—AM—	FLEXIBLE CONNECTION
—AN—	FLEXIBLE CONNECTION
—AO—	PRESSURE SENSOR
—AP—	DIFFERENTIAL PRESSURE SENSOR
—AQ—	REFRIGERANT SENSOR
—AR—	EMERGENCY SHUT OFF SWITCH
—AS—	VACUUM BREAKER

PLUMBING GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE RULES, REGULATIONS AND CODES OF THE STATE OF COLORADO AND THE LOCAL JURISDICTIONAL AUTHORITY.
- EQUIPMENT SHALL CONFORM TO STATE AND/OR LOCAL ENERGY CONSERVATION STANDARDS.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO RESULT IN A COMPLETE MECHANICAL INSTALLATION IN COMPLETE ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK UNDER HIS/HER CONTRACT WITH ALL OTHER BUILDING TRADES.
- ALL DUCTWORK TO BE HELD TIGHT TO STRUCTURE UNLESS NOTES OTHERWISE.
- THIS CONTRACTOR SHALL REVIEW EXISTING FIELD CONDITIONS PRIOR TO THE PURCHASE, FABRICATION AND INSTALLATION OF ANY EQUIPMENT, DUCTWORK, PIPING, ETC. AND SHALL INFORM THE ARCHITECT OR GENERAL CONTRACTOR OF ANY DISCREPANCIES FOR RESOLUTION. ITEMS NOT SPECIFICALLY MENTIONED IN THE SPECIFICATION OR NOTED ON THE DRAWINGS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.
- THIS CONTRACTOR SHALL PROVIDE ALL MANUAL AND AUTOMATIC STARTERS FOR THE EQUIPMENT INDICATED ON THE DRAWINGS.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW EVERY DUCTWORK AND PIPING OFFSET REQUIRED.
- THIS CONTRACTOR SHALL COORDINATE WITH THE EXISTING, AND OR NEW STRUCTURE ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND CEILING TO PROVIDE OFFSETS AS REQUIRED AND APPROPRIATE.
- THIS CONTRACTOR SHALL PROVIDE ACCESS TO ALL EQUIPMENT, VALVES, DAMPERS, ETC. IN CONCEALED SPACES FOR SERVICING AND MAINTENANCE.
- TESTING, ADJUSTING AND BALANCING SHALL BE PERFORMED BY A SUBCONTRACTOR, CURRENTLY CERTIFIED BY EITHER AABC, NEBB OR TABC AGENCIES. SUBMIT COPY OF DATED CERTIFICATE TO ARCHITECT. PROVIDE THREE COPIES OF TESTING, ADJUSTING AND BALANCING REPORT TO ARCHITECT FOR REVIEW.
- PLUMBING CONTRACTOR TO COORDINATE SPACE REQUIREMENTS WITH ELECTRICAL CONTRACTOR IN SUPPLY OR RETURN (IBC 2009, IMC 2009, AND IEC 2009) DUCTWORK FOR DUCT SMOKE DETECTION INSTALLATION. DETECTOR IS TO BE MOUNTED BY MECHANICAL CONTRACTOR WITH POWER WIRING BY ELECTRICAL CONTRACTOR AND CONTROL WIRING BY MECHANICAL CONTRACTOR.
- THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SPATIAL REQUIREMENTS, ACOUSTICAL, THERMAL, AND ELECTRICAL PERFORMANCE CHARACTERISTICS AND COORDINATION OF ALL INSTALLATION REQUIREMENTS FOR EQUIPMENT SUBSTITUTIONS FROM THAT DEFINED AS THE BASIS FOR DESIGN. REVIEW AND APPROVAL BY THE DESIGN TEAM DOES NOT ALTER OR MITIGATE THIS RESPONSIBILITY.

WC-2 changed to WC-1, SH-1, SVH-1, DF-1, S-1, S-3, changed to meet LEED specifications.



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RIDGWAY FIRE STATION

RIDGWAY FIRE PROTECTION DISTRICT
LOT 26-B1, RIDGWAY, CO 81432

ISSUE LOG

PLUMBING
NOTES AND
SCHEDULES

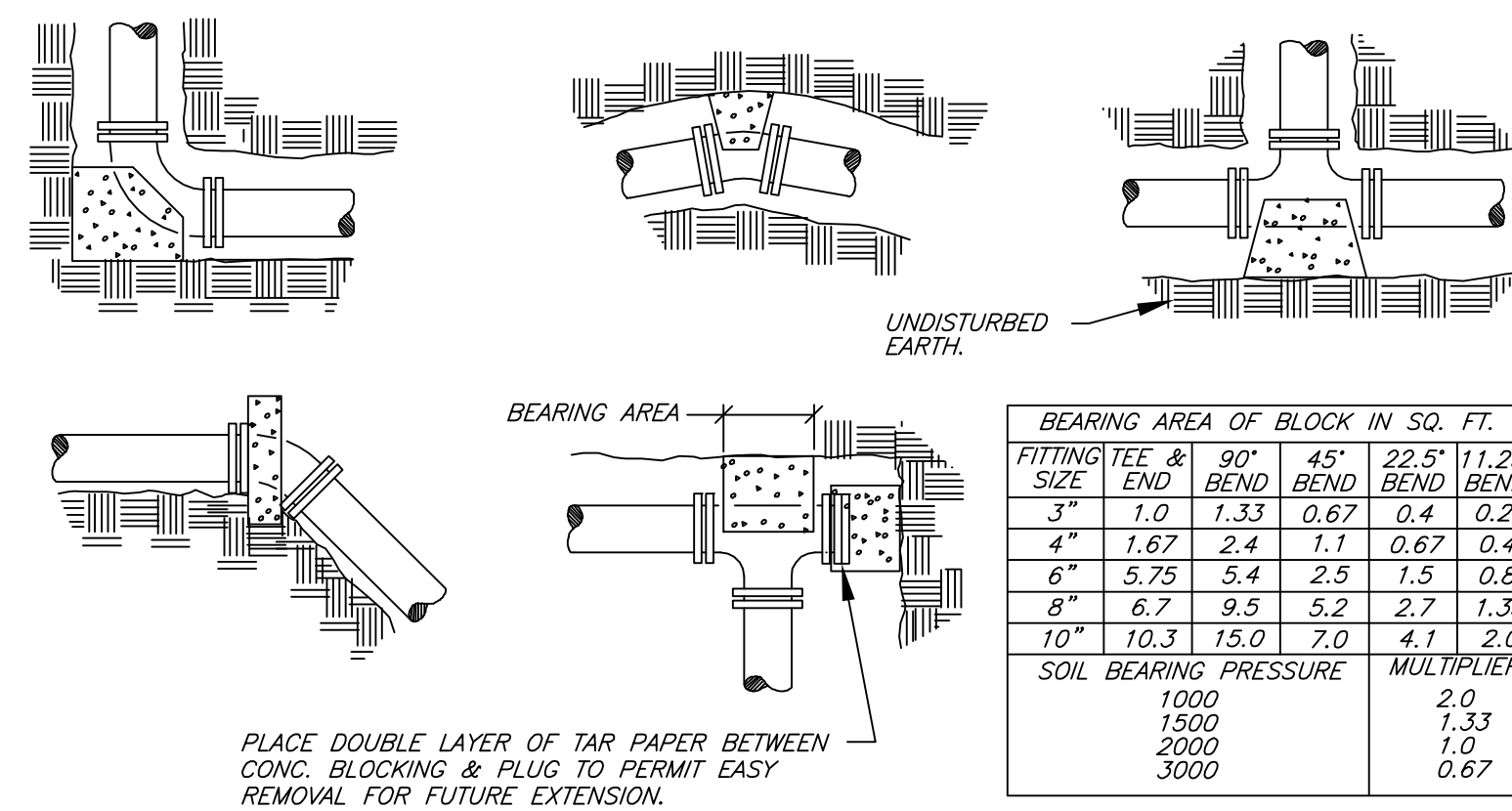
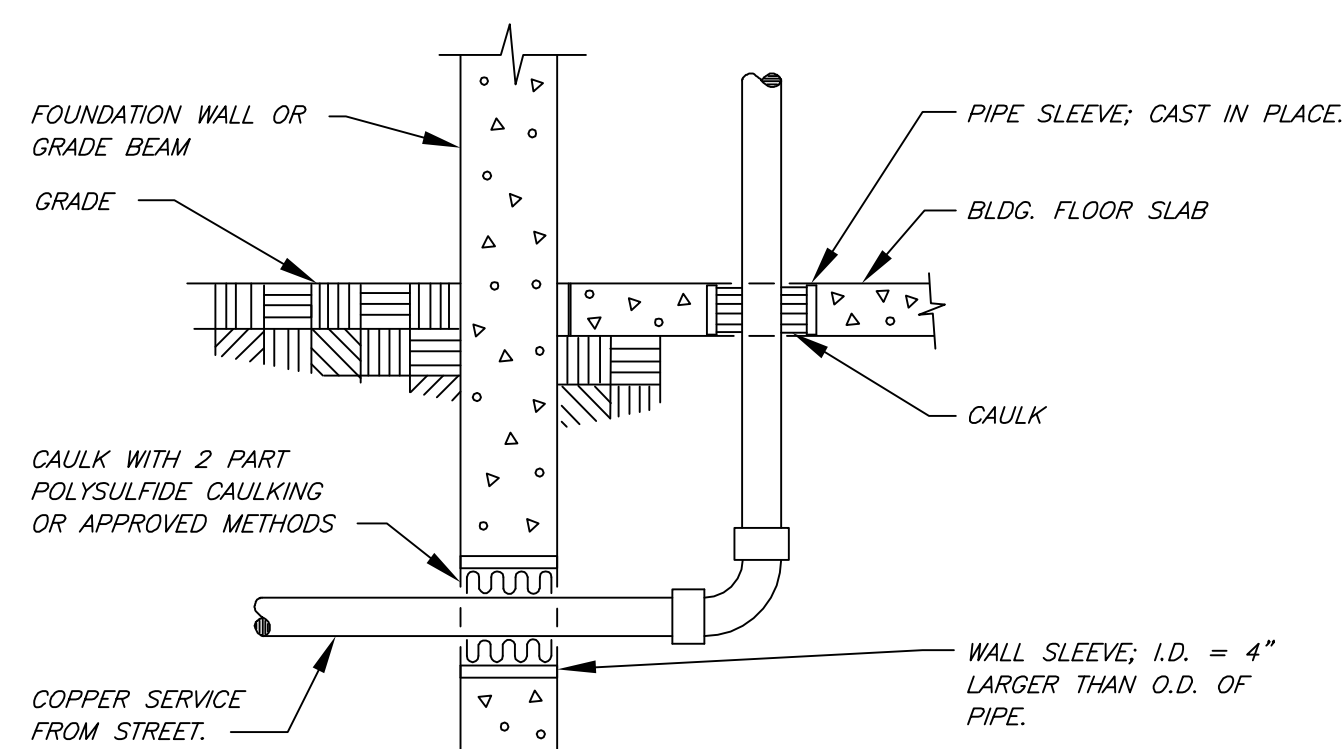
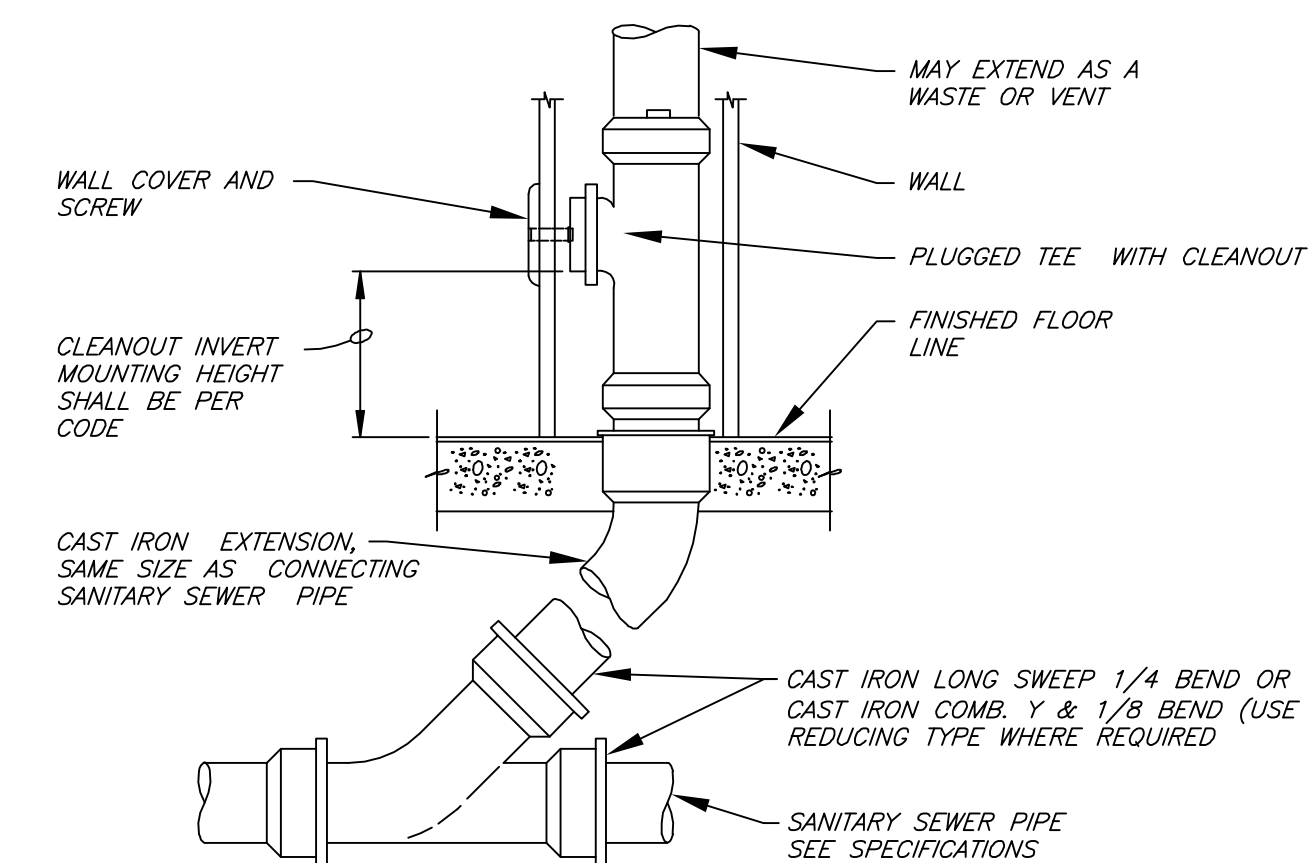
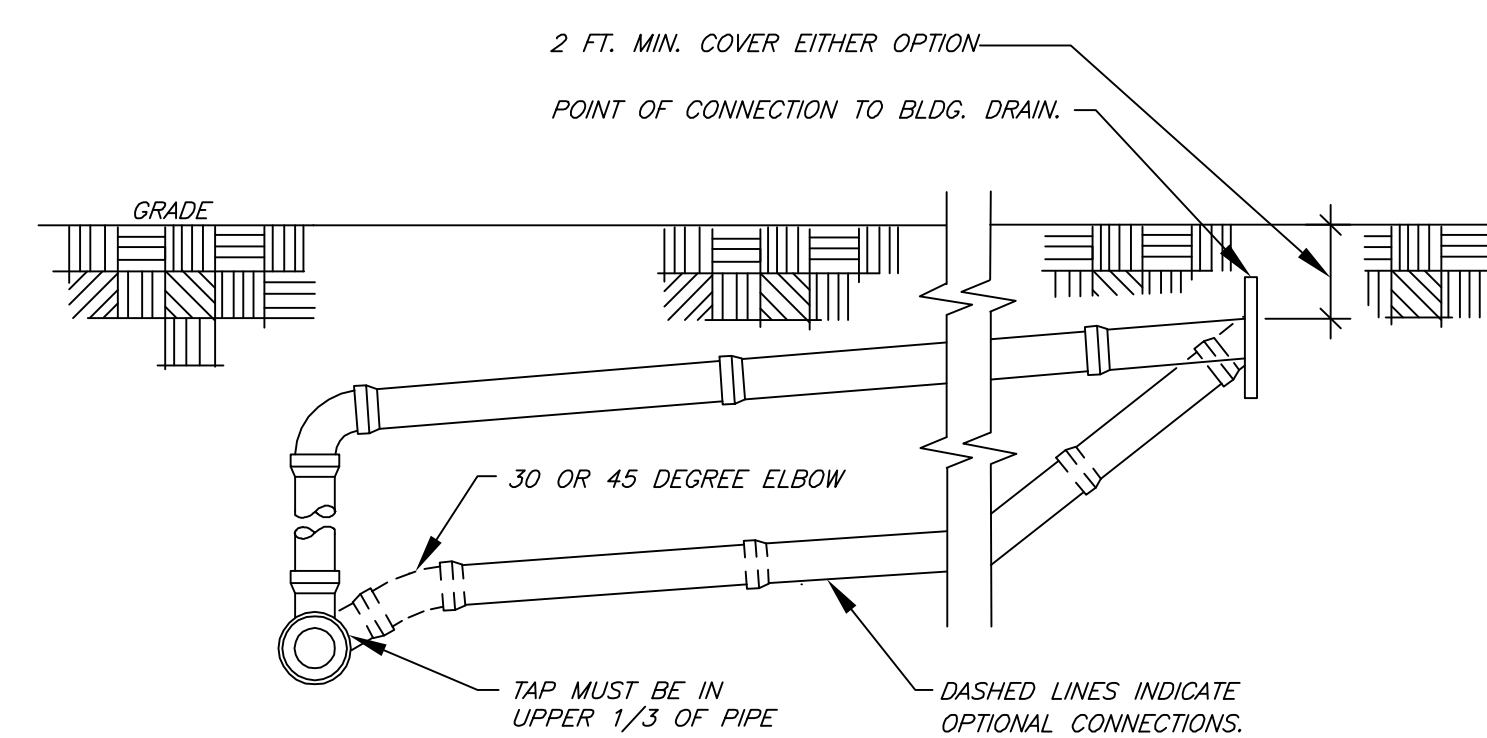
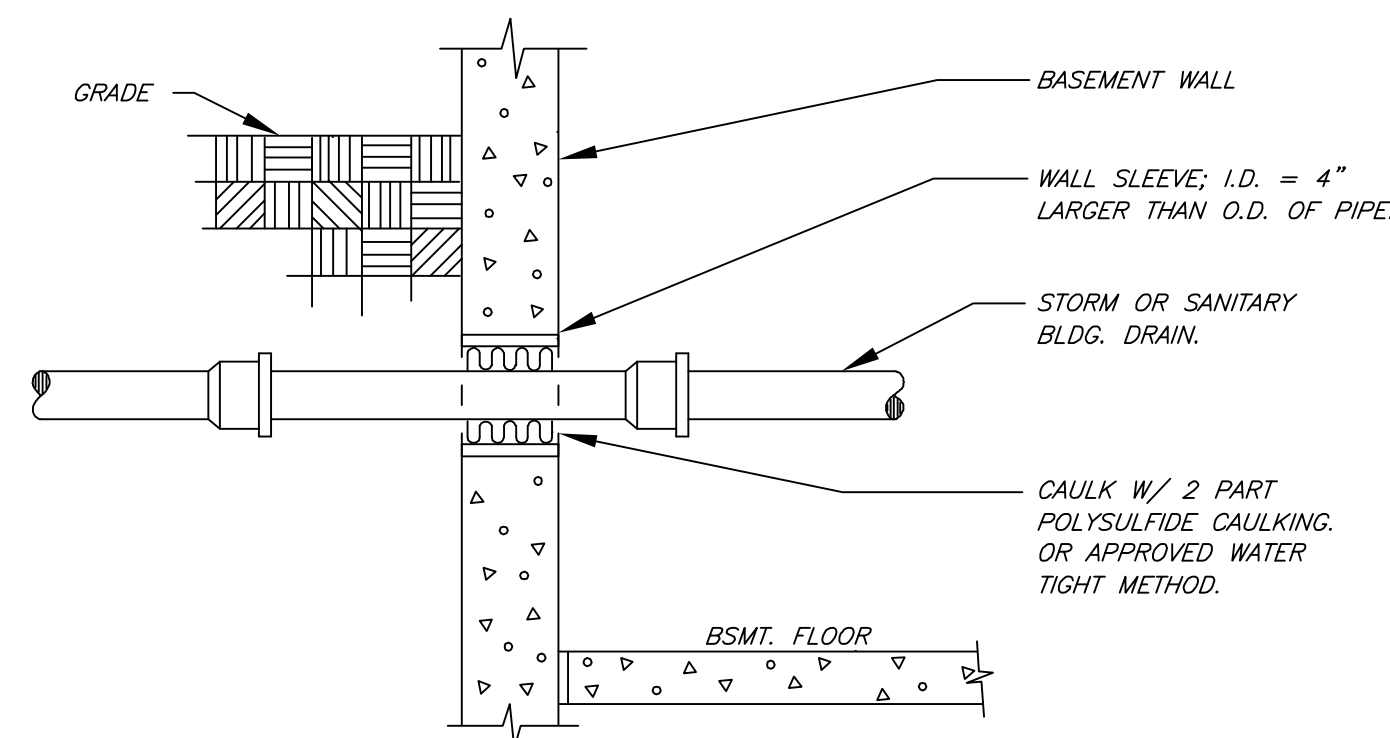
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PROJECT DATE: 5/9/14

SHEET NUMBER:

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BEARING AREA OF BLOCK IN SQ. FT.					
FITTING SIZE	TEE & END	90° BEND	45° BEND	22.5° BEND	11.25° BEND
3"	1.0	1.33	0.67	0.4	0.2
4"	1.67	2.4	1.1	0.67	0.4
6"	5.75	5.4	2.5	1.5	0.8
8"	6.7	9.5	5.2	2.7	1.3
10"	10.3	15.0	7.0	4.1	2.0
SOIL BEARING PRESSURE				MULTIPLIER	
1000				2.0	
1500				1.33	
2000				1.0	
3000				0.67	

