

Denver Public Schools Purchasing Department 1617 S. Acoma St. Denver, Colorado 80223

INVITATION TO BID 14-MC-2240 ADDENDUM NUMBER TWO August 18, 2014

THIS ADDENDUM MUST BE ACKNOWLEDGED.

THIS ADDENDUM SHALL BECOME A PART OF THIS SOLICITATION. Amend Invitation to Bid 14-MC-2240 as follows:

Contractor question: Where is parking available during construction? Answer: Parking for contractors will be available at a lot on the southwest side of the intersection of 7th & Canosa.

See attached below signature block: 12035.02AD-02_addendum 2-complete.pdf

If your proposal has been submitted and you wish to amend it, please modify your proposal on company letterhead. <u>The amended proposal must be received prior to or included at the time</u> and date set for the proposal opening. Each modification submitted to the District's Purchasing Office located at 1617 S. Acoma St. Denver, CO 80223. It must have Vendor's name and return address and the applicable RFP number and title of the RFP clearly marked on the face of the envelope.

If more than one modification is submitted, the modification bearing the latest date of receipt by the District's Strategic Sourcing Office will be considered the valid modification.

*****This addendum must be acknowledged, whether or not you amend your proposal.*****

This Addendum must be included in your submittal or proposal, providing you do not need to amend your proposal.

Name of Company:		Fax:
Address:	City/State:	Zip:
Contact Person:	Title:	Phone:
Authorized Representative's Signature:		Phone:
Printed Name:	Title:	Date:
	Approved by:	Date:
	Reviewed by:	Date:

14-MC-2240 Addendum # 2



PROJECT: Hilltop Service Center Archives Renovation 2800 West 7th Avenue Denver, CO 80204

OWNER: Denver Public Schools No. 1 Renee Verspoor – Project Manager 1617 S Acoma Street Denver, Co 80223

Addendum Instruction No: 02

DATE OF ISSUANCE: 08/18/2014

ARCHITECT PROJECT NO: 12035.02

ARCHITECT: R.T.A., Inc.

19 South Tejon Street, Suite 300 Colorado Springs, Co 80903

The following shall become as fully a part of the above-referenced Drawings and Specifications, as if herein written and shall take full and complete precedence over anything therein contained to the contrary.

Each Contractor shall acknowledge the receipt of this Addendum on the Bid Form and in so doing, shall also acknowledge his understanding of the impact on his work and that of his material suppliers.

Each Contractor shall be responsible for reading each and every item in this Addendum to ascertain to what extent and in what manner it affects the work in which he and his material suppliers are involved.

Please make the following changes and/or modifications to the documents:

Description:

Project Manual:

Product Substitutions

The following product substitutions have been submitted and reviewed for compliance with the construction documents and owner requirements. See below for list of products and status

102113 Toilet and Shower Compartments Hadrian Solid Plastic Toilet Partitions - DENIED, DPS requirements are for metal partitions only.

Item AD02-PM1

Section 01127- ALLOWANCES

1. Replace with attached specification section dated August 18, 2014.

Item AD02-PM2

Section 087100 DOOR HARDWARE

- 1. Page 4 of 15, section 1.7Warranty Period, revise to read:
 - a) Two years from date of Substantial Completion, except as follows:
 - b) Il Hardware items: Ten years guarantee from date of Substantial Completion for all parts.
 - c) Closers: Ten year replacement guarantee against mechanical failure from date of Substantial Completion.

- d) All locksets shall have a lifetime warranty.
- **2.** Page 7 of 15, Section 1.112 lock cylinders, items G, revise to read: "1. BEST cores only. No substitutions."
- 3. Page 14 of 15, Lock set 500, change function to "Intruder".
- **4.** Page 14 of 15 & 15 of 15, ALL Lock sets, shall include tail pieces for the permanent cores with the lever set.
- 5. Page 14 of 15 & 15 of 15, ALL hardware groups sets, shall include 16 ga. Stainless steel kickplates, 12" high, door width less 2", mounted ½" above bottom of door.

6.

Item AD02-PM3

Section 093100 Ceramic Tile

- 7. Page 4 of 9, Section 2.3 Tile Products, items B & D revise as following:
 - B. Glazed Wall Tile: Flat tile as follows:
 - 1. Module Size: 4 ¹/₄ by 4 ¹/₄ inches, Matte Finish
 - 2. Thickness: 5/16 inch.
 - 3. Field 80% Matte Price Group 1 or 2
 - 4. Accent #1 solid color 10% Semi-gloss group 1 or 2.
 - 5. Accent #2 solid color 10% Semi-gloss group 1 or 2
 - D. Porcelain Floor Tile: Flat tile as follows:
 - 1. Module Size: 2 by 2 inches, Matte Finish price group 1 & 2
 - 2. Thickness: 5/16 inch.
 - 3. Wall / Cove Base: Match daltile 2x2 Build up Base MB-5A
 - 4. Accent #1 solid color 10% price group 2
 - 5. Accent #2 solid color 10% price group 2
- **8.** Page 4 of 9, Section 2.3 Tile Products Delete item 6 describing requirements for kitchen tile. Not applicable for this project.
- **9.** Page 5 of 9, Section 2.4 Setting and Grouting Materials, item C, Polymer-modified tile grout (epoxy) shall be used in all locations. Colors shall be white for all wall tile and grey for floor tile.
- 10. Page 5 of 9, Section 2.4 Setting and Grouting Materials, add item F as follows: F. Primer/ Bond Coat / Bonding Agent, thin section two-component primer, composed of a modified elastomeric copolymer and cementitious filler powder. (Required at application over glazed masonry or surfaces that will not accept mortar.)

Item AD02-PM4

Section 08- SECTIONAL OVERHEAD DOORS

11. Add this specifications to the table of contents and to the specifications. Section is dated August 18, 2014.

Sheets:

Architectural Sheets:

Item AD02-A1 Sheet AD111 Replace with attached sheet with revision date of 8/18/2014. Item AD02-A2 Sheet A110A Replace with attached sheet with revision date of 8/18/2014.

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Item AD02-A3

Sheet AC111 Replace with attached sheet with revision date of 8/18/2014.

Mechanical Drawings:

Item AD02-M1

Sheet M000- Phase 2 hvac legend and notes Replace with attached sheet with revision date of 8/18/2014.

Item AD02-M2

Sheet MD111- Phase 2 upper level mechanical – plumbing demo plan Replace with attached sheet with revision date of 8/18/2014.

Item AD02-M3

Sheet M110- Phase 2 lower level hvac plan Replace with attached sheet with revision date of 8/18/2014.

Item AD02-M4

Sheet M111- Phase 2 upper level hvac plan Replace with attached sheet with revision date of 8/18/2014.

Item AD02-M5

Sheet M112- Phase 2 roof mechanical - plumbing plan Replace with attached sheet with revision date of 8/18/2014.

Item AD02-M6

Sheet M701- mechanical - plumbing schedules Replace with attached sheet with revision date of 8/18/2014.

Plumbing Drawings:

Item AD02-P1

Sheet PD110- phase 2 lower level demo plan Replace with attached sheet with revision date of 8/18/2014.

Item AD02-P2

Sheet P110- phase 2 lower level plumbing plan Replace with attached sheet with revision date of 8/18/2014.

Item AD02-P3

Sheet P111- phase 2 upper level plumbing plan Replace with attached sheet with revision date of 8/18/2014.

Electrical Drawings:

Item AD02-E1

Sheet E000-electrical legend and notes Replace with attached sheet with revision date of 8/18/2014.

Item AD02-E2

Sheet ED110-phase 2 lower level demo plan Replace with attached sheet with revision date of 8/18/2014.

Item AD02-E3

Sheet ED111-phase 2 upper level demo plan Replace with attached sheet with revision date of 8/18/2014.

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Item AD02-E4

Sheet E110-phase 2 lower level power plan

Replace with attached sheet with revision date of 8/18/2014.

Item AD02-E5

Sheet E111-phase 2 upper level power plan

Replace with attached sheet with revision date of 8/18/2014.

Item AD02-E6

Sheet E210-phase 2 lower level lighting plan

Replace with attached sheet with revision date of 8/18/2014.

Item AD02-E7

Sheet E211-phase 2 upper level lighting plan

Replace with attached sheet with revision date of 8/18/2014.

Item AD02-E8

Sheet E400-electrical one-line diagram and schedules

Replace with attached sheet with revision date of 8/18/2014.

Item AD02-E9

Sheet E500 – electrical schedules

Replace with attached sheet with revision date of 8/18/2014.

Attachments: CC:

SUBMITTED BY: Doug Abernethy AIA

SECTION 01127 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 LUMP-SUM ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials under allowance and shall include all general conditions, taxes, freight, and delivery to Project site.
- PART 2 PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.2 SCHEDULE OF ALLOWANCES

- A. Allowance No 1. Include in the base bid, an allowance for moving materials or moving services not identified on the drawings. General Contractor shall provide moving boxes, tape, tape guns, use of hand trucks, and moving services per the Owner's request. Costs of individual materials shall be agreed upon by DPS and General Contractor prior to purchase of any building materials or additional moving services. ALLOWANCE SUM OF: \$5,000.00.
- B. Allowance No 2. Include in Alternate number 5 an allowance for additional electrical power distribution including circuits, conduit, devices and related work for the Ricoh print shop. Scope may include additional I.T. cabling and conduit. Work shall be completed based on agreed upon scopes of work and cost of work. ALLOWANCE SUM OF: \$6,000.00.

END OF SECTION 01127

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Sectional overhead doors including supplementary items necessary to complete the Work required for their installation.

1.2 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide sectional overhead doors capable of withstanding the effects of gravity loads and the following loads and stresses without evidencing permanent deformation of door components:
 - 1. Wind Load: Uniform pressure acting inward and outward as required by local building code and Design Wind Pressure Schedule.
- B. Operation-Cycle Requirements: Design sectional overhead door components and operator to operate for not less than 20,000 cycles and for 10 cycles per day.

1.3 SUBMITTALS

- A. Product Data: For type and size of sectional overhead door and accessory. Include details of construction relative to materials, dimensions of individual components, profiles, and finishes. Provide roughing-in diagrams, operating instructions, and maintenance information. Include the following:
 - 1. Setting drawings, templates, and installation instructions for built-in or embedded anchor devices.
 - 2. Summary of forces and loads on walls and jambs.
- B. Shop Drawings: For special components and installations not dimensioned or detailed in manufacturer's data sheets.
- C. Samples for Verification: Of type of exposed finish required (aluminum), prepared on Samples of size indicated below and of same thickness and material indicated for Work. Where finishes involve normal color and texture variations, include Sample sets showing the full range of variations expected.
- D. Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced installer who is an authorized representative of the sectional overhead door manufacturer for both installation and maintenance of units required for this Project.
- B. Source Limitations: Obtain sectional overhead doors through one source from a single manufacturer. Obtain accessories from the sectional overhead door manufacturer.

PART 2 - PRODUCTS

2.1 PRODUCT STANDARD

- A. The Contract Documents are based on the following product to establish a standard of quality. Other acceptable manufacturers with products having equivalent characteristics may be considered provided deviations are minor and do not change the intended aesthetic, functional, and performance requirements as judged by the Architect.
 - 1. Manufacturer: Overhead Door Corporation.
 - 2. Product: Electric Operated Aluminum 511 Series $-\frac{1}{2}$ " Insulated glass.
- B. Following Manufacturers listed are "acceptable" only if manufacturer can evidence product compliance with requirements of Contract Documents:

The Cookson Company. Cornell Iron Works Inc. McKeon Rolling Steel Door Company, Inc. Raynor Garage Doors. Wayne-Dalton Corp.

C. For consideration of manufacturers other than the named product standard and other listed acceptable manufacturers, submit as a substitution according to the Conditions of the Contract and Division 01 Specification Sections.

2.2 ALUMINUM SECTIONS

- A. Construct door framing sections with extruded-aluminum shapes, complying with ASTM B 221 (ASTM B 221M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, with wall thickness not less than 0.065 inch for door section 1-3/4 inches deep. Fabricate sections with stile and rail dimensions and profiles shown. Join stiles and rails by welding or with concealed, 1/4-inch- minimum-diameter, aluminum or nonmagnetic stainless-steel through bolts, full height of door section. Form meeting rails to provide a weathertight-seal joint. Provide reinforcement for hardware attachment.
- B. Fabricate panels of aluminum sheet, complying with ASTM B 209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, not less than 0.050 inch thick, set in continuous vinyl channel retained with rigid, snap-in, extruded-vinyl moldings or with rubber or neoprene glazing gasket with aluminum stop.
- C. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
 - 1. Finish designations prefixed by AA conform to the system established by the Aluminum Association for designating aluminum finishes.
 - 2. Finish doors with manufacturer's standard, Class II, clear anodic finish; AA-M10C22A31; complying with AAMA 607.1.

2.3 TRACKS, SUPPORTS, AND ACCESSORIES

A. Tracks: Provide manufacturer's standard, galvanized steel track standard lift system, sized for door size and weight, designed to match existing lift type and clearances, and complying with ASTM A 653, for minimum G90 zinc coating. Provide complete track assembly including brackets, bracing, and reinforcement for

rigid support of ball-bearing roller guides for required door type and size. Slot vertical sections of track at 2 inches o.c. for door-drop safety device. Slope tracks at proper angle from vertical or otherwise design to ensure tight closure at jambs when door unit is closed. Weld or bolt to track supports.

- B. Track Reinforcement and Supports: Provide galvanized steel track reinforcement and support members, complying with ASTM A 36 and ASTM A 123. Secure, reinforce, and support tracks as required for door size and weight to provide strength and rigidity without sag, sway, and vibration during opening and closing of doors.
- C. Support and attach tracks to opening jambs with continuous angle welded to tracks and attached to wall. Support horizontal (ceiling) tracks with continuous angle welded to track and supported by laterally braced attachments to overhead structural members at curve and end of tracks.
- D. Weatherseals: Provide replaceable, adjustable, continuous, compressible weather-stripping gaskets of flexible vinyl, rubber, or neoprene fitted to bottom and at top of overhead door.
 - 1. Provide motor-operated doors with combination bottom weatherseal and sensor edge.
 - 2. In addition, provide continuous flexible seals at door jambs for a weathertight installation.
- E. Windows: Provide windows of ½" insulated units of 3 or 4 equal widths across width of opening and equal sections vertically in opening. Set glazing in vinyl, rubber, or neoprene glazing channel for metal-framed doors. Provide removable stops of same material as door section frames.
 - 1. Size: Manufacturer's standard panel sizes to match the existing opening. .
 - Glass Types: Low-E Tinted Fully-Tempered Insulating Glass
 Outboard Lite: 1/4 in (6 mm) thick tinted fully-tempered float glass.
 Product Description: PPG Solexia or equivalent of other acceptable glass
 manufacturer.
 Air Space: 1/4 in (12 mm).
 Inboard Lite: 1/4 in (6 mm) thick clear fully-tempered float glass with Low E coating on No.
 3 surface.
 Product Description: PPG Solarban 60 Low-E or equivalent of other acceptable
 glass manufacturer.
 - 3.
- F. Full Vision Panels: Manufacturer's standard aluminum tubular frame section fully glazed with glazing set in vinyl, rubber, or neoprene glazing channel with removable extruded-vinyl or aluminum stops.

2.4 HARDWARE

- A. General: Provide heavy-duty, corrosion-resistant hardware, with hot-dip galvanized, stainlesssteel, or other corrosion-resistant fasteners, to suit door type.
- B. Hinges: Provide heavy-duty galvanized steel hinges, of not less than 0.0747-inch thick uncoated steel, at each end stile and at each intermediate stile, per manufacturer's written recommendations for door size. Attach hinges to door sections through stiles and rails with bolts and lock nuts or lock washers and nuts. Use rivets or self-tapping fasteners where access to nuts is not possible. Provide double-end hinges, where required, for doors exceeding 16 feet in width, unless otherwise recommended by door manufacturer.

- C. Rollers: Provide heavy-duty rollers, with steel ball bearings in case-hardened steel races, mounted with varying projections to suit slope of track. Extend roller shaft through both hinges where double hinges are required. Provide 3-inch diameter roller tires for 3-inch track, 2-inch-diameter roller tires for 2-inch track, with case-hardened steel tires.
- D. Fabricate locking device assembly with lock, spring-loaded dead bolt, operating handle, cam plate, and adjustable locking bar to engage through slots in tracks, operable from inside only.
 - 1. Provide Lock cylinder to accept BEST core.
- E. Push/Pull Handles: Provide galvanized steel lifting handles on each side of door.

2.5 COUNTERBALANCING MECHANISM

- A. Torsion Spring: Operation by torsion-spring counterbalance mechanism consisting of adjustable-tension torsion springs, fabricated from oil-tempered-steel wire complying with ASTM A 229, Class II, mounted on a cross-header tube or steel shaft. Connect to door with galvanized aircraft-type lift cables with cable safety factor of at least 5 to 1. Provide springs calibrated for minimum operation – cycle requirements specified.
- B. Cable Drums: Provide cast-aluminum or gray-iron casting cable drums grooved to receive cable. Mount counterbalance mechanism with manufacturer's standard ball-bearing brackets at each end of shaft. Provide 1 additional midpoint bracket for shafts up to 16 feet long and 2 additional brackets at one-third points to support shafts more than 16 feet long, unless closer spacing is recommended by door manufacturer.
- C. Cable Safety Device: Include a spring-loaded, steel or bronze cam mounted to bottom door roller assembly on each side, designed to automatically stop door if either cable breaks.
- D. Bracket: Provide anchor support bracket, as required to connect stationary end of spring to the wall, to level shaft and prevent sag.
- E. Provide a spring bumper at each horizontal track to cushion door at end of opening operation

SCHEDULE 1 - OVERHEAD SECTIONAL DOOR OPERATORS

2.6 Overhead sectional door operator

- A. Door Medium Duty Operator.
- B. Electric Motor: UL listed.
- C. Rating:
 - 1. 1/2 horsepower single phase with automatic thermal reset overload.
- D. Motor frame comply with:
 - 1. NEMA 42 for 1/2 hp single phase.
- E. Construction:
 - 1. Open drip-proof construction.
- F. Reduction: Primary reduction is SuperBelt poly-V flex auto tension belt. Secondary reduction is by chain and sprocket.
- G. Duty cycle: Accommodate medium usage, up to 15 cycles per hour.
 - 1. Brake: Solenoid actuated band type. Optional on trolley models, standard on jackshaft and hoist models.

- 2. Limit System: Adjustable linear type synchronized with the door during release operation. Limit activation by opto sensors
- H. Control System: Microprocessor based with relay motor controls on a single board. System incorporates a Liquid Crystal Display (LCD) to display the system status. System shall include the following:
- I. A delay-on-reverse operating protocol.
- J. Maximum run timers in both directions of travel that limit motor run time in the event a clutch slips or some other problem occurs.
- K. Provisions for the connection of a 2-wire monitored photo-eye or a 2-wire monitored edge sensor, as well as non-monitored 2-wire sensing edges, photo-eyes or other entrapment protection devices.
- L. Control action will be constant contact close until a monitored entrapment device is installed, allowing for selection of momentary contact.
- M. Provisions for connection of single and/or 3-button control stations.
- N. On board open, close and stop control keys for local operation.
- O. Trolley operators with an inherent secondary reversal system.

PART 3 - EXECUTION

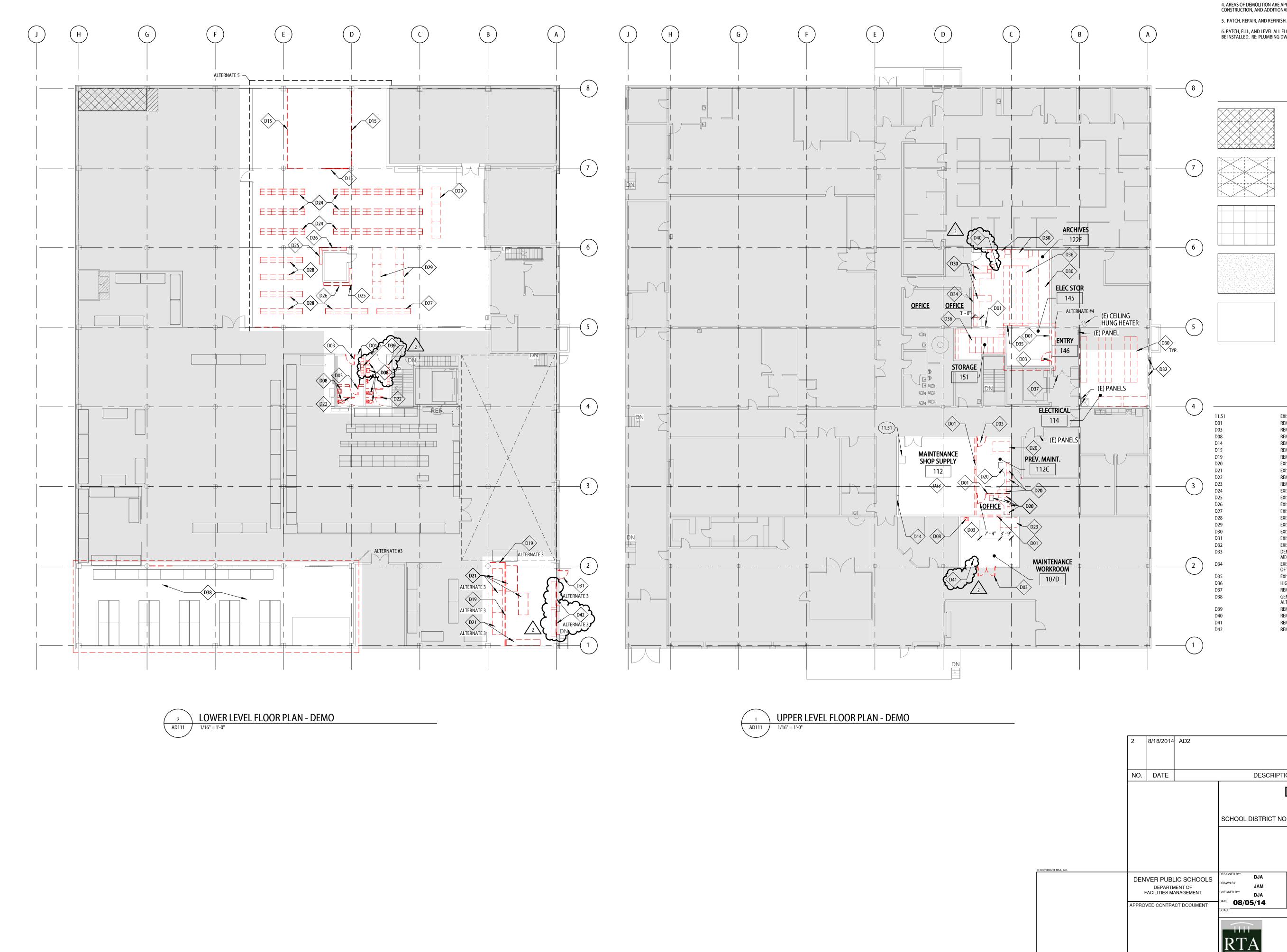
3.1 EXAMINATION

A. Examine substrate surfaces to receive sectional overhead doors and associated work and conditions under which work will be installed. Do not proceed until unsatisfactory conditions have been corrected in a manner acceptable to the Installer. Starting of work within a particular area will be construed as installer's acceptance of surface conditions.

3.2 INSTALLATION

- A. General: Install door, track, and operating equipment complete with necessary hardware, jamb and head mold strips, anchors, inserts, hangers, and equipment supports according to Shop Drawings, manufacturer's written instructions, and as specified. Fasten vertical track assembly to framing at not less than 24 inches o.c. Hang horizontal track from structural overhead framing with angle or channel hangers welded and bolt fastened in place. Provide sway bracing, diagonal bracing, and reinforcement as required for rigid installation of track and dooroperating equipment.
- B. Lubricate bearings and sliding parts; adjust doors to operate easily, free from warp, twist, or distortion and fitting weathertight for entire perimeter.

END OF SECTION 083613



DEMOLITION GENERAL NOTES

1. ELEMENTS TO BE REMOVED/RELOCATED ARE SHOWN DASHED.

2. FLOORING TO BE REMOVED SHALL BE REMOVED TO THE EXISTING SLAB U.N.O. PATCH, REPAIR, AND LEVEL TO RECIEVE NEW FINISHES.

3. REMOVAL OF WALLS NOTED SHOULD INCLUDE THE REMOVAL OF ALL ITEMS ASSOCIATED WITH THE WALLS, U.N.O. 4. AREAS OF DEMOLITION ARE APPROXIMATE: GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH EXISTING CONDITIONS, NEW CONSTRUCTION, AND ADDITIONAL SCOPE OF WORK INCLUDED IN MECHANICAL, PLUMBING, AND ELECTRICAL DOCUMENTS. 5. PATCH, REPAIR, AND REFINISH ALL WALLS EXISTING WALLS TO REMAIN WHERE DEMOLITION SCOPE HAS OCCURIED.

6. PATCH, FILL, AND LEVEL ALL FLOOR PENETRATIONS WHERE ELEMENTS ARE TO BE REMOVED AND NEW PLUMBING FIXTURES ARE TO BE INSTALLED. RE: PLUMBING DWGS

DEMOLITION CEILING LEGEND

CEILING TILE AND GRID TO BE REMOVED

CEILING TILE TO BE REMOVED, GRID TO REMAIN

EXISTING CEILING TILE AND GRID TO REMAIN

EXISTING GYP. BD. CEILING TO REMAIN.

EXPOSED STRUCTURE

KEYNOTE LEGEND

EXISTING IT CABINET & ADJACENT EQUIPMENT; TO REMAIN REMOVE WALL REMOVE DOOR AND FRAME REMOVE PLUMBING FIXTURES, CAP IN WALL REMOVE PLASTIC LAMINATE SILL AND DOOR REMOVE FENCING AND GATE **REMOVE & RELOCATE EXISTING FENCING** EXISTING CASEWORK RELOCATE, RE SHEET A110A EXISTING SHELVING TO BE RELOCATED, RE: SHEET A110A FOR NEW LOCATION REMOVE TOILET PARTITIONS REMOVE EXISTING HOOD, CAP ROOF PENETRATION EXISTING 1x4 SHELVING, 72 OF 72 TO BE RELOCATED, RE: SHEET A110B FOR NEW LOCATION EXISTING 1x6 SHELVING, 2 OF 2 TO BE RELOCATED, RE: SHEET A110B FOR NEW LOCATION EXISTING 1x9 SHELVING, 0 OF 2 TO BE RELOCATED, RE: SHEET A110B FOR NEW LOCATION EXISTING 1x12 SHELVING, 2 OF 2 TO BE RELOCATED, RE: SHEET A110B FOR NEW LOCATION EXISTING 1x15 SHELVING, 8 OF 10 TO BE RELOCATED, RE: SHEET A110B FOR NEW LOCATION EXISTING 3x6 TABLE, 8 OF 9 TO BE RELOCATED, RE: SHEET A110B FOR NEW LOCATION EXISTING FURNITURE TO BE RELOCATED BY GENERAL CONTRACTOR WITHIN BUILDING EXISTING DOOR AND FRAME, REMOVE DOOR HARDWARE, RETURN TO OWNER EXISTING BASEBOARD HEATERS, REMOVE & REINSTALL ON EXISTING WALL DEMOLITION WILL INCLUDE OPENINGS @ EXISTING CONCRETE DOUBLE T ROOF & AT EXISTING CMU WALLS FOR MECHANICAL EXISTING WIRE MOLD POWER & DATA, REMOVE & TERMINATE ABOVE NEW CEILING, COORDINATE WITH SCOPE OF WORK EXISTING PLUMBING, TO REMAIN HIGH DENSITY SHELVING TO BE RELOCATE & REINSTALLED BY OWNER **REMOVE EXISTING DOORS & REINSTALL** GENERAL CONTRACTOR TO REMOVE & REINSTALL ALL SHELVING IN BUSINESS ENTERPRISE STORAGE AREA IF ALTERNATE #3 IS ACCEPTED

D

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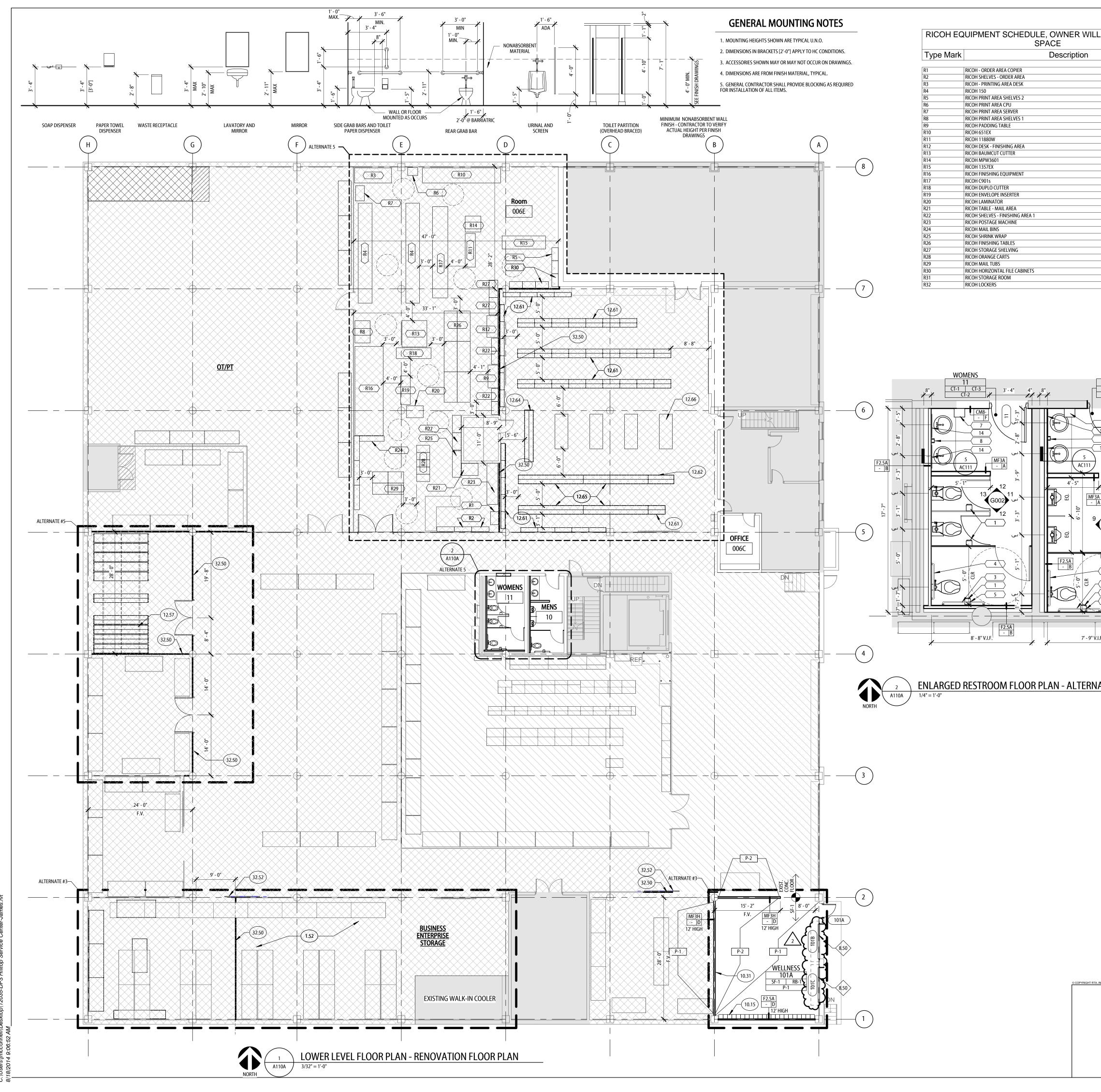
- REMOVE EXISTING LOCKERS REMOVE EXISTING FLOORING INCLUDING HIGH DENSITY RAILS, SUBFLOOR & VCT.
- REMOVE EXISTING LAY IN CEILING REMOVE EXISTING GARAGE DOOR

DESCRIPTION OF REVISION AUTHORITY | MADE | APPR'D DENVER PUBLIC SCHOOLS DEPARTMENT OF FACILITIES MANAGEMENT SCHOOL DISTRICT NO. 1 SCHOOL NO. 891 SITE NO. 118 DENVER, CO HILLTOP SERVICE CENTER ARCHIVES RENOVATION 2800 WEST 7TH AVENUE DENVER, CO 80204 **UPPER & LOWER LEVEL DEMO PLANS - PHASE 2** RTA PROJECT NUMBER: **12035.02** DENVER PUBLIC SCHOOLS PROJECT NUMBER: 2240 DRAWING NO. SHEET: 19 SOUTH TEJON ST., SUITE 300 COLORADO SPRINGS, CO. 80903

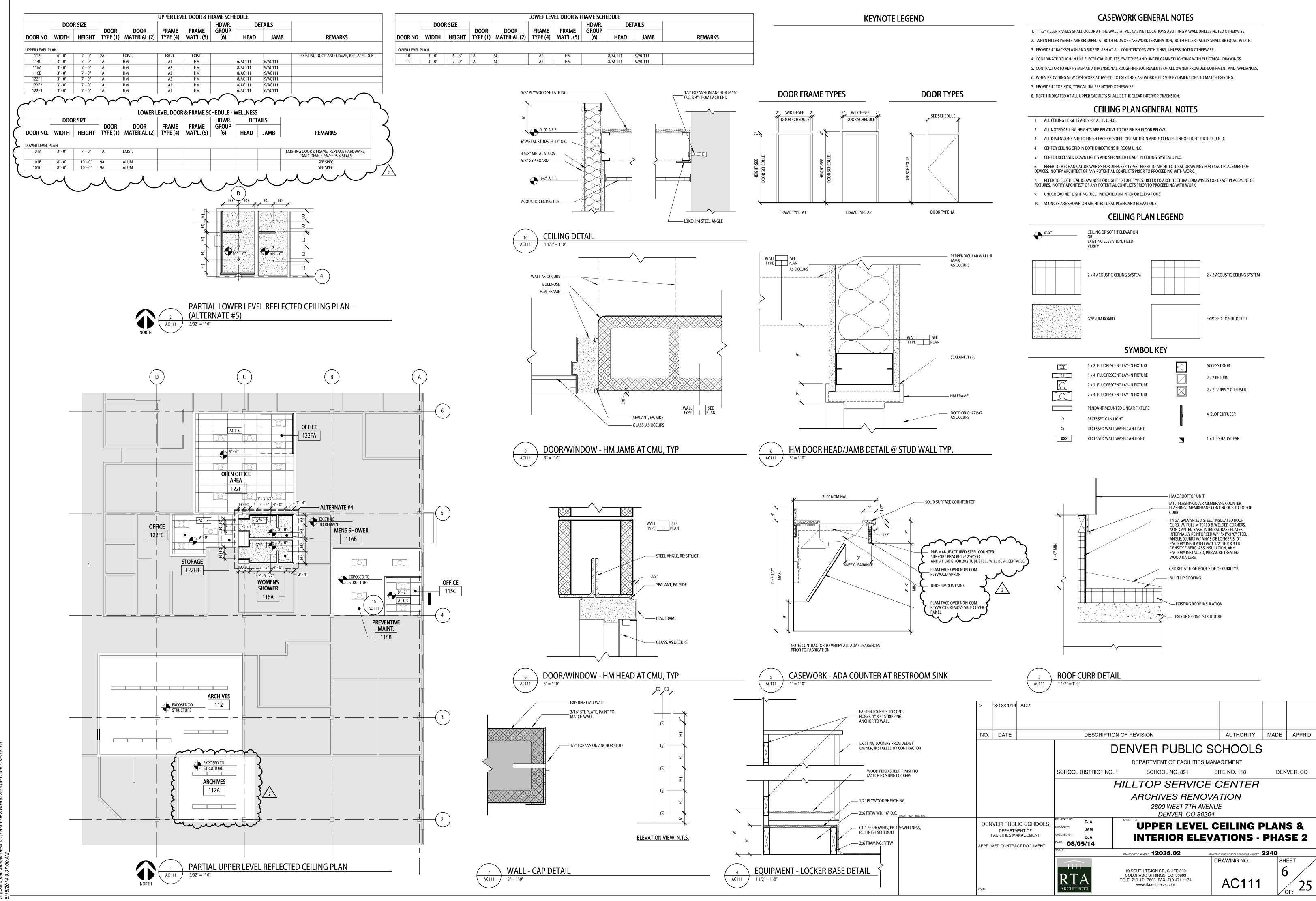
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AD111

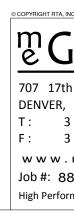


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G002 ¹¹	SPORTS FLO				26" 501141	PIECES			
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	-		TOIL	ET ACCESSO	RIES SCHEDU	LE INSTALLED	FURNISHE		
	-	# ITEM DESCRIPTION	MANUFACTURER	MODEL #	FINISH	BY	BY	COMMEN	TS
	4		GEORGIA-PACIFIC, COMPACT BOBRICK		TAINLESS FINISH	CONTRACTOR	CONTRACTOR		
	·	 4 36" HORIZONTAL GRAB BAR 5 18" VERTICAL GRAB BAR 	BOBRICK BOBRICK	B-6806	STAINLESS STEEL STAINLESS STEEL TRANSLUCENT	CONTRACTOR CONTRACTOR CONTRACTOR	CONTRACTOR CONTRACTOR	R	
/I.F.	-	8 SOAP DISPENSER	ENMOTION TECHNICAL CONCEPTS	750139 B-5181	SMOKE BLACK/GREY	CONTRACTOR	CONTRACTOR	}	
	-	14 24"x36" MIRROR			STAINLESS STEEL BORDER	CONTRACTOR		}	
IATE #5	-	BAR 18 TRASH RECEPTACLE	DODINCK	5 0001		OWNER	OWNER		
			S	SCOPE OF	WORK				
					NOT IN SCOPE OF	WORK			
						WORK			
				AI TFRNATF 1 -	LIGHTING REPLAC	FMENT FCOMBS	AND DOCK ARFA		
				EXCEPT FCOME	LIGHTING REPLAC				
r				RESKOOMS AN	D OFFICE SPACE				
	2 8/18/	/2014 AD2							
·	NO. DA	.TE	DESCRIPTIC	N OF REVIS	SION		А	UTHORITY	MADE APPR'D
	I		[DENV	ER Pl	JBLIC	SC⊦	IOOLS	i
		SCHOO	OL DISTRICT NO.		ARTMENT O SCHOOL N			MENT NO. 118	DENVER, CO
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				AR	CHIVE	S REN		ON	
A, INC.		PUBLIC SCHOOLS	DJA	SHEET TITLE	DEN	/ER, CO 8	80204		
	DEF	PARTMENT OF IES MANAGEMENT	DJA		LUWE	n LEV	CL PL	.an - P	HASE 2
	APPROVED CC	DNTRACT DOCUMENT	8/05/14	RTA PROJECT NU	MBER: 12035.	02			
					I TEJON ST., SU O SPRINGS, CC			/ING NO.	SHEET:
	DATE:	R ARCH	TA ITECTS	TELE. 719-47	v.rtaarchitects.cor	9-471-1174	Α	110A	OF: 25
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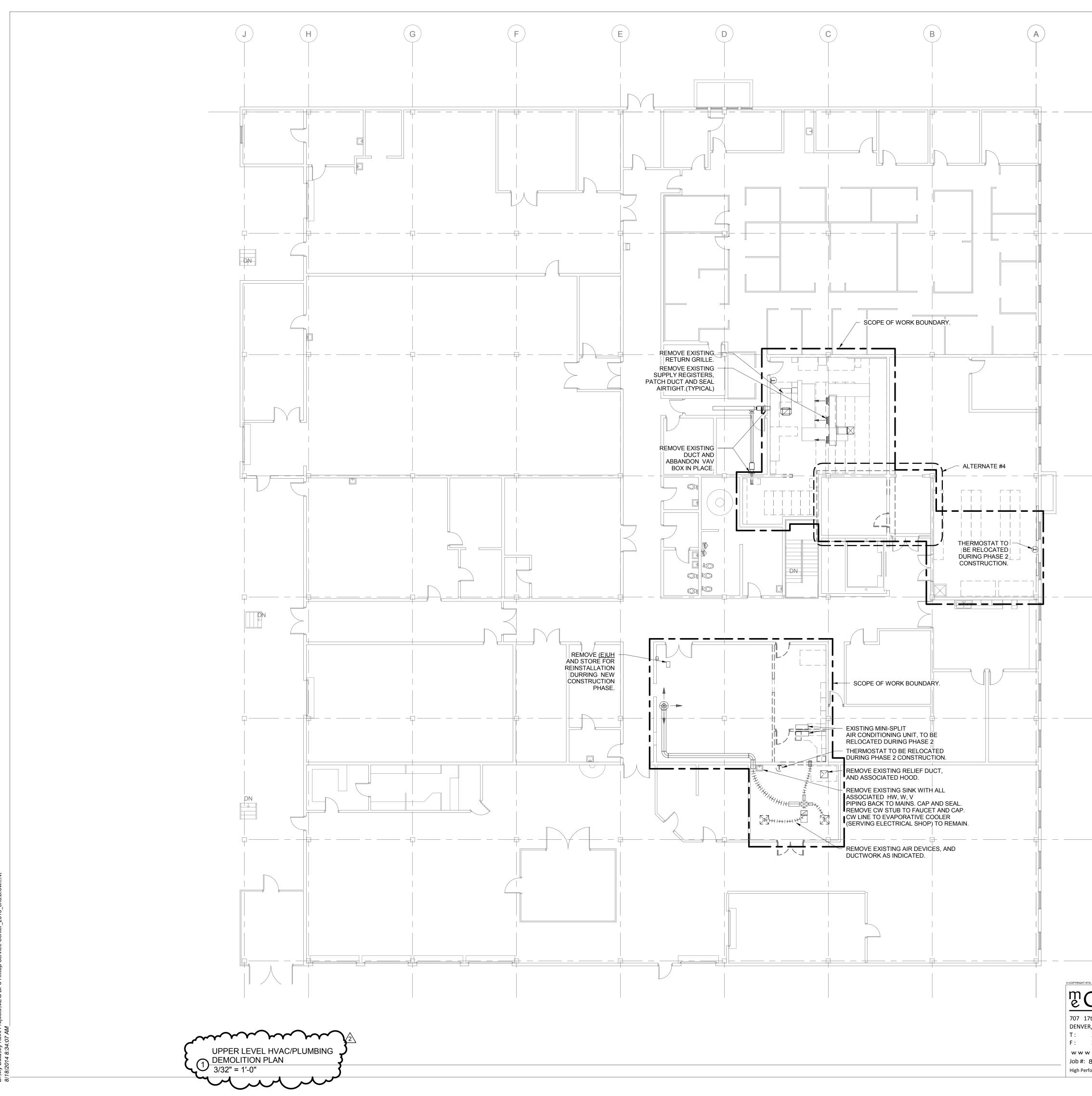


My Data\My Revit Projects\MEG-DPS Hilltop Service Center_2013_cris.brown.rvt

MECHAN	IICAL SYMBOLS	ABB	REVIATIONS
		A/C AFF AHU	AIR CONDITIONING ABOVE FINISHED FLOOR AIR HANDLING UNIT
	DUCT DIMENSIONS SHOWN ON DRAWINGS DIMENSIONS.	BOD BOP	BOTTOM OF DUCT BOTTOM OF PIPE
	LINEAR SLOT DIFFUSER	BOS BTU	BOTTOM OF STRUCTURE BRITISH THERMAL UNIT
\] *+++++*	INSULATED FLEXIBLE DUCT (MAXIMUM 6'-0" LONG)	CH CFM	CHILLER CUBIC FEET PER MINUTE
<u>—</u> ⊈⊄	BRANCH DUCT WITH 45° TAP AND MANUAL VOLUME DAMPER		COMPUTER ROOM AIR CONDITION COMPUTER ROOM CONDENSING COOLING TOWER CONDENSING UNIT
—∰	BRANCH DUCT WITH CONICAL FITTING AND MANUAL VOLUME DAMPER	CUH DB DDC	CABINET UNIT HEATER DRY BULB DIRECT DIGITAL CONTROL
	ELBOW WITH TURNING VANES	DN (E) EAT	DOWN DX DIRECT EXPANSION EXISTING TO REMAIN ENTERING AIR TEMPERATURE
	SUPPLY OR OUTSIDE AIR DUCT UP	EDB EF	ENTERING DRY BULB EXHAUST FAN
	SUPPLY OR OUTSIDE AIR DUCT DOWN	ERV EWB EWT	ENERGY RECOVERY VENTILATOR ENTERING WET BULB ENTERING WATER TEMPERATURE
	RETURN OR TRANSFER AIR DUCT UP	FCU	FAN COIL UNIT
	RETURN OR TRANSFER AIR DUCT DOWN	FD FSD	FIRE DAMPER FIRE/SMOKE DAMPER
		GPM	GALLONS PER MINUTE
	EXHAUST AIR DUCT UP	HD HP	HEAD HORSEPOWER, HEAT PUMP
SD-1	EXHAUST AIR DUCT DOWN	HOA HRV HSTAT	HAND OFF AUTOMATIC HEAT RECOVERY VENTILATOR HUMIDISTAT
$\sum \frac{\frac{3D-1}{10''}}{\frac{10''}{250}}$	TYPE, NECK SIZE, CFM AT SUPPLY DIFFUSER OR REGISTER	HTG	HEATING
RG-1 10x10 250	TYPE, THROAT SIZE, CFM AT RETURN GRILLE OR REGISTER	IN WC LAT LRA	INCHES OF WATER COLUMN LEAVING AIR TEMPERATURE LOCKED ROTOR AMPS
ER-1 10x10	TYPE, SIZE AT EXHAUST GRILLE OR REGISTER	LWT MAU MBH	LEAVING WATER TEMPERATURE MAKE UP AIR UNIT 1000 BTU PER HOUR
	MANUAL VOLUME DAMPER	MCA MFR	MINIMUM CIRCUIT AMPACITY MANUFACTURER 1,000,000 BTU PER HOUR
T	SQUARE TO ROUND TRANSITION	(N) N/A	NEW NOT APPLICABLE
(Ť)	THERMOSTAT	NC NO	NOISE CRITERIA, NORMALLY CLO NORMALLY OPEN
	HUMIDISTAT	OA	OUTSIDE AIR
	CARBON DIOXIDE SENSOR	PH,Ø PRV	PHASE PRESSURE REDUCING VALVE
(со) ТS	TEMPERATURE SENSOR	(R)	RELOCATED EXISTING
— – — (FI		RA RH RLA	RETURN AIR RELATIVE HUMIDITY RUNNING LOAD AMPS
— - — ④ Ft		RPM RTU	REVOLUTIONS PER MINUTE ROOF TOP UNIT
S	D SMOKE DAMPER	SA	SUPPLY AIR
м	MOTORIZED DAMPER	SD SF SP	SMOKE DAMPER SQUARE FEET, SUPPLY FAN STATIC PRESSURE
0 (7) (1)	ROUND/OVAL DUCT RISER	SS ST STM	STAINLESS STEEL SOUND TRAP, STEAM TRAP STEAM
12x6	RECTANGULAR DUCT (PLAN DIMENSION SHOWN FIRST)	ТА	TRANSFER AIR OPENING
12"ø 30x24 ↔	ROUND DUCT	TD TDH TSTAT TYP	TRANSFER DUCT TOTAL DYNAMIC HEAD THERMOSTAT TYPICAL
		UH	UNIT HEATER
∽⊲──		VAC VAV	VACUUM VARIABLE AIR VOLUME
	OPPOSED BLADE DAMPER	W	WITH
///////	PARALLEL BLADE DAMPER	W/O WB WC WPD	WITHOUT WET BULB WATER COLUMN WATER PRESSURE DROP
MISCELL	ANEOUS		
\Diamond		ΜΟι	JNTING HEIGHTS
	SECTION CUT, UPPER NUMBER INDICATED DRAWING NUMBER LOWER NUMBER INDICATES SHEET NUMBER		AOSTATS (USER ADJ.) 48" (ROLS (CENTERLINE) 48" (
$\mathbf{\bullet}$	CONNECTION POINT OF NEW WORK TO EXISTING	CONT	ROLS (CENTERLINE) 48" (
	DETAIL REFERENCE: UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER		
(#)	RISER DESIGNATION		
$\langle x \rangle$	NOTE REFERENCE SYMBOL		
<u> </u>	EXISTING LINEWORK		
<u>ب</u> – ج	DEMOLITION LINEWORK		
بز	NEW LINEWORK	1	

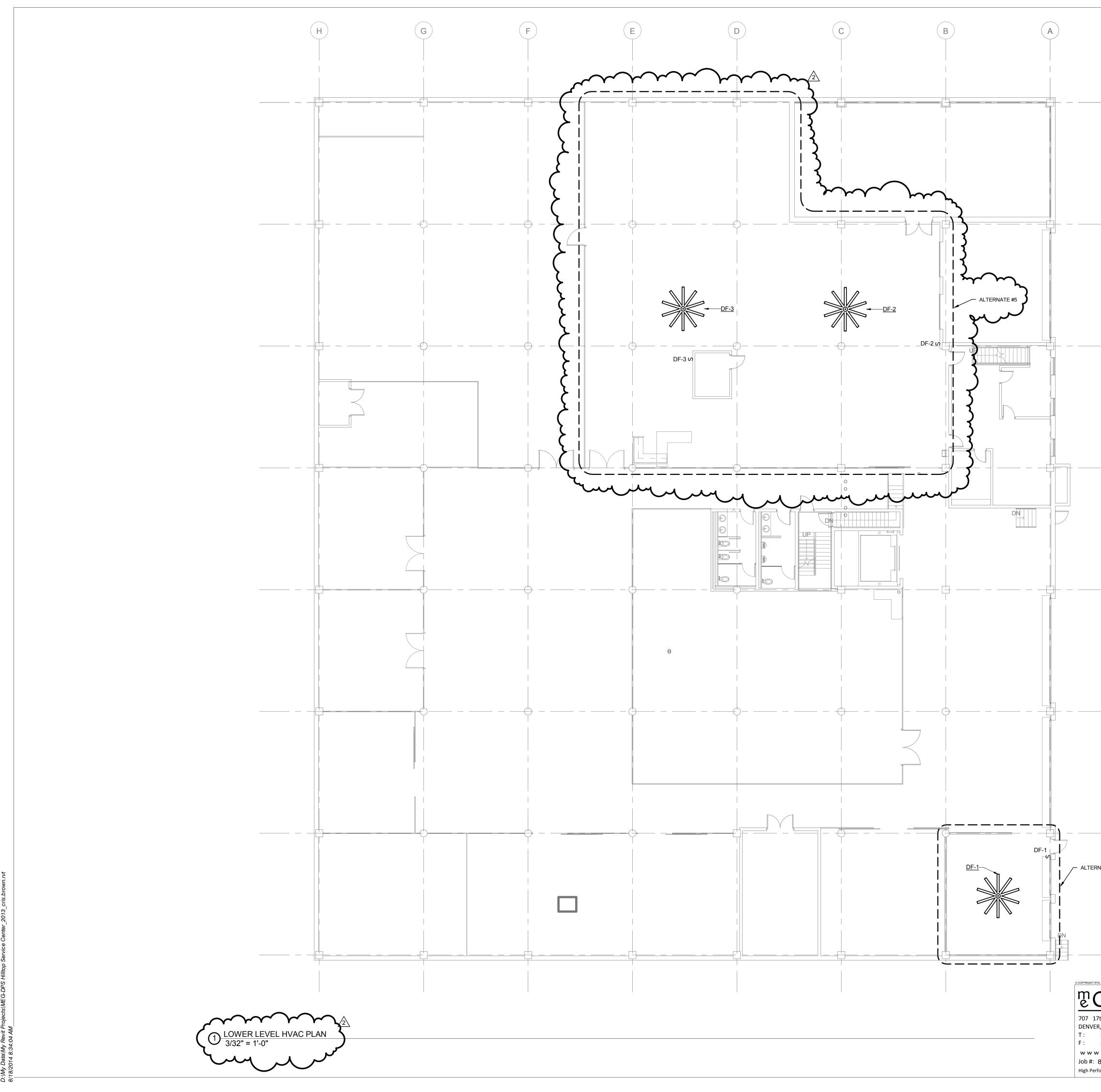


	MECHANICAL GE	NERAL NOTES			
	SHOULD BE VERIFIED FROM DIMEN PRESENTED IS AS EXACT AS COULI EXACT LOCATION, MEASUREMENTS	XTENT, DIAGRAMMATIC IN NATURE. D SIONS ON ARCH. PLANS. THE INFORM D BE SECURED. THE CONTRACTOR SH I LEVELS, ETC. AT THE SITE AND SHAL TO THE ACTUAL CONDITIONS AT THE	ATION ALL OBTAIN -		
		JOB SITE PRIOR TO SUBMITTING A BID RMING THEMSELVES OF ALL DETAILS.			
IG UNIT		HALL APPLICABLE FEDERAL, STATE AN CES, AND ALL AUTHORITIES HAVING J			
IT	REQUIREMENTS, THE OWNER'S DE APPLICABLE INDUSTRY STANDARD	I SHALL BE IN ACCORDANCE WITH ALL SIGN CRITERIA, UTILITY COMPANY REC S OF GOOD PRACTICE AND SAFETY, AI OMMENDATIONS FOR EQUIPMENT ANI	QUIREMENTS, ND THE		
	INDICATING THE EXACT LOCATION	AND SUBMIT TO THE OWNER RECORI OF ALL EQUIPMENT INCLUDING THE EC ER, MODEL NUMBERS, AND PERFORM	QUIPMENT'S "AS		
	6. SUPPORTS - EQUIPMENT, PIPIN NOT BE SUPPORTED FROM OTHER	G, DUCTWORK OR ANY OTHER ACCES PIPING, DUCTWORK, METAL ROOF DEC ITEMS SHALL ONLY BE SUPPORTED FI	SORY SHALL CK, LATERAL		
		OF ALL DUCTWORK, AIR TERMINAL UI CTURAL, ELECTRICAL, AND OTHER ME			
		RE NOT DETAILED OR DIMENSIONED, IN HEAD EQUIPMENT TO PROVIDE THE M			
		EMPERATURE CONTROL CONDUIT TO CONNECTORS.	VIBRATING		
	10. COORDINATE ALL ROOF AND CA	ASE PENETRATIONS WITH STRUCTUR	AL DRAWINGS		
	EQUIPMENT WHICH ARE PLANNED	AGE OF ALL PLUMBING FIXTURES AND TO BE REMOVED BY CONTRACTOR. EC EMOVED FROM SITE AND PROPERLY D	QUIPMENT NOT		
	USED REFRIGERANT IN A PROPERL TO MEET E.P.A. STANDARDS. RECO	CHANICAL EQUIPMENT, CONTRACTOR Y LABELED D.O.T. APPROVED REFILLA OVERED REFRIGERANT MUST BE CHEM DISPOSED OF PER E.P.A. REQUIREME R.I. STANDARD 700.	BLE CYLINDER IICALLY		
		DERGROUND UTILITIES IS SHOWN IN A NTRACTOR SHALL DETERMINE THE EX COMMENCING WORK.			
	14. ALL TESTS SHALL BE COMPLET INSULATION IS APPLIED.	ED BEFORE ANY MECHANICAL EQUIPM	IENT OR PIPING		
	15. ALL SA DUCT BRANCH TAKE-OF NECK UNLESS OTHERWISE NOTED.	FS TO DIFFUSER TO BE SAME SIZE AS	DIFFUSER		
		AS SHOWN ON THE DRAWINGS, ARE IN . BE INCREASED TO COMPENSATE FOI			
		ATE LOCATION OF ALL DIFFUSERS ANI CHITECTURAL REFLECTED CEILING P			
		IENT CONTRACTOR SHALL VERIFY TH NCE. CONTRACTOR SHALL PROVIDE / E FOR ALL EQUIPMENT.			
	20. AT THE COMPLETION OF WORK WITHIN THE SCOPE OF WORK AREA				
)/ 60"					
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)/ 60"	1 8/18/2014 AD2				
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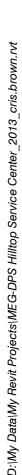


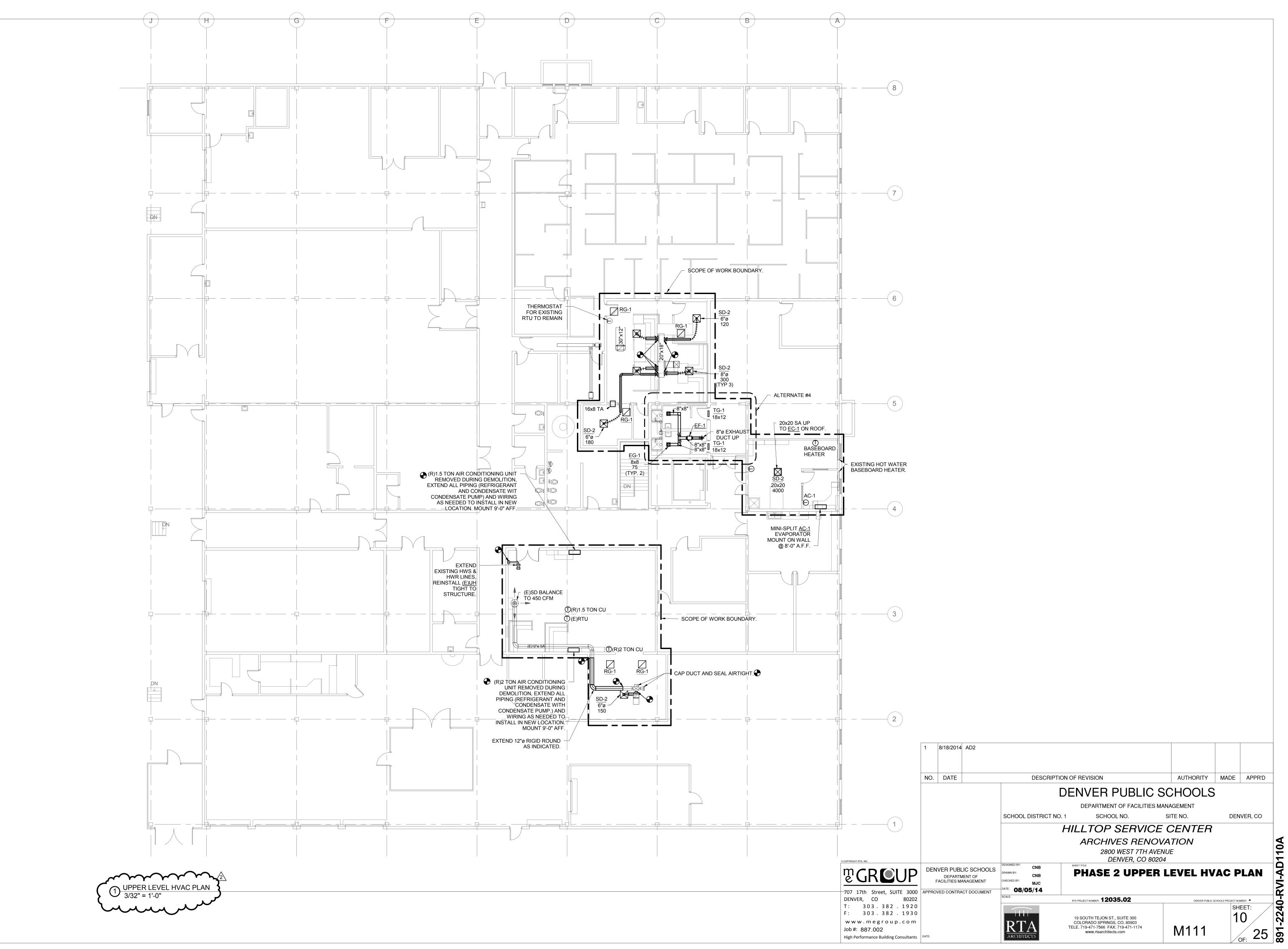
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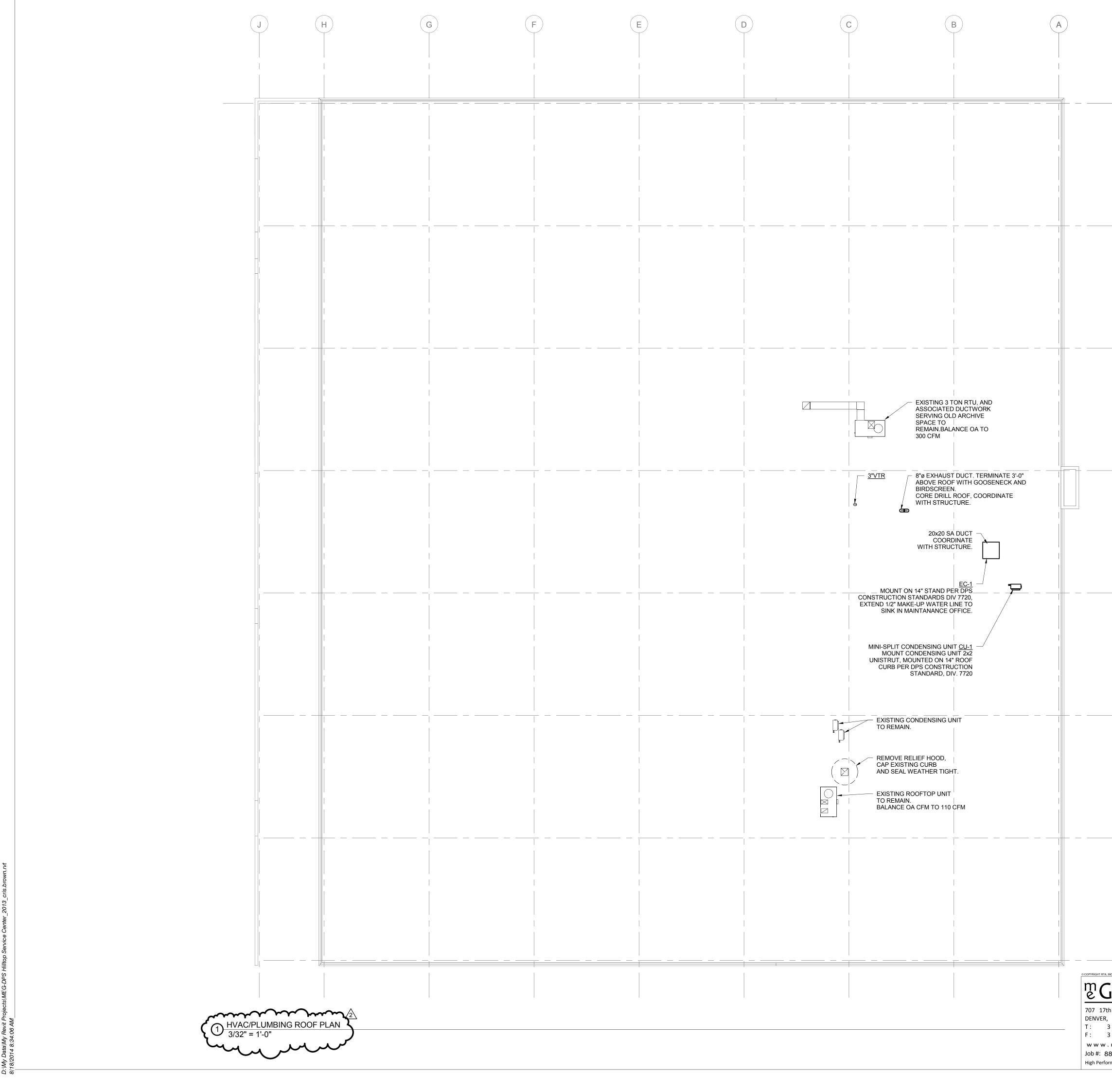
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h Street, SUITE 3000 CO 80202 303.382.1920 303.382.1930	APPROVED CONTRACT DOCUMEN		RTA PROJECT NUMBER: 12035.02 19 SOUTH TEJON ST., SUITE 300	PLAN DENVER PUBLIC SCH	OOLS PROJECT NUMBER: - SHEET: 11
. m e g r o u p . c o m 87.002 rmance Building Consultants	DATE:	RTA	COLORADO SPRINGS, CO. 80903 TELE. 719-471-7566 FAX: 719-471-1174 www.rtaarchitects.com	M112	

GRILLE, REGISTER, & DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	ТҮРЕ	FACE SIZE	NECK	ľ
SD-1	PRICE	520	45 DEG. FIXED LOUVER	NECK + 3/4"	AS NOTED	
SD-2	PRICE	SCD	SQUARE 3-CONE LOUVERED FACE	NECK + 3/4"	AS NOTED	
RG-1	PRICE	PDDR	PERPORATED FACE NON-DUCTED RETURN	24x24	22x22	
EG-1	PRICE	530	3/4" SPACING 45 DEG. FIXED LOUVER		SEE PLANS	A
TG-1	PRICE	ATGH	1/2" SPACING 45 DEG. FIXED LOUVER	NECK + 3/4"	18x12	4
NOTES:	·					
1.						

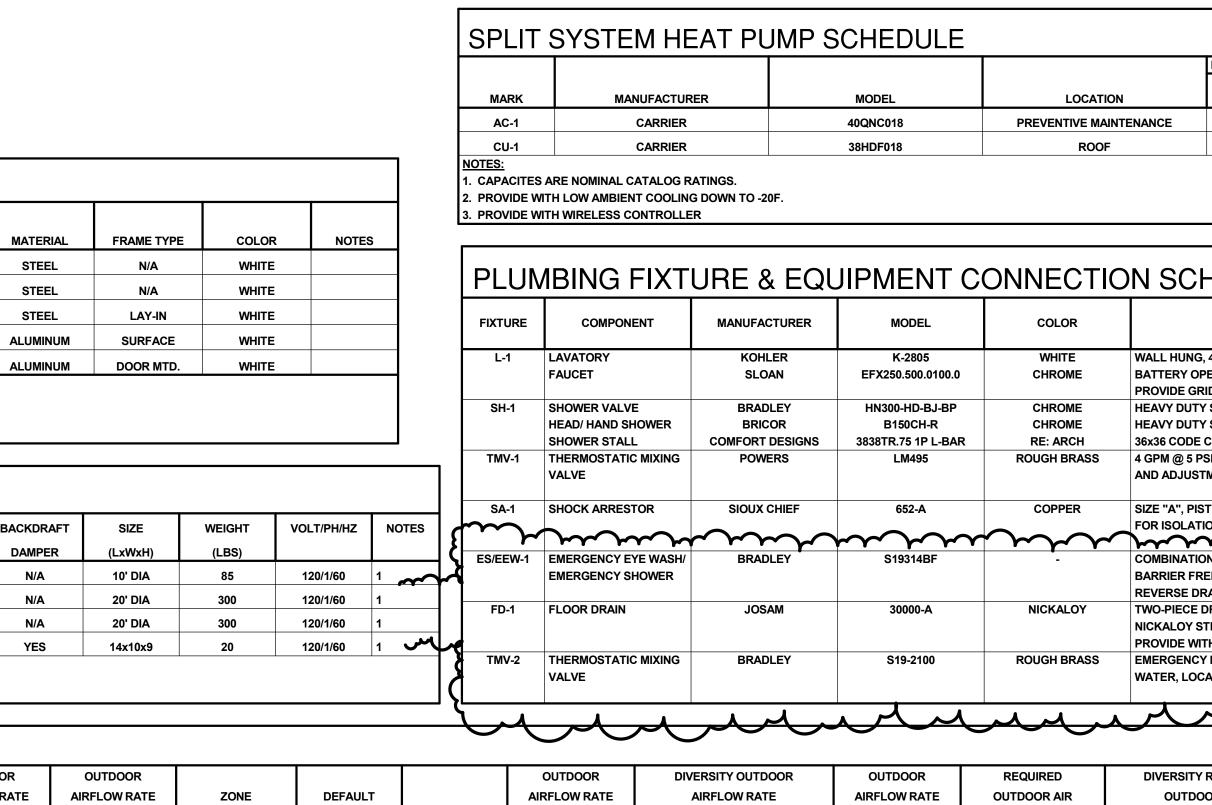
		CHEDULE		1			1			
	MARK	MANUFACTURER	MODEL	SERVES	TYPE	CFM	ESP	MOTOR	DRIVE	BAC
							(IN WC)			D
	• DF-1	BAF	ESSENCE	WELLNESS	DESTRATIFICATION	N/A	N/A	10A	DIRECT	
<u>}</u>	DF-2	BAF	ESSENCE	RICOH	DESTRATIFICATION	N/A	N/A	10A	DIRECT	
<u>{</u> [DF-3	BAF	ESSENCE	RICOH	DESTRATIFICATION	N/A	N/A	10A	DIRECT	
U	EF-1	GREENHECK	CSP-A190	SHOWERS	INLINE	150	0.25	180W	DIRECT	

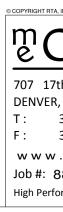
ALL CAPACITIES ARE SIZED AT 5280 FT.

							OUTDOOR	OUTDOOR				OUTDOOR	DIVERSITY OUTDOOR	OUTDOOR	REQUIRED	DIVERSITY REQUIRED			ZONE	ZONE		Vot	
							AIRFLOW RATE	AIRFLOW RATE	ZONE	DEFAULT		AIRFLOW RATE	AIRFLOW RATE	AIRFLOW RATE	OUTDOOR AIR	OUTDOOR AIR	ZONE AIR	ZONE	MINIMUM	PRIMARY	SYSTEM	SYSTEM/BREATHING	ACTUAL C
AIR					AREA	AREA	PER PERSON	PER UNIT	POPULATION	ZONE	ZONE	(PEOPLE	(PEOPLE	(AREA	REQUIRED AT	REQUIRED AT	DISTRIBUTION	CORRECTED	PRIMARY	OUTDOOR	VENTILATION	ZONE OUTDOOR	DELIVER
UNIT	SPACE	ROOM	SYSTEM	ROOM TYPE	BREAKDOWN	(AZ)	(RP)	AREA (RA)	PEOPLE/1000	POPULATION	POPULATION	COMPONENT)	COMPONENT)	COMPONENT)	BREATHING ZONE	BREATHING ZONE	EFFECTIVENESS	AIRFLOW RATE	AIRFLOW	FRACTION	EFFICIENCY	AIR REQUIREMENT	TO SPAC
TAG		NAME	ТҮРЕ	PER TABLE 6-1	%	(SQ.FT.)	CFM / PERSON	CFM / SQ.FT.	SQ.FT.		(PZ)	PZ x RP	PZ x RP	AZ x RA	CFM (VBZ)	CFM (VBZ)	(EZ) TABLE 6-2	CFM (VOZ)	CFM (VPZ)	(ZP)	(EV) TABLE 6-3	CFM	CFM
E) AHU-1	112	ARCHIVES	Single-Zone System	WAREHOUSES	100%	1,416	0	0.06	0	0.0	2	0	0	85	85	85	0.8	106	1,800	0.06	1.00	106	110
AHU-2	122F	OPEN OFFICE	Single-Zone System	OFFICE SPACE	75%	645	15	0.06	5	3.2	4	60	23	39	99	61	0.8	123	900	0.14	1.00	123	225
	122FA	OFFICE	Single-Zone System	OFFICE SPACE	10%	95	15	0.06	5	0.5	1	15	6	6	21	11	0.8	26	120	0.22	0.94	26	30
	122FC	OFFICE	Single-Zone System	OFFICE SPACE	15%	135	15	0.06	5	0.7	1	15	6	8	23	14	0.8	29	180	0.16	0.99	29	4′

ECTRICAL DATA
FLA VOLTS/PH/HZ NOTES
8.7 115/1/60 1, 2, 3
′ <u>L/</u> 8.7

MOUNT UNIT ON ROOF FOLLOWING ALL MANUFACTURERS RECOMMENDATIONS. COLOR BY OWNER

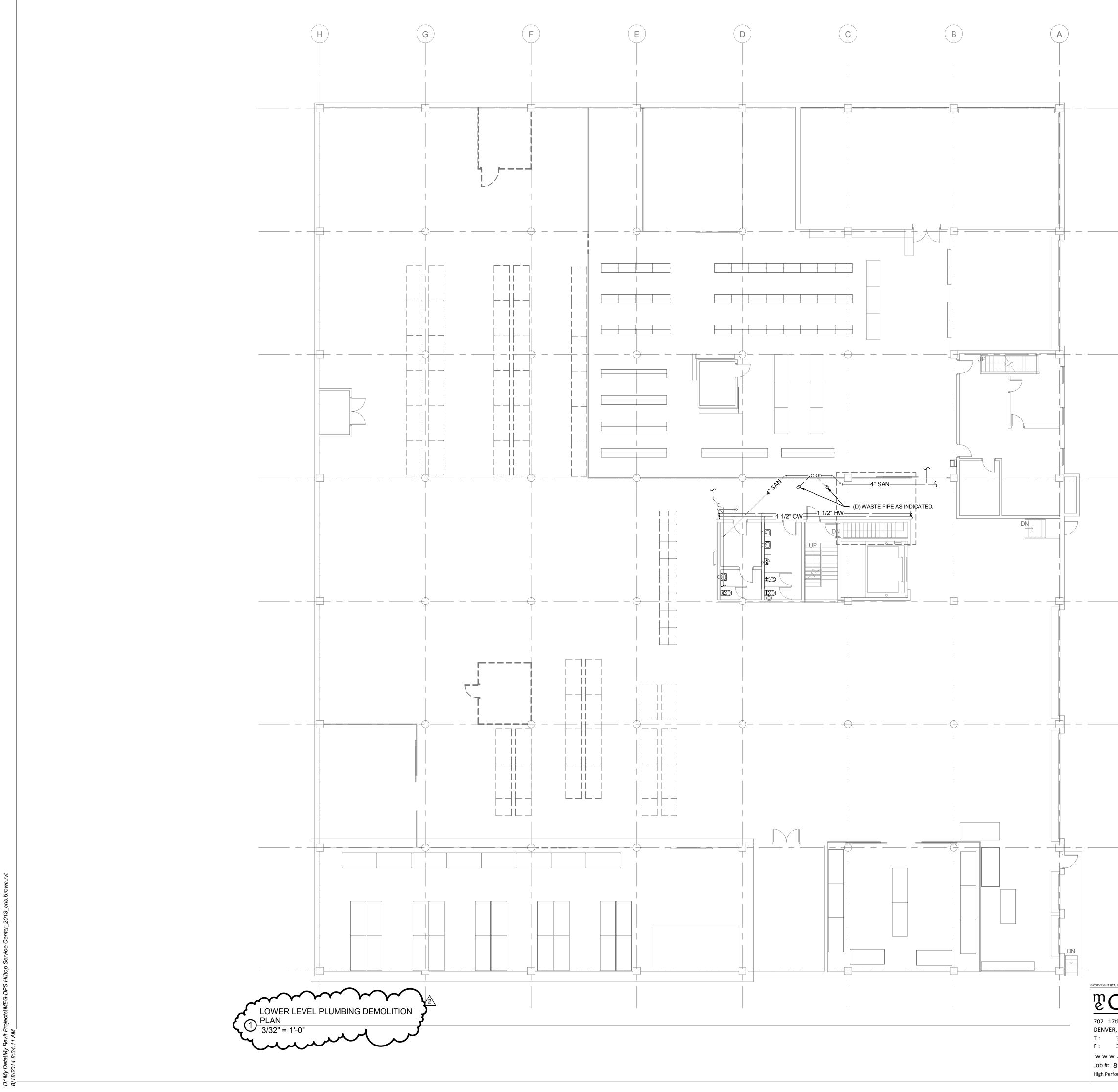




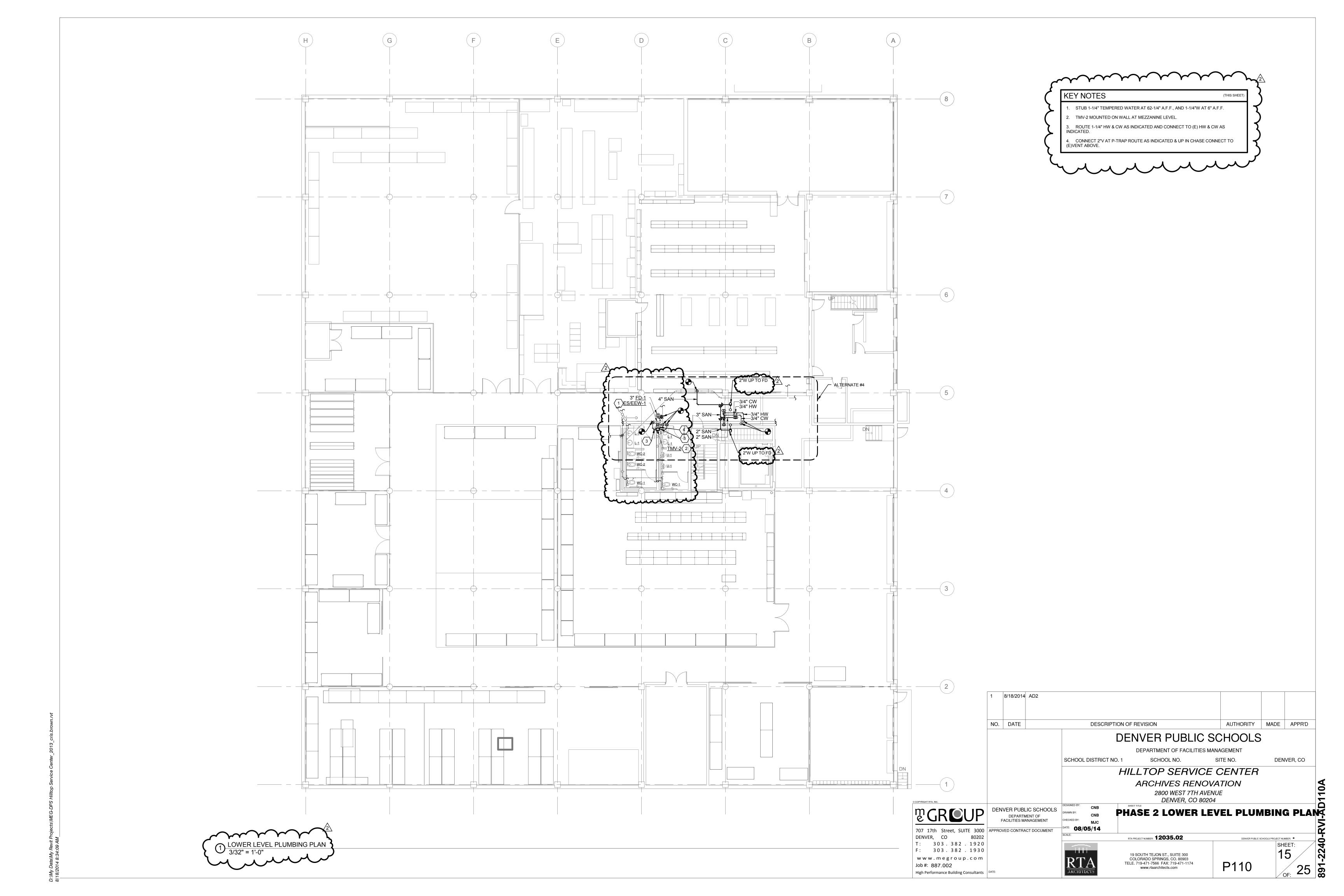
FAN INFO COOLING							CAL DA	ТА	DIMENSIONS		
			CAPACITY		LBS REFRIG				LXDXH	WEIGHT	
CFM	E.S.P.	REFRIG.	(MBH)	EER	/ TON	MCA	MOPD	VOLT/PH/HZ	(IN)	(LBS)	NOTES
645	0	410A	16.6	11.8	3.60	0.48	15	208/1/60	43x8x11	35	1,2,3
		410A	18	11.8		12.1	20	208/1/60	37x18x26	175	1,2

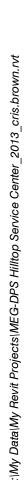
4" CENTERS, PROVIDE WITH CARRIER, COORDINATE WITH WALL THICKNESS. 0.5 YES 2" 1-1/2" 1/2" 1/2" ERATED INFRARED FAUCET, WITM-1 AND SA-1. D DRAIN, 17 GAUGE P-TRAP, ANGLE SUPPLIES WILK. STOPS, INSULATION KIT. 0.5 YES 2" 1-1/2" 1/2" 1/2" SHOWER VALVE W/ BACKPLATE AND BALL JOINT. LESS SEAT, CURTAIN, GRAB BAR. 1.5 YES 2" 1-1/2" 1/2" 1/2" SHOWER VALVE W/ BACKPLATE AND BALL JOINT. LESS SEAT, CURTAIN, GRAB BAR. 1.5 YES 2" 1-1/2" 1/2" 1/2" SHOWER VALVE W/ BACKPLATE AND BALL JOINT. LESS SEAT, CURTAIN, GRAB BAR. 1.5 YES 2" 1-1/2" 1/2" 1/2" SHOWER VALVE W/ BACKPLATE AND BALL JOINT. LESS SEAT, CURTAIN, GRAB BAR. 1.5 YES 2" 1-1/2" 1/2" 1/2" SHOWER HEAD, DIVERTER VALVE, 24" SLIDE BAR, HAND SHOWER 0.5 - - - - - - - - PER - - - - PLAN - - - - PLAN - - - - - - - 1.1/4" - 1.1/4" - 1.1/4	DESCRIPTION	FLOW RATE (GPM/GPF)	ACCESSIBLE	WASTE	VENT	cw	нพ
SHOWER VALVE W/ BACKPLATE AND BALL JOINT. LESS SEAT, CURTAIN, GRAB BAR. 1.5 YES 2" 1-1/2" 1/2" 1/2" SHOWER HEAD, DIVERTER VALVE, 24" SLIDE BAR, HAND SHOWER COMPLIANT SOLID SURFACE ONE PIECE WITH INTEGRAL TRENCH DRAIN 1.5 YES 2" 1-1/2" 1/2" 1/2" COMPLIANT SOLID SURFACE ONE PIECE WITH INTEGRAL TRENCH DRAIN - 1.1/4" - 1.1/4" - 1.1/4" - - - - - 1.1/4" 1.1/4" 1.1/4" 1.1/4"<	4" CENTERS, PROVIDE WITH CARRIER, COORDINATE WITH WALL THICKNESS. ERATED INFRARED FAUCET, W/TMV-1 AND SA-1. D DRAIN, 17 GAUGE P-TRAP, ANGLE SUPPLIES W/LK, STOPS, INSULATION KIT	· · · · ·	YES	2"	1-1/2"	1/2"	1/2"
ON AND PROVIDE WITH ACCESS. PLAN P	SHOWER VALVE W/ BACKPLATE AND BALL JOINT. LESS SEAT, CURTAIN, GRAB BAR. SHOWER HEAD, DIVERTER VALVE, 24" SLIDE BAR, HAND SHOWER COMPLIANT SOLID SURFACE ONE PIECE WITH INTEGRAL TRENCH DRAIN	1.5	YES	2"	1-1/2"	1/2"	1/2"
ION AND PROVIDE WITH ACCESS. DN SHOWER AND EMERGENCY EYE WASH STATION. EE WITH PULL HANDLE. RAIN TO FACE FORWARD, AWAY FROM WALL. DRAIN WITH DOUBLE FLANGE, CLAMP RING, ROUND ADJUSTABLE TRAINER TH SURE SEAL TRAP SEAL. (MIXER THAT FAILS COLD. 20 GPM @ 15 PSI LOSS MAX. SET TO PROVIDE TEPID 1-1/4" 1-1/4"		-	-	-	-		
REE WITH PULL HANDLE. RAIN TO FACE FORWARD, AWAY FROM WALL. DRAIN WITH DOUBLE FLANGE, CLAMP RING, ROUND ADJUSTABLE TRAINER TH SURE SEAL TRAP SEAL.						└──── ┘	
TRAINER PLAN PLAN If H SURE SEAL TRAP SEAL. - - - 1-1/4" MIXER THAT FAILS COLD. 20 GPM @ 15 PSI LOSS MAX. SET TO PROVIDE TEPID - - - 1-1/4"			-	~~~	~~		Y
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	ON AND PROVIDE WITH ACCESS. N SHOWER AND EMERGENCY EYE WASH STATION. EE WITH PULL HANDLE. ANN TO FACE FORWARD, AWAY FROM WALL. DRAIN WITH DOUBLE FLANGE, CLAMP RING, ROUND ADJUSTABLE TRAINER	· · ·	YES				

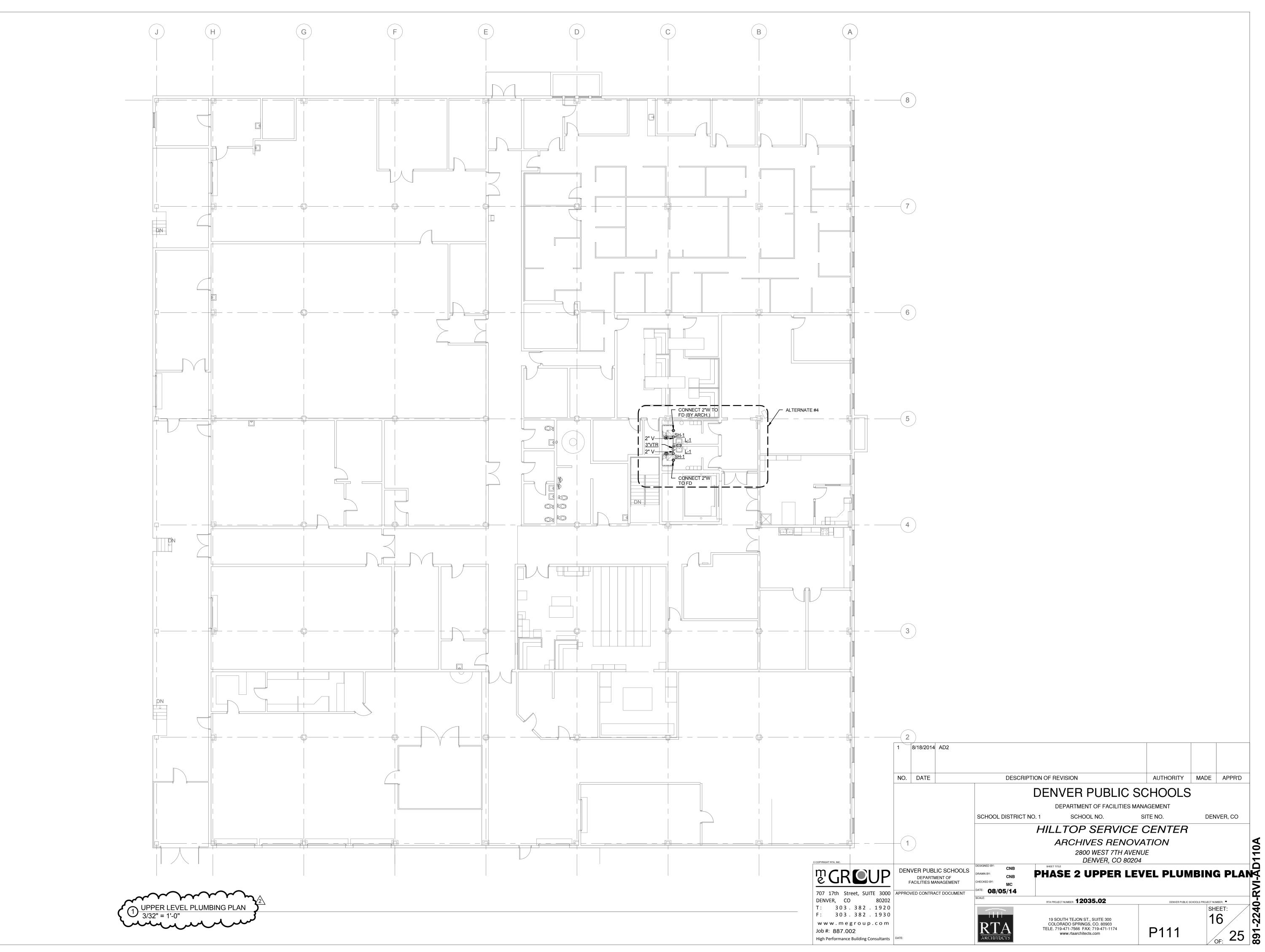
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						HILL	TOP SERVIC	E CENTER			
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A, INC.							2800 WEST 7TH AN DENVER, CO 80				110
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NOTE:	POWER	LIGHTING	ABBREVIATIONS		
THIS IS A MASTER SYMBOLS LIST. ALL SYMBOLS, ABBREVIATIONS, ETC.	PANELBOARD, ELECTRICAL DISTRIBUTION PANEL, OR LOAD CENTER 	NOTE: UPPER CASE LETTER DENOTES LUMINAIRES TYPE. LOWER CASE LETTER ADJACENT TO LUMINAIRE INDICATES SWITCH THAT CONTROLS LUMINAIRES, HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.	A AMPS, AIR (COMPRESSED) AC ABOVE COUNTER		
	PANELBOARD, ELECTRICAL DISTRIBUTION PANEL, OR LOAD CENTER RECESS MOUNTED	2' X 4' RECESSED FLUORESCENT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	AFC ABOVE FINISHED CEILING AFEA AREA FOR EVACUATION ASSISTAN AFF ABOVE FINISHED FLOOR		
ONE LINE AND RISER	$\Phi \qquad 20 \text{ AMP, } 125\text{V, NEMA 5-20R DUPLEX RECEPTACLE}$	A	AFG ABOVE FINISHED GRADE AHU AIR HANDLING UNIT AIC AMPERE INTERRUPTING CURRENT		
PANEL XXX	Π	2' X 4' SURFACE FLUORESCENT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	AL ALUMINUM ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE		
PANEL	20 AMP, 125V, NEMA 5-20R DUPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTER AND/OR ABOVE BACKSPLASH, UNLESS OTHERWISE NOTED	2' X 2' RECESSED FLUORESCENT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	AV FOR AUDIO VISUAL MEDIA CABINET		
	20 AMP, 125V, NEMA 5-20R QUAD RECEPTACLE, MOUNTED 6" ABOVE	A	BFFBELOW FINISHED FLOORBKRBREAKERBOSBOTTOM OF STRUCTURE		
CURRENT TRANSFORMER, RATED AS SPECIFIED OR REQUIRED		2' X 2' SURFACE MOUNTED FLUORESCENT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	BTU BRITISH THERMAL UNIT C CONDUIT		
M MOTOR	20 AMP, 125V, NEMA 5-20R SWITCHED DUPLEX RECEPTACLE	A 1' X 4' RECESSED FLUORESCENT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	CATV CABLE TELEVISION SYSTEM CCTV CLOSED CIRCUIT TELEVISION CFM CUBIC FEET PER MINUTE		
SPD SURGE PROTECTION DEVICE	20 AMP, 125V, NEMA 5-20R DUPLEX FLOOR RECEPTACLE, 3/4" CONDUIT RUN CONCEALED IN FLOOR SLAB	A LUMINAIRE SCHEDULE A 1' X 4' SURFACE MOUNTED FLUORESCENT LUMINAIRE, MOUNTING IS NOTED	CKT CIRCUIT CLG CEILING		
GROUND CONNECTION	20 AMP, 125V, NEMA 5-20R DUPLEX FLOOR RECEPTACLE, 3/4" CONDUIT	A ON LUMINAIRE SCHEDULE	CM COFFEE MAKER CU COPPER, CONDENSING UNIT		
SWITCH, RATING AS SHOWN	20 AMP, 125V, NEMA 5-20R QUAD FLOOR RECEPTACLE, 3/4" CONDUIT RUN CONCEALED IN FLOOR SLAB	1' X 4' WALL MOUNTED FLUORESCENT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	DDC DIRECT DIGITAL CONTROL DN DOWN DPDT DOUBLE POLE, DOUBLE THROW		
400A FRN FUSE, FUSE AMPACITY AND TYPE AS SHOWN	20 AMP, 125V, NEMA 5-20R QUAD FLOOR RECEPTACLE, 3/4" CONDUIT	LINEAR PENDANT FLUORESCENT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	DPST DOUBLE POLE, SINGLE THROW DW DISHWASHER DX DIRECT EXPANSION		
CIRCUIT BREAKER, RATING AS SHOWN		PENDANT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	(E) EXISTING EPO EMERGENCY POWER OFF		
800A3P	JUNCTION BOX, FLOOR MOUNTED JUNCTION BOX, CEILING MOUNTED	PENDANT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	ETR EXISTING TO REMAIN		
UTILITY METER (AS REQUIRED BY UTILITY)	JUNCTION BOX, CEILING MOUNTED SPECIAL RECEPTACLE, FLOOR MOUNTED, CONFIGURATION AS NOTED ON PLAN	FLUORESCENT STRIP TYPE LUMINAIRE, LENGTHS AS NOTED ON LUMINAIRE SCHEDULE	FBO FURNISHED BY OTHERS FF FINISHED FLOOR FHC FIRE HOSE CABINET		
SAFETY SWITCH, NON-FUSED, 240V, U.N.O.	SPECIAL RECEPTACLE, FLOOR MOUNTED, CONFIGURATION AS NOTED ON PLAN SPECIAL RECEPTACLE, WALL MOUNTED, CONFIGURATION AS NOTED ON PLAN	O _Δ SURFACE MOUNTED DOWNLIGHT, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	FLA FULL LOAD AMPS FLR FLOOR FVNR FULL VOLTAGE, NON REVERSING		
	SPECIAL RECEPTACLE, WALL MOUNTED, CONFIGURATION AS NOTED ON PLAN SPECIAL RECEPTACLE, CEILING MOUNTED, CONFIGURATION AS NOTED ON PLAN	 A RECESSED MOUNTED DOWNLIGHT, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE 	GD GARBAGE DISPOSAL GFI GROUND FAULT CIRCUIT INTERRUF		
COMBINATION STARTER/DISCONNECT (SIZE AS INDICATED)	FURNITURE FEED RECEPTACLE, WALL MOUNTED, CONFIGURATION AS	A	(PERSONAL PROTECTION ON DEVIC GFP GROUND FAULT PROTECTED FROM		
T T-XX TRANSFORMER, TYPE AND RATING AS SHOWN	MOTOR: HORSEPOWER AS INDICATED ON PLANS OR DIAGRAMS	WALL MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	GFI RECEPTACLE OR CIRCUIT BREAKEI GFR GROUND FAULT RELAY GND GROUND		
 CONDUIT CONNECTION 	M MOTOR: HORSEPOWER AS INDICATED ON PLANS OR DIAGRAMS	A WALL WASH LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	HOA HAND OFF AUTOMATIC HPS HIGH PRESSURE SODIUM		
CIRCUIT BREAKER WITH GROUND FAULT PROTECTION	PLUGMOLD, REFER TO DRAWING FOR LENGTHS	A RECESSED STEP LIGHT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	HSTAT HUMIDISTAT HTG HEATING HTR HEATER		
FUSE WITH GROUND FAULT PROTECTION	SAFETY SWITCH, NON-FUSED, 240V, U.N.O.	TRACK LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE	IG ISOLATED GROUND		
ATS-XX	FUSED DISCONNECT		KCMIL 1000 CIRCULAR MILS KV KILOVOLT		
AUTOMATIC TRANSFER SWITCH	COMBINATION STARTER/DISCONNECT (SIZE AS INDICATED)	KA A CEILING MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS REQUIRED	KVA KILOVOLT AMPS KVAR KILOVOLT AMPS REACTIVE KW KILOWATT		
GROUND CONNECTION WITH TEST WELL	COMBINATION DISCONNECT, WITH RECEPTACLE, REFER TO DRAWING FOR SIZE	EMERGENCY BATTERY LUMINAIRE (2 HEAD) 84" AFF, UNLESS OTHERWISE NOTED	KWH KILOWATT HOUR		
GROUND ROD GROUNTED UTILITY TRANSFORMER	EMERGENCY POWER OFF (EPO) BUTTON	EMERGENCY BATTERY LUMINAIRE (2 HEAD) WITH MOUNTED EXIT SIGN.	LF LINEAR FEET LRA LOCKED ROTOR AMPS		
\sim		A PROVIDE DIRECTIONAL ARROWS AS REQUÍRED MOUNT AT 84" AFF, UNLESS OTHERWISE NOTED	MATV MASTER ANTENNA TELEVISION SYS MBH 1000 BTU PER HOUR		
G ENGINE GENERATOR	FIRE ALARM	WALL MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS REQUIRED	MCA MINIMUM CIRCUIT AMPACITY MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER		
MISCELLANEOUS	FACP FIRE ALARM CONTROL PANEL	A 	MD MOTORIZED DAMPER MDP MAIN DISTRIBUTION PANEL MFR MANUFACTURER		
	FARA FIRE ALARM REMOTE ANNUNCIATOR PANEL	A □→□ DOUBLE POLE MOUNTED, EXTERIOR LUMINAIRE	MG MOTOR GENERATOR MH MANHOLE MSB MAIN SWITCHBOARD		
X KEY NOTE DESIGNATION	ACP ACCESS CONTROL PANEL		MTD MOUNTED MW MICROWAVE		
X SHORT CIRCUIT TAG DESIGNATION XXXX FEEDER TAG DESIGNATION	GACP GAS ALARM CONTROL PANEL	QUAD POLE MOUNTED, EXTERIOR LUMINAIRE	N/A NOT APPLICABLE NIC NOT IN CONTRACT N/O.N/C NORMALLY OPEN, NORMALLY CLOS		
	SMOKE DETECTOR, ADDRESSABLE PHOTO ELECTRIC	BOLLARD LUMINAIRE	N/L NIGHT LIGHT		
	SMOKE DETECTOR, EARLY WARNING LASER DETECTION	CEILING FAN	OC ON CENTER OV OVEN		
	FD FLAME DETECTOR	S SINGLE POLE SWITCH; 3= THREE WAY SWITCH, 4= FOUR WAY SWITCH, K= KEY	PDU POWER DISTRIBUTION UNIT PH,3 PHASE PIV POST INDICATOR VALVE		
$ \begin{array}{c} \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow $	HD HEAT DETECTOR	SWITCH, D= DIMMER SWITCH, T0= MOTOR RATED SWITCH, HOA= HAND-OFF-AUTOMATIC, P= PILOT LIGHT, O= OCCUPANCY SENSOR LOWER CASE LETTER INDICATES LUMINAIRES CONTROLLED	PJ MOUNTED ON CEILING FOR PROJECT PNL PANEL PT POTENTIAL TRANSFORMER		
Section Energy Demolection Energy Section 2017	G GAS DETECTOR	OS CEILING MOUNTED OCCUPANCY SENSOR	QTY QUANTITY		
	DUCT SMOKE DETECTOR, ADDRESSABLE PHOTO ELECTRIC	OS DIRECTIONAL CEILING MOUNTED OCCUPANCY SENSOR	RA RETURN AIR RCP REFLECTED CEILING PLAN		
COMMUNICATIONS	FIRE ADA ALARM STROBE MOUNTED AT 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER	OS DUAL DIRECTIONAL CEILING MOUNTED OCCUPANCY SENSOR	REF REFRIGERATOR REV REVISION RH RELATIVE HUMIDITY		
JUNCTION BOX FOR INSTALLATION OF (1) COMMUNICATION AND (1) DATA OUTLET, MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING.	FIRE ADA ALARM HORN MOUNTED AT 80" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER		RLA RUNNING LOAD AMPS RPM REVOLUTIONS PER MINUTE		
FLOOR JUNCTION BOX FOR INSTALLATION OF COMMUNICATION OR DATA	FIRE ALARM AUDIBLE AND ADA STROBE LIGHT MOUNTED AT 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER	STANDARD MOUNTING HEIGHTS U.N.O.	SA SUPPLY AIR SD SMOKE DETECTOR SF SQUARE FEET		
OUTLET. INSTALL 1" CONDUIT FROM BOX CONCEALED IN FLOOR SLAB TO WALL AND TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING.	F FIRE ALARM MANUAL PULL STATION, ADDRESSABLE DOUBLE ACTION	ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS	SPDT SINGLE POLE, DOUBLE THROW SPST SINGLE POLE, SINGLE THROW SP STATIC PRESSURE		
JUNCTION BOX FOR INSTALLATION OF TV OUTLET. MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. COORDINATE	MAGNETIC DOOR HOLDER	INDICATED ON ELECTRICAL DRAWINGS. RECEPTACLES (CENTERLINE) 18"	SWBD SWITCHBOARD		
	FS FIRE ALARM FLOW SWITCH TS FIRE ALARM TAMPER SWITCH	RECEPTACLES (CENTERLINE)18"RECEPTACLES IN EQUIP. RMS.48"RECEPTACLES (EXTERIOR)24"	TSTAT THERMOSTAT TL TWISTLOCK TV TELEVISION		
UNLESS OTHERWISE NOTED.	TS FIRE ALARM TAMPER SWITCH RM FIRE ALARM CONTROL MODULE (W/ INPUT/OUTPUT MODULE)	RECEPTACLES (GARAGES)24"ALARMS, SWITCHES AND CONTROLS (CENTERLINE)48"	TYP TYPICAL U/F UNDERFLOOR		
SPEAKER, CEILING MOUNTED	RTS DUCT DETECTOR REMOTE INDICATOR ALARM AND TEST	TELEPHONE (PUBLIC)1@48" AND 1@36"TELEPHONE OUTLETS (CENTERLINE)18"TELEPHONE TERMINAL POARD (RTM.)6"	U/G UNDERGROUND U/S UNDER SLAB UL UNDERWRITERS LABORATORIES, II		
SPEAKER, WALL MOUNTED, 84" (CENTERLINE) A.F.F. OR 8" (CENTERLINE) BELOW CEILINGS THAT ARE 8'-0" OR LOWER, UNLESS NOTED OTHERWISE.	CONDUIT DESIGNATIONS	TELEPHONE TERMINAL BOARD (BTM.) 6" SAFETY SWITCHES 48" STARTERS 48"	UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY		
S HORN SPEAKER	XX/XXX PANEL NAME / CIRCUIT NUMBER - BRANCH CIRCUITS HOMERUN	PANELS (TOP) 72" CLOCK OUTLETS (CENTERLINE) 90"	VAC VOLTS ALTERNATING CURRENT, VA VAV VARIABLE AIR VOLUME		
CLOCK, 84" (CENTERLINE) A.F.F. OR 8" (CENTERLINE) BELOW CEILINGS THAT ARE 8'-0" OR LOWER, UNLESS NOTED OTHERWISE.	USE NUMBER 12 AWG WIRE, UNLESS OTHERWISE NOTED. ALL CIRCUITS SHALL CONTAIN A GROUND AND NEUTRAL CONDUCTOR, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE	FIRE ALARM PULL STATIONS (HANDLE)44"STROBES (CENTERLINE)80"*	VM VENDING MACHINE W/ WITH		
VOLUME CONTROL	MULTI-WIRE CIRCUIT HANDLE TIES AS FINAL FIELD INSTALLED WIRING REQUIRES.	FIRE ALARM BELLS (EXTERIOR)12'-0"CONTROLS (FIRE ALARM CONTROL PANEL)48"ANNUNCLATION DANELS48"	W/O WITHOUT WP WEATHERPROOF WT WATERTIGHT, WEIGHT		
INTERCOM MASTER - WALL	CONDUIT AND WIRE CONCEALED, 3/4" UNLESS OTHERWISE NOTED, CONDUIT USED FOR SWITCH LEGS, AND CONDUIT USED FOR CONTROL WIRING	ANNUNCIATION PANELS48"INTERCOM (AFEA ONLY)36"REMOTE INDICATING LIGHT (EQUIP. RMS.)48"	XFMR TRANSFORMER		
INTERCOM MASTER - WALL WITH HANDSET	FOR CONTROL WIRING	REMOTE INDICATING LIGHT (EQUIP. RMS.) 48" REMOTE INDICATING LIGHT (FIN. AREAS) CEILING EXIT SIGNS (WALL MOUNTED BTM.) 80"	XP EXPLOSION PROOF		
$ ^{\Pi} $ INTERCOM MASTER - STAFF STATION	CONDUIT TURNING DOWN	TELEVISION OUTLETS18"INTERCOMS48"			
((WAP)) WIRELESS ACCESS POINT	CONDUIT TURNING UP	PHOTOCELLS 12'-0"			

ELECTRICAL GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS ON ARCHITECTURAL DRAWINGS AND IN FIELD PRIOR TO COMMENCEMENT OF WORK, REFER TO MECHANICAL PLANS FOR LOCATION OF ALL MECHANICAL EQUIPMENT, REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID. COORDINATE ELECTRICAL WORK REQUIRED BY OTHER DISCIPLINES.

2. PROVIDE ELECTRICAL DEMOLITION REQUIRED. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK INVOLVED. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAINTAIN AND/OR RESTORE CONTINUITY OF SERVICE TO EXISTING CIRCUITS. REMOVE EXISTING UNUSED CONDUIT, WIRE, CABLE, J-BOXES, RECEPTACLES, SWITCHES, LIGHTS, FIRE ALARM DEVICES, ETC. COMPLETE WITH ASSOCIATED CIRCUITING TO SOURCE OR NEAREST ACTIVE DEVICE. WHERE IT IS NOT FEASIBLE TO REMOVE THE ABOVE AND WITH PERMISSION FROM THE OWNER, OUTLET SHALL BE ABANDONED, WIRE REMOVED AND BLANK COVER PLATES PROVIDED. IN ALL CONDUIT ABANDONED IN PLACE INSTALL A PULL STRING LABELED AT BOTH ENDS.

3. FIELD VERIFY EXISTING EQUIPMENT OR CIRCUITS THAT ARE REMAINING TO BE RECONNECTED TO NEW OR EXISTING SWITCHBOARDS/PANELBOARDS, PROVIDE SWITCHES, RECEPTACLES, CONDUIT, WIRE, ETC, AS REQUIRED TO RESTORE CONTINUITY OF CIRCUITS.

4. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT. FINAL CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. COORDINATE EQUIPMENT CONNECTION REQUIREMENTS WITH DIVISION 15 CONTRACTOR. CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT SUPPLIED.

5. COORDINATE EQUIPMENT SIZES WITH ROOM SIZES. CONTRACTOR SHALL VERIFY THAT ELECTRICAL EQUIPMENT ORDERED CAN BE INSTALLED IN THE SPACE PROVIDED WHILE MAINTAINING CODE REQUIRED CLEARANCES.

6. EXISTING SYSTEMS AND CONDITIONS SHOWN ON DRAWINGS FOR EXISTING BUILDINGS ARE TO BE NOTED "FOR GUIDANCE ONLY". THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND TO INCLUDE IN HIS BID AN ALLOWANCE FOR REMOVAL AND/OR RELOCATION OF EXISTING CONDUITS, WIRES, DEVICES, FIXTURES, OR OTHER EQUIPMENT AS INDICATED ON THE PLANS OR AS REQUIRED TO COORDINATE AND ADAPT NEW AND EXISTING ELECTRICAL SYSTEM TO ALL OTHER WORK.

7. SYSTEM OUTAGES SHALL BE PERMITTED ONLY AT TIMES APPROVED BY OWNER-IN WRITING. WORK WHICH COULD RESULT IN AN ACCIDENTAL OUTAGE SHALL BE PERFORMED WITH THE OWNER'S MAINTENANCE PERSONNEL ADVISED OF SUCH WORK.

8. EXISTING CONDUCTORS AND RACEWAY MAY BE RE-USED IN PLACE AT THE CONTRACTORS DISCRETION AFTER OBTAINING PERMISSION IN WRITING FROM OWNER AND GRANTING OWNER CREDIT FOR WORK NOT PERFORMED. ALL WIRE AND RACEWAY SHALL BE FULLY FUNCTIONAL AND WARRANTIED AS NEW INCLUDING ANY MATERIAL THAT IS EXISTING AND HAS BEEN RE-USED.

9. EXISTING CONDUITS, WIRE, DEVICES, ETC. WHICH ARE NOT INDICATED FOR REUSE SHALL BE OFFERED TO OWNER, IF REFUSED BY OWNER, SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR.

10. LIGHTING FIXTURES, PANELS, FUSED SWITCHES, CIRCUIT BREAKERS, FIRE ALARM EQUIPMENT ETC. SHALL BECOME THE PROPERTY OF THE OWNER.

11. REVIEW ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING WORK IN THESE AREAS.

12. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES. COORDINATE WORK WITH LOCAL FIRE DEPARTMENT. 13. PROVIDE PERMITS AND INSPECTIONS REQUIRED.

14. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.

15. WIRE SHALL BE COPPER, 60 DEGREES C RATED UP TO 100 AMPS AND 75 DEGREES C RATED ABOVE 100 AMPS. FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS WIRE SHALL BE COPPER, MINIMUM 90 DEGREES C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREES C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.

16. PROVIDE SHOP DRAWINGS SUBMITTALS FOR ITEMS NOTED IN THE SPECIFICATIONS. SHOP DRAWINGS NOT REQUIRED BY THE SPECIFICATIONS WILL NOT BE REVIEWED. 17. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING

PROVIDED UNDER THIS SECTION, OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.

18. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS. 19. SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES,

MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE. 20. NEW RECESSED FIXTURES INSTALLED INDOORS SHALL BE THERMALLY PROTECTED.

21. PROVIDE NEW UPDATED PANELBOARD DIRECTORIES FOR EXISTING AND NEW CIRCUITS BEING UTILIZED FOR COMPLETION OF PROJECT.

22. CONDUITS PENETRATING THROUGH ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT.

23. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE CONDUIT AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS, OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT. PROVIDE VIBRATION ISOLATION PADS FOR ALL TRANSFORMERS AND MOTORS.

24. WHERE PANELS ARE INSTALLED FLUSH WITH WALLS, EMPTY CONDUITS SHALL BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW. A MINIMUM OF ONE 3/4" CONDUIT SHALL BE INSTALLED FOR EVERY THREE SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS.

25. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 60 DEGREES C RATED UP TO 100 AMPS AND 75 DEGREES C RATED ABOVE 100 AMPS.

26. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED BY UL.

27. SYSTEM DEVICES, CONDUIT, WIRES, AND CABLE AS DIRECTED BY EQUIPMENT MANUFACTURER. MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT. SUBMIT SHOP DRAWINGS ACCORDING TO SPECIFICATIONS. SHOP DRAWINGS SHALL INCLUDE A SINGLE LINE DIAGRAM THAT SHOWS DEVICES, CONDUIT, WIRE, CABLE SIZES AND EQUIPMENT TO BE USED. SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A REGISTERED ENGINEER PROVIDED BY THE FIRE ALARM VENDOR. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.

28. BACK-TO-BACK OUTLETS IN THE SAME WALL, OR "THRU-WALL" TYPE BOXES SHALL NOT BE PERMITTED. PROVIDE 24-INCH SEPARATION TO OFFSET OUTLETS SHOWN ON OPPOSITE SIDES OF A COMMON WALL TO MINIMIZE SOUND TRANSMISSION. COVER BACKBOXES WITH EITHER FIRE OR SOUND PUTTY PAD.

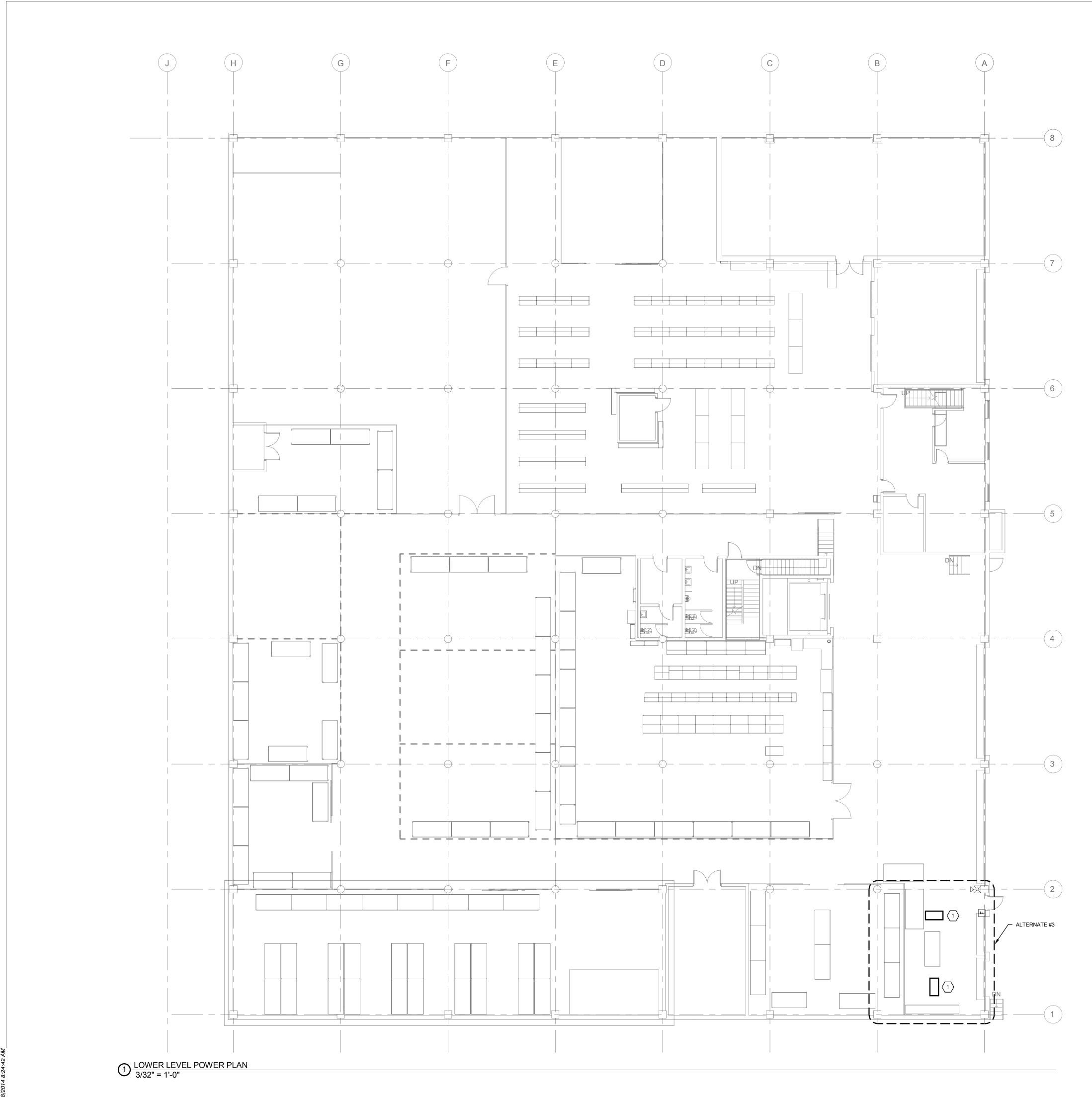
29. OUTLET BOXES ON OPPOSITE SIDES OF FIRE-RATED WALLS AND PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES.

30. THE FIRE ALARM SYSTEM SHOP DRAWINGS WILL BE PROVIDED AS A DEFERRED SUBMITTAL IN ACCORDANCE WITH 2009 IBC 107.2.2, 107.3.4.2, 2002 NFPA 72, AND 2011 NEC. EXTEND FIRE ALARM SYSTEM DEVICES, CONDUIT, WIRES, AND CABLE AS DIRECTED BY EQUIPMENT MANUFACTURER. MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT. SUBMIT SHOP DRAWINGS ACCORDING TO SPECIFICATIONS. SHOP DRAWINGS SHALL INCLUDE A SINGLE LINE DIAGRAM THAT SHOWS DEVICES, CONDUIT, WIRE, CABLE SIZES AND EQUIPMENT TO BE USED. SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A REGISTERED ENGINEER PROVIDED BY THE FIRE ALARM VENDOR. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.

31. FIRE ALARM CONTRACTOR SHALL PROVIDE NEW GRAPHIC MAP. NEW MAP SHALL COMPLY WITH REQUIREMENTS OUTLINED IN SPECIFICATION SECTION 28 31 11.

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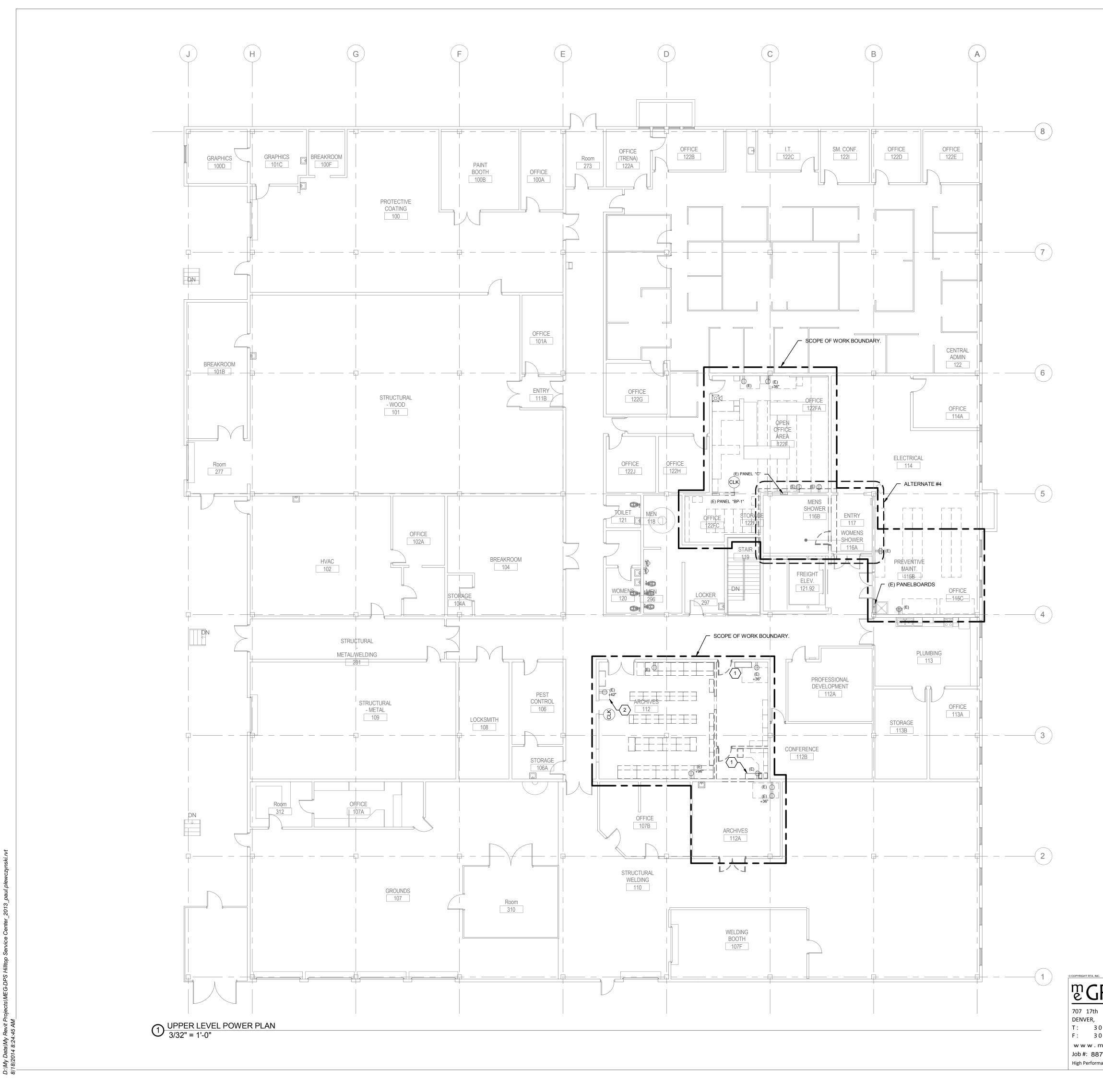




GENERAL NOTES (THIS SHEET)
1. COORDINATE SEQUENCE OF DEMOLITION WITH OWNER AND ARCHITECT PRIOR TO BEGINNING WORK.
2. PROTECT EQUIPMENT THAT IS TO BE RELOCATED FROM DAMAGE. STORE INDOORS IN A SAFE LOCATION UNTIL EQUIPMENT CAN BE RE-INSTALLED.
3. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE THEMSELVES WITH THE PROJECT AND INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH NEW WORK.
4. CONTRACTOR SHALL VERIFY QUANTITIES OF OPERATIONAL LUMINAIRES IN THE FIELD.
5. REMOVE AND OFFER TO OWNER ALL LIGHTING AND LIGHTING CONTROLS FROM AREAS OF DEMOLITION UNLESS NOTED OTHERWISE, ALL FIXTURES REFUSED BY OWNER SHALL BE PROPERLY DISPOSED. SALVAGED LIGHTING SHALL BE STORED AND PREPARED FOR INSTALLATION IN NEW WORK.
6. REMOVE ALL ELECTRICAL DEVICES FROM WALLS SHOWN IN DASHED LINEWEIGHT AND DEVICES WITH A HATCH PATTERN OVER THEM. REMOVE BRANCH CIRCUITING INCLUDING BACK BOXES, CONDUCTOR AND CONDUIT FROM DEVICE LOCATION TO PANELBOARD OR NEAREST DEVICE TO REMAIN. DEVICES SHOWN IN THIN LINEWEIGHT WITHOUT A HATCH PATTERN OVER THEM ARE EXISTING TO REMAIN.
7. REMOVE EXISTING SURFACE MOUNTED RECEPTACLES, AND DATA DEVICES WITHIN THE AREAS OF DEMOLITION UNLESS NOTED OTHERWISE. DEMO CONDUIT AND CONDUCTORS BACK TO NEAREST DEVICE ON CIRCUIT.
8. CIRCUIT BREAKERS MADE SPARE BY REMODEL WORK SHALL BE LABELED AS SPARE.
9. REVISE EXISTING PANEL SCHEDULES TO SHOW NEW WORK.
10. IDENTIFY EXISTING CIRCUITS SERVING AREA FOR REUSE DURING NEW WORK.
11. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR SUMMARY OF REMOVED AND ADDED LOADS.
12. DEMOLISH ALL LIGHT SWITCHES THAT ARE EXISTING AND ARE CURRENTLY NOT SERVING ANY FUNCTIONAL LIGHTING. SWITCHES THAT ARE IN SPACES WHERE WORK IS NOT BEING CONDUCTED ARE TO REMAIN UNLESS OTHERWISE NOTED.
KEY NOTES (THIS SHEET)
1. DEMOLISH EXISTING LUMINAIRE. REMOVE BRANCH CIRCUITING INCLUDING BACK BOXES, CONDUCTOR AND CONDUIT FROM DEVICE LOCATION TO PANELBOARD OR NEAREST DEVICE TO REMAIN.

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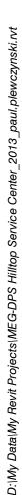


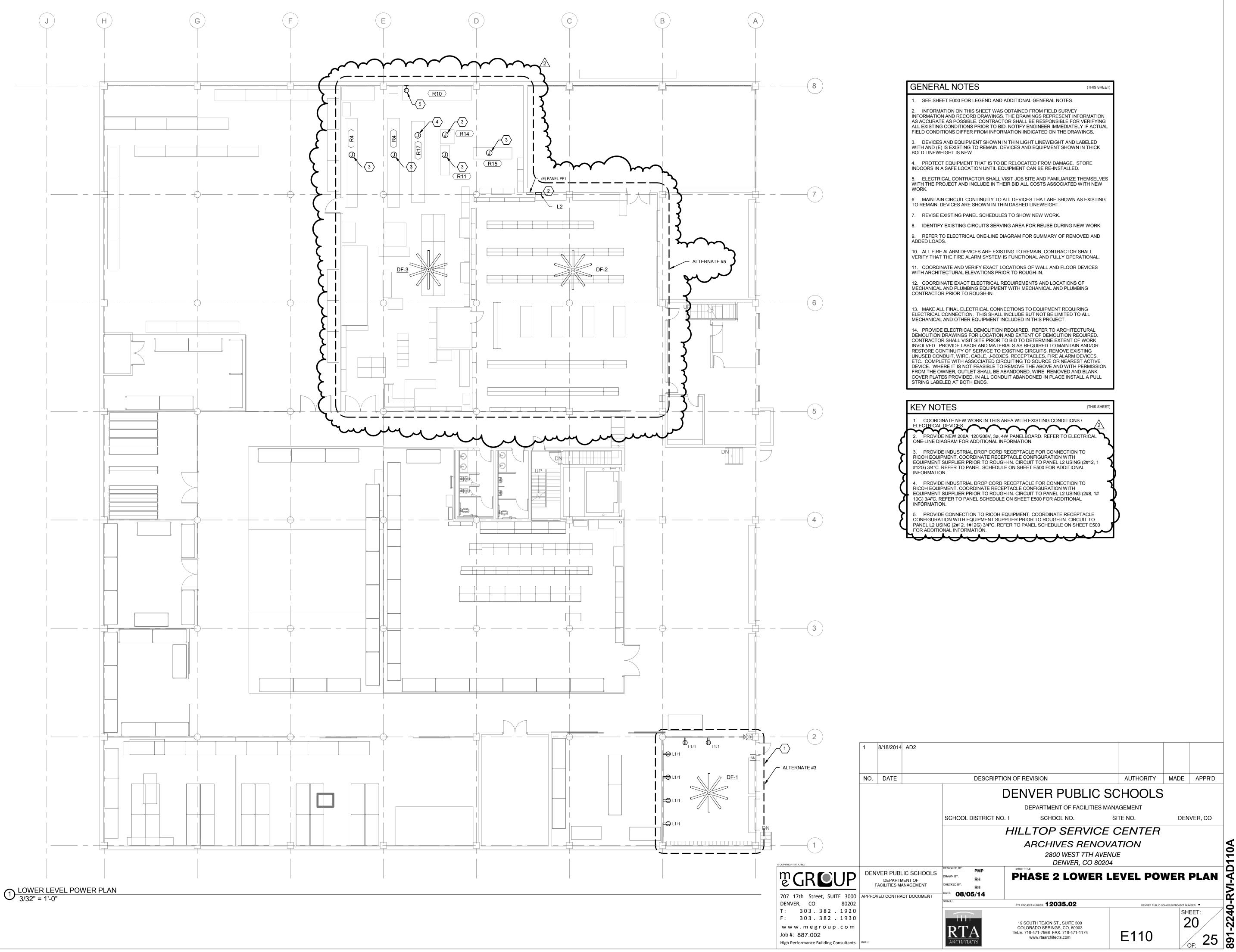
GENERAL NOTES (THIS SHEET
1. COORDINATE SEQUENCE OF DEMOLITION WITH OWNER AND ARCHITECT PRIOR TO BEGINNING WORK.
2. PROTECT EQUIPMENT THAT IS TO BE RELOCATED FROM DAMAGE. STORE INDOORS IN A SAFE LOCATION UNTIL EQUIPMENT CAN BE RE-INSTALLED.
3. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE THEMSELVES WITH THE PROJECT AND INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH NEW WORK.
4. CONTRACTOR SHALL VERIFY QUANTITIES OF OPERATIONAL LUMINAIRES IN THE FIELD.
5. REMOVE AND OFFER TO OWNER ALL LIGHTING AND LIGHTING CONTROLS FROM AREAS OF DEMOLITION UNLESS NOTED OTHERWISE, ALL FIXTURES REFUSED BY OWNER SHALL BE PROPERLY DISPOSED. SALVAGED LIGHTING SHALL BE STORED AND PREPARED FOR INSTALLATION IN NEW WORK.
6. REMOVE ALL ELECTRICAL DEVICES FROM WALLS SHOWN IN DASHED LINEWEIGHT AND DEVICES WITH A HATCH PATTERN OVER THEM. REMOVE BRANCH CIRCUITING INCLUDING BACK BOXES, CONDUCTOR AND CONDUIT FROM DEVICE LOCATION TO PANELBOARD OR NEAREST DEVICE TO REMAIN. DEVICES SHOWN IN THIN LINEWEIGHT WITHOUT A HATCH PATTERN OVER THEM ARE EXISTING TO REMAIN
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8. CIRCUIT BREAKERS MADE SPARE BY REMODEL WORK SHALL BE LABELED AS SPARE.
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11. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR SUMMARY OF REMOVED AND ADDED LOADS.
12. DEMOLISH ALL LIGHT SWITCHES THAT ARE EXISTING AND ARE CURRENTLY NOT SERVING ANY FUNCTIONAL LIGHTING. SWITCHES THAT ARE IN SPACES WHERE WORK IS NOT BEING CONDUCTED ARE TO REMAIN UNLESS OTHERWISE NOTED.
KEY NOTES (THIS SHEET

1. EXISTING MECHANICAL EQUIPMENT TO BE RELOCATED. REFER TO MECHANICAL DRAWINGS FOR NEW LOCATION. EXTEND CIRCUIT AS NECESSARY TO NEW LOCATION OF EQUIPMENT.

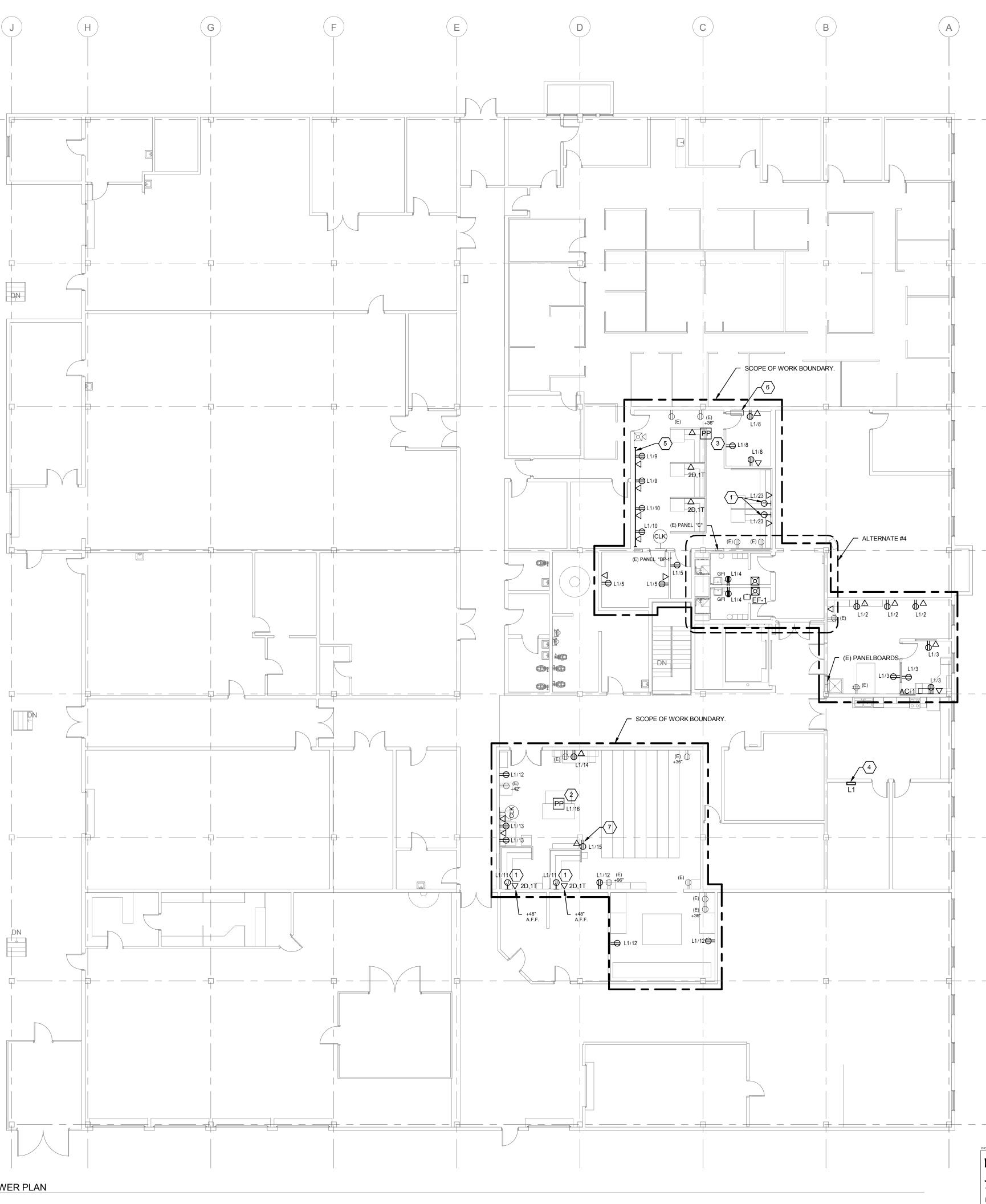
2. EXISTING TELECOM EQUIPMENT TO BE RELOCATED. COORDINATE NEW LOCATION WITH OWNER. RELOCATE EXISTING POWER AND ALL ASSOCIATED ELECTRICAL EQUIPMENT TO NEW LOCATION.

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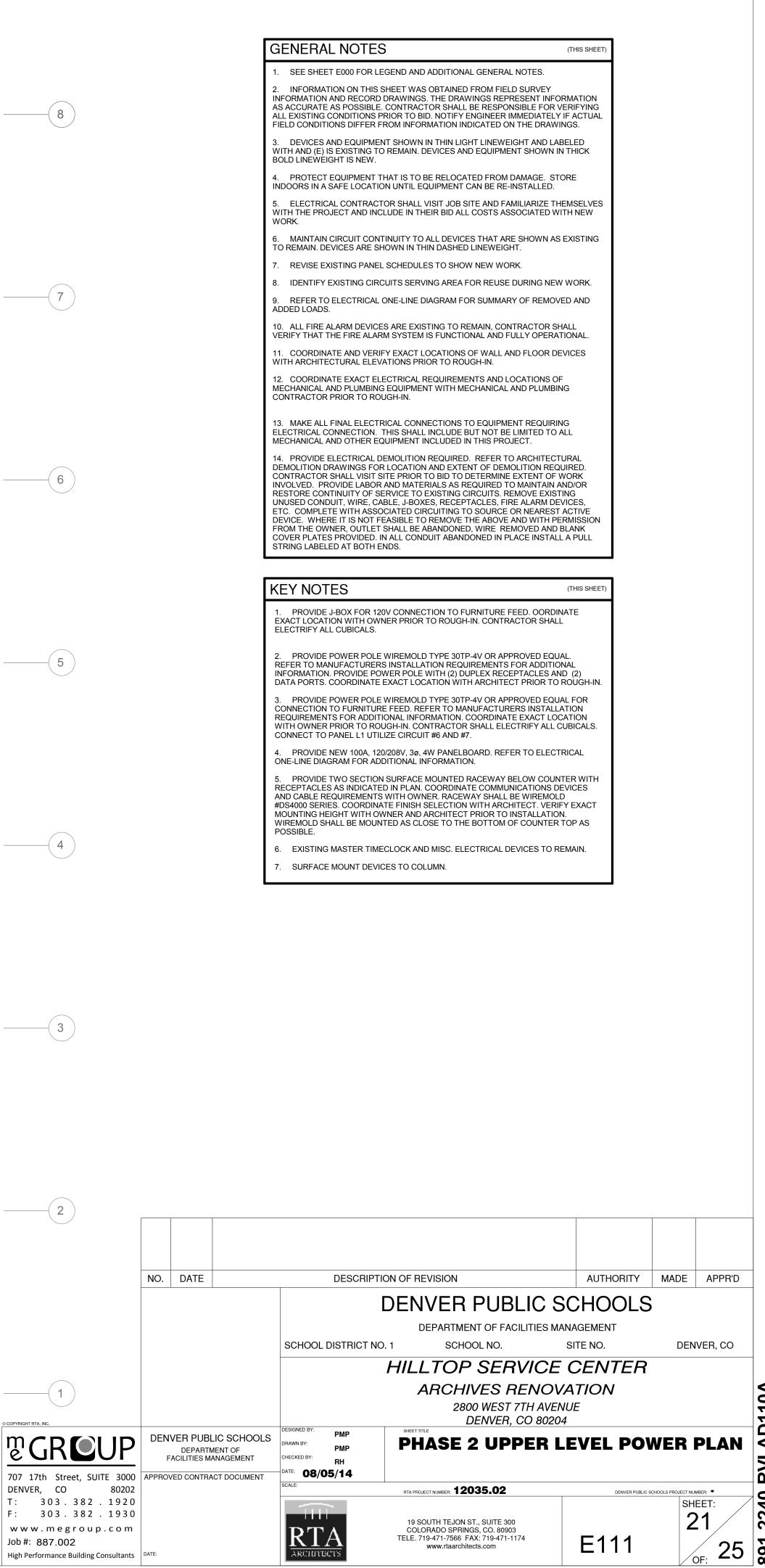




 $1 \frac{\text{UPPER LEVEL POWER PLAN}}{3/32" = 1'-0"}$

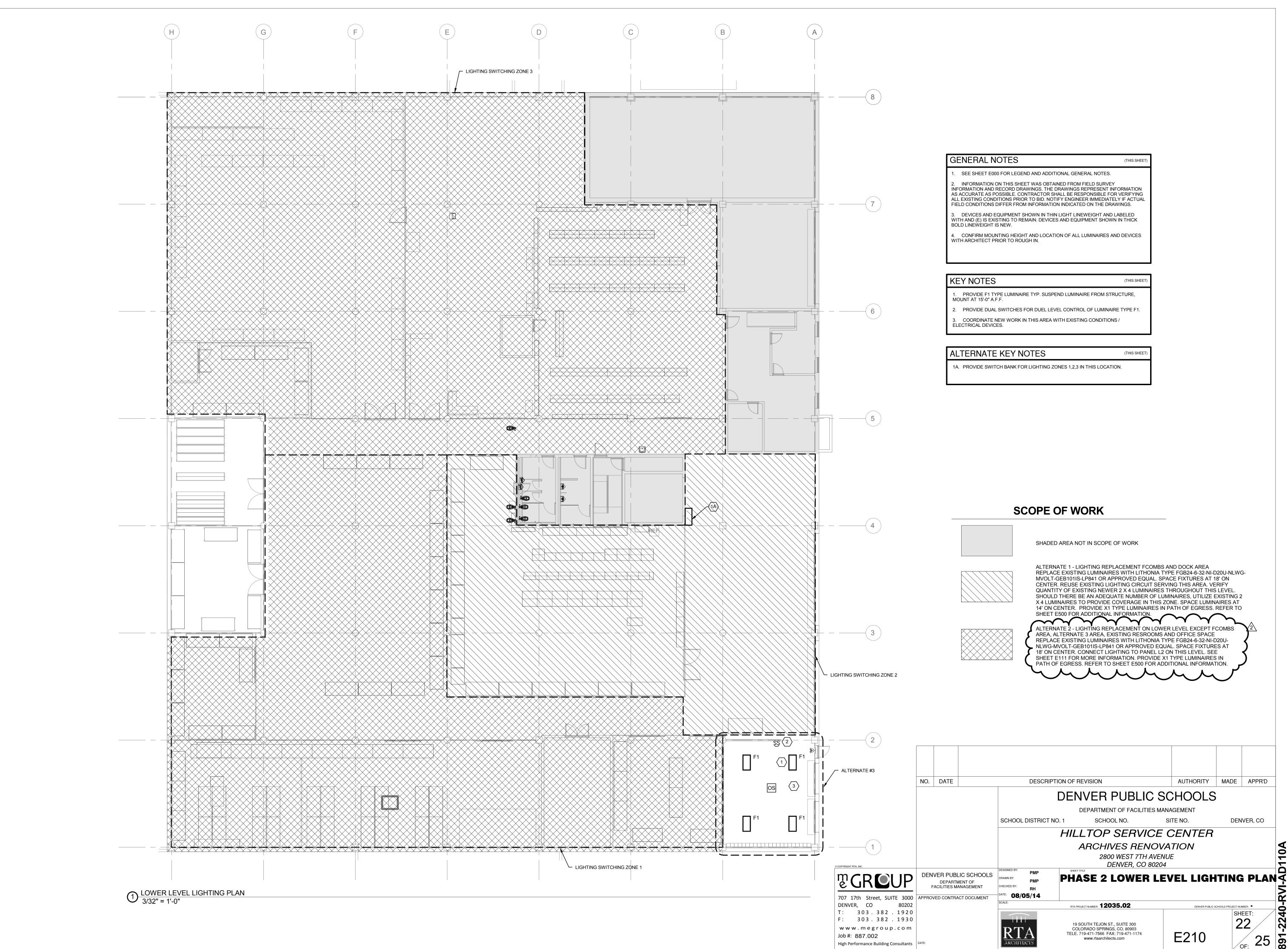


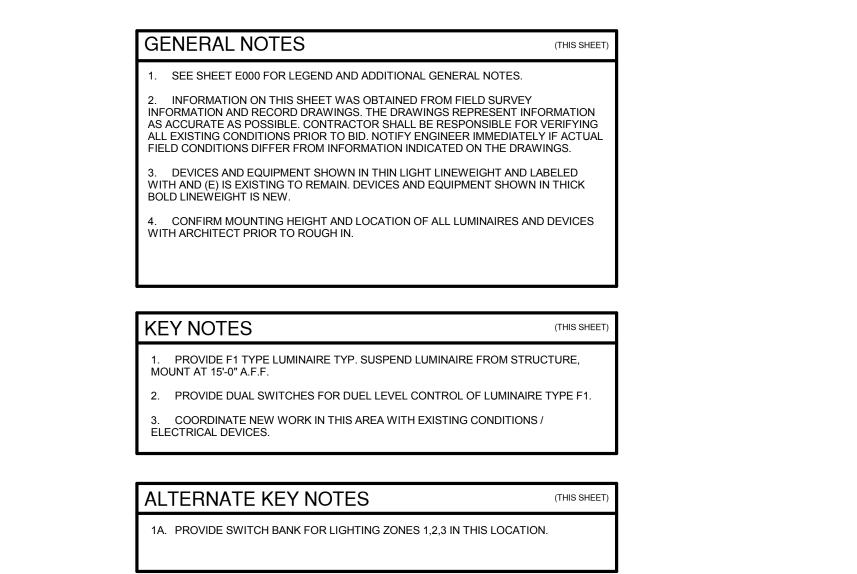
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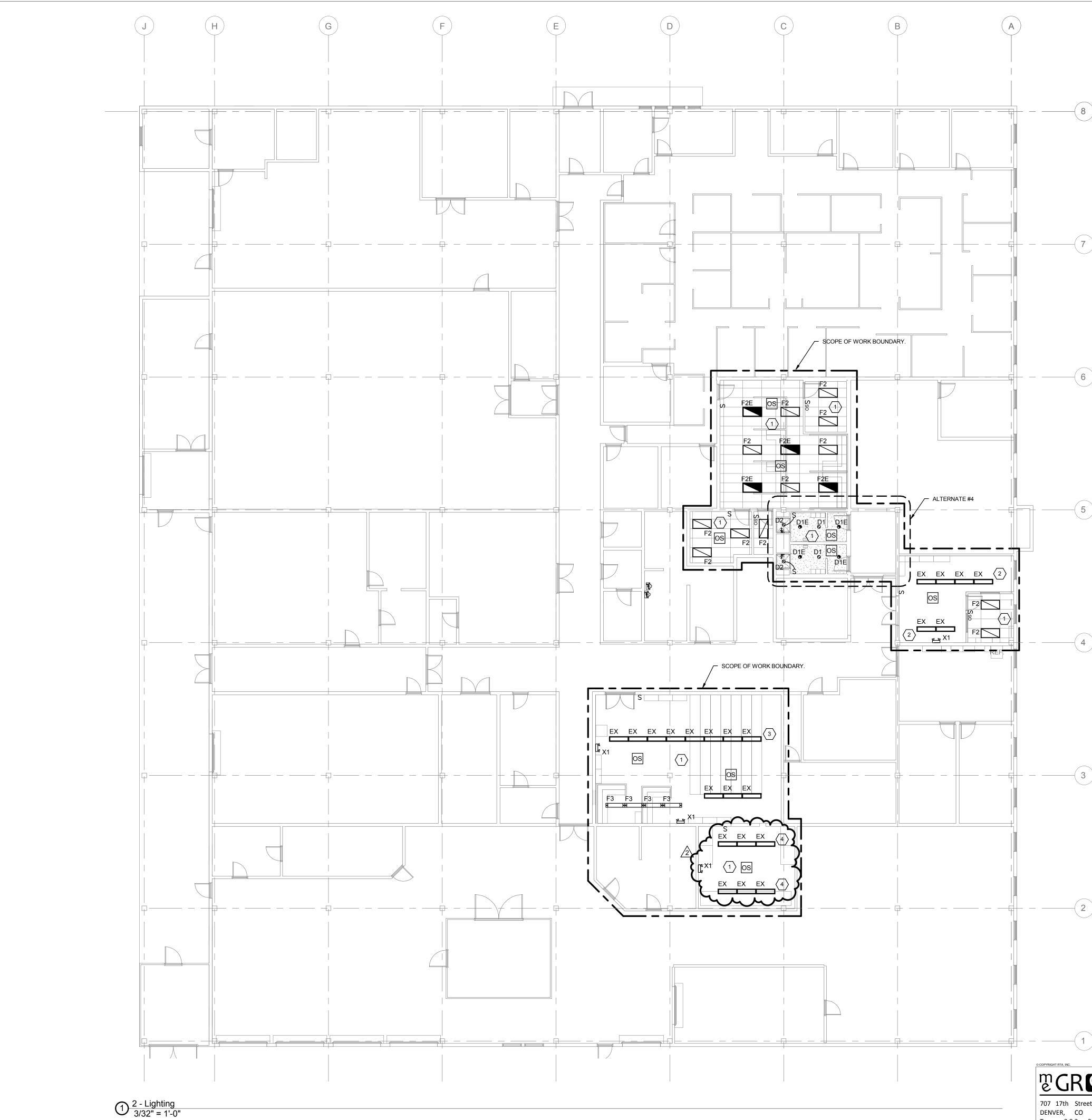


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GENERAL NOTES

1. SEE SHEET E000 FOR LEGEND AND ADDITIONAL GENERAL NOTES.

2. INFORMATION ON THIS SHEET WAS OBTAINED FROM FIELD SURVEY INFORMATION AND RECORD DRAWINGS. THE DRAWINGS REPRESENT INFORMATION AS ACCURATE AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID. NOTIFY ENGINEER IMMEDIATELY IF ACTUAL FIELD CONDITIONS DIFFER FROM INFORMATION INDICATED ON THE DRAWINGS.

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3. DEVICES AND EQUIPMENT SHOWN IN THIN LIGHT LINEWEIGHT AND LABELED WITH AND (E) IS EXISTING TO REMAIN. DEVICES AND EQUIPMENT SHOWN IN THICK BOLD LINEWEIGHT IS NEW.

4. CONFIRM MOUNTING HEIGHT AND LOCATION OF ALL LUMINAIRES AND DEVICES WITH ARCHITECT PRIOR TO ROUGH IN.

KEY NOTES

1. CONNECT LUMINAIRES TO EXISTING 120V CIRCUIT PREVIOUSLY SERVING THIS AREA. LOAD REMOVED IS GREATER THAN LOAD ADDED.

2. EXISTING LUMINAIRES TO REMAIN. REMOVE LUMINAIRES AS NECESSARY TO ACCOMMODATE NEW OFFICE.

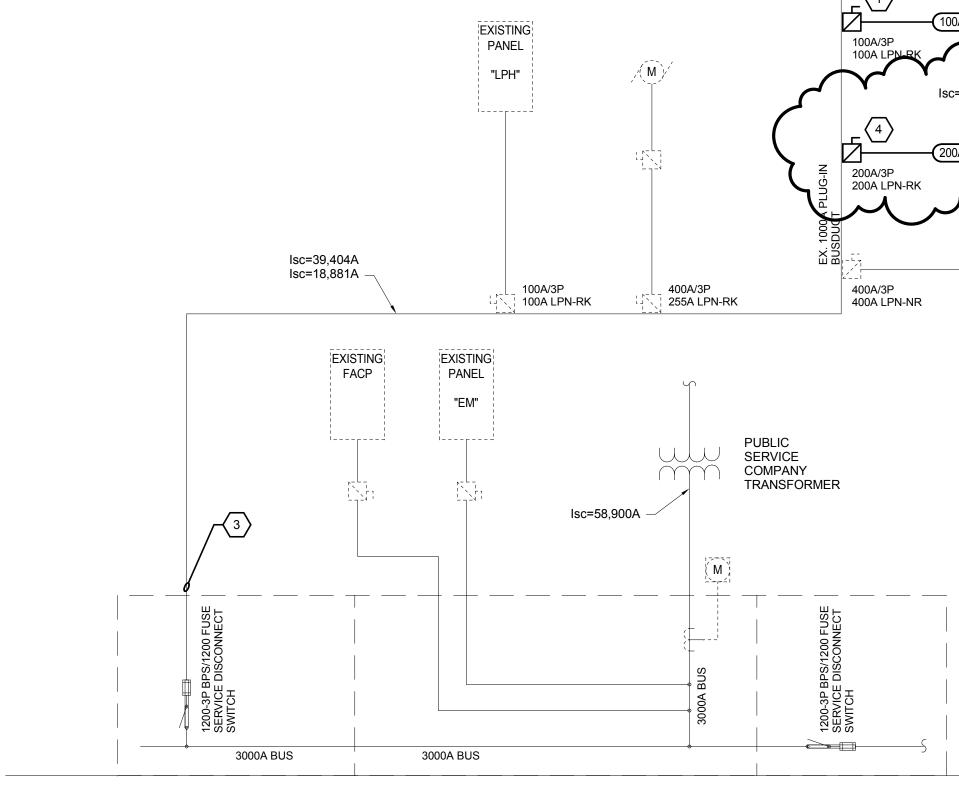
3. RECONFIGURE EXISTING LUMINAIRES TO LOCATIONS SHOWN. MAINTAIN CIRCUIT CONTINUITY TO ALL LUMINAIRES THAT ARE TO REMAIN IN THIS SPACE.

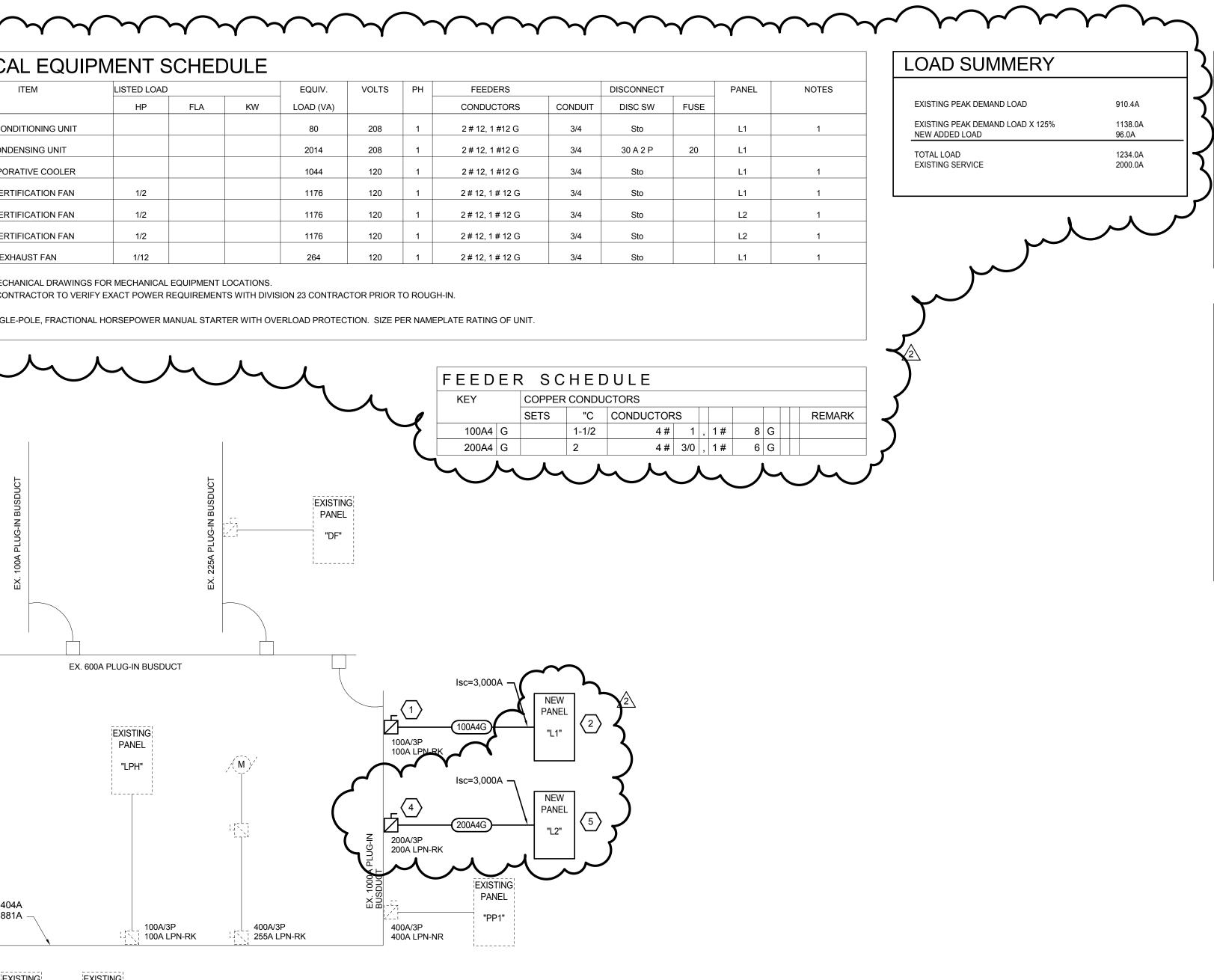
4. RELOCATE LUMINAIRES FROM OLD ARCHIVE SPACE. CONNECT LUMINAIRES TO EXISTING 120V CIRCUIT PREVIOUSLY SERVING THIS AREA. LOAD REMOVED IS GREATER THAN LOAD ADDED.

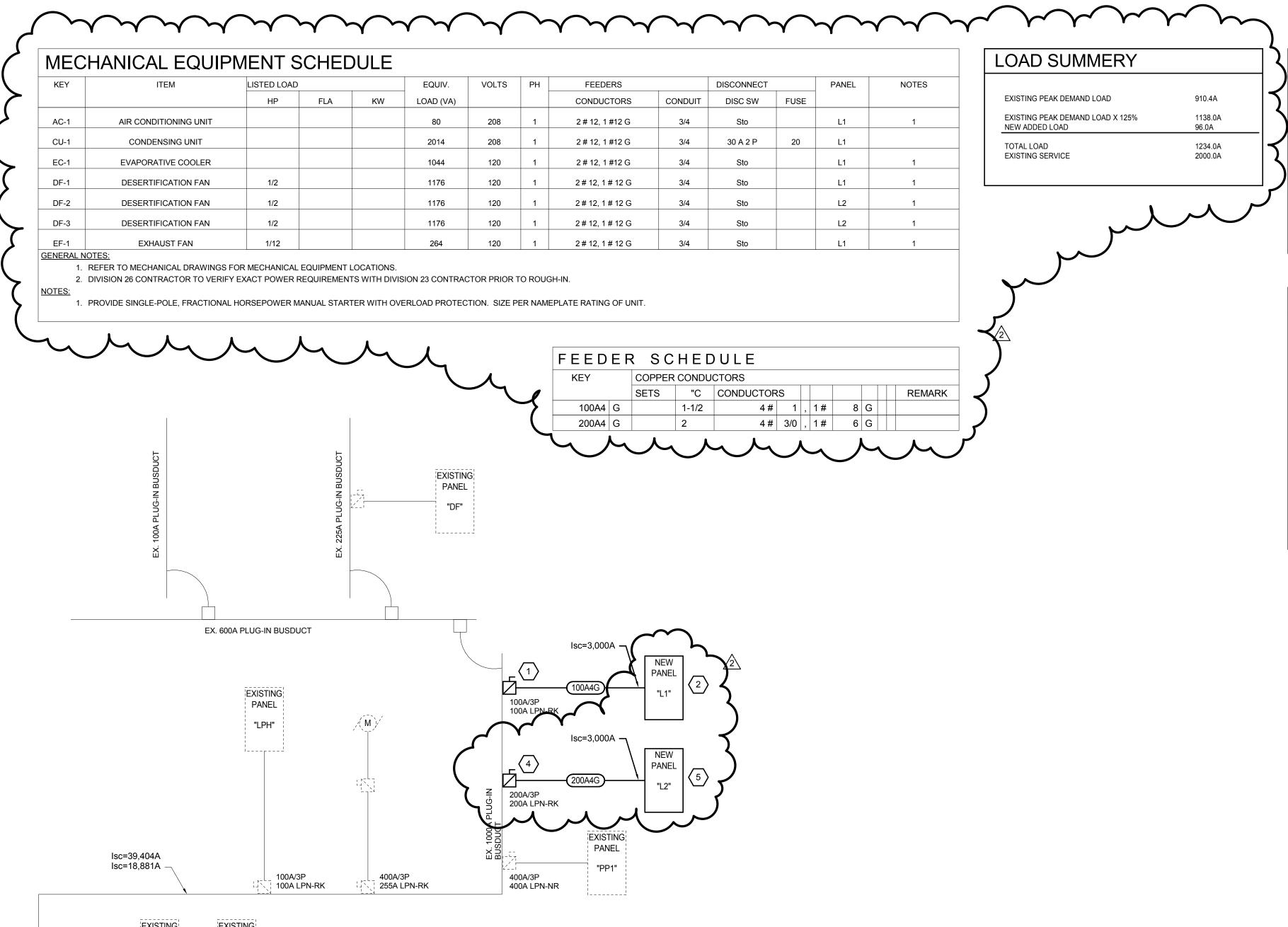
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1/8" = 1'-0"









EXISTING MAIN SERVICE SWITCHBOARD "MSB" 3000A, 120/208V, 3 Ø, 4W, BRACED FOR 100,000 A.I.C.



GENERAL NOTES

(THIS SHEET)

- 1. SEE SHEET E001 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
- INFORMATION ON THIS SHEET WAS OBTAINED FROM FIELD SURVEY INFORMATION AND RECORD DRAWINGS. THE DRAWINGS REPRESENT INFORMATION AS ACCURATE AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID. NOTIFY ENGINEER IMMEDIATELY IF ACTUAL FIELD CONDITIONS DIFFER FROM INFORMATION INDICATED ON THE DRAWINGS.
- . REFER TO ELECTRICAL FLOOR PLANS FOR PANEL LOCATIONS.
- 4. ALL EQUIPMENT IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- 5. ALL NEW DEVICES IN EXISTING GEAR SHALL BE UL LISTED FOR THE EQUIPMENT, BE OF THE SAME MANUFACTURER AND WITHSTAND RATING.

$\mathsf{KEY}\,\mathsf{NOTES}\,\overline{\langle \times \rangle}$

(THIS SHEET)

- 1. PROVIDE 100A3P BUS DUCT DISCONNECT WITH 100A FUSE TO MATCH EXISTING BUILDING DISCONNECTS, LOCATE IN ACCESSIBLE AREA.
- 2. PROVIDE NEW 100A, 120/208V, 3Ø, 4W PANELBOARD WITH 100A MAIN BREAKER, AND MINIMUM OF 10KAIC RATING. PROVIDE PANELBOARD WITH 42 POLE SPACES.

3.	PROVIDE THREE PHASE DIGITAL RECORDING CIRCUIT ANALYZER ON INDICATED BUSDUCT FOR A PERIOD OF THIRTY DAYS PRIOR TO THE START OF CONSTRUCTION TO VERIFY EXISTING LOAD. CIRCUIT ANALYZER SHALL RECORD VOLTAGE, AMPERAGE, KVA AND POWER FACTOR FOR EACH PHASE AND AVERAGE FOR ALL PHASES. ANALYZER SHALL ALSO RECORD A PER DAY MAXIMUM DEMAND. THE CONTRACTOR SHALL COMPILE A SUMMARY REPORT LISTING MAXIMUM READINGS AND SUBMIT A 7-DAY AND 30-DAY REPORTS TO THE ENGINEER. ANALYZER SHALL HAVE BEEN CALIBRATED IN PREVIOUS 60 DAYS. SUBMIT DOCUMENTATION OF CALIBRATION TO ENGINEER.
4.	PROVIDE 200A3P BUS DUCT DISCONNECT WITH 200A FUSE TO MATCH EXISTING BUILDING DISCONNECTS, LOCATE IN ACCESSIBLE AREA.
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X1 GENER GENER SCHED SCHED SCHED SCHED CEITISCRECE CEITISCRECE CEITISCRECE CEITISCRECE CEITISCRECE CEITISCRECE CEITISCRECE	SALVAGEE THERMOP AL NOTES: A. CONTRAC B. VERIFY TR C. COORDINA DULED NOTES: 1. PROVIDE V 3. PROVIDE V 3. PROVIDE V 3. PROVIDE V SHALL PE PANEL: Location: upply From: Mounting: Enclosure: STALL PE PANEL: CEPT. DFFICE 122F PT. CEPT. DFFICE 122F PT.	DURING DEMC LASTIC EMERGI TOR TO VERIFY IM COMPATIBIL ATE WALL MOUN WITH 0-10V DIMI WITH 00 MINUTE WITH DURL LEVI ROVIDED TO A LOAD CLASS R LOAD CLASS R R R R R R R R R R R R R R R R R R	LIGHT FIX ITY WITH C TING BALL BATTERY EL LAMP C COMPLIS 5 7 20 A 20 A 20 A 20 A 20 A 20 A	LIGHT TURE CAT CEILING TY GHTS WITH AST, 0.05 ° BACKUP, ONTROL/ S THE DIA 1 1 1 1 1 1 1 1 1 1 1 1 1 1	۲ ۲
GENER GENER SCHED	AL NOTES: A. CONTRAC B. VERIFY TR C. COORDINA OULED NOTES: 1. PROVIDE V 2. PROVIDE V 3. PROVIDE V 3. PROVIDE V 3. PROVIDE V 3. PROVIDE V SHALL PE PADE Enclosure: PT. CEPT. DFFICE 122F PT. ARCHIVE 112 EPT.	TOR TO VERIFY IM COMPATIBIL ATE WALL MOUN WITH 0-10V DIMI WITH 90 MINUTE WITH DUAL LEVI PROVIDED TO A LOAD Class R R R R R R R R R R R R R R R R R R	LIGHT FIX ITY WITH C VING HEIC MING BALL BATTERY EL LAME C COMPLIS COMPLIS 20 A 20 A 20 A 20 A 20 A 20 A 20 A	TURE CAT CEILING TY GHTS WITH AST, 0.05 ° BACKUP, ONTROL/ 3 THE DIA THE DIA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y H
Circuit Desc Granch I Su Circuit Desc CER LEVEL RECI CE 115C RECE CE 122FFC REC NITURE FEED C	A. CONTRAC B. VERIFY TR C. COORDINA OULED NOTES: 1. PROVIDE V 2. PROVIDE V 3. PROVIDE V 5. SHALL PE 5. S	IM COMPATIBIL TE WALL MOUN WITH 0-10V DIMI WITH 90 MINUTE WITH DUAL LEVE ROVIDED TO A LOAD Class R R R R R R R R R R R R R	Trip 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	۲ ۲
Circuit Desc Circuit Desc CER LEVEL RECE CE 115C RECEF CE 122FFC RECE NITURE FEED C	B. VERIFY TR C. COORDINA OULED NOTES: 1. PROVIDE V 2. PROVIDE V 3. PROVIDE V 5. FROVIDE V 5. FRO	IM COMPATIBIL TE WALL MOUN WITH 0-10V DIMI WITH 90 MINUTE WITH DUAL LEVE ROVIDED TO A LOAD Class R R R R R R R R R R R R R	Trip 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y
Circuit Desc Granch I Su Circuit Desc Ver Level Reci Ce 115C Rece Ce 122FFC Reci NITURE FEED C	1. PROVIDE V 2. PROVIDE V 3. PROVIDE V 3. PROVIDE V SHALL PE Panel: Location: upply From: Mounting: Enclosure: PT. CEPT. DFFICE 122F PT. ARCHIVE 112 EPT.	VITH 0-10V DIMI VITH 90 MINUTE VITH DUAL LEVI PROVIDED TO A LOAD Class Recessed Type 1 Load Class R R R R R R R R R R R R R R R R	Trip 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5
Circuit Desc Granch I Su Circuit Desc CE LEVEL RECE CE 115C RECE CE 122FFC RECE NITURE FEED C	3. PROVIDE V SHALL BE Decation: upply From: Mounting: Enclosure: Enclosure: PT. CEPT. PT. CEPT. DFFICE 122F PT. ARCHIVE 112 EPT.	VITH DUAL LEVE PROVIDED TO A LOAD Class R Load Class R R R R R R R R R R R R R	Trip 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ξ
Circuit Desc ZER LEVEL RECE CE 115C RECEF CE 122FFC REC NITURE FEED C	Panel: Location: upply From: Mounting: Enclosure: Enclo	Load Class Recessed Type 1 Load Class R R R R R R R R R R R R R R R R	 Trip 20 A 	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Circuit Desc ZER LEVEL RECE CE 115C RECEF CE 122FFC REC NITURE FEED C	Location: upply From: Mounting: Enclosure: E	Recessed Type 1 Load Class R R R R R R R R R R	20 A 20 A 20 A 20 A 20 A 20 A 20 A	1 1 1 1 1 1 1 1 1	
ER LEVEL RECI CE 115C RECEF CE 122FFC REC NITURE FEED C	EPT. PT. CEPT. DFFICE 122F PT. ARCHIVE 112 EPT.	R R R R R R R R	20 A 20 A 20 A 20 A 20 A 20 A 20 A	1 1 1 1 1 1 1 1 1	
CE 122FFC REC NITURE FEED C	CEPT. DFFICE 122F PT. ARCHIVE 112 EPT.	R R R R R R	20 A 20 A 20 A 20 A	1 1 1 1 1 1 1	
	PT. ARCHIVE 112 EPT.	R R R	20 A 20 A	1 1 1	
CE 122F RECEF	ARCHIVE 112 EPT.	R	20 A	1 1	-
NITURE FEED A	EPT.		-	-	
HIVES 112 RECI	R	E			
HIVES PLOTTER			20 A	1	
		М	20 A	2	
		М	20 A	1	
NITURE FEED C	DEFICE 122F	R	20 A 20 A	1	
RE			20 A	1	
RE			20 A 20 A	1	
RE			20 A 20 A	1	
RE			20 A	1	
RE RE			20 A 20 A	1	
RE			20 A	1	ĺ
			Tota	al Load: al Amps: Balance	-
	ssification		Con	nected L	•
ting tinuous					_
eptacle				7940 VA	
-				2564 VA 2014 VA	_
ipment				2400 VA	
liance					-
;	ating tinuous ceptacle or gest Motor tipment liance	tinuous eeptacle or gest Motor ipment	tinuous eeptacle or gest Motor ipment	tinuous eeptacle or gest Motor ipment	tinuous eeptacle 7940 VA or 2564 VA gest Motor 2014 VA iipment 2400 VA

DESCRIPTION	MANUFACTURER	
	OR APPROVED	CATALOG SERIES NUMBER
	EQUIVALENT	OR APPROVED EQUIVALENT
	FOCAL POINT	FGB24-6-32-NI-D20U-NLWG-MVOLT-2/3-GEB101IS-LP841
S AND ELECTRONIC BALLAST		
IONAL FIXTURE WITH	LITHONIA	2AL8-2-32-MVOLT-GEB10PS-LP841
PS AND ELECTRONIC BALLAST		
IONAL FIXTURE WITH	LITHONIA	2AL8-2-32-MVOLT-GEB10PS-LP841-EL14
PS AND ELECTRONIC BALLAST WITH BATTERY BACKUP		
AR FLUORESCENT 33% DIRECT / 67% INDIRECT LUMINAIRE	PEERLESS	SPM4-2-32-WHR-(REFER TO FLOOR PLAN)-120-GEB10-1SE-EL-SCT-LP841-F1-24-CO32
EL HOUSINGAND ALUMINUM END CAPS, INJECTION MOLDED ACRYLIC		
E, STRAIGHT CORD, AND 90% EFFICIENCY MINIMUM.		
WITH COMPACT FLUORESCENT LAMP,	LITHONIA	AFV-32TRT-6AR-MVOLT
E REFLECTOR, WHITE FLANGE AND ELECTRONIC BALLAST		
WITH COMPACT FLUORESCENT LAMP,	LITHONIA	AFV-32TRT-6AR-MVOLT-EL
E REFLECTOR, WHITE FLANGE AND ELECTRONIC BALLAST		
WITH COMPACT FLUORESCENT LAMP,	LITHONIA	LGFV-32TRT-6RW-FOL-MVOLT
TION AND ELECTRONIC BALLAST.		
AR FLUORESCENT	N/A	N/A
DLITION		
ENCY LED LIGHT	LITHONIA	EML2-LED-SD

IGHT FIXTURE CATALOG NUMBER AND INSTALLTION REQUIREMENTS PRIOR TO ODRDERING.

Y WITH CEILING TYPE PRIOR TO SUBMITTALS. FING HEIGHTS WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

<u>= B</u> / 'EL	ATTERY	BACKUP ONTROL/	, INTEGR SWITCH	AL SELF	DIAGNOS SHALL I	STICS, AR	ROWS A	S SHOWI	N ON PLA	NS AND	MOUNTING TYP	IECTED TO DIMMER SWITCH. E AS SHOWN ON PLAN. E. WHERE STEP DIMMING IS NOT POS	SIBLE INB	OARD/OUTBO	DARD BALLASTS		`
					Volts: Phases: Wires:		3 Wye				A.I.C. Ratin Mains Typ Bus Ratin MCB Ratin					n:	
s	Trip	Poles		A /A)		B /A)		C /A)	Poles	Trip	Load Class	Circuit Description	скт	скт	Circuit Description	Load Class	
	20 A	1	1080	, 540				/	1	20 A	R	PREV. MAINT. 115B RECEPT.	2	1			
	20 A	1			720	360			1	20 A	R	RESTROOM RECEPT.	4	3	RICOH 1357EX	E	2
	20 A	1					540	500	1	20 A	R	FURNITURE FEED OFFICE 122F	6	5	RICOH C651EX	Е	
	20 A	1	500	540					1	20 A	R	OFFICE 122FA RECEPT.	8	7	RICOTICOTILA	L	
	20 A	1			360	360			1	20 A	R	OFFICE 122F RECEPT.	10	9	DF-3	М	2
	20 A	1					1000	720	1	20 A	R	ARCHIVES 112 RECEPT.	12	11	SPARE		2
	20 A	1	360	1200					1	20 A	E	ARCHIVES PLOTTER	14	13	SPARE		2
	20 A	1			1200	0			1	20 A	R	ARCHIVES POWER POLE	16	15	SPARE		2
	20 A	2					40	264	1	20 A	М	EF-1	18	17	SPARE		2
	2077	2	40	1176					1	20 A	М	DF-1	20	19	SPARE		2
	20 A	1			1044	1007			2	20 A	LM	CU-1	22	21	SPARE		2
	20 A	1					360	1007	-	2070	2.00		24	23	SPARE		2
	20 A	1	0	0					1	20 A		SPARE	26	25	SPACE		
	20 A	1			0	0			1	20 A		SPARE	28	27	SPACE		
	20 A	1					0	0	1	20 A		SPARE	30	29	SPACE		
	20 A	1	0	0					1	20 A		SPARE	32	31	SPACE		

-- SPARE

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SPARE

34

36

38

40

42

33 SPACE

35 SPACE

37 SPACE

39 SPACE

41 SPACE

20 A	1					0	0	1	20 A	
20 A	1	0	0					1	20 A	
20 A	1			0	0			1	20 A	
20 A	1					0	0	1	20 A	
Tota	al Load:	5436	6 VA	505 ⁻	1 VA	443 ⁻	1 VA			
Tota	I Amps:	46	A	43	A	37	΄ Α			
Phase I	Balance	93	% A-B	88	% B-C	82	% C-A]		

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0 0

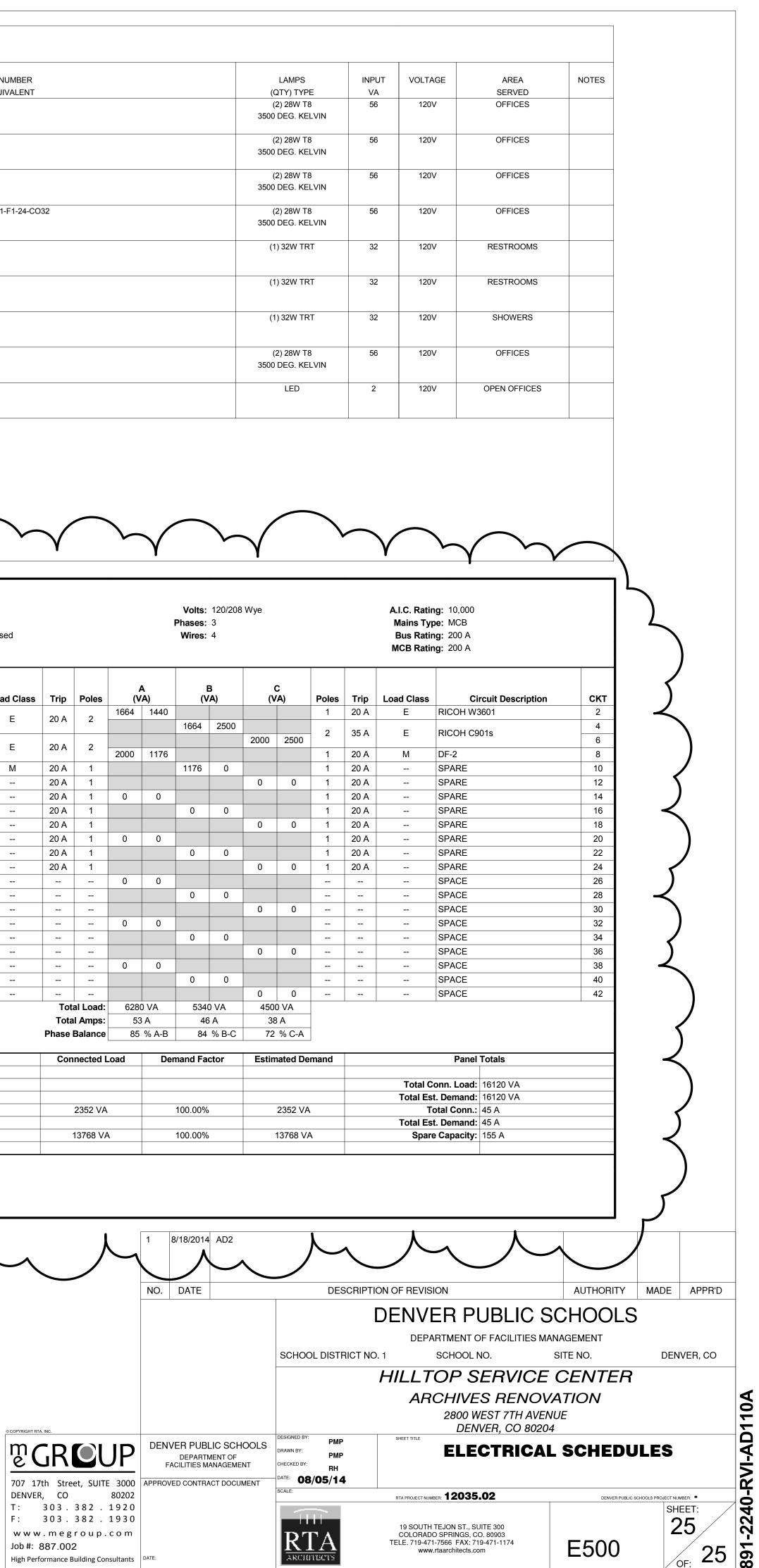
Connected Load	Demand Factor	Estimated Demand	Panel	Totals
			Total Conn. Load:	14918 VA
7940 VA	100.00%	7940 VA	Total Est. Demand:	15422 VA
2564 VA	100.00%	2564 VA	Total Conn.:	41 A
2014 VA	125.00%	2518 VA	Total Est. Demand:	43 A
2400 VA	100.00%	2400 VA	Spare Capacity:	57 A

1 20 A

Load Classification					
L	Lighting				
С	Continuous				
R	Receptacle				
М	Motor				
LM	Largest Motor				
E	Equipment				
A	Appliance				

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