

PREPARED FOR:  
  
HILLSBORO SCHOOL DISTRICT  
4901 SE Witch Hazel Rd, Hillsboro, OR  
97123



PROJECT NAME & ADDRESS:  
**CONS MGMT OFFICE TI**

HILLSBORO SCHOOL DISTRICT  
4901 SE Witch Hazel Rd  
Hillsboro, OR 97123



**KERRY W. VANDERZANDEN ARCHITECT, P.C.**  
13981 NW MAIN STREET  
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REVISIONS:

No.	Date	Description

PROJECT NUMBER: 180094  
DATE: 10-05-2018  
**PERMIT SUBMITTAL**  
SHEET TITLE:

**COVER SHEET**

SHEET NUMBER:

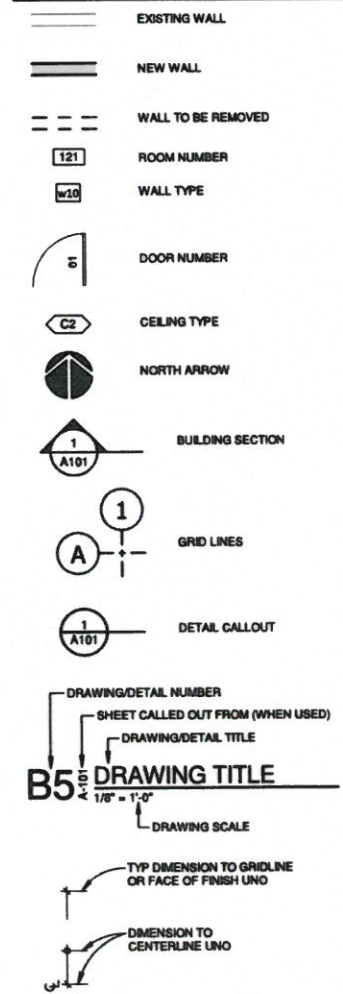
**A-001**

# CONS MGMT OFFICE TI HILLSBORO SCHOOL DISTRICT

## ABBREVIATIONS

AC ASPHALT CONCRETE	HSA HEADED STUD ANCHOR
AB ANCHOR BOLT	HSS HOLLOW STRUCTURAL SECTION
AC ABOVE COUNTER	HT HEIGHT
ACT ACOUSTIC CEILING TILE	ID INSIDE DIAMETER
ADDL ADDITIONAL	IN INCH
ADJ ADJACENT	INCL INCLUDED, INCLUDING
AFF ABOVE FINISHED FLOOR	INSUL INSULATED, INSULATION
ALUM ALUMINUM	INT INTERIOR
ANOD ANODIZED	JAN JANITOR
AOR ARCHITECT OF RECORD	JST JOINT
ARCH ARCHITECTURAL	JT JIP(S)
ASSY ASSEMBLY	K KIP(S)
ATR ALL THREAD ROD	KB KEYBOARD
BD BOARD	KD KNOCK DOWN
BLDG BUILDING	KSI KIPS PER SQUARE INCH
BLKG BLOCKING	L ANGLE
BM BEAM	LF LINEAR FOOT
BOF BOTTOM OF	LLH LONG LEG HORIZONTAL
BRG BEARING	LLV LONG LEG VERTICAL
BSMT BASEMENT	LONG LONGITUDINAL
BTM BOTTOM	LTG LIGHTING
BTWN BETWEEN	LVL LAMINATED VENEER LUMBER
BUR BUILT UP ROOF	LWC LIGHT WEIGHT CONCRETE
BW BOTH WAYS	MANUF MANUFACTURER
C CAMBER	MATL MATERIAL
CAB CABINET	MAX MAXIMUM
CB CATCH BASIN	MBS METAL BUILDING SUPPLIER
CH CEILING HEIGHT	MDF MEDIUM DENSITY FIBERBOARD
CIP CAST IN PLACE	MECH MECHANICAL
CJ CONTROL JOINT	MIN MINIMUM
CJP COMPLETE JOINT PENETRATION	MIR MIRROR
CL CENTER LINE	MKR BD MARKER BOARD
CLG CEILING	MTD MOUNTED
CLR CLEAR	MTL METAL
CMF CORRUGATED METAL PIPE	(N) NEW
CMTX CEMENTITIOUS	NA NOT APPLICABLE
CMU CONCRETE MASONRY UNIT	NIC NOT INCLUDED IN CONTRACT
COL COLUMN	NOM NOMINAL
COMP COMPACT, COMPACTED	NTE NOT TO EXCEED
CONC CONCRETE	NTS NOT TO SCALE
CONN CONNECTION	OC ON CENTER
CONT CONTINUOUS	OD OUTSIDE DIAMETER
CONTR CONTRACTOR	OH OVERHEAD
CPT CARPET	OPH OPPOSITE HAND
CT CERAMIC TILE	OPNG OPENING
CUST CUSTODIAL	OPP OPPOSITE
DBA DEFORMED BAR ANCHOR	OPT OPTIONAL
DBL DOUBLE	OWJ OPEN WEB JOIST
DEMO DEMOLISH, DEMOLITION	P LAM PLASTIC LAMINATE
DEPT DEPARTMENT	PAF POWER ACTUATED FASTENER
DF DRINKING FOUNTAIN	PEMB PRE-ENGINEERED METAL BUILDING
DFL DOUGLAS FIR-LARCH	PERP PERPENDICULAR
DA DIAMETER	PJP PARTIAL JOINT PENETRATION
DIAG DIAGONAL	PL PLATE
DM DIMENSION	PLBG PLUMBING
DISP DISPENSER, DISPOSAL	PSF POUNDS PER SQUARE FOOT
DIST DISTANCE	PSI POUNDS PER SQUARE INCH
DL DEAD LOAD	PT PRESSURE TREATED
DN DOWN	PFD PAPER TOWEL DISPENSER
DN DOOR	PWD PLYWOOD
DS DOWNSPOUT	QTY QUANTITY
DTL DETAIL	R RISER(S)
DW DISHWASHER	RAD RADIUS
DWG DRAWING	REC RECESSED
(E) EXISTING	REF REFERENCE
EA EACH	REINF REINFORCE, REINFORCEMENT
EF EACH FACE	REQD REQUIRED
EL ELEVATION	RESTD STEEL REINFORCEMENT, REINFORCING
ELEC ELECTRIC(AL)	REB REBAR
EN PANEL EDGE NAIL	REV REVISED, REVISION
ENGR ENGINEER	RO ROUGH OPENING
EOF EDGE OF	SAV STAIN & VARNISH
EOR ENGINEER OF RECORD	SC SLIP CRITICAL
EOS EDGE OF SLAB	SCD SEAT COVER DISPENSER
EQ EQUAL	SD SOAP DISPENSER
EQUIV EQUIVALENT	SF STOREFRONT, SQUARE FEET
ETR EXISTING TO REMAIN	SFNT STOREFRONT
EW EACH WAY	SHT SHEET
EX EXIT	SHTG SHEATHING
EXSTG EXISTING	SM SIMILAR
EXT EXTERIOR	SLDG SLIDING
FD FLOOR DRAIN	SMS SHEET METAL SCREW
FE FIRE EXTINGUISHER	SOG SLAB ON GRADE/GROUND
FEC FIRE EXTINGUISHER CABINET	SPKR SPEAKER
FIC FURNISHED & INSTALLED BY CONTRACTOR	SPRK SPRINKLER
FN FINISHED	SQ SQUARE
FIO FURNISHED & INSTALLED BY OWNER	SS STAINLESS STEEL
FLR FLOOR	STD STANDARD
FN FIELD NAIL	STL STEEL
FNDN FOUNDATION	STOR STORAGE
FOF FACE OF	SUSP SUSPENDED
FOIC FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	SV SHEET VINYL
FRP FIBERGLAS REINFORCED PLASTIC	T TREAD(S)
FRR FIRE-RESISTANCE RATED	T&B TOP & BOTTOM
FRITW FIRE RETARDANT TREATED WOOD	T&G TONGUE & GROOVE
FS FLAME SPREAD, FLOOR SINK	TEMP TEMPERED
FT FEET	TOP TOP OF
FTG FOOTING	TOPO TOPOGRAPHY
GA GAUGE	TPD TOILET PAPER DISPENSER
GALV GALVANIZED	TRANS TRANSVERSE, TRANSITION
GB GRAB BAR	TYP TYPICAL
GLB GLU-LAM BEAM	UNO UNLESS NOTED OTHERWISE
GRAN GRANULAR	VB VAPOR BARRIER
GWB GYPSUM WALL BOARD	VCT VINYL COMPOSITION TILE
HC HANDICAP	VERT VERTICAL
HGD HOT-DIP GALVANIZED	VIF VERIFY IN FIELD
HDR HEADER	W WITH
HDWR HARDWARE	WO WITHOUT
HF HEM-FIR	WC WATER CLOSET
HM HOLLOW METAL	WD WOOD
HORIZ HORIZONTAL	WDO WINDOW
HR HOUR	WF WIDE FLANGE
	WH WATER HEATER
	WWR WELDED WIRE REINFORCING

## SYMBOLS



## GENERAL REQUIREMENTS

- THESE ARE LIMITED DESIGN DRAWINGS PROVIDED FOR THE PURPOSE OF SECURING A BUILDING PERMIT.
- DRAWINGS ARE INTENDED TO ESTABLISH AND DESCRIBE MINIMUM STANDARDS FOR CODE COMPLIANCE AND TO DESCRIBE THE PROPOSED CONSTRUCTION IN SUFFICIENT DETAIL TO ALLOW PLAN REVIEW AND INSPECTION BY THE AUTHORITY HAVING JURISDICTION.
- DRAWINGS ARE NOT INTENDED TO BE USED AS A BASIS FOR ADMINISTERING A CONSTRUCTION CONTRACT.
- WHERE PRODUCTS OR MANUFACTURERS ARE REFERRED TO BY NAME IN THE DRAWINGS OR SPECIFICATIONS IT IS FOR DESCRIPTIVE PURPOSES AND TO ILLUSTRATE THE DESIGN INTENT. THESE PRODUCTS AND MANUFACTURERS HAVE NOT BEEN DESIGNED OR EVALUATED TO ENSURE COMPATIBILITY WITH OTHER PRODUCTS OR MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR EVALUATING AND DETERMINING COMPATIBILITY OF PRODUCTS AND SYSTEMS INSTALLED IN THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EVALUATING THE COMPATIBILITY OF VARIOUS PRODUCTS AND MATERIALS WITH RESPECT TO MANUFACTURERS WRITTEN INSTRUCTIONS FOR INSTALLATION AND WARRANTY REQUIREMENTS.
- WHERE WATERPROOFING DETAILS ARE PROVIDED, THEY ARE GENERAL IN NATURE AND SHOW INDUSTRY STANDARD MEANS OF INSTALLATION FOR TYPES OF PRODUCTS AND CONSTRUCTION INDICATED. THESE DETAILS MAY NOT BE APPLICABLE TO OTHER PRODUCT TYPES OR TO SIMILAR PRODUCTS BY OTHER MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR DETERMINING APPROPRIATE METHODS OF INSTALLATION BASED ON MANUFACTURERS WRITTEN INSTRUCTIONS AND COMPATIBILITY OF PARTS, MATERIALS, AND ASSEMBLIES OF RELATED COMPONENTS.
- WHEN ACCOMPANIED BY STRUCTURAL DRAWINGS PREPARED BY A REGISTERED ENGINEER, STRUCTURAL DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE.
- WARRANTY AND SPECIFICATIONS TO BE PROVIDED BY CONTRACTOR AS PART OF A PRE-NEGOTIATED AGREEMENT BETWEEN CONTRACTOR AND OWNER AND SHALL NOT BE LESS THAN THE MINIMUM REQUIREMENTS ESTABLISHED HEREIN.
- CONTRACTOR SHALL PROVIDE ELECTRICAL, MECHANICAL, PLUMBING, AND SPRINKLER DRAWINGS AND DETAILS AS REQUIRED FOR PERMITS.
- PLAN DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.

## PROJECT OVERVIEW

- PROJECT DESCRIPTION:**  
Minor tenant improvement to convert some warehouse space to open office space. New space complies for single means of egress based on occupancy load and common path. Two exits provided. Work includes new non load-bearing partitions, non-rated doors, suspended acoustical tile ceiling, and extend exterior concrete pad for new condenser unit.
- INTERIORS:**
- Metal stud framing and GWB or OSB typ at interior walls.
  - Ceilings are suspended grid. See ceiling plan sheet.
- FINISHES:**
- Painted GWB walls typ with resilient base in office areas. Painted GWB/OSB wall in storage areas.
  - New carpet in open office area to match adjacent existing carpet.
  - New acoustical tile ceiling in open office to match adjacent existing ceiling.
  - See General Finish Reqs on floor plan sheet for minimum requirements of scope and finishes.
- DOORS:**
- New interior non-rated hollow metal frames with plain door panels at office areas.
  - New interior non-rated hollow metal frame and door panel at storage areas.
  - See floor plan sheet for schedules and minimum requirements.
- SPRINKLERS:**
- Existing and proposed sprinkler head locations are shown on mechanical ceiling plan. Actual new head locations should be determined by a qualified sprinkler system designer.
- ELECTRICAL:**
- Existing and proposed receptacle and lighting locations are shown on electrical ceiling plan.
- HVAC:**
- Existing and proposed HVAC supply and return locations are shown on mechanical ceiling plan.
- DEFERRED SUBMITTALS:**
- Sprinkler work (and design) is by others. If plan review is required it will be a deferred submittal.
  - Fire alarm permitting and design is by others and is not included as part of this submittal.

## BLDG CODE DATA

**APPLICABLE CODES:**  
2014 Oregon Structural Specialty Code  
2014 Oregon Mechanical Specialty Code  
2014 Oregon Energy Efficiency Specialty Code  
2014 Oregon Fire Code  
2017 Oregon Electrical Specialty Code

**OCCUPANCY CLASSIFICATIONS:**  
S-1 Storage Areas  
B Office Areas

**CONSTRUCTION TYPE:** III

**FULLY FINISHED:** Yes

**BLDG AREA:** 38,280 sf (No change)

**BLDG HEIGHT:** 28 feet (1-story) (No change)

**BLDG & OCCUPANCY SEPARATIONS:**  
No change in building or occupancy separations.

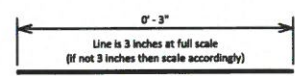
**FIRE ALARM:**  
Occupant notification appliances required throughout and shall be activated by sprinkler waterflow. No changes proposed.

**PROPERTY:**  
Project Address: 4901 SE Witch Hazel Rd  
Hillsboro, OR 97123  
Tax Map & Lot: 1S209AD01900  
Lot Size: 3.60 acres  
Zone: I-G



VICINITY MAP





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REVISIONS:

No.	Date	Description

PROJECT NUMBER: 18094  
DATE: 10-05-2018

PERMIT SUBMITTAL  
SHEET TITLE:

FLOOR PLAN

SHEET NUMBER:

A-101

### DOOR SCHEDULE

MARK	SIZE	WIDTH	HEIGHT	DOOR		FRAME		HARDWARE				MARK	REMARKS	
				PANEL TYPE	MATL	FINISH	TYPE	FINISH	CLOSER	SILENCERS	STOP CLOSER			CYLINDER LOCK
01	36" x 84"	3'-0"	7'-0"	A	HM	PT	HM	PT	YES	YES	WALL	CLASSROOM LOCK	01	
02	48" x 84"	4'-0"	7'-0"	A	SCW	HPDL	HM	PT	-	YES	WALL	PASSAGE	02	
03	36" x 84"	3'-0"	7'-0"	A	SCW	HPDL	HM	PT	-	YES	WALL	ENTRANCE LOCK	03	

### DOOR & HARDWARE REQS

- PROVIDE HARDWARE ITEMS WHERE SCHEDULE INDICATES "YES"; SINGLE DASH OR BLANK CELL MEANS DO NOT PROVIDE
- PANEL THICKNESS: 1 3/4" UNO
- ALL DOORS TO BE OPERABLE FROM EGRESS SIDE WITH ONE OPERATION TO UNLATCH DOOR, SLB MAX AT LEVER HANDLES

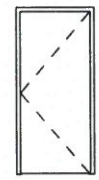
### LATCH FUNCTIONS

- CLASSROOM - OUTSIDE LEVER LOCKED AND UNLOCKED BY KEY. LOCK INSIDE LEVER ALWAYS UNLOCKED.
- ENTRANCE LOCK - TURN/PUSH BUTTON LOCKS OUTSIDE LEVER UNTIL UNLOCKED BY KEY OR UNTIL BUTTON IS MANUALLY UNLOCKED. ALWAYS OPERABLE FROM EGRESS SIDE.
- PASSAGE - BOTH LEVERS ALWAYS UNLOCKED.

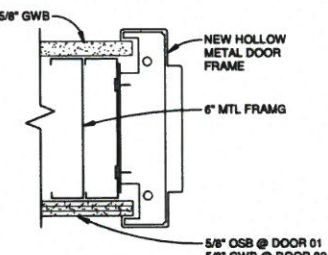
### ABBREVIATIONS

- HM - PANEL: HOLLOW METAL 18 GA; FRAME: HOLLOW METAL 16 GA WELDED
- HPDL - HIGH PRESSURE DECORATIVE LAMINATE BONDED TO SOLID CORE PANEL
- MANUF - MANUFACTURER'S STANDARD
- PT - PAINTED
- SCW - SOLID CORE PANEL

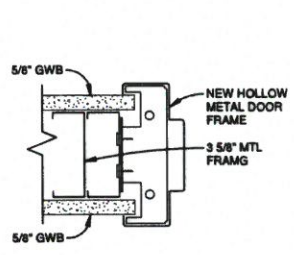
### DOOR PANEL TYPES



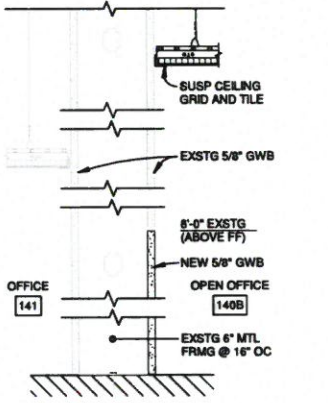
A FLUSH PANEL



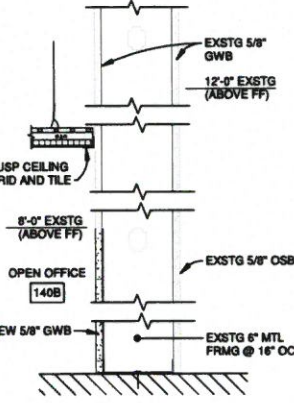
7 JAMB HM  
3" = 1'-0"



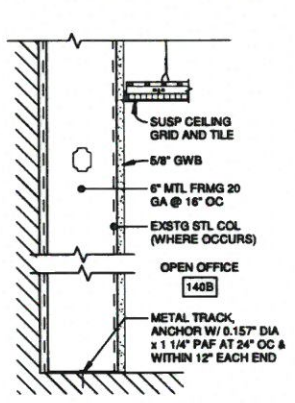
8 JAMB HM  
3" = 1'-0"



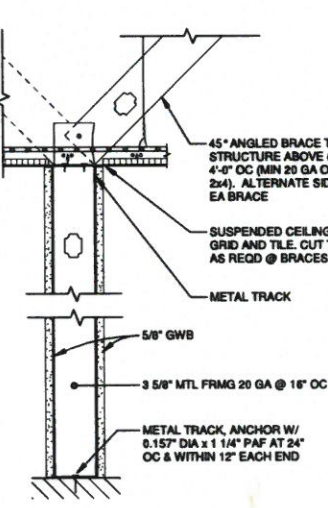
4 WALL TYPE - w-3  
1 1/2" = 1'-0"



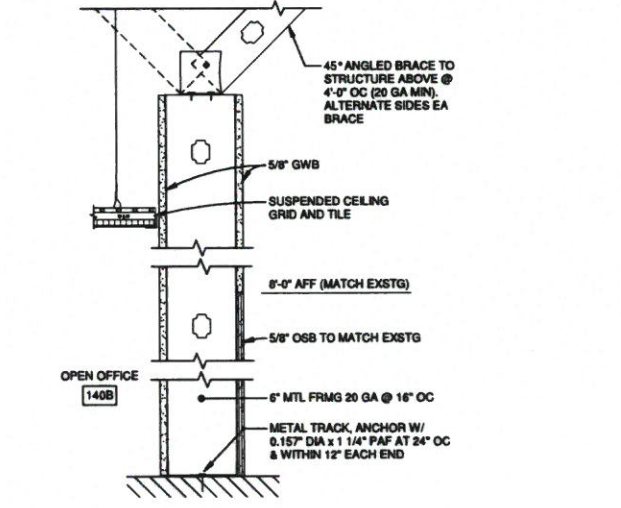
5 WALL TYPE - w-4  
1 1/2" = 1'-0"



6 WALL TYPE - w-3  
1 1/2" = 1'-0"



2 WALL TYPE - w-1  
1 1/2" = 1'-0"



3 WALL TYPE - w-2  
1 1/2" = 1'-0"

### GENERAL NOTES

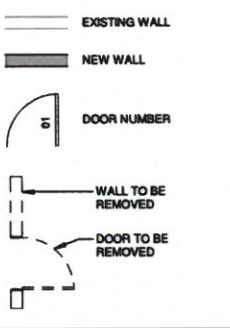
- ALL DIMENSIONS TO EXSTG COMPONENTS ARE ± 3".
- PATCH WALLS, FLOORS, CEILINGS AND FINISHES AS REQD AT ALL AREAS OF DEMOLITION WORK.
- CONFIRM EXTENT OF DEMOLITION W/ NEW DRAWINGS AND DETAILS.
- PAINT ALL WALLS WITHIN AREA OF WORK U.N.O.
- PROVIDE INDEPENDENT LIGHT SWITCHING FOR EACH ROOM.
- NEW T-BAR & CEILING TILE WHERE NOTED - SEE CEILING PLANS.
- PROVIDE 1 FT CANDLE MIN LIGHTING AT ALL WALKING SURFACES AS REQD BY CODE.
- LOCATE FIRE SPRINKLER HEADS AS REQD FOR NEW WORK. FINAL LOCATIONS BY SPRINKLER CONSULTANT.
- FIELD VERIFY EXSTG OSB PANEL THICKNESS PRIOR TO ORDERING NEW GWB PANELS (DEPTH TO MATCH EXSTG GWB).

### FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	WALL FINISH	CEILING	CEILING HEIGHT
140	GEN. STORAGE	ETR	ETR U.N.O.	PAINT NEW GWB & OSB	ETR	ETR
140B	OPEN OFFICE	CARPET	4" RESILIENT BASE	PAINT ALL GWB	ACT	11'
141	OFFICE	ETR	ETR U.N.O.	PAINT NEW GWB	ETR	ETR
141A	OFFICE	ETR	4" RESILIENT BASE	PAINT NEW GWB	ETR	ETR

NOTE: SEE ELEVATIONS FOR ADDITIONAL INFORMATION

### SYMBOL LEGEND



### WALL SYMBOL LEGEND

NOTE: WHERE CONTIGUOUS WALL CONSTRUCTION IS OF THE SAME TYPE, INDIVIDUAL WALL SEGMENTS MAY NOT BE TAGGED.



WALL HEIGHT CODES (AS APPLIES, ALL CODES MAY NOT BE USED)

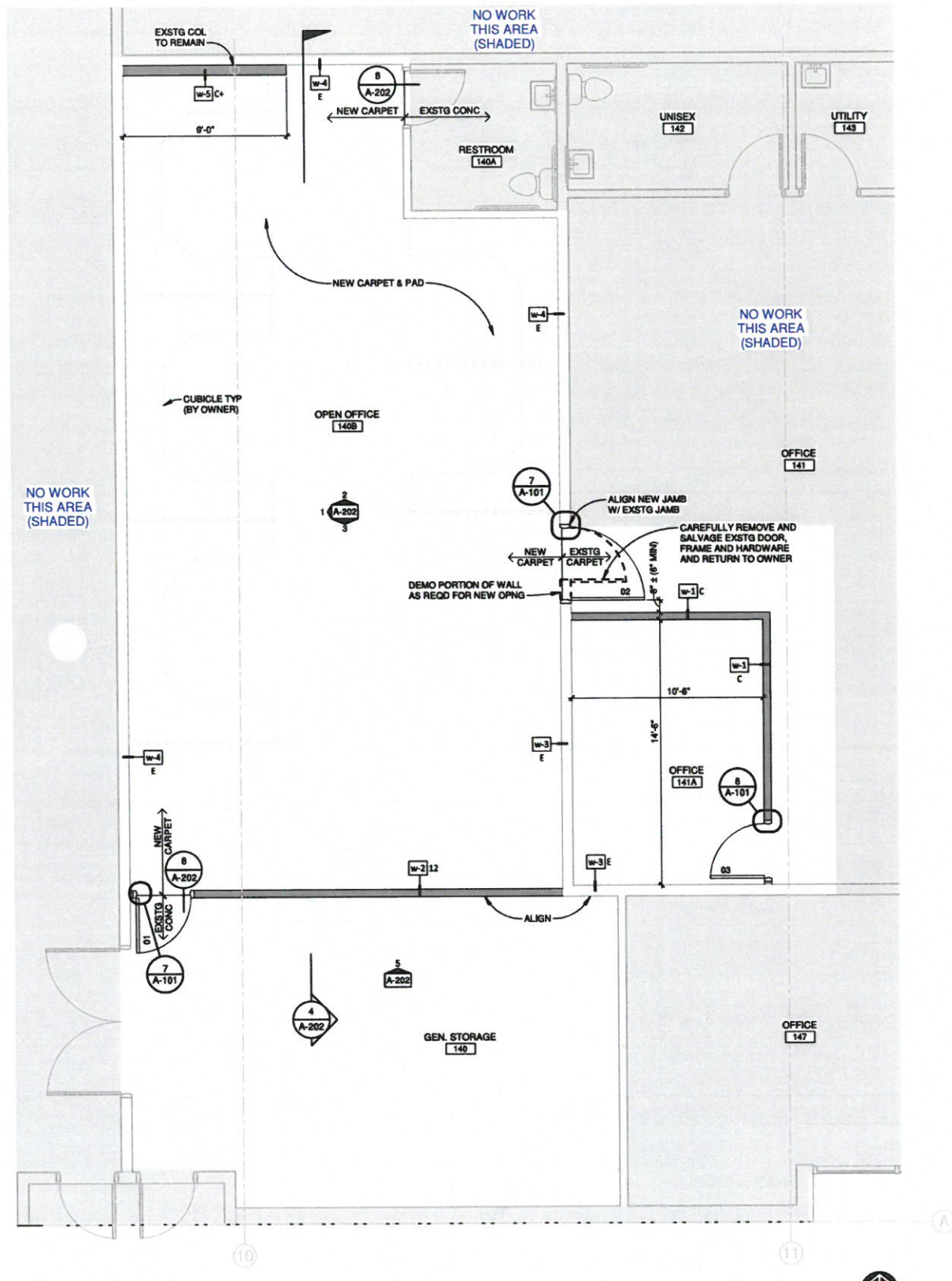
F = FULL HEIGHT TO STRUCTURE ABOVE. PROVIDE 3/4" DEFLECTION AT FLOOR OR ROOF STRUCTURE ABOVE UNO. IF USED, ASTERISK (\*) INDICATES GWB NEED ONLY EXTEND 6" ABOVE HIGHEST ADJACENT CEILING SYSTEM.

C = CEILING - FRAME WALL UP TO CEILING ABOVE. PROVIDE INDEPENDENT DIAGONAL BRACING TO STRUCTURE ABOVE AT 4'-0" OC (ALTERNATING SIDES) AT SUSPENDED CEILING SYSTEMS.

C\* = CEILING - EXTEND WALL 6" ABOVE HIGHEST ADJACENT CEILING SYSTEM. DIAGONAL BRACE TO STRUCTURE ABOVE AT 4'-0" OC (ALTERNATING SIDES).

# (NUMERIC) = NOMINAL WALL HEIGHT IN FEET. BRACE TO STRUCTURE ABOVE AT 4'-0" OC (ALTERNATING SIDES) UNLESS NOTED OTHERWISE

E = EXISTING WALL TO REMAIN



1 FLOOR PLAN  
1/4" = 1'-0"

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0" = 3"  
Line is 3 inches at full scale  
(if not 3 inches then scale accordingly)

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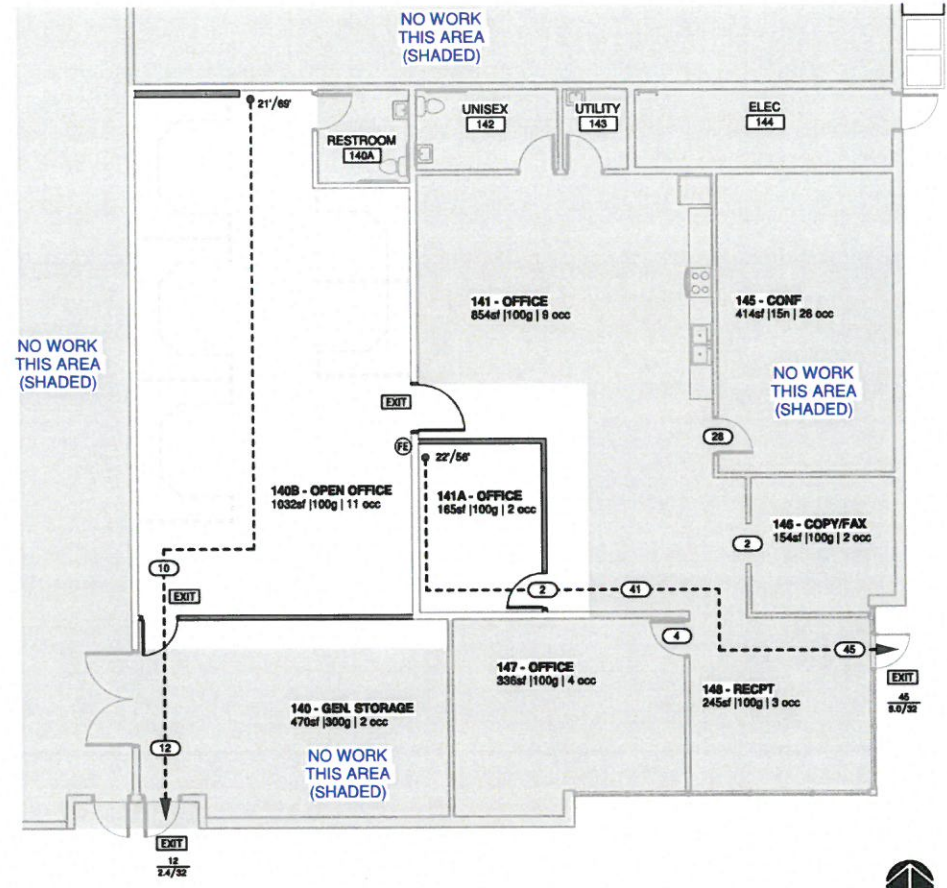
PERMIT SUBMITTAL

SHEET TITLE:

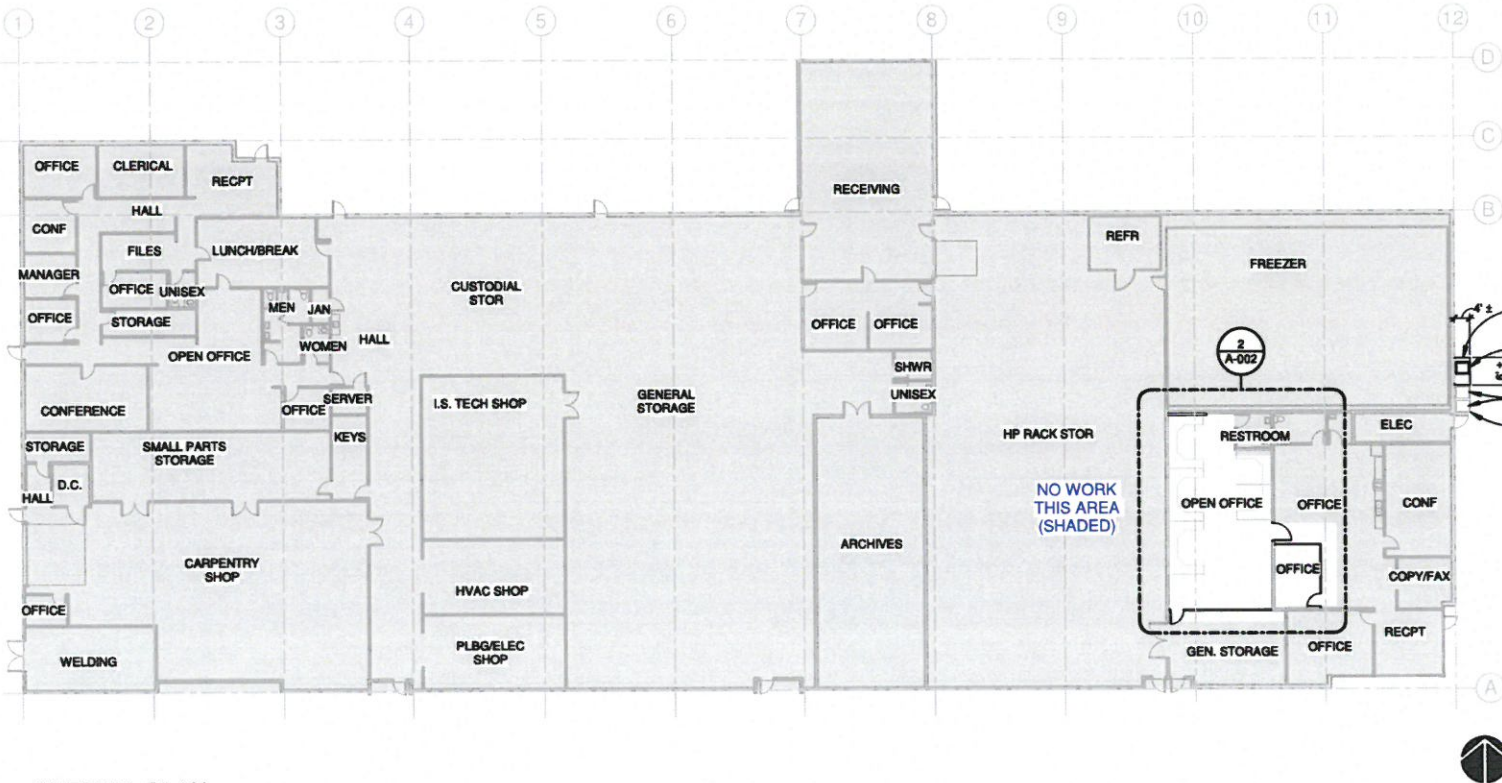
FIRE RATG & EGRESS PLANS

SHEET NUMBER:

A-002



2 EGRESS PLAN  
1/8" = 1'-0"



1 OVERALL PLAN  
3/8" = 1'-0"

**EGRESS PLAN LEGEND**

**EGRESS REQS (NON-SPRINKLERED BLDG):**

COMMON PATH  
● B & S-1: 100'

EXIT ACCESS TRAVEL DISTANCE  
● B: 300'  
● S-1: 250'

SUM OF ALL OCCUPANT LOADS TO THIS POINT  
12  
24/32  
REQD EGRESS WIDTH FOR DOORS CALCULATED AT 5.7' PER OCCUPANT

EXIT WIDTH (INCHES) REQD / PROVIDED

ROOM NAME & NUMBER  
OCCUPANCY (IF USED)

101 - OFFICE (B)  
500sf | 100g | 5 occ

# OF OCCUPANTS  
OCCUPANT LOAD FACTOR (p=(OCCS) / (A-RT))  
AREA OF ROOM OR SPACE

EGRESS PATH

COMMON PATH OF TRAVEL

COMMON PATH OF EGRESS TRAVEL

75/100'

EXIT ACCESS TRAVEL DISTANCE

600 CUMULATIVE OCCUPANT LOAD TO THIS POINT

EXIT INTERNALLY ILLUMINATED EXIT SIGN

FE 2A 10BC FIRE EXTINGUISHER

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GENERAL REQUIREMENTS

00 00 00 - PROJECT SPECIFIC PRODUCT NOTES
Also see Project Specific Product Notes. When those requirements conflict with the requirements below, Project Notes shall take precedence.

01 00 00 - GENERAL REQUIREMENTS

- A. When accompanied by structural drawings and specifications prepared by a registered Engineer, where those requirements conflict with the requirements below, structural drawings and specifications shall take precedence.
B. When accompanied by specifications prepared for this project and bound within a Project Manual, or issued by Addendum, where those requirements conflict with the requirements below, the Project Manual requirements shall take precedence.
C. Conform to minimum standards of current edition of the International Building Code as amended by state and local jurisdictions and all other applicable construction codes, local ordinances, and regulations.
D. Coordinate with local governing agencies and with serving utilities for all permits, regulations for work on public property and for utility services. Water service backflow devices must be tested by certified tester for all applications.
E. The drawings and specifications represent the finished structure. The Contractor shall review and be fully familiarized with all Drawings and Specifications prior to starting the Work. Confusing, obscured or vague information, or unresolvable dimensions, shall be brought to the attention of the project Architect immediately. Larger scale detail dimensions override smaller. Do not scale drawings.
F. Contractor shall investigate existing conditions and report discrepancies or potential problems to project Architect immediately.
G. The Contractor is responsible for construction methods and safeguards during construction (IBC Chapter 33). The Contractor shall determine where and how temporary precautionary measures shall be used and to inspect same in the field. Construction loads upon the structure shall not be in excess of the design loads (50 psf floor, 25 psf roof unless otherwise indicated).
H. Special Inspections: The Contractor shall provide notice as required by Structural Drawings and Specifications for scheduling of special inspections. Where not otherwise indicated, provide 5 business days notice for all special inspections. The Owner will provide required special inspections by a qualified testing agency. Test reports will be reviewed by the Engineer and approved by the building official. Re-inspections caused by initial failure will be provided by the Contractor. Contractor shall bear any costs of such re-inspections.
I. Schedule structural observations by Engineer a minimum of 7 days prior.
J. Provide new commercial quality products throughout, except where noted otherwise. All manufactured products shall be installed, cleaned, and commissioned in accordance with manufacturer's printed instructions.
K. Dispose of all excavation, demolition, excess, and waste materials off site unless otherwise noted. Dispose of hazardous materials in accordance with disposal requirements of authorities having jurisdiction.
L. Contractor requests for redesign of the work shall be performed at contractor's expense, including re-engineering and redesign of related systems and assemblies. Contractor shall maintain schedule and complete the project within the time required by the Contract Documents including the time required for redesign.
M. Cut, fit, or patch where required to complete the work or to make its parts fit together properly. Restore these areas to the condition existing prior to cutting, fitting, and patching.
N. Contractor shall coordinate delivery, unloading, and storage of products and materials. Store products and materials according to manufacturer's printed instructions and protect from damage by the elements. Maintain temperature and humidity within ranges specified by manufacturer's printed instructions.
O. Where specified items, products, or materials include the words "or equivalent," "or approved equivalent," "or equivalent by other manufacturer," "or equal," or "as approved by Architect" submit for Architect approval according to submittal requirements and procedures.
P. Substitutions: Requests for alternative products, equipment, materials, or manufacturers or other requirements for items that do not include an example of equivalency language as noted above, must be approved by substitution request prior to award of contract. Substitutions after award of contract are not permitted.
Q. Submit items required for review by Architect or Engineer on forms provided, or approved by, Architect or Engineer (as applies). Submit the number of copies required by Contractor plus 2. Allow sufficient time for review, return, resubmittal and second review. Allow 5 business days minimum for each review.
R. At final cleanup: Wash and polish all hard surface items, clean all dust and debris from all accessible surfaces, vacuum carpets, sweep and damp mop hard surface floors, clean lamp lenses, install new filters in forced air duct work, clear exterior debris, rake level finish graded earthwork, and broom clean exterior decks or slabs.

02 00 00 - EXISTING CONDITIONS

- A. Verify locations of all underground utilities. Call Utilities Notification Center 1 (800) 332-2344 before any groundwork.
B. Consult a geotechnical engineer to establish conditions, materials and procedures for wet season work.

03 00 00 - CONCRETE

- A. INSTALLATION: Unless indicated otherwise, mixing, placing, and curing of concrete shall be in accordance with the American Concrete Institute ACI 318 and IBC Section 1903, ready mix concrete per ASTM C94 Standard Specifications for Ready-Mixed Concrete with minimum compressive strength of 3000 psi at 28 days (4000 at tilt-up wall panels). Water/Cement ratio of 0.45 maximum, except footing shall be 0.50 maximum. Provide 5% (+/- 1%) air entrainment in exterior concrete slabs. Use non-chlorine based accelerators only. Provide adequate drainage at retaining structures, (foundation walls, retaining walls and similar).
B. STANDARDS: Conform to ACI 301, ACI 315 and ACI 318 (moderate temperature), ACI 305R (hot weather), ACI 306R (cold weather) and current state building code requirements.
C. VAPOR BARRIER: If not otherwise indicated, provide 10 mil fabric reinforced plastic vapor barrier, conforming to ASTM E 1745, (Stego Wrap or equivalent), directly under interior slabs. Seal penetrations and 6" lapped edges with manufacturer's sealing tape.
D. SLAB REINFORCEMENT: If not otherwise indicated, minimum slab reinforcement shall be mesh or reinforcing steel as follows:
1. Mesh reinforcing: WWF 6x6-W2.9xW2.9 conforming to ASTM A185. Lap sides and ends of mesh reinforcement not less than one mesh plus 2 inches.
2. Bar reinforcing: #3 Grade 60 rebar at 18" centers each way. Lap bars 18" minimum. Cut alternate bars at control joints.
E. REINFORCING STEEL
1. Place reinforcing steel in accordance with CRSI "Manual of Standard Practice" and ACI 315, latest edition. Lap bars as indicated. Secure against displacement.

- 2. Bars: Deformed steel bars of sizes indicated conforming to ASTM A615, grade 60, clean and free of loose rust or other condition that reduces bond. Rebar for welding per ASTM A706.
3. Lapped bar splice length minimums (unless noted otherwise): 55 diameters at straight splices, 40 diameters at corners.
4. Frame openings with at least 2 bars at sides, above and below and extending 2'-6" beyond edges of openings. Request special instructions for special conditions.
5. Provide corner bars same size and spacings as horizontal. Bend reinforcing cold. Do not weld.

F. CONCRETE ACCESSORIES AND CEMENTICIOUS PRODUCTS.

- 1. Provide anchor bolts cast into concrete conforming to ASTM A307, minimum, or other as indicated. Provide hoop ties, thrust plates or other accessories as indicated or required.
2. Non-shrink grout to conform to ASTM A-1107, 5000 psi at 28 days. Install under base plates after column is erected.
3. Tilt-up panel pick-up attachments design by others. Design shall be by Engineer licensed in the state of the project.

G. FORMING CONCRETE

- 1. Form to provide plumb, level, and square shapes unless noted otherwise. Form to sizes, locations, and grades shown on drawings. Provide chamfer or fillet inserts at all edges above slab line.
2. Ensure that reinforcement is protected by 2" of concrete cover at formed surfaces and 3" at earth. Center slab reinforcing by concrete dobles.
3. Place construction and contraction joints as indicated on drawings.

H. PLACING & CURING CONCRETE.

- 1. Place concrete in conformance to ACI 318 and IBC Section 1903, within temperature range not below 50 degrees F and not above 85 degrees F at time of pour. In freezing weather, provide suitable means to maintain the concrete at a temperature not lower than 50 degrees F for three days.
2. Place construction joints when pour is interrupted, as required by ACI 318.
3. Locate contraction joints in reinforced slabs every 20'-0" (max) each direction. For unreinforced slabs, contraction joints shall be spaced at 36 times slab thickness (maximum). Fill joints with sealant (unless noted otherwise).
4. Construction and contraction joint sealant: At areas exposed to truck or forklift traffic, fill with Sure Fil J52 or equivalent (Shore A Hardness 80 minimum). All other areas fill with Sikaflex-1c SL (or approved equivalent).
5. Wood float and steel trowel all interior slabs monolithically, free of depressions or projections. Surface tolerance shall be +/- 1/4" in 10 feet.

I. EXTERIOR WALKS AND SLABS. (If indicated)

- 1. Concrete sidewalks, aprons, and curbs in Right-of-Way per current applicable governmental ordinances.
2. Texture walkway locations indicated for accessible traffic warning according to requirements of authority having jurisdiction.
3. Provide preformed exterior expansion joint, conforming to ASTM D1751 for asphalt saturated fiberboard, 3/8" thick minimum, length and depth sufficient to fully separate the contact surfaces, at 20 foot maximum spacing and where slab abuts another slab, isolated slab, or wall.
4. Unless noted otherwise, pitch exposed slab surfaces at 2% slope for drainage and provide medium broom non-slip surfaces in cross direction of travel.
5. Provide tooled crack control joints at 5 foot centers each way maximum.
6. Concrete testing is not required for non-structural fully supported sitework concrete (walkways).

05 00 00 - METALS

A. REFERENCES (Latest Version): ASTM International (ASTM) A36, A53, A153, A307, A325, A500, A653, A992, C881

- B. Rectangular HSS to conform to ASTM A500, Grade B, Fy = 46ksi. Round HSS (tube) to conform to ASTM A500, Grade B, Fy = 42ksi. Structural pipe to conform to ASTM A53 Type E or S, Fy = 35ksi, Wide Flange to ASTM A992, Fy=50ksi, other sections, plates and bars ASTM A36 Fy - 36ksi.
C. Machine Bolts: Conform to ASTM A325. Tighten all bolts in steel per AISC specifications for strength rating. Galvanized coatings shall conform to ASTM A153.
D. Anchor bolts for embedment in concrete fabricated with a bent leg: Conform to ASTM A307

F. All field welds, shop welds, welding inspections, and welder qualifications to comply with specifications in IBC Sections 2205, 2206, 2207, 2209 and 2210. Welds shall be special inspected per IBC Section 1704.

G. Structural steel items not intended for embedment in masonry or concrete shall be prime painted or galvanized. Zinc galvanized coatings on iron and steel products shall conform to ASTM A123.

H. Fabricated items indicated for hot dip galvanization shall be galvanized after all fabrication is completed.

I. Repair galvanized coatings per ASTM A780.

J. Light gauge structural metal framing to comply with the latest edition of Steel Stud Manufacturers Association published load and span tables and "Cold Formed Steel Details."

- 1. All structural light gauge steel members shall be mill certified prime steel meeting ASTM A653 structural quality; Grade 33 for steels thinner than 16 gage (54 mils) and Grade 50 for steels 16 gage (54 mils) and thicker. Grade 33 steel shall have a fy = 33000 psi and fu = 45000 psi. Grade 50 steel shall have a fy =50000 psi and fu = 60000 psi.
2. All light gauge steel shall be galvanized per ASTM A653 with minimum coating of G60 for exterior and/or load bearing members and G40 for interior non-load bearing members
3. Use web stiffeners at concentrated loads perpendicular to unit web and where indicated.
4. Align roof or floor joists over load bearing studs, unless otherwise indicated.
5. Use #6 (minimum) truss head fasteners for all concealed light gauge metal attachments.
6. Do not use self drilling fasteners in units less than 20 gage.
K. All open web steel girders and joists to conform to the requirements of IBC Section 2206 and the Steel Joist Institute specifications CI-1.0, K-1.1, LH/DLH-1.1, and JG-1.1 as applies.
L. Provide dielectric insulation for dissimilar metals in contact.
M. Submit for review reproducible shop drawings for all vendor designed metal fabrications.
N. Bolt in epoxy adhesives per ASTM C881.
O. All exposed structural steel to have one finish coat of rust inhibiting paint. Color by Owner.
P. WELDING:

- 1. All field welds, shop welds, welding inspections, and welder qualifications to comply with specifications in IBC Sections 2205, 2206, 2207, 2209 and 2210. Welds shall be special inspected per IBC Section 1704.
2. All welding shall conform to American Welding Society (AWS) D1.1 using E70xx electrodes.
3. Weld lengths shown are effective as specified per the specifications of the American Institute of Steel Construction (AISC).
4. Where weld lengths are not shown, the weld shall be full length of members being joined.
5. All butt welds shall be full penetration welds unless noted otherwise on structural drawings.
6. Welding shall be performed by AWS certified welders for weld types specified.
7. All welds shall receive the same finish coat as the member being welded.

08 00 00 - OPENINGS

- A. Install packaged unit doors, windows and skylights per manufacturers printed instructions and AAMA/WDMA/CSA 101/1.S.2/A440, latest editions with all updates. Include sealant bedding joint at nail flange.
C. Provide window, heat envelope windows with low 'e' coated, tinted, insulating glass, SHGC < 0.40, U < 0.46 at metal frames, U < 0.35 at all others.
D. If not otherwise indicated, provide ANSI/BHMA light commercial (Grade 2) hardware minimum with return bend lever handled type lock and latchesets. All locksets to have "always exit" function, except where deadbolts are indicated.
E. Sectional doors at heated spaces shall be insulated (R-5 Minimum).
H. Provide products, components, and attachments sufficient to withstand stated wind load.
I. Mount operable window hardware within accessible reach ranges according to ICC/ANSI A117.1-2003. Operable door hardware shall be located not lower than 34 inches and not higher than 48 inches above finished floor.
J. Doors with closers must be operable with a maximum 15 lb unlatch force, 30 lb to initiate movement and 15 lb to complete opening.
K. Provide metal door frames with welded miter joints and removable spreader bar unless indicated as 'KD.'
M. Deadbolts are not permitted unless specifically indicated.
N. Locate doors 4" from adjacent perpendicular wall to hinge plate unless noted otherwise.

09 00 00 - FINISHES

- A. Unless otherwise indicated provide 5/8" Type 'X' gypsum wallboard for all interior work. Use exterior gypsum sheathing or equivalent moisture resistant products in exterior or wet-prone areas.
B. Provide at least 2 typical anchors in any section of sill plate or stud wall bottom track.
C. Where non-load bearing interior partitions are not otherwise specified or detailed on architectural or structural drawings, framing shall comply with IBC Chapter 22 Section 2211 for steel framing and Chapter 23 Section 2308 for wood framing.
D. Provide 6 inch high integral cove base in toilet, shower or bath rooms scheduled for resilient sheet flooring.
E. Provide water resistant gypsum wallboard and impermeable finishes (0.06" FRP or G.P. plastic laminate) at fixture wall and walls adjacent to lavatories, water closets or urinals in public or multi-occupant toilet or bath rooms.
F. Seal all interior concrete slabs not scheduled for other finish. Fill sawcut control joints with sealant.
G. Install "heavy duty" ceiling tee grid suspension system per ASTM G635 and G636 for seismic restraint. Provide 2 inch wall angle at perimeter. Attach grid at 2 adjacent walls, maintaining 3/4 inch edge clearance of acoustic panels at opposite walls. Provide seismic separation at ceiling areas over 2500 SF.
H. Provide resilient floor finish transition strips, typical. Locate at centerline of doors and where indicated.
I. Provide finished resilient base in roll stock, groove and bend around corners.
J. Interior wall and ceiling finish materials shall be classified according to ASTM E84 and shall meet the limits of IBC Table 803.9

11 00 00 - EQUIPMENT

- A. Provide bases, mounting pads and openings as required for proper installation. Maintain the integrity of weather protection, structural, or fire protection elements.

21 00 00 - FIRE SUPPRESSION

- A. Fire protection piping and components to comply with national, state and local codes throughout.
B. Provide a complete wet fire sprinkler system (dry system at nonconditioned spaces), as indicated, for occupancy in accordance with NFPA 13 and local fire marshal's requirements. Submit copy of permit drawings with head locations to Architect for review.
C. Provide freeze protection for piping in areas exterior of building insulation envelope.

23 00 00 - HEATING, VENTILATING, AND AIR CONDITIONING

- A. Conform to all applicable codes, laws and ordinances. Brace ducts per ANSI/SMACNA Seismic Support Manuals.
B. Comply with current state building code for required outside air ventilation design criteria.
C. Vent all exhaust fans to exterior with appropriate weatherproof hoods.
D. Provide independent ventilation/exhaust fan and ductwork for elevator machine rooms, as applicable.
E. Submit intended location of exterior HVAC condensers, wall louvers, and vents to Architect for review.
F. Mount thermostats and other control devices between 15 and 48 inches above floor line at areas free of obstructions, 48 inch maximum height at obstructions up to 20 inches deep, 44 inch maximum height at obstructions up to 25 inches deep. Do not install over obstructions greater than 25 inches deep.
G. Provide Oregon Non-residential Energy Code Calculations on applicable form sheets.

26 00 00 - ELECTRICAL

- A. Electrical lighting and device plans are diagrammatic with intent to show only point of use equipment and control requirements. System design by others. Coordinate installation of telephone, signal, computer, control and other similar wiring with Owner.
B. Install in accordance with current Oregon Electrical Specialty Code and requirements of electrical utility.

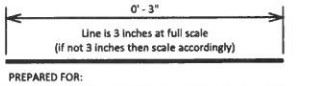
- C. Electrical materials and equipment to be U.L. approved and installed by licensed electrician.
D. Design and provide service and distribution system to equipment indicated on electrical schematic plan and to mechanical contractor's heating, ventilating and air conditioning system. Submit intended location of exterior panels to Architect for review. Panels will not be allowed on the 2 most prominent building elevations.
E. Before final payment from Owner, systems shall be tested for required operation, and corrections made as required, by qualified contractor. Provide all systems and devices free of fault.
F. Mount switches at 48" above floor to center, outlets at 15" to center, unless otherwise indicated.
G. Light fixtures in contact with insulation to be insulation coverage (IC) rated, and sealed airtight to gypsum wall board or other finish.
H. Provide manual switch lighting control for each 2000 square feet (maximum) within any given office space enclosed by full height partitions, unless noted otherwise.
I. Provide programmable automatic shut-off relay controls, overriding local switching, in interior office rooms larger than 2000 sf, PCI 'Control Keeper' or approved equivalent.
J. Provide photoelectric outdoor lighting timer control on all exterior lighting circuits, unless otherwise indicated.
K. Provide signs reading "AREA OF REFUGE" at doors that provide access to adjacent Areas of Refuge per IBC Section 1007.6. Signs shall be illuminated at areas required by Section 1011 to have exit signs. Provide 2-way communication at Areas of Refuge to meet Sections 1007.8.1 and 1007.8.2, Housing Devices Inc. ADA 100 or approved equivalent.
L. Provide emergency egress lighting where indicated. System shall provide required lighting for 90 minutes minimum.
M. Provide 1 foot-candle minimum emergency egress light level in exitways.
N. Where exterior egress lighting is indicated or required by code, provide 1 foot-candle minimum light level within 50' of exterior wall with light fixtures equipped with battery back-up and trickle charger, sufficient for 90 minute emergency operation. Emergency egress lighting to comply with IBC Chapter 10 Section 1006.

31 00 00 - EARTHWORK

- A. Excavate to dimensions, lines, grades and minimum depths as indicated.
B. Verify conditions at the footings and make any corrections to place them on firm native soil, or structural fill compacted to 95% of maximum density of optimum moisture content per ASTM D698 (Standard Proctor) or 90% of maximum density per ASTM D1557 (Modified Proctor). The compaction shall be verified by an independent testing agency qualified in the state of jurisdiction. Fill for depths greater than 12 inches shall comply with provisions of an approved geotechnical report. Assumed soil bearing pressure 1500 pounds per square foot (psf) unless noted otherwise.
C. Should bearing surfaces be softened by water or frost, re-excavate to solid bearing and back fill to indicated depth with 1,500 psi (Min.) concrete.
D. Compacted fill under slabs on grade: Granular fill graded from 1/4" to 3/4", or well graded fine gravel and sand with a maximum of 3 percent passing No. 200 mesh. Compact to 95% of maximum density by AASHTO Standard T-99, (or 92% by Standard T-180, as applicable), in maximum 6" lifts. Minimum 6" base course on good soil.
E. Backfill trenches with clean dry earth. Backfill shall be free of debris, decayable matter, and rocks exceeding 2 inches in diameter. Compact to 95% of maximum density by AASHTO Standard T-99, (or 92% by Standard T-180), in maximum 6" lifts.
F. Remove debris and decayable matter from areas to be backfilled, prior to backfilling. Back fill trenches after above-grade concrete walls have been completed and are thoroughly set.
G. Install under slab fill evenly after footings and foundations have been placed and cured.
H. Back fill against concrete walls shall be placed only after concrete has reached its specified 28 day strength. Where a structural floor system is designed to provide support to the foundation walls, do not backfill until floor is fully constructed, anchored, and capable of providing the required support.
I. Finish grade shall be true and evenly sloped away from the structure: 5% for a minimum of 10'-0"

32 90 00 - PLANTINGS

- A. All plant materials delivered to the site must meet American Nursery and Landscape Association ANSI Z60.1 (current edition) standards..
B. Embed plants vertically in hole sized for prepared plant mix of 6" all around root ball.
C. Brace all trees with (3) guy wires from 2x2x6" ground stakes to plant protector at 120 degrees.
D. Space plants evenly in area indicated and orient for best appearance and sun exposure.
E. Prune all existing relocated trees to Tree Care Industry Association ANSI A300 standards.
F. Apply fertilizer per manufacturer's instructions, as applicable to each plant type.
G. Apply Fir or Hemlock bark mulch over all non-turfed landscaped areas.
H. Comply with local jurisdiction 'Sun Shade' regulations for planting trees adjacent private property lines.



PREPARED FOR:
HILLSBORO SCHOOL DISTRICT
4901 SE Witch Hazel Rd, Hillsboro, OR
97123

PROJECT NAME & ADDRESS:
CONS MGMT OFFICE TI

HILLSBORO SCHOOL DISTRICT
4901 SE Witch Hazel Rd
Hillsboro, OR 97123



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Table with 3 columns: No., Date, Description. It is currently empty.

PROJECT NUMBER: 180994
DATE: 10-05-2018

PERMIT SUBMITTAL
SHEET TITLE:

CONSTRUCTION REQS

SHEET NUMBER:

A-003

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0" - 3"  
 Line is 3 inches at full scale  
 (if not 3 inches then scale accordingly)

PREPARED FOR:  
 HILLSBORO SCHOOL DISTRICT  
 4901 SE Witch Hazel Rd, Hillsboro, OR  
 97123



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REVISIONS:

No.	Date	Description

PROJECT NUMBER: 180994  
 DATE: 10-05-2018

**PERMIT SUBMITTAL**  
 SHEET TITLE:

**CEILING PLAN**

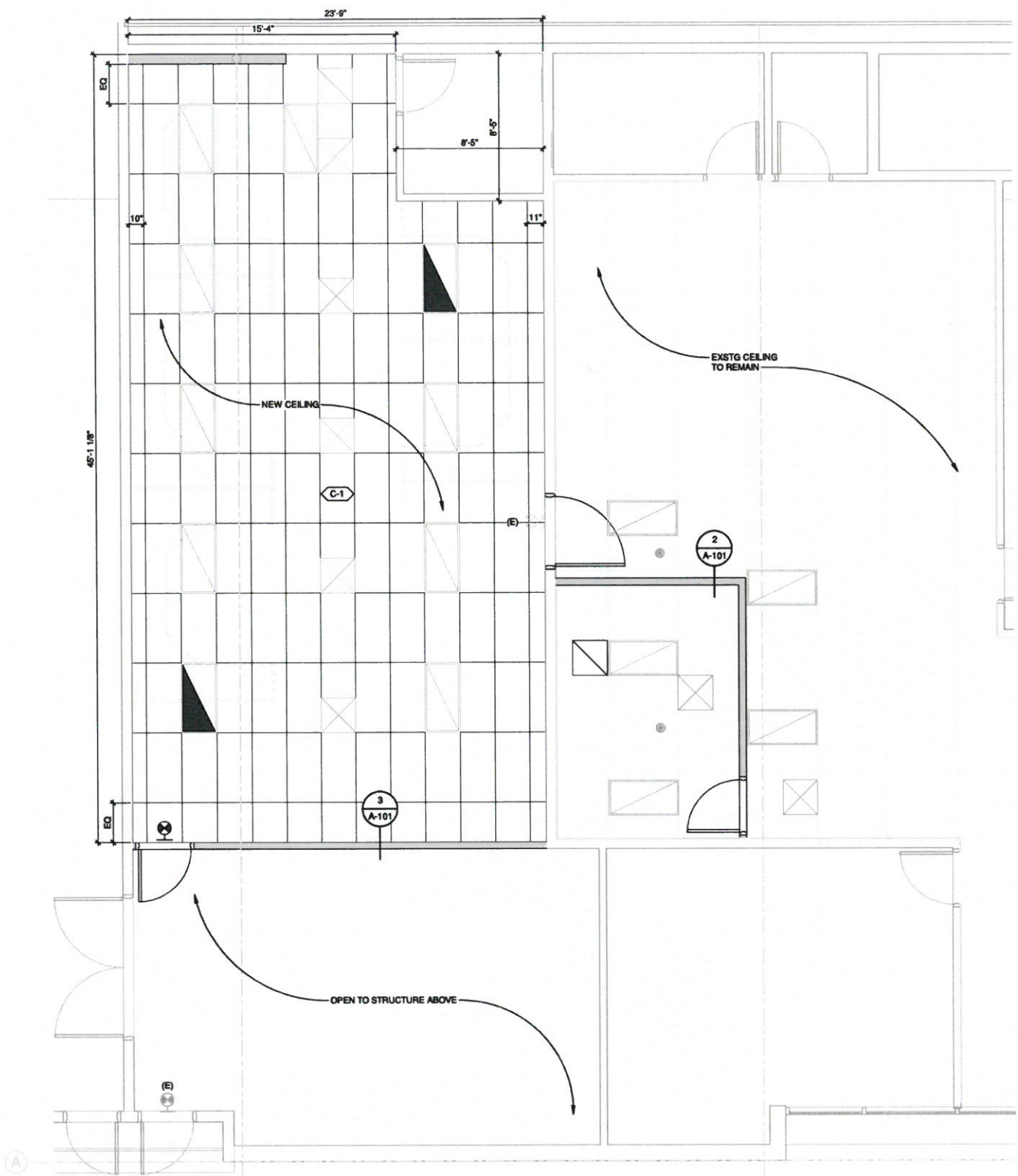
SHEET NUMBER:  
**A-101C**

**GENERAL NOTES**

- A. ALL DIMENSIONS TO EXISTG COMPONENTS ARE ± 3".
- B. PATCH WALLS, FLOORS, CEILINGS AND FINISHES AS REQD AT ALL AREAS OF DEMOLITION WORK.
- C. CONFIRM EXTENT OF DEMOLITION W/ NEW DRAWINGS AND DETAILS.
- D. ALL DOORS AS SELECTED BY OWNER. SEE GENERAL DOOR REGS THIS SHEET FOR MINIMUM REQUIREMENTS.
- E. PAINT ALL WALLS WITHIN AREA OF WORK U.N.O.
- F. PROVIDE INDEPENDENT LIGHT SWITCHING FOR EACH ROOM.
- G. NEW T-BAR & CEILING TILE WHERE NOTED - SEE CEILING PLANS.
- H. PROVIDE 1 FT CANDLE MN LIGHTING AT ALL WALKING SURFACES AS REQD BY CODE.
- I. LOCATE FIRE SPRINKLER HEADS AS REQD FOR NEW WORK. FINAL LOCATIONS BY SPRINKLER CONSULTANT.

**LEGEND**

- NEW 2x4 CEILING GRID WITH WHITE FIGURED 2x4 SQUARE EDGE LAY-IN ACOUSTIC CEILING TILE
- TROFFER LAYIN FIXTURE
- TROFFER LAYIN FIXTURE W/ EMERGENCY BACKUP
- CEILING SUPPLY DIFFUSER
- CEILING RETURN DIFFUSER
- SELF ILLUMINATED EXIT SIGN



**1 CEILING PLAN LEVEL 1**  
 1/4" = 1'-0"



0' - 3"  
Line is 3 inches at full scale  
(If not 3 inches then scale accordingly)

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REVISIONS:

No.	Date	Description

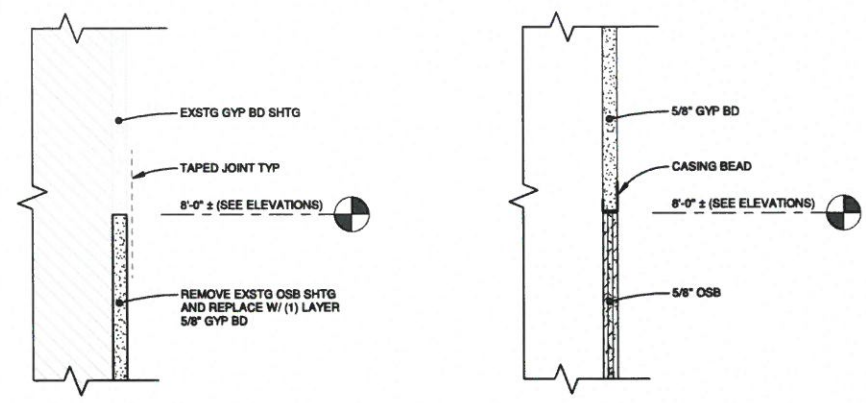
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DATE: 10-05-2018

PERMIT SUBMITTAL  
SHEET TITLE:

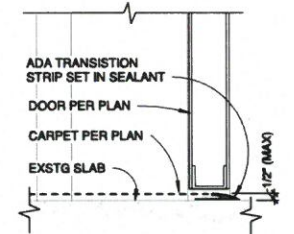
INTERIOR ELEVATIONS

SHEET NUMBER:

A-202



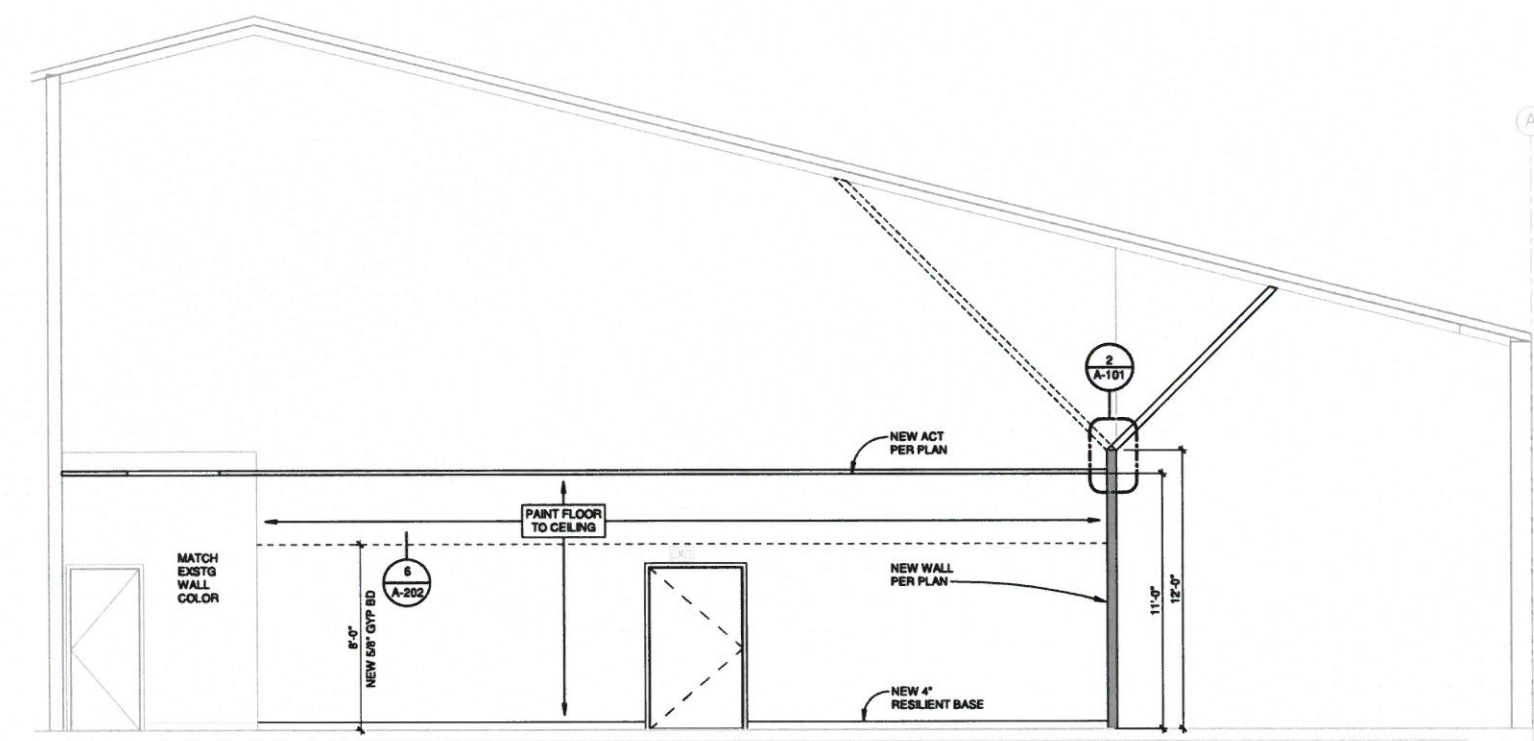
NOTE: MATCH EXSTG GWB THICKNESS TO OBTAIN FLUSH SURFACE CONDITION



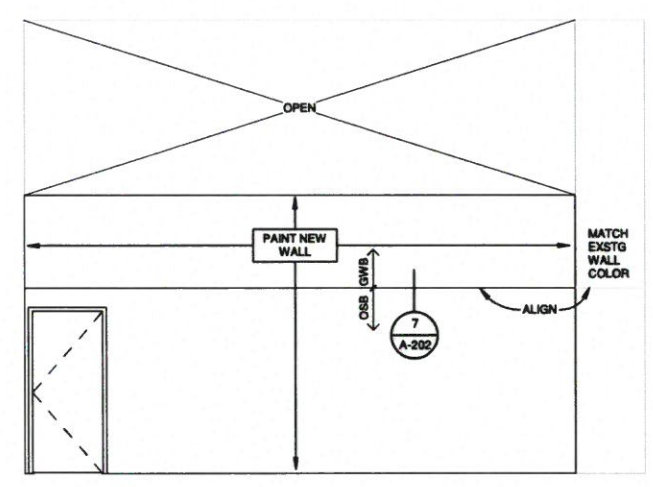
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3" = 1'-0"

7 GYP BD AT OSB  
3" = 1'-0"

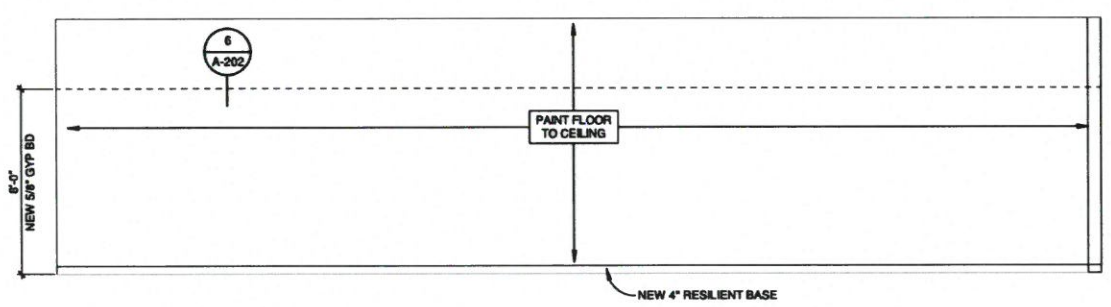
8 CARPET TRANSITION  
3" = 1'-0"



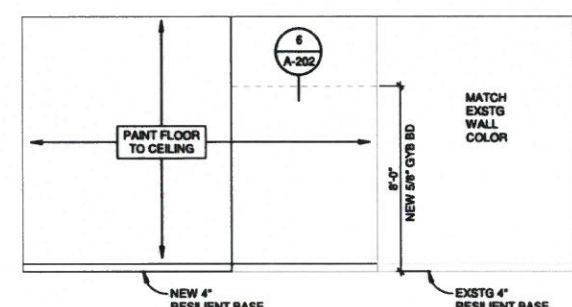
4 SECTION  
1/4" = 1'-0"



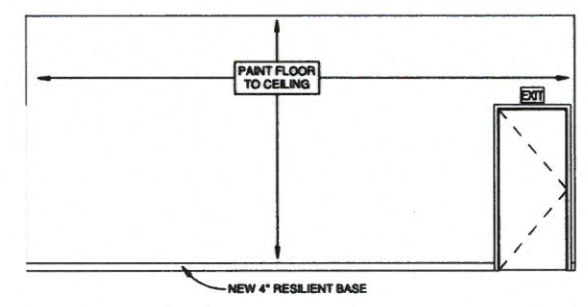
5 ELEVATION - NORTH  
1/4" = 1'-0"



1 ELEVATION - WEST  
1/4" = 1'-0"



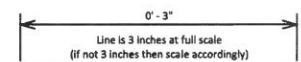
2 ELEVATION - NORTH  
1/4" = 1'-0"



3 ELEVATION - SOUTH  
1/4" = 1'-0"

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REVISIONS:

No.	Date	Description

PROJECT NUMBER: 180994  
DATE: 10-05-2018

**PERMIT SUBMITTAL**  
SHEET TITLE:

**SUSPENDED CEILING REQS**

SHEET NUMBER:

**A-601**

**SUSPENDED CEILING REQS**

**ELECTRICAL FIXTURES**

- 1 LIGHT FIXTURES WEIGHING LESS THAN 10lbs SHALL HAVE (1) 12 GA SLACK HANGER WIRE ATTACHED TO STRUCTURE ABOVE.
- 2 LIGHT FIXTURES WEIGHING MORE THAN 10lbs AND LESS THAN 56lbs SHALL HAVE (2) 12 GA SLACK HANGER WIRES ATTACHED AT OPPOSING CORNERS OF THE LIGHT TO THE STRUCTURE ABOVE.
- 3 LIGHT FIXTURES WEIGHING 56lbs OR MORE SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE (INDEPENDENT OF THE CEILING SUPPORT).
- 4 PENDANT LITES SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE WITH A 9 GA WIRE OR OTHER APPROVED SUPPORT WITHOUT USING THE CEILING SYSTEM FOR SUPPORT.

**HANGERS**

- 1 HANGER WIRES MUST BE PLUMB WITHIN 1:6 UNLESS COUNTERSLOPING WIRES ARE PROVIDED. COUNTERSLOPING WIRES TO BE INSTALLED MINIMUM 45 DEG FROM HORIZONTAL.
- 2 HANGER WIRES TO BE MINIMUM 12 GA @ 4'-0" OC OR MINIMUM 10 GA @ 5'-0" OC
- 3 HANGER ATTACHMENTS TO STRUCTURE SHALL SUPPORT 100lbs (200lbs OR 3x THE DESIGN LOAD, WHICHEVER IS GREATER, AT CITY OF PORTLAND)
- 4 INSTALL HANGER WIRES @ TERMINAL ENDS WITHIN 8" OF PERIMETER.
- 5 HANGER WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL, EQUIPMENT OR OTHER OBSTRUCTIONS.
- 6 PROVIDE TRAPEZE WHERE OBSTRUCTIONS PRECLUDE DIRECT ATTACHMENT. TRAPEZE WITH BACK-TO-BACK 1 1/4" COLD-ROLLED CHANNELS (MIN) FOR SPANS GREATER THAN 48".
- 7 HANGER WIRE TIES TO BE (3) TIGHT TURNS AROUND ITSELF WITHIN 3".
- 8 POWDER DRIVEN SHOT-IN-ANCHORS ARE AN APPROVED METHOD OF ATTACHMENT FOR HANGER WIRES.

**LATERAL FORCE BRACING**

- 1 THE USE OF VERTICAL STRUTS AND SPLAY WIRES COMBINE TO CREATE LATERAL FORCE BRACING.
- 2 LATERAL FORCE BRACING IS REQ'D FOR ALL CEILINGS OVER 1000 SF IN AREA (144 SF AT CITY OF PORTLAND).
- 3 LATERAL FORCE BRACING SHALL BE 12'-0" OC AND BEGIN NO FURTHER THAN 6'-0" FROM WALLS.
- 4 CEILINGS WITH PLENUMS LESS THAN 12 INCHES TO STRUCTURE DO NOT REQUIRE LATERAL FORCE BRACING.
- 5 VERTICAL STRUTS MUST BE POSITIVELY ATTACHED TO THE SUSPENSION SYSTEM AND THE STRUCTURE ABOVE. CONNECTION AT GRID TO BE ON A MAIN RUNNER WITHIN 2" OF A CROSS RUNNER.
- 6 SEE CHART FOR RECOMMENDED STRUT MATLS AND LENGTHS.
- 7 SPLAY WIRES ARE TO BE (4) 12 GA WIRES ATTACHED TO THE MAIN BEAM WITHIN 2" OF VERTICAL STRUT, ARRAYED 90 DEG FROM EACH OTHER AND AT AN ANGLE NOT EXCEEDING 45 DEG FROM THE PLANE OF THE CEILING.
- 8 SPLAY WIRE ATTACHMENT TO STRUCTURE SHALL SUPPORT TWICE THE DESIGN LOAD OF THE CEILING OR 200lbs, WHICHEVER IS GREATER.
- 9 'POWDER DRIVEN SHOT-IN-ANCHORS' USED FOR LATERAL FORCE BRACING SPLAY WIRE CONNECTIONS IN SEISMIC DESIGN CATEGORIES D, E, & F SHALL BE ICC-ES APPROVED AND SHALL REQUIRE 'SPECIAL INSPECTION.' ANCHORS FOR SPLAYED WIRES INSTALLED FOR PURPOSES OTHER THAN SEISMIC RESTRAINT ARE EXEMPT FROM THIS REQUIREMENT.

**MECHANICAL FIXTURES**

- 1 TERMINALS OR SERVICES WEIGHING MORE THAN 20lbs AND LESS THAN 56lbs SHALL HAVE (2) SLACK 12 GA HANGER WIRES ATTACHED TO THE STRUCTURE ABOVE.
- 2 TERMINALS OR SERVICES WEIGHING MORE THAN 56lbs MUST BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE ABOVE.

**SEISMIC SEPARATION JOINTS**

- 1 CEILING AREAS NOT OTHERWISE SEPARATED BY BRACED SOFFITS OR PARTITIONS EXCEEDING 2500 SF SHALL BE SEPARATED BY A SEISMIC SEPARATION JOINT.
- 2 THE SEISMIC SEPARATION JOINT MAY BE PROPRIETARY OR CONSTRUCTED PER THE GENERIC DETAIL PROVIDED. THE AMOUNT OF FREE MOVEMENT (GAP DESIGN) SHALL BE A MINIMUM 3/4".
- 3 SEISMIC SEPARATION JOINTS MAY NOT BE USED IN FIRE RATED SYSTEMS.

**SPREADER BARS**

- 1 WHERE MAIN OR CROSS RUNNERS ARE NOT POSITIVELY ATTACHED TO WALL MOLDING, SPREADER BARS ARE REQ'D TO PREVENT ENDS FROM SPREADING OPEN IN A SEISMIC EVENT.
- 2 WIRE TYING IS AN ACCEPTABLE ALTERNATIVE TO SPREADER BARS. PERIMETER HANGER WIRES SHALL NOT BE USED IN LIEU OF SPREADER BARS.
- 3 SPREADER BARS ARE NOT REQ'D WHERE A 90 DEGREE INTERSECTING MAIN RUNNER OR CROSS TEE IS WITHIN 8" OF THE WALL.
- 4 PERIMETER CLIPS MAY SATISFY THE REQ'S FOR SPREADER BARS WHERE SUBSTANTIATING DOCUMENTS HAVE BEEN SUBMITTED TO AND APPROVED BY THE LOCAL JURISDICTION.

**SPRINKLERS**

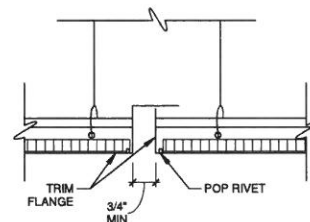
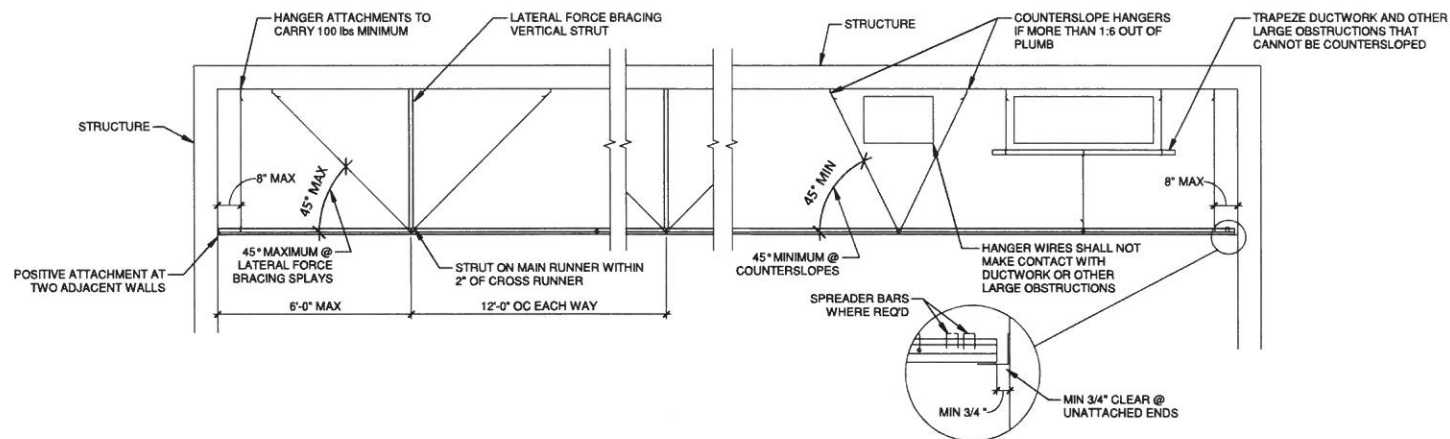
- 1 SPRINKLER HEAD PENETRATIONS SHALL ALLOW 1" LATERAL MOVEMENT OF CEILING IN ALL DIRECTIONS WITHOUT CAUSING DAMAGE TO SPRINKLER HEAD.
- 2 WHERE SPRINKLER HEAD IS PROVIDED WITH A FLEXIBLE CONNECTION THAT ACCOMMODATES 1" OF LATERAL MOVEMENT IN ALL DIRECTIONS, THE OPENING SURROUNDING THE PENETRATION SHALL BE 1/4" MINIMUM.

**SUSPENDED GRID**

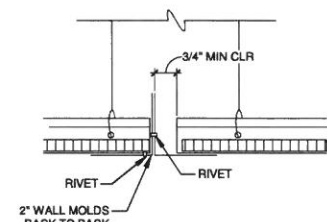
- 1 CEILING SYSTEM TO BE CLASSIFIED AS 'HEAVY DUTY' AS DEFINED BY ASTM C 635.
- 2 COMPLETE CEILING ASSEMBLY, INCLUDING (BUT NOT LIMITED TO) LIGHTS, MECH FIXTURES, ELEC AND COMM. CABLES, ETC., SHALL NOT EXCEED 4lbs PER SF.
- 3 MAIN RUNNERS AND CROSS TEES SHALL NOT EXCEED DEFLECTION EQUAL TO 1/360 OF IT SPAN.

**WALL MOLDINGS**

- 1 WALL MOLDINGS TO HAVE 2" WIDE HORIZONTAL FLANGE. CEILING GRID SHALL BE POSITIVELY ATTACHED TO THE WALL MOLDING AT ONE END, AND UNATTACHED WITH 3/4" CLEARANCE AT THE OPPOSITE END.
- 2 CEILING SHALL HAVE POSITIVE ATTACHMENT AT 2 ADJACENT WALLS AND REMAIN UNATTACHED WITH 3/4" CLEARANCE AT EACH OPPOSING WALL.
- 3 PERIMETER CLIPS MAY BE USED TO SATISFY REQ'S FOR 2" WALL MOLD WHERE SUBSTANTIATING DOCUMENTS HAVE BEEN SUBMITTED TO AND APPROVED BY THE LOCAL JURISDICTION.



**SEISMIC JOINT DETAIL**  
NTS



**ALTERNATE JOINT DETAIL**  
NTS

**CEILING LAYOUT**

NOTE: WHERE CEILING GRID LAYOUT HAS NOT BEEN SPECIFICALLY DIMENSIONED ON CEILING PLAN, CEILING LAYOUT SHALL BE AS FOLLOWS:

WHERE PRACTICAL, LAYOUT SUSPENDED CEILING GRID TO PROVIDE EQUAL BORDERS IN EACH DIRECTION.

WHERE EQUAL-EQUAL LAYOUT RESULTS IN A BORDER PANEL 4" OR LESS, ELIMINATE (1) BAY FROM THE LAYOUT IN THE AFFECTED DIRECTION THEREBY INCREASING THE PERIMETER PANEL SIZE BY 12" OR 24" (AS APPLIES).

COORDINATE CEILING LAYOUT WITH ELECTRICAL CONTRACTOR AND LIGHTING PLAN AND ADJUST LAYOUT AS REQ'D. LIGHTING REQUIREMENTS TAKE PRECEDENCE OVER EQUAL BORDERS UNLESS NOTED OTHERWISE.

MAINTAIN NOMINAL 2x2 OR 2x4 LAYOUT UNLESS SPECIFICALLY NOTED OTHERWISE.

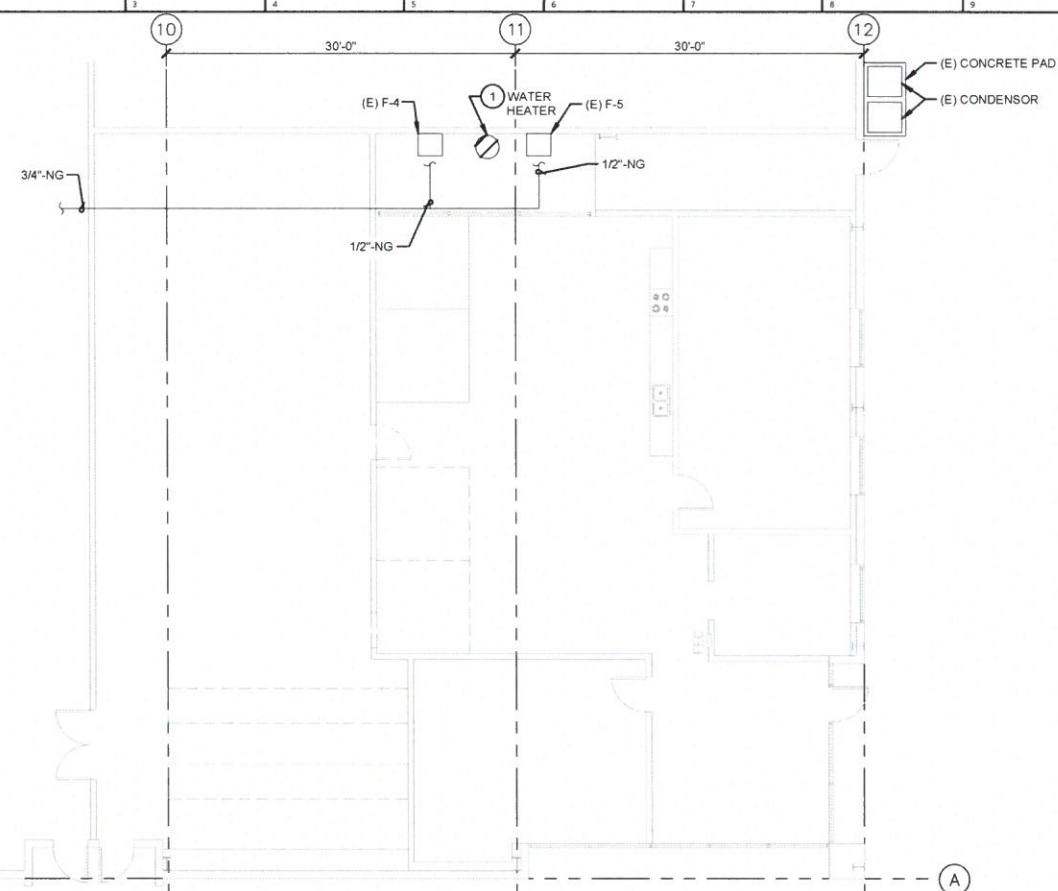
MAINTAIN 4" MINIMUM EXPOSED PERIMETER TILE WHERE POSSIBLE.

RECOMMENDED STRUT LENGTHS	
Material Size	Recommended Length
EMT CONDUIT	
1/2" EMT CONDUIT	UP TO 5'-10"
3/4" EMT CONDUIT	UP TO 7'-8"
1" EMT CONDUIT	UP TO 9'-9"
METAL STUDS	
SINGLE 1 5/8" METAL STUD (20 GAUGE)	UP TO 12'-0"
BACK-TO-BACK 1 5/8" METAL STUDS (20 GAUGE)	UP TO 15'-0"
SINGLE 2 1/2" METAL STUD (20 GAUGE)	UP TO 13'-6"
BACK-TO-BACK 2 1/2" METAL STUDS (25 GAUGE)	UP TO 15'-0"

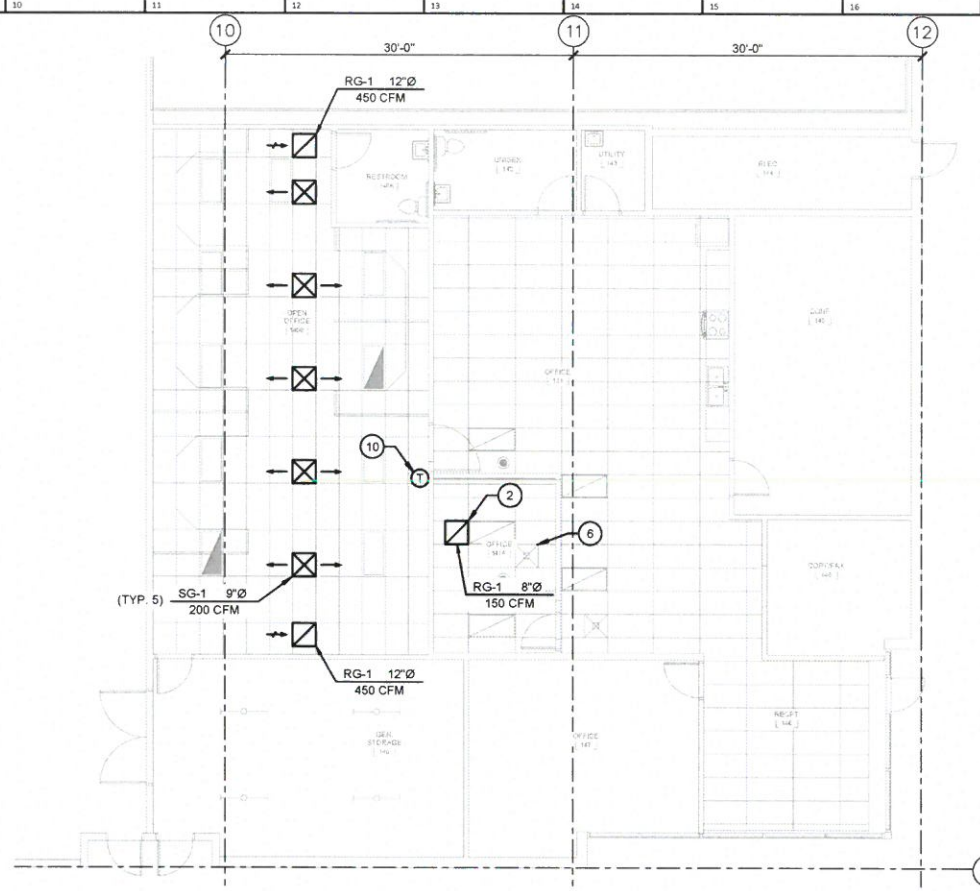




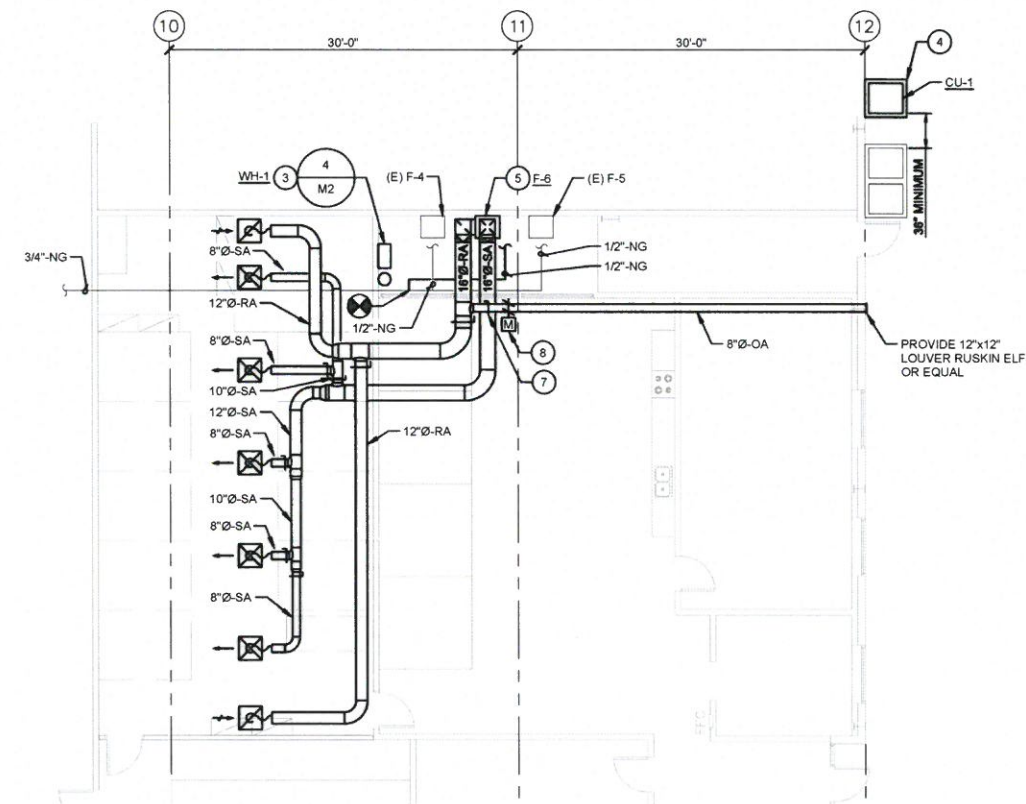




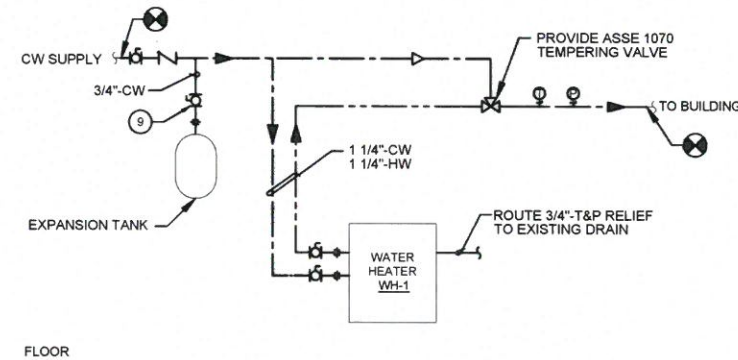
**1 MEZZANINE DEMOLITION PLAN**  
 1/8" = 1'-0"



**2 1ST FLOOR PLAN**  
 1/8" = 1'-0"



**3 MEZZANINE PLAN**  
 1/8" = 1'-0"



**4 WATER HEATER DETAIL**  
 1/8" = 1'-0"

- GENERAL NOTES**
- A SEE SHEET M1 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES
  - B CONSTRUCT ALL DUCTWORK TO SMACNA +2" PRESSURE CLASSIFICATION
  - C INSULATE OUTSIDE AIR DUCT WITH MINIMUM 1 1/2" FIBERGLASS INSULATION WITH VAPOR BARRIER
  - D INSULATE SUPPLY AIR DUCT WITH MINIMUM 1" FIBERGLASS INSULATION
  - E ALL DOMESTIC WATER PIPING TO BE TYPE L COPPER INSULATE WITH 1" FIBERGLASS INSULATION AND PROVIDE WITH VAPOR BARRIER ON COLD WATER PIPE

- KEYED NOTES**
- 1 REMOVE WATER HEATER AND ASSOCIATED PIPING AS REQUIRED TO ACCOMMODATE NEW PIPING AND EQUIPMENT.
  - 2 CONNECT RETURN GRILLE TO EXISTING RETURN DUCT.
  - 3 CONNECT WH-1 TO EXISTING HOT AND COLD WATER SUPPLY.
  - 4 PROVIDE NEW CONCRETE PAD AS REQUIRED TO ACCOMMODATE CU-1. ANCHOR CU-1 TO PAD PER MANUFACTURER'S INSTRUCTIONS
  - 5 MOUNT PER MANUFACTURER'S INSTRUCTIONS. MAINTAIN 36" IN FRONT OF UNIT CLEAR FOR MAINTENANCE ACCESS AND WALKING PATH. DISCHARGE CONDENSATE DRAIN TO EXISTING DRAIN.
  - 6 BALANCE DIFFUSER TO PROVIDE 150 CFM. THE EXISTING SYSTEM IS ASSUMED TO PROVIDE 10% OUTSIDE AIR. REQUIRED MINIMUM OUTSIDE AIR IS 10 CFM PER OMSC TABLE 403.3
  - 7 BALANCE DAMPER TO PROVIDE 115 CFM OF OUTSIDE AIR.
  - 8 PROVIDE MOTORIZED DAMPER IN OUTSIDE AIR DUCT AND INTERLOCK WITH F-6 OPERATION.
  - 9 PROVIDE LOCKING BALL VALVE. LOCK IN OPEN POSITION.
  - 10 INSTALL THERMOSTAT AT 48" ABOVE FINISHED FLOOR. PROVIDE THERMOSTAT WITH F-6

**LEGEND**

ITEMS TO BE DEMOLISHED

DRAWN BY:  
 CHECKED BY:  
 09-11-2018 180994 M-1

0' - 3"  
 Line is 3 inches at full scale  
 (If not 3 inches then scale accordingly)

PREPARED FOR:

**HILLSBORO SCHOOL DISTRICT**  
 4901 SE Witch Hazel Rd, Hillsboro, OR 97123



PROJECT NAME & ADDRESS:  
**CONS MGMT OFFICE TI**

**HILLSBORO SCHOOL DISTRICT**  
 4901 SE Witch Hazel Rd  
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REVISIONS:

No.	Date	Description

PROJECT NUMBER: 180994  
 DATE: 09-11-2018

SHEET TITLE:  
**MECHANICAL DEMOLITION & INSTALLATION PLANS**  
**M2**



09-11-2018 180994 M-1  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 0' - 3"  
 Line is 3 inches at full scale  
 (if not 3 inches then scale accordingly)

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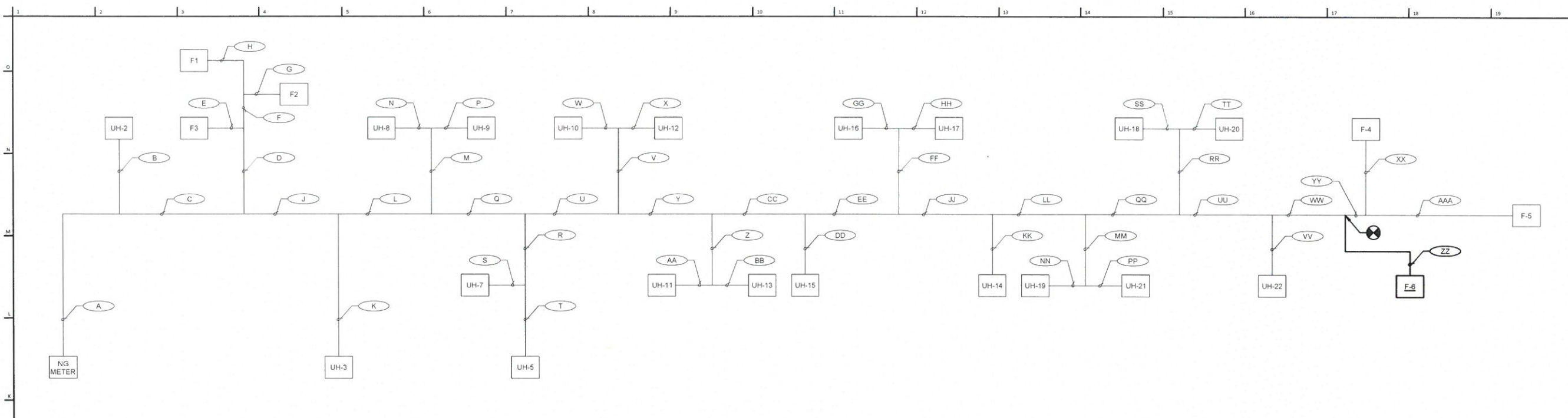
REVISIONS:

No.	Date	Description

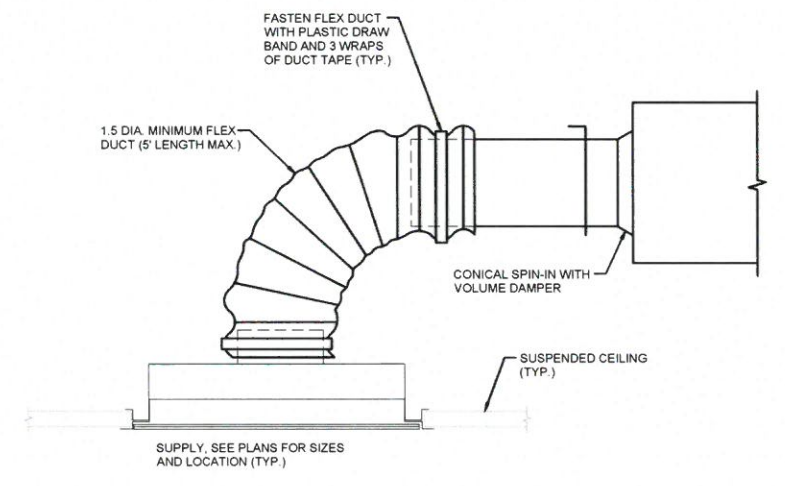
PROJECT NUMBER: 180994  
 DATE: 09-11-2018

SHEET TITLE:  
**MECHANICAL  
 DETAILS**

SHEET NUMBER:  
**M3**



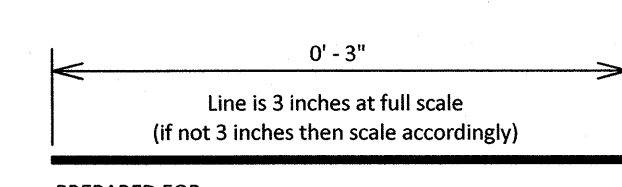
**1** NATURAL GAS RISER DIAGRAM  
 M3 NTS



**2** DIFFUSER CONNECTION  
 M3 NTS



DRAWN BY: -  
 CHECKED BY: -



PREPARED FOR:

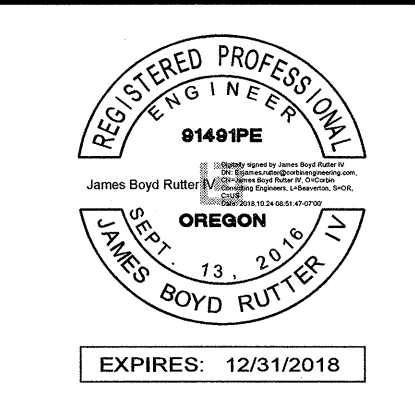
HILLSBORO SCHOOL DISTRICT  
 4901 SE Witch Hazel Rd, Hillsboro, OR  
 97123



PROJECT NAME & ADDRESS:

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REVISIONS:

No.	Date	Description

PROJECT NUMBER: 180994  
 DATE: 09-11-2018

SHEET TITLE:  
**MECHANICAL SCHEDULES**

SHEET NUMBER:

**M4**

GAS FURNACE SCHEDULE																								
TAG	SERVICE	AIR FLOW (CFM)	MIN. OA (CFM)	SUPPLY FAN		COOLING		HEATING (NATURAL GAS)						ELECTRICAL				BASIS OF DESIGN				REMARKS		
				ESP (INWC)	HP	TOTAL (MBH)	SEER / EER RATING	INPUT (MBH)	OUTPUT (MBH)	INLET PRESSURE (IN WG)	EAT (°F)	LAT (°F)	STAGE #	V	Ø	MCA	MOCP	H (IN)	W (IN)	D (IN)	WEIGHT (LBS)		MFG	MODEL
F-6	BUILDING 85-125 VENTILATION	1000	115	0.5	1/2	36	17.25/12	44	33	3.5	75	105	1	120	1	5.2	15	53	22	24	167	LENNOX	EL180UH045E36A	SEE NOTES

NOTES:  
 1. ASSOCIATED WITH CU-1  
 2. PROVIDE WITH THERMOSTAT CAPABLE OF SCHEDULING AND NIGHT SETBACK  
 3. PROVIDE WITH FILTER BANK ON RETURN AIR INLET.  
 4. PROVIDE UPFLOW UNIT.  
 5. PROVIDE NATURAL GAS TRAIN INCLUDING ALL REQUIRED ACCESSORIES.

(F-6) VENTILATION REQUIREMENT SUMMARY												
ROOM NAME	AHU SERVICE	TABLE 403.3 VALUES						REMARKS				
		AREA (FT²)	RP PEOPLE AIR RATE	OD # / 1000 FT² AIR RATE	RA AREA AIR RATE	ZONE POP (OCC)	BREATHING ZONE (CFM)	EZ ZONE EFF.	VOZ ZONE OSA (CFM)	VPZ BALANCED AIRFLOW CFM	ZP PRIMARY OUTDOOR AIR FRACTION	
OPEN OFFICE 101	F-6	1063	5	5	0.06	5.3	91	0.8	114	1000	0.11	

SYSTEM RESULTS	EV SYSTEM VENTILATION EFFICIENCY	D DIVERSITY	VOU UNCORRECTED OSA INTAKE (CFM)	VOT SYSTEM OSA (CFM)
F-6	0.800	1.0	90	114

CONDENSING UNIT													
TAG NUMBER	LOCATION	SERVICE	ELECTRICAL			DESIGN BASIS						REMARKS	
			MCA	MOP	V	Ø	H (IN)	W (IN)	L (IN)	WEIGHT (LBS)	MFG		MODEL
CU-1	OUTSIDE	F-6	16.2	25	208	3	31	31	35	243	LENNOX	SSB036H4	SEE NOTES

NOTES:  
 1. ASSOCIATED WITH F-6.

WATER HEATER SCHEDULE				
SYMBOL	UNIT DESCRIPTION	HOT		REMARKS
		1-1/4	1-1/4	
WH-1	ELECTRIC HOT WATER HEATER	1-1/4	1-1/4	20KW INSTANTANEOUS ELECTRIC HOT WATER HEATER. 208V3 PHASE. 96 AMPS. 17.8 LB. RHEEM RETEX-27 OR EQUAL. PROVIDE WITH EXPANSION TANK, AMTROL THERM-X-TROL ST-5 OR EQUAL.

DIFFUSER, REGISTER AND GRILLE SCHEDULE								
SYMBOL	TYPE	MATERIAL	BLOW PATTERN	NECK SIZE	DESIGN BASIS			REMARKS
					MAX NC	MFG	MODEL	
SG-1	CEILING	STEEL	S2	10"	35	TITUS	TDC	
RG-1	CEILING	STEEL	N/A	12"	35	TITUS	PAR	



ABBREVIATIONS

ELECTRICAL LEGEND

DRAWING INDEX

Table of abbreviations with columns for symbol, description, and quantity. Includes terms like AMP, AB, AC, AFD, etc.

Table of electrical symbols and descriptions. Includes categories like OUTLETS, SWITCHES, MECHANICAL, TELE/DATA, and FIXTURES.

Table of electrical symbols and descriptions. Includes categories like SURFACE OR PENDANT MOUNTED FIXTURE, RECESSED DOWNLIGHT FIXTURE, NIGHT LIGHT, etc.

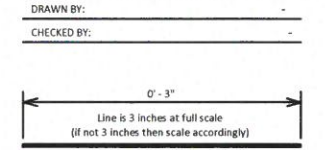
Drawing Index table with columns DWG and DESCRIPTION. Lists E1, E2, E3, E4.

GENERAL NOTES

- List of general notes (A-Z) detailing project requirements, standards, and installation instructions.

CONDUCTOR COLOR CODES

Table of conductor color codes for various conductor types and voltages.



PREPARED FOR: HILLSBORO SCHOOL DISTRICT 4901 SE Witch Hazel Rd, Hillsboro, OR 97123



PROJECT NAME & ADDRESS: CONS MGMT OFFICE TI

HILLSBORO SCHOOL DISTRICT 4901 SE Witch Hazel Rd Hillsboro, OR 97123



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Revisions table with columns No., Date, and Description.

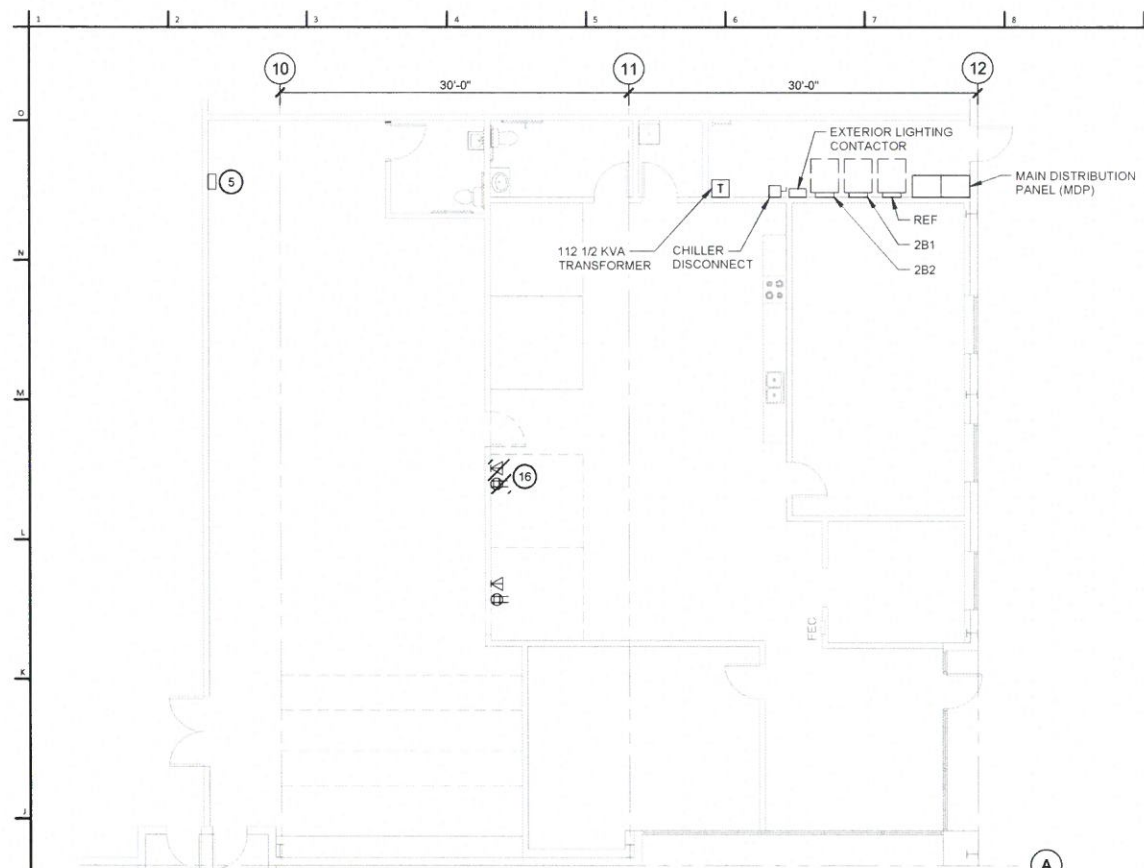
PROJECT NUMBER: 180994 DATE: 09-11-2018

PRELIMINARY SHEET TITLE:

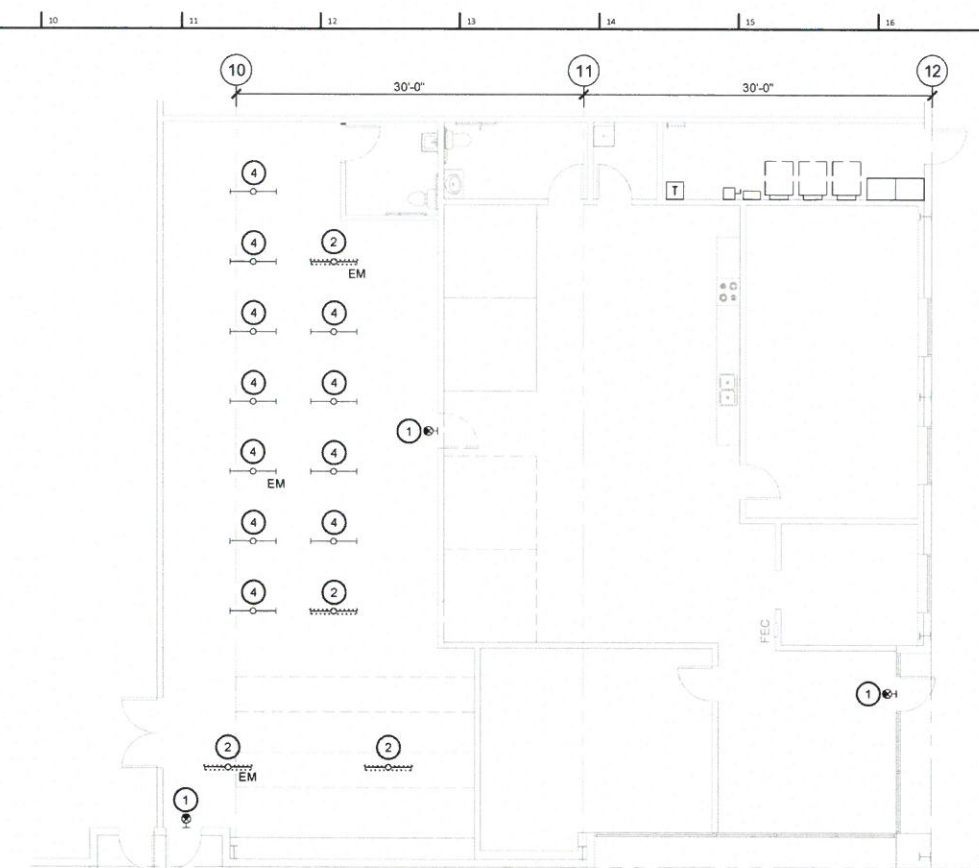
ELECTRICAL LEGEND, ABBREVIATIONS, & GENERAL NOTES

SHEET NUMBER: E1

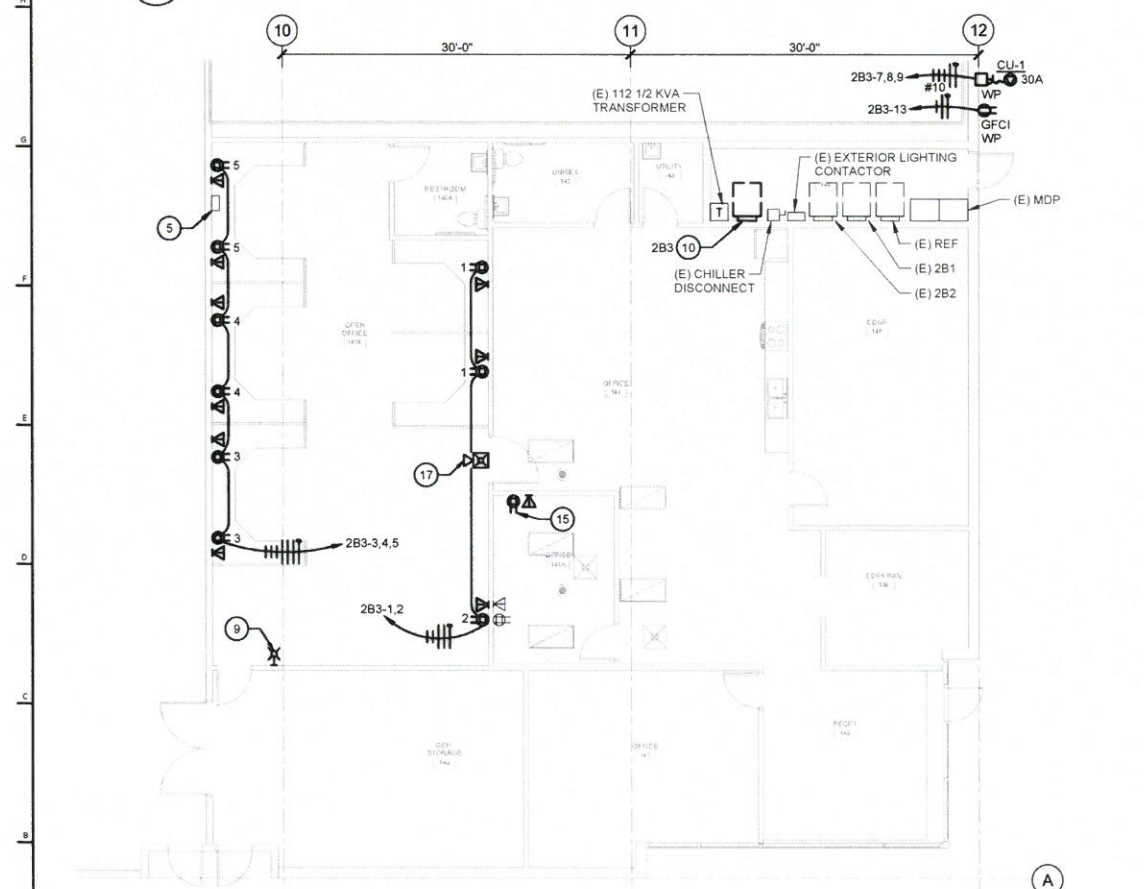




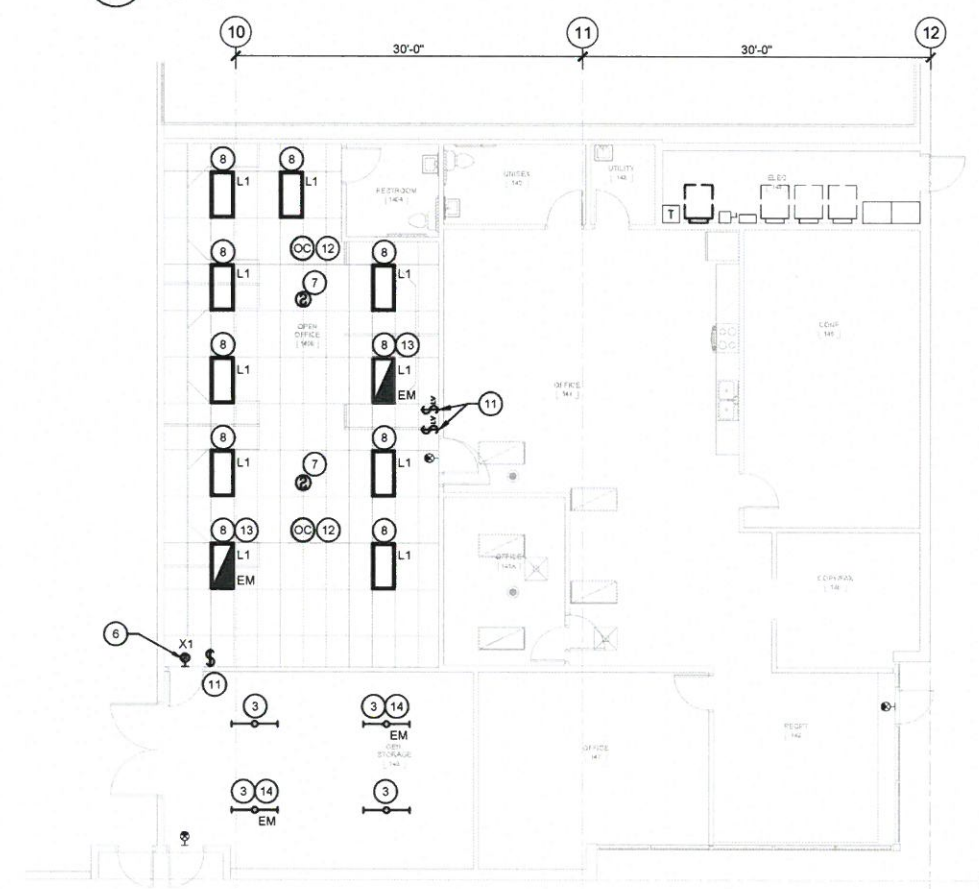
**1 1ST FLOOR POWER DEMOLITION PLAN**  
 1/8" = 1'-0"



**2 1ST FLOOR LIGHTING DEMOLITION PLAN**  
 1/8" = 1'-0"



**3 1ST FLOOR POWER PLAN**  
 1/8" = 1'-0"



**4 1ST FLOOR LIGHTING PLAN**  
 1/8" = 1'-0"

**GENERAL NOTES**

A SEE SHEET E1 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES

**KEYED NOTES**

- 1 EXIT SIGN TO REMAIN.
- 2 STRIP FIXTURE TO BE RELOCATED. SEE DETAIL 4/E2 FOR NEW LOCATION.
- 3 INSTALL EXISTING STRIP FIXTURE IN LOCATION SHOWN. MATCH MOUNTING HEIGHT WITH OTHER EXISTING STRIP LIGHTS. EXTEND LIGHTING CIRCUIT AND CONNECT TO EXISTING SWITCH FOR THIS AREA.
- 4 ABANDON STRIP FIXTURES IN PLACE. DISCONNECT FIXTURE WHIP AND SAFE OFF CONDUCTORS. MAINTAIN CIRCUIT CONTINUITY.
- 5 FIRE ALARM BATTERY CABINET TO REMAIN.
- 6 INSTALL NEW EXIT SIGN IN LOCATION SHOWN. CONNECT COMPLETE TO EXISTING SIGN CIRCUIT.
- 7 PROVIDE NEW SMOKE DETECTOR AS SHOWN AND CONNECT TO EXISTING FIRE ALARM SYSTEM.
- 8 INSTALL NEW 2'x4' RECESSED LED FIXTURE. SEE 2/E4 FOR ADDITIONAL INFORMATION.
- 9 PROVIDE NEW STROBE AS SHOWN AND CONNECT TO EXISTING FIRE ALARM SYSTEM.
- 10 NEW PANEL. SEE 3/E3 FOR ADDITIONAL INFORMATION.
- 11 TUNABLE WHITE WALL POD. SEE 1/E4 FOR ADDITIONAL INFORMATION. LITHONIA MODEL NUMBER nPDM 45 DX EDUTW OR APPROVED EQUAL.
- 12 OCCUPANCY SENSOR. SEE 2/E4 FOR ADDITIONAL INFORMATION. LITHONIA MODEL NUMBER nCM PDT9 OR APPROVED EQUAL.
- 13 PROVIDE BATTERY DRIVER FOR EMERGENCY LIGHTING. CONNECT CONDUCTORS TO BATTERY DRIVER SO FIXTURE CAN BE SWITCHED WITHOUT ACTIVATING THE BATTERY. BODINE MODEL #BSL20MV OR APPROVED.
- 14 RELOCATED FIXTURE HAS EMERGENCY BATTERY BALLAST. CONNECT CONDUCTORS SO FIXTURE CAN BE SWITCHED WITHOUT ACTIVATING THE BATTERY.
- 15 PROVIDE NEW DOUBLE DUPLEX RECEPTACLE IN LOCATION SHOWN AND CONNECT COMPLETE TO EXISTING CIRCUIT MADE SPARE DURING DEMOLITION.
- 16 REUSE EXISTING CIRCUIT FOR NEW RECEPTACLE IN OFFICE 141A. SEE 3/E2 FOR LOCATION.
- 17 PROVIDE NEW FIRE ALARM COMBINATION HORN/STROBE. CONNECT TO EXISTING FIRE ALARM SYSTEM.

**LEGEND**

- RELOCATE(D) ITEMS
- ITEMS TO BE DEMOLISHED

DRAWN BY:  
 CHECKED BY:  
 09-11-2018 180994 M-1

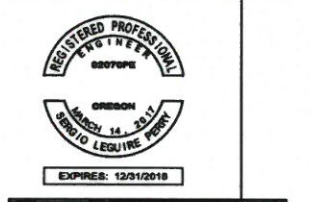
PREPARED FOR:

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 4901 SE Witch Hazel Rd, Hillsboro, OR 97123



PROJECT NAME & ADDRESS:  
**CONS MGMT OFFICE TI**

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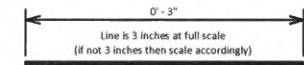
No.	Date	Description

PROJECT NUMBER: 180994  
 DATE: 09-11-2018

SHEET TITLE:  
**POWER & LIGHTING DEMOLITION & INSTALLATION PLANS**

SHEET NUMBER:  
**E2**





PREPARED FOR:

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REVISIONS:

No.	Date	Description

PROJECT NUMBER: 180994  
 DATE: 09-11-2018

SHEET TITLE:  
**POWER MEZZANINE DEMOLITION & INSTALLATION PLANS**

SHEET NUMBER:

**E3**

**GENERAL NOTES**

A SEE SHEET E1 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

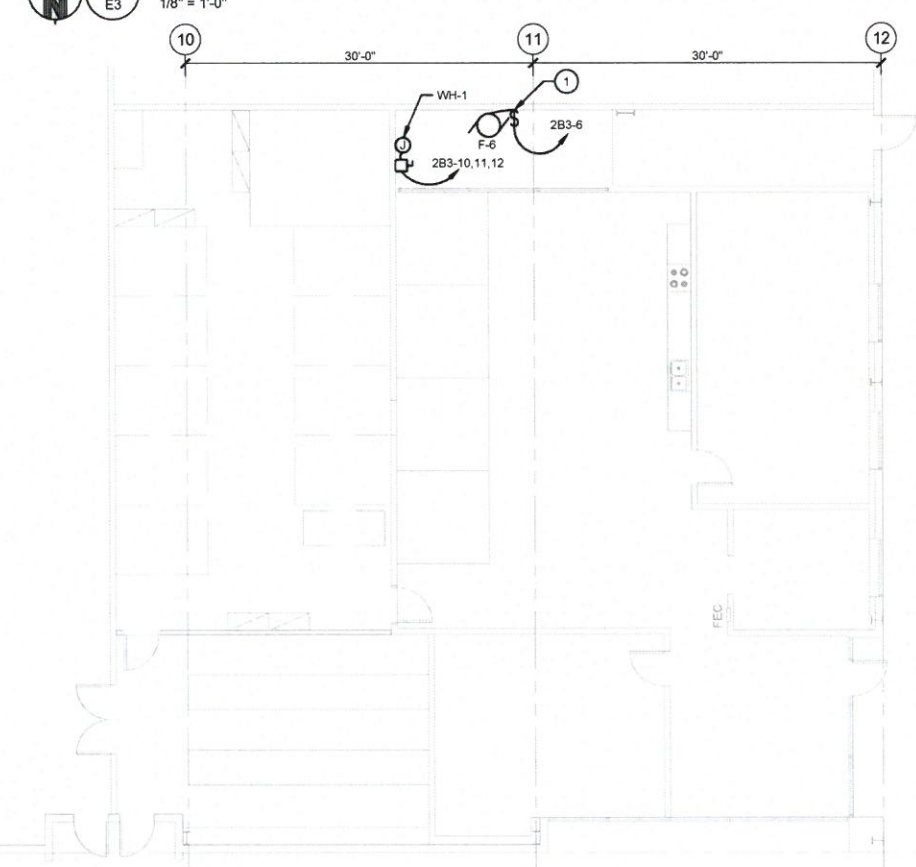
**KEYED NOTES**

- 1 PROVIDE MOTOR RATED TOGGLE DISCONNECT SWITCH.
- 2 INSTALL NEW CIRCUIT BREAKER IN MDP AS SHOWN. CIRCUIT BREAKER TO BE SIEMENS BRAND TO MATCH MDP. CIRCUIT BREAKER TO MATCH MDP MANUFACTURER. CIRCUIT BREAKER ALSO TO MATCH AIC OF MDP WHICH IS 65 KAIC.
- 3 PANEL BOARD TO BE 30 CIRCUIT, 208Y/120V, 3 PHASE, 4 WIRE, AND HAVE 125A RATED MAIN LUGS. SIEMENS C1 PANEL BOARD MODEL NUMBER CIC30ML125CTS OR APPROVED EQUAL.

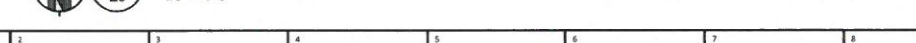
**LEGEND**



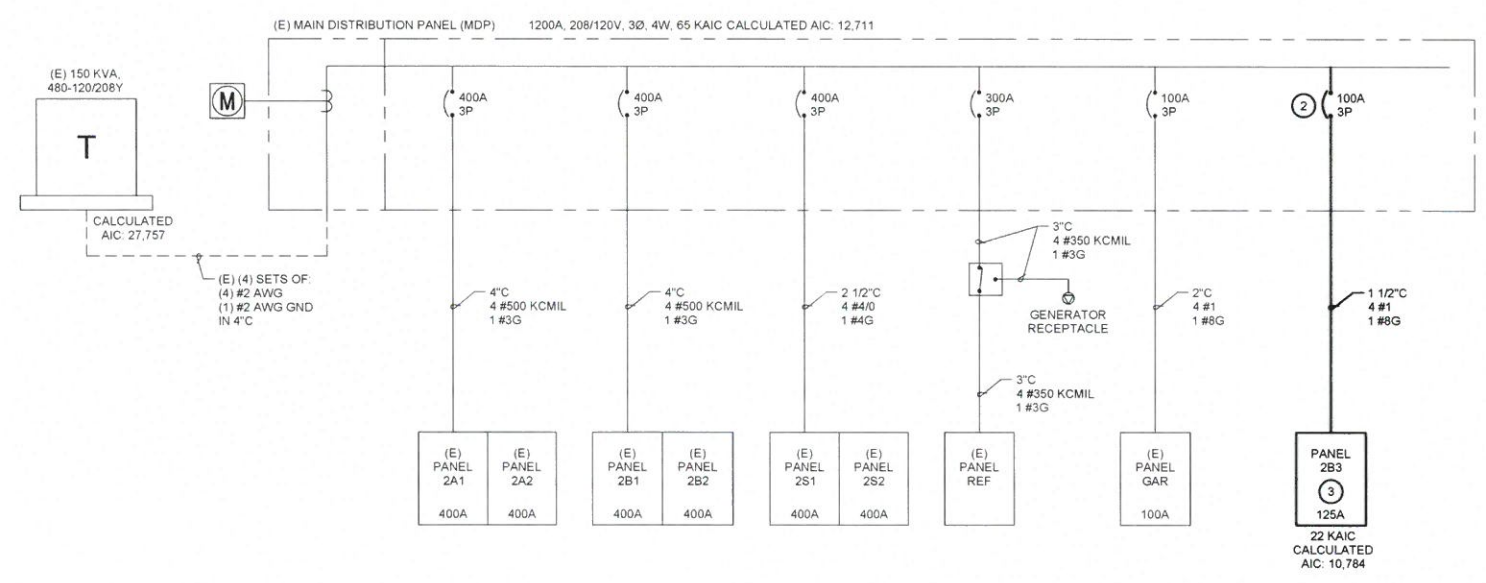
**1 MEZZANINE DEMOLITION PLAN**  
 1/8" = 1'-0"



**2 MEZZANINE PLAN**  
 1/8" = 1'-0"

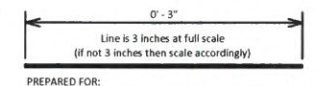


**3 SINGLE LINE POWER RISER DIAGRAM**  
 NTS





**KEYED NOTES**  
 1 REMOVE EXISTING LOAD AND LABEL CIRCUIT 'SPARE'



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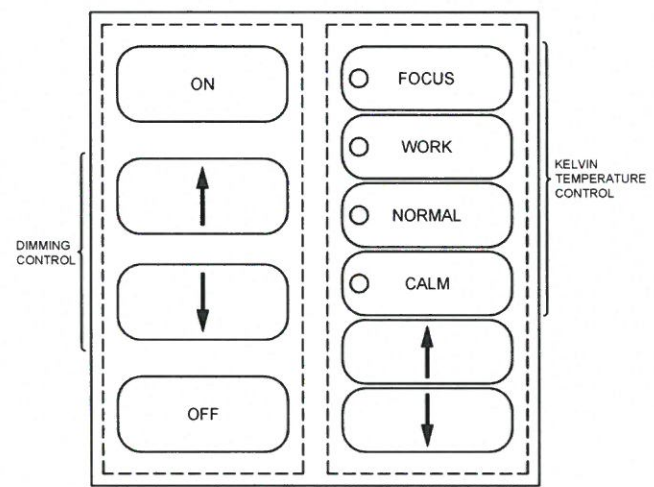
No.	Date	Description

PROJECT NUMBER: 180994  
 DATE: 09-11-2018

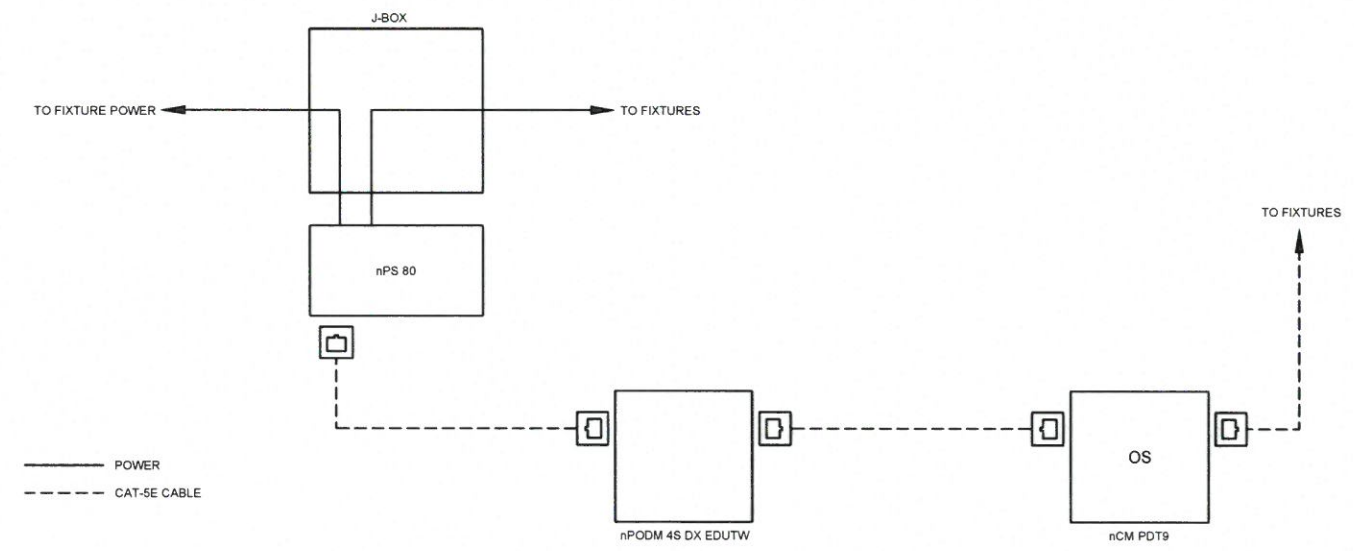
SHEET TITLE:  
**ELECTRICAL SCHEDULES**

SHEET NUMBER:  
**E4**

1



1 TUNABLE WHITE WALL POD  
 E4 SCALE: NONE



2 NETWORK LAYOUT WIRING DIAGRAM (LITONIA PARTS)  
 E4 SCALE: NONE

NOTE: PROVIDE ALL DEVICES FOR A COMPLETE AND OPERATIONAL SYSTEM.