

PROPOSED PIER ONE IMPORTS "FIT OUT"  
LOCATED IN TENANT SPACE #4

TRADER JOE'S PLAZA

C/O KEYSTONE REAL ESTATE GROUP, LP  
444 EAST COLLEGE AVENUE  
STATE COLLEGE, PA 16801

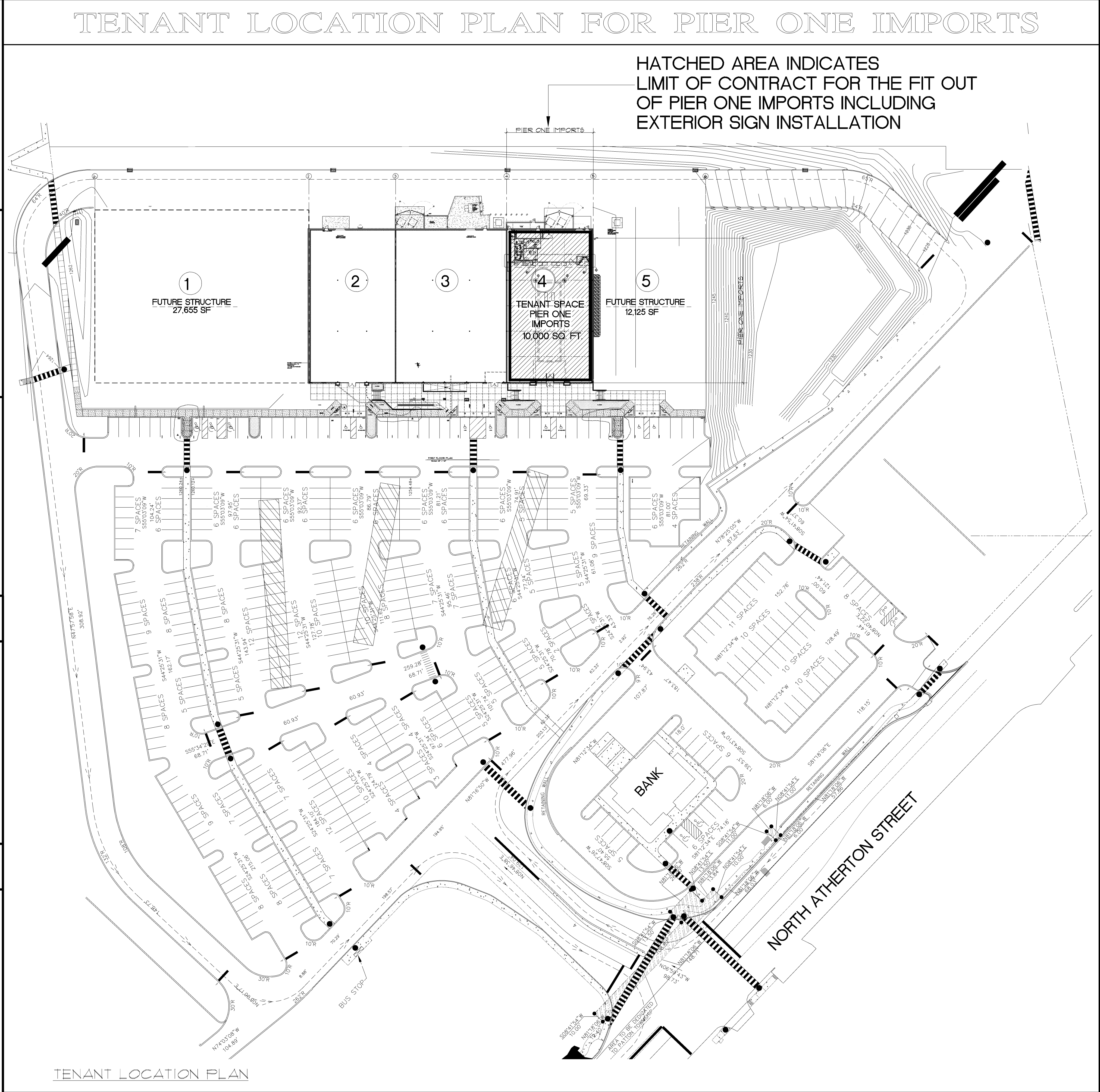
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521 East Beaver Avenue  
State College, PA 16801  
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Symbols

Materials

Abbreviations



GROSS SQUARE FOOTAGE OF BUILDING

FUTURE TENANT #1	UNKNOWN SQ.FT.
TENANT #2	10,000 SQ.FT.
TENANT #3	12,800 SQ.FT.
TENANT #4 PIER ONE IMPORTS TYPE 'M' OCCUPANCY	10,000 SQ.FT.
FUTURE TENANT #5	UNKNOWN SQ.FT.
TOTAL SQUARE FOOTAGE	32,800 SQ.FT.
MAXIMUM ALLOWABLE BUILDING SQ. FT. = 30,000 SQ. FT.	

General Notes

NOTICE

THESE DRAWINGS ARE PREPARED TO PROVIDE THE  
INTERIOR FIT OUT OF PIER ONE IMPORTS WITH THE  
ISSUANCE OF AN OCCUPANCY PERMIT.  
ALL WORK COMPLETED FOR THE PROPOSED TENANT  
SPACE SHALL BE IN COMPLIANCE WITH AND  
APPROVED BY THE CENTRE REGION CODE  
ADMINISTRATION.

Drawing Index

COVER SHEET

ARCHITECTURAL DRAWINGS

MECHANICAL DRAWINGS

PLUMBING DRAWINGS

ELECTRICAL DRAWINGS

Code Criteria

TENANT SPACE #4 | PIER ONE IMPORTS |  
OCCUPANCY TYPE

CONSTRUCTION TYPE

NUMBER OF STORIES / SQUARE FOOTAGE ALLOWED:

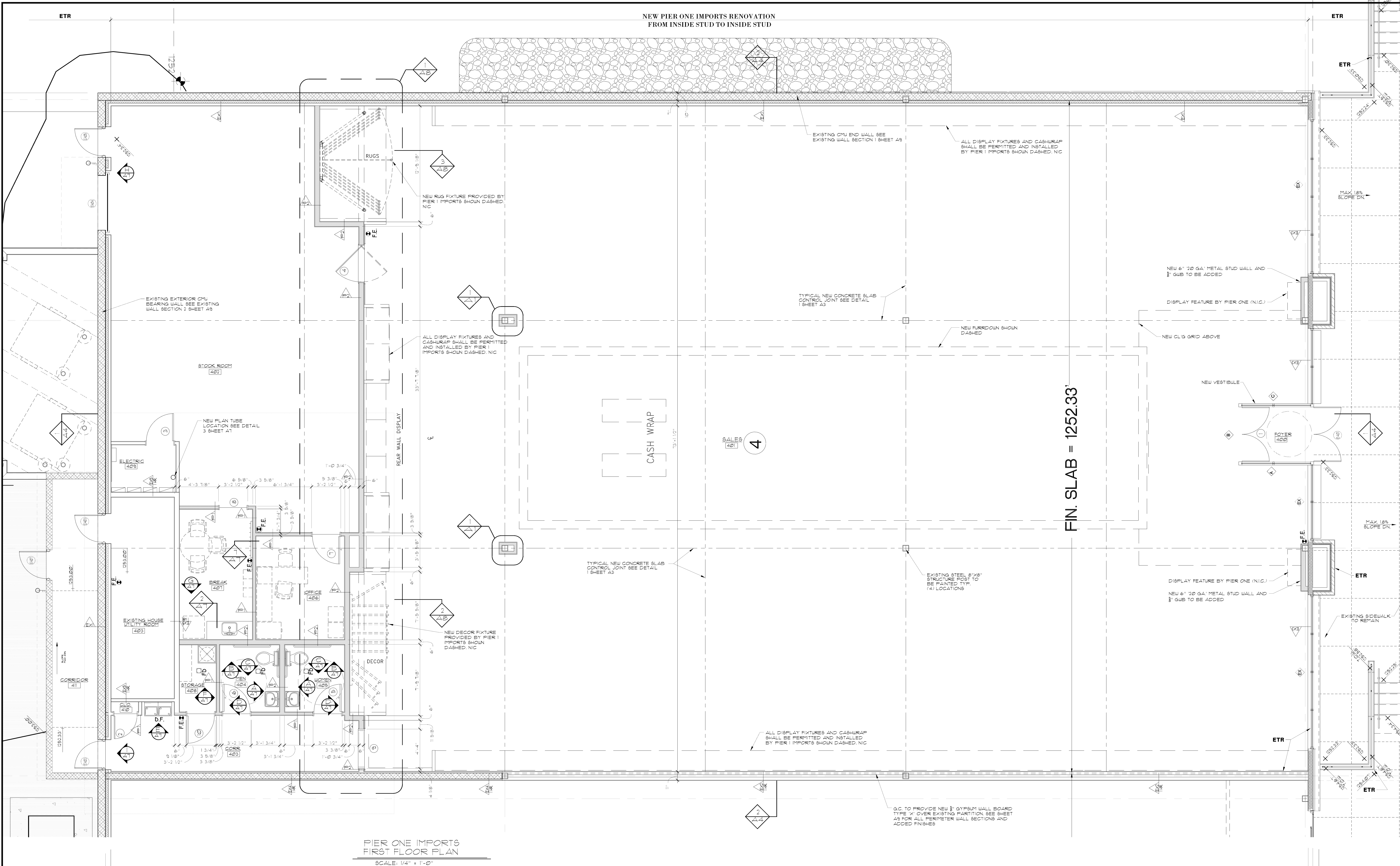
NUMBER OF STORIES / SQUARE FOOTAGE PROPOSED:

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING  
ELEMENTS (HOURS) - TABLE 601 IBC 2009

COVER SHEET

REVISION





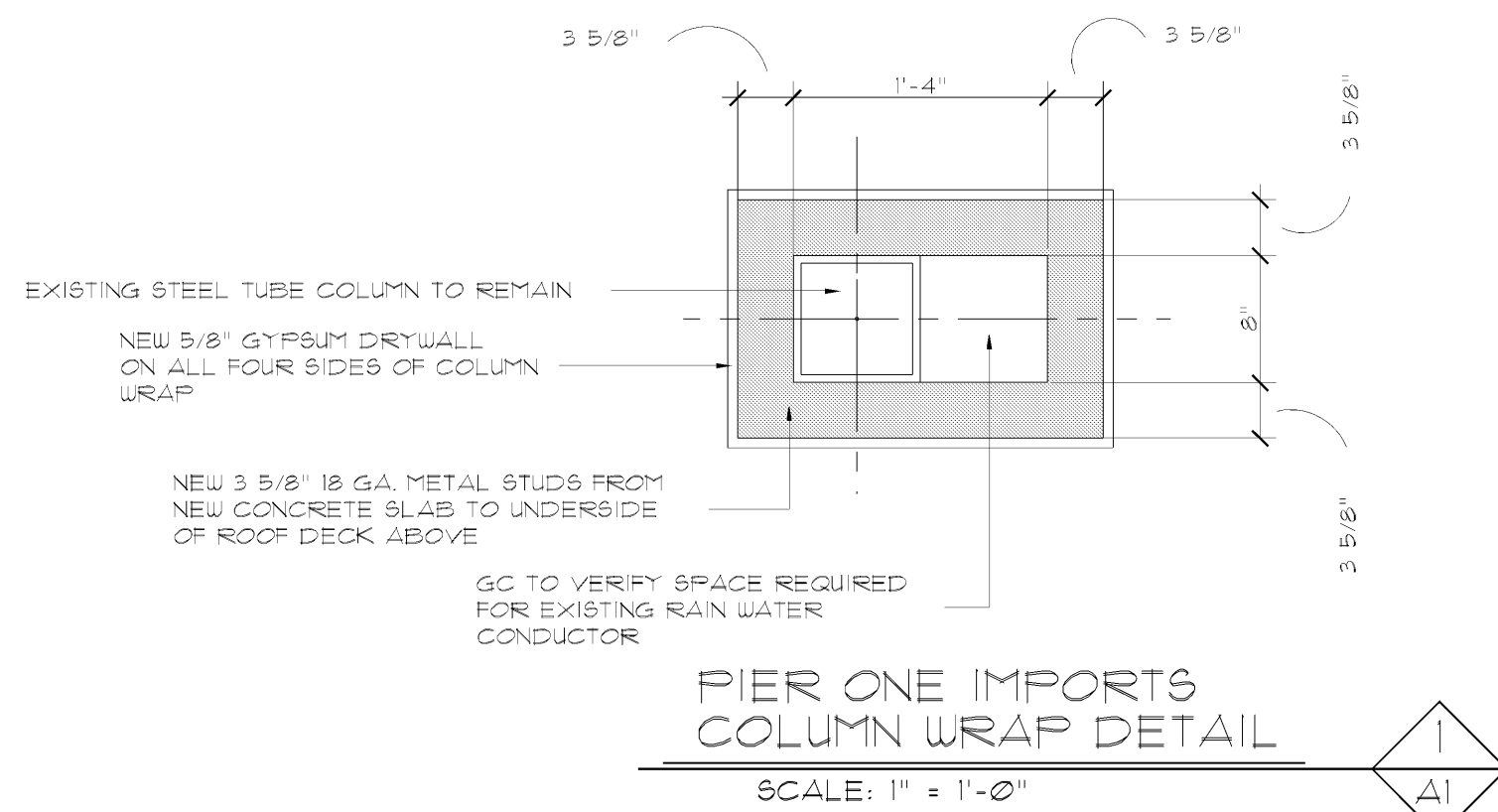
PIER ONE IMPORTS  
FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"

LEGEND

- F.E.** NEW FIRE EXTINGUISHERS TO BE ADDED  
2A-A.B.C. @ 150' SEE SPECIFICATION  
TOTAL OF SEVEN TO BE ADDED
- ETR** EXISTING TO REMAIN
- EX** EXISTING WALLS WITH TENANT SIDE FINISHES  
TO BE ADDED - SEE SHEET A8
- PI** NEW INTERIOR PARTITIONS TO BE ADDED  
SEE SHEET A3 FOR WALL TYPE DETAILS
- D.F.** NEW BI-LEVEL, BARRIER FREE COOLER 4"TV6BL-Q
- FD** NEW FLOOR DRAIN LOCATION, SEE PLUMBING DRAWINGS

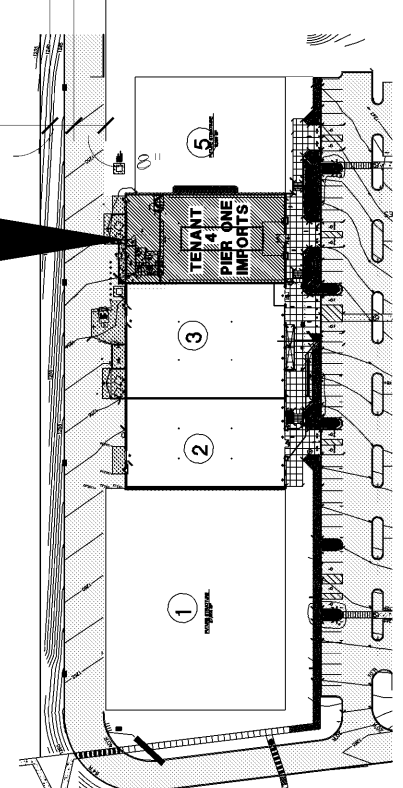
NOTE: ALL DOORS TAGS BEGINNING WITH 'E' ARE EXISTING TO REMAIN

NOTE: REFER TO SHEET A8 FOR EXISTING WALL  
TYPES AND MATERIALS TO BE ADDED



PIER ONE IMPORTS  
COLUMN WRAP DETAIL  
SCALE: 1" = 1'-0"

TENANT #4  
PIER ONE IMPORTS


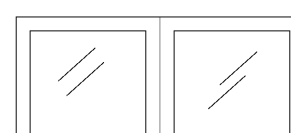


KEY PLAN  
NO SCALE

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	REVISIONS										DATE	NO.	DESCRIPTION	DATE	NO.	DESCRIPTION	DATE	NO.	DESCRIPTION		
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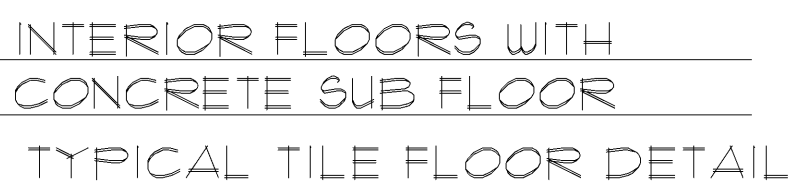
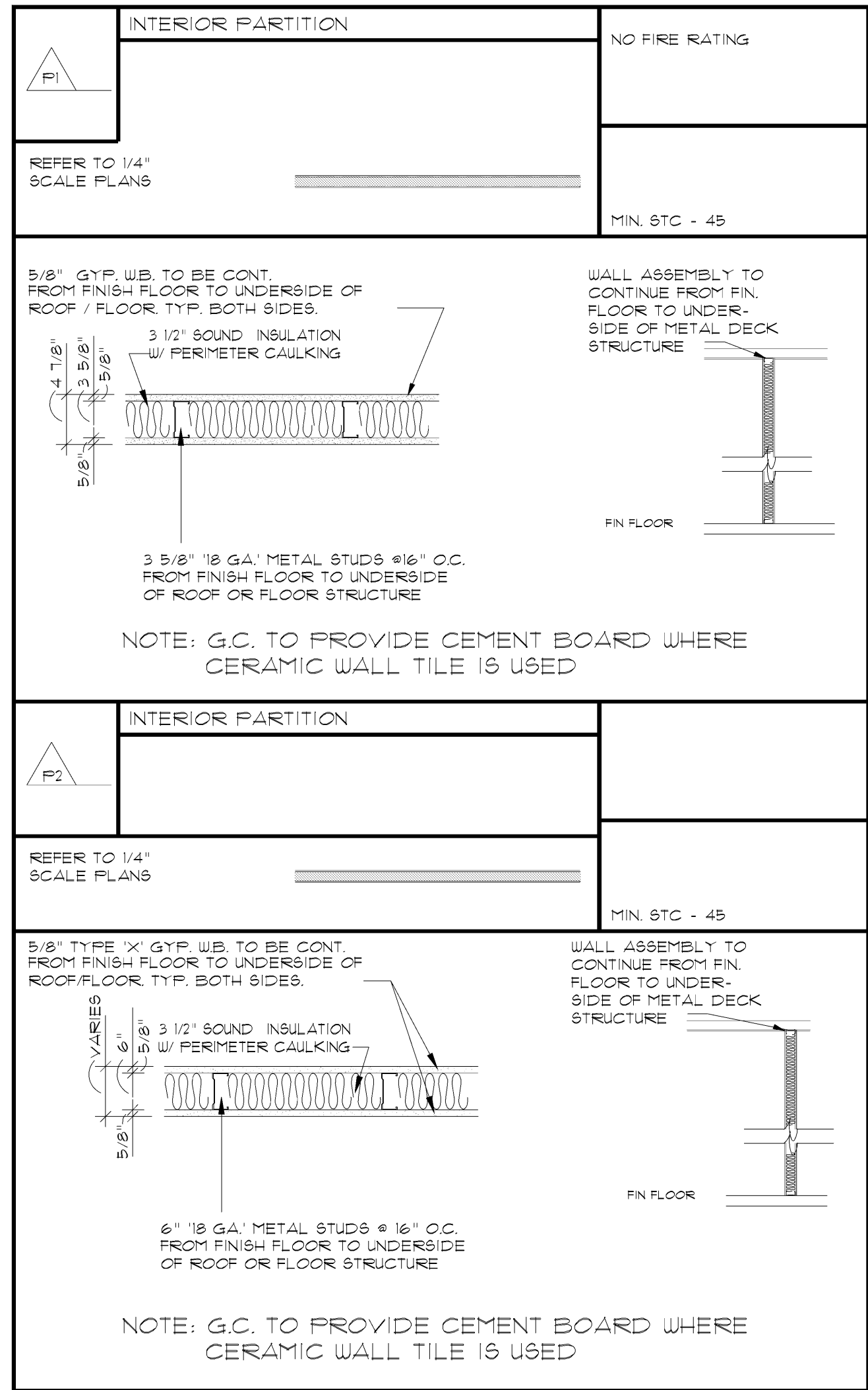




DOOR TYPES				
		<p>12"x12" LOUVER AT DOOR 10'-0"</p> <p>(1) COAT HOOK AT DOORS 5, 6, &amp; 7 (4'-0" AFF)</p> <p>PEEP HOLE AT DOOR 7 ONLY (5'-0" AFF)</p>	<p>SS KICK PLATE BOTH SIDES</p> <p>THERMOPLASTIC BOTH SIDES</p> <p>9"x30" WINDOW</p> <p>30"</p> <p>42"</p>	
	B - HOLLOW METAL	C - SOLID CORE WOOD/HPL	D - ELIASON DOOR	F - STOREFRONT DOOR

- ANY DEVIATION IN EXTERIOR DESIGN APPEARANCE SHALL BE APPROVED IN WRITING BY PIER 1 IMPORTS ARCHITECTURAL DESIGN.
- BUILDING HEIGHT MAY VARY IN ORDER TO MATCH OTHER BUILDING HEIGHTS IN THE SHOPPING CENTER. PIER 1 IMPORTS BUILDING HEIGHT TO BE COMPATIBLE WITH OTHER TENANTS IN THE SHOPPING CENTER.
- ALL COLORS AND FINISHES TO BE SHOWN ON CONSTRUCTION DOCUMENTS.

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REQUIREMENTS:

- ### TILE INSTALLATION AND EXPANSION JOINTS:

INSTALLATION SPECIFICATIONS:  
 \* REFER TO SPECIFICATIONS



TACTILE INTERIOR

- SEE NOTES THIS SHEET FOR BRAILLE SIZE AND TYPE
- LOCATION SYMBOL AT (1) LOCATION:

- SEE NOTES THIS SHEET FOR BRAILLE SIZE AND TYPE
- LOCATION SYMBOL AT (1) LOCATION:

TACTILE INTERIOR

- SEE NOTES THIS SHEET FOR BRAILLE SIZE AND TYPE
- LOCATION SYMBOL AT (4) LOCATIONS:

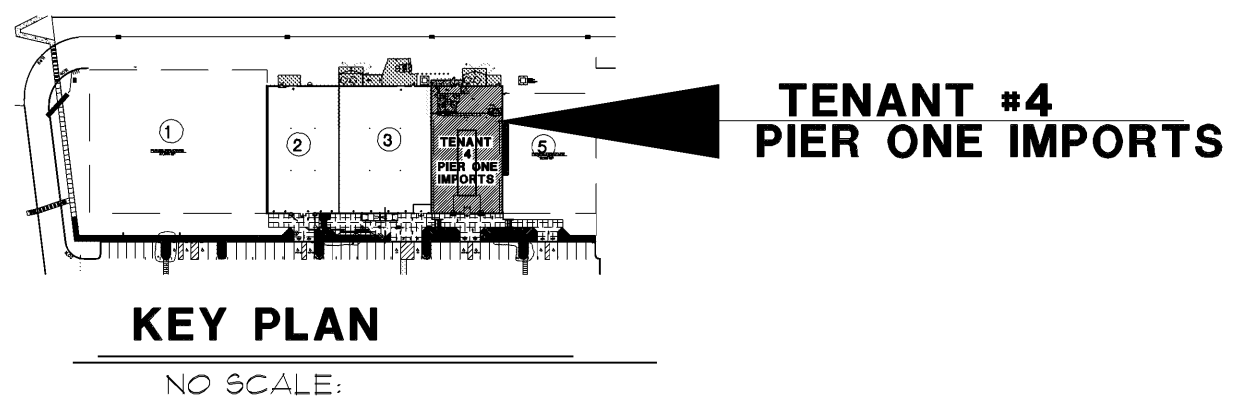
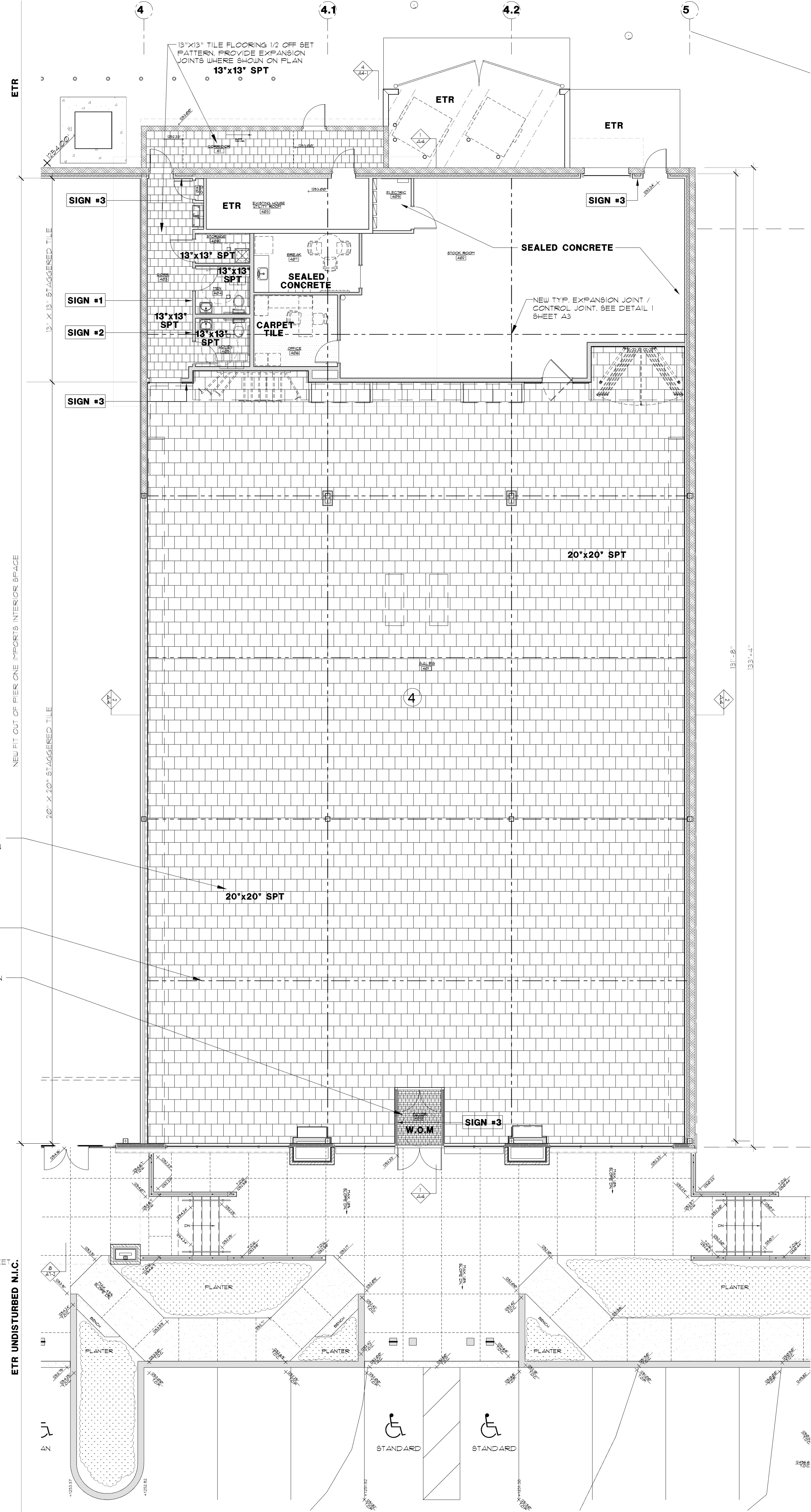
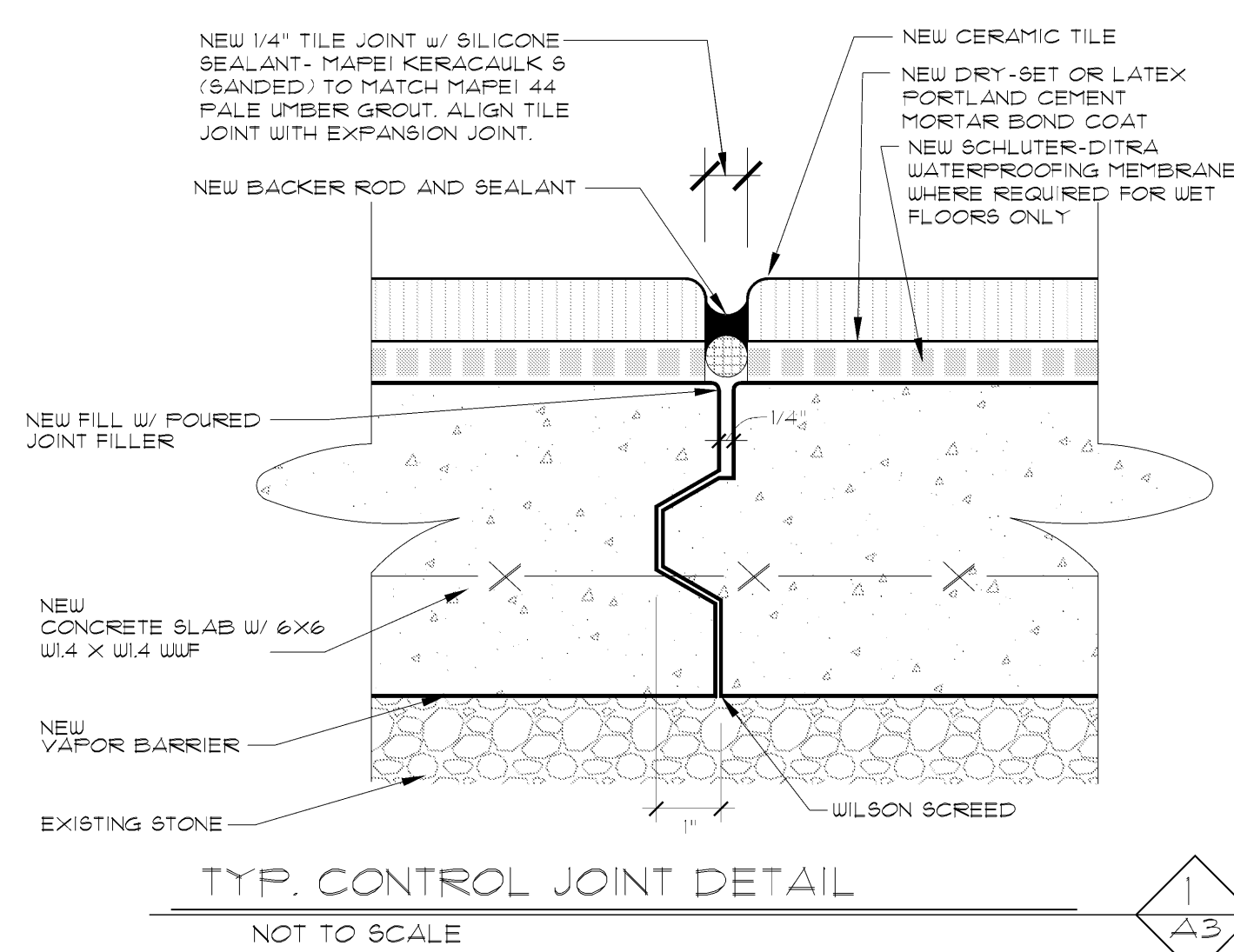
1. SIGNS TO BE CONSTRUCTED TO ANSI Z803 STANDARDS
2. SIGNS SHALL BE MOUNTED SO THAT CHARACTERS SHOULD BE 48 INCHES MINIMUM AND 60 INCHES MAXIMUM ABOVE THE FLOOR MEASURED FROM THE BASELINE OF THE CHARACTERS
3. WHERE A SIGN CONTAINING TACTILE CHARACTERS IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR ON THE LATCH SIDE. SIGNS HAVING TACTILE CHARACTERS SHALL HAVE A 18" X 18" CLEAR FLOOR SPACE BELOW THE SIGN AND CENTERED ON THE SIGN. THE CLEAR SPACE SHALL BE BEYOND THE ARC OF ANY DOOR SWING

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NEW TYP. EXPANSION JOINT / -  
CONTROL JOINT. SEE DETAIL 1  
SHEET A3

PROVIDE NEW WALK-OFF-MATT IN  
DOOR 6'-0" X 7'-6" - DO NOT  
ADD FLOOR TILE WHERE  
MATT OCCURS

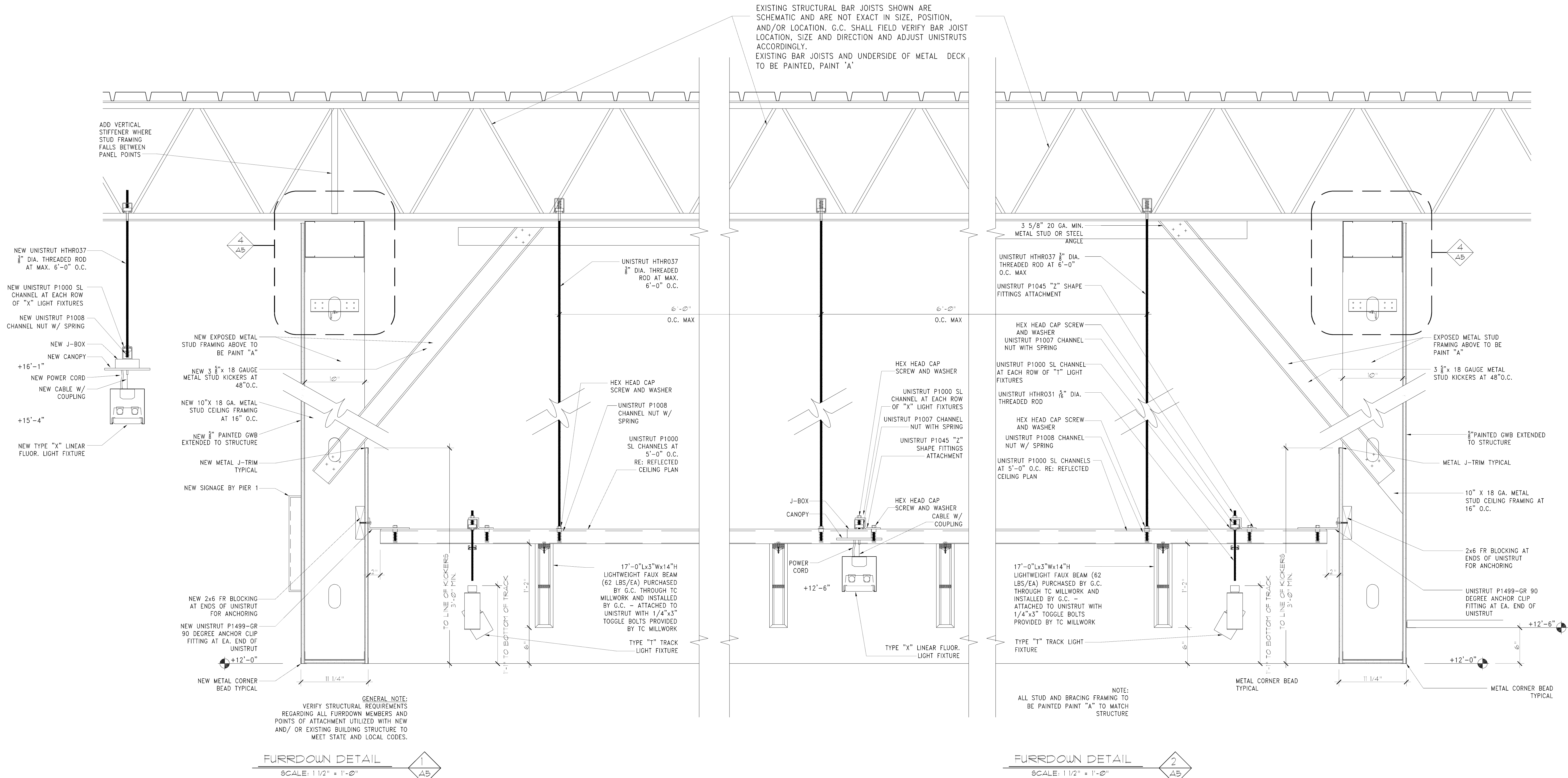


FLOOR PLAN INTERIOR	DATE DEC. 19, 2011
DRAWING NO. DOOR AND WINDOW SCHEDULES AND SIGNAGE DETAILED	PROJ. NO. 1139
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PREFABRICATED PIER ONE IMPORTS "FIT OUT" LOCATED IN TOWN MARKET \$61	
TRINADER JOBS PLAZA	
C/O KEYSTONE REAL ESTATE GROUP LP 444 EAST COLLEGE AVENUE STATE COLLEGE PA 16801	
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REVIEWS	
SHEET NO.	TITLE

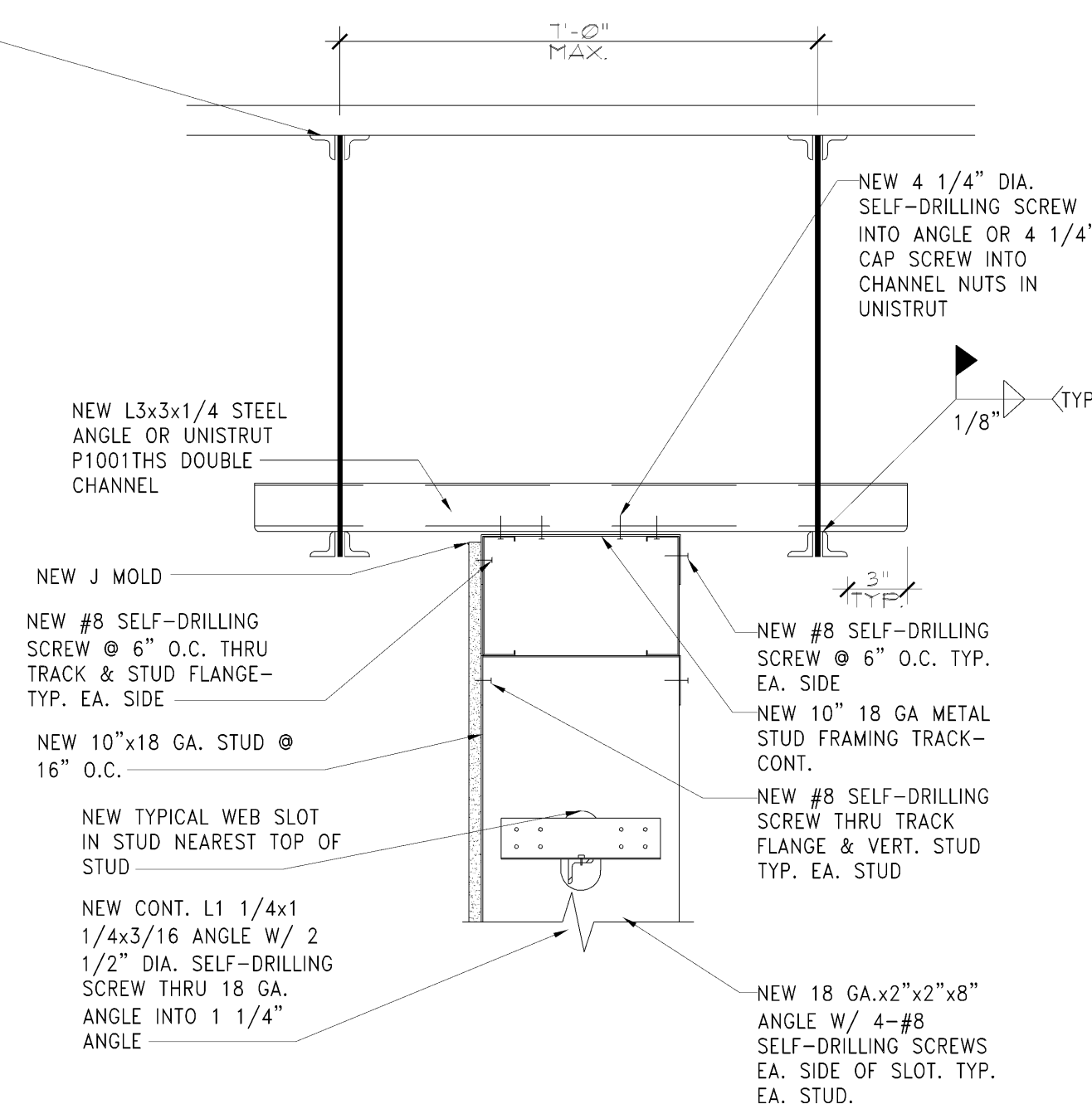
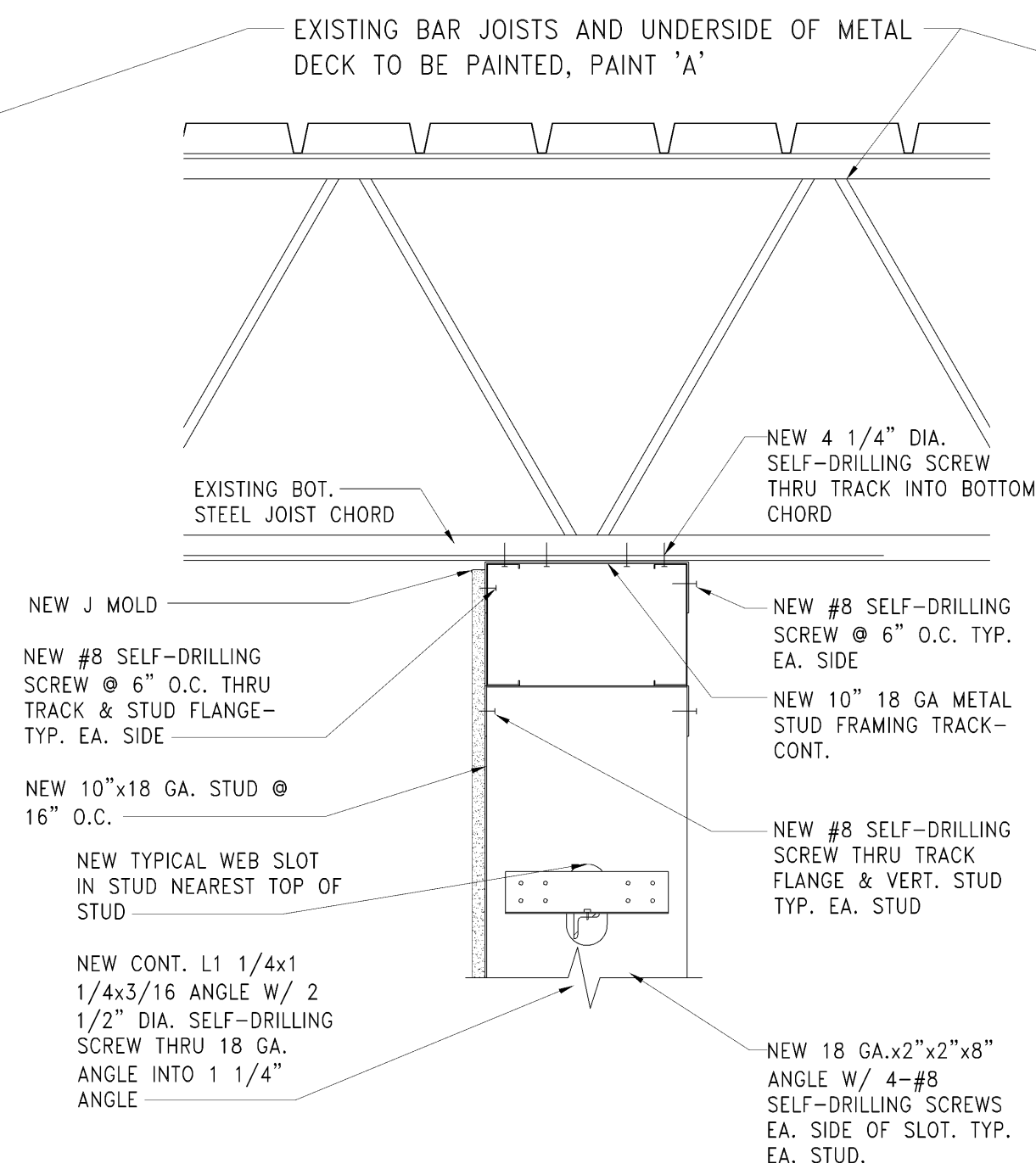
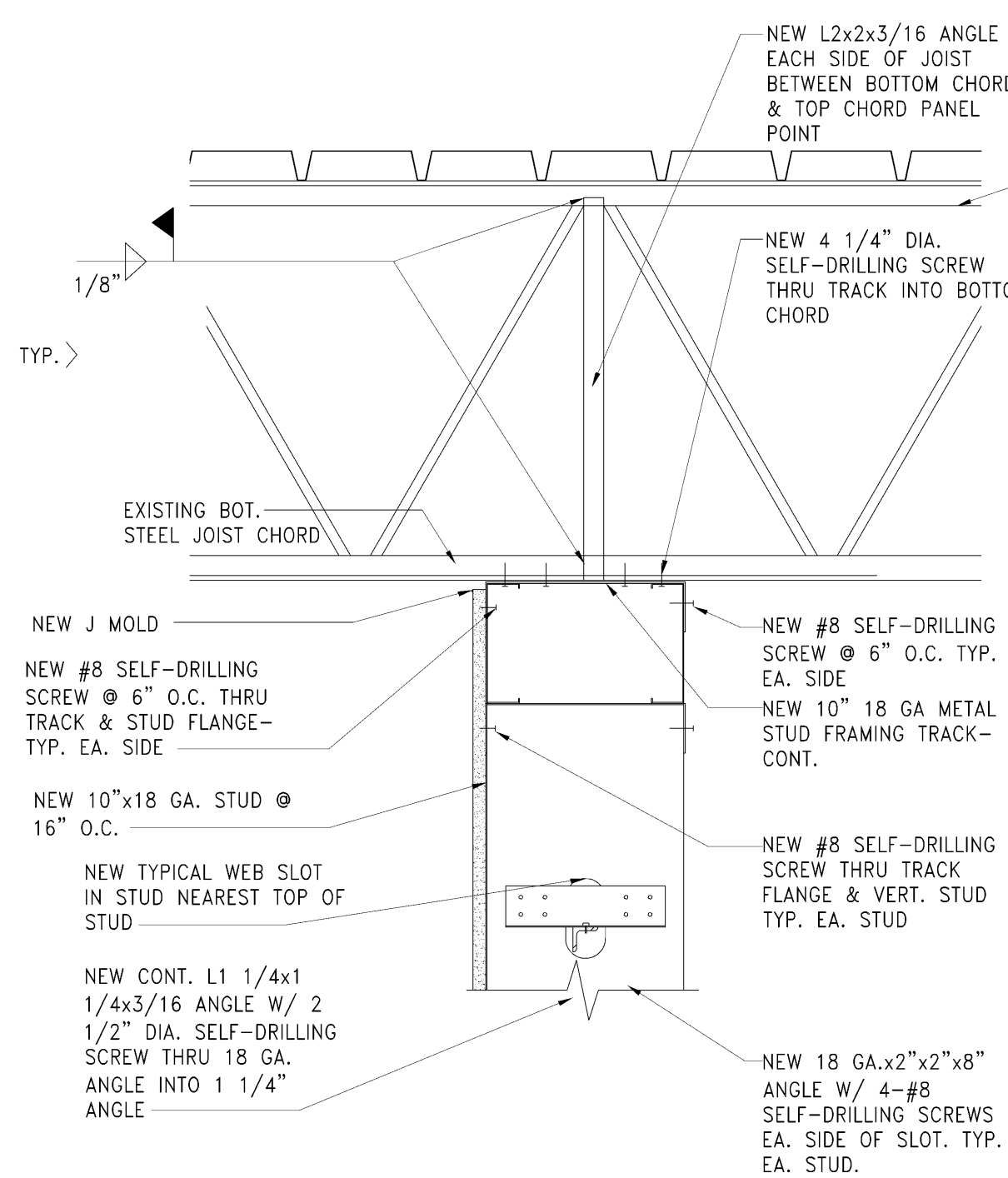








NOTE: BAR JOISTS AND METAL DECKING ARE EXISTING TO REMAIN, ALL OTHER BUILDING MATERIALS ARE NEW (THIS SHEET ONLY)



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LEADER JONES PLAZA  
C/O KEYSTONE REAL ESTATE GROUP, LP  
444 EAST COLLEGE AVENUE  
STATE COLLEGE, PA 16801

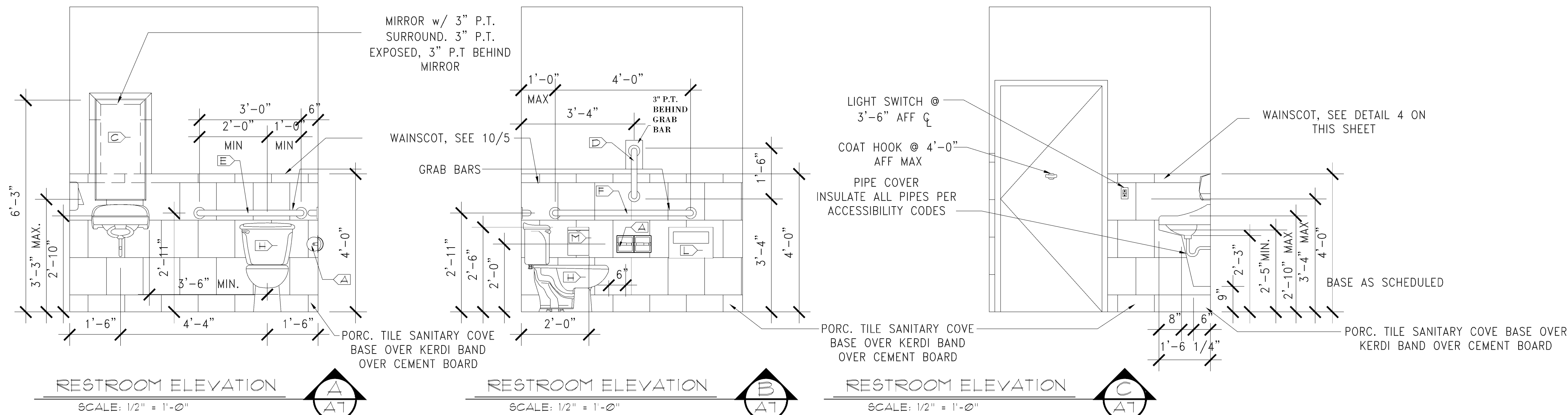
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REVISION  
A5



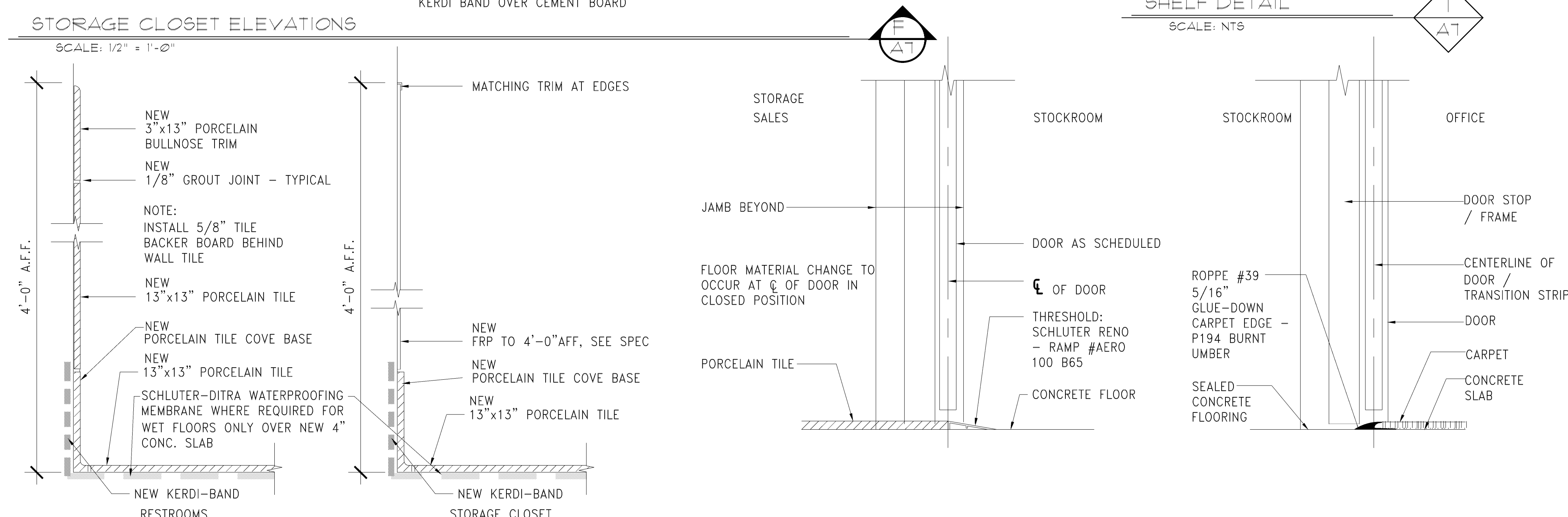
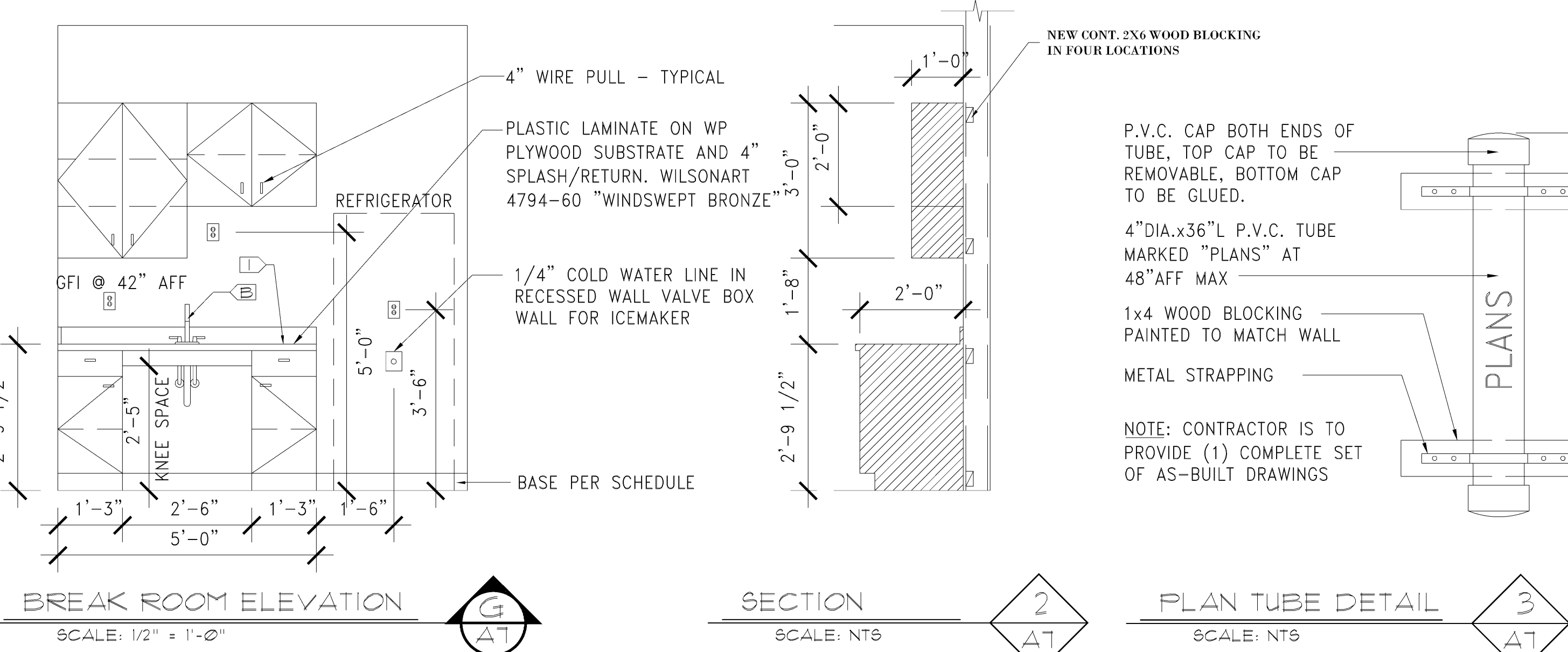
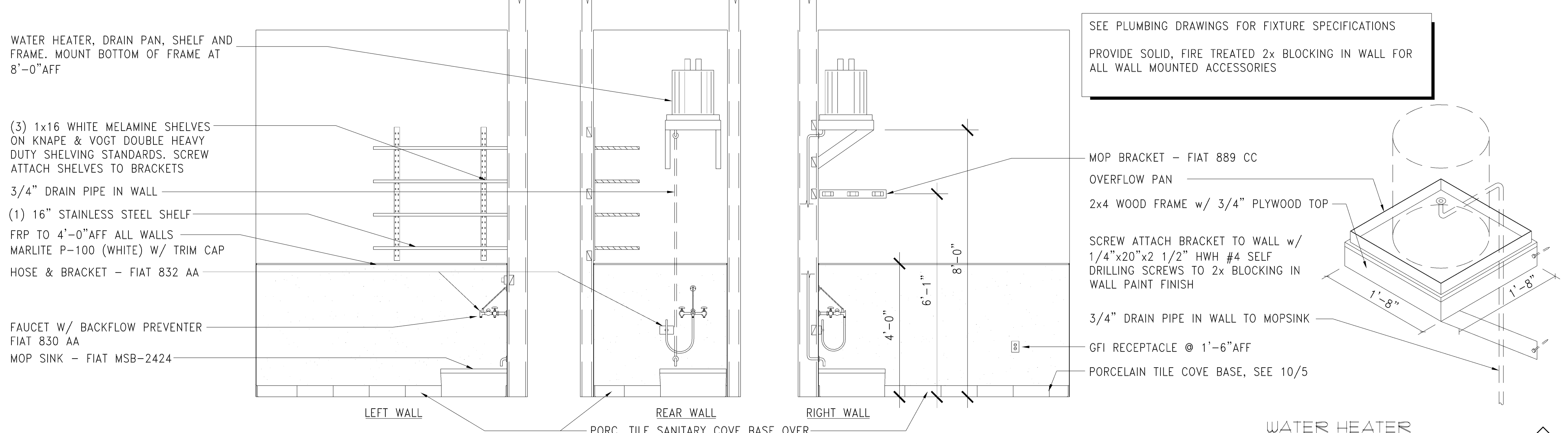
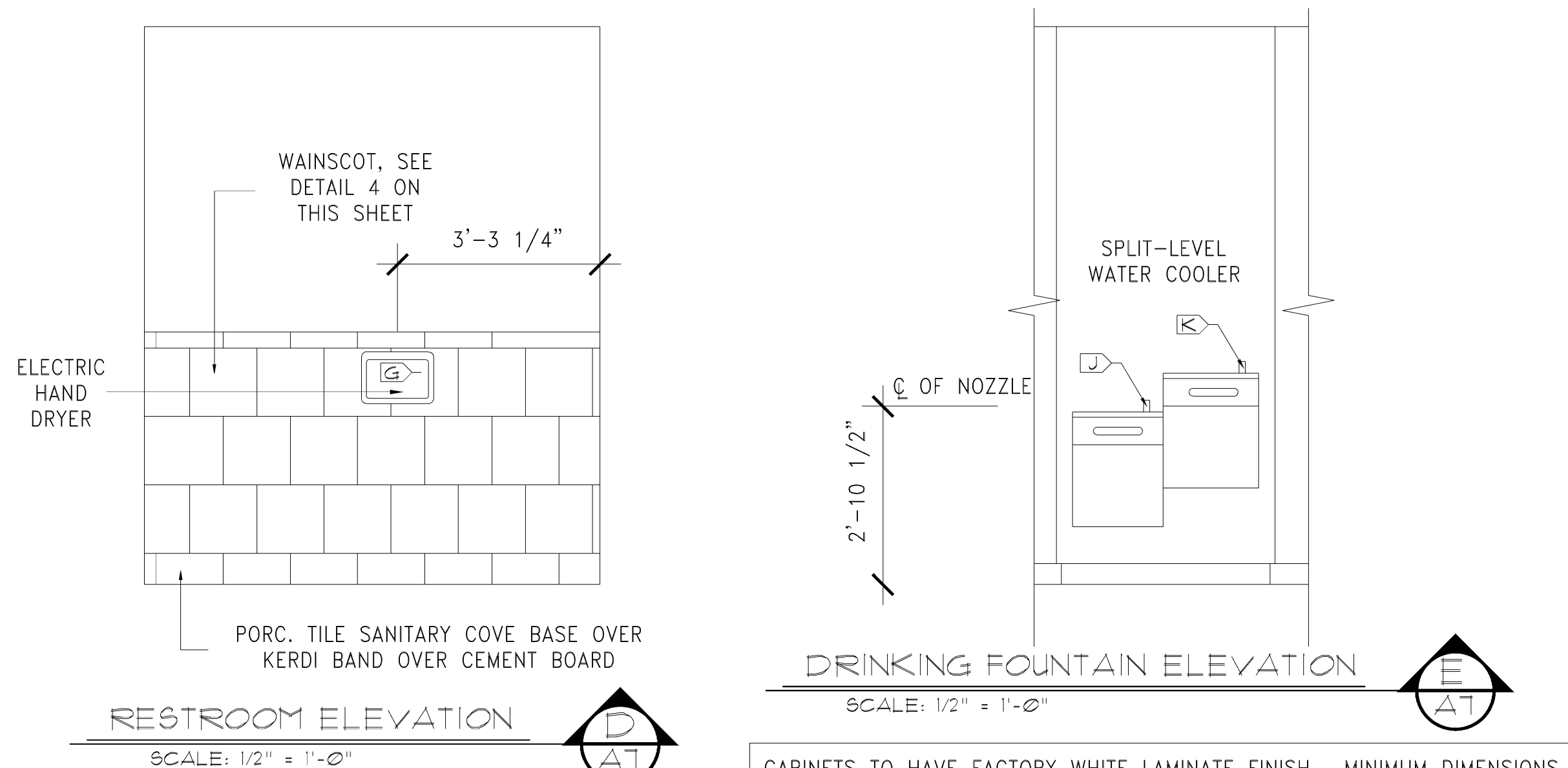




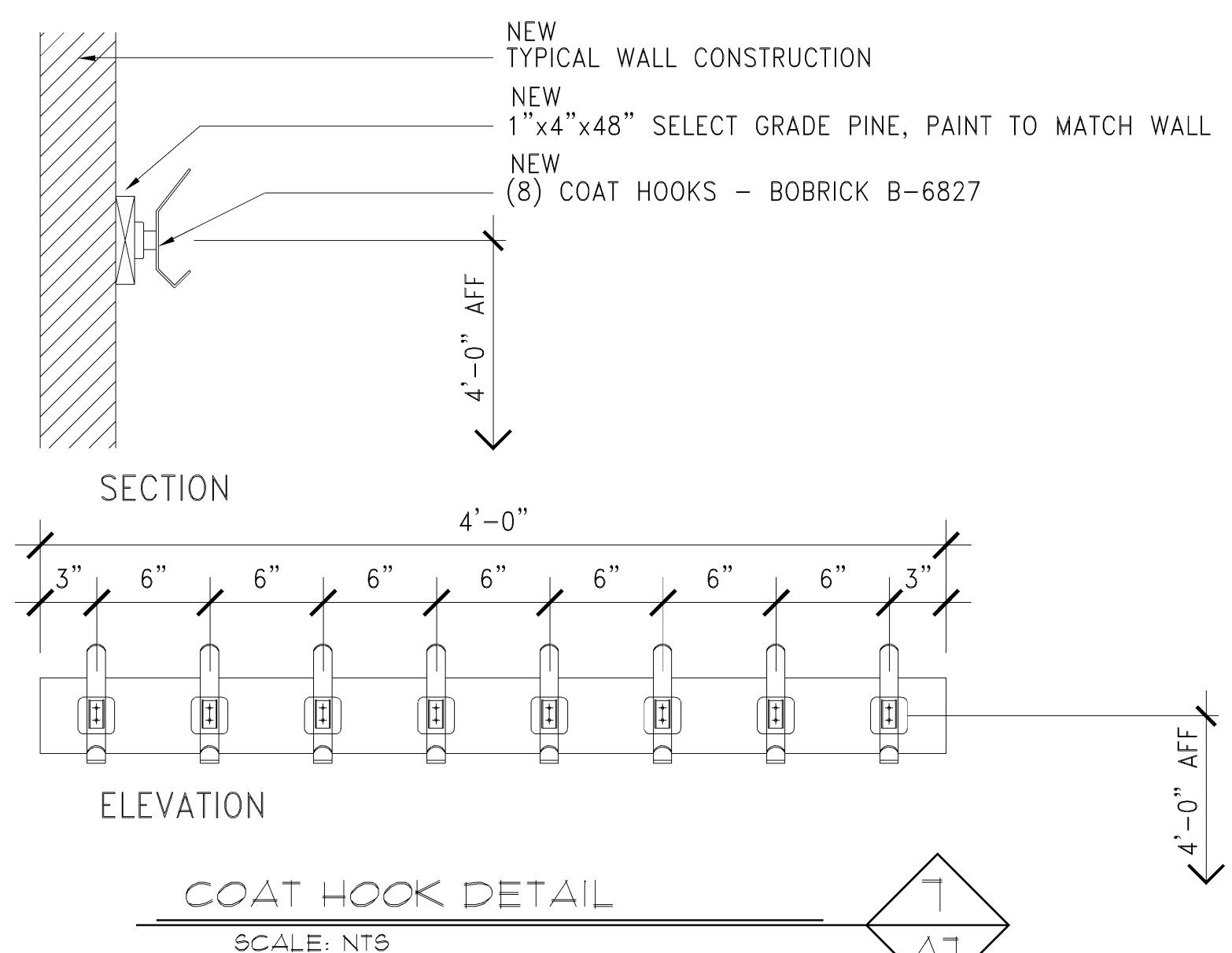
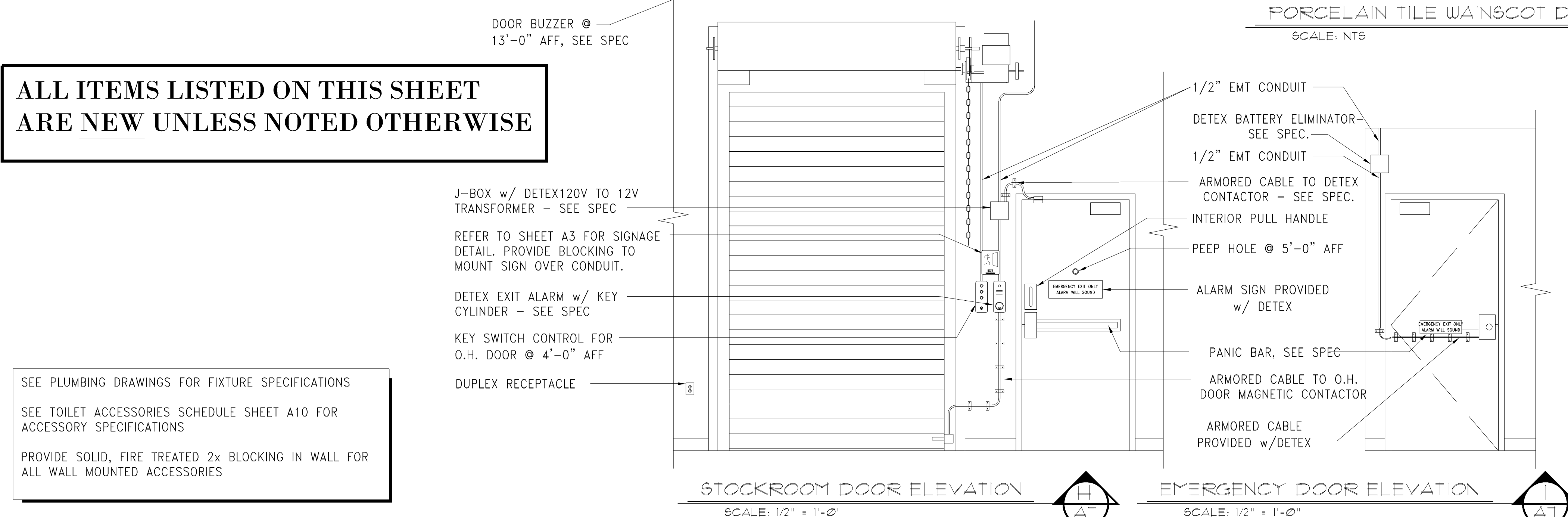


ACCESSORY LEGEND - SHEET A7			
MARK	DESCRIPTION	MOUNTING HEIGHT	REMARKS
A	RECESSED DOUBLE ROLL TOILET PAPER DISPENSER	26" AFF. TO CENTER LINE	1" MIN., 8" MAX. IN FRONT OF THE WATER CLOSET TO CENTERLINE
B	ANSI 1171-2003 APPROVED SINK	MAX 34" TO LIP OF THE SINK	SEE TOP OF COUNTER MARK "L"
C	WALL MOUNTED MIRROR (SEE PLANS FOR SIZE)	BOTTOM OF REFLECTING SURFACE TO BE MAX 40" AFF.	
D	18" L X 1 1/4" DIA. VERTICAL GRAB BAR - SEE NOTE 3	SEE PLANS FOR MOUNTING HEIGHT AND LOCATION	
E	36" L X 1 1/4" DIA. HORIZONTAL REAR GRAB BAR - SEE NOTE 3	34" AFF. TO CENTER LINE (BLOCKING AS REQUIRED)	
F	48" L X 1 1/4" DIA. HORIZONTAL SIDE GRAB BAR - SEE NOTE 3	34" AFF. TO CENTER LINE (BLOCKING AS REQUIRED)	
G	HAND DRYER WITHIN REACH RANGE AS PER ANSI 1171-2003		
H	ANSI 1171-2003 APPROVED WATER CLOSET	TOP OF SEAT TO BE 11" MIN. TO 18" MAX. AFF.	
I	TOP OF THE COUNTER TO BE MAX 33 1/2" ABOVE FINISHED FLOOR - G.C. TO COORDINATE WITH FLOOR FINISH - DEPTH OF COUNTER AND BACKSPLASH TO BE MIN 23 1/2" (TO REACH RANGES)		
J	ANSI 1171-2003 APPROVED DRINKING FOUNTAIN	36" AFF. MAX. TO SPOUT OUTLET FOR WHEELCHAIR ACCESSIBLE	
K	ANSI 1171-2003 APPROVED DRINKING FOUNTAIN	38" MIN AND 43" MAX. AFF. TO SPOUT OUTLET FOR STANDING PERSONS	
L	SEAT COVER DISPENSER		
M	SANITARY NAPKIN DISPENSER (WOMENS ONLY)		

**GENERAL NOTES:**  
 1. MOUNTING HEIGHTS TO BE COORDINATED W/ INTERIOR ELEVATION  
 2. PROVIDE 1"X4" WOOD BLOCKING BEHIND ALL ACCESSORIES  
 3. PROVIDE BLOCKING FOR ALL GRAB BAR LOCATIONS  
 4. G.C. SHALL CONFORM TO ALL DIMENSIONAL RESTRICTIONS - SLIGHT VARIATIONS MAY CAUSE WORK TO BE REMOVED AND REPLACED  
 5. ALL EXPOSED PLUMBING BELOW SINKS TO BE WRAPPED AS REQUIRED BY ANSI 1171-2003



**ALL ITEMS LISTED ON THIS SHEET ARE NEW UNLESS NOTED OTHERWISE**



**REFERENCE SPECIFICATIONS**

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**PROPOSED ONE ONE MARCHETS "FIT OUT" LOCATED IN TRIM SPACE #1**

**TRADER JOBS PLAZA**

C/O KEYSTONE REAL ESTATE GROUP, LP  
444 EAST COLLEGE AVENUE  
STATE COLLEGE, PA 16801

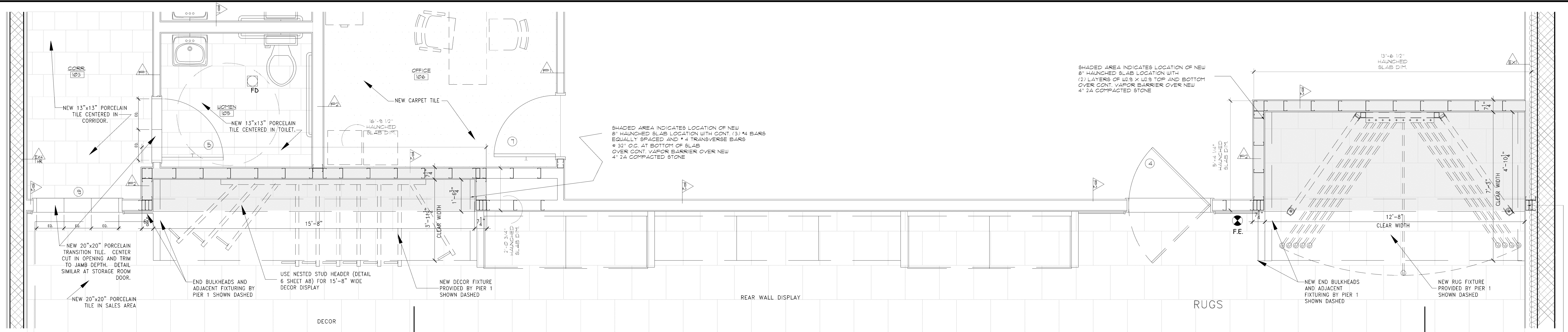
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**INTERIOR ELEVATIONS AND DETAILS**

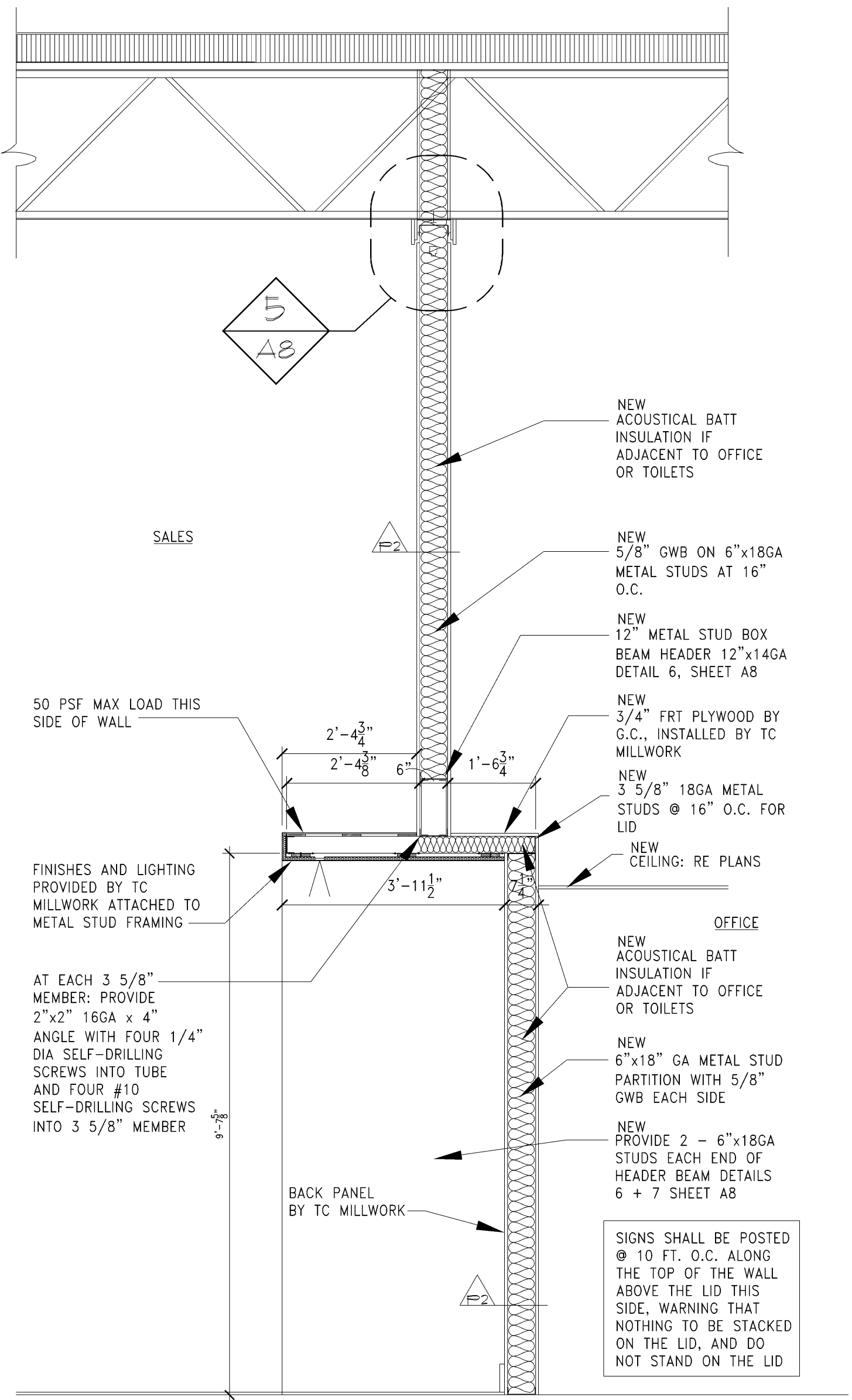
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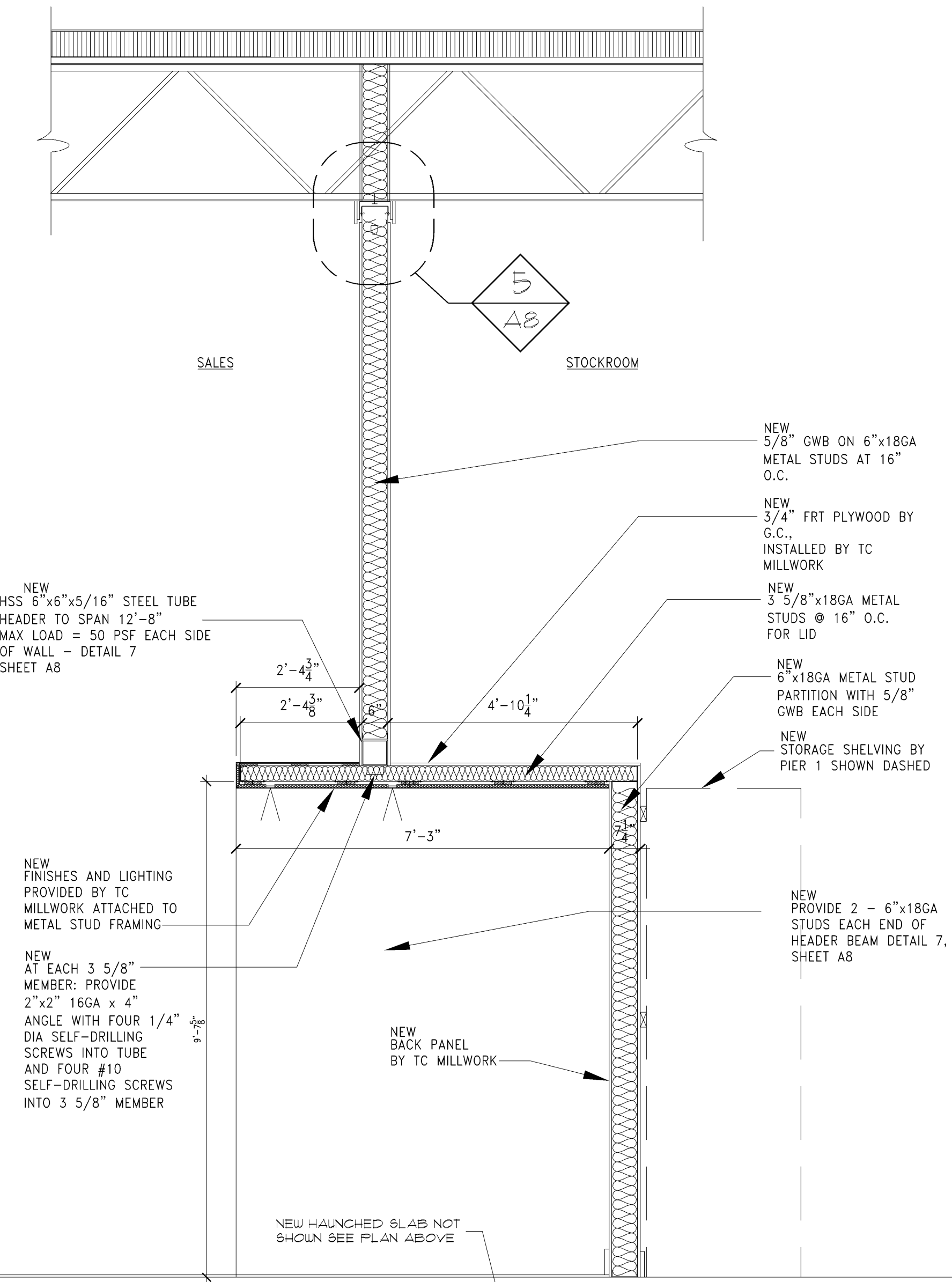




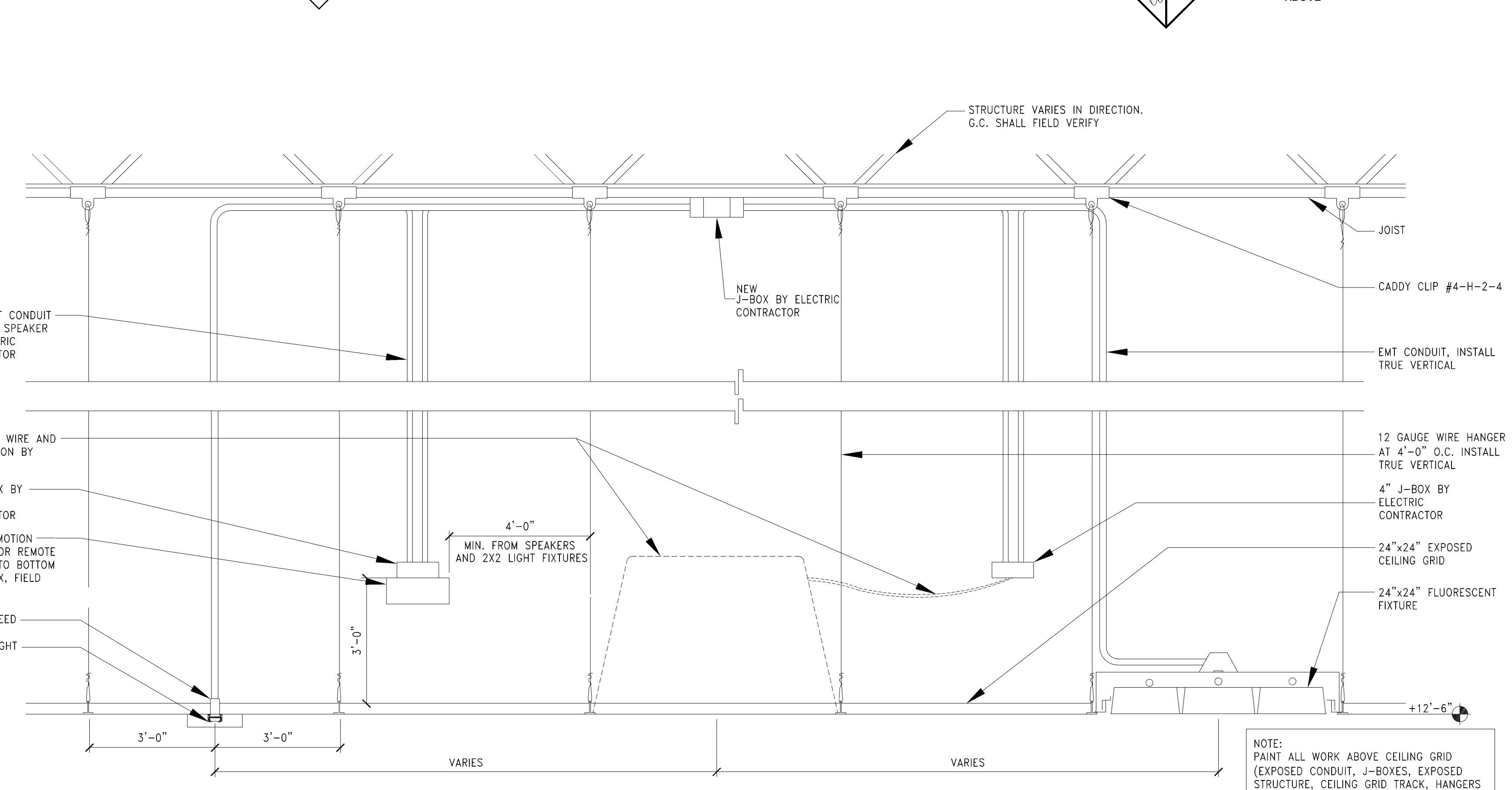
DECOR AND RUG DISPLAY PLAN  
SCALE: 1/2" = 1'-0"



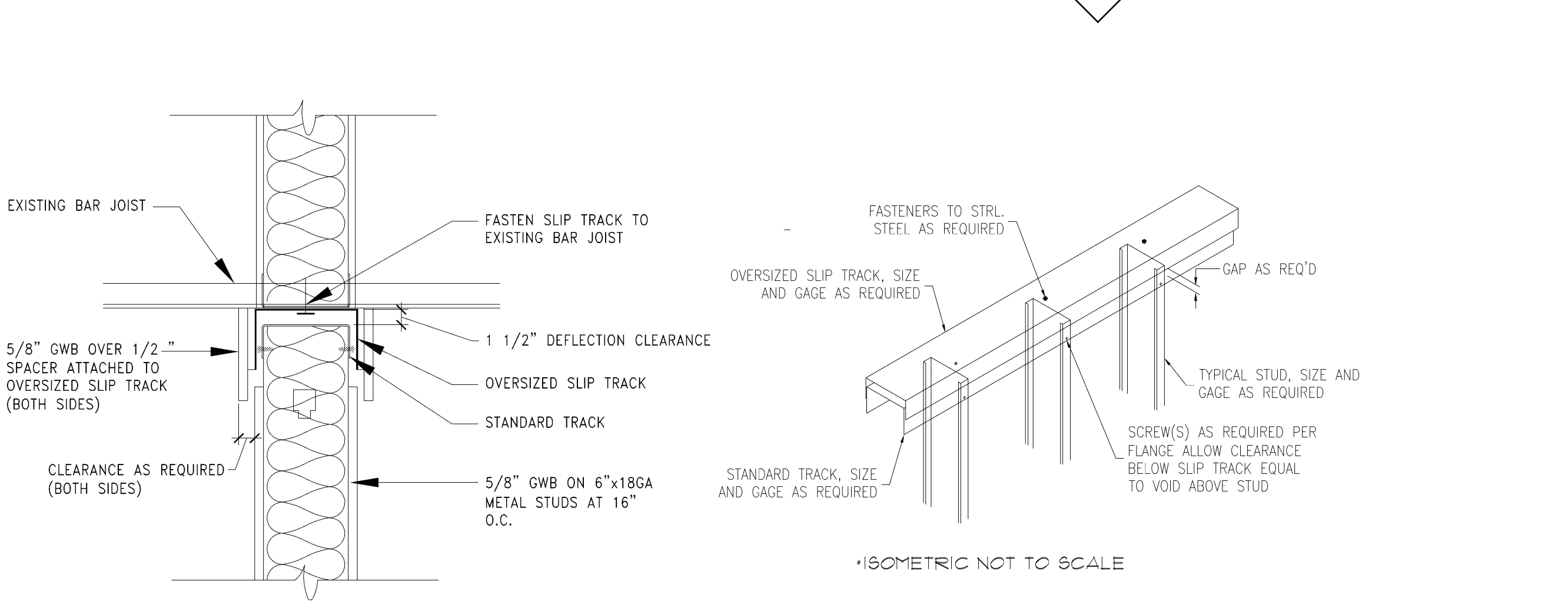
SECTION THROUGH DECOR DISPLAY RECESS - TYP.  
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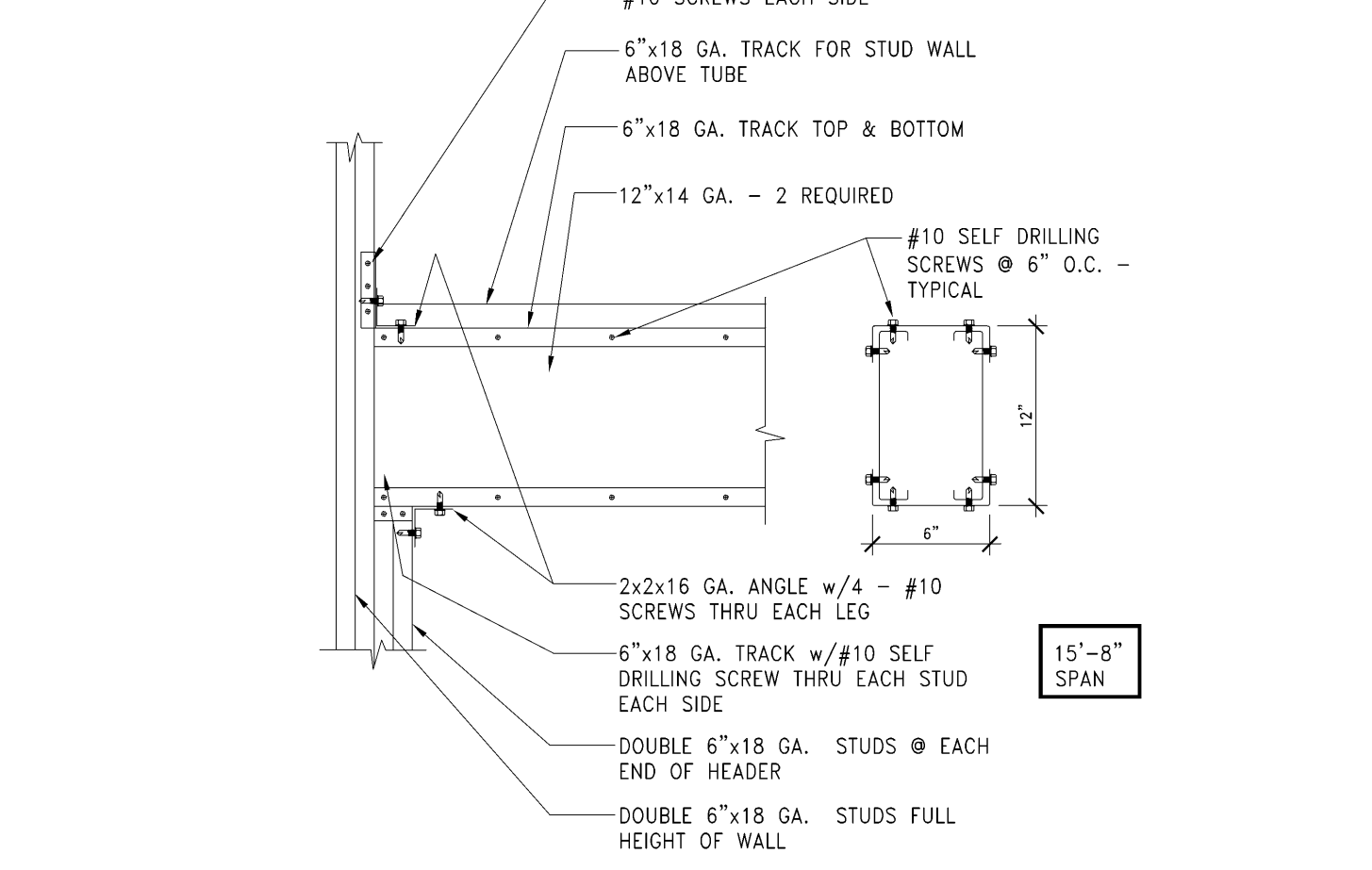
SECTION THROUGH RUG DISPLAY RECESS - TYP.  
SCALE: 1/2" = 1'-0"



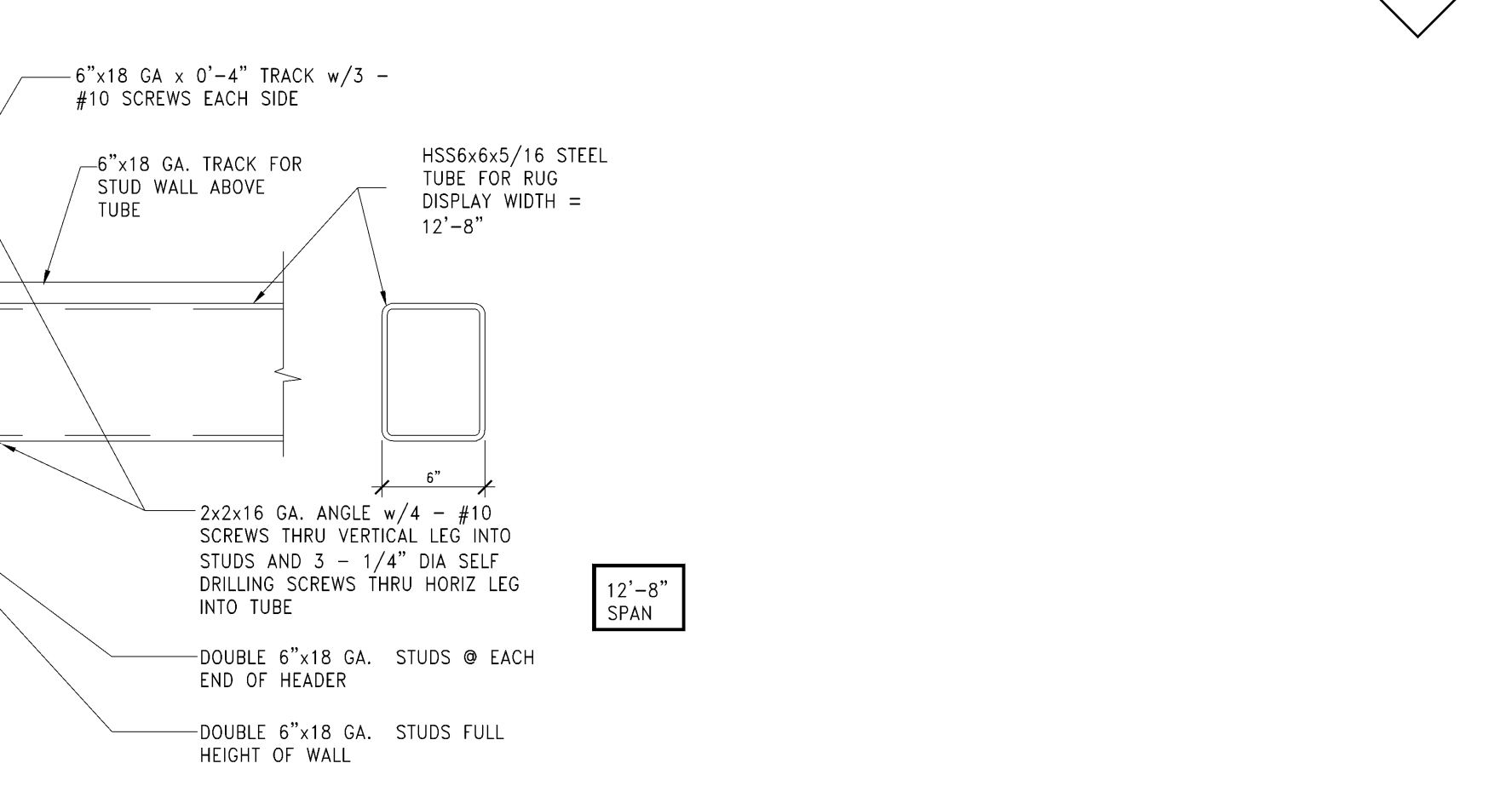
M' FIXTURE, TRACK AND SPEAKER DETAIL  
SCALE: 1/2" = 1'-0"



TYP. SLIP TRACK SYSTEM DETAIL  
SCALE: 1/2" = 1'-0"



DECOR HEADER DETAIL  
N.T.S.



RUG AND DECOR HEADER DETAIL  
N.T.S.

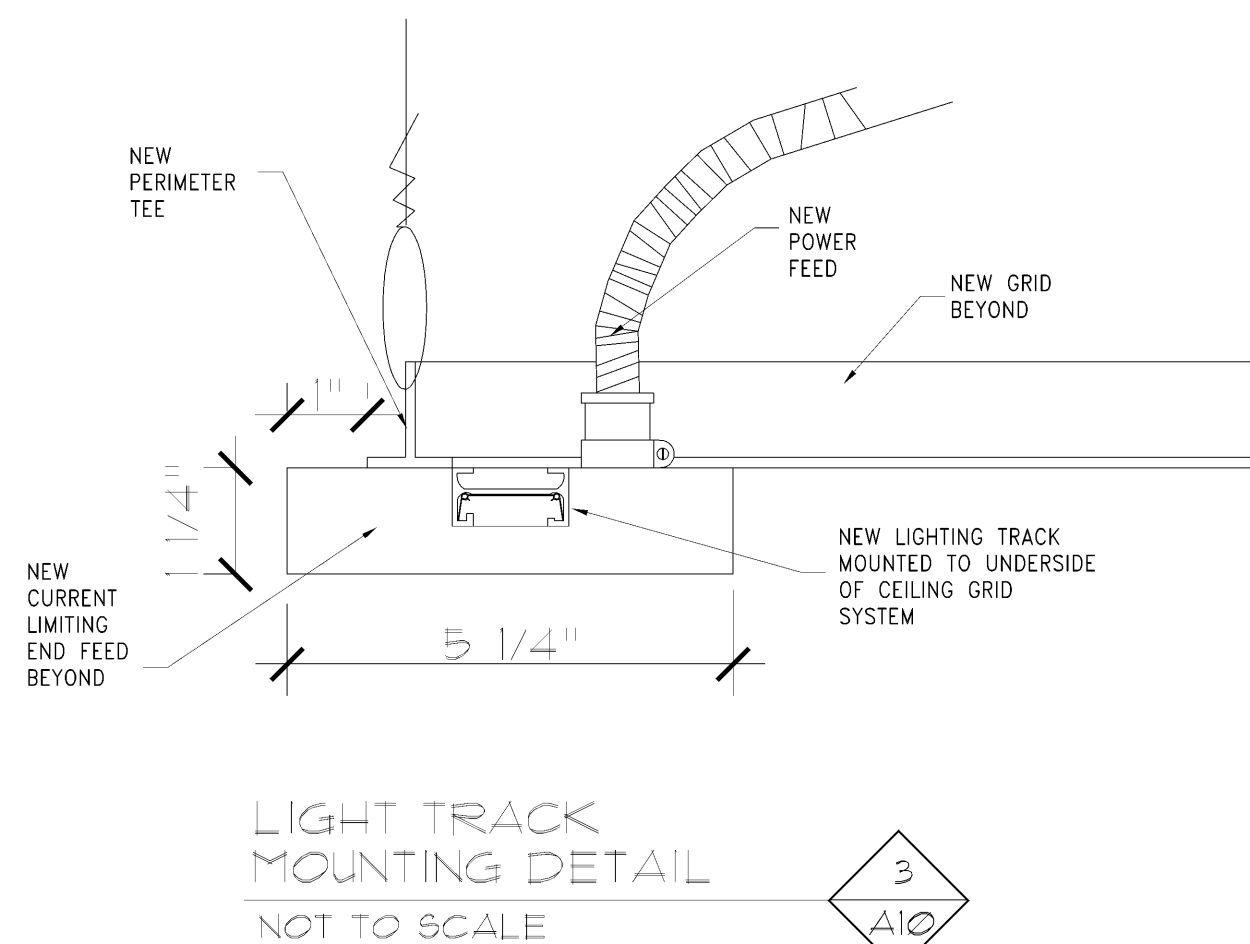
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<b>REFERENCE SPECIFICATIONS</b> REVISIONS NO. DATE BY		<b>PIER 1 REVIEW SET</b> NOT FOR CONSTRUCTION PROPOSED OVER ONE MONTHS "PIT OUT" LOCATED IN TENT SUBS 84 <b>TRADER JOBS PLAZA</b> C/O KEYSTONE REAL ESTATE GROUP LP 444 EAST COLLEGE AVENUE STATE COLLEGE, PA 16801	<b>FERNISLER - ARCHITECTURE, LLC</b> ARCHITECTURE - MANAGEMENT - ENGINEERING 521 EAST BEAVER AVE. STATE COLLEGE, PA 16801 PHONE (814) 234-8806 FAX (814) 234-0066 EMAIL: ffernisl@comcast.net
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DATE DEC. 19, 2011 PROJ. NO. 1193		DATE DEC. 19, 2011 PROJ. NO. 1193	





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<p><b>PROPOSED PER ONE IMPORTS "FIT OUT"</b> LOCATED IN TRIMT SPACE #4</p> <p><b>PIER 1 REVIEW SET</b> <b>NOT FOR CONSTRUCTION</b></p>	
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REFERENCE SPECIFICATIONS	NO.
DATE	BY



8.10 FLUSH INTERIOR WOOD DOORS (PLASTIC LAMINATE NEVAMAR WZ2007PV): 1-3/4" THICK; SOLID CORE 5 PLY, HOT PRESS LAMINATED CONSTRUCTION WITH STILES AND RAILS BONDED TO CORE; CUSTOM GRADE PER AWI OR WIC STANDARDS; FACE VENEERS AND VERTICAL EDGE BANDS SHALL BE PG BIRCH. PROVIDE LOUVER AT DOORS AS SHOWN ON DRAWINGS. ACCEPTABLE MANUFACTURERS ARE BUELL, EGGERS, ALGOMA, AND WEYERHAEUSER.

9.1 TILE INSTALLATION SYSTEM TO BE PANTHEON COMPLETE. GROUT IS TO BE MAPEI ULTRACOLOR PLUS, SANDED. MORTAR TO BE MAPEI ULTRAFLEX LFT. INSTALL MAPEI MAPELASTIC CI ROLL ON CRACK ISOLATION MEMBRANE AT ALL CRACKS AS REQ'D. ALL EXTRA FULL TILES SHALL REMAIN AT STORE. ALL CONTROL AND EXPANSION JOINTS SHALL HAVE TILE JOINT ABOVE FILLED WITH SILICONE SEALANT. COLOR TO MATCH GROUT COLOR. ALL EXPANSION JOINTS SHALL BE 24'-0" - 32'-0" O.C.

9.2 2x4 SELECT FINISH GRADE PINE ANCHOR TRIM SHALL BE FURNISHED AND INSTALLED AS INDICATED ON THE DRAWINGS. FILL ALL NAIL AND SCREW HOLES. PAINT TO MATCH WALLS. HOLD BACK 2'-4" FROM ALL OPENINGS

9.3 ALL INTERIOR PARTITIONS SHALL BE 5/8" TYPE X GYPSUM BOARD OVER 3 5/8" OR 6" METAL STUDS AT 16" ON CENTER. PARTITIONS INDICATED ON PLAN TO GO TO ROOF DECK SHALL EXTEND TO BOTTOM OF ROOF DECK AND SEAL TIGHT. GYPSUM BOARD MAY TERMINATE 6" ABOVE FINISHED CEILING EXCEPT WHERE CEILING IS OPEN TO STRUCTURE. WHERE CEILING IS OPEN TO STRUCTURE, GYPSUM BOARD MUST EXTEND TO DECK. EXPANSION JOINTS SHALL BE USED EVERY 28'-0" MAX.

9.4 ALL GYPSUM BOARD WALLS SHALL BE PROPERLY PREPARED PRIOR TO THE APPLIED FINISH. APPLY ORANGE PEEL TEXTURE BY ROLLER TO ALL WALLS BEFORE PAINTING. SUBMIT TEXTURE SAMPLE TO PIER 1 FOR APPROVAL.

9.5 SALES AREA WALLS SHALL BE UNOBSTRUCTED TO 12'-0" AFF. NO INTERIOR FURR OUTS OR OTHER PROTRUSIONS WILL BE ACCEPTED.

9.6 FIBERGLASS REINFORCED PANELS (FRP) IS TO BE INSTALLED ON ALL STORAGE CLOSET WALLS. INSTALL FRP HORIZONTALLY ALONG TOP OF COVE BASE. TRIM TOP AND BOTTOM EDGE OF FRP WITH CONTINUOUS J-MOLDING. TRIM FRP INSIDE AND OUTSIDE CORNERS WITH APPROPRIATE TRIM. VERTICAL JOINTS IN FRP ARE ONLY TO OCCUR AT CORNERS. MANUFACTURER: MARLITE. COLOR: P-100 WHITE.

9.7 ALL PAVEMENT MARKINGS ARE TO BE PAINTED WHITE (PARKING STALLS) AND RED (FIRE LANES) UNLESS OTHERWISE REQUIRED BY LOCAL CODES.

9.8 PROVIDE AND INSTALL ACOUSTICAL CEILING AS INDICATED ON THE FINISH SCHEDULE

9.9 RUBBER BASE TO BE ROPPE TS RP194 BURNT UMBER 1/8" VULCANIZED SBR RUBBER.

9.10 CARPET TILE TO BE FLOR TWO OF HUE 101-211192, COLOR 09 PEWTER, QUARTER TURN LAYOUT

9.11 PAINT MANUFACTURER: CONTRACT DOCUMENTS ARE BASED ON PRODUCTS BY SHERWIN WILLIAMS COMPANY FURNISH ALL PAINTS BY THE SAME MANUFACTURER UNLESS SPECIFIED OTHERWISE.

ATTIC STOCK; CONTRACTOR TO PROVIDE THE FOLLOWING ITEMS TO REMAIN ON STORAGE ROOM SHELVES:	
1 BOX OF 13x13 FLOOR TILE	12 PC. OF CARPET TILE
25 PC. +/- OF 20x20 FLOOR TILE (1 FULL CASE)	1 GAL. OF EACH COLOR OF PAINT
1 BOX OF TILE COVE BASE	10% OF EACH TYPE OF LIGHT BULB
1 BOX OF CEILING TILE	

9.12 INTERIOR PAINTING SCHEDULE:

SUBSTRATE	PRIMER	TOP COAT
GYPSUM BOARD "B"	(1) COAT PROMAR 200 LATEX WALL PRIMER	(2) COATS PROMAR 200 ACRYLIC LATEX, EGGSHELL FINISH
GALVANIZED METALS	(1) COAT DTM B66 WITH ACRYLIC PRIMER AT 3.0 MILS DFT	(2) COATS DTM ACRYLIC COATING SEMI GLOSS FINISH
FERROUS AND GALVANIZED METALS AT EXPOSED ROOF STRUCTURE WIRES /HANGERS /CONDUIT	(1) COAT DTM B66 WITH ACRYLIC PRIMER AT 3.0 MILS DFT	(2) COATS DRYFALL WHITE FLAT FINISH (B4ZW1)
FERROUS METALS AT OTHER LOCATIONS	(1) COAT DTM B66 WITH ACRYLIC PRIMER AT 3.0 MILS DFT	(2) COATS CLASSIC 99 ALKYD SEMI GLOSS FINISH
OTHER WOOD	(1) COAT WALL AND WOOD PRIMER	(2) COATS PROMAR 200 INTERIOR ALKYD, EGGSHELL FINISH
CONCRETE FLOOR	INCRETE SYSTEMS "CLEARSEAL" WITH LIGHT GREY TINT OR PIER 1 IMPORT APPROVED SUBSTITUTE. APPLY PER MANUFACTURER'S RECOMMENDATIONS.	

10.1 CONTRACTOR TO PROVIDE AND INSTALL A MINIMUM OF (6) 10 POUND A.B.C. TYPE PORTABLE FIRE EXTINGUISHERS WITH MOUNTING BRACKET PER LOCAL CODE. THE EXACT LOCATION OF THESE DEVICES SHALL BE DETERMINED BY THE LOCAL FIRE MARSHAL AT THE TIME OF FINAL INSPECTION FOR CERTIFICATE OF OCCUPANCY

10.2 IF SHOWN ON PLAN, PROVIDE AND INSTALL FLOOR MOUNTED TOILET PARTITIONS WITH CUSTOM HPL PLASTIC LAMINATE FINISH.

### 10.3 RESTROOM ACCESSORIES:

DESCRIPTION	CATALOG NUMBER	QUANTITY
ELECTRIC HAND DRYER	BOBRICK B-7128 115 VAC, 15 AMP	(1) PER RESTROOM
TOILET TISSUE DISPENSER	BOBRICK B-6977	(1) PER WATER CLOSET
SANITARY NAPKIN DISPOSAL	BOBRICK B-270	(1) PER WOMENS WATER CLOSET
MIRROR	BOBRICK B-165, 18 X 36 INCH	(1) PER LAVATORY
GRAB BARS	BOBRICK B-6806X18	(1) PER WATER CLOSET
	BOBRICK B-6806X36	(1) PER WATER CLOSET
	BOBRICK B-6806X48	(1) PER WATER CLOSET
DOUBLE ROBE HOOK	BOBRICK B-6727	(1) PER RESTROOM
SEAT COVER DISPENSER	BOBRICK B-221	(1) PER WATER CLOSET

12.1 RETAIL MERCHANDISING EQUIPMENT, STORE FIXTURES, DISPLAYS, SHELVING, FURNISHINGS AND CASH WRAP SHALL BE PERMITTED, FURNISHED AND INSTALLED BY PIER 1 IMPORTS.

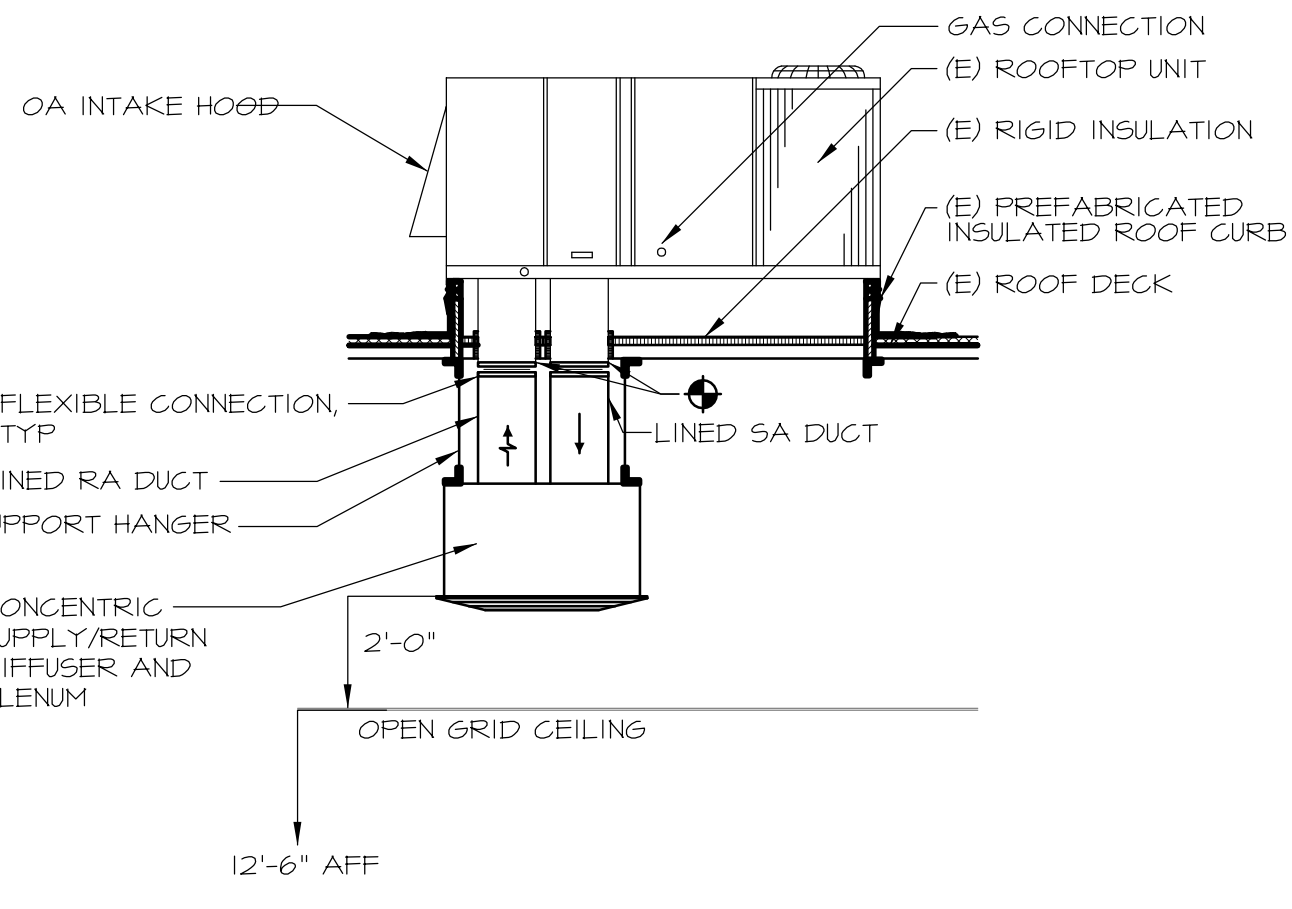
12.2 6'-8"x6'-8" WALK-OFF MAT AT ENTRY DOORS TO BE PURCHASED FROM GRAND ENTRANCE. REFER TO CONTACT LIST ON SHEET 1. MAT SHALL BE INSTALLED AT TILE LEAVE-OUT, CENTERED ON DOORS.

12.3 FURNISH AND INSTALL CABINETS AS SHOWN ON THE DRAWINGS (BREAK ROOM). BASE AND UPPERS SHALL RECEIVE PLASTIC LAMINATE, FACTORY WHITE HPL, OR APPROVED EQUAL. WORK SURFACE SHALL RECEIVE PLASTIC LAMINATE, WILSONART #4794-60 WINDSWEEP BRONZE. HARDWARE SHALL INCLUDE US10B WIRE PULLS, FULLY ADJUSTABLE CONCEALED HINGES, AND METAL DRAWER GLIDES WITH NYLON ROLLERS.

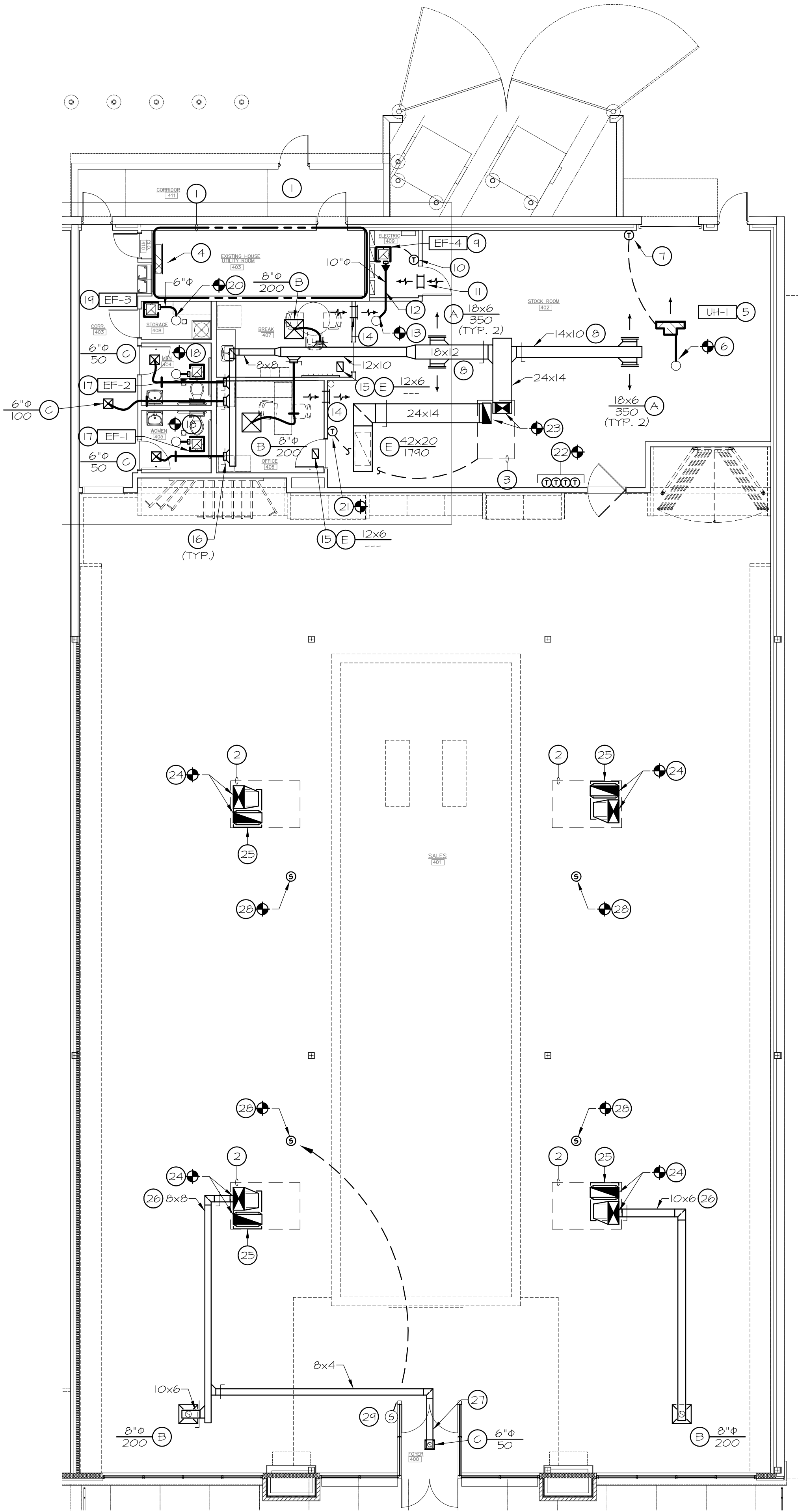
13.1 SALES AREA BEAMS SHALL BE PROVIDED SUSPENDED BY GENERAL CONTRACTOR. CONTACT TC MILLWORK, RE: CONTACTS TABLE, SHEET 1 FOR MATERIAL ORDER. BEAMS SHALL BE ATTACHED TO WHITE UNISTRUT THAT SHALL BE LASER LEVELED.

MECHANICAL LEGEND AND ABBREVIATIONS				HVAC MATERIALS LIST				MECHANICAL GENERAL NOTES									
ABBREVIATIONS		SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION												
A.D.	ACCESS DOOR		GATE VALVE		DIRECTION OF FLOW	<u>INSULATION</u>		A. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED STATE AND LOCAL CODES, AS WELL AS FEDERAL, STATE, AND MUNICIPAL REGULATIONS.									
AFF	ABOVE FINISH FLOOR		GLOBE VALVE		FLEXIBLE DUCTWORK	SHEETMETAL: 2" MINERAL-FIBER BLANKET THERMAL INSULATION; GLASS FIBERS BONDED WITH A THERMOSETTING RESIN, COMPLY WITH ASTM C 553, TYPE II, WITHOUT FACING AND WITH ALL-SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRIM, ALUMINUM FOIL, AND VINYL FILM, UL 25/50 FIRE SMOKE RATINGS COMPLIANT. INSTALL ON THE FOLLOWING SYSTEMS: DUCTWORK IN NON-CONDITIONED CONCEALED SPACES.											
AHU	AIR HANDLING UNIT		BALL VALVE		FIRE DAMPER	SHEETMETAL: GALVANIZED, SHEET STEEL. ALL SUPPLY AIR, RETURN AIR AND TRANSFER AIR DUCTWORK, LOCK-FORMING QUALITY, ASTM A 653/A 653M, 640 COATING DESIGNATION; MILL-PHOSPHATIZED FINISH FOR SURFACES OF DUCTS EXPOSED TO VIEW. PROVIDE FIBERGLASS DUCT LINER OF 1" THICKNESS, COMPLYING WITH NFPA 40A AND 40B, ASTM C554, TYPE II, UL 25/50 DEVELOPED FIRE-SMOKE INDEX; TREATED FOR AND CAPABLE OF RESISTING MOLD GROWTH PER ASTM G21. INSTALL IN THE FOLLOWING SYSTEMS; EXPOSED RECTANGULAR SUPPLY AIR & RECTANGULAR RETURN AIR (FIRST 10 LINEAR FEET OF EACH).											
AP	ACCESS PANEL		BUTTERFLY VALVE		SMOKE DAMPER												
AV	AUTOMATIC AIR VENT		BALANCING VALVE		COMBINATION FIRE & SMOKE DAMPER	SEALANT MATERIALS: JOINT AND SEAM SEALANT: ONE-PART, NONSAG, SOLVENT-RELEASE-CURING, POLYMERIZED BUTYL SEALANT, FORMULATED WITH A MINIMUM OF 75% SOLIDS.											
BDD	BACKDRAFT DAMPER		HOSE END DRAIN VALVE		DUCT MOUNTED SMOKE DETECTOR												
CFM	CUBIC FEET PER MINUTE		PRESSURE REDUCING VALVE		TEMPERATURE SENSOR	HANGERS & SUPPORTS: FLANGED JOINT MASTICS: ONE-PART, ACID-CURING, SILICONE, ELASTOMERIC JOINT SEALANTS, COMPLYING WITH ASTM C 920, TYPE 5, GRADE NS, CLASS 25, USE 0.											
CO	CLEAN OUT		TEMPERATURE CONTROL VALVE 2-WAY		THERMOSTAT												
CD	CONDENSATE DRAIN		TEMPERATURE CONTROL VALVE 3-WAY		HUMIDISTAT	HANGER MATERIALS: GALVANIZED OR STAINLESS STEEL, SHEET STEEL OR ROUND, THREADED STEEL ROD. HANGERS INSTALLED IN CORROSIVE ATMOSPHERES: ELECTROGALVANIZED, ALL-THREAD ROD OR GALVANIZED RODS WITH THREADS PAINTED AFTER INSTALLATION PER ARCHITECT'S DIRECTION.											
DB	DRY BULB		T&P RELIEF VALVE		RECTANGULAR ELBOW WITH TURNING VANES												
DN	DOWN		MANUAL AIR VENT		RECTANGULAR ELBOW WITHOUT TURNING VANES	STRAPS AND ROD SIZES: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE" FOR SHEET STEEL WIDTH AND THICKNESS AND FOR STEEL ROD DIAMETERS.											
DWG	DRAWING		AUTOMATIC AIR VENT		ROUND ELBOW												
(E)	EXISTING		SOLENOID VALVE		SUPPLY AIR DUCT UP	DUCT ATTACHMENTS: SHEET METAL SCREWS, BLIND RIVETS, OR SELF-TAPPING METAL SCREWS, COMPATIBLE WITH DUCT MATERIALS.											
EA	EXHAUST AIR		GAS COCK		RETURN AIR DUCT UP												
EAT	ENTERING AIR TEMPERATURE		IN-LINE PUMP		EXHAUST AIR DUCT UP	DAMPERS: MANUAL VOLUME DAMPERS - STANDARD STEEL, STANDARD LEAKAGE RATINGS, SUITABLE FOR HORIZONTAL OR VERTICAL INSTALLATION. HAT-SHAPED FRAME WITH GALVANIZED STEEL CHANNELS AND MITERED & WELDED CORNERS. GALVANIZED STEEL BLADE AXLES, OIL IMPREGNATED BRONZE BEARINGS, GALVANIZED TIE BARS AND BRACKETS.											
EC	ELECTRICAL CONTRACTOR		STRAINER W/ BLOWOFF VALVE		SUPPLY AIR DUCT DOWN												
EF	EXHAUST FAN		TEMPERATURE & PRESSURE TEST PLUG		RETURN AIR DUCT DOWN	BACKDRAFT DAMPERS - EXTRUDED ALUMINUM (0.063-INCH-THICK) WITH WELDED CORNERS, ALUMINUM SHEET BLADES WITH SEALED EDGES. NEOPRENE BLADE SEALS, MECHANICALLY LOCKED. PLATED STEEL BLADE AXLES, ALUMINUM TIE BARS AND BRACKETS. STEEL BALL OR SYNTHETIC PIVOT BUSHINGS. MAXIMUM VELOCITY OF 2000 FPM AND A MAXIMUM SYSTEM PRESSURE OF 2-INCH WG.											
ENT	ENTERING WATER TEMPERATURE		THERMOMETER		EXHAUST AIR DUCT DOWN												
FC	FLEXIBLE CONNECTION		PIPING RISER		TRANSITION (RISE OR DROP) IN DUCT ELEVATION IN DIRECTION OF AIR FLOW	FLEX DUCT: COMPLY WITH UL 181, CLASS I, WITH A PRESSURE RATING OF 6" WATER GAUGE POSITIVE AND 1/2" WATER GAUGE NEGATIVE. FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH AN OUTER JACKET (CONSISTING OF GLASS REINFORCED SILVER MYLAR WITH CONTINUOUS HANGING TAB, INTEGRAL FIBROUS GLASS TAPE AND NYLON HANGING CORD) ENCLOSING 1-1/2" THICK, GLASS FIBER INSULATION AROUND A CONTINUOUS LINER OF POLYETHYLENE FILM. STEEL WIRE HELIX ENCAPSULATED REINFORCEMENT IN INNER LINER.											
FCU	FAN COIL UNIT		PIPE DROP		RECTANGULAR TO RECTANGULAR TRANSITION												
FD	FIRE DAMPER		PRESSURE SWITCH		RECTANGULAR TO ROUND TRANSITION	FLEXIBLE CONNECTORS: GENERAL: FLAME-RETARDED OR NONCOMBUSTIBLE FABRICS, COATINGS, AND ADHESIVES COMPLYING WITH UL 181, CLASS I.											
FLEX	FLEXIBLE DUCTWORK		FLOW SWITCH		RECTANGULAR BRANCH FROM RECTANGULAR DUCT												
FLR	FLOOR		HEAT TRACE		MANUAL VOLUME DAMPER	ACCEPTABLE MANUFACTURERS											
FOB	FLAT ON BOTTOM TRANSITION		FLEXIBLE PIPE CONNECTION		SPIN-IN FITTING												
FOT	FLAT ON TOP TRANSITION		PIPE SLEEVE		SPIN-IN FITTING W/MVD	INSULATION AIR DEVICES THERMOSTATS EXHAUST FANS											
FS	FLOW SWITCH		UNION		MOTORIZED DAMPER												
FSD	COMBINATION FIRE & SMOKE DAMPER		PIPE CAP		BACKDRAFT DAMPER												
GC	GAS COCK		FLOW METER FITTING		DOOR UNDERCUT WITH HEIGHT	UNIT HEATERS											
GC	GENERAL CONTRACTOR		ITEM TO DEMOLISH		SUPPLY AIR DIFFUSER												
GPM	GALLONS PER MINUTE		DRAIN		RETURN AIR GRILLE/REGISTER	LENNOX (PIER 1 IMPORTS HAS AN EXCLUSIVE NATIONAL ACCOUNT RELATIONSHIP WITH LENNOX INDUSTRIES TO SUPPLY HAVAC PRODUCTS. NO SUBSTITUTIONS ALLOWED. HVAC CONTRACTORS ARE DIRECTED TO CALL THEIR LOCAL LENNOX SALES OFFICE AND ASK FOR PIER 1 / NATIONAL ACCOUNT PRICING. FOR FURTHER ASSISTANCE, CALL 1-800-361-6285).											
HP	HEAT PUMP		CONDENSATE DRAIN		EXHAUST AIR GRILLE/REGISTER												
HSTAT	HUMIDISTAT		HEAT PUMP LOOP WATER SUPPLY		ACCESS PANEL	ACCESSIBLE MANUFACTURERS											
LAT	LEAVING AIR TEMPERATURE		HEAT PUMP LOOP WATER RETURN		FLEXIBLE CONNECTION												
LWT	LEAVING WATER TEMPERATURE		HEATING WATER SUPPLY		LINEAR DIFFUSER	INSULATION AIR DEVICES THERMOSTATS EXHAUST FANS											
MAU	MAKE-UP AIR UNIT		HEATING WATER RETURN		SINGLE LINE DUCTWORK												
MA	MIXED AIR		CHILLED WATER SUPPLY		RECTANGULAR BRANCH FROM RECTANGULAR DUCT	UNIT HEATERS											
MAT	MIXED AIR TEMPERATURE		CHILLED WATER RETURN		RECTANGULAR TO RECTANGULAR TRANSITION												
MBH	THOUSAND BRITISH THERMAL UNITS				RECTANGULAR TO RECTANGULAR TRANSITION	LENNOX (PIER 1 IMPORTS HAS AN EXCLUSIVE NATIONAL ACCOUNT RELATIONSHIP WITH LENNOX INDUSTRIES TO SUPPLY HAVAC PRODUCTS. NO SUBSTITUTIONS ALLOWED. HVAC CONTRACTORS ARE DIRECTED TO CALL THEIR LOCAL LENNOX SALES OFFICE AND ASK FOR PIER 1 / NATIONAL ACCOUNT PRICING. FOR FURTHER ASSISTANCE, CALL 1-800-361-6285).											
MC	MECHANICAL CONTRACTOR				SPLIT ELBOW WITH TURNING VANES												
MD	MOTORIZED DAMPER				RADIUS ELBOW	ACCESSIBLE MANUFACTURERS											
MV	MANUAL AIR VENT				RECTANGULAR ELBOW WITH TURNING VANES												
MVD/VD	MANUAL VOLUME DAMPER				RIGID DUCTWORK TERMINATION	ACCESSIBLE MANUFACTURERS											
(N)	NEW				SUPPLY AIR												
N.C.	NORMALLY CLOSED				RETURN AIR	ACCESSIBLE MANUFACTURERS											
N.O.	NORMALLY OPEN																
NTS	NOT TO SCALE					ACCESSIBLE MANUFACTURERS											
OA, OSA	OUTSIDE AIR																
OAT	OUTSIDE AIR TEMPERATURE					ACCESSIBLE MANUFACTURERS											
OBD	OPPOSED BLADE DAMPER																
PC	PLUMBING CONTRACTOR					ACCESSIBLE MANUFACTURERS											
PG	PRESSURE GAUGE W/ GAUGE COCK																
P.O.C.	POINT OF CONNECTION OF NEW TO EXISTING					ACCESSIBLE MANUFACTURERS											
P.O.D.	POINT OF DISCONNECT																
PRV	PRESSURE REDUCING VALVE					ACCESSIBLE MANUFACTURERS											
PS	PRESSURE SWITCH																
RA	RETURN AIR					ACCESSIBLE MANUFACTURERS											
%RH	PERCENT RELATIVE HUMIDITY																
SA	SUPPLY AIR					ACCESSIBLE MANUFACTURERS											
SD	SMOKE DAMPER																
SP	STATIC PRESSURE					ACCESSIBLE MANUFACTURERS											
TA	TRANSFER AIR																
T&P	T&P RELIEF VALVE					ACCESSIBLE MANUFACTURERS											
TP	TEMPERATURE & PRESSURE TEST PLUG																
TSTAT	THERMOSTAT					ACCESSIBLE MANUFACTURERS											
TYP	TYPICAL																
U	UNION					ACCESSIBLE MANUFACTURERS											
UC	DOOR UNDERCUT WITH HEIGHT																
VB	VET BULB					ACCESSIBLE MANUFACTURERS											
PIPING DESIGNATIONS																	
CHWR	CHILLED WATER RETURN																
CHWS	CHILLED WATER SUPPLY																
CWR	CONDENSER WATER RETURN																
CWS	CONDENSER WATER SUPPLY																
D	DRAIN																
HPR	HEAT PUMP LOOP WATER RETURN																
HPS	HEAT PUMP LOOP WATER SUPPLY																
HWR	HEATING WATER RETURN																
HWS	HEATING WATER SUPPLY																





**2 CONCENTRIC DIFFUSER DETAIL**  
SCALE: NONE



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

## GENERAL NOTES

(THIS SHEET ONLY)

- REFER TO M001 FOR GENERAL NOTES THAT APPLY TO ALL DRAWINGS.
- ALL DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE.
- ALL TESTING AND BALANCING SHALL BE PERFORMED BY TENANT FINISH CONTRACTOR UNDER TENANT FINISH SCOPE OF WORK.
- THERMOSTATS SHALL BE MOUNTED AT 48" AFF TO TOP OF THERMOSTAT.
- ALL AIR DEVICES SHALL BE CENTERED WITHIN THE LAY-IN CEILING GRID(S), WHERE APPLICABLE.
- EXISTING ROOFTOP UNITS CONTAIN THERMOSTATS / SENSORS TO BE USED AS PART OF THIS PROJECT. THERMOSTATS / SENSORS ARE DYNELCO LIGHTSTAT TME-GVS-RSS. ALL WIRING TO BE T CONDUCTOR, #18 AWG CABLE FROM RTU TO THERMOSTAT. PROVIDE 2 CONDUCTOR, #18 AWG CABLE FROM THERMOSTAT TO REMOTE SENSOR. RUN THERMOSTAT WIRING IN EMT CONDUIT WITH AN EXTRA 15 FEET OF WIRE FOR REMOTE SENSORS.
- EXISTING ROOFTOP UNITS ARE CARRIER 48HCRD08 (RTU-1) AND 48HCRAC06 (RTU-2). AS PART OF THIS SCOPE OF WORK THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO POWER THE UNIT IN ORDER TO PERFORM START UP AND BALANCING OF THE UNITS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM VENDOR ON THE INSTALLATION AND POWERING OF THE SA AND RA SMOKE DETECTORS.
- INSULATE DUCTWORK IN NON-CONDITIONED SPACES WITH 2" THICK, 3/4 LB DENSITY, FOIL FACING 4 VAPOR SEAL WITH FASTAPE #608. PROVIDE INTERNALLY LINED INSULATED SHEET METAL FOR THE FIRST 10 LINEAR FEET OF SUPPLY AND RETURN AIR DUCT.
- SEAL ALL SHEET METAL DUCT JOINTS AND SEAMS WITH IRON GRIP #601 AND GLASS MESH F5-150.
- ALL EXPOSED DUCTWORK AND DIFFUSERS SHALL BE PAINTED (A' FINISH). REFER TO ARCHITECTURAL DRAWINGS FOR FINISH.
- ALL DUCTWORK PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH APPROVED MATERIALS TO CREATE A COMPLETE SEAL.
- ALL DUCT WORK WITHIN THE SALES AREA SHALL MAINTAIN 8'-6" MIN. FROM THE INSIDE FACE OF ALL PERIMETER WALLS.
- AFTER STARTUP OF EQUIPMENT, THE AIR DISTRIBUTION SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH HVAC PLAN, SMACNA STANDARDS AND PROCEDURES. AN INDEPENDENT CERTIFIED TESTING COMPANY, UNDER THE SUPERVISION OF A CERTIFIED HVAC BALANCING AND TESTING ENGINEER, SHALL TEST THE SYSTEM AND SEND SIGNED REPORTS DIRECTLY TO PIER 1 IMPORTS PROJECT MANAGER. PIER 1 MUST RECEIVE ACCEPTABLE REPORT BEFORE THE PUNCH LIST IS COMPLETE.

## KEY NOTES

- AREA NOT IN SCOPE OF WORK.
- (E) ROOFTOP UNIT, RTU-1, LOCATED ON ROOF ABOVE. BALANCE UNIT AIRFLOW AS FOLLOWS: 3000 CFM SUPPLY AIR AND 310 CFM (MIN.) OUTDOOR AIR.
- (E) ROOFTOP UNIT, RTU-2, LOCATED ON ROOF ABOVE. BALANCE UNIT AIRFLOW AS FOLLOWS: 2,000 CFM SUPPLY AIR AND 210 CFM (MIN.) OUTDOOR AIR.
- (E) ELECTRIC WALL HEATER TO REMAIN.
- (N) GAS FIRED UNIT HEATER, UH-1, SUSPENDED FROM STRUCTURE ABOVE WITH SPRING HANGER VIBRATION ISOLATORS. MOUNT UNIT HEATER 13'-0" AFF. TO BOTTOM OF HEATER AND 10'-0" FROM OVERHEAD DOOR.
- (N) 4"Ø TYPE 'B' UNIT HEATER FLUE ROUTED TO (E) 6"Ø METAL SLEEVED ROOF JACK. EXTEND THROUGH ROOF AND TERMINATE WITH CAP AT 3'-0" (MIN.) FROM ROOF SURFACE. RE: DETAIL 5/M101.
- (N) THERMOSTAT FOR UH-1. THERMOSTAT SHALL BE MANUFACTURED BY LIGHTSTAT. UPON A DROP IN SPACE TEMPERATURE TO 60 DEGREES F (ADJ.) SETPOINT THE THERMOSTAT SHALL ENERGIZE THE UNIT HEATER. UPON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT, THE UNIT HEATER SHALL DE-ENERGIZE.
- BRANCH DUCTWORK SHALL BE 13'-0" AFF TO BOTTOM OF DUCT.
- EXHAUST FAN MOUNTED 13'-0" AFF. SUSPEND FROM STRUCTURE WITH MANUFACTURER'S ISOLATORS (RIS).
- (N) THERMOSTAT FOR EF-4. THERMOSTAT SHALL BE MANUFACTURED BY LIGHTSTAT. UPON A RISE IN SPACE TEMPERATURE TO 80 DEGREES F (ADJ.) SETPOINT THE THERMOSTAT SHALL ENERGIZE THE FAN. UPON A DROP IN SPACE TEMPERATURE BELOW THE SETPOINT, THE EXHAUST FAN SHALL DE-ENERGIZE.
- 12"x12" TRANSFER DUCT THROUGH WALL ABOVE DOOR FRAME WITH TWO 12"x12" TYPE 'E' AIR DEVICES. INSTALL 50 BLADES DIRECT UP TO STRUCTURE.
- COORDINATE ROUTING OF DUCTWORK TO AVOID ACCESS LADDER TO ROOF.
- CONNECT (N) 10"Ø EA DUCTWORK TO (E) 10"Ø DUCT THROUGH ROOF. SEAL AIR TIGHT.
- 12"x8" TRANSFER DUCT THROUGH WALL WITH ONE 12"x8" TYPE 'E' AIR DEVICE ON STORAGE ROOM SIDE AT 13'-0" AFF. TO BOTTOM OF AIR DEVICE. INSTALL 50 BLADES DIRECT UP TO STRUCTURE.
- INSTALL 12"x6" DUCTWORK ON BACK SIDE OF AIR DEVICE WITH ELBOW TO CREATE LIGHT SHIELD ON RETURN GRILLE. PAINT INSIDE OF DUCTWORK AND ELBOW BLACK.
- INSTALL BRANCH DUCTWORK SO THAT VOLUME DAMPERS ARE ACCESSIBLE ABOVE LAY-IN TILE CEILING FOR BALANCING.
- EXHAUST FAN CENTERED OVER TOILET AS INDICATED. INSTALL WITH MANUFACTURER'S ISOLATORS (RIS).
- CONNECT (N) 6"Ø EA DUCTWORK TO (E) 6"Ø DUCT THROUGH ROOF. SEAL AIR TIGHT.
- EXHAUST FAN INSTALLED IN LAY-IN CEILING. INSTALL WITH MANUFACTURER'S ISOLATORS (RIS).
- CONNECT (N) 6"Ø EA DUCTWORK TO (E) 10"Ø DUCT THROUGH ROOF. PROVIDE TRANSITION AND ALL FITTINGS NECESSARY TO CONNECT. SEAL AIR TIGHT.
- INSTALL (E) THERMOSTAT FOR RTU-2 WHERE INDICATED.
- INSTALL (E) THERMOSTATS FOR THE ROOFTOP UNITS SERVING THE SALES AREA WHERE INDICATED.
- CONNECT (N) DUCTWORK INDICATED TO (E) DUCTWORK. EXTENDED THROUGH ROOF FROM (E) RTU ABOVE. PROVIDE FLEXIBLE CONNECTOR AT JOIST ELEVATION FOR BOTH SUPPLY AND RETURN DUCTS. PROVIDE ALL FITTINGS AND TRANSITIONS NECESSARY TO CONNECT (N) AND (E) DUCTWORK.
- EXTEND (E) DUCTWORK THROUGH ROOF FROM (E) RTU ABOVE DOWN TO (N) TYPE 'D' AIR DEVICE (CONCENTRIC DIFFUSER). PROVIDE TRANSITIONS AND FITTINGS NECESSARY TO CONNECT TO CONCENTRIC DIFFUSER (28"x18" CONNECTIONS FOR TITUS - BASIS OF DESIGN). PROVIDE FLEXIBLE CONNECTOR AT JOIST ELEVATION FOR BOTH SUPPLY AND RETURN DUCTS. RE: DETAIL 2/M301.
- SUSPEND CONCENTRIC DIFFUSER FROM STRUCTURE ABOVE WITH SPRING ISOLATORS WITH RUBBER STOPS.
- BRANCH DUCTWORK SHALL BE ROUTED AT 14'-6" (MIN.) AFF TO BOTTOM OF DUCT.
- COORDINATE ROUTING OF DUCTWORK WITH ACCESS PANEL TO FRONT SIGNAGE. RE: ARCHITECTURAL SHEET A9 FOR DETAILS.
- INSTALL (E) REMOTE SENSOR 1'-0" ABOVE ARCHITECTURAL CEILING GRID WHERE INDICATED.
- (E) REMOTE SENSOR TO BE RELOCATED ABOVE SALES AREA. REMOVE ALL CONTROL WIRING AND PATCH 4 PAINT WALL, IF NECESSARY.

DATE DEC. 19, 2011  
PROJ. NO. 1139

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MECHANICAL  
FLOOR PLAN

**M301**

REVISION

REFERENCE SPECIFICATIONS

REVISIONS

DATE NO.

**FERNISLER - ARCHITECTURE, LLC**

**ARCHITECTURE - MANAGEMENT - ENGINEERING**

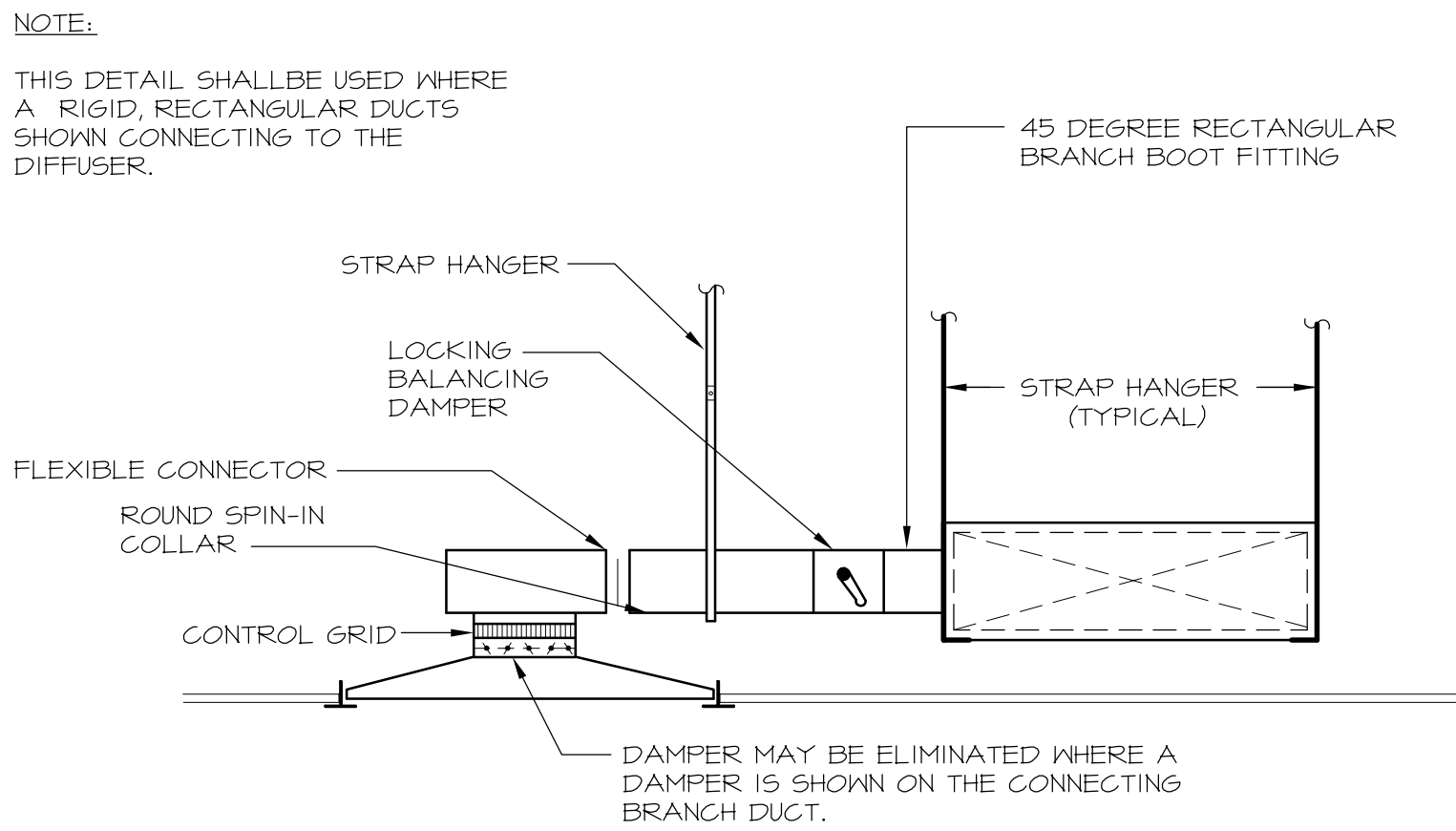
521 EAST BEAVER AVE.,  
STATE COLLEGE, PA 16801  
PHONE (814) 234-6806  
FAX (814) 234-0256  
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PRELIMINARY FIT OUT  
LOCATED IN TENANT SPACE #4  
FOR PER ONE IMPORTS

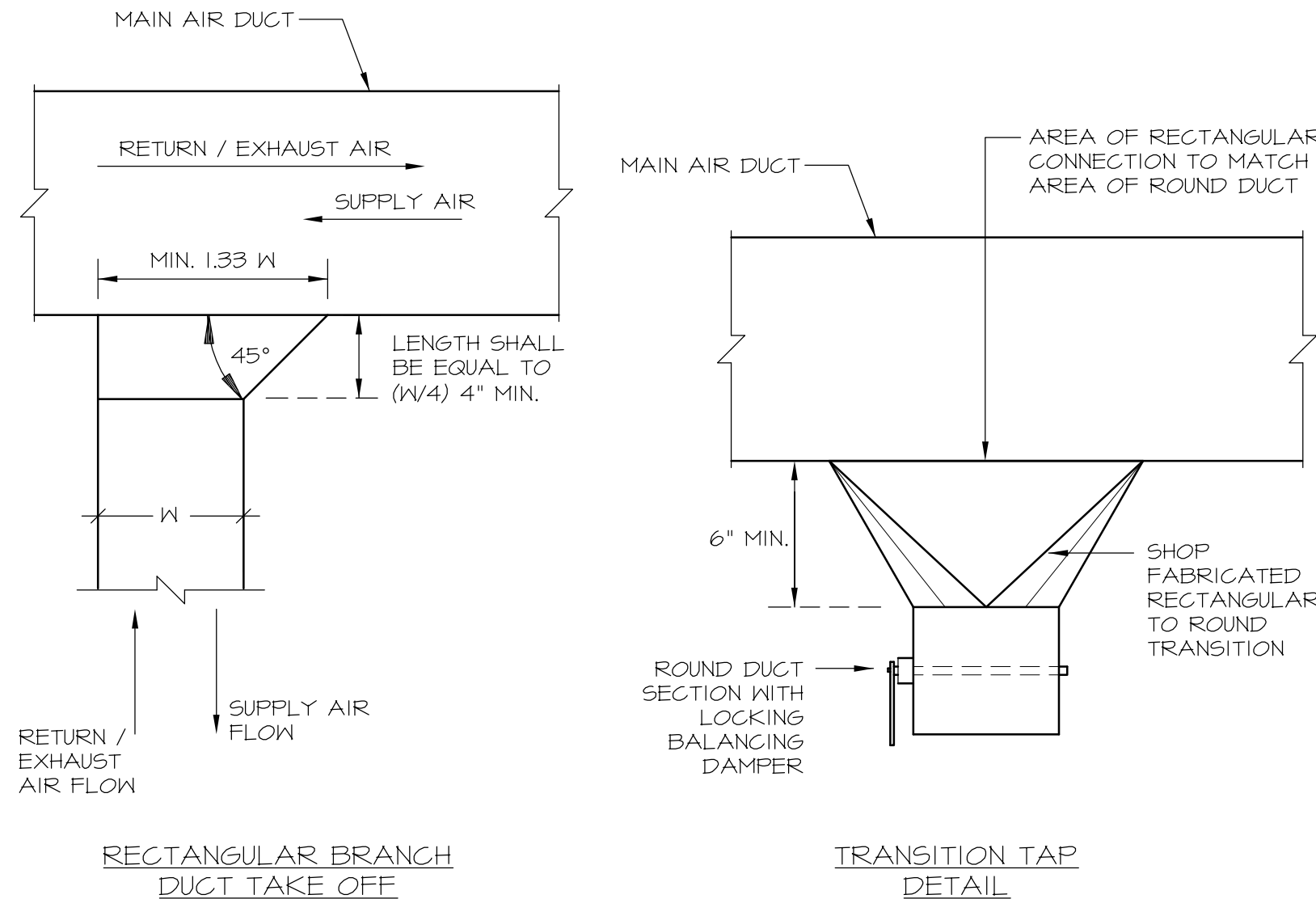
NOT FOR CONSTRUCTION

PROPOSED PIER ONE IMPORTS "FIT OUT"  
LOCATED IN TENANT SPACE #4  
TRADER JOE'S PLAZA

C/O KEYSTONE REAL ESTATE GROUP, LP  
444 EAST COLLEGE AVENUE  
STATE COLLEGE, PA 16801



4  
M701  
**DIFFUSER CONN. TO RECT. DUCT DETAIL**  
SCALE: NONE



1  
M701  
**BRANCH DUCT TAKE-OFF DETAIL**  
SCALE: NONE

### EXHAUST / SUPPLY FAN SCHEDULE

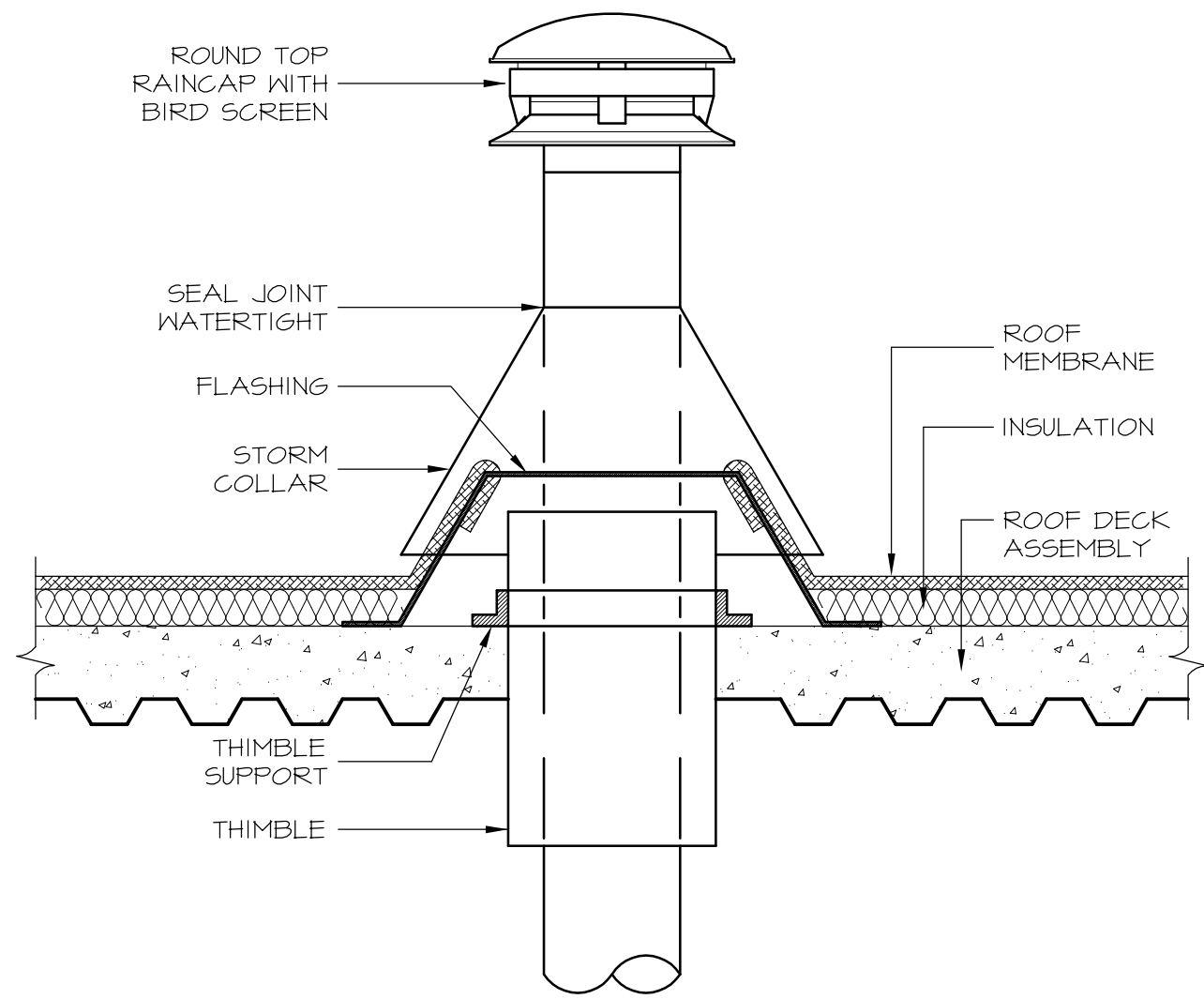
PLAN CODE	SERVICE	TYPE	AIR FLOW (CFM)	S.P. (IN W.G. @ S.L.)	MOTOR			FAN RPM	MANUFACTURER & MODEL NO.	OPER. WEIGHT (LBS)	NOTES
					HP (BHP/ WATTS)	VOLTAGE/ PHASE/HZ	RPM				
EF-1	WOMEN RESTROOM	CEILING	100	0.5	124 W	115/1/60	1050	813	GREENHECK SP-B150	20	1, 2, 3
EF-2	MEN RESTROOM	CEILING	100	0.5	124 W	115/1/60	1050	813	GREENHECK SP-B150	20	1, 2, 3
EF-3	STORAGE 108	CEILING	125	0.5	124 W	115/1/60	1050	908	GREENHECK SP-B150	20	1, 2, 5
EF-4	ELECTRIC 109	CEILING	350	0.5	135 W	115/1/60	1350	1350	GREENHECK SP-A390	35	1, 2, 4
1. PROVIDE WITH GRAVITY BACKDRAFT DAMPER. 2. PROVIDE WITH FACTORY DISCONNECT SWITCH, SOLID STATE SPEED CONTROL, TIME DELAY SWITCH AND ISOLATION KIT. 3. FAN SHALL OPERATE WITH LIGHT SWITCH. 4. FAN SHALL OPERATE VIA THERMOSTAT. 5. FAN SHALL OPERATE CONTINUOUSLY.											

### GAS UNIT HEATER SCHEDULE

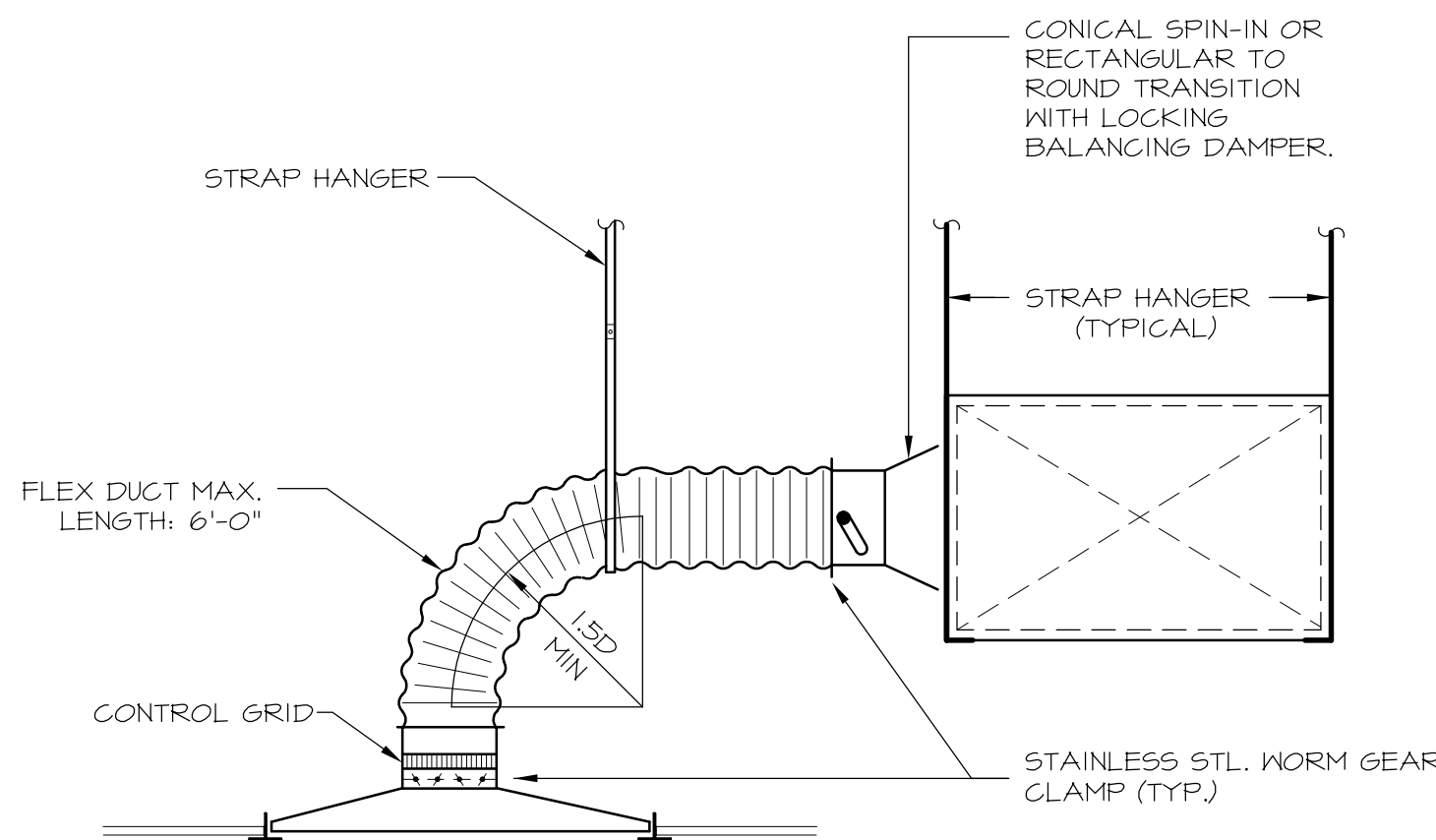
PLAN CODE	SERVICE	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	VOLTAGE Ø/HZ	AIR FLOW (CFM)	MOTOR		SIZE (INCHES)			OPER WEIGHT (LBS)	MANUFACTURER & MODEL NO.	NOTES
						NO.	HP	L	W	H			
UH-1	STOCKROOM 102	60	48	115/1/60	830	1	1/10	18.5	25	17	100	LENNOX LF24-60A	1, 2
1. PROVIDE WITH DISCONNECT SWITCH. 2. PROVIDE WITH THERMOSTAT.													

### AIR DEVICE SCHEDULE

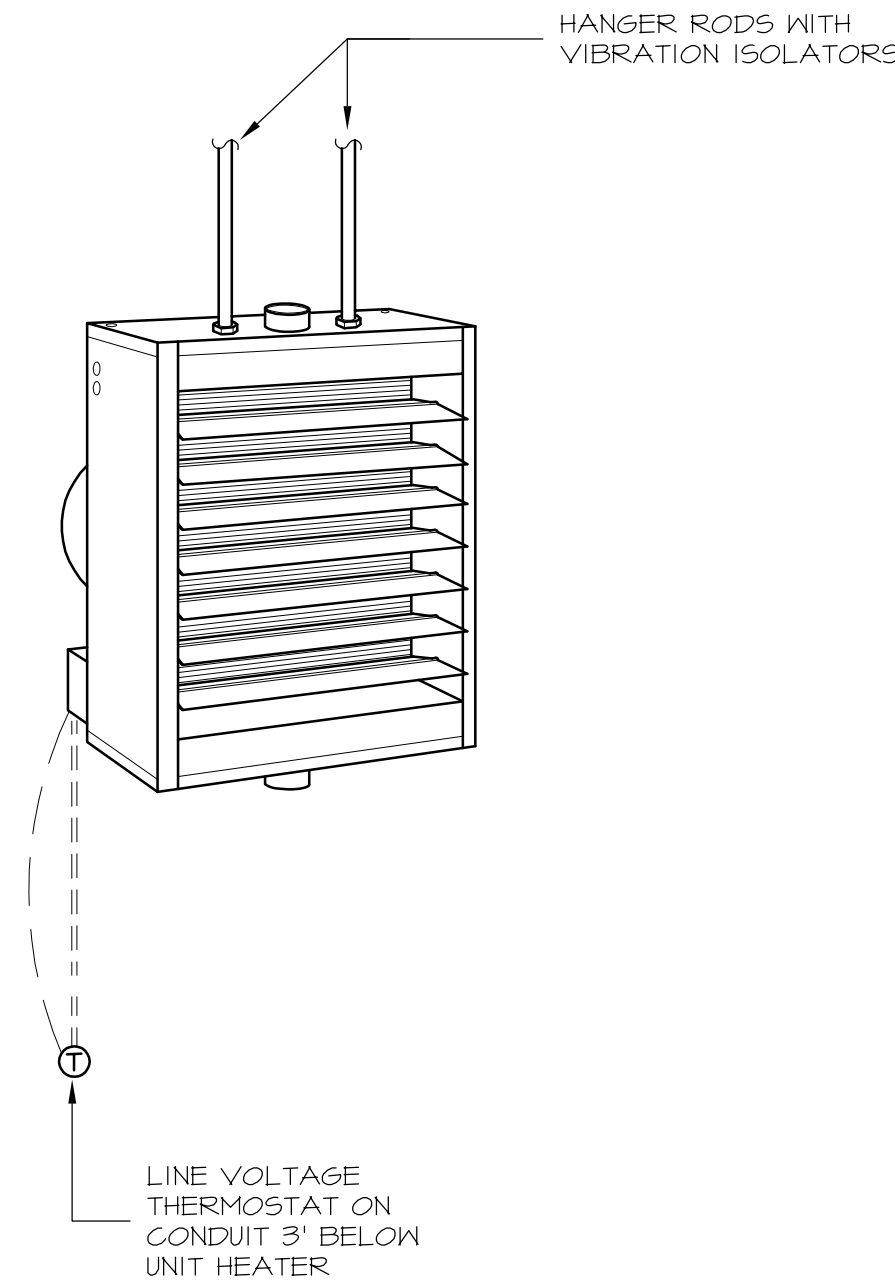
PLAN CODE	TYPE & SERVICE	NECK SIZE	FACE SIZE	FINISH	VOLUME DAMPER	MATERIAL/ CONSTRUCTION	MANUFACTURER & MODEL NO.	NOTES
A	SA DIFFUSER	SEE NOTES	SEE NOTES	#26 WHITE	YES	STEEL	TITUS DL	1, 5
B	SA DIFFUSER	AS NOTED	24" x 24"	#26 WHITE	NO	STEEL	TITUS TDC	1, 2
C	SA DIFFUSER	AS NOTED	12" x 12"	#26 WHITE	NO	STEEL	TITUS TDC	1, 3
D	CONCENTRIC DIFFUSER	SEE NOTES	SEE NOTES	#26 WHITE	NO	ALUMINUM	TITUS CSR-P	1, 4
E	RA / EA GRILLE	AS NOTED	NECK SIZE + 1-3/4"	#26 WHITE	NO	STEEL	TITUS 355RL	1
1. COORDINATE MOUNTING TYPE WITH CEILING OR WALL TYPE AS SPECIFIED ON ARCHITECTURAL DRAWINGS. 2. PROVIDE WITH 18"x18" BACKPAN AND SQUARE TO ROUND TRANSITION. 3. PROVIDE WITH 9"x9" BACKPAN AND SQUARE TO ROUND TRANSITION. 4. PROVIDE 48"x36" MODULE SIZE WITH PLENUM. 5. PROVIDE 18"x6" LISTED SIZE WITH OPPOSED BLADE DAMPER.								



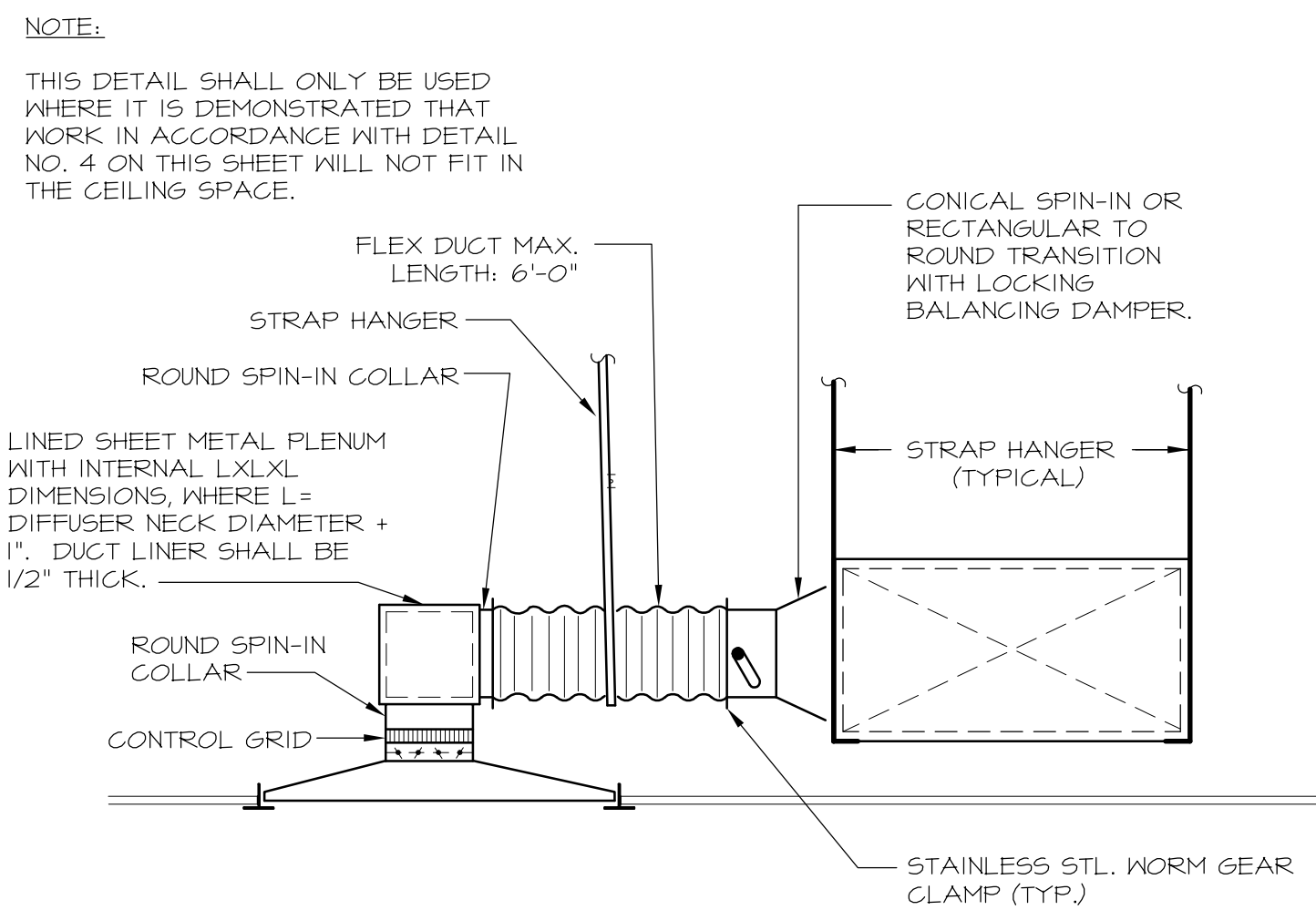
5  
M701  
**FLUE ROOF PENETRATION DETAIL**  
SCALE: NONE



2  
M701  
**FLEX DUCT INSTALLATION DETAIL**  
SCALE: NONE



6  
M701  
**HORIZONTAL UNIT HEATER DETAIL**  
SCALE: NONE



3  
M701  
**FLEX DUCT INSTALL. W/ LIMITED CLEARANCE**  
SCALE: NONE

REFERENCE SPECIFICATIONS

REVISIONS

DATE

NO.

BY

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DATE DEC. 19, 2011  
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MECHANICAL SCHEDULES AND DETAILS  
M701

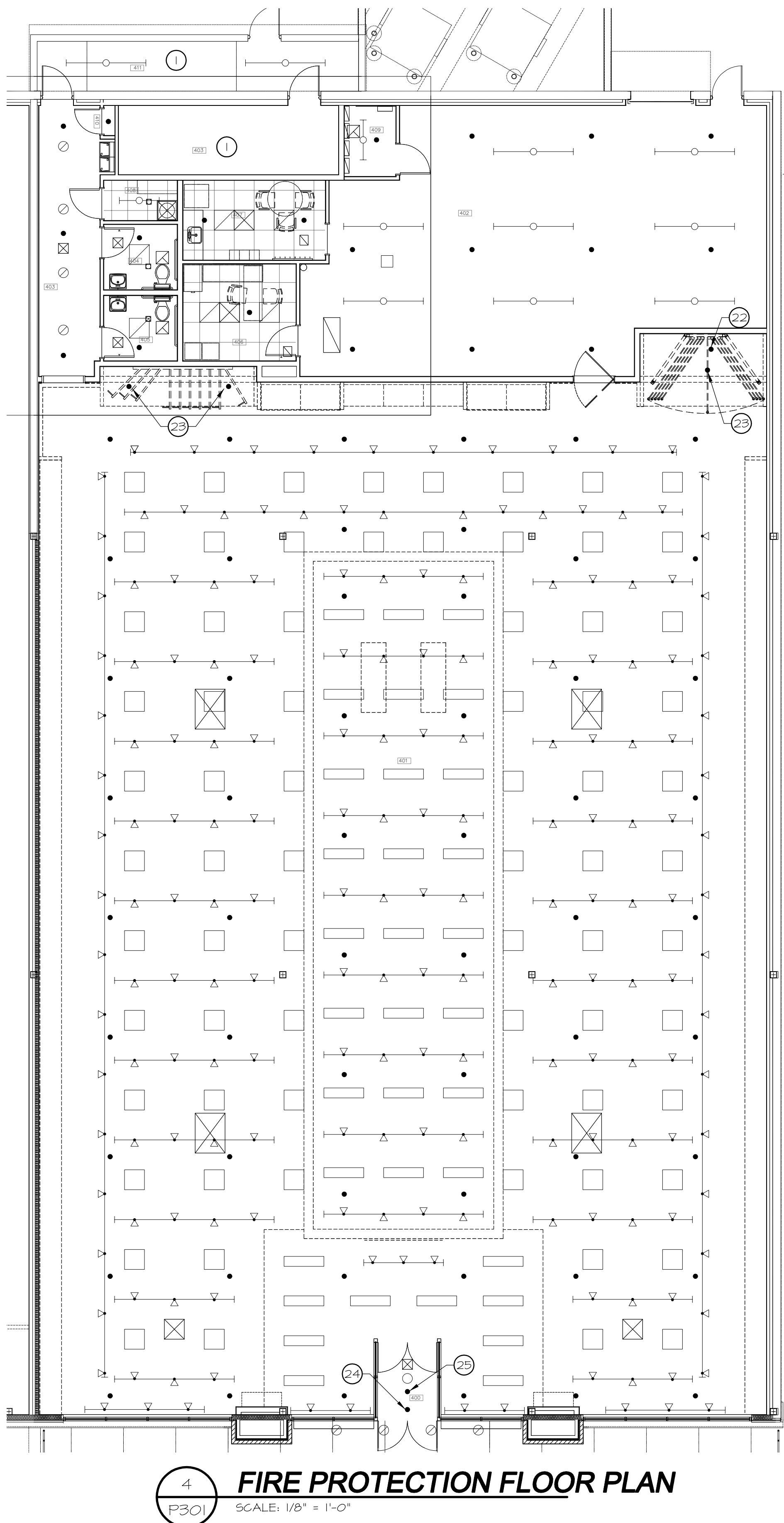
REVISION



MATERIALS LIST			PLUMBING LEGEND AND ABBREVIATIONS		PLUMBING GENERAL NOTES																																																																																																																																																																																																																			
<p><u>INSULATION:</u></p> <p>MINERAL-FIBER INSULATION WITH A MAXIMUM CONDUCTIVITY OF 0.27 BTU PER INCH-H-SQFT-DEGREE F. GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 547, TYPE I, WITH FACTORY-APPLIED, ALL PURPOSE, VAPOR-RETARDER JACKET. ULL 25/50 FIRE SMOKE RATING COMPLIANT. PLUMBING INSULATION OMITTED. OMIT INSULATION ON CHROME-PLATED EXPOSED PIPING (EXCEPT FOR HANDICAPPED FIXTURES), AND UNIONS. REQUIRED THICKNESS: 1/2" INSULATION THICKNESS FOR DOMESTIC COLD WATER AND 1" INSULATION THICKNESS FOR DOMESTIC HOT WATER PIPING.</p> <p>STANDARD PVC FITTING COVERS: FACTORY-FABRICATED, 20-MIL-THICK, HIGH IMPACT, ULTRAVIOLET-RESISTANT PVC. ULL 25/50 SMOKE/FIRE RATING COMPLIANT. ADHESIVE AS RECOMMENDED BY INSULATION MATERIAL MANUFACTURER.</p> <p><u>DOMESTIC WATER PIPING:</u></p> <p>RATED FOR 125 PSIG. COMPLIES WITH NFPA 24 AND NSF 61. ABOVE GROUND DOMESTIC WATER PIPING NPS 1-1/2 AND SMALLER: HARD COPPER TUBE (ASTM B 88), TYPE L; COPPER PRESSURE FITTINGS; AND SOLDERED JOINTS. PIPING SHALL BE TESTED FOR LEAKS. REPAIRS SHALL BE COMPLETED WITH NEW MATERIALS AND RE-TESTED. CLEAN AND DISINFECT PIPING PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR, IF METHODS ARE NOT PRESCRIBED, PROCEDURES DESCRIBED IN EITHER ANNA C651 OR ANNA C652.</p> <p><u>HANGERS:</u></p> <p>MSS TYPE 1, ADJUSTABLE STEEL CLEVIS HANGERS SPACED AT A MAXIMUM DISTANCE OF 60 INCHES WITH 3/8" ROD.</p> <p><u>VALVES:</u></p> <p>BALL VALVES, NPS 1-1/2" AND SMALLER, FULL PORT STYLE, 400 PSI WOG, BRONZE BODY, 3/16 ST/ST BALL AND STEM, BRONZE TRIM, 2 PIECE CONSTRUCTION, TFE SEATS AND SEALS.</p> <p>CHECK VALVES, NPS 2" AND SMALLER, WITH SCREWED BONNET, RENEWABLE BRONZE SEAT AND DISC. INSTALL FOR PROPER DIRECTION OF FLOW. INSPECT EACH VALVE FOR LEAKS AND REPLACE IF NECESSARY. PROVIDE VALVE TAGS AT EACH VALVE.</p> <p><u>SANITARY WASTE AND VENT PIPING:</u></p> <p>MINIMUM WORKING PRESSURE OF 10 FOOT HEAD OF WATER. INSTALL SOIL AND WASTE DRAINAGE AT MINIMUM SLOPE OF 2 PERCENT DOWNWARD IN DIRECTION OF FLOW AND VENT PIPING AT 1 PERCENT DOWN TOWARD VENT STACK. INSTALL CLEANOUTS AT GRADE AND EXTEND TO WHERE BUILDING SANITARY DRAINS CONNECT TO BUILDING SANITARY SEWERS. CLEAN PIPING &amp; TEST ACCORDING TO PROCEDURES OF AUTHORITIES HAVING JURISDICTION.</p> <p>HUBLESS CAST IRON SOIL PIPE AND FITTINGS: ASTM A 888 OR CISPI 301 WITH ASTM C 1277 SHIELDED COUPLINGS. INSTALL PER CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK".</p> <p>COPPER TUBE AND FITTINGS: ASTM B306 COPPER DWV TUBE WITH ASME B16.23 FITTINGS; ASTM B 88 HARD COPPER TUBE WITH ASME B16.18 FITTINGS. INSTALL PER CDA'S "COPPER TUBE HANDBOOK".</p> <p>PVC PIPE AND FITTINGS (BELOW SLAB APPLICATION ONLY): ASTM D 2665 SOLID WALL PVC PIPE AND ASTM D 3311 FITTINGS, SOLVENT CEMENT WITH A VOC CONTENT OF 510 G/L OR LESS AND ADHESIVE WITH A VOC CONTENT OF 550 G/L OR LESS PER 40 CFR 54 SUBPART D. INSTALL PER ASTM D 2321.</p> <p><u>HANGERS:</u></p> <p>MSS TYPE 1, ADJUSTABLE STEEL CLEVIS HANGERS WITH 3/8" MINIMUM RODS. CAST IRON PIPING: MAX 60 INCHES. COPPER TUBING: MAX 46 INCHES. PVC PIPING: MAX 48 INCHES.</p> <p><u>GAS PIPING:</u></p> <p>STEEL PIPE: ASTM A 53, TYPE E OR S; GRADE B; SCHEDULE 40; BLACK. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN WITH THREADED ENDS, ASME B120.1. UNIONS: ASME B16.34, CLASS 150, MALLEABLE IRON WITH BRASS TO IRON SEAT, GROUND JOINT AND THREADED ENDS PER ASME B120.1. STEEL THREADED FITTINGS: ASME B16.11, FORGED STEEL WITH THREADED ENDS PER ASME B120.1.</p> <p><u>VALVES:</u></p> <p>THREADED ENDS PER ASME B120.1. APPLIANCE CONNECTOR VALVES: ANSI Z21.15 AND IAS LISTED.</p> <p><u>HANGERS:</u></p> <p>MSS TYPE 1, ADJUSTABLE STEEL CLEVIS HANGERS SPACES AT A MAXIMUM DISTANCE OF 46 INCHES WITH 3/8" ROD.</p> <p><u>ACCEPTABLE MANUFACTURERS</u></p> <table><tr><td><u>INSULATION</u></td><td><u>BRASS VALVES</u></td><td><u>WATER HEATERS</u></td></tr><tr><td>CERTANTEED MANSON, KNAUF, OMENS-CORNING, SCHULLER.</td><td>MILWAUKEE VALVE CO., INC. BELL &amp; GOSSETT ARMSTRONG NIBCO, INC. WATTS</td><td>STATE INDUSTRIES, INC. SMITH, A.O. WATER PRODUCTS CO. LOCHINVAR CORP. BRADFORD WHITE CORP.</td></tr><tr><td><u>GAS APPLIANCE CONNECTOR VALVES</u></td><td><u>GAS VALVES</u></td><td><u>COMPRESSION TANKS</u></td></tr><tr><td>AMERICAN VALVE CONBRACO INDUSTRIES, INC. FREY MUELLER CO. KEY GAS COMPONENTS, INC. WATTS INDUSTRIES, INC.</td><td>CRANE VALVES GRINNELL CORP. HONEYWELL, INC. MUELLER CO. NIBCO, INC. WATTS INDUSTRIES, INC.</td><td>AMTROL INC. ARMSTRONG PUMPS, INC. A.O. SMITH STATE INDUSTRIES, INC.</td></tr></table> <p>PLUMBING FIXTURES SHALL BE AS SPECIFIED ON THE PLUMBING FIXTURE SCHEDULE IN THE DRAWINGS. PROPOSED SUBSTITUTIONS WILL BE ACCEPTED FOR REVIEW AND APPROVAL. SUCH APPROVAL TO BE IN WRITING BY PIER 1 BEFORE INSTALLATION.</p>			<u>INSULATION</u>	<u>BRASS VALVES</u>	<u>WATER HEATERS</u>	CERTANTEED MANSON, KNAUF, OMENS-CORNING, SCHULLER.	MILWAUKEE VALVE CO., INC. BELL & GOSSETT ARMSTRONG NIBCO, INC. WATTS	STATE INDUSTRIES, INC. SMITH, A.O. WATER PRODUCTS CO. LOCHINVAR CORP. BRADFORD WHITE CORP.	<u>GAS APPLIANCE CONNECTOR VALVES</u>	<u>GAS VALVES</u>	<u>COMPRESSION TANKS</u>	AMERICAN VALVE CONBRACO INDUSTRIES, INC. FREY MUELLER CO. KEY GAS COMPONENTS, INC. WATTS INDUSTRIES, INC.	CRANE VALVES GRINNELL CORP. HONEYWELL, INC. MUELLER CO. NIBCO, INC. WATTS INDUSTRIES, INC.	AMTROL INC. ARMSTRONG PUMPS, INC. A.O. SMITH STATE INDUSTRIES, INC.	<p><u>PLUMBING PIPE DESIGNATIONS</u></p> <table><tr><td>———— F ————</td><td>FIRE PROTECTION PIPING</td></tr><tr><td>———— ————</td><td>POTABLE COLD WATER PIPING</td></tr><tr><td>———— 110° ————</td><td>POTABLE HOT WATER 110°F PIPING</td></tr><tr><td>———— 120° ————</td><td>POTABLE HOT WATER 120°F PIPING</td></tr><tr><td>———— 140° ————</td><td>POTABLE HOT WATER 140°F PIPING</td></tr><tr><td>———— 110°C ————</td><td>POTABLE HOT WATER RECIRC. 110°F PIPING</td></tr><tr><td>———— 120°C ————</td><td>POTABLE HOT WATER RECIRC. 120°F PIPING</td></tr><tr><td>———— 140°C ————</td><td>POTABLE HOT WATER RECIRC. 140°F PIPING</td></tr><tr><td>———— G ————</td><td>NATURAL GAS PIPING</td></tr><tr><td>———— ————</td><td>SANITARY SEWER PIPING (ABOVE FLOOR/GRADE)</td></tr><tr><td>———— ————</td><td>SANITARY SEWER PIPING (BELOW FLOOR/GRADE)</td></tr><tr><td>———— ST ————</td><td>STORM SEWER PIPING (ABOVE FLOOR/GRADE)</td></tr><tr><td>———— ST ————</td><td>STORM SEWER PIPING (BELOW FLOOR/GRADE)</td></tr><tr><td>———— RD ————</td><td>ROOF DRAIN PIPING (ABOVE FLOOR/GRADE)</td></tr><tr><td>———— RD ————</td><td>ROOF DRAIN PIPING (BELOW FLOOR/GRADE)</td></tr><tr><td>———— GW ————</td><td>GREASE WASTE PIPING</td></tr><tr><td>———— ————</td><td>SANITARY VENT PIPING</td></tr><tr><td>———— CD ————</td><td>CONDENSATE DRAIN PIPING</td></tr><tr><td>———— SOG ————</td><td>SAND/OIL/GAS WASTE PIPING</td></tr><tr><td>———— FOS ————</td><td>SAND/OIL/GAS WASTE PIPING</td></tr><tr><td>———— FOR ————</td><td>SAND/OIL/GAS WASTE PIPING</td></tr><tr><td>———— FOV ————</td><td>SAND/OIL/GAS WASTE PIPING</td></tr><tr><td>———— UG ————</td><td>UN-INTERRUPTABLE GAS PIPING</td></tr><tr><td>———— IG ————</td><td>INTERRUPTABLE GAS PIPING</td></tr><tr><td>———— CA ————</td><td>COMPRESSED AIR PIPING</td></tr><tr><td>———— EWC ————</td><td>ELECTRIC WATER COOLER CHILLED WATER PIPING</td></tr></table> <p><u>ABBREVIATIONS</u></p> <table><tr><td>AD</td><td>AREA DRAIN</td></tr><tr><td>AFB</td><td>ABOVE FINISHED FLOOR</td></tr><tr><td>AFG</td><td>ABOVE FINISHED GRADE</td></tr><tr><td>BFF</td><td>BELOW FINISHED FLOOR</td></tr><tr><td>BFG</td><td>BELOW FINISHED GRADE</td></tr><tr><td>BFP</td><td>BACKFLOW PREVENTER</td></tr><tr><td>CA</td><td>COMPRESSED AIR</td></tr><tr><td>CD</td><td>CONDENSATE DRAIN</td></tr><tr><td>CO</td><td>CLEANOUT</td></tr><tr><td>CN</td><td>COLD WATER</td></tr><tr><td>DWG</td><td>DRAWING</td></tr><tr><td>(E)</td><td>EXISTING</td></tr><tr><td>EC</td><td>ELECTRICAL CONTRACTOR</td></tr><tr><td>ENT</td><td>ENTERING WATER TEMPERATURE</td></tr><tr><td>EWC</td><td>ELECTRIC WATER COOLER</td></tr><tr><td>F</td><td>FIRE</td></tr><tr><td>FD</td><td>FLOOR DRAIN</td></tr><tr><td>FLR</td><td>FLOOR</td></tr><tr><td>FM</td><td>FORGED MAIN</td></tr><tr><td>FO</td><td>FUEL OIL</td></tr><tr><td>FOR</td><td>FUEL OIL RETURN</td></tr><tr><td>FOS</td><td>FUEL OIL SUPPLY</td></tr><tr><td>FOV</td><td>FUEL OIL VENT</td></tr><tr><td>G</td><td>GAS</td></tr><tr><td>GC</td><td>GENERAL CONTRACTOR</td></tr><tr><td>GCO</td><td>GRADE CLEANOUT</td></tr><tr><td>GPH</td><td>GALLONS PER HOUR</td></tr><tr><td>GPM</td><td>GALLONS PER MINUTE</td></tr><tr><td>GW</td><td>GREASE WASTE</td></tr><tr><td>HW</td><td>HOT WATER</td></tr><tr><td>HWC</td><td>HOT WATER RECIRC.</td></tr><tr><td>IG</td><td>INTERRUPTABLE GAS</td></tr><tr><td>IN</td><td>INDIRECT WASTE</td></tr><tr><td>LAV</td><td>LAVATORY</td></tr><tr><td>LMT</td><td>LEAVING WATER TEMPERATURE</td></tr><tr><td>MC</td><td>MECHANICAL CONTRACTOR</td></tr><tr><td>(N)</td><td>NEW</td></tr><tr><td>NIC</td><td>NOT IN CONTRACT</td></tr><tr><td>NTS</td><td>NOT TO SCALE</td></tr><tr><td>N.O.</td><td>NORMALLY OPEN</td></tr><tr><td>N.C.</td><td>NORMALLY CLOSED</td></tr><tr><td>PC</td><td>PLUMBING CONTRACTOR</td></tr><tr><td>PRV</td><td>PRESSURE REDUCING VALVE</td></tr><tr><td>RD</td><td>ROOF DRAIN</td></tr><tr><td>RWC</td><td>RAIN WATER CONDUCTOR</td></tr><tr><td>SOG</td><td>SAND/OIL/GAS WASTE</td></tr><tr><td>SS</td><td>SERVICE SINK</td></tr><tr><td>ST</td><td>STORM SEWER</td></tr><tr><td>TW</td><td>TEMPERED WATER (TEPID WATER)</td></tr><tr><td>TYP.</td><td>TYPICAL</td></tr><tr><td>U</td><td>URINAL</td></tr><tr><td>UG</td><td>UN-INTERRUPTABLE GAS</td></tr><tr><td>V</td><td>VENT</td></tr><tr><td>VTR</td><td>VENT THROUGH ROOF</td></tr><tr><td>W</td><td>WASTE (SANITARY SEWER)</td></tr><tr><td>WC</td><td>WATER CLOSET</td></tr><tr><td>WCO</td><td>WALL CLEANOUT</td></tr></table>	———— F ————	FIRE PROTECTION PIPING	———— ————	POTABLE COLD WATER PIPING	———— 110° ————	POTABLE HOT WATER 110°F PIPING	———— 120° ————	POTABLE HOT WATER 120°F PIPING	———— 140° ————	POTABLE HOT WATER 140°F PIPING	———— 110°C ————	POTABLE HOT WATER RECIRC. 110°F PIPING	———— 120°C ————	POTABLE HOT WATER RECIRC. 120°F PIPING	———— 140°C ————	POTABLE HOT WATER RECIRC. 140°F PIPING	———— G ————	NATURAL GAS PIPING	———— ————	SANITARY SEWER PIPING (ABOVE FLOOR/GRADE)	———— ————	SANITARY SEWER PIPING (BELOW FLOOR/GRADE)	———— ST ————	STORM SEWER PIPING (ABOVE FLOOR/GRADE)	———— ST ————	STORM SEWER PIPING (BELOW FLOOR/GRADE)	———— RD ————	ROOF DRAIN PIPING (ABOVE FLOOR/GRADE)	———— RD ————	ROOF DRAIN PIPING (BELOW FLOOR/GRADE)	———— GW ————	GREASE WASTE PIPING	———— ————	SANITARY VENT PIPING	———— CD ————	CONDENSATE DRAIN PIPING	———— SOG ————	SAND/OIL/GAS WASTE PIPING	———— FOS ————	SAND/OIL/GAS WASTE PIPING	———— FOR ————	SAND/OIL/GAS WASTE PIPING	———— FOV ————	SAND/OIL/GAS WASTE PIPING	———— UG ————	UN-INTERRUPTABLE GAS PIPING	———— IG ————	INTERRUPTABLE GAS PIPING	———— CA ————	COMPRESSED AIR PIPING	———— EWC ————	ELECTRIC WATER COOLER CHILLED WATER PIPING	AD	AREA DRAIN	AFB	ABOVE FINISHED FLOOR	AFG	ABOVE FINISHED GRADE	BFF	BELOW FINISHED FLOOR	BFG	BELOW FINISHED GRADE	BFP	BACKFLOW PREVENTER	CA	COMPRESSED AIR	CD	CONDENSATE DRAIN	CO	CLEANOUT	CN	COLD WATER	DWG	DRAWING	(E)	EXISTING	EC	ELECTRICAL CONTRACTOR	ENT	ENTERING WATER TEMPERATURE	EWC	ELECTRIC WATER COOLER	F	FIRE	FD	FLOOR DRAIN	FLR	FLOOR	FM	FORGED MAIN	FO	FUEL OIL	FOR	FUEL OIL RETURN	FOS	FUEL OIL SUPPLY	FOV	FUEL OIL VENT	G	GAS	GC	GENERAL CONTRACTOR	GCO	GRADE CLEANOUT	GPH	GALLONS PER HOUR	GPM	GALLONS PER MINUTE	GW	GREASE WASTE	HW	HOT WATER	HWC	HOT WATER RECIRC.	IG	INTERRUPTABLE GAS	IN	INDIRECT WASTE	LAV	LAVATORY	LMT	LEAVING WATER TEMPERATURE	MC	MECHANICAL CONTRACTOR	(N)	NEW	NIC	NOT IN CONTRACT	NTS	NOT TO SCALE	N.O.	NORMALLY OPEN	N.C.	NORMALLY CLOSED	PC	PLUMBING CONTRACTOR	PRV	PRESSURE REDUCING VALVE	RD	ROOF DRAIN	RWC	RAIN WATER CONDUCTOR	SOG	SAND/OIL/GAS WASTE	SS	SERVICE SINK	ST	STORM SEWER	TW	TEMPERED WATER (TEPID WATER)	TYP.	TYPICAL	U	URINAL	UG	UN-INTERRUPTABLE GAS	V	VENT	VTR	VENT THROUGH ROOF	W	WASTE (SANITARY SEWER)	WC	WATER CLOSET	WCO	WALL CLEANOUT	<p>(THESE NOTES APPLY TO ALL PLUMBING DRAWINGS)</p> <ol style="list-style-type: none"><li>ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED STATE AND LOCAL CODES, AS WELL AS FEDERAL, STATE, AND MUNICIPAL REGULATIONS.</li><li>THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK UNDER THIS CONTRACT WITH ALL OTHER BUILDING TRADES. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES OR QUESTIONS PERTAINING TO EXTENT OF WORK PRIOR TO BIDDING.</li><li>THE WORK REQUIRED CONSISTS OF PERFORMING ALL LABOR AND FURNISHING ALL MATERIALS, FIXTURES AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION OF ALL PLUMBING SYSTEMS AS INDICATED IN THE CONTRACT DOCUMENTS. IT SHALL FURTHER INCLUDE FURNISHING AND INSTALLING ALL ASSOCIATED ITEMS REQUIRED FOR THE PROPER OPERATION OF ALL PLUMBING SYSTEMS.</li><li>THE INFORMATION INDICATED WITHIN THESE DRAWINGS IS DIAGRAMMATIC IN NATURE, CONTAINING INFORMATION TO A DEGREE OF DETAIL CONSISTENT WITH THEIR SCALE, ADEQUATE TO CONVEY THE DESIGN INTENT AND THEREFORE DOES NOT INDICATE EVERY REQUIRED OFFSET, FITTING OR SLOPE. PROVIDE EQUIPMENT, MATERIALS AND METHODS NOT SHOWN OR SPECIFIED BUT REQUIRED TO PROVIDE A COMPLETE AND COORDINATED INSTALLATION.</li><li>THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL FIELD DIMENSIONS, LOCATIONS AND CONDITIONS PRIOR TO THE INSTALLATION OF ANY MATERIALS AND COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES THAT WILL AFFECT THE WORK FOR RESOLUTION.</li><li>EQUIPMENT, DEVICES AND MATERIALS SHOWN ON DRAWINGS ARE BASED ON MANUFACTURER'S PUBLISHED DATA, AND ARE, IN THE DESIGNER'S PROFESSIONAL OPINION, REPRESENTATIVE OF TYPICAL SIZES. ALL EQUIPMENT, DEVICES AND MATERIALS PROVIDED SHALL FIT WITHIN THE SPACE PROVIDED.</li><li>ALL EQUIPMENT, FIXTURES, AND SERVICEABLE DEVICES SHALL BE INSTALLED WITH ACCESS AND CLEARANCE FOR MAINTENANCE, REPLACEMENT AND OPERATION. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES TO PROVIDE THIS ACCESS AND CLEARANCE. INSTALL ALL EQUIPMENT, DEVICES AND MATERIALS PER MANUFACTURER'S INSTRUCTIONS.</li><li>IF EQUIPMENT, FIXTURES, AND MATERIAL, OTHER THAN THAT SCHEDULED OR SPECIFIED, ARE APPROVED AND PROVIDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND PROVIDE REVISED UTILITIES AND SERVICE CONNECTIONS AND VERIFY THE SPACE ALLOTTED FOR ADEQUACY AND CLEARANCE REQUIREMENTS.</li><li>PROVIDE STARTERS FOR EQUIPMENT UNLESS SPECIFICALLY IDENTIFIED AS BEING PROVIDED BY THE ELECTRICAL CONTRACTOR. PROVIDE ALL INTERNAL OVER CURRENT PROTECTION DEVICES AND INTERNAL TRANSFORMERS FOR PACKAGED EQUIPMENT.</li><li>COORDINATE ALL DEVICE, PIPING, FIXTURE AND EQUIPMENT LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO STARTING ANY WORK. COORDINATE WITH GENERAL CONTRACTOR, AND ALL OTHER TRADES, ALL REQUIREMENTS FOR INSTALLATION, INCLUDING SERVICE UTILITY CONNECTIONS, POINT LOADS, CHASES, SLEEVES, SUPPORTING DEVICES, OPENINGS AND CUT-OUTS, AND PENETRATIONS OF WALLS, CEILINGS OR SHAFTS. WHERE PIPES PASS THROUGH FIRE-RATED CONSTRUCTION, SEAL WITH CODE REQUIRED MATERIALS.</li><li>ACCESS DOORS AND/OR PANELS SHALL BE PROVIDED AT ALL MAINTENANCE AND SERVICE LOCATIONS FOR CONCEALED EQUIPMENT, VALVES AND DEVICES. UNLESS A SIZE IS SPECIFICALLY NOTED, PANELS SHALL BE SIZED TO SERVICE EQUIPMENT/DEVICE BUT SHALL NOT BE LESS THAN 12" x 12". DOORS AND PANELS SHALL HAVE THE SAME FIRE RATINGS AS THE WALL OR CEILING IN WHICH THEY ARE INSTALLED. ACCESS DOORS AND/OR PANELS ARE NOT REQUIRED WHERE ADJUSTMENT, MAINTENANCE AND REPLACEMENT ARE POSSIBLE THROUGH LAT-IN SUSPENDED CEILING.</li><li>INSULATION AND VAPOR BARRIER SHALL BE PROVIDED ON ALL PIPING AND EQUIPMENT SUBJECT TO HEAT LOSS, CONDENSATION, OR CONSTITUTING A POTENTIAL BURN HAZARD.</li><li>PIPE AND EQUIPMENT INSULATION SHALL NOT BE CRUSHED OR COMPRESSED THROUGH INTERFERENCE WITH SYSTEMS INSTALLED BY OTHER TRADES OR BUILDING CONSTRUCTION.</li><li>ALL PIPING SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID FREEZING. NO PIPING SHALL BE INSTALLED WITHIN EXTERIOR WALLS.</li><li>ALL SLOPED PLUMBING SYSTEMS SHALL HAVE RIGHT OF WAY OVER ALL OTHER BUILDING SYSTEM COMPONENTS. INSTALL PLUMBING AND PIPING HIGH POINTS AS TIGHT AS POSSIBLE TO THE BUILDING STRUCTURE TO ALLOW PROPER PITCH AND MAXIMIZE CEILING HEIGHT. ELEVATIONS LISTED FOR ALL PLUMBING SYSTEM PIPING IN THE CONTRACT DOCUMENTS ARE TO BE VERIFIED PRIOR TO CONSTRUCTION.</li><li>ALL FINISHED CONSTRUCTION AND/OR EXISTING BUILDING AND SITE FEATURES NOT BEING ALTERED BY THIS PROJECT ARE TO BE PROTECTED FROM DAMAGE. CONTRACTOR SHALL REPAIR ALL DAMAGE OCCURRING TO FINISHED AND/OR EXISTING CONSTRUCTION CAUSED BY THE CONTRACTOR'S OPERATIONS AT THEIR EXPENSE TO THE COMPLETE SATISFACTION OF THE OWNER.</li><li>PROVIDE AIR VENTS AT PIPING HIGH POINTS AND DRAINS AT LOW POINTS IN MAINS.</li><li>EXPOSED PIPING IN FINISHED SPACES SHALL BE CHROME PLATED WITH A CHROME PLATED ESCUTCHEON AT EACH FINISHED ENTRY/EXIT.</li><li>ALL HOT WATER RECIRCULATION SYSTEMS SHALL BE PROPERLY BALANCED PER THE PLUMBING DRAWINGS AND ALL PLUMBING SYSTEMS SHALL BE PRESSURE TESTED PER THE SPECIFICATIONS. DOMESTIC WATER PIPING SHALL BE DISINFECTED.</li><li>MAINTAIN ONE SET OF RED-LINED AS-BUILT DRAWINGS ON JOB SITE. SUBMIT TO ARCHITECT AT THE COMPLETION OF ALL WORK.</li><li>PROVIDE APPROVED SLEEVES AT ALL MASONRY WALL PENETRATIONS.</li><li>INSTALL SHUT-OFF VALVES AT EACH FIXTURE. LOCATE AND ORIENT VALVE OPERATORS FOR EASE OF ACCESS AND FULL LIMITS OF OPERATION.</li><li>INSULATION SHALL BE FIRMLY SECURED TO SUBSTRATE WITH ENDS SEALED TO MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER. INSULATION SHALL NOT BE CRUSHED OR COMPRESSED AT HANGERS OR THROUGH INTERFERENCE WITH EQUIPMENT INSTALLED BY OTHER TRADES.</li></ol>	<table><tr><td colspan="2">REFERENCE SYMBOLS</td></tr><tr><td></td><td>EQUIPMENT DESIGNATION</td></tr><tr><td></td><td>REVISION DESIGNATION</td></tr><tr><td></td><td>KEY NOTE DESIGNATION</td></tr><tr><td></td><td>ENLARGED PLAN DESIGNATION</td></tr><tr><td></td><td>NORTH ARROW</td></tr><tr><td></td><td>POINT OF CONNECTION OF NEW TO EXISTING</td></tr><tr><td></td><td>WATER RISER DIAGRAM REFERENCE</td></tr><tr><td></td><td>CONDENSATE RISER DIAGRAM REFERENCE</td></tr><tr><td></td><td>WASTE &amp; VENT STACK DIAGRAM REFERENCE</td></tr></table>	REFERENCE SYMBOLS			EQUIPMENT DESIGNATION		REVISION DESIGNATION		KEY NOTE DESIGNATION		ENLARGED PLAN DESIGNATION		NORTH ARROW		POINT OF CONNECTION OF NEW TO EXISTING		WATER RISER DIAGRAM REFERENCE		CONDENSATE RISER DIAGRAM REFERENCE		WASTE & VENT STACK DIAGRAM REFERENCE	<table><tr><td colspan="2">REFERENCE SPECIFICATIONS</td></tr><tr><td>DATE</td><td>DEC. 19, 2011</td></tr><tr><td>PROJ. 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3  
P301  
**ENLARGED PARTIAL  
PLUMBING FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

2  
P301  
**ENLARGED PARTIAL PLUMBING FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



4  
P301  
**FIRE PROTECTION FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

## GENERAL NOTES

(THIS SHEET ONLY)

- REFER TO P001 FOR GENERAL NOTES THAT APPLY TO ALL DRAWINGS.
- PROVIDE SOLID, FIRE TREATED 2x BLOCKING IN WALL FOR ALL WALL MOUNTED ACCESSORIES.
- ALL SPRINKLER HEADS SHALL BE WHITE IN COLOR. SPRINKLER PIPING SHALL BE PAINTED WHITE TO MATCH HEADS.
- ALL EXPOSED PIPING, OTHER THAN SPRINKLER PIPING, SHALL BE INSULATED AND PAINTED WHITE.

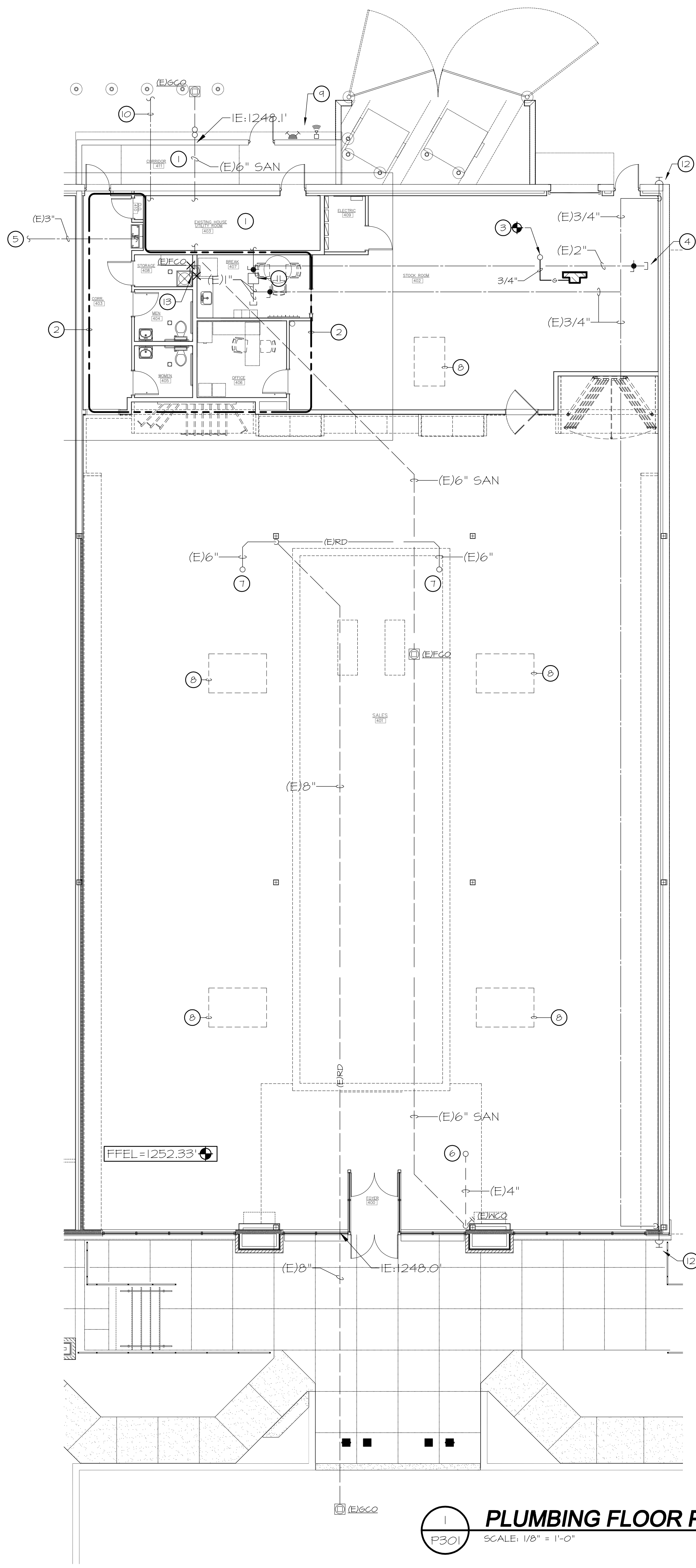
## REFLECTED CEILING LEGEND

- |  |  |  |   |
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|  |  |  | SURFACE MOUNTED<br>FLUORESCENT LUMINAIRE  |
|  |  |  | RECESSED FLUORESCENT LUMINAIRE  |
|  |  |  | FLUORESCENT STRIP LUMINAIRE   |
|  |  |  | SURFACE MOUNTED LUMINAIRE<br>RECESSED LUMINAIRE<br>RECESSED DIRECTIONAL LUMINAIRE   |
|  |  |  | PENDANT LUMINAIRE<br>SPEAKER<br>(THERMAL) O <sub>1</sub> (SMOKE) O <sub>2</sub> FIRE DETECTION UNITS  |
|  |  |  | TRACK LIGHTING<br>(SLOT) (EXHAUST) (RETURN) (SUPPLY)  |
|  |  |  | MECHANICAL AIR DEVICE<br>(SLOT) (EXHAUST) (RETURN) (SUPPLY)   |
|  |  |  | RECESSED PENDANT AND/OR<br>UPRIGHT MOUNTED SPRINKLER<br>RECESSED SIDEHALL-SPRAY<br>SPRINKLER<br>GNB CEILING<br>(SEE ARCHITECTURAL DOCUMENTS<br>FOR ADDITIONAL INFO) |
|  |  |  | ACOUSTICAL PANEL CEILING TYP.<br>(SEE ARCHITECTURAL DOCUMENTS<br>FOR ADDITIONAL INFO)   |

NOTE:  
CEILING MOUNTED ELECTRICAL FIXTURES, DEVICES, AND MECHANICAL AIR DEVICES ARE SELECTIVELY LOCATED ON THE REFLECTED CEILING PLANS FOR COORDINATION PURPOSES ONLY. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR COMPLETE EXTENT OF RESPECTIVE WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DEVICE CEILING GRID LOCATION(S) BETWEEN THIS DRAWING AND THE RESPECTIVE ELECTRICAL AND MECHANICAL DRAWING(S).

## KEY NOTES

- AREA NOT IN SCOPE OF WORK.
- REFER TO 2/P301, THIS SHEET, FOR NEW WORK ASSOCIATED WITHIN THIS AREA.
- EXTEND (E) 3/4" CAPPED GAS LINE FROM STRUCTURE ABOVE DOWN TO (N) GAS FIRED UNIT HEATER, UH-1. RE: DETAIL 2/P101.
- (E) 2" DOMESTIC WATER MAIN CAPPED AND VALVED FOR FUTURE TENANT EXTENSION TO REMAIN.
- (E) 3" DOMESTIC WATER MAIN TO ADJACENT TENANT(S) TO REMAIN.
- (E) 4" V UP TO (E) 4" VTR TO REMAIN.
- (E) 6" RD PIPING UP TO (E) 6" ROOF DRAIN TO REMAIN.
- (E) ROOFTOP UNIT LOCATED ON ROOF ABOVE.
- (E) FIRE DEPARTMENT CONNECTION AND HORN & LIGHT TO REMAIN.
- (E) 6" COMBINATION FIRE / DOMESTIC WATER SERVICE TO REMAIN.
- (E) 1" WATER METER TO REMAIN.
- (E) SILLCOCK TO REMAIN.
- DEMOLISH (E) FLOOR CLEANOUT IN PREPARATION FOR EXTENDING THE SANITARY SEWER LINE. RE: 2/P301, THIS SHEET, FOR NEW WORK.
- REFER TO 3/P301, THIS SHEET FOR DOMESTIC WATER PIPING ASSOCIATED WITH THIS AREA.
- REFER TO 2/P301, THIS SHEET, FOR CONTINUATION.
- WATER HEATER MOUNTED ABOVE SERVICE SINK. RE: 3/P101 AND ARCHITECTURAL SHEET A1 FOR DETAILS AND ELEVATIONS OF WATER HEATER AND EXPANSION TANK.
- ROUTE 1/2" CW AND HW BRANCH PIPING DOWN IN WALL TO PLUMBING FIXTURE.
- 3" V UP TO 3" VTR. PAINT VTR TO MATCH ROOF.
- ROUTE 3/4" CW AND HW PIPING DOWN IN WALL. EXTEND 1/2" CW AND HW BRANCH PIPING FROM 3/4" MAINS TO EACH LAVATORY.
- ROUTE 3/4" CW PIPING DOWN IN WALL. EXTEND 1/2" CW BRANCH PIPING FROM 3/4" MAIN TO EACH WATER CLOSET.
- CONNECT (N) 4" SANITARY PIPING TO (E) 6" SANITARY MAIN.
- SPRINKLER HEAD LOCATED IN STOCK ROOM.
- SPRINKLER HEAD LOCATED IN SALES, WITHIN DISPLAY COVE.
- SPRINKLER HEAD LOCATED IN CONCEALED SPACE ABOVE ENTRY FOYER. RE: ARCHITECTURAL SHEET A1 FOR DETAILS.
- SPRINKLER HEAD LOCATED IN ENTRY FOYER.



1  
P301  
**PLUMBING FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

REFERENCE SPECIFICATIONS

REVISIONS

FERNISLER - ARCHITECTURE, LLC

ARCHITECTURE - MANAGEMENT - ENGINEERING

521 EAST BEAVER AVE., STATE COLLEGE, PA 16801  
PHONE (814) 234-6806 FAX (814) 234-0256  
EMAIL: fha@fha.com

PRELIMINARY FIT OUT  
FOR PIER ONE IMPORTS

NOT FOR CONSTRUCTION

PROPOSED PIER ONE IMPORTS "FIT OUT"  
LOCATED IN TENANT SPACE #4

TRADER JOE'S PLAZA

C/O KEYSTONE REAL ESTATE GROUP, LP  
444 EAST COLLEGE AVENUE  
STATE COLLEGE, PA 16801

DATE DEC. 19, 2011

PROJ. NO. 1139

APPROVED BY THE ARCHITECT  
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PLUMBING  
AND FIRE PROTECTION  
FLOOR PLAN

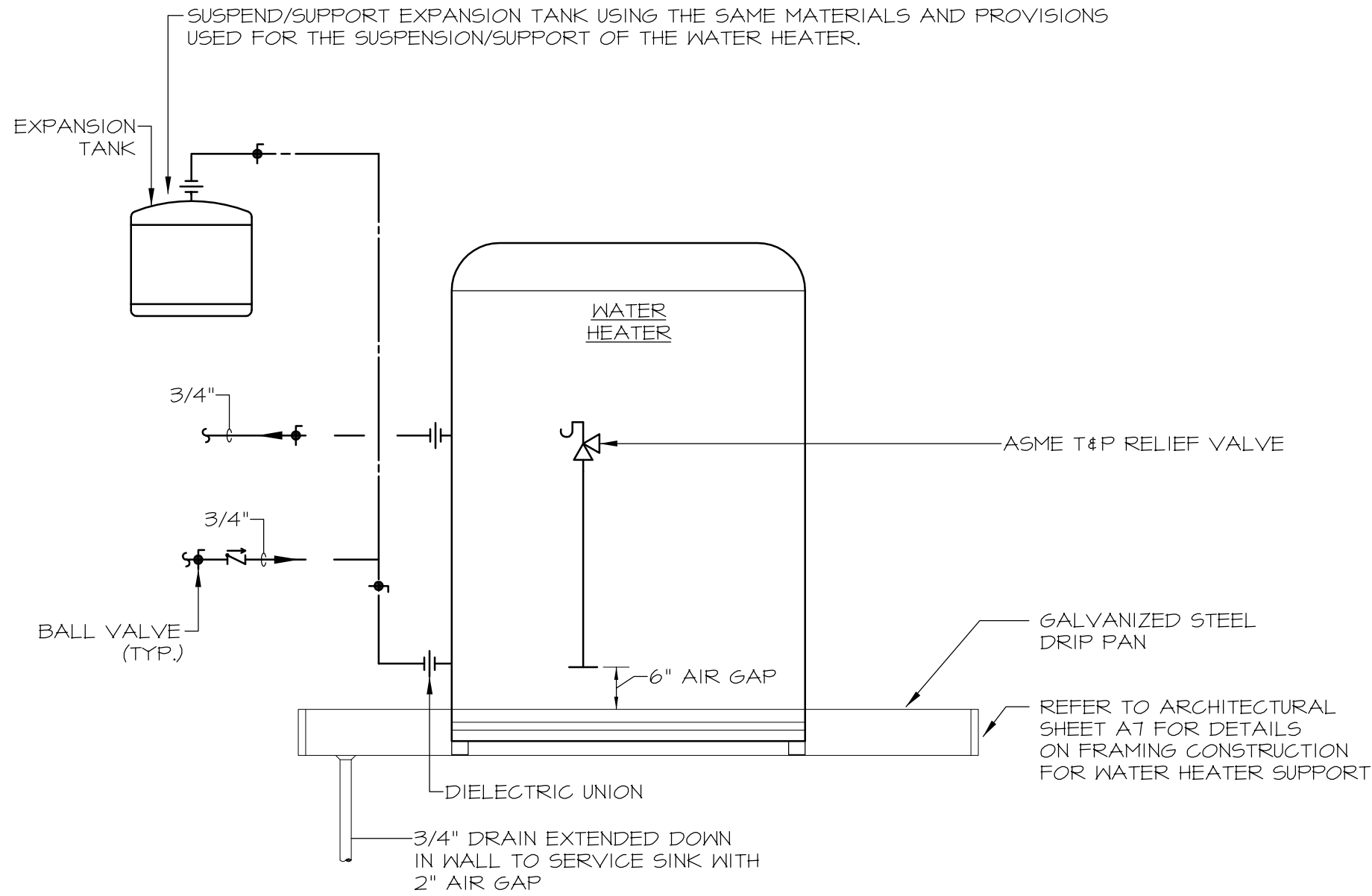
P301

REVISION



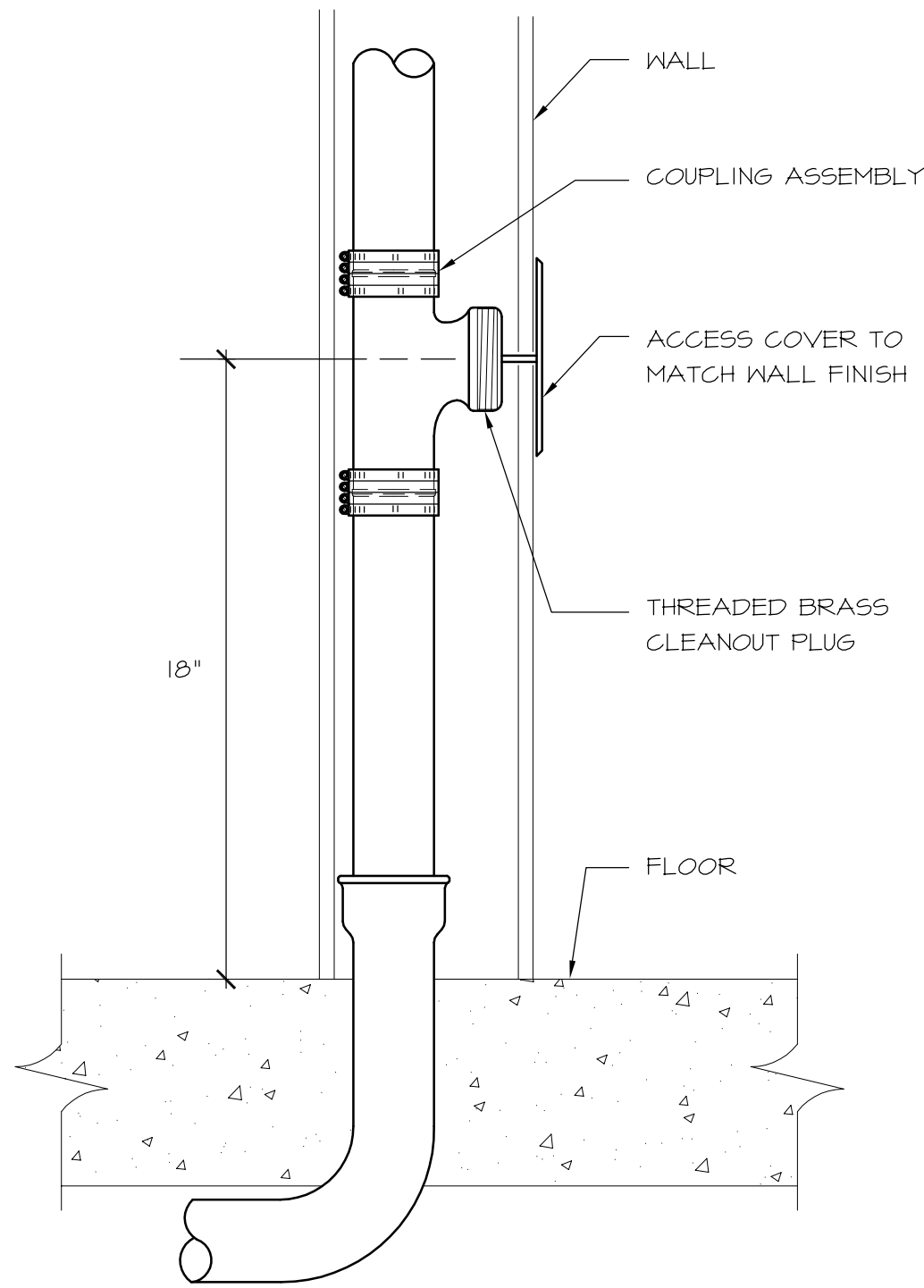
FIXTURE CONNECTION SCHEDULE

FIXTURE	COLD WATER	HOT WATER (120° F)	HOT WATER (140° F)	WASTE	VENT
PUBLIC FIXTURES:					
F.T. WATER CLOSET	1/2"	---	---	4"	2"
LAVATORY	1/2"	1/2"	---	2"	2"
1-CT SINK	1/2"	1/2"	---	2"	2"
SERVICE SINK	1/2"	1/2"	---	3"	2"
ELECTRIC WATER COOLER	1/2"	---	---	2"	1 1/2"

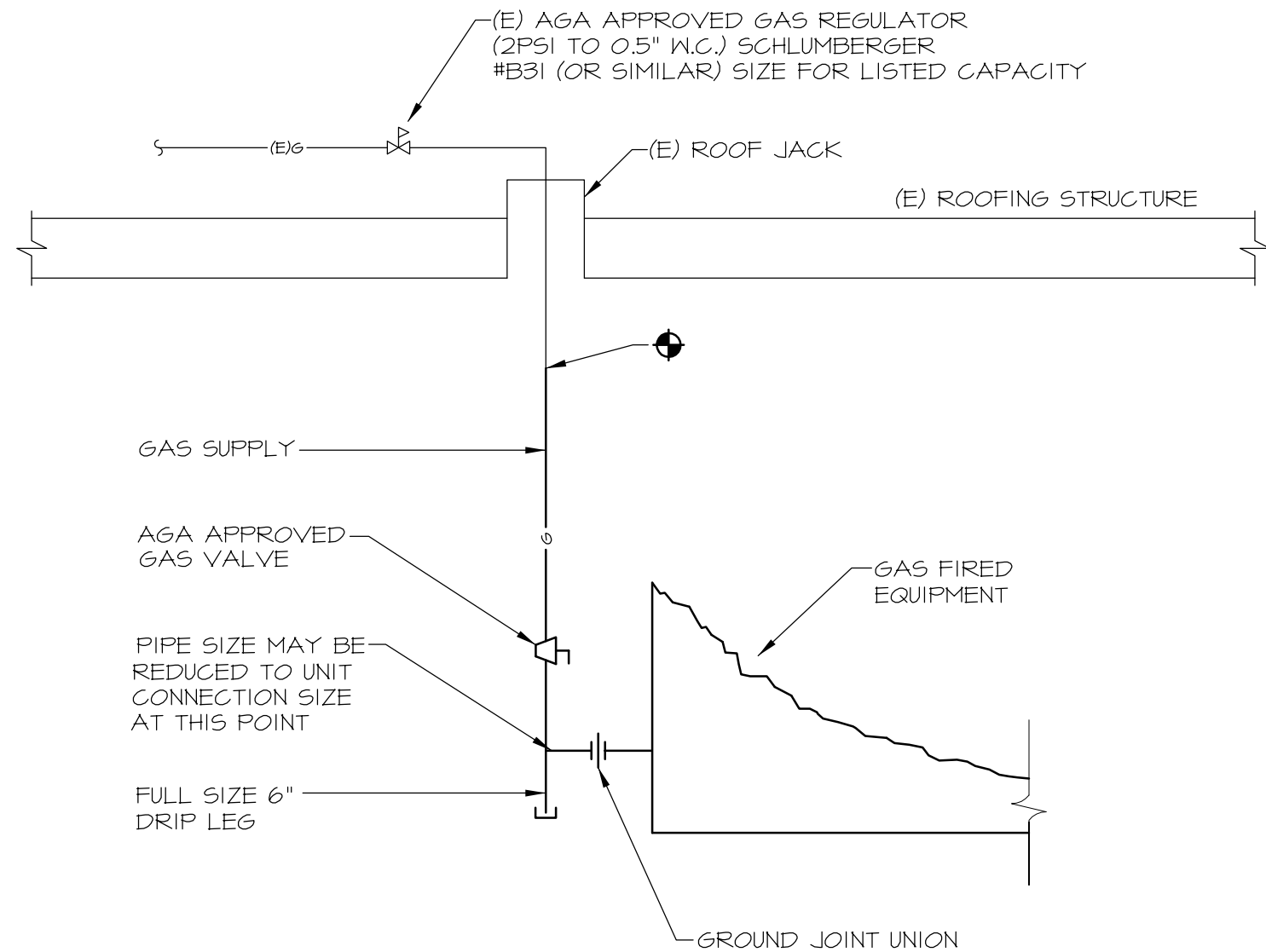


NOTE:  
REFER TO ARCHITECTURAL SHEET A7 FOR ADDITIONAL  
DETAILS AND ELEVATIONS OF WATER HEATER AND  
ASSOCIATED COMPONENTS.

3  
PT01  
WATER HEATER DETAIL  
SCALE: NONE



1  
PT01  
WALL CLEANOUT DETAIL  
SCALE: NONE



2  
PT01  
GAS PIPE CONNECTION DETAIL  
SCALE: NONE

SINK SCHEDULE

PLAN CODE	FIXTURE	MANUFACTURER	MODEL	ADA COMPLIANT	CONSTRUCTION	GAUGE	HOLE DRILLINGS	SIZE	FAUCET	DISPOSAL	DRAIN	NOTES
S-I	KITCHEN SINK	ELKAY	BCR15	NO	304 ST/ST	20	2	15"x15"x6"	AMERICAN STANDARD T400.IT2V	---	LK-35	1, 3
SS-I	SERVICE SINK	FIAT	MSB-2424	NO	MOLDED STONE	---	---	24"x24"x10"	FIAT 830-AA	---	1453-BB	2
1. PROVIDE 1/2" x 3/8" WHEEL HANDLE ANGLE VALVES WITH 20" CHROME RISERS. 1-1/2" CHROME PLATED BRASS TRAP, ONE PIECE CHROME ESCUTCHEONS. 2. PROVIDE 832-AA HOSE AND BRACKET, 884-GG MOP HANGER. 3. PROVIDE POKERS LFL-M445 WITH CHECK-STOPS BELOW SINK FOR REGULATED 110° HOT WATER SUPPLY.												

LAVATORY SCHEDULE

PLAN CODE	FIXTURE	MANUFACTURER	MODEL	ADA COMPLIANT	COLOR	SIZE	FAUCET	HOLE DRILLINGS	NOTES
L-I	WALL MOUNT	AMERICAN STANDARD	O355.O12	YES	BY ARCH	21"x19"	AMERICAN STANDARD T400.IT2V	2 @ 4" CENTERS	1, 2, 3, 4
1. PROVIDE 1/2" x 3/8" WHEEL HANDLE ANGLE VALVES WITH 12" CHROME RISERS. 1-1/4" CHROME PLATED BRASS TRAP, ONE PIECE CHROME ESCUTCHEONS. 2. PROVIDE TRUEBRO #103 INSULATION KIT. 3. PROVIDE WITH AMERICAN STANDARD T123.O18 GRID DRAIN WITH OVERFLOW. 4. PROVIDE POKERS LFL-M445 WITH CHECK-STOPS BELOW LAVATORY FOR REGULATED 110° HOT WATER SUPPLY.									

WATER CLOSET SCHEDULE

PLAN CODE	FIXTURE	MANUFACTURER (120° F)	MODEL	ADA COMPLIANT	COLOR	FLOOR TO RIM HEIGHT	SEAT	NOTES
WC-I	FLUSH TANK / PRESSURE ASSISTED	AMERICAN STANDARD	246T.100	YES	WHITE	16-1/2"	CHURCH 940055CT	1, 2
1. PROVIDE 1/2" x 3/8" WHEEL HANDLE ANGLE VALVE WITH 12" CHROME RISER AND ONE PIECE CHROME ESCUTCHEON. 2. HANDLE TO BE PROVIDED ON WIDE SIDE OF WATER CLOSET.								

WATER COOLER SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	ADA COMPLIANT	COLOR	FLOOR TO RIM HEIGHT	CARRIER	NOTES
WC-I	HALSEY TAYLOR	HTV8BL-G	YES	SEE NOTES	30-1/4" & 36-1/4"	PROVIDED	1, 2, 3, 4
1. PROVIDE 1/2"x3/8" WHEEL HANDLE ANGLE VALVE WITH 12" CHROME RISER AND ONE PIECE CHROME ESCUTCHEON, 1-1/4" CHROME PLATED BRASS TRAP. 2. COLOR SHALL BE SELECTED BY ARCHITECT. 3. PROVIDE VANDAL RESISTANT KIT AND WATER FILTER. 4. ELECTRICAL CONNECTION SHALL CONSIST OF ELECTRIC CORD AND 3-PRONG MOLDED RUBBER PLUG FOR USE WITH 15-AMP (MIN) RECEPTACLE.							

ELECTRIC WATER HEATER SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	STORAGE VOLUME (GAL)	RECOVERY RATE @ 80° F (GPH)	ELECTRICAL		SIZE		OPER WEIGHT (LBS)	NOTES
				VOLTAGE/ PHASE & HZ	KW	DIA. (IN)	H. (IN)		
WH-I	STATE WATER HEATERS # PCE 10 10MSA	10.0	10.0	120/1/60	2.0	18.0	18.25	55	1, 2
1. VERTICAL TANK WITH T & P RELIEF VALVE. 2. SINGLE ELEMENT.									

EXPANSION TANK SCHEDULE

PLAN CODE	SERVICE	WATER TEMP °F	% PG	TANK VOL (GAL)	ACCEPT VOL (GAL)	DIA (IN)	H (IN)	OPER WEIGHT (LBS)	MANUFACTURER & MODEL NO.	NOTES
ET-I	DOMESTIC HOT WATER	110	0	2.1	0.9	10	11	40	AMTROL ST-5-C	1
1. ASME CERTIFIED TANK.										

DRAIN SCHEDULE

PLAN CODE	TYPE	MANUFACTURER	MODEL	NOTES
FD-I	FLOOR DRAIN	J.R. SMITH	2010G-B06CPJ	1, 2
1. PROVIDE WITH SURE SEAL 5630000 INLINE TRAP SEALER INSERT. 2. PROVIDE WITH 6" SQUARE STRAINER, CHROME PLATED WITH VANDAL PROOF SCREWS.				

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PLUMBING SCHEDULES  
AND DETAILS  
P701

REVISION

FERNSLER - ARCHITECTURE, LLC  
ARCHITECTURE - MANAGEMENT - ENGINEERING

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REFERENCE SPECIFICATIONS

REVISIONS

DATE NO. BY

ELECTRICAL LEGEND AND ABBREVIATIONS			ELECTRICAL SPECIFICATIONS			ELECTRICAL GENERAL NOTES		
ABBREVIATIONS			COMMUNICATIONS SYMBOLS			POWER SYMBOLS		
<div><div>A AMPERE(S)</div><div>AC ABOVE COUNTER</div><div>AFC ABOVE FINISHED CEILING</div><div>AFF ABOVE FINISHED FLOOR</div><div>AFG ABOVE FINISHED GRADE</div><div>AFI ARC FAULT CIRCUIT INTERRUPTER</div><div>AHJ AUTHORITY HAVING JURISDICTION</div><div>AIC AMPERES INTERRUPTING CURRENT</div><div>ATS AUTOMATIC TRANSFER SWITCH</div><div>BFG BELOW FINISHED CEILING</div><div>BRF BELOW RAISED FLOOR</div><div>C CONDUIT</div><div>CATV CABLE TELEVISION</div><div>CB CIRCUIT BREAKER</div><div>CKT CIRCUIT</div><div>CT CURRENT TRANSFORMER</div><div>DISC DISCONNECT</div><div>DIST DISTRIBUTION</div><div>DWG(S) DRAWINGS(S)</div><div>(E) EXISTING; TO REMAIN - MAINTAIN CIRCUIT CONTINUITY TO EXISTING DEVICES. FOR LUMINAIRES, CLEAN LENSES AND REPLACE FAILED LAMPS, UNLESS OTHERWISE NOTED. NEW LAMPS ARE TO MATCH EXISTING LAMPS COLOR TEMPERATURE. FOR WIRING DEVICES, CLEAN FACEPLATES, UNLESS OTHERWISE NOTED.</div><div>EG ELECTRICAL CONTRACTOR OR EMPTY CONDUIT</div><div>EF EXHAUST FAN</div><div>(ER) EXISTING TO RELOCATE - MAINTAIN CIRCUIT CONTINUITY TO DEVICES. REMOVE, RELOCATE OR REWORK ANY CONDUIT AND WIRING TO FACILITATE NEW CONSTRUCTION. FOR LUMINAIRES EXISTING TO BE RELOCATED, CLEAN LENSES AND REPLACE FAILED LAMPS, UNLESS OTHERWISE NOTED. NEW LAMPS ARE TO MATCH EXISTING LAMPS COLOR TEMPERATURE. FOR WIRING DEVICES EXISTING TO BE RELOCATED, CLEAN FACEPLATES, UNLESS OTHERWISE NOTED.</div><div>EM EMERGENCY</div><div>EPO EMERGENCY POWER OFF</div><div>EWG ELECTRIC WATER COOLER</div><div>(EX) EXISTING, REMOVE - MAINTAIN CIRCUIT CONTINUITY DURING AND AFTER DEMOLITION TO EXISTING CIRCUITS AND DEVICES TO REMAIN. REMOVE, RELOCATE OR REWORK ANY CONDUIT AND WIRING TO FACILITATE NEW CONSTRUCTION.</div><div>F FUSE</div><div>FEF FIRE EXTINGUISHER BLUE LIGHT</div><div>FLA FULL LOAD AMPS</div><div>G GROUND</div><div>GC GENERAL CONTRACTOR</div><div>GFI GROUND FAULT CIRCUIT INTERRUPTER</div><div>HORIZ HORIZONTAL</div><div>HP HORSEPOWER</div><div>IDF INTERMEDIATE DATA FRAME</div><div>IG ISOLATED GROUND</div><div>ILT LET THROUGH CURRENT</div><div>ISC SHORT CIRCUIT CURRENT</div><div>KV KILOVOLTS</div><div>KVA KILOVOLT AMPERE(S)</div><div>KW KILOWATT(S)</div><div>LVC LOW VOLTAGE CONTRACTOR</div><div>LTG LIGHTING</div><div>MC MECHANICAL CONTRACTOR</div><div>MGA MINIMUM CIRCUIT AMPS</div><div>MCB MAIN CIRCUIT BREAKER</div><div>MDC MAIN DISTRIBUTION CENTER</div><div>MDF MAIN DATA FRAME</div><div>MLO MAIN LUGS ONLY</div><div>MTS MANUAL TRANSFER SWITCH</div><div>MV MEDIUM VOLTAGE</div><div>NC NORMALLY CLOSED</div><div>NL NIGHT LIGHT/SECURITY LIGHT, CONNECT LIGHTS AHEAD OF LOCAL SWITCHING TO OPERATE CONTINUOUSLY</div><div>NO NORMALLY OPEN</div><div>OAE OR APPROVED EQUAL</div><div>OH OVERHEAD</div><div>P POLE</div><div>PH PHASE</div><div>PNL PANEL</div><div>REC RECEPTACLE</div><div>(RL) RELOCATE - MAINTAIN CIRCUIT CONTINUITY TO NEW LOCATION OF EXISTING DEVICE(S). REMOVE, RELOCATE OR REWORK ANY CONDUIT AND WIRING TO FACILITATE RELOCATION. FOR LUMINAIRES, CLEAN LENSES AND REPLACE DEAD LAMPS, UNLESS OTHERWISE NOTED. NEW LAMPS ARE TO MATCH EXISTING LAMPS IN COLOR TEMPERATURE. FOR WIRING DEVICES, CLEAN FACEPLATES, UNLESS OTHERWISE NOTED.</div><div>SCA SHORT CIRCUIT CURRENT AVAILABLE</div><div>SW SWITCH</div><div>TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION</div><div>UC UNDERCOUNTER/CABINET</div><div>UG UNDERGROUND</div><div>UON UNLESS OTHERWISE NOTED</div><div>V VOLT(S)</div><div>VA VOLT AMPERES</div><div>W WATT(S) OR WIRE</div><div>WG WIREGUARD</div><div>WP WEATHERPROOF</div><div>XFMR TRANSFORMER</div></div> <div><div><div><div><div>▽</div><div>TELECOMMUNICATIONS OUTLET PROVISIONS (#18" AFF, UON)</div></div><div><div>⊙</div><div>SPEAKER</div></div><div><div>⊙</div><div>MASTER CLOCK (#46" AFF, UON)</div></div><div><div>—</div><div>SYSTEM BACKBOARD</div></div><div><div>⊠</div><div>DOOR BELL</div></div></div><div><div><div><div>●</div><div>THERMAL DETECTOR</div></div><div><div>●</div><div>SMOKE DETECTOR</div></div><div><div>●</div><div>DUCT DETECTOR</div></div><div><div>⊠</div><div>AUDIBLE/VISUAL NOTIFICATION DEVICE (#4" = MINI NOTIFICATION DEVICE) (#10" AFF OR 6' BELOW CEILING)</div></div><div><div>⊠</div><div>VISUAL NOTIFICATION DEVICE (#10" AFF OR 6' BELOW CEILING)</div></div><div><div>⊠</div><div>MANUAL PULL STATION (#44" AFF TO OPERATING LEVER)</div></div><div><div>⊠</div><div>FLOW SWITCH</div></div><div><div>⊠</div><div>TAMPER SWITCH</div></div><div><div>⊠</div><div>FIRE ALARM CONTROL PANEL</div></div><div><div>⊠</div><div>FIRE ALARM ANNUNCIATOR</div></div></div><div><div><div><div>○</div><div>CEILING LUMINAIRE - SURFACE MOUNTED</div></div><div><div>○</div><div>CEILING LUMINAIRE - RECESSED</div></div><div><div>○</div><div>WALL MOUNTED LUMINAIRE</div></div><div><div>⊙</div><div>PENDANT MOUNTED LUMINAIRE</div></div><div><div>⊙</div><div>PHOTO CELL</div></div><div><div>⊠</div><div>FLUORESCENT LUMINAIRE - SURFACE MOUNTED</div></div><div><div>⊠</div><div>FLUORESCENT LUMINAIRE - RECESSED</div></div><div><div>⊠</div><div>LINEAR PENDANT LUMINAIRE</div></div><div><div>⊠</div><div>FLUORESCENT STRIP LUMINAIRE/ANDER CABINET LUMINAIRE (LENGTH AS SHOWN ON DRAWING)</div></div><div><div>○</div><div>SINGLE FACE EXIT LUMINAIRE - CEILING MOUNTED</div></div><div><div>○</div><div>DUAL FACE EXIT LUMINAIRE - CEILING MOUNTED</div></div><div><div>⊠</div><div>SINGLE FACE EXIT LUMINAIRE - WALL MOUNTED</div></div><div><div>⊠</div><div>DUAL FACE EXIT LUMINAIRE - WALL MOUNTED</div></div><div><div>⇄</div><div>EGRESS ARROWS</div></div><div><div>⊠</div><div>TRACK LIGHTING (NUMBER OF HEADS AS SHOWN ON DRAWING)</div></div><div><div>⊠</div><div>REMOTE EMERGENCY LIGHTING HEAD</div></div><div><div>⊠</div><div>EMERGENCY LUMINAIRE WITH INTEGRAL BATTERY PACK</div></div><div><div>●</div><div>SHADING DENOTES EMERGENCY FIXTURE, UON</div></div></div></div><div><div><div><div>⊠</div><div>SINGLE POLE SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>DOUBLE POLE SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>THREE-WAY SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>FOUR-WAY SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>DIMMER SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>FAN AND/OR FANLIGHT SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>KEY OPERATED SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>SINGLE POLE ILLUMINATED SWITCH (ILLUMINATED WHEN OFF) (#44" AFF, UON)</div></div><div><div>⊠</div><div>LOW VOLTAGE SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>MASTER DIMMER SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>OCCUPANCY SENSOR SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>SWITCH WITH PILOT LIGHT (ILLUMINATED WHEN ON) (#44" AFF, UON)</div></div><div><div>⊠</div><div>TIMER SWITCH (#44" AFF, UON)</div></div><div><div>⊠</div><div>OCCUPANCY SENSOR (C = CORRIDOR)</div></div><div><div>⊠</div><div>OCCUPANCY SENSOR (L = LARGE)</div></div><div><div>⊠</div><div>OCCUPANCY SENSOR (S = SMALL)</div></div><div><div>⊠</div><div>LIGHTING CONTACTOR</div></div><div><div>⊠</div><div>PHOTOELECTRIC CELL</div></div></div></div><div><div><div><div>⊠</div><div>EQUIPMENT 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(THIS SHEET ONLY)

A. LIGHTING FIXTURES WITH (E) NOTATION ARE EXISTING TO REMAIN  
POWERED FROM HOUSE PANEL CIRCUITING AND CONTROL.

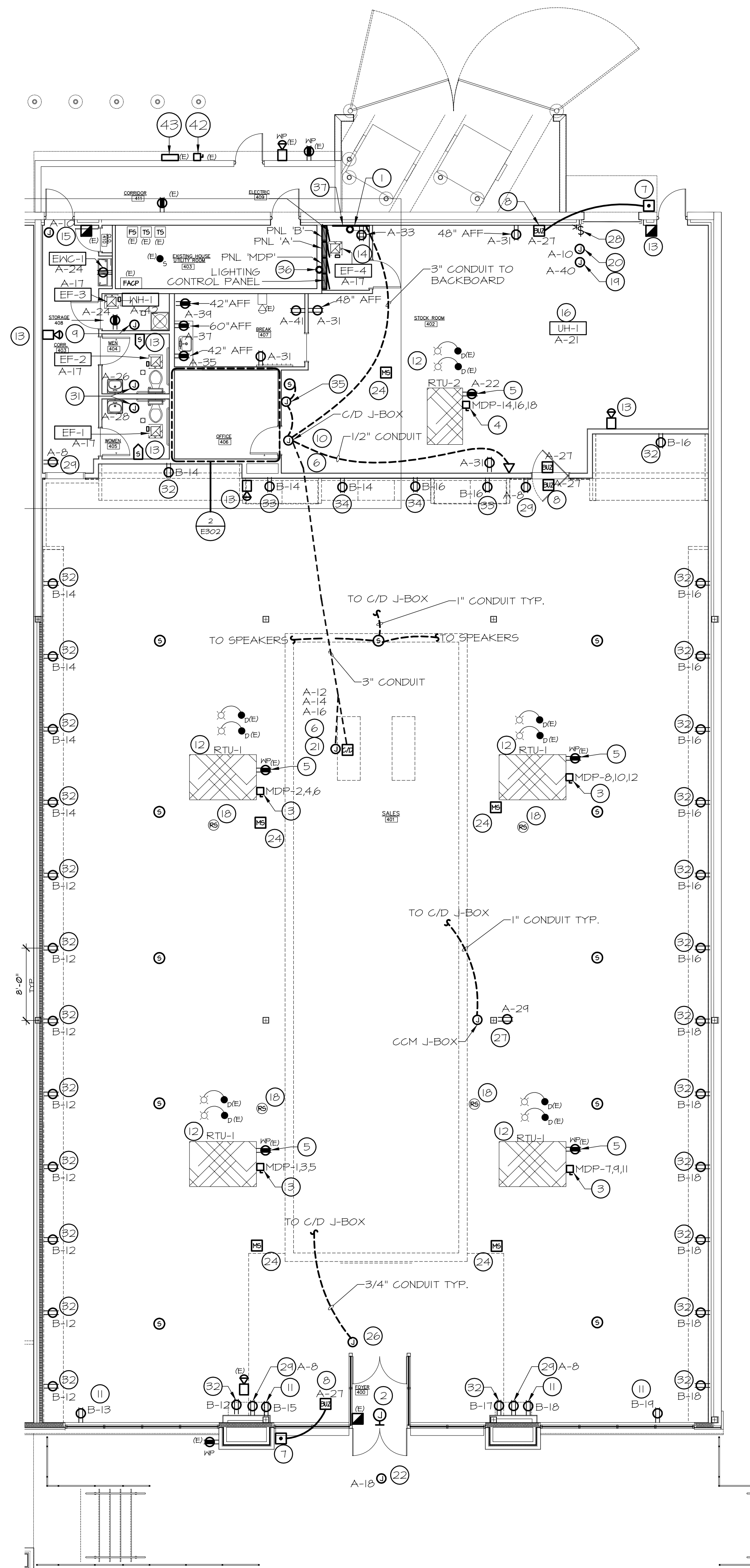
- ① ROUTE THROUGH DISPLAY CONTACTOR.
- ② OPEN/CLOSE BUTTON FOR LIGHTING ACTIVATION.  
SEE SHEET E100 FOR FURTHER INFORMATION.
- ③ ALL '6' AND '6I' FIXTURES TO BE HUNG AT 13'-6" AFF.
- ④ CONNECT LIGHTS WITH SALES "WORK" LIGHTS CIRCUIT.
- ⑤ CONTINUOUS TRACK T1 MOUNTED 1" BEHIND PERIMETER OF 2'X2' GRID SIDES AND REAR OF CEILING.
- ⑥ MOUNT 2'X2' FIXTURES W/ TUBES PARALLEL TO ENTRY.
- ⑦ TRACK LIGHTING MOUNTED TO 2'X2' OPEN CELL GRID AT 12'-6" AFF W/ MANUFACTURER CLIPS. TYPICAL.
- ⑧ NEW EXIT SIGN AND EMERGENCY LIGHTING. CONTRACTOR TO REPLACE EXISTING SIGN AND RE-CIRCUIT AS INDICATED.
- ⑨ ROUTE THROUGH SIGN CONTACTOR.
- ⑩ INTERLOCK ROOM EXHAUST FAN WITH LIGHT SWITCH.

CURRENT LIMITER BREAKER SCHEDULE					
TRACK LENGTH		BREAKER SIZE (AMPS)	MANUFACTURER & CATALOG NO.	# TRACK HEADS SHOWN	MAX # TRACK HEADS
8' 0"		240	JUNO TCL24H	2	4
16' 0"		240	JUNO TCL36H	4	4
20' 0"		360	JUNO TCL46H	5	7
24' 0"		360	JUNO TCL54H	6	7
64' 0"		600	JUNO TCL66H	10	12
83' 0"		840	JUNO TCL74H	14	16

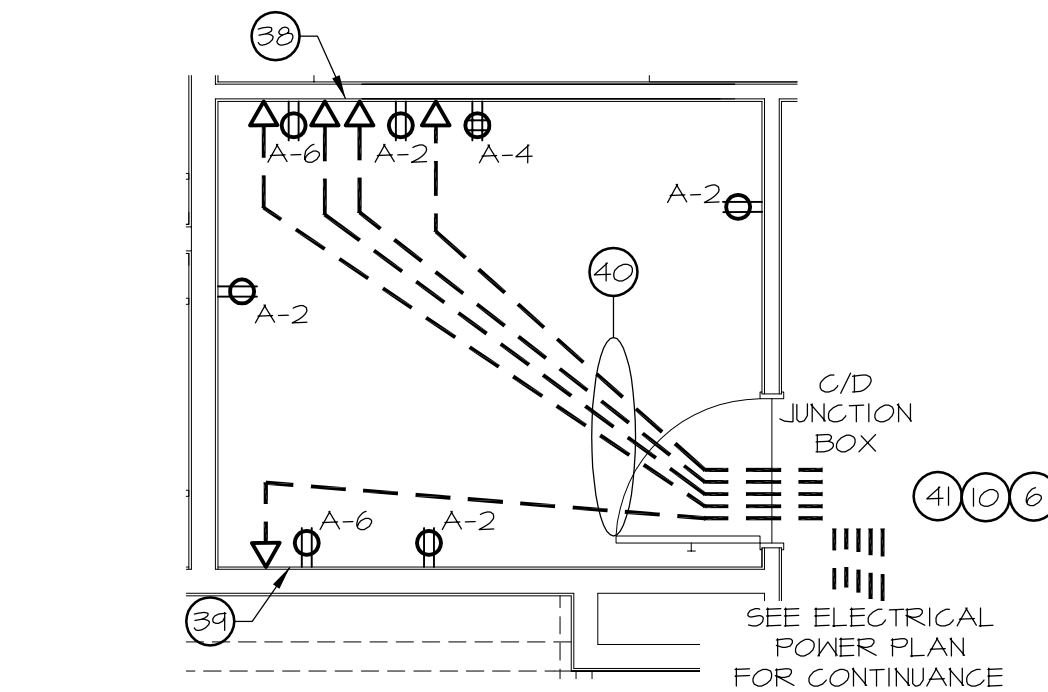
KEY	DESCRIPTION	LAMPS	WATTS	MANUFACTURER & CATALOG NO.	VOLTAGE	KEY NOTES	MOUNTING
B	WALL MOUNTED EMERGENCY LIGHT W/	(2) 54W INCANDESCENT	11	LIGHTOLIER 561W	120 / 6	2	SURFACE
B / E	COMBINATION WALL MOUNTED EMERGENCY LIGHTING / EXIT LIGHTING	-NA-	-NA-	LIGHTOLIER LLC20RN	120 / 6	2	SURFACE
E	EXIT LIGHT W/ UNIVERSAL MOUNT, UNIVERSAL ARROW, BATTERY BACKUP, W/ CHARGER	-NA-	-NA-	LIGHTOLIER LLNRN	120	4	SURFACE
G	8' - (4) LAMP STRIP FLUORESCENT	(4) TB F0324V830 3000K	98	LIGHTOLIER K98523UNVH4	120	5	SURFACE
G1	8' - (4) LAMP STRIP FLUORESCENT W/ EMERGENCY BALLAST 400 LUMEN	(4) TB F0324V830 3000K	98	LIGHTOLIER K98523UNVH4-EVP	120		SURFACE
K	4' - (2) LAMP STRIP FLUORESCENT W/ 5/8"2PI STRAIGHT ARM & H863FP MOUNTING PLATE	(2) TB F0324V830 3000K	51	EXCELINE K1AFP23K2CFQBE	120		SURFACE STORE FRONT
L	4' - (2) LAMP STRIP FLUORESCENT	(2) TB F0324V830	51	LIGHTOLIER K9H523UNVH	120	6	SURFACE OR HANG
M	2'x2' LAY IN FLUORESCENT 6 CELL WHITE PARABOLIC	(2) FT40CLV830/RSV E60/3000K	(2) 40	DAT BRITE 2LP3652CF4OR-23N- INV-1/2-EB	120	1	LAY IN
MI	2'x2' LAY IN FLUORESCENT W/ 400 LUMEN BATTERY 6 CELL WHITE PARABOLIC	(2) FT40CLV830/RSV E60/3000K	(2) 40	DAT BRITE 2LP3652CF4OR-23N- INV-1/2-EB-EI	120	1	LAY IN
M4	2'x2' LAY IN FLUORESCENT W/ FRAME-IN KIT FOR HARD LID CEILING - FKDP22	(2) FT40CLV830/RSV E60/3000K	(2) 40	DAT BRITE 2LP3652CF4OR-23N- INV-1/2-EB-EI	120	1	SURFACE
N	RECESSED FLUORESCENT	40W CP422TEIN830	42	LIGHTOLIER R022-19H4-5742B-1H5-H86	120		RECESSED
T	35W CH1 SPOT TRACK HEAD W/ HATCH BALLAST	1H1 LAMP5 SYLVANIA HCBT6/ W62/830PB	10	JNO SP25546-3H-1H1	120	8	TRACK
	4'-0" TRACK	-NA-	-NA-	JNO, T49H1	120	8	SURFACE
	6'-0" TRACK	-NA-	-NA-	JNO, T69H1		8	
	8'-0" TRACK	-NA-	-NA-	JNO, T89H1		8	
	12'-0" TRACK	-NA-	-NA-	JNO, T129H1		8	
	TRACK MOUNTING CLIPS	-NA-	-NA-	JNO, T37F			
	IN LINE CONNECTOR	-NA-	-NA-	JNO, T249H1			
	CURRENT LIMITING FEED	-NA-	-NA-	JNO, TCLF19H1			
	CURRENT LIMITING CIRCUIT BREAKER	-NA-	-NA-	JNO, RE, SCHEDULE			
VI	35W CH1 WALL WASH TRACK HEAD W/ HATCH BALLAST	1H1 HCBT6/ W62/830PB	10	JNO SP25547-3H-1H1	120	4	TRACK
X	4'-0" PENDANT	(2) TB F0324V830 3000K	51	LIGHTOLIER S0624CP5UNV-S06EC56	120	10	HANG
X-EM	4'-0" PENDANT W/ EMERGENCY BATTERY	(2) TB F0324V830 3000K	51	LIGHTOLIER S0624CP5UNV-EI-S06EC36X4	120	10	HANG

C. PACKAGE PRICINGS FOR LIGHT FIXTURES, TRACK AND LAMPS BY CED NATIONAL.  
ADDITIONAL SPECIFICATIONS, CLEANING INFORMATION AND INSTALLATION INSTRUCTIONS MAY BE OBTAINED FROM 'CED',  
ANY CONDUIT, PIPING, OR WIRING IN AREAS WITHOUT CEILINGS, SHALL BE MOUNTED ABOVE BOTTOM GRID JOISTS.  
E. REBAR FIXTURES PACKAGE AS SPECIFIED, WITH SUBSTITUTIONS ALLOWED.  
F. ALL LIGHT FIXTURES AND LIGHTSIGHT LIGHTING CONTROL SYSTEMS TO BE PURCHASED THROUGH CED NATIONAL.  
REFER TO CONTACTS LIST ON SHEET I. ADDITIONAL SPECIFICATIONS, TECHNICAL AND INSTALLATION INSTRUCTION  
REGARDING LIGHTSIGHT LIGHTING CONTROL SYSTEM MAY BE OBTAINED FROM LIGHTSIGHT, INC. REFER TO CONTACTS LIST ON SHEET E100.  
G. ANY EXPOSED CONDUIT, J-BOX, ETC IN AREAS WITHOUT CEILINGS, INCLUDING AREAS WITH 2X2 OPEN GRID SHALL BE PAINTED W/ PAINT 'A'.  
H. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF ALL WALL MOUNTED LUMINAIRES

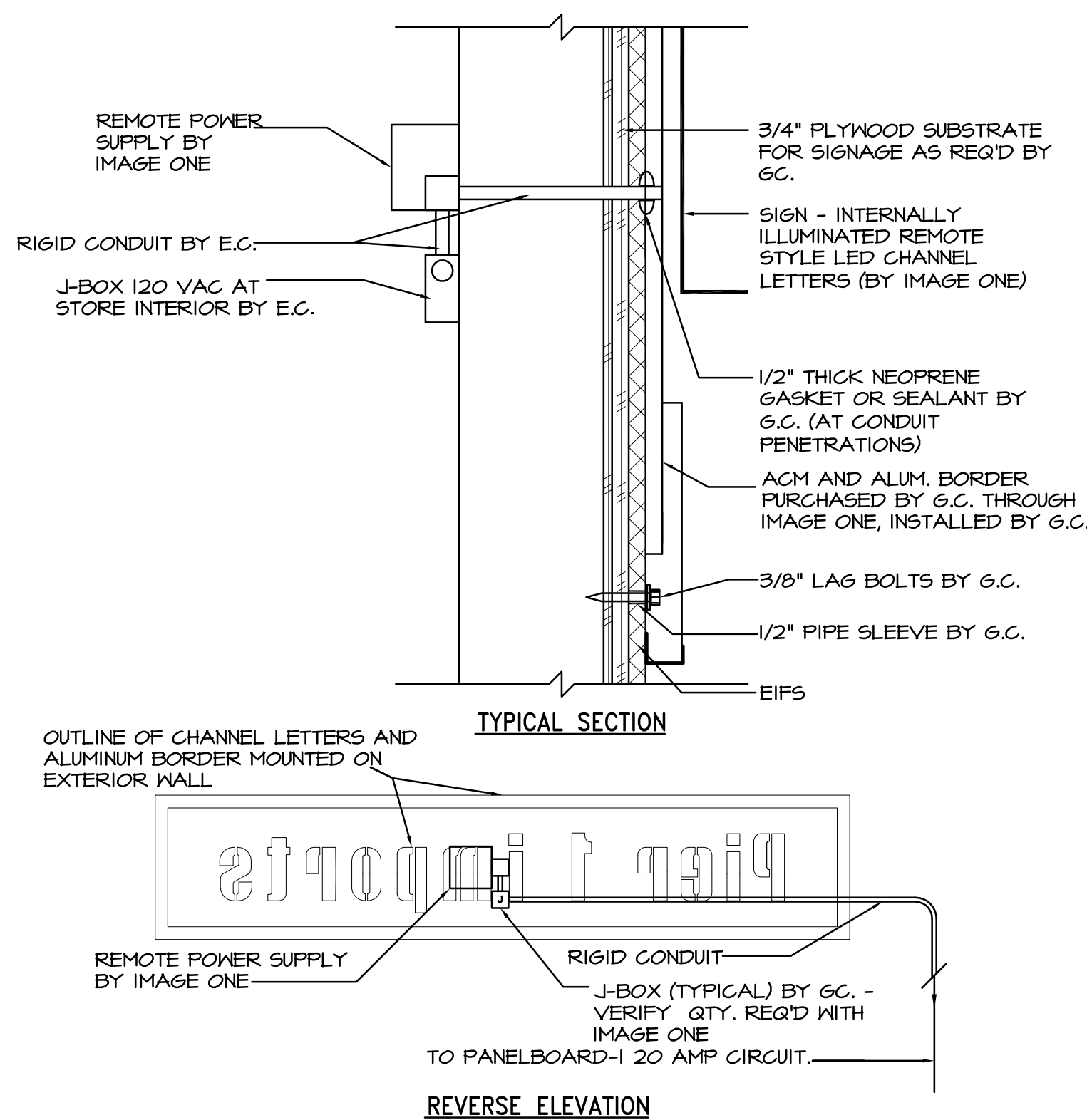
1. MOUNT AT 0° - 6" AFF
2. MOUNT AT 11° - 0" AFF
3. MOUNT AT 14° - 0" AFF
4. MOUNT AT 11° - 0" AFF, OR PER LOCAL CODE REQUIREMENTS
5. HANG FROM STRUCTURE AT 13° - 6" AFF
6. INSTALL RHM, MOUNT TO CLAMP GRID, ELECTRIC ROOM. HANG FROM STRUCTURE AT 13°-6" AFF
7. STORAGE FISHMOUNT & LUMPS PARALLEL TO STOREFRONT ENTRY
8. MOUNT IN CENTER OF 24"x24" GRID, PROVIDE 20A CIRCUIT FOR EACH 24 LINEAL FOOT OF RACK AT 120V
9. TRACK AT PERIMETER LAY-IN GRID
10. SUSPENDED AT CENTER PURCHASED



1 **ELECTRICAL POWER PLAN**  
E302 SCALE: 1/8" = 1'-0"



2 **OFFICE POWER PLAN**  
E302 SCALE: 1/4" = 1'-0"



3 **SIGN ELECTRICAL POWER DETAIL**  
E302 SCALE: NONE

**SIGN INSTALLATION NOTES:**

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING J-BOXES, RIGID CONDUIT, AND MAKING FINAL CONNECTIONS.

**GENERAL NOTES**

(THIS SHEET ONLY)

- A. REFER TO E001 FOR GENERAL NOTES THAT APPLY TO ALL ELECTRICAL DRAWINGS.
- B. 350' MAX RUN OF 2" CONDUIT FROM PHONE BOARD TO CASHWRAP.

**KEY NOTES**

- 1 TELEPHONE BOARD. SEE SHEET E100 DETAIL 2 FOR FURTHER INFORMATION.
- 2 EXISTING JUNCTION BOX WITH CONDUIT ABOVE CEILING FOR FUTURE AUTOMATIC DOORS.
- 3 60 AMP 208 VOLT 3 PHASE NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE MOUNTED ON RTU-1 & RTU-2. CONTRACTOR TO UTILIZE EXISTING CONDUIT FOR CIRCUITING. PROVIDE 4-#8AWG COPPER COND. & #10AWG GND.
- 4 NOT USED.
- 5 EXISTING 20 AMP 120 VOLT WATERPROOF GFI CONVENIENCE OUTLET TO REMAIN.
- 6 APPROXIMATE LOCATION OF POWER, COMMUNICATION/DATA JUNCTION BOX SERVING CASHWRAP. MOUNT AT 1'-0" ABOVE GRID. RUN 2" CONDUIT ABOVE BOTTOM CHORD OF TRUSSES W/ PULL WIRE FROM TELEPHONE BOARD TO C/D BOX AT OFFICE AND FROM C/D AT OFFICE TO C/D AT CASHWRAP. RUN 3/4" CONDUIT FROM C/D AT CASHWRAP TO J-BOX AT ENTRY DOORS. RUN 3/4" CONDUIT W/ PULL WIRE FROM ALL DATA, PAGER AND TELEPHONE OUTLETS TO C/D BOX.
- 7 PUSH BUTTON FOR ENTRY AND REAR DOOR BUZZER TO BE LOCATED 4'-0" AFF. INTERLOCK W/ BUZZERS AS SHOWN. SEE NOTE 8 FOR TYPE.
- 8 DOOR BUZZER TO BE MOUNTED ON WALL AT 13'-0" AFF. BUZZER SHALL BE GRANGER #1FD4 (FRONT DOOR) AND #1FD15 (DELIVERY DOOR), W/ #4XT42 TRANSFORMER. BUZZER SHALL BE ENERGIZED BY WEATHERPROOF PUSH BUTTON #1FD17, INSTALLED OUTSIDE ADJACENT TO THE REAR DELIVERY DOOR AND AT ENTRY AT 4'-0" ABOVE GRADE.
- 9 30 AMP 120 VOLT NON-FUSED SAFETY SWITCH MOUNTED ON WALL 42" ABOVE PLATFORM FOR RHH.
- 10 C/D J-BOX (12"x12"x4") MOUNTED ABOVE OFFICE DOOR @ 11'-0" AFF.
- 11 MOUNT DUPLEX OUTLET 6" ABOVE CEILING GRID, CIRCUIT TO LCP, DISPLAY CIRCUIT, THROUGH DISPLAY CONTACTOR.
- 12 SMOKE DETECTOR IN SUPPLY & RETURN AIR DUCTS. INTERLOCK W/ HVAC UNITS CONTROL TO DEACTIVATE SYSTEM.
- 13 CONTRACTOR TO PROVIDE AND INSTALL FIRE ALARM INITIATION AND NOTIFICATION EQUIPMENT AND CONNECT TO EXISTING FIRE ALARM SYSTEM. CONTRACTOR TO MATCH MANUFACTURER AND MODEL# OF EQUIPMENT AND HAVE SYSTEM RE-CERTIFIED UPON COMPLETION OF INSTALLATION.
- 14 INTERLOCK EXHAUST FAN WITH LIGHT SWITCH AND LINE VOLTAGE THERMOSTAT. EC IS RESPONSIBLE FOR ALL CONDUIT, CABLEING AND FINAL ELECTRICAL CONNECTIONS TO THERMOSTAT, SWITCH, AND FAN.
- 15 J-BOX AT T-0" AFF W/ 120V CIRCUIT FOR DETEX.
- 16 UNIT HEATER. SEE MECHANICAL DRAWINGS.
- 17 NOT USED.
- 18 CONTRACTOR SHALL PROVIDE AND INSTALL EXT CONDUIT AND T-STAT WIRE FOR REMOTE SENSORS IN A 6"x6 NEMA 4 J-BOX. PROVIDE AN EXTRA 15 FEET OF WIRE IN J-BOX. MOUNT TO BOTTOM OF J-BOX @ 1'-0" ABV. CLG. GRID. TYPICAL FOR (4) PLACED AS SHOWN ON PLAN.
- 19 DISCONNECT FOR OVERHEAD DOOR AT 13'-0" A.F.F.
- 20 J-BOX AT T-0" AFF W/ 120V CIRCUIT FOR DETEX.
- 21 C/D J-BOX W/ (3) 20 AMP CIRCUITS AND ISOLATED GROUND MOUNTED 1'-0" ABOVE OPEN CEILING GRID, FINAL LOCATION PER PIER 1.
- 22 J-BOX FOR SIGN. LOCATE INSIDE OF FASCIA. (1) 20 AMP CIRCUIT TO LIGHTING CONTROL PANEL. SEE SIGN INSTALLATION DETAIL THIS SHEET.
- 23 NOTE USED.
- 24 MOTION SENSOR PROVIDED BY LIGHTSTAT. MOUNT TO BOTTOM OF J-BOX @ 1'-0" ABV. CLG. GRID. SEE DETAIL 3/6A. THROUGH SIGN CONTACTOR.
- 25 NOT USED.
- 26 J-BOX FOR SHOPPERTRACK SYSTEM @ 13'-0" AFF ON WALL ABOVE ENTRY DOORS.
- 27 24 HOUR DUPLEX RECEPTACLE MOUNTED ON SIDE OF COLUMN AT 13'-0" AFF FOR FUTURE CLOSED CIRCUIT MONITOR BY PIER 1. CONTRACTOR TO LABEL CCTV OUTLET.
- 28 KEY SWITCH FOR OVERHEAD DOOR MOUNTED AT 4'-0" AFF.
- 29 DUPLEX OUTLET, UNSWITCHED ON CIRCUIT A-8. MOUNTED AT 1'-6" AFF.
- 30 NOT USED.
- 31 J-BOX WITH ISOLATED CIRCUIT FOR ELECTRIC HAND DRYER.
- 32 DUPLEX OUTLET MOUNTED HORIZONTAL AT 8'-0" O.C., 10'-4" AFF. IN WALL. VERIFY FINAL LOCATION WITH FIXTURE SUPPLIER.
- 33 DUPLEX OUTLET MOUNTED HORIZONTAL AT 8'-0" O.C., 12'-4" AFF. IN WALL. VERIFY FINAL LOCATION WITH FIXTURE INSTALLER.
- 34 DUPLEX OUTLET MOUNTED HORIZONTAL AT APPROX. 6'-10" AFF. J-BOXES TO BE MOUNTED IN MILLWORK WITH FINAL CONNECTION BY E.C. VERIFY FINAL LOCATION WITH FIXTURE INSTALLER.
- 35 J-BOX @ 4'-0" AFF FOR SPEAKER VOLUME CONTROL.
- 36 EXISTING CONDUIT STUB-UP FROM SERVICE ENTRANCE DISCONNECT. REFER TO DRAWING E100 FOR FURTHER INFORMATION.
- 37 EXISTING CONDUIT STUB-UP FROM EXTERIOR TELEPHONE PEDESTAL.
- 38 RECEPTACLES IN THIS LOCATION MAY BE STACKED AND SHALL NOT EXCEED 18" AFF. PROVIDE: VOICE PHONE LINE, RECEPTACLE W/ ISOLATED GROUND FOR COMPUTER, DATA TO CASH WRAP, DATA PHONE LINE, DEDICATED CIRCUIT RECEPTACLE, FAX LINE, RECEPTACLE FOR CCM, AND DUPLEX GENERAL PURPOSE OUTLET.
- 39 OUTLETS FOR VIDEO AND ELECTRICAL MOUNTED AT 8'-6" AFF.
- 40 3/4" CONDUITS W/ PULL STRINGS
- 41 MOUNT JUNCTION BOX ABOVE DOOR @ 11'-0" AFF.
- 42 EXISTING 600A SERVICE DISCONNECT FOR PIER 1
- 43 EXISTING UTILITY CT CABINET.

REFERENCE SPECIFICATIONS

REVISIONS

DATE NO. BY

**FERNISLER - ARCHITECTURE, LLC**

**ARCHITECTURE - MANAGEMENT - ENGINEERING**

521 EAST BEAVER AVE. STATE COLLEGE, PA 16801

PHONE (814) 234-6806 EMAIL: fll@fllarch.com

PRELIMINARY FIT OUT  
FOR PIER ONE IMPORTS

NOT FOR CONSTRUCTION

PROPOSED PIER ONE IMPORTS "FIT OUT"  
LOCATED IN TENANT SPACE #4

**TRADER JOE'S PLAZA**

C/O KEYSTONE REAL ESTATE GROUP, LP  
444 EAST COLLEGE AVENUE  
STATE COLLEGE, PA 16801

DATE DEC. 19, 2011

PROJ. NO. 1139

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ELECTRICAL  
POWER PLAN

**E302**

REVISION



## GENERAL NOTES

(THIS SHEET ONLY)

- A. EQUIPMENT WITH (E) NOTATION INDICATES EXISTING TO REMAIN.
- B. ALL CONSTRUCTION/INTERCONNECTION WITH UTILITY SERVICE TO COMPLY WITH WEST PENN POWER REQUIREMENTS.

## KEY NOTES

- 1 EXISTING WEST PENN POWER UTILITY TRANSFORMER.
- 2 EXISTING UTILITY METER
- 3 EXISTING CT CABINET.
- 4 EXISTING 600A, SERVICE-ENTRANCE-RATED, FUSED DISCONNECT SWITCH WITH 600A FUSES AND GROUNDING LUG.
- 5 EXISTING 2-3" EMPTY CONDUITS STUBBED INTO PIER ONE TENANT SPACE. CONTRACTOR TO UTILIZE.
- 6 EXISTING SERVICE GROUND, ISOLATED GROUND TO BE BONDED TO THIS LOCATION.
- 7 PANEL MDP: 120/208V, 600A MCB, 42LOC., 50,000 AIC, SURFACE MOUNT PANELBOARD.
- 8 PANEL A: 120/208V, 200A BUS, 150A MCB, 42LOC., 10,000 AIC, SURFACE MOUNT PANELBOARD.
- 9 PANEL B: 120/208V, 200A BUS, 125A MCB, 42LOC., 10,000 AIC, SURFACE MOUNT PANELBOARD.

## COPPER CONDUCTOR SCHEDULE

KEY	NO. SETS	CONDUCTORS (AWG-KCMIL)	°C	KEY	NO. SETS	CONDUCTORS (AWG-KCMIL)	°C	KEY	NO. SETS	CONDUCTORS (AWG-KCMIL)	°C
20.25		2#12, 1#25	3/4	20.35		3#12, 1#25	3/4	20.45		4#12, 1#25	3/4
30.25	1	2#10, 1#25	3/4	30.35	1	3#10, 1#25	3/4	30.45	1	4#10, 1#25	3/4
40.25	1	2#8, 1#25	3/4	40.35	1	3#8, 1#25	3/4	40.45	1	4#8, 1#25	3/4
50.25	1	2#6, 1#25	3/4	50.35	1	3#6, 1#25	3/4	50.45	1	4#6, 1#25	3/4
60.25	1	2#4, 1#25	1	60.35	1	3#4, 1#25	1	60.45	1	4#4, 1#25	1/4
70.25	1	2#4, 1#25	1	70.35	1	3#4, 1#25	1	70.45	1	4#4, 1#25	1/4
80.25	1	2#3, 1#25	1	80.35	1	3#3, 1#25	1/4	80.45	1	4#3, 1#25	1/4
90.25	1	2#2, 1#25	1	90.35	1	3#2, 1#25	1/4	90.45	1	4#2, 1#25	1/4
100.25	1	2#1, 1#25	1/4	100.35	1	3#1, 1#25	1/4	100.45	1	4#1, 1#25	1/2
110.25	1	2#1, 1#25	1/4	110.35	1	3#1, 1#25	1/4	110.45	1	4#1, 1#25	1/2
120.25	1	2#1, 1#25	1/4	120.35	1	3#1, 1#25	1/4	120.45	1	4#1, 1#25	1/2
130.25	1	2#1, 1#25	1/4	130.35	1	3#1, 1#25	1/4	130.45	1	4#1, 1#25	1/2
140.25	1	2#1, 1#25	1/4	140.35	1	3#1, 1#25	1/4	140.45	1	4#1, 1#25	1/2
150.25	1	2#1, 1#25	1/4	150.35	1	3#1, 1#25	1/4	150.45	1	4#1, 1#25	1/2
160.25	1	2#1, 1#25	1/4	160.35	1	3#1, 1#25	1/4	160.45	1	4#1, 1#25	1/2
170.25	1	2#1, 1#25	1/4	170.35	1	3#1, 1#25	1/4	170.45	1	4#1, 1#25	1/2
180.25	1	2#1, 1#25	1/4	180.35	1	3#1, 1#25	1/4	180.45	1	4#1, 1#25	1/2
190.25	1	2#1, 1#25	1/4	190.35	1	3#1, 1#25	1/4	190.45	1	4#1, 1#25	1/2
200.25	1	2#1, 1#25	1/4	200.35	1	3#1, 1#25	1/4	200.45	1	4#1, 1#25	1/2
210.25	1	2#1, 1#25	1/4	210.35	1	3#1, 1#25	1/4	210.45	1	4#1, 1#25	1/2
220.25	1	2#1, 1#25	1/4	220.35	1	3#1, 1#25	1/4	220.45	1	4#1, 1#25	1/2
230.25	1	2#1, 1#25	1/4	230.35	1	3#1, 1#25	1/4	230.45	1	4#1, 1#25	1/2
240.25	1	2#1, 1#25	1/4	240.35	1	3#1, 1#25	1/4	240.45	1	4#1, 1#25	1/2
250.25	1	2#1, 1#25	1/4	250.35	1	3#1, 1#25	1/4	250.45	1	4#1, 1#25	1/2
260.25	1	2#1, 1#25	1/4	260.35	1	3#1, 1#25	1/4	260.45	1	4#1, 1#25	1/2
270.25	1	2#1, 1#25	1/4	270.35	1	3#1, 1#25	1/4	270.45	1	4#1, 1#25	1/2
280.25	1	2#1, 1#25	1/4	280.35	1	3#1, 1#25	1/4	280.45	1	4#1, 1#25	1/2
290.25	1	2#1, 1#25	1/4	290.35	1	3#1, 1#25	1/4	290.45	1	4#1, 1#25	1/2
300.25	1	2#1, 1#25	1/4	300.35	1	3#1, 1#25	1/4	300.45	1	4#1, 1#25	1/2
310.25	1	2#1, 1#25	1/4	310.35	1	3#1, 1#25	1/4	310.45	1	4#1, 1#25	1/2
320.25	1	2#1, 1#25	1/4	320.35	1	3#1, 1#25	1/4	320.45	1	4#1, 1#25	1/2
330.25	1	2#1, 1#25	1/4	330.35	1	3#1, 1#25	1/4	330.45	1	4#1, 1#25	1/2
340.25	1	2#1, 1#25	1/4	340.35	1	3#1, 1#25	1/4	340.45	1	4#1, 1#25	1/2
350.25	1	2#1, 1#25	1/4	350.35	1	3#1, 1#25	1/4	350.45	1	4#1, 1#25	1/2
360.25	1	2#1, 1#25	1/4	360.35	1	3#1, 1#25	1/4	360.45	1	4#1, 1#25	1/2
370.25	1	2#1, 1#25	1/4	370.35	1	3#1, 1#25	1/4	370.45	1	4#1, 1#25	1/2
380.25	1	2#1, 1#25	1/4	380.35	1	3#1, 1#25	1/4	380.45	1	4#1, 1#25	1/2
390.25	1	2#1, 1#25	1/4	390.35	1	3#1, 1#25	1/4	390.45	1	4#1, 1#25	1/2
400.25	1	2#1, 1#25	1/4	400.35	1	3#1, 1#25	1/4	400.45	1	4#1, 1#25	1/2
410.25	1	2#1, 1#25	1/4	410.35	1	3#1, 1#25	1/4	410.45	1	4#1, 1#25	1/2
420.25	1	2#1, 1#25	1/4	420.35	1	3#1, 1#25	1/4	420.45	1	4#1, 1#25	1/2
430.25	1	2#1, 1#25	1/4	430.35	1	3#1, 1#25	1/4	430.45	1	4#1, 1#25	1/2
440.25	1	2#1, 1#25	1/4	440.35	1	3#1, 1#25	1/4	440.45	1	4#1, 1#25	1/2
450.25	1	2#1, 1#25	1/4	450.35	1	3#1, 1#25	1/4	450.45	1	4#1, 1#25	1/2
460.25	1	2#1, 1#25	1/4	460.35	1	3#1, 1#25	1/4	460.45	1	4#1, 1#25	1/2
470.25	1	2#1, 1#25	1/4	470.35	1	3#1, 1#25	1/4	470.45	1	4#1, 1#25	1/2
480.25	1	2#1, 1#25	1/4	480.35	1	3#1, 1#25	1/4	480.45	1	4#1, 1#25	1/2
490.25	1	2#1, 1#25	1/4	490.35	1	3#1, 1#25	1/4	490.45	1	4#1, 1#25	1/2
500.25	1	2#1, 1#25	1/4	500.35	1	3#1, 1#25	1/4	500.45	1	4#1, 1#25	1/2
510.25	1	2#1, 1#25	1/4	510.35	1	3#1, 1#25	1/4	510.45	1	4#1, 1#25	1/2
520.25	1	2#1, 1#25	1/4	520.35	1	3#1, 1#25	1/4	520.45	1	4#1, 1#25	1/2
530.25	1	2#1, 1#25	1/4	530.35	1	3#1, 1#25	1/4	530.45	1	4#1, 1#25	1/2
540.25	1	2#1, 1#25	1/4	540.35	1	3#1, 1#25	1/4	540.45	1	4#1, 1#25	1/2
550.25	1	2#1, 1#25	1/4	550.35	1	3#1, 1#25	1/4	550.45	1	4#1, 1#25	1/2
560.25	1	2#1, 1#25	1/4	560.35	1	3#1, 1#25	1/4	560.45	1	4#1, 1#25	1/2
570.25	1	2#1, 1#25	1/4	570.35	1	3#1, 1#25	1/4	570.45	1	4#1, 1#25	1/2
580.25	1	2#1, 1#25	1/4	580.35	1	3#1, 1#25	1/4	580.45	1	4#1, 1#25	1/2
590.25	1	2#1, 1#25	1/4	590.35	1	3#1, 1#25	1/4	590.45	1	4#1, 1#25	1/2
600.25	1	2#1, 1#25	1/4	600.35	1	3#1, 1#25	1/4	600.45	1	4#1, 1#25	1/2
610.25	1	2#1, 1#25	1/4	610.35	1	3#1, 1#25	1/4	610.45	1	4#1, 1#25	1/2
620.25	1	2#1, 1#25	1/4	620.35	1	3#1, 1#25	1/4	620.45	1	4#1, 1#25	1/2
630.25	1	2#1, 1#25	1/4	630.35	1	3#1, 1#25	1/4	630.45	1	4#1, 1#25	1/2
640.25	1	2#1, 1#25	1/4	640.35	1	3#1, 1#25	1/4	640.45	1	4#1, 1#25	1/2
650.25	1	2#1, 1#25	1/4	650.35	1	3#1, 1#25	1/4	650.45	1	4#1, 1#25	1/2
660.25	1	2#1, 1#25	1/4	660.35	1	3#1, 1#25	1/4	660.45	1	4#1, 1#25	1/2
670.25	1	2#1, 1#25	1/4	670.35	1	3#1, 1#25	1/4	670.45	1	4#1, 1#25	1/2
680.25	1	2#1, 1#25	1/4	680.35	1	3#1, 1#25	1/4	680.45	1	4#1, 1#25	1/2
690.25	1	2#1, 1#25	1/4	690.35	1	3#1, 1#25	1/4	690.45	1	4#1, 1#25	1/2
700.25	1	2#1, 1#25	1/4	700.35	1	3#1, 1#25	1/4	700.45	1	4#1, 1#25	1/2
710.25	1	2#1, 1#25	1/4	710.35	1	3#1, 1#25	1/4	710.45	1	4#1, 1#25	1/2
720.25	1	2#1, 1#25	1/4	720.35	1	3#1, 1#25	1/4	720.45	1	4#1, 1#25	1/2
730.25	1	2#1, 1#25	1/4	730.35	1	3#1, 1#25	1/4	730.45	1	4#1, 1#25	1/2
740.25	1	2#1, 1#25	1/4	740.35	1	3#1, 1#25	1/4	740.45	1	4#1, 1#25	1/2
750.25	1	2#1, 1#25	1/4	750.35	1	3#1, 1#25	1/4	750.45	1	4#1, 1#25	1/2
760.25	1	2#1, 1#25	1/4	760.35	1	3#1, 1#25	1/4	760.45	1	4#1, 1#25	1/2
770.25	1	2#1, 1#25	1/4	770.35	1	3#1, 1#25	1/4	770.45	1	4#1, 1#25	1/2
780.25	1	2#1, 1#25	1/4	780.35	1	3#1, 1#25	1/4	780.45	1	4#1, 1#25	1/2
790.25	1	2#1, 1#25	1/4	790.35	1	3#1, 1#25	1/4	790.45	1	4#1, 1#25	1/2
800.25	1	2#1, 1#25	1/4	800.35	1	3#1, 1#25	1/4	800.45	1	4#1, 1#25	1/2
810.25	1	2#1, 1#25	1/4	810.35	1	3#1, 1#25	1/4	810.45	1	4#1, 1#25	1/2
820.25	1	2#1, 1#25	1/4	820.35	1	3#1, 1#25	1/4	820.45	1	4#1, 1#25	1/2
830.25	1	2#1, 1#25	1/4	830.35	1	3#1, 1#25	1/4	830.45	1	4#1, 1#25	1/2
840.25	1	2#1, 1#25	1/4	840.35	1	3#1, 1#25	1/4	840.45	1	4#1, 1#25	1/2
850.25	1	2#1, 1#25	1/4	850.35	1	3#1, 1#25	1/4	850.45	1	4#1, 1#25	1/2
860.25	1	2#1, 1#25	1/4	860.35	1	3#1, 1#25	1/4	860.45	1	4#1, 1#25	1/2
870.25	1	2#1, 1#25	1/4	870.35	1	3#1, 1#25	1/4	870.45	1	4#1, 1#25	1/2
880.25	1	2#1, 1#25	1/4	880.35	1	3#1, 1#25	1/4	880.45	1	4#1, 1#25	1/2
890.25	1	2#1, 1#25	1/4	890.35	1	3#1, 1#25	1/4	890.45	1	4#1, 1#25	1/2
900.25	1	2#1, 1#25	1/4	900.35	1	3#1, 1#25	1/4	900.45	1	4#1, 1#25	1/2
910.25	1	2#1, 1#25	1/4	910.35	1	3#1, 1#25	1/4	910.45	1	4#1, 1#25	1/2
920.25	1	2#1, 1#25	1/4	920.35	1	3#1, 1#25	1/4	920.45	1	4#1, 1#25	1/2
930.25	1	2#1, 1#25	1/4	930.35	1	3#1, 1#25	1/4	930.45	1	4#1, 1#25	1/2
940.25	1	2#1, 1#25	1/4	940.35	1	3#1, 1#25	1/4	940.45	1	4#1, 1#25	1/2
950.25	1	2#1, 1#25	1/4	950.35	1	3#1, 1#25	1/4	950.45	1	4#1, 1#25	1/2
960.25	1	2#1, 1#25	1/4	960.35	1	3#1, 1#25	1/4	960.45	1	4#1, 1#25	1/2
970.25	1	2#1, 1#25	1/4	970.35	1	3#1, 1#25	1/4	970.45	1	4#1, 1#25	1/2
980.25	1	2#1, 1#25	1/4	980.35	1	3#1, 1#25	1/4	980.45	1	4#1, 1#25	1/2