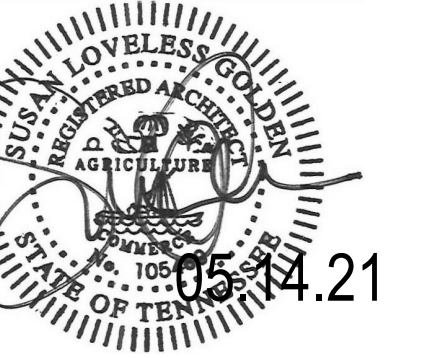




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1364 N WATKINS - PACKAGE 1 RENOVATIONS

1364 N WATKINS, MEMPHIS, TN 38108
COMMISSION NO. 2020698

CONSTRUCTION DOCUMENTS

ISSUE DATE: 05.14.21

ABBREVIATIONS

A ACC ADJ ADH AFF AND ALUM ANOD APPROX ARCH AUTO AWC	ACCESSORIES ACOUSTICAL CEILING TILE ADHESIVE ADJUSTABLE ABOVE FINISHED FLOOR ALTERNATE ALUMINUM ANODIZED APPROXIMATE ARCHITECT (ARCHITECTURAL) AUTOMATIC ACOUSTICAL WALL COVERING	F FA FD FEC FEL FHMS FHW FR FRGB FSTNR FT FTG FURR FVC	FIRE ALARM FLOOR DRAIN FIRE EXTINGUISHER CABINET FINISH FLOOR LINE FLAT HEAD METAL SCREW FLOORING FLOORING (RECT) FIREPROOFING FLOOR RECEPTOR FIBER-REINFORCED GYPSUM WALL BOARD FASTENER FOOT (FEET) FOOTING FURRING FABRIC WALL COVERING	M M MAINT MATL. MAX MBD MECH MED MFR MH MIN MISC MLDG MLL MM MTD MTL MUL MUK MW MXX	METER MAINTENANCE MATERIAL MAXIMUM MARKER BOARD MECHANICAL MEDIUM MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS MOLDING MILLIMETER MASONRY OPENING MOUNTED METAL RETURN REVISION RIGHT HAND RAIN LEADER ROOM ROUGH OPENING RUBBER RISERS RETURN AIR RADIUS REFLECTED CEILING PLAN ROOF DRAIN RECESSED RECEPTACLE RECTANGULAR RECEIVING REFLECTOR REFRIGERATOR REINFORCING RELIEF REMOVABLE REQUIRED RESISTANT RETURN REVISION RIGHT HAND RAIN LEADER ROOM ROUGH OPENING RUBBER	R R RA RAD RCP RD REC RECEPT RECT REF REF REF REINFORCING REL REM REMO REQD RES RET REV RH RL RM RO RUB S S DISP SCHED SCHN SD SD SECT SERV SF SGFT SGL SH SHLF SHLVG SHT SHT V SHWR SIM SN DISP SN RECEPT SPC SPEAKER SQ SS SSM STA STC STG STD STG STL STOR STROCT SUSP SW SYS T T TEL TERR TJ TKH THK THRESH TK BD TAGBOARD TOP OF CONCRETE TOC TOC TOP OF CURB TOP OF FOOTING TOILET TILT TOM TOS TOW TP TP DISP TV TYP	TREAD TELEPHONE TERRAZZO TONGUE AND GROOVE THICK THRESH TAGBOARD TOP OF CONCRETE TOP OF CURB TOP OF FOOTING TOILET TOP OF MASONRY TOP OF STEEL TOP OF WALL TOILET PARTITION TOILET PAPER DISPENSER TELEVISION TYPICAL	U UG UC UNO UNF UNLESS NOTED OTHERWISE UTIL V VAPOR BARRIER VINYL BONDED WOOD FLOORING VCT VERT VHR VIF VOL VINYL TILE VIEW WINDOW VINYL WALL COVERING W WEST WORKING POINT WITH WHEELCHAIR WITHOUT WARDROBE WOOD WALL HUNG WB WBCT WV WOM WP WS WSCT WWF Z ZVA	UNDERCOUNTER UNDERGROUND UNFINISHED UNLESS NOTED OTHERWISE UTILITY VAPOR BARRIER VINYL BONDED WOOD FLOORING VCT VERTICAL VINYL HAND RAIL VERIFY IN FIELD VOLUME VINYL TILE VIEW WINDOW VINYL WALL COVERING W WEST WORKING POINT WITH WHEELCHAIR WITHOUT WARDROBE WOOD WALL HUNG WB WBCT WV WOM WP WS WSCT WWF Z ZONE VALVE ALARM
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DRAWING INDEX - PACKAGE 1 - RENOVATIONS

GENERAL	G100 COVER	M121 N. WATKINS OFFICE MECHANICAL FLOOR PLAN AND RCP
G101 DRAWING INDEX, ABBR, GEN. NOTES, LIFE SAFETY PLAN & CODE SEARCH	M502 SPECIFICATIONS - MECHANICAL	
CIVIL	C1.0 EXISTING CONDITIONS AND DEMOLITION PLAN	
C2.0 SITE LAYOUT PLAN		
C3.0 GRADING & DRAINAGE PLAN		
C4.0 PAVING & STRIPING PLAN		
C5.0 SITE FENCING PLAN		
ARCHITECTURAL	A120 N. WATKINS OFFICE FLOOR PLAN, RCP AND ELEVATION	
A170 DOOR SCHEDULE, PARTITION TYPES AND DETAILS		
A180 CASEWORK DETAILS		
INTERIOR	ID001 INTERIOR FINISH INDEX, SCHEDULE & PLAN	
MECHANICAL		

GENERAL NOTES

- ERECT DUSTPROOF PROTECTION BARRIERS BETWEEN AREAS WHERE WORK IS BEING PERFORMED AND AREAS BEING USED BY THE FACILITY
- AT ALL TIMES DURING CONSTRUCTION AND/OR ALTERATIONS THE ADJACENT AREAS MAY BE OCCUPIED. THE WORK SHALL BE DONE AND SUCH TEMPORARY FACILITIES PROVIDED BY THE PRIME CONTRACTOR SO AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH DAILY OPERATION OF THE FACILITY OR AN ESSENTIAL SERVICE THEREOF
- AT ALL TIMES DURING CONSTRUCTION AND/OR ALTERATIONS ALL REQUIRED EXIT AND ESCAPE FACILITIES SHALL BE CONTINUOUSLY MAINTAINED. IN THE EVENT ANY REQUIRED EXIT MUST BE CLOSED OR TEMPORARILY ABANDONED, PROVIDE OTHER MEASURES AND/OR MEANS WHICH WILL PROVIDE EQUIVALENT SAFETY.
- DESIGNATED AREAS OF NEW CONNECTIONS AND/OR ALTERATIONS SHALL BE CLEAN AND FREE OF ANY DEBRIS AT THE END OF EACH DAY. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF DEMOLISHED MATERIALS FROM THE OWNER'S PROPERTY.
- DESIGNATED AREAS OF THE EXISTING STRUCTURE WHERE WORK IS TO BE DONE, CONNECTIONS MADE, MATERIALS HANDLED, OR EQUIPMENT MOVED AND/OR RELOCATED, SHALL BE PROPERLY ISOLATED FROM THE INTERIOR OF OTHER FUNCTION AREAS OF EXISTING STRUCTURE WILL, AT ALL TIMES, BE PROTECTED FROM DUST, WEATHER, INDEMNITY AND SO FAR AS POSSIBLE, FROM CONSTRUCTION TRAFFIC. FOR ALL NEW ELECTRICAL, MECHANICAL, AND/OR PLUMBING WORK.
- PENETRATING THE FLOOR(S) ABOVE OR BELOW, THE EXISTING CEILING TILES SHALL BE REMOVED AND REINSTALLED. TILES DAMAGED BY THIS PROCESS SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. REPLACEMENT TILES SHALL MATCH EXISTING. ALL SURFACES (WALLS, FLOORS, CASEWORK, ETC.) SHALL BE LEFT IN AS GOOD CONDITION AS EXISTED PRIOR TO THE START OF WORK. COORDINATE ALL WORK ON FLOORS ABOVE AND BELOW WITH THE OWNER. REMOVE ALL ITEMS SHOWN DASHED ON DEMOLITION PLAN. ALL BUILDING COMPONENTS IN EXISTING BUILDING AND DISTURBED BY THIS WORK SHALL BE RESTORED AND REFINISHED ACCORDING TO THE ROOM FINISH SCHEDULE OR TO MATCH EXISTING. ALL OPENINGS IN WALLS AND SLABS REMAINING AFTER DEMOLITION WORK HAS BEEN COMPLETED SHALL BE FILLED WITH CONSTRUCTION IDENTICAL TO ADJOINING SURFACES. ALL WALLS TO REMAIN SHALL BE PATCHED AS REQUIRED TO RECEIVE NEW FINISH.
- PATCH AND MATCH (PM) INDICATES THAT EXISTING FINISH SHALL BE REPAIRED TO MATCH ADJACENT FINISH.
- WHERE EXISTING CONSTRUCTION IS INDICATED TO BE REPLACED, IT IS THE INTENT TO REMOVE THE EXISTING CONSTRUCTION IN ITS ENTIRETY AND REPLACE IT WITH NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS.
- IN EXISTING AREAS WHERE NEW CEILINGS ARE INDICATED, EXISTING CEILINGS SHALL BE REMOVED. ELECTRICAL FIXTURES, HVAC REGISTERS, CURTAIN TRACKS, ETC. SHALL BE REMOVED, REPLACED OR RELOCATED AS REQUIRED BY THE CONTRACT DOCUMENTS AND TO SUIT NEW CEILING HEIGHTS.
- ALL EXISTING MECHANICAL, ELECTRICAL WORK IN EXISTING PARTITIONS, FLOOR, OR CEILINGS THAT INTERFERE WITH THE WORK SHALL BE RELOCATED, ADJUSTED OR REPLACED TO SUIT NEW CONDITIONS.
- WHERE ALTERATIONS OCCUR OR NEW AND OLD WORK JOIN OR MECH. AND ELEC. CONNECTIONS ARE SHOWN IN EXISTING CEILINGS OR WALLS THE IMMEDIATE ADJACENT SURFACES SHALL BE CUT, REMOVED, PATCHED, REPAIRED OR REFINISHED AND LEFT IN AS GOOD CONDITION AS EXISTED PRIOR TO THE START OF WORK.
- SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATIONS OF NEW PENETRATIONS THROUGH EXISTING WALLS AND SLABS.
- ALL DUCTS PENETRATING FLOOR SLABS SHALL BE ENCLOSED WITH TWO HOUR WALL PARTITIONS AND/OR PROVIDED WITH FIRE DAMPERS. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
- WHERE PIPES, DUCTS AND PANEL BOXES OCCUR, PARTITIONS SHALL BE OF SUCH THICKNESS TO ACCOMMODATE PIPES AND DUCTS, SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS.
- ALL PIPES, DUCTS, ETC. IN FINISHED AREAS SHALL BE FURRED IN UNLESS NOTED OTHERWISE.
- RATED PARTITIONS SHALL BE CONTINUOUS ABOVE THE CEILING SO AS TO PROVIDE A POSITIVE SMOKE AND/OR FIRE BARRIER. BOTH SIDES OF THE STUD PARTITIONS ABOVE THE CEILING SHALL BE FINISHED EXCEPT FOR DECORATIVE FINISHES.
- MAINTAIN WALL FIRE RESISTIVE RATING WHERE ITEMS SUCH AS FIRE EXTINGUISHER CABINETS, ELECTRICAL PANEL BOXES, ETC. ARE BUILT INTO WALLS.
- ALL GYPSUM WALLBOARD ON CONCRETE OR MASONRY WALLS SHALL BE FURRED OUT A MINIMUM OF 8".
- ALL ABANDONED HVAC, PLUMBING AND ELECTRICAL SERVICES AND THE ASSOCIATED SUPPORT HANGER SYSTEMS SHALL BE REMOVED IN THEIR ENTIRETY.

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CONSULTANTS

SSR Smith Seckman Reid, Inc.

LIFE SAFETY LEGEND:

- 1 HR FIRE RATED PARTITION
- 2 HR FIRE RATED PARTITION
- 1 HR FIRE/SMOKE RATED PARTITION
- 2 HR FIRE/SMOKE RATED PARTITION
- EGRESS ROUTE
- LEVEL
- TRAVEL DISTANCES
- EX FEC EXISTING FIRE EXTINGUISHER CABINET
- EMERGENCY EXIT SIGNS - SEE ELECTRICAL DRAWINGS
- FIRE EXTINGUISHER

KEY SITE PLAN - N. WATKINS OFFICE

SCALE: 6" = 1'-0"

1364 N. WATKINS LIFE SAFETY PLAN

SCALE: 3/32" = 1'-0"

CODE SEARCH:

- Project:** MATA - PACKAGE 1 RENOVATIONS
- Project Number:** 202098
- Location & Address:** 1364 N. Watkins St. Memphis, TN, 38108
- Owner Contacts:** Doug Cunningham
- Code Review By:** Amber Fournier
- Date of Review:** April 6, 2021
- Code Authority:** Building Department: Memphis and Shelby County Office of Construction Code Enforcement, 6465 Mullins Station Road Memphis, TN 38134 901.222.8300
- Building Codes in Force:**
 - Memphis, TN:
 - Architectural: 2015 International Building Code with Local Amendments
 - 2015 International Existing Building Code with Local Amendments
 - Handicap: 2009 ANSI 117.1 with Chapter 11 of 2009 IBC
 - Structural: 2015 International Building Code with Local Amendments
 - Mechanical: 2015 International Mechanical Code with Local Amendments
 - 2015 International Fuel Gas Code with Local Amendments
 - Plumbing: 2015 International Plumbing Code with Local Amendments
 - Electrical: 2014 National Electric Code with 2018 Joint Electrical Code
 - 2015 International Energy Conservation Code with Local Amendments

- Fire Protection Systems:**
 - Portable Fire Extinguisher (IFC 906, NFPA 10):
 - 1) Travel Distance - 75 feet (NFPA 10)
 - 2) Minimum Rating: 2-A
- Means of Egress Requirements:**
 - a. Building Construction Data:
 - 1) Ground Floor SF/B Occupancy: 2,318 sf
 - Renovation area: 2,318 sf
 - 2) Ground Floor SF S-1 Occupancy: 3,497 sf (NOT IN SCOPE)
 - Renovation area: 0 sf
 - b. Occupant Load (IBC Table 1004.1.2)
 - 1) Ground Floor Area/Occupant: 2,318/100=24 occupants (1 Exit required, IBC 1006.2.1)
 - c. Travel Distance (IBC Table 1017.2):
 - 1) From furthest point to exit: 200 ft. non-sprinklered
 - d. Maximum Common Path of Egress Travel (IBC 1006.2.1): 100 ft
 - e. Exit access corridors fire rating (IBC 1020.1): 0 hour without sprinkler, less than 30 occupants
 - f. Minimum corridor width (IBC 1020.2): 36 inches
 - g. Minimum width of exit doors (IBC 1010.1.1): 32 inches clear
 - h. Minimum ceiling height (IBC 1003.2.1.208.2):
 - 1) 7' 6 inches in occupied spaces
 - 2) Exception, 7 feet in bathrooms, toilet rooms, kitchens, storage rooms and laundry rooms.
 - i. Exit capacity (IBC 1005.3.1, 1005.3.2):
 - 1) Corridors: 0.2 inches per occupant no sprinklers x 24 occupants = 4.8"
- Doors**
 - a. Fire Ratings (IBC 716.5):
 - 1) Fire Barriers:
 - a) 4 hour --- 3 hour door
 - b) 3 hour --- 3 hour door
 - c) 2 hour --- 1 1/2 hour door
 - d) 1 1/2 hour --- 1 1/2 hour door
 - e) 1 hour --- 1 hour at shafts, exit enclosures and exit passageways.
 - 2) Fire Partitions:
 - a) 1 hour corridor walls --- 1/3 hour door
 - b) Other fire partitions --- 1/2 hour door
 - b. Minimum width of exit doors
 - 1) (IBC 1010.1.1): 32 inches
- Required Toilet Fixtures (IBC Table 2902.1):**
 - a. Water closets: 1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50 = 2
 - b. Lavatories: 1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80 = 2
 - c. Drinking fountains: 1 per 100 = 1
- Interior finishes - Wall and Ceiling (IBC 903.1.1):**
 - 1) Vertical Exits & Horizontal Passageways: IBC Class A
 - 2) Exit Access Corridors & Other Exitways: Class B
 - 3) Rooms & Enclosed Spaces: Class C
 - 4) Interior Trim: Meet Class C; Max. area: 10% of wall

MARK DATE DESCRIPTION

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MATA HEADQUARTERS
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MEMPHIS, TN, 38108

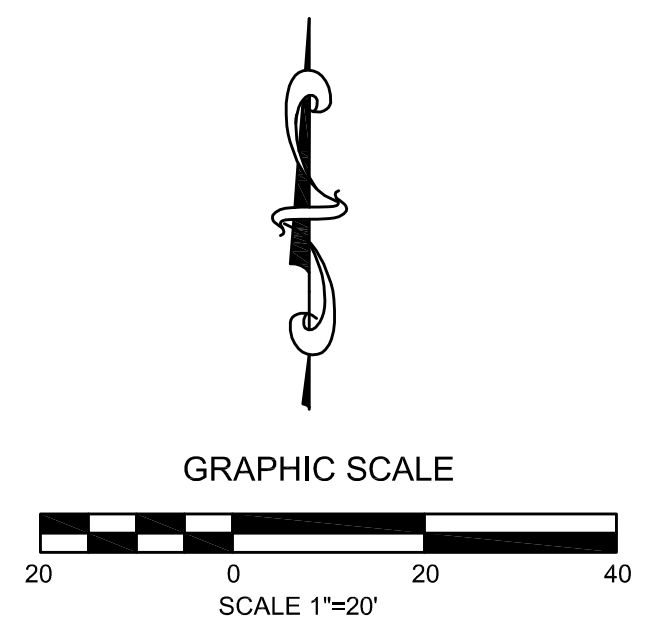
PROJECT NAME
1364 N WATKINS PACKAGE 1 - RENOVATIONS

Project No. 202098
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DRAWING TITLE
DRAWING INDEX, ABBR, GEN. NOTES, LIFE SAFETY PLAN & CODE SEARCH

SEALS

SHEET ID
CONSTRUCTION DOCUMENTS
G101



LEGEND

	EXIST. GRAVEL TO BE REMOVED & UNDERCUT (AS REQ'D)
	EXIST. ASPHALT TO BE MILLED (TOP 1-1/2")
	EXIST. ASPHALT TO BE SAWCUT FULL DEPTH & REMOVED
	EXIST. VEGETATION TO BE CLEARED & GRUBBED

MARK DATE DESCRIPTION

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 MATA HEADQUARTERS
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 MEMPHIS, TN. 38108

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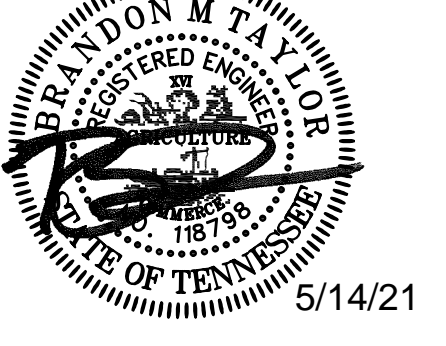
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 PACKAGE 1 -
 RENOVATIONS**

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**EXISTING CONDITIONS
 & DEMOLITION PLAN**

SEALS



SHEET ID

CONSTRUCTION DOCUMENTS

C1.0

UTILITY NOTE: LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION LIMITS. CALL 1-800-351-1111 FOR UTILITY LOCATIONS. CALL 636-0237 FOR SEWER LOCATIONS.

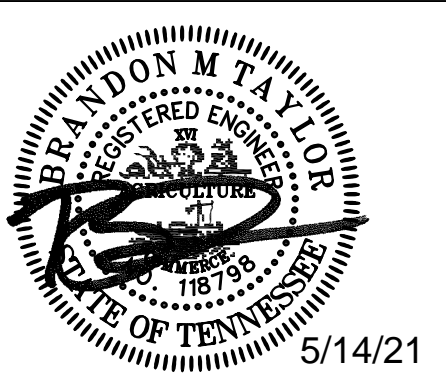
MARK	DATE	DESCRIPTION
REVISIONS		
CLIENT		

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 MEMPHIS AREA TRANSIT AUTHORITY
 MATA HEADQUARTERS
 1370 LEVEE RD,
 MEMPHIS, TN. 38108

PROJECT NAME:
**1364 N WATKINS
 PACKAGE 1 -
 RENOVATIONS**

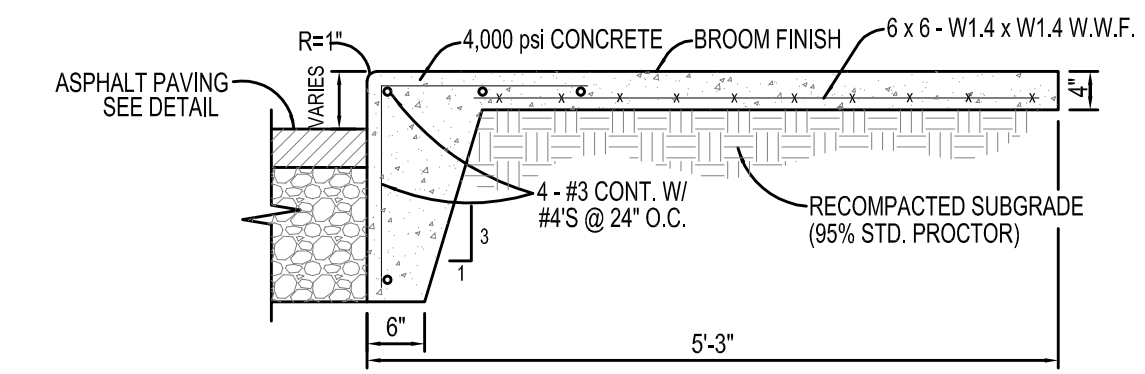
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DRAWING TITLE:
**SITE LAYOUT
 PLAN**

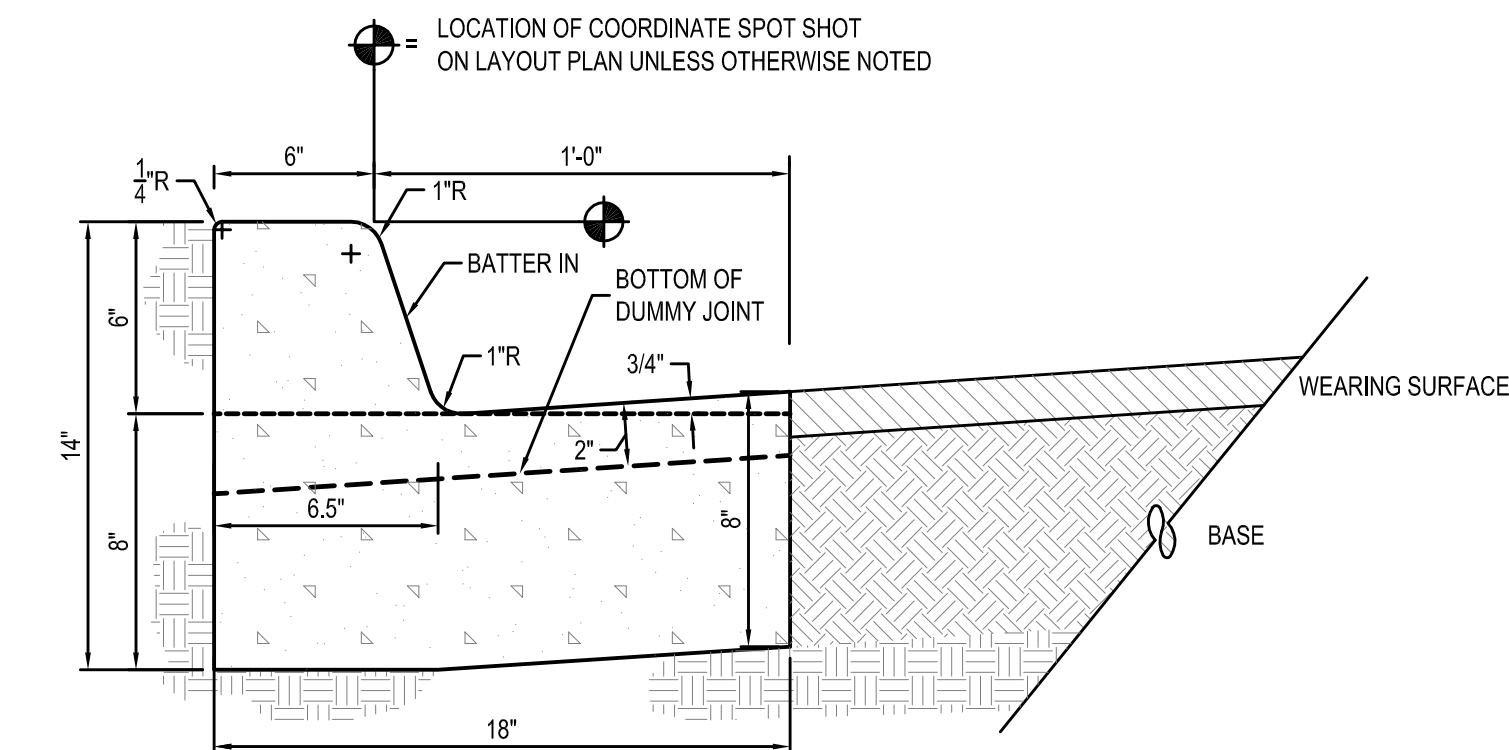


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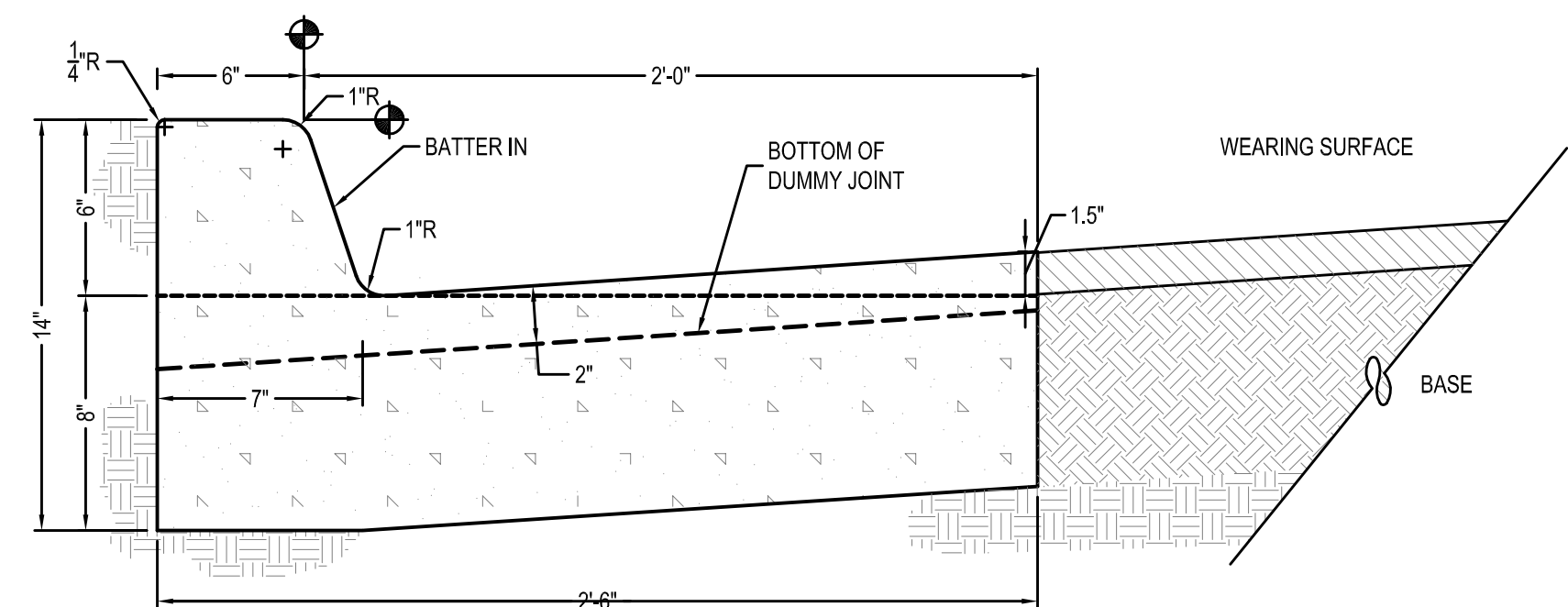
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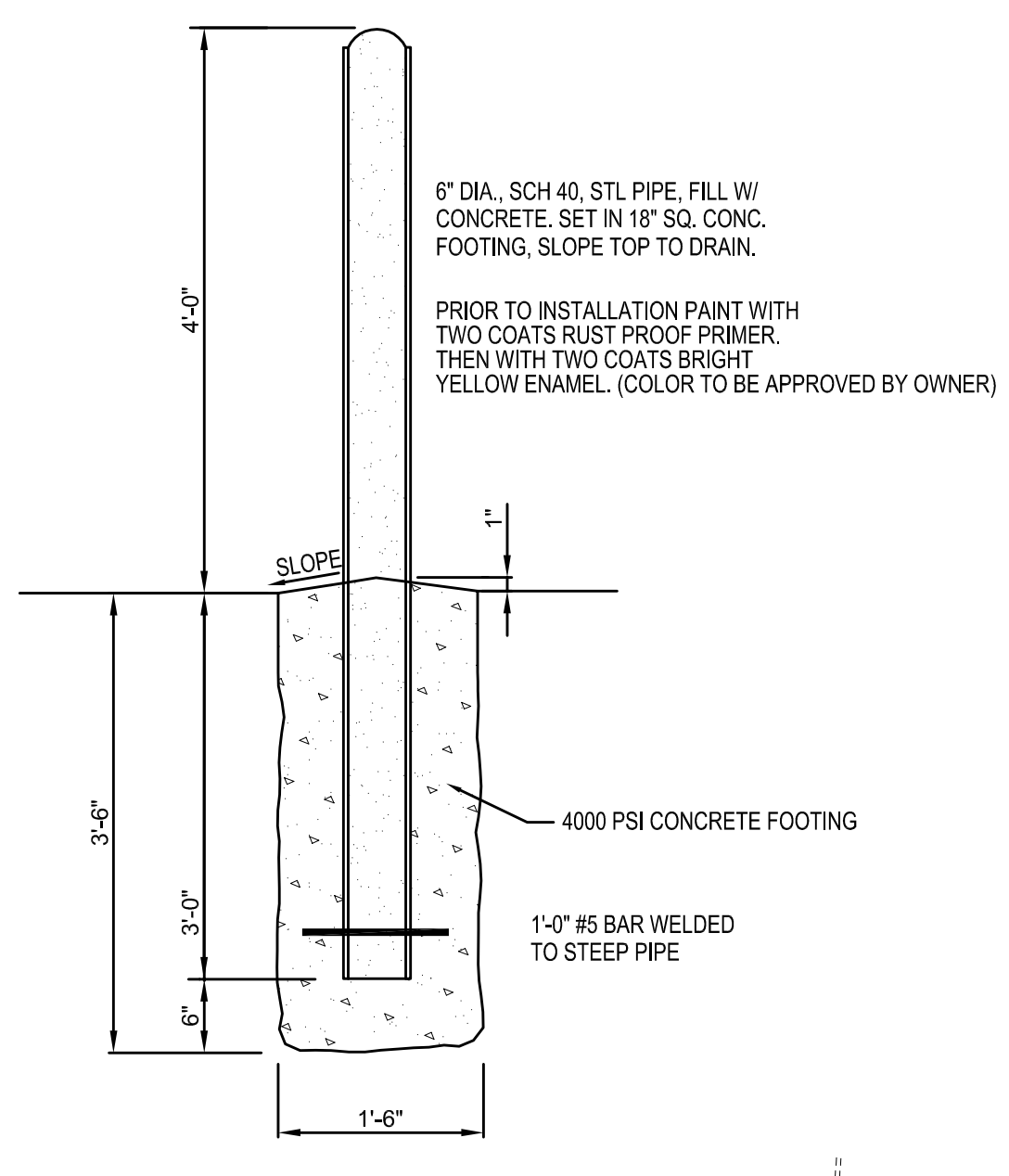
TYPICAL SIDEWALK TURNDOWN
 NOT TO SCALE



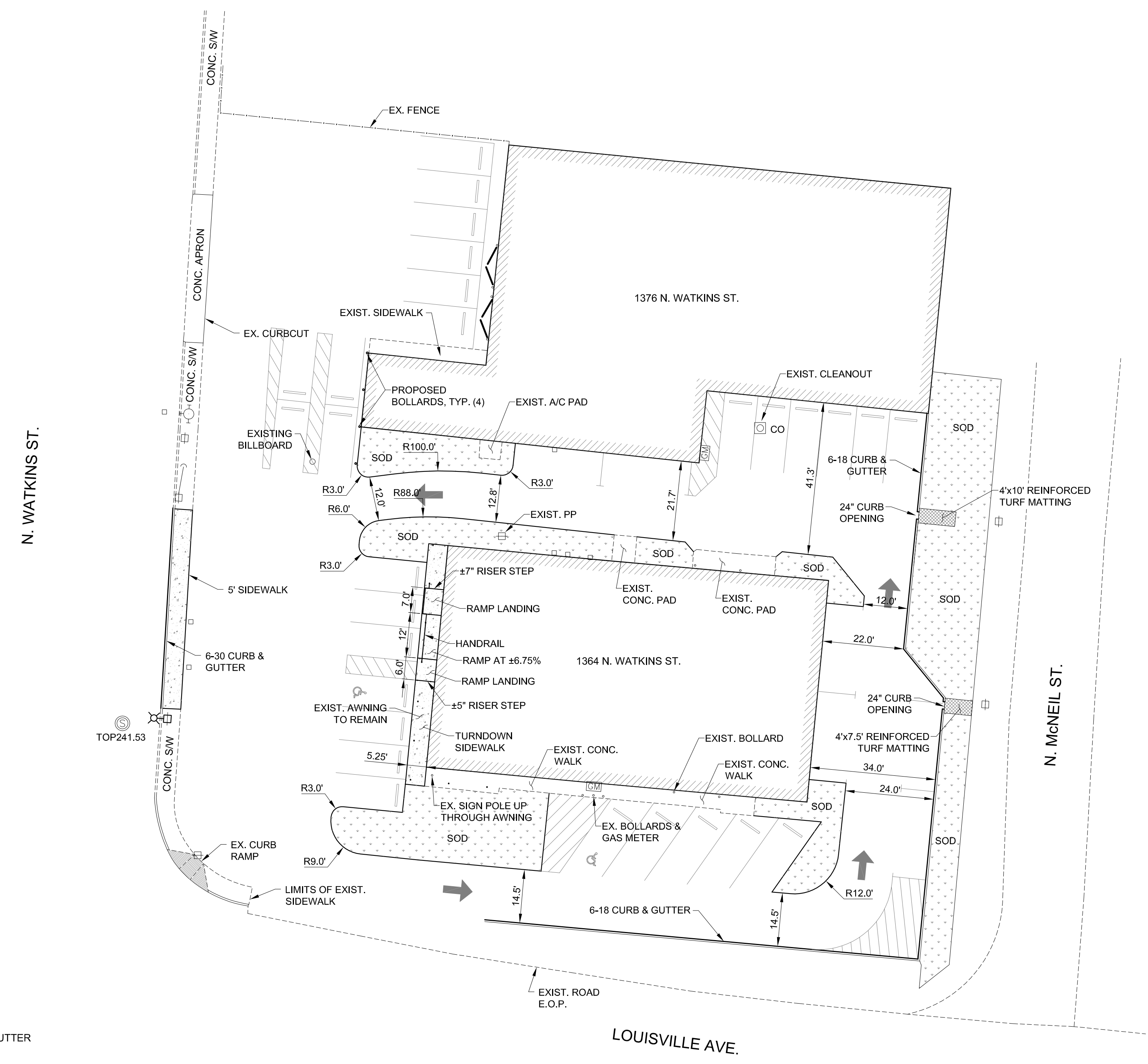
6-18 CURB & GUTTER
 NOT TO SCALE



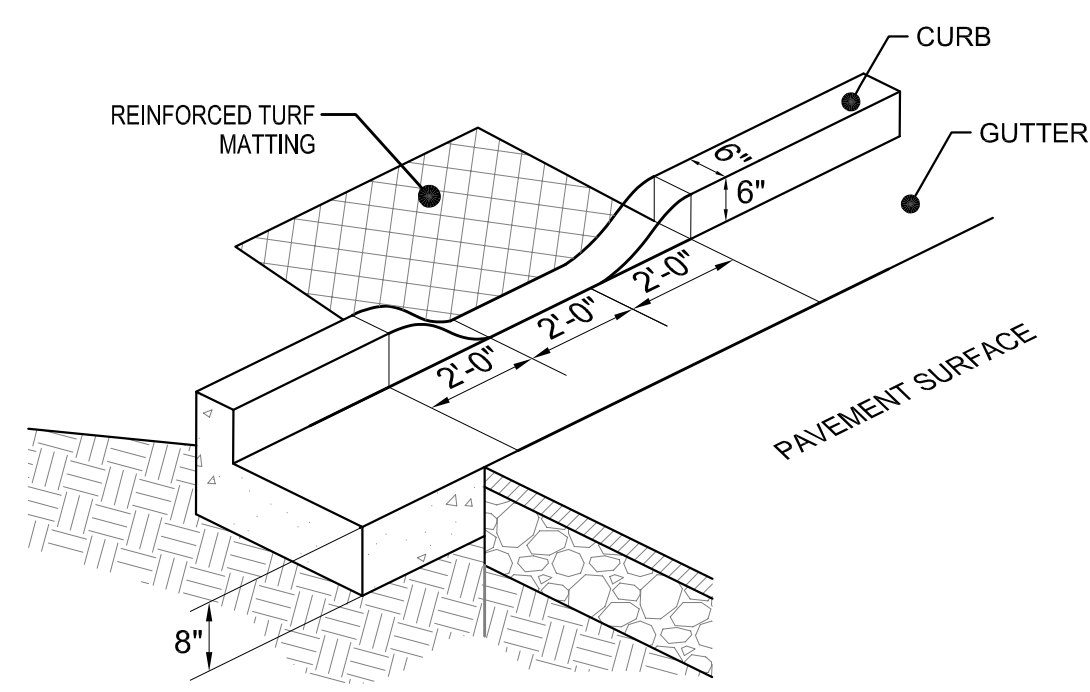
6-30 CURB & GUTTER
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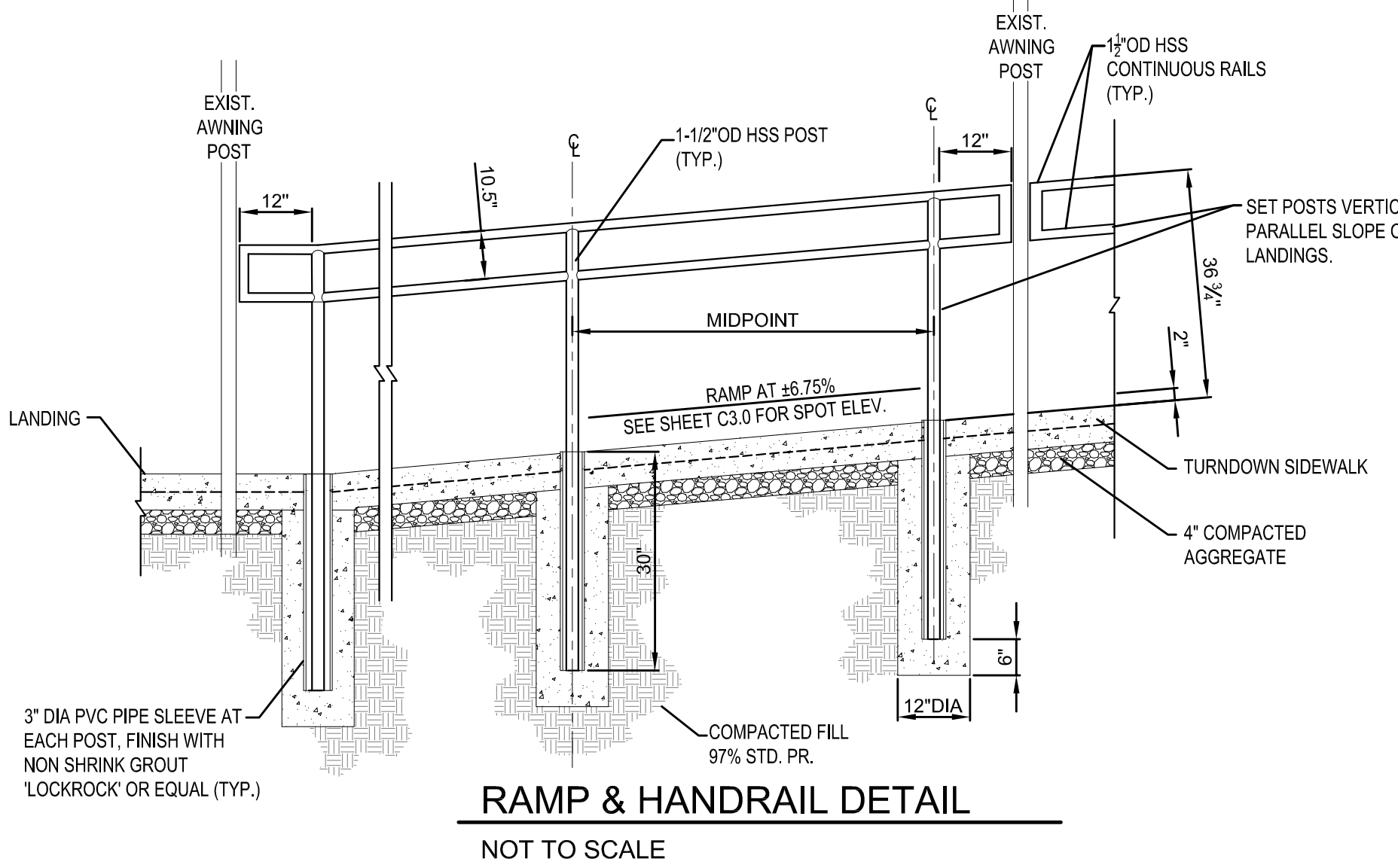
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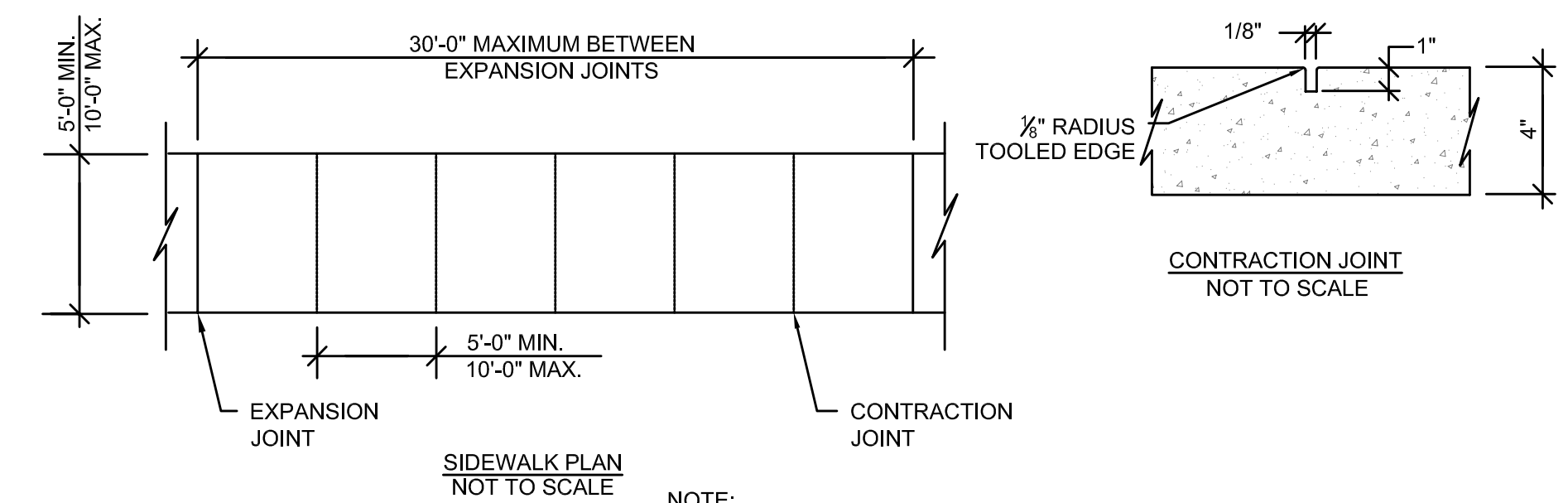
- NOTES**
1. FIELD VERIFY DIMENSIONS OF CONCRETE RAMP PRIOR TO COMPLETING SHOP DWGS.
 2. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION OF RAILING.
 3. ALL WELDED CONSTRUCTION. GRIND WELDS SMOOTH PRIOR TO APPLYING RUST PROOF PRIMER.
 3. FINISH: ONE COAT RUST PROOF PRIMER, AND TWO COATS INDUSTRIAL GRADE EPOXY ENAMEL FINISH. COLOR TO BE SELECTED BY OWNER.
 4. ALL CONCRETE SHALL BE RATED 4000 PSI.
 5. RAILING AROUND LANDING TO HAVE TOE RAILING



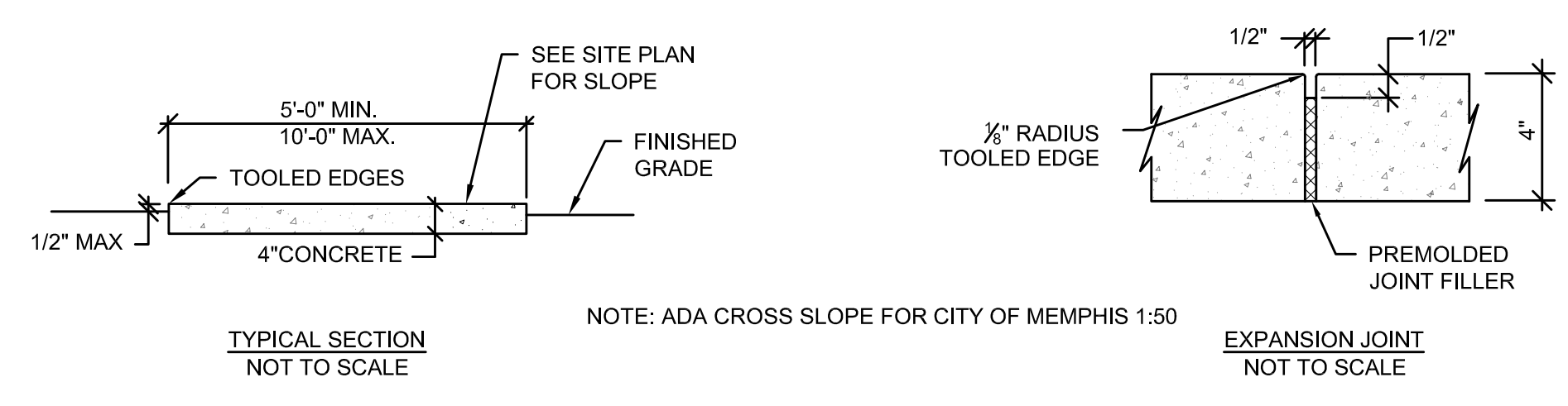
CURB OPENING (AT DRAINAGE FLUME)
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RAMP & HANDRAIL DETAIL
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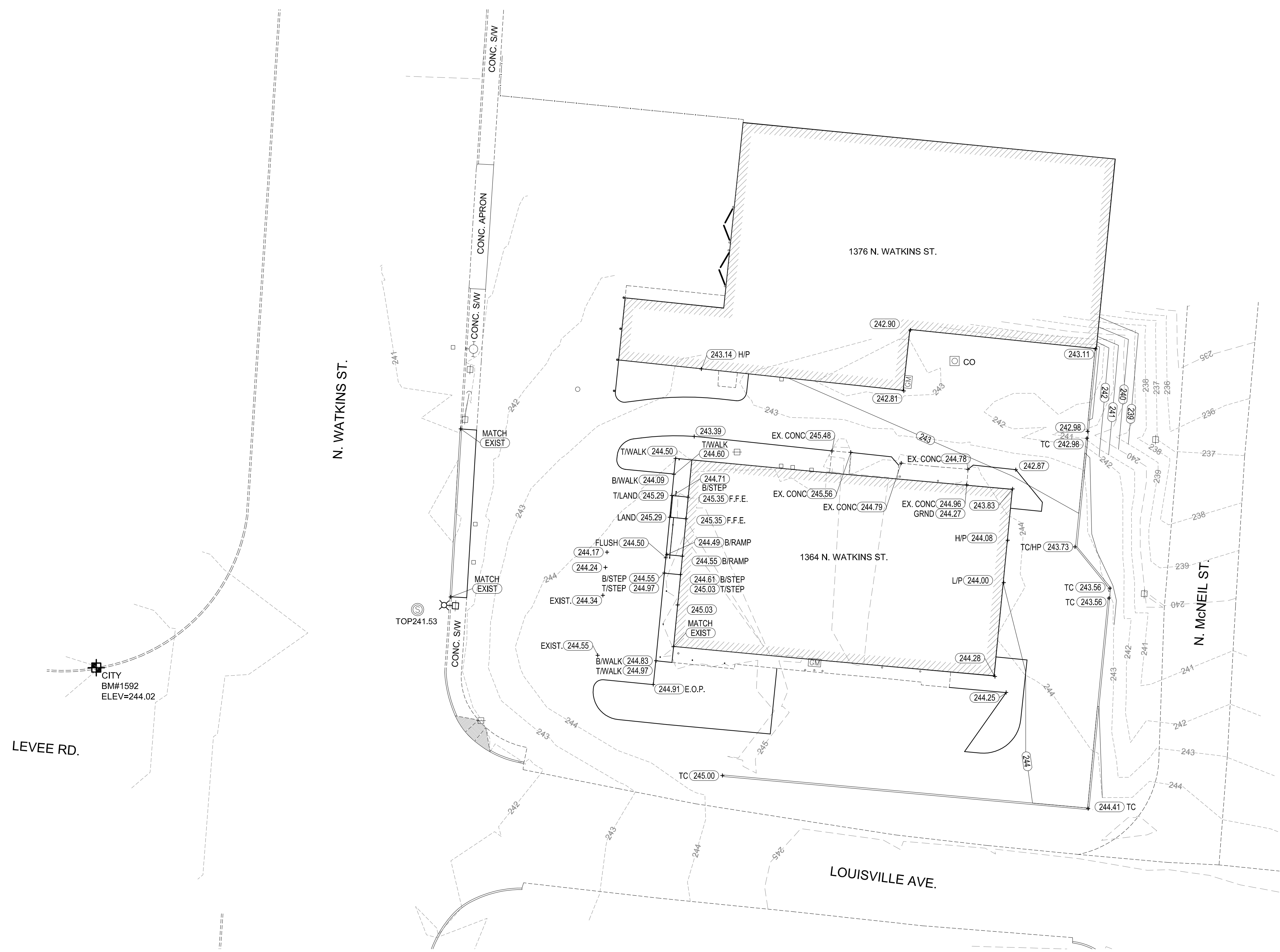
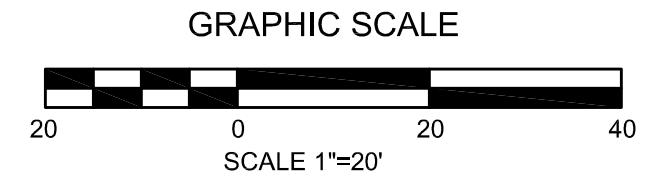
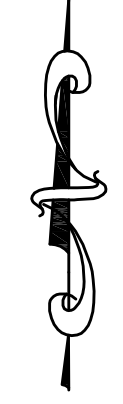
SIDEWALK DETAILS
 NOT TO SCALE



TYPICAL SECTION
 NOT TO SCALE

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UTILITY NOTE: LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION LIMITS. CALL 1-800-351-1111 FOR UTILITY LOCATIONS. CALL 636-0237 FOR SEWER LOCATIONS.



GRADING & DRAINAGE NOTES

1. A MINIMUM OF 24-HOUR PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT (901) 636-2462.
2. ALL NEWLY CUT OR FILL AREAS, LACKING ADEQUATE VEGETATION, SHALL BE SEEDDED, MULCHED, FERTILIZED AND/OR SODDED AS REQUIRED TO EFFECTIVELY CONTROL SOIL EROSION.
3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY COMPANIES WHICH MAINTAIN A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PARAMETERS, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING THE WORK ON THE PROJECT. FOR SITE LOCATION OF EXISTING UTILITIES INVOLVING ML&W, SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, CALL 1-800-351-1111. FOR SEWER LOCATIONS CALL (901) 529-9025.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
5. ALL FILL SOILS SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTM D-698) WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN LIFTS NOT TO EXCEED SIX (6) INCHES OF COMPACTED THICKNESS.
6. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS.
7. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
8. VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE ENGINEER OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.
9. ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
10. LOT DRAINAGE: FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION FOR DRAINAGE. THE FINISH GRADE MUST BEGIN AT LEAST 3 INCHES BELOW THE TOP OF THE FOUNDATION WALL OR THE GRADE OF THE CONCRETE SLAB AT THE INTERIOR IN THE CASE OF AN INTEGRAL SLAB AND FOUNDATION. THE MINIMUM GRADE AWAY FROM THE FOUNDATION SHALL BE TWO PERCENT (2%) IN ALL DIRECTIONS. THE DRIVEWAY SHALL BE SLOPED DOWN AT TWO PERCENT (2%) FOR AT LEAST EIGHT FEET FROM THE STRUCTURE.

MARK DATE DESCRIPTION

REVISIONS

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PROJECT NAME

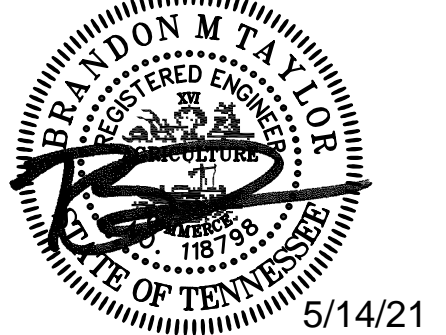
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DRAWING TITLE

GRADING & DRAINAGE
PLAN

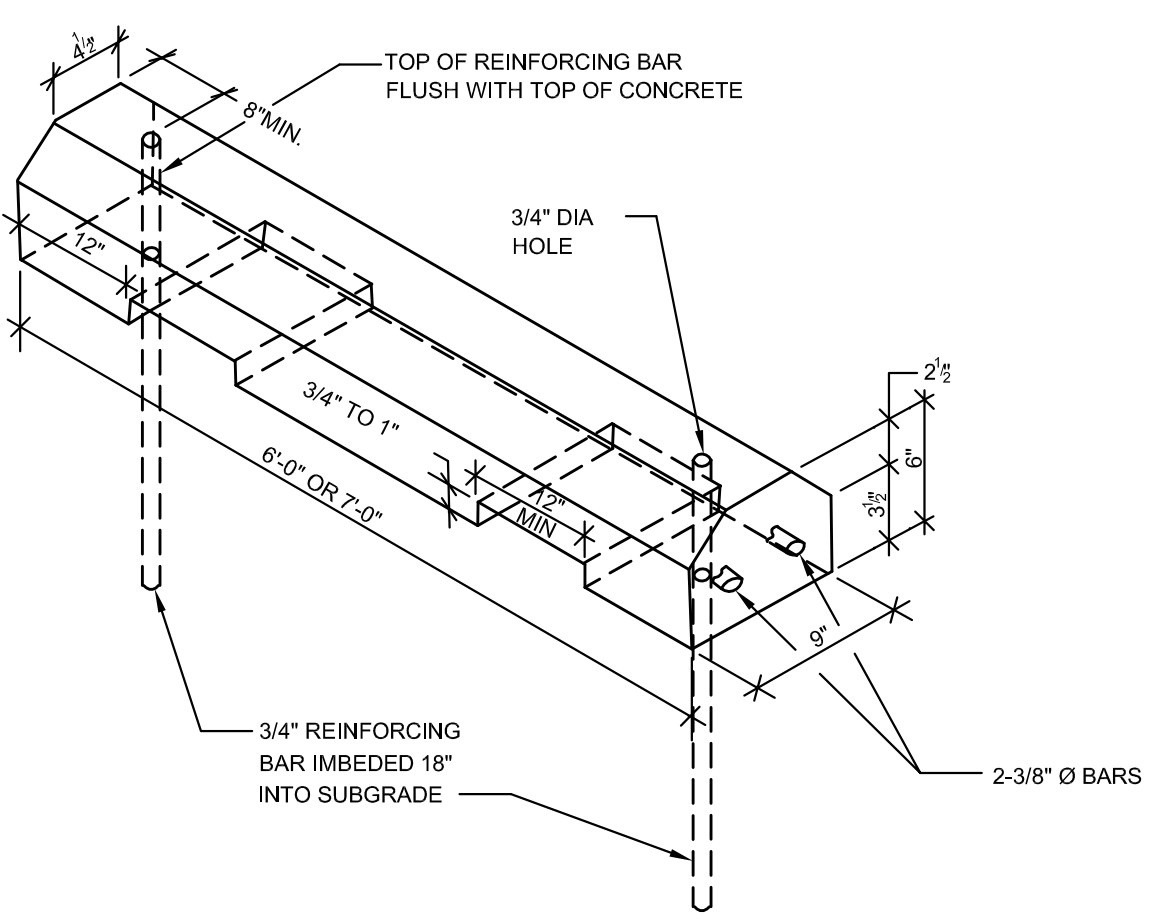
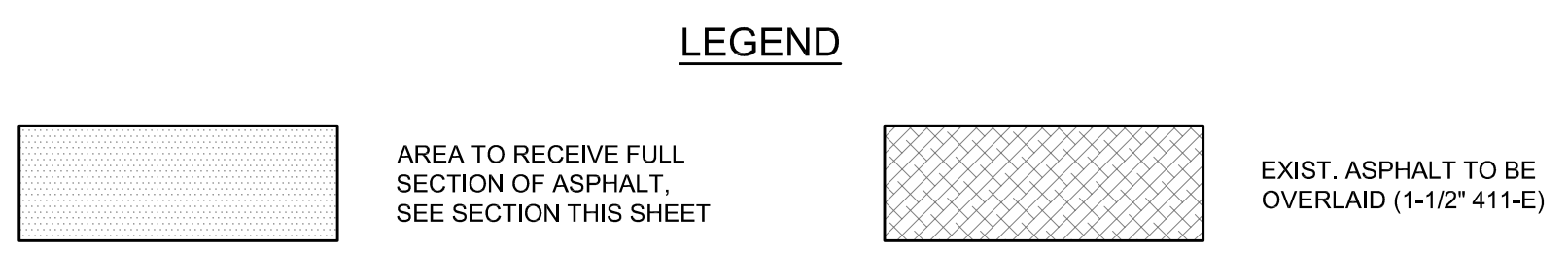
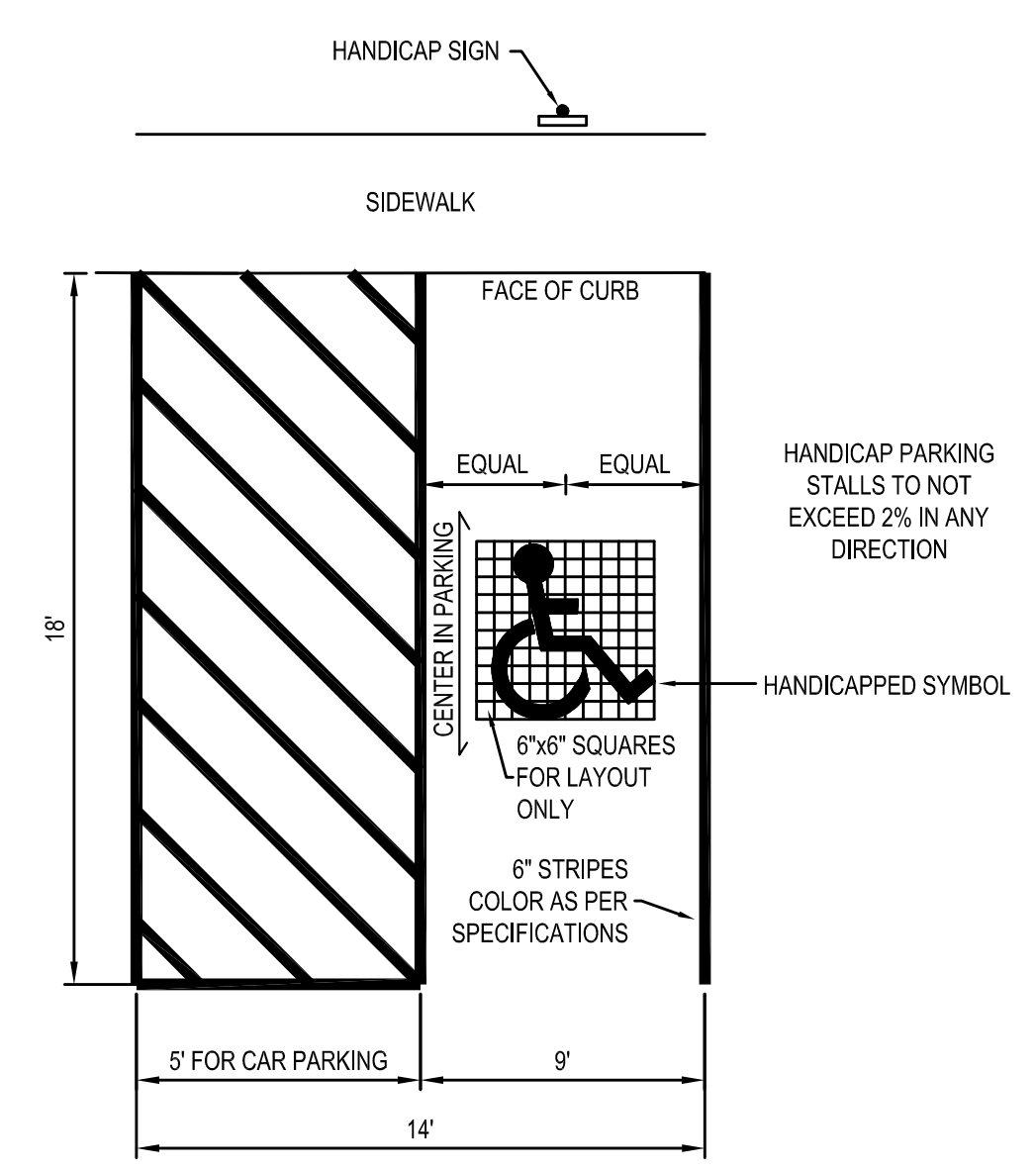
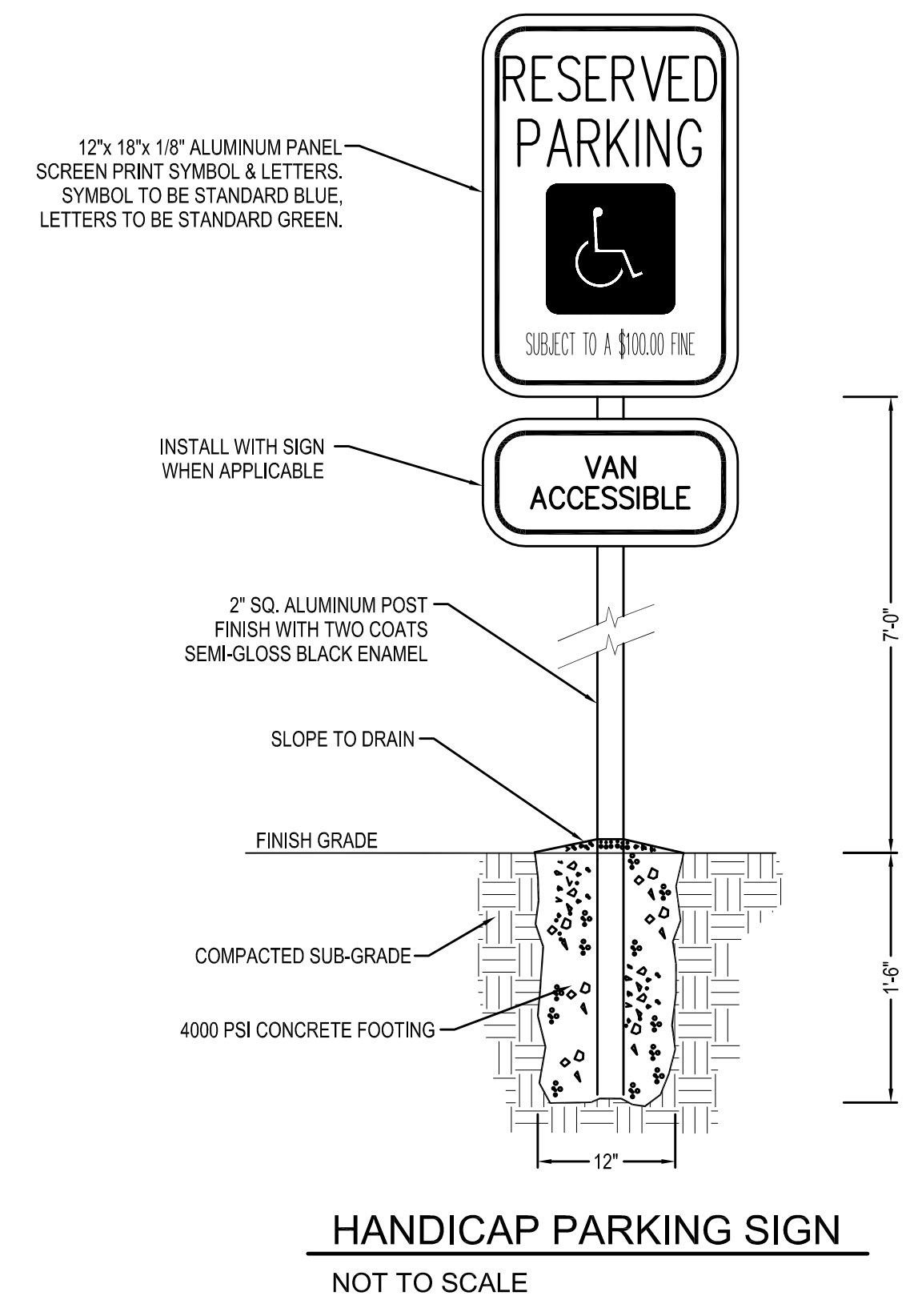
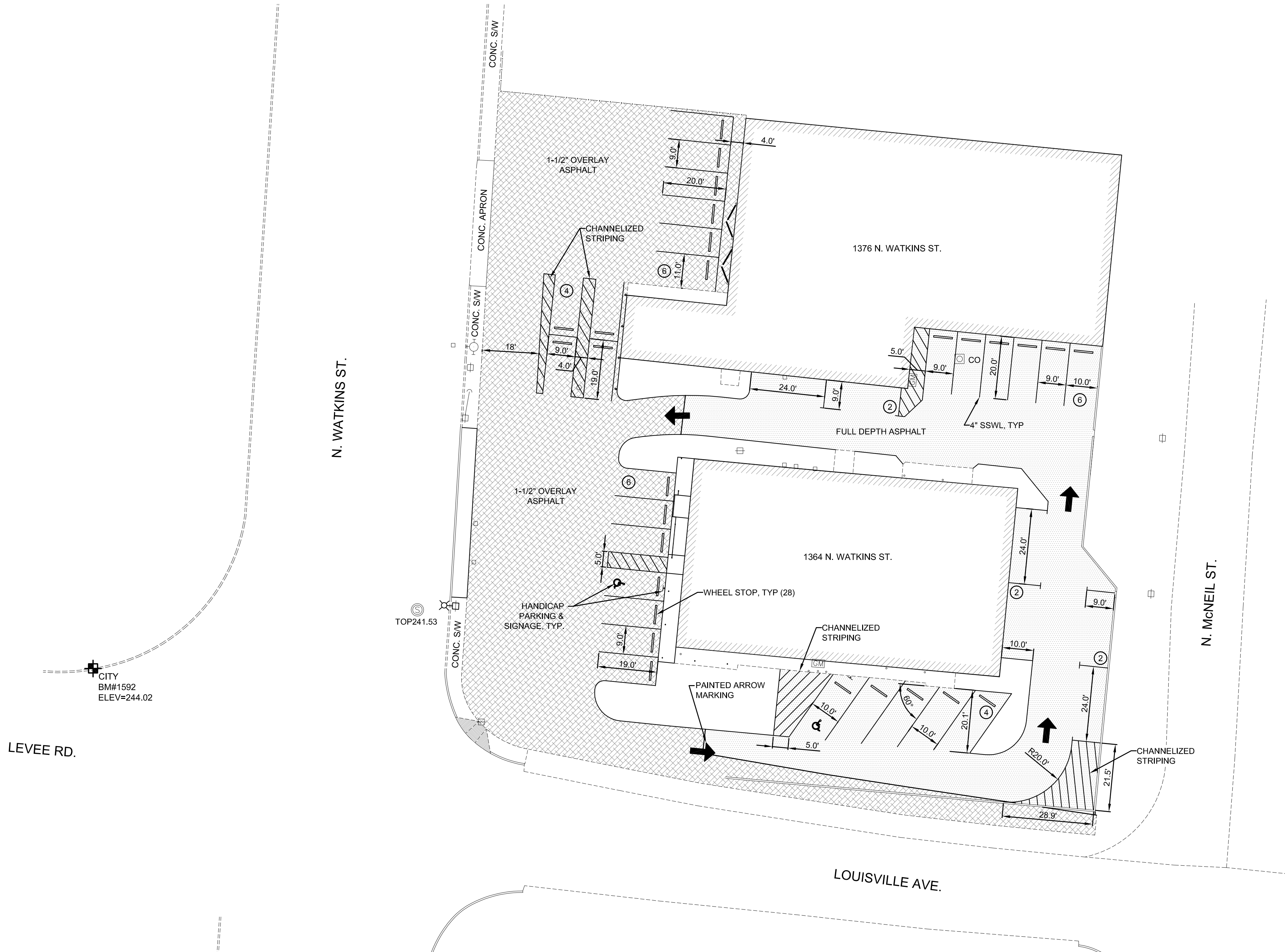
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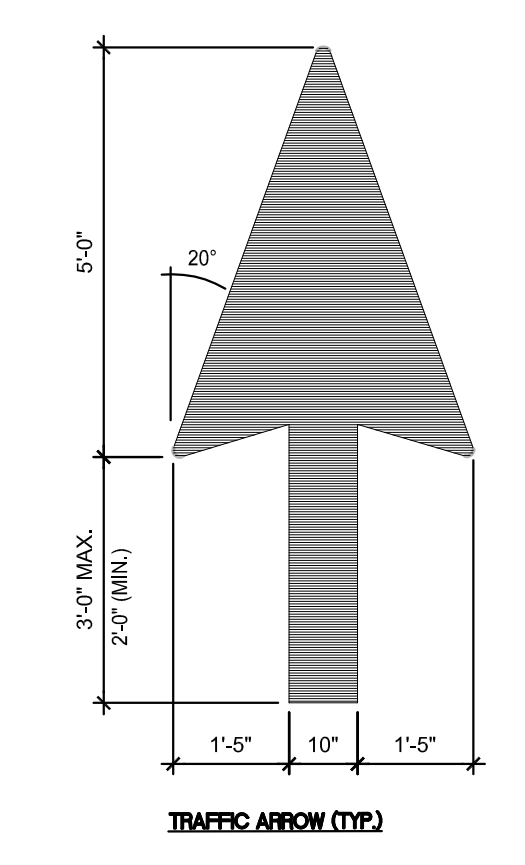
SHEET ID

CONSTRUCTION DOCUMENTS

C3.0

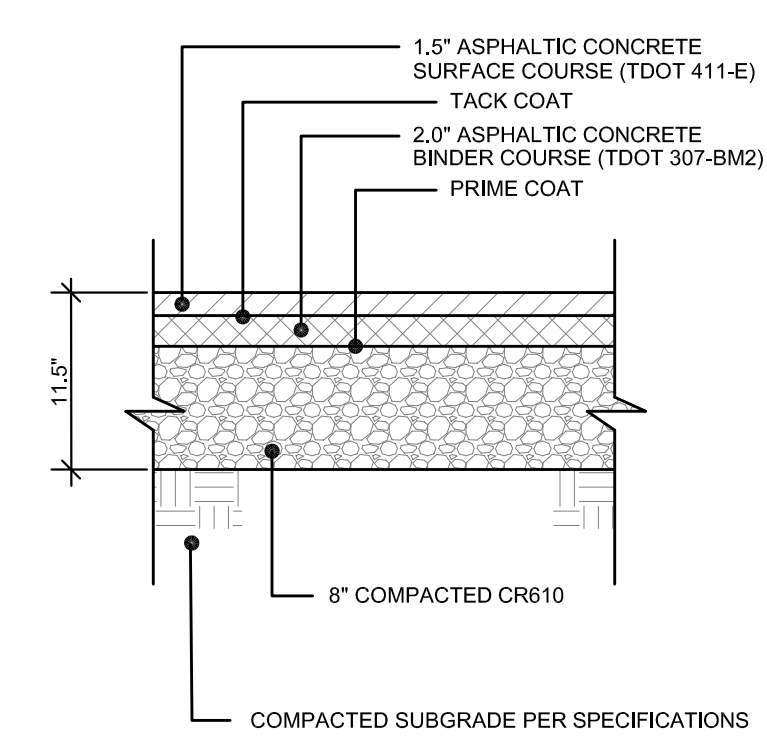


WHEEL STOP (PRECAST CONCRETE)
 NOT TO SCALE



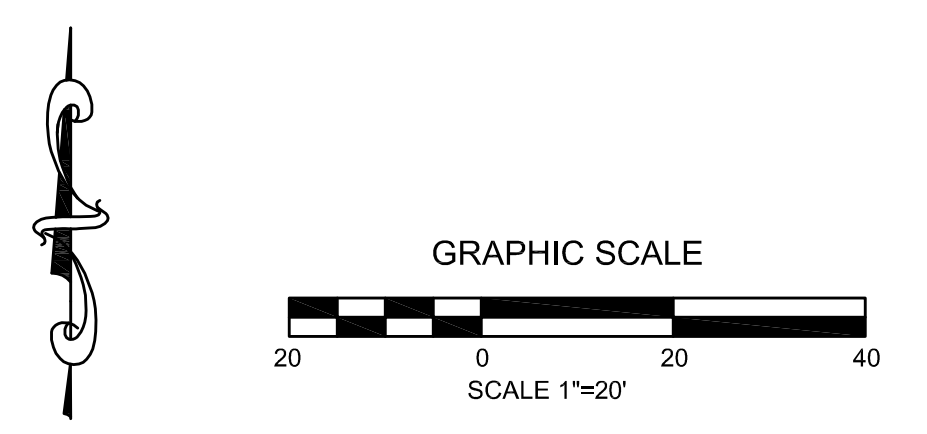
NOTE: SYMBOL SHALL BE PAINTED WHITE AND TO THE DIMENSIONS SHOWN.

ARROW STRIPING DETAIL
 NOT TO SCALE



FULL DEPTH LIGHT DUTY ASPHALT SECTION
 NOT TO SCALE

HANDICAP PARKING STRIPING DETAIL
 NOT TO SCALE



UTILITY NOTE: LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION LIMITS. CALL 1-800-351-1111 FOR UTILITY LOCATIONS. CALL 636-6237 FOR SEWER LOCATIONS.

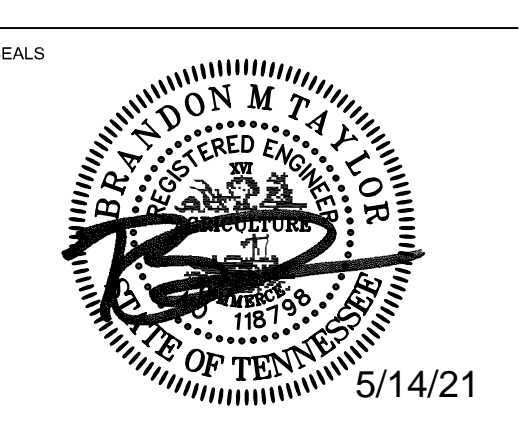
MARK	DATE	DESCRIPTION
REVISIONS		
CLIENT		

CLIENT
MATA
 MEMPHIS AREA TRANSIT AUTHORITY
 MATA HEADQUARTERS
 1370 LEVEE RD,
 MEMPHIS, TN. 38108

PROJECT NAME
**1364 N WATKINS
 PACKAGE 1 -
 RENOVATIONS**

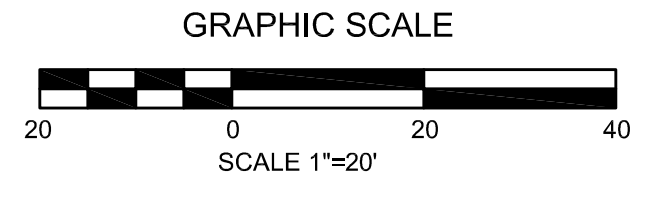
Project No. 2020688
 Date Issued 05.14.21
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DRAWING TITLE
**PAVING & STRIPING
 PLAN**



SHEET ID
CONSTRUCTION DOCUMENTS

C4.0



MARK DATE DESCRIPTION

REVISIONS

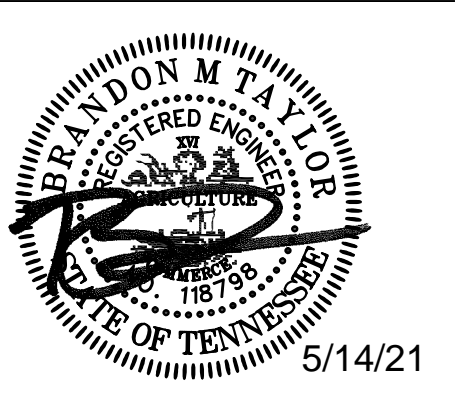
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MATA
MEMPHIS AREA TRANSIT AUTHORITY
MATA HEADQUARTERS
1370 LEVEE RD,
MEMPHIS, TN. 38108

PROJECT NAME
**1364 N WATKINS
PACKAGE 1 -
RENOVATIONS**

Project No. 2020608
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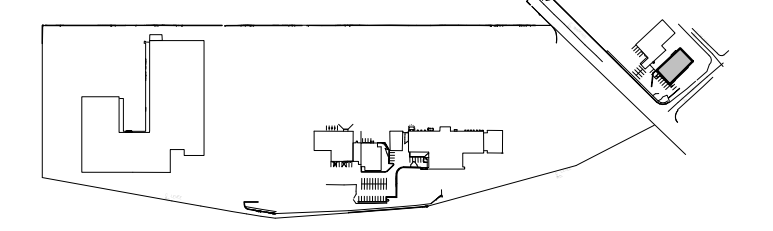
DRAWING TITLE
**SITE FENCING
PLAN**



SHEET ID
CONSTRUCTION DOCUMENTS

C5.0

UTILITY NOTE: LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION LIMITS. CALL 1-800-351-1111 FOR UTILITY LOCATIONS. CALL 636-0237 FOR SEWER LOCATIONS.



KEY SITE PLAN - N. WATKINS OFFICE

GENERAL PLAN NOTES:

- PARTITION TYPES ARE TYPE A, FULL HEIGHT PARTITIONS (FHP), UNLESS NOTED OTHERWISE. SEE SHEET A170 FOR PARTITION TYPES.
- SLOPE ALL SHOWER FLOORS AND ALL TOILET ROOMS WITH FLOOR DRAINS 1/4" PER FOOT TO DRAIN, MIN. ELEVATIONS, AND RATINGS.
- SEE A170 FOR TYPICAL DOOR DETAILS, DOOR ELEVATIONS, AND RATINGS.
- REFER TO SHEETS A120 FOR ACCESSORIES AND FIXTURES TYPICAL AT TOILET ROOMS.

RATED PARTITIONS LEGEND:

- 1 HR FIRE RATED PARTITION
- 2 HR FIRE RATED PARTITION

REFERENCE SYMBOLS:

- DOOR TAG, SEE DOOR SCHEDULE
- PARTITION TYPE TAG, SEE PARTITION TYPES
- INTERIOR ELEVATION TAG

REFLECTED CEILING GENERAL NOTES:

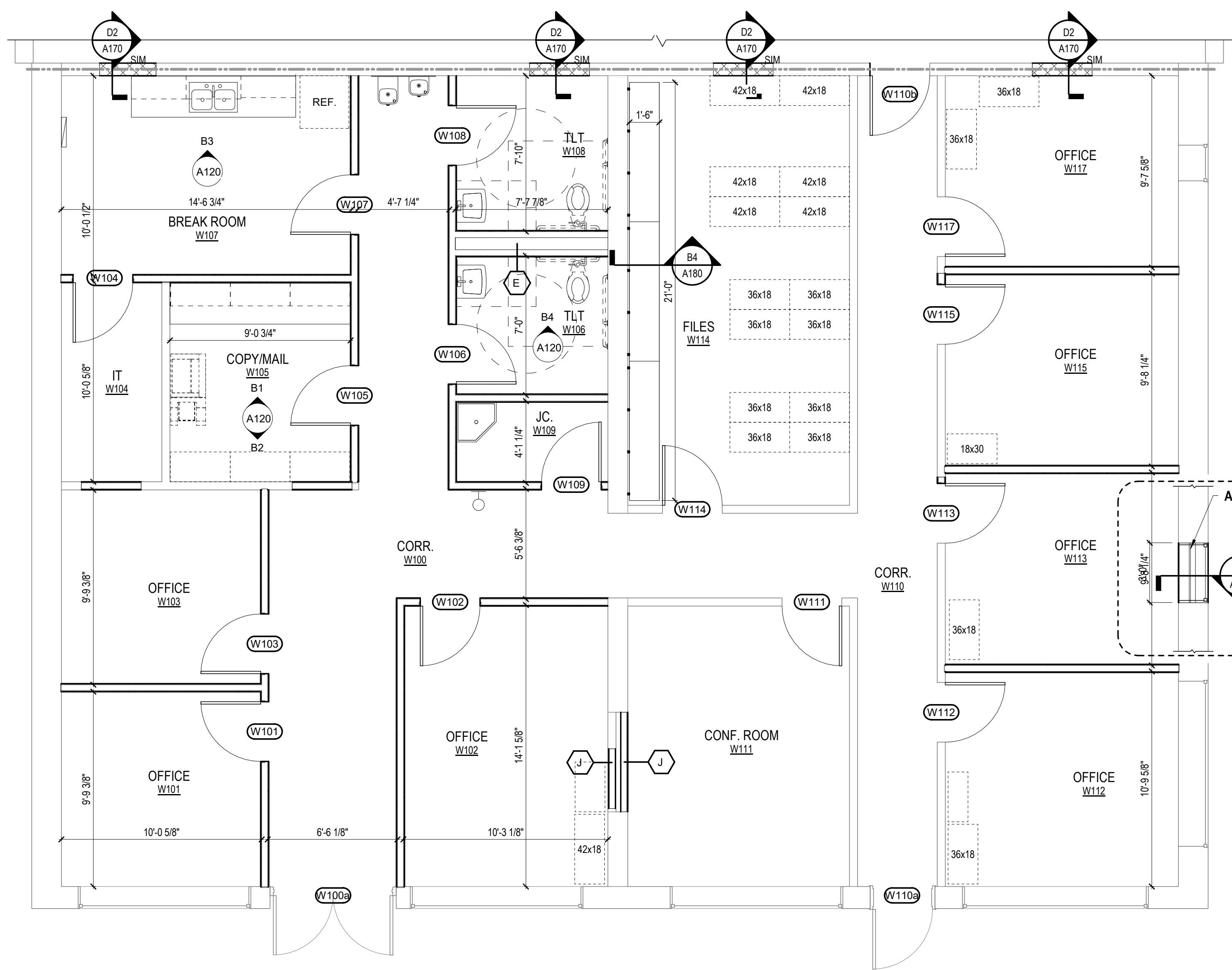
- ALL ACT CEILINGS SHALL BE 7'-11" ACT UNLESS OTHERWISE NOTED.
- ALL SOFFITS SHALL BE 7'-2" GWB UNLESS OTHERWISE NOTED.
- COORDINATE ALL ABOVE CEILING WORK PRIOR TO START OF CONSTRUCTION AND FABRICATION OF COMPONENTS.
- COORDINATE ALL CEILING WORK WITH OWNER'S INSTALLATION OF EQUIPMENT.

REFLECTED CEILING LEGEND:

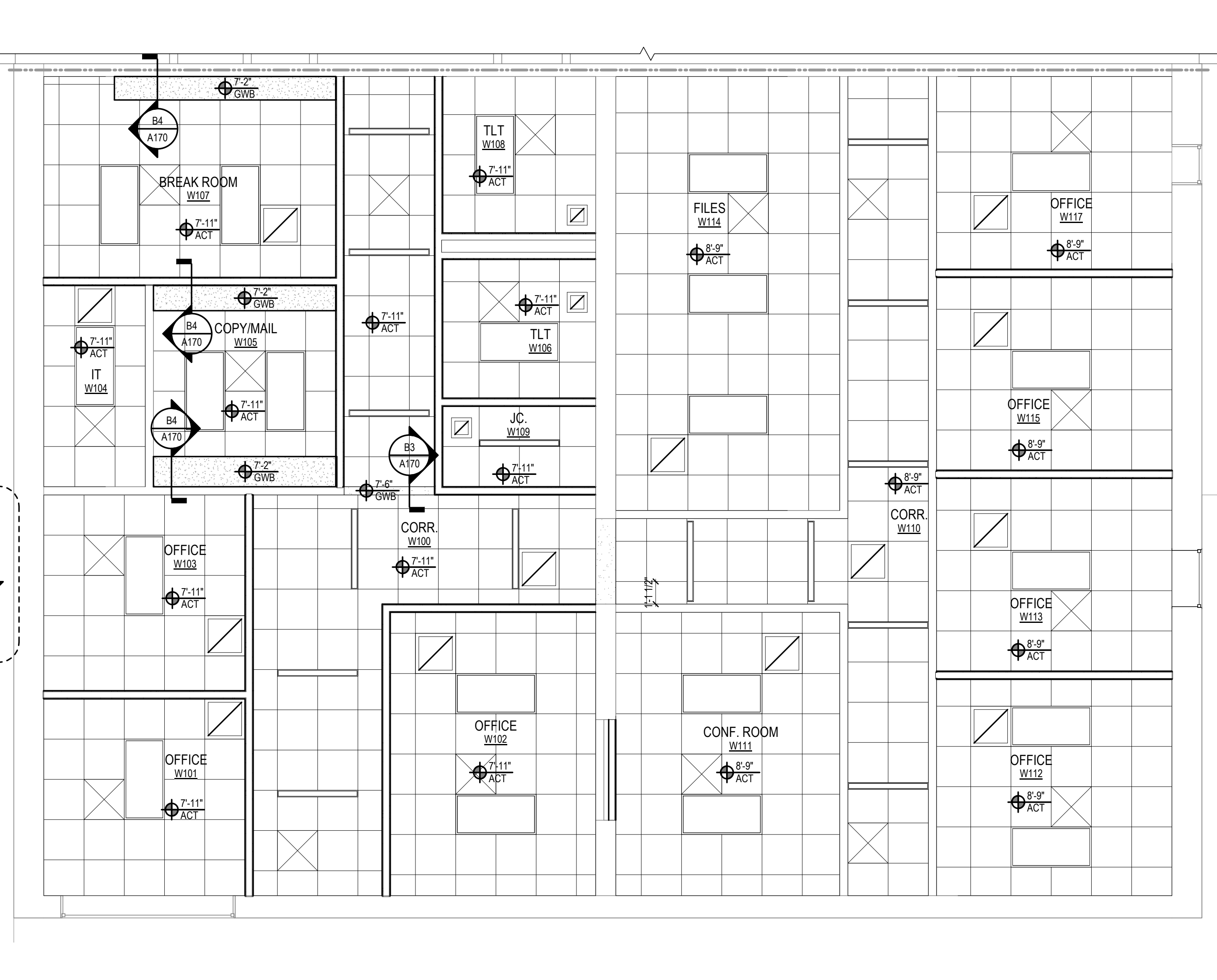
- RECESSED 2"x4" LIGHT
- RECESSED 2"x2" LIGHT
- 2"x2" ACOUSTIC TILE
- GYPSUM WALLBOARD CEILING OR SOFFIT
- HEIGHT MATL. CEILING HEIGHT SYMBOL
- EXIT SIGN
- MECHANICAL SUPPLY DIFFUSER
- MECHANICAL RETURN REGISTER

CASEWORK GENERAL NOTES:

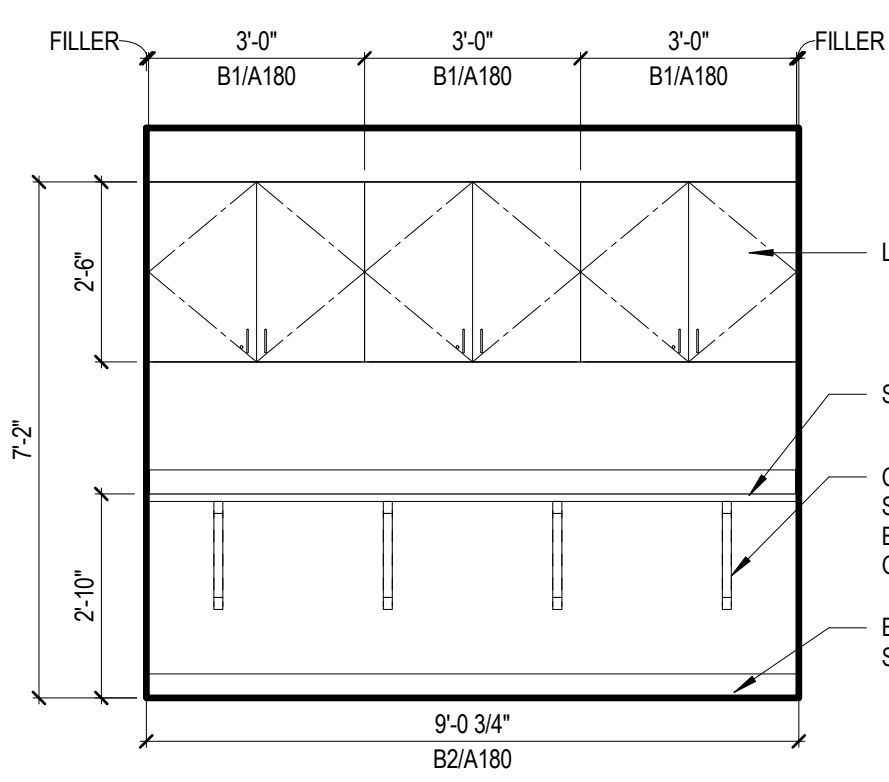
- ALL CASEWORK VERTICAL SURFACE SHALL RECEIVE LP UNLESS NOTED OTHERWISE IN ELEVATIONS AND/OR SPECIALTY CASEWORK SCHEDULE. SEE INTERIOR FINISH INDEX FOR FURTHER INFORMATION.
- ALL CASEWORK HORIZONTAL SURFACES SHALL RECEIVE LP UNLESS NOTED OTHERWISE IN ELEVATIONS AND/OR SPECIALTY CASEWORK SCHEDULE. SEE INTERIOR FINISH INDEX FOR FURTHER INFORMATION.
- PROVIDE FINISHED END PANELS WHERE CASEWORK DOES NOT ABUT WALL.
- PROVIDE FILLER BETWEEN CABINET AND WALL CONSTRUCTION. EXTEND COUNTERTOPS TO FINISHED WALL. SEE CASEWORK DETAILS. SCRIBE FILLER TO WALL & ADJOINING SOFFITS. (TYP.) SEE CASEWORK DETAILS.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION.
- AT OPEN ENDS OF CABINETS WITH VALANCES, EXTEND SIDE PANEL DOWN TO ALIGN WITH BOTTOM OF VALANCE.
- PROVIDE GROMMETS ABOVE ELECTRICAL & COMMUNICATION OUTLETS AT A MINIMUM SPACING OF 30" O.C. PROVIDE A MINIMUM OF (2) GROMMETS AT COUNTER TOPS OVER 48" WIDE. COORDINATE EXACT LOCATION WITH OWNER.
- SEE INTERIOR FINISH INDEX SHEET FOR ADDITIONAL FINISH INFORMATION.
- PROVIDE EDGEBANDING ON TOP AND SIDES OF BACKSPASH AND FRONTSIDES OF ALL LP COUNTER TOPS.
- PROVIDE VINYL EDGE ON FRONT(S) OF ALL EXPOSED LP FIXED AND ADJUSTABLE SHELVING.



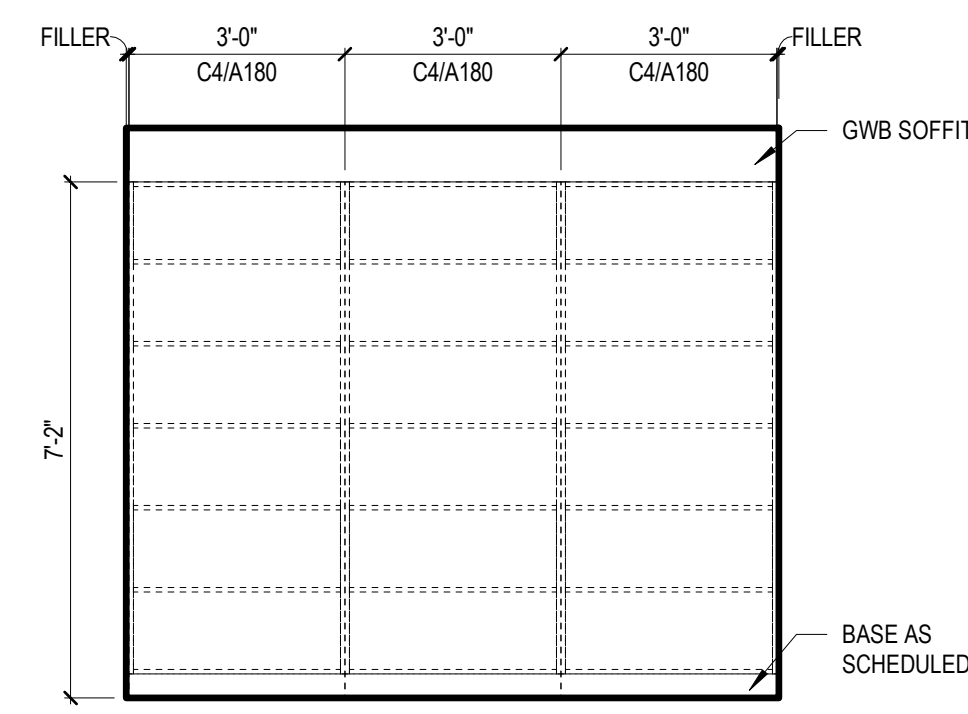
A1 FLOOR PLAN
SCALE: 1/4" = 1'-0"



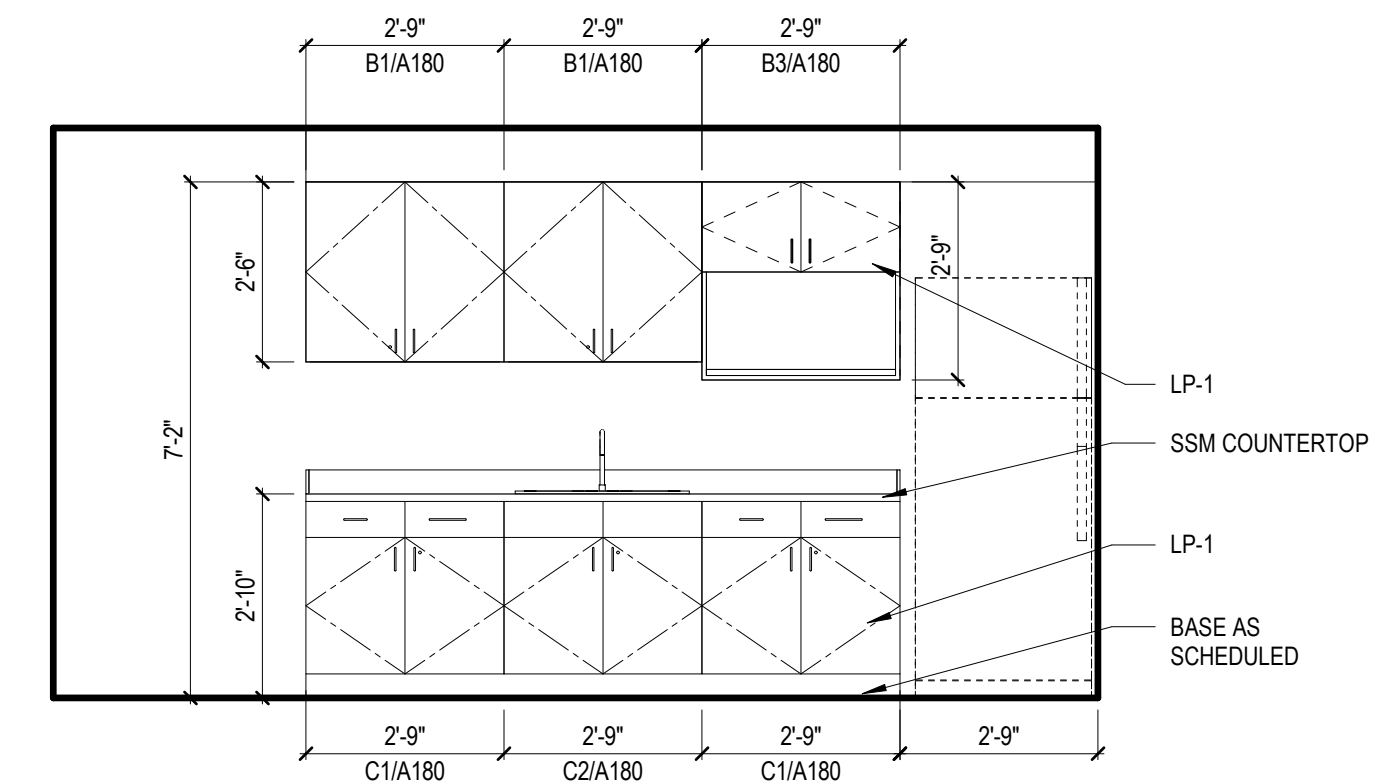
A3 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



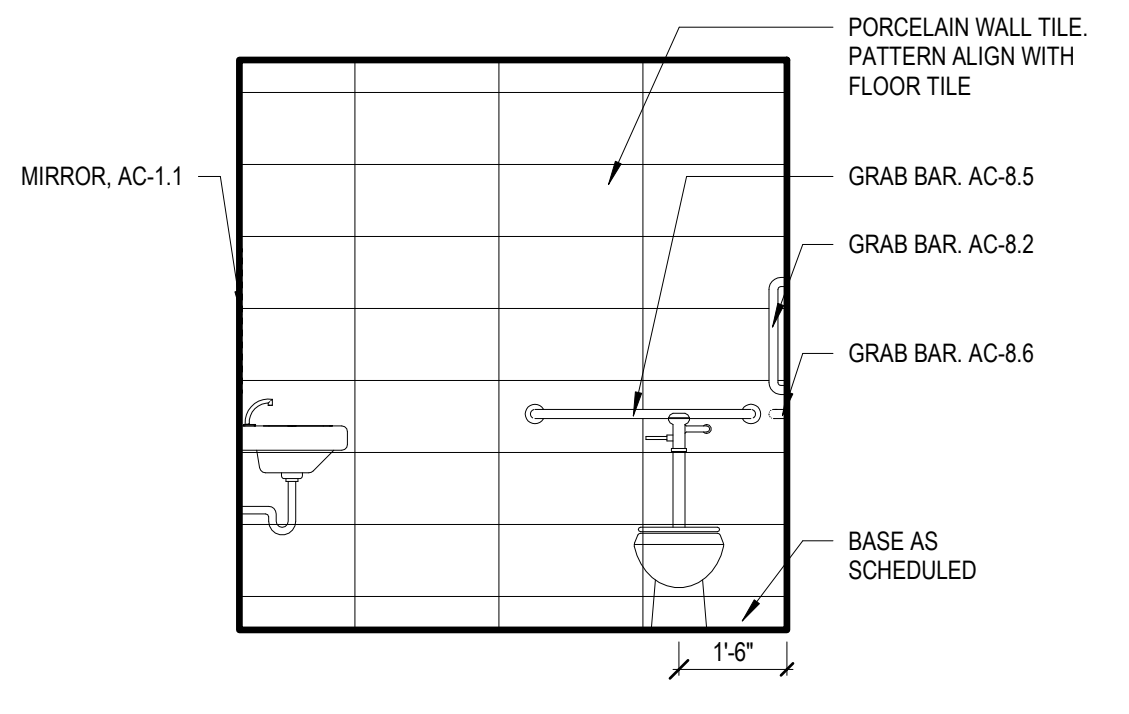
B1 COPY/MAIL - A
SCALE: 3/8" = 1'-0"



B2 COPY/MAIL - B
SCALE: 3/8" = 1'-0"



B3 BREAK ROOM
SCALE: 3/8" = 1'-0"



B4 TLT - TYP.
SCALE: 3/8" = 1'-0"

REVISIONS	MARK	DATE	DESCRIPTION

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MATA HEADQUARTERS
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MEMPHIS, TN. 38108

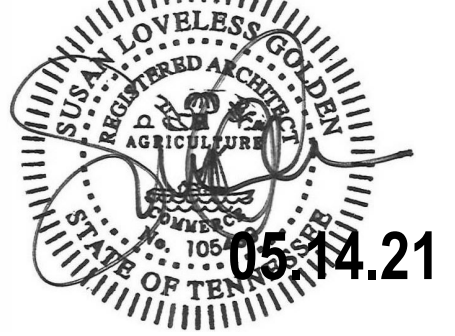
PROJECT NAME
**1364 N WATKINS
PACKAGE 1 -
RENOVATIONS**

Project No. 200908
Date Issued 05.14.21
Drawing Scale As indicated
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DRAWING TITLE

**N. WATKINS OFFICE
FLOOR PLAN, RCP
AND ELEVATION**

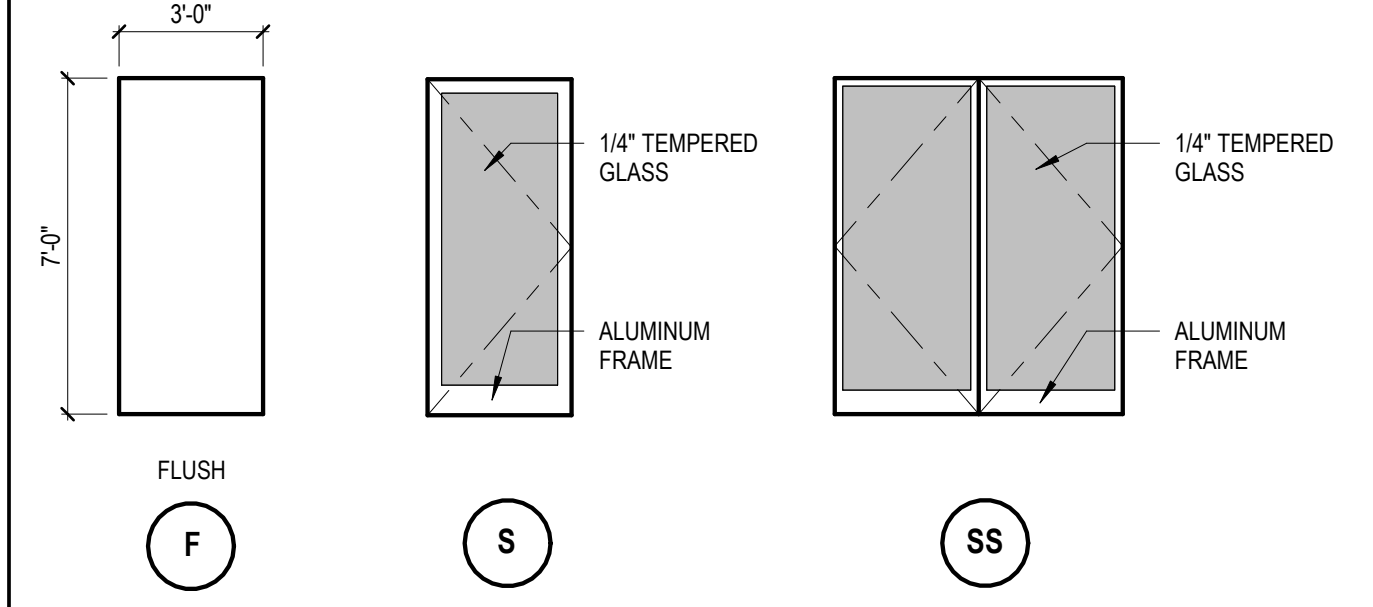
SEALS



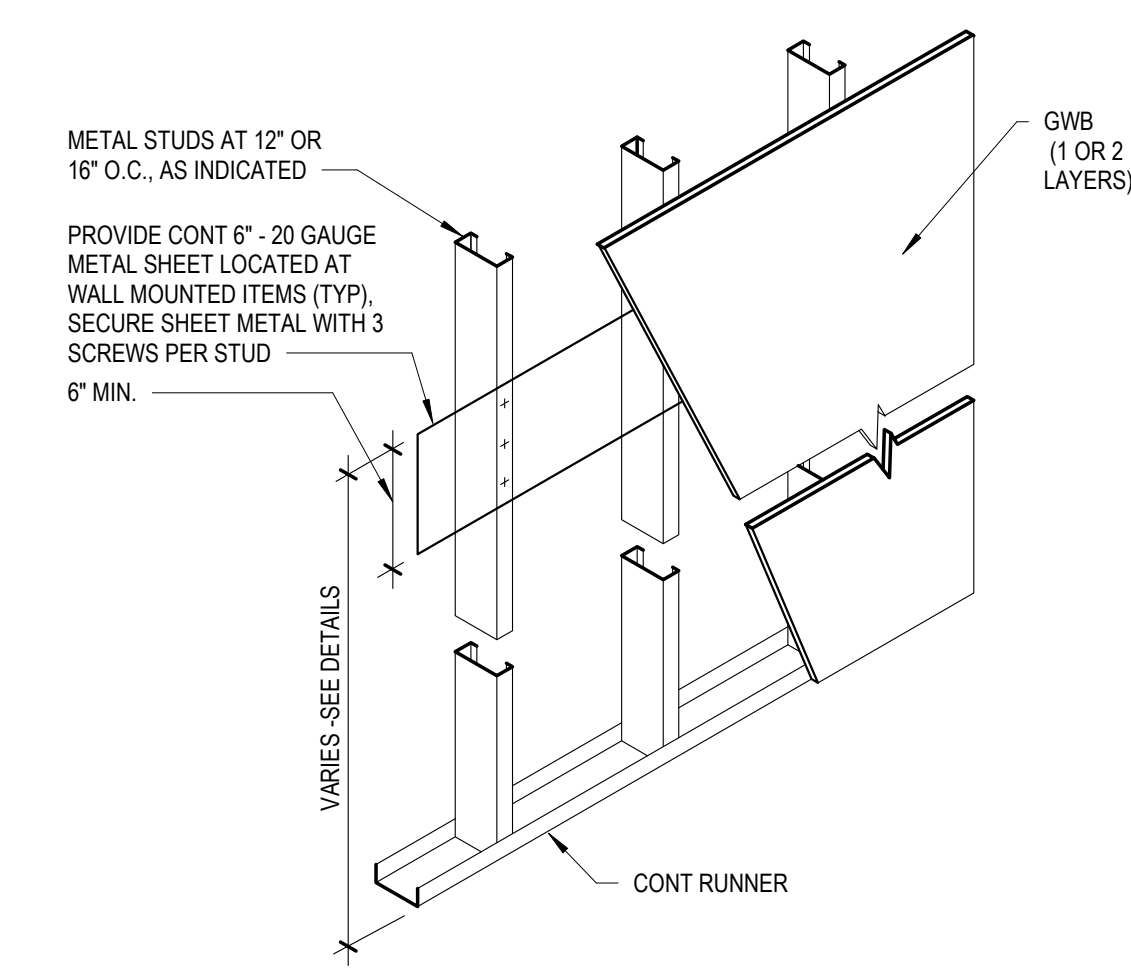
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CONSTRUCTION DOCUMENTS

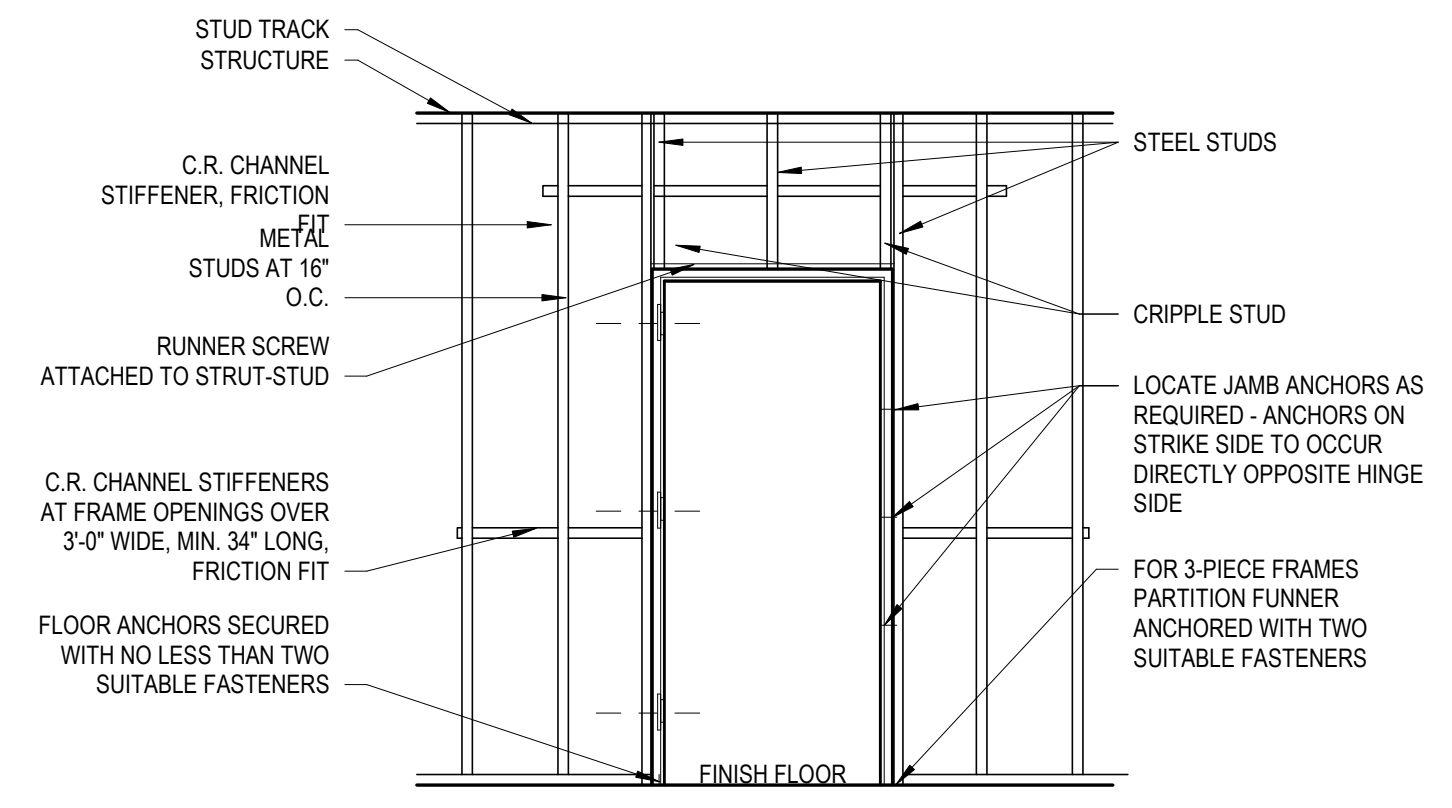
N. WATKINS DOOR SCHEDULE									
DOOR NO.	DOOR OPENING		DOOR ELEV.	DOOR MAT'L	FRAME MAT'L	FRAME DETAILS		COMMENTS	
	WIDTH	HEIGHT				HEAD	JAMB		
W100a	6'-0"	7'-0"		EX. AL/GL	EX. ALUM			SS DOOR ELEV. EX. DOOR + FRAME, INSTALL ELECTRIC STRIKE, CARD READER, CLOSER, NEW LEVER.	
W101	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	OFFICE SET	
W102	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	OFFICE SET	
W103	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	OFFICE SET	
W104	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	STORAGE SET	
W105	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	PASSAGE SET	
W106	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	PRIVACY SET	
W107	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	PASSAGE SET	
W108	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	PRIVACY SET	
W109	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	STORAGE SET	
W110a	3'-0"	7'-0"		EX. AL/GL	EX. ALUM			S DOOR ELEV. EX. DOOR + FRAME, INSTALL ELECTRIC STRIKE, CARD READER, CLOSER, NEW LEVER.	
W110b	3'-0"	6'-8"	F	HM	HM	B2/A170	B2/A170	STORAGE SET	
W111	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	PASSAGE SET	
W112	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	OFFICE SET	
W113	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	OFFICE SET	
W114	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	CLASSROOM SET	
W115	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	OFFICE SET	
W117	3'-0"	7'-0"	F	WD	HM	B1/A170	B1/A170	OFFICE SET	



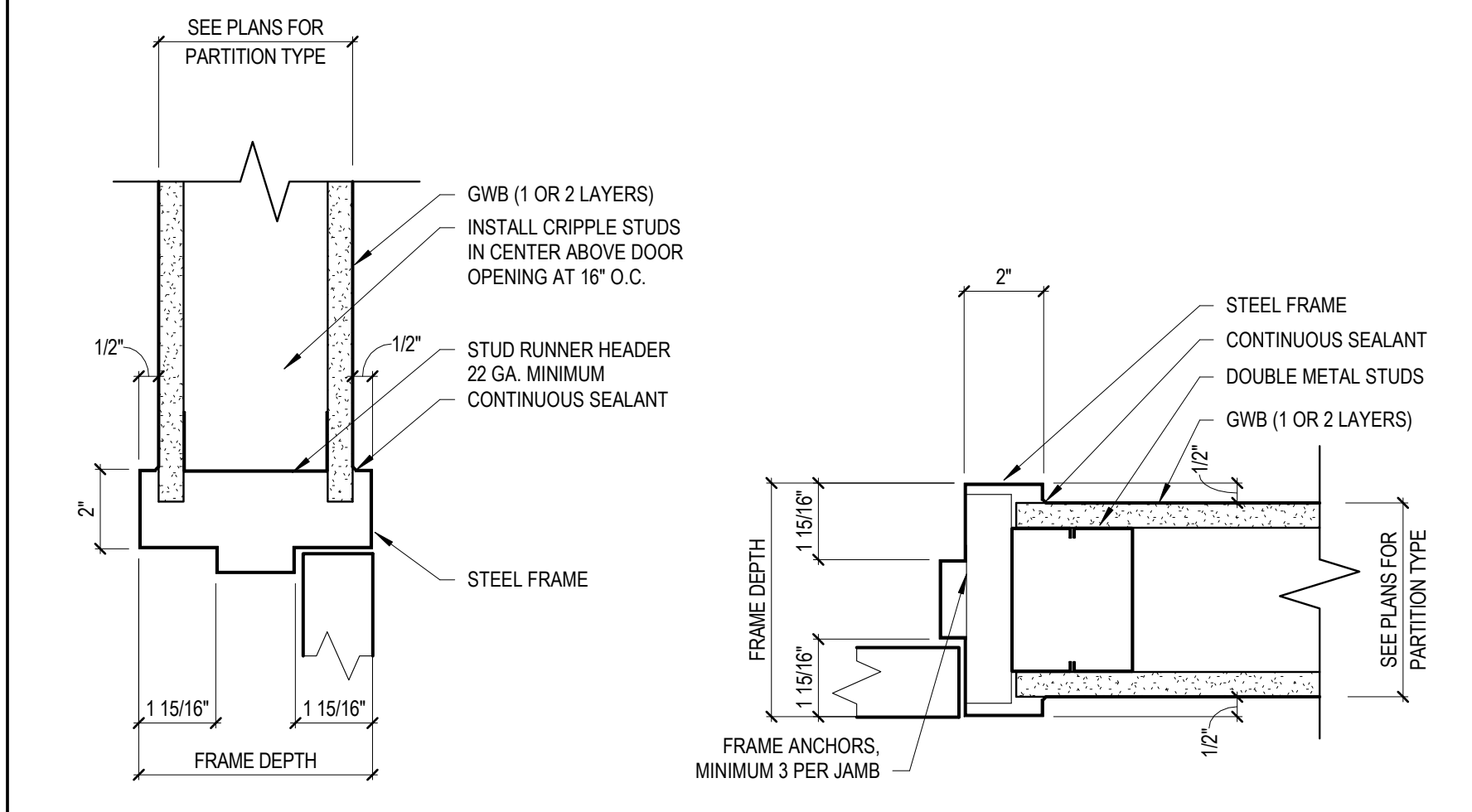
A1 DOOR TYPES
SCALE: 3/8" = 1'-0"



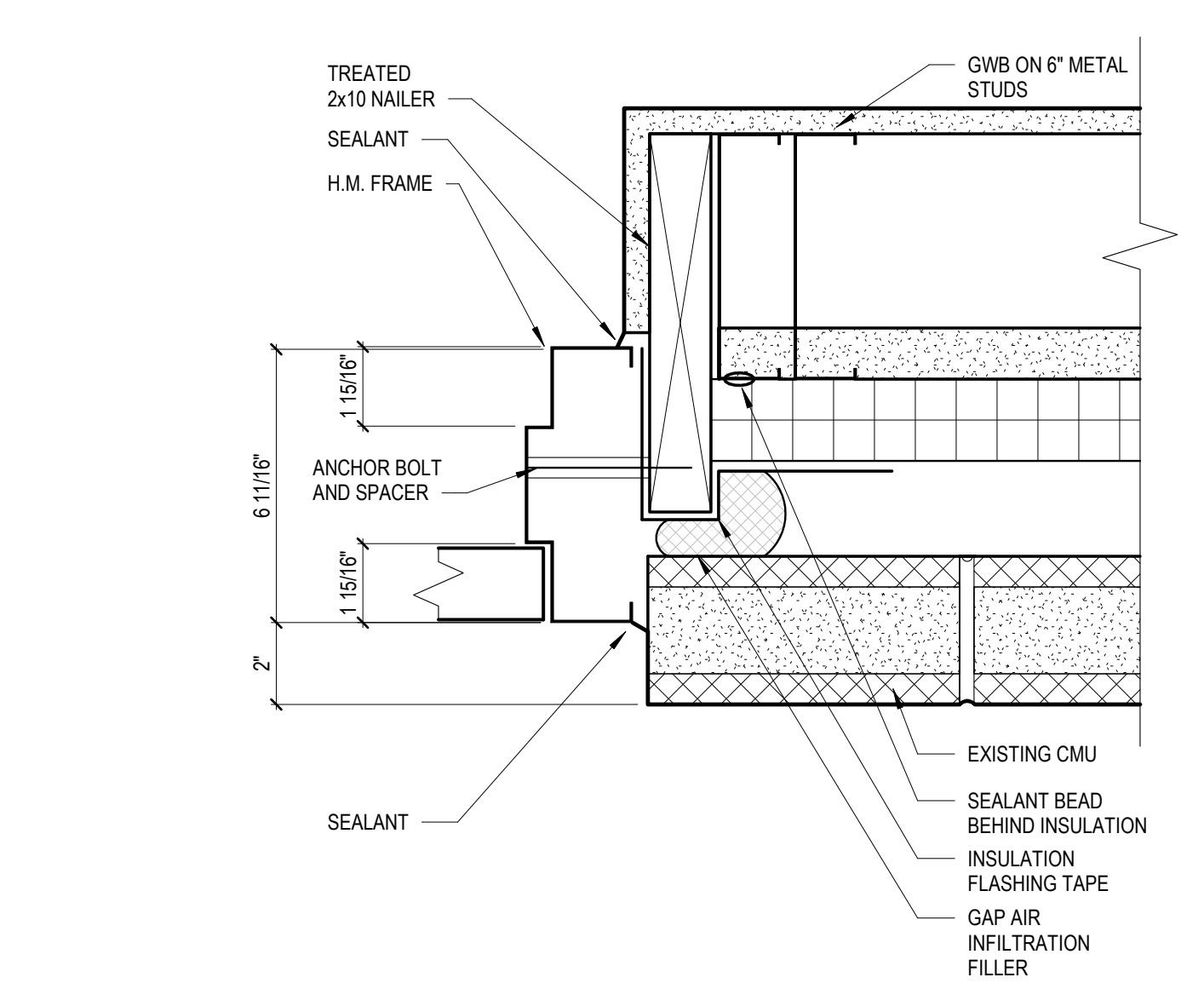
A3 WALL REINFORCING FOR WALL MOUNTED ITEMS
SCALE: 3/4" = 1'-0"



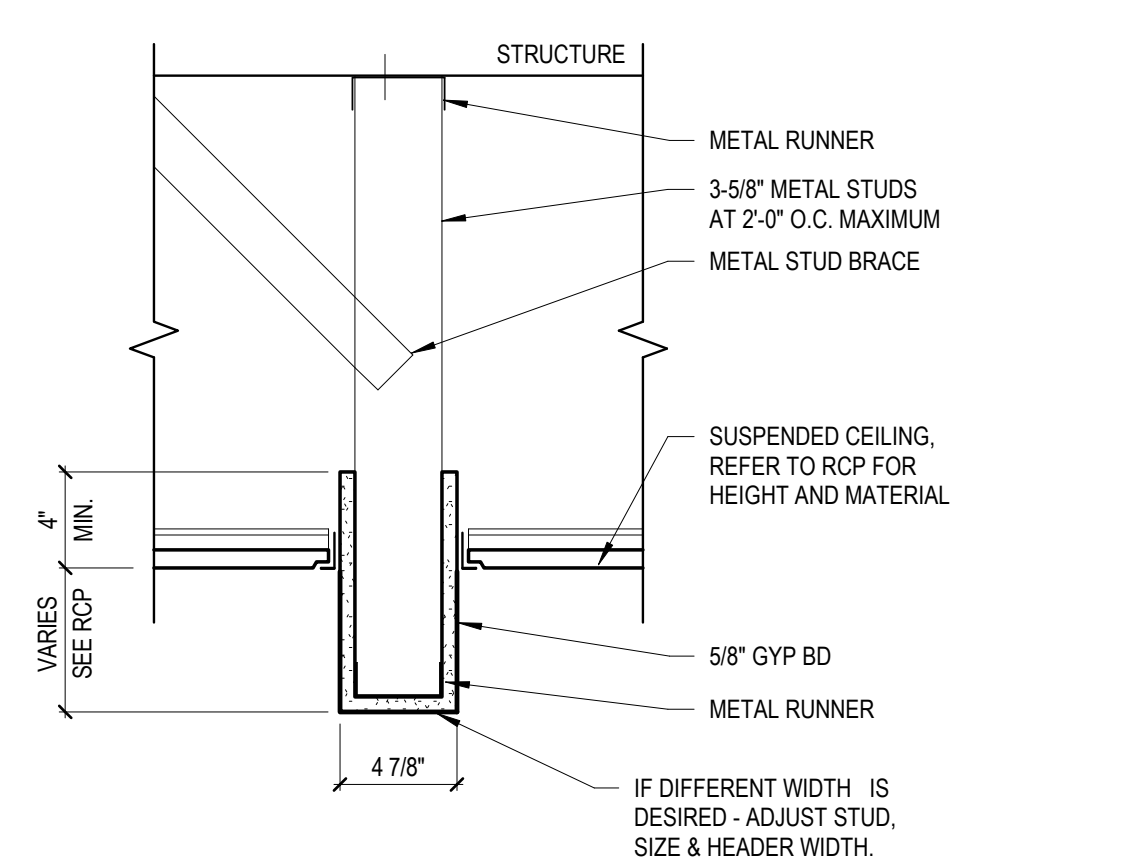
A4 TYPICAL DOOR FRAMING
SCALE: 3/8" = 1'-0"



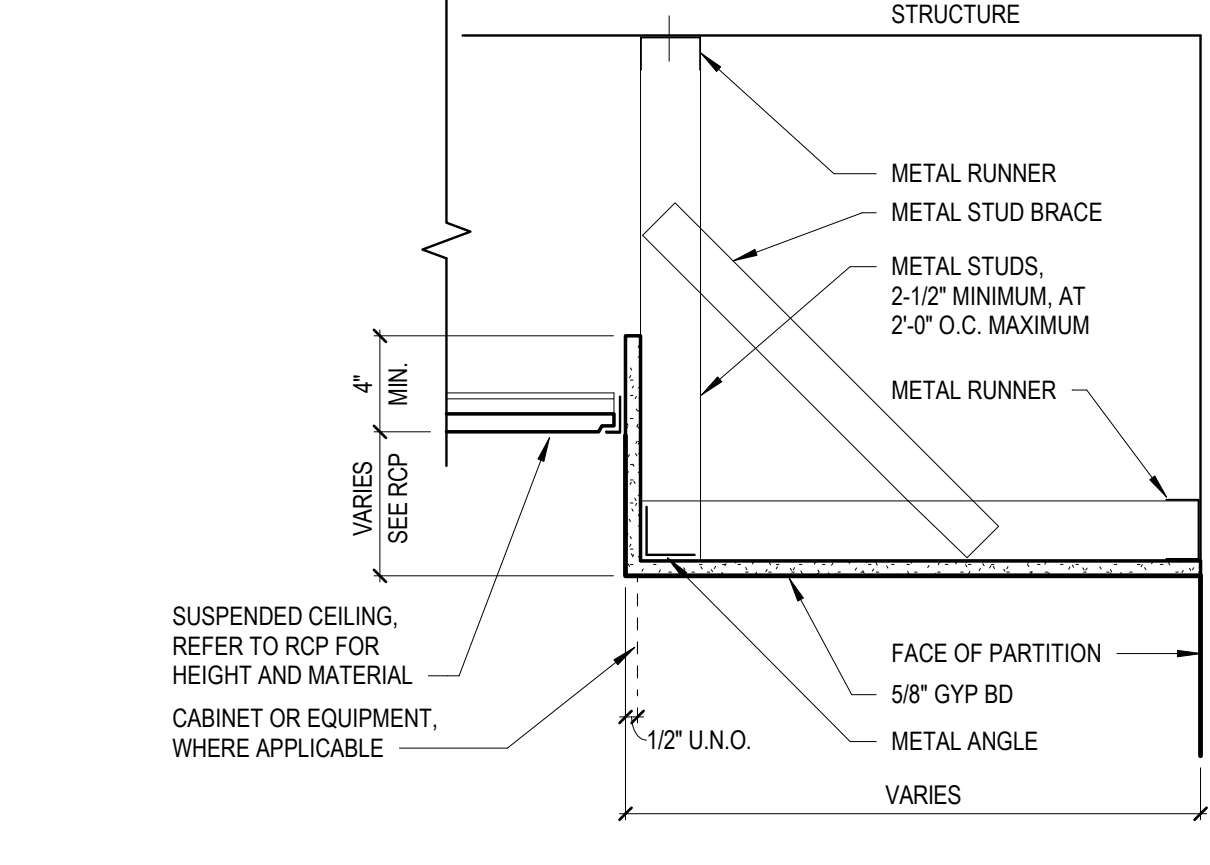
B1 HM FRAME HEAD AND JAMB DETAIL - DOOR
SCALE: 3/8" = 1'-0"



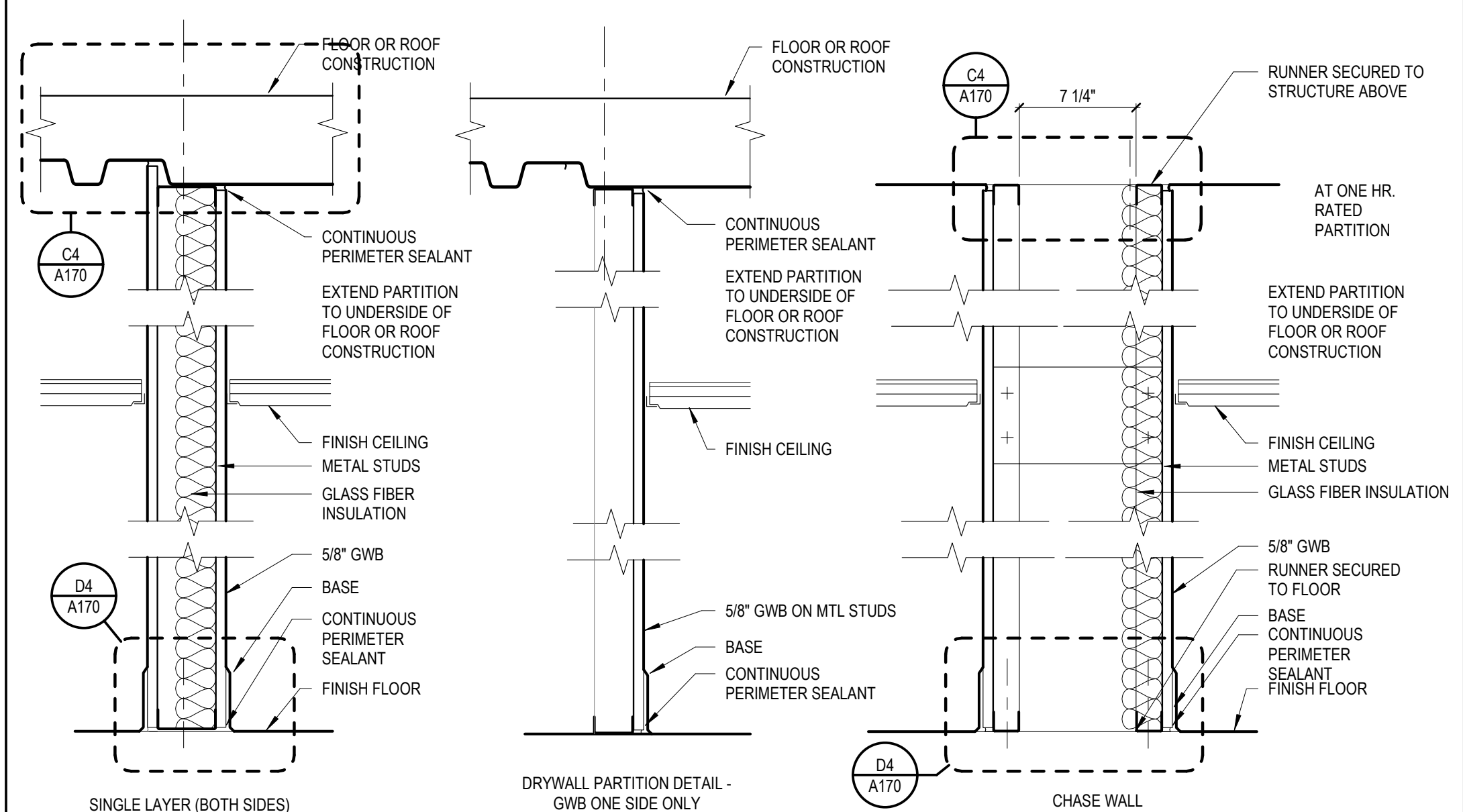
B2 HM FRAME - HEAD AND JAMB DETAIL - EXTERIOR DOOR
SCALE: 3/8" = 1'-0"



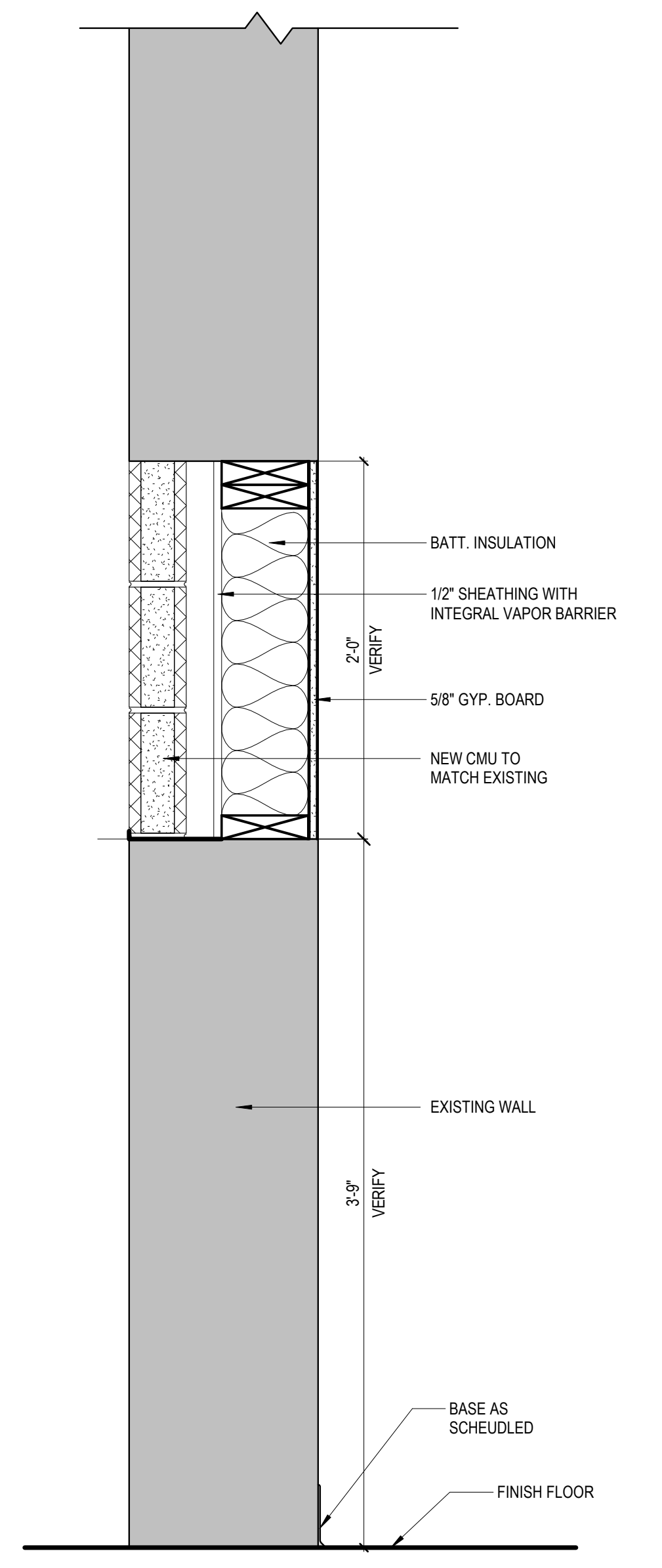
B3 GWB HEADER DETAIL
SCALE: 1 1/2" = 1'-0"



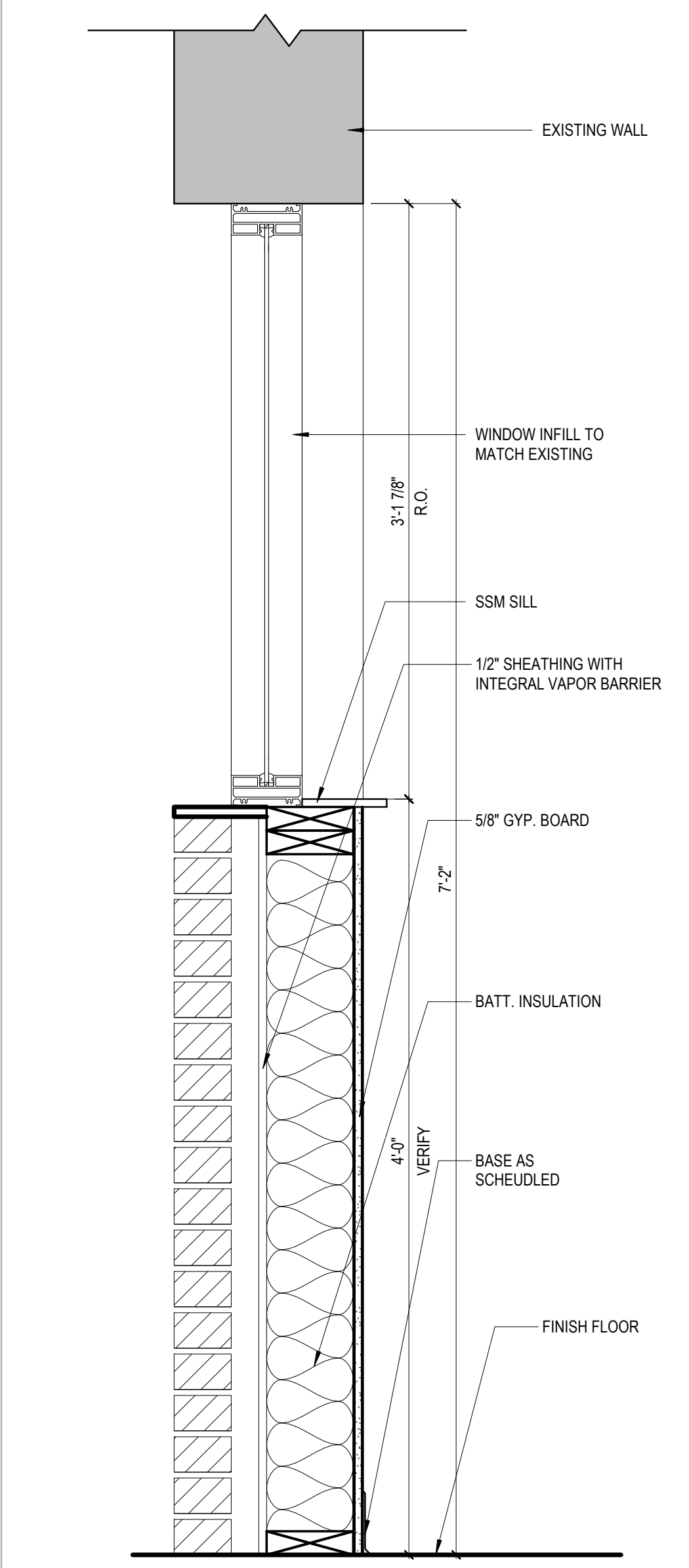
B4 GWB SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"



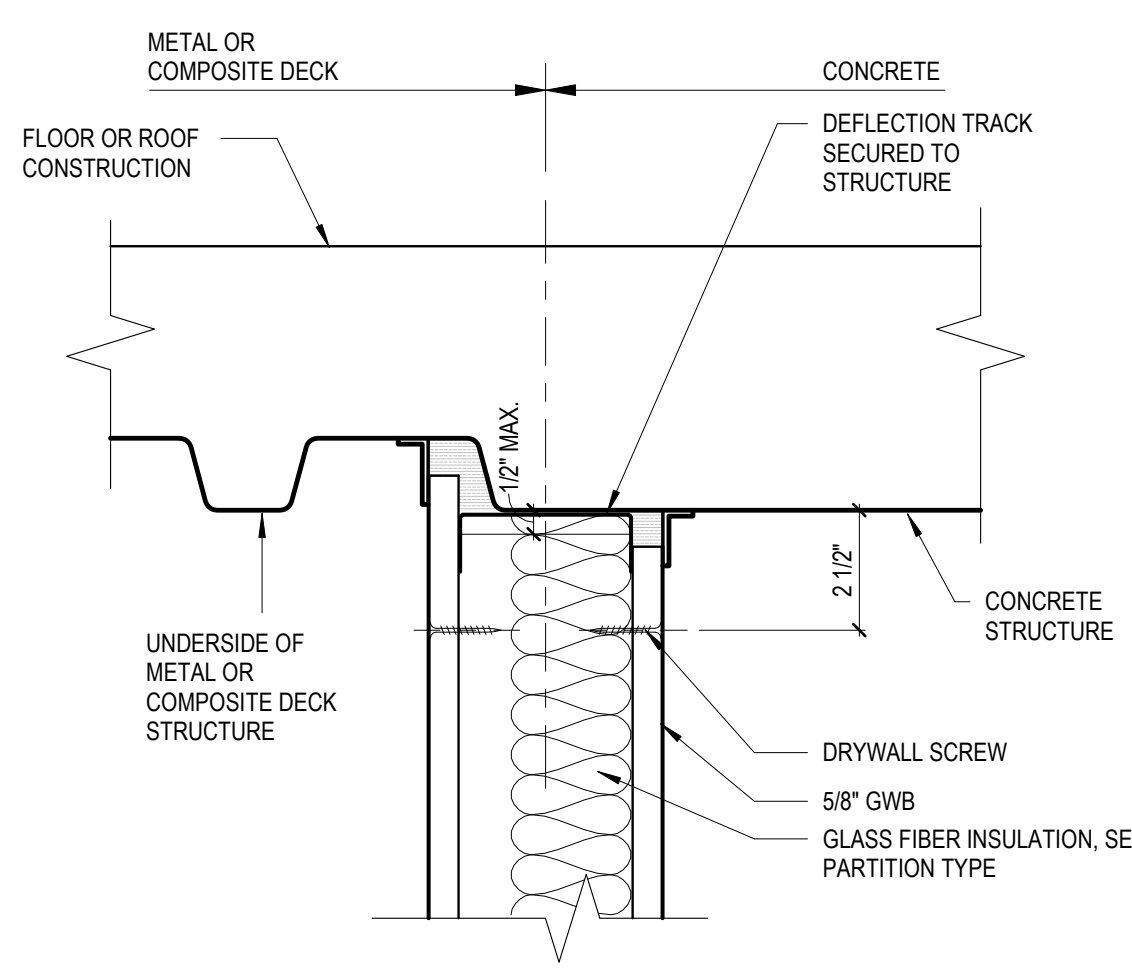
D1 PARTITION DETAILS
SCALE: 1 1/2" = 1'-0"



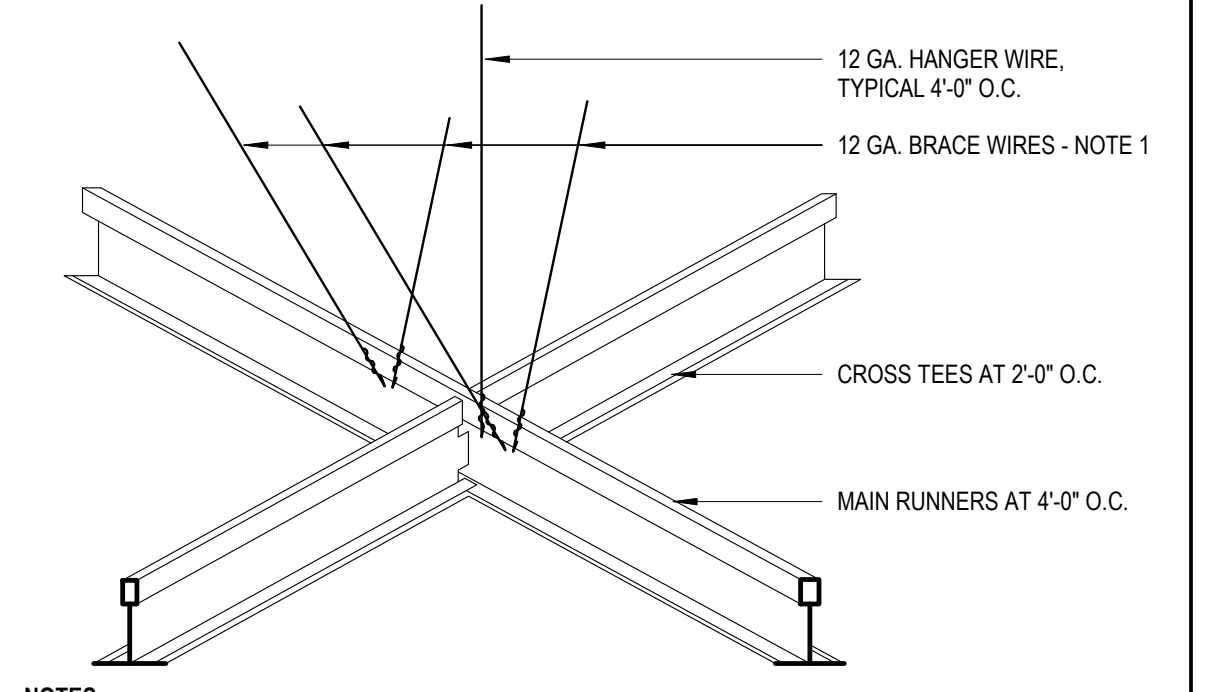
D2 EXTERIOR WINDOW INFILL
SCALE: 1 1/2" = 1'-0"



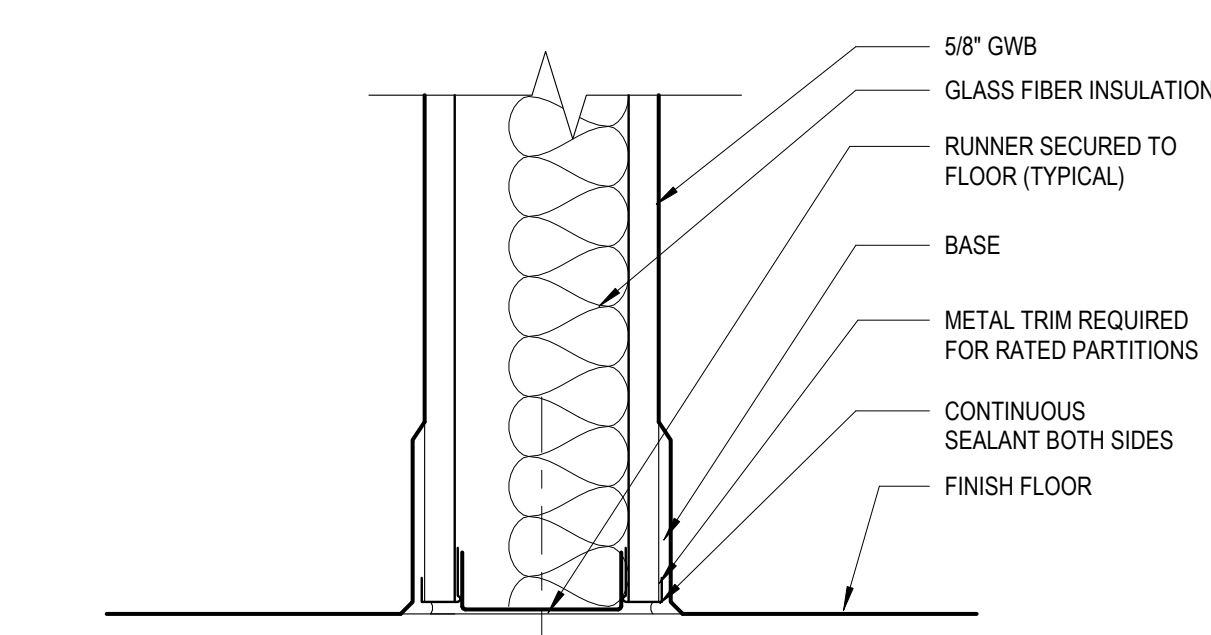
D3 EXTERIOR DOOR INFILL - ALTERNATE #2
SCALE: 1 1/2" = 1'-0"



C4 TOP OF PARTITION DETAIL
SCALE: 3/8" = 1'-0"



C5 SEISMIC BRACING DETAIL
SCALE: 1/4" = 1'-0"



D4 BOTTOM OF PARTITION DETAIL
SCALE: 3/8" = 1'-0"

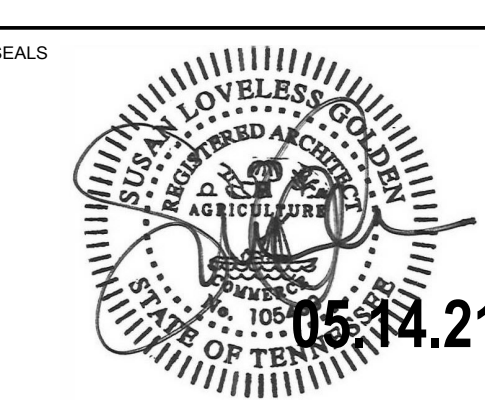
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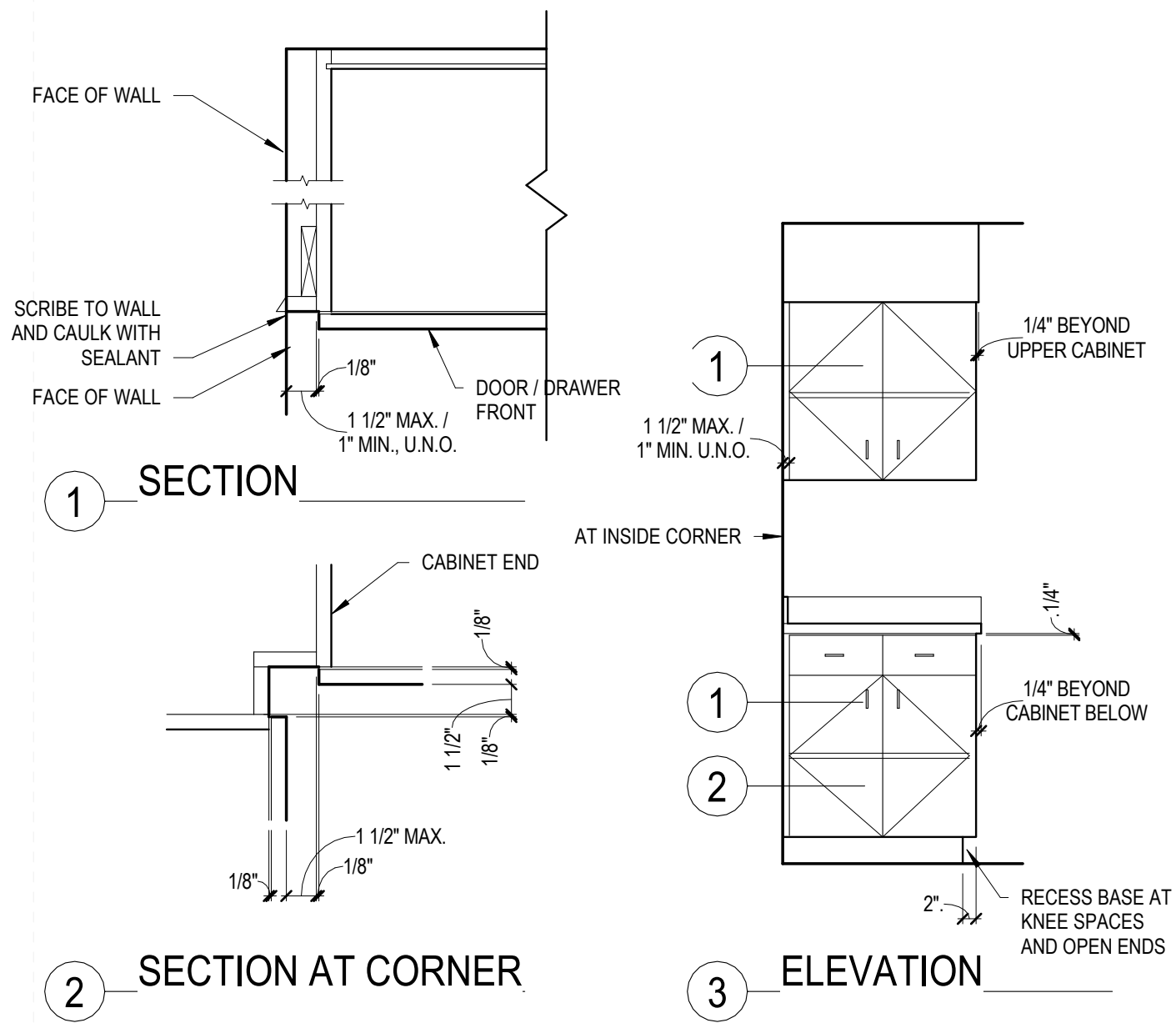
PROJECT NAME
**1364 N WATKINS
PACKAGE 1 -
RENOVATIONS**

Project No. 2020688
Date Issued 05.14.21
Drawing Scale As indicated
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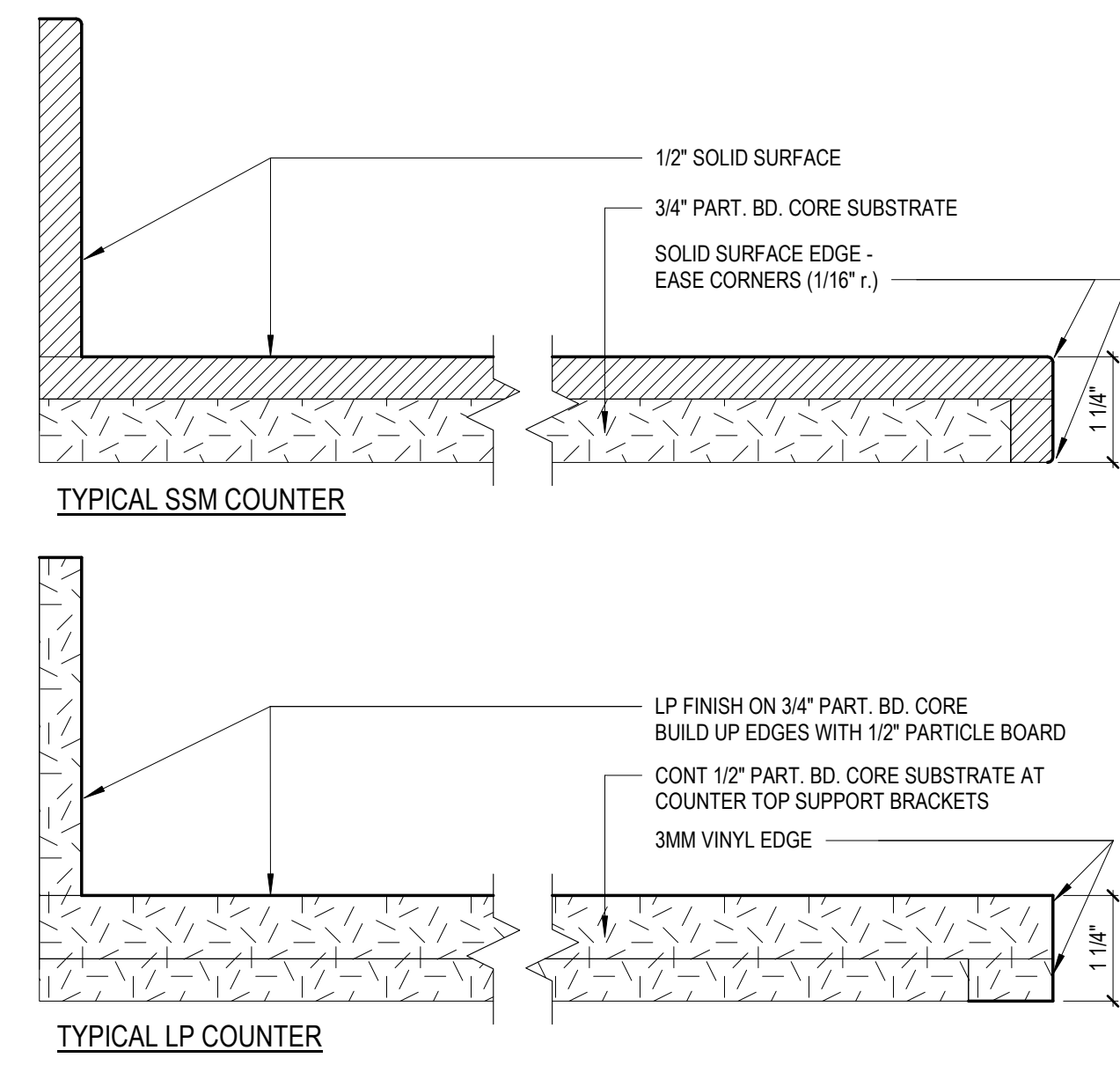
DRAWING TITLE
**DOOR SCHEDULE,
PARTITION TYPES
AND DETAILS**



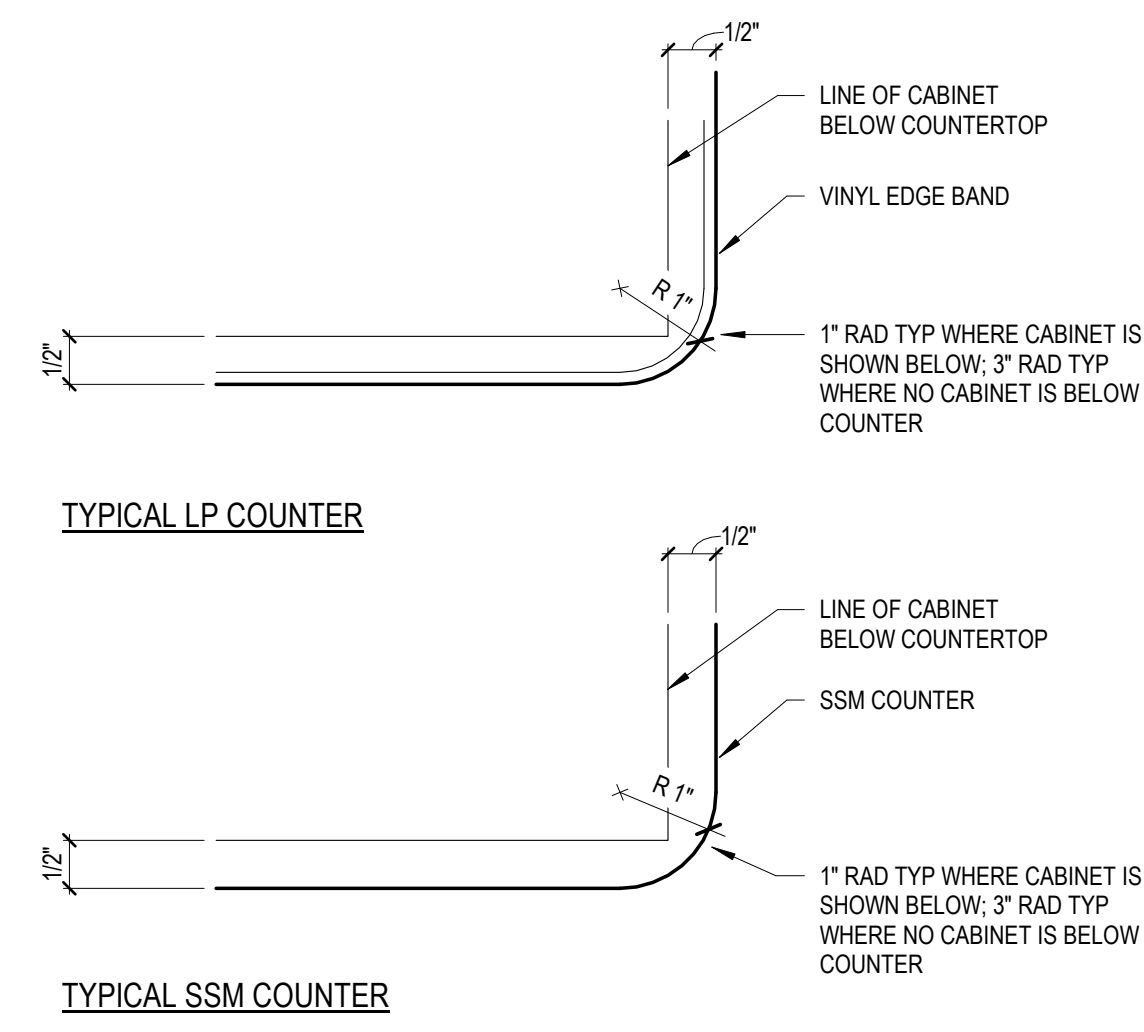
SHEET ID
**CONSTRUCTION DOCUMENTS
A170**



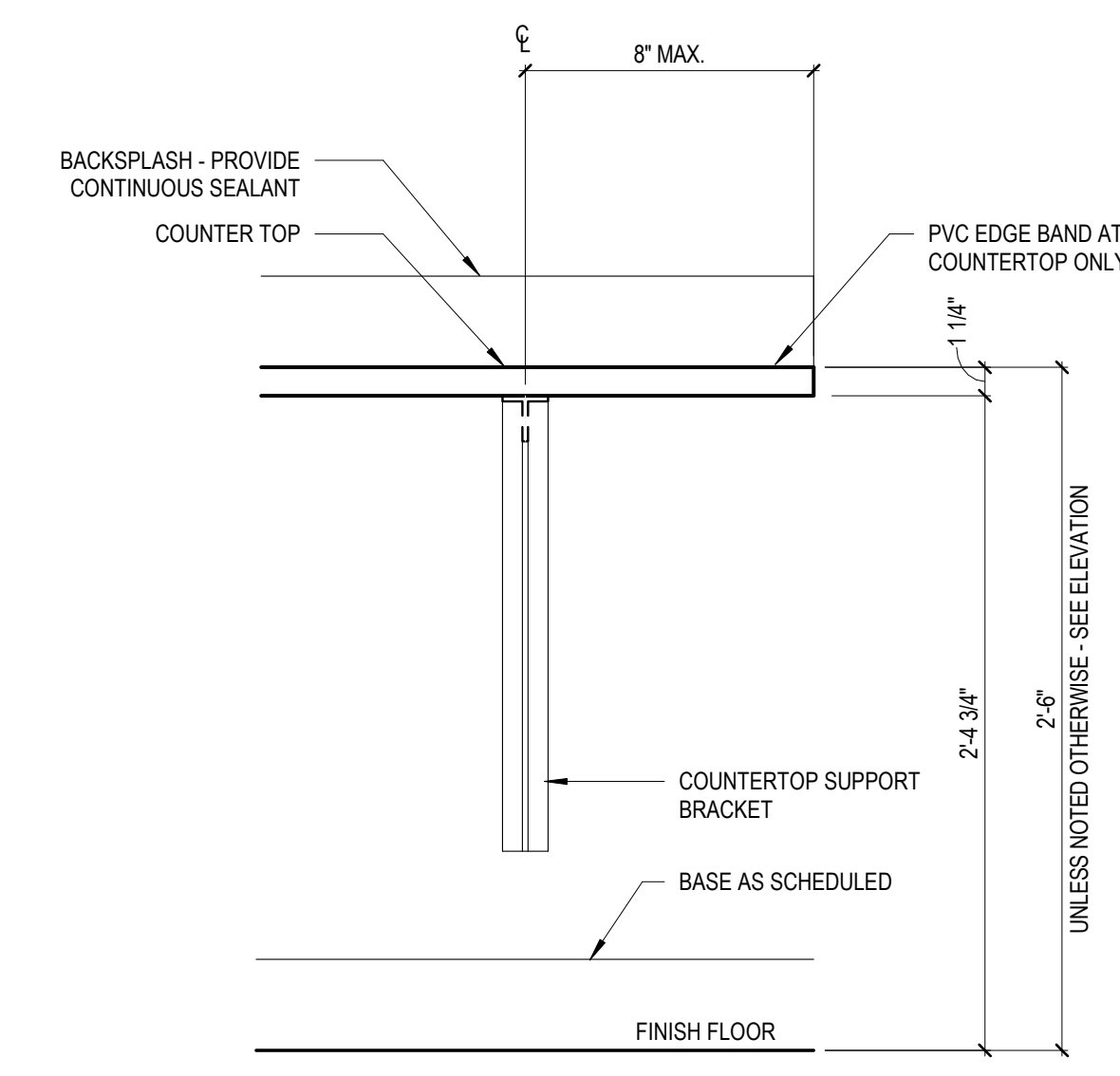
A1 TYPICAL - CASEWORK INSTALLATION DETAILS
SCALE: 1 1/2" = 1'-0"



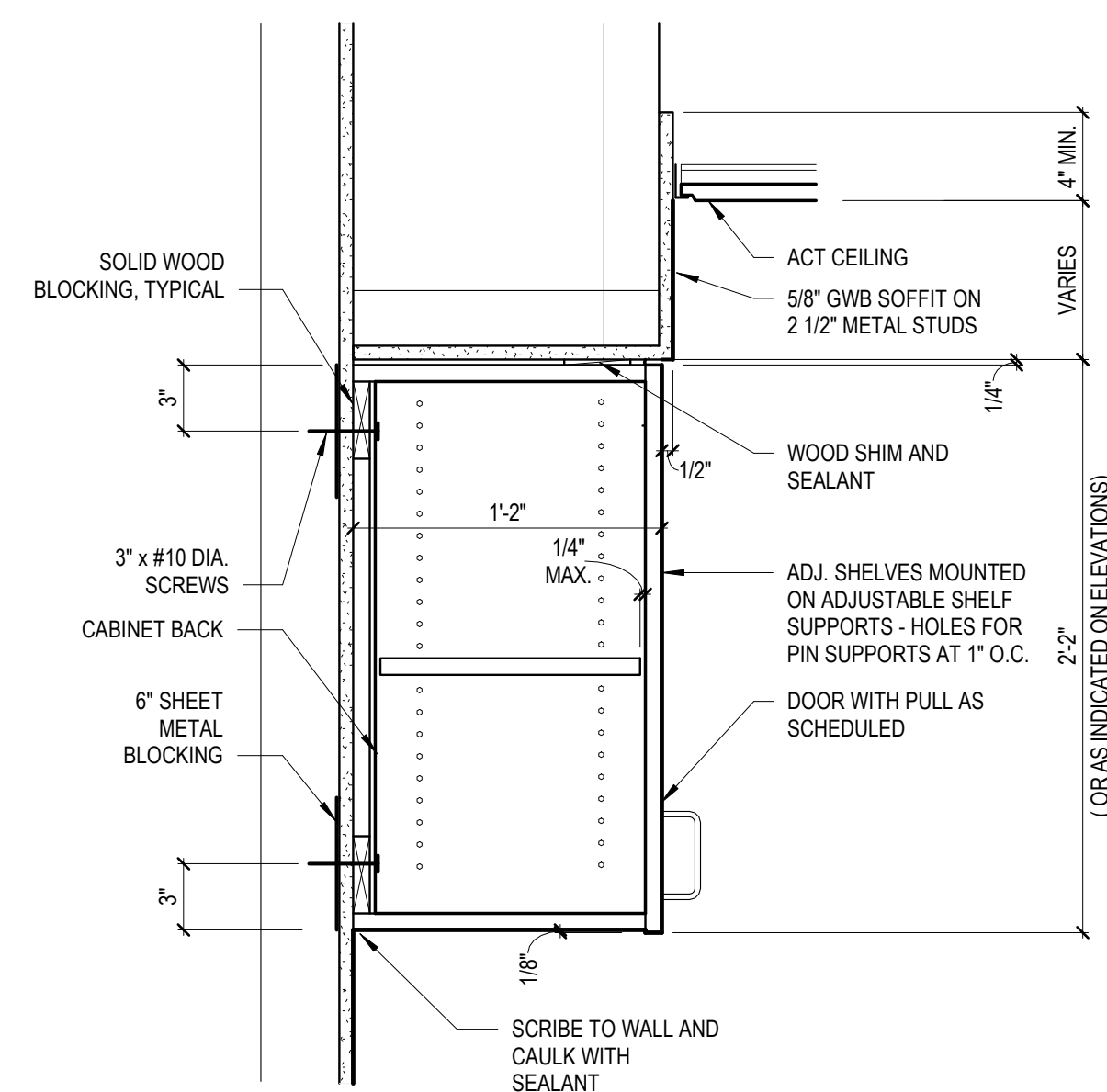
A2 TYPICAL - COUNTERTOP CONSTRUCTION
SCALE: 6" = 1'-0"



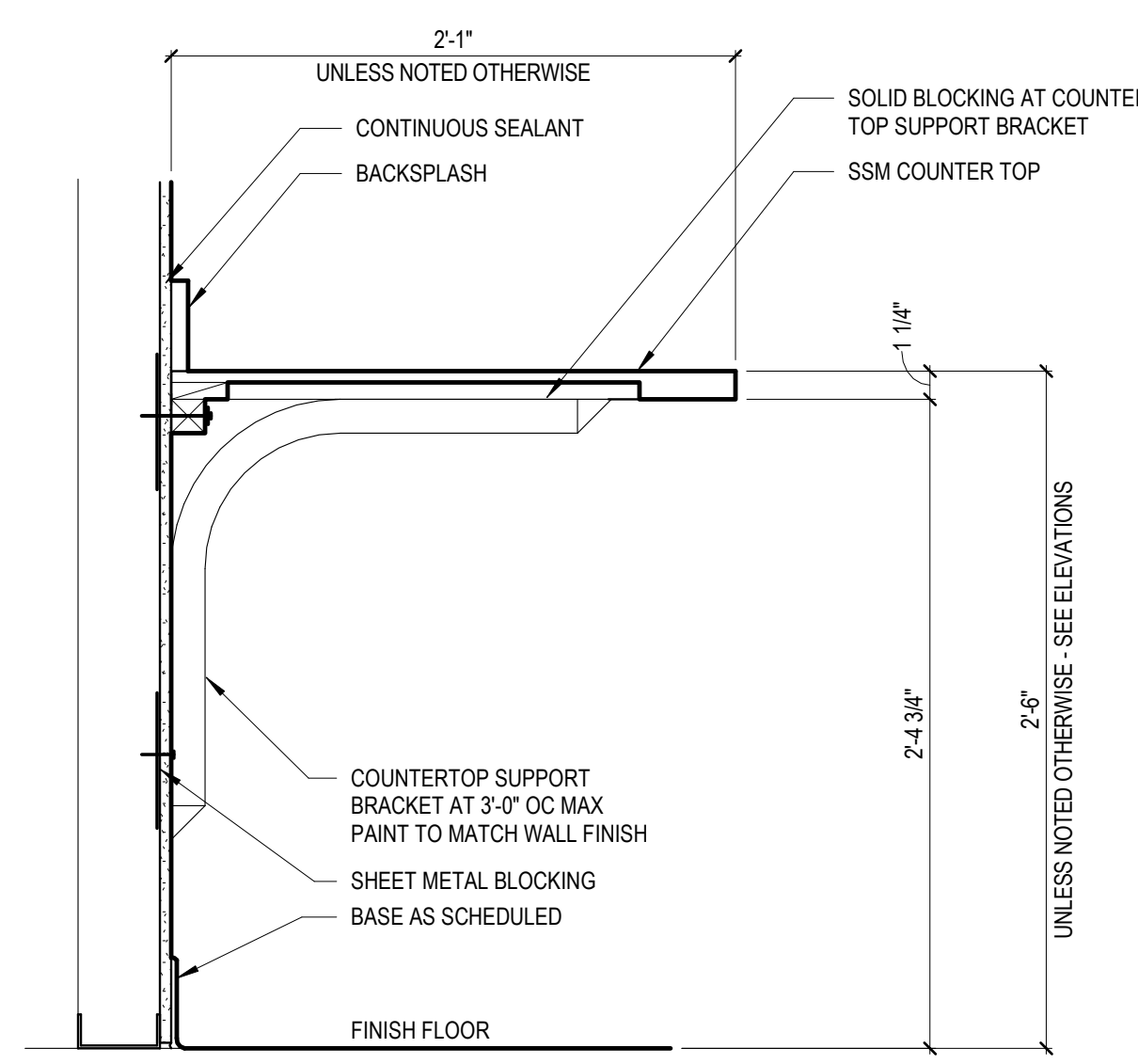
A3 TYPICAL - COUNTERTOP EDGE DETAILS
SCALE: 6" = 1'-0"



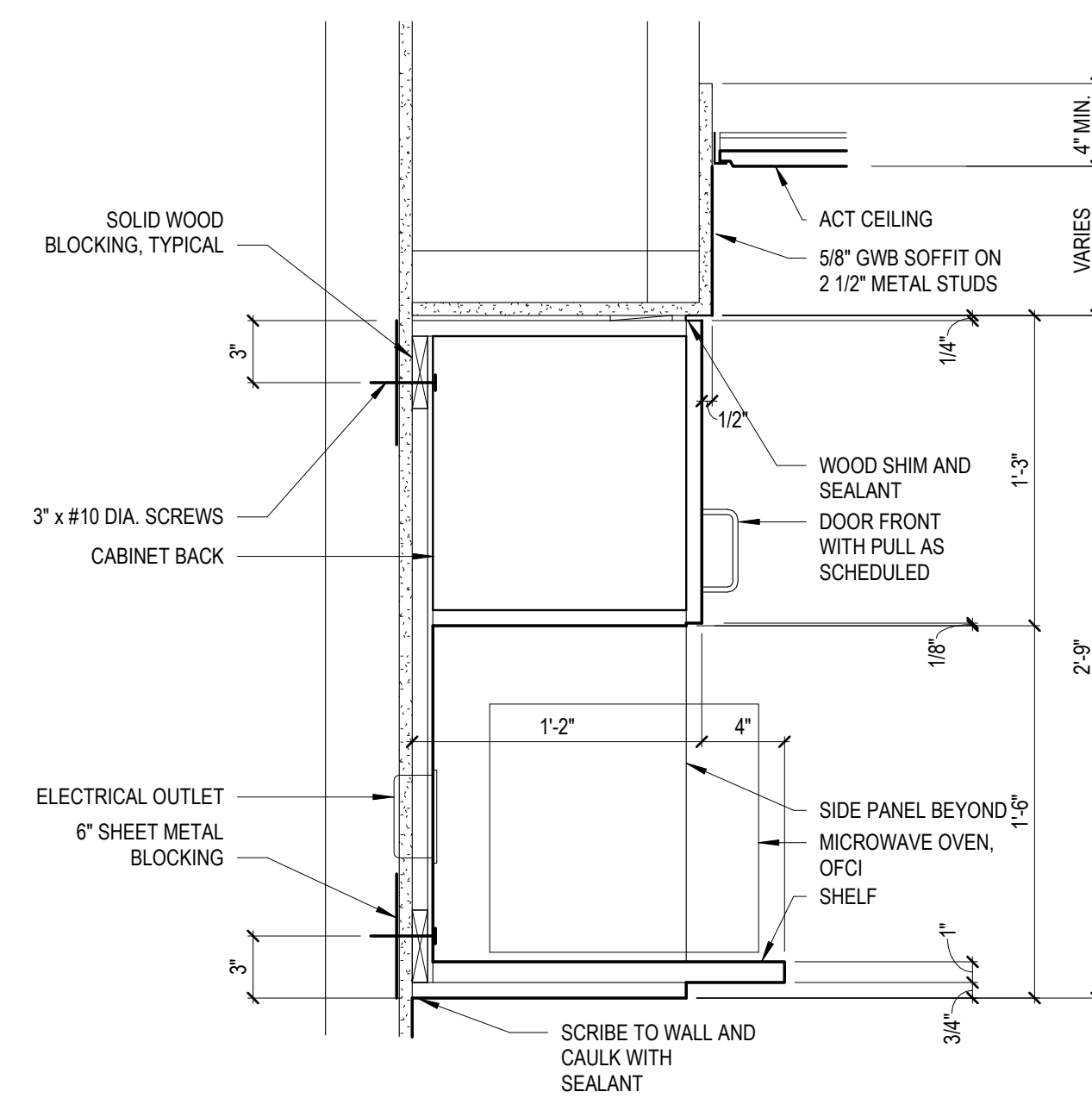
A4 TYPICAL - COUNTERTOP ELEVATION - OPEN END
SCALE: 1 1/2" = 1'-0"



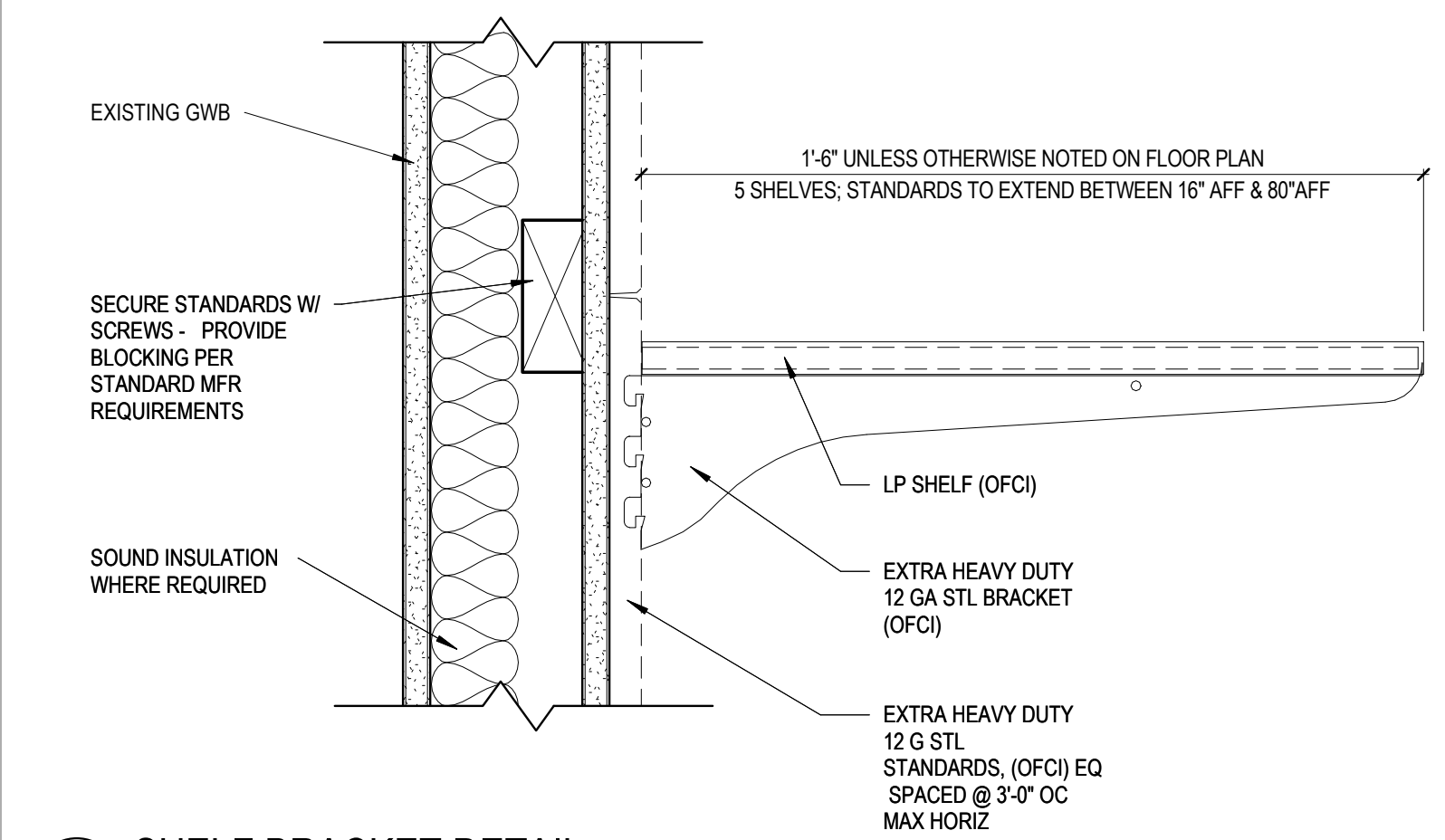
B1 WALL UNIT
SCALE: 1 1/2" = 1'-0"



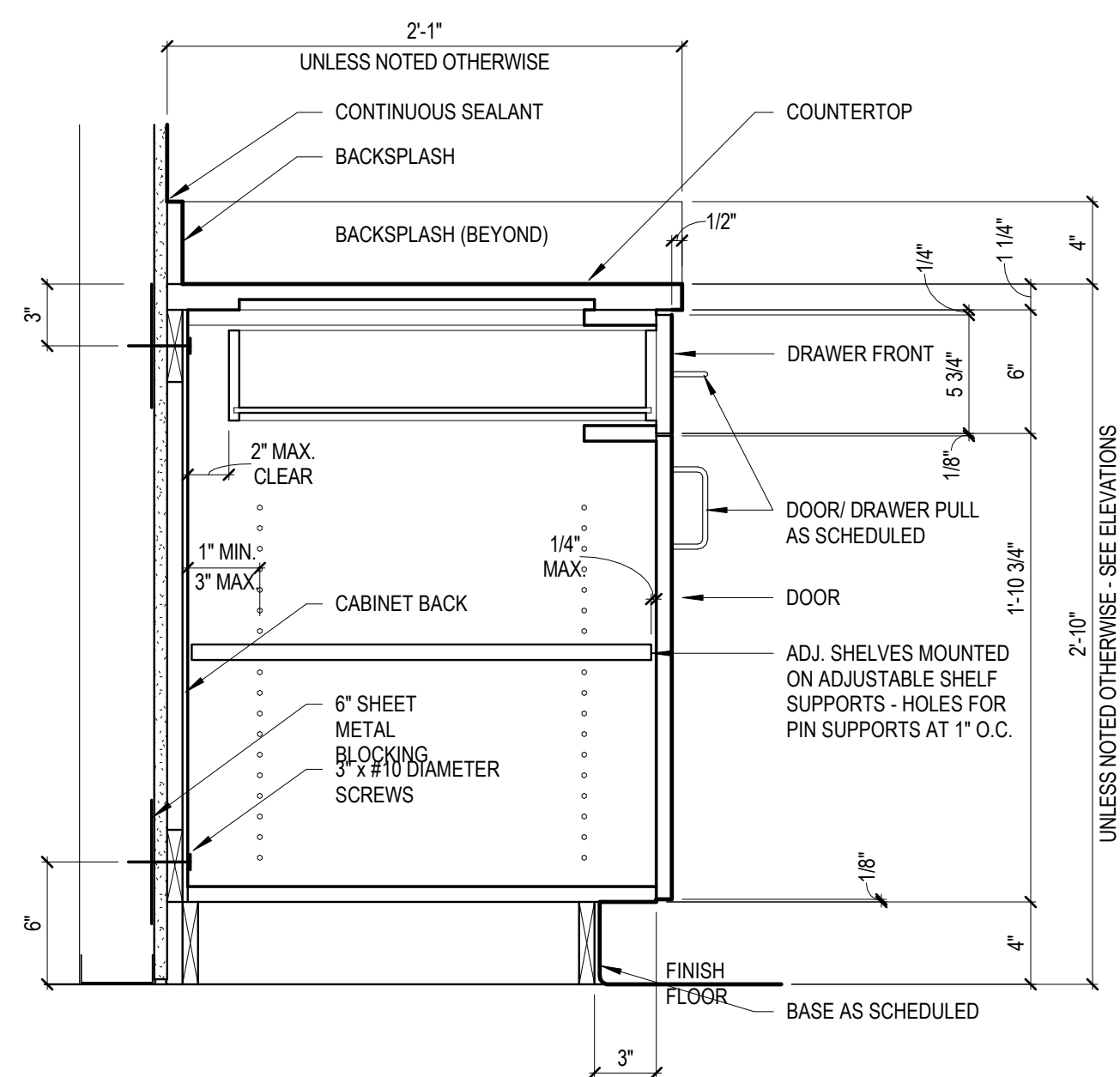
B2 COUNTERTOP - SUPPORT BRACKET
SCALE: 1 1/2" = 1'-0"



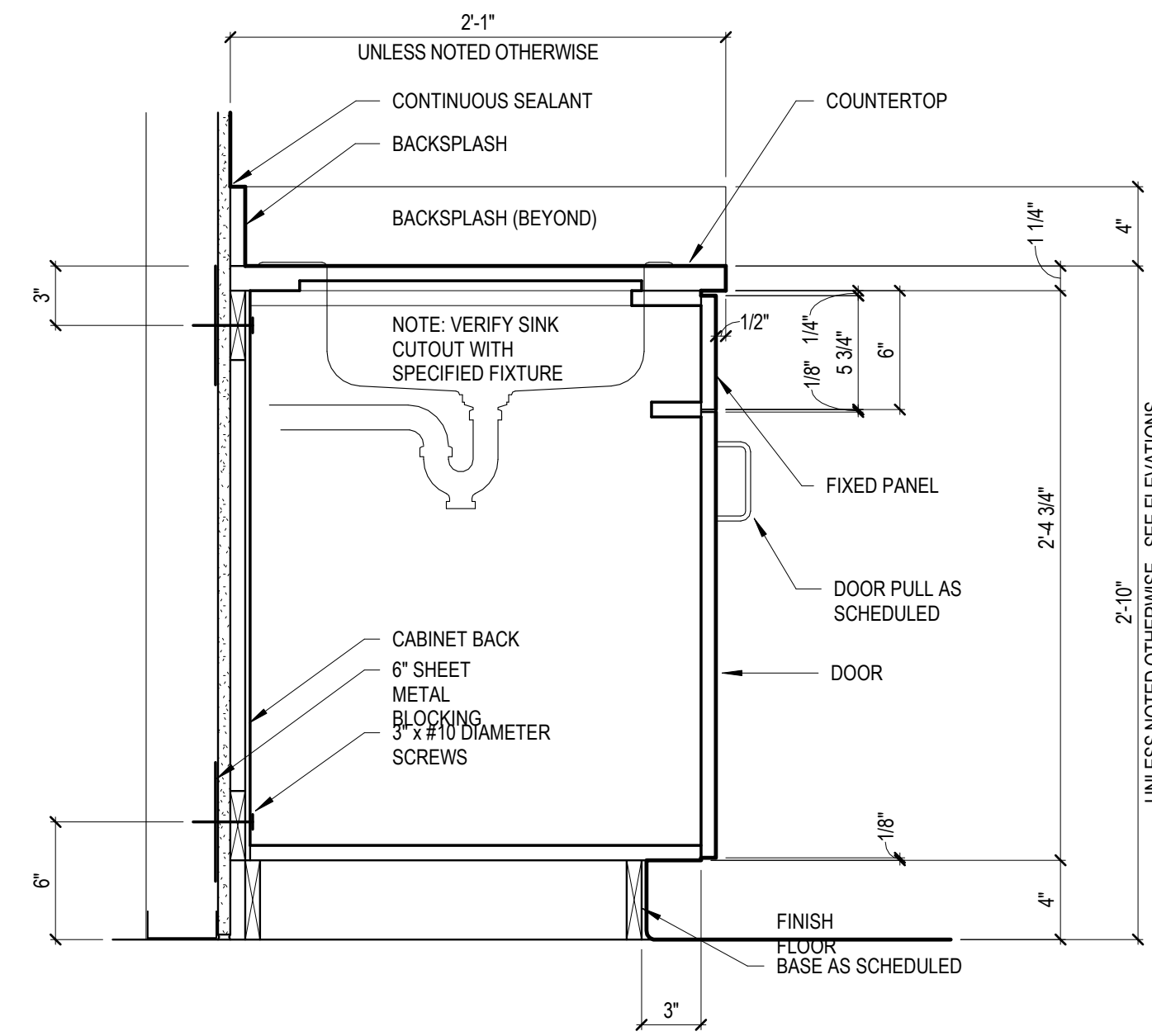
B3 WALL UNIT
SCALE: 1 1/2" = 1'-0"



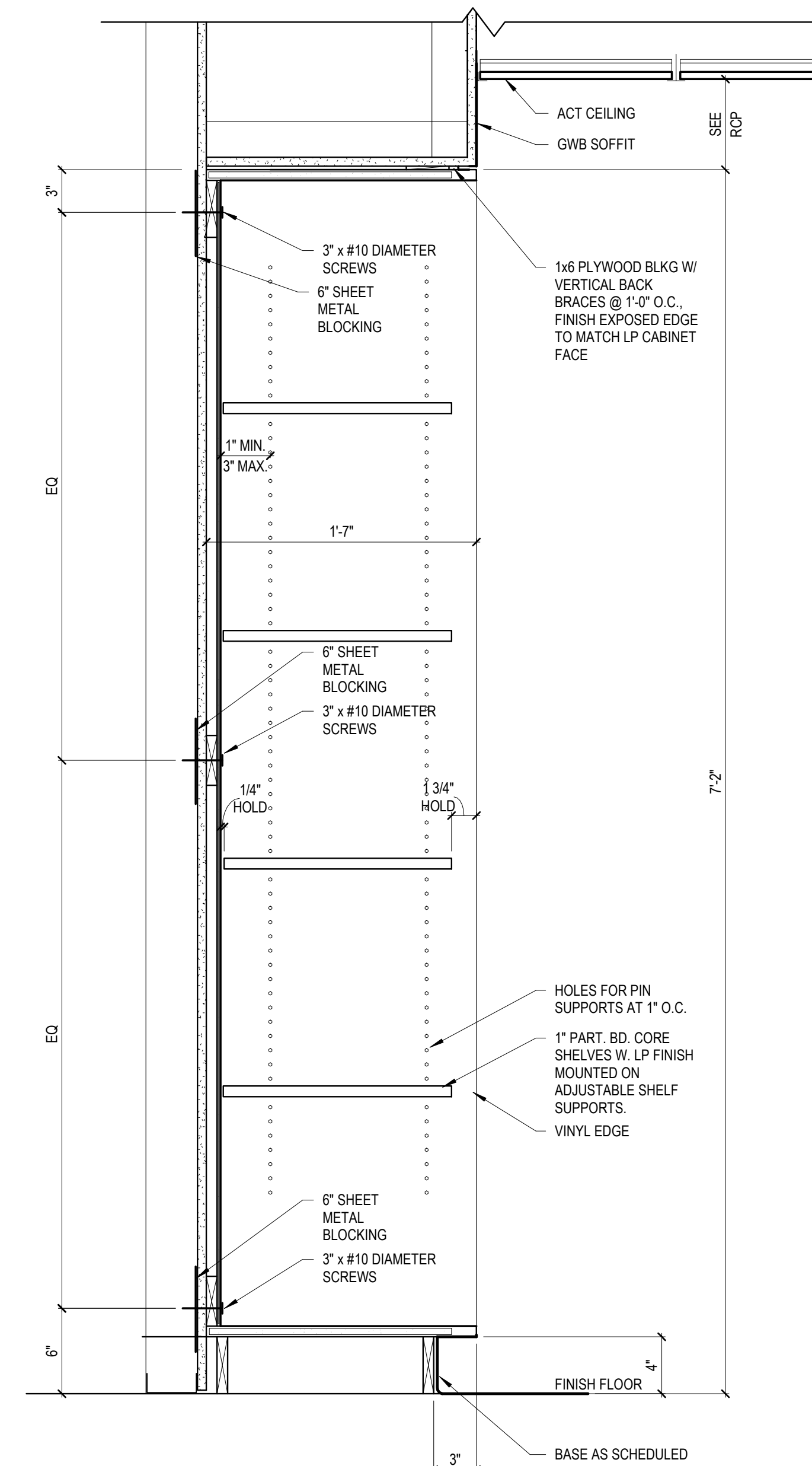
B4 SHELF BRACKET DETAIL
SCALE: 3" = 1'-0"



C1 BASE UNIT
SCALE: 1 1/2" = 1'-0"



C2 BASE UNIT - SINK
SCALE: 1 1/2" = 1'-0"



C4 FULL HEIGHT CABINET - SHELVING - NO DOOR - LP SOFFIT
SCALE: 1 1/2" = 1'-0"

REVISIONS	MARK	DATE	DESCRIPTION

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MATA
MEMPHIS AREA TRANSIT AUTHORITY
MATA HEADQUARTERS
1370 LEVEE RD,
MEMPHIS, TN. 38108

PROJECT NAME

**1364 N WATKINS
PACKAGE 1 -
RENOVATIONS**

Project No. 200908
Date Issued 05.14.21
Drawing Scale As indicated
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DRAWING TITLE

CASEWORK DETAILS

SEALS



SHEET ID

CONSTRUCTION DOCUMENTS

A180

FLOORCOVERING FINISH NOTES

GENERAL FLOORCOVERING NOTES:

- FLOORCOVERING MATERIALS ARE IDENTIFIED ON BOTH INTERIOR ROOM FINISH SCHEDULE & THE INTERIOR FLOOR FINISH PLAN(S). ON INTERIOR ROOM FINISH SCHEDULE & THE INTERIOR FLOOR FINISH PLAN(S) THE COMPLEXITY OF FINISHES/ MATERIALS IS CLARIFIED USING SYMBOL(S) LISTED BELOW.
- CONTRACTOR SHALL SUBMIT TO THIS OFFICE ACTUAL SAMPLES IN TRIPLICATE OF ALL COLORS, MATERIALS, STYLES & PATTERNS FOR DESIGNER'S VERIFICATION AND APPROVAL, NO LATER THAN TWO (2) WEEKS FROM DATE OF CONTRACT. SIZE OF SAMPLES SHALL BE APPROXIMATELY 12"X12". SAMPLES SHALL BE PROPERLY LABELED BY PROJECT AND CODE AND SUBMITTED FOR APPROVAL PRIOR TO CONTRACTOR ORDERING MATERIAL.

FLOORCOVERING SYMBOL LEGEND:

- CARPET DISTRIBUTION SYMBOL - MATERIAL CODE
- RESILIENT TILE FLOORING DISTRIBUTION SYMBOL - MATERIAL CODE
- RESILIENT SHEET FLOORING DISTRIBUTION SYMBOL - MATERIAL CODE
- REDUCER/TRANSITION STRIP (NOTE: NOT ALL SHOWN)
- PORCELAIN TILE DISTRIBUTION SYMBOL - PORCELAIN TILE COLOR CODE
- POLY RESIN DISTRIBUTION SYMBOL - POLY RESIN COLOR CODE

1. RESILIENT TILE FLOORING:
LVT - LUXURY VINYL TILE
 SPECIAL INSTRUCTIONS: 1/3 OFFSET
 AREAS DESIGNATED AS LVT SHALL RECEIVE: ARMSTRONG, NATURAL CREATIONS DIAMOND 10 TECHNOLOGY ARBOR ART, SIZE: 4' X 36", COLOR NAME: AVILA OAK MOROCCAN SAND

2. PORCELAIN TILE FLOORING:
PT - PORCELAIN TILE FLOORING
 SPECIAL INSTRUCTIONS: NONE
 AREAS DESIGNATED AS PT SHALL RECEIVE:
 TRINITY TILE, EXPOSURE, SIZE: 12" X 24", COLOR NAME: ARENA, FINISH: MATTE
 GROUT JOINT SIZE: 1/8, GROUT MANUFACTURER: MAPEI, GROUT COLOR: WARM GRAY, #93

3. BASE:
RUB - RUBBER BASE
 AREAS DESIGNATED AS RUB SHALL RECEIVE: JOHNSONITE, 4" COVE BASE, COLOR: CLAY, COLOR#: 09

TB - TILE BASE
 AREAS DESIGNATED AS TB SHALL RECEIVE: 4" TILE BASE, SEE INTERIOR FINISH SCHEDULE AND/OR INTERIOR FINISH PLAN(S) FOR COORDINATING MATERIAL.

4. TRANSITION STRIPS:
 SPECIAL INSTRUCTIONS: ALL TRANSITIONS IN DOORWAYS SHALL OCCUR AT THE CENTERLINE OF DOOR UNLESS SHOWN OTHERWISE. ALL FLOOR TRANSITIONS TO BE LEVEL AND FLUSH. NOT ALL FLOORING TRANSITIONS SHOWN ON PLAN
 TRANSITIONS BETWEEN PT AND LVT SHALL BE: SCHLUTER SYSTEM, RENO-TK, COLOR: BRUSHED STAINLESS STEEL.

CASEWORK FINISH NOTES

GENERAL CASEWORK NOTES:

- CONTRACTOR SHALL SUBMIT TO THIS OFFICE ACTUAL SAMPLES IN TRIPLICATE OF ALL COLORS, MATERIALS, STYLES & PATTERNS FOR DESIGNER'S VERIFICATION AND APPROVAL, NO LATER THAN TWO (2) WEEKS FROM DATE OF CONTRACT. SIZE OF SAMPLES SHALL BE APPROXIMATELY 12"X12". SAMPLES SHALL BE PROPERLY LABELED BY PROJECT AND CODE AND SUBMITTED FOR APPROVAL PRIOR TO CONTRACTOR ORDERING MATERIAL.

1. LAMINATED PLASTIC:
LP - LAMINATED PLASTIC
 CASEWORK DESIGNATED AS LP, (VERTICAL & HORIZONTAL SURFACES), SHALL RECEIVE MATERIAL AS SHOWN BELOW UNLESS DESIGNATED IN ELEVATIONS AND/OR SPECIALTY CASEWORK SCHEDULE TO RECEIVE ANOTHER LP SELECTION AS LISTED IN 'ADDITIONAL LP COLOR CODES' BELOW.
VERTICAL SURFACES:
 FORMICA, WHITE DROPS, #8824, FINISH: MATTE

2. SOLID SURFACE:
SSM - SOLID SURFACE MATERIAL
 CASEWORK DESIGNATED AS SSM SHALL RECEIVE MATERIAL AS SHOWN BELOW UNLESS DESIGNATED IN ELEVATIONS AND/OR SPECIALTY CASEWORK SCHEDULE TO RECEIVE ANOTHER SSM SELECTION/FINISH AS LISTED IN 'ADDITIONAL SSM COLOR CODES' BELOW.
 CASEWORK DESIGNATED TO RECEIVE SSM SHALL RECEIVE:
 DURASEIN, COLOR: ODYSSEY

MISCELLANEOUS FINISH NOTES

- WINDOW TREATMENTS SHALL BE MATCH EXISTING
- ALL WINDOW SILLS SHALL BE: DURASEIN, COLOR: ODYSSEY
- ALL COUNTER SUPPORT BRACKETS TO BE PTD TO MATCH WALL (MAKE SURE OUR SPECS MATCH!)
- INTERIOR SOFFITS DESIGNATED AS PTD SHALL BE PAINTED TO MATCH ADJACENT FASCIA, UNLESS NOTED OTHERWISE
- INTERIOR FASCIAS DESIGNATED AS PTD SHALL MATCH ADJACENT WALL, UNLESS NOTED OTHERWISE
- INTERIOR GWB CEILING DESIGNATED AS PTD SHALL BE CEILING WHITE, UNLESS NOTED OTHERWISE
- INTERIOR DOORS DESIGNATED AS VTL SHALL BE FINISHED TO MATCH TYPICAL VERTICAL SURFACE LAMINATE
- INTERIOR DOORS DESIGNATED AS PTD SHALL BE SEMI-GLOSS FINISH, COLOR TO MATCH ADJACENT WALL, U.N.O.
- INTERIOR DOOR FRAMES TO BE SHERWIN-WILLIAMS, COLOR: CANVAS TAN, COLOR#: SW 7531, SEMI-GLOSS FINISH.
- GWB REVEAL WILL BE REQUIRED WHERE ANY ACCENT WALL PAINT DOES NOT TERMINATE AT WALL CORNER.
- ALL HVAC REGISTERS AND GRILLS, ELECTRICAL PANELS, ACCESS PANELS, ELECTRICAL OUTLET STRIPS, AND FIRE EXTINGUISHER CABINETS SHALL BE FIELD PAINTED TO MATCH ADJACENT WALL OR CEILING FINISH.

N. WATKINS INTERIOR ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
W100	CORR.	LVT	RUB	PTD	ACT	
W101	OFFICE	LVT	RUB	PTD	ACT	
W102	OFFICE	LVT	RUB	PTD	ACT	
W103	OFFICE	LVT	RUB	PTD	ACT	
W104	IT	LVT	RUB	PTD	ACT	
W105	COPY/MAIL	LVT	RUB	PTD	ACT	
W106	TLT	PT	TB	PTD/PT	ACT	
W107	BREAK ROOM	LVT	RUB	PTD	ACT	
W108	TLT	PT	TB	PTD/PT	ACT	
W109	JC.	PT	TB	PTD	ACT	
W110	CORR.	LVT	RUB	PTD	ACT	
W111	CONF. ROOM	LVT	RUB	PTD	ACT	
W112	OFFICE	LVT	RUB	PTD	ACT	
W113	OFFICE	LVT	RUB	PTD	ACT	
W114	FILES	LVT	RUB	PTD	ACT	
W115	OFFICE	LVT	RUB	PTD	ACT	
W117	OFFICE	LVT	RUB	PTD	ACT	
W200	FILE	LVT	RUB	PTD	ACT	

WALLCOVERING FINISH NOTES

GENERAL WALLCOVERING NOTES:

- WALL FINISH MATERIALS ARE IDENTIFIED ON BOTH INTERIOR ROOM FINISH SCHEDULE & THE INTERIOR WALL FINISH PLAN(S). ON INTERIOR ROOM FINISH SCHEDULE & THE INTERIOR WALL FINISH PLAN(S) THE COMPLEXITY OF FINISHES/ MATERIALS IS CLARIFIED USING SYMBOL(S) LISTED BELOW.
- CONTRACTOR SHALL SUBMIT TO THIS OFFICE ACTUAL SAMPLES IN TRIPLICATE OF ALL COLORS, MATERIALS, STYLES & PATTERNS FOR DESIGNER'S VERIFICATION AND APPROVAL, NO LATER THAN TWO (2) WEEKS FROM DATE OF CONTRACT. SIZE OF SAMPLES SHALL BE APPROXIMATELY 12"X12". SAMPLES SHALL BE PROPERLY LABELED BY PROJECT AND CODE AND SUBMITTED FOR APPROVAL PRIOR TO CONTRACTOR ORDERING MATERIAL.

WALL FINISH SYMBOL LEGEND:

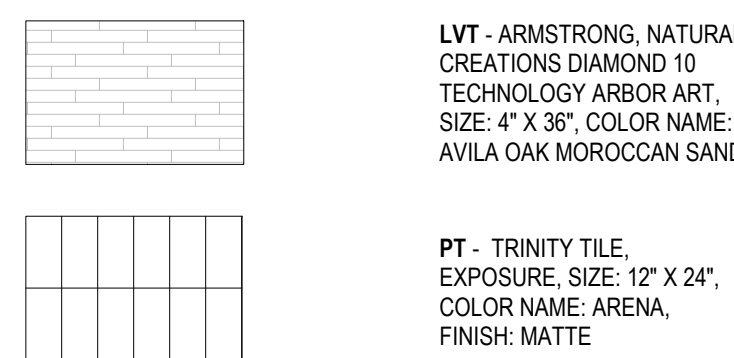
- PAINT DISTRIBUTION SYMBOL - PAINT COLOR CODE
- PORCELAIN TILE DISTRIBUTION SYMBOL - PORCELAIN TILE COLOR CODE
- DENOTES COLOR ON ALL WALLS OF ROOM
- DENOTES EXTENT OF COLOR/MATERIAL
- DENOTES COLOR/MATERIAL ABOVE
- DENOTES COLOR/MATERIAL BELOW

1. PAINT:
PTD - PAINT
 SPECIAL INSTRUCTIONS: NONE
 AREAS DESIGNATED AS PTD SHALL RECEIVE: SHERWIN-WILLIAM, COLOR: CREAMY, COLOR #: SW7012, FINISH: MATTE

EPXY - EPOXY PAINT
 SPECIAL INSTRUCTIONS: ALL RESTROOM WALLS TO RECEIVE EPOXY FINISH, U.N.O.
 AREAS DESIGNATED AS EPXY SHALL RECEIVE: MANUFACTURER, COLOR AS DESIGNATED ON INTERIOR FINISH SCHEDULE OR INTERIOR FINISH PLAN(S), FINISH: EPOXY

2. WALL TILE:
PT - PORCELAIN TILE
 SPECIAL INSTRUCTIONS: NONE
 AREAS DESIGNATED AS PT SHALL RECEIVE:
 TRINITY TILE, EXPOSURE, SIZE: 12" X 24", COLOR NAME: ARENA, FINISH: MATTE
 GROUT JOINT SIZE: 1/8, GROUT MANUFACTURER: MAPEI, GROUT COLOR: WARM GRAY, #93

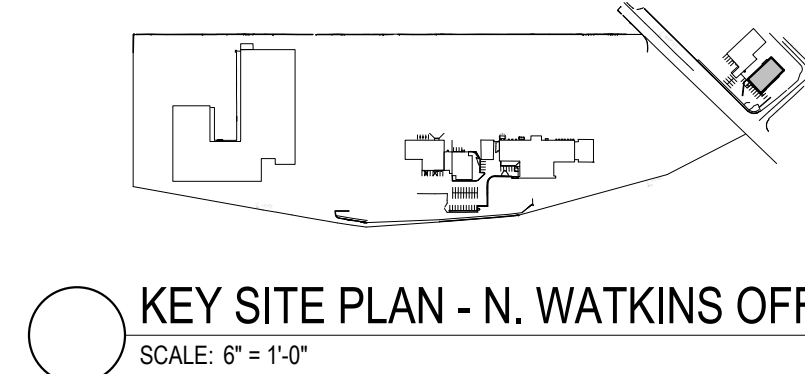
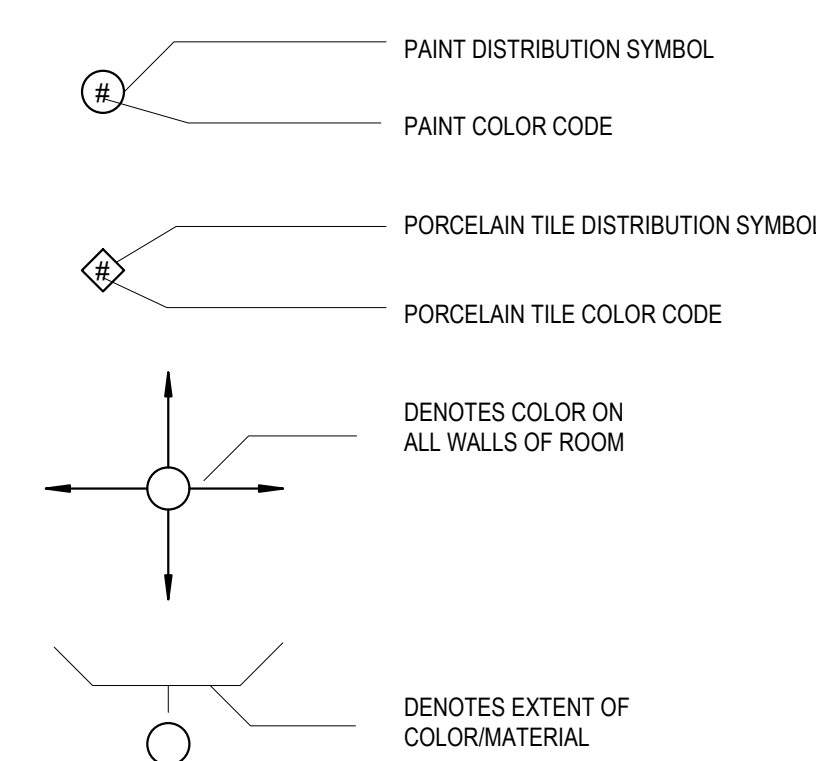
FLOOR FINISH LEGEND



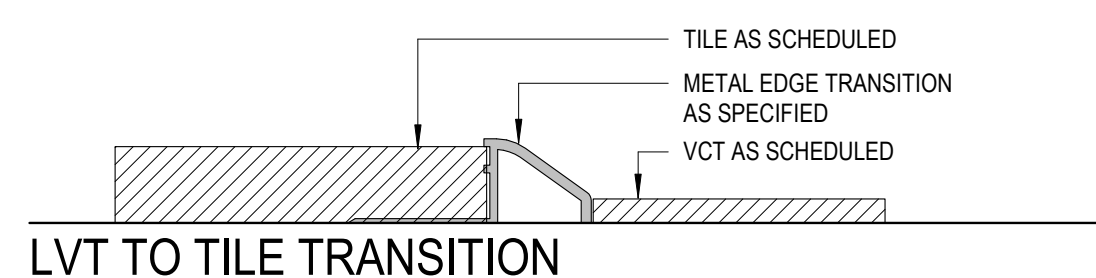
LVT - ARMSTRONG, NATURAL CREATIONS DIAMOND 10 TECHNOLOGY ARBOR ART, SIZE: 4' X 36", COLOR NAME: AVILA OAK MOROCCAN SAND

PT - TRINITY TILE, EXPOSURE, SIZE: 12" X 24", COLOR NAME: ARENA, FINISH: MATTE

WALL FINISH LEGEND



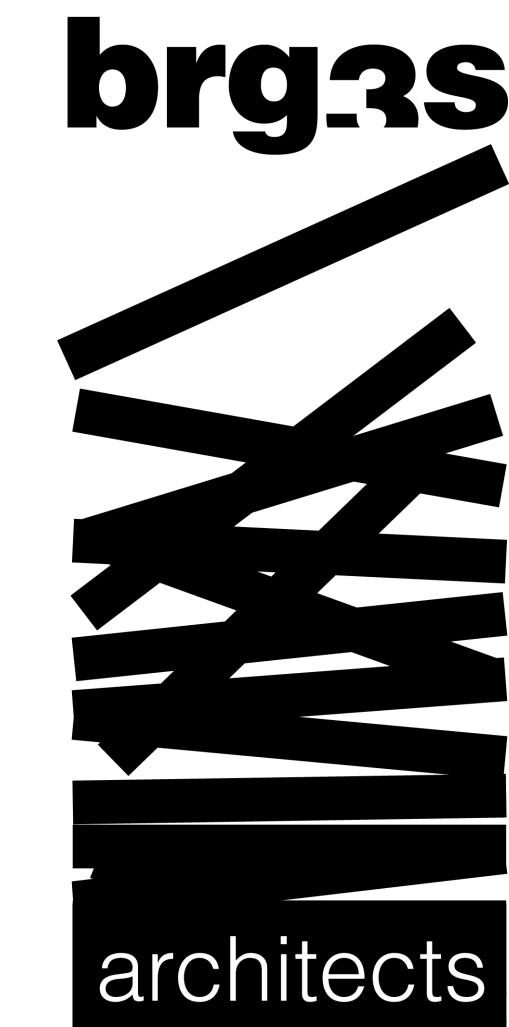
KEY SITE PLAN - N. WATKINS OFFICE
 SCALE: 6" = 1'-0"



B1 FINISH FLOOR - TRANSITIONS



D2 FLOOR FINISH PLAN
 SCALE: 1/4" = 1'-0"



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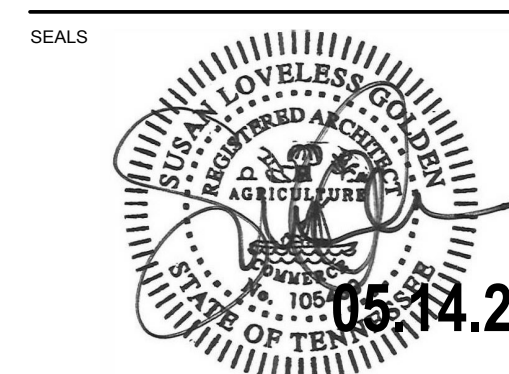
MARK	DATE	DESCRIPTION
REVISIONS		
CLIENT		

MATA
 MEMPHIS AREA TRANSIT AUTHORITY
 MATA HEADQUARTERS
 1370 LEVEE RD,
 MEMPHIS, TN. 38108

PROJECT NAME
**1364 N WATKINS
 PACKAGE 1 -
 RENOVATIONS**

Project No. 2020908
 Date Issued 05.14.21
 Drawing Scale As indicated
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DRAWING TITLE
**INTERIOR FINISH
 INDEX, SCHEDULE &
 PLAN**



SHEET ID
CONSTRUCTION DOCUMENTS

ID001

AIR DISTRIBUTION DEVICE SCHEDULE

GENERAL NOTES: 1. PROVIDE MOUNTING STYLE BASED ON CEILING TYPE INDICATED ON THE REFLECTED CEILING PLANS. 2. ALL AIR DISTRIBUTION DEVICES SHALL HAVE A MAXIMUM NC RATING OF Z5. 3. IN AREAS WITH LAY-IN CEILINGS, PROVIDE LISTED PANEL SIZE. 4. IN AREAS WITH HARD CEILINGS, PROVIDE SURFACE MOUNTED TYPE AIR DISTRIBUTION DEVICE AT LISTED FACE SIZE WITHOUT PANEL. 5. ALL AIR DEVICES LOCATED IN INACCESSIBLE HARD CEILINGS SHALL BE PROVIDED WITH VOLUME DAMPERS (OPPOSED BLADE WHEN AVAILABLE). 6. CONTRACTOR SHALL PAINT THE INTERIOR OF RETURN/EXHAUST SQUARE TO ROUND TRANSITIONS AND PLENUMS FLAT BLACK. 7. PROVIDE TRANSITION AS REQUIRED FOR DUCT AND DEVICE CONNECTION. 8. RUNOUT DUCTS FOR RETURN/EXHAUST GRILLES SIZED AT MAXIMUM VELOCITY OF 800 FPM. 9. CEILING DIFFUSERS ARE 4-WAY THROW UNLESS NOTED OTHERWISE. INCREASE NECK SIZE ONE STEP FOR 2-WAY THROW AND PROVIDE BLANK OFF PLATES AS REQUIRED. 10. FACE, NECK AND RUNOUT SIZES FOR SIDEWALL GRILLES ARE THE NOMINAL DUCT SIZE. 11. REFER TO FLOOR PLANS FOR LENGTHS OF TYPE S2 NOT REFLECTED IN THE SCHEDULE. 12. REFER TO SPECIFICATION SECTION 233700 FOR ADDITIONAL REQUIREMENTS. REMARKS: A. FIELD EXTERNALLY INSULATED PLENUM/BACK PAN. B. MANUFACTURER PROVIDED EXTERNAL INSULATION. C. FACTORY LEAK TESTED. D. MANUFACTURER PROVIDED BACK PLENUM WITH NECK OPENING SIZES AS INDICATED. E. PROVIDE WITH KNIFE EDGE FOR HEPA GEL SEAL. F. COLOR SELECTED BY ARCHITECT. G. PROVIDE BLANK OFF PLATES FOR UNUSED PORTIONS OF CONTINUOUS SLOT. H. HEAVY DUTY CONSTRUCTION. I. PROVIDE WITH HINGED FRAME. J. FACE OPERATED (VIA SLOT) OPPOSED BLADE DAMPER. K. REAR OPERATED (VIA SLOT) OPPOSED BLADE DAMPER. L. LAMINAR DIFFUSER WITH INTEGRAL LED LIGHTING PROVIDED BY MECHANICAL CONTRACTOR, WIRING BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL LUMINAIRE SCHEDULE FOR ADDITIONAL REQUIREMENTS.

DESIGNATION	CFM RANGE		MANUFACTURER	MODEL	TYPE	LOCATION	FACE SIZE (IN.)	NECK SIZE (IN.)	RUNOUT SIZE (IN.)	PANEL SIZE (IN.)	REMARKS
	MIN.	MAX.									
E1											
E1A	0	190	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	8 DIA.	8 DIA./10x6	24x24	D
R1											
R1A	0	190	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	8 DIA.	8 DIA./10x6	24x24	D
R1	195	280	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	10 DIA.	10 DIA./12x8	24x24	D
R1	285	460	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	12 DIA.	12 DIA./14x10	24x24	D
S1											
S1	0	90	TITUS	TMS	LOUVERED FACE	CEILING	24x24	6 DIA.	6 DIA./8x4	24x24	-
S1	95	190	TITUS	TMS	LOUVERED FACE	CEILING	24x24	8 DIA.	8 DIA./10x6	24x24	-
S1	195	320	TITUS	TMS	LOUVERED FACE	CEILING	24x24	10 DIA.	10 DIA./12x8	24x24	-

MECHANICAL LEGEND (NOT ALL SYMBOLS MAY BE USED)

DUCTWORK			
SYMBOL / ABBREVIATION	DESCRIPTION	SYMBOL / ABBREVIATION	DESCRIPTION
	RECTANGULAR SUPPLY DUCT - UP	12"x12" FACE	24"x24" FACE
	RECTANGULAR SUPPLY DUCT - DOWN		RETURN GRILLE AND AIR QUANTITY (X DENOTES TYPE)
	RECTANGULAR RETURN / EXHAUST DUCT - UP		EXHAUST GRILLE AND AIR QUANTITY (X DENOTES TYPE)
	RECTANGULAR RETURN / EXHAUST DUCT - DOWN	100SX	LAMINAR FLOW SUPPLY DIFFUSER AND AIR FLOW QUANTITY (X DENOTES TYPE)
	ROUND SUPPLY DUCT - UP		LINEAR SLOT DIFFUSER AND AIR FLOW QUANTITY
	ROUND SUPPLY DUCT - DOWN	AT-XX-XX	SOUND ATTENUATOR
	ROUND RETURN / EXHAUST DUCT - UP	XXX	HEATING COIL WITH IDENT.
	ROUND RETURN / EXHAUST DUCT - DOWN	XXX	ELECTRIC HEATING COIL WITH IDENT.
	OVAL SUPPLY DUCT - UP	ATU-XX-XX XXX	AIR TERMINAL UNIT WITH IDENT. & MAX CFM
	OVAL SUPPLY DUCT - DOWN	CB-XX-XX XXX	CHILLED BEAM WITH IDENT. & CFM
	OVAL RETURN / EXHAUST DUCT - UP	CFM	AIRFLOW TRANSFER RATE AT DOOR
	OVAL RETURN / EXHAUST DUCT - DOWN	AD	ACCESS DOOR
	FIRE DAMPER	AFF	ABOVE FINISHED FLOOR
	SMOKE DAMPER	ATC	AUTOMATIC TEMPERATURE CONTROL PANEL
	COMBINATION FIRE/SMOKE DAMPER	BDD	BACKDRAFT DAMPER
	MANUAL VOLUME DAMPER	BOD	BOTTOM OF DUCT
	MOTORIZED DAMPER	BOP	BOTTOM OF PIPE
	AIR FLOW MONITORING STATION	CS	COLD DECK SUPPLY
	DIFFERENTIAL PRESSURE SENSOR	DDC	DIRECT DIGITAL CONTROL
	STATIC PRESSURE SENSOR	DE	DISHWASHER EXHAUST
	CARBON DIOXIDE DETECTOR	D.L.	INTERNAL DUCT LINING
	CARBON MONOXIDE DETECTOR	EA	EXHAUST AIR
	DUCT SENSOR	FD	FIRE DAMPER
	TRAVERSE DUCT TEST AND BALANCE	FSD	COMBINATION FIRE/SMOKE DAMPER
	HUMIDIFIER WITH IDENTIFICATION	GE	GREASE EXHAUST
	TRANSITION	HE	HOOD EXHAUST
	RADIUS ELBOW	HS	HOT DECK SUPPLY
	SQUARE THROAT ELBOW WITH TURNING VANES	IE	ISOLATION EXHAUST
	BRANCH DUCT CONNECTION RECTANGULAR OR ROUND BRANCH, RECTANGULAR TRUNK, MVD REQUIRED TO AIR DEVICES	LE	LAB EXHAUST
	RISE/DROP IN ELEVATION	ML	MARINE LIGHT
	SPLITTER WITH SPLIT SIZE SHOWN	MVD	MANUAL VOLUME DAMPER
	SPLITTER WITH SPLIT SIZES SHOWN	OA	OUTSIDE AIR
	BRANCH DUCT CONNECTION CONICAL TEE AND TAP ROUND TRUNK	OB	OPPOSED BLADE DAMPER
	BRANCH DUCT CONNECTION BEQUE TO AIR DEVICES	OD	PHARMACY EXHAUST
		PE	PHARMACY EXHAUST
		RA	RETURN AIR
		SA	SUPPLY AIR
		SD	SMOKE DAMPER
		SO	SCREENED OPENING
		SWR	SIDEWALL REGISTER
		SWG	SIDEWALL GRILLE
		TG	TRANSFER GRILLE
		UNO	UNLESS NOTED OTHERWISE

MECHANICAL GENERAL NOTES

- A. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS, AND ALL BUILDING SERVICES.
- B. PROVIDE HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED EQUIPMENT. HOUSEKEEPING PAD SIZE AND FLOOR DRAIN LOCATIONS SHALL BE COORDINATED WITH THE SIZE AND LOCATION OF EXACT EQUIPMENT TO BE INSTALLED.
- C. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
- D. ALL DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS IN INCHES. ALL DUCTWORK NOTED AS (D.L.) SHALL BE PROVIDED WITH INTERNAL DUCT LINING. REFER TO SPECIFICATION SECTION 230700 FOR DUCT INSULATION & LINING REQUIREMENTS.
- E. MAJOR EQUIPMENT SHOWN ON THE PLANS AND ELEVATIONS ILLUSTRATE THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE INSTALLED.
- F. SUPPORTS, ANCHOR BOLTS, AND HANGERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23 SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT SPECIFIED IN DIVISION 23 SHALL BE PART OF THE SCOPE OF WORK OF DIVISION 23.
- G. DIFFUSERS, REGISTERS, AND GRILLES SHOWN ON THE MECHANICAL DRAWINGS SHALL BE IN ACCORDANCE WITH THE AIR DISTRIBUTION DEVICE SCHEDULE AND SPECIFICATIONS. BRANCH DUCTS TO AIR DEVICES SHALL BE IN ACCORDANCE WITH THE SCHEDULE UNLESS NOTED OTHERWISE.
- H. FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN DUCTWORK PENETRATIONS THROUGH RATED PARTITIONS, WALLS, BARRIERS, FLOORS, AND SHAFTS IN ACCORDANCE WITH THE PROJECT APPLICABLE BUILDING CODES. DAMPERS SHALL MEET THE REQUIREMENTS OF THE FIRE/SMOKE RATING AND BE "U.L." LABELED. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS AND RATINGS OF ALL WALLS AND FLOORS.
- I. PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.
- J. DUCTWORK AND PIPING 4" AND LARGER ROUTED PARALLEL TO A RATED WALL SHALL BE INSTALLED WITH A MINIMUM 6" CLEARANCE TO ALLOW FOR INSPECTION OF WALL PENETRATIONS.
- K. DUCTWORK STORED ON-SITE AWAITING INSTALLATION SHALL REMAIN PROPERLY SEALED AND PROTECTED. OPEN ENDS OF DUCTWORK SHALL BE CAPPED AND SEALED AFTER INSTALLATION.
- L. SMOKE DETECTORS SHALL BE LOCATED AS INDICATED ON THE MECHANICAL PLANS AND IN CONFORMANCE WITH NFPA 90A AND LOCAL CODES.
- M. CEILING DIFFUSER LOCATIONS SHALL BE AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
- N. CEILING DIFFUSERS, REGISTERS AND GRILLES SHALL BE FURNISHED WITH MOUNTING FRAMES AND FEATURES IN ACCORDANCE WITH THE CEILING TYPE.
- O. PIPING CONNECTIONS TO AIR HANDLING UNIT COILS AND MAJOR EQUIPMENT TO BE FABRICATED WITH ISOLATION VALVES, FLANGES, AND/OR UNIONS POSITIONED TO ALLOW REMOVAL AND SERVICE OF THE COMPONENT PARTS.
- P. THERMOMETER WELLS AND PRESSURE GAUGES SHALL BE INSTALLED ON THE TOP OR SIDE OF HORIZONTAL PIPING IN ORDER TO RETAIN GAUGE FLUID AND BE EASILY READ FROM THE FLOOR.
- Q. PROVIDE EXPANSION JOINT AT EACH PIPE AND DUCT CROSSING AN INTERIOR BUILDING EXPANSION JOINT.
- R. PROVIDE MANUAL BALANCING/VOLUME DAMPERS AT ALL LOW PRESSURE BRANCH TAKE-OFFS TO DIFFUSERS AND GRILLES FROM SUPPLY, RETURN AND EXHAUST MAINS AND SUB-MAINS, AND AT ALL LOW PRESSURE DUCT SPLITS OR SUB-MAIN TAKE-OFFS. DAMPERS SHALL BE INSTALLED ABOVE AN ACCESSIBLE CEILING OR ACCESS PANEL.
- S. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES. REFER TO SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
- T. MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT, DAMPERS, CONTROL PANELS, VALVES, AND OTHER DEVICES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.
- U. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE.
- V. WHERE WORK IN RENOVATED AREAS AFFECTS SYSTEMS IN OTHER AREAS OF THE BUILDING, THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE OWNER. THIS WORK SHALL BE DONE TO FIT THE BUILDING OPERATIONAL SCHEDULE AND MINIMIZE DISRUPTION/DISCOMFORT TO OCCUPIED AREAS. PROVIDE MINIMUM 48 HOURS WRITTEN NOTICE WITH ANTICIPATED DURATION OF OUTAGE.
- W. COORDINATE WITH ALL TRADES FOR REQUIRED CEILING REMOVAL IN EXISTING BUILDING. NOTIFY THE ARCHITECT AND OWNER PRIOR TO COMMENCING REMOVAL. REMOVE ONLY THAT PORTION OF CEILING NECESSARY TO ACCESS AND COMPLETE THE NEW WORK. UPON COMPLETION OF THE ABOVE CEILING WORK, CEILING IS TO BE REINSTALLED. REPLACE ANY DAMAGED CEILING TILES WITH NEW TILES TO MATCH EXISTING.
- X. UNLESS OTHERWISE NOTED ON PLANS, LOW RETURN AIR AND LOW EXHAUST AIR GRILLES/REGISTERS SHALL BE MOUNTED 6" ABOVE FINISHED FLOOR TO THE BOTTOM OF THE FRAME.
- Y. CONTRACTOR SHALL COMPLY WITH THE ARCHITECT AND/OR OWNER PROVIDED INFECTION CONTROL RISK ASSESSMENT PLAN AND OTHER CONSTRUCTION RELATED PROCESSES.
- Z. OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 25 FEET AWAY FROM PLUMBING VENTS, EXHAUST VENTS, AND OTHER SOURCES OF NOXIOUS FUMES AND/OR ODORS. INTAKES SHALL BE A MINIMUM OF 36" ABOVE FINISHED ROOF AND 72" ABOVE FINISHED GRADE.
- AA. IN RETURN AIR PLENUM APPLICATIONS, CONTRACTOR SHALL PROVIDE MINIMUM 32" X 16" ACOUSTICALLY LINED AIR TRANSFER OPENING WITH TOP OF OPENING TIGHT TO PLENUM DECK ABOVE ROOM ENTRY DOOR IN FULL-HEIGHT WALLS. PROVIDE FIRE AND/OR SMOKE DAMPERS AT PENETRATIONS OF ALL FIRE AND SMOKE RATED WALLS AS REQUIRED TO MEET WALL RATING. PROVIDE SMOKE DETECTORS AT INLET OF EACH OPENING IN RATED SMOKE WALLS. CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THIS COORDINATION AND INSTALLATION OF AIR TRANSFER OPENINGS IN FULL-HEIGHT WALLS.

MECHANICAL DEMOLITION NOTES

- A. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL TAKE AIR FLOW AND STATIC PRESSURE READINGS ON EXISTING EQUIPMENT AS FOLLOWS: (INSERT SPECIFIC EQUIPMENT NAMES HERE). RECORD AND SUBMIT TO ARCHITECT/ENGINEER.
- B. PRIOR TO DEMOLITION WORK, CONTRACTOR SHALL TAKE AIRFLOW READINGS OF ALL GRILLES, REGISTERS, AND DIFFUSERS IN PROJECT AREAS. RECORD AND SUBMIT TO ARCHITECT/ENGINEER.
- C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CONDITION OF ALL EXISTING EQUIPMENT. EXACT SIZES OF EXISTING DUCT AND PIPING, ETC. BEFORE DEMOLITION WORK IS BEGUN. REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS TO ARCHITECT AND ENGINEER PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK.
- D. REMOVE THE INDICATED HVAC ITEMS AS SHOWN ON PLANS. THIS INCLUDES ALL HANGERS, STRAPS AND RELATED MATERIAL. IF THE OWNER WISHES TO UTILIZE THE EXISTING EQUIPMENT, CONTRACTOR SHALL MOVE THE EQUIPMENT TO AN ON-SITE LOCATION DESIGNATED BY THE OWNER. ALL EQUIPMENT REUSED BY OWNER SHALL BE DISPOSED OF IN A MANNER ACCEPTABLE BY LOCAL JURISDICTION. ITEMS SHOWN TO BE REMOVED SHALL NOT BE ABANDONED IN PLACE.
- E. CAP AND SEAL AIR TIGHT ALL POINTS AT WHICH DUCTWORK IS REMOVED FROM DUCTWORK THAT WILL REMAIN. RE-INSULATE REMAINING DUCTWORK TO MAINTAIN VAPOR BARRIER.
- F. CAP AND SEAL WATER TIGHT ALL POINTS WHICH PIPING IS REMOVED. RE-INSULATE REMAINING PIPING TO MAINTAIN VAPOR BARRIER.
- G. PATCH OPENINGS IN WALLS WITH LIKE MATERIALS TO MAINTAIN THE INTEGRITY OF THE WALL WHERE AIR DEVICES, DUCTS, PIPING, ETC. HAVE BEEN REMOVED.
- H. CONTRACTOR SHALL VERIFY CLEARANCE REQUIREMENTS AND INDICATE ROUTING OF NEW DUCTWORK BEFORE FABRICATION BEGINS AS RISES AND DROPS MAY BE NECESSARY DUE TO EXISTING FIELD CONDITIONS.
- I. CONTRACTOR SHALL VERIFY ALL EXISTING TO REMAIN FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPERS AND DUCT SMOKE DETECTORS IN THE PROJECT AREA ARE IN PROPER WORKING CONDITION. CONTRACTOR TO NOTIFY ENGINEER AND OWNER OF ANY EXISTING EQUIPMENT FOUND INOPERABLE.
- J. CONTRACTOR TO VERIFY ALL MOTORS, MANUAL AND MOTORIZED DAMPERS, TEMPERATURE AND HUMIDITY SENSORS, AIR TERMINAL UNITS, AND CONTROLS IN THE PROJECT AREA SHOWN AS EXISTING TO REMAIN ARE IN PROPER WORKING CONDITION. CONTRACTOR TO NOTIFY ENGINEER AND OWNER OF ANY EXISTING EQUIPMENT FOUND INOPERABLE.
- K. GENERAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL AND ELECTRICAL CONTRACTOR ALL CEILING REMOVAL WHICH IS REQUIRED TO ACCESS THEIR WORK AND IS NOT DESIGNATED FOR REMOVAL. NOTIFY ARCHITECT AND OWNER PRIOR TO COMMENCING REMOVAL. IF EXISTING CEILING IS DETERMINED TO REQUIRE REMOVAL, REMOVE ONLY THAT PORTION NECESSARY TO ACCESS AND COMPLETE DEMOLITION AND NEW WORK. UPON COMPLETION OF THE ABOVE CEILING WORK, CEILING IS TO BE REPLACED TO MATCH EXISTING CEILING.

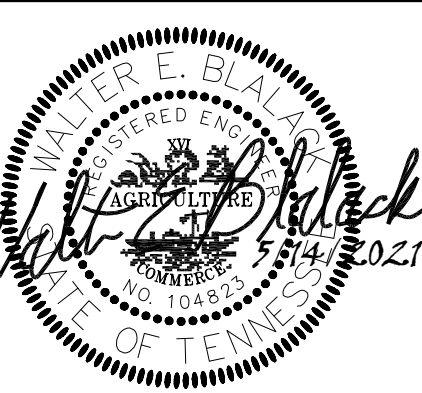
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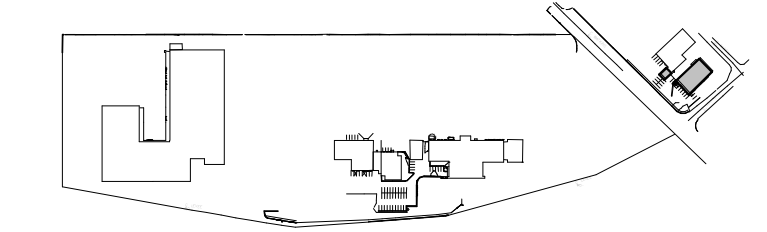


MATA HEADQUARTERS
1370 LEEVE RD,
MEMPHIS, TN, 38108

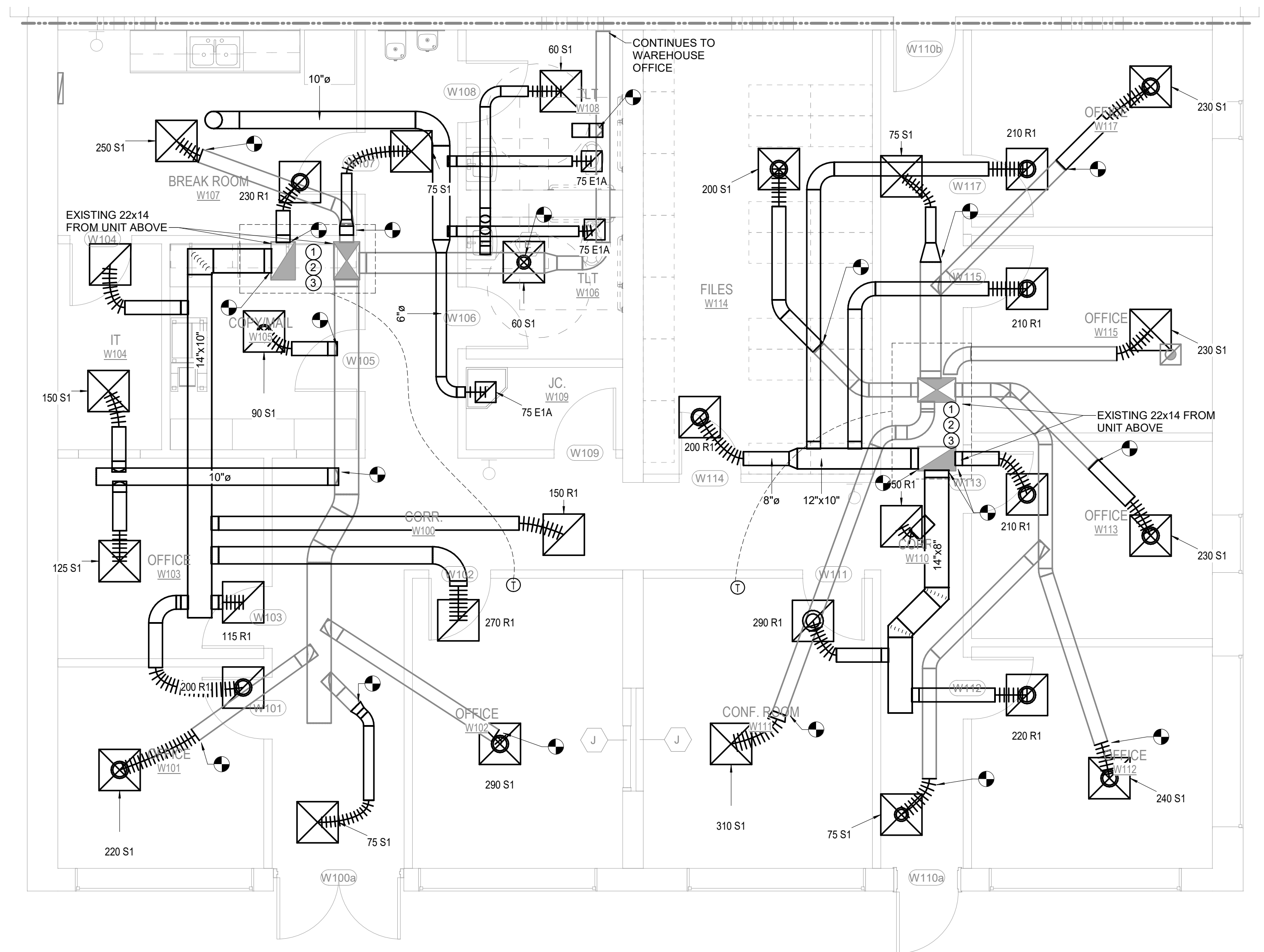
PROJECT NAME
**1364 N WATKINS
PACKAGE 1 -
RENOVATION**

DRAWING TITLE
**MECHANICAL
LEGENDS, INDEX,
AND NOTES**





KEY SITE PLAN - N. WATKINS BUILDING



3 1364 N. WATKINS MECHANICAL FLOOR PLAN
 1/4" = 1'-0"

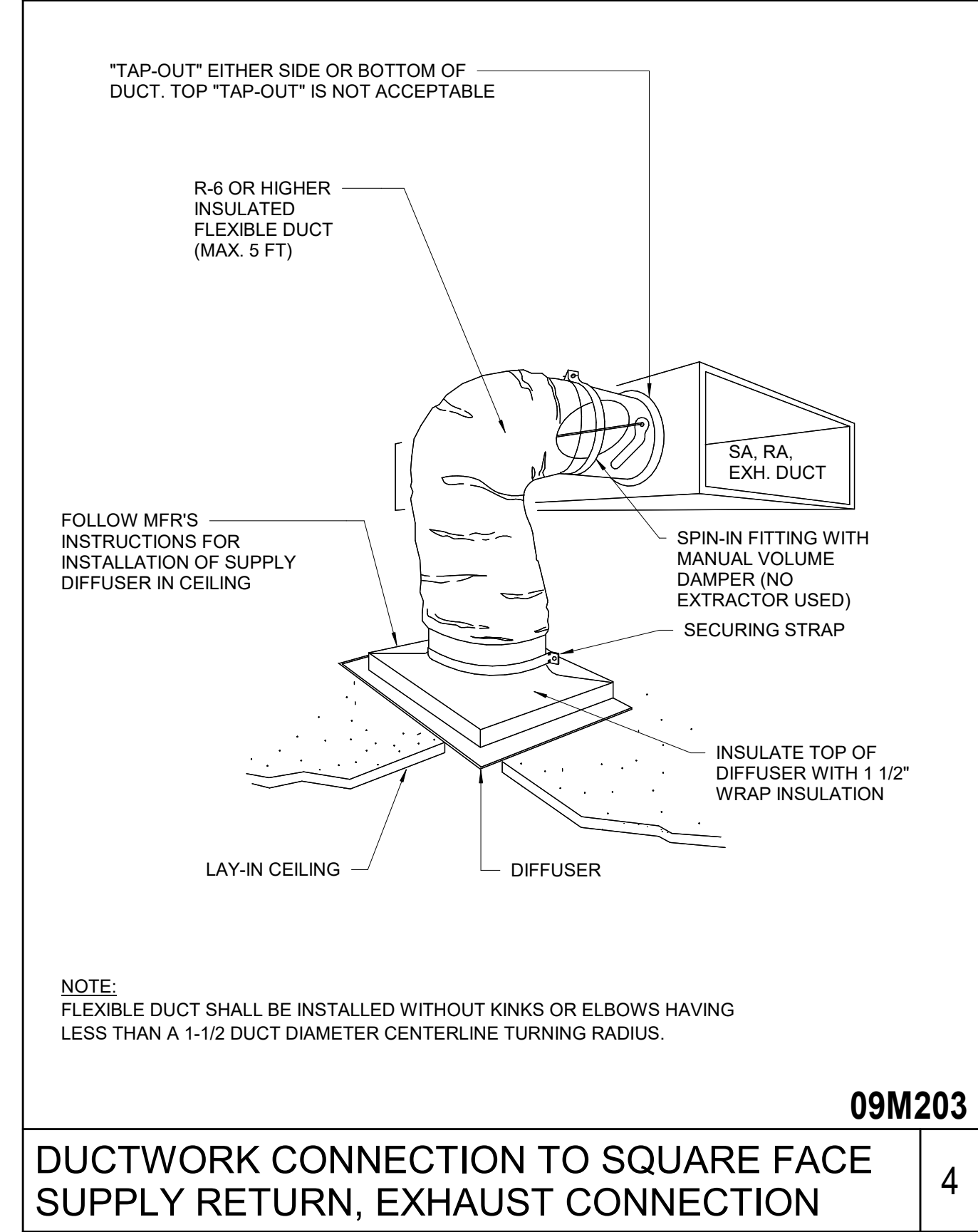


SHEET KEYED NOTES

- 1 EXISTING CARRIER RTU MODEL 48FCDA042 TO REMAIN. PROVIDE NEW MERV 13 PLEATED FILTERS. PROVIDE UV LIGHTING.
- 2 CALIBRATE RTU TO NEW CFM REQUIREMENT.
- 3 IMPLEMENT TVA ENERGY INCENTIVE. SEE GENERAL NOTE.

TVA ENERGY INCENTIVE

1. AS PART OF THE TVA ENERGYRIGHT INCENTIVE, CONTRACTOR SHALL COORDINATE WITH MATA TO COMPLETE THE INCENTIVE APPLICATION.
2. PROJECTS REQUIRE PRE-APPROVAL BEFORE ANY REMOVAL, PURCHASE OR INSTALLATION OF ANY EQUIPMENT.
3. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND VISIT ENERGYRIGHT.COM TO APPLY FOR THE INCENTIVE TO FIND PREFERRED PARTNERS NETWORK (PPN) CONTRACTOR AND COMPLETE THE APPLICATION REQUIREMENTS. THE PROJECT SUBMISSION MUST USE AN APPROVED PPN MEMBER.
4. INSTALL AN IN-DUCT ULTRAVIOLET GERMICIDAL IRRADIATION (UVGI) LIGHTING INSIDE THE SUPPLY AIR DUCTWORK IN EACH OF TWO 3-TON ROOFTOP HVAC UNITS. THE REQUIRED CRITERIA FOR ANTICIPATED ENERGY CONSUMPTION IS NO MORE THAN EIGHT (8) WATTS PER TON (24 WATTS TOTAL) FOR EACH OF THE TWO HVAC UNITS.
5. MATERIAL AND INSTALLATION SHALL MEET WITH THE REQUIREMENTS OF THE INCENTIVE.
6. INSTALLATION CONSIDERATIONS:
 - A. AVOID MOUNTING LAMPS NEAR ANY DUCT OPENINGS, JOINTS, SEAMS, ETC. THE UVGI SYSTEM CANNOT BE INSTALLED IN FLEX DUCT.
 - B. ENSURE NO PLASTIC PARTS, DEVICES, COMPONENTS OR WIRE INSULATION ARE EXPOSED TO THE UV-C LIGHT.



NOTE:
 FLEXIBLE DUCT SHALL BE INSTALLED WITHOUT KINKS OR ELBOWS HAVING LESS THAN A 1-1/2 DUCT DIAMETER CENTERLINE TURNING RADIUS.

09M203

DUCTWORK CONNECTION TO SQUARE FACE SUPPLY RETURN, EXHAUST CONNECTION 4

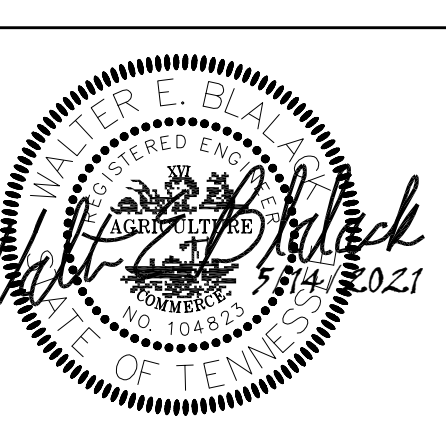
MARK	DATE	DESCRIPTION
REVISIONS		
CLIENT		

MATA
 MEMPHIS AREA TRANSIT AUTHORITY
 MATA HEADQUARTERS
 1370 LEVEE RD,
 MEMPHIS, TN. 38108

PROJECT NAME
1364 N WATKINS PACKAGE 1 - RENOVATION

Project No. 21670900
 Date Issued 05.14.2021
 Drawing Scale As indicated
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DRAWING TITLE
N. WATKINS OFFICE MECHANICAL FLOOR PLAN AND RCP



SHEET ID
CONSTRUCTION DOCUMENTS

M121

MECHANICAL SYSTEMS

PART 1 GENERAL

1.1 REQUIREMENTS:

- A. APPLICABLE PROVISION OF GENERAL CONDITIONS OF DIVISION 1, GENERAL REQUIREMENTS, GOVERN ALL WORK SPECIFIED IN THIS SECTION.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS FOR GENERAL REQUIREMENTS THAT GOVERN ALL WORK SPECIFIED IN THIS SECTION.
- C. REFER TO MECHANICAL DRAWINGS FOR GENERAL REQUIREMENTS APPLYING, BUT NOT LIMITED TO THE FOLLOWING:
 1. ALTERNATES
 2. INSPECTION OF SITE
 3. VERIFICATION OF UTILITIES AND SERVICES
 4. REQUIREMENTS OF REGULATORY AGENCIES
 5. DRAWINGS
 6. SAFETY DEVICES
 7. SHOP DRAWINGS
 8. GUARANTEE

1.2 SCOPE OF WORK INCLUDED:

- A. MECHANICAL WORK SHALL INCLUDE ALL CONSTRUCTION IN CONNECTION WITH HEATING, VENTILATING AND AIR CONDITIONING AS DESCRIBED HEREAFTER.
- B. WORK SPECIFIED UNDER THIS SECTION INCLUDES FURNISHING OF AND PAYING FOR ALL MATERIALS, LABOR, EQUIPMENT LICENSES, TAXES, AND OTHER ITEMS REQUIRED FOR EXECUTION AND COMPLETION OF ALL WORK INDICATED.
- C. EVERYTHING NECESSARY FOR A COMPLETE AND SATISFACTORY INSTALLATION INCLUDING ALL NECESSARY PARTS, DEVICES, ACCESSORIES, ETC., REQUIRED BY CODES OR THAT MAY BE REQUIRED TO SATISFACTORILY COMPLETE THE INSTALLATION OF THE ABOVE ITEMS SHALL BE PROVIDED.

1.3 RELATED WORK UNDER OTHER DIVISIONS OF THE CONTRACT:

- A. CONCRETE PADS AND FOUNDATIONS - REF. STRUCTURAL
- B. POWER AND CONTROL WIRING - REF. ELECTRICAL

1.4 REFERENCE STANDARDS:

- A. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING PERTINENT STANDARDS AND LEGAL CODES AND ORDINANCES:
 1. INTERNATIONAL BUILDING CODE AND PUBLICATIONS REFERRED TO THEREIN
 2. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
 3. STATE, COUNTY, AND LOCAL MECHANICAL, GAS, AND PLUMBING CODES
 4. NATIONAL ELECTRICAL CODE (NEC)
 5. AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA)
 6. AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC. (ASHRAE)
 7. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
 8. AMERICAN SOCIETY FOR TESTING AND MATERIAL (ASTM)
 9. ASSOCIATED AIR BALANCE COUNCIL (AABC)
 10. NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB)
 11. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA)
 12. CAST IRON PIPE INSTITUTE (CPI)
 13. NATIONAL SANITATION FOUNDATION TESTING LABORATORY (NSF)
 14. PLUMBING DRAINAGE INSTITUTE (PDI)
 15. FACTORY MUTUAL GLOBAL (FM)
 16. STANDARDS AND PERIODICALS LISTINGS, UNDERWRITERS LABORATORIES
 17. FOR WORK NOT SPECIFICALLY LISTED ABOVE, USE THE STANDARDS AND CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

1.5 VERIFICATION OF UTILITIES AND SERVICES:

- A. IMMEDIATELY UPON COMMENCING CONSTRUCTION, AND PRIOR TO CONSTRUCTION OF ANY PART OF THE FACILITY INVOLVED IN ANY WAY WITH UTILITIES, INVESTIGATE THOROUGHLY THE SIZE, CAPACITY, ARRANGEMENT AND LOCATION OF UTILITIES, REPORT ANY DISCREPANCIES OR APPARENT PROBLEM INVOLVING THE PROJECT THAT PERTAIN TO UTILITIES. THIS APPLIES TO PRIVATE AS WELL AS PUBLIC UTILITIES.

1.6 REQUIREMENTS OF REGULATORY AGENCIES:

- A. ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH ALL LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK AND SHALL INCLUDE ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, ROYALTIES, TAXES, AND OTHER SIMILAR COSTS IN CONNECTION THEREWITH. IF THE DRAWINGS OR SPECIFICATIONS ARE AT VARIANCE WITH ABOVE MENTIONED LAWS, RULES AND REGULATIONS, NOTIFY THE ENGINEER IN WRITING SO ANY NECESSARY CHANGES CAN BE PROVIDED PRIOR TO CONTRACT.
- B. IF THE CONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO SUCH LAWS, RULES OR REGULATIONS, AND WITHOUT NOTICE AS REQUIRED ABOVE, HE SHALL BEAR COSTS ARISING THEREFROM. THE DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, ORDINANCES, OR STATUTES IN EFFECT.
- C. APPLICABLE CODES, ORDINANCE, STANDARDS AND STATUTES TAKE PRECEDENCE WHERE THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.

1.7 INSTRUCTION OF OWNER:

- A. WHEN THE SYSTEM IS IN COMPLETE OPERATION, AND PRIOR TO DATE OF FINAL COMPLETION, PROVIDE AN APPROVED QUALIFIED ENGINEER, TECHNICIAN, OR MECHANIC, FOR A PERIOD OF FOUR (4) MAN-HOURS TO INSTRUCT THE OWNER, OR HIS AUTHORIZED PERSONNEL, IN OPERATION AND MAINTENANCE OF ALL SYSTEMS INSTALLED UNDER THIS SECTION OF WORK, OR RELATED WORK UNDER OTHER SECTIONS.
- B. REVIEW OPERATING AND MAINTENANCE MANUAL, IDENTIFY ALL CONTROLS AND ALL LUBRICATION POINTS, DEMONSTRATE START, STOP, AND ADJUSTMENTS OF ALL SYSTEMS AND EQUIPMENT.

1.8 DRAWINGS:

- A. IT IS INTENDED THAT ALL PARTS AND COMPONENTS BE LOCATED SYMMETRICALLY WITH ARCHITECTURAL ELEMENTS, AND SHALL BE INSTALLED AT EXACT HEIGHT AND LOCATIONS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- B. BE ACQUAINTED WITH ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACES AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS FURNISHED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS. EXERCISE DUE AND PARTICULAR CAUTION TO DETERMINE THAT ALL PARTS OF THE WORK ARE MADE QUICKLY AND EASILY ACCESSIBLE.
- C. ALTHOUGH THE LOCATIONS OF THE EQUIPMENT AND PIPING MAY BE SHOWN ON THE DRAWINGS IN CERTAIN POSITIONS, SHOULD THE CONTRACTOR DISCOVER CONFLICTS OR INTERFERENCES DURING PROGRESS OF THE WORK HE SHALL REPORT ANY DISCREPANCIES OR INTERFERENCES THAT ARE DISCOVERED. FAILURE TO REPORT SUCH DISCREPANCIES AND INTERFERENCES SHALL RESULT IN THE CORRECTING OF THESE ERRORS OR OMISSIONS BY THIS SECTION AT HIS OWN EXPENSE. ALL WORK INSTALLED UNDER THIS SECTION WHICH DEVIATES FROM THE DRAWINGS AND SPECIFICATION WITHOUT PRIOR APPROVAL, SHALL BE ALTERED BY THIS SECTION AT HIS OWN EXPENSE, TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS AS DIRECTED.
- D. THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT REFLECT ALL OFFSETS OR CHANGES OF DIRECTION OR ELEVATION TO COORDINATE WITH THE ACTUAL CONSTRUCTION OF THE PROJECT. CONTRACTOR SHALL COORDINATE WITH THE ACTUAL CONDITIONS PRESENTED DURING CONSTRUCTION TO ENSURE THE INTENT OF THE DESIGN IS MET.

1.9 SAFETY DEVICES:

- A. CONTRACTOR SHALL FURNISH AND INSTALL SAFETY GUARDS FOR ALL DANGEROUS MOVING PARTS SUCH AS BELTS AND PULLEYS, FLEXIBLE SHAFT CONNECTIONS AND THE LIKE, AND SHALL PROVIDE ALL REQUIRED SAFETY CONTROLS TO PREVENT DANGEROUS OR DAMAGING OPERATION OF EQUIPMENT.

1.10 SHOP DRAWINGS (SUBMITTALS):

A. EQUIPMENT SUBMITTALS:

- 1. ELECTRONIC COPIES OF SHOP DRAWINGS AND/OR MANUFACTURER'S DESCRIPTIVE DATA IN A PDF FORMAT OF A NATUALLY COMPLETELY IDENTIFY THE EQUALITY OF THE MATERIAL OR EQUIPMENT INTENDED FOR INSTALLATION SHALL BE SUBMITTED FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION AND WITHIN THIRTY DAYS AFTER SIGNING CONTRACT. FAILURE TO SUBMIT DATA FOR APPROVAL WITHIN THIRTY DAYS TIME LIMIT WILL BE CONSTRUED AS MEANING EQUIPMENT CALLED FOR BY NAME WILL BE FURNISHED. DATA SHALL BE ORGANIZED IN SAME ORDER AS LISTED BELOW, SHALL BE SUBMITTED ALL IN ONE BROCHURE, INDEXED BY FLYSHEET ON FRONT PAGE, AND BE BOUND IN SETS, ALL SETS IDENTICAL. NO EXCEPTION WILL BE MADE TO THIS PROCEDURE AND TIME SCHEDULE.
- 2. EACH ITEM SUBMITTED FOR REVIEW SHALL BE MARKED AND HAVE SUBMITTAL DATA PRECEDED BY A TYPEWRITTEN DESCRIPTION (BY CONTRACTOR OR ITEM SUPPLIER) OF THE ITEM, DESCRIPTION TO INCLUDE MAKE AND MODEL NUMBERS AND SHALL DESCRIBE THE ITEM, LIST ALL OPTIONS AND ACCESSORIES WHICH ARE INCLUDED, LIST ANY OPTIONS OR ACCESSORIES SHOWN ON SHOP DRAWINGS WHICH ARE NOT INCLUDED.
- 3. SUBMIT THE FOLLOWING FOR APPROVAL, REFERRING TO THE VARIOUS SECTIONS OF THIS SPECIFICATION FOR SPECIFIC ITEMS (AS APPLICABLE):
 - a. VENTILATING EQUIPMENT.
 - b. DUCT INSULATION.
 - c. DUCT HANGERS.
 - d. AIR DISTRIBUTION EQUIPMENT.

1.11 GUARANTEE:

- A. ALL WORK PERFORMED UNDER THIS DIVISION SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FROM DATE OF SUBSTANTIAL COMPLETION OF SUCH WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- B. LATENT DEFECTS ARISING DURING THIS PERIOD SHALL, UPON NOTIFICATION BY THE OWNER, BE PROMPTLY CORRECTED AT NO ADDITIONAL COST TO THE OWNER.

1.12 COORDINATION:

- A. COORDINATE ALL WORK WITH THAT OF THE OTHER TRADES ON THE JOB AND ALSO WITH THAT OF THE OWNER, IN ORDER THAT THERE WILL BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF THE WORK. ANY COST FOR EXTRA WORK OR MATERIALS RESULTING FROM LACK OF COORDINATION OF WORK PERFORMED UNDER THIS SECTION SHALL BE BORNE BY THIS SECTION.

1.13 WORKMANSHIP, MATERIALS AND EQUIPMENT:

- A. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED. ALL MATERIALS SHALL BE OF TYPE, QUALITY, AND OF MINIMUM RATINGS PRESCRIBED HEREIN OR AS INDICATED ON THE PLANS.

1.14 MANUFACTURER'S RECOMMENDATIONS:

- A. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER OF SUCH MATERIAL AND EQUIPMENT.
- B. IN THE EVENT OF DISCREPANCY BETWEEN MANUFACTURER'S RECOMMENDATIONS AND ANY REQUIREMENTS OF DRAWINGS OR SPECIFICATIONS, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IN ORDER THAT THE MATTER CAN BE CLEARED UP PRIOR TO ANY INSTALLATION OF MATERIALS OR EQUIPMENT.

1.15 PROTECTION OF WORK:

- A. PROTECT WORK AT ALL TIMES FROM DANGER BY FREEZING, BREAKAGE, DIRT, FOREIGN MATERIALS, ETC., AND REPLACE ALL WORK SO DAMAGED. USE EVERY PRECAUTION TO PROTECT THE WORK OF OTHERS, AND BE RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY WORK OF, OR THROUGH THE NEGLIGENCE OF WORKMEN UNDER THIS SECTION OF THE SPECIFICATIONS.

1.16 EQUIPMENT/PIPPING SUPPORTS:

- A. FURNISH AND ERECT ALL NECESSARY STEEL MEMBERS, FRAMES, CONNECTIONS, ETC., TO SUPPORT EQUIPMENT AND PIPING INSTALLED UNDER THIS SECTION, REGARDLESS OF WHETHER THE DRAWINGS INDICATE SUPPORT DETAILS OR NOT, COORDINATE WITH GENERAL CONTRACTOR TO DETERMINE WHICH SUPPORTS ARE BEING FURNISHED BY OTHER SECTIONS.
- B. PROVIDE CONCRETE PADS, CURBS, ETC. FOR SUPPORT OF EQUIPMENT AND PIPING INSTALLED UNDER THIS SECTION, WHETHER SHOWN ON DRAWINGS OR NOT, EXCEPT WHERE SUPPORTS ARE REQUIRED TO BE FURNISHED AND INSTALLED BY OTHER SECTIONS OF THESE SPECIFICATIONS, COORDINATE RESPONSIBILITY WITH GENERAL CONTRACTOR.
- C. PROVIDE VIBRATION ABSORBING, MOUNTING DEVICES (INCLUDING SEISMIC RESTRAINT) DESIGNED TO PREVENT TRANSMISSION OF VIBRATION AND NOISE TO THE BUILDING STRUCTURE.

1.17 PAINTING AND IDENTIFICATION:

- A. THE FOLLOWING PROTECTIVE PAINTING AND IDENTIFICATION OF EQUIPMENT AND PIPING SHALL BE PROVIDED UNDER THIS DIVISION OF THE WORK, OTHER FINISH PAINTING SHALL BE PROVIDED UNDER THE "PAINTING" DIVISION OF THE SPECIFICATIONS.
 1. FABRICATED EQUIPMENT AND ASSEMBLED UNITS SHALL BE FURNISHED WITH FACTORY APPLIED, PROTECTIVE, PRIME COAT PAINT OF FINISHED BAKED ENAMEL AS SPECIFIED HEREIN BEFORE. EQUIPMENT SURFACES DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REFINISHED BY THE CONTRACTOR.

1.18 TESTING:

- A. UPON COMPLETION OF WORK, ALL EQUIPMENT SHALL BE CLEANED AND ADJUSTED FOR PROPER OPERATION AND ANY DEFECTS DISCOVERED SHALL BE CORRECTED BEFORE FINAL INSPECTION PRIOR TO ACCEPTANCE.
- B. ALL AIR LEAKS SHALL BE REPAIRED. DUCTWORK SHALL BE TESTED FOR LEAKS BEFORE APPLYING EXTERNAL INSULATION AND BEFORE CONCEALING IN INACCESSIBLE LOCATIONS.

1.19 ADJUSTMENTS:

- A. UPON COMPLETION OF THE INSTALLATION OF ALL WORK AND EQUIPMENT, THE CONTRACTOR SHALL START ALL EQUIPMENT AND MAKE ALL NECESSARY ADJUSTMENTS TO PLACE ENTIRE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS IN A SATISFACTORY CONDITION FOR CONTINUOUS SAFE OPERATION.
- B. TEMPERATURE AND SAFETY CONTROLS SHALL BE ADJUSTED AS NECESSARY TO INSURE CONTINUOUS, TROUBLE FREE, SAFE, AND AUTOMATIC OPERATION OF SYSTEMS.

1.20 CONTRACTOR'S TEST AND BALANCE:

- A. PROVIDE A TEST AND BALANCE REPORT OF THE SUPPLY AIR SYSTEM SERVING THE RENOVATED AREAS FOLLOWING PROCEDURES RECOMMENDED BY THE AABC OR OWNER-APPROVED AGENCY, PROVIDE AN AABC CERTIFIED TEST AND BALANCE OF MODIFIED AIR SYSTEMS: TERMINAL UNITS, TERMINAL UNIT REHEAT COILS, AND ASSOCIATED AIR INLETS AND OUTLETS. MEASURE AND DOCUMENT PRESSURE DROP ACROSS REHEAT COILS AT MAXIMUM DESIGN FLOW, FOR ALL BALANCE PARAMETERS DOCUMENT SPECIFIED, TEST, AND FINAL CONDITIONS, ACCEPTABLE MARGIN IS ±10%. PERMANENTLY MARK ALL BALANCE POINTS AT DAMPERS AND VALVES. INCLUDE CALIBRATION OF FLOW SENSORS, DIFFERENTIAL PRESSURE TRANSDUCERS, SETTING MAXIMUM AND MINIMUM AIR FLOW SETPOINTS.
- B. ASSIST CONTROL CONTRACTOR WITH CALIBRATION OF ANY NEW SENSORS.
- C. PROVIDE PROFESSIONAL REPORT IN PDF FORMAT.

1.21 CLEAN-UP:

- A. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY EMPLOYEES OR WORK UNDER THIS SECTION OF THE SPECIFICATIONS. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC., AND LEAVE THE PREMISES "BROOM-CLEAN".

1.22 INSTRUCTION OF OWNER:

- A. PROVIDE THE SERVICES OF APPROVED QUALIFIED ENGINEER, TECHNICIAN OR MECHANIC FOR A PERIOD OF 4 HOURS TO INSTRUCT THE OWNER OR HIS AUTHORIZED REPRESENTATIVE, IN ALL PHASES OF OPERATION AND MAINTENANCE OF EACH OF THE MECHANICAL SYSTEMS.

1.23 OPERATING AND MAINTENANCE INSTRUCTIONS:

- A. FURNISH AND TURN OVER TO A/E THREE (3) HARD COPIES AND ONE ELECTRONIC COPY OF OPERATION AND MAINTENANCE INSTRUCTIONS, TO INCLUDE:
 1. COMPLETE SET OF APPROVED SUBMITTAL DATA ON INSTALLED EQUIPMENT, TO INCLUDE FINAL TEST AND BALANCE REPORT, AS BUILT TEMPERATURE CONTROL DIAGRAMS AND WIRING DIAGRAMS.
 2. OPERATING INSTRUCTIONS ON ALL EQUIPMENT HAVING MOVING PARTS, TO INCLUDE RECOMMENDED MAINTENANCE AND INSPECTION SCHEDULE.
 3. PARTS LISTS ON ALL EQUIPMENT, ALONG WITH NAME, ADDRESS, AND TELEPHONE NUMBER OF SOURCE OF PURCHASE OR LOCAL REPRESENTATIVE.
 4. COPIES OF ALL WARRANTIES OR GUARANTEES.
 5. COPIES OF INSTALLATION INSTRUCTIONS WHEN FURNISHED WITH EQUIPMENT.
- B. INSTRUCTIONS SHALL BE IN HARD COVER BINDER WITH INDEX, INSERT IN ORDER AS LISTED HEREIN, PROVIDE ELECTRONIC COPY.

PART 2 PRODUCTS

2.1 MATERIALS AND EQUIPMENT:

- A. MATERIALS AND/OR EQUIPMENT SPECIFIED HEREIN TO BE OF A CERTAIN MANUFACTURER OR BRAND ARE USED AS A STANDARD AND MATERIALS AND/OR EQUIPMENT OF OTHER MANUFACTURER MAY BE SUBMITTED FOR SUBSTITUTION PROVIDED THAT THEY MEET OR EXCEED QUALITY AND ALL CAPACITIES SPECIFIED AND SPACE REQUIREMENTS SHOWN ON THE DRAWINGS.

2.2 LOW PRESSURE DUCTWORK:

- A. DUCTWORK SUBJECT TO PRESSURES UP TO 2.0" WATER COLUMN SHALL BE DESIGNATED LOW PRESSURE DUCTWORK AND SHALL BE CONSTRUCTED OF GALVANIZED STEEL ASTM A525-75 GRADE 680, HOT DIP GALVANIZED TO 0.90 OZ. OF ZINC PER SQUARE FOOT OF METAL.
- B. ALL CONSTRUCTION AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH S.M.A.C.N.A. RECOMMENDATIONS.
- C. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS MEASURED INSIDE BARE DUCT.
- D. METAL GAUGE, LONGITUDINAL AND TRANSVERSE JOINTS, SHALL BE FOR 2.0" PLUS OR MINUS STATIC PRESSURE, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- E. RADIUS ELBOWS SHALL HAVE MINIMUM CENTERLINE RADIUS OF 1.5 X DUCT WIDTH. LARGER ELBOWS SHALL BE VANED PER S.M.A.C.N.A. DETAILS. SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, PER S.M.A.C.N.A. DETAILS, BARBER COLEMAN "AIRTURNS", OR EQUIVALENT TITUS.
- F. TRANSITIONS SHALL BE AS GRADUAL AS POSSIBLE, BUT NOT TO EXCEED 30" PER SIDE.
- G. BRANCH DUCT TAKEOFFS FOR RECTANGULAR DUCTS SHALL BE ONE OF THE FOLLOWING:
 1. 90° TAKEOFF (STRAIGHT TAP) WITH ADJUSTABLE DEFLECTOR IN TRUNK DUCT, OR FIXED DEFLECTOR WITH MANUAL DAMPER.
 2. 45° ELBOW TAP-IN.
 3. 90° TAKEOFF WITH 45° ENTRY.
- H. BRANCH DUCT TAKEOFFS FOR ROUND DUCT SHALL BE MADE WITH ONE OF THE FOLLOWING:
 1. 45° TAKEOFF.
 2. 90° CONICAL TAP-IN.
 3. RECTANGULAR TO ROUND TRANSITION BOOT, 45° ENTRY.
- I. ALL BRANCH TAKEOFFS SHALL HAVE MANUAL DAMPER WITH QUADRANT.
- J. FINAL CONNECTIONS FROM DUCTS TO CEILING DIFFUSERS MAY BE MADE WITH FLEXIBLE INSULATED DUCT NOT TO EXCEED 3'-0" IN LENGTH.

2.3 FLEXIBLE INSULATED DUCT:

- A. LOW PRESSURE (2" S.P. AND UNDER) SHALL BE CONSTRUCTED AS FOLLOWS:
 1. CORE LINER: FLEXIBLE ACOUSTICALLY TRANSPARENT PLASTIC SHEET LINER BONDED TO GALVANIZED SPRING STEEL WIRE HELIX.
 2. INSULATION: 1" THICK GLASS FIBER 1 LB. DENSITY
 3. VAPOR JACKET: FLEXIBLE COPOLYMER SEAMLESS SHEET HAVING PERM RATING 0.05.
 4. RATING: UL-181 CLASS 1 AIR DUCT, RATED AND LABELED 2.0" STATIC PRESSURE, 4,000 FPM VELOCITY.
 5. DUCT SHALL BE FLEXMASTER, TYPE 8M, OR APPROVED EQUAL.

2.4 DIFFUSERS, GRILLES AND REGISTERS:

- A. CEILING SUPPLY AND RETURN DIFFUSERS SHALL BE SIZED FOR A MAXIMUM STATIC PRESSURE DROP OF 0.05 INCHES W.G., AND MAXIMUM NOISE LEVEL OF NC-30, SELECTION FOR THROW TO NEAREST WALL SHALL PROVIDE A DOWNWARD AIR MOVEMENT AT WALL OF 50 FPM.
- B. ALL CEILING DIFFUSERS SHALL HAVE VOLUME CONTROL DAMPER OPERABLE FROM THE FACE OF THE DIFFUSER, DIFFUSERS AND GRILLES SHALL BE AS INDICATED ON THE SCHEDULE.
- C. UNLESS OTHERWISE NOTED ON DRAWINGS AIR DISTRIBUTION CONSTRUCTION AND FINISHES SHALL BE AS FOLLOWS:
 1. CEILING DIFFUSERS - STEEL CONSTRUCTION BAKED WHITE ENAMEL FINISH.
 2. GRILLES AND REGISTERS
CEILING - STEEL OR ALUMINUM CONSTRUCTION BAKED WHITE ENAMEL FINISH.
- D. CEILING DIFFUSERS, SUPPLY AND RETURN, SHALL HAVE REMOVABLE FACE PLATE AND FRAMES SELECTED FOR THE CEILING CONSTRUCTION IN WHICH INSTALLED (T-BAR, SPLINE, ETC.).

2.5 DAMPERS:

- A. MANUAL VOLUME DAMPERS SHALL BE INSTALLED IN EACH BRANCH DUCT, AND WHERE INDICATED.
- B. DAMPER CONSTRUCTION SHALL BE PER FIGURE 2-14 AND 2-4.5 OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS", FIRST EDITION, MARK END OF SHAFT PARALLEL TO BLADE AND PROVIDE LOCKING QUADRANT.
- C. PROVIDE STAND-OFF ASSEMBLY FOR ALL DAMPERS INSTALLED ON INSULATED DUCT.

A. DUCTS:

- 1. ALL SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED WITH 2 INCH THICK INSULATION FACED WITH FOL REINFORCED KRAFT, EQUAL TO FRK 25-ED100, AS MANUFACTURED BY OWENS-CORNING FIBERGLASS CORP. OR KNAUF MULTI-PURPOSE 1 LB. DENSITY FRK. INSULATION SHALL BE WRAPPED TIGHTLY ON THE DUCTWORK WITH ALL CIRCUMFERENTIAL JOINTS BUTTED AND ALL LONGITUDINAL JOINTS OVERLAPPED A MINIMUM OF 2 INCH, ADDITIONALLY SECURE INSULATION TO THE BOTTOM OF RECTANGULAR DUCT WORK, OVER 24 INCH WIDE, WITH MECHANICAL FASTENERS AT NOT MORE THAN 12 INCH O.C. ALL PIN PENETRATIONS AND/OR PUNCTURES SHALL BE COVERED W/FRJ TAPE.

B. SMOKE AND FLAME RATING:

- 1. ALL INSULATION SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATING AS TESTED BY PROCEDURES ASTM E-84, NFPA 255, AND WL 723 NOT EXCEEDING FLAME SPREAD 25 AND SMOKE DEVELOPED 50.

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS:

- A. REFER TO PART 1 GENERAL FOR:
 1. COORDINATION
 2. WORKMANSHIP, MATERIALS AND EQUIPMENT
 3. MANUFACTURER'S RECOMMENDATIONS
 4. PROTECTION OF WORK
 5. UTILITY CONNECTIONS
 6. PATCHING
 7. PAINTING IDENTIFICATION
 8. ADJUSTMENTS
 9. CONTRACTORS TEST AND BALANCE
 10. CLEAN-UP
- B. FOLLOW RECOMMENDATION OF ASHRAE "HANDBOOK", SMACNA "LOW PRESSURE DUCT CONSTRUCTION METHODS", AND THE DRAWINGS.
- C. UNLESS INDICATED OTHERWISE ON DRAWINGS ALL LOW PRESSURE DUCTWORK FOR 2" W.C. PRESSURE.
- D. SEAL ALL JOINTS BY DIPPING IN HARD CAST TAPE DT-5400 IN HARD CAST ACTIVATOR RTA 50 AND THEN WRAPPING AROUND AND OVER THE JOINTS.
- E. TRANSVERSE JOINT SYSTEMS MANUFACTURED BY DUCTMATE OR EQUAL ARE ACCEPTABLE.
- F. IN GENERAL, VERTICAL RISERS AND OTHER DUCT RUNS WHERE THE METHOD OF SUPPORT SPECIFIED ABOVE IS NOT APPLICABLE SHALL BE SUPPORTED BY SUBSTANTIAL ANGLE BRACKETS DESIGNED TO MEET FIELD CONDITIONS AND INSTALLED TO ALLOW FOR DUCT EXPANSION.
- G. WHERE DUCTS PASS THROUGH WALLS, FLOORS OR PARTITIONS, THE EDGES SHALL BE PACKED WITH MINERAL FIBER OR OTHER NON-COMBUSTIBLE MATERIAL. AFTER HOLE IS FILLED, PROVIDE SHEET METAL COLLAR AROUND THE DUCT TO COVER THE ROUGH OPENING.
- H. VOLUME DAMPERS SHALL BE INSTALLED WHERE BRANCHES TAKE-OFF FROM MAIN TRUNK DUCTWORK, WHERE DUCTS DIVE, OR WHERE SHOWN ON THE PLANS.
- I. PROVIDE FLEXIBLE CONNECTIONS AT ALL CONNECTIONS BETWEEN DUCTS AND FANS OR CASINGS.

3.2 REGISTER AND DIFFUSERS:

- A. CEILING DIFFUSERS SHALL BE INSTALLED IN MANNER RECOMMENDED FOR THE TYPE CEILING IN WHICH INSTALLED. ALL SHALL BE CENTERED GEOMETRICALLY IN CEILING ELEMENTS WITH SIDES PARALLEL TO WALLS AND PARTITIONS. PROVIDE SUPPORTS ABOVE CEILING WHERE REQUIRED TO SUPPORT OUTLET WEIGHTS AND TO PULL SURFACE FLANGES FLUSH TO CEILING. INSULATE TOPS OF DIFFUSERS AND REGISTERS ABOVE CEILING IN NON-PLENUM RETURN CEILING SPACES.
- B. FIRE STOPPING SHALL BE PROVIDED AT ALL DUCT PENETRATIONS OF FIRE RATED WALLS, PARTITIONS, FLOORS, ROOFS, OR OTHER RATED BUILDING ASSEMBLIES. PROVIDE GROUT TO FILL OPENINGS IN HOLLOW MASONRY AROUND WALL OPENINGS, PROVIDE SHEET METAL SLEEVE AT OTHER HOLLOW WALL OR PARTITIONS, PACK OPENINGS BETWEEN DUCT AND SLEEVE OR OPENING ON ALL SIDES WITH FIREPROOF MINERAL WOOL AND CAULK EACH SIDE WITH NON-COMBUSTIBLE CALKING COMPOUND.

3.3 FLEXIBLE INSULATED DUCTS:

- A. INSTALL IN ACCORDANCE WITH SMACNA "FLEXIBLE INSULATE DUCT CONSTRUCTION STANDARDS".
- B. DRAW BANDS AT ENDS OF DUCT SHALL BE NON-FERROUS METAL.
- C. WHERE ENDS OF DUCT ABUT OTHER INSULATION OR LINED METAL DUCTS, SEAL THE VAPOR JACKET TO THE ADJACENT SURFACE WITH PERMANENT ADHESIVE. USE NO "DUCT-TAPE".

3.4 SLEEVES:

- A. SLEEVES IN NON-BEARING PARTITIONS, OR NON-LOAD BEARING WALLS MAY BE 22 GAUGE SHEET STEEL OR HOLE-OUTS, IN BEARING WALLS, WATERPROOFED FLOORS, OR ROOFS, THEY SHALL BE SCHEDULE 40 STEEL PIPE WITH FINISHED ENDS.
- B. CALK SLEEVES IN FLOOR WITH FIREPROOF MINERAL WOOL AND SEAL ENDS WITH FIREPROOF CALKING COMPOUND TO SEAL SPACE BETWEEN PIPE OR COVERING, AND THE SLEEVE, SLEEVES IN ROOF SHALL BE FLASHED AND MADE WATERTIGHT. PACK SLEEVES PASSING THROUGH FIRE WALLS OR FIRE RATED FLOORS WITH FIREPROOF MINERAL WOOL AND SEAL ENDS WITH NON-HARDENING FIREPROOF CALKING COMPOUND.
- C. SLEEVES SHALL BE INSTALLED AND SECURELY FASTENED IN THEIR PROPER POSITION BY EACH SPECIALTY CONTRACTOR FOR HIS OWN WORK, WHO SHALL BE RESPONSIBLE FOR FINAL LOCATION.

3.5 UNIONS:

- A. UNIONS BETWEEN PIPING OF DIFFERENT MATERIALS SHALL BE PROVIDED WITH DIELECTRIC UNIONS OR FLANGES.

3.7 HANGERS AND SUPPORTS:

- A. FURNISH ALL MATERIALS REQUIRED FOR THE PROPER SUPPORT OF EQUIPMENT AND PIPING INSTALLED HEREIN. EACH HANGER SHALL BE SUITABLE TO MEET THE STRUCTURAL TEMPERATURE, PIPE MATERIAL AND EXPANSION CONDITIONS ENCOUNTERED. SELECTION AND APPLICATION SHALL BE IN ACCORDANCE WITH ANSINMSS SP-69.
- B. CLAMPS, INSERTS, BOLTS, CHANNEL AND ANGLE IRON, RACKS, ROLLERS, ETC., SHALL BE FURNISHED FOR PIPING AND EQUIPMENT SUPPORTS AS REQUIRED. ALL HANGER AND SUPPORT COMPONENTS SHALL BE ADEQUATE FOR THE LOADS INVOLVED.
- C. EQUIPMENT SHALL BE SUPPORTED ADEQUATELY WITH ALL BRACING, FOUNDATIONS, ANGLES, CHANNELS, HANGERS, ETC.
- D. SPECIALLY DESIGNED HANGERS SHALL BE FABRICATED AND INSTALLED PER ANSINMSS SP-89.

3.8 INSULATION:

- A. DUCT INSULATION:
 1. FLEXIBLE BLANKET WRAP INSULATIONS SHALL HAVE LONGITUDINAL AND TRANSVERSE JOINTS IN JACKET SEALED BY CEMENTING AND OVERLAP OF JACKETING, OR AN OVERLAPPING STRIP OF JACKET MATERIAL, NO STAPLING AND/OR DUCT TAPE WILL BE PERMITTED. VAPOR SEAL JACKET TO ALL HANGER STRAPS AND SIMILAR PENETRATIONS, AND EDGES AT ACCESS DOORS AND THE LIKE.

3.9 AS-BUILT DRAWINGS:

- A. MAKE ALL NECESSARY MEASUREMENTS OF THE ACTUAL INSTALLED LOCATIONS OF THE INSTALLED SYSTEMS AND COMPONENTS AS THE WORK PROGRESSES AND KEEP ACCURATE RECORDS OF THESE FIELD MEASUREMENTS, SHOW LOCATIONS BY DIMENSION FROM PERMANENT, READILY IDENTIFIABLE REFERENCE POINTS SUCH AS BUILDING WALLS, COLUMNS, ETC., UPON COMPLETION OF THE PROJECT, DELIVER TO THE OWNER MARKED TRACINGS SHOWING THE ACTUAL INSTALLED LOCATIONS, DEPTHS AND SIZES OF ALL INSTALLED COMPONENTS.

MARK	DATE	DESCRIPTION
REVISIONS		
CLIENT		

MATA
MEMPHIS AREA TRANSIT AUTHORITY
MATA HEADQUARTERS
1370 LEEVE RD,
MEMPHIS, TN. 38108

**1364 N WATKINS
PACKAGE 1 -
RENOVATION**

Project No. 21670990
Date Issued 05.14.2021
Drawing Scale 12" = 1'-0"
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DRAWING TITLE

SPECIFICATIONS - MECHANICAL

SEALS

ALL PLUMBING LEGEND

NOT ALL SYMBOLS MAY BE USED

Table with columns: SYMBOL, ABB., DESCRIPTION, SYMBOL, ABB., DESCRIPTION. Lists plumbing symbols for various systems like Domestic Cold Water, Hot Water, Gas, and Ventilation.

PLUMBING FIXTURE CONNECTION SCHEDULE

NOTES:

- 1. BRANCH CONNECTION SIZES ARE INDICATED. REFER TO FLOOR PLANS FOR MAIN PIPING SIZES. 2. ALL FAUCETS SHALL BE NON-AERATING SPRAY... 16. PROVIDE INSULATION KIT ON EXPOSED DRAIN AND SUPPLY ON ADA FIXTURES.

Table with columns: DESIGNATION, FIXTURE DESCRIPTION, COLD WATER, HOT WATER, DRAIN, VENT, NOTES. Lists fixture types like Floor Drain, Water Closet, Lavatory, and Sinks with their specifications.

SHOCK ARRESTOR SCHEDULE

GENERAL NOTES:

- 1. ALL ARRESTORS SHALL BE SIZED AND LOCATED PER PDI STANDARDS.

Table with columns: P.D.I. SYMBOL, FIXTURE UNITS, SIZE, MANUFACTURER, MODEL NUMBER. Lists shock arrestor specifications for various fixture units.

SHEET INDEX - PLUMBING

Table with columns: NUMBER, SHEET NAME. Lists sheet numbers and titles like Plumbing General Notes, Schedules, Legend and Index.

PLUMBING GENERAL NOTES

- A. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS AND ALL BUILDING SERVICES... K. PROVIDE INSULATION KIT FOR SUPPLIES, TRAP AND DRAIN PIPING FOR ALL HANDICAP ACCESSIBLE LAVATORIES AND SINKS...

PLUMBING DEMOLITION NOTES

- A. CONTRACTOR SHALL REMOVE EXISTING SERVICES SUCH AS WATER, WASTE AND VENT PIPING SERVING FIXTURES AND/OR CONNECTIONS TO EQUIPMENT WHICH ARE SHOWN ON THE DRAWINGS TO BE REMOVED OR RELOCATED... H. EXISTING FIXTURES, EQUIPMENT CONNECTIONS AND SERVICE LINES SHALL BE FIELD VERIFIED FOR EXACT LOCATION AND SIZE.

SITE UTILITY NOTES - EXISTING CONSTRUCTION

- A. DRAWINGS SHOW ONLY KNOWN EXISTING UTILITIES REQUIRED TO PROVIDE SERVICES TO THIS PROJECT. SUBSURFACE INVESTIGATION HAS NOT BEEN PERFORMED... B. CONTRACTOR SHALL FIELD LOCATE AND VERIFY EXACT SIZES AND MATERIAL TYPES OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

PIPING MATERIALS SCHEDULE

GENERAL NOTES:

- 1. TYPE NOTE HERE.

Table with columns: PLUMBING SYSTEM, PLUMBING MATERIAL DESCRIPTION. Lists piping materials for Sanitary Drain, Vent, and Domestic Water Piping.

MARK DATE DESCRIPTION

REVISIONS

CLIENT



MEMPHIS AREA TRANSIT AUTHORITY MATA HEADQUARTERS 1370 LEVEE RD, MEMPHIS, TN. 38108

PROJECT NAME

1364 N WATKINS PACKAGE 1 - RENOVATION

Project No. 21673000 Date Issued 05.14.2021 Drawing Scale 1/8" = 1'-0" Copyright © 2021 brg3s

DRAWING TITLE

PLUMBING GENERAL NOTES, SCHEDULES, LEGEND AND INDEX

SEALS



SHEET ID

CONSTRUCTION DOCUMENTS

P001

PLUMBING SPECIFICATIONS

PART 1 GENERAL

1.1 REQUIREMENT:

- APPLICABLE PROVISION OF GENERAL CONDITIONS OF DIVISION 1, GENERAL REQUIREMENTS COVER ALL WORK SPECIFIED IN THIS SECTION.
- REFER TO ARCHITECTURAL DRAWINGS FOR APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS OF DIVISION 1, ARCHITECTURAL DRAWINGS FOR APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS.
- REFER TO DRAWINGS FOR GENERAL REQUIREMENTS APPLYING, BUT NOT LIMITED TO THE FOLLOWING:
 - INSPECTION OF SITE.
 - VERIFICATION OF UTILITIES AND SERVICES.
 - REQUIREMENTS OF REGULATORY AGENCIES.
 - DRAWINGS.
 - SAFETY DEVICES.
 - SHOP DRAWINGS.
 - GUARANTEE.

1.2 SCOPE OF WORK INCLUDED:

- WORK SHALL INCLUDE ALL CONSTRUCTION IN CONNECTION WITH PLUMBING AND FIRE PROTECTION AS SPECIFIED ON DRAWINGS IN THIS SECTION.
- WORK SPECIFIED UNDER THIS SECTION INCLUDES FURNISHING OF AND PAYING FOR ALL MATERIALS, LABOR, EQUIPMENT LICENSES, TAXES, AND OTHER ITEMS REQUIRED FOR EXECUTION AND COMPLETION OF ALL WORK INDICATED.
- EVERYTHING NECESSARY FOR A COMPLETE AND SATISFACTORY INSTALLATION INCLUDING ALL NECESSARY PARTS, DEVICES, ACCESSORIES, ETC., REQUIRED BY CODES OR THAT MAY BE REQUIRED TO SATISFACTORILY COMPLETE THE INSTALLATION OF THE ABOVE ITEMS SHALL BE PROVIDED.

1.3 RELATED WORK UNDER OTHER DIVISIONS OF THE CONTRACT:

- CONCRETE PADS AND FOUNDATIONS - REF. STRUCTURAL
- POWER AND CONTROL WIRING - REF. ELECTRICAL

1.4 REFERENCE STANDARDS:

- ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING PERTINENT STANDARDS AND LEGAL CODES AND ORDINANCES:
 1. INTERNATIONAL BUILDING CODE AND PUBLICATIONS REFERRED TO THEREIN
 2. LIFE SAFETY CODE, NFPA NO. 101
 3. OSHA SAFETY AND HEALTH ACT (OSHA)
 4. STATE, COUNTY, AND LOCAL PLUMBING CODES
 5. NATIONAL ELECTRICAL CODE (NEC)
 6. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
 7. AMERICAN WATER WORKS ASSOCIATION (AWWA)
 8. AMERICAN SOCIETY FOR TESTING AND MATERIAL (ASTM)
 9. CAST IRON PIPE AND FITTINGS (CIPFA)
 10. NATIONAL SANITATION FOUNDATION TESTING LABORATORY (NSF)
 11. PLUMBING DRAINAGE INSTITUTE (PDI)
 12. STANDARDS AND SPECIFICATIONS LISTINGS, UNDERWRITERS LABORATORIES
 13. FOR WORK NOT SPECIFICALLY LISTED ABOVE, USE THE STANDARDS AND CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

1.5 INSPECTION OF THE SITE:

- BIDDERS SHALL VISIT THE SITE OF THE WORK BEFORE SUBMITTING BIDS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF ALL WORK TO BE DONE INCLUDING REQUIREMENTS OF LOCAL AUTHORITIES TO MEET WITH THEIR PROCEDURES OR CODES.

1.6 VERIFICATION OF UTILITIES AND SERVICES:

- IMMEDIATELY UPON COMMENCING CONSTRUCTION, AND PRIOR TO CONSTRUCTION OF ANY PART OF THE FACILITY INVOLVED IN ANY WAY WITH UTILITIES, INVESTIGATE THOROUGHLY THE SIZE, CAPACITY, ARRANGEMENT AND LOCATION OF UTILITIES. REPORT ANY DISCREPANCIES OR APPARENT PROBLEM INVOLVING THE PROJECT THAT PERTAIN TO UTILITIES. THIS APPLIES TO PRIVATE AS WELL AS PUBLIC UTILITIES. COORDINATE WITH LOCAL UTILITY SERVICE PROVIDER FOR EXTENSION OF ALL NECESSARY UTILITY CONNECTIONS, SETTING OF METERING EQUIPMENT, AND PAY ALL COSTS INCURRED THEREBY.

1.7 REQUIREMENTS OF REGULATORY AGENCIES:

- WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH ALL LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK AND SHALL INCLUDE ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, ROYALTIES, TAXES, AND OTHER SIMILAR COSTS IN CONNECTION THEREWITH. IF THE DRAWINGS OR SPECIFICATIONS ARE AT VARIANCE WITH ABOVE MENTIONED LAWS, RULES AND REGULATIONS, NOTIFY THE ENGINEER IN WRITING SO ANY NECESSARY CHANGES CAN BE PROVIDED PRIOR TO CONTRACT.
- IF THE CONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO SUCH LAWS, RULES, ORDINANCES, AND REGULATIONS, HE SHALL BE RESPONSIBLE FOR BEARING COSTS ARISING THEREFROM. THE DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, ORDINANCES, OR STATUTES IN EFFECT.
- APPLICABLE CODES, ORDINANCE, STANDARDS AND STATUTES TAKE PRECEDENCE WHERE THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.

1.8 INSTRUCTION OF OWNER:

- WHEN THE SYSTEM IS IN COMPLETE OPERATION, AND PRIOR TO DATE OF FINAL COMPLETION, AN APPROVED QUALIFIED ENGINEER, TECHNICIAN, OR MECHANIC, FOR A PERIOD OF FOUR (4) MAN-HOURS TO INSTRUCT THE OWNER, OR HIS AUTHORIZED PERSONNEL, IN OPERATION AND MAINTENANCE OF ALL SYSTEMS INSTALLED UNDER THIS SECTION OF WORK, OR RELATED WORK UNDER OTHER SECTIONS.
- REVIEW OPERATING AND MAINTENANCE MANUAL. IDENTIFY ALL CONTROLS AND ALL LUBRICATION POINTS, DEMONSTRATE START, STOP, AND ADJUSTMENTS OF ALL SYSTEMS AND EQUIPMENT.

1.9 DRAWINGS:

- IT IS INTENDED THAT ALL EQUIPMENT AND PIPING BE LOCATED SYMMETRICALLY WITH ARCHITECTURAL ELEMENTS, AND SHALL BE INSTALLED AT EXACT HEIGHT AND LOCATIONS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- BE ACQUAINTED WITH ANY AND ALL PECULIARITIES AND LIMITATIONS OF THE SPACES AVAILABLE FOR THE INSTALLATION OF ALL WORK AND MATERIALS FURNISHED AND INSTALLED UNDER THIS SECTION OF THE WORK. HE SHALL REPORT ANY DISCREPANCIES OR INTERFERENCES THAT ARE DISCOVERED, FAILURE TO REPORT SUCH DISCREPANCIES AND INTERFERENCES SHALL RESULT IN THE CORRECTING OF THESE ERRORS OR OMISSIONS BY THIS SECTION AT HIS OWN EXPENSE. ALL WORK INSTALLED UNDER THIS SECTION WHICH DEVIATES FROM THE DRAWINGS AND SPECIFICATION WITHOUT PRIOR APPROVAL, SHALL BE ALTERED BY THIS SECTION AT HIS OWN EXPENSE, TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS AS DIRECTED.
- THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT REFLECT ALL OFFSETS OR CHANGES OF DIRECTION OR ELEVATION TO COORDINATE WITH THE ACTUAL CONSTRUCTION OF THE PROJECT. CONTRACTOR SHALL COORDINATE WITH THE ACTUAL CONDITIONS PRESENTED DURING CONSTRUCTION TO ENSURE THE INTENT OF THE DESIGN IS MET.

1.10 SAFETY DEVICES:

- CONTRACTOR SHALL FURNISH AND INSTALL SAFETY GUARDS FOR ALL DANGEROUS MOVING PARTS SUCH AS BELTS AND PULLEYS, FLEXIBLE SHAFT CONNECTIONS AND THE LIKE, AND SHALL PROVIDE ALL REQUIRED SAFETY CONTROLS TO PREVENT DANGEROUS OR DAMAGING OPERATION OF EQUIPMENT.

1.11 SHOP DRAWINGS (SUBMITTALS):

- EQUIPMENT SUBMITTALS:
 1. SIX COPIES OF SHOP DRAWINGS AND/OR MANUFACTURER'S DESCRIPTIVE DATA OF A NATURE TO COMPLETELY IDENTIFY THE EQUALITY OF THE MATERIALS AND EQUIPMENT INTENDED FOR INSTALLATION SHALL BE SUBMITTED FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION AND WITHIN THIRTY (30) DAYS AFTER SIGNING CONTRACT. FAILURE FOR APPROVAL WITHIN THIRTY DAYS TIME LIMIT WILL BE CONSTRUED AS MEANING EQUIPMENT CALLED FOR BY NAME WILL BE FURNISHED. DATA SHALL BE ORGANIZED IN SAME ORDER AS LISTED BELOW. SHALL BE SUBMITTED ON ONE BROCHURE, INDEXED BY FLY SHEET ON FRONT PAGE, AND BE BOUND IN SETS, ALL SETS IDENTICAL. NO EXCEPTION WILL BE MADE TO THIS PROCEDURE AND TIME SCHEDULE.
 2. EACH ITEM SUBMITTED FOR REVIEW SHALL BE MARKED AND HAVE SUBMITTAL DATA PRECEDED BY A TYPEWRITTEN DESCRIPTION (BY CONTRACTOR OR ITEM SUPPLIER) OF THE ITEM, DESCRIBING THE ITEM AND MODEL NUMBERS, AND SHALL DESCRIBE THE ITEM, LIST ALL OPTIONS AND ACCESSORIES WHICH ARE INCLUDED. LIST ANY OPTIONS OR ACCESSORIES SHOWN ON SHOP DRAWINGS WHICH ARE NOT INCLUDED.
 3. SUBMIT THE FOLLOWING FOR APPROVAL, REFERRING TO THE VARIOUS SECTIONS OF THIS SPECIFICATION FOR SPECIFIC ITEMS: (AS APPLICABLE)
 - a. PIPE INSTALLATION, PIPE HANGERS, PIPE IDENTIFICATION LABELS
 - b. VALVES AND STRAINERS
 - c. PIPING SPECIALTIES
 - d. PIPE AND FITTINGS
 - e. WATER HEATERS
 - f. DRAINS
 - g. CLEANOUTS
 - h. HYDRANTS
 - i. FIXTURES
 - j. CARRIERS
 - k. INSULATION

1.12 GUARANTEE:

- ALL WORK PERFORMED UNDER THIS DIVISION SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FROM DATE OF SUBSTANTIAL COMPLETION OF SUCH WORK AS FOLLOWS:
 - IN ADDITION TO THE STANDARD ONE (1) YEAR GUARANTEE SPECIFIED, THE CONTRACTOR PERFORMING THE WORK UNDER THIS SECTION SHALL GUARANTEE REFRIGERATION COMPRESSOR (MATERIAL AND LABOR) AGAINST FAILURE FOR A PERIOD OF FIVE (5) YEARS, AND LOSS OF REFRIGERANT AND OIL SHALL BE INCLUDED IN THE GUARANTEE.

1.13 COORDINATION:

- COORDINATE ALL WORK WITH THAT OF THE OTHER TRADES ON THE JOB AND ALSO WITH THAT OF THE OWNER, IN ORDER THAT THERE WILL BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF THE WORK. ANY COST FOR EXTRA WORK OR MATERIALS RESULTING FROM LACK OF COORDINATION OF WORK PERFORMED UNDER THIS SECTION SHALL BE BY THIS SECTION.

1.14 WORKMANSHIP, MATERIALS AND EQUIPMENT:

- ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED. ALL MATERIALS SHALL BE OF TYPE, QUALITY, AND OF MINIMUM RATINGS PRESCRIBED HEREIN OR AS INDICATED ON THE PLANS.

1.15 MANUFACTURER'S RECOMMENDATIONS:

- ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER OF SUCH MATERIAL AND EQUIPMENT.
- IN THE EVENT OF DISCREPANCY BETWEEN MANUFACTURER'S RECOMMENDATIONS AND ANY REQUIREMENTS OF DRAWINGS OR SPECIFICATIONS, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IN ORDER THAT THE MATTER CAN BE CLEARED UP PRIOR TO ANY INSTALLATION OF MATERIALS OR EQUIPMENT.

1.16 PROTECTION OF WORK:

- PROTECT WORK AT ALL TIMES FROM DANGER BY FREEZING, BREAKAGE, DIRT, FOREIGN MATERIALS, ETC., AND REPLACE ALL WORK SO DAMAGED, USE EVERY PRECAUTION TO PROTECT THE WORK OF OTHERS, AND BE RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY WORK OF, OR THROUGH THE NEGLECT OF WORKMEN UNDER THIS SECTION OF THE SPECIFICATIONS.

1.17 UTILITY CONNECTIONS:

- COORDINATE WITH THE LOCAL UTILITY COMPANY TO PROVIDE TAPPING OF EXISTING UTILITY MAINS AND TO EXTEND SERVICES TO LOCATION AS INDICATED, SET METERING EQUIPMENT COMPLETE WITH VALVES, ETC. PAY ALL COST FOR SUCH SERVICE. USE OF TAP PRIMER OR PRESSURE OF PIPE SYSTEM USED ON WHICHEVER IS HIGHER. GATE, GLOBE AND BALL VALVE SHALL BE REPAACKABLE WHILE OPEN AND UNDER PRESSURE. BALL VALVES SHALL HAVE BLOW OUT PROOF STEMS.

1.18 EQUIPMENT/PIPING SUPPORTS:

- FURNISH AND ERECT ALL NECESSARY STEEL, MEMBERS, FRAMES, CONNECTIONS, ETC. TO SUPPORT EQUIPMENT AND PIPING INSTALLED UNDER THIS SECTION, REGARDLESS OF WHETHER THE DRAWINGS INDICATE SUPPORT DETAILS OR NOT. COORDINATE WITH GENERAL CONTRACTOR TO DETERMINE WHICH SUPPORTS ARE BEING FURNISHED BY OTHER SECTIONS.
- PROVIDE CONCRETE PADS, CURBS, ETC. FOR SUPPORT OF EQUIPMENT AND PIPING INSTALLED UNDER THIS SECTION, WHETHER SHOWN ON DRAWINGS OR NOT. EXCEPT WHERE SUPPORTS ARE REQUIRED TO BE FURNISHED AND INSTALLED BY OTHER SECTIONS OF THE SPECIFICATIONS. COORDINATE RESPONSIBILITY WITH GENERAL CONTRACTOR.
- PROVIDE VIBRATION ABSORBING, MOUNTING DEVICES DESIGNED TO PREVENT ALL TRANSMISSION OF VIBRATION AND NOISE TO THE BUILDING STRUCTURE.

1.19 PATCHING:

- PERFORM ALL CUTTING REQUIRED FOR THE INTRODUCTION AND PLACEMENT OF WORK, CUTTING AND PATCHING REQUIRED AS A RESULT OF THE OMISSION OF AN OPENING IN CONSTRUCTION SHALL BE DONE AT THIS SECTION'S EXPENSE.

1.20 PAINTING AND IDENTIFICATION:

- THE FOLLOWING PROTECTIVE PAINTING AND IDENTIFICATION OF EQUIPMENT AND PIPING SHALL BE PROVIDED UNDER THIS DIVISION OF THE WORK. OTHER FINISH PAINTING SHALL BE PROVIDED UNDER THE "PAINTING" DIVISION OF THE PROJECT SPECIFICATION MANUAL.

2.1 MATERIALS:

- FABRICATED EQUIPMENT AND ASSEMBLED UNITS SHALL BE FURNISHED WITH FACTORY APPLIED, PROTECTIVE, PRIME COAT PAINT OF FINISHED BAKED ENAMEL, AS SPECIFIED HEREIN. EQUIPMENT SURFACES DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REFINISHED BY THE CONTRACTOR.
- UNLESS SPECIFIED OTHERWISE IN DIVISION 9, "FINISHES," THIS DIVISION SHALL PAINT ALL PIPING, AND SUPPORTS WHICH ARE EXPOSED TO VIEW, PRIMING AND PAINTING SHALL BE AS SPECIFIED IN DIVISION 9, "FINISHES."
- DETACHED MOTOR CONTROLLERS, DISCONNECTS, ETC., SHALL BE IDENTIFIED WITH MECHANICALLY FASTENED METAL OR PLASTIC PLATES WITH ETCHED LETTERS TO COMPLETELY IDENTIFY THE SERVICE OF THE ELECTRICAL EQUIPMENT. ALL MECHANICAL PIPING SHALL BE CLEARLY IDENTIFIED WITH STRAP-ON LABELS AND FLOW ARROWS.
- ALL PLUMBING/FIRE PROTECTION EQUIPMENT SHALL BE CLEARLY MARKED WITH IDENTIFICATION.

2.2 ADJUSTMENTS:

- UPON COMPLETION OF THE INSTALLATION OF ALL WORK AND EQUIPMENT, THE CONTRACTOR SHALL START ALL EQUIPMENT AND MAKE ALL NECESSARY ADJUSTMENTS TO PLACE ENTIRE SYSTEMS IN A SATISFACTORY CONDITION FOR CONTINUOUS SAFE OPERATION.

2.3 CONTRACTOR'S TEST AND BALANCE:

- RECIRCULATING SYSTEM SHALL BE TESTED.

2.4 CLEAN-UP:

- KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY EMPLOYEES OR WORK UNDER THIS SECTION OF THE SPECIFICATIONS. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC., AND LEAVE THE PREMISES "BROOM-LEAN".

2.5 OPERATING AND MAINTENANCE INSTRUCTIONS:

- FURNISH AND TURN OVER TO A/E THREE (3) COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS. TO INCLUDE:
 1. COMPLETE SET OF APPROVED SUBMITTAL DATA ON INSTALLED EQUIPMENT, TO INCLUDE FINAL TEST AND BALANCE REPORT, AS BUILT TEMPERATURE CONTROL DIAGRAMS AND WIRING DIAGRAMS.
 2. OPERATING INSTRUCTIONS ON ALL EQUIPMENT HAVING MOVING PARTS, TO INCLUDE LUBRICATING INSTRUCTIONS AND RECOMMENDED MAINTENANCE AND INSPECTION SCHEDULE.
 3. PARTS LISTS ON ALL EQUIPMENT, ALONG WITH NAME, ADDRESS, AND TELEPHONE NUMBER OF SOURCE OF PURCHASE OR LOCAL REPRESENTATIVE.
 4. COPIES OF ALL WARRANTIES OR GUARANTEES.
 5. COPIES OF INSTALLATION INSTRUCTIONS WHEN FURNISHED WITH EQUIPMENT.
- INSTRUCTIONS SHALL BE IN HARD COVER BINDER WITH INDEX. INSERT IN ORDER AS LISTED HEREIN.

PART 2 PRODUCTS

2.1 MATERIALS AND EQUIPMENT:

- MATERIALS AND/OR EQUIPMENT INVOLVED IN THE SPECIFIED INSTALLATION SHALL BE OF THE BEST FOR THE PURPOSE INTENDED AND SHALL MEET WITH THE APPROVAL OF THE OWNER. THE OWNER RESERVES THE RIGHT TO SELECT ANY MATERIALS AND WORKMANSHIP NOT IN ACCORDANCE WITH THOSE SPECIFIED OR NOT MEETING WITH THE ENGINEER'S APPROVAL, EITHER BEFORE OR AFTER INSTALLATION.
- MATERIALS AND/OR EQUIPMENT SPECIFIED HEREIN TO BE OF A CERTAIN MANUFACTURE OR BRAND ARE USED AS A STANDARD AND MATERIALS AND/OR EQUIPMENT OF OTHER MANUFACTURE MAY BE SUBMITTED FOR SUBSTITUTION PROVIDED THAT THEY MEET OR EXCEED QUALITY AND ALL CAPACITIES SPECIFIED AND SPACE REQUIREMENTS SHOWN ON THE DRAWINGS.

2.2 PIPING MATERIALS:

- PIPING MATERIALS SHALL BE AMERICAN MADE AND THE MANUFACTURER SHALL BE APPROVED BY THE ARCHITECT/ENGINEER. CERTIFICATION TO BE PROVIDED WHEN REQUESTED.
- SOIL, WASTE, AND VENT PIPING AND FITTINGS INSIDE OF BUILDING BELOW GRADE SHALL BE STANDARD WEIGHT CAST IRON BELL AND SPIGOT DUV SOIL PIPE, COATED WITH POLYETHYLENE. JOINTS CONFORMING TO THE LATEST ISSUE OF ASTM A-74. JOINTS FOR CAST IRON SOIL PIPE AND FITTINGS WITH HUBS AND PLAIN-END SPIGOTS SHALL BE MADE WITH POSITIVE DOUBLE SEAT ELECTRORETIC COMPRESSION-TYPE GASKETS CONFORMING TO ASTM C294, LATEST ISSUE.
- SOIL, WASTE, AND VENT PIPING AND FITTINGS INSIDE OF BUILDING ABOVE GRADE SHALL BE CAST IRON HUMBLETS DWV SOIL PIPE, MEETING THE CAST IRON PIPE INSTITUTE STANDARD 301-75 OR LATEST REVISION THEREOF, WITH CLAMP ASSEMBLY FOR HUBLESS PIPE MEETING GP1 301 OR LATEST REVISION THERE OF AND SHALL BEAR THE REGISTERED INSIGNIA C.1.
- DOMESTIC WATER PIPING:
 1. HOT AND COLD WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS ABOVE GROUND.
 2. WATER LINES (TAP PRIMER) INSTALLED UNDERGROUND SHALL BE TYPE "K" COPPER WITH NO JOINTS.
- CONDENSATE DRAIN PIPING:
 1. CONDENSATE DRAIN PIPE SHALL BE TYPE "M" COPPER WITH DWV FITTINGS.

2.3 UNIONS:

- UNIONS FOR COPPER PIPE 2 INCH AND SMALLER SHALL BE WROUGHT COPPER ON THE COPPER SWEAT END AND RED CAST BRASS RING NUT AND THREAD PIECE. UNIONS 2 INCH AND SMALLER SHALL BE NIBCO NO. 633 OR EQUAL.
- UNIONS, 2 INCHES AND SMALLER SHALL BE OF MALLEABLE GROUND JOINT PATTERN WITH BRASS-TO-IRON SEAT. LARGER UNIONS SHALL BE OF CAST IRON, MALLEABLE IRON, OR FORGED STEEL OF FLANGE-AND-GASKET TYPE WITH RING OR FACE GASKET OF SUCH COMPOSITION AS WILL BE ENTIRELY SUITABLE FOR THE FLUID SERVICE.
- DIELECTRIC TYPE UNIONS SHALL BE PROVIDED AT JUNCTION OF PIPING OF DIFFERENT MATERIAL.

2.4 VALVES:

- VALVES SHALL BE OF A SINGLE MANUFACTURER INsofar AS APPLICABLE AND SHALL BE APPROVED STANDARD WEIGHT VALVES SUITABLE FOR A MINIMUM WORKING PRESSURE OF 125 PSI SWP OR PRESSURE OF PIPE SYSTEM USED ON WHICHEVER IS HIGHER. GATE, GLOBE AND BALL VALVE SHALL BE REPAACKABLE WHILE OPEN AND UNDER PRESSURE. BALL VALVES SHALL HAVE BLOW OUT PROOF STEMS.
- BALL VALVES SHALL HAVE A 400 LB. WATER RATING, RING BALL DESIGN, CONVENTIONAL PORT, THREE PIECE CONSTRUCTION, AND ANTI BLOWOUT STEM. WELD SCREWED CONNECTIONS FOR STEEL PIPE, AND SOLDER CONNECTIONS FOR COPPER PIPE, 2 1/2" AND SMALLER.
- CHECK VALVES 2 INCHES AND SMALLER SHALL BE BRONZE BODY WITH SOLDER OR SCREW-END CONNECTIONS AS APPLICABLE AND SHALL BE OF THE HORIZONTAL SWING CHECK TYPE WITH TEFLOON DISKS. HANGER PINS SHALL BE SUPPORTED AT BOTH ENDS BY REMOVABLE SIDE PLUGS.
- BALL AND CHECK VALVES SHALL BE NIBCO, CRANE, MILWAUKEE, OR EQUAL AND SHALL BE INSTALLED AS RECOMMENDED BY VALVE MANUFACTURER. VALVES SHALL BE SIMILAR TO THE FOLLOWING:

	CRANE	NIBCO	MILWAUKEE
BALL VALVES	--	T-590	BA-300
2 1/2" & SMALLER	--	S-590	BA-350
CHECK VALVES	37(T)	T-413-Y	508
2 INCH & SMALLER		S-413-Y	507
SYSTEM DRAIN VALVE #3			
- HYDRANTS FOR INSTALLATION ON EXTERIOR WALLS SHALL BE NON-FREEZE TYPE WITH 3/4" HOSE CONNECTION, INTEGRAL VACUUM BREAKER, KEY OPERATED VALVE AS LISTED BELOW, COVER TO BE NICKEL BRASS WITH BRONZE CASING.

2.5 DRAINS:

- FLOOR DRAINS SHALL BE AS MANUFACTURED BY JOSAM, WADE, OR ZURN, EQUAL TO DRAINS SPECIFIED BY WADE CATALOG NUMBERS ON PLAN. HYDRANTS, FLOOR DRAINS AND CLEANOUTS SHALL BE OF SAME MANUFACTURER UNLESS NOTED OTHERWISE.
- CONDENSATE DRAIN PIPING SHALL HAVE "LEAD FREE" 95.5% TIN, 4.5% COPPER AND .5% SILVER SOLDERED JOINTS. CONTRACTOR SHALL PROVIDE ADAPTERS TO MATCH AIR CONDITIONING EQUIPMENT. DRAIN SHALL BE EXTENDED AND/OR COLLECTED INTO TWO COATS OF ASPHALTUM WITH GLASS CLOTH EMBEDDED AFTER FIRST COAT.
- TEMPERATURE AND PRESSURE RELIEF VALVES SHALL BE "WATTS" OR EQUAL WITH SETTINGS AS REQUIRED BY LOCAL CODE AND/OR OTHER CODES HAVING JURISDICTION, FURNISH AS INDICATED OR AS REQUIRED.

2.7 WATER HAMMER:

- SHOCK STOPS/ARRESTORS SHALL BE INSTALLED WHERE INDICATED ON THE D DRAWINGS AND SHALL BE APPROVED BY PLUMBING DRAINAGE INSTITUTE (PDI). SEE SCHEDULE.

2.8 CLEANOUTS:

- CLEANOUTS SHALL BE PROVIDED IN WASTE AND DRAINAGE LINES WHERE INDICATED ON DRAWINGS AND/OR AS REQUIRED BY PLUMBING CODE. CLEANOUTS SHALL BE SIZED SAME AS FOR PIPE IN WHICH INSTALLED, EXCEPT NO CLEANOUT NEED BE LARGER THAN 4" DIAMETER.
- CLEANOUTS FOR EXPOSED PIPING WHERE INSTALLED IN CAST IRON PIPING SHALL CONSIST OF RAISED HEAD CAST BRASS PLUG WITH CAULKING FERRULE AS LISTED BELOW. THEY SHALL BE SCHEDULE 40 STEEL PIPE WITH FINISHED ENDS.
- CAST IRON CLEANOUT
 - a. 2 INCH AND SMALLER - GRINNELL FIG. 104 ADJUSTABLE SPLIT RINGS.
 - b. OVER 2 INCH - GRINNELL FIG.280 STEEL CUVIT.
 - c. WHERE PIPES ARE GROUPEU, USE OF "UNISTRUT" RACKS AND BRACKETS WILL BE PERMISSIBLE.
- CLEANOUTS FOR EXPOSED PIPING WHERE INSTALLED IN TAPPED DRAINAGE FITTING, TAPPED DRAINAGE CLEANOUT
 - a. WADE W-8590-A
- ACCESS COVERS FOR CLEANOUTS IN WALLS SHALL HAVE STAINLESS STEEL COVER ATTACHED TO PLUG WITH COUNTERSUNK PLATED BRASS SCREW AS LISTED BELOW. WALL CLEANOUTS
 - a. WADE W-8470-R
- CLEANOUTS INSTALLED IN FLOOR SLABS SHALL HAVE SCORRIATED NICKEL PLATED FLUSH ACCESS COVER AND MATCHING FLANGE FOR FLUSH MOUNTING AS LISTED BELOW. ALL CLEANOUT CAPS TO BE WIPEW WITH "KEY GREASE" FOR EASY REMOVAL.
- FLOOR CLEANOUTS/CONCRETE) -WADE W-6000-NB
FLOOR CLEANOUT(TILE) -WADE W-6000-SNB
FLOOR CLEANOUT(CARPET) -WADE W-6000-PB WITH NB-CM
- FOR INSTALLATION IN EXTERIOR PIPING, CLEANOUTS FLUSH WITH FINISH GRADE SHALL CONSIST OF CAST IRON ADJUSTABLE HEAD, SERRATED CUTOFF FERRULE, BRASS COUNTER SUNK HEAD INTERNAL PLUG, HEAVY SCORRIATED C.I. COVER WITH POLISHED BRONZE TOP MARKED "C.O." AS LISTED BELOW, INSTALLED IN CONCRETE PAD 12"x12"x9" DEEP, TOP OF PAD TO BE FLUSH WITH FINISH GRADE.
- EXTERIOR CLEANOUTS - WADE W-8002Z

2.9 WATER HEATER:

- REFER TO DRAWINGS FOR WATER HEATER MODEL NUMBER.

2.10 HANGERS AND SUPPORTS:

- PIPING SHALL BE HUNG FROM STRUCTURE BY ADJUSTABLE HANGERS, PER ANS/MSS STANDARD 88. SPREADS AND SPACERS AS NOTED WITH ADDITIONAL SUPPORTS FOR VALVES AND SPECIALTIES, OR AT JOINTS SO ADJUSTMENTS FOR FITCH CAN BE MADE AFTER INSTALLATION. REFERENCES ARE TO GRINNELL FIGURE NUMBERS. COMPARABLE PRODUCTS OF F & S, ELGEN, MICHIGAN, OR B.L.NE ARE ACCEPTABLE.
- FERRROSS PIPE (HORIZONTAL)
 - a. 2 INCH AND SMALLER - GRINNELL FIG. 104 ADJUSTABLE SPLIT RINGS.
 - b. OVER 2 INCH - GRINNELL FIG.280 STEEL CUVIT.
 - c. WHERE PIPES ARE GROUPEU, USE OF "UNISTRUT" RACKS AND BRACKETS WILL BE PERMISSIBLE.
- COPPER TUBING (HORIZONTAL)
 - a. 1/2 INCH TO 1/8 INCH SIZE - GRINNELL FIG. 280 WITH FIG 81 INSULATION PROTECTORS, LENGTH AND GAUGE AS RECOMMENDED BY MANUFACTURER.
 - b. VERTICAL PIPING (LONG WALLS)
 - a. STEEL, 1 INCH AND SMALLER - ANCHOR MIDWAY BETWEEN FLOOR AND CEILING WITH GRINNELL FIG. 103 STEEL OFFSET PIPE CLAMPS.
 - b. COPPER TUBING, 1 INCH AND SMALLER - ANCHOR MIDWAY BETWEEN FLOOR AND CEILING WITH GRINNELL FIG. CT-138R SPLIT RING EXTENSION.
- ROD SUSPENSION-SUSPEND HANGER RODS FROM SUPPORTS AS LISTED HEREIN. FIGURE NUMBERS USED REFER TO GRINNELL CATALOGS, COMPARABLE PRODUCTS OF F & S, ELGEN, MICHIGAN OR B.L.NE ARE ACCEPTABLE. WIRE FASTENINGS SHALL NOT BE USED.
- STEEL BEAMS: FIG. 217, 218, 225 OR 227 BEAM CLAMPS
- STEEL JOISTS: FIG. 64 CLAMP FASTEN TO TOP CHORD OF BAR JOIST WITH THREADED ROD AND HANGER WHEN PIPES PASS THROUGH BAR JOISTS, WHEN PARALLEL TO JOISTS PROVIDE AN ANGLE WELDED TO ADJACENT JOISTS FOR FASTENING OR HANGER ROD.
- PIPE ALONG WALLS: FIG. 194 OR 195 WELDED STEEL BRACKETS, DEPENDENT ON STRENGTH REQUIRED.

2.12 INSULATION:

- DOMESTIC WATER PIPING:
 1. COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK SECTIONAL PREFORMED 4.25 LB. DENSITY FIBERGLASS PIPE COVERING WITH FACTORY WHITE CREPE DRAFT JACKET WITH SELF-SEALING LAP. COLD WATER PIPING IN VENTILATED CHASIS, INDIVIDUAL FIXTURE SUPPLIES, ETC., SHALL NOT BE INSULATED. INSULATION SHALL BE CONTINUOUS ACROSS HANGER AND SUPPORTS. INSULATE AT FOLLOWING LOCATIONS:
 - a. ALL PIPING ABOVE CEILING.
 2. HOT WATER AND HOT WATER RETURN PIPING SHALL BE INSULATED WITH 1" THICK SECTIONAL PREFORMED 4.25 LB DENSITY FIBERGLASS PIPE COVERING WITH FACTORY WHITE CREPE DRAFT JACKET WITH SELF-SEALING LAP. INSULATE AT FOLLOWING LOCATIONS:
 - a. ALL PIPING.

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS:

- REFER TO PART 1 GENERAL FOR:
 1. COORDINATION
 2. WORKMANSHIP, MATERIALS AND EQUIPMENT
 3. MANUFACTURER'S RECOMMENDATIONS
 4. PROTECTION OF WORK
 5. UTILITY CONNECTIONS
 6. PATCHING
 7. PAINTING IDENTIFICATION
 8. ADJUSTMENTS
 9. JOINTS AND TEST AND BALANCE
 10. CLEAN-UP

3.2 VENT PIPE:

- INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO COMPLY WITH NFA-211 AND LOCAL CODE REQUIREMENTS. PROVIDE PROPER CLEARANCE FROM COMBUSTIBLES, USE VENTILATED THIMBLES AT FLOOR, ROOF, WALL, AND PARTITION PENETRATIONS.

3.3 PIPING INSTALLATION:

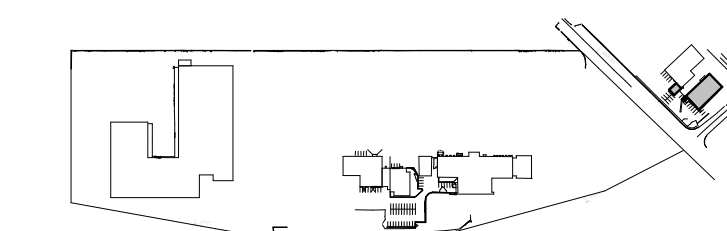
- FURNISH AND INSTALL ALL PIPING RELATED TO PLUMBING SYSTEM.
- ALL PIPING SHALL BE INSTALLED PARALLEL AND SQUARE WITH THE BUILDING LINES AND SHALL BE SLOPED TO PERMIT DRAINAGE, SUITABLE PROVISION FOR DRAINAGE AT ALL LOW POINTS SHALL BE PROVIDED. PIPING SHALL BE ARRANGED TO MAINTAIN HEADROOM AND KEEP PASSAGEWAYS CLEAR AND, WHERE NECESSARY, SHALL BE PROVIDED TO MAINTAIN THE REQUIRED CLEARANCES AND CONFORM WITH THE STRUCTURAL FEATURES OF THE BUILDING. CONTRACTOR SHALL DETERMINE IN ADVANCE OF CONSTRUCTION LOCATIONS FOR ALL PIPING, SLEEVES, HANGERS, ETC. NO ALLOWANCE WILL BE MADE FOR "EXTRAS" DUE TO INACURATE LOCATION OF SLEEVES, PIPING, OR EQUIPMENT.
- ALL PIPING SHALL HAVE PROVISIONS FOR EXPANSION AND CONTRACTION WITH ANCHORAGE AT EACH POINT SHOWN ON THE PLANS AND/OR AS REQUIRED.
- FULL LENGTH PIPE SHALL BE USED WHERE POSSIBLE. SHORT LENGTHS AND COUPLINGS WILL NOT BE PERMITTED. AFTER CUTTING, ALL PIPES SHALL BE REAMED OUT TO FULL BORE, AND BEFORE ERECTION, ALL CUTTINGS AND FOREIGN MATTER SHALL BE REMOVED FROM THE INSIDE OF PIPES. SCREWED JOINTS SHALL BE MADE TIGHT WITHOUT CAULKING OR THE USE OF LEAD OR PAINT, AND NO LUBRICANT SHALL BE USED EXCEPT TEFLON OR PASTE, APPLIED TO MALE THREADS ONLY.
- EVERY SECTION OF CAST IRON PIPE SHALL BE CHECKED FOR CRACKS. BELL LAND SPIGOT SHALL BE CLEAN BEFORE NEOPRENE IS INSTALLED AS REQUIRED BY MANUFACTURER OF PIPE WITH RECOMMENDED LUBRICANT. NO PIPING SHALL BE INSTALLED THAT DOES NOT COMPLY WITH LOCAL CODE.
- EVERY SECTION OF CAST IRON PIPE SHALL BE CHECKED FOR CRACKS. NEOPRENE SLEEVES, STAINLESS STEEL SHIELD AND CLAMP ASSEMBLY SHALL BE INSTALLED AND SCREWS TIGHTENED TO TORQUE AS RECOMMENDED BY MANUFACTURER OF CLAMP.
- DOMESTIC WATER PIPING:
 1. TYPE "L" COPPER SHALL BE INSTALLED WITH "LEAD FREE" 95.5% TIN, 4.5% COPPER AND .5% SILVER SOLDER AND NON-CORROSIVE FLUX.
 2. TYPE "K" COPPER SHALL BE INSTALLED WITH "SIL-FOS" BRAZING ALLOY WITH MELTING TEMPERATURE IN EXCESS OF 1100° F. CONTRACTOR SHALL MINIMIZE THE NUMBER OF FITTINGS BELOW GRADE. BURIED PIPE SHALL BE COATED WITH TWO COATS OF ASPHALTUM WITH GLASS CLOTH EMBEDDED AFTER FIRST COAT.

3.4 SLEEVES:

- PIPES PASSING THROUGH WALLS, PARTITIONS, FLOORS OR ROOFS SHALL BE PROTECTED BY STEEL SLEEVES THROUGH FULL THICKNESS OF CONSTRUCTION, ALLOW 1/2 INCH CLEARANCE AROUND PIPE OR COVERING AND TERMINATE FLUSH WITH FINISH SURFACE EXCEPT IN ROOMS CONTAINING FLOOR DRAINS OR IN WATERPROOFED FLOORS. SLEEVES IN FLOORS WITH DRAINS SHALL TERMINATE 1-1/2 INCHES ABOVE THE FLOOR. SLEEVES IN WATERPROOFED SLABS SHALL EXTEND SUFFICIENTLY SO WATERPROOFING CAN BE FLASHED AROUND THE SLEEVE.
- SLEEVES IN NON-BEARING PARTITIONS, OR NON-LOAD BEARING WALLS MAY BE 22 GAUGE SHEET STEEL OR HOLE-OUTS: IN BEARING WALLS, WATERPROOFED FLOORS, OR ROOFS, THEY SHALL BE SCHEDULE 40 STEEL PIPE WITH FINISHED ENDS.
- CAULK SLEEVES IN FLOOR WITH FIREPROOF MINERAL WOOL AND SEAL ENDS WITH FIREPROOF CALKING COMPOUND TO SEAL SPACE BETWEEN PIPE OR COVERING, AND THE SLEEVE. SLEEVES IN ROOF SHALL BE FLASHED AND MADE WATERTIGHT. PACK SLEEVES PASSING THROUGH FIRE WALLS OR FIRE RATED FLOORS WITH FIREPROOF MINERAL WOOL, AND SEAL ENDS WITH NON-HARDENING FIREPROOF CALKING COMPOUND.
- SLEEVES SHALL BE INSTALLED AND SECURELY FASTENED IN THEIR PROPER POSITION BY EACH SPECIALTY CONTRACTOR FOR HIS OWN WORK, WHO SHALL BE RESPONSIBLE FOR FINAL LOCATION.

3.5 ESCUTCHEONS:

- PROVIDE CHROME PLATED METAL ESCUTCHEONS WITH FASTENING DEVICES ON ALL PIPES PASSING THROUGH FINISHED WALL SURFACES AND FINISHED CHECK SURFACES. PROVIDE WITH SET SCREWS, SPACES WHICH ARE PAINTED, PANNELED OR HUNG ON OTHER DECORATIVE



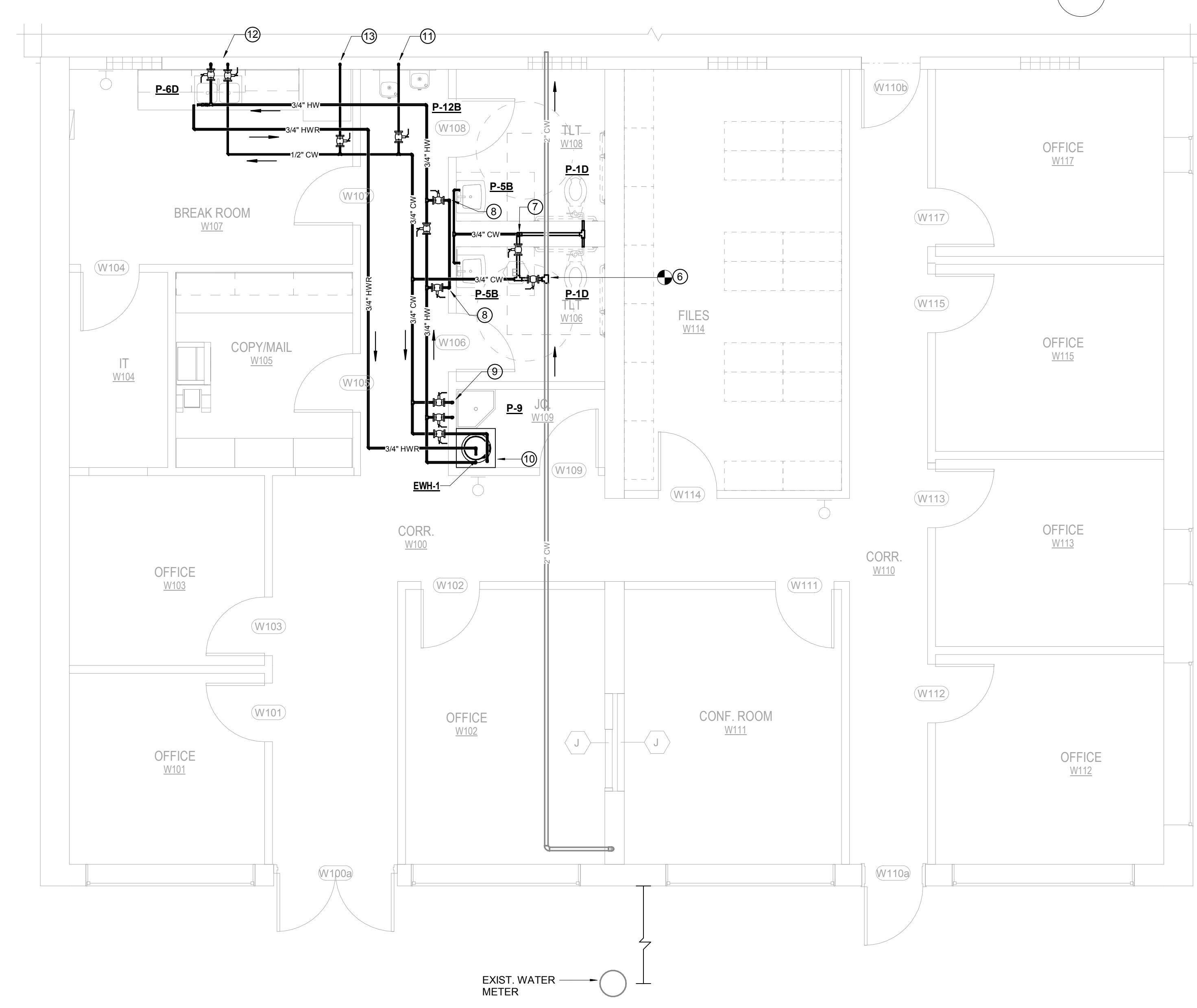
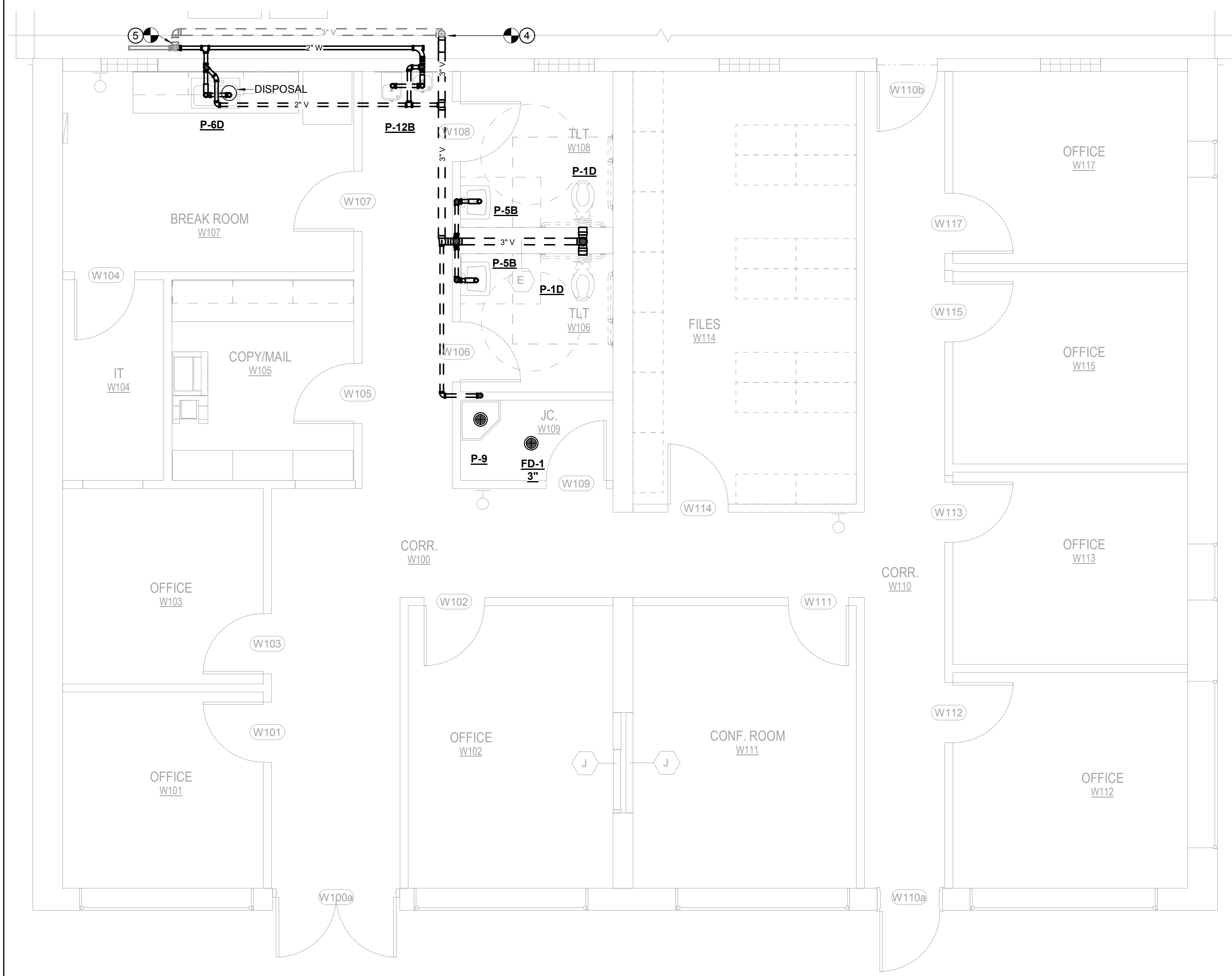
KEY SITE PLAN - N. WATKINS BUILDING

SHEET GENERAL NOTES

- A. SEE SHEET P001 FOR GENERAL NOTES, SCHEDULES AND LEGEND AND INDEX.
- B. SAW CUT AND BREAK OUT EXISTING CONCRETE FLOOR/ CORE DRILL EXISTING WALL FOR INSTALLATION OF NEW WASTE/VENT/WATER PIPING. REPAIR FLOOR AND WALLS AS REQUIRED. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR NEW FLOOR AND FINISH. SEE TYPICAL TRENCH REPAIR WHERE APPLICABLE. 2
P01

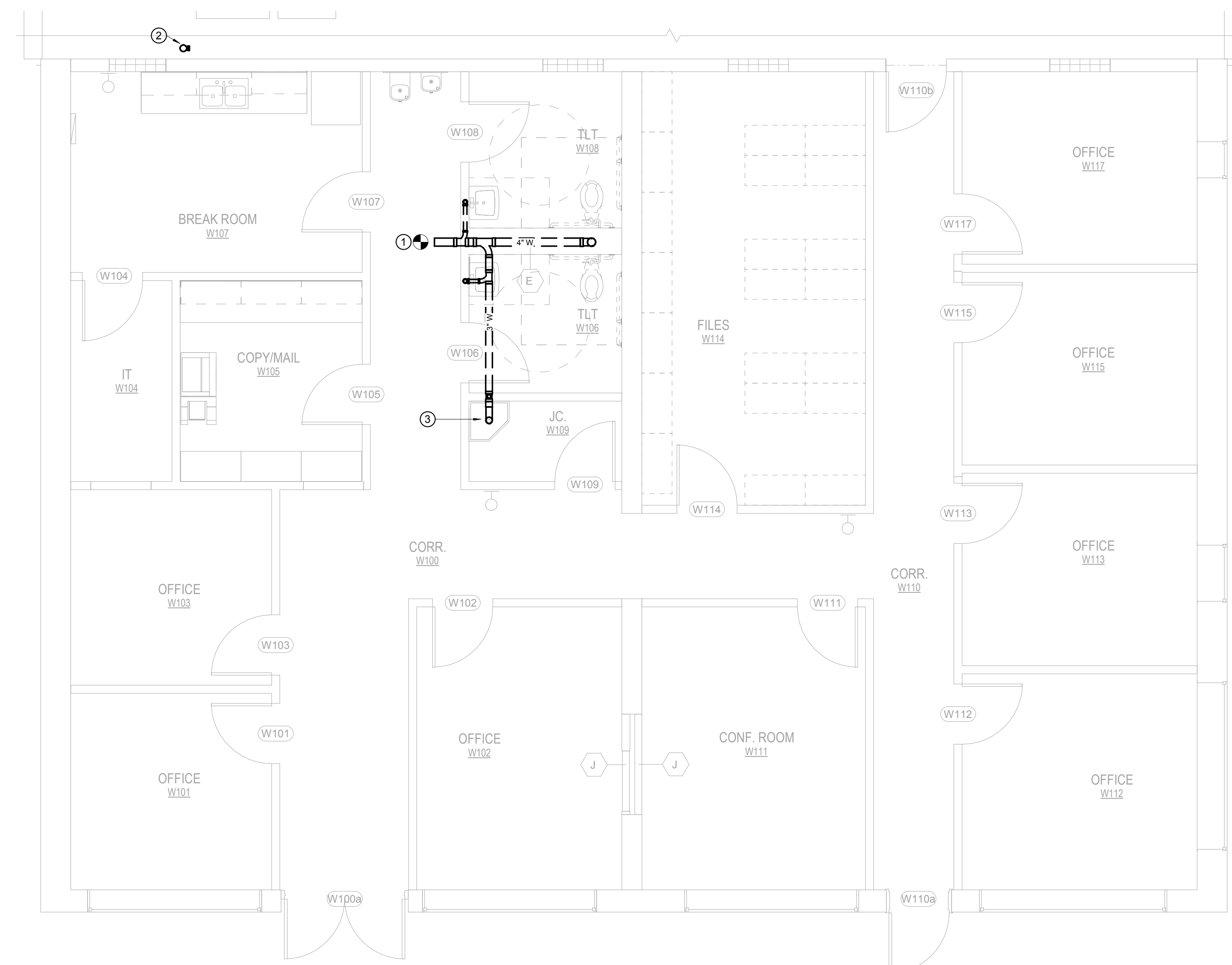
SHEET KEYED NOTES

- ① CONNECT NEW WASTE PIPING TO EXIST. THIS APPROX. LOCATION. VERIFY EXACT LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION.
- ② EXISTING W/V UP
- ③ 3" W. UP TO FIXTURE.
- ④ CONNECT NEW 3" V. TO EXIST. OR PROVIDE NEW 3" VTR. VERIFY EXACT LOCATION AND ARRANGEMENT AS REQUIRED PRIOR TO CONSTRUCTION.
- ⑤ CONNECT TO EXIST 3" W. THIS AREA. VERIFY EXACT LOCATION AND ARRANGEMENT AS REQUIRED PRIOR TO CONSTRUCTION.
- ⑥ CONNECT TO EXIST 2" CW. THIS AREA. VERIFY EXACT LOCATION, SIZE AND ARRANGEMENT AS REQUIRED PRIOR TO CONSTRUCTION.
- ⑦ 1 1/2" CW DN. TO FIXTURES.
- ⑧ 3/4" HW LOOP UP/DN. SEE DIAGRAM 6
P01
- ⑨ 1/2" HW & CW DN. TO FIXTURE.
- ⑩ 3/4" CW. HW & 3/4" HWR TO WATER HEATER. SEE DETAIL 2
P01
- ⑪ 1/2" CW DN. TO FIXTURE. 2
P01
- ⑫ 1/2" HW & CW DN. TO FIXTURE.
- ⑬ 1/2" CW DN. TO ICE MAKER. PROVIDE BACKFLOW PREVENTER AS REQUIRED. 2
P01



3 1364 N. WATKINS GRAVITY FLOOR PLAN
1/4" = 1'-0"

4 1364 N. WATKINS PRESSURE PIPING FLOOR PLAN
1/4" = 1'-0"



5 1364 N. WATKINS GRAVITY FLOOR PLAN - UNDERSLAB - ALTERNATE #1
1/4" = 1'-0"

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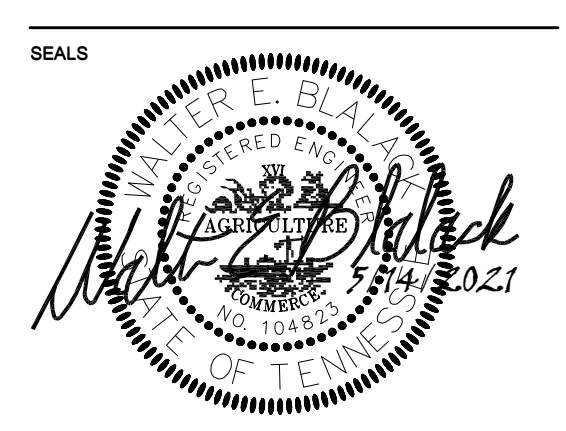
CONSULTANTS
SSR Smith Seckman Reid, Inc.

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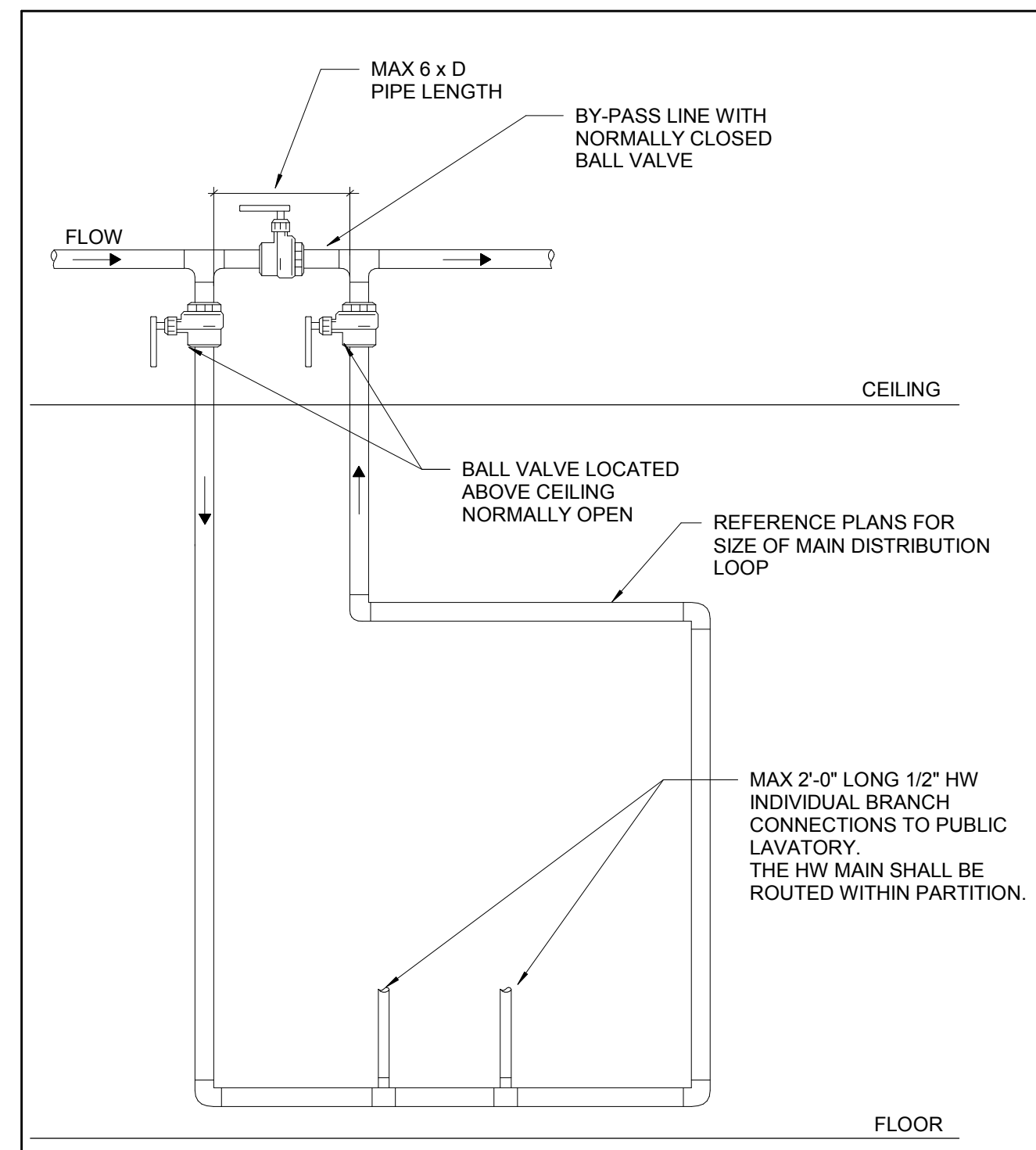
PROJECT NAME
**1364 N WATKINS
PACKAGE 1 -
RENOVATION**

Project No. 21673000
Date Issued 05.14.2021
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DRAWING TITLE
**N. WATKINS OFFICE
PLUMBING FLOOR
PLAN AND RCP**

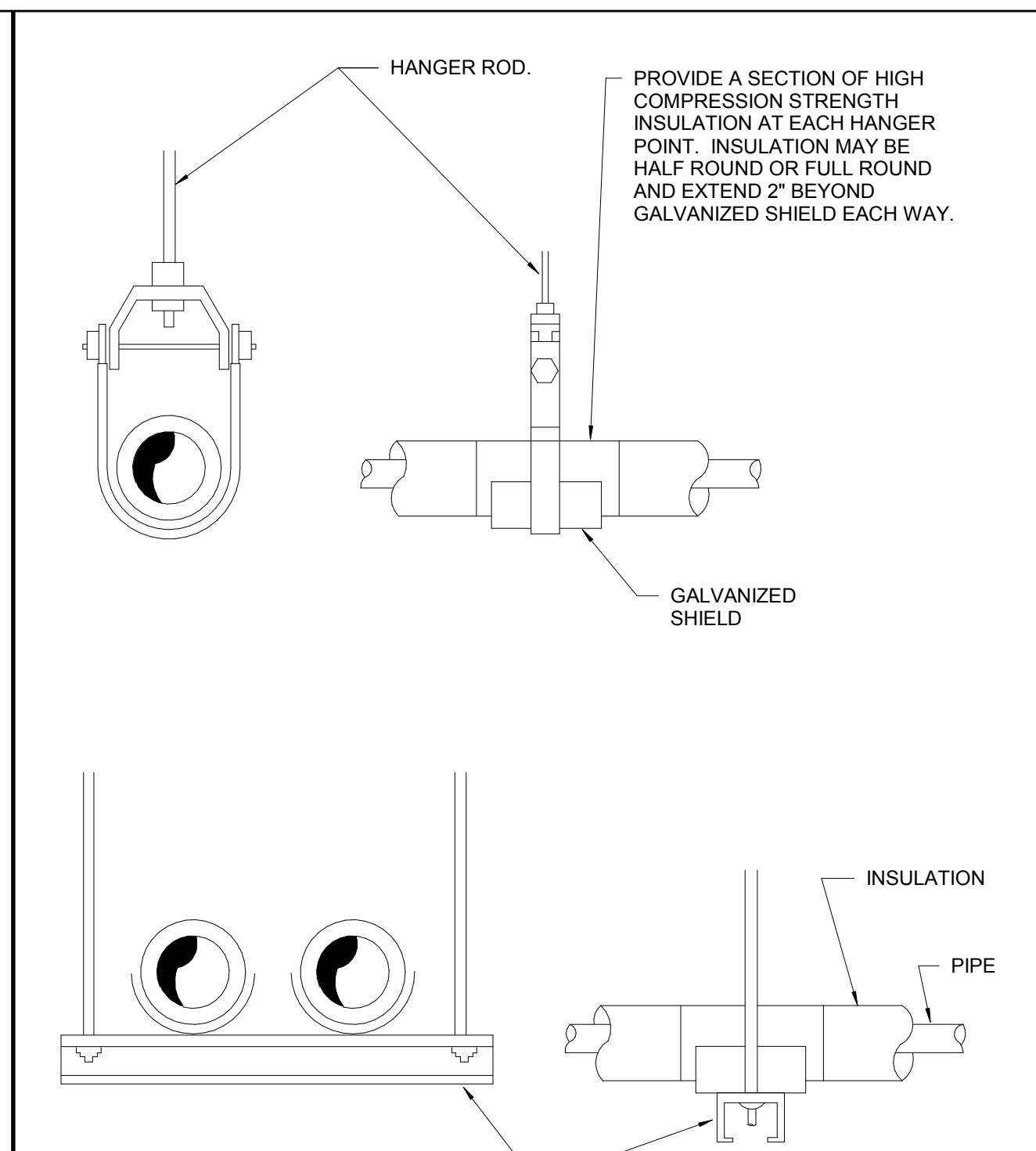


SHEET ID
**CONSTRUCTION DOCUMENTS
P121**



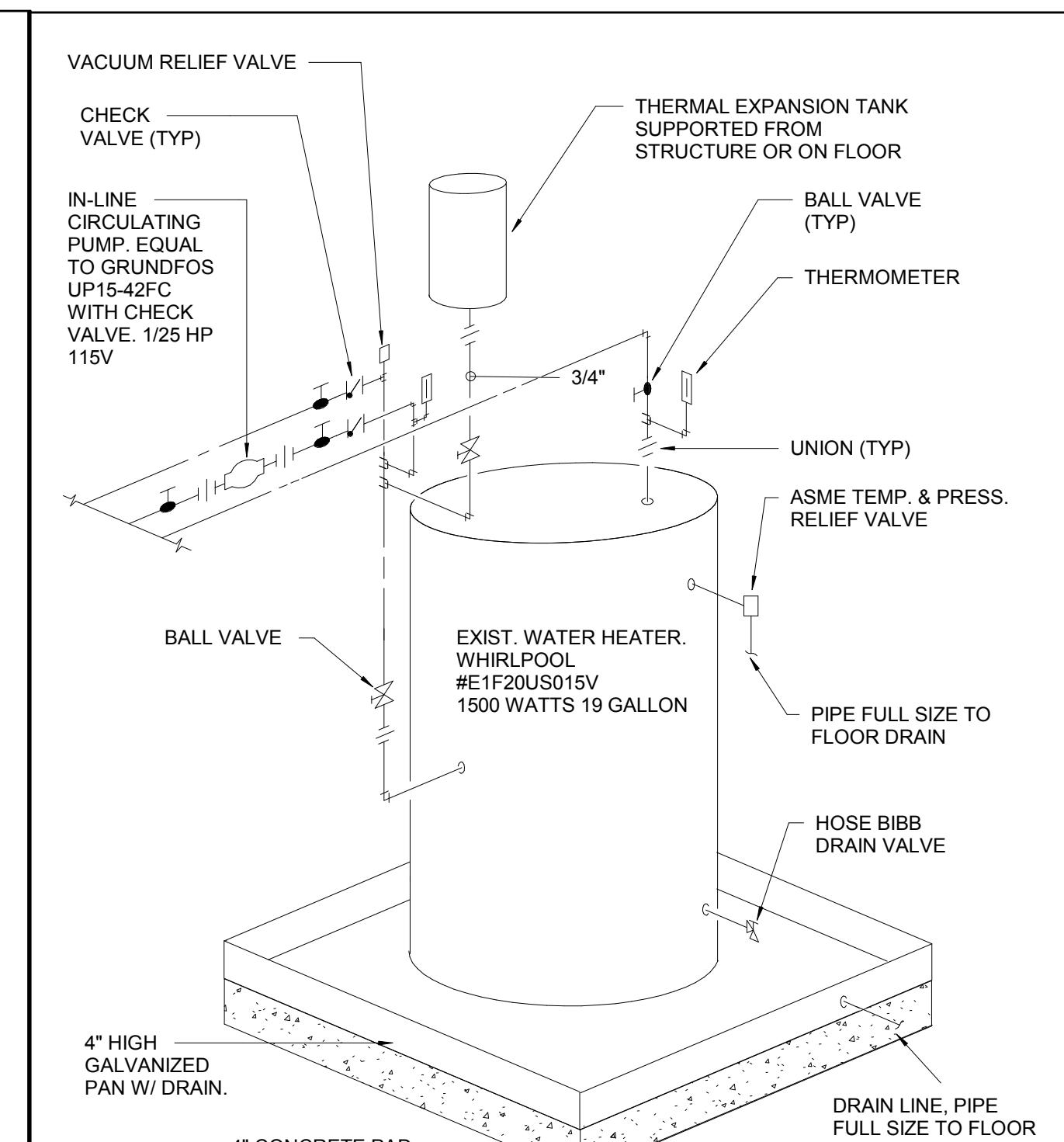
03P523

DOMESTIC HOT WATER BRANCH TO PUBLIC LAVATORY



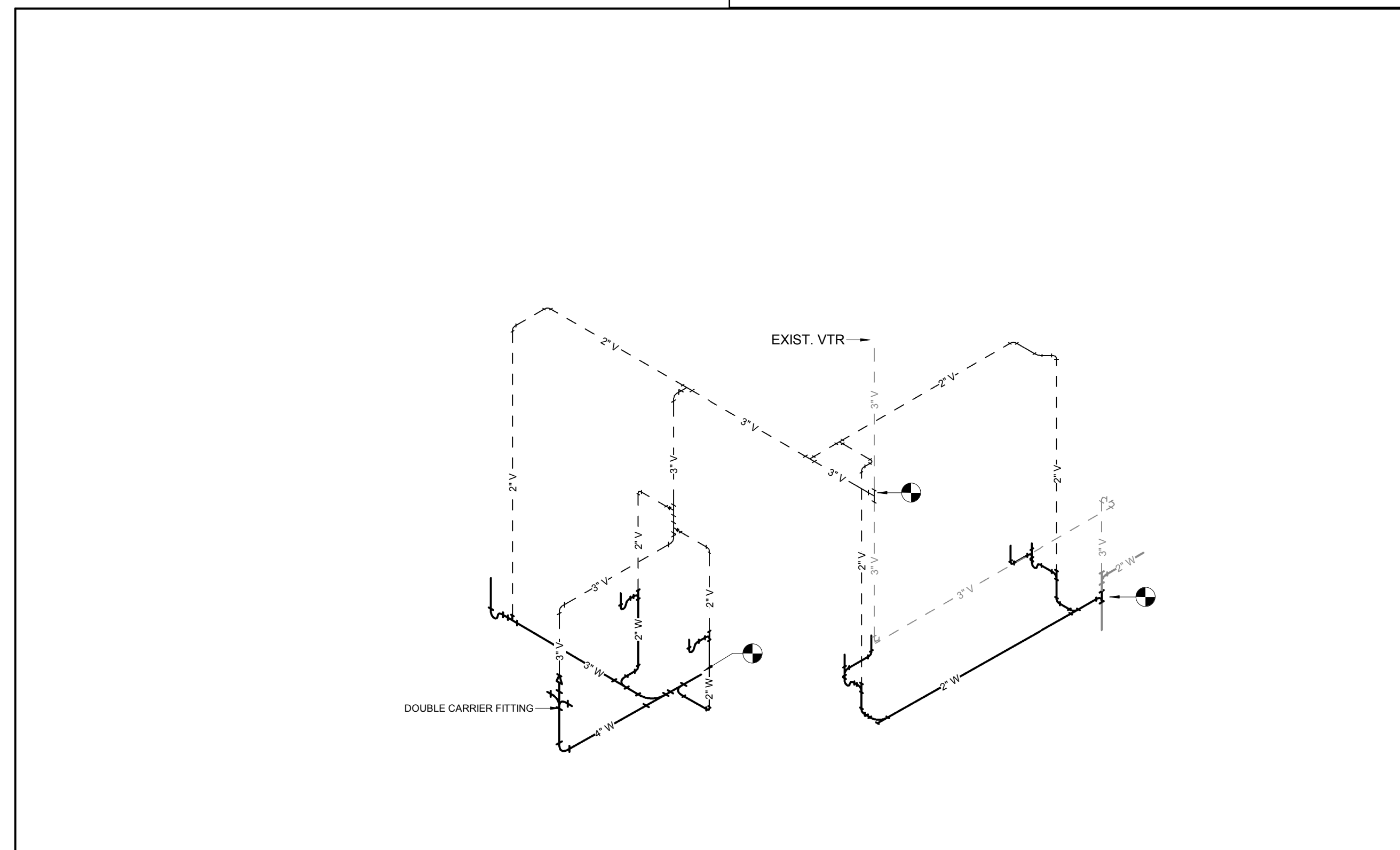
10P111

WATER PIPING HANGER



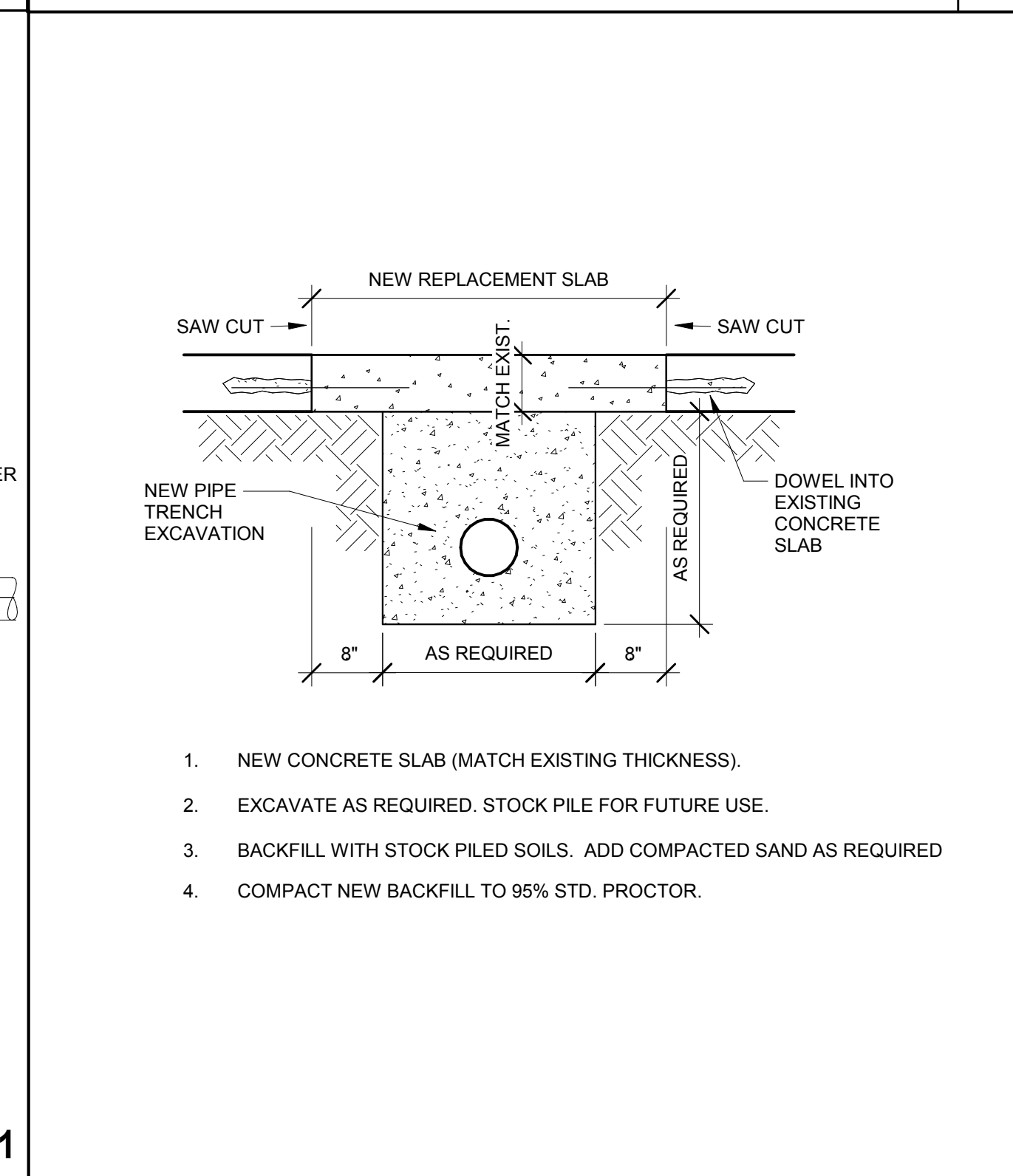
04P203

ELECTRIC WATER HEATER



02P101

IN-LINE CIRCULATING PUMP



1. NEW CONCRETE SLAB (MATCH EXISTING THICKNESS).
2. EXCAVATE AS REQUIRED. STOCK PILE FOR FUTURE USE.
3. BACKFILL WITH STOCK PILED SOILS. ADD COMPACTED SAND AS REQUIRED.
4. COMPACT NEW BACKFILL TO 95% STD. PROCTOR.

TYPICAL TRENCH DRAIN REPAIR DETAIL

SANITARY RISER DIAGRAM

MARK	DATE	DESCRIPTION
REVISIONS		

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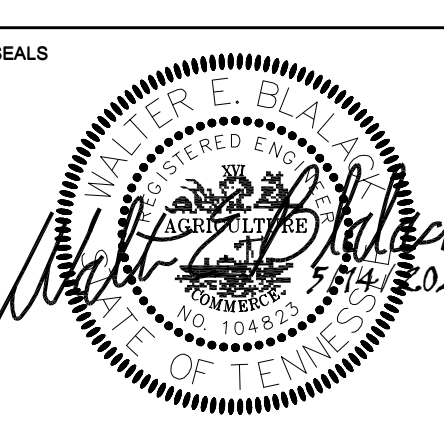
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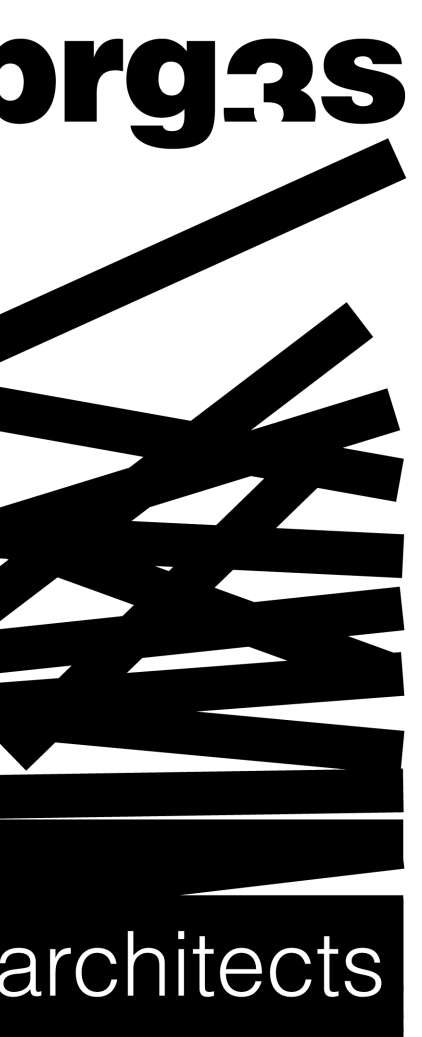
P501

LEGEND		(NOT ALL SYMBOLS MAY BE USED)
SYMBOL	DESCRIPTION	
LIGHTING		
	LIGHTING FIXTURE ANNOTATIONS (LOCATION OF DESIGNATORS MAY VARY) FIXTURE TYPE: XX CIRCUIT NUMBER: T CONTROL DESIGNATION: [X]	
	SURFACE, SUSPENDED, OR RECESSED LUMINAIRE (TYPE DETERMINES MOUNTING)	
	RECESSED OR SURFACE DOWNLIGHT LUMINAIRE	
	PENDANT MOUNTED LUMINAIRE	
	WALLWASH LUMINAIRE	
	WALL MOUNTED LUMINAIRE	
	NO SHADING INDICATES CONNECTION TO NORMAL BRANCH CIRCUIT	
	SHADING INDICATES CONNECTION TO LIFE SAFETY OR EMERGENCY BRANCH CIRCUIT	
	ILLUMINATED EXIT SIGNS, PROVIDE DIRECTIONAL ARROWS AND MOUNTING AS INDICATED ON PLANS	
	BATTERY POWERED EMERGENCY LIGHT	
	TRACK LIGHTING	
	POLE MOUNTED SITE LIGHTING LUMINAIRE	
	GROUND OR POLE MOUNTED FLOODLIGHT	
	FAA SPECIALTY LIGHTING (TYPE DETERMINES MOUNTING)	
RECEPTACLES		
	11 = CIRCUIT NUMBER (TYPICAL) XX = RECEPTACLE DESIGNATOR (TYPICAL) DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT	
	DUPLEX RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	DOUBLE-DUPLEX RECEPTACLE	
	DOUBLE-DUPLEX RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	DUPLEX GFCI RECEPTACLE	
	DUPLEX GFCI RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	SWITCHED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT	
	DUPLEX RECEPTACLE, EMERGENCY POWER - STANDARD MOUNTING HEIGHT	
	DUPLEX RECEPTACLE, EMERGENCY POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	DOUBLE-DUPLEX RECEPTACLE, EMERGENCY POWER - STANDARD MOUNTING HEIGHT	
	DOUBLE-DUPLEX RECEPTACLE, EMERGENCY POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	DUPLEX GFCI RECEPTACLE, EMERGENCY POWER - STANDARD MOUNTING HEIGHT	
	DUPLEX GFCI RECEPTACLE, EMERGENCY POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	SPECIAL CONFIGURATION RECEPTACLE (TYPE AS NOTED)	
	SPECIAL CONFIGURATION RECEPTACLE, EMERGENCY POWER (TYPE AS NOTED)	
	FLOOR BOX / POKE-THRU XX - DEVICE TYPE	
	FLOOR BOX / POKE-THRU, EMERGENCY POWER XX - DEVICE TYPE	
	PLUGMOLD OR RACEWAY WITH RECEPTACLES AS NOTED	
SWITCHES AND LIGHTING CONTROLS		
	S SINGLE POLE SWITCH	
	S ₂ DOUBLE POLE, SINGLE THROW SWITCH	
	S ₃ THREE-WAY SWITCH	
	S ₄ FOUR-WAY SWITCH	
	S _K SINGLE POLE SWITCH - KEY OPERATED	
	S _D DIMMER SWITCH	
	S _{LV} LOW VOLTAGE SWITCH	
	S _P SINGLE POLE SWITCH WITH PILOT LIGHT	
	S _{OC} OCCUPANCY SENSOR SWITCH, WALL MOUNT	
	S _{VD} VACANCY DIMMER	
	S _{VC} VACANCY SENSOR SWITCH	
	S _M MOTOR RATED SWITCH WITH THERMAL OVERLOAD	
	S _T TIMER SWITCH	
	S _V VARIABLE INTENSITY SWITCH	
	S _J JOG SWITCH	
	S _{CB} CIRCUIT BREAKER	
	PC PHOTOCELL - CEILING / WALL MOUNT	
	OS OCCUPANCY SENSOR - CEILING / WALL MOUNT	
	DS DAYLIGHT SENSOR - CEILING / WALL MOUNT	
	VS VACANCY SENSOR - CEILING / WALL MOUNT	
CIRCUITS AND RACEWAYS		
	BRANCH CIRCUIT OR RACEWAY CONCEALED OR EXPOSED	
	BRANCH CIRCUIT OR RACEWAY BELOW OR IN FLOOR SLAB OR BELOW GRADE	
	CONDUIT OR RACEWAY TURNING UP	
	CONDUIT OR RACEWAY TURNING DOWN	
	CAPPED CONDUIT OR RACEWAY	
	CIRCUIT OR CONDUIT CONTINUATION	
	HOMERUN TO PANELBOARD - NUMBER OF ARROWHEADS INDICATES QUANTITY OF CIRCUITS. REFER TO SPECIFICATIONS FOR MINIMUM CONDUIT SIZES.	
	PARTIAL CIRCUIT	
<p>NOTES:</p> <ol style="list-style-type: none"> ALL BRANCH CIRCUITS SHALL BE #12 AWG MINIMUM. REFER TO THE SPECIFICATIONS FOR UPSIZING REQUIREMENTS DUE TO VOLTAGE DROP OR OTHER PURPOSES. ALL BRANCH CIRCUITS SHALL CONTAIN A SEPARATE GREEN INSULATED GROUNDING CONDUCTOR, #12 AWG MINIMUM, OR OTHERWISE AS NOTED. ALL 120V AND 277V BRANCH CIRCUITS SHALL UTILIZE A SEPARATE DEDICATED NEUTRAL UNLESS OTHERWISE NOTED. 		

LEGEND		(NOT ALL SYMBOLS MAY BE USED)
SYMBOL	DESCRIPTION	
FIRE ALARM		
	FIRE ALARM VISUAL DEVICE - STROBE ONLY	
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY	
	FIRE ALARM AUDIO DEVICE	
	FIRE ALARM AUDIO DEVICE WITH STROBE	
	FIRE ALARM HORN	
	FIRE ALARM HORN WITH STROBE	
	FIRE ALARM CEILING MOUNT HORN WITH STROBE	
	FIRE ALARM CEILING MOUNT AUDIO DEVICE WITH STROBE	
	FIRE ALARM CEILING MOUNT SPEAKER	
	FIRE ALARM MANUAL PULL STATION	
	FIRE ALARM SMOKE DETECTOR NO SUBSCRIPT+ IONIZATION TYPE; P= PHOTOELECTRIC; SS= SINGLE STATION SMOKE ALARM	
	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE	
	FIRE ALARM DUCT SMOKE DETECTOR	
	GAS DETECTOR	
	FLAME DETECTOR	
	BEAM DETECTOR SUBSCRIPT AS FOLLOWS: T=TRANSMITTER; R=RECEIVER	
	FIRE ALARM CONTROL MODULE	
	FIRE ALARM MONITOR MODULE	
	FIRE ALARM RELAY MODULE	
	FS FLOW SWITCH	
	TS TAMPER SWITCH	
	FIREFIGHTER'S TELEPHONE JACK	
	MAGNETIC DOOR HOLDER	
	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH	
	FACP FIRE ALARM CONTROL PANEL	
	FAAP FIRE ALARM ANNUNCIATOR PANEL	
	FEP FIRE ALARM EXTENDER PANEL	
	SCPP SMOKE CONTROL AND PRESSURE PANEL	
MISCELLANEOUS		
	NON-FUSIBLE SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES)	
	FUSIBLE SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES/FUSE SIZE)	
	COMBINATION MOTOR STARTER/SAFETY SWITCH	
	FACTORY WIRED CONTROLLER OR EQUIPMENT	
	MOTOR CONNECTION	
	DUCT HEATER CONNECTION	
	JUNCTION BOX	
	PANELBOARD	
	C CLOCK, SINGLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED	
	C ₂ CLOCK, DOUBLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED	
	BAS BUILDING AUTOMATION SYSTEM CONTROL PANEL	
	SSP SECURITY SYSTEM CONTROL PANEL	
	DS DOOR SWITCH MOUNTED IN DOOR JAMB	
	DR DOOR RELEASE PUSH BUTTON	
	CR CARD READER	
	EKP ELECTRONIC KEY PAD	
	PBS PUSH BUTTON STATION	
	VFD VARIABLE FREQUENCY DRIVE	
	P PUSH PLATE (DOOR OPERATOR)	
	EXXX SPECIALTY EQUIPMENT TAG	
	XXXXXX MECHANICAL EQUIPMENT TAG	
	COMMUNICATIONS OUTLET - STANDARD MOUNTING HEIGHT, SPECIAL MOUNTING HEIGHT, CEILING	
	WP WALL PHONE	
	CATV CATV OUTLET	

LEGEND		(NOT ALL SYMBOLS MAY BE USED)
SYMBOL	DESCRIPTION	
ABBREVIATIONS		
ABC	ABOVE COUNTER	
ADO	AUTOMATIC DOOR OPENER	
AFCI	ARC FAULT CIRCUIT INTERRUPTER	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
CLG	CEILING	
COF	COFFEE MACHINE	
COP	COPIER	
CR	CONTROLLED RECEPTACLE	
CS	CONTROLLED RECEPTACLE - SPLIT WIRED	
DC	DIGITAL CLOCK	
DW	DISHWASHER	
E	EMERGENCY POWER	
EPO	EMERGENCY POWER OFF	
EV	ELECTRICAL VEHICLE CHARGING STATION	
EWB	ELECTRONIC WHITE BOARD	
EWC	ELECTRIC WATER COOLER	
FBO	FURNISHED BY OTHERS	
FLR	FLOOR MOUNTED	
FSD	FIRE/SMOKE DAMPER	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	
ICE	ICE MACHINE/MAKER	
IG	ISOLATED GROUND	
MW	MICROWAVE	
PC	PERSONAL COMPUTER WORKSTATION	
PR	PRINTER	
PT	PNEUMATIC TUBE	
RF	REFRIGERATOR	
TC	TIME CLOCK	
TR	TAMPER RESISTANT	
TV	TELEVISION	
URF	UNDERCOUNTER REFRIGERATOR	
USB	RECEPTACLE WITH USB OUTLET(S)	
USBX	USB ONLY (X) = NUMBER OF USB OUTLETS	
VFD	VARIABLE FREQUENCY DRIVE	
VM	VENDING MACHINE	
WP	WEATHERPROOF	

SHEET INDEX	
NUMBER	SHEET NAME
E001	ELECTRICAL LEGENDS AND NOTES
E002	ELECTRICAL SPECIFICATIONS
E021	N. WATKINS OFFICE ELECTRICAL FLOOR PLANS, LIGHTING, POWER & SYSTEMS
E01	ELECTRICAL DETAILS & SCHEDULES



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PROJECT NAME

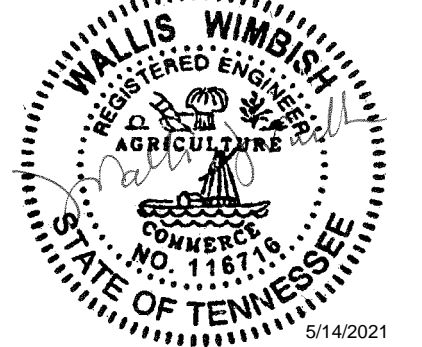
1364 N WATKINS
 PACKAGE 1 -
 RENOVATION

Project No. 05-14-2021
 Date Issued
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DRAWING TITLE

ELECTRICAL
 LEGENDS AND
 NOTES

SEALS



SHEET ID

CONSTRUCTION DOCUMENTS

E001

KEY SITE PLAN - N. WATKINS BLDG

GENERAL NOTES

- A. UNLESS NOTED OTHERWISE, ALL POWER CIRCUITS SHALL BE CIRCUITED UTILIZING AVAILABLE 20AMP SINGLE POLE SPARES FROM DEMOLITION. CIRCUIT DESIGNATIONS ARE FOR REFERENCE ONLY. FIELD VERIFY AVAILABLE SPARE BREAKERS FROM EXISTING PANELS EX1 AND EX2 BEFORE CIRCUITING AND PROVIDE 20AMP SINGLE POLE BREAKERS AS REQUIRED. IN EVENT OF CONFLICTS WITH AVAILABLE SPARE BREAKERS AFTER DEMOLITION, NOTIFY THE ARCHITECT AND ELECTRICAL ENGINEER BEFORE PROCEEDING WITH WORK.
- B. HALF TONE DEVICES INDICATE ITS EXISTING AND TO BE REMAIN. CIRCUIT EXISTING RECEPTACLES PER PLAN.
- C. LIGHTING FIXTURE LOCATIONS SHOWN ON THIS SHEET ARE APPROXIMATE. REFERTO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHT FIXTURES.
- D. SYMBOL WITH 'E' DESIGNATION FOR LIGHT FIXTURE SHOWN TO HAVE A BATTERY BACKUP DRIVER SHALL BE CONNECTED TO THE CONTROLLED LIGHTING CIRCUIT SERVING THE RESPECTIVE SPACE AND SHALL BE CONNECTED TO THE LINE (UN-SWITCHED) SIDE OF ANY SWITCH, RELAY ETC. THAT CONTROLS THE LIGHTING OF THAT SPACE.
- E. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
- F. CONNECT ALL NEW FIRE ALARM SYSTEM DEVICES TO THE EXISTING FIRE ALARM SYSTEM. NEW DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING SYSTEM. FURNISH & INSTALL ALL POWER SUPPLIES, INTERFACE DEVICES, ETC. REQUIRED. PROVIDE ALL SYSTEM MODIFICATIONS, ADDITIONAL COMPONENTS, AND REPROGRAMMING REQUIRED.
- G. EACH DATA OUTLET SHOWN ON THIS DRAWING SHALL CONSIST OF FLUSH A MOUNTED 4" X 4" BACKBOX AND SINGLE-GANG DEVICE RING WITH 0.75" CONDUIT RUN CONCEALED IN WALL TO ACCESSIBLE ABOVE CEILING SPACE. PROVIDE PULL STRING. WIRING & TERMINATIONS WILL BE INSTALLED BY THE OWNER'S TELECOMMUNICATIONS CONTRACTOR.
- H. PROVIDE BLANK COVER PLATES FOR EXISTING TELECOMMUNICATION DEVICES NOT BEING REUSED. COORDINATE WITH ARCHITECT FOR COVER PLATE FINISH.
- I. USE EXISTING DATA OUTLET LOCATIONS WITHIN SPACE FOR NEW DATA DEVICES AS APPLICABLE. FIELD VERIFY ALL LOCATION BEFORE ROUGH-IN.

KEYED NOTES

- ① COORDINATE RECEPTACLE FOR MICROWAVE WITH MILLWORK VENDOR BEFORE ROUGH-IN.
- ② EXISTING PANELS 'EX1' & 'EX2' TO REMAIN AND BE REUSED FOR NEW CIRCUITS.
- ③ PROVIDE POWER SWITCH TO CONTROL GARBAGE DISPOSAL.
- ④ PROVIDE UNDERCOUNTER RECEPTACLE FOR GARBAGE DISPOSAL.
- ⑤ RELOCATED EXISTING 1.5KW ELECTRIC WATER HEATER.
- ⑥ EXISTING FIRE ALARM PULL STATION.
- ⑦ RELOCATE EXISTING EXTERIOR LIGHTING CONTROL TO THIS LOCATION. LIGHTING CONTROL TO CONTROL EXISTING EXTERIOR FIXTURES AND FIXTURE TYPES C, CE, AND DE.
- ⑧ EXISTING EXTERIOR SECURITY CAMERA TO REMAIN AND BE REUSED. PROVIDE CONDUIT BACK TO CONTROL PANEL FOR SECURITY SYSTEM. CONTRACTOR TO CONFIRM LOCATION.
- ⑨ PROVIDE 120V POWER FOR UV LIGHTING IN EXISTING ROOFTOP UNIT. COORDINATE WITH MECHANICAL.
- ⑩ PROVIDE 2" CONDUIT DROP INTO IT ROOM. COORDINATE EXACT LOCATION WITH SECURITY EQUIPMENT.
- ⑪ PROVIDE GFCI BREAKER.

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PROJECT NAME

1364 N WATKINS
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RENOVATION

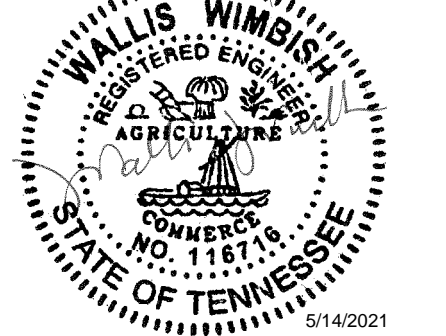
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N. WATKINS OFFICE
ELECTRICAL FLOOR
PLANS, LIGHTING,
POWER & SYSTEMS

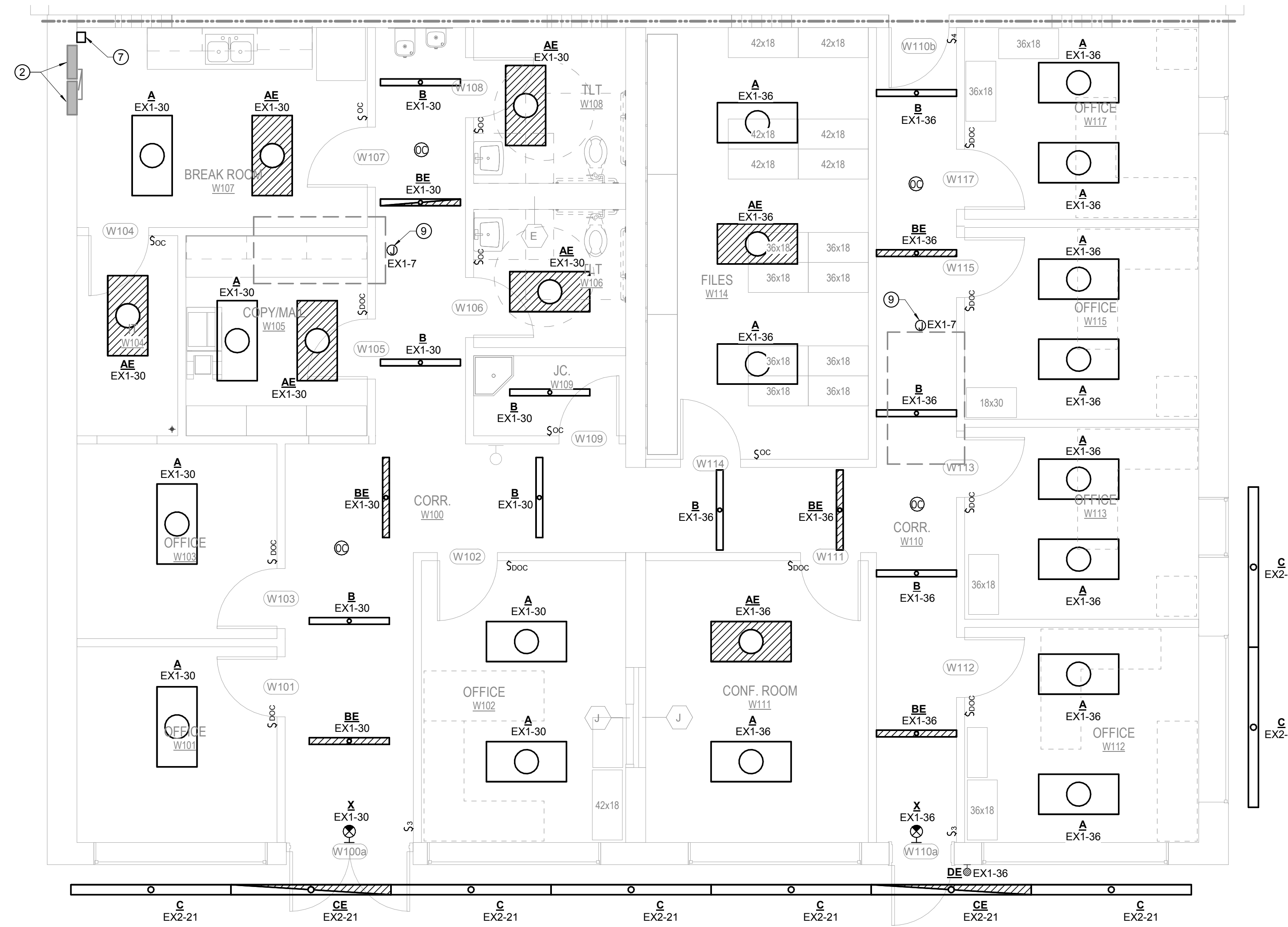
SEALS



SHEET ID

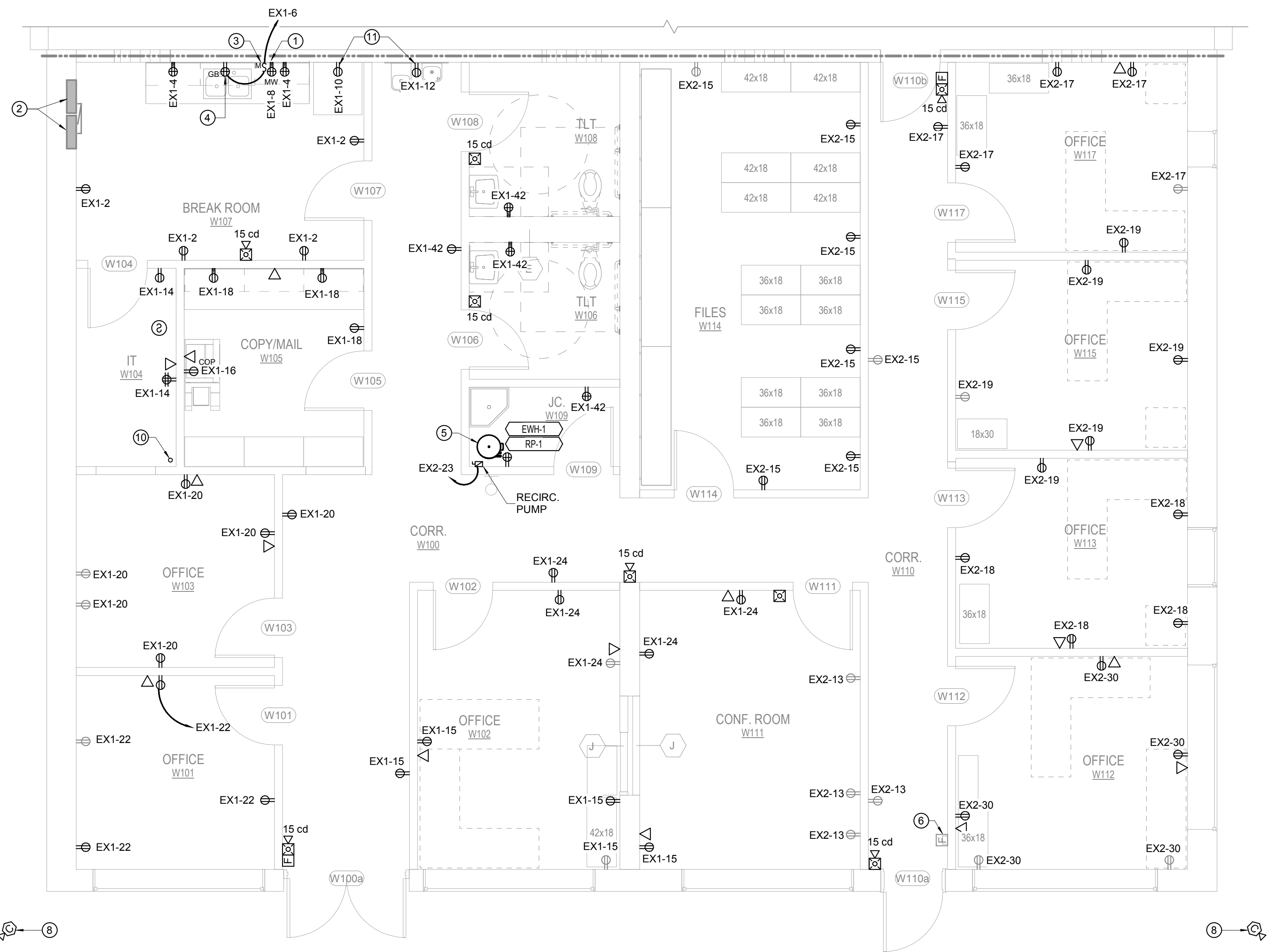
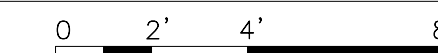
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E121



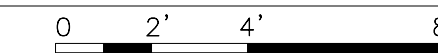
1 1364 N. WATKINS ELECTRICAL FLOOR PLAN - LIGHTING

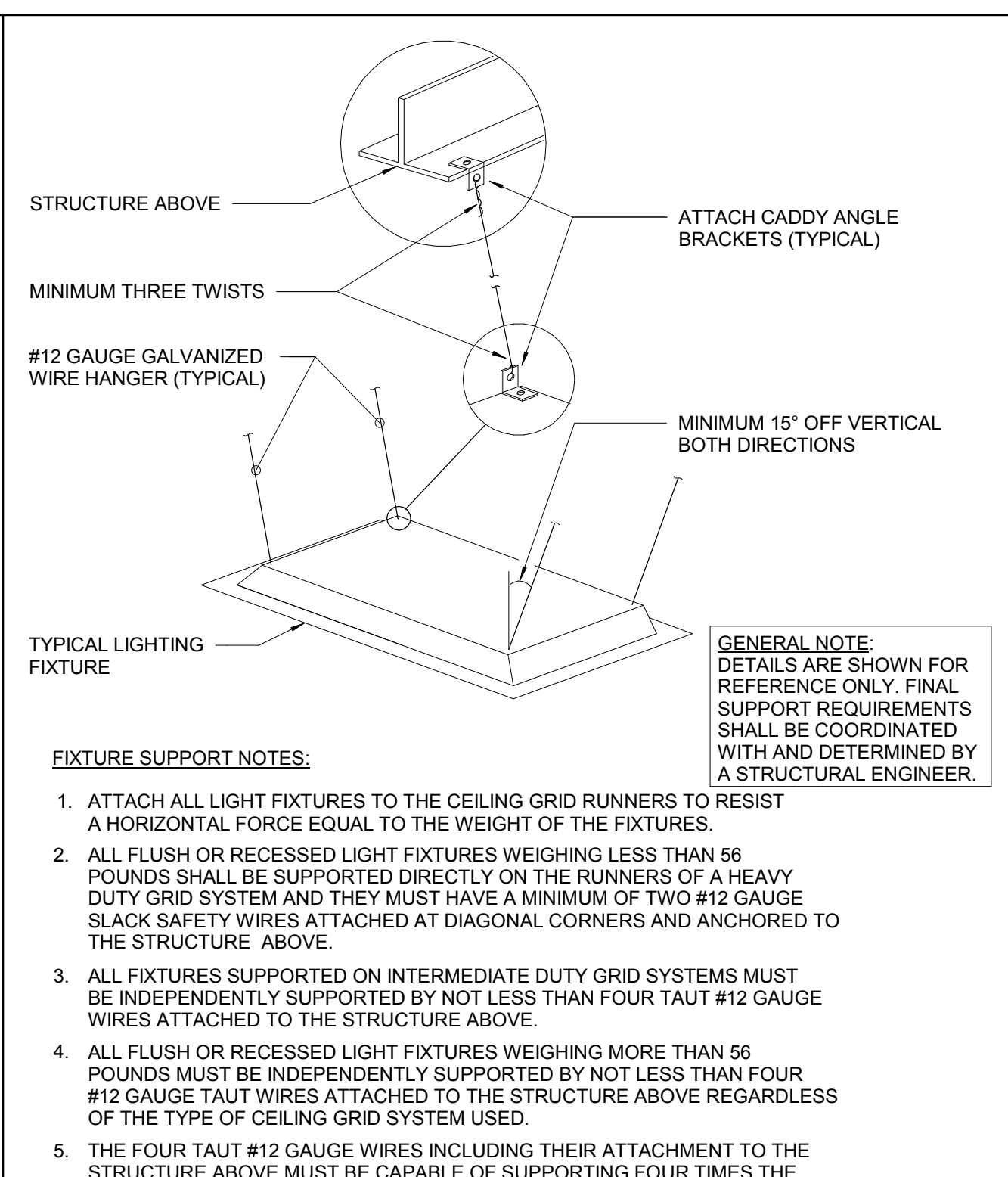
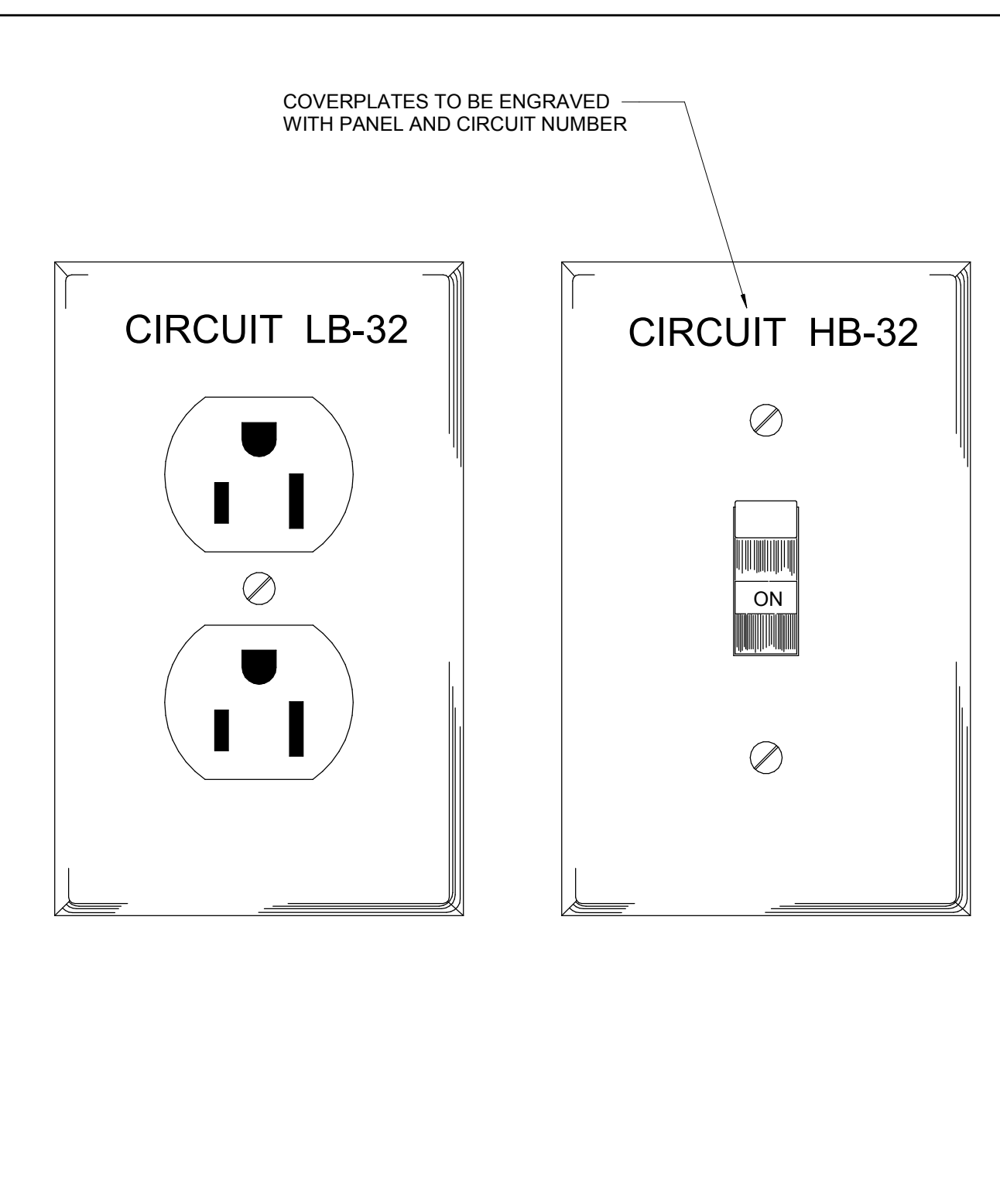
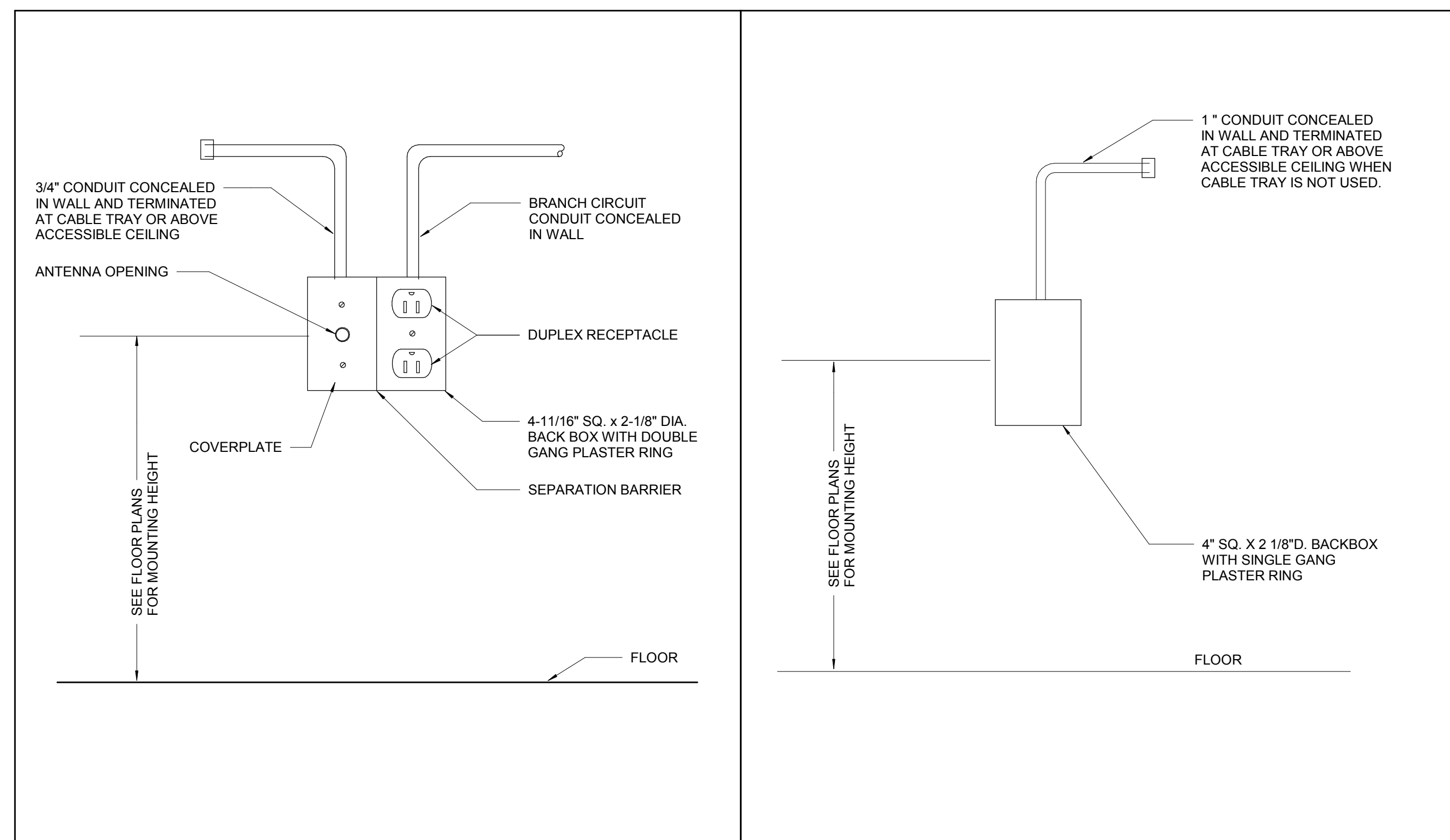
1/4" = 1'-0"



2 1364 N. WATKINS ELECTRICAL FLOOR PLAN - POWER & SYSTEMS

1/4" = 1'-0"



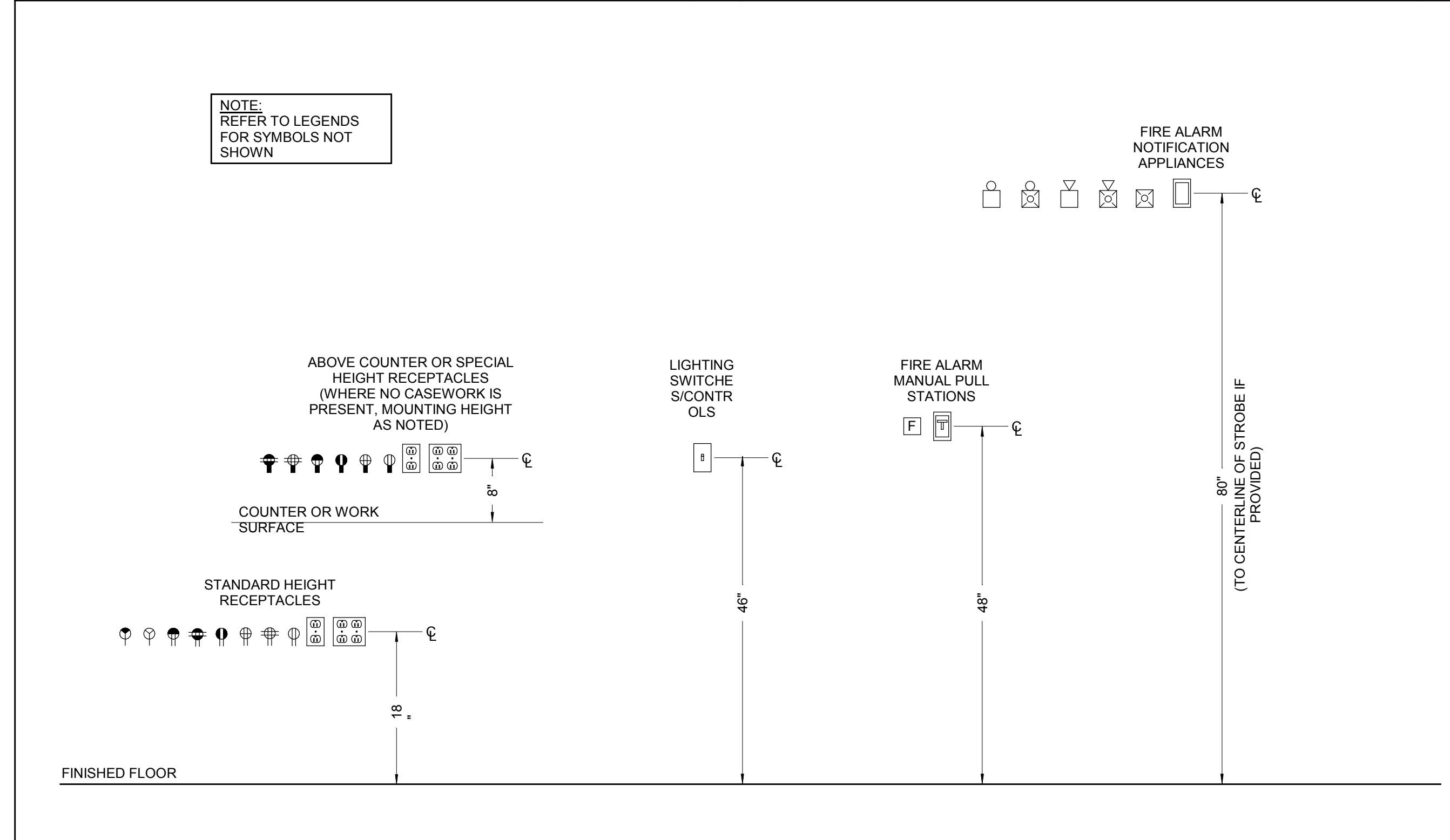


COMBINATION TELEVISION OUTLET AND RECEPTACLE 01

TELEPHONE OR DATA OUTLET DETAIL 02

RECEPTACLE/SWITCH LABELING DETAIL 03

FIXTURE SUPPORT DETAIL 04



ELECTRICAL DEVICE MOUNTING HEIGHT DETAIL 05

LUMINAIRE SCHEDULE

GENERAL NOTES:
1. REFER TO AND COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR FINAL FIXTURE LOCATIONS, CEILING TYPES, MOUNTING TYPES, ETC. PROVIDE REQUIRED MOUNTING KITS (I.E. FLANGE KITS, FLANGELESS FRAMES, ETC.) AS REQUIRED FOR CEILING COMPATIBILITY. VERIFY AND COORDINATE ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO ORDERING.
2. WHERE EMERGENCY BATTERY PACKS ARE INDICATED, THEY SHALL BE CONNECTED VIA UNSWITCHED PORTION OF ASSOCIATED CIRCUIT.
3. CONFIRM LED DRIVER DIMMING COMPATIBILITY (I.E. 0-10V, ELY, ETC.) FOR ALL FIXTURES PRIOR TO ORDERING. REFER TO LIGHTING PLANS, LIGHTING CONTROLS SPECIFICATIONS, AND LIGHTING CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION.
4. REFER TO ELECTRICAL SITE PLANS FOR QUANTITY AND ORIENTATION OF FIXTURE HEADS FOR EACH POLE LOCATION. PROVIDE CORRESPONDING MOUNTING ARMS AND ADAPTERS AS NEEDED.
5. WHERE SUSPENDED OR PENDANT MOUNTED FIXTURES ARE SPECIFIED, REFER TO ARCHITECTURAL DRAWINGS FOR OVERALL SUSPENSION LENGTHS AND MOUNTING HEIGHTS. PROVIDE ALL NECESSARY HARDWARE, ADAPTERS, ETC., FOR A COMPLETE INSTALLATION.
6. WHERE FIXTURES ARE SHOWN IN CONTINUOUS RUNS (I.E. COVES, SUSPENDED LINEAR, RECESSED LINEAR, UNDERCABINET, ETC.) PROVIDE STANDARD LENGTH SECTIONS WHERE POSSIBLE TO ACHIEVE ROW LENGTHS AS INDICATED ON THE DRAWINGS. PROVIDE ALL NECESSARY CONNECTORS, HARDWARE, ADAPTERS, END CAPS, ETC., FOR A COMPLETE INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR STANDARD SECTION LENGTHS AND MINIMUM SECTION LENGTHS.
7. CONFIRM LED COLOR TEMPERATURE (WHERE APPLICABLE) FOR ALL LUMINAIRE TYPES WITH ARCHITECT AND OWNER PRIOR TO ORDERING.
8. LED TAPE LIGHT:
A. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS, ELEVATIONS, AND OTHER INFORMATION REGARDING LOCATIONS OF LED TAPE LIGHT.
B. PROVIDE REMOTE LED POWER SUPPLIES AS REQUIRED FOR LENGTHS OF LED TAPE LIGHT RUNS INDICATED ON THE DRAWINGS. DO NOT EXCEED 80% OF RATED CAPACITY. INSTALL POWER SUPPLIES IN ACCESSIBLE, BUT CONCEALED LOCATIONS, SUCH AS CLOSETS, CONCEALED IN WALLWORK ABOVE ACCESSIBLE CEILING(S). FIELD VERIFY FINAL LOCATIONS AND CONFIRM WITH ARCHITECT PRIOR TO PURCHASE. CONFIRM DIMMING COMPATIBILITY OF LED POWER SUPPLIES (I.E. 0-10V, ELY, TRAC, ETC.) PRIOR TO ORDERING.
C. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR VOLTAGE DROP INFORMATION. PROVIDE LOW VOLTAGE WIRING AS REQUIRED TO NOT EXCEED MANUFACTURER'S MAXIMUM VOLTAGE DROP.
D. WHERE LED TAPE LIGHT IS SPECIFIED WITH A HOUSING, PROVIDE ALL NECESSARY HARDWARE FOR A COMPLETE INSTALLATION.

TYPE	DESCRIPTION	MANUFACTURER/SERIES	LAMPS			VOLTAGE	BALLAST/DRIVER	MOUNTING	REMARKS	
			LAMPS	COLOR	INPUT WATTS					
A	2X4 LED RECESSED PANEL	LITHONIA LIGHTING	EPANL-2X4-4800LM-80CRI-35K-ZT-1MVOLT	LED	3500K	39	UNIV	--	RECESSED	--
AE	2X4 LED RECESSED PANEL - EMERGENCY	LITHONIA LIGHTING	EPANL-2X4-4800LM-80CRI-35K-ZT-1MVOLT-E10WCP	LED	3500K	39	UNIV	--	RECESSED	--
B	4 FEET LED LINEAR	ALIGHT	D6-4-LS-35-U-T-B5-T-D	LED	3500K	20	UNIV	--	RECESSED	--
BE	4 FEET LED LINEAR - EMERGENCY	ALIGHT	D6-4-LS-35-U-T-B5-T-DEC	LED	3500K	20	UNIV	--	RECESSED	--
C	SURFACE MOUNT STRIP	FLUXSTREAM	FSX-8-80L-840-UNV-DIM-IP65	LED	4000K	64	UNIV	--	SURFACE MOUNTED	--
CE	SURFACE MOUNT STRIP - EMERGENCY	FLUXSTREAM	FSX-8-80L-840-UNV-DIM-IP65-B5L5LST	LED	4000K	64	UNIV	--	SURFACE MOUNTED	--
DE	WALL PACK - EMERGENCY	LYTEPRO	LPW16-20W-GS-3-UNV-PCB	LED	4000K	20	UNIV	--	WALL MOUNTED	--
X	LED EXIT SIGN	LITHONIA LIGHTING	LQM-S-W-R-MVOLT-SD	LED	N/A	3	UNIV	LED DRIVER	AS REQUIRED PER PLANS	--

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

GENERAL NOTES: NONE. **REMARKS:** NONE. **ABBREVIATIONS:** FDS = FUSED DISCONNECT SWITCH, NFD5 = NON-FUSED DISCONNECT SWITCH, CM5D = COMBINATION MOTOR STARTER/DISCONNECT SWITCH, CP = CONTROL PANEL, MMS = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD, VFD = VARIABLE FREQUENCY DRIVE, INT = INTEGRAL DISCONNECT, CDS = CONTROL PANEL, TG = MOTOR RATED TOGGLE SWITCH.

TAG	DESCRIPTION	LEVEL	VOLTAGE	PHASE	H.P.	KVA	FLA	PANEL	CKT.	DISCONNECT		WIRE SIZE	CONDUIT SIZE	REMARKS
										DISC. TYPE	AMP RATING / FUSE SIZE			
EW1-1	RELOCATED WATER HEATER	SERVICE BUILDING LEVEL 1	120 V	1		1.5	12.5 A	EX2	11	NEMA 5-20R	--	2 #12, #12G	1/2"	--
RP-1	RECIRC. PUMP	SERVICE BUILDING LEVEL 1	120 V	1	1/25	0.1	0.74 A	EX2	12	--	--	2 #12, #12G	1/2"	--

Name: EX1 (EXISTING)
Location: BREAK W107
Supply From: SURFACE
Mounting: SURFACE
Enclosure: NEMA 1
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING
Mains Type: MCB
Bus Rating: MCB Rating: 200 A

CKT	Circuit Description	Notes	Trip	Poles	A (VA)	B (VA)	C (VA)	Poles	Trip	Notes	Circuit Description	CKT
1	EXISTING LOAD	--	100	3	1000	720		1	20		REC BREAK W107	2
3	--	--	--	--	1000	360		1	20		REC BREAK W107	4
5	--	--	--	--	1000	672		1	20		GARBAGE DISPOSAL...	6
7	RTU UV LIGHTS	20	1	48	1200			1	20		MICROWAVE	8
9	EXISTING LOAD	20	2		1000	900		1	20		REFRIGERATOR	10
11	--	--	--	--	1000	720		1	20		DRINKING FOUNTAIN	12
13	--	--	--	--	540			1	20		REC IT W104	14
15	Rec CORR. W100	20	1		900	1440		1	20		COPIER	16
17	--	--	--	--			540	1	20		REC COPYMAIL W105	18
19	SPARE	20	1	0	1000			1	20		REC OFFICE W103	20
21	SPARE	--	--	--	0	720		1	20		RECEPT. OFFICE W101	22
23	SPARE	--	--	--	0	900		1	20		REC CORR. W100	24
25	SPARE	--	--	--	0	0		--	--	--	SPARE	26
27	SPARE	--	--	--	0	0		--	--	--	SPARE	28
29	SPARE	--	--	--	0	624		1	20		LTG	30
31	SPARE	--	--	--	0	0		--	--	--	SPARE	32
33	SPARE	--	--	--	0	0		--	--	--	SPARE	34
35	SPARE	--	--	--	0	708		1	20		LTG	36
37	SPARE	--	--	--	0	0		--	--	--	SPARE	38
39	SPARE	--	--	--	0	0		--	--	--	SPARE	40
41	SPARE	--	--	--	0	720		1	20		REC JC. W109	42
Total Load:					4648 VA	6320 VA	6886 VA					
Total...					39 A	55 A	60 A					

Load Classification
Ltg 1392 VA 125.00% 1728 VA
Rec 10800 VA 96.30% 10400 VA Total Conn. Load: 17854 VA
Kitchen 672 VA 100.00% 672 VA Total Demand: 17800 VA
Total Conn. Current: 50 A
Total Demand Current: 49 A

Notes: NOTE 1 - PROVIDE GFCI BREAKER.

Name: EX2 (EXISTING)
Location: BREAK W107
Supply From: SURFACE
Mounting: SURFACE
Enclosure: NEMA 1
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING
Mains Type: MCB
Bus Rating: MCB Rating: 200 A

CKT	Circuit Description	Notes	Trip	Poles	A (VA)	B (VA)	C (VA)	Poles	Trip	Notes	Circuit Description	CKT
1	EXISTING LOAD	--	40	3	1000	1000		3	40		EXISTING LOAD	2
3	--	--	--	--	1000	1000		--	--	--	EXISTING LOAD	4
5	--	--	--	--	1000	1000		--	--	--	EXISTING LOAD	6
7	EXISTING LOAD	40	2	1000	1000			2	40		EXISTING LOAD	8
9	--	--	--	--	1000	1000		--	--	--	EXISTING LOAD	10
11	EW1-1 (RELOCATED)	--	--	--	1500	89		1	20		W/H: CORR. W110	12
13	REC CONF. ROOM W111	20	1	720	0			1	20		SPARE	14
15	REC FILES W114	20	1		1200	0		1	20		SPARE	16
17	REC CORR. W110	20	1		900	720		1	20		Rec OFFICE W113	18
19	REC OFFICE W115	20	1	1080	0			1	20		SPARE	20
21	EXTERIOR LTG	20	1		576	0		1	20		SPARE	22
23	RECIRC. PUMP	20	1		100	0		1	20		SPARE	24
25	SPARE	20	1	0	1000			2	20		EXISTING LOAD	26
27	SPARE	20	1		0	1000		--	--	--	SPARE	28
29	SPARE	20	1		0	900		1	20		Rec OFFICE W112	30
31	SPARE	20	1	0	0			1	20		SPARE	32
33	SPARE	--	--	--	0	0		--	--	--	SPARE	34
35	SPARE	--	--	--	0	0		0	1	20	SPACE	36
37	SPARE	--	--	--	0	0		0	1	20	SPACE	38
39	SPARE	--	--	--	0	0		0	1	20	SPACE	40
41	SPARE	--	--	--	0	0		0	1	20	SPACE	42
Total Load:					6800 VA	6836 VA	6229 VA					
Total...					57 A	58 A	52 A					

Load Classification
Ltg 576 VA 125.00% 720 VA
W/H:R 1589 VA 100.00% 1589 VA Total Conn. Load: 19865 VA
Rec 5580 VA 100.00% 5580 VA Total Demand: 20009 VA
Total Conn. Current: 55 A
Total Demand Current: 56 A

Notes: