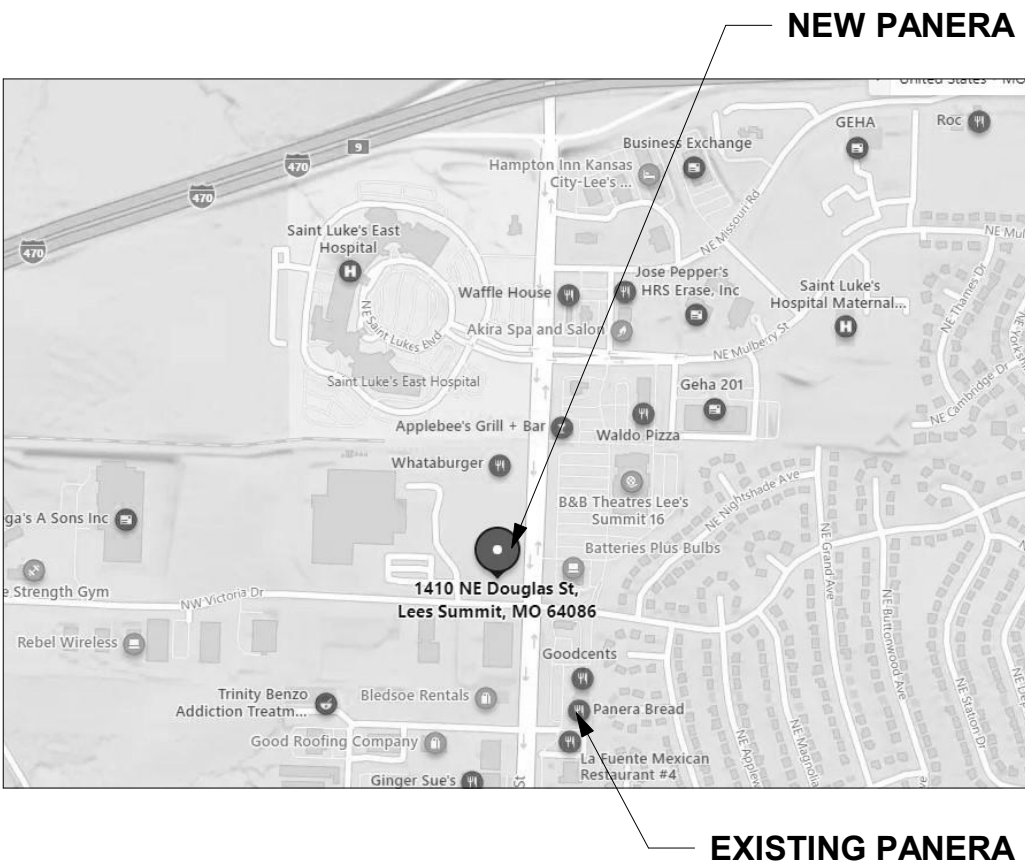




PROTOTYPE - NEW CONSTRUCTION -  
TENANT IMPROVEMENT

PANERA BREAD BAKERY-CAFE#2406  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086

SITE MAP:



CODE INFORMATION:

**APPLICABLE CODES & REGULATIONS:**  
BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE  
FIRE CODE: 2018 INTERNATIONAL FIRE CODE  
PLUMBING CODE: 2018 INTERNATIONAL PLUMBING CODE  
ELECTRIC CODE: 2017 NATIONAL ELECTRIC CODE  
MECHANICAL CODE: 2018 INTERNATIONAL MECHANICAL CODE  
GAS CODE: 2018 INTERNATIONAL FUEL GAS CODE  
ENERGY CODE: ??  
ACCESSIBILITY CODE: ICC/ANSI A117.1-2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES  
PENDING CHANGES: NONE

**CODE CLASSIFICATION:**  
A. OCCUPANCY GROUP: A-2 ASSEMBLY  
B. CONSTRUCTION CLASSIFICATION: II-B  
C. AUTOMATIC FIRE SUPPRESSION SYSTEM INSTALLED: NOT REQUIRED

**AREA BREAKDOWN:**  
TOTAL GROSS PANERA SUITE: 3,482 SQFT  
PATIO: 527 SQFT

**TRAVEL DISTANCE:**  
ALLOWED TRAVEL DISTANCE: 200 FT  
ACTUAL TRAVEL DISTANCE: 66'-0" FT MAX

PROTOTYPE INFORMATION:

THIS SET OF DOCUMENTS INCORPORATES ALL REVISIONS  
THROUGH PROTOTYPE UPDATE #2018-00.00

LANDLORD APPROVAL:

NAME
SIGNATURE
DATE

CONTACT LIST

**PANERA BREAD DESIGN MANAGER:**  
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ROGER.BOST@PANERABREAD.COM

**CONSTRUCTION PROJECT MANAGER:**  
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INDEPENDENCE, OH 44131  
PHONE: 530.520.1618  
SSABLAN@FLYNNRG.COM

**OWNER:**  
TENANT IMPROVEMENT:  
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6200 OAK TREE BLVD., SUITE 250  
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**LANDLORD:**  
STAR AQUISITIONS & DEVELOPMENT, LLC  
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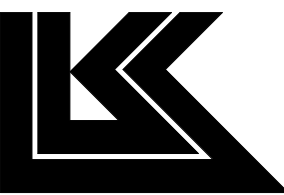
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Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

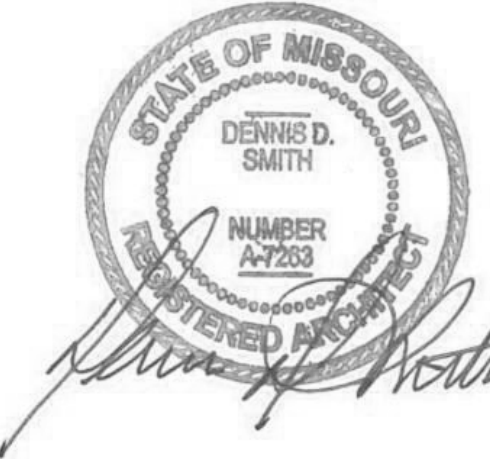


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Architecture · Engineering ·  
Planning · Interior Design ·  
Landscape Architecture

Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION - SHELL  
**Bakery Cafe#2406**  
**1410 NE DOUGLAS ST**  
**LEES SUMMIT, MO 64086**



REVISION ISSUE LOG - TI

REVISION #	ISSUE DATE	DESCRIPTION	AFFECTED SHEETS	REMARKS
1	7/18/2022	PERMIT SET - TI		

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

COVER SHEET

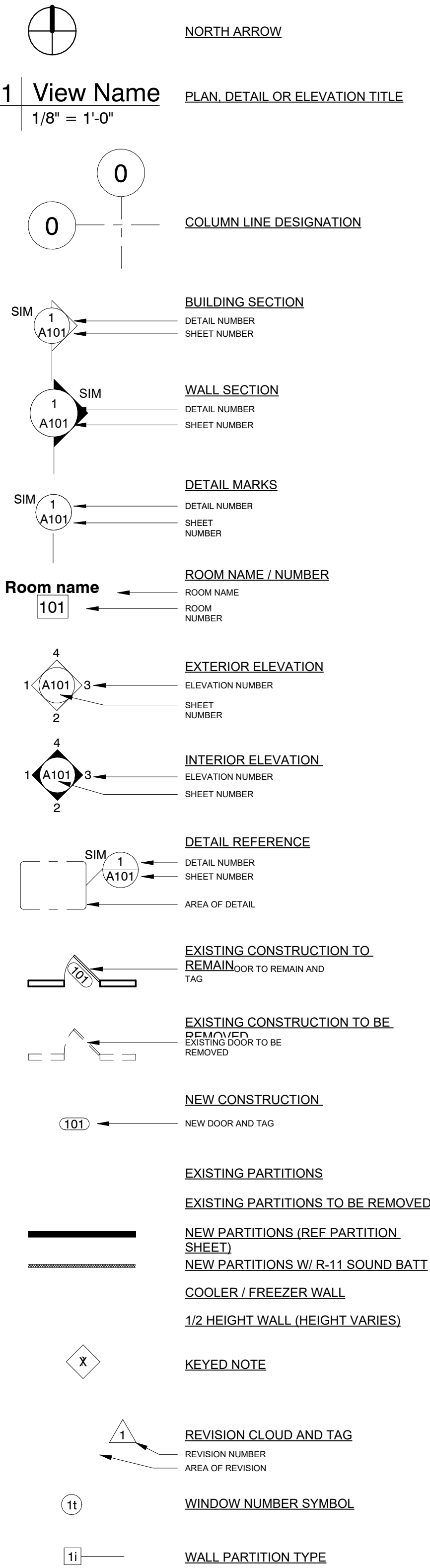
Project Number: 22169  
Drawn By: EB  
Issue Date: 07/05/2022  
DPM: DM: CPM: DPM DM CPM

G001.1

ABBREVIATIONS LEGEND

<b>A</b> AFF ACT ALT ALUM APPROX ARCH	ABOVE FINISHED FLOOR ACOUSTICAL CEILING TILE ALTERNATE ALUMINUM APPROXIMATE(LY) ARCHITECT(URAL)	<b>M</b> MAX MECH MEP MEPFP AND MTL MIN MSC	MAXIMUM MECHANICAL MECHANICAL, ELECTRICAL, AND PLUMBING MECHANICAL, ELECTRICAL, PLUMBING FIRE PROTECTION METAL MINIMUM MISCELLANEOUS
<b>B</b> BLKG BLDG BD	BLOCKING BUILDING BOARD	<b>N</b> NIC NTS	NOT IN CONTRACT NOT TO SCALE
<b>C</b> CFCI C CLG CT CLR CONC CONT CJ CORR	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED CENTERLINE CEILING CERAMIC TILE CLEAR CONCRETE CONTINUE, CONTINUOUS CONTROL JOINT CORRIDOR	<b>O</b> OFCI OFOI OC OH OPG OPP OSB	OWNER FURNISHED, CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED ON CENTER OPPOSITE HAND OPENING OPPOSITE ORIENTED STRAND BOARD
<b>D</b> DIA DIM	DIAMETER DIMENSION(S)	<b>P</b> PLAM PT PTN PWD	PLASTIC LAMINATE PAINT(ED) PARTITION PLYWOOD
<b>E</b> EA ELEC ELEV EQ EQUIP EXP EJ EXIST EXT	EACH ELECTRIC(AL) ELEVATION EQUAL EQUIPMENT EXPANSION EXPANSION JOINT EXISTING EXTERIOR	<b>Q</b> QTY  <b>R</b> REF REINF REQ REV RB	QUANTITY  REFERENCE REINFORCE(D) REQUIRED REVISION RESILIENT BASE
<b>F</b> FIN FIN FLR FE FEC FLR FD FLUOR FRT	FINISH(ED) FINISHED FLOOR FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FLOOR FLOOR DRAIN FLUORESCENT FIRE-RETARDANT TREATED	<b>S</b> SAB SC SF SIM SLNT SPEC SQ SQ FT STL SUSP SYM	SOUND ATTENUATION BATTS SOLID CORE SQUARE FOOT (FEET) SIMILAR SEALANT SPECIFICATION SQUARE SQUARE FOOT (FEET) STEEL SUSPENDED SYMMETRICAL
<b>G</b> GA GYP BD	GAUGE GYPSUM BOARD	<b>T</b> TEL TEMP TOS TOW TYP	TELEPHONE TEMPERED TOP OF STRUCTURE TOP OF WALL TYPICAL
<b>H</b> HCP HDW HT HC HM HOR HR	HANDICAPPED HARDWARE HEIGHT HOLLOW CORE HOLLOW METAL HORIZONTAL HOUR	<b>U</b> UL UNO	UNDERWRITERS LABORATORIES, INC. UNLESS NOTED OTHERWISE
<b>I</b> INCL INSUL INT	INCLUDE(D) INSULATION INTERIOR	<b>V</b> VERT	VERTICAL
<b>J</b> JT	JOINT	<b>W</b> WC W/ W/O WD	WALL COVERING WITH WITHOUT WOOD
<b>L</b> LAM	LAMINATE		

SYMBOLS LEGEND



GENERAL CONDITIONS...

- PERMITS: CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS.
- QUALITY: CONTRACTOR SHALL PERFORM ALL WORK AND INSTALL ALL COMPONENTS IN A PROFESSIONAL MANNER. ALL FINISH WORK TO BE TRUE, LEVEL AND PLUMB. ALL JOINTS TO BE TIGHT AND CLEAN.
- CODE COMPLIANCE: WORK SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES INCLUDING NFPA; AND USE TESTED AND CERTIFIED ASSEMBLIES, AS REQUIRED BY CODE.
- HANDICAP ACCESSIBILITY: CONTRACTOR SHALL COMPLY WITH ACCESSIBILITY GUIDELINES 36 CFR PART 1191 OF THE FEDERAL REGISTER, ITS REVISIONS TO ANSI STANDARD A117.1, AND TITLE III OF THE AMERICAN'S WITH DISABILITY ACT (ADA), AND LOCAL ORDINANCES
- WARRANTY: ALL CONSTRUCTION, MATERIALS, PRODUCTS AND WORK TO BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE TENANT.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NO MEASUREMENTS SHALL BE SCALED FROM THE DRAWINGS. CONTRACTOR SHALL OBTAIN CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION IF A DIMENSION(S) IS IN QUESTION.
- CONTRACTOR IS ADVISED THAT PORTIONS OF THIS DOCUMENT MAY BE BASED ON UNFIELD VERIFIED INFORMATION PROVIDED BY OTHERS IN ACCORDANCE WITH THE OWNERS DIRECTIONS. CONTRACTOR TO ADVISE ARCHITECT OF ANY EXISTING CONDITION DIFFERENT FROM THAT NOTED WHICH MAY IMPACT CONSTRUCTION PRIOR TO EXECUTION.
- DIMENSIONS AND NOTES ON ENLARGED PLANS AND DETAILS ARE TO OVERRULE SMALLER SCALE DRAWINGS. ALL DIMENSIONS ARE TO FACE OF DRYWALL UNLESS NOTED OTHERWISE.
- TURN OVER TO LANDLORD OR SAVE FOR REUSE THE FOLLOWING ITEMS WHEN DISMANTLED:
  - DOORS, FRAMES, & DOOR HARDWARE AS INDICATED.
  - THERMOSTATS.
  - SUPPLY AND RETURN AIR GRILLES.
  - ADDITIONAL ITEMS INDICATED ON PLAN.
  - EXISTING LIGHT FIXTURES INDICATED ON PLAN.

- CLEAN UP: REMOVE ALL DEBRIS, PACKING MATERIAL, DEMOLISHED MATERIAL, AND EXTRANEIOUS TRASH GENERATED BY CONSTRUCTION FROM BUILDING & SITE UNLESS NOTED. TO BE TURNED OVER TO LANDLORD. ALL DEMOLISHED MATERIAL NOT TO BE TURNED OVER TO LANDLORD SHALL BECOME THE PROPERTY OF GENERAL CONTRACTOR.

- BUILDING STANDARDS: ALL MATERIAL, HARDWARE, FIXTURES, AND FINISHES TO BE BUILDING STANDARD UNLESS NOTED OTHERWISE. BUILDING STANDARD INFORMATION IS AVAILABLE THROUGH THE TENANT'S REPRESENTATIVES, AND TYPICALLY MATCHES EXISTING INTERIOR CONSTRUCTION.

- SITE VISIT: ALL GENERAL CONTRACTORS & SUBCONTRACTORS ARE TO VISIT SITE PRIOR TO COMPLETING BID TO VERIFY EXISTING CONDITION. GENERAL CONTRACTOR & SUBCONTRACTORS TO PROVIDE WRITTEN DOCUMENTATION OF ANY DISCREPANCY BETWEEN SITE CONDITIONS & DOCUMENTS. SUBMISSION OF BID IS CONFIRMATION THAT EXISTING CONDITIONS HAVE BEEN FULLY TAKEN INTO CONSIDERATION & ARE REFLECTED IN THE COSTS PROVIDED.

- CONTRACTOR TO PROVIDE 2X FIRE RESISTANT BLOCKING AS NECESSARY BEHIND ALL WALL MOUNTED INSTALLATIONS.

- CONTRACTOR TO PROVIDE BUILDING CONSTRUCTION REPRESENTATIVE WITH COPIES OF DELIVERY, AND CONSTRUCTION SCHEDULES. CONTRACTOR TO COORDINATE ALL SCHEDULES WITH BUILDINGS CONSTRUCTION REPRESENTATIVE.

- IF EXTERIOR WINDOWS ARE BEING ENCLOSED CONTRACTOR IS TO CLEAN ALL WINDOWS, SHADES, CAVITY AREA FROM CONSTRUCTION DUST AND DEBRIS PRIOR TO ENCLOSING EXTERIOR WINDOWS.

- CUTTING & PATCHING: CONTRACTOR TO PATCH, REPAIR, & REFINISH WORK DAMAGED AS A RESULT OF DEMOLITION OR REMOVAL OF CONSTRUCTION TO MATCH ADJACENT FINISH. PATCH THRU-WALL THRU-FLOOR PENETRATIONS TO MAINTAIN EXISTING BUILDING INTEGRITY.

- USE 3M NON-INTUMESCENT FIRE STOPPING AS FOLLOWS:
  - FIRE DAM 150 CAULK FOR WALL & FLOOR PENETRATION SEALS, TO MEET OR EXCEED ASTM E 814 (UL1479) AND/OR ASTM E 119 (UL263); STRUCTURAL STEEL, AND ELECTRICAL & CONTROL SYSTEM, TO MEET OR EXCEED ASTM E 119 (UL263) AND HIGH INTENSITY FIRE TEST (UL 1709).
  - FIRE BARRIER 2001 SILICONE RTV FOAM FOR CABLE BUNDLES AND TRAYS, TRAYS CONDUIT BUNDLES AND MULTIPLE PIPE RUNS, AND OTHER LARGE OPENINGS TO MEET OR EXCEED ASTM E 814 AND TO COMPLY WITH CURRENTLY APPLICABLE REQUIREMENTS OF THE NEC (NFPA-70), BOCAI, ICBO, SBCCI, IBC AND NFPA CODE #101.

- ALL NEW CONCRETE FLOORING SECTIONS TO BE DOWELED AND PINNED TO EXISTING CONCRETE SLAB

- ALL ROOF WORK TO BE COMPLETED BY LANDLORD'S APPROVED ROOFING CONTRACTOR

- FIRE PROTECTION: GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE, EXTEND, OR REVISE ALARM SYSTEMS AS REQUIRED TO COMPLY WITH APPLICABLE CODES. COORDINATE WORK WITH OWNER'S REPRESENTATIVES WHERE MODIFYING OR TYING INTO EXISTING SYSTEMS. GENERAL CONTRACTOR SHALL PREPARE REQUIRED DRAWINGS AND OBTAIN BUILDING PERMITS FOR ALARM SYSTEM WORK.

- CONTRACTOR TO REQUEST FROM LANDLORD A COPY OF ALL BUILDING RULES & REGULATIONS. THESE RULES & REGULATIONS TO BE FULLY COMPLIED WITH AT ALL TIMES DURING CONSTRUCTION BY THE GENERAL CONTRACTOR & SUB-CONTRACTOR(S). CONTRACTOR TO PROVIDE STATEMENT OF QUALIFICATIONS & INSURANCE CERTIFICATES AS NECESSARY TO THE BUILDING'S REPRESENTATIVE.

- CONTRACTOR TO MAINTAIN CLEAR ACCESS TO ALL DRIVE & ENTRANCES WHILE ON SITE.

- CONTRACTOR TO STORE & INSTALL AS NECESSARY ANY OWNER-PROVIDED EQUIPMENT. REFER TO DOCUMENTS FOR FURTHER DETAIL.

- NOT USED

GENERAL CONDITIONS...

- EXISTING CONDITIONS DOCUMENTS PROVIDED FOR REFERENCE ONLY. ANY WORK INDICATED HAS ALREADY BEEN COMPLETED.

- ALL AREAS MUST BE COMPLETELY CLEAN & CLEAR OF ANY CONSTRUCTION MATERIALS @ A MINIMUM OF (2) HOURS BEFORE THE CAFE OPENS EACH DAY.

- WOOD DOORS: REFER TO DOCUMENTS FOR FURTHER DETAIL.

- METAL DOORS: REFER TO DOCUMENTS FOR FURTHER DETAIL.

- FRAMES: REFER TO DOCUMENTS FOR FURTHER DETAIL.

- HARDWARE STANDARD: PROVIDE DOOR HARDWARE IN ACCORDANCE W/ SCHEDULE. ALL LOCKSET/LATCH/SET HARDWARE COMPLY W/TITLE III OF AMERICANS WITH DISABILITIES ACT (ADA). GENERAL CONTRACTOR TO COORDINATE KEYING WITH OWNER REPRESENTATIVE.

- DRYWALL: REFER TO PARTITION DETAILS FOR FURTHER INFORMATION.

- RESILIENT BASE: PROVIDE 6" HIGH RUBBER COVE BASE IN 100' ROLLS. REFER TO DOCUMENTS FOR FURTHER DETAILS.

- PAINT: PROVIDE 2 COATS OF ALKYD SEMI-GLOSS ENAMEL FINISH COLOR ON METAL DOORS & FRAMES AS INDICATED ON DRAWINGS.

- PAINT: PROVIDE 2 COATS OF PREMIUM BENJAMIN MOORE (NO SUBSTITUTIONS ALLOWED) EGGSHELL FINISH COLOR ON ALL NEW SURFACES AS INDICATED ON DRAWINGS. PRIME NEW/EXISTING SURFACES & PATCH AS REQUIRED.

- SOUND BATT INSULATION (WALLS ONLY): SHALL BE UNFACED GLASS FIBER ACOUSTICAL INSULATION COMPLYING WITH ASTM C865, TYPE 1, SIZED AS INDICATED IN DETAILS. MAXIMUM FLAME SPREAD: 10, STC ABOVE 55.

- SOUND ATTENUATION (ABOVE CEILINGS) SHALL BE 3" UNFACED, LIGHT WEIGHT, RESILIENT FIBERGLASS DESIGNED TO ABSORB SOUND AND SPECIFICALLY MANUFACTURED FOR USE ABOVE CEILINGS. MAXIMUM FLAME SPREAD: 25 STC ABOVE 55. NO SOUND ATTENUATION INSULATION IS TO BE USED ABOVE FINISHED CEILING IN FOOD PREPARATION AREAS.

- ALL FLOORING PRODUCTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS & SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL FLOOR LEVELING THAT MAY BE REQUIRED IN ORDER TO COMPLY WITH PROPER INSTALLATION PROCEDURE.

- ACOUSTICAL CEILING: SHALL BE AS INDICATED OR AS CALLED FOR IN NOTES. INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS.

- EXTERIOR SIGNAGE, IF INDICATED, TO COMPLY WITH ALL CITY REGULATION AND BUILDING DESIGN STANDARDS. ADVISE ARCHITECT OF ANY CONFLICTS. ALL SIGNAGE PROVIDED BY OWNER, U.N.O.

- CONTRACTOR SHALL PROVIDE MASTER KEY LOCK BOX IN ACCORDANCE TO CITY REGULATION FOR APPROVAL BY LOCAL FIRE DEPARTMENT.

- CONTRACTOR TO PROVIDE SUITE NUMBERS AT EXTERIOR ENTRIES AS REQUIRED BY CITY REGULATIONS AND APPROVED BY LOCAL FIRE DEPARTMENT AND LANDLORD. CONTRACTOR TO COORDINATE SIGNAGE TYPE AND LOCATION WITH ARCHITECT.

- HVAC: REFERENCE MECH. DOCUMENTS FOR INFORMATION AND LAYOUT. G.C. IS RESPONSIBLE FOR SCHEDULING AND PROVIDING A TEST AND BALANCE REPORT TO PANERA REPRESENTATIVE PRIOR TO TURNOVER. GC SHALL USE AN AABC OR NEBB INDEPENDENT THIRD PARTY AIR BALANCE COMPANY. THE REPORT SHALL BE AVAILABLE ON JOB SITE PRIOR TO FINAL INSPECTION.

- PROVIDE MATERIAL & INSTALLATION ALLOWANCE FOR TWO (2) CLASS C FIRE EXTINGUISHERS AS REQUIRED TO MEET LOCAL FIRE OFFICIALS REQUEST AND TO MEET NFPA. CONTRACTOR TO COORDINATE WITH FIRE MARSHALL TO DETERMINE EXACT QUANTITY & LOCATION OF ALL EXTINGUISHERS. ABC, RATING: 10 BC 15 LBS.

- PLUMBING: FIXTURES LOCATED ON ARCHITECTURAL SHEETS FOR GENERAL REFERENCE ONLY. REFER TO PLUMBING SHEETS FOR ROUGH-IN DETAILS.

- FIRE PROTECTION: GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE, EXTEND, OR REVISE ALARM SYSTEMS AS REQUIRED TO COMPLY WITH APPLICABLE CODES. COORDINATE WORK WITH OWNER'S REPRESENTATIVES WHERE MODIFYING OR TYING INTO EXISTING SYSTEMS. GENERAL CONTRACTOR SHALL PREPARE REQUIRED DRAWINGS AND OBTAIN BUILDING PERMITS FOR ALARM SYSTEM WORK.

- ALL ELECTRICAL RECEPTACLES TO BE MOUNTED AT MIN. 16" A.F.F. U.N.O. TO CENTERLINE. ALL LIGHT SWITCHES AND THERMOSTATS TO BE MOUNTED AT 48" A.F.F. TO CENTERLINE.

- ELECTRICAL, DATA, AND COMMUNICATIONS OUTLETS ARE PROVIDED FOR REFERENCE ONLY. REFERENCE ELEC. DOCUMENTS FOR ADDITIONAL ELECTRICAL INFORMATION ON SWITCHING, ADDITIONAL OUTLETS, EQUIPMENT ROOM REQUIREMENTS, ETC.

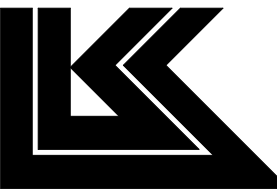
- IF ANY DISCREPANCY EXISTS IN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR IS RESPONSIBLE FOR CLARIFYING WITH THE ARCHITECT. THE ARCHITECT, ONLY, SHALL INTERPRET THE PLANS AND SPECIFICATIONS. THE GENERAL CONTRACTOR SHALL RESOLVE FIELD CONDITIONS NOT SHOWN ON THE DRAWINGS WITH THE ARCHITECT.

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

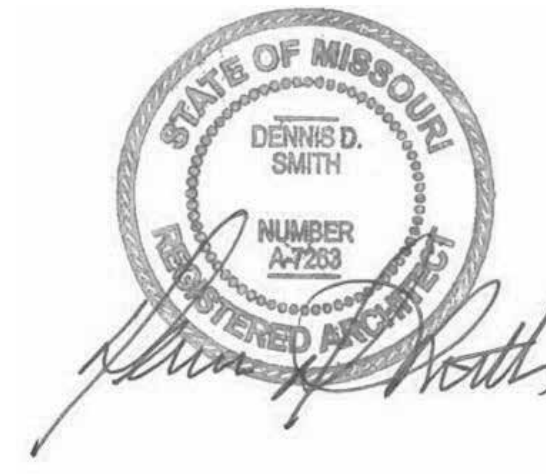


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Architecture · Engineering ·  
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Professional Seal:



Project Title:

PROTOTYPE - NEW/CONSTRUCTION - SHELL  
**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



Consultant Copyright Placeholder

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

GENERAL NOTES,  
SYMBOLS, LEGENDS  
& ABBREVIATIONS

Project Number: Sheet Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DFM:

DPM

DM:

DM

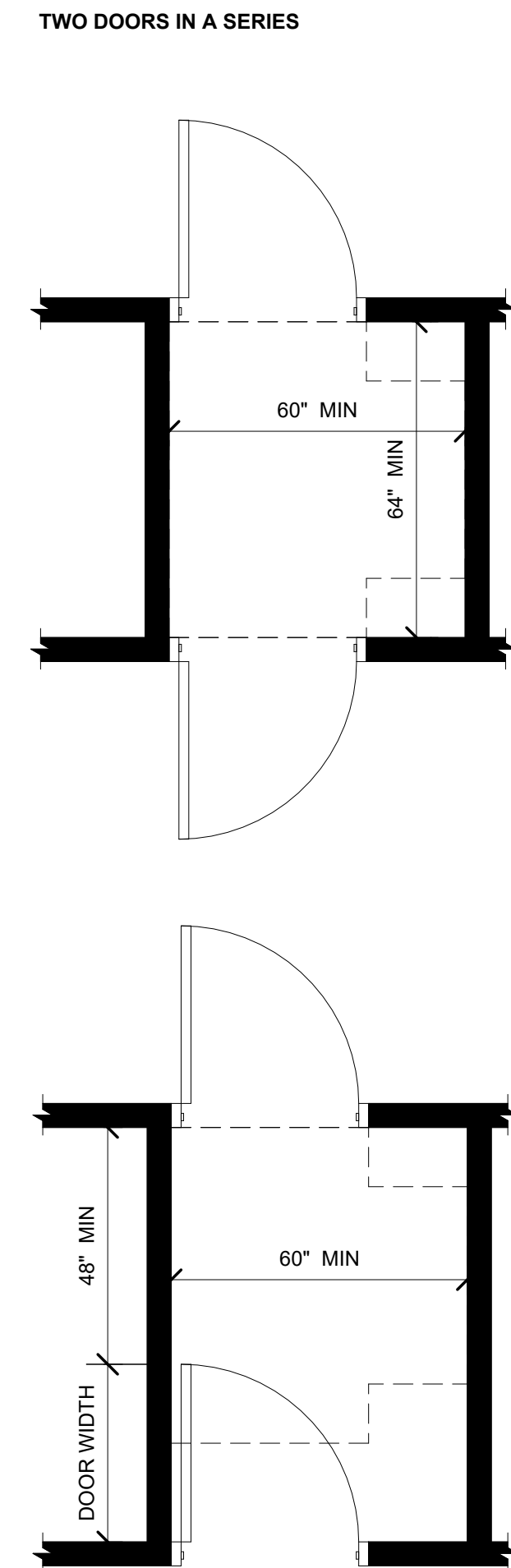
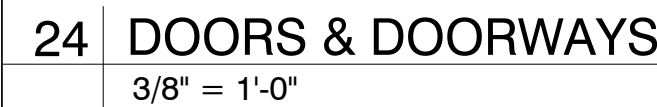
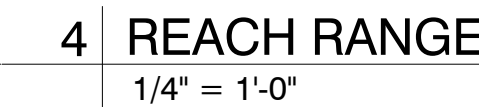
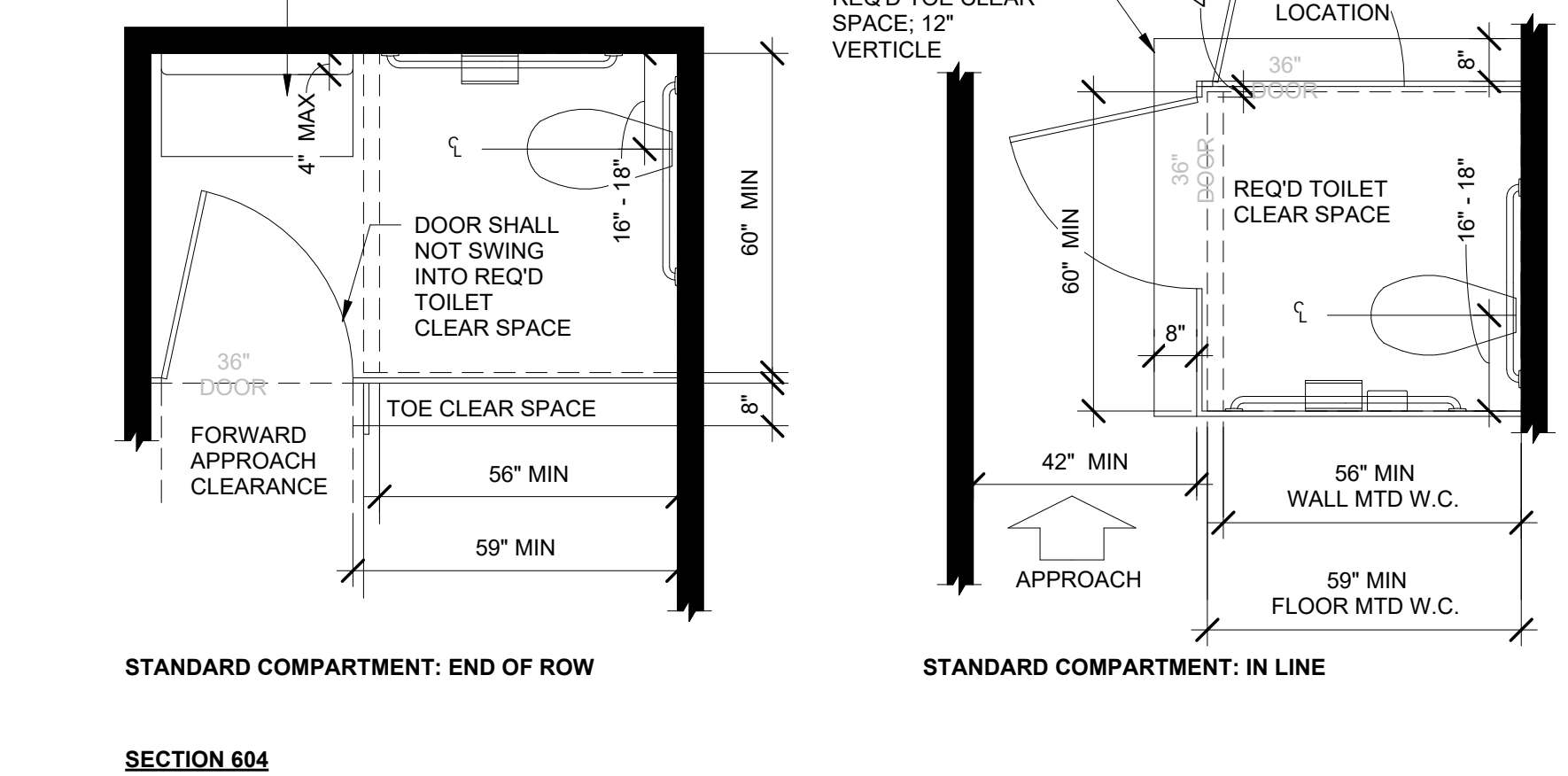
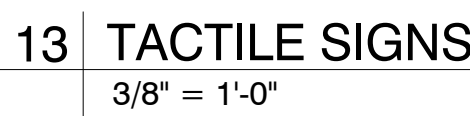
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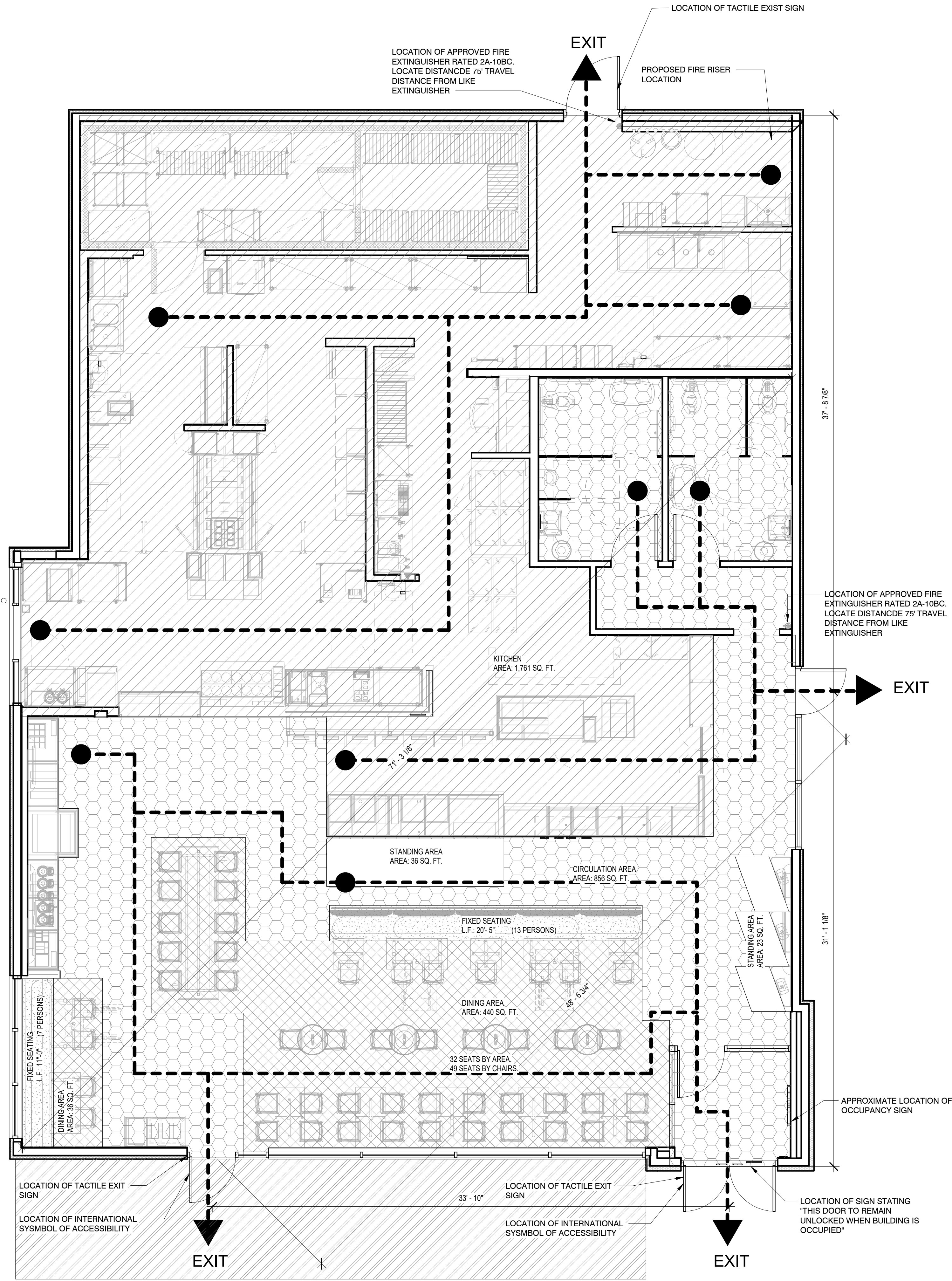
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## GENERAL NOTES

- TACTILE EXIT SIGNS TO BE MOUNTED BETWEEN 4'-6" AND 5'-0" AFF. ON HINGE SIDE OF ALL EXTERIOR EXIT DOORS.
- ONE 2A10BC DRY CHEMICAL FIRE EXTINGUISHER IS REQUIRED FOR EACH 3,000 SQ. FT. OF FLOOR AREA WITH THE TRAVEL DISTANCE NOT TO EXCEED 75 FEET.
- ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- AT LEAST 5%, BUT NO LESS THAN ONE OF THE SEATING SPACES IN EACH FUNCTIONAL AREA SHALL BE ACCESSIBLE.  
CALCULATION FOR NUMBER OF ACCESSIBLE SEATS:  
(INTERIOR SEATS) 100 x 5% = 5  
(EXTERIOR SEATS) 26 x 5% = 2
- ACCESS TO ACCESSIBLE SEATING SPACES SHALL BE PROVIDED BY MAIN AISLES (ACCESSIBLE ROUTE) A MINIMUM WIDTH OF 36".
- A MINIMUM OF 30" BY 48" CLEAR FLOOR SPACE SHALL BE PROVIDED AND SHALL NOT OVERLAP THE KNEE SPACE MORE THAN 14".
- FIXED TABLES AND COUNTERS: HEIGHT OF TABLES NAD COUNTERS SHALL BE 28" MINIMUM AND 34" MAXIMUM.
- MANEUVERING CLEARANCE: A MINIMUM OF 36" x 48" CLEAR FLOOR SPACE SHALL BE PROVIDED, KNEE CLEARANCE SHALL BE AT LEAST 27" HIGH, 30" WIDE AND 10" DEEP.
- FINAL EXTINGUISHER LOCATIONS TO BE APPROVED BY FIRE MARSHAL.

## APPLICABLE BUILDING CODES

BUILDING CODE	2018 IBC
PLUMBING CODE	2018 IPC
ELECTRICAL CODE	2017 NATIONAL ELECTRICAL CODE
MECHANICAL CODE	2018 INTERNATIONAL MECHANICAL CODE
ENERGY CODE	
FIRE CODE	2018 INTERNATIONAL FIRE CODE
ACCESSIBILITY CODE	2009 AMERICANS WITH DISABILITIES ACT, ICC/ANSI A117.1

## BUILDING INFORMATION

CONSTRUCTION TYPE	TYPE V - B
SPRINKLERED	BUILDING IS NON-SPRINKLERED

## LEGEND

	CIRCULATION AREA: 855 SQ. FT.		DINING AREA & CAFE AREA: 475 SQ. FT.
	FIXED SEATING AREA: 70 SQ. FT.		KITCHEN AREA: 1,761 SQ. FT.
	STANDING ROOM AREA: 59 SQ. FT.		PATIO AREA: 325 SQ. FT.

INTERIOR AREA (NET): 3,220 SQ. FT.  
PATIO AREA: 325 SQ. FT.

## ALLOWABLE AREA

PER 2018 IBC	
PRIMARY OCCUPANCY	A-2   ASSEMBLY
MAXIMUM ALLOWABLE BUILDING AREA	6000 SF, ACTUAL 3,493
TRAVEL DISTANCE (PER 2018 IBC TABLE 1016.2)	150FT ALLOWED

## OCCUPANT LOAD

OCCUPANT LOAD COUNT TABLE PER 2018 IBC TABLE 1004.1.2

	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	AREA (SQFT)	OCCUPANTS
DINING AREA	UNCONCENTRATED	15	475	32 (49 SEATS)
CIRCULATION	UNCONCENTRATED	0	855	0
KITCHEN	KITCHEN: COMMERCIAL	200	1761	9
STANDING AREA	STANDING AREA	5	59	12

FIXED SEATING		
TOTAL LINEAL LENGTH	LINEAL IN. PER OCC.	PERSONS
20'-5"	18	13
11'-0"	18	7

TOTAL INTERIOR OCCUPANTS:	90
PATIO:	SEAT COUNT: 22
TOTAL OCCUPANTS (INCLUDING PATIO):	112

## EXIT REQUIREMENTS

PER 2018 IBC SECTION 1015.2.1	
LONGEST INTERIOR DIAGONAL DIMENSION	71'-3 1/8"
MIN. DISTANCE BETWEEN DOORWAYS (SPRINKLED)	71'-3 1/8" = 35'-7 1/2"
ACTUAL DISTANCE BETWEEN CLOSEST DOORWAYS	48' - 6 3/4"

## ALLOWABLE EGRESS WIDTH

PER 2018 IBC SECTION 1005.3.2

	OCCUPANTS	FACTOR (IN.)	(IN.)
INTERIOR	90	0.20	18
EXTERIOR PATIO SPACE W/OUT SPRINKLER	22	0.20	4.4
MINIMUM EGRESS OPENING WIDTH REQUIRED			22.2
MINIMUM DOOR SIZE (PER 1008.1.1) [CLEAR OPENING]			32.00
	MAIN EXIT (IN.)	SECONDARY (IN.)	TOTAL (IN.)
ACTUAL EGRESS OPENING WIDTH PROVIDED	34	34	68.0

## PLUMBING CALCULATIONS

PER 2018 IPC					
BUILDING OCCUPANCY (TOTAL)	112				
				TOTAL MEN/WOMEN	112
				LAVATORIES	
				OTHER	
BUILDING ASSEMBLY	MALE	FEMALE	MALE	FEMALE	
A-2	1:100	1:100	1:200	1:200	
REQUIRED	2	2	1	1	1 SERVICE SINK
PROVIDED	1+1 URNIAL	2	1	1	1

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

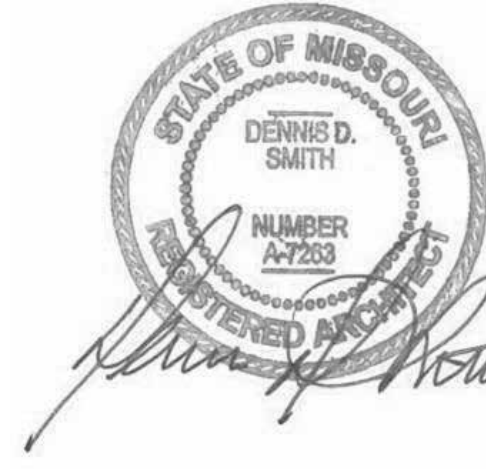


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Project Title:

**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086

PROTOTYPE - NEW CONSTRUCTION - SHELL



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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

## LIFE SAFETY PLAN

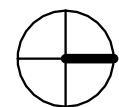
Project Number: 22169 Sheet Number: G132

Drawn By: Author: Issue Date: 07/05/2022

DFM: DM: CPM: DPM DM CPM

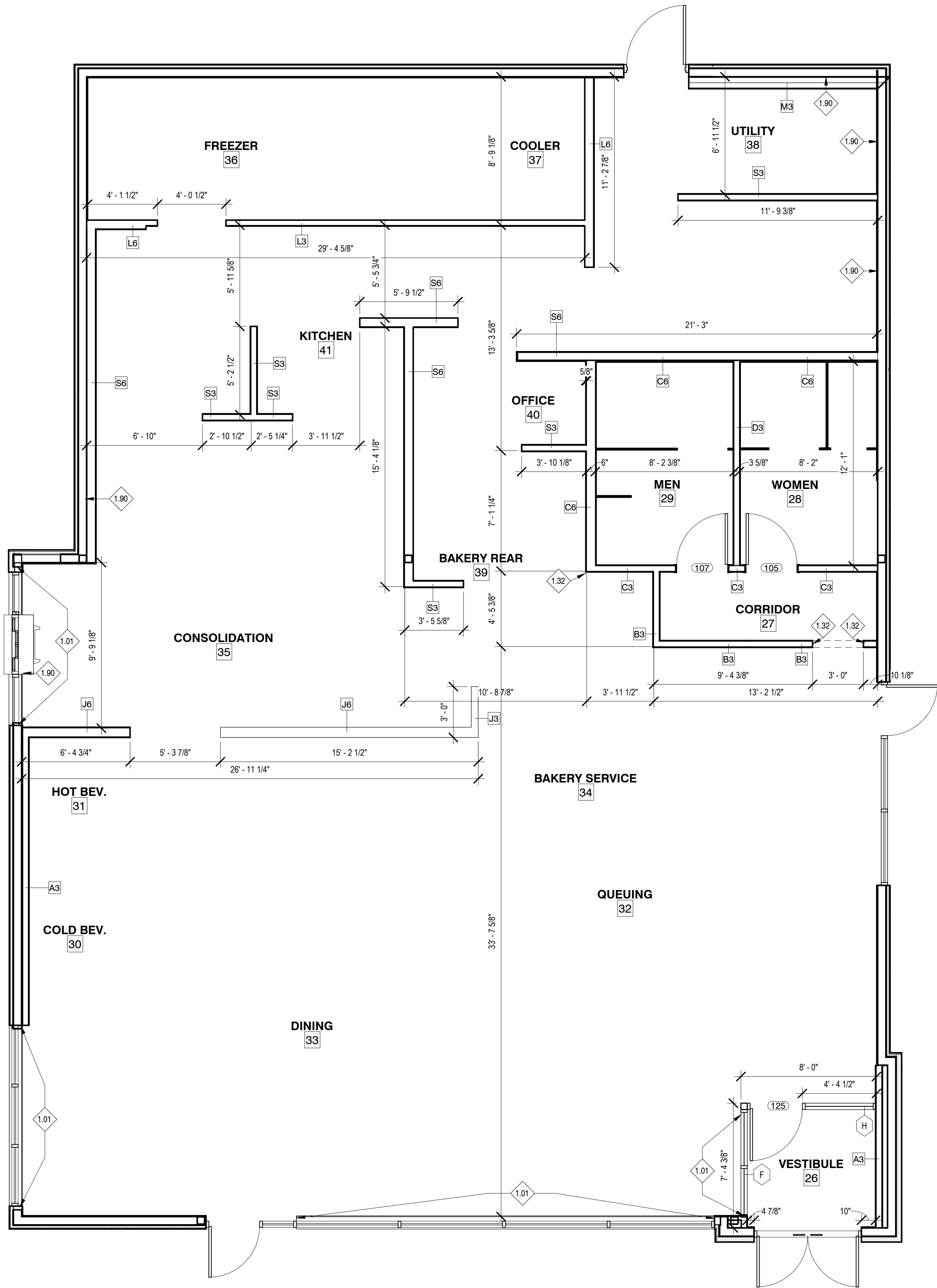
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24 FLOOR PLAN - DIMENSIONED AND KEY NOTED - TI

1/4" = 1'-0"



GENERAL NOTES:

- A. PROVIDE 2" AIR SPACE AT SIDE(S) OF OVEN/PROOFER & COOLER/FREEZER (MIN. 3" AT BACK OF OVEN). VERIFY ALL DIMENSIONS & SPECS WITH EQUIPMENT MANUAL. NO FINISH ON WALLS BEHIND OVEN/PROOFER & COOLER/FREEZER (TAPE & PRIME ONLY).
- B. OFFICE AREA TO INCLUDE THE FOLLOWING (SUPPLIED AND INSTALLED BY G.C.): ROUGH-INS FOR PHONE, ALARM, SOUND, & MICROS SYSTEM. SEE ELECTRICAL SHEETS; 2'-0" x CUSTOM LENGTH PLASTIC LAMINATE ALMOND DESK TOP CLEATED TO WALL, W/ (2) 2" DIA. GROMMETS; (4) 16" DEEP PLASTIC LAMINATE WHITE SHELVES MOUNTED ON HEAVY-DUTY KV STANDARDS W/ ADJUSTABLE BRACKETS.
- C. G.C. TO PROVIDE BLOCKING FOR SUPPORT OF RESTROOM ACCESSORIES AS RECOMMENDED BY MANUFACTURER. SEE INTERIOR ELEVATIONS.
- D. PROVIDE 5/8" CEMENT BACKING BOARD ON ALL KITCHEN, RESTROOM, & OFFICE WALLS FROM FLOOR TO 2'-0" A.F.F. AT WORKROOM WALLS WITH TILE FINISH, PROVIDE CEMENT BOARD TO 6'-0" A.F.F. PROVIDE 5/8" PLYWOOD BACKING BOARD ON KITCHEN & OFFICE WALLS (2'-0" AFF TO CEILING), SEE PARTITION SCHEDULE FOR WORKROOM WALLS W/ TILE FINISH.
- F. OCCUPANCY LOAD SIGN SUPPLIED AND INSTALLED BY G.C.
- G. G.C. SHALL SUPPLY AND INSTALL RECESSED FIRE EXTINGUISHERS AS REQUIRED BY LOCAL CODES. LOCATION PER LOCAL CODES.
- H. REFERENCE THE FOLLOWING SHEETS: G011 GENERAL NOTES, SYMBOLS, AND LEGENDS AND G021 ACCESSIBILITY GUIDELINES.
- I. ALL DIMENSIONS NOTED ARE FROM FACE OF DRYWALL TO FACE OF DRYWALL.
- J. BOOTHBANQUETTE SEATING SUPPLIED BY FURNITURE SUPPLIER, INSTALLED BY G.C.
- K. ELECTRICAL EQUIPMENT BY G.C. SEE ELECTRICAL DRAWINGS.
- L. PLUMBING EQUIPMENT BY G.C. SEE PLUMBING DRAWINGS.
- M. G.C. TO PROVIDE & INSTALL 1/4" CLEAR SAFETY GLASS AT SNEEZE GUARDS. VERIFY SIZE OF GLASS W/ SNEEZE GUARD POSTS.
- N. LAP TILE AT OUTSIDE CORNERS, TURN CUT TILE EDGE TOWARD GROUT, ALL EXPOSED EDGES TO BE FACTORY FINISHED.

WALL LEGEND:

- NEW PARTITION, REFER TO PARTITION TYPES ON SHEET A121
- PARTIAL HEIGHT PARTITION, HEIGHT VARIES. REFER TO ELEVATIONS ON SHEETS A511 AND A512
- COOLER/FREEZER WALL
- SOFFIT ABOVE, REFER TO REFLECTED CEILING PLAN ON SHEET A301 FOR HEIGHT

KEYED NOTES

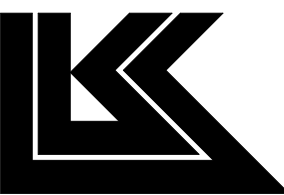
- 1.01 SOLID SURFACE SILL PROVIDED BY CASEWORK SUPPLIER, INSTALLED BY GC; COLOR: SS28. DIMENSIONS TO BE FIELD VERIFIED.
- 1.32 INSTALL WD1 VERTICAL WOOD TRIM PIECE ALONG END OF WALL. REFER TO FINISH PLAN, INTERIOR ELEVATIONS, AND 4/A510 FOR FURTHER INFORMATION.
- 1.90 24" DUROCK AT TILE BASE WITH 5/8" PLYWOOD ABOVE AT BOH EXTERIOR WALLS.

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:



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PROTOTYPE - NEW CONSTRUCTION - SHELL

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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

FLOOR PLAN -  
DIMENSIONED AND  
KEYED NOTES

Project Number:

Sheet Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DFM:

DM:

CPM:

DPM

DM

CPM

A103





Project Title

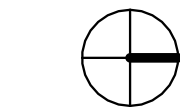
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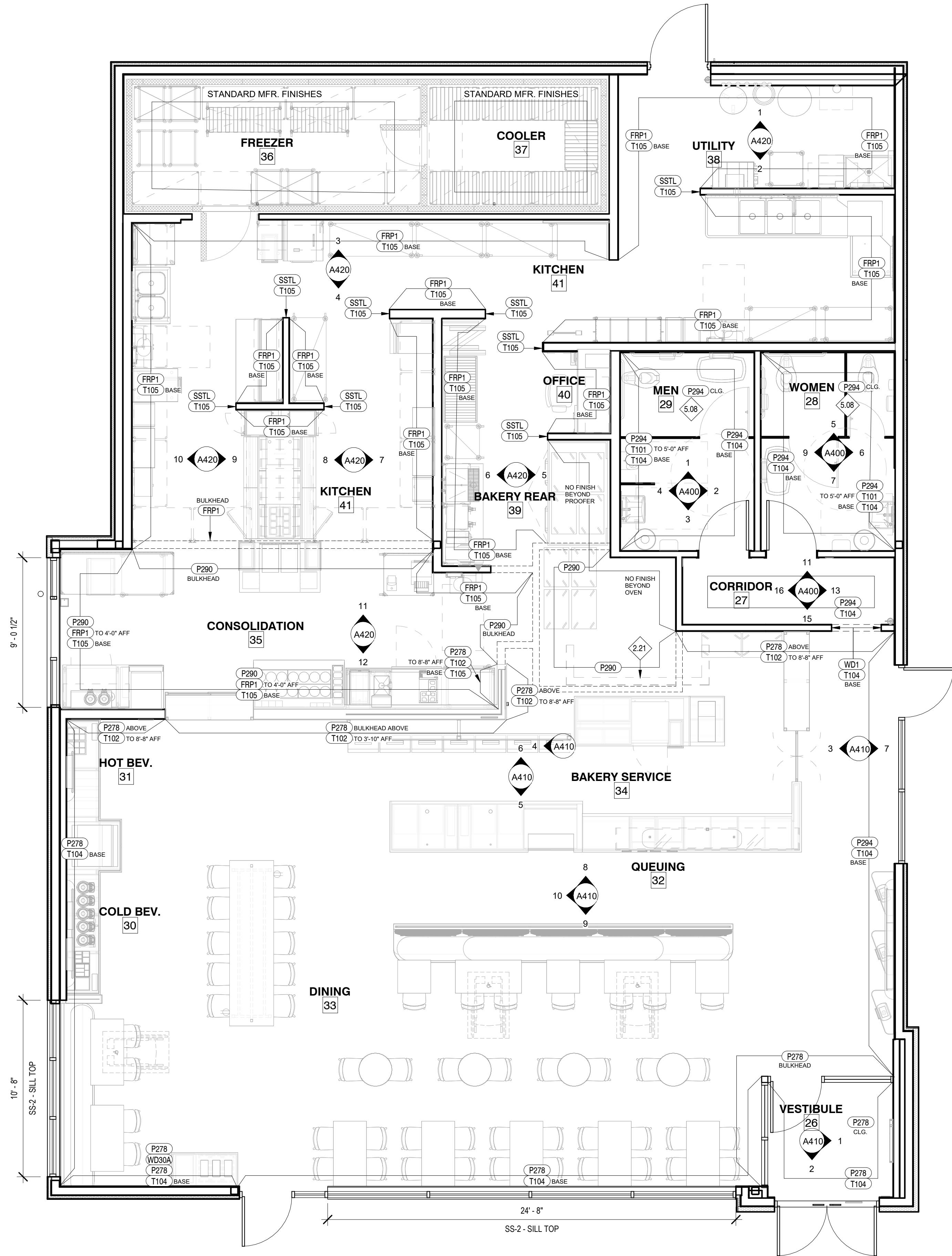
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24 WALL FINISH PLAN

1/4" = 1'-0"



GENERAL NOTES:

- A. IF THERE IS A CONFLICT BETWEEN THE WALL FINISH PLAN AND INTERIOR ELEVATIONS, PLEASE NOTIFY THE CONSTRUCTION PROJECT MANAGER FOR CLARIFICATION.
- B. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISH INFORMATION.
- C. REFER TO THE FLOORING DETAILS & SPECIFICATION MANUAL FOR TILE DETAILS & CONCRETE EXPANSION/CONTROL JOINTS.

KEYED NOTES

- 2.21 CASEWORK SHROUD AT OVEN HOOD, BY MILLWORK VENDOR OVER BULKHEAD BY GC.
- 5.08 PROVIDE SCHLUTER COVE TILE BASE AT ALL TILE LOCATIONS UNLESS NOTED OTHERWISE. REFER TO 18/A520 FOR FURTHER INFORMATION.

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

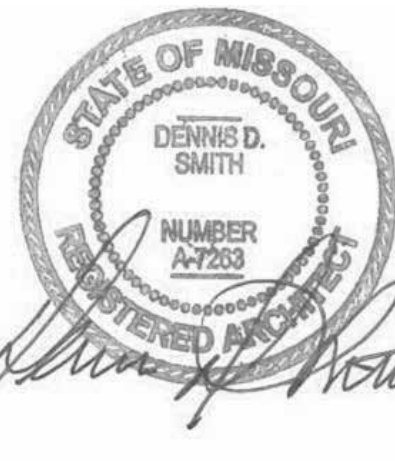


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WALL FINISH PLAN

Project Number:

Sheet Number:

22169

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Author:

Issue Date:

07/05/2022

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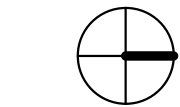
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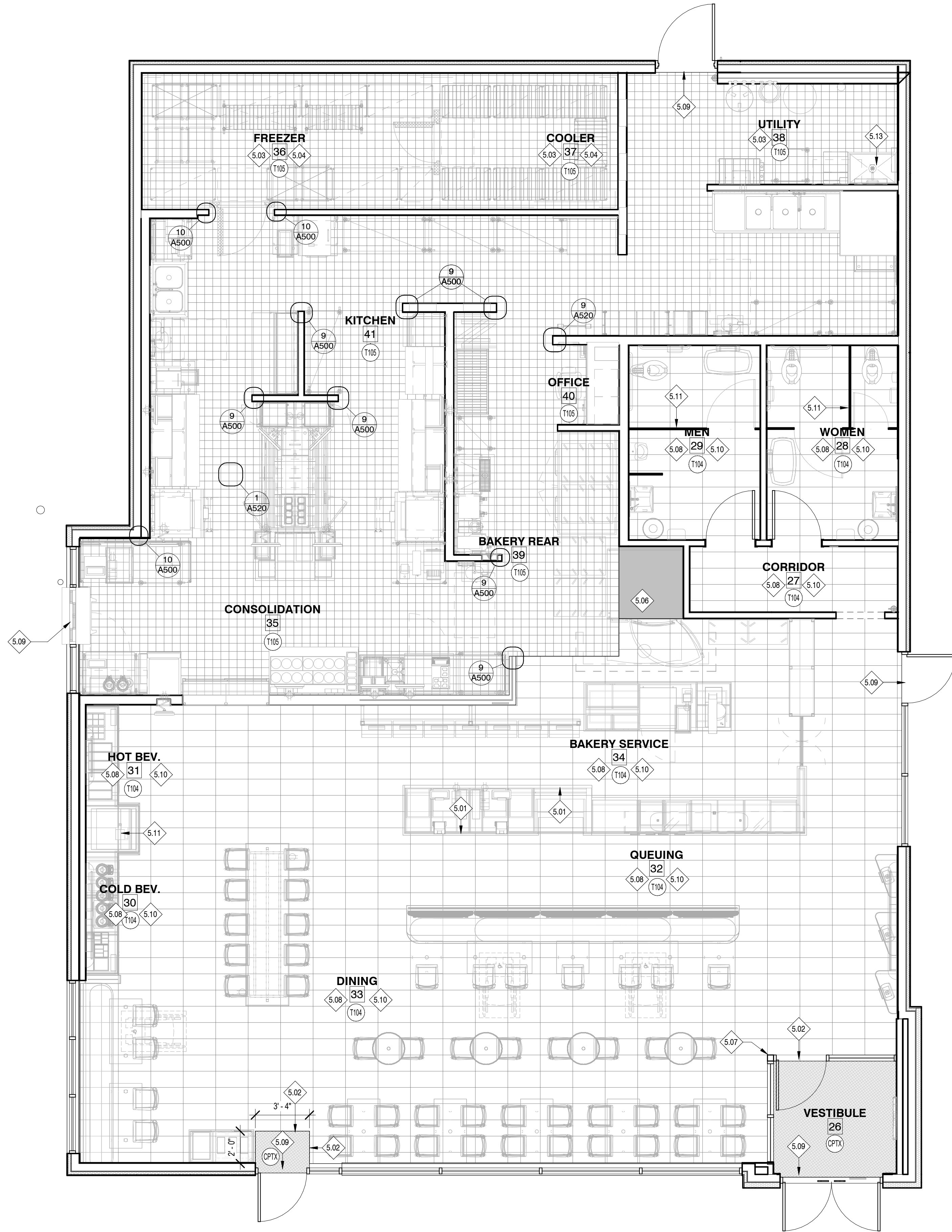
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24 FLOOR FINISH PLAN

1/4" = 1'-0"



GENERAL NOTES:

- A. NEW FLOOR TILES ARE TO BE INSTALLED AS INDICATED ON PLAN WITH FULL TILES WHEREVER POSSIBLE. SEE FINISH SCHEDULE FOR SPECIFICATIONS.
- B. ALL FLOOR FINISHES SHALL BE INSTALLED WITH TOP EDGES LEVEL W/ ADJACENT MATERIAL TOP EDGES. CONFIRM TILE THICKNESS AS THESE MAY VARY. CONFIRM THAT NO OVERALL FLOATING OF FLOOR IS REQUIRED.
- C. COORDINATE FLOORING TRANSITIONS & BASE TILE INSTALLATION W/ MILLWORK SHOP DRAWINGS & FIELD CONDITIONS.
- D. ALL THRESHOLDS SHALL HAVE A MAX HEIGHT OF 1/2" ABOVE EXISTING CONCRETE SLAB &/OR INTERIOR FINISHES.
- E. SEE FINISH SCHEDULE ON SHEET A531 FOR SPECS OF ALL FLOOR COVERINGS.
- F. TILE TRANSITION BETWEEN ROOMS TO BE CENTERED ON DOOR FRAME.
- G. SEE PLUMBING DRAWINGS FOR DIMENSIONS & LOCATIONS OF FLOOR DRAINS & FLOOR SINKS.

KEYED NOTES

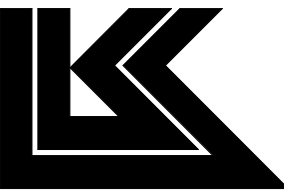
- 5.01 LINE OF TOE KICK/TILE TRANSITION AT CABINET TO BE SET DIRECTLY ON CONCRETE SUBFLOOR. 6X12 TILE BASE TO BE INSTALLED ON CUSTOMER SIDE OF CABINET. COORDINATE LOCATION W/ MILLWORK SHOP DRAWINGS & EQUIPMENT CUT SHEETS.
- 5.02 CARPET W/ SCHLUTER-SCHIENE SATIN ALUMINUM TRANSITION STRIP @ ALL TILE-CARPET. INSTALL CARPET FLUSH W/ TILE USE JOHNSONITE TILE-TO-CARPET TRANSITION TO LEVEL CARPET.
- 5.03 USE EPOXY W/ GROUT THROUGH OUT BOH AREA, INDICATED BY HATCHED AREA.
- 5.04 INSTALL QUARRY TILE IN COOLER/FREEZER. FREEZER TO HAVE RECESSED, INSULATED SLAB. REFER TO DETAIL ON SHEET A520
- 5.06 FLOAT 1/2" MARINITE STRUCTURAL, INCOMBUSTIBLE INSULATION UNDER RACK OVEN. INSET SHEETS 2" INSIDE OVEN FRAME. LEAVE 1/8" CLEARANCE AT EDGE OF TILE. SEAL GAP WITH HIGH TEMPERATURE CAULK. SEE SHEET A531 FOR VENDOR CONTACT INFO.
- 5.07 START FLOOR TILE PATTERN THIS LOCATION
- 5.08 PROVIDE SCHLUTER COVE TILE BASE AT ALL TILE LOCATIONS UNLESS NOTED OTHERWISE. REFER TO 18/A520 FOR FURTHER INFORMATION.
- 5.09 DOOR THRESHOLD MAX. 1/2" ABOVE EXTERIOR CONCRETE SLAB. SEE SHEET A601.
- 5.10 FLOOR TILE TO BE INSTALLED IN STACKED PLANK PATTERN W/ FULL TILES AS SHOWN. REFER TO A121 FOR MORE INFORMATION.
- 5.11 FLOOR DRAIN / FLOOR SINK. SEE DETAIL 1/A520 AND PLUMBING DRAWINGS FOR FURTHER INFORMATION.
- 5.13 NO TILE AT MOP SINK. SEE EQUIPMENT AND PLUMBING SHEETS FOR FURTHER INFORMATION.
- 5.23 ELECTRICAL PANELS. REFERENCE ELECTRICAL DRAWINGS FOR MORE DETAILS.

Bakery-Cafe:

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SYSTEM: G4 (ARIA)

Project Team:

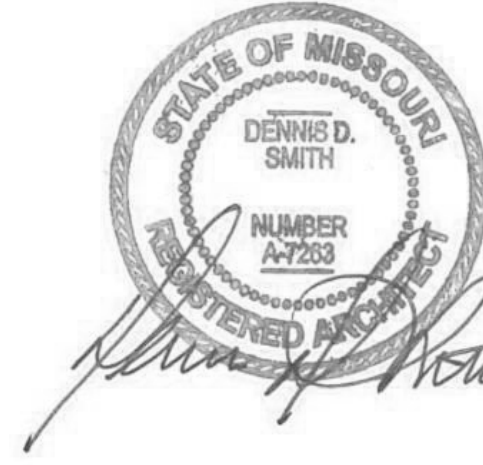


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PROTOTYPE - NEW CONSTRUCTION - SHELL



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No.	Description	Date
1	PERMIT SET - T1	7/18/2022

FLOOR FINISH PLAN

Project Number:

Sheet Number:

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Drawn By:

EG

Issue Date:

07/05/2022

DPM:

DM:

CPM:

DPM

DM

CPM

A121



- A. G. C. SHALL CONFIRM ALL CEILING HEIGHTS. NOTIFY OWNER/ARCHITECT IF SPECIFIED HEIGHTS CANNOT BE ACHIEVED.
- B. SEE ELECTRICAL DRAWINGS FOR POWER & CIRCUIT TRUCK SPECIFICATIONS AS INDICATED ON FIXTURE SCHEDULE ONE 20 AMP CIRCUIT REQUIRED FOR EACH 2'x2' SECTION OF TRACK. LENGTH OF TRACK AS INDICATED BY (X) ON PLAN.
- D. ALL FIXTURES TO BE CENTERED IN 2X2 CEILING TILE (U.N.O.).
- E. ALL FIXTURES TO BE PROVIDED BY, RECEIVED, STORED & INSTALLED BY ELECTRICAL CONTRACTOR.
- F. (6) WEEK LEAD TIME ON THE ACOUSTICAL CEILING TILES & CEILING GRID.
- G. ALL FIXTURES TO BE OBTAINED THROUGH NATIONAL ACCOUNT FROM APPROVED PANERA, LCL VENDOR.
- H. SEE FINISH SCHEDULE FOR ACOUSTICAL CEILING TILE SPECIFICATIONS (ACT).
- I. ELECTRICAL CONTRACTOR SHALL SUPPLY 10% ADDITIONAL SPARE, OF ALL LAMP TYPES, TO BE LEFT AT JOB SITE AT END OF JOB.
- J. MECHANICAL SYSTEM DIFFUSERS NOT TO SHOW THIS SHEET & SHALL COORDINATE WITH MECHANICAL CONTRACTORS TO CONSTRUCTION. SEE MECHANICAL SHEETS FOR LOCATIONS.
- K. G. C. TO SUPPLY (1) UNOPENED CASE OF EACH TYPE OF CEILING TILE USED.
- L. WHERE APPLICABLE, PENDANTS SHALL BE CENTERED OVER TABLES.
- M. G. C. TO APPLICABLE, PANERA VENDOR TO EXTEND SPEAKER SYSTEM INTO EXPANSION AREA, CONNECT INTO EXISTING SYSTEM.
- N. **MAIN DINING AREA TO BE EXPOSED STRUCTURE TO BE PAINTED P165. ALL EXPOSED DUCTWORK TO BE PAINTED TO MATCH EXPOSED STRUCTURE.**
- O. **ALL LIGHTING CONDUIT TO BE RIGID, PAINTED TO MATCH EXPOSED STRUCTURE.**
- P. G. C. TO PLACE BOTTOM OF TRACK AT TRACK LIGHTING AT 11'-0" A.F.F. TYPICAL AT EXPOSED CEILING TO DECK.

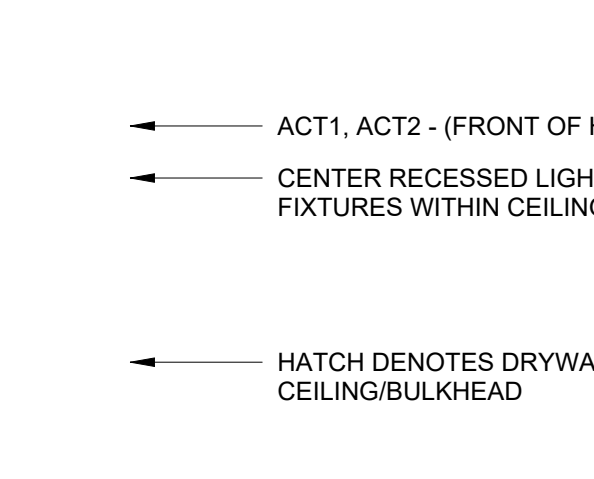
## KEYED NOTES

- 2.02 ARCHITECTURAL BULKHEAD/SOFFIT - SEE INTERIOR ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION. REFLECTED CEILING PLAN
- 2.08 G.C. SHALL SUPPLY AND INSTALL STAINLESS STEEL CLOSURE PANELS AROUND PROOFER FROM TOP OF EQUIPMENT TO 6" ABOVE CEILING. PROVIDE ACCESS PANEL AS REQUIRED.
- 2.09 REMOVABLE STAINLESS STEEL ACCESS PANEL (16GA) FROM TOP OF EQUIPMENT TO CEILING. SEE DETAIL & ELEVATIONS.

## TYPICAL FIXTURE MOUNTING HEIGHTS:

- PENDANTS AT FIXED BOOTH TABLES & GATHERING TABLES: 30" ABOVE TABLE TOP TO BOTTOM OF FIXTURE.
- PENDANTS AT MOVABLE TABLES & TABLES AT BANQUETTES: 6'-8" A.F.F. TO BOTTOM OF FIXTURE.
- SPECIALTY PENDANT INSTALLATIONS AT HIGH CEILINGS: REFER TO PLANS/ELEVATIONS FOR FURTHER INFORMATION
- LIGHT TRACK: 11'-0" A.F.F. TO BOTTOM OF TRACK
- SPEAKERS: 11'-0" A.F.F. TO BOTTOM OF SPEAKER
- WALL SCONCES: REFER TO PLANS/ELEVATIONS FOR FURTHER INFORMATION

## RCP LEGEND

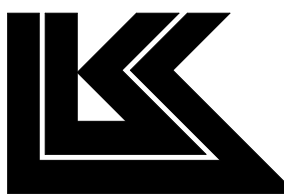
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- Diagram illustrating the layout of a stage or performance space, showing the positions of various elements relative to the stage front (ACT 1, ACT 2):
- ACT 3 - (BACK OF HOUSE)
  - ACT1, ACT2 - (FRONT OF HOUSE)
  - CENTER RECESSED LIGHT FIXTURES WITHIN CEILING TILE
  - HATCH DENOTES DRYWALL CEILING/BULKHEAD
  - DENOTES TRANSITION BETWEEN ACT1 & ACT2

**Bakery-Cafe:**

**22169**

**SYSTEM: G4 (ARIA)**

Project Team

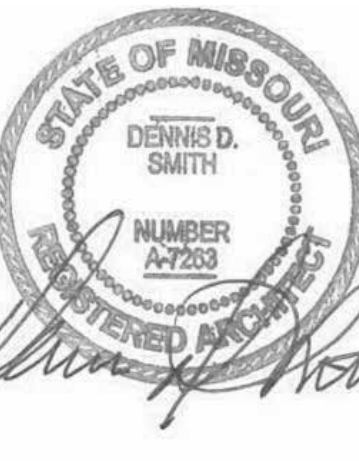


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PROTOTYPE - NEW CONSTRUCTION - SHELL

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## REFLECTED CEILING PLAN

Project Number

22169

Drawn By

Author

Issue Da

07/05/2

DPM:

DPM

Sheet Number

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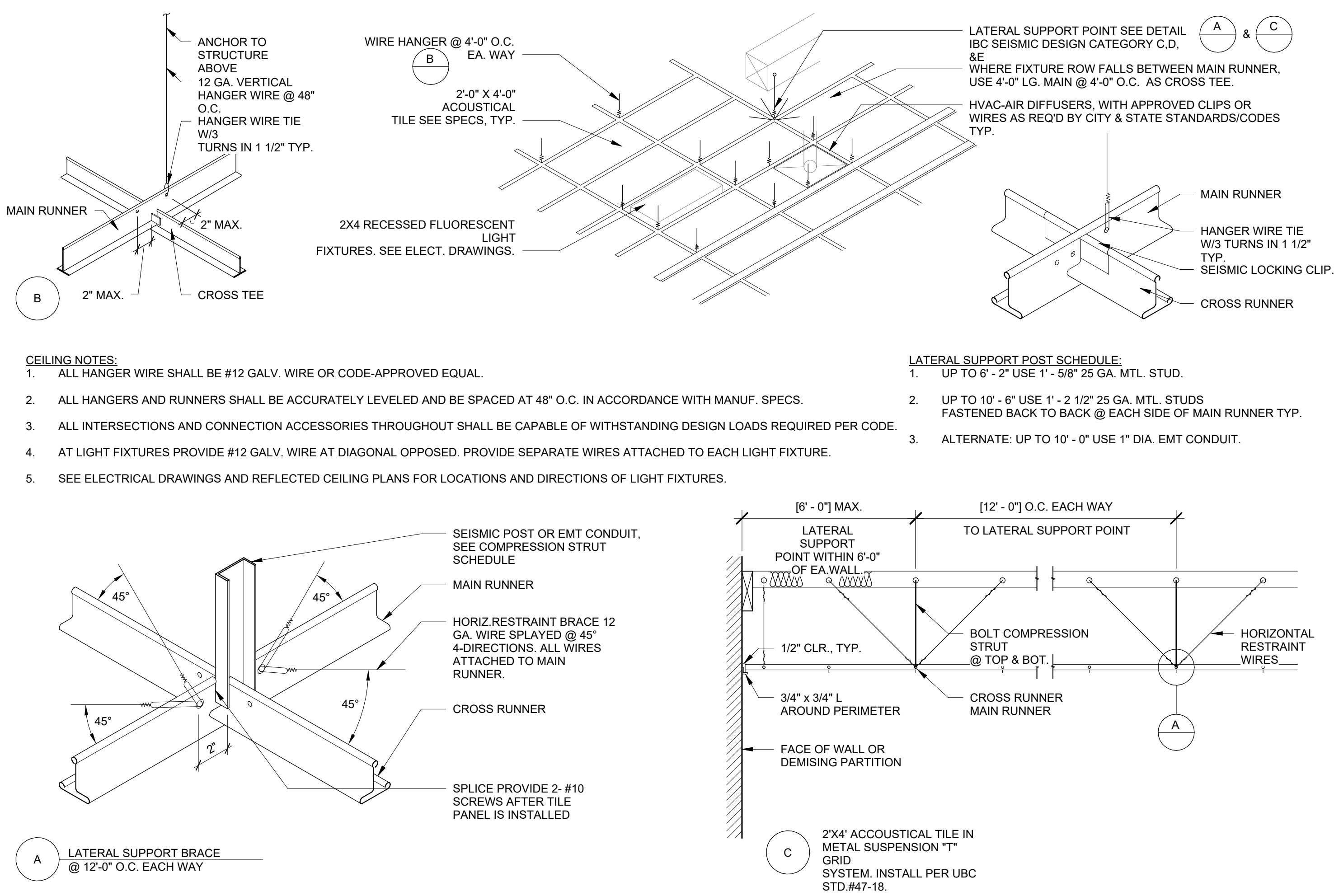
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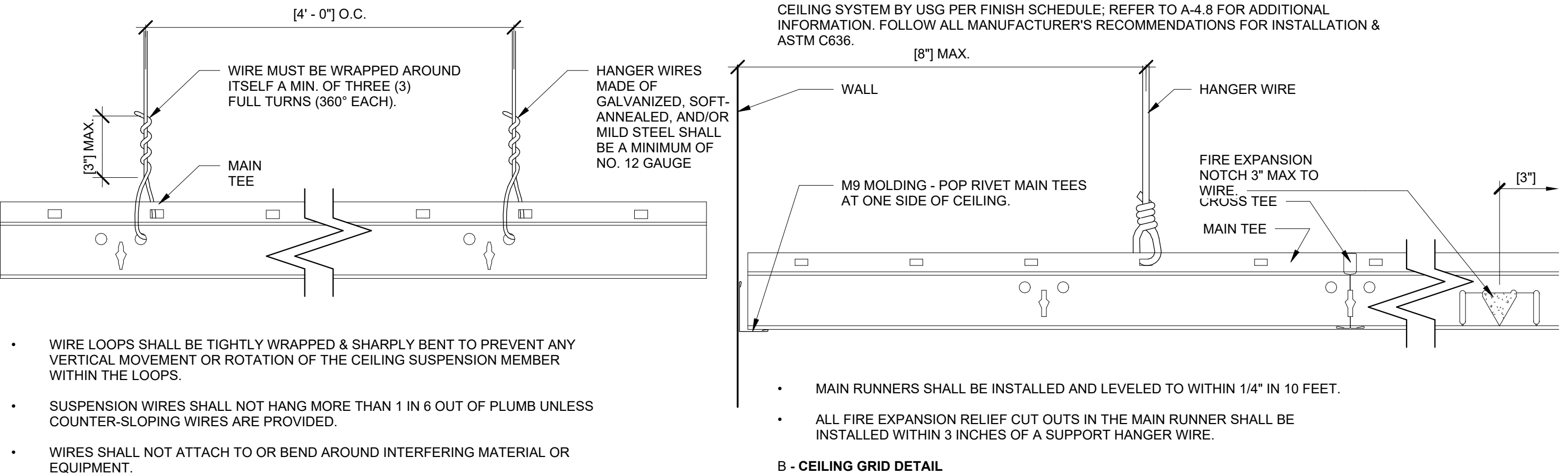


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## 22 | SUSPENDED CEILING DETAILS (SEISMIC)

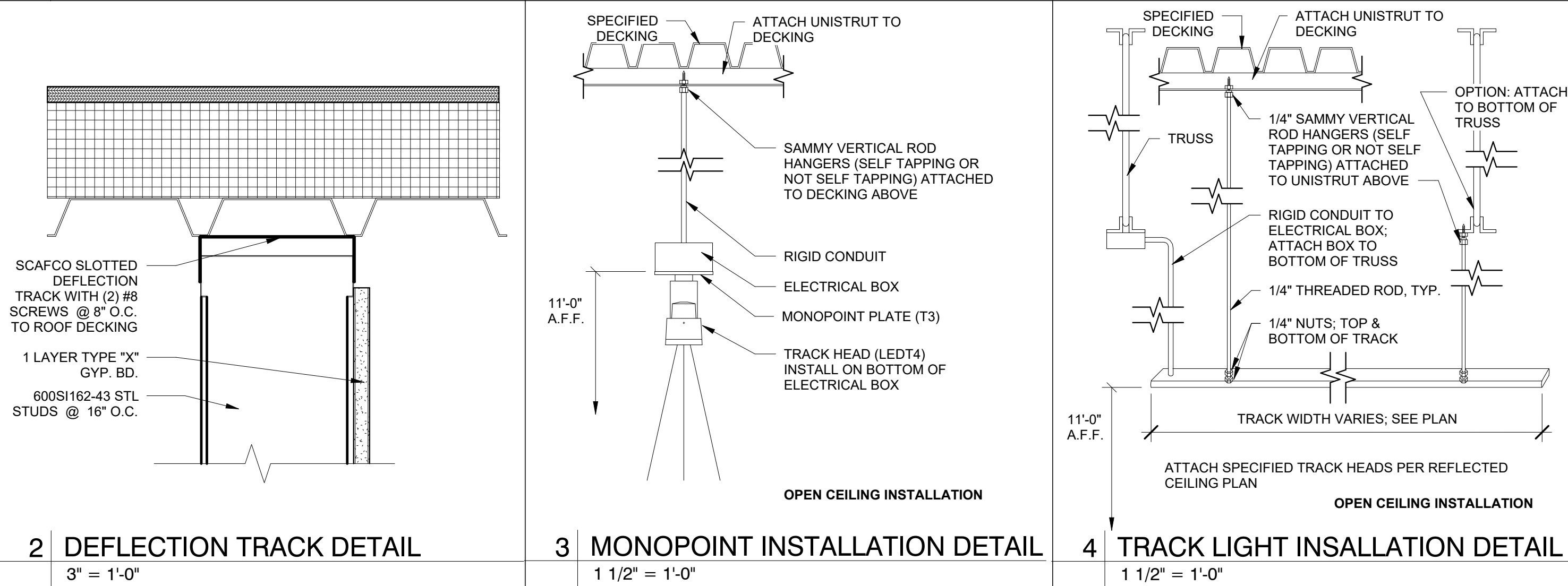
1/4" = 1'-0"



### A - WIRE TIE AND TIE SPACING DETAIL

## 1 | SUSPENDED CEILING ATTACHMENT DETAILS

6" = 1'-0"



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## LIGHTING SCHEDULE - TI

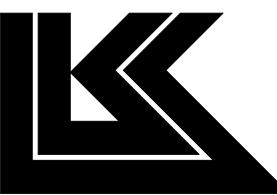
ID TAG	QTY.	DESCRIPTION	MANUFACTURER	SUPPLIER	MODEL #	VOLTAGE	LAMP TYPE	FIXTURE LOCATION	MOUNTING TYPE	NOTES
C	31	RECESSED LIGHT	REGGIANI		A.G512B/HW.10		9W 17" 2700K 90+ CRI 96+ CRI VIBRANT			COLOR: WHITE/WHITE INTERIOR
E2	6									
EXT15	3	"SCOOP" LED WALL MOUNT	WAC LIGHTING	STANDARD ELECTRIC	WS-W20506-XX	120	LED	EXTERIOR	WALL	"XX" REFERS TO COLOR OF FIXTURE: AL-ALUM, BK-BLACK, BZ-BRONZE, GH-GRAPHITE, WH-WHITE. FIXTURE CAN BE MOUNTED AS DOWNLIGHT OR UPLIGHT
F	12	DOWNLIGHT	SOLAIS		YR3NC/D/YM20/40C/27K/1000/WHL/WH		2900 LM 96+ CRI VIBRANT			
J	5	5" X 47" ENCLOSED, LOW TEMP FIXTURE	KASON		1810LC4000 LED	120	INTREGAL LED	COOLER/FREEZER	SURFACE	FROSTED DIFFUSER; GRAY METAL HOUSING WITH WHITE STEEL LED TRAY; FIXTURE PROVIDED BY COOLER VENDOR; WET LISTED
L	19	2X4 3-LAMP RECESSED ACRYLIC FLUORECENT TROFFER	RAB		EZPAN2X4 LPA	120	(3) 14T8/48-3500 IF 10/1 DIM	BOH - KITCHEN	RECESSED	COLOR: WHITE
LE001.A1	15	LED EMERGENCY LIGHT	COOPER LIGHTING	STANDARD ELECTRIC	APEL LED	120V	(2) LED	-	WALL	2-HEAD EMERGENCY BATTERY UNIT
LE600.A1	3	LINEAR LED EGRESS WITH BOTH EM AND NL FUNCTION W/ BATTERY BACK-UP	MULE LIGHTING, INC	STANDARD ELECTRIC	EUE-BB-10-A-W-SD	120V	LED	EMERGENCY EGRESS	SURFACE	REQUIRES STANDARD MASONRY SIZED BOX (3.75X3.5X7.375) (BY CONTRACTOR) FOR REMOTE POWER SUPPLY; REFER TO SPECIFICATION SHEET
LEDRD12 B	2	6" LED ULTRA-THIN RECESSED DOWNLIGHT	LITELINE CORPORATION		SLMPRO6-27K-WH		15W LED			
LEDRD12 B EM	2	6" LED ULTRA-THIN RECESSED DOWNLIGHT, EMERGENCY BACKUP	LITELINE CORPORATION		SLMPRO6-27K-WH		15W LED			
LS004.A1	4	WALL SCONCE	SCHOOLHOUSE	LIGHTING SUPPLIER	112644-BK; ISAAC SHORT SCONCE	120	(1) 5W LED G16; TCP LED5E26G1627K, CLEAR	DINING ROOM	WALL	BLACK FINISH; SEE ELEVATIONS FOR MOUNTING HEIGHT
U	4	LINEAR ACCENT	TEMPO		C4X-24DC-C CL-0-2-20-WH		5W/FT LEF			C4X 24AC 2538 0 5 30H WH NARROW BEAM

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

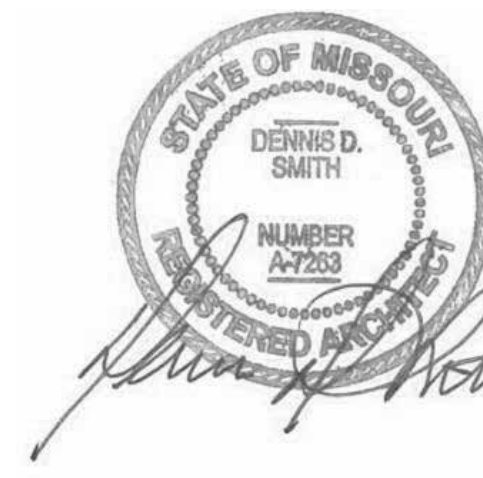


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WICHITA, KS 67203  
T 316.268.0230  
F 316.268.0205

Architecture · Engineering ·  
Planning · Interior Design ·  
Landscape Architecture

Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION - SHELL

**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



Consultant Copyright Placeholder

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

## LIGHTING SCHEDULE, DETAILS, & SECTIONS

Project Number:

Sheet Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DFM:

DM:

CPM:

DPM

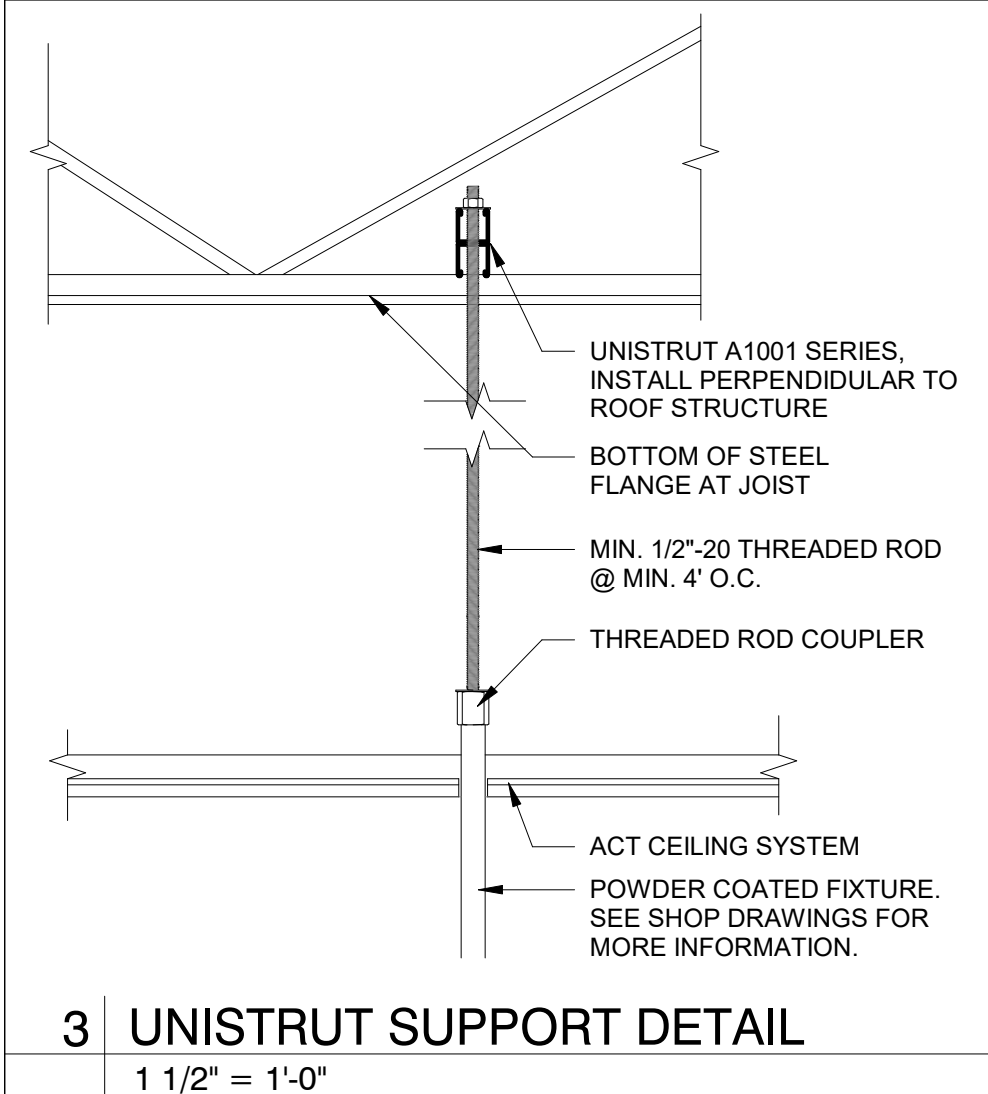
DM

CPM

A134

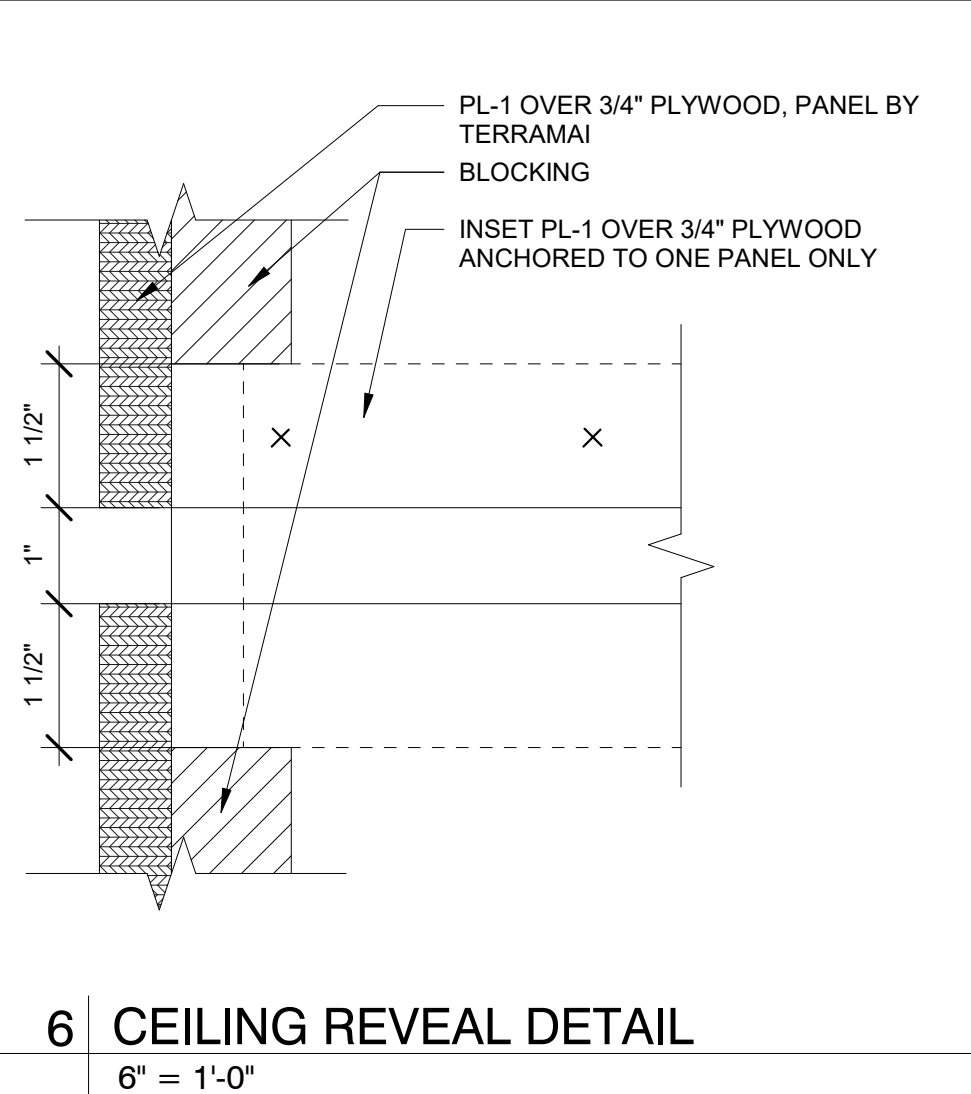
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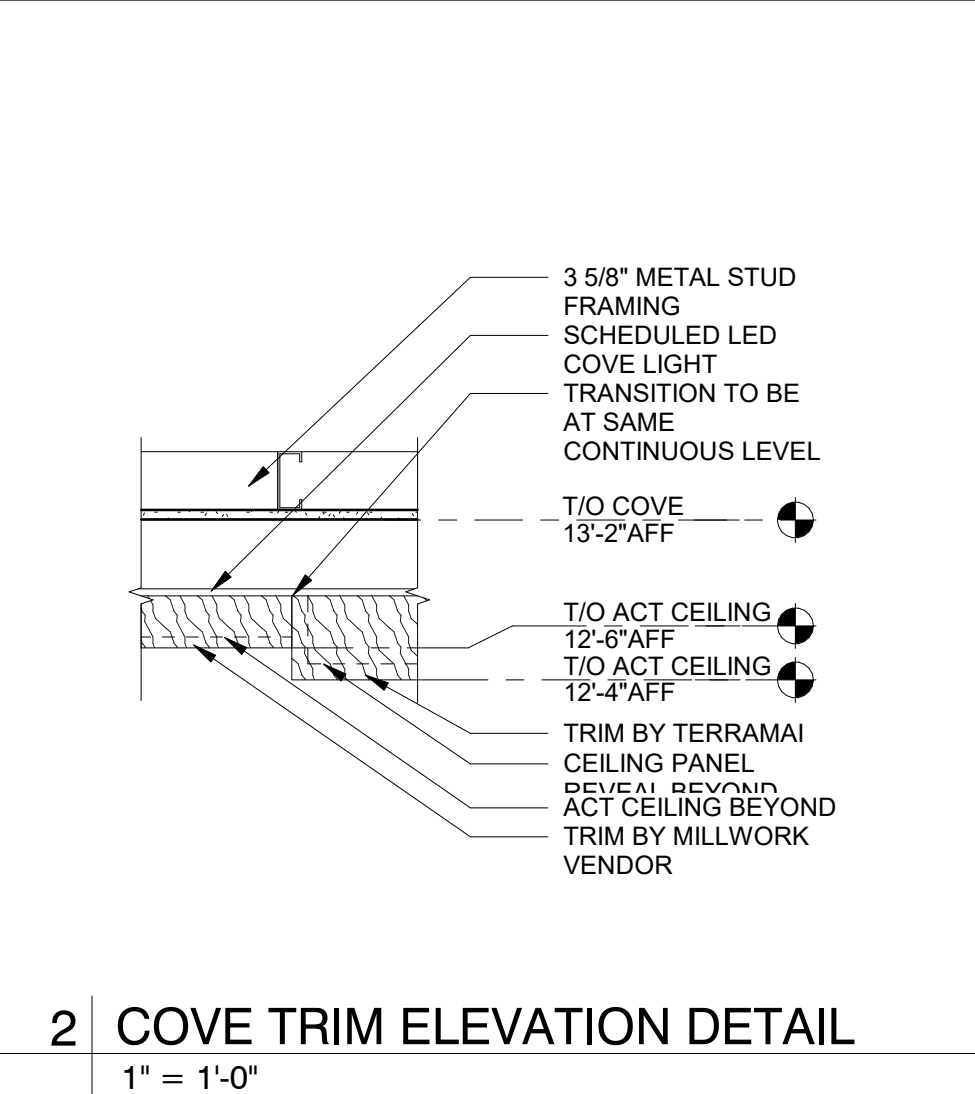
3 UNISTRUT SUPPORT DETAIL

1 1/2" = 1'-0"



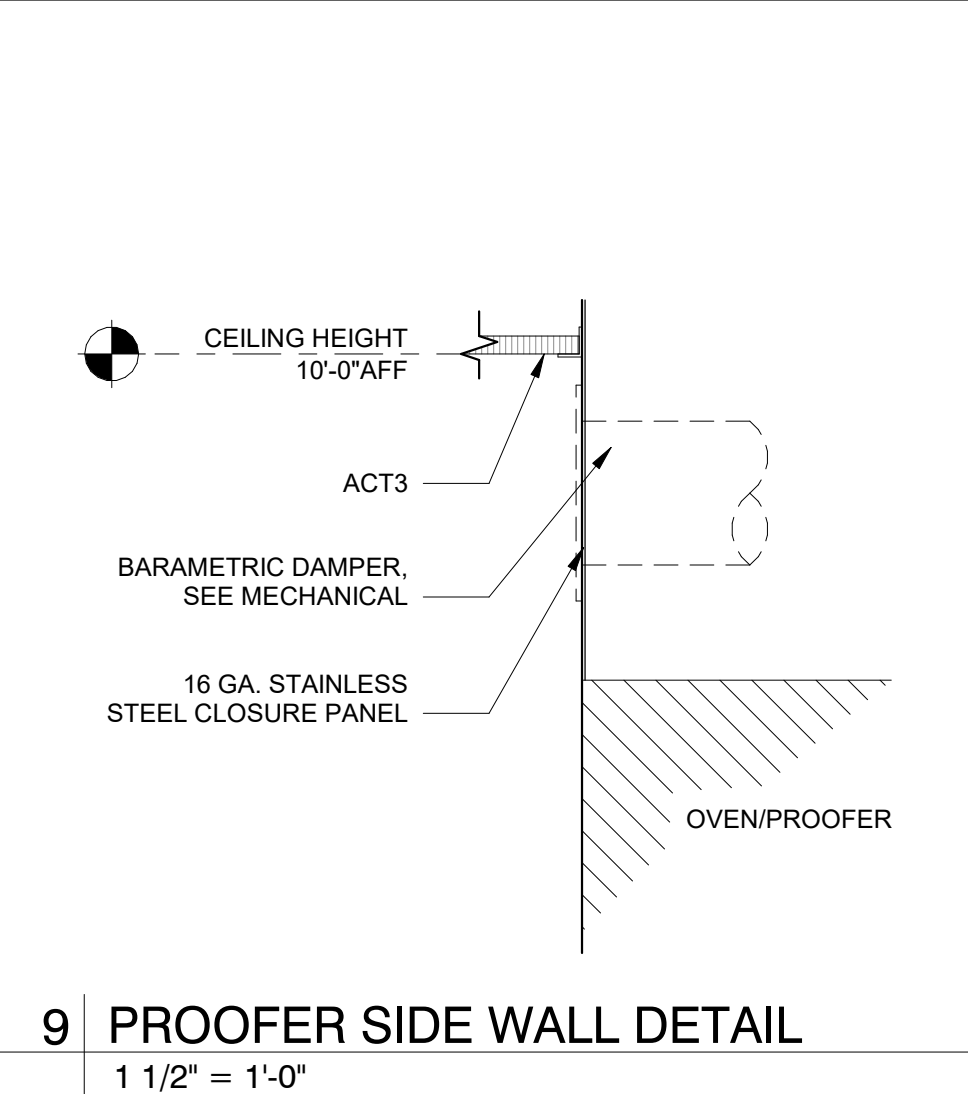
6 CEILING REVEAL DETAIL

6" = 1'-0"



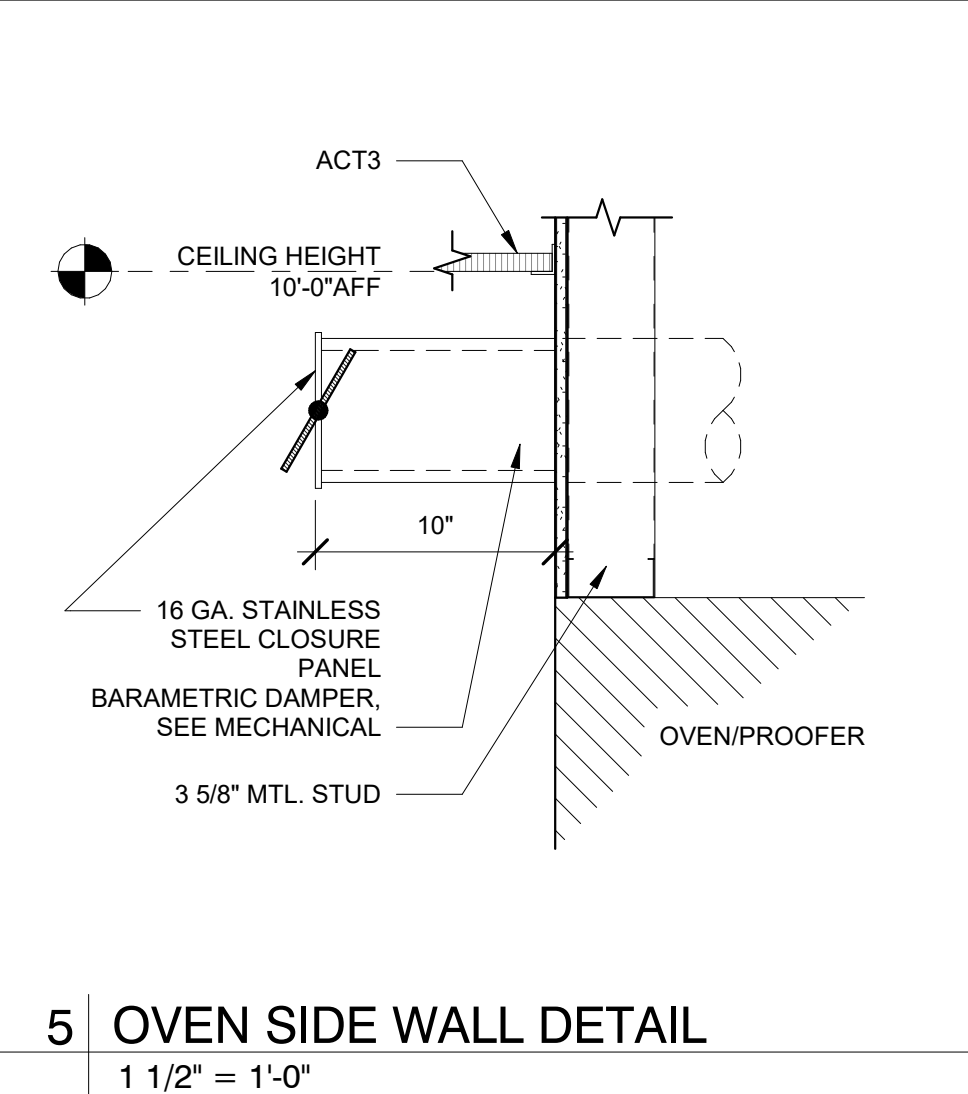
2 COVE TRIM ELEVATION DETAIL

1" = 1'-0"



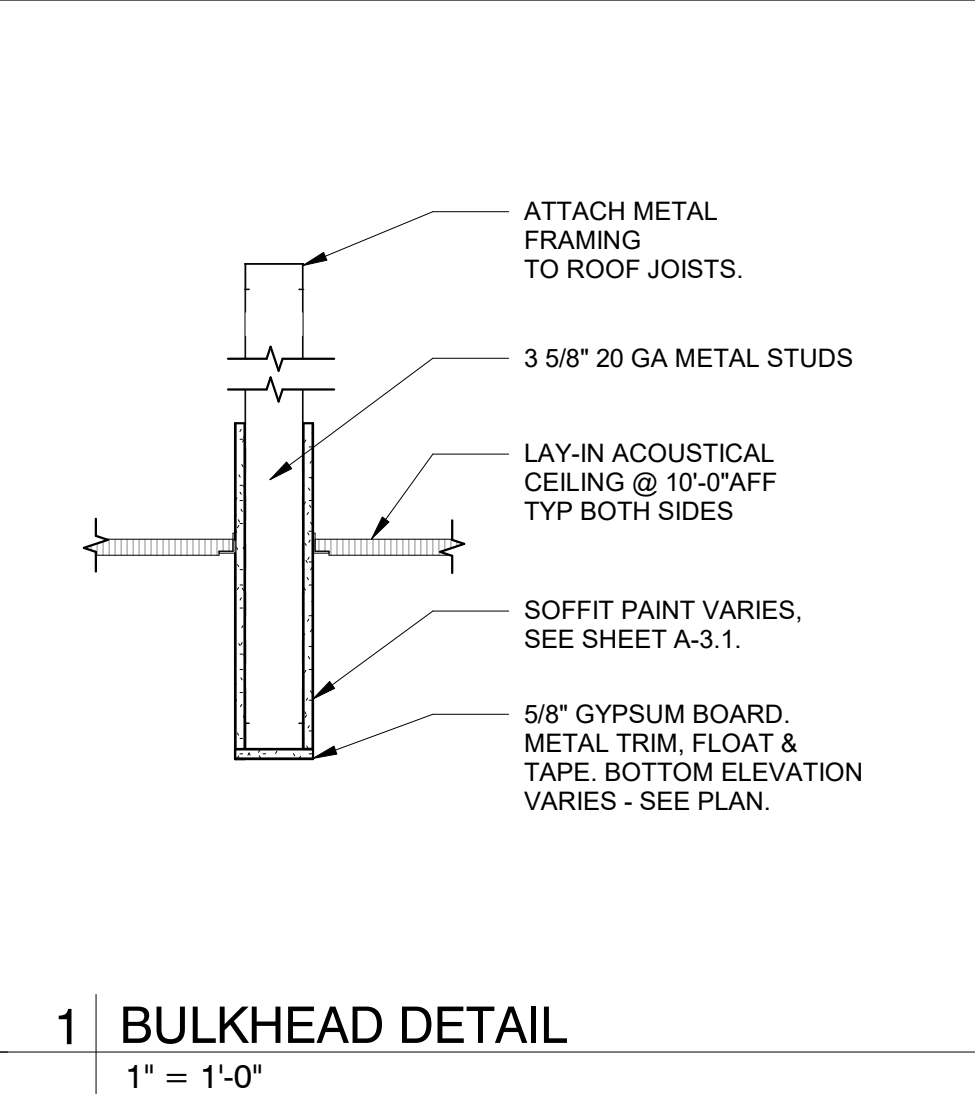
9 PROOFER SIDE WALL DETAIL

1 1/2" = 1'-0"



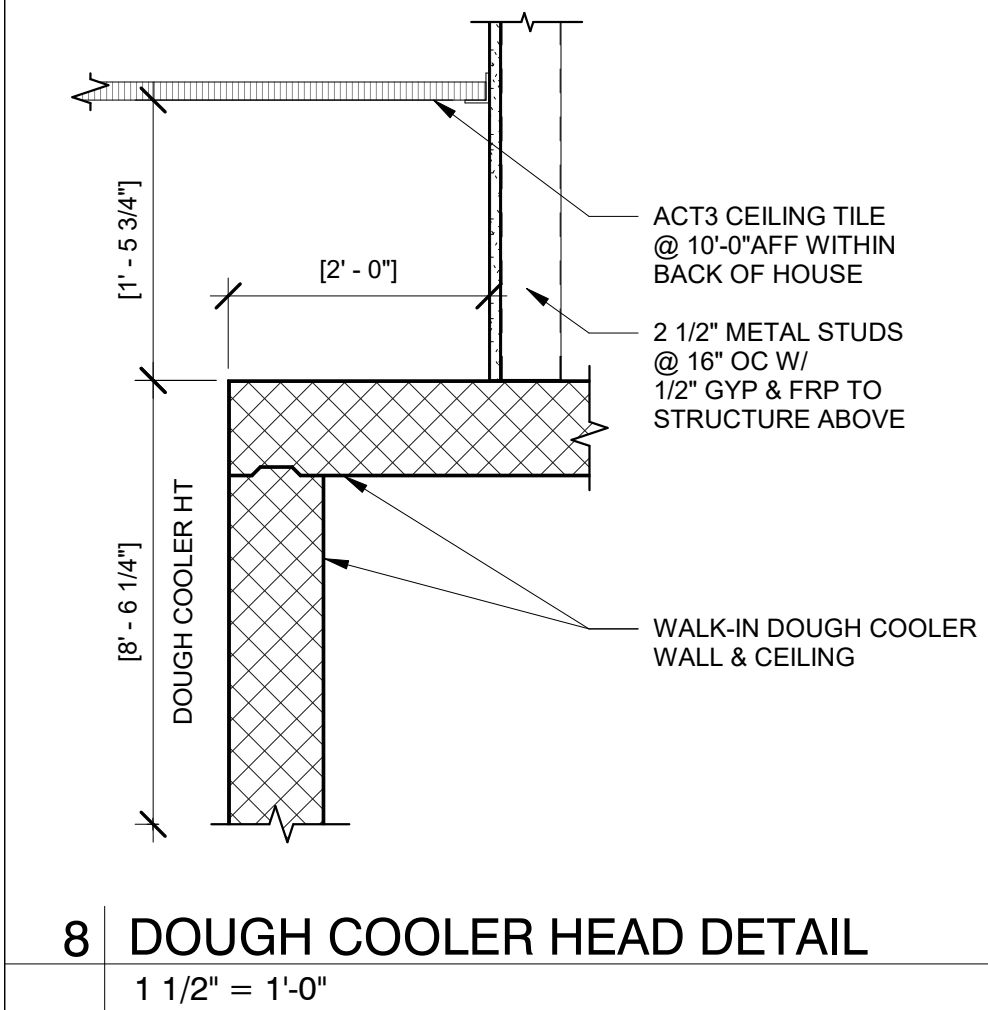
5 OVEN SIDE WALL DETAIL

1 1/2" = 1'-0"



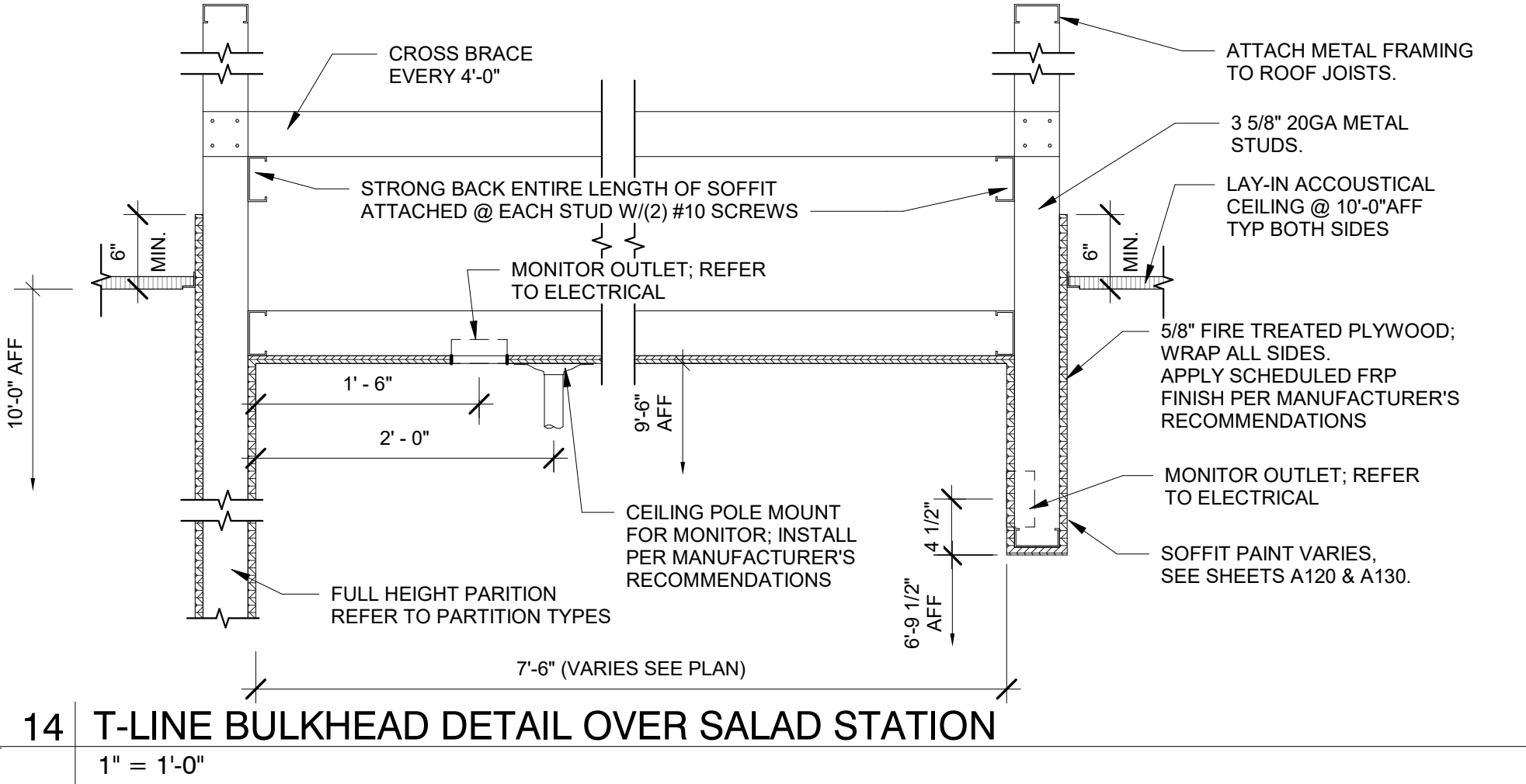
1 BULKHEAD DETAIL

1" = 1'-0"



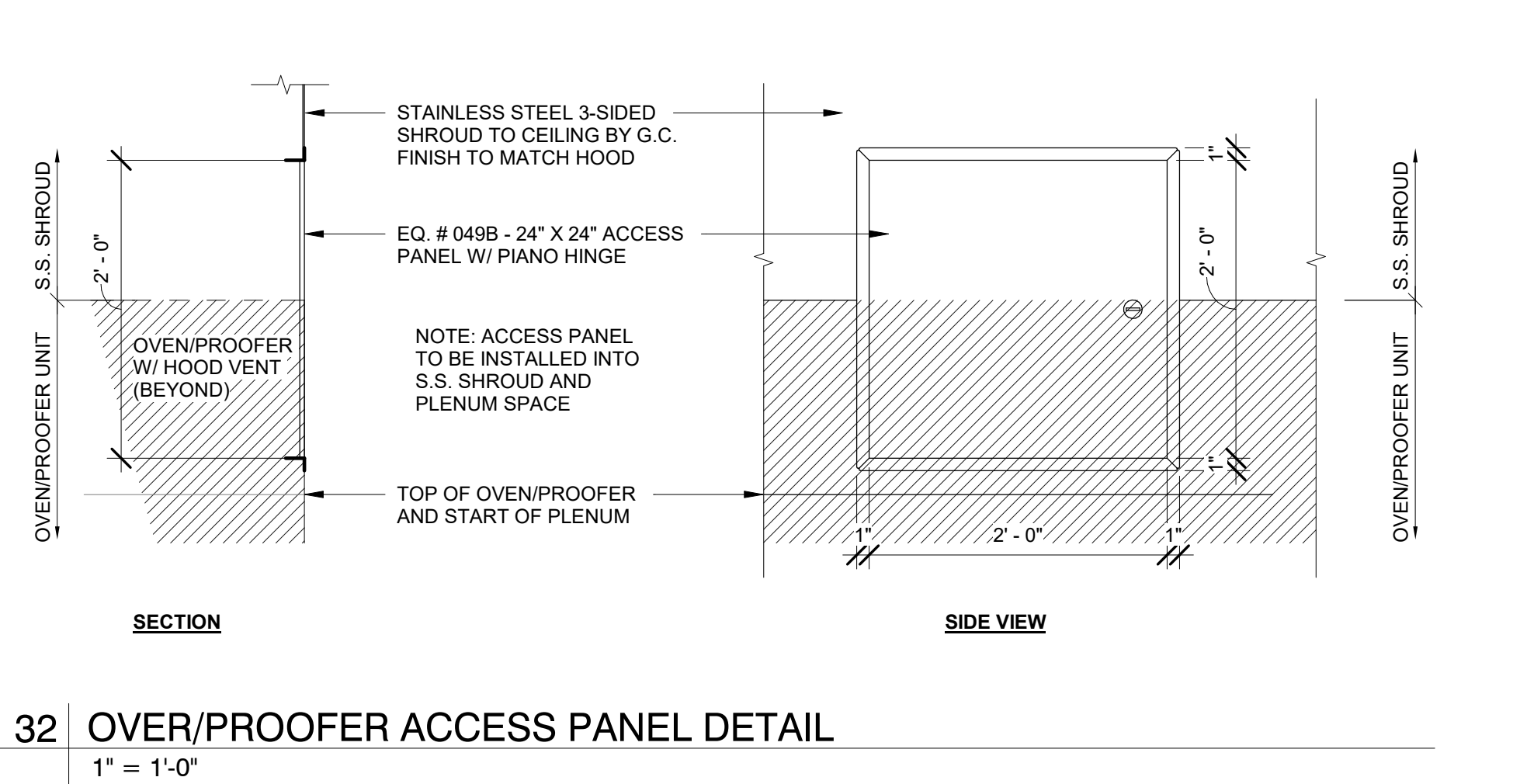
8 DOUGH COOLER HEAD DETAIL

1 1/2" = 1'-0"



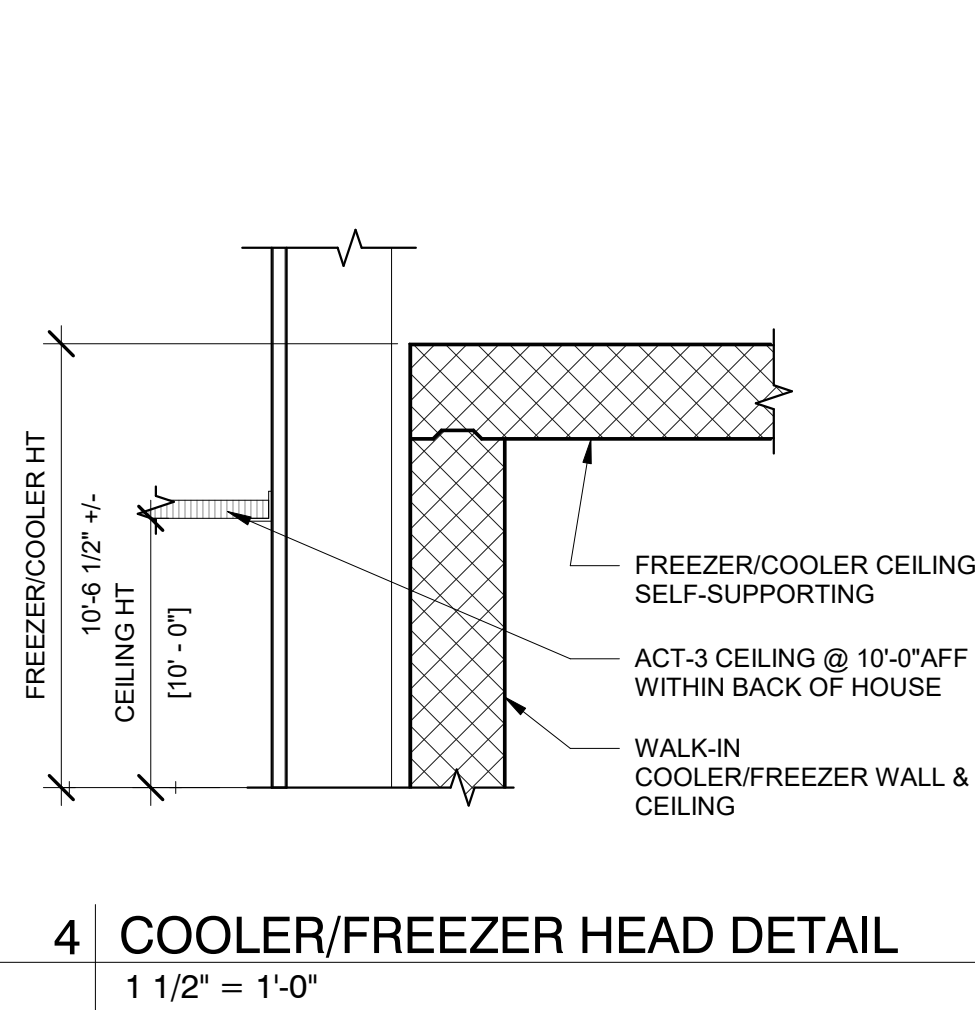
14 T-LINE BULKHEAD DETAIL OVER SALAD STATION

1" = 1'-0"



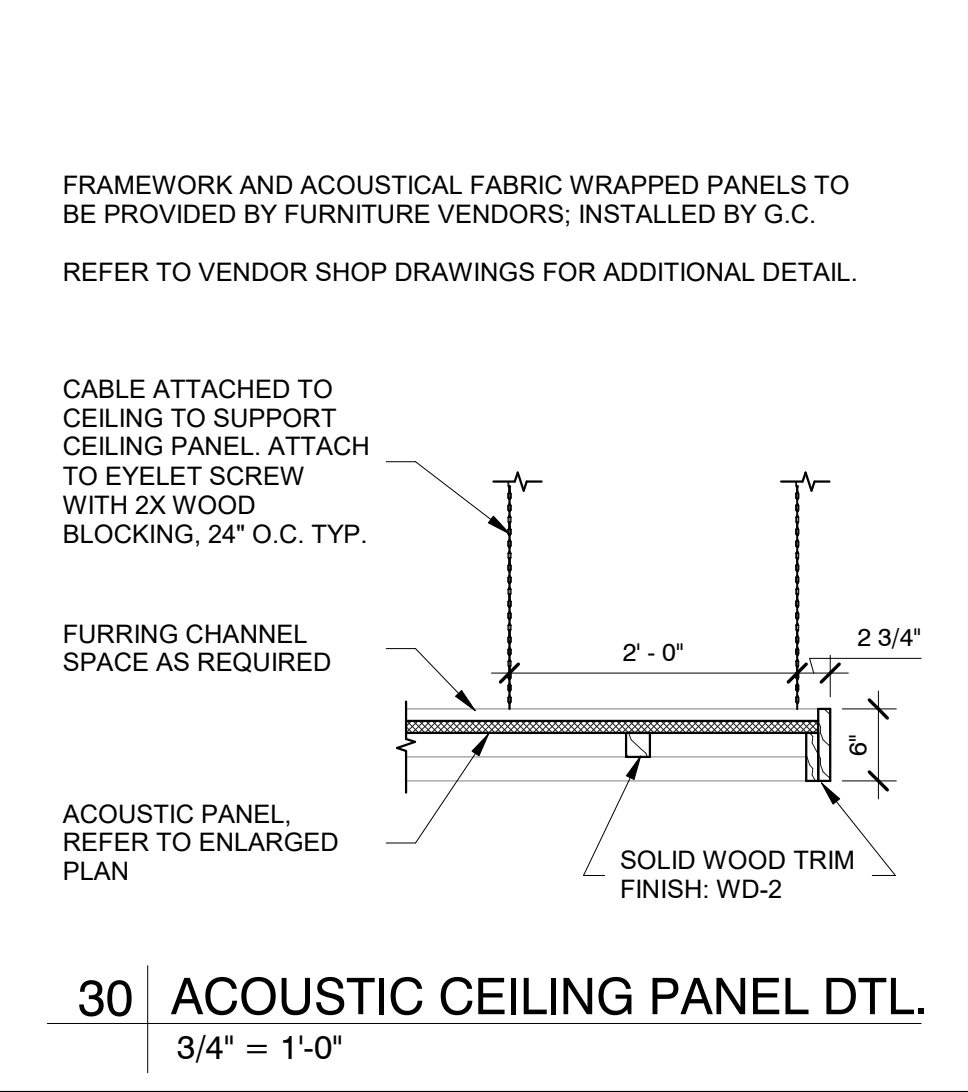
32 OVER/PROOFER ACCESS PANEL DETAIL

1" = 1'-0"



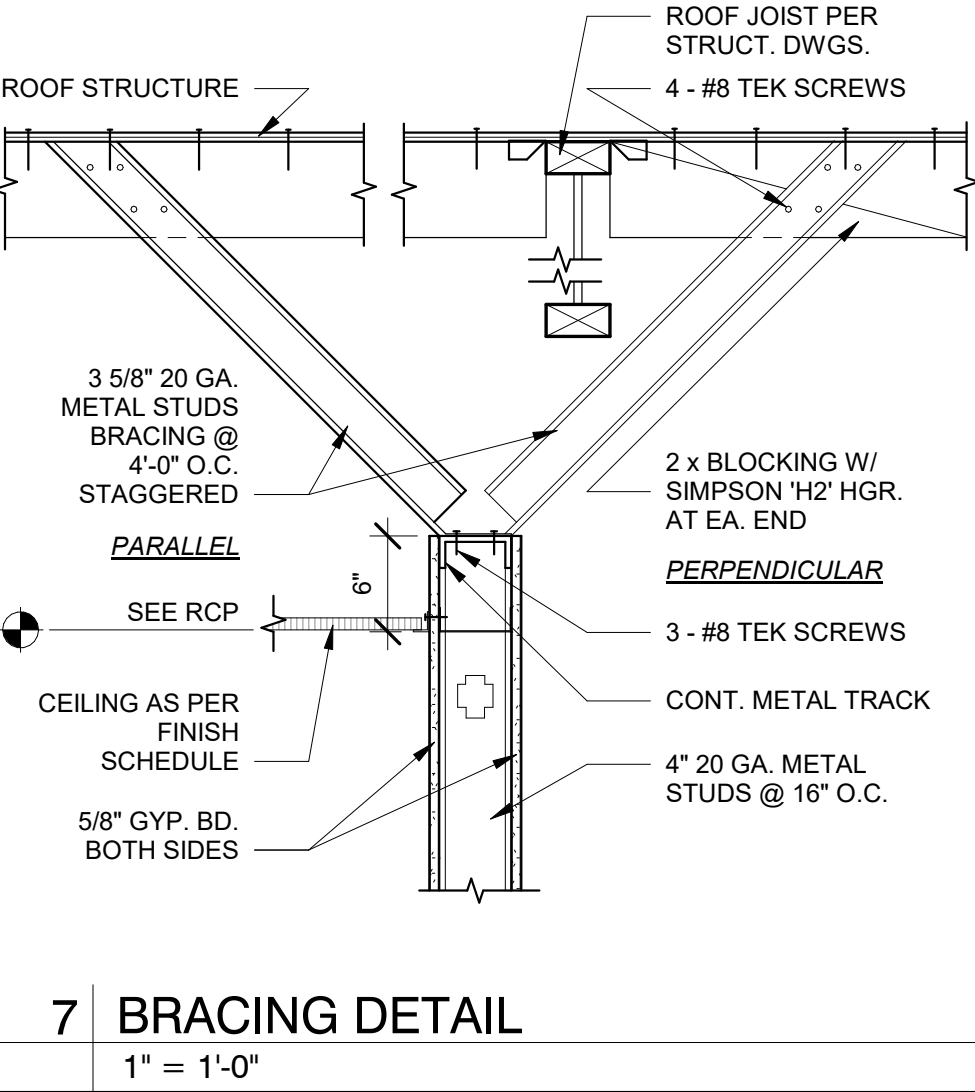
4 COOLER/FREEZER HEAD DETAIL

1 1/2" = 1'-0"



30 ACOUSTIC CEILING PANEL DTL.

3/4" = 1'-0"



7 BRACING DETAIL

1" = 1'-0"

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

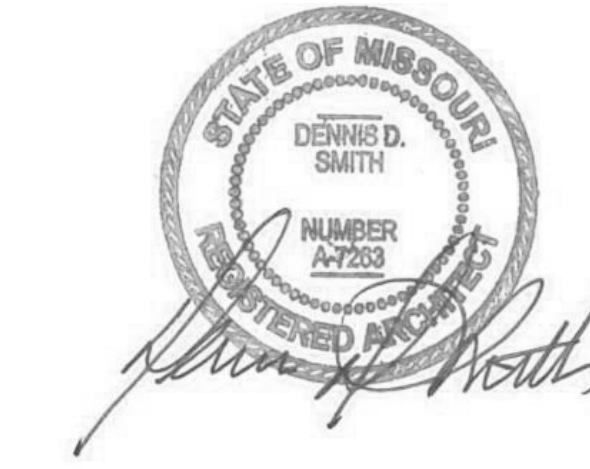


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1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



Consultant Copyright Placeholder

No.	Description	Date
1	PERMIT SET - T1	7/18/2022

CEILING DETAILS

Project Number:

Sheet Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DPM:

DM:

CPM:

DPM

DM

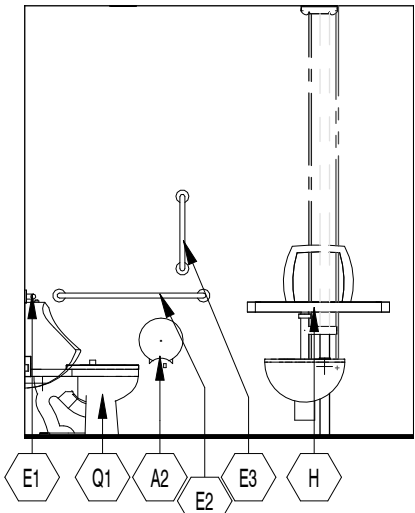
CPM

A135



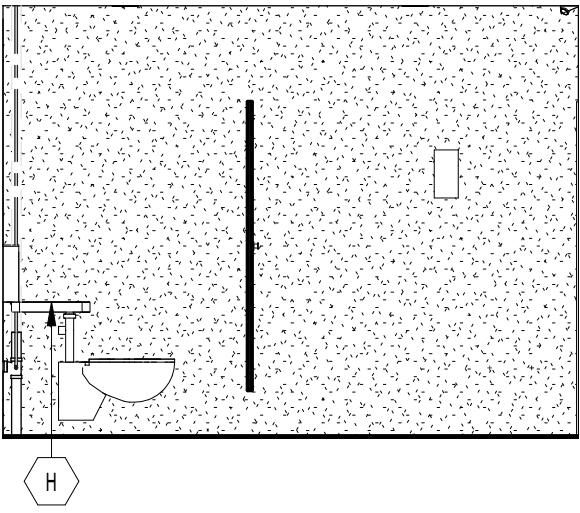
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PR 2021.03.11



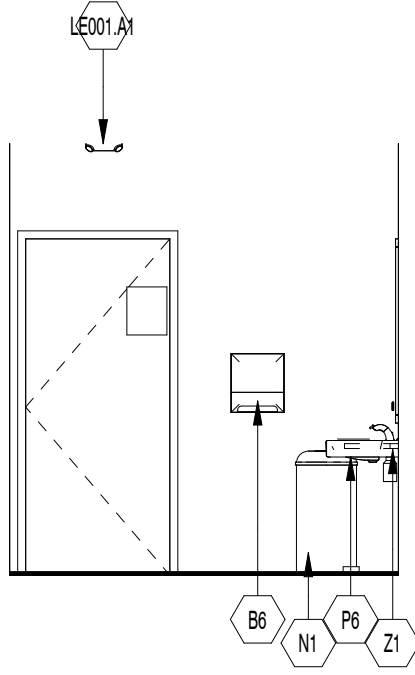
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1/4" = 1'-0"



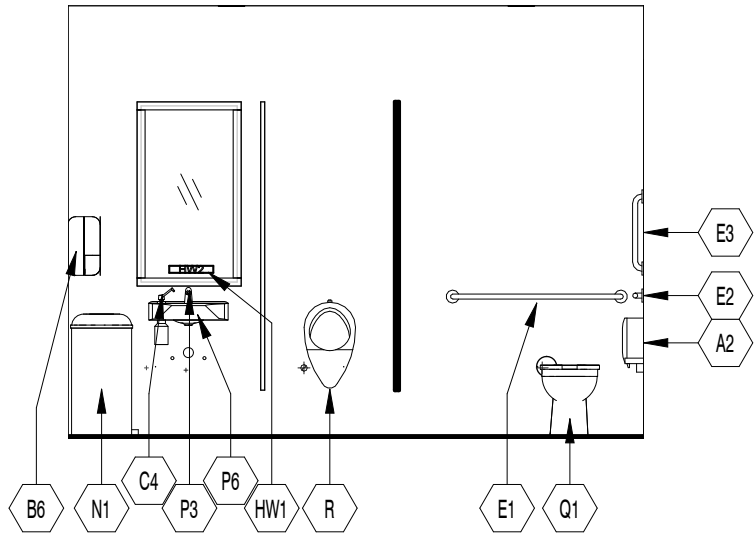
2 MENS ELEVATION 2

1/4" = 1'-0"



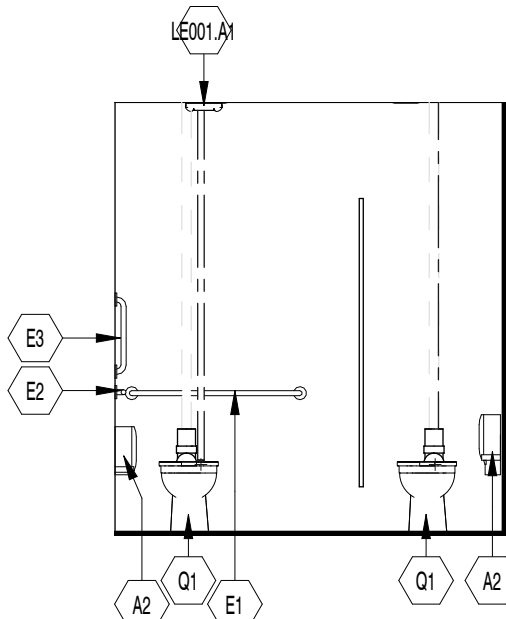
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1/4" = 1'-0"



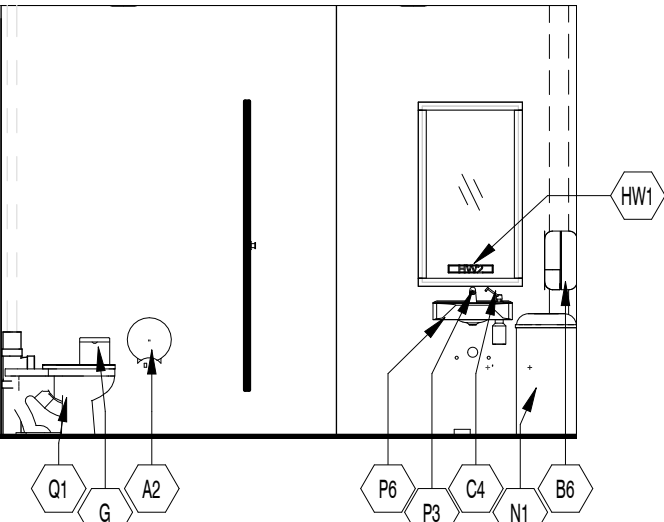
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1/4" = 1'-0"



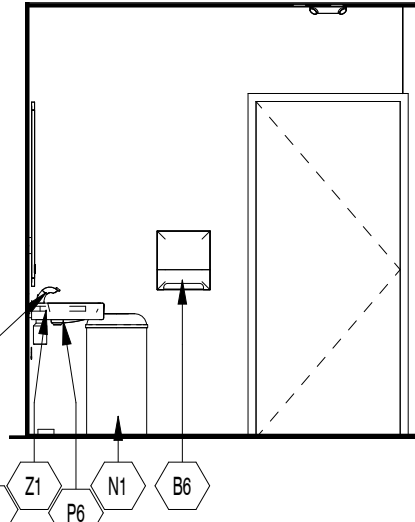
5 WOMENS ELEVATION 1

1/4" = 1'-0"



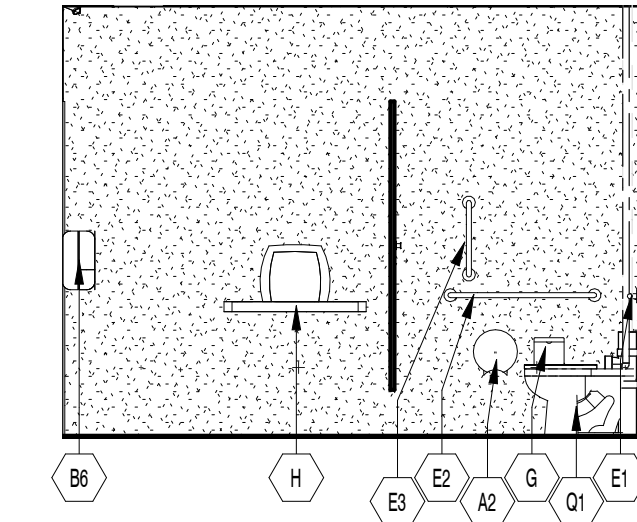
6 WOMENS ELEVATION 2

1/4" = 1'-0"



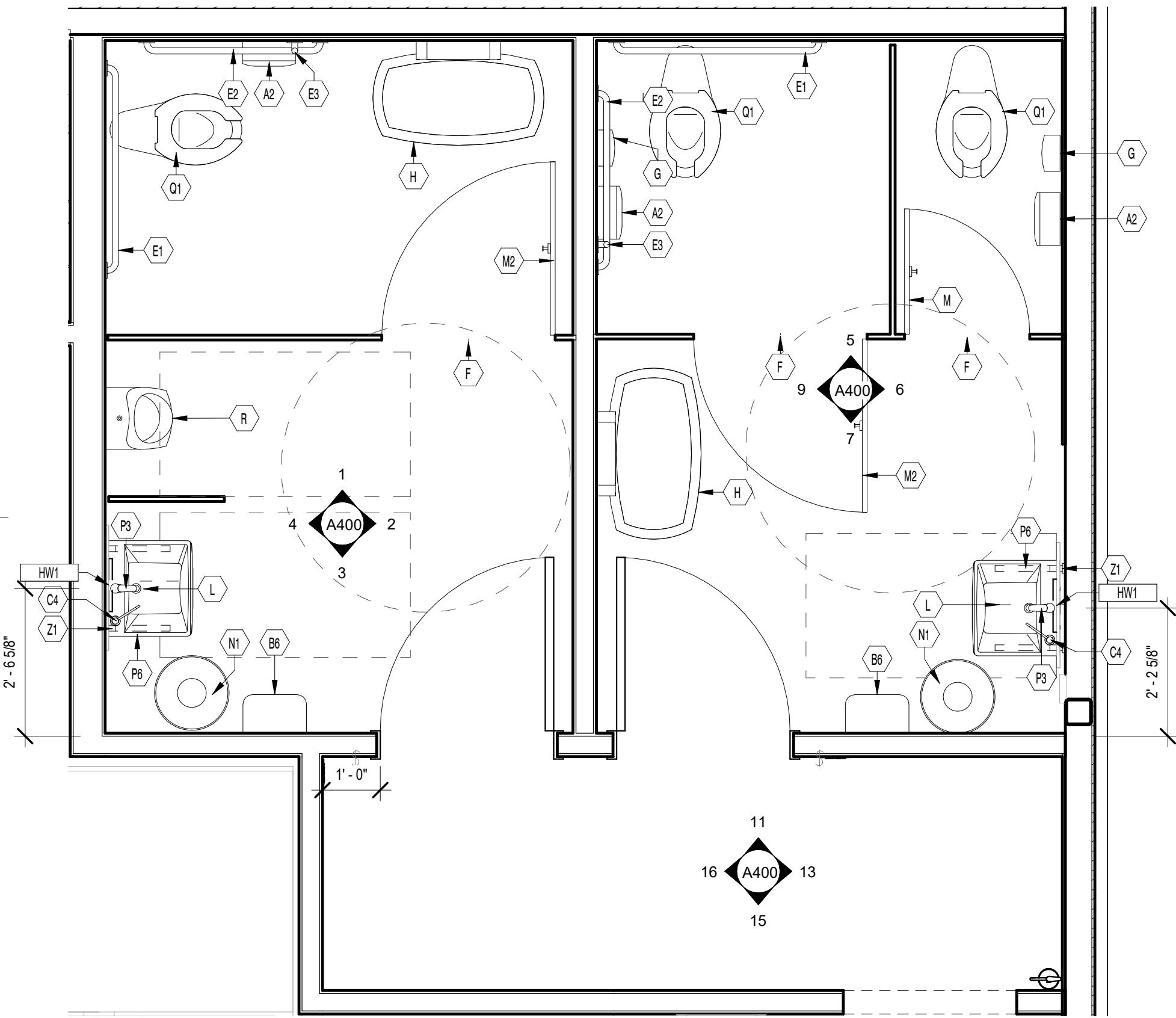
7 WOMENS ELEVATION 3

1/4" = 1'-0"



9 WOMENS ELEVATION 4

1/4" = 1'-0"



10 ENLARGED RESTROOM PLAN

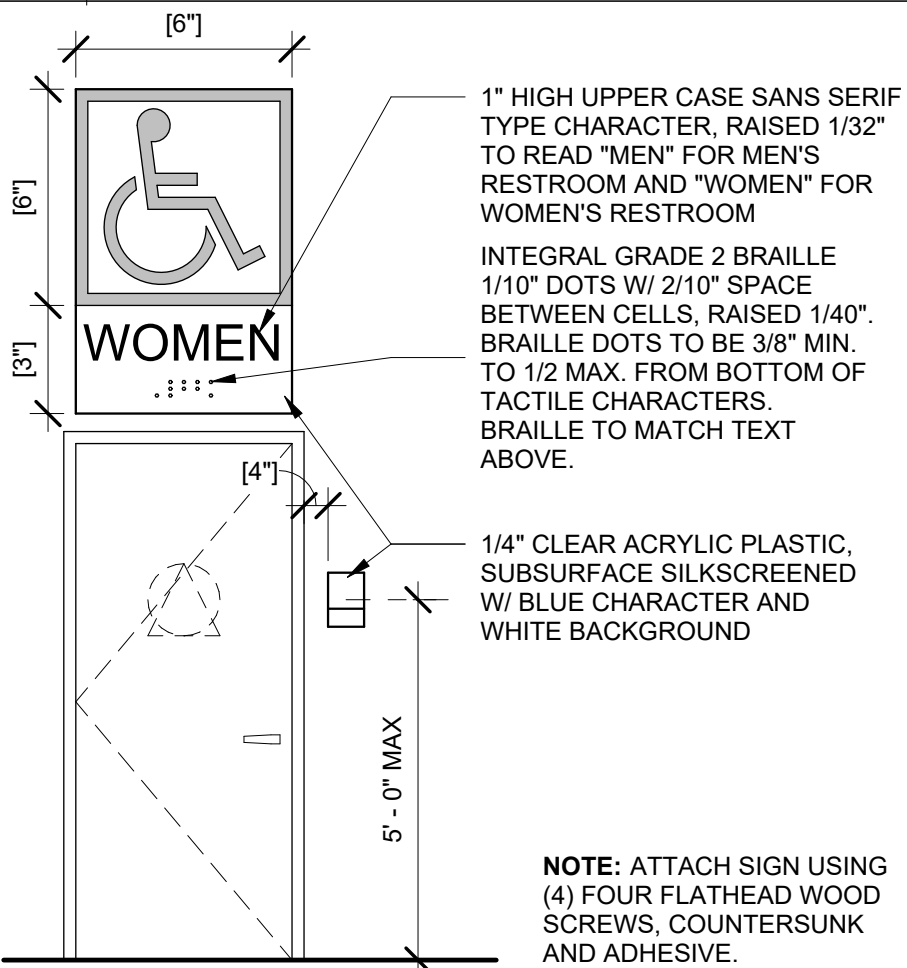
1/2" = 1'-0"

## RESTROOM SCHEDULE

ID TAG	QTY	DESCRIPTION	MODEL	NOTES	MOUNTING HEIGHT
A2	3	SURFACE- MOUNTED TOILET PAPER DISPENSER	TORK 66TR		32" AFF TO TOP, C.L. 7'-9" IN FRONT OF W.C.
B6	2	TORK ELEVATION MATIC HAND TOWEL ROLL DISPENSER WITH INTUITION SENSOR	5511202		45.5"
C4	2	SURFACE-MOUNTED SOAP DISPENSER	BOBRICK B-822		MOUNT IN LAVATORY; SPOUT DECK MOUNTED
E1	2	42" GRAB BAR	BOBRICK B-5806-42		36" TO TOP OF GRIPPING SURFACE
E2	2	36" GRAB BAR	BOBRICK B-5806-36		36" TO TOP OF GRIPPING SURFACE
E3	2	18" GRAB BAR (VERTICAL)	BOBRICK B-5806-18		BOTTOM OF BAR MTD PER ARCHITECT DIRECTION
F	3	COAT HOOK	BOBRICK B-76717		72" AFF TO CENTERLINE OF STD. DOOR; 48" AFF TO TOP EDGE ON ADA DOOR
G	2	SURFACE- MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK B-270	Satin Finish	30" AFF TO TOP
H	2	KOALA DIAPER CHANGING STATION	KB200-00-HORIZONTAL PH# 1.888.733.3456		28.75" AFF TO BOTTOM MOST EDGE
HW1	2	[G4] HAND WASH SIGN (RESTROOM MIRROR)			
L	4	LAVATORY PIPE INSULATION	LAVAGUARD TRUEBRO 100SERIES, GREY		INSTALL OVER HOT/COLD WATER & DRAIN PIPES
M	1	TOILET PARTITION	POWDER COATED STEEL, FLOOR MOUNTED PARTITIONS W/TOP RAIL, COLOR: PANERA PARCHMENT.		FLOOR-MOUNTED, OVERHEAD BRACE
M2	2	TOILET PARTITION - ADA	POWDER COATED STEEL, FLOOR MOUNTED PARTITIONS W/TOP RAIL, COLOR: PANERA PARCHMENT.		FLOOR-MOUNTED, OVERHEAD BRACE
N1	2	WASTE RECEPTACLE	EX-CELL KAISER #NT1531 D-6 WHIT DB	SMALLWARES ITEM; PROVIDED BY PANERA, INSTALLED BY G.C.	FREE STANDING
P3	2	LAVATORY FAUCET	TEL105-D10EM		N/A
P6	2	SOHO LAVATORY (USE WITH Z1 LISTED IN THIS SCHEDULE)	K-2084-R, WHITE		34" AFF TO TOP OF SINK RIM; MIN. 27" CLEAR BELOW SINK; REFER TO INSTALL DETAIL
Q1	3	WATER CLOSET - ADA	AMERICAN STANDARD 3043.001, ALTERNATE TOTO CT 705L		FLOOR- MOUNTED; INSTALL FLUSH VALVE ON OPEN (ACCESS) SIDE
R	1	URINAL	TOTO UT104		17" AFF MAX TO TOP OF FRONT RIM
Z1	2	CONCEALED ARM CARRIER FOR KOHLER K-2084-R	ZURN Z1231-UNIV-80		INSTALL UPRIGHTS INSIDE WALL; REFER TO INSTALL DETAIL

11 CORRIDOR 1

1/4" = 1'-0"

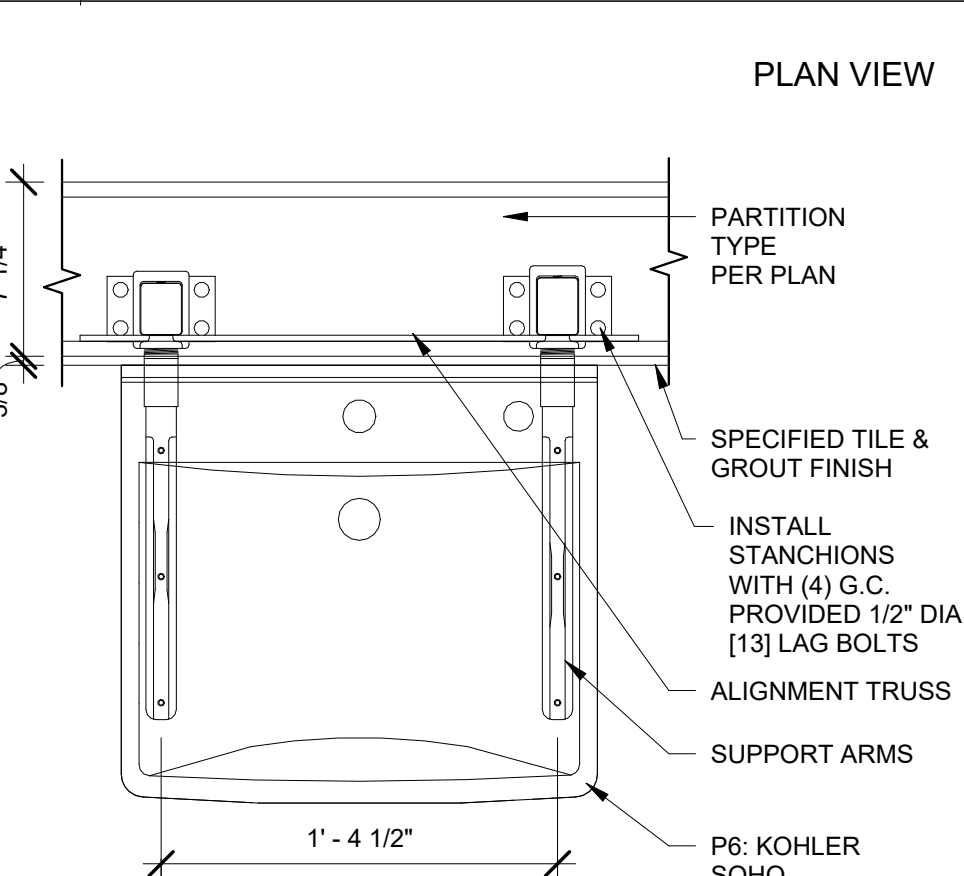


8 RESTROOM ACCESS SIGN

3/8" = 1'-0"

13 CORRIDOR 2

1/4" = 1'-0"

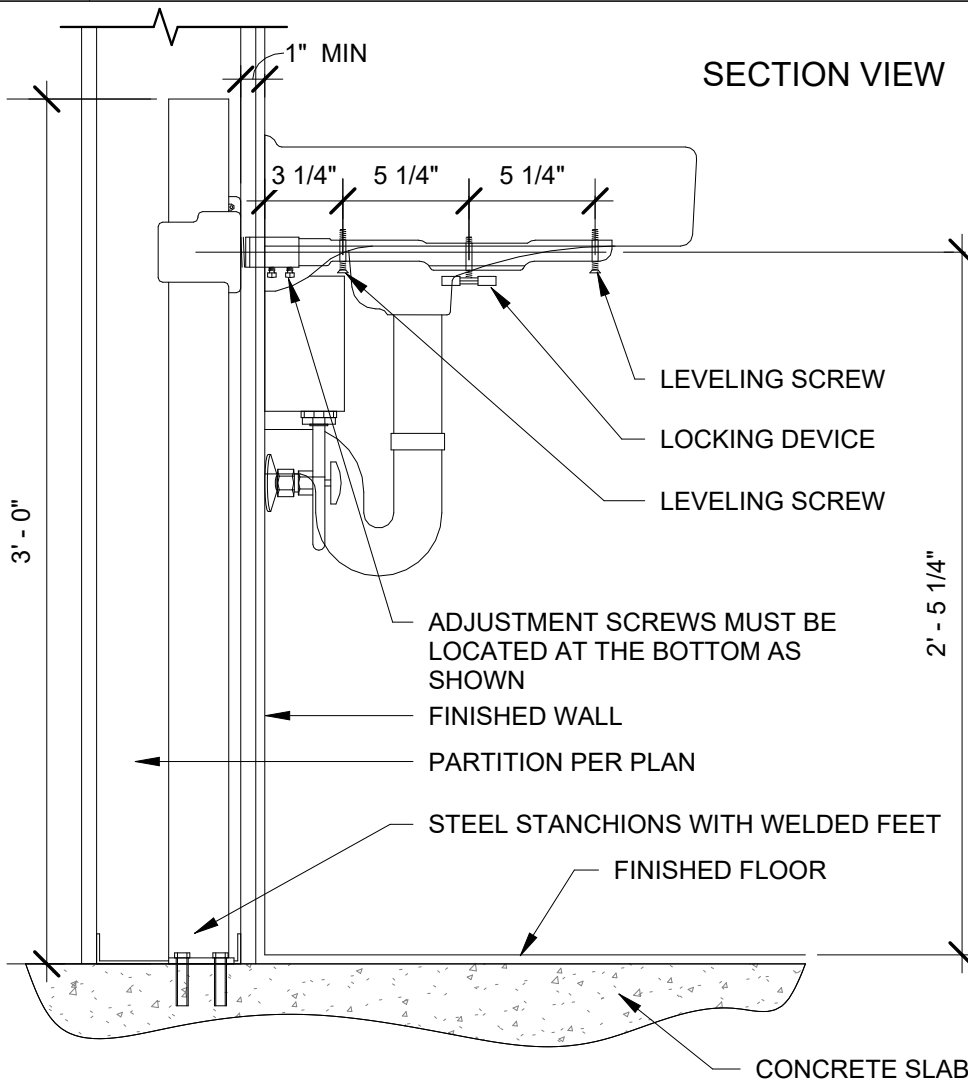


14 RESTROOM LAV CONCEALED ARM

1 1/2" = 1'-0"

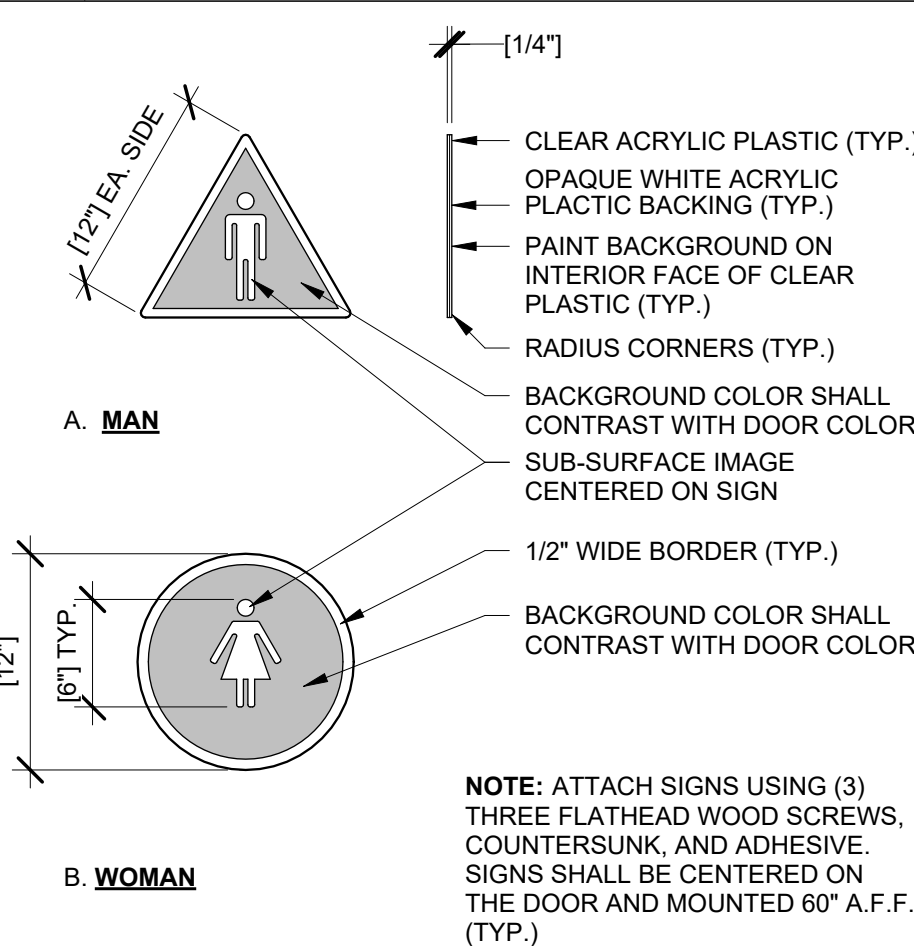
15 CORRIDOR 3

1/4" = 1'-0"



16 CORRIDOR 4

1/4" = 1'-0"



12 RESTROOM SIGNS

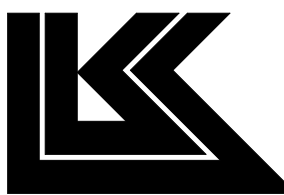
3/8" = 1'-0"

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

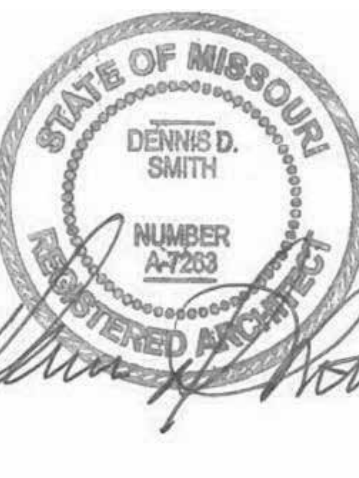


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Consultant Copyright Placeholder

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

**ENLARGED  
RESTROOM PLANS &  
INTERIOR  
ELEVATIONS**

Project Number:

Sheet Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DFM:

DM:

CPM:

DPM:

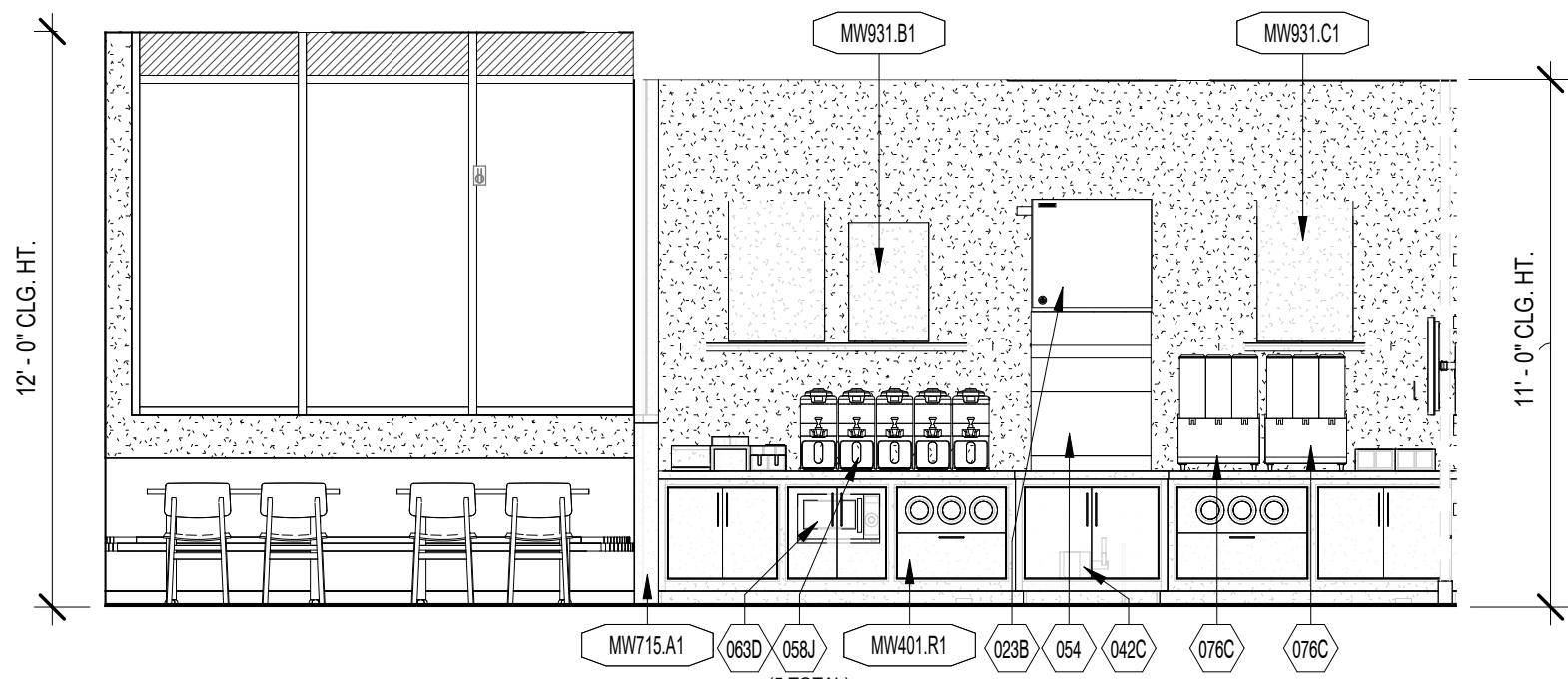
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CPM:

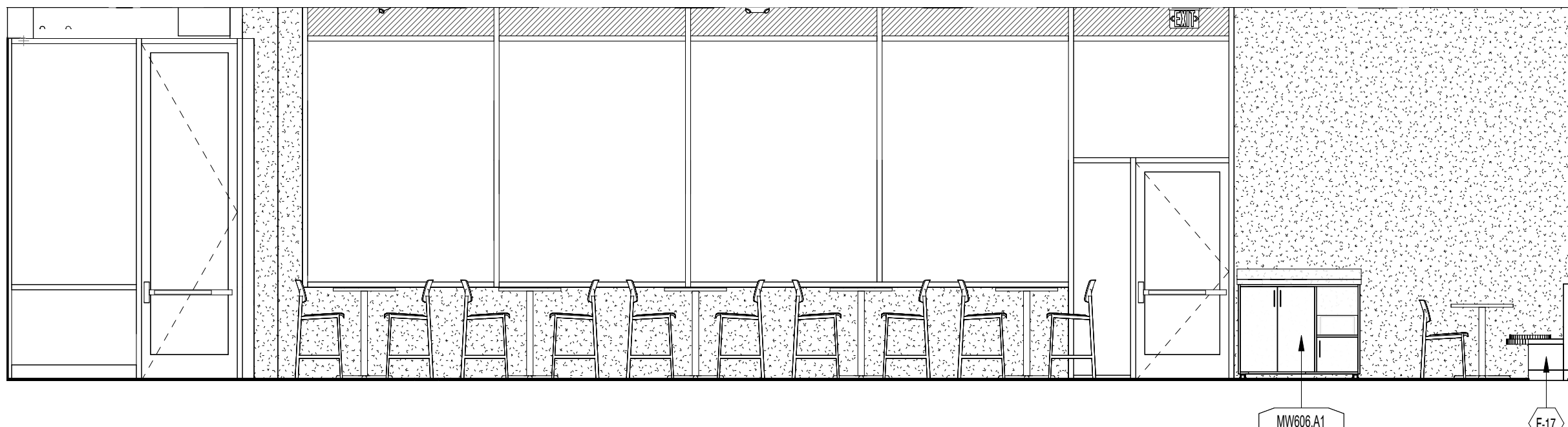
A400

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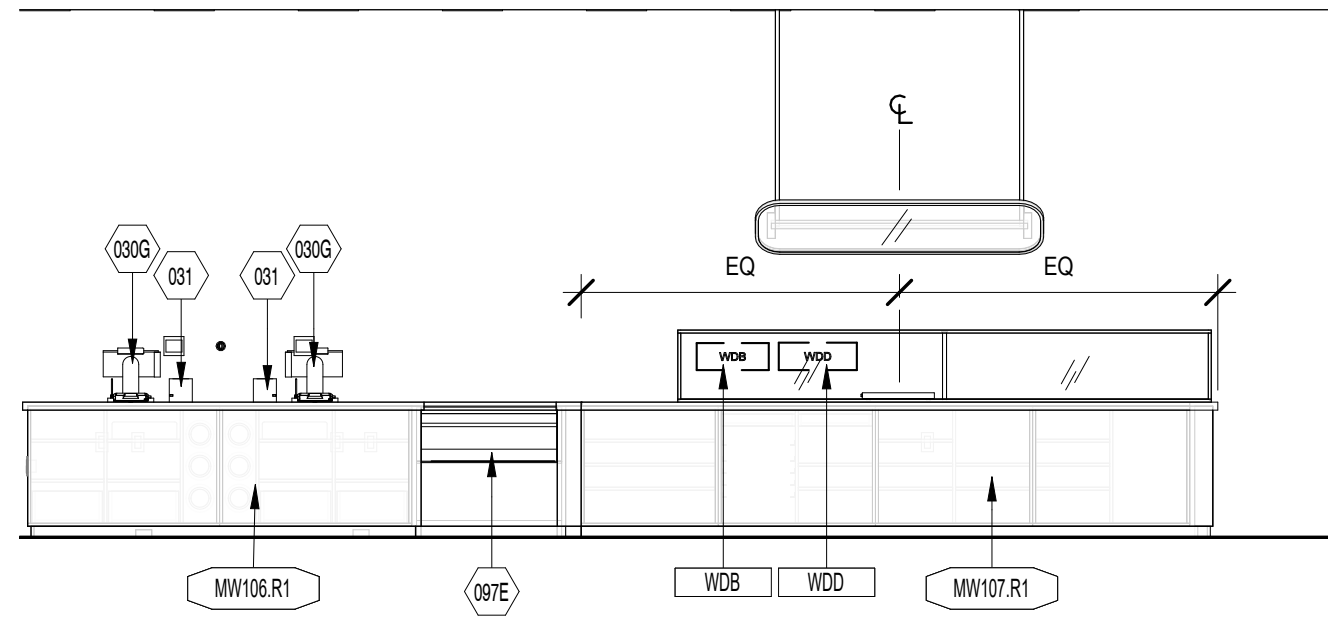
PR 2021.03.11



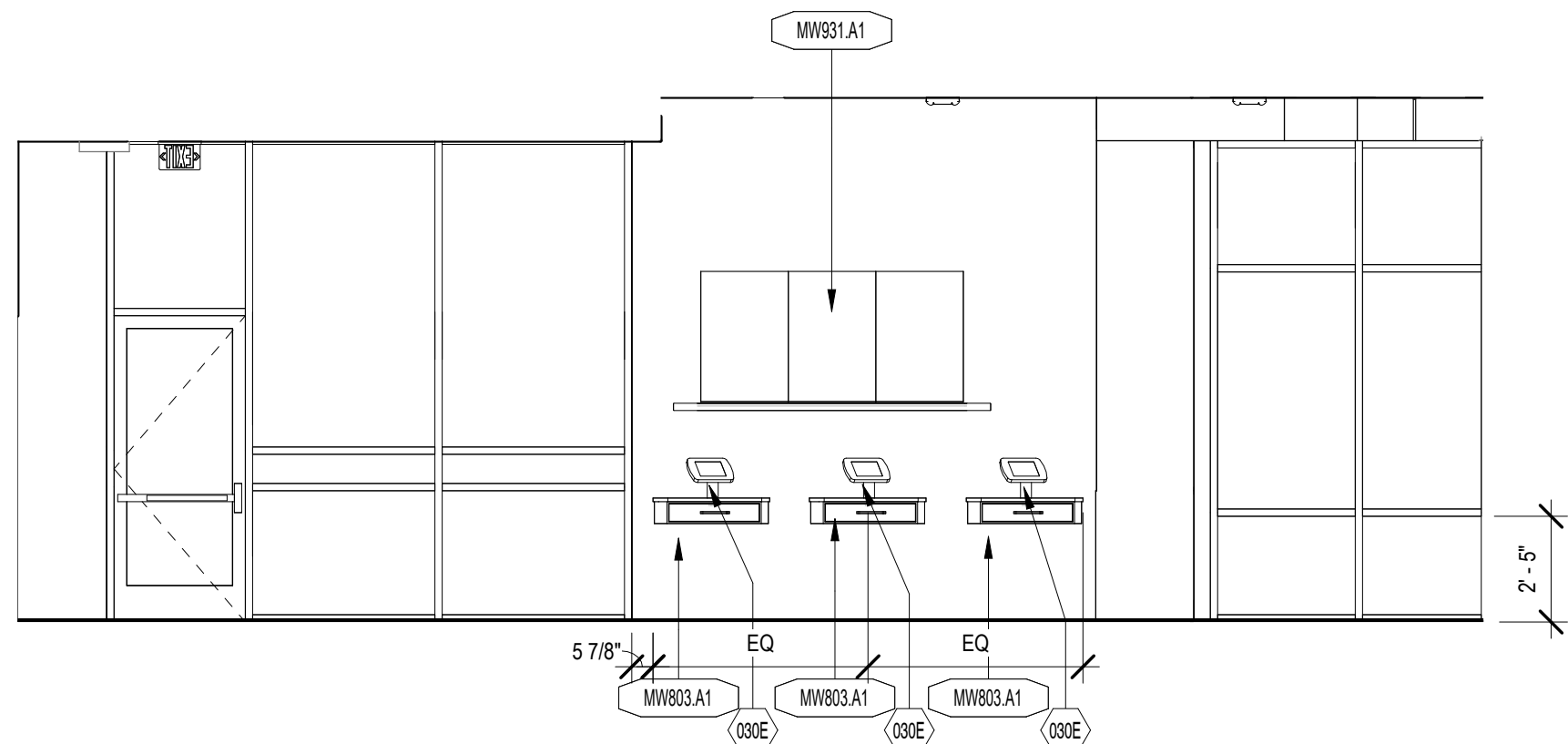
10 DINING ELEVATION 3  
1/4" = 1'-0"



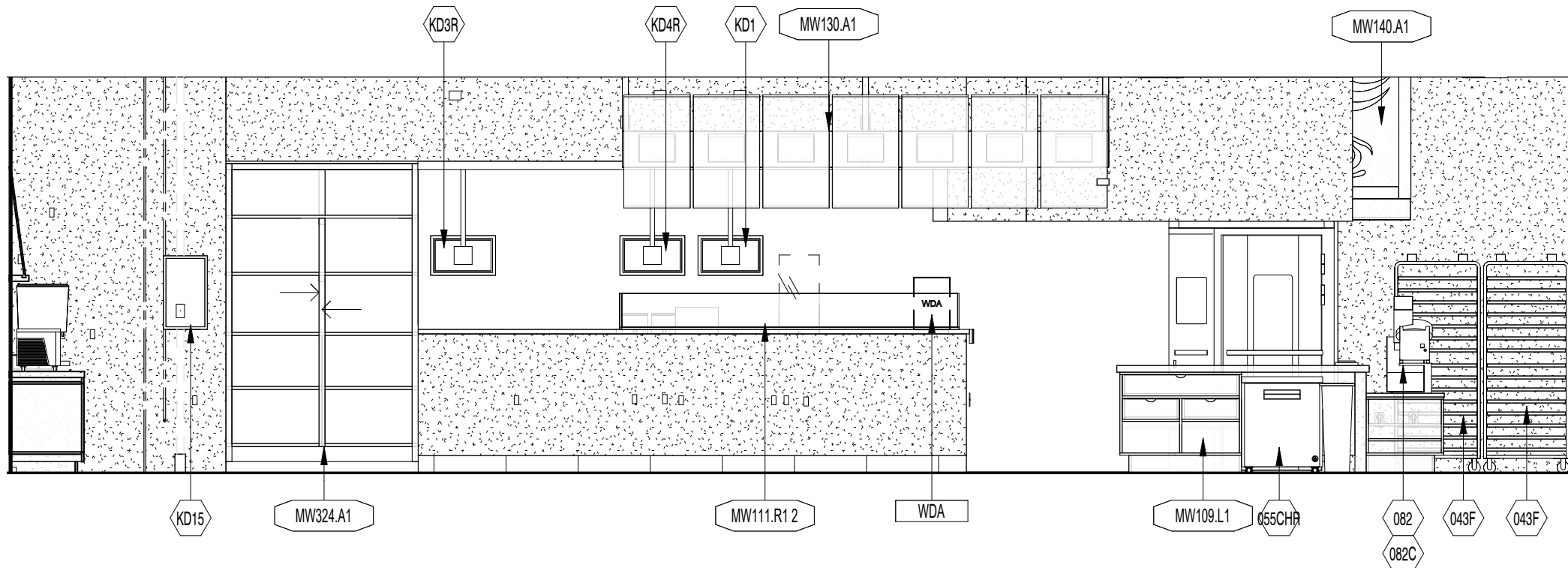
9 DINING ELEVATION 2  
1/4" = 1'-0"



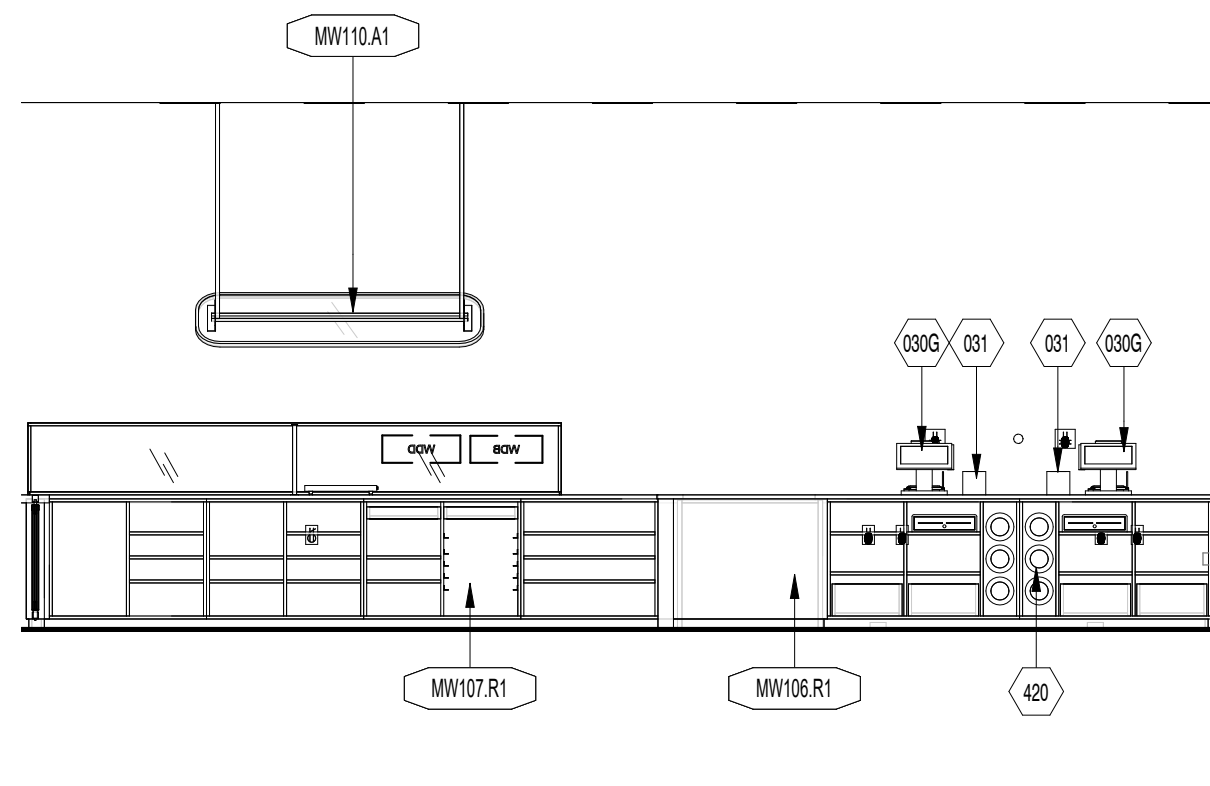
8 BAKERY SERVICE FRONT  
1/4" = 1'-0"



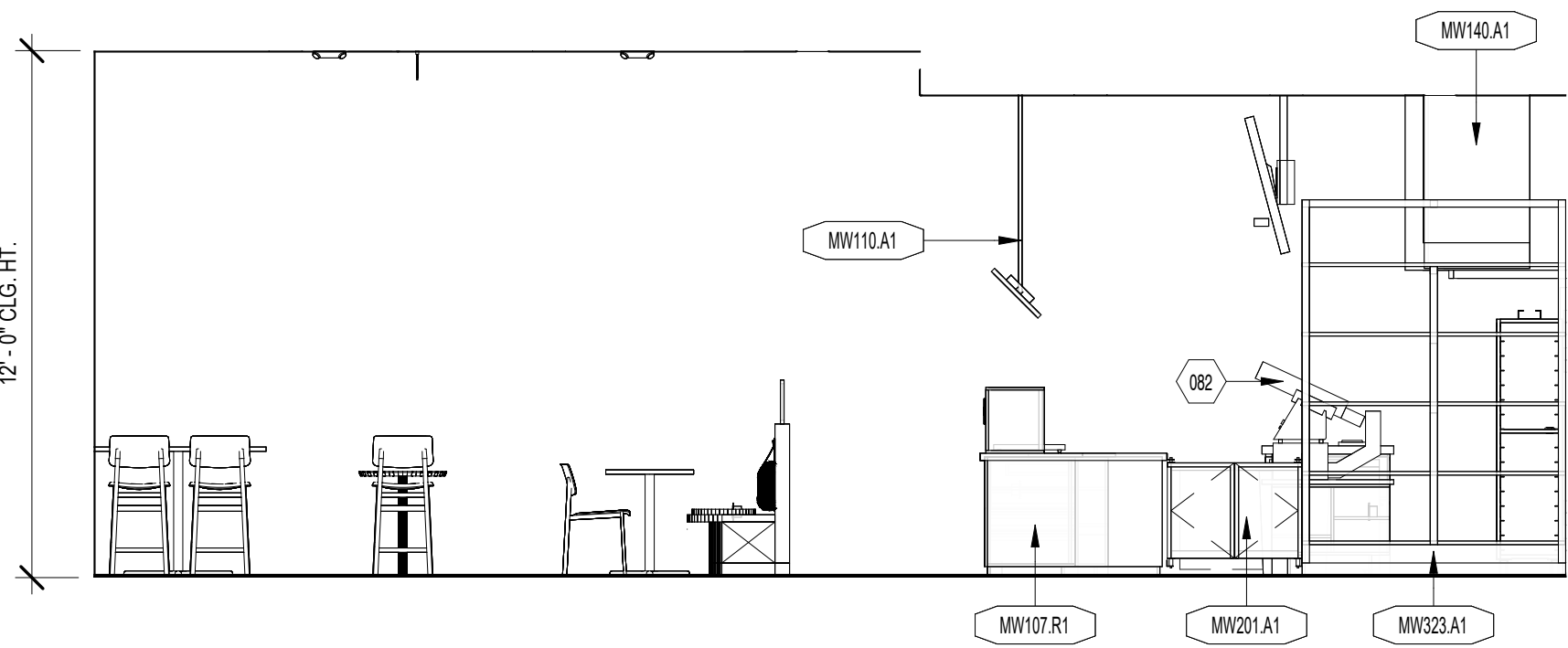
7 DINING ELEVATION 1  
1/4" = 1'-0"



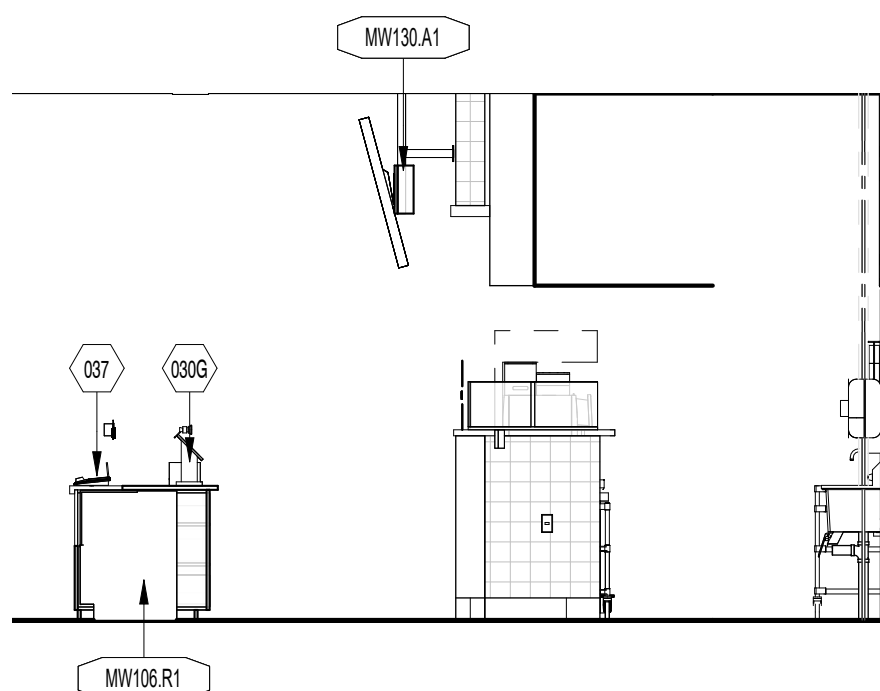
6 CONSOLIDATION / BAKERY ELEVATION  
1/4" = 1'-0"



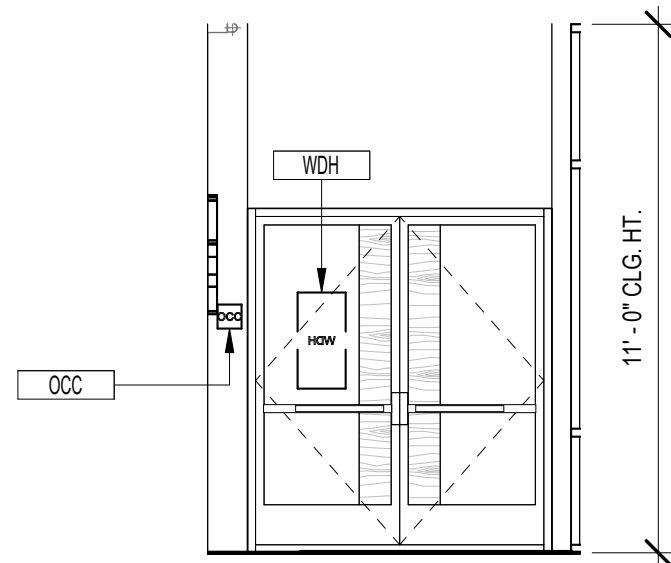
5 BAKERY SERVICE REAR  
1/4" = 1'-0"



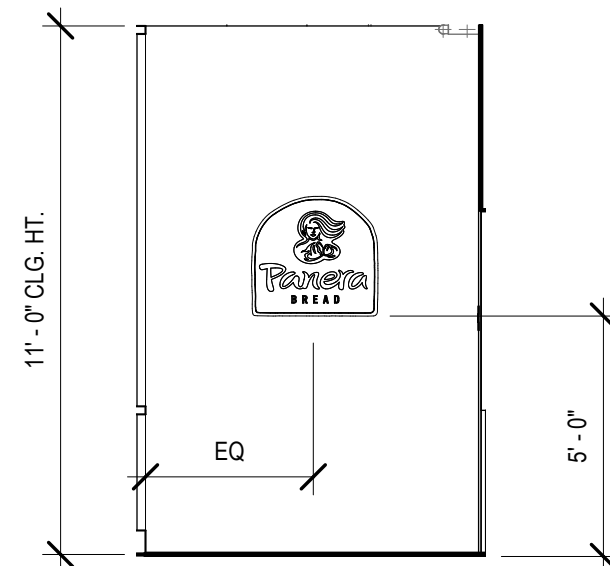
3 DINING ELEVATION 4  
1/4" = 1'-0"



4 BAKERY SERVICE ELEVATION  
1/4" = 1'-0"



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



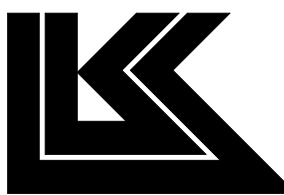
1 VESTIBULE ELEVATION 1  
1/4" = 1'-0"

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

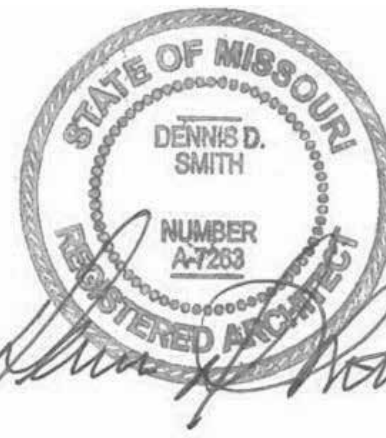


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**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086

PROTOTYPE - NEW CONSTRUCTION - SHELL



Consultant Copyright Placeholder

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

**INTERIOR  
ELEVATIONS FRONT  
OF HOUSE**

Project Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DFM:

DPM

Sheet Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DFM:

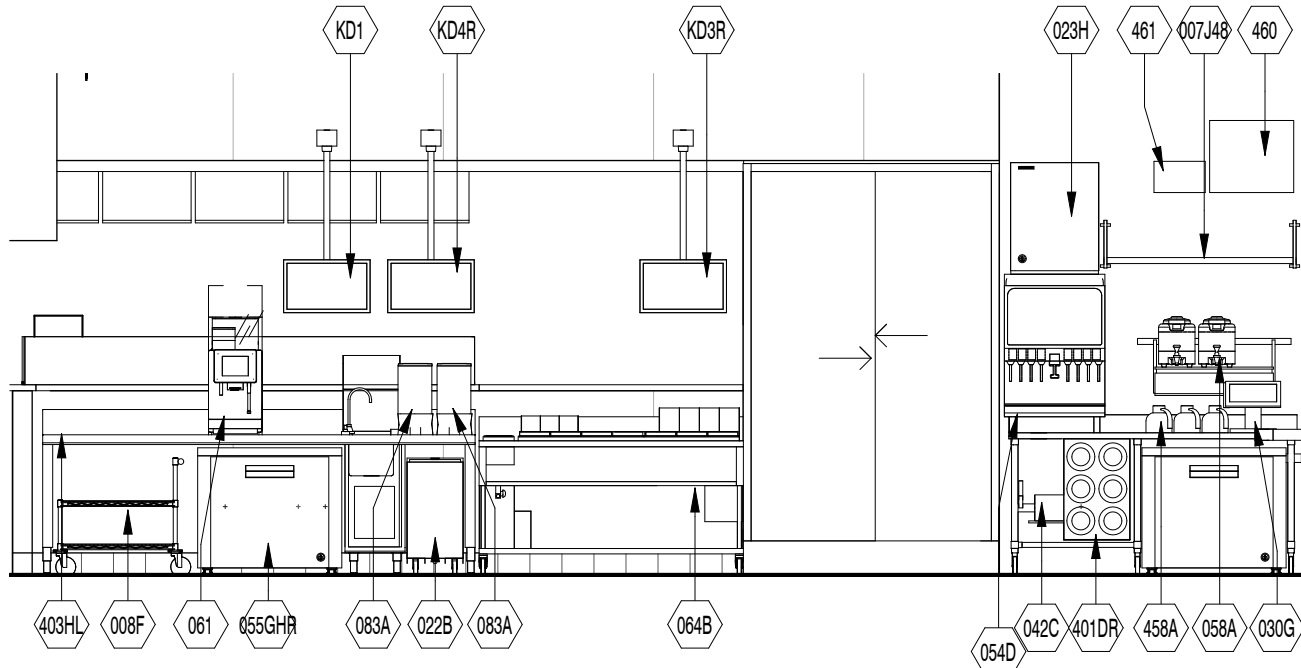
DPM

CPM:

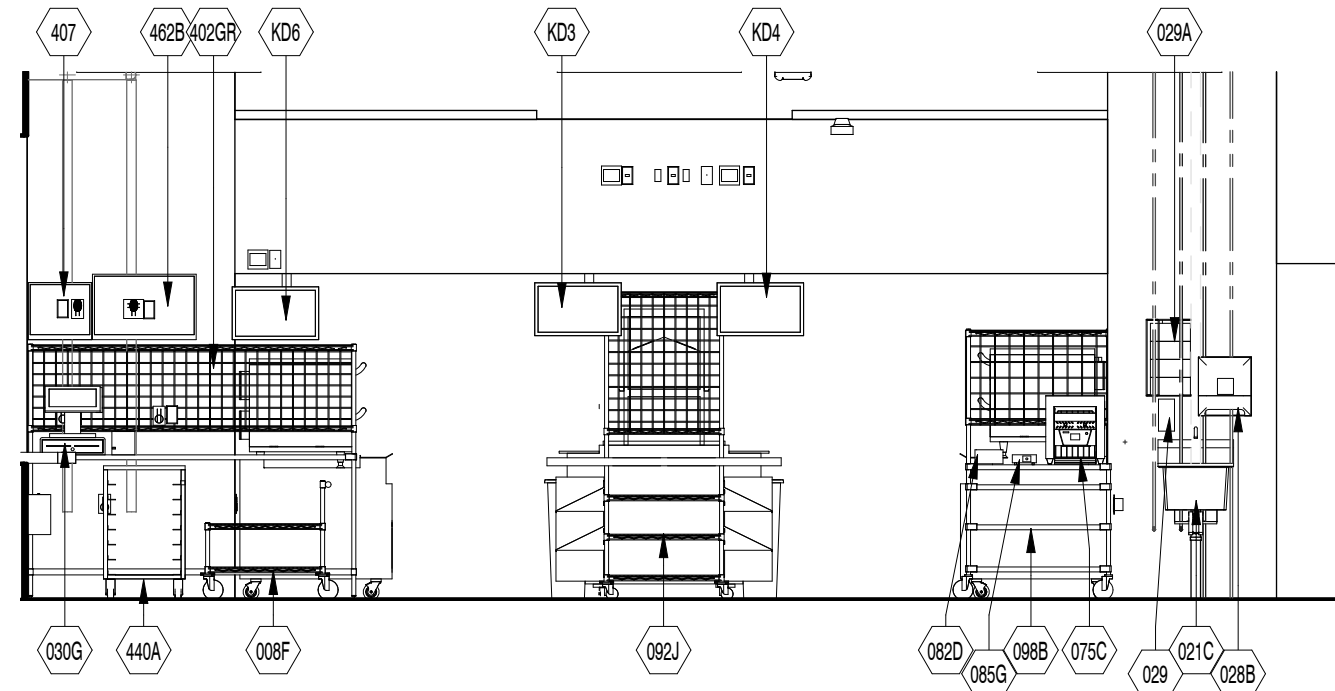
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**A410**

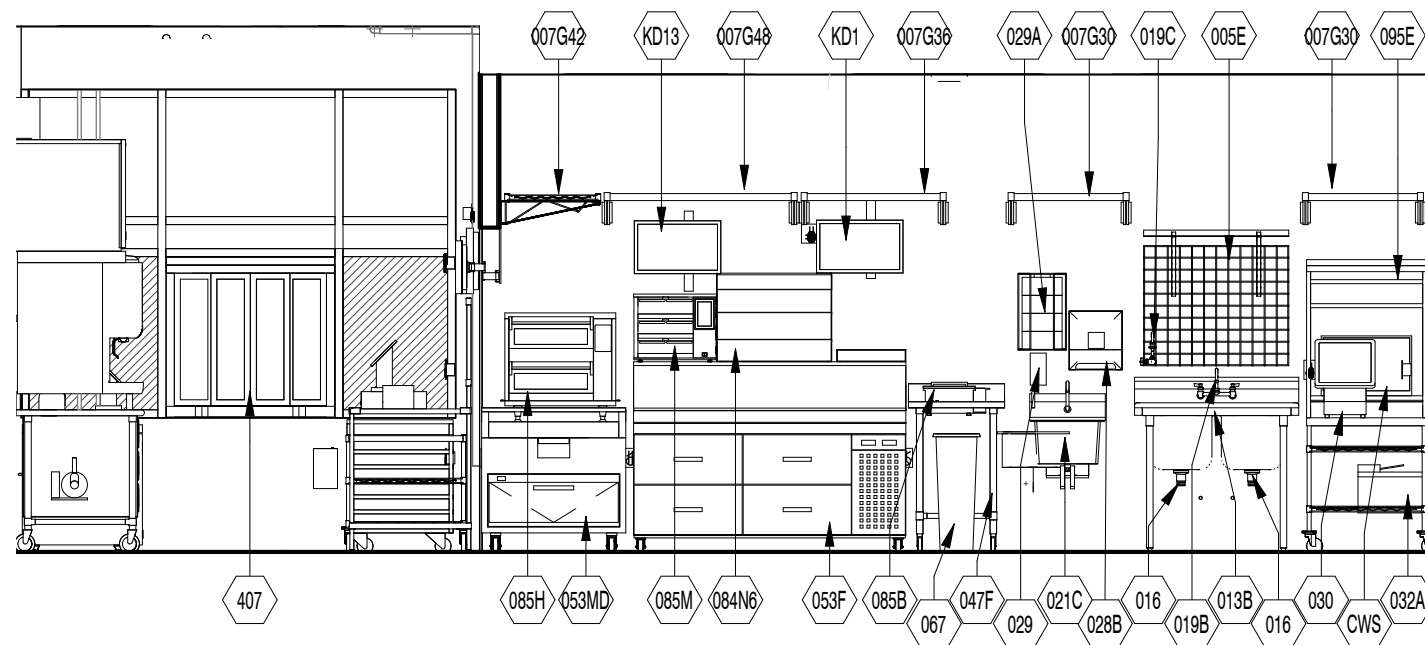
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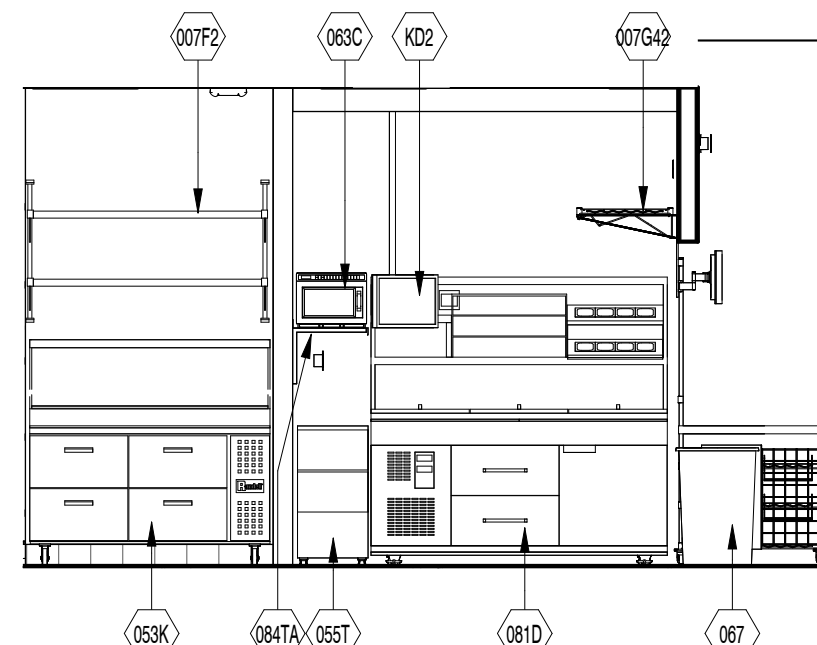
12 | CONSOLIDATION ELEVATION - SOUTH  
1/4" = 1'-0"



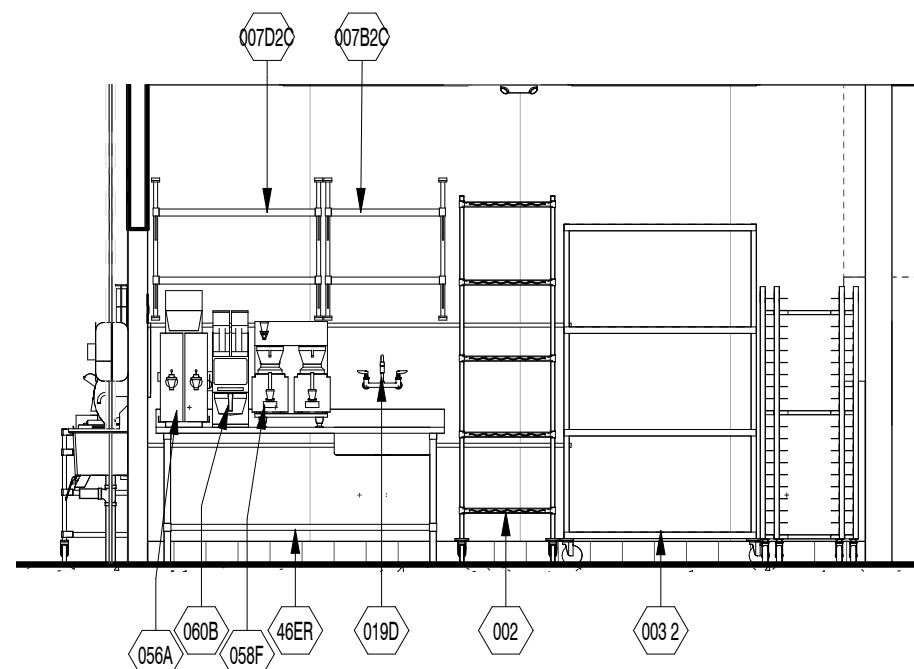
11 | CONSOLIDATION ELEVATION - NORTH  
1/4" = 1'-0"



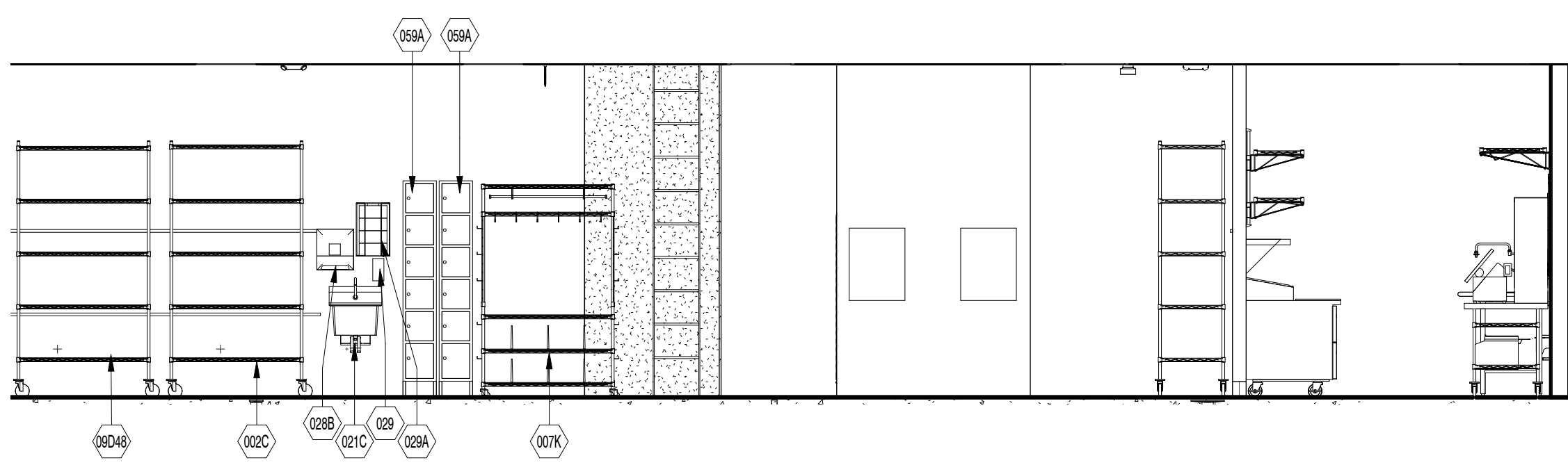
10 | KITCHEN ELEVATION 2 / CONSOLIDATION - WEST  
1/4" = 1'-0"



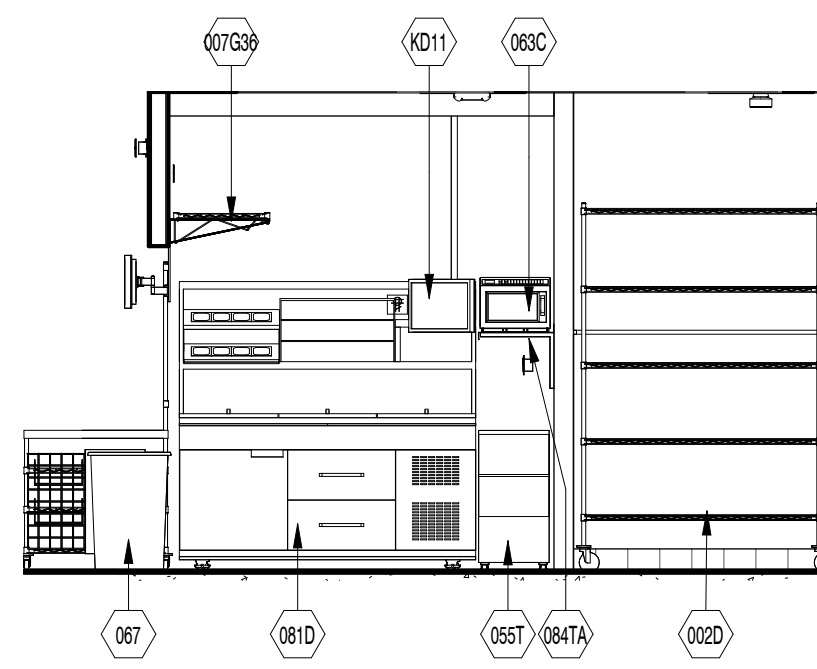
9 | KITCHEN ELEVATION 2 - EAST  
1/4" = 1'-0"



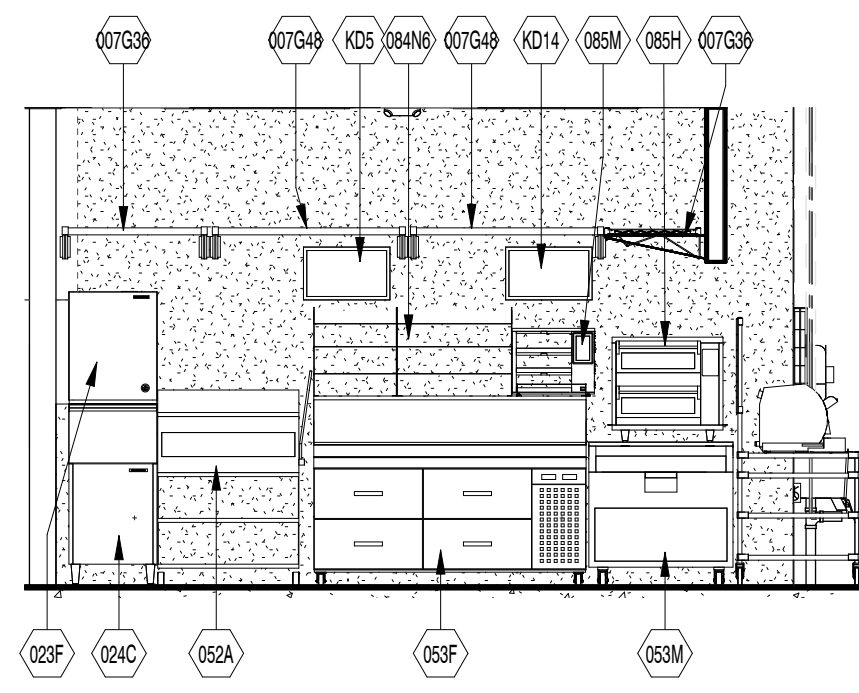
6 | REAR BAKERY - WEST  
1/4" = 1'-0"



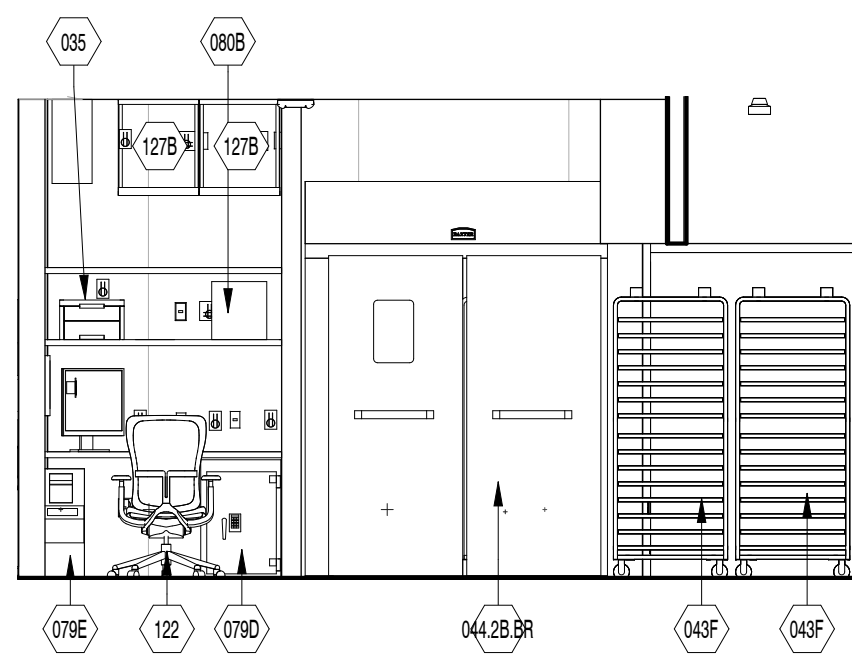
4 | KITCHEN ELEVATION - SOUTH  
1/4" = 1'-0"



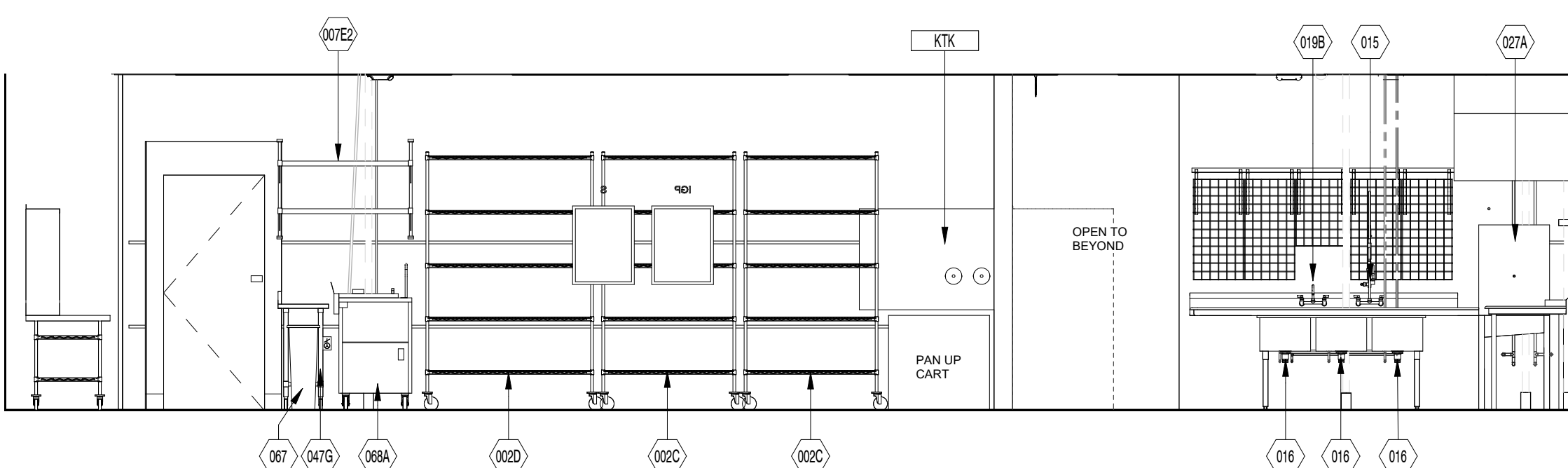
8 | KITCHEN ELEVATION 1 - WEST  
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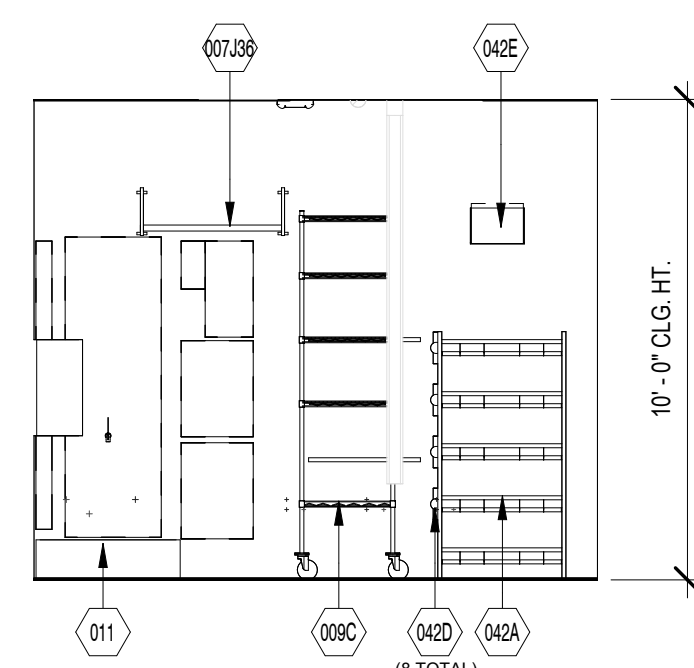
7 | KITCHEN ELEVATION 1 - EAST  
1/4" = 1'-0"



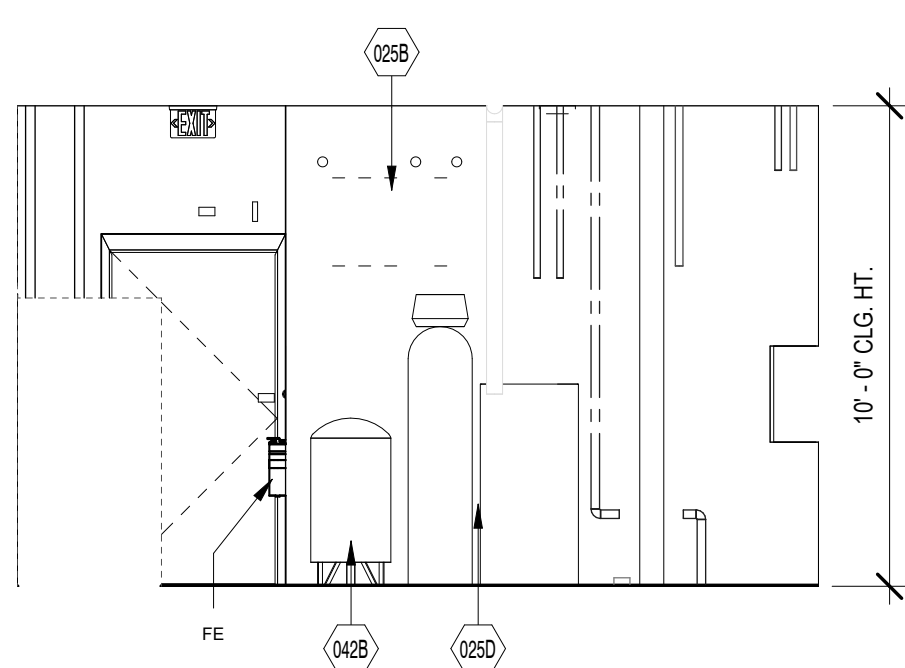
5 | REAR BAKERY - EAST  
1/4" = 1'-0"



3 | KITCHEN ELEVATION - NORTH  
1/4" = 1'-0"



2 | UTILITY ELEVATION - SOUTH  
1/4" = 1'-0"



1 | UTILITY ELEVATION - NORTH  
1/4" = 1'-0"

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

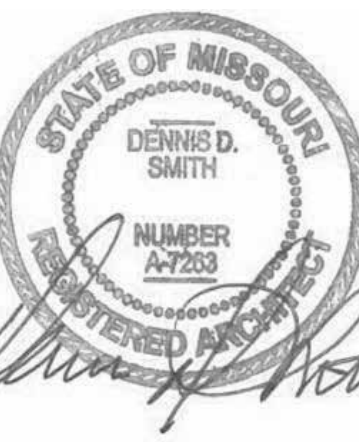


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No.	Description	Date
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INTERIOR  
ELEVATIONS BACK  
OF HOUSE

Project Number:

22169

Drawn By:

Author:

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07/05/2022

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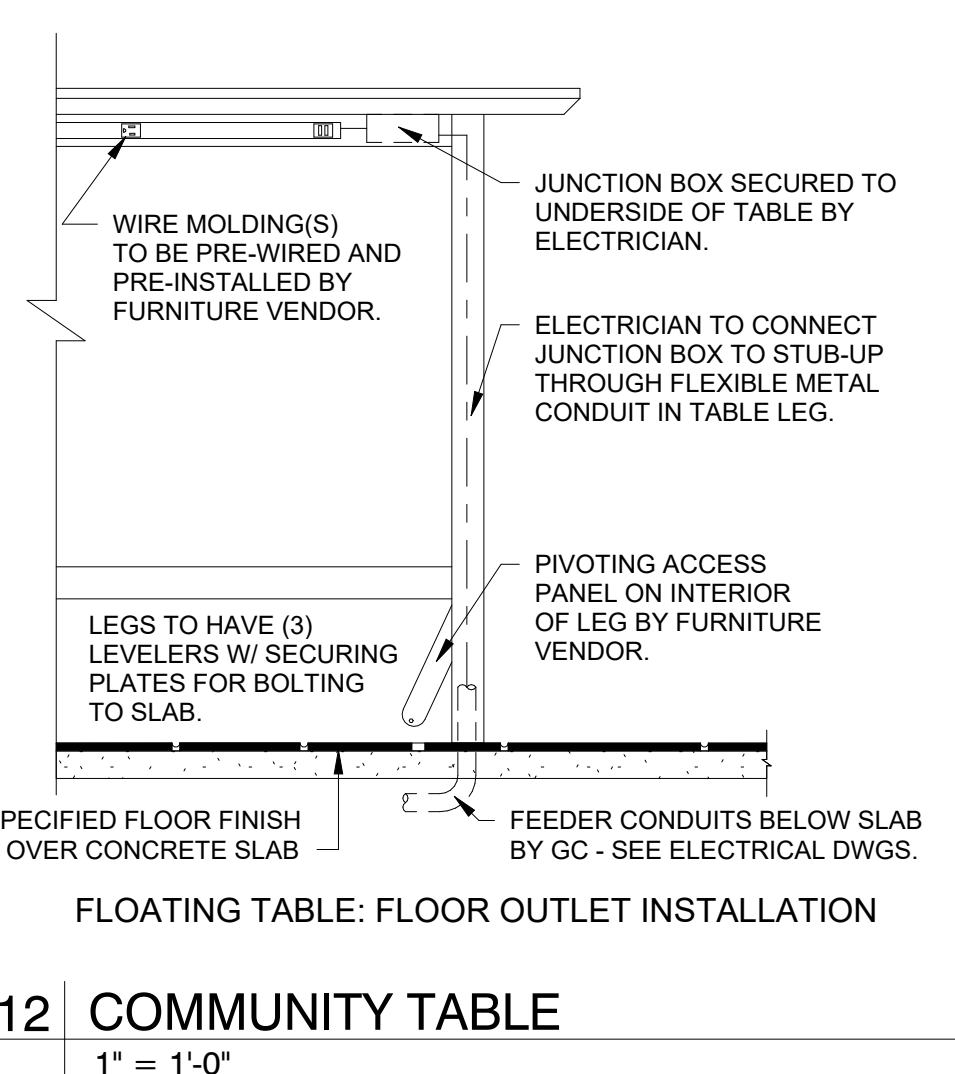
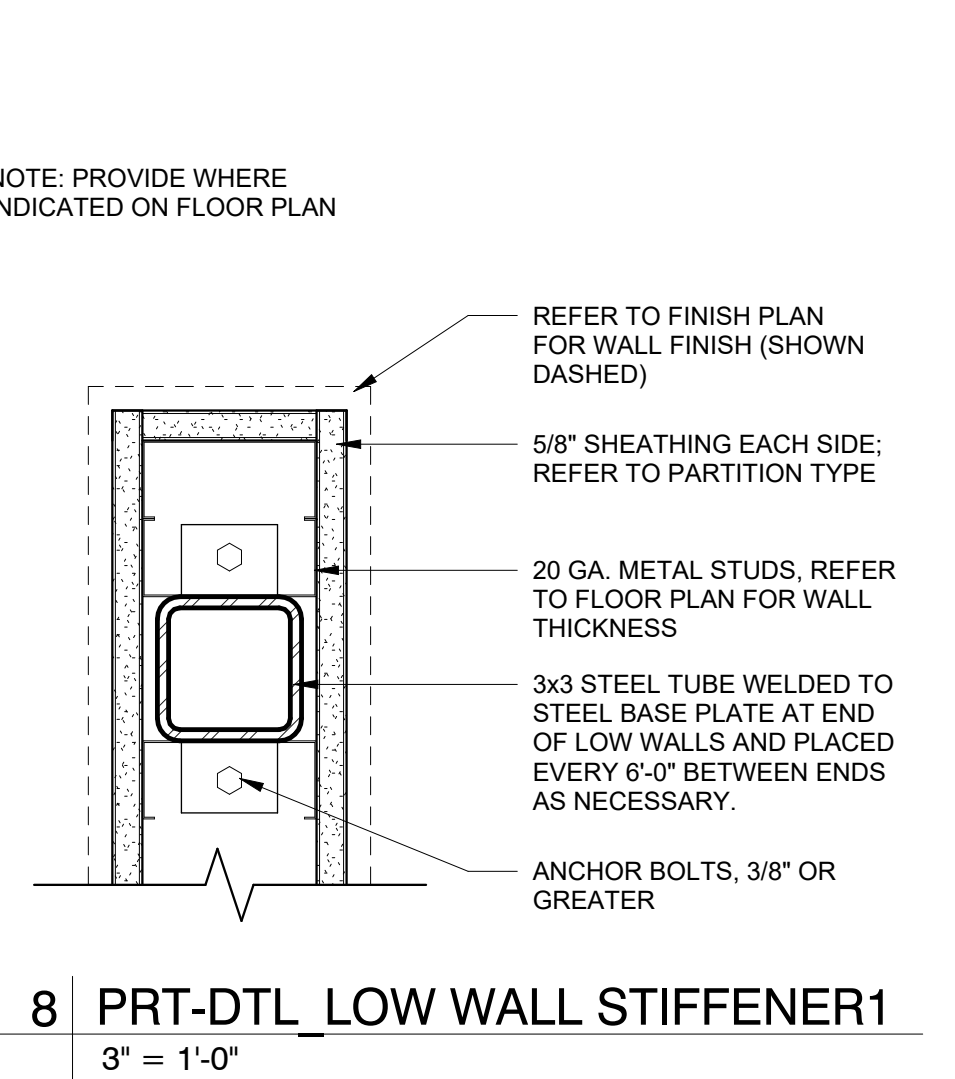
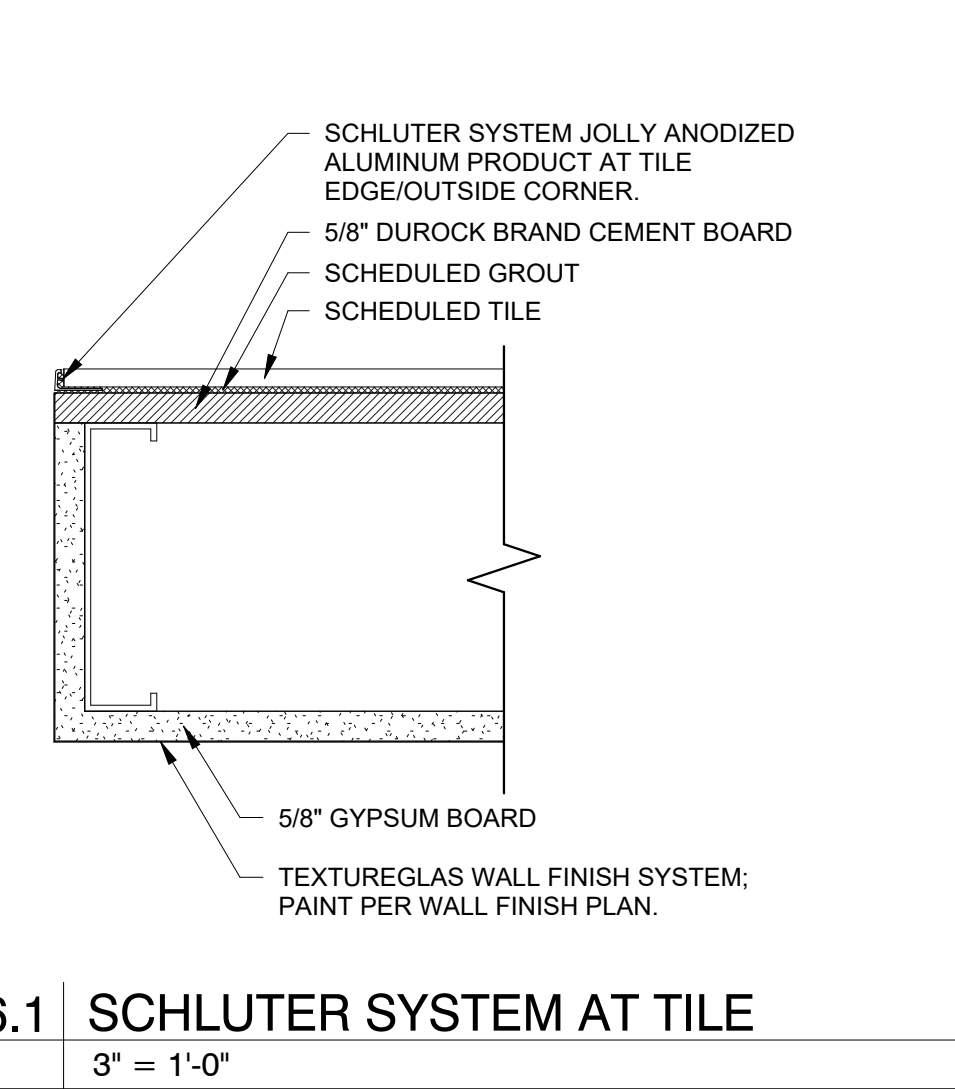
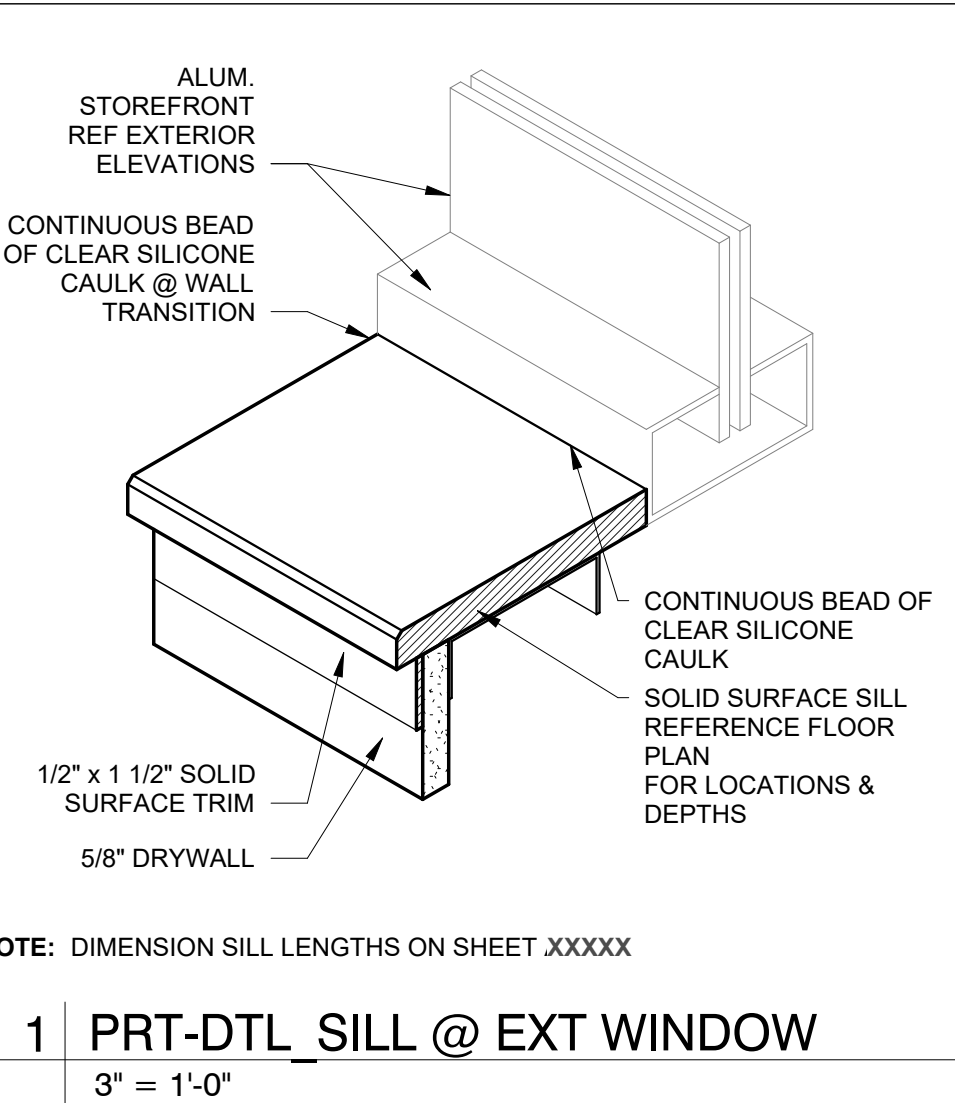
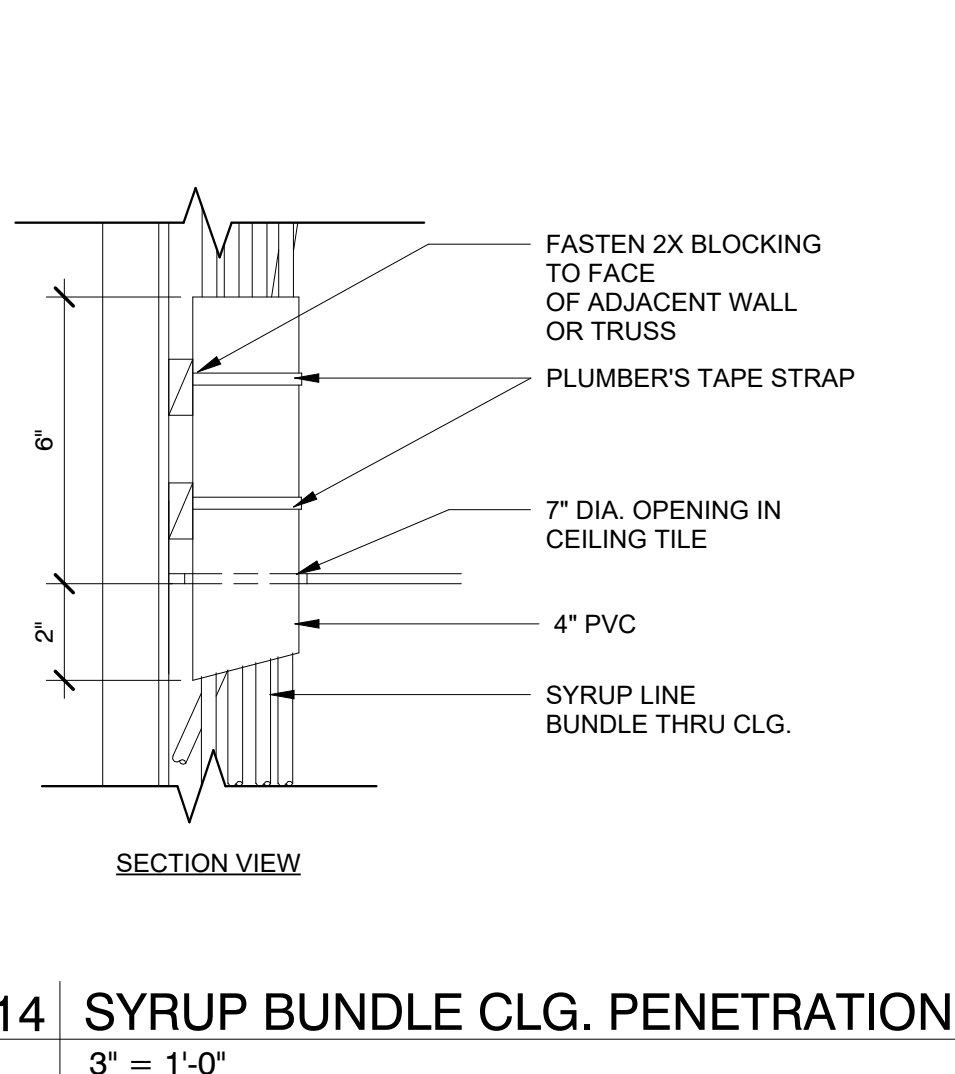
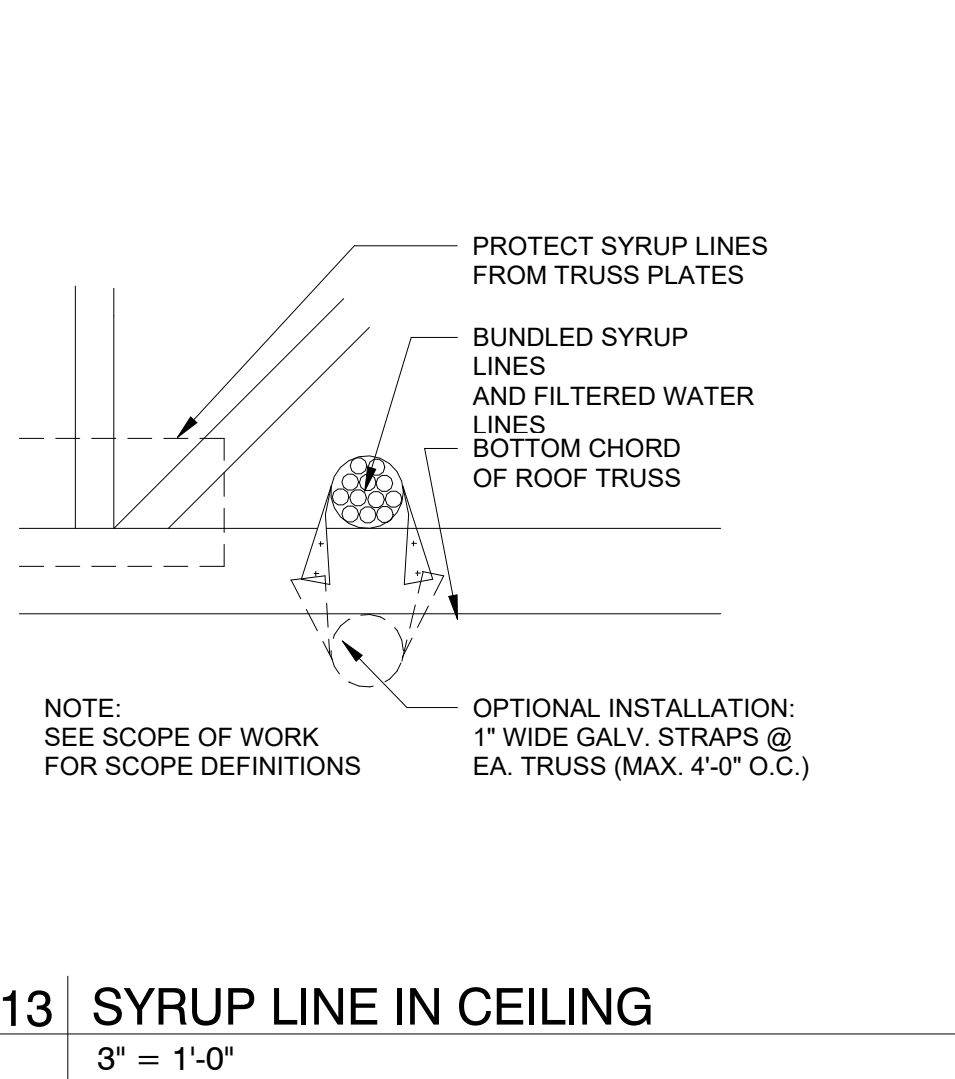
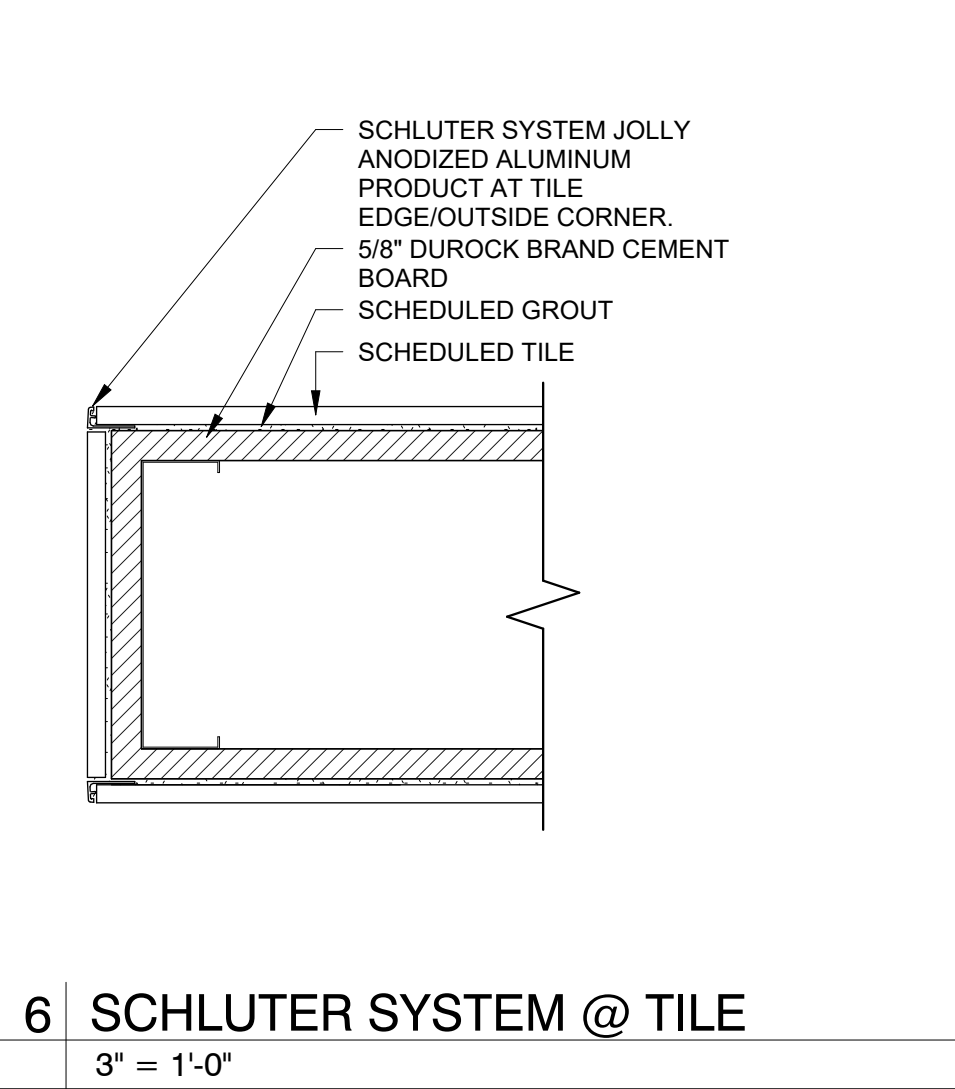
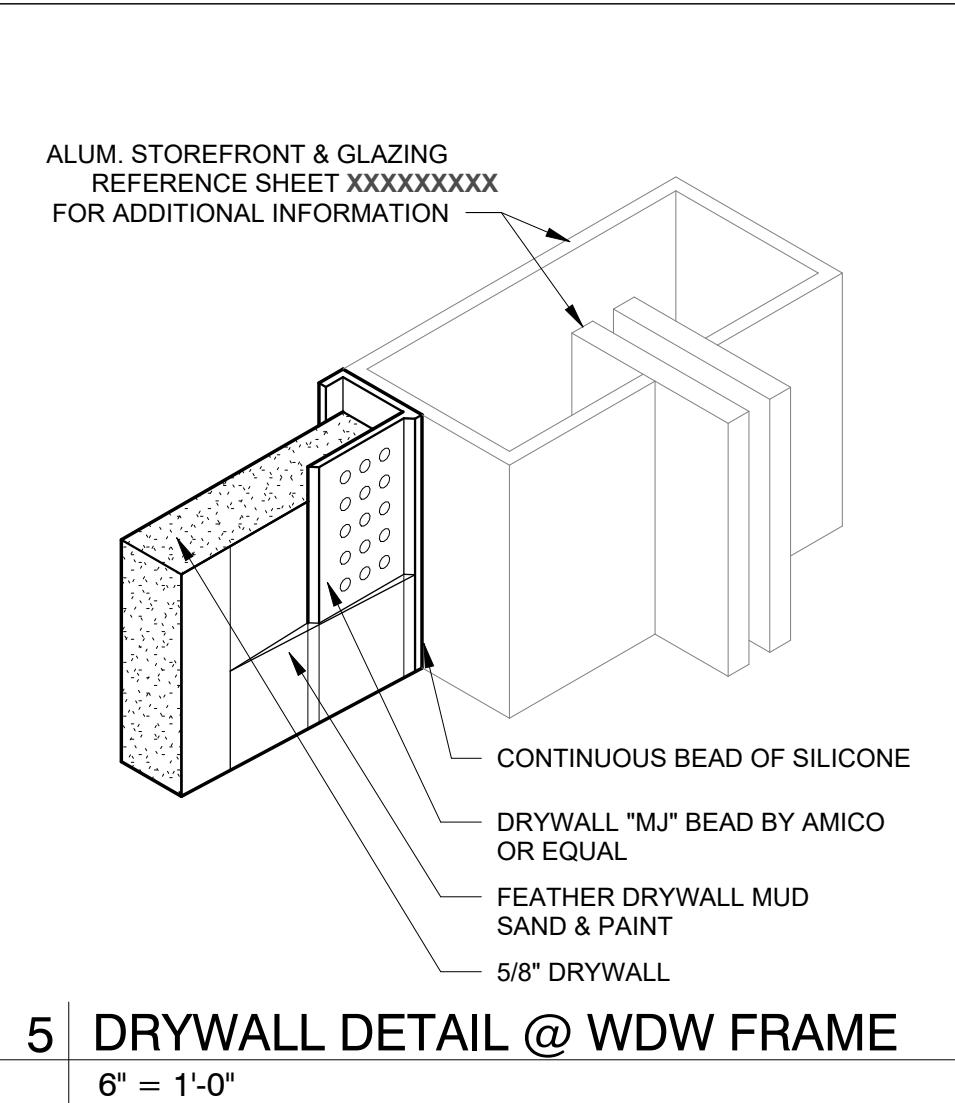
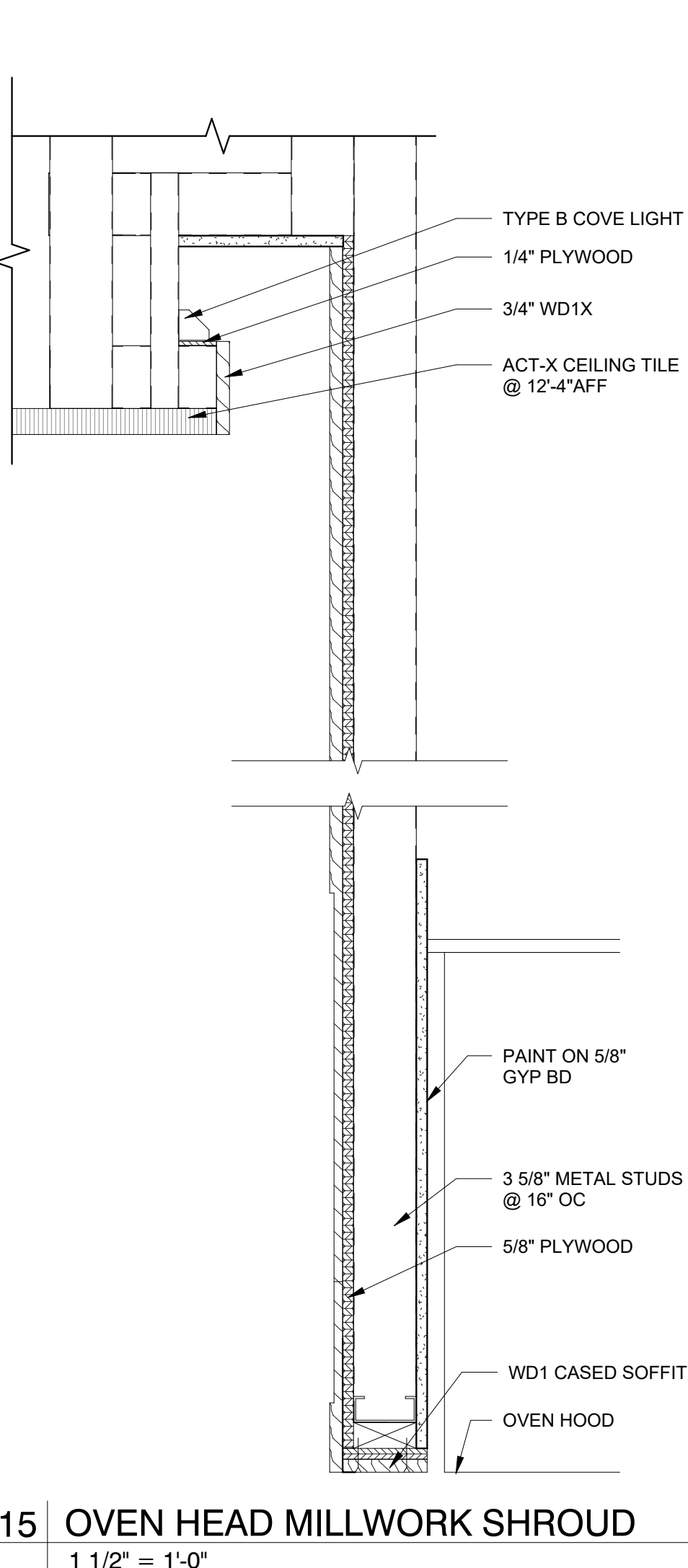
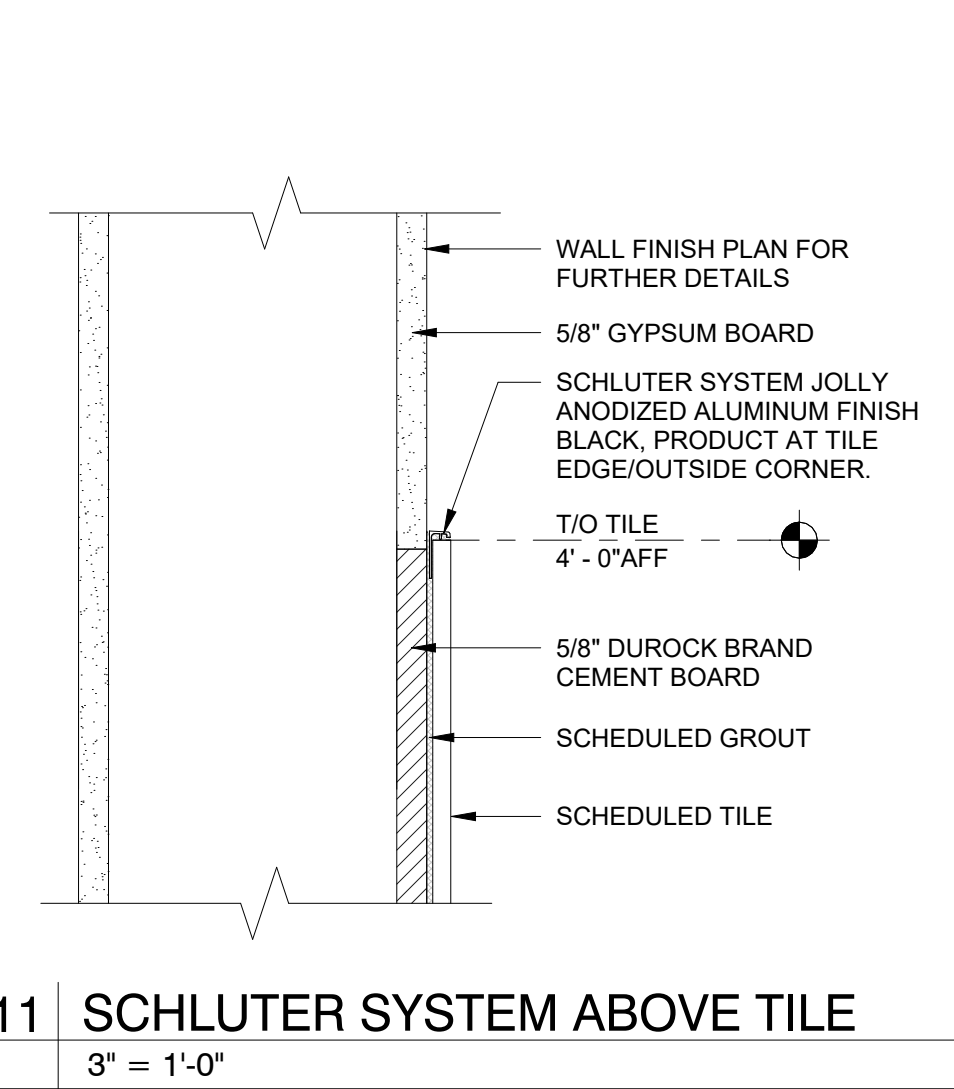
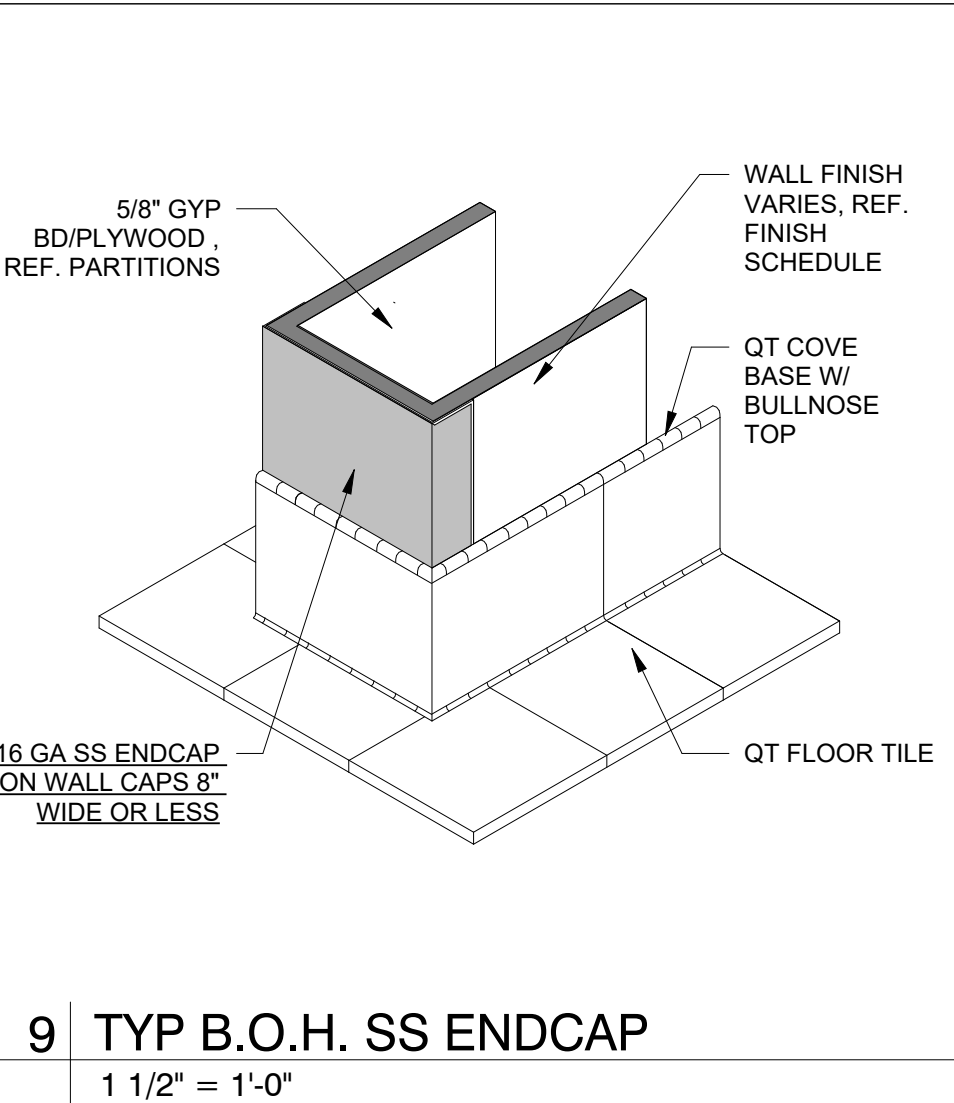
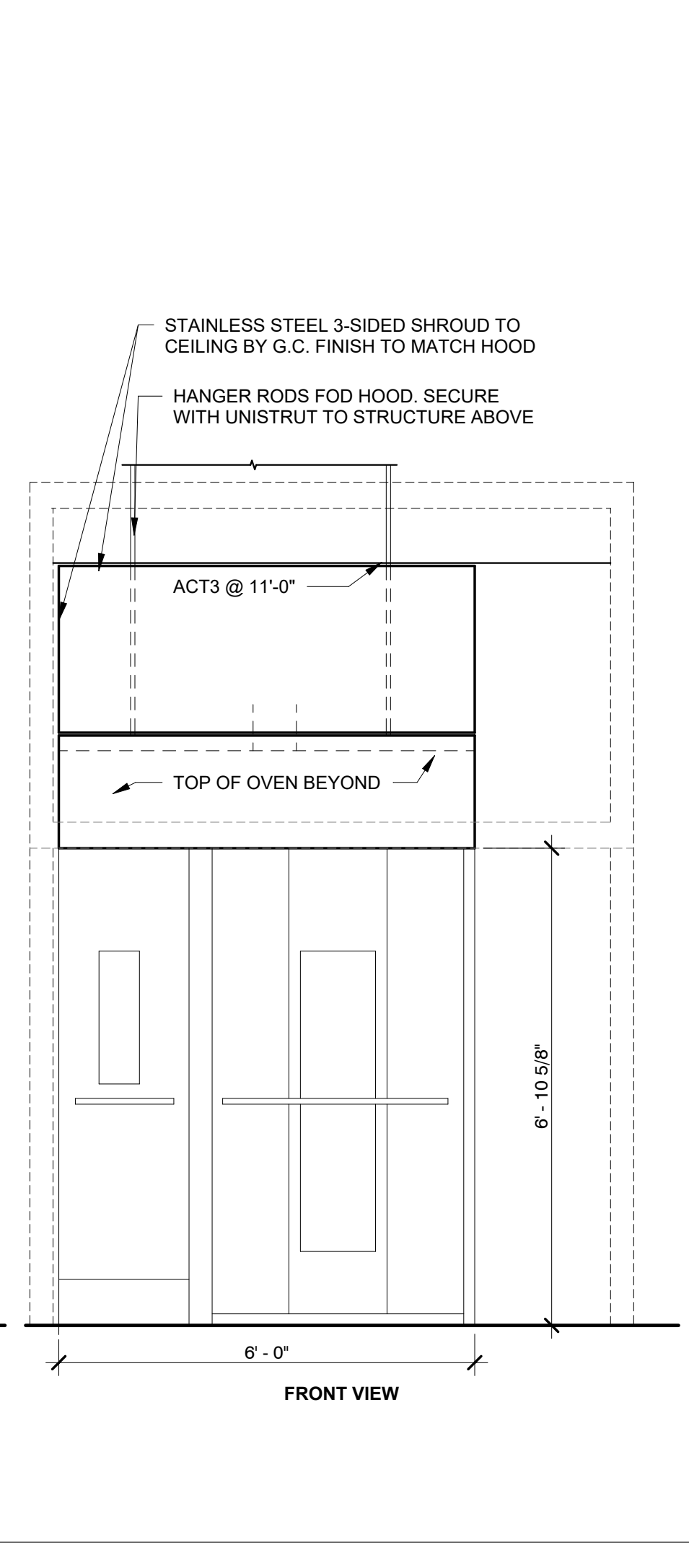
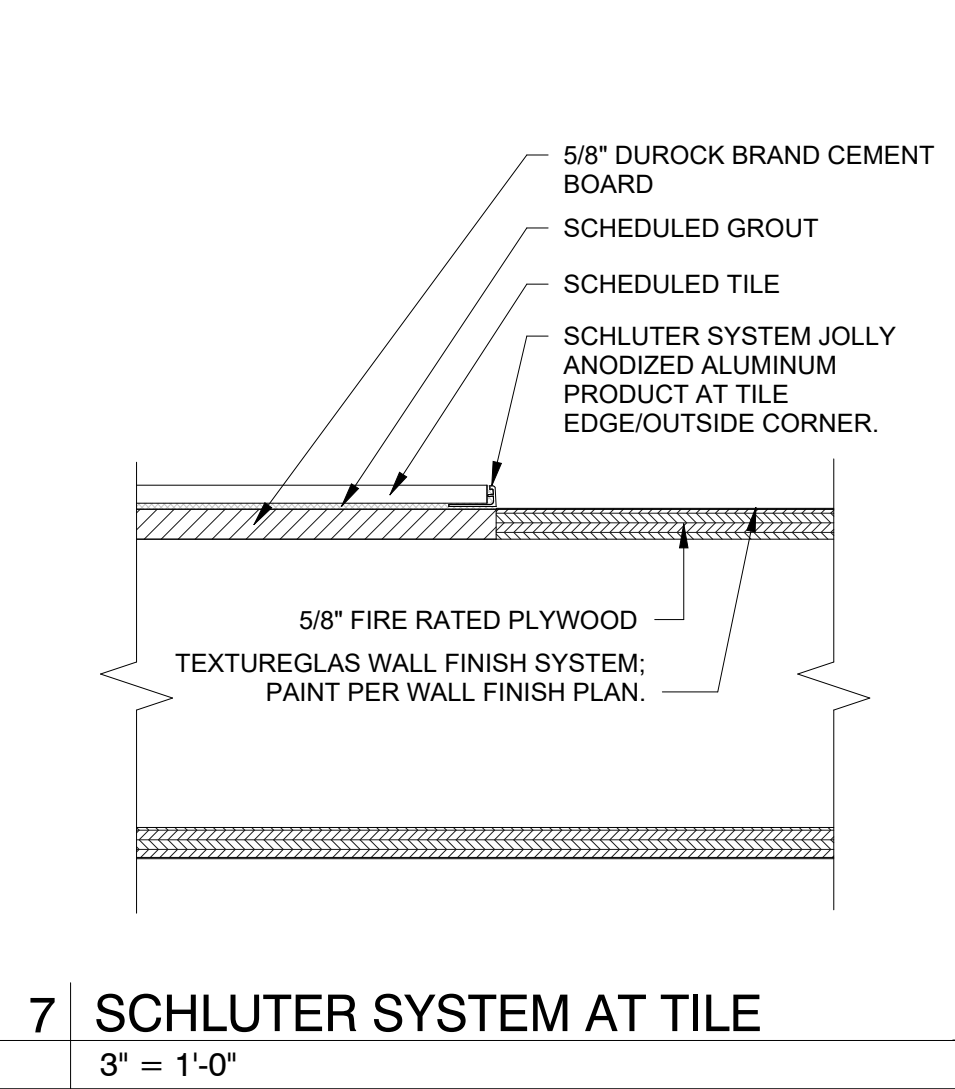
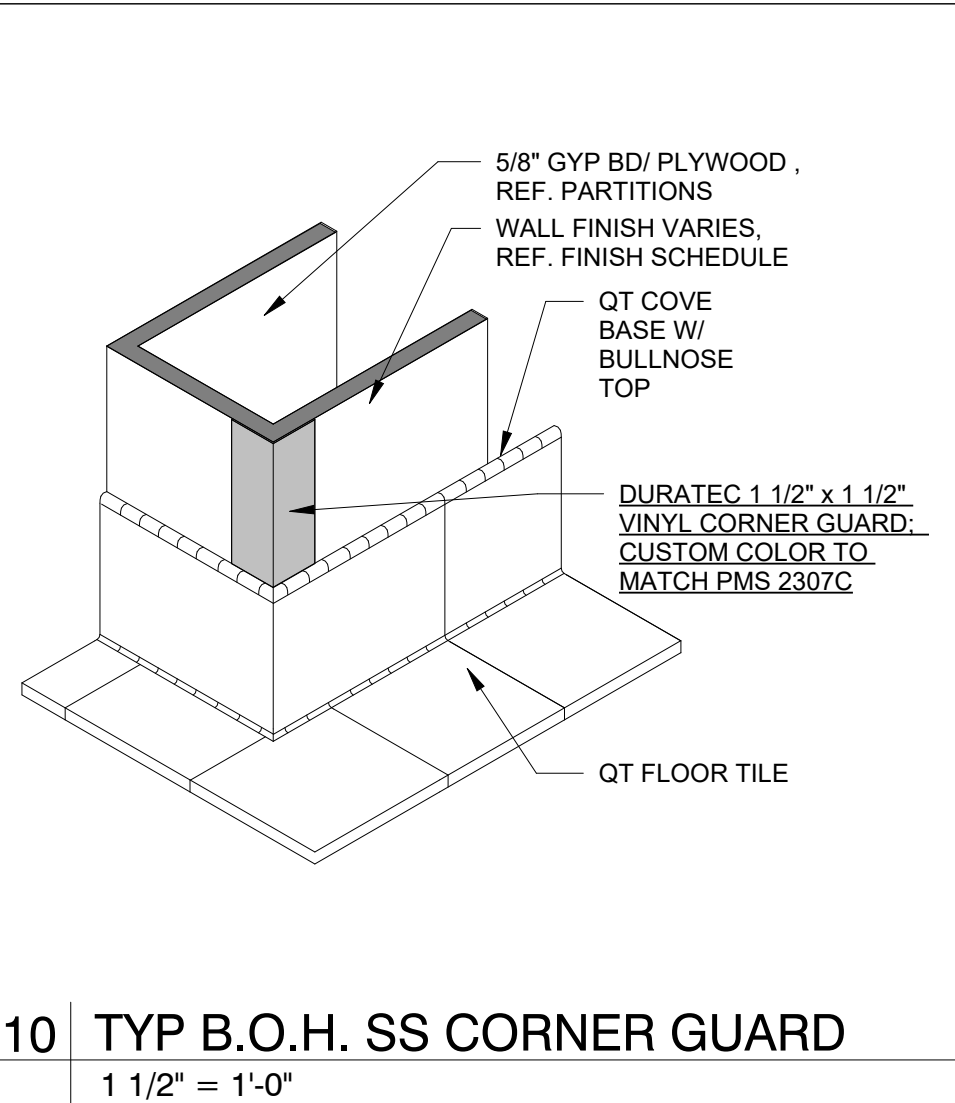
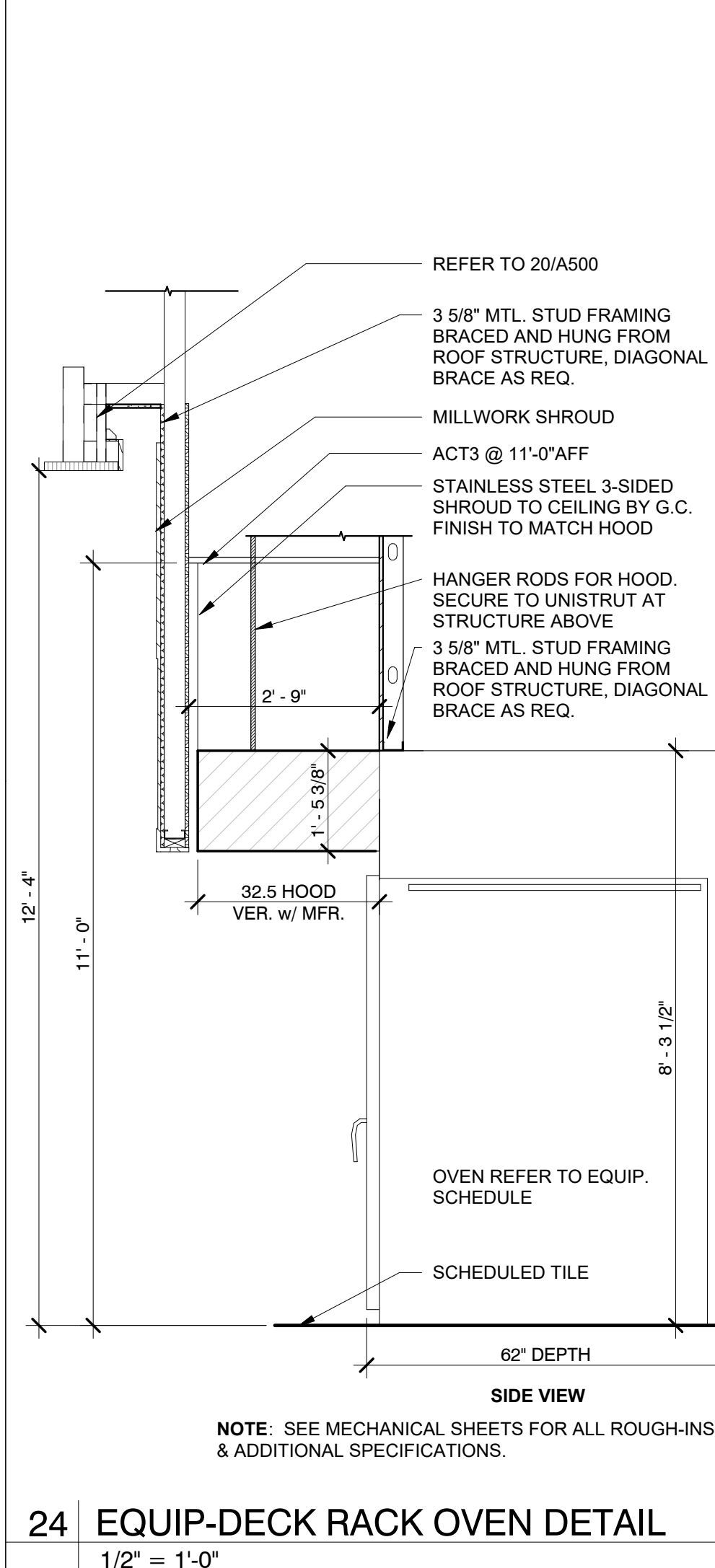
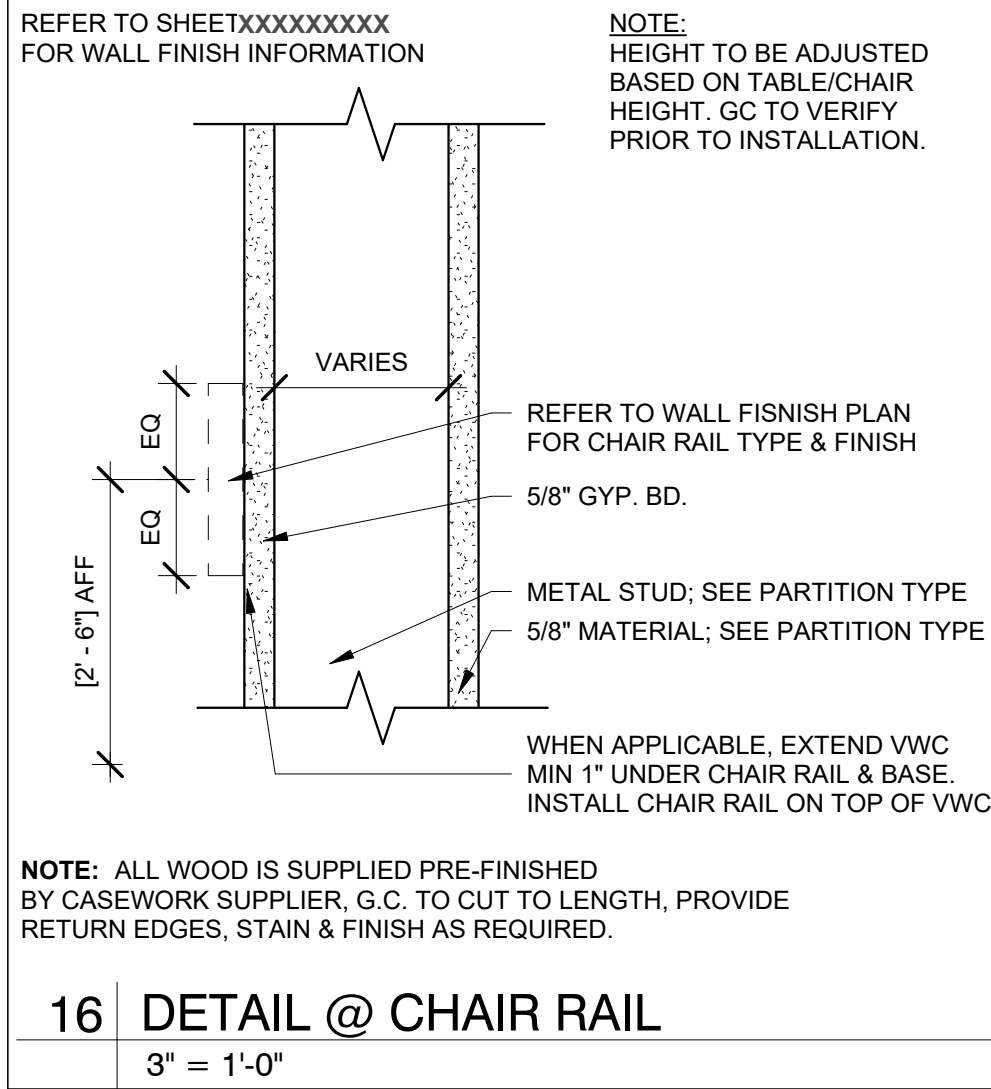
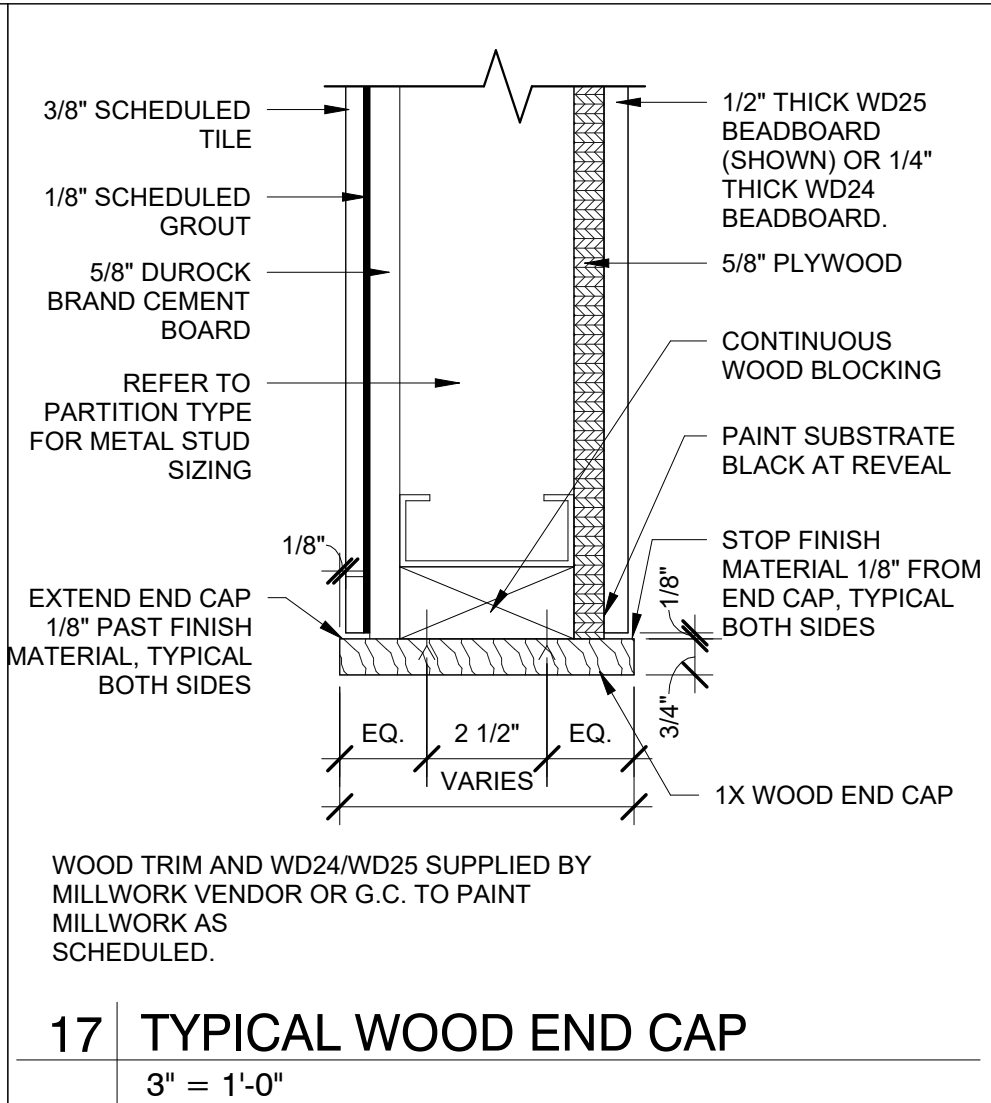
Sheet Number:

A420

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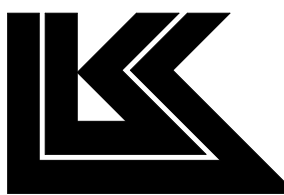


Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

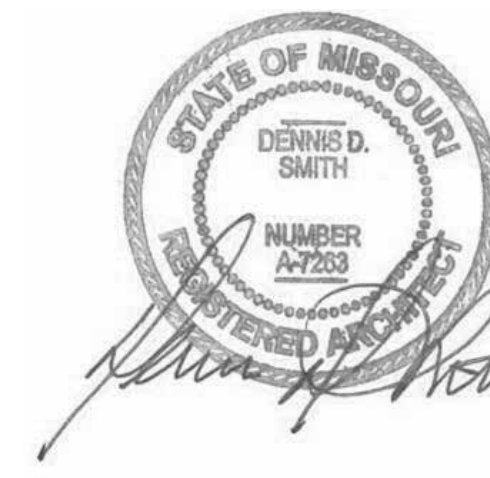


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Professional Seal:



Project Title:

**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

INTERIOR DETAILS

Project Number:

22169

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Issue Date:

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DPM:

DM

Sheet Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DPM:

DM

CPM:

CPM

A500

**NOTE:**

VERIFY EXACT REQUIREMENTS WITH OVEN SUPPLIER.

PROVIDE HEAVY DUTY RECEPTACLE ROUGH-IN FOR CONNECTION TO DECK OVEN HOOD EXHAUST. 20 AMP CIRCUIT. 208V-1PH. (3) #12 IN 3/4" CONDUIT. PROVIDE TWIST-LOCK TYPE QUICK DISCONNECT CONNECTION. [WHERE REQUIRED, FOR USE WITH STANDARD DECK OVEN FAN]

PROVIDE HEAVY DUTY RECEPTACLE ROUGH-IN FOR CONNECTION TO EACH DECK OVEN (TYPICAL OF 2). 30 AMP CIRCUIT, 208V-3PH. (4) #10 IN 1" CONDUIT.

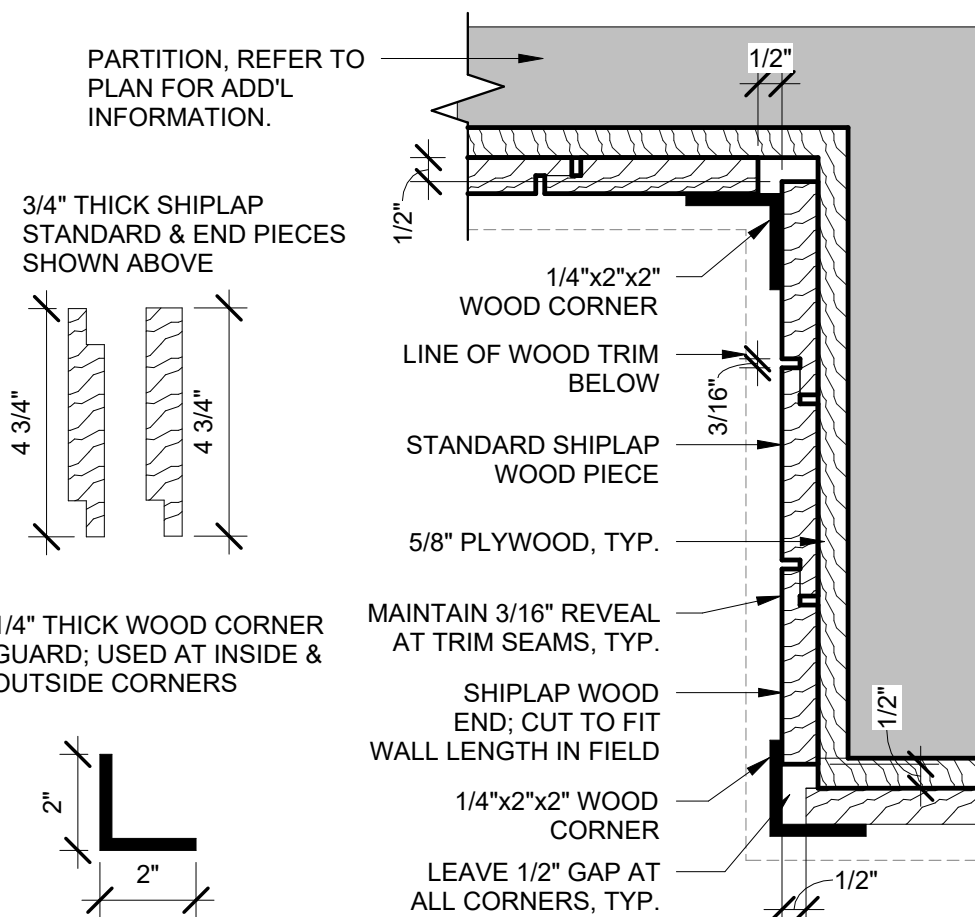
PROVIDE HEAVY DUTY CORD AND PLUG (30 AMP) CONNECTION AT EACH OVEN (TYPICAL OF 2).

**DECK OVEN ELECTRICAL CONNECTIONS**

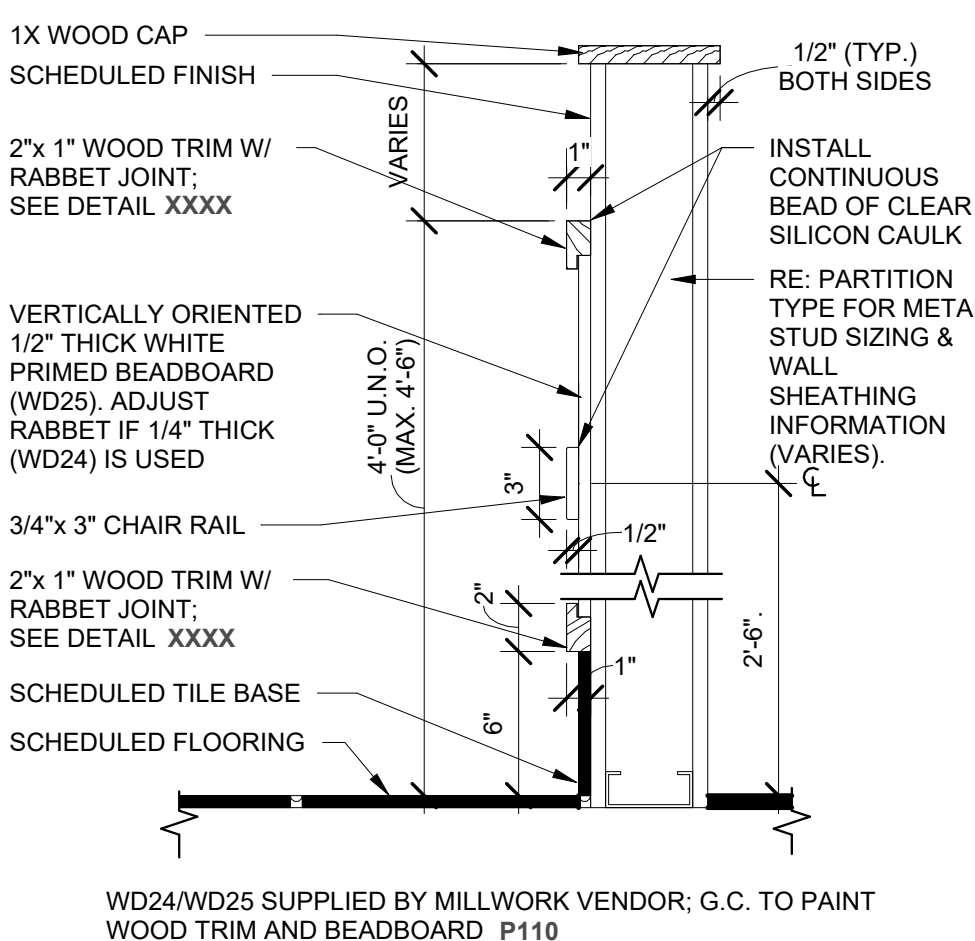
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**3 EQUIP-DECK OVEN DETAIL**

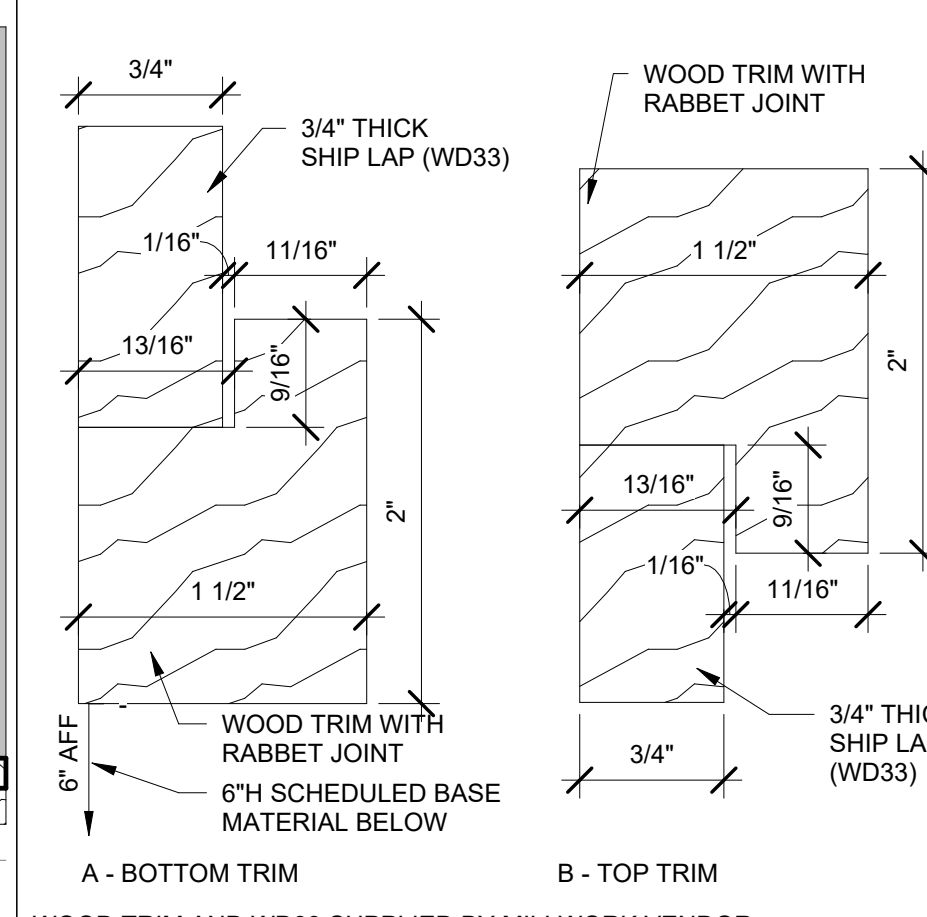
12" = 1'-0"

**13 SHIPLAP CORNER DETAIL**

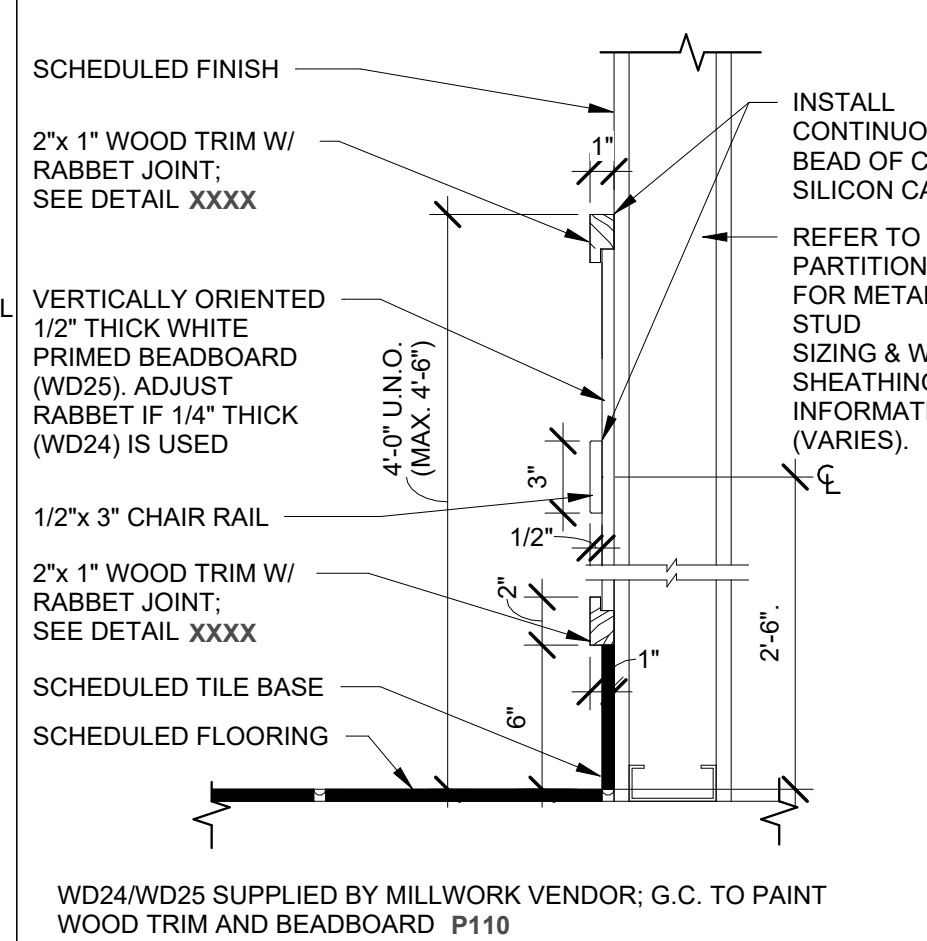
3" = 1'-0"

**14 WAINSCOT DTL @ PARTIAL HT WALL**

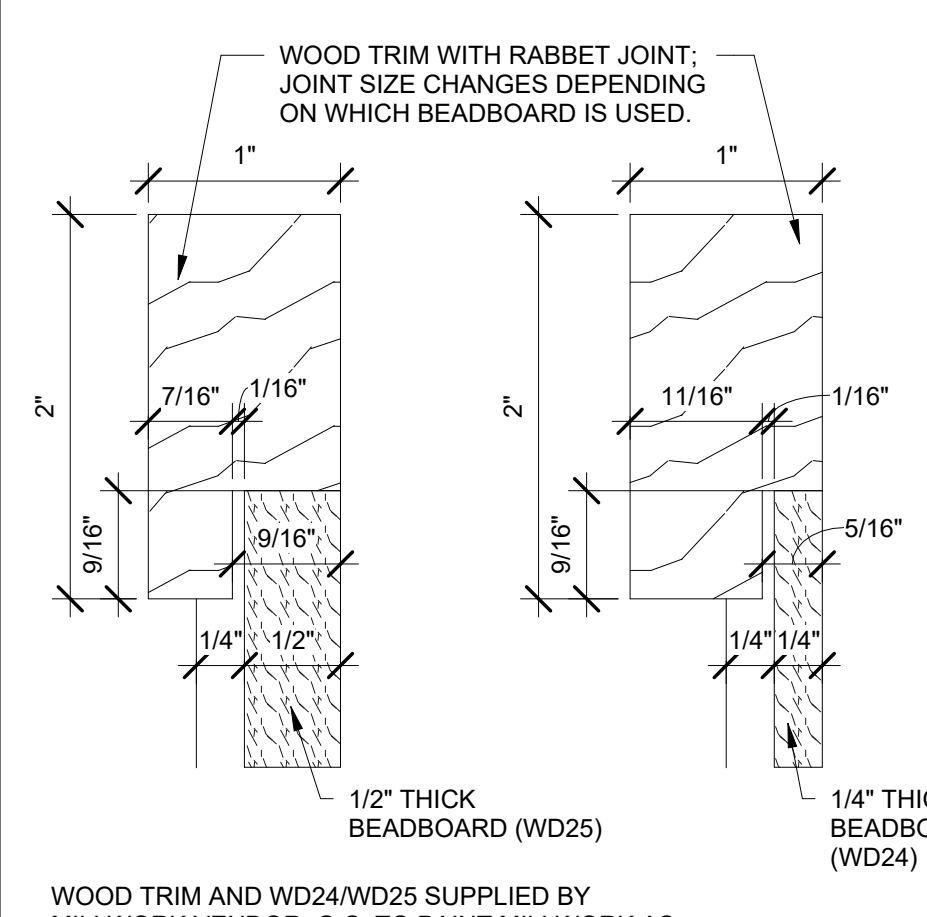
1 1/2" = 1'-0"

**9 RABBET DETAIL AT SHIPLAP**

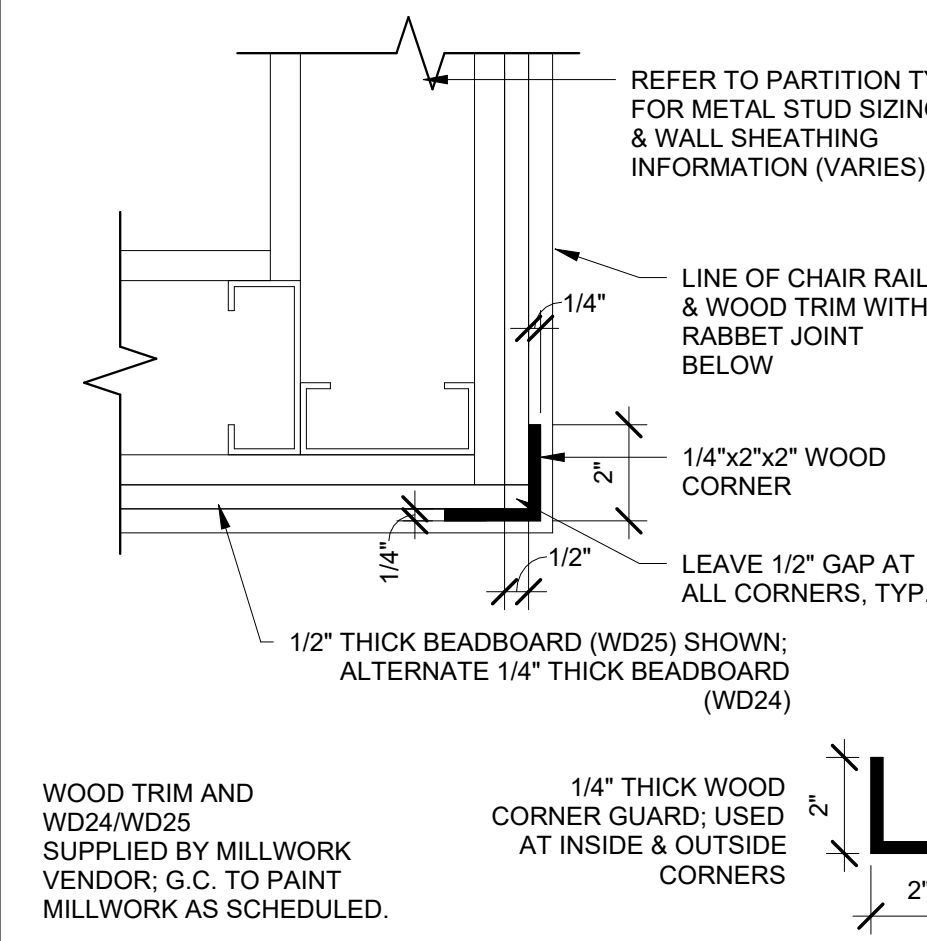
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**10 WAINSCOT DTL @ FULL HT WALL**

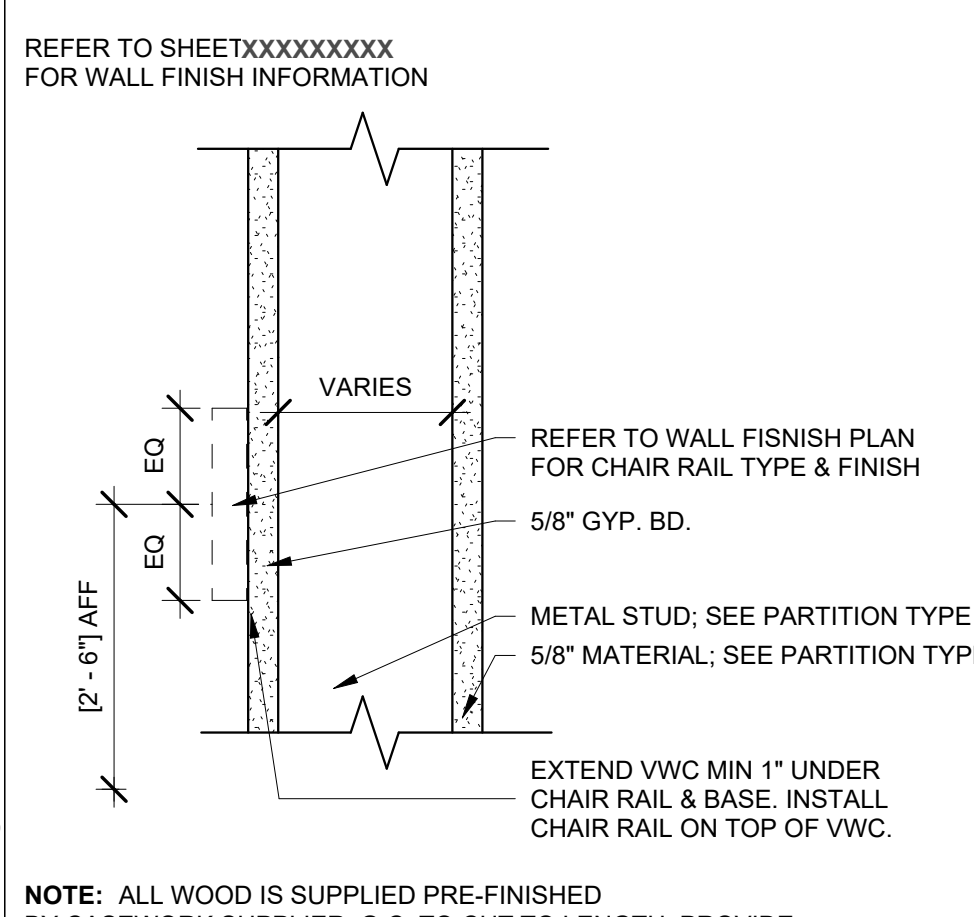
1 1/2" = 1'-0"

**5 WOOD TRIM RABBET DETAIL**

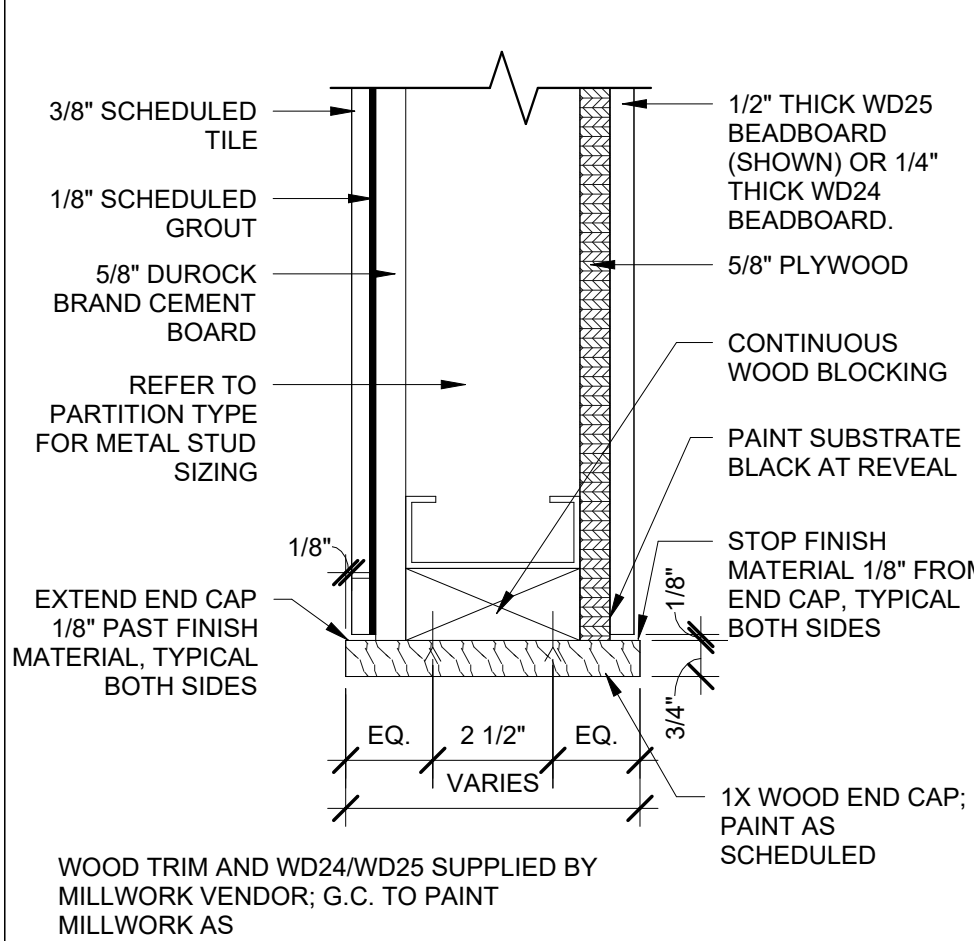
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**6 WAINSCOT CORNER DETAIL**

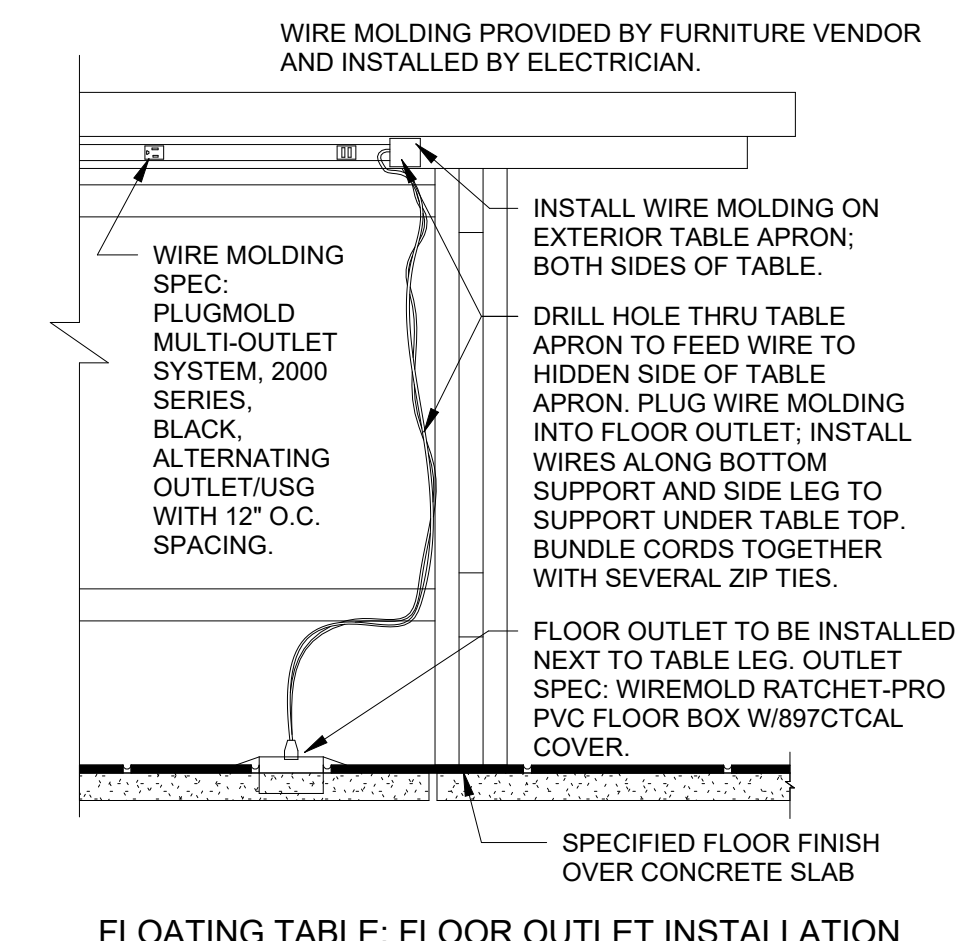
3" = 1'-0"

**1 DETAIL @ CHAIR RAIL**

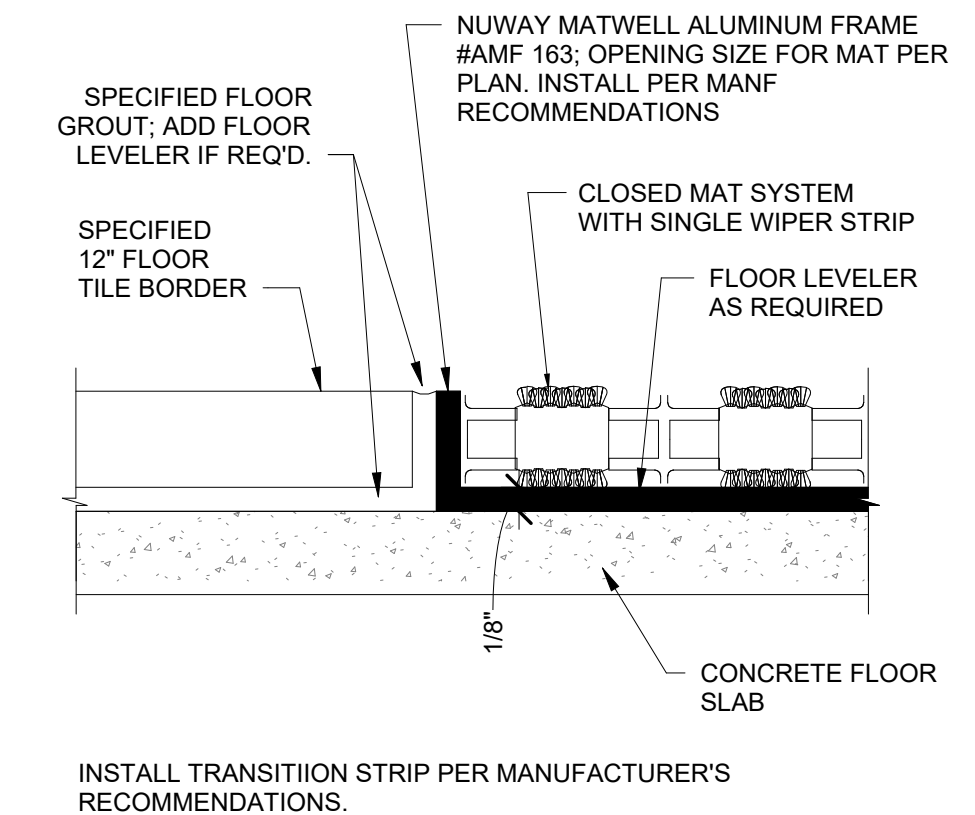
3" = 1'-0"

**2 TYPICAL WOOD END CAP**

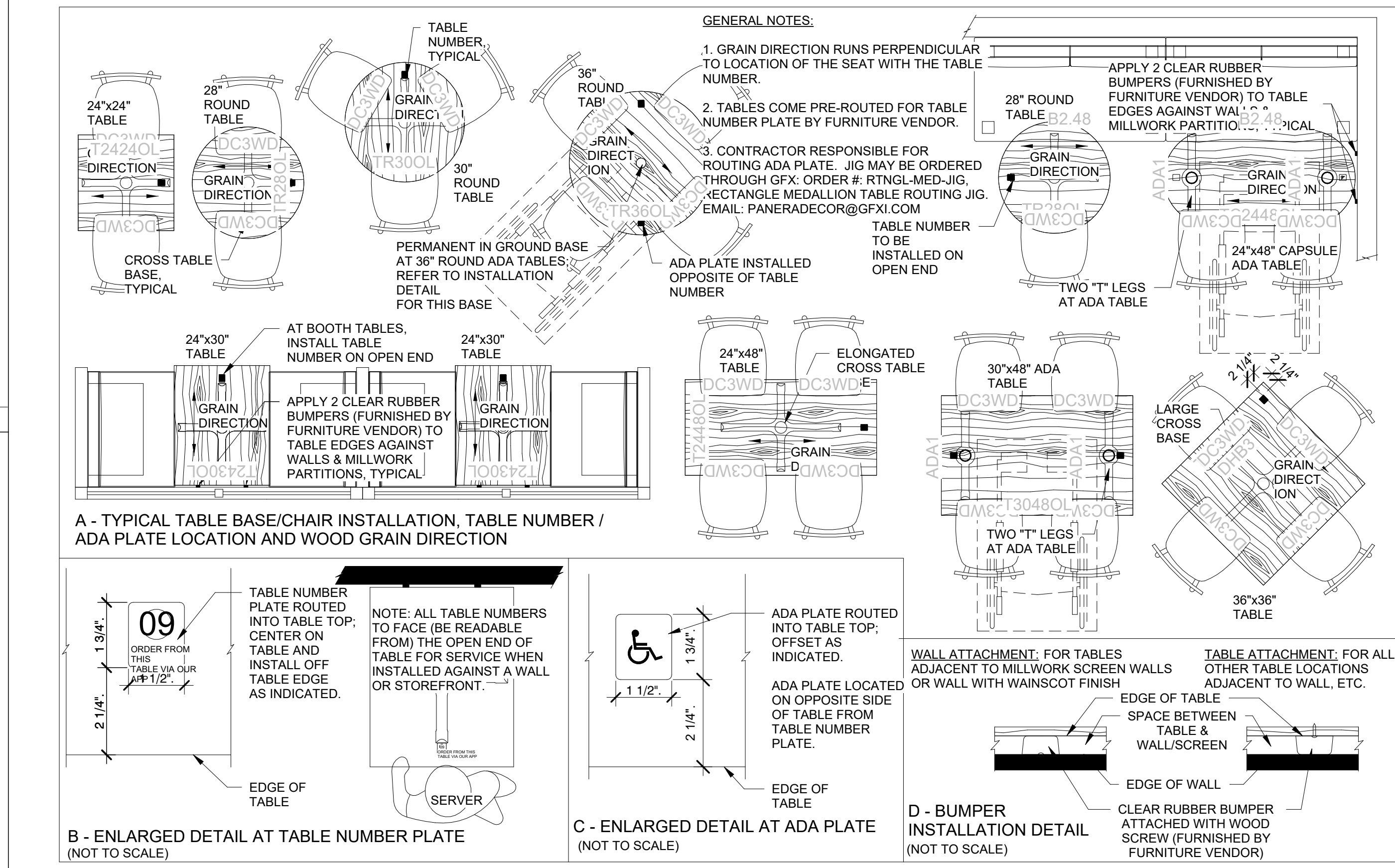
3" = 1'-0"

**15 COMMUNITY TABLE ELECTRIC**

1" = 1'-0"

**16 TILE/MAT SYSTEM TRANSITION**

12" = 1'-0"

**12 DINING FURNITURE DETAILS**

1/2" = 1'-0"

Bakery-Cafe:

**22169****SYSTEM: G4 (ARIA)**

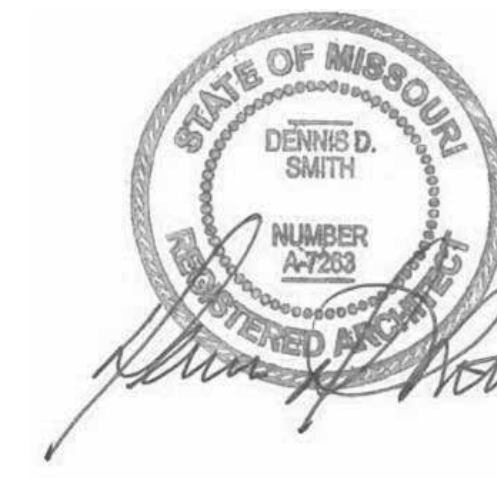
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1410 NE DOUGLAS ST  
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PROTOTYPE - NEW/CONSTRUCTION - SHELL



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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

**INTERIOR DETAILS**

Project Number:

Sheet Number:

22169

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DFM:

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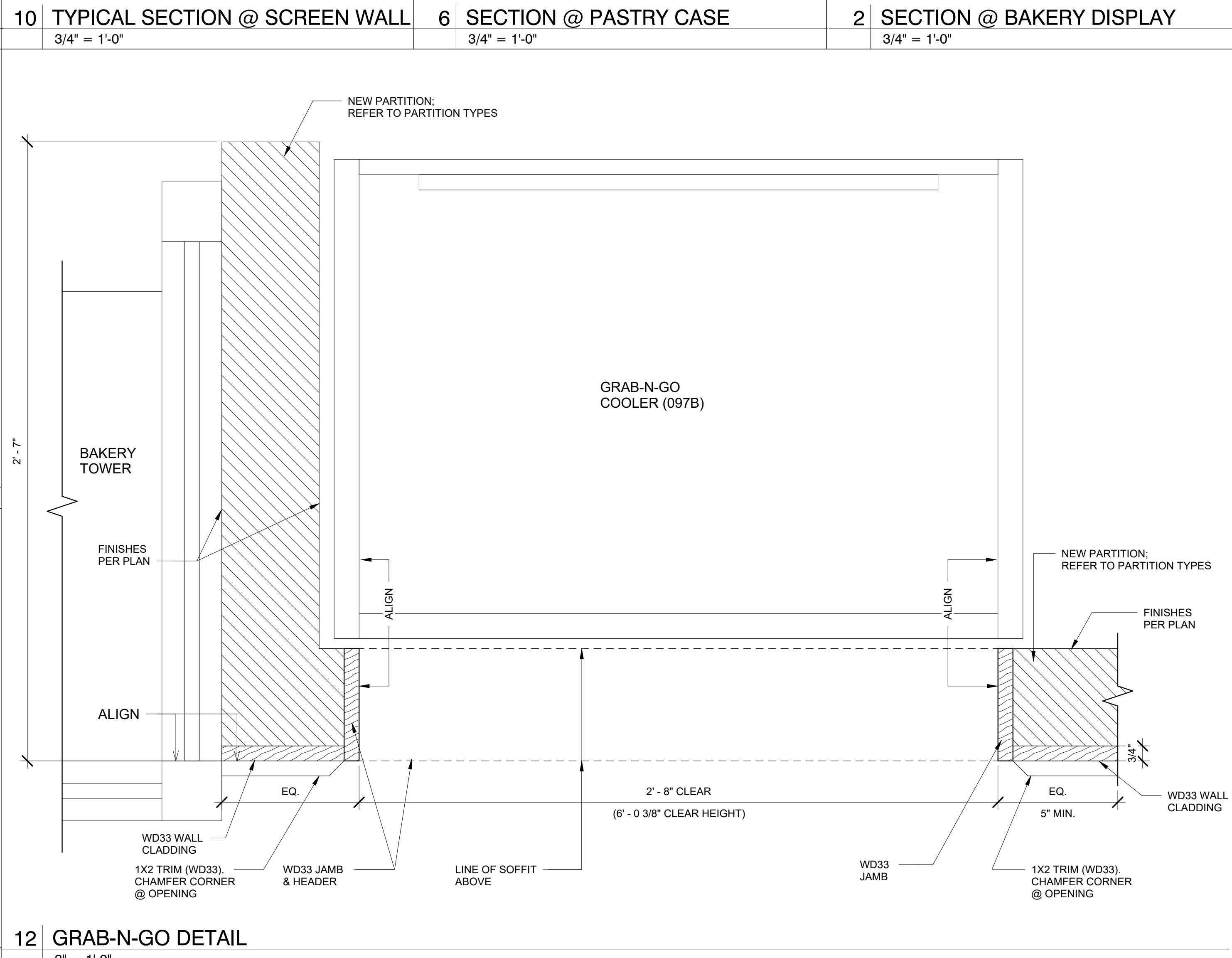
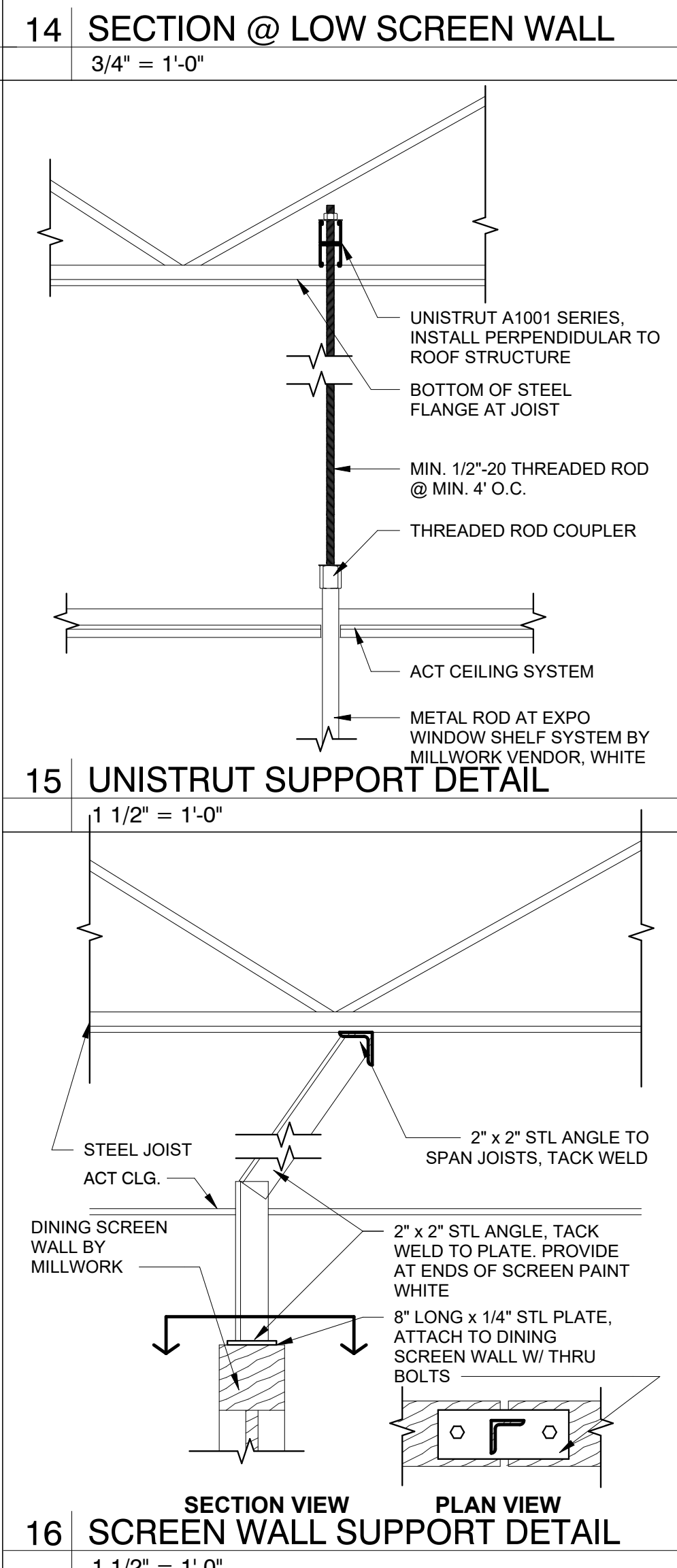
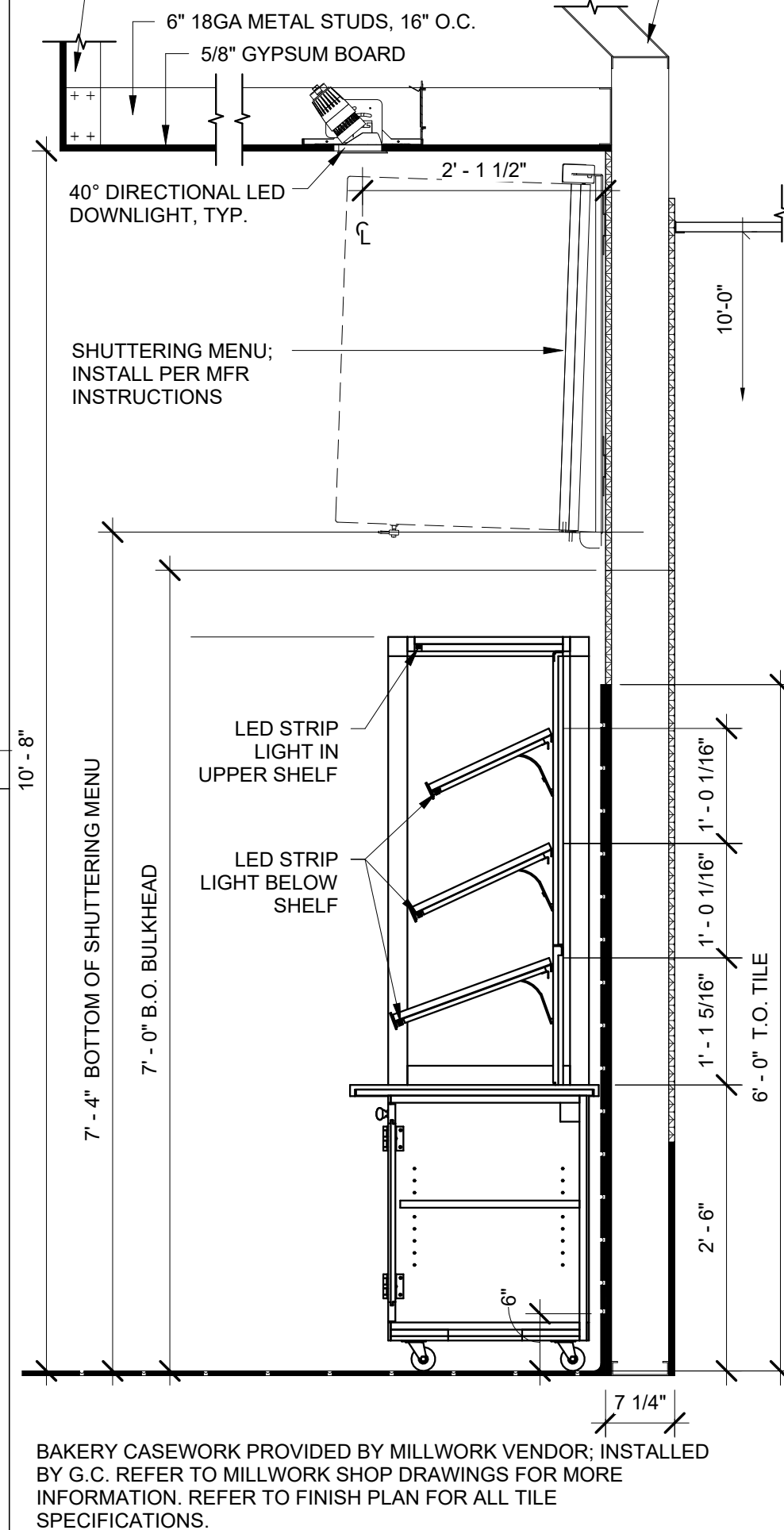
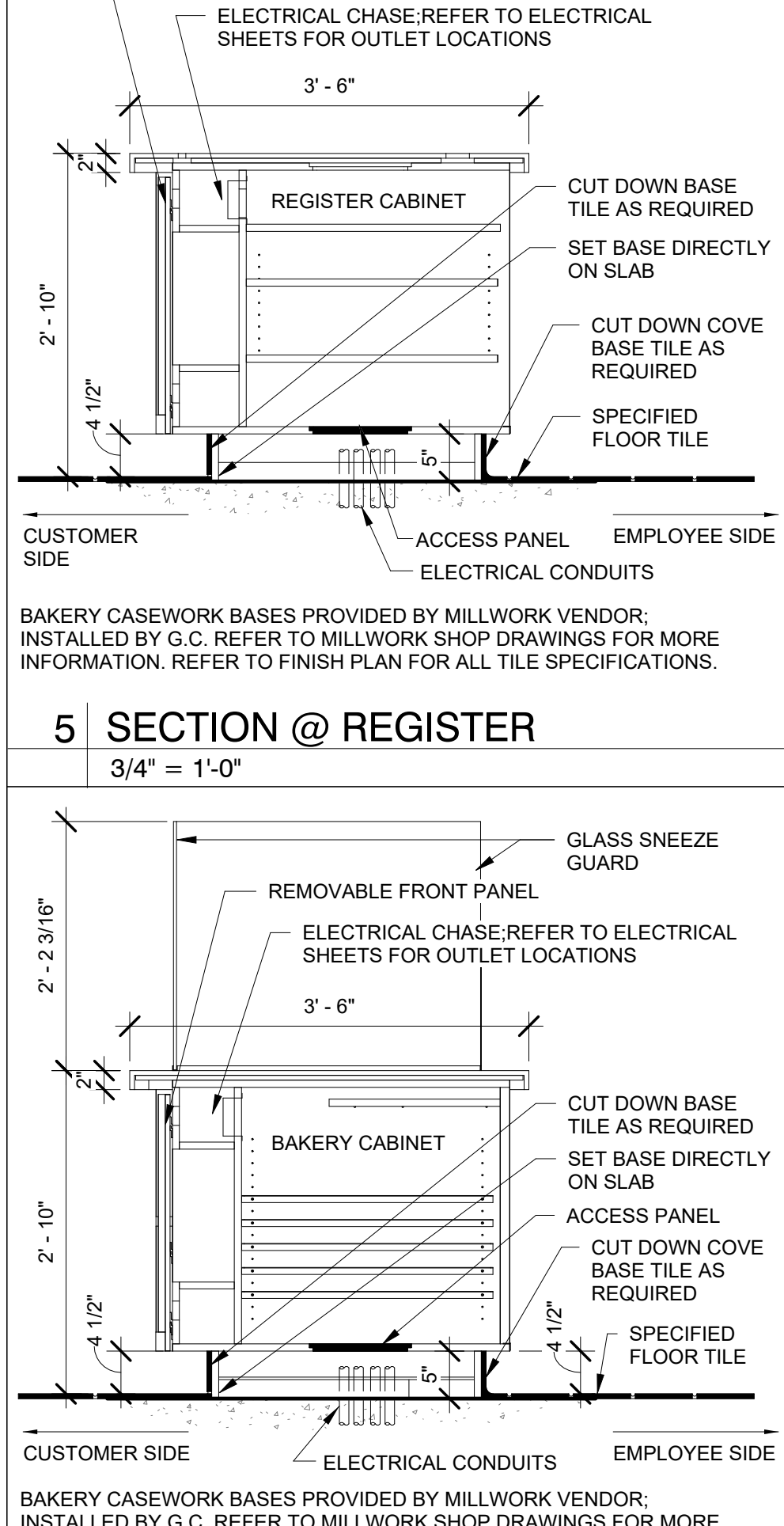
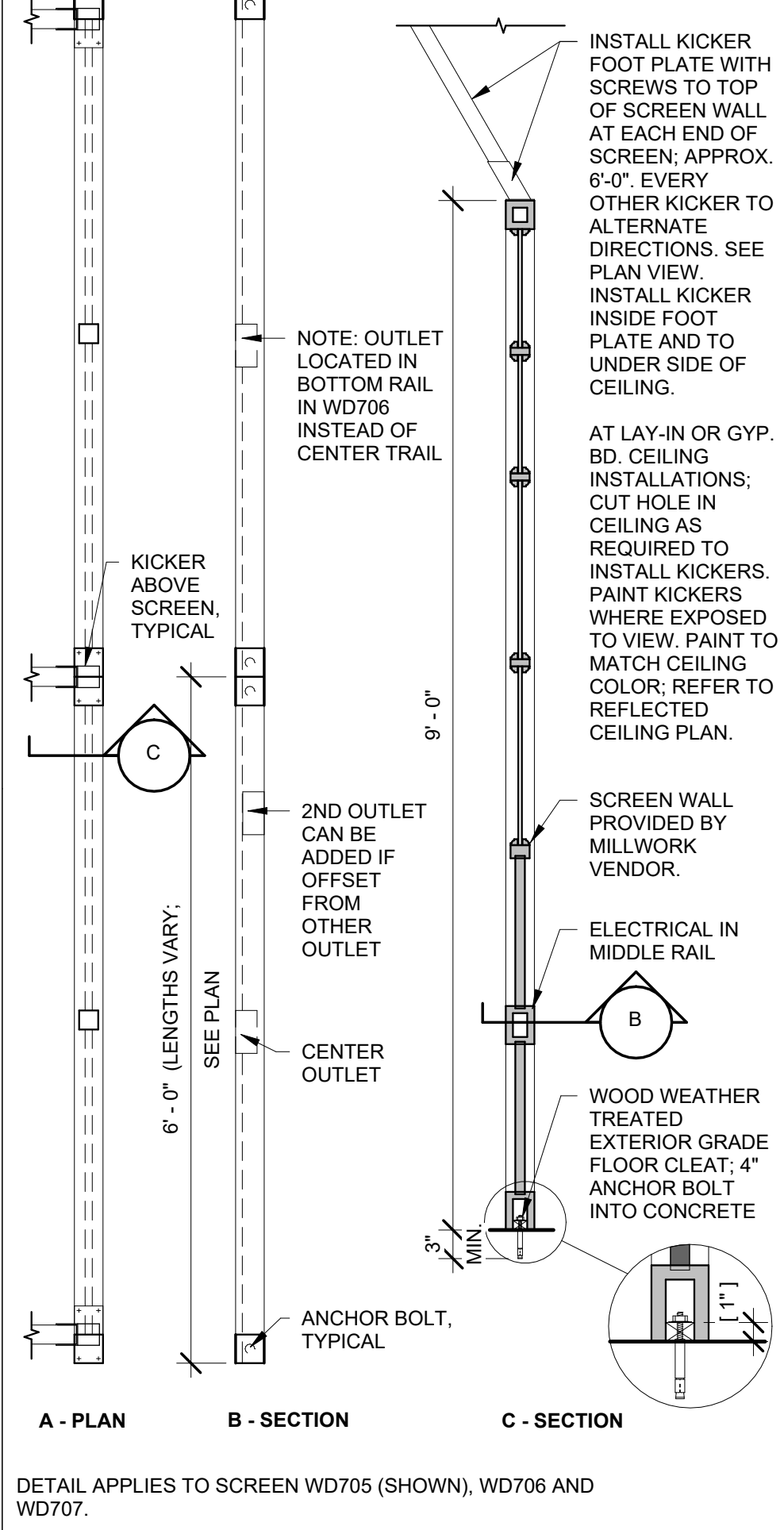
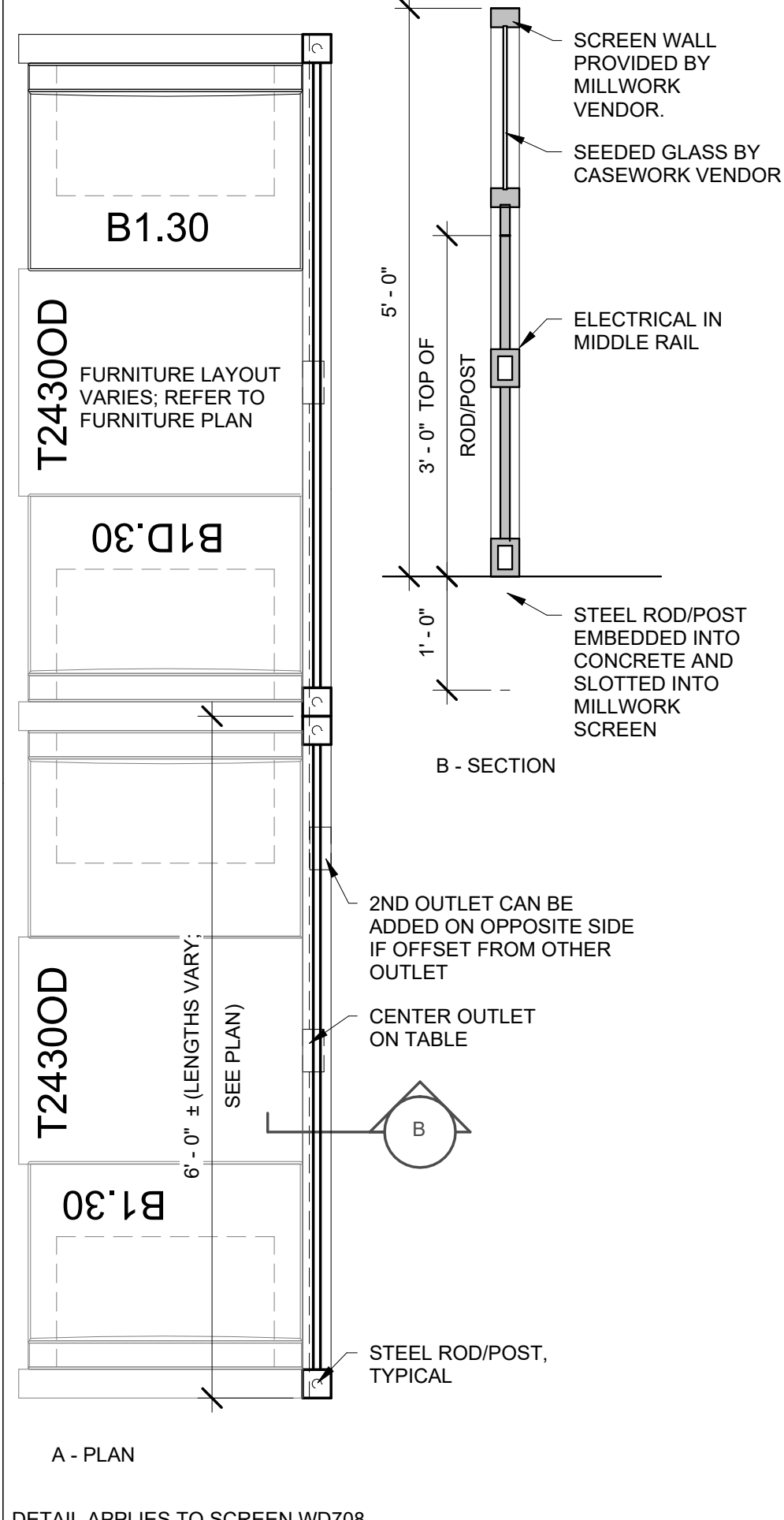
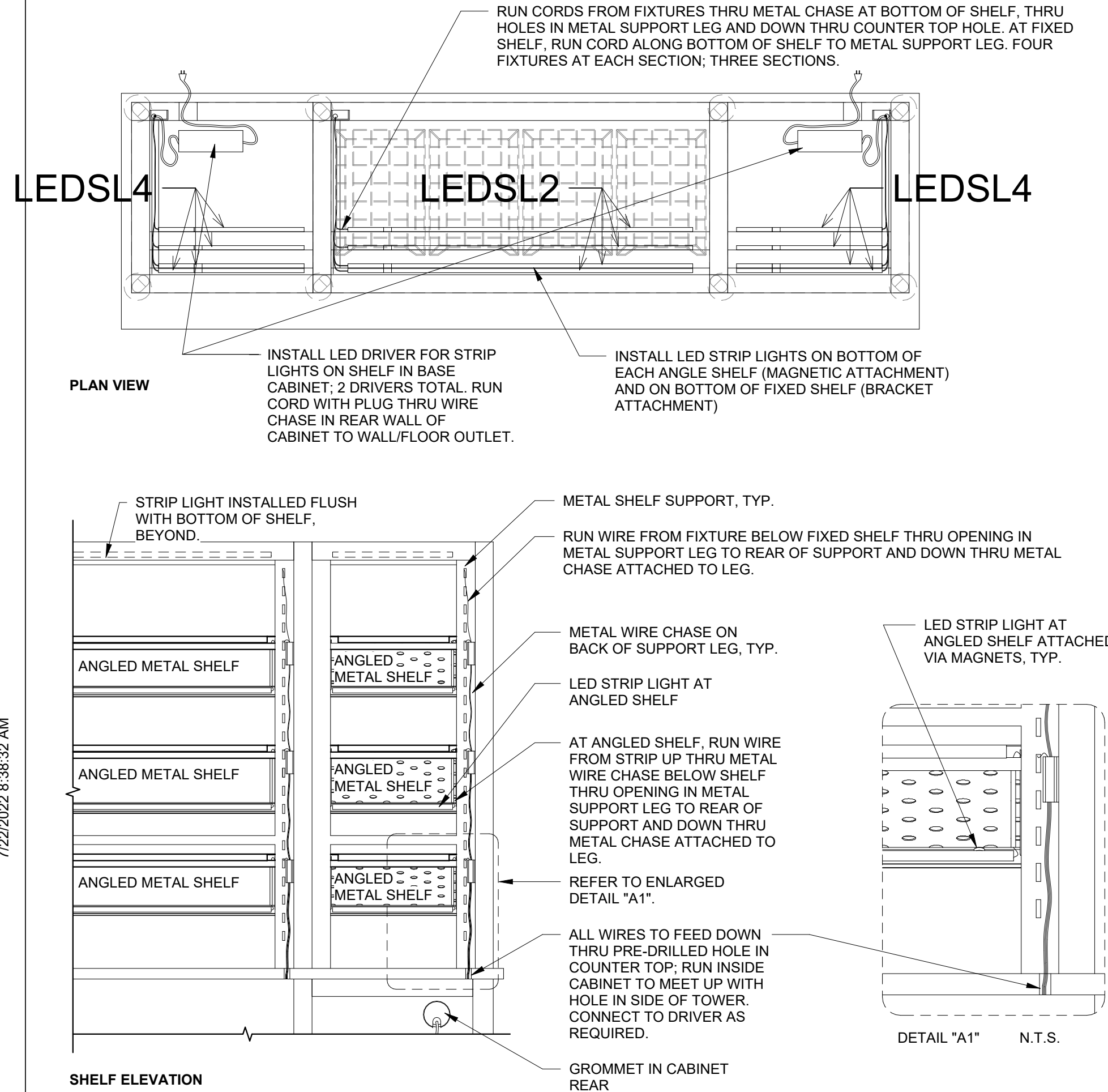
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**A501**



7/22/2022 8:38:32 AM



**Bakery-Cafe:**

**22169**

**SYSTEM: G4 (ARIA)**

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STATE OF MISSOURI  
DENNIS D. SMITH  
NUMBER A-7203  
REGISTERED ARCHITECT

Project Title:

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**Panera**  
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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

**CASEWORK SECTIONS & DETAILS**

Project Number: 22169  
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Sheet Number: **A510**

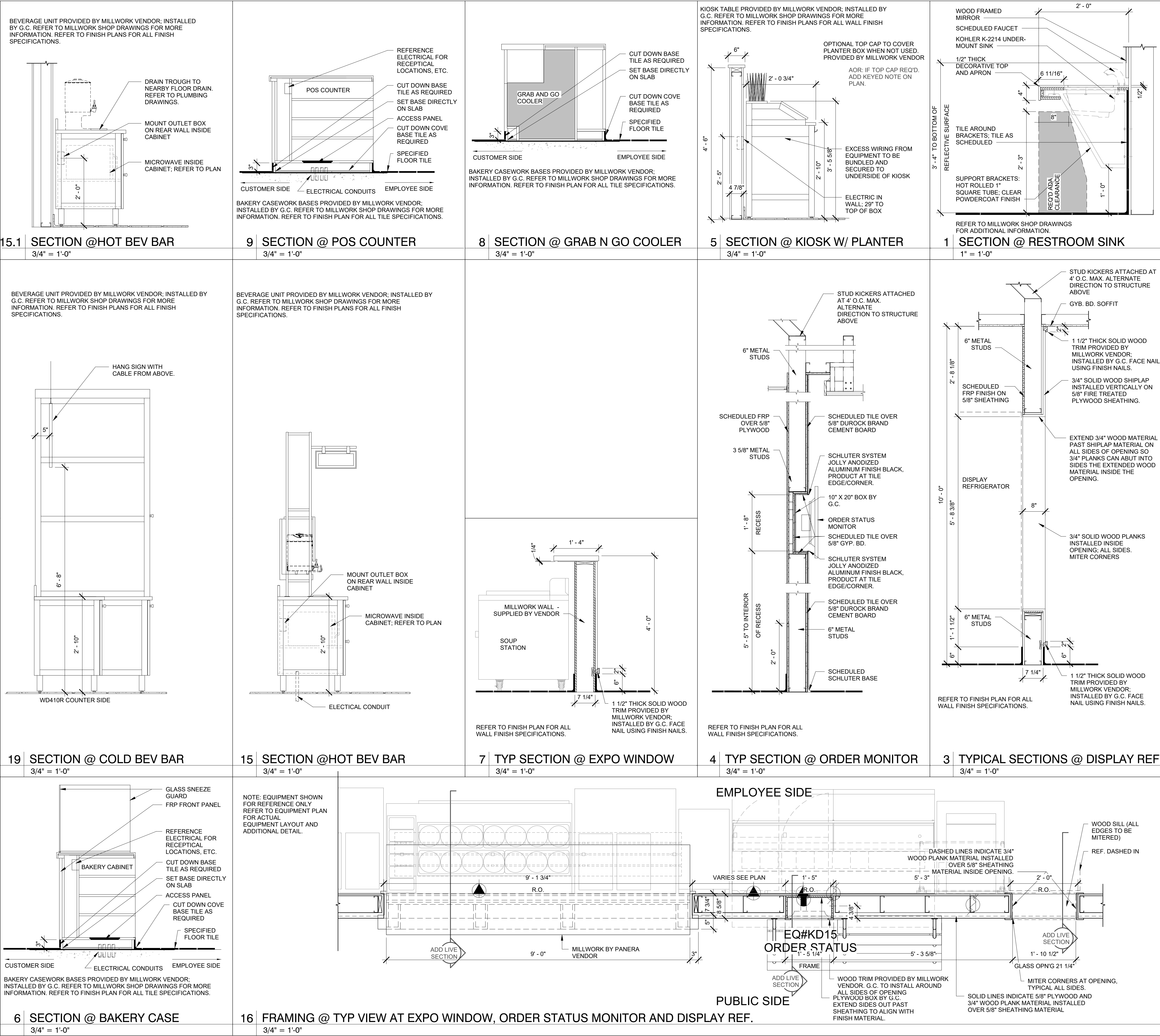
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CONSULTATION: SEEING... REFER TO RCP

PR 2021.03.11



**Bakery-Cafe:**

# 22169

**SYSTEM: G4 (ARIA)**  
Project Team:

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PROTOTYPE - NEW CONSTRUCTION - SHELL

## Bakery Cafe#2406

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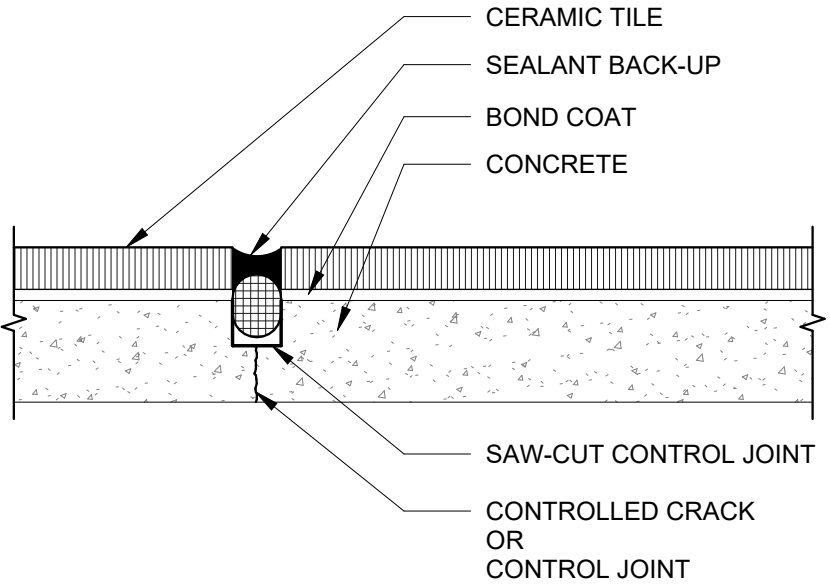
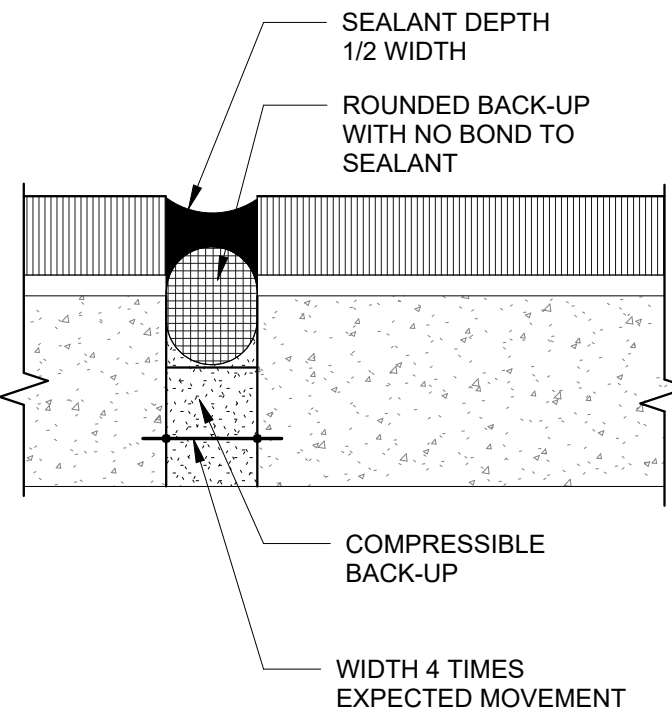
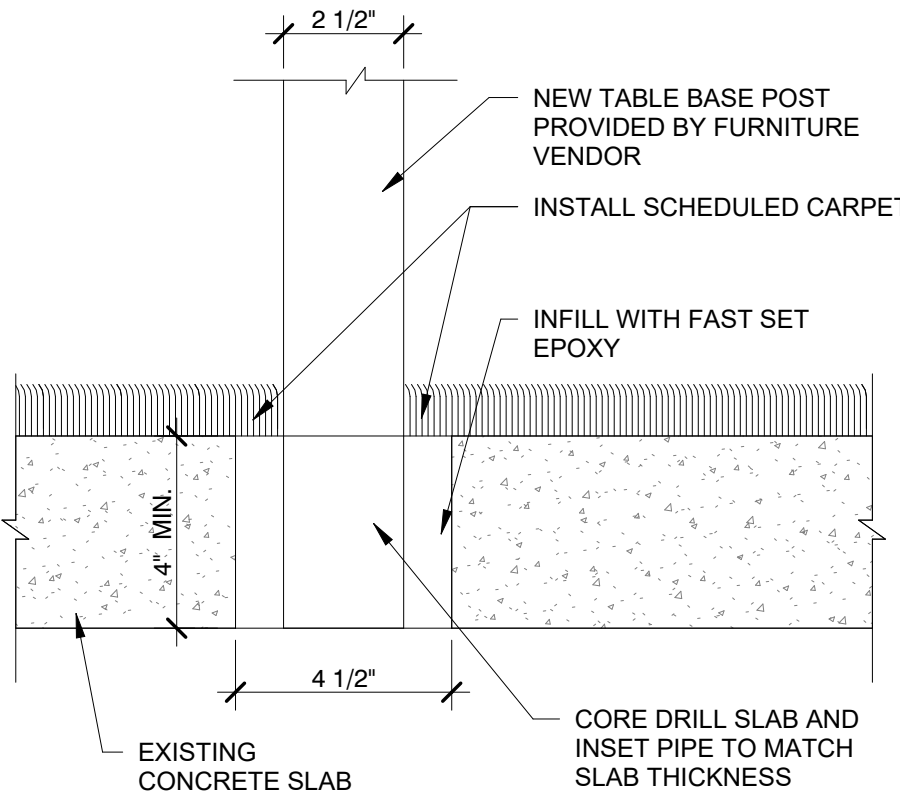
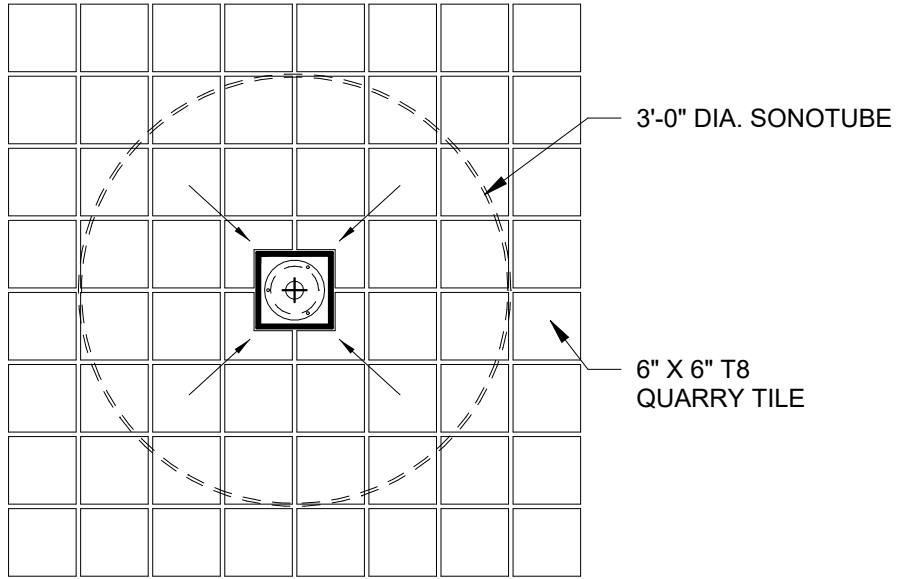
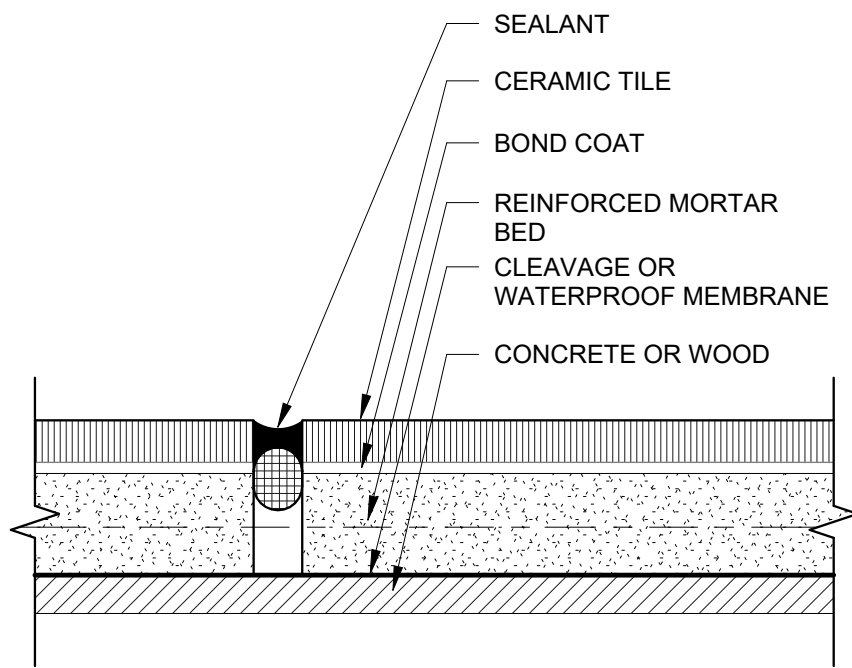
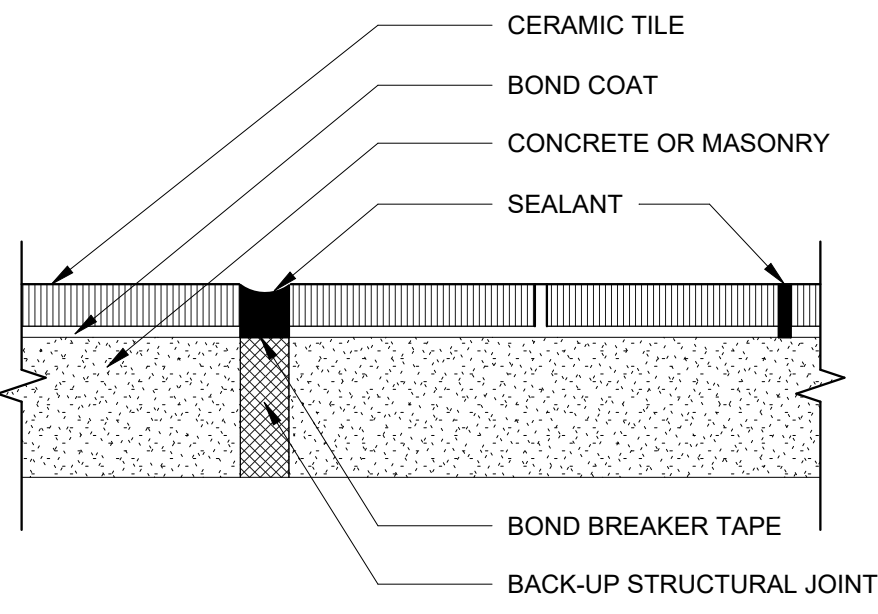
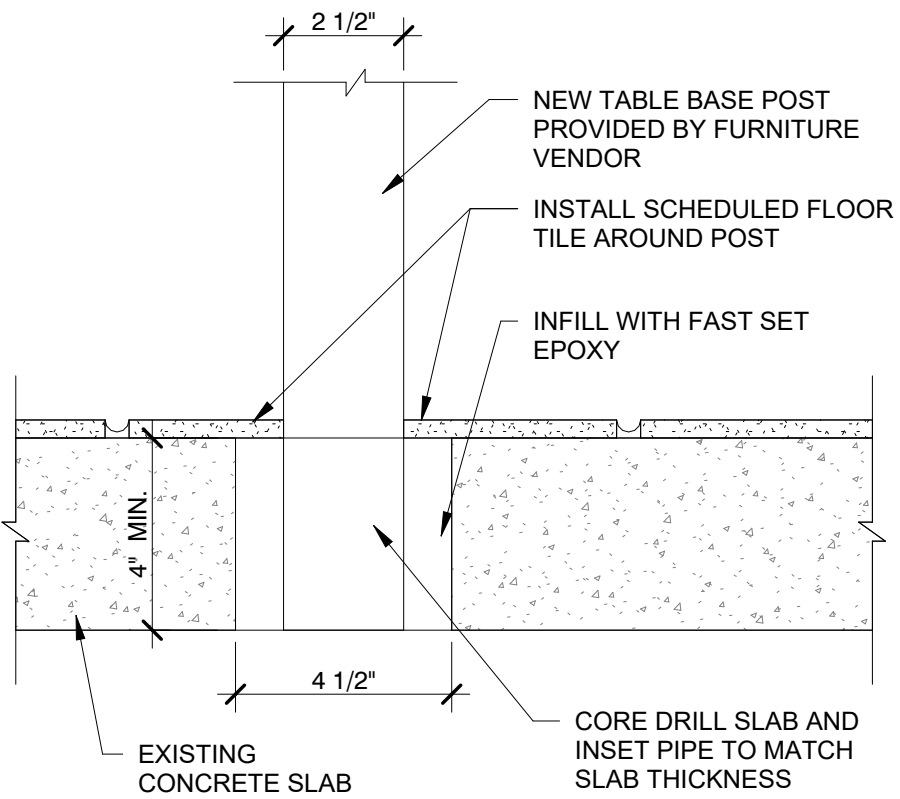
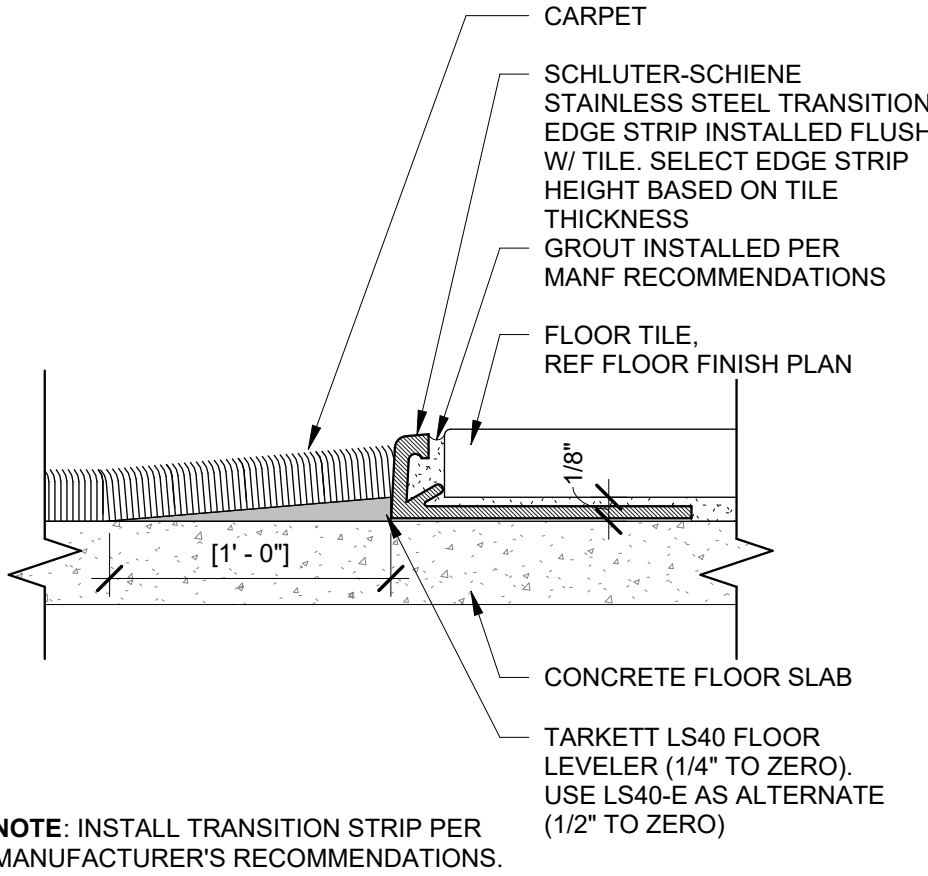
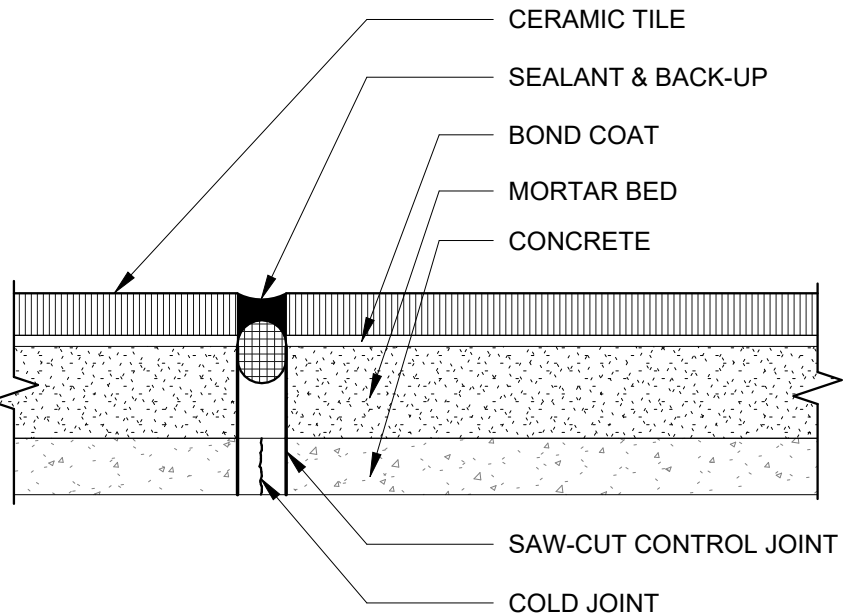
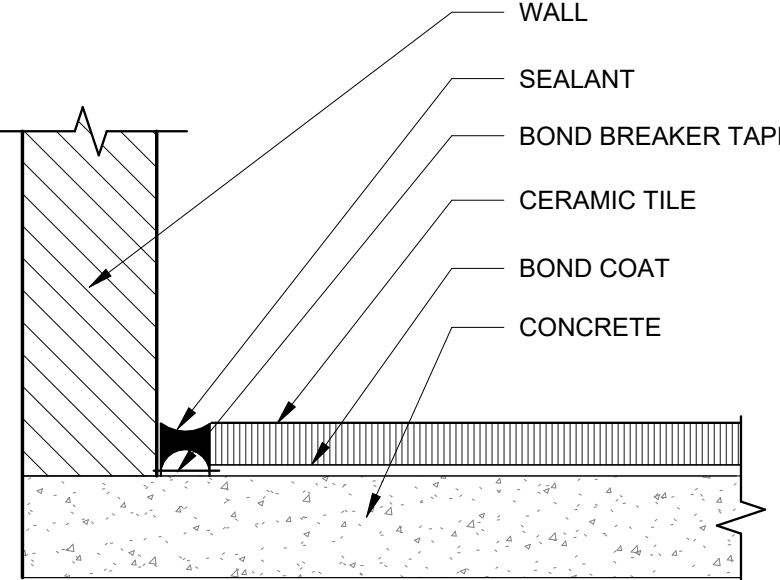
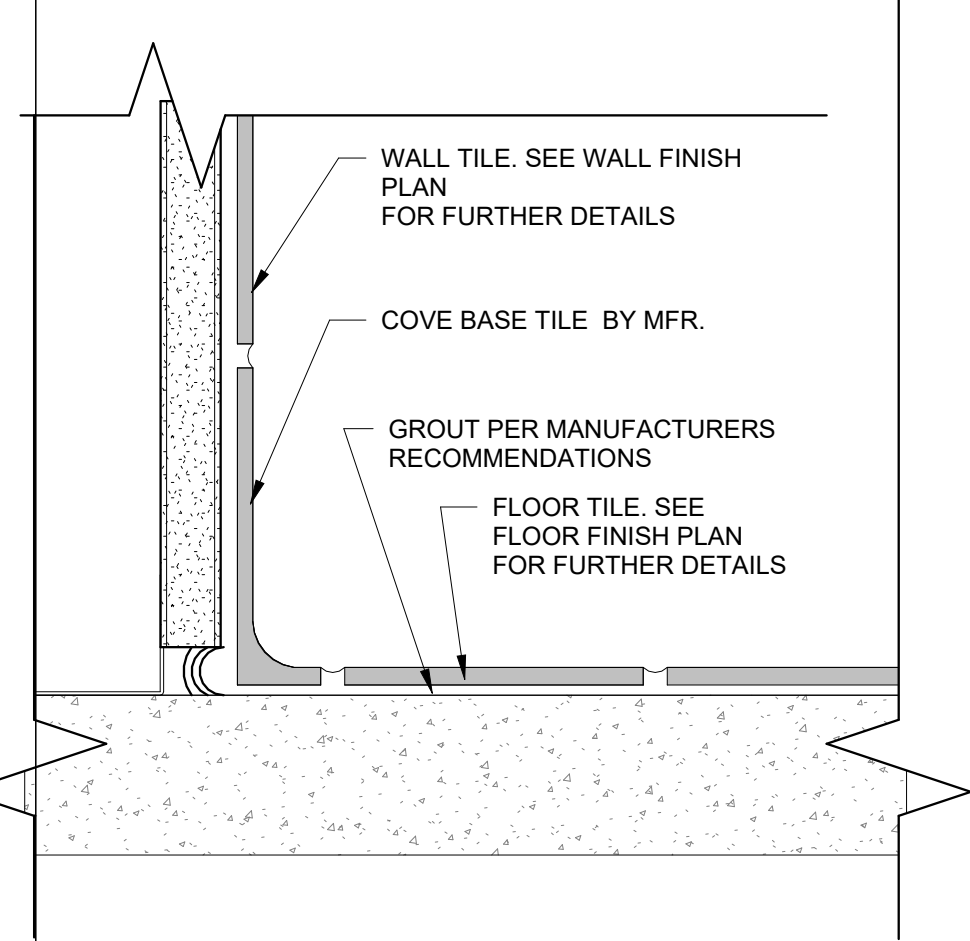
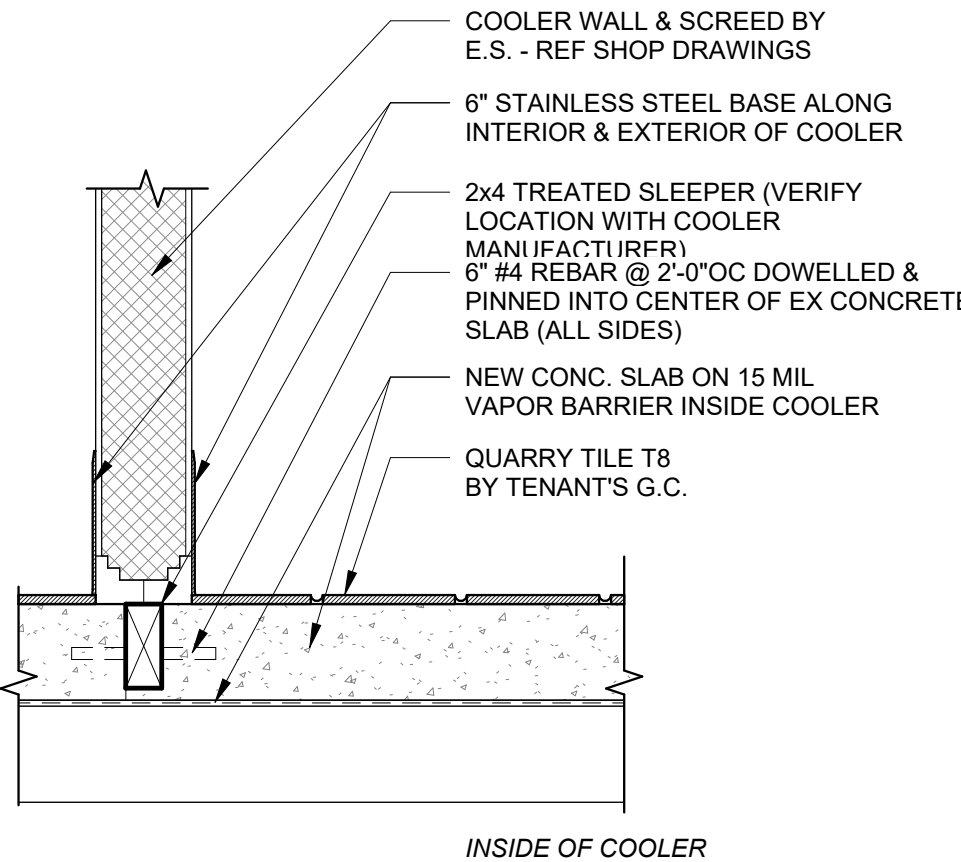
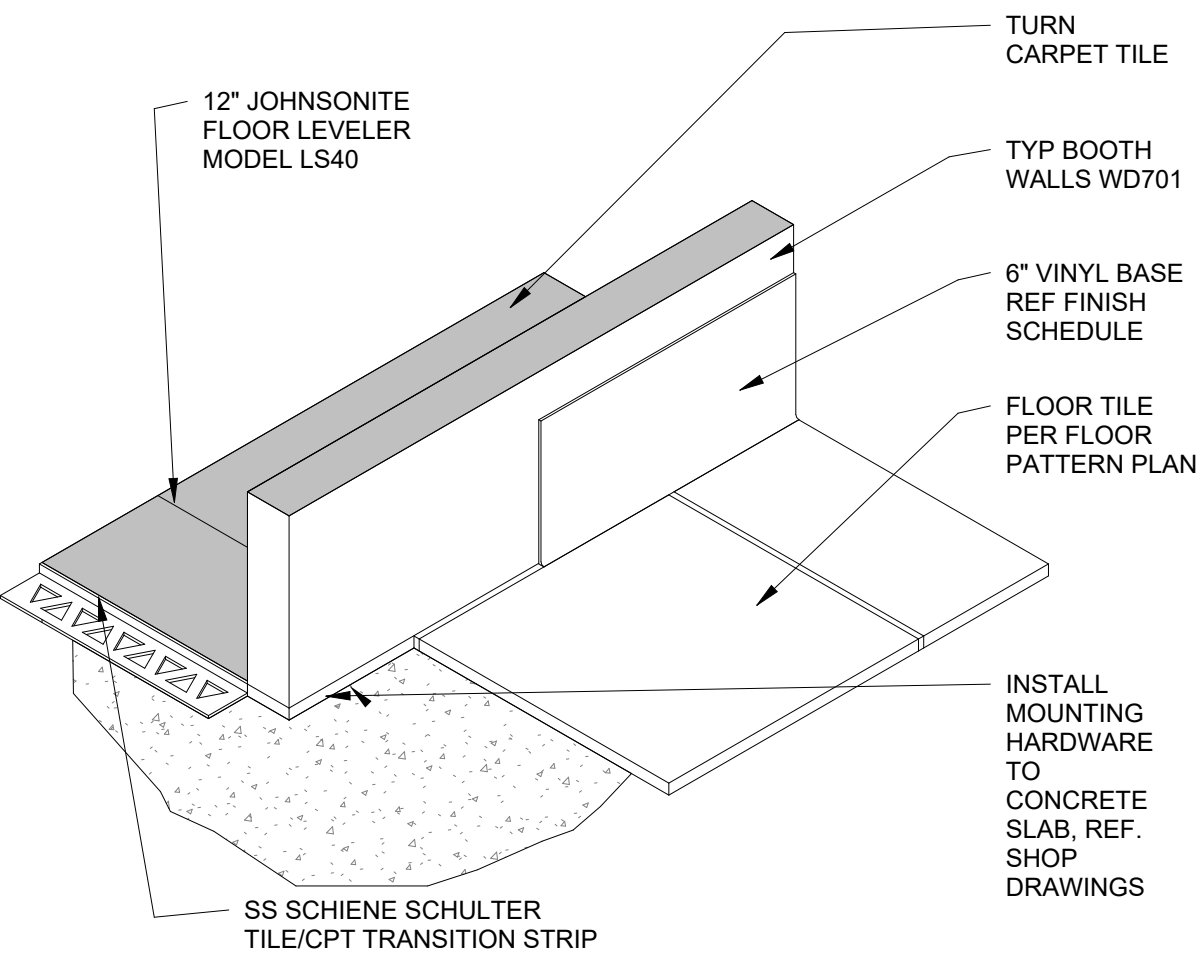
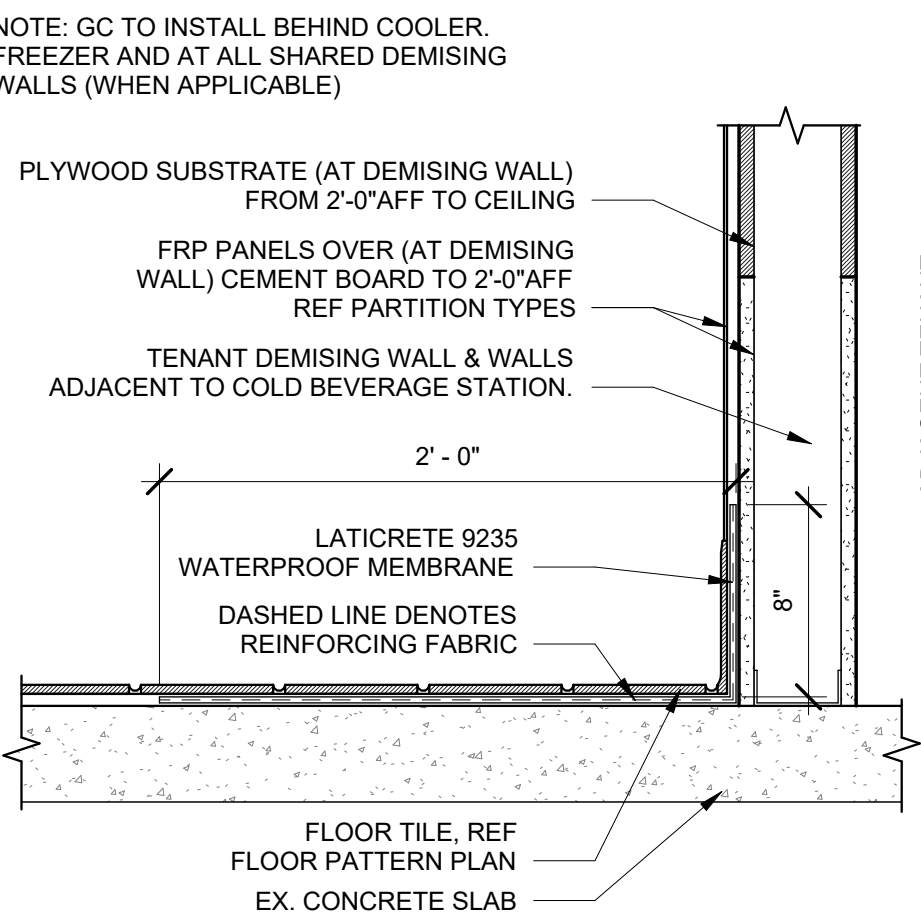
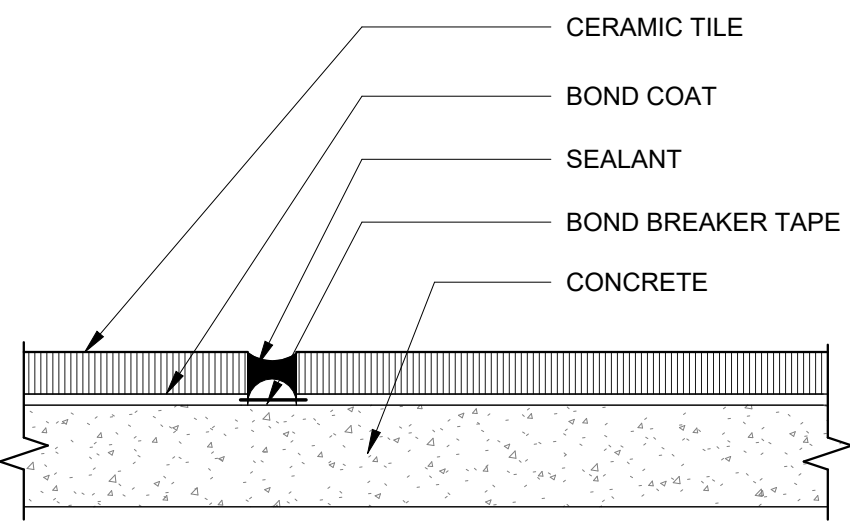
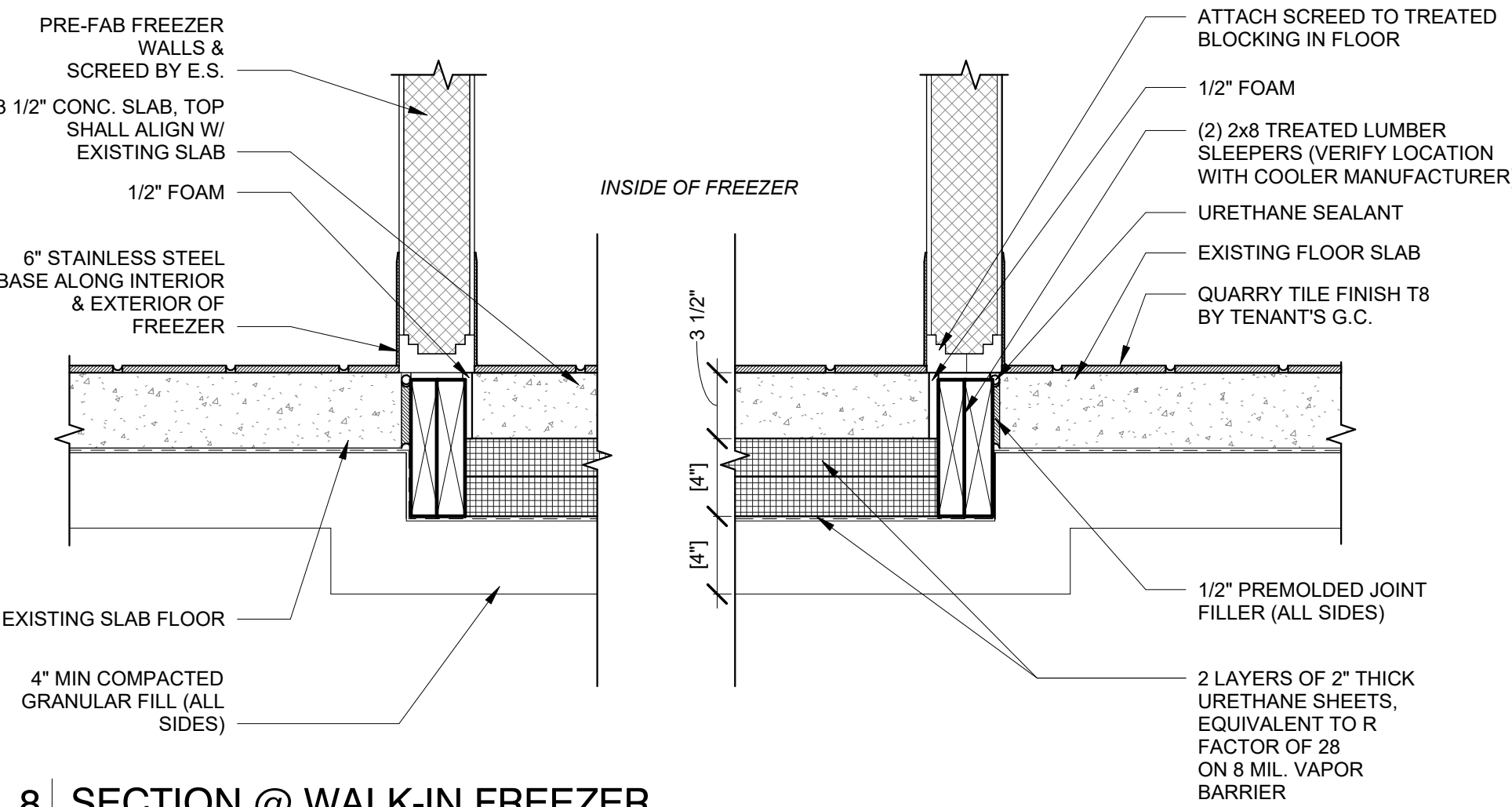
No.	Description	Date
1	PERMIT SET - TI	7/18/2022

**CASEWORK SECTIONS & DETAILS**

Project Number: 22169  
Sheet Number: **A511**  
Drawn By:  
Author:  
Issue Date: 07/05/2022  
DPM: DM: CPM:  
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PR 2021.03.11

		 <p>CERAMIC TILE SEALANT BACK-UP BOND COAT CONCRETE SAW-CUT CONTROL JOINT CONTROLLED CRACK OR CONTROL JOINT</p>	 <p>SEALANT DEPTH 1/2 WIDTH ROUNDED BACK-UP WITH NO BOND TO SEALANT COMPRESSIBLE BACK-UP WIDTH 4 TIMES EXPECTED MOVEMENT</p>	 <p>NOTE: PROVIDE WHERE INDICATED ON FLOOR PLAN 2 1/2" NEW TABLE BASE POST PROVIDED BY FURNITURE VENDOR INSTALL SCHEDULED CARPET INFILL WITH FAST SET EPOXY 4" MIN. 4 1/2" EXISTING CONCRETE SLAB CORE DRILL SLAB AND INSET PIPE TO MATCH SLAB THICKNESS</p>	 <p>NOTE: INSTALL 3'-0" DIA. SONOTUBE CENTERED ON FLOOR DRAIN. POUR CONCRETE FLOOR SLAB OUTSIDE OF SONOTUBE. ONCE CONCRETE CURES, REMOVE SONOTUBE &amp; POUR REMAINING CONCRETE AROUND FLOOR DRAIN. SLOPE 1/4" PER FOOT TOWARDS DRAIN. 3'-0" DIA. SONOTUBE 6" X 6" T8 QUARRY TILE</p>	<b>13</b> TYP. CONTRACTION JOINT 1" = 1'-0"	<b>9</b> TYP. EXPANSION JOINT 1" = 1'-0"	<b>5</b> ADA ROUND TABLE BASE DETAIL 3" = 1'-0"	<b>1</b> DETAIL @ FLOOR DRAIN 3/4" = 1'-0"	
		 <p>SEALANT CERAMIC TILE BOND COAT REINFORCED MORTAR BED CLEAVAGE OR WATERPROOF MEMBRANE CONCRETE OR WOOD</p>	 <p>CERAMIC TILE BOND COAT CONCRETE OR MASONRY SEALANT BOND BREAKER TAPE BACK-UP STRUCTURAL JOINT</p>	 <p>NOTE: PROVIDE WHERE INDICATED ON FLOOR PLAN 2 1/2" NEW TABLE BASE POST PROVIDED BY FURNITURE VENDOR INSTALL SCHEDULED FLOOR TILE AROUND POST INFILL WITH FAST SET EPOXY 4" MIN. 4 1/2" EXISTING CONCRETE SLAB CORE DRILL SLAB AND INSET PIPE TO MATCH SLAB THICKNESS</p>		<b>14</b> TYP. EXPANSION JOINT 1" = 1'-0"	<b>10</b> TYP. ISOLATION/EXPANSION JOINT 1" = 1'-0"	<b>6</b> ADA ROUND TABLE BASE DETAIL 3" = 1'-0"		
	 <p>CARPET SCHLUTER-SCHIENE STAINLESS STEEL TRANSITION EDGE STRIP INSTALLED FLUSH W/ TILE. SELECT EDGE STRIP HEIGHT BASED ON TILE THICKNESS. GROUT INSTALLED PER MANF. RECOMMENDATIONS FLOOR TILE, REF. FLOOR FINISH PLAN 1/8" CONCRETE FLOOR SLAB TARKETT LS40 FLOOR LEVELER (1/4" TO ZERO). USE LS40-E AS ALTERNATE (1/2" TO ZERO) NOTE: INSTALL TRANSITION STRIP PER MANUFACTURER'S RECOMMENDATIONS.</p>	 <p>CERAMIC TILE SEALANT &amp; BACK-UP BOND COAT MORTAR BED CONCRETE SAW-CUT CONTROL JOINT COLD JOINT</p>	 <p>WALL SEALANT BOND BREAKER TAPE CERAMIC TILE BOND COAT CONCRETE</p>	 <p>WALL TILE. SEE WALL FINISH PLAN FOR FURTHER DETAILS COVE BASE TILE BY MFR. GROUT PER MANUFACTURER'S RECOMMENDATIONS FLOOR TILE. SEE FLOOR FINISH PLAN FOR FURTHER DETAILS</p>	 <p>COOLER WALL &amp; SCREED BY E.S. - REF. SHOP DRAWINGS 6" STAINLESS STEEL BASE ALONG INTERIOR &amp; EXTERIOR OF COOLER 2x4 TREATED SLEEPER (VERIFY LOCATION WITH COOLER MANUFACTURER) 6" #4 REBAR @ 2'-0" OC DOWELED &amp; PINNED INTO CENTER OF EX. CONCRETE SLAB (ALL SIDES) NEW CONC. SLAB ON 15 MIL VAPOR BARRIER INSIDE COOLER QUARRY TILE T8 BY TENANT'S G.C. INSIDE OF COOLER</p>	<b>19</b> TILE/CARPET TRANSITION 12" = 1'-0"	<b>15</b> TYP. CONSTRUCTION JOINT 1" = 1'-0"	<b>11</b> TYP. PERIMETER JOINT 1" = 1'-0"	<b>7</b> COVE BASE TRIM 6" = 1'-0"	<b>3</b> SECTION @ WALK-IN COOLER 1 1/2" = 1'-0"
 <p>TURN CARPET TILE TYP. BOOTH WALLS WD701 6" VINYL BASE REF. FINISH SCHEDULE FLOOR TILE PER FLOOR PATTERN PLAN INSTALL MOUNTING HARDWARE TO CONCRETE SLAB, REF. SHOP DRAWINGS SS SCHIENE SCHULTER TILE/CPT TRANSITION STRIP 12" JOHNSONITE FLOOR LEVELER MODEL LS40</p>	 <p>NOTE: GC TO INSTALL BEHIND COOLER, FREEZER AND AT ALL SHARED DEMISING WALLS (WHEN APPLICABLE) PLYWOOD SUBSTRATE (AT DEMISING WALL) FROM 2'-0" AFF TO CEILING FRP PANELS OVER (AT DEMISING WALL) CEMENT BOARD TO 2'-0" AFF REF. PARTITION TYPES TENANT DEMISING WALL &amp; WALLS ADJACENT TO COLD BEVERAGE STATION. 2' - 0" LATICRETE 9235 WATERPROOF MEMBRANE DASHED LINE DENOTES REINFORCING FABRIC FLOOR TILE, REF. FLOOR PATTERN PLAN EX. CONCRETE SLAB ADJACENT TENANT</p>	 <p>CERAMIC TILE BOND COAT SEALANT BOND BREAKER TAPE CONCRETE</p>	 <p>PRE-FAB FREEZER WALLS &amp; SCREED BY E.S. 3 1/2" CONC. SLAB, TOP SHALL ALIGN W/ EXISTING SLAB 1/2" FOAM 6" STAINLESS STEEL BASE ALONG INTERIOR &amp; EXTERIOR OF FREEZER EXISTING SLAB FLOOR 4" MIN. COMPACTED GRANULAR FILL (ALL SIDES) INSIDE OF FREEZER ATTACH SCREED TO TREATED BLOCKING IN FLOOR 1/2" FOAM (2) 2x8 TREATED LUMBER SLEEPERS (VERIFY LOCATION WITH COOLER MANUFACTURER) URETHANE SEALANT EXISTING FLOOR SLAB QUARRY TILE FINISH T8 BY TENANT'S G.C. 1/2" PREMOLDED JOINT FILLER (ALL SIDES) 2 LAYERS OF 2" THICK URETHANE SHEETS, EQUIVALENT TO R FACTOR OF 28 ON 8 MIL VAPOR BARRIER</p>	<b>24</b> CARPET/TILE TRANSITION 1 1/2" = 1'-0"	<b>16</b> SECTION @ WATERPROOFING 1 1/2" = 1'-0"	<b>12</b> TYP. GENERIC MOVEMENT JOINT 1" = 1'-0"	<b>8</b> SECTION @ WALK-IN FREEZER 1 1/2" = 1'-0"			

Bakery-Cafe:

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Project Title:

PROTOTYPE - NEW CONSTRUCTION - SHELL

Bakery Cafe#2406

1410 NE DOUGLAS ST

LEES SUMMIT, MO 64086



Consultant Copyright Placeholder

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

FLOORING DETAILS

Project Number: 22169  
Drawn By:  
Author:  
Issue Date: 07/05/2022

Sheet Number: A520

DPM DM CPM



7/22/2022 8:53:28 AM

FINISH SCHEDULE				
NUMBER	DESCRIPTION	MANUFACTURER/DISTRIBUTOR	LOCATION	NOTES
CEILINGS				
ACT3	USG SHEETROCK BRAND LAY-IN PANEL CLIMAPLUS, 2' X 4' VINYL, FINE TEXTURED, W/ ALUMINUM CAP GRID # 3270 COLOR: WHITE	USG	BOH	
ACT10	ACOUSTIC CEILING TILE - CIRRUS SECOND LOOK III - 2'X4'X3/4 EDGE: BEVELED TEGULAR FOR 9/16" GRID -ITEM #511, COLOR : WHITE, SIZE: 2'W X 4'L X 3/4"TH	ARMSTRONG	FOH	SUSPENSION SYSTEM: SUPRAFINE 9/16" GRID
ACT11X	WOOD FINISH OVER SERVICE LINE (TBD)		SERVICE LINE	
ACTX	TEST CEILING, NOT ESTABLISHED	-	-	
BASE, BUMPERS, AND FRP				
B1	1" BUMPER: ECOFLEX TFC10000-012 W/ BA1000 ALUM BASE, ER1000-012 END CAPS, CN1000-012 90DEG CORNER, CX1000-12 45DEG CORNER. FINISH COLOR: BLACK	BOSTON RETAIL	BAKERY/KITCHEN	
B2	1" BUMPER: ECOFLEX TFC10000-193 W/ BA1000 ALUM BASE, ER1000-193 END CAPS, CN1000-193 90DEG CORNER, CX1000-193 45DEG CORNER. FINISH COLOR: POLAR WHITE	BOSTON RETAIL	BAKERY/KITCHEN	
B3	1" BUMPER: ECOFLEX TFC10000-018 W/ BA1000 ALUM BASE, ER1000-018 END CAPS, CN1000-018 90DEG CORNER, CX1000-018 45DEG CORNER. FINISH COLOR: SILVER GRAY	BOSTON RETAIL	BAKERY/KITCHEN	
FRP1	FIBERGLASS REINFORCED PANELS: GLASBORD-PIF (USE PCI IN CANADA), #85 WHITE, CLASS C FIRE RATED, THICKNESS 0.09", TEXTURE: PEBBLED EMBOSSED.	CRANE COMPOSITES	BACK OF HOUSE	
MB2	METAL COVE STRIP #DILEX-AHK, FINISH: ANODIZED ALUMINUM	SCHLUTER		
MT1	METAL STRIP PROFILE #JOLLY, FINISH: AGRB, BRUSHED GRAPHITE ANODIZED ALUMINUM	SCHLUTER	FRONT OF HOUSE	
VB1	RUBBER BASE: 0.80" THICK 6" BASE, COLOR: #8 BLACK	ALLSTATE	DINING & SMART ROOMS, CAFE	
VB2	THERMOPLASTIC VINYL BASE: .125" THICK, 4.5" COVE BASE, COLOR: #949 VERDE	MANNINGTON COMMERCIAL	BAKERY/POS	
WB	WOOD BASE SUPPLIED BY CASEWORK SUPPLIER, INSTALLED BY G.C.		CARPET	
CARPET				
C5	STYLE: MAGNITUDE, COLOR: BLACK PEARL, SIZE 4X24 TILE, INSTALLATION: BRICK ASHLAR. (REMODEL ONLY)	MANNINGTON COMMERCIAL	DINING AREAS	
C6	STYLE: MATRIX, COLOR: MESA, SIZE 18X36 TILE, INSTALLATION: MONOLITHIC. (REMODEL ONLY)	SHAW / MATRIX MESA	DINING AREAS	
C9	STYLE: NIGHT FLIGHT, COLOR: ROCKY SHORE #105698, SIZE: 19.69"x19.69" TILE, INSTALLATION: QUARTER TURNED (REMODEL ONLY)	INTERFACE	DINING AREAS	
C12	CARPET - SIZE: 24"W X 24"L; ROUGH IDEA SHEAR - ENTRY WAY TILE WITH AFIRMA HARDBACK, COLOR: PLOT 800118;	BENTLEY MILLS	ENTRY	
TILE/GROUT NOTES				
NOTE	* (U)" OR "(S)" SHOWN NEXT TO GROUT NUMBER(S) BELOW INDICATES GROUT TO BE UNSANDED OR SANDED.			GROUT #: (S)ANDED/(U)NSANDED; JOINT SPACING
DECORATIVE TILE				
T49	COLOR: FRENCH CLAY; BRONZAGE, SIZE: 4"x12", LAYOUT/PATTERN: 1/3 RUNNING BOND	TRANSCERAMICA	WALL   RESTROOM	G14; (U); 1/8"
T101	COLOR: FORGED; OLIVE GREEN, SIZE: 2.5" X 9.5", LAYOUT/PATTERN: STACK BOND	CREATIVE MATERIALS	WALL   FEATURE COLOR	G26; (US); 1/4"
T102	COLOR: ZELIGE; SPECKLED TAUPE, SIZE: 5" X 5", LAYOUT/PATTERN: STACK BOND	WOW TILE	WALL   FEATURE WHITE	G27; (US); 1/8"
T103	COLOR: SANTIAGO BLEND, SIZE: 3 5/8" X 11 5/8", LAYOUT/PATTERN: STACK BOND	CREATIVE MATERIALS	WALL   FEATURE BRICK	G25; (US); 3/8"
T104	COLOR: OXIDIZE; BROWN, SIZE: 12" X 24", LAYOUT/PATTERN: STACKED	CREATIVE MATERIALS	FLOOR   DINING	G28; (US); 1/4"
T105	COLOR: ARID GRAY, SIZE: 6" X 6", LAYOUT/PATTERN: STACKED	DALTILE	FLOOR   KITCHEN	G28; (US); 1/4"
T106	COLOR: BLAZE; DECOR YELLOW, SIZE: 4" X 12", LAYOUT/PATTERN: STACK BOND	TRANSCERAMICA	WALL   ACCENT	
QUARRY TILE				
QT	COLOR: CHESTNUT BROWN, #108, SIZE: 6"x6" WITH COVE BASE (ALTERNATE: DALTILE QUARRY TILE, COLOR: DIABLO RED, #0T01, OR COLOR: RED BLAZE, #0Q40, SIZE: 6"x6" SMOOTH W/ PRECISION ENDS & COVE BASE)	METROPOLITAN QUARRY BASICS	FLOOR TILE   BOH	G2, (G3); (S); 3/8"
GROUT				
G1	COLOR: 39; IVORY. ALTERNATE: LATICRETE GROUT COLOR: 39 MUSHROOM	MAPEI		
G25	COLOR: 58; TERRACOTTA	LATICRETE MVIS MORTAR		
G26	COLOR: 47; CHARCOAL	MAPEI		
G27	COLOR: 00; WHITE	MAPEI		
G28	COLOR: 35; NAVAJO BROWN	MAPEI		
GX	TEST GROUT, NOT ESTABLISHED			
WALL COVERING NOTES				
NOTE	TEXTURGLAS FINAL FINISH TO INCLUDE SCHEDULED PAINT COLOR			
WALL COVERING				
WC1	WALL TEXTURE: TEXTURGLAS, STYLE: TG4: BURLAP (CLASS A FIRE RATING)	ROOS INTERNATIONAL	FOH	SHOW PAINT # HERE
WC2	WALL TEXTURE: TEXTURGLAS, STYLE: TG7550; CROISINE (CLASS A FIRE RATING)	ROOS INTERNATIONAL	FOH	SHOW PAINT # HERE
WC3	WALL TEXTURE: TEXTURGLAS, STYLE: TG7710; CREPINE FLORTINES (CLASS A FIRE RATING)	ROOS INTERNATIONAL	FOH	SHOW PAINT # HERE
WC7	STYLE: BIG SUR; COLOR: COVE	MDC	FOH   MAIN	
WC8	STYLE: WATERCOLOR CANVAS; COLOR: EVERGREEN	MDC	FOH   ACCENT	
MISCELLANEOUS				
CMU	SPLIT FACE CMU - 4"x12"x24", CHISELED FACE WITH INTEGRAL COLOR: ARRISCRAFT RENNAISSANCE MASONRY UNIT, COLOR: SANDDRIFT, FINISH: PRESS HAMMERED		TRASH ENCLOSURE	
GL1	EUROPEAN CLEAR, TREE BARK, 5/32" THICKNESS SINGLE PANE GLASS	BENDHEIM	INTERIOR SCREEN WALLS	
GL2	SEEDED, SINGLE PANE GLASS	SEEDED	INTERIOR SCREEN WALLS	
GL5	TEXTURED GLASS; REEDED. COLOR: LOW IRON	PILKINGTON		
IG	1" INSULATED CLEAR GLAZING TYPICAL		STOREFRONT	
IGS	1" INSULATED SPANDREL GLAZING TYPICAL, COLOR: BLACK		STOREFRONT	
MTL8	METAL BASE FOR MILLWORK	CHEMETAL	MILLWORK	
TREX	TREX PLYWOOD, COLOR: SADDLE	TREX	TRASH GATE	
TREX2	TREX PLYWOOD, COLOR: WINCHESTER GREY	TREX	UTILITY SCREEN	
WOOD				
WD24	1/4" BEAD BOARD PANELING, 3" "V" GROVE O.C.; PRIMED (WHITE) & PAINTED IN THE FIELD	MILLWORK VENDOR	FOH	
WD25	1/2" BEAD BOARD PANELING, 3" "V" GROVE O.C.; PRIMED (WHITE) & PAINTED IN THE FIELD	MILLWORK VENDOR	FOH	
WD30	WHITE OAK, NATURAL, WIRE BRUSHED; FINISH: DEAD FLAT	MILLWORK VENDOR	MILLWORK	
WD30A	WHITE OAK, NATURAL: FINISH: DEAD FLAT	MILLWORK VENDOR	MILLWORK	
WD32A	WHITE OAK, DARK STAIN: FINISH: DEAD FLAT	MILLWORK VENDOR	MILLWORK	
WD37A	WHITE OAK, BLACK STAIN: FINISH: SMOOTH	MILLWORK VENDOR	MILLWORK	
WDX1	WHITE OAK; COLOR: GALLATIN	MILLWORK VENDOR	MILLWORK	
WDX2	WHITE OAK; COLOR: WIND RIVER	MILLWORK VENDOR	MILLWORK	
PAINT NOTES				
NOTE	INTERIOR PAINT: USE FRESH START PRIMER 02300 (WARM), USE SEMI-GLOSS FINISH IN FOOD SERVICE AREAS. USE EGGSHELL FINISH FOR ALL OTHER WALLS AND RESTROOM. USE SATIN FINISH ON INTERIOR DOORS & FRAMES. EXTERIOR EIFS: TOP COAT TO MATCH UNIDENTIFIED BENJAMIN MOORE PAINT COLOR. VERSITRIM FASCIA: MATCH BENJAMIN MOORE PAINT AT WALL BELOW, POST COATED, KYNAR 500 OR EQUAL PAINT.			
PAINT				
P99	FAIRVIEW TAUPE; #HC-85	BENJAMIN MOORE		
P166	CHEATING HEART; #1617	BENJAMIN MOORE		
P224	DRAGON'S BREATH; #1547	BENJAMIN MOORE		
P278	MONTEREY WHITE; #HC-27	BENJAMIN MOORE		
P285	BLACK BEAUTY; #2128-10	BENJAMIN MOORE		
P290	AVOCADO; #2145-10	BENJAMIN MOORE		
P291	BAJA DUNES; #997	BENJAMIN MOORE		
P292	COLLECTOR'S ITEM; #AF-45	BENJAMIN MOORE		
P293	FRENCH BERET; #1610	BENJAMIN MOORE		
P294	HUNTER GREEN; #2041-10	BENJAMIN MOORE		
UPHOLSTERY				
F133	VACATION; CANYON	FIL DOUX		
F177	KIEV; CASTLE	POLLACK		
F178	RE-FLE; INK WASH	POLLACK		
F185	FLOCK; NETTLE	MOMENTUM		
F187	FLOCK; FERN	MOMENTUM		
F188	FLOCK; HEARTH	MOMENTUM		
F189	FLOCK; FORREST	MOMENTUM		
S10	REIN; SABLE	DESIGNTEX		
S11	REIN; CLAY	DESIGNTEX		
S57	BOUNTY; COFFEE	FIL DOUX		
S69	DIMA; NIGHTFALL	FIL DOUX		
S71	BISTRO; CITRON	CF STINSON		
S72	BISTRO; GRASSHOPPER	CF STINSON		
S73	CASSIDY 2.0; PELICAN	CF STINSON		
S74	CASSIDY 2.0; JUNGLE	CF STINSON		
S75	BOUNTY; COCAO	FIL DOUX		
SOLID SURFACING				
SS40	STYLE: DALMATA; TERRAZZO, COLOR: TERRAZZO MATRIX 412	FORMICA	COUNTER/TABLE TOPS	
SS41	STYLE: LUNA, COLOR: SAIL WHITE	FORMICA	PICK-UP SHELVES	
LAMINATES				
L104	WILSONART 1500 - 6O GREY	WILSONART	KITCHEN DOOR	
L105	4155 PEWTER	FORBO	TABLE TOPS	
L107	0717 CASTORO OTTAWA	FENIX	CONSOLIDATION SCREENS	
L108	0724 GRIGIO BROMO	FENIX	CONSOLIDATION / BAKERY	
L109	0750 VERDE COMODORO	FENIX	CONSOLIDATION SCREENS	
L110	4132 ASH	FORBO	TABLE TOPS	
L111	4178 IRON	FORBO	TABLE TOPS	
L112	4166 CHARCOAL	FORBO	TABLE TOPS	

FINISH SCHEDULE				
NUMBER	DESCRIPTION	MANUFACTURER/DISTRIBUTOR	LOCATION	NOTES
L113				
LX	4184 OLIVE	FORBO	TABLE TOPS	
LX				
TEST LAMINATE, NOT ESTABLISHED				
BRICK				
BR-1	BRICK - THIN, SIZE: 3-5/8"W X 3/4"TH X 11-5/8"L, COLOR: SANTIAGO CREATIVE MATERIALS BLEND	MCNEAR BRICK & BLOCK	EXTERIOR	
PAVING STONE				
PN-1	HOLLAND PAVING STONE (FIELD), COLOR: RUSTIC RED, PATTERN: HERRINGBONE RECTANGULAR	UNILOCK	OUTDOOR CAFE - FIELD	
EXTERIOR FABRIC				
EF-5	GREEN SUNBRELLA COLOR: LEAF GREEN; PMS 2411C	SUNBRELLA	AWNING	
EF-6	SLATE, SUNBRELLA COLOR: CHARCOAL; PMS 7540C	SUNBRELLA	AWNING	
EF-7	SAND, SUNBRELLA COLOR: SAND; PMS 9184C	SUNBRELLA	AWNING	

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

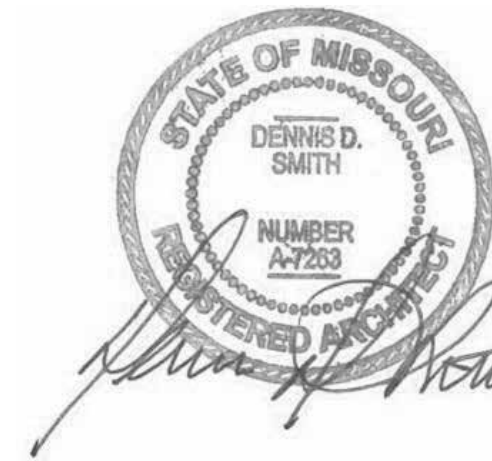


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Architecture · Engineering ·  
Planning · Interior Design ·  
Landscape Architecture

Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION - SHELL  
**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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## GENERAL NOTES:

- CORNER GUARDS TO BE INSTALLED AT ALL OUTSIDE CORNERS IN KITCHEN, BAKERY (1 1/2" X 1 1/2" STAINLESS STEEL). SUPPLIED AND INSTALLED BY G.C.
- NOT ALL FINISHES IN SCHEDULE OF FINISHES ARE NECESSARILY INCLUDED IN THIS SCOPE OF WORK. SEE ROOM FINISH SCHEDULE & SHEETS FOR LOCATIONS. G.C. TO LEAVE ON SITE, UPON COMPLETION OF JOB, (1) BOX EACH OF ALL WALL, FLOOR, CARPET TILE & CEILING TILE USED - REFER TO VENDOR LIST.
- ALL FLOORING SHALL BE IN ACCORDANCE WITH APPLICABLE ACCESSIBILITY CODE.
- PRIMARY SURFACES WITHIN FOOD PRODUCTION AREA SHALL MEET 70% LIGHT REFLECTIVE VALUE OR GREATER.
- PAINT FINISHES: INTERIOR PAINT TO BE BENJAMIN MOORE, REGAL SELECT. CEILINGS AND SOFFITS ARE TO BE FLAT, WALLS IN DINING AND GENERAL AREAS TO BE LOW LUSTER (EGGSHELL), WALLS IN KITCHEN AND BATHROOM, IF PAINT FINISH, TO BE SEMI GLOSS. FRONT OF HOUSE DOOR FRAMES TO BE SEMI GLOSS AND MATCH THE ADJACENT WALL SURFACE AT FOH.
- EXTERIOR EIFS PAINT TO BE BENJAMIN MOORE, REGAL SELECT, EXTERIOR LOW LUSTER. EXTERIOR SEALANT TO MATCH ADJACENT EIFS COLOR OR BUILDING MATERIAL, TYP.
- ROLLER SHADES: MANUFACTURER - DRAPER, OPERATING MECHANISM - MANUAL FLEX SHADE W/ STAINLESS STEEL BEAD CHAIN CLUTCH OPERATOR & WEIGHTED BAR @ BOTTOM, FABRIC - SHEER WEAVE SERIES 4100 "GREYSTONE" BY PHIFER @ CLEAR ANODIZED ALUMINUM STOREFRONT & SHEER WEAVE SERIES 3000 "CHOCOLATE" BY PHIFER @ BRONZE ALUMINUM STOREFRONT. SET UPPER AND LOWER TRAVEL LIMITS BY INSTALLING STOP BALLS TO BEAD CHAIN (CRIMP CLOSED USING PLIERS), PER MANUFACTURER'S RECOMMENDATIONS. USE STOP BALLS PROVIDED IN HARDWARE PACKET BY DRAPER. DO NOT SUBSTITUTE HARDWARE BY OTHERS AS THIS MAY INTERFERE WITH CLUTCH MECHANISM. MOUNT HOLDER CLIP FOR CHAIN ON MULLION AT 54" AFF, TYP. NOTES CONTAINING AN "X" REFER TO TEST ITEMS AND ARE NOT STANDARD.

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

## FINISH SCHEDULES, LEGENDS, & NOTES

Project Number:

Sheet Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DFM:

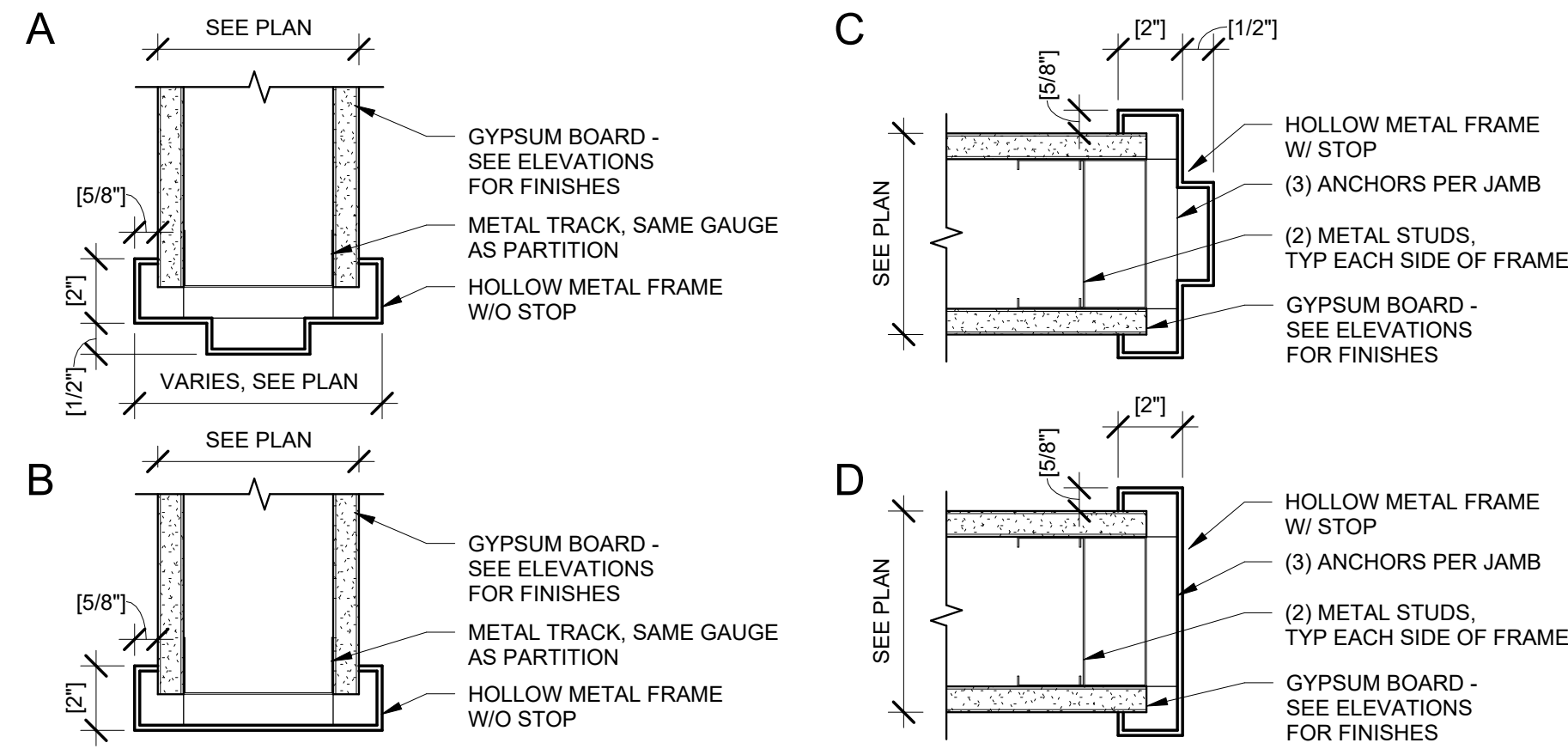
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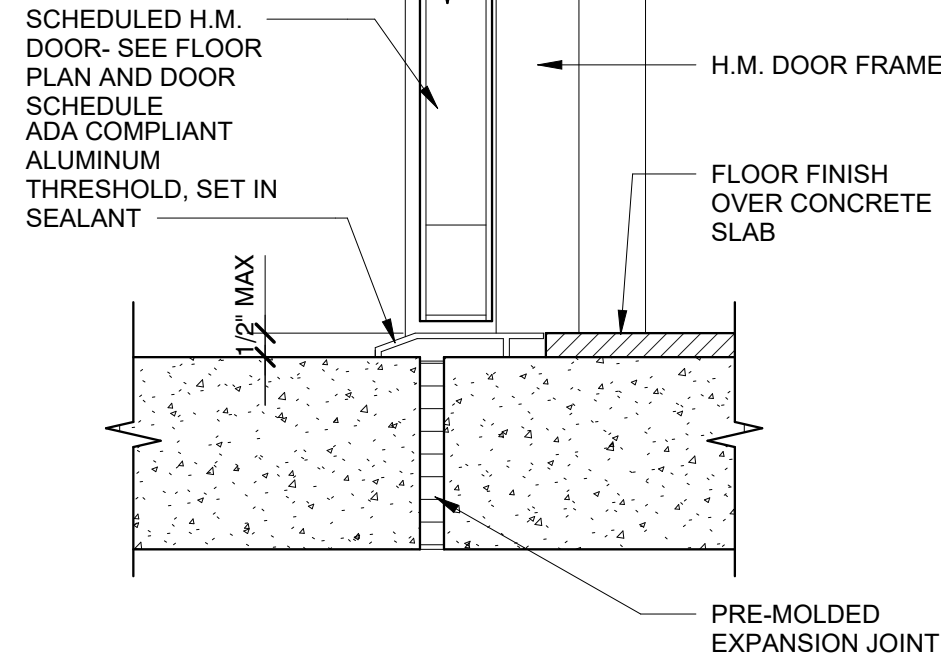
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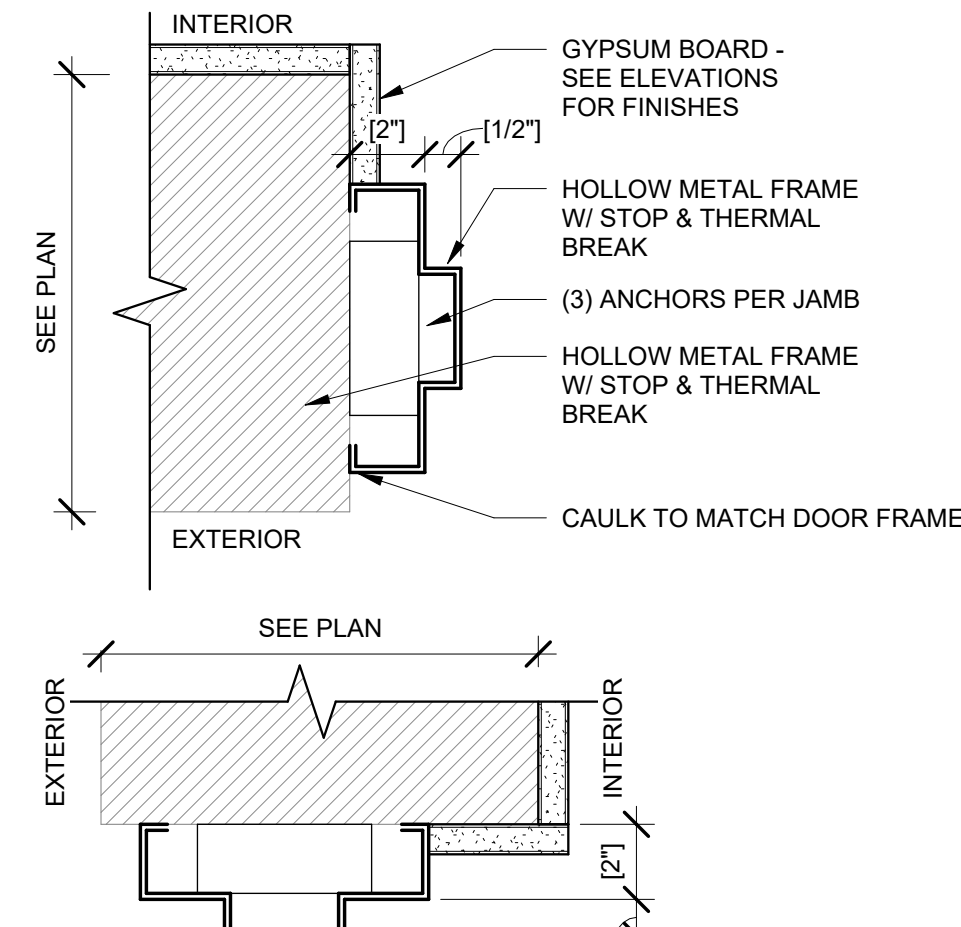
**17 INTERIOR DOOR FRAME DETAILS**

3" = 1'-0"

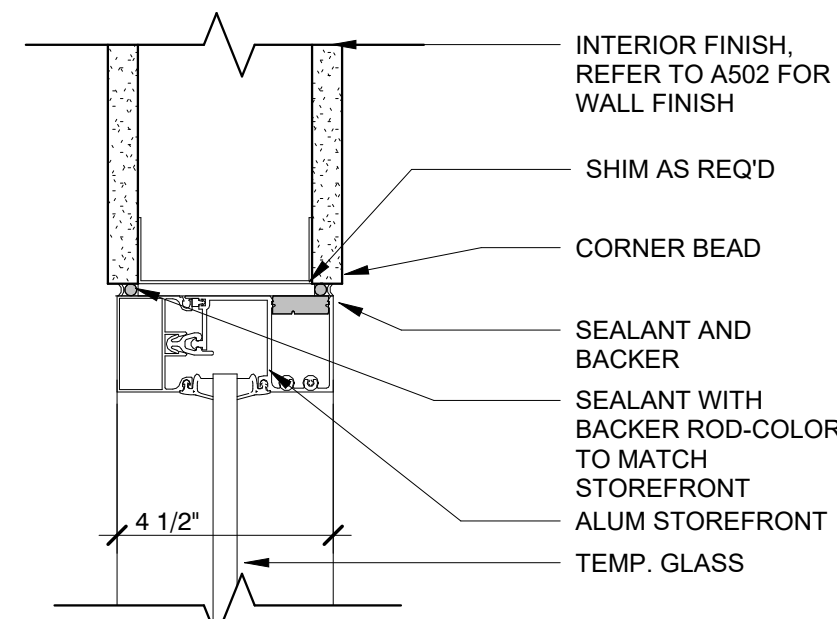
NOTE: SEE FLOOR FINISH PLAN A121 FOR FLOOR FINISHES

**5 SERVICE DOOR SILL**

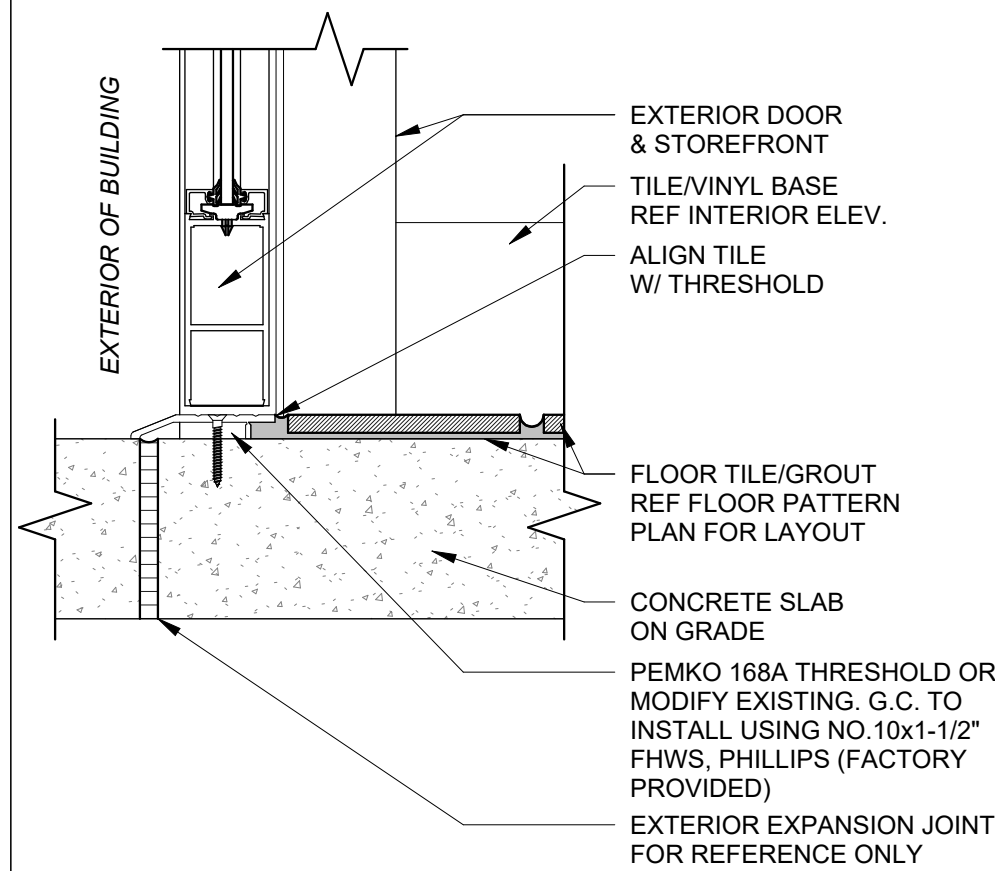
3" = 1'-0"

**14 DOOR FRAME DETAILS**

3" = 1'-0"

**8 INTERIOR VESTIBULE STOREFRONT**

3" = 1'-0"

**15 THRESHOLD @ VESTIBULE DOOR**

3" = 1'-0"

**HARDWARE SCHEDULE**

QTY	PROVIDE: PER DOOR	SUPPLIER
<b>GROUP 1- (DOUBLE ENTRY W/ LOCK)- MATCH STOREFRONT FINISH</b>		
1 EACH	CONTINUOUS GEAR HINGE, CONCEALED 780-224HD	HAGER
1 EACH	EXIT DEVICE 25-C (PANIC BAR)	FALCON
1 EACH	PULL 12L	HAGER
1 EACH	CYLINDER (VERIFY CAM & FINISH MAT'L)   MAY REQUIRE 718C CYLINDER TRIM	FALCON
1 EACH	CLOSER, HEAVY DUTY, 4041 (4040 SERIES)	LCN
1 EACH	THRESHOLD, HEAVY DUTY, 1715	PEMKO
1 EACH	WEATHERSTRIP 315SSR	PEMKO
1 EACH	STOP - AS REQUIRED, WALL-WS407CCV, FLOOR-FS436 OR FS438	IVES
1 EACH	SWEEP 307AV (OR EQUAL): COMPATIBLE W/ DOOR SPEC.	PEMKO

<b>GROUP 1A- (ENTRY W/OUT LOCK)- MATCH STOREFRONT FINISH</b>		
1 EACH	CONTINUOUS GEAR HINGE, CONCEALED 780-224HD	HAGER
1 EACH	PUSH/PULL SET 160D-V-B	HAGER
1 EACH	CLOSER, HEAVY DUTY, 4041 (4040 SERIES)	LNC
1 EACH	THRESHOLD, HEAVY DUTY, 1715	PEMKO
1 EACH	WEATHERSTRIP 315SSR	PEMKO
1 EACH	STOP - AS REQUIRED, WALL-WS407CCV, FLOOR-FS436 OR FS438	IVES

<b>GROUP 1B- (SINGLE ENTRY W/LOCK)- MATCH STOREFRONT FINISH</b>		
1 EACH	CONTINUOUS GEAR HINGE, CONCEALED 780-224HD	HAGER
1 EACH	EXIT DEVICE 25-R (PANIC BAR)	FALCON
1 EACH	PULL 12L	HAGER
1 EACH	CYLINDER (VERIFY CAM & FINISH MAT'L)	FALCON
1 EACH	CLOSER, HEAVY DUTY, 4041 (4040 SERIES)	LCN
1 EACH	THRESHOLD, HEAVY DUTY, 1715	PEMKO
1 EACH	WEATHERSTRIP 315SSR	PEMKO
1 EACH	STOP - AS REQUIRED, WALL-WS407CCV, FLOOR-FS436 OR FS438	IVES
1 EACH	SWEEP 307AV (OR EQUAL): COMPATIBLE W/ DOOR SPEC.	PEMKO

<b>GROUP 1C- (EGRESS EXIT) - MATCH STOREFRONT FINISH</b>		
1 EACH	CONTINUOUS GEAR HINGE, CONCEALED 780-224HD	HAGER
1 EACH	EXIT DEVICE 25-R (PANIC BAR)	FALCON
1 EACH	PULL 12L	HAGER
1 EACH	CYLINDER (VERIFY CAM & FINISH MAT'L)	FALCON
1 EACH	CLOSER, HEAVY DUTY, 4041 (4040 SERIES)	LCN
1 EACH	THRESHOLD, HEAVY DUTY, 1715	PEMKO
1 EACH	WEATHERSTRIP 315SSR	PEMKO
1 EACH	STOP - AS REQUIRED, WALL-WS407CCV, FLOOR-FS436 OR FS438	IVES
1 EACH	SWEEP 307AV (OR EQUAL): COMPATIBLE W/ DOOR SPEC.	PEMKO

<b>GROUP 2- (SERVICE DOOR)</b>		
1 EACH	CONTINUOUS PIANO HINGE, 780-210HD	HAGER-ROTON
1 EACH	EXIT DEVICE 19-R-EO (PANIC BAR)	FALCON
1 EACH	CLOSER, HEAVY DUTY, 4041 (4040 SERIES)	LCN
1 EACH	EXIT ALARM EAX-3500FK (FLUSH MOUNT KIT)	DETEX
1 EACH	THRESHOLD 171A - SIZE AS REQUIRED	PEMKO
1 EACH	SWEEP 307AV - SIZE AS REQUIRED	PEMKO
1 EACH	WEATHERSTRIP 303AV- SIZE AS REQUIRED KICK	PEMKO
2 EACH	KICK PLATE 24"X34" (US32D FINISH)	-
1 EACH	WIDE ANGLE VIEWER 698	IVES
1 EACH	24" HC STAINLESS GRAB BAR BUMPER- B-5806-24 OR EQUAL	BOBRICK
1 EACH	STOP - AS REQUIRED, WALL-WS407CCV, FLOOR-FS436 OR FS438	IVES

<b>GROUP 3A- RESTROOM (MULTI-USE) PASSAGE</b>		
1 1/2 PAIR	HINGE BB1279 4 1/2" X 4 1/2"	HAGER
1 EACH	PULL 8302B 3 1/2" X 15" PA28	IVES
1 EACH	PUSH 8200 3 1/2" X 15" PA28	IVES
1 EACH	CLOSER, 8618FH	DORMA
3 EACH	SILENCERS GJ64	GLYNN JOHNSON
2 EACH	KICK PLATE 12"X34" (US32D FINISH)	-
1 EACH	STOP - AS REQUIRED, WALL-WS407CCV, FLOOR-FS436 OR FS438	IVES

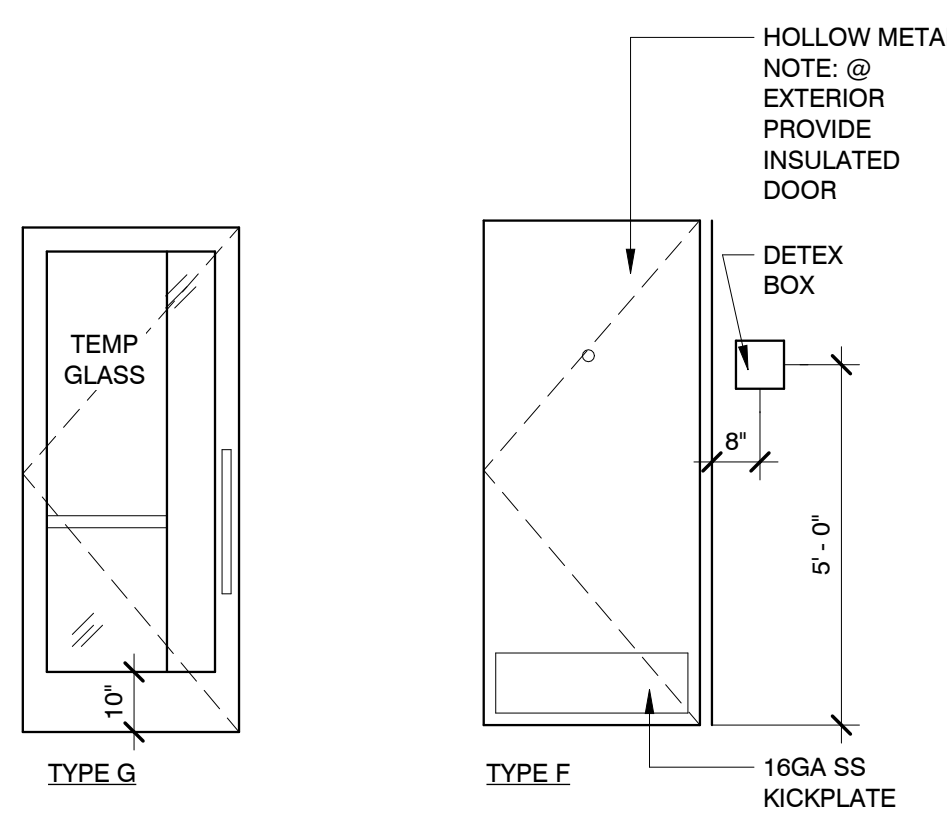
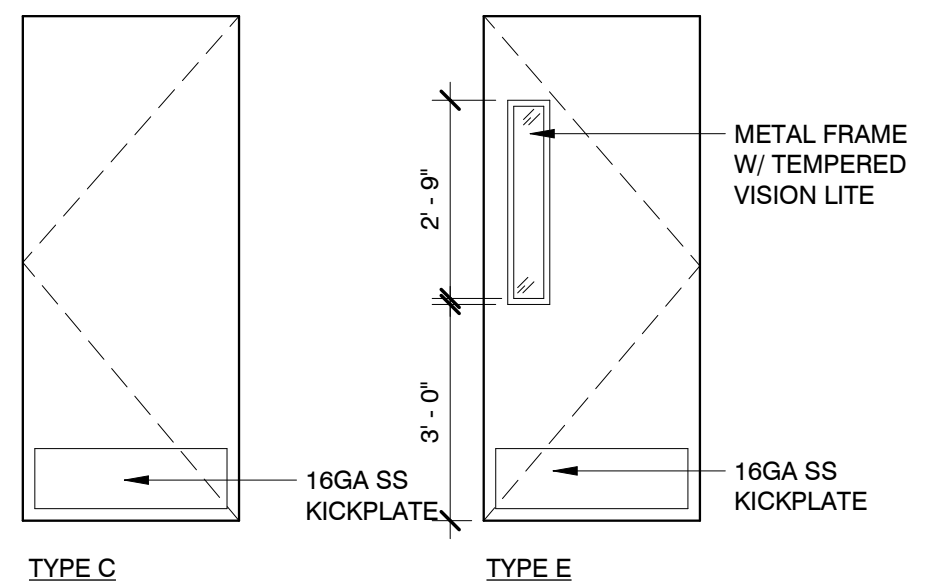
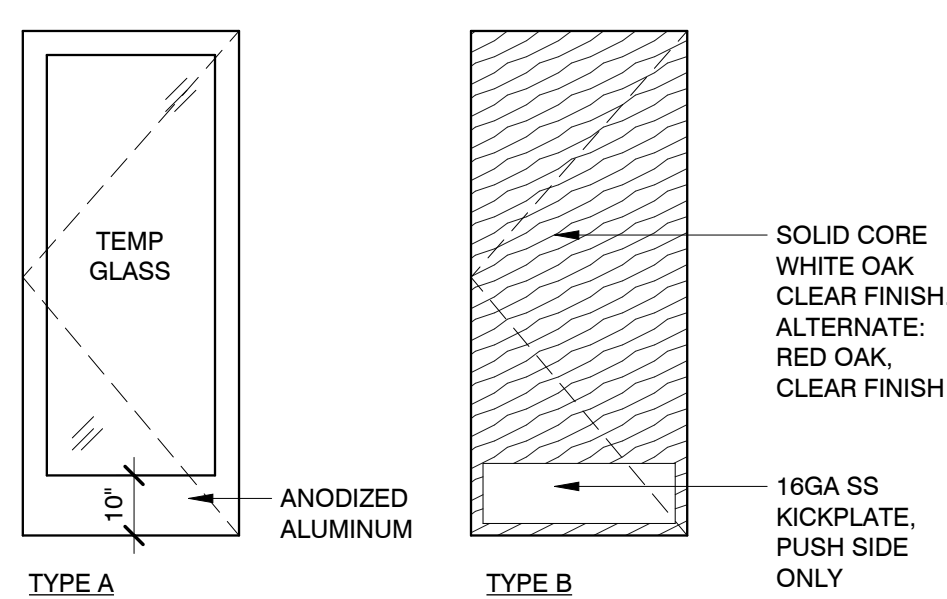
<b>GROUP 3B- RESTROOM (SINGLE-USE)</b>		
1 1/2 PAIR	HINGE BB1279 4 1/2" X 4 1/2"	HAGER
1 EACH	CYLINDER B-SERIES, B301, "D" LEVER STYLE, PRIVACY FUNCTION	FALCON
1 EACH	DEADBOLT W/ "IN USE" & "VACANT" INDICATOR D271-626 SATIN CHROME FINISH	FALCON
1 EACH	CLOSER, 8618FH	DORMA
3 EACH	SILENCERS GJ64	GLYNN JOHNSON
2 EACH	KICK PLATE 12"X34" (US32D FINISH)	-
1 EACH	STOP - AS REQUIRED, WALL-WS407CCV, FLOOR-FS436 OR FS438	IVES

<b>GROUP 4- OFFICE/ PRIVACY</b>		
1 1/2 PAIR	HINGE BB1279 4 1/2" X 4 1/2"	HAGER
1 EACH	CYLINDER B-SERIES, B581, "D" LEVER STYLE, STOREFROOM FUNCTION	FALCON
1 EACH	CLOSER 8616AF86 (NON HOLD OPEN)	DORMA
3 EACH	SILENCERS GJ64	GLYNN JOHNSON
1 EACH	STOP - AS REQUIRED, WALL-WS407CCV, FLOOR-FS436 OR FS438	IVES
2 EACH	KICK PLATE 12"X34" (US32D FINISH)	IVES

<b>GROUP 5- CLOSET</b>		
1 1/2 PAIR	HINGE BB1279 4 1/2" X 4 1/2"	HAGER
1 EACH	CYLINDER B-SERIES, B581, "D" LEVER STYLE, STOREFROOM FUNCTION	FALCON
3 EACH	SILENCERS GJ64	GLYNN JOHNSON
1 EACH	STOP - AS REQUIRED, WALL-WS407CCV, FLOOR-FS436 OR FS438	IVES
2 EACH	KICK PLATE 12"X34" (US32D FINISH)	-

**DOOR SCHEDULE - TI**

NUM	NEW/ EX	LEAVE S	DOOR			MATERIAL	TYPE	JAMB	FRAME DETAILS		HARDWARE	COMMENTS	FINISH NOTES	KEYING
			W	H	T				HEAD	JAMB				
105	NEW		3' - 0"	7' - 0"	0"	WD	B	HM	18A/A601	18C/A601	3B			
107	NEW		3' - 0"	7' - 0"	0"	WD	B	HM	18A/A601	18C/A601	3B			
125	NEW		3' - 1"	10' - 10"	1 3/4"	ALUM	A	ALUM	22/A601	22/A601	1A	8,9		

**HARDWARE GENERAL NOTES:**

- G.C. TO FURNISH & INSTALL FALCON CYLINDER IN ALL PERIMETER DOORS. ALL PERIMETER DOORS TO BE KEYED ALIKE. PROVIDE KEYWAY ON EXTERIOR FACE.
- G.C. TO FURNISH & INSTALL FALCON CYLINDER IN ALL INTERIOR H.M. DOORS. ALL INTERIOR DOORS TO BE KEYED ALIKE. PROVIDE KEYWAY ON EXTERIOR FACE.
- G.C. TO FURNISH & INSTALL PADLOCK WITH 4" SHANK FOR WALK-IN COOLER/FREEZER DOORS. PADLOCK TO BE KEYED ALIKE WITH INTERIOR DOORS.
- ALL HOLLOW METAL DOOR FRAMES ARE TO BE WELDED.
- G.C. TO FURNISH & INSTALL PANIC HARDWARE PER ALL APPLICABLE REGULATIONS & CODES HAVING JURISDICTION.
- DOOR STOPS & BUMPERS TO BE INSTALLED BEHIND ALL DOORS.
- ALL EXTERIOR HARDWARE TO MATCH STOREFRONT, USE US28 SATIN ALUMINUM FOR CLEAR ANODIZED FINISH, & US10B DARK BRONZE FOR BRONZE STOREFRONT. USE US28 SATIN ALUMINUM FOR ALL INTERIOR HARDWARE.
- G.C. TO SUPPLEMENT EXISTING HARDWARE AS REQUIRED (FOR EXISTING DOORS) TO MATCH PANERA'S SPECIFICATIONS - REPLACE HINGES IF NECESSARY.
- NO THRESHOLD REQUIRED AT INTERIOR VESTIBULE DOORS.

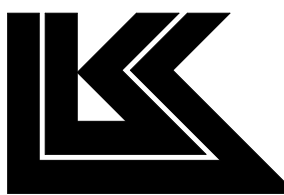
**DOOR SCHEDULE NOTES:**

- \* - SUPPLEMENT EXISTING HARDWARE AS REQUIRED TO MEET PANERA'S SPEC.
- PERMANENTLY SECURE EXISTING DOOR PRIOR TO INTERIOR FURNISHING. HARDWARE FURNISHED WITH DOOR.
  - CONTRACTOR TO VERIFY CONDITION OF EXISTING DOOR & CONFIRM IF REPLACEMENT IS REQ'D.
  - PROVIDE EYE VIEWER INSTEAD OF SECURITY WINDOW.
  - KITCHEN DOORS: ELIASON SCP-8 MODEL (ALTERNATE: CHASE PROLINE 350P) W/ PLAM ANTIQUE WHITE FINISHED BOTH SIDES & 10" ROUND ACRYLIC WINDOW. 18" S.S. BASE (BOTH SIDES) W/ STAINLESS STEEL EDGE TRIM & HINGE COVERS. DOOR FURNISHED WITH BLACK ALUM BUMPER STRIP (32" AFF) BY MANUFACTURER.
  - BACK OF HOUSE METAL DOORS & METAL FRAMES- (ELIASON, OFFICE & SERVICE), PAINT BENJAMIN MOORE #1457 - WHITE WINGED DOVE (P156).
  - RESTROOM DOOR FRAME, PAINT TO MATCH ADJACENT WALL.
  - ALL PANIC BARS AND PUSH BARS TO BE MOUNTED ON DOORS BETWEEN 30" AND 40" ABOVE FINISHED FLOOR.
  - SEE DOOR CLOSER HARDWARE ITEMS SO THAT ALL INTERIOR DOORS DO NOT REQUIRE MORE THAN 5 LBS. TO OPERATE AND EXTERIOR DOORS NOT TO EXCEED 8.5 LBS. OF FORCE TO OPERATE.
  - ROOF HATCH; PROVIDE KEYED PADLOCK.

Bakery-Cafe:

**22169****SYSTEM: G4 (ARIA)**

Project Team:

**LK ARCHITECTURE, INC.**345 RIVERVIEW,  
WICHITA, KS 67203  
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Landscape Architecture

Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION - SHELL

**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086

Consultant Copyright Placeholder

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

**DOOR ELEVATIONS,  
SCHEDULES, &  
DETAILS**

Project Number:

Sheet Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DFM:

DM:

CPM:

DPM:

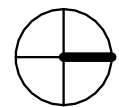
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CPM:

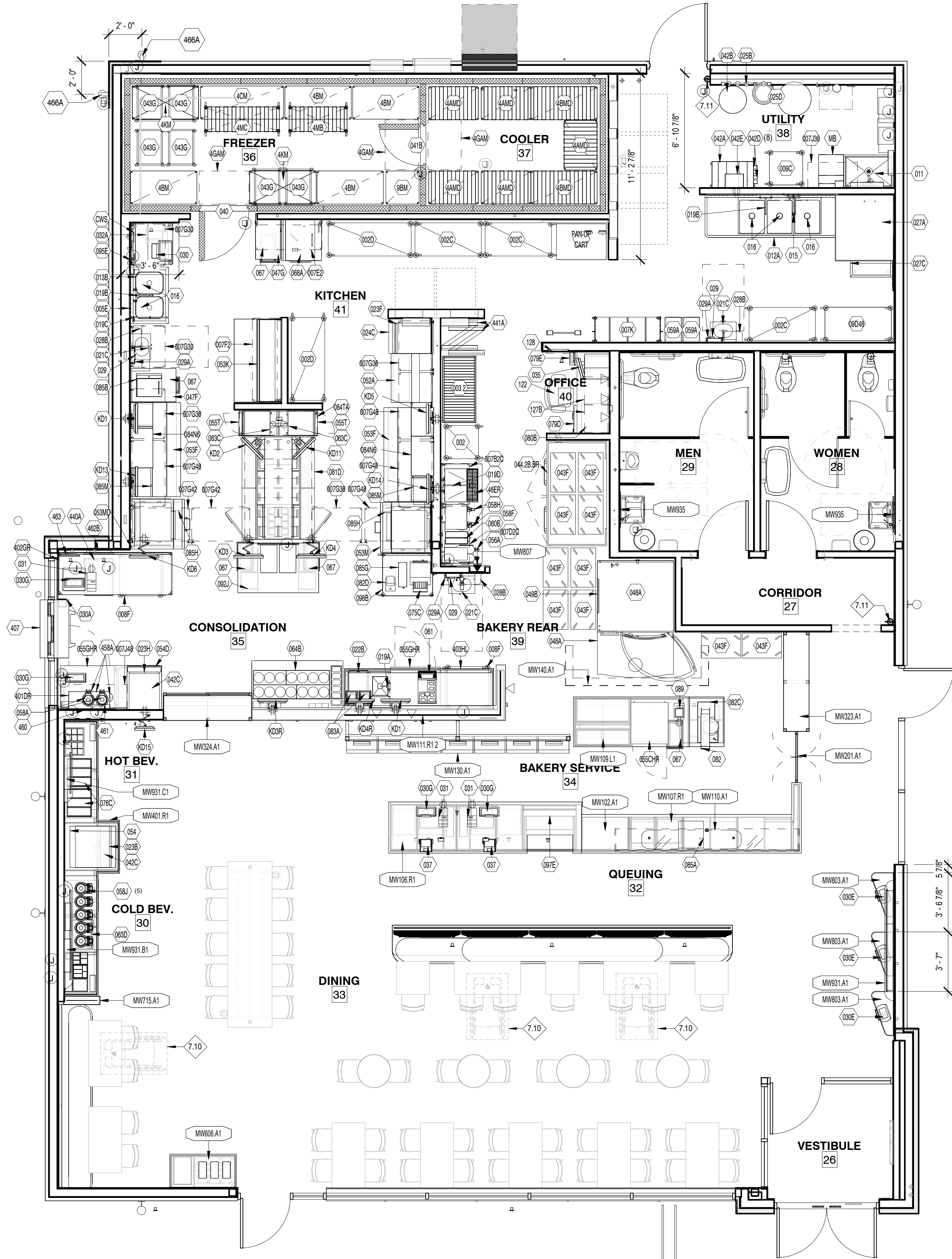
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7/11/2022 5:06:43 PM

PR 2021.03.11



24 EQUIPMENT PLAN  
1/4" = 1'-0"



KEYED NOTES

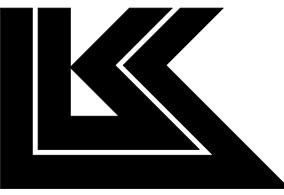
- 7.10 ACCESSIBLE SEATING  
7.11 LOCATION OF APPROVED FIRE EXTINGUISHER RATED 2A-10BC.  
LOCATE WITHIN 30' TRAVEL DISTANCE FROM LIKE EXTINGUISHER.

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

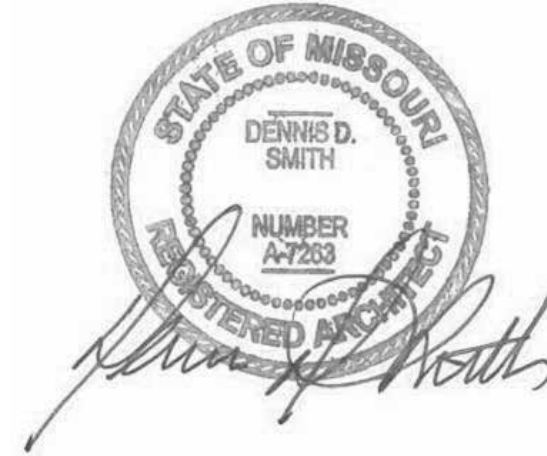


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Planning · Interior Design ·  
Landscape Architecture

Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION - SHELL  
**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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EQUIPMENT PLAN LEGEND:

- XXX ← ROOM NUMBER SYMBOL  
? ← EQUIPMENT IDENTIFICATION SYMBOL  
? ← STEEL IDENTIFICATION SYMBOL  
? ← WOOD IDENTIFICATION SYMBOL  
REL ← RELOCATION INDICATION SYMBOL  
FURN-ID ← FURNITURE IDENTIFICATION SYMBOL  
? ← DOOR NUMBER SYMBOL  
? ← FABRIC DESIGNATION SYMBOL (SEE A-4.8 SHEET)

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

EQUIPMENT PLAN

Project Number: 22169  
Sheet Number: A700  
Drawn By:  
Author:  
Issue Date: 07/05/2022  
DFM: DPM DM CPM  
CPM



EQUIPMENT SCHEDULE

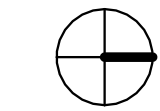
ID TAG	QTY	DESCRIPTION	MANF.	MODEL #	DIMENSIONS	SUPPLIED	INSTALLED	NOTES
002	1	24IN STOR SHELIVING (Z, 5 SH)	EAGLE	PAN 2424-C	24"W x 24"D x 91"H	E.S.	E.S.	B
002C	3	24IN STOR SHELIVING (Z, 5 SH)	EAGLE	PAN 2448-C	48"W x 24"D x 91"H	E.S.	E.S.	B
002D	2	24IN STOR SHELIVING (Z, 5 SH)	EAGLE	PAN 2460-C	60"W x 24"D x 91"H	E.S.	E.S.	B
003 2	1	BAKER STORAGE RACK	NEW AGE INDUSTRIAL CORP. INC.	97191	48"W x 24"D x 76"H	S.W.	OWNER	B
4AMD	5	WALK-IN FREEZER SHELF	METRO	PAN862436-F4	36"W x 24"D x 86.625"H	E.S.	E.S.	
4BM	4	WALK-IN COOLER SHELF	METRO	PAN862448-C4	48"W x 24"D x 86.625"H	E.S.	E.S.	
4BMD	2	WALK-IN FREEZER SHELF	METRO	PAN862448-F3	48"W x 24"D x 86.625"H	E.S.	E.S.	
4CM	1	WALK-IN COOLER SHELF	METRO	PAN862460-C3	60"W x 24"D x 86.625"H	E.S.	E.S.	
4GAM	3	36" SINGLE BRIDGE SHELF	METRO	PAN2436BS-PRO	36"W x 24"D x 1.5"H	E.S.	E.S.	
4KM	2	STANDING BRIDGE SHELF	METRO	PAN862448-C7	48"W x 24"D x 86.625"H	E.S.	E.S.	
4MB	1	COOLER TRUNDLE	METRO	PAN2448-RIGTRUNDLE	43"W x 21.75"D x 9.75"H	E.S.	E.S.	F
4MC	1	COOLER TRUNDLE	METRO	PAN2460-RIGTRUNDLE	55"W x 21.75"D x 9.75"H	E.S.	E.S.	F
005E	1	SMARTWALL @ PREP SINK	EAGLE GROUP	PAN36-SWPREP	36"W x 30"H	E.S.	E.S.	-
007B2C	1	WALL SHELF - 30" (2 SH) - 2C	EAGLE	PAN 1830-WALL-2C	30"W x 18"D	E.S.	E.S.	
007D2C	1	WALL SHELF - 48" (2 SH) - 2C	EAGLE	PAN 1848-WALL-2C	48"W x 18"D	E.S.	E.S.	
007E2	1	WALL SHELF - 48" (2 SH)	EAGLE	PAN 1860-WALL-2	48"W x 18"D	E.S.	E.S.	
007F2	1	WALL SHELF - 60" (2 SH)	EAGLE	PAN 1860-WALL-2	60"W x 18"D	E.S.	E.S.	
007G30	2	WALL SHELF OVER DOOR - 30"	EAGLE	YPB-0047-30	31-3/16"W x 25-9/32"D	E.S.	E.S.	
007G36	3	WALL SHELF OVER DOOR - 36"	EAGLE	YPB-0047-36	37-3/16"W x 25-9/32"D	E.S.	E.S.	
007G42	2	WALL SHELF OVER DOOR - 42"	EAGLE	YPB-0047-42	43-3/16"W x 25-9/32"D	E.S.	E.S.	
007G48	4	WALL SHELF OVER DOOR - 48"	EAGLE	YPB-0047-48	49-3/16"W x 25-9/32"D	E.S.	E.S.	
007J36	1	WALL SHELF, SINGLE, UPTURNED BRACKETS - 18" x 48"	EAGLE	1836C SHELF; 18WB1C BRACKETS	36"W x 18"D	E.S.	E.S.	
007J48	1	WALL SHELF, SINGLE, UPTURNED BRACKETS - 18" x 24"	EAGLE	1848C SHELF; 18WB1C BRACKETS	48"W x 18"D	E.S.	E.S.	
007K	1	ASSOCIATE GAMENT RACK	METRO	INSTR-PAN1848-GRM	48"W x 18"D x 76.75"H	E.S.	E.S.	
008F	2	STORAGE CART	EAGLE	PAN 3030-DSC	30"W x 30"D x 29.75"H	E.S.	E.S.	
9BM	1	WALK-IN COOLER INGREDIENT SHELF	METRO	PAN862424	24"W x 30"D x 86.625"H	E.S.	E.S.	
009C	1	MOP SINK RACK SHELVEY (4 SH)	EAGLE	YPB-0308-00	24"W x 24"D x 92"H	E.S.	E.S.	
09D48	1	COATED CLEAN DISH RACK SHELIVING	EAGLE	PAN DISH SHELIVING-C	48"W x 24"D x 91"H	E.S.	E.S.	
011	1	MOP SINK W/ THE FOLLOWING ACCESSORIES: MR370 5/8" HOSE 5' LONG W/ CLAMP, MR371 SPEAKMAN FAUCET SC5811RCP, MR374 WEDGE-LOK SEAL FOR 3" DRAIN, MR376 DOME STRAINER, CHROME	FLORESTONE PROD.	MSR3624	36"W x 24"D	G.C.	G.C.	-
012A	1	3 COMP SINK - REDUCED SIZE (SS)	EAGLE	CUSTOM	103"W x 31"D x 42.5"H	E.S.	G.C.	
013B	1	2 COMP SINK - REDUCED SIZE (SS)	EAGLE GROUP	314-16-2	41"W x 27.5"D x 44.5"H	E.S.	G.C.	-
015	1	PRE-RINSE SPRAY UNIT/DISH	FISHER	2210-WB W/ ADD ON SPOUT	37"H x 18"W	E.S.	G.C.	
016	5	ROTARY WASTE VALVE (1, 2, 3 COMP)	FISHER	22446	4" DIA. 4.5"H	E.S.	G.C.	
019A	1	FAUCET (ESPRESSO)	ZURN	Z812B1-15F	6.5"W x 2"D x 11.9"H	C.S.	G.C.	-
019B	2	FAUCET (1, 2, 3 COMP SINK)	FISHER	13269	8" CTRS12" SPOUT	E.S.	G.C.	
019C	1	FAUCET: POT FILLER	T&S Brass and Bronze Works, Inc.	B-0594	3.125"W x 26.5625"D x 7.6875"H	E.S.	G.C.	
019D	1	POT FILLER FAUCET FOR HOT BEV	EAGLE	301003	8" CTRS18" DBL-JOINTED SPOUT	E.S.	G.C.	
021C	3	WALL MTD SS HANDSINK (knee cntrl)	EAGLE	HSA-10-FK-LRS	18.9"W x 14.75"D x 14.25"H	E.S.	G.C.	
022B	1	MOBILE ICE BIN	EAGLE	YPB-0093-00	14"W x 25"D x 29.6875"H	E.S.	G.C.	
023B	1	ICE MACHINE (w/ remote condenser)	HOSHIZAKI	KMD-901MRH w/URC-12F	30"W x 24.625"D x 28"H	OWNER	G.C.	-
023F	1	ICE MACHINE W/ REMOTE AIR-COOLED CONDENSER	HOSHIZAKI	KM-520MRJ	22"W x 27.375"D x 28"H	OWNER	G.C.	
023H	1	ICE MACHINE W/ REMOTE AIR-COOLED CONDENSER	HOSHIZAKI	KM-660MRJ	22"W x 27.375"D x 28"H	OWNER	GC	
024C	1	ICE STORAGE BIN	HOSHIZAKI	B-300PF	22"W x 32.5"D x 46"H	OWNER	G.C.	-
025B	1	WATER FILTER (4 POD)	ELGE	SLB4PL	36"W x 27.25"H	E.S.	G.C.	
025D	1	WATER SOFTENER	ELGE	-	16"DIA x 72.85"H & 24.5"DIA x 50.5"H	ELGE	G.C.	-
027A	1	DISHWASHER (UPRIGHT)	JACKSON	ES-2000	25.25"W x 25.25"D x 66.25"H	ECOLAB	G.C.	
027C	1	DISH COUNTER (CLEAN)	EAGLE	CUSTOM	30"W x 31"D x 42.5"H	E.S.	G.C.	
028B	3	TORK ELEVATION MATIC HAND TOWEL ROLL DISPENSER	TORK	5510202; WHITE	14.7"H X 13.2"W X 8.1"D	SCA	G.C.	
029	3	SOAP DISPENSER	ECOLAB	92633825	4"W x 4"D x 8"H	ECOLAB	ECOLAB	
029A	3	GLOVE BOX HOLDER	GLOBAL	WBB2187696	11.9375"W x 3.8125"D x 19"H	S.W.	G.C.	
030	1	POS REGISTER W/ COMPACT CASH DRAWER	NCR	POS RealPOS 72XRT	REGISTER - 14.5"W x 10.5"D x 14.5"H DRAWER - 16.2"W x 16.3"D x 4.3"H	NCR	NCR	
030A	1	CASH DROP BOX	AMSEC	TB0610-1 W/ 4505095	6"W x 10"D x 6"H	E.S.	G.C.	
030E	3	KIOSK TABLET W/ SURFACE MOUNTED CASE	APPLE & LILITAB	IPAD	12.47" W x 1"D x 8.98"H	OWNER	OWNER	
030G	3	HP POS REGISTER W/ COMPACT CASH DRAWER	HP	HP ENGAGE ONE	REGISTER - 13.75"W x 6.5"D x 11.5"H; DRAWER (IF APPLICABLE) - 16.2"W x 16.3"D x 4.3"H	HP	HP	
030G	1	HP POS REGISTER W/ COMPACT CASH DRAWER	HP	HP ENGAGE ONE	REGISTER - 13.75"W x 6.5"D x 11.5"H; DRAWER (IF APPLICABLE) - 16.2"W x 16.3"D x 4.3"H	HP	HP	
031	3	PRINTER	EPSON/MICROS	TM-T88	5.71"W x 7.68"D x 5.83"H	MICROS	MICROS	
032A	1	PRINTER/FAX/COPIER MACHINE	BROTHER	MFC-7340	16.9"W x 15.6"D x 12"H	NCR	NCR	
035	1	MANAGER PC AND PRINTER	HP	EVO D510	-	NCR	NCR	
037	2	CREDIT CARD READER	Verifone	MX925	8.6"W x 9.1"D x 2.2"H	OWNER	OWNER	
040	1	WALK-IN COOLER	SEE SHOP DWGS	SEE SHOP DWGS	SEE SHOP DWGS	E.S.	G.C.	-
041B	1	WALK-IN FREEZER WITH 30" DOOR	WALK-IN VENDOR	SEE SHOP DWGS	SEE SHOP DWGS	E.S.	G.C.	-
042A	1	BAG-N-BOX	MBS	AR-10-2W-GLIDE	32"W x 19"D x 61"H	PEPSI	PEPSI	
042B	1	BULK Co2 TANK	NuCO2	CARBO CHARGER 300 LB.	47"H x 20" DIA	NuCO2	NuCO2	
042C	1	CARBONATOR	CORNELIUS	1624	12"W x 9"D x 10.5"H	PEPSI	PEPSI	
042C	1	CARBONATOR	CORNELIUS	1624	12"W x 9"D x 10.5"H	PEPSI	PEPSI	
042D	8	BAG N BOX PUMP	SHURFLO	PB8-SF	5.7"W x 3.8"D x 7.9"H	PEPSI	PEPSI	
042E	1	WATER BOOSTER PUMP	SHURFLO	804-023	10"W x 10"D x 13"H	PEPSI	PEPSI	
043F	10	SINGLE OVEN RACK (15 PAN CAPACITY) C-LIFT	MAGNA	APR1518/4RORC	18"W x 28.5"D x 73.125"H	OWNER	OWNER	-
043G	6	PULL THAW RACKS (20 PAN CAPACITY)	NEW AGE INDUSTRIAL	1331	20.375"W x 69.75"H x 26"D	OWNER	OWNER	-
044.2B.BR	1	DOUBLE DOOR PROOFER W/ RETARDER, 4 RACK	BAXTER	RPW2S-40.5	75.5"W x 43.3"D x 99.5"H	BAXTER	BAXTER/G.C.	
046R	1	BOH HOT BEVERAGE STATION (72"), RIGHT HAND	EAGLE	YPB-T3072-0019-00	72"W x 30"D x 39"H; 34.5"H COUNTER	E.S.	E.S.	H
047F	1	SS. TABLE W/OPEN BASE (24") (BETA)	EAGLE	YPB-T3324-0001-00	24"W x 33"D x 38"H	E.S.	E.S.	-
047G	1	SS. TABLE W/OPEN BASE (18") (BETA)	EAGLE	YPB-T3318-0001-00	18"W x 33"D x 38"H	E.S.	E.S.	
048A	1	SINGLE RACK OVEN/GAS (BETA)	Baxter	OV500G1	55"W X 83.5"D X 104"H	REVENT	BAXTER/GC	-
049B	1	24X24 ACCESS PANEL	BEST ACCESS DOORS	BA-AHD	24"W x 24"H x 1.5"D	G.C.	G.C.	V, W
052A	1	DUAL THICKNESS BREAD SLICER	OLIVER	758-N	38.25"W x 29.75"D x 54.25"H	E.S.	E.S.	
053F	2	68" SANDWICH PREP TABLE	RANDELL		68"W x 34"D x 48"H	E.S.	E.S.	-
053K	1	60" CATERING PREP COOLER W/ OVER-SHELF	RANDELL	8260NDWR	60"W x 34"D x 57"H	E.S.	E.S.	
053M	1	36" DRIVE THRU TOPPING STATION	RANDELL	11336PR-PANERA	36"W x 38"D x 36"H	E.S.	E.S.	
053MD	1	36" DRIVE THRU TOPPING STATION W/ DRAWER	RANDELL	11336PR-PANERA	36"W x 38"D x 36"H	E.S.	E.S.	
054	1	SODA/ICE DISP. (8HD)	CORNELIUS	IDC255 #621057438	30"W x 33.125"D x 40"H	PEPSI	PEPSI	-
054D	1	SODA/ICE DISP. (8HD) W/ ED175 ICE MAKER ADAPTER KIT	CORNELIUS	RENEW 175: #621058581	25.1"W x 31.5"D x 35.6"H	PEPSI	PEPSI	
055CHR	1	U.C. 1 DR REFRIGERATOR; RIGHT HAND HINGED	HOSHIZAKI	UR27A	27"W x 31"D x 32.25"H	E.S.	E.S.	N
055GHR	2	U.C. 1 DR REFRIGERATOR; RIGHT HAND HINGED	HOSHIZAKI	UR36A	36"W x 31"D x 32.25"H	E.S.	E.S.	N
055T	2	SALAD CRISPER	SILVER KING	SKDL18-RDUS4	17.62"W x 28.42"D x 36.39"H	E.S.	E.S.	A
056A	1	TEA BREWER	WILBUR CURTIS	TCTS10631	12.75"W x 20.75"D x 34"H	E.S.	G.C.	-
058A	2	COFFEE SERVER	BUNN	42700.0251	9.1"W x 11.9"D x 12.6"H	E.S.	E.S.	
058F	1	TWIN COFFEE BREWER	WILBUR CURTIS	G4TP1T19A3131	18"W x 16.625"D x 28"H	E.S.	G.C.	-
058H	2	1 GAL. COFFEE URN	WILBUR CURTIS	TXSG01	12.375"X9.125"X13.625"	E.S.	G.C.	
058J	5	COFFEE SERVER W/ STAND	BUNN	42700.0251 / STAND: 54473.1000	9.1"W x 11.9"D x 12.6"H	E.S.	E.S.	

EQUIPMENT SCHEDULE

ID TAG	QTY	DESCRIPTION	MANF.	MODEL #	DIMENSIONS	SUPPLIED	INSTALLED	NOTES
059A	2	EMPLOYEE LOCKER C-THRU	NCG DENSTOR	C-THRU LOCKER	12"W x 18"D x 78"H	E.S.	E.S.	J
060B	1	WHOLE BEAN COFFEE GRINDER	BUNN	MHG SST	9.4"W x 18.6"D x 29.1"H	E.S.	E.S.	
061	1	ESPRESSO MACHINE (SEMI-AUTOMATIC)	FRANKE	70009269-PNRA	13.4"W x 21.3"D x 29.5"H	OWNER	OWNER	
063C	2	HYBRID CONVECTION OVEN	SHARP	RCD1800M	17.5"W x 20.5"D x 13.675"H	E.S.	E.S.	
063D	1	MICROWAVE COMMERCIAL GRADE, 1550 WATTS, DIAL CONTROL	SHARP	R-21LCFS	20.5" x 16.0"D x 12.125"H	OWNER	E.S.	
064B	1	14 WELL, LEFT HAND DRY CHANNEL HIGH CAPACITY SOUP STATION	DUKE	HCSS-LH-208V	66"W x 34.1"D x 34.1"H	E.S.	E.S.	
067	5	INDOOR TRASH CONTAINER	RUBBERMAID	1011	20"W x 11"D x 30"H	S.W.	S.W.	
068A	1	SOUP RETHERMALIZER	ELKAY FOODSERVICE	RTB-14-SL-OPB	26 1/8"W x 30 1/8"D x 34"H	E.S.	G.C.	
075C	1	TOAST-QWIK ELECTRIC CONVEYOR TOASTERS	HATCO	TQ3-900H	14.7"W x 20.62"D x 17.13"H	E.S.	G.C.	
076C	2	SIMPLICITY BUBBLER - 3 BOWL	CRATHCO BY GMCW	CS-3L-16	20.4"W X 17.7"D X 29"H	E.S.	E.S.	
079D	1	SAFE	AMSEC	SK2014-857	30"H x 20"W x 20"D	E.S.	E.S.	
079E	1	TIDEL "SMART SAFE"	TIDEL	SERIES 3	10.25"W x 27.25"H x 19"D (28.13"D)	E.S.	E.S.	
080B	1	OFFICE FILE BOX				E.S.	E.S.	
081D	1	DOUBLE SIDED SALAD PREP TOP (74") WITH DOUBLE SIDED OVER SHELF	RANDELL	51368PR-PANERA-OS	74"W x 47.875"D x 38.65"H; 77.125" WITH SHELF	E.S.	E.S.	
082	1	BAGEL SLICER	OLIVER	702-N	30"W X 13"D X 21"H	E.S.	E.S.	
082C	1	BAGEL SLICER CHUTE	OLIVER	-	12.5"W x 33.3"D x 31.4"H	E.S.	E.S.	
082D	1	BAGEL SABER	PRINCE CASTLE	970-A SERIES	7"W x 10.75"W x 3.5"H	E.S.	E.S.	
083A	2	BLENDER	VITAMIX	03066	8.5"W x 10"D x 18"H (24.5"H WITH LID OPENED)	E.S.	E.S.	
084N6	2	MODIFIED BREAD SHELF	RANDELL	4SHEBREAD-68-PANERA-5	68"W x 16.25"D x 22.125"H	E.S.	G.C.	
084TA	1	STAINLESS STEEL WALL SHELF	EAGLE	YPB-0314-00	56"W x 18.875"D x 2.25"H	E.S.	G.C.	
085A	1	HEATED SHELF	Hatco Corporation	GRS-18-I	18"W X 19.5"D X 2.25"H	E.S.	E.S.	
085B	1	EGG STATION	ROUND UP	ES-600	16.6"W x 18.4"D x 7.25"H	ROUNDUP	E.S.	-
085G	1	HEATED SHELF	Hatco	GRSS-1806	6"W x 18"D x 2.523"H	E.S.	E.S.	
085H	2	TURBOCHEF DOUBLE BATCH OVEN	TURBOCHEF	HHO-9500-21	31.7"D x 27.7"W x 23.2"H	E.S.	E.S.	
085M	2	MERCO HOT HOLDING UNIT	MERCO	MHT32SST1W	20.5"W x 13"D x 16.9"H	E.S.	E.S.	
089	1	SCALE	NOT PROVIDED (TAYLOR)	TE10FT/TE32FT	10.5"W x 7.5"D	NOT PROVIDED	NOT PROVIDED	NOT PROVIDED
092J	1	T-LINE CONSOLIDATOR TABLE W/SMART WALL	METRO	INSTR-PAN5836-TLINE	58.5"W x 36"D x 77.5"H	E.S.	G.C.	
095E	1	CATERING STATION - 30"	EAGLE	YPB-0194-00	30"W x 30"D x 72"H	E.S.	E.S.	-
097E	1	OASIS IN-COUNTER REFRIGERATED GRAB AND GO	STRUCTURAL CONCEPTS	CO3324R-UC	36.25"W x 24.125"D x 32.75"H	E.S.	E.S.	
098B	1	AM PRODUCTION TABLE W/ GRID	METRO	INSTR-3036AMDTPS-WBG	36.25"W x 30.5"D x 67.75"H	E.S.	E.S.	
122	1	OFFICE CHAIR	-	-	-	OWNER	OWNER	
127B	2	WALL-MOUNT OPEN FRAME RACK	TRIPP-LITE		20.11"W x 18.24"D x 24.8"H	OWNER	OWNER	
128	1	13" CCTV MONITOR	VIEWSONIC	VA503B	13.2"W x 13.7"D x 5.8"H	UAS	UAS	
401DR	1	RIGHT HAND ORDER TAKER BEVERAGE TABLE, DRIVE THRU	EAGLE	YPB-T3272-0011-00	72"W x 32"D x 40.5"H	E.S.	E.S.	
402GR	1	82" DRIVE THRU CASHIER TABLE WITH GRID; RIGHT HAND	METRO		82"W x 30.75"D x 62.5"H	E.S.	E.S.	
403HL	1	108" LH ESPRESSO BAR	EAGLE	YPB-OB3072-0010-00	108"W x 30"D x 35.3125"H	E.S.	E.S.	
407	1	PASS THRU WINDOW (DRIVE THRU) W/ POWER SUPPLY IN LEFT HAND HAMB, THRU BEAM PHOTO ELECTRONIC EYE BAR & 5/8" INSULATED TEMPERED GLAZING (BRONZE TINT), FRAME SHALL BE INSULATED & HAVE A CLEAR ANODIZED ALUM. FINISH	QUICKSERV CORP	FM-42E	42"W x 40"T x 25.375"D	G.C.	G.C.	
440A	1	DRIVE THRU CONSOLIDATION SWEETS RACK (7 PAN CAPACITY)	EAGLE	YPB-RACK-0005-00	20.5"W x 26"D x 33.5"H	E.S.	E.S.	-
441A	2	Z TYPE NESTING RACK (20 PAN CAPACITY)	NEW AGE INDUSTRIAL CORP.	51358	21"w x 26"D x 69.625"H	OWNER	OWNER	
458A	3	COFFEE SHUTTLES W/O RACK	GRINDMASTER	SS-1.9LD / SS-1.9LR / DR-2SU	DECANTER: 6.5"R x 7.25"H	E.S.	G.C.	-
460	1	DRIVE THRU TIMER/PC	HYPERACTIVE	CUSTOM	21.7"W x 6.8"D x 18"H	E.S.	E.S.	-
461	1	WIRELESS DRIVE THRU AUDIO COMMUNICATION SYSTEM	HM ELECTRONICS, INC	WIRELESS 6000	12"X 8" X 3.8"D x 7.8"H	E.S.	E.S.	-
462B	1	ORDER READY MONITOR	NEC	Ea273WMBK	14.6"W x 24.9"H x 2.5"D	OWNER	OWNER	C - PORTRAIT ORIENTATION -
463	1	SECURITY FLAT SCREEN MONITOR 17"	CLINTON ELECTRONICS	V1768U	14.88"W x 1.91"D x 12.50"H	E.S.	E.S.	
466A	2	WALL BRACKET FOR DOME CAMERA	UAS	VX-WB / VX-WBB	4.33"W x 7.41"D x 4.33"H	NOT PROVIDED	NOT PROVIDED	
466A	2	WALL BRACKET FOR DOME CAMERA	UAS	VX-WB / VX-WBB	4.33"W x 7.41"D x 4.33"H	NOT PROVIDED	NOT PROVIDED	-
CWVS	1	ROPE MONITOR	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	OWNER C
F-11	1	CENTRAL BANQUETTE; FINISH: WD-1, BASE: PC-3, SEAT: FB-1, GL-1	CUSTOM BY MW VENDOR.	CUSTOM BY MW VENDOR.		C.S	C.S.	
F-12	5	CENTRAL BANQUETTE - BACK CUSHION; FINISH: FB-1 & FB-2, SCREWS TO MATCH PMS 9184C	CUSTOM BY MW VENDOR.	CUSTOM BY MW VENDOR.		C.S	C.S.	
F-17	1	CORNER BANQUETTE; FINISH: WD-1, BASE: PC-3, SEAT: FB-1	CUSTOM BY MW VENDOR	CUSTOM BY MW VENDOR.		C.S	C.S.	
KD1	2	SANDWICH 1 MONITOR	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD2	1	SALAD 1 MONITOR	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD3	1	MAIN CONSOLIDATOR MONITOR	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD3R	1	MAIN CONSOLIDATOR MONITOR (REPEATER)	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD4	1	CONSOLIDATOR MONITOR	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD4R	1	CONSOLIDATOR MONITOR (REPEATER)	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD5	1	SANDWICH 2 MONITOR	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD6	1	DRIVE THRU CONSOLIDATOR MONITOR	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD11	1	SALAD 2 MONITOR	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD13	1	TURBOCHEF 1 MONITOR	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD14	1	TURBOCHEF 2 MONITOR	LG	23MB35PM-B	21.6"W x 2.4"D x 13.2"H	OWNER	OWNER	C
KD15	1	ORDER STATUS MONITOR (RPU)	LG	27BK550Y-B	14.6"W x 2.3"D x 24.5"H	OWNER	OWNER	C
MB	1	MOP BUCKET				C.S.	C.S.	
PAN-UP CART	1	PAN-UP CART	SHURFLO		36"W x 26"D x 34"H	PEPSI	PEPSI	

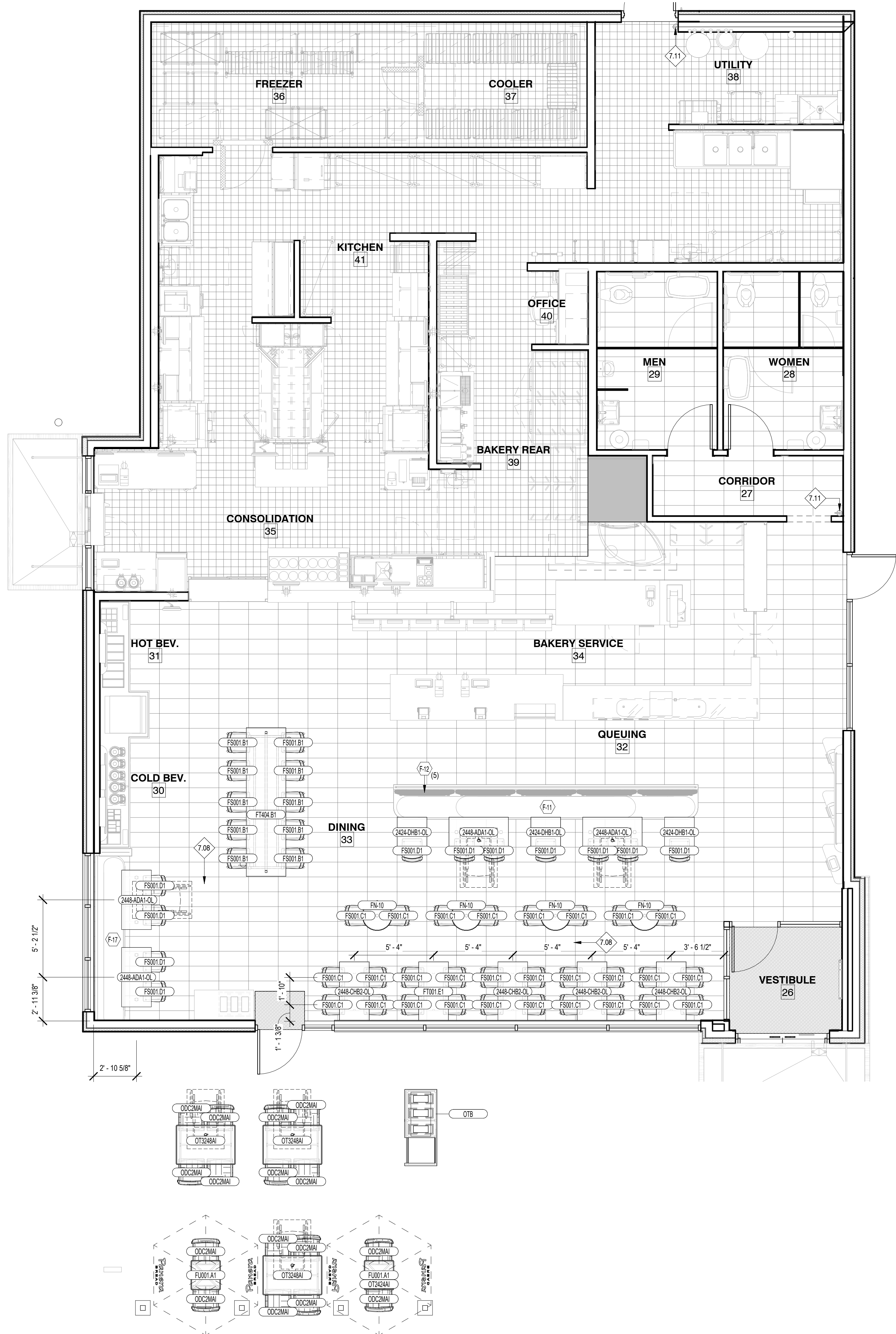
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PR 2021.03.11



## 24 FURNITURE PLAN

1/4" = 1'-0"



## GENERAL NOTES:

- A. G.C. TO PROVIDE MANAGER OFFICE LAMINATE TOP. ALMOND COLOR PREFERRED; WHITE ALLOWED IF ALMOND IS NOT AVAILABLE. REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION.
- B. FIELD CONFIRM LENGTH OF BANQUETTE(S) PRIOR TO PRODUCTION AND INSTALLATION

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

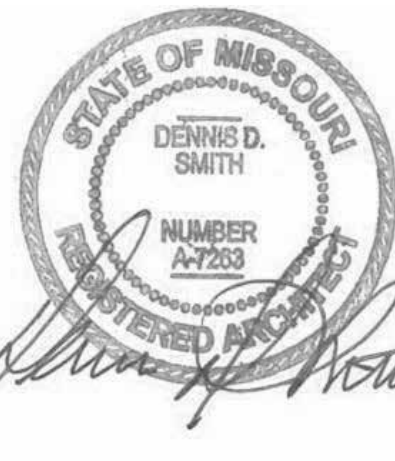


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Professional Seal:



Project Title:

**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086

PROTOTYPE - NEW CONSTRUCTION - SHELL

## SERVICE REQUIREMENTS:

**TABLE SERVICE:**  
APPLICABLE TO THIS MARKET? YES

**CO2 MONITORING:**  
IS THIS REQUIRED? NO

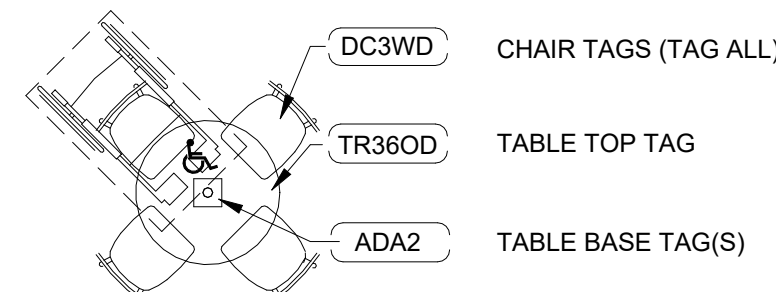
**CAL133:**  
IS THIS REQUIRED? NO

**DESIGN NOTES:**

## FUNITURE PLAN LEGEND:

- XXX ROOM NUMBER SYMBOL
- REL RELOCATION INDICATION, ADDED TO SYMBOLS
- FURN-ID FURNITURE IDENTIFICATION SYMBOL
- XXX DOOR NUMBER SYMBOL
- FABRIC DESIGNATION SYMBOL (SEE SHEET A600)

TYPICAL TABLE TAGGING EXAMPLE:



No.	Description	Date
1	PERMIT SET - TI	7/18/2022

## FURNITURE PLAN

Project Number:

Sheet Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DFM:

DM:

CPM:

DPM

DM

CPM

A710

FINISH MILLWORK SCHEDULE			
ID TAG	DESCRIPTION	FINISH	LOCATION

WOOD/STEEL SCHEDULE			
ID TAG	QTY	DESCRIPTION	LOCATION
MW102.A1	1	HERITAGE BAKERY BASE UNIT	POS
MW106.R1	1	POS GNG COUNTER; (2) REGISTER, 139.5"W; RIGHT HAND	POS
MW107.R1	1	BAKERY BASE UNIT, 151"W; RIGHT HAND	POS
MW109.L1	1	BAKERY TABLE, 36"D x 109"W; LEFT HAND	BAKERY
MW110.A1	1	BAKERY MIRROR; 18x72	POS/BAKERY
MW111.R1	2	G4 BAKERY SNEEZE GUARD; RIGHT HAND, 113"W x 32"D	POS/BAKERY
MW130.A1	1	MENU BOARD HOLDER	POS/BAKERY
MW140.A1	1	OVEN SHROUD W/ ENGRAVED MB LOGO	BAKERY
MW201.A1	1	BAKERY SERVICE DOUBLE-ACTING GATE	BAKERY
MW323.A1	1	RPU SHELVING; 18.5x72	POS
MW324.A1	1	RPU SHELVING; 20x64	EXPO
MW401.R1	1	200" COMBINED BEVERAGE STATION; RIGHT HAND	BEVERAGE AREA
MW606.A1	1	(3) BIN TRASH STATION	DINING
MW715.A1	1	DIVIDER PANEL	FOH
MW803.A1	3	SINGLE KIOSK DRAWER	FOH
MW807	1	PHONE BOX-RECESSED	AS NEEDED
MW931.A1	1	DISCOVERY SHELF; 87"W	FOH
MW931.B1	1	DISCOVERY SHELF; 78"W	FOH
MW931.C1	1	DISCOVERY SHELF; 43"W	FOH
MW935	2	46H X 26W RESTROOM MIRROR FRAME	RESTROOM

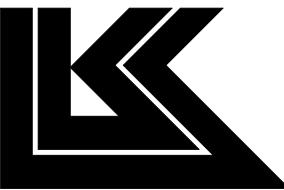
FURNITURE SCHEDULE									
ID TAG	QTY	DESCRIPTION	MANUF.	SUPPLIED BY	FINISH	METAL	LAMINATE	ELECT. REQ'D	
ADA1	8	ADA "T" LEG BASE	FDS	FDS		BLACK POWDER COAT	N/A		
CHB2	5	COUNTER HEIGHT 22" X 30" METAL CROSS BASE	FDS	FDS		BLACK POWDER COAT	N/A		
DHB1	3	DINING HEIGHT 22" X 22" METAL CROSS BASE	FDS	FDS		BLACK POWDER COAT	N/A		
FN-10	4		GRAND RAPIDS CHAIR COMPANY		FORMICA SOLID SURFACE DALMATA TERRAZZO MATRIX	N/A	N/A		
FS001.B1	10	BAR HEIGHT STOOL; LOFT; DUSTY GREEN	MUUTO/CI SELECT	GROUP O	CLEAR OAK	DUSTY GREEN	N/A		
FS001.C1	8	COUNTER HEIGHT STOOL; LOFT; DUSTY GREEN	MUUTO/CI SELECT	GROUP O	CLEAR OAK	DUSTY GREEN	N/A		
FS001.C1	20	COUNTER HEIGHT STOOL; LOFT; DUSTY GREEN / OAK	MUUTO/CI SELECT	GROUP O	CLEAR OAK	DUSTY GREEN	N/A		
FS001.D1	11	DINING CHAIR; LOFT; DUSTY GREEN	MUUTO/CI SELECT	GROUP O	CLEAR OAK	DUSTY GREEN	N/A		
FT001.A1	3	24" SQUARE WHITE OAK TABLE	VIRIDIAN	GROUP O	OAK - LIGHT	PER PLAN	N/A		
FT001.E1	9	24" X 48" WHITE OAK BOOTH TABLE	VIRIDIAN	GROUP O	OAK - LIGHT	PER PLAN	N/A		
FT404.B1	1	120 X 32 GATHERING TABLE - BAR	CHARLES TON FORGE	GROUP O	OAK - LIGHT	METAL LEGS	N/A	Yes	
FU001.A1	2	HEXAGONAL EXTERIOR PATIO UMBRELLA W/ 24" ROUND BASE - 7x7	TRESCO	TRESCO	GRASS GREEN	N/A	N/A		
ODC2MAI	16	G4 OUTDOOR DINING CHAIR DARWIN #521	EMU	FDS	ANTIQUE IRON		N/A		
OT2424AI	2	EXTERIOR TABLE CAMBI #800; 24" x 24"	EMU	FDS	ANTIQUE IRON	STEEL MESH TOP	N/A		
OT3248AI	3	EXTERIOR TABLE CAMBI ADA #836; 32" x 48"	EMU	FDS	ANTIQUE IRON	STEEL MESH TOP	N/A		
OTB	1	OUTDOOR TRASH & BUSSING	FDS	FDS	WOOD SLAT	-	-		

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

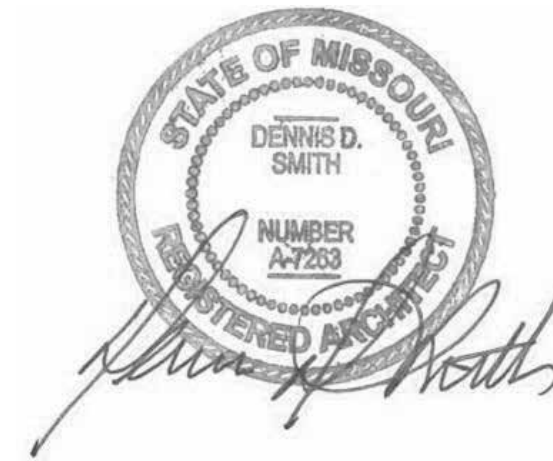


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Project Title:

PROTOTYPE - NEW CONSTRUCTION - SHELL  
**Bakery Cafe #2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

FURNITURE &  
WOOD/STEEL  
SCHEDULES

Project Number:

22169

Drawn By:

Author:

Issue Date:

07/05/2022

DFM:

DPM

Sheet Number:

A711

DM:

DM

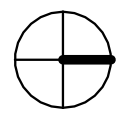
CPM:

CPM

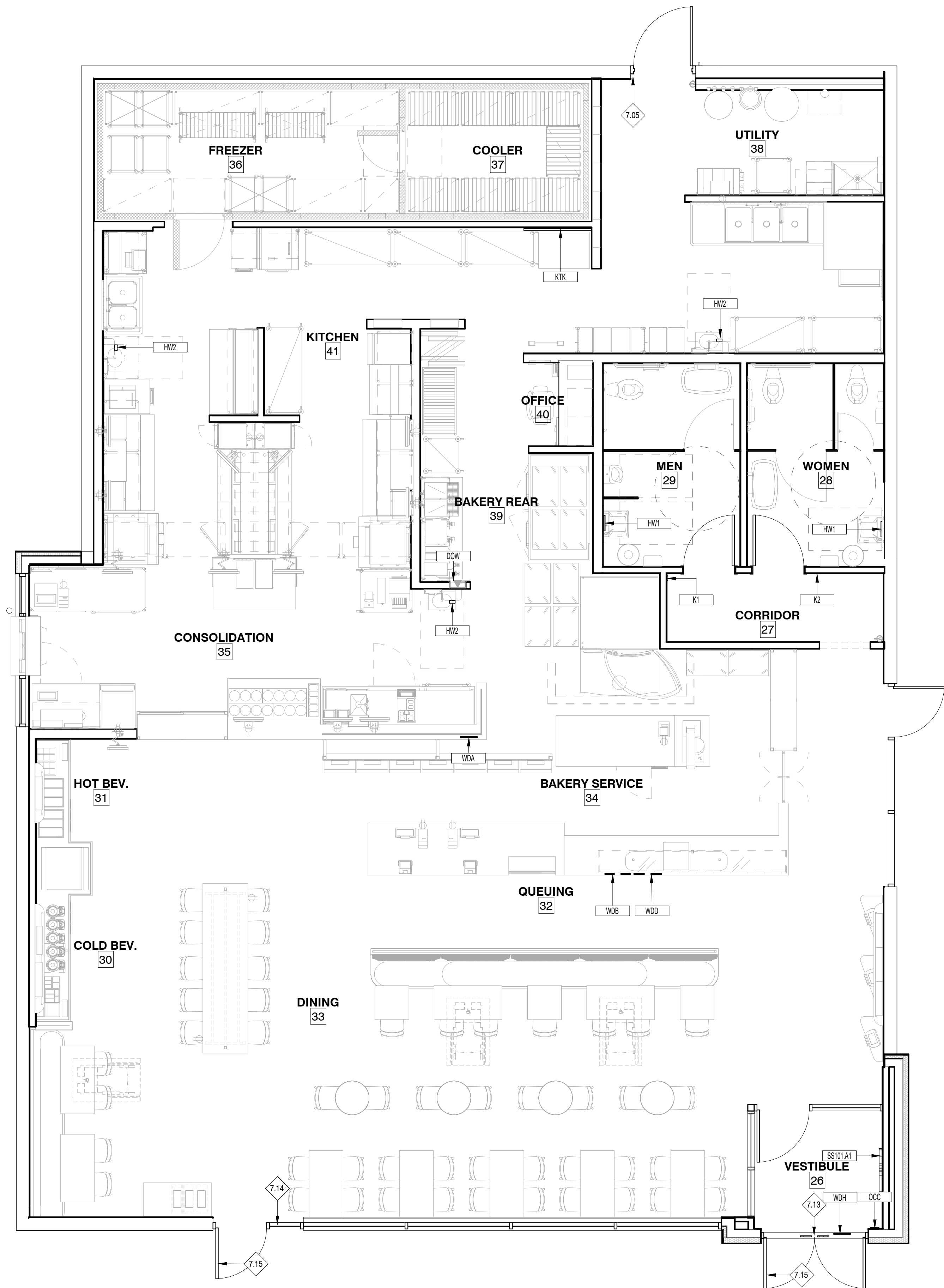


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1/4" = 1'-0"



GENERAL NOTES:

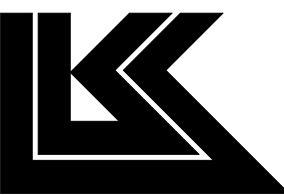
- A. ALL SIGNS WILL BE PROVIDED BY OWNER TO G.C. FOR INSTALLATION.
- B. VENDOR WILL VERIFY ALL QUANTITIES AND CURRENT GRAPHIC DESIGNS WITH OWNER PRIOR TO FABRICATING.
- C. REFERENCE INTERIOR ELEVATIONS FOR SIGNAGE PLACEMENT.

Bakery-Cafe:

22169

SYSTEM: G4 (ARIA)

Project Team:

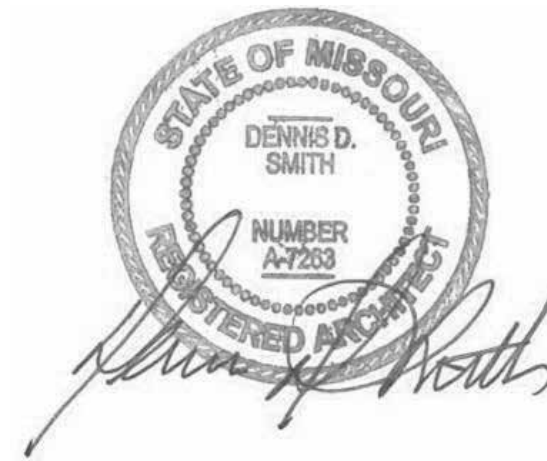


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PROTOTYPE - NEW CONSTRUCTION - SHELL  
**Bakery Cafe #2406**  
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LEES SUMMIT, MO 64086



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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

ARTWORK &  
GRAPHICS PLAN

Project Number:

22169

Drawn By:

Author

Issue Date:

07/05/2022

DFM:

DPM

Sheet Number:

A720

DM:

DM

CPM:

CPM

ARTWORK SCHEDULE				
ID TAG	QTY	DESCRIPTION	SUBSTRATE & MOUNTING	MATTE Y/N

ARTWORK TO BE DETERMINED

**14 BUILDING ENTRANCE SIGN**

3/8" = 1'-0"

Diagram illustrating the placement of tactile exit signs on a door and wall:

- Door Sign:** A square sign with a white background and a blue wheelchair symbol. Dimensions: 6" wide, 6" high.
- Wall Sign:** A rectangular plaque with a blue background and white text. Dimensions: 6'-0" MAX high, 4" wide.
- Sign Placement:** The door sign is mounted on the door. The wall sign is mounted on the wall, directly to the right of the door.
- Sign Text:** The door sign contains the International Symbol of Accessibility (wheelchair symbol). The wall sign contains the text "TO EXIT" and "EXIT ROUTE".

**10 EXIT SIGNAGE**

1/4" = 1'-0"

Diagram illustrating the placement of tactile exit signs on a door and wall:

- Door Sign:** A square sign with a white background and a blue wheelchair symbol. Dimensions: 6" wide, 6" high.
- Wall Sign:** A rectangular plaque with a blue background and white text. Dimensions: 6'-0" MAX high, 4" wide.
- Sign Placement:** The door sign is mounted on the door. The wall sign is mounted on the wall, directly to the right of the door.
- Sign Text:** The door sign contains the International Symbol of Accessibility (wheelchair symbol). The wall sign contains the text "TO EXIT" and "EXIT ROUTE".

Technical drawing showing three rows of peel patterns. Each row contains three identical peels. The top row shows the peels with a 4-inch spacing detail between them. The middle row shows the peels with a 4-inch spacing detail between them. The bottom row shows the peels with a 4-inch spacing detail between them. The drawing is labeled '12 | PEEL SPACING DETAIL' and includes a scale '1" = 1'-0"

**MAXIMUM  
OCCUPANCY  
XXX**

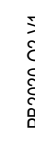
12" x 7" ACRYLIC PANEL OCCUPANCY SIGN  
WHITE GRAPHICS ON BLUE BACKGROUND.  
INSTALL AT 60" A.F.F. ADJACENT TO ENTRANCE DOORS

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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

0

# A721



1. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES IN LOCATING DUCTWORK, PIPING AND EQUIPMENT TO AVOID ANY INTERFERENCE.
2. COORDINATE INSTALLATION OF NEW DUCT W/ STRUCTURE.
3. CONTRACTOR TO INSTALL ALL WORK IN STRICT COMPLIANCE WITH LOCAL CODES AND ORDINANCES.
4. MECHANICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIPMENT SUBMITTAL PRIOR TO INSTALLING OR FABRICATING ANY DUCTWORK.
5. PAINT INSIDE OF DIFFUSERS BLACK TO MINIMIZE VIEWING OF DUST AND DIRT.
6. PROVIDE FIBERGLASS INSULATION BLANKET ABOVE TOPS OF ALL SUPPLY AIR DIFFUSERS.
7. PROVIDE ADJUSTABLE VOLUME DAMPER AT ALL BRANCH DUCTWORK.
8. PROVIDE TURNING VANES AT ALL RECTANGULAR ELBOWS ( TYPICAL).
9. MECHANICAL CONTRACTOR TO REPLACE FILTER AFTER CONSTRUCTION IS COMPLETED.
10. CONTRACTOR TO PAINT ANY EXPOSED DUCT/DIFFUSERS WITHIN F.O.H. REFER TO ARCHITECTURAL RCP FOR PAINT INFO.

M001 SHELL CONTRACTOR PROVIDED ROOF TOP UNIT AS SHOWN IN SCHEDULE ON SHEET M001.

M002 SHELL CONTRACTOR PROVIDED U.L. LISTED IONIZATION TYPE SMOKE DETECTORS INTERLOCKED W/ RTU CONTROLS TO SHUT RTU DOWN UPON ACTIVATION OF DETECTOR.

M003 CONTRACTOR TO PROVIDE AND INSTALL ONE PIECE THERMOSTAT (C05TAT06FF1L COMMUL TOUCHSCREEN TSTAT) WITH WALL MOUNTED SENSOR AND CONTROLLER MOUNTED IN OFFICE. COORDINATE LOCATIONS WITH OTHER ELEMENTS OF WALL/COLUMN. VERIFY EXACT LOCATION IN FIELD. COORDINATE WITH OWNER REPRESENTATIVE. MOUNT SENSOR AS SHOWN ON PLAN (54" A.F.F.). ON PROJECTS USING ONE-PIECE THERMOSTATS, THE MOUNTING HEIGHT IS 48" PER ADA. DO NOT LOCATE SENSOR/STAT ON WALL TILE. T-STAT WIRING SHALL ROUTE THRU CPI PANEL. COORDINATE EXACT REQUIREMENTS WITH CPI REPRESENTATIVE.

M004 TYPE-II HOOD FOR RACK OVEN, PROVIDE 10" DIA. TO 12" DIA. DOUBLE WALL GALVANIZED STEEL EXHAUST DUCT PER MANUFACTURER'S RECOMMENDATIONS EXTEND AND CONNECT TO VENT STUBBED THROUGH ROOF BY SHELL CONTRACTOR. FAN SHALL BE INTERLOCKED WITH OVEN SUCH THAT FAN ONLY RUNS WHEN OVEN IS ON. SEE FAN SCHEDULE ON SHEET M01 AND OVEN DETAILS ON SHEET M301 AND M302. BALANCE EF-1 TO 900 CFM.

M005 DIRECT VENT CLOSED COMBUSTION FLUE AND COMBUSTION PVC LINES FROM WATER HEATER EXTEND AND CONNECT OT PIPES STUBBED THROUGH ROOF BY SHELL CONTRACTOR. SEE DETAIL SHEET M401.

M006 EXTEND AND CONNECT EXHAUST DUCT SIZED AS SHOWN TO EXHAUST DUCT STUBBED THROUGH ROOF BY SHELL CONTRACTOR. SEE FAN DETAIL SHEET M401 AND FAN SCHEDULE ON SHEET M201. PROVIDE CONTROL RELAY AND INTERLOCK WITH KITCHEN LIGHTING CIRCUIT. SEE WIRING DIAGRAM ON SHEET M301. FIELD VERIFY.

M007 ROUTE DUCT/WORK THROUGH JOIST WEBBING. COORDINATE EXACT LOCATIONS IN FIELD.

M008 PAINT DIFFUSERS IN DINING AREA TO MATCH CEILING. SEE ARCHITECTURAL DRAWING FOR COLOR.

M009 INSTALL DISHWASHER TYPE - II HOOD. SEE FAN SCHEDULE SHEET AND DETAIL SHEET M301 AND M302. INSTALL 10" DIA. (22 GA. STAINLESS STEEL OR ALUMINUM) EXHAUST DUCT TO EXHAUST DUCT STUBBED THROUGH ROOF BY SHELL CONTRACTOR. DISHWASHER HOOD IS FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. SEE SHEETS M102, M302 FOR DISHWASHER VENTILATION INFORMATION.

M100 16" B-TYPE VENT PIPE FOR GAS FIREPLACE (STELLAR MANUFACTURE #6-RD-OH-R) TO BE SIZED AND INSTALLED PER MANUFACTURERS RECOMMENDATION. EXTEND FLUE UP THRU ROOF TO MINIMUM OF 2'-0" FROM HIGH POINT OF ROOF TO LOW POINT OF DISCHARGE. TERMINATE PER MANUFACTURERS RECOMMENDATION. KEEP OUTLET 10'-0" MINIMUM FROM ANY AIR INTAKE. VERIFY LOCATION. TOTAL NATURAL GAS INPUT FOR THIS FIREPLACE SHALL BE 100,000 BTU/H. FIREPLACE OPERATION TO BE INTERLOCKED WITH HVAC.

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# M101



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TENANT INTERIOR  
HVAC SPECIFICATIONS

NOTE: MANUFACTURERS' NAMES ON WHICH THIS SPECIFICATION IS BASED INDICATE THE MINIMUM QUALITY OF PRODUCT REQUIRED. SUBSTITUTION MAY BE MADE TO THOSE SPECIFIED IF DEEMED EQUIVALENT BY THE OWNERS REPRESENTATIVE. ALL WORK AND PRODUCTS SHALL MEET THE REQUIREMENTS OF THE OWNER AND GOVERNING CODES.

- ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH ALL APPLICABLE CODES AND THE OWNERS MINIMUM REQUIREMENTS AS STATED HEREIN OR OTHERWISE INDICATED BY THE OWNER.
- SEE ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS. ALL CONDITION REQUIREMENTS SHALL APPLY UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE PERFORMED AS INDICATED ON DRAWINGS UNLESS FIELD CONDITIONS REQUIRE MINOR CHANGES BE MADE. MINOR CHANGES SHALL BE MADE WITH NO ADDITIONAL COST.
- ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
- CONTRACTOR SHALL PREPARE AND SUBMIT AS-BUILT DRAWINGS TO THE OWNER WITHIN 90 DAYS. AS-BUILT DRAWINGS SHALL INDICATE THE ACTUAL MANUFACTURER OF THE EQUIPMENT THAT WAS INSTALLED. THE EXACT LOCATION OF THE EQUIPMENT AND PERTINENT CAPACITIES FOR HEATING, COOLING, ETC.
- EQUIPMENT, FIXTURES, AND ACCESSORIES SHALL NOT BE SUPPORTED FROM CEILING, SOFFIT, NEUTRAL PIERS, PIPING, DUCT-WORK, METAL ROOF DECK, LATERAL BRACING, BRIDGING OR CONDUIT. ITEMS SHALL ONLY BE SUPPORTED FROM STRUCTURE WHICH HAS BEEN APPROVED BY THE ARCHITECT FOR SUPPORT.
- ALL ROOF WORK PENETRATIONS AND REPAIRS SHALL BE TOTALLY PERFORMED BY ONLY THOSE ROOFING CONTRACTORS APPROVED BY THE GENERAL CONTRACTOR.
- INSTALLATION OF ROOF MOUNTED EQUIPMENT SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- DEFICIENCIES AND NON-CONFORMING ITEMS SHALL BE CORRECTED BY THE CONTRACTOR. FAILURE TO CORRECT SUCH ITEMS SHALL PERMIT THE LANDLORD TO CORRECT SAME AT A COST TO THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS AND PAYING FOR SAME. HE SHALL INCLUDE IN HIS BID CHARGES FOR ALL FEES ASSOCIATED WITH THE CONSTRUCTION OF THE SPACE INCLUDING BUT NOT LIMITED TO LOCAL, COUNTY, OR STATE SERVICE CHARGES AND PERMIT FEES, AND UTILITY AND/OR EQUIPMENT CHARGES.
- THE SCOPE OF WORK OF THIS CONTRACT INCLUDES, BUT SHALL NOT BE LIMITED TO:

PROVIDE AND INSTALL ALL EQUIPMENT, APPLIANCES, CONTROL DEVICES, ACCESSORIES, MATERIAL AND LABOR.

PROVIDE AND INSTALL ALL DUCTWORK, INSULATION, AIR DEVICES, DUCT ACCESSORIES, MATERIAL AND LABOR.

PROVIDE AND INSTALL ALL PIPING, FITTINGS, VALVES, INSULATION, ACCESSORIES, MATERIAL AND LABOR.

PROVIDE AND INSTALL EXHAUST SYSTEM(S) INDICATED.

PROVIDE AND INSTALL ALL ROOF WORK, INCLUDING EQUIPMENT SUPPORTS, ROOF PENETRATIONS, PATCHING AND WATERPROOFING OF ROOF.

PROVIDE ALL EQUIPMENT SUPPORTS AND HANGERS INCLUDING ANY AUXILIARY STEEL REQUIRED. ANY STRUCTURAL MODIFICATION TO THE BUILDING STRUCTURE SHALL BE MADE ONLY WITH THE WRITTEN APPROVAL OF THE LANDLORD.

CLEAN, TEST AND PUT INTO SERVICE ALL SYSTEMS SPECIFIED.

PROVIDE A BALANCE REPORT PREPARED BY AN INDEPENDENT AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR. PROVIDE CERTIFIED BALANCE REPORT TO BUILDING OFFICIAL AND ENGINEER OF RECORD UPON COMPLETION.

WARRANTY ALL WORK AND MATERIALS HEREIN SPECIFIED FOR A PERIOD OF NOT LESS THAN ONE YEAR.

12. MATERIALS

12.1 ALL MATERIALS SHALL BE NEW AND OF RECOGNIZED COMMERCIAL QUALITY. USED MATERIALS WILL NOT BE PERMITTED.

12.2 DUCTWORK

EXPOSED ROUND/SPIRAL DUCTWORK SHALL BE CONSTRUCTED OF NEW DOUBLE WALL INSULATED GALVANIZED PRIME GRADE SHEET STEEL.

ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE LATEST EDITION OF THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE), FABRICATED AND INSTALLED IN ACCORDANCE WITH THE METHODS RECOMMENDED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION. DUCT WORK SHALL BE SHEET METAL EXTERNALLY WRAPPED WITH 2-1/2" THICK FIBERGLASS (75 LB. DENSITY) INSULATION HAVING A MIN. R VALUE OF 8.0; FOIL FACED INSULATION HAVING A MIN. R VALUE OF 6.0.

NEW 2-1/2" THICK EXTERNALLY (.75 "LB. DENSITY) WITH MIN. VALUE OF R-6.0 INSULATED "LOW PRESSURE" SUPPLY AIR DUCT. INSTALLED BY HVAC CONTRACTOR. PROVIDE TRANSITIONS AS REQUIRED. DUCT DIMENSIONS ARE CLEAR INTERNAL AIR PATH DIMENSIONS.

FLEXIBLE AIR DUCT FOR CONNECTIONS BETWEEN S.M. DUCT AND DIFFUSER SHALL BE AIR DUCT LISTED BY UNDERWRITERS LABORATORIES UNDER UL STANDARD 181 AS A CLASS 1 FLEXIBLE AIR DUCT AND COMPLYING WITH NFPA STANDARDS 90A AND 90B. DUCT SHALL BE FACTORY MADE AND COMPOSED OF A CPE LINER DUCT PERMANENTLY BOUNDED TO A COATED SPRING STEEL WIRE HELIX AND SUPPORTING A FIBER GLASS INSULATING BLANKET R-6.0. LOW PERMEABILITY OUTER VAPOR BARRIER OF FIBER GLASS REINFORCED FILM LAMINATE SHALL COMPLETE THE COMPOSITE.

DUCTWORK 18" WIDTH AND LARGER SHALL BE CROSS-BROKEN OR RIBBED AND STIFFENED SO THAT IT WILL NOT "BREATHE", RATTLE, VIBRATE OR SAG.

FIBERGLASS DUCTWORK WILL ONLY BE PERMITTED WITH THE APPROVAL OF THE OWNER, ARCHITECT, AND ENGINEER.

ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS; MECHANICAL FASTENERS WITH SEALS, GASKETS, OR TAPES. TAPES MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF SUPPLY AND RETURN DUCTS OPERATING AT STATIC PRESSURES LESS THAN OR EQUAL TO 2" W.G. SHALL BE SECURELY FASTENED AND SEALED WITH WELDS GASKETS OR TAPES. MECHANICAL FASTENERS AND SEALS OR GASKETS MUST BE USED WHEN CONNECTING DUCTS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT.

INSTALLED IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION AND ANSISMACNA 008-2006 HVAC DUCT CONSTRUCTION STANDARDS.

12.3 FLEXIBLE DUCTWORK

SHALL HAVE AN IMPERVIOUS INNER CORE WITH WIRE REINFORCEMENT. THE INNER DUCT SHALL BE COVERED WITH 1-1/2" THICK FIBERGLASS DUCT INSULATION WITH A POLY-ETHYLENE VAPOR-PROOF JACKET. FLEXIBLE DUCT SHALL BE UL-181 LISTED, CLASS 1, AND SHALL MEET ALL APPLICABLE CODES AND THE REQUIREMENTS OF THE LANDLORD.

FITTINGS TO CONNECT THE FLEX DUCT TO THE TRUNK DUCT SHALL BE OF THE 45° LEAD-IN TYPE PER THE LATEST OF SMACNA STANDARDS AND SHALL HAVE AN OPPOSED BLADE VOLUME DAMPER. SQUARE-TO-ROUND TRANSITION AND SHALL HAVE THE SAME FREE AREA AS THE SPECIFIED FLEX DUCT.

FLEX DUCT SHALL BE THE PRODUCT OF AN ESTABLISHED MANUFACTURER OF SUCH PRODUCTS AND EQUIVALENT TO CERTAINTIED MODEL G-25, WIREMOLD WGC, OR PPG GOSSFLEX.

12.4 DUCT INSULATION

ALL SUPPLY AND RETURN AIR DUCTWORK (EXCEPT FLEXIBLE DUCTS) SHALL BE INSULATED EXTERNALLY UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. EXTERNAL DUCT INSULATION (DUCT WRAP) SHALL BE 1-1/2" THICK FIBERGLASS DUCT WRAP WITH VINYL OR FSK FACING. DUCT WRAP SHALL HAVE A K-FACTOR OF .28 AT 75°F MEAN AND A DENSITY OF .75 LB./C.F.

ALL DUCT INSULATION SHALL BE UL LABELED FOR FIRE AND SMOKE RATINGS.

DUCT INSULATION SHALL BE EQUAL TO PRODUCTS MANUFACTURED BY CERTAINTIED AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.

NOTE: ALL RESTAURANT DUCTWORK SHALL BE EXTERNALLY INSULATED - NO INTERNAL INSULATION ALLOWED.

12.5 PIPING AND FITTINGS

CONDENSATE DRAIN PIPING SHALL BE TYPE L COPPER WITH SOLDERED JOINTS AND WROUGHT COPPER FITTINGS.

13. EQUIPMENT

HVAC EQUIPMENT SHALL BE AS SCHEDULED ON THE DRAWINGS AND/OR SPECIFIED HEREIN. EQUIVALENT EQUIPMENT AND/OR COMPONENTS THEREOF MAY BE SUBSTITUTED FOR SPECIFIED EQUIPMENT ONLY AS APPROVED BY THE OWNER AND/OR THE PROJECT ENGINEER.

14. EXECUTION

14.1 GENERAL

ACCESSIBILITY - ALL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT ALL COMPONENTS REQUIRING ACCESS ARE LOCATED AND INSTALLED THAT THEY MAY BE SERVICED, RESET, REPLACED, OR RECALIBRATED, ETC., BY SERVICE PEOPLE WITH NORMAL SERVICE TOOLS AND EQUIPMENT.

WORK BY OTHER TRADES - FOR THE WORK REQUIRED BY OTHER TRADES FOR CHANGES MADE BY THIS CONTRACTOR IN TYPE OR SIZE OF EQUIPMENT PURCHASED, ANY CUTTING, PATCHING, FURRING, PAINTING, ELECTRICAL OR PLUMBING WORK SHALL BE DONE BY THE AFFECTED TRADE AT THIS CONTRACTORS EXPENSE.

WORK NOT INCLUDED - POWER WIRING, INCLUDING FINAL CONNECTIONS, IS BY THE ELECTRICAL CONTRACTOR. THE

FURNISH THE STARTING EQUIPMENT TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION. CONTROL WIRING, INCLUDING 115V FROM POWER SOURCE, CONDUIT AND SWITCHES SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. CONTROL DEVICES, THERMOSTATS, INTERLOCKS, ETC. SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. WIRING DIAGRAMS AND INSTALLATION INSTRUCTIONS SHALL BE FURNISHED TO THE OWNER UPON PROJECT COMPLETION.

EARLY START-UP - THIS CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL EQUIPMENT IS CONNECTED WITH ELECTRICAL POWER AS EARLY AS POSSIBLE SO THAT BALANCING AND TESTING CAN BEGIN AT THE EARLIEST DATE AVAILABLE.

CLEANING AND PAINTING - THOROUGHLY CLEAN ALL EQUIPMENT AND REMOVE ALL TRASH, CARTONS, ETC., FROM THE WORK AREA. MAKE ANY NECESSARY CORRECTIONS OR REPAIR/REPLACE ANY DAMAGED MATERIALS OR EQUIPMENT. LEAVE THE ENTIRE LEASE SPACE IN A THOROUGHLY CLEAN AND ORDERLY MANNER. ANY FINISHED SURFACES THAT HAVE BEEN SCRATCHED SHALL BE TO BE TOUCHED UP OR REPAINTED TO MATCH THE ORIGINAL COLOR. IF ANY PART HAS BEEN BENT, BROKEN OR OTHERWISE DAMAGED, IT SHALL BE REPLACED PRIOR TO PROJECT CLOSEOUT. ALL METAL ITEMS INSIDE THE BUILDING SUBJECT TO RUSTING, AND ALL FERROUS METAL EXPOSED TO THE WEATHER SHALL BE GIVEN ONE COAT OF RUST PREVENTIVE PRIMER AS SOON AS INSTALLED.

14.2 EQUIPMENT INSTALLATION

ALL EQUIPMENT AND RELATED PIPING, DUCTWORK, CONTROL WIRING AND ACCESSORIES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND, IF INSTALLED WITHIN THE BUILDING ENVELOPE SHALL BE INSTALLED HIGH AS POSSIBLE TO ALLOW THE MAXIMUM AMOUNT OF HEADROOM. EQUIPMENT THAT REQUIRES ROUTINE MAINTENANCE SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION AND ARRANGED TO BE ACCESSIBLE. PROVIDE ACCESS PANEL(S) AS REQUIRED AND/OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL EQUIPMENT SHALL BE INSTALLED WITH THE REQUIRED CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER OR AS REQUIRED BY GOVERNING CODES, WHICHEVER IS GREATER.

14.3 DUCTWORK

LOW PRESSURE DUCTWORK AND FITTINGS SHALL BE MADE TIGHT FOR MINIMUM AIR LEAKAGE. DUCT TAPE SHALL NOT BE USED TO SEAL JOINTS, TO MAKE TRANSITIONS OR FOR ANY OTHER REASON ON THE OUTSIDE OF WRAPPED INSULATION.

INSTALL DUCTWORK AS HIGH AS POSSIBLE.

PROVIDE TURNING VANES AT ALL CHANGES IN DIRECTION.

PROVIDE VANED TEES AT BRANCH CONNECTIONS SERVING SERVING MORE THAN ONE DIFFUSER.

PROVIDE VOLUME CONTROL DAMPERS AND BALANCING DEVICES AS REQUIRED TO DISTRIBUTE THE AIR AND AS INDICATED ON THE DRAWINGS.

NOTE: DUCT DIMENSIONS INDICATED ON THE DRAWINGS ARE INSIDE CLEAR, OR "FREE AREA" DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR INTERNAL DUCT LINER (WHERE SPECIFIED) WHEN ORDERING PRE-FABRICATED DUCTWORK OR WHEN FABRICATING DUCTS IN THE FIELD.

14.4 FLEXIBLE DUCTWORK

DUCTWORK SHALL BE LIMITED IN LENGTH TO THAT NECESSARY TO MAKE CONNECTIONS BETWEEN TRUNK OR BRANCH DUCTS AND AIR DEVICES. FLEX DUCT LENGTH SHALL NOT EXCEED 5'-0".

ALL FLEX DUCT SHALL BE FULLY STRETCHED OUT TO REDUCE AIR RESISTANCE.

CONNECTIONS TO FITTINGS OR AIR DEVICES SHALL BE MADE WITH TWO (2) STAINLESS STEEL BANDS. THE INNER LINER SHALL BE CLAMPED TIGHT WITH THE FIRST BAND, THEN THE INSULATION AND VAPOR-PROOF JACKET PULLED TO BE TIGHT AGAINST THE DUCT FITTING OR AIR DEVICE AND SECURED WITH THE SECOND BAND. INSTALLATION SHALL BE AS RECOMMENDED BY THE DUCT MANUFACTURER AND SMACNA.

SUPPORT THE FLEXIBLE DUCT WITH ADEQUATE HANGERS TO RELIEVE STRAIN ON ANY FITTINGS. UNNECESSARY BENDS, SAGS, TWISTS, ETC., WILL NOT BE ALLOWED.

14.5 DUCT LINER & WRAP

ALL DUCTWORK DESIGNATED TO RECEIVE DUCT LINER SHALL BE COMPLETELY COVERED WITH LINER. TRAVERSE JOINTS SHALL BE NEATLY BUTTED AND THERE SHALL BE NO INTERRUPTIONS OR GAPS.

DUCT LINER SHALL BE CUT AS REQUIRED TO ENSURE OVERLAPPED AND COMPRESSED LONGITUDINAL CORNER JOINTS.

FASTENERS SHALL START WITHIN 3" OF THE UPSTREAM TRAVERSE EDGES OF THE LINER AND 3" FROM THE LONGITUDINAL JOINTS AND SHALL BE SPACED AT A MAXIMUM OF 12" o.c. AROUND THE PERIPHERY OF THE DUCT. ELSEWHERE THEY SHALL BE SPACED AT A MAXIMUM OF 18" o.c., EXCEPT THAT THEY SHALL BE PLACED NOT MORE THAN 6" FROM A LONGITUDINAL JOINT OF THE LINER OR 12" FROM A CORNER BREAK.

DUCT WRAP SHALL BE INSTALLED IN A NEAT AND COMPETENT MANNER WITH ALL EDGES NEATLY COVERED WITH AN APPROVED METALLIC DUCT TAPE TO VAPOR-PROOF THE ENTIRE DUCT. LAPS AND JOINTS SHALL BE SECURED WITH INSULATION STAPLES AND THEN COVERED WITH APPROVED TAPE.

DUCT WRAP SHALL BE INSTALLED IN A NEAT AND COMPETENT MANNER WITH ALL EDGES NEATLY COVERED WITH AN APPROVED METALLIC DUCT TAPE TO VAPOR-PROOF THE ENTIRE DUCT. LAPS AND JOINTS SHALL BE SECURED WITH INSULATION STAPLES AND THEN COVERED WITH APPROVED TAPE.

14.6 AIR DEVICES

INSTALL ALL GRILLES AND DIFFUSERS TO BE FLUSH WITH THE PENETRATED SURFACE AND LEVEL OR STRAIGHT WITH THE SURROUNDING FEATURES. ALL CEILING MOUNTED AIR DEVICES SHALL BE LOCATED IN THE CEILING TILE INDICATED ON THE DRAWINGS. SUPPORT CEILING MOUNTED GRILLES AND DIFFUSERS AT THE PROPER HEIGHT TO HOLD IT SNUG AGAINST THE CEILING.

14.7 DUCT SEALANT

PROVIDE DUCT SEALANT OF 2" WIDE, WOVEN-FIBER TAPE IMPREGNATED WITH GYPSUM MINERAL COMPOUND AND MODIFIED ACRYLIC/SILICONE ACTIVATOR TO REACT EXOTHERMICALLY WITH TAPE TO FORM HARD, DURABLE, AIRTIGHT SEAL.

SEAL DUCT TRAVERSE JOINTS FOR PRESSURE CLASS LESS THAN 2" AND PERFORM LEAKAGE TEST PRIOR TO INSTALLATION OF INSULATION.

INSTALL ROOF MOUNTED EQUIPMENT SUPPORT RAILS OR ROOF CURBS AS REQUIRED FOR THE JOB CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER FOR THE INSTALLATION OF ROOF MOUNTED EQUIPMENT. THE EXACT LOCATION OF ALL ROOF MOUNTED EQUIPMENT IS SUBJECT TO SITE CONDITIONS AND THE APPROVAL OF THE GENERAL CONTRACTOR. COORDINATE THE ENTIRE INSTALLATION WITH THE GENERAL CONTRACTOR AND OTHER TRADES. ELECTRICAL CONTRACTOR FOR INSTALLATION, CONTROL, WIRING, INCLUDING CONTRACTOR SHALL PROVIDE A TEMPORARY PLYWOOD WORK PLATFORM THAT COMPLETELY SURROUNDS THE AREA WHERE NEW ROOF MOUNTED EQUIPMENT AND/OR DUCTS ARE TO BE INSTALLED. ENTIRE WORK AREA SHALL REMAIN ON THE ROOF DURING THE ENTIRE PERIOD OF INSTALLATION AND SHALL BE REMOVED FROM THE ROOF AND THE SITE BY THIS CONTRACTOR UPON COMPLETION OF THE INSTALLATION.

ALL ROOF PENETRATIONS FOR POWER AND CONTROL WIRING CONDUTITS AND GAS, CONDENSATE, OR REFRIGERANT PIPING SHALL BE MADE WITH WATERPROOF PIPE SLEEVES.

THIS CONTRACTOR SHALL ENGAGE THE SERVICES OF AN AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR TO ADJUST AND COMPLETELY BALANCE THE INSTALLED SYSTEM(S) TO THE DESIGN AIR QUANTITIES. CONTRACTOR SHALL PROVIDE THE OWNER, THE ARCHITECT AND AIA A COPY OF THE CERTIFIED AIR BALANCE REPORT SHOWING DESIGN AND MEASURED AIR QUANTITIES, STATIC PRESSURES, FAN MOTOR RPM AND MOTOR CURRENT. DEVIATION BETWEEN DESIGN AND MEASURED QUANTITIES SHALL NOT BE GREATER THAN 10%.

ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTORS EXPENSE.

FOR THE SAME PERIOD, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE PREMISES BY DEFECTS IN HIS WORKMANSHIP OR WORK AND/OR EQUIPMENT INSTALLED BY OTHERS UNDER HIS CONTRACT.

TESTING AND ADJUSTING

CONTRACTOR SHALL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATISFACTION OF TENANT. SHALL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND SHALL RECORD VOLUME READINGS IN ACCORDANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. OPERATION AND MAINTENANCE DOCUMENTATION MUST BE PROVIDED TO THE OWNER THAT INCLUDES AT LEAST THE FOLLOWING INFORMATION:

A. EQUIPMENT CAPACITY (INPUT AND OUTPUT) AND REQUIRED MAINTENANCE ACTIONS.

B. EQUIPMENT OPERATION AND MAINTENANCE MANUALS WITHIN 90 DAYS.

C. HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS; DESIRED OR FIELD-DETERMINED SET POINTS MUST BE PERMANENTLY RECORDED ON CONTROL.

D. COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING PLUMBING CODE.

FOR COMPANY BAKERY CAFES, THE GC IS RESPONSIBLE FOR SCHEDULING AND PROVIDING A TEST AND BALANCE REPORT TO PANERA REPRESENTATIVE PRIOR TO TURNOVER. G.C. SHALL USE AN AABC OR NEBB INDEPENDANT THIRD PARTY AIR BALANCE COMPANY.

HVAC LEGEND	
SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	TOILET ROOM EXHAUST GRILL
	SPRINKLER HEAD
	DUCT MOUNTED SMOKE DETECTOR
	DIRECTION OF AIR FLOW
	VOLUME DAMPER
	THERMOSTAT (CONTOLLER)
	TEMPERATURE SENSOR
F.O.I.C	FURNISH BY OWNER INSTALL BY CONTRACTOR
F.C.I.C	FURNISH BY CONTRACTOR INSTALL BY CONTRACTOR

VENTILATION REQUIREMENT CALCULATION										PER IMC 2015 TABLE 403.3*	
ROOM NAME	Area (SF)	People/1000 SF	People	CFM/Person	CFM/SF	Ez	People X CFM/Person	SF X CFM/SF	REQUIRED O.A. CFM	PROVIDED O.A. CFM	
RTU-1 DINING	996	70	70	7.5	0.18	0.8	522.9	179.3	877.7	900.00	
QUEUING	100	15	2	7.5	0.08	0.8	11.3	6.0	21.6	25.00	
BAKERY SERVICE	299	15	4	7.5	0.12	0.8	33.9	35.2	85.2	90.00	
COLD BEV	51	15	1	7.5	0.08	0.8	5.7	3.1	11.0	12.00	
HOT BEV	51	15	1	7.5	0.08	0.8	5.7	3.1	11.0	12.00	
COBB. W/ W.TLT	244	15	4	7.5	0.12	0.8	27.5	29.3	70.9	75.00	
RTU-2 CONSIDERATION	264	15	4	7.5	0.12	0.8	29.7	31.7	76.7	80.00	
KITCHEN	580	15	9	7.5	0.12	0.8	66.4	70.8	171.5	9.00	
BAKERY REAR	73	15	1	7.5	0.12	0.8	8.2	8.9	21.2	10.00	
OFFICE	113	15	0	7.5	0.08	0.8	1.3	1.7	6.3	11.00	
UTILITY		15	2	7.5	0.12	0.8	12.7	13.8	32.8	13.00	
MINIMUM FRESH AIR CFM REQUIRED PER CODE										1386	
TOTAL OF ALL FRESH AIR INTRODUCED INTO SPACE											

AIR BALANCE SCHEDULE				
TAG	SUPPLY AIR (CFM)	OA AIR (CFM)	EXHAUST AIR (CFM)	RESULTING PRESSURE
EF-1			900	
EF-2			400	
EF-3			225	
RTU-1	2000	500		
RTU-2	2000	500		
RTU-3	4000	1000		
TOTALS:	8000	2000	1525	+475

EXHAUST FAN SCHEDULE (EXISTING INSTALLED BY SHELL CONTRACTOR)								
PLAN MARK	MANUFACTURER	MODEL	TYPE	SP	CFM	ELECTRICAL	OPTIONS	REMARKS
EF-1	CAPTIVEAIRE	DU50 FLA	UPBLAST	0.5	900	120/1/60 1/2 HP	ROOF CURB	F.O.I.C.
EF-2	CAPTIVEAIRE	DU50 HFA	UPBLAST	0.5	400	120/1/60 1/3 HP	ROOF CURB	F.O.I.C.
EF-3	GREENHECK	G-070-VG	ROOF MTD	0.5	225	120/1/60 1/6 HP	ROOF CURB	F.C.I.C.

PACKAGED ROOF TOP UNIT SCHEDULE - DX / GAS (EXISTING INSTALLED BY SHELL CONTRACTOR)

TAG	LOCATION	SERVICE	NOM TONS	CFM	MIN OA	EVAP FAN			COOLING (DX) - 95° F			HEATING - GAS				ELECTRICAL DATA					APPROX. WEIGHT (LBS)	DESIGN EQUIPMENT	REMARKS
						E.S.P. (in. wg)	HP	TMBH	SMBH	EER	INPUT MBH	OUTPUT MBH	EAT	LAT	VOLT	PH	MCA	MOCF	STARTER				
RTU-1	ROOF	CAFE	5	2000	500	1.00	1	60.1	42.2	12	150.0	120.0	55.4 °F	88.6 °F	208	3	35.0	50	PKGD.	1172	LENNOX LGH060S4B	1, 2, 3, 4, 5	
RTU-2	ROOF	DINING	5	2000	500	1.00	1	60.1	42.2	12	150.0	120.0	55.4 °F	88.6 °F	208	3	35.0	50	PKGD.	1172	LENNOX LGH060S4B	1, 2, 3, 4, 5	
RTU-3	ROOF	KITCHEN	10	4000	1000	1.00	3.0	99.0	72.0	11.2	240.0	180.0	55.4 °F	88.6 °F	208	3	46.0	50	PKGD.	1500	LENNOX LGH120S4B	1, 2, 3, 4, 5	

- REMARKS:
- UNIT SHALL BE CLASSIFIED IN ACCORDANCE WITH ANSI-Z21.47, ARI 210 & 270.
  - UNIT SHALL HAVE MANUFACTURER'S 14" HIGH ROOF CURB, RETURN AIR SMOKE DETECTOR, UNIT MOUNTED DISCONNECT, THRU BASE ELECTRICAL SERVICE AND HINGED ACCESS DOORS.
  - MANUFACTURER SHALL FURNISH UNIT WITH DIFFERENTIAL ENTHALPY CONTROL ECONOMIZER WITH BAROMETRIC RELIEF DAMPER, 0 TO 100% FULLY MODULATING MOTORIZED OUTSIDE AIR DAMPERS, OUTSIDE AIR HOOD & ADJUSTABLE POSITION POTENTIOMETER DAMPER ACTUATOR SHALL BE SPRING RETURN TYPE TO FULLY CLOSE OUTSIDE AIR DAMPER WHEN UNIT IS SHUT DOWN.
  - COOLING CAPACITY IS BASED UPON 95°F AMBIENT AND 80/67 COIL ENTERING CONDITIONS. PROVIDE HIGH EFFICIENCY UNIT IF STANDARD EFFICIENCY UNIT DOES NOT MEET SCHEDULED VALUES.
  - LANDLORD CONTRACTOR SHALL PURCHASE FROM NATIONAL ACCOUNT. SEE CONTACTS ON THIS SHEET.

AIR DEVICE SCHEDULE				
PLAN MARK	MANUFACTURER MODEL NUMBER	MODULE	AIR FLOW DIRECTION	FRAME
S1	MILL HARDWARE 3T16(X)	24"x24"	4-WAY	LAY-IN
S2	1 PRICE SDS 150	48"x6"	2-WAY	LAY-IN
S3	2 PRICE SDS 150	36"x6"	2-WAY	LAY-IN
S4	MILL HARDWARE 3T46(D)2WC	12"x12"	2-WAY	LAY-IN
S5	MILL HARDWARE 3T18(Y)	24"x24"	PERFORATED	LAY-IN
S6	MILL HARDWARE 3T46(X)	12"x12"	4-WAY	LAY-IN DRYWALL
R1	* MILL HARDWARE 3T16(Z)	48"x24"	-	LAY-IN DRYWALL
R1a	* MILL HARDWARE 3T17(A)	24"x24"	-	LAY-IN DRYWALL
R2	** MILL HARDWARE 3T46(B)	12"x12"	-	LAY-IN DRYWALL
E1	** MILL HARDWARE 3T46(C)	12"x12"	-	DR





# M302



KEYED NOTES (OVEN)

① WATER - 1/2" NPT/30 PSI @ 3.0 GPM FLOW RATE REQUIRED. HOT OR COLD (HOT WATER NOT TO EXCEED 120 DEGREES F) 95° A.F.F., 30" FROM THE LEFT SIDE OF OVEN, 9.5" FROM REAR OF THE OVEN. LINE DROPPED FROM CEILING. OVEN COMES PREINSTALLED W/ WATER PRESSURE REGULATOR, WATER PRESSURE GAUGE, WATER SOLENOID AND SHUT-OFF VALVE. G.C. TO INSTALL IN-LINE FILTER, SHUTOFF, LINE STRAINER, DISCONNECT AND WATER PRESSURE REGULATOR SET FOR 30 PSI IN EASILY ACCESSIBLE AREA.

WATER SUPPLY MUST HAVE THE PROPER HARDNESS, pH & CHLORIDE CONCENTRATION. CONSULT YOU LOCAL WATER COMPANY AND/OR WATER CONDITIONER DEALER BEFORE INSTALLATION.

- RECOMMENDED WATER HARDNESS RANGE: 2-4 GRAIN PRE GALLON.  
- RECOMMENDED pH RANGE: 7.0 TO 8.0  
- ACCEPTABLE RANGE FOR CONCENTRATION: 0-30 ppm.

②③ DRAIN 3/4" NPT. REAR DRAIN (RECOMMENDED) 5.5" A.F.F. 21" FROM THE REAR LEFT SIDE OF THE OVEN. FRONT DRAIN HAS KNOCKOUT LOCATED 2.8" A.F.F. 1" FROM FRONT RIGHT HAND CORNER OF THE OVEN. AFTER REMOVAL OF THE KNOCKOUT THE 3/8" NPTF CONNECTION IS LOCATED 1" INSIDE THE CAVITY. KIT SUPPLIED TO EXTEND DRAIN TO EITHER SIDE OF OVEN.

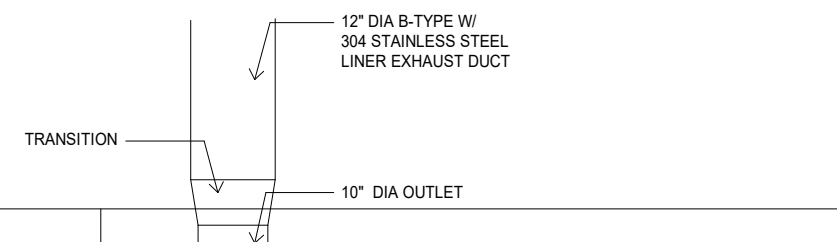
④ GAS - 1-1/4" NPT. FIRING RATE - 300,000 BTU. STATIC LINE PRESSURE REQUIRED 5"-14" W.C. NG OR 10"-14" W.C. LP. LINE DROPPED FROM CEILING. 89" A.F.F. 5.5" FROM THE FRONT OF THE OVEN. OVEN COMES W/ PREINSTALL DRIP LEG, PRESSURE REGULATOR AND SHUTOFF VALVE. PRESSURE REGULATOR IS RATED FOR 14 PSI MAXIMUM PRESSURE.

SIZE	TYPE OF GAS	CAP-MBH PIPE LENGTH			DIRECTION OF FLOW	MANUAL SHUT OFF VALVE	1/8" WPT PLUGGED TAPPING PRESSURE GAUGE PORT	TEE UNION	CONTROL MANIFOLD PIPE CAP
		15	30	50					
1"	NATURAL	X	X						
	PROPANE	X	X						
1 1/4"	NATURAL	X	X						
	PROPANE	X	X						
1 1/2"	NATURAL	X	X						

⑤ ELECTRICAL 2 SUPPLIES REQUIRED  
9" FROM FROM UPPER LEFT FRONT CORNER OF OVEN  
-120V/60HZ/1 15 A (20 A MAX.)- DEDICATED CIRCUIT.

-208-240V 60HZ/1 8.6 AMPS  
-208-240V 60HZ/3 4.2-4.4 AMPS  
-440-480V 60HZ/3 2.2-2.4 AMPS

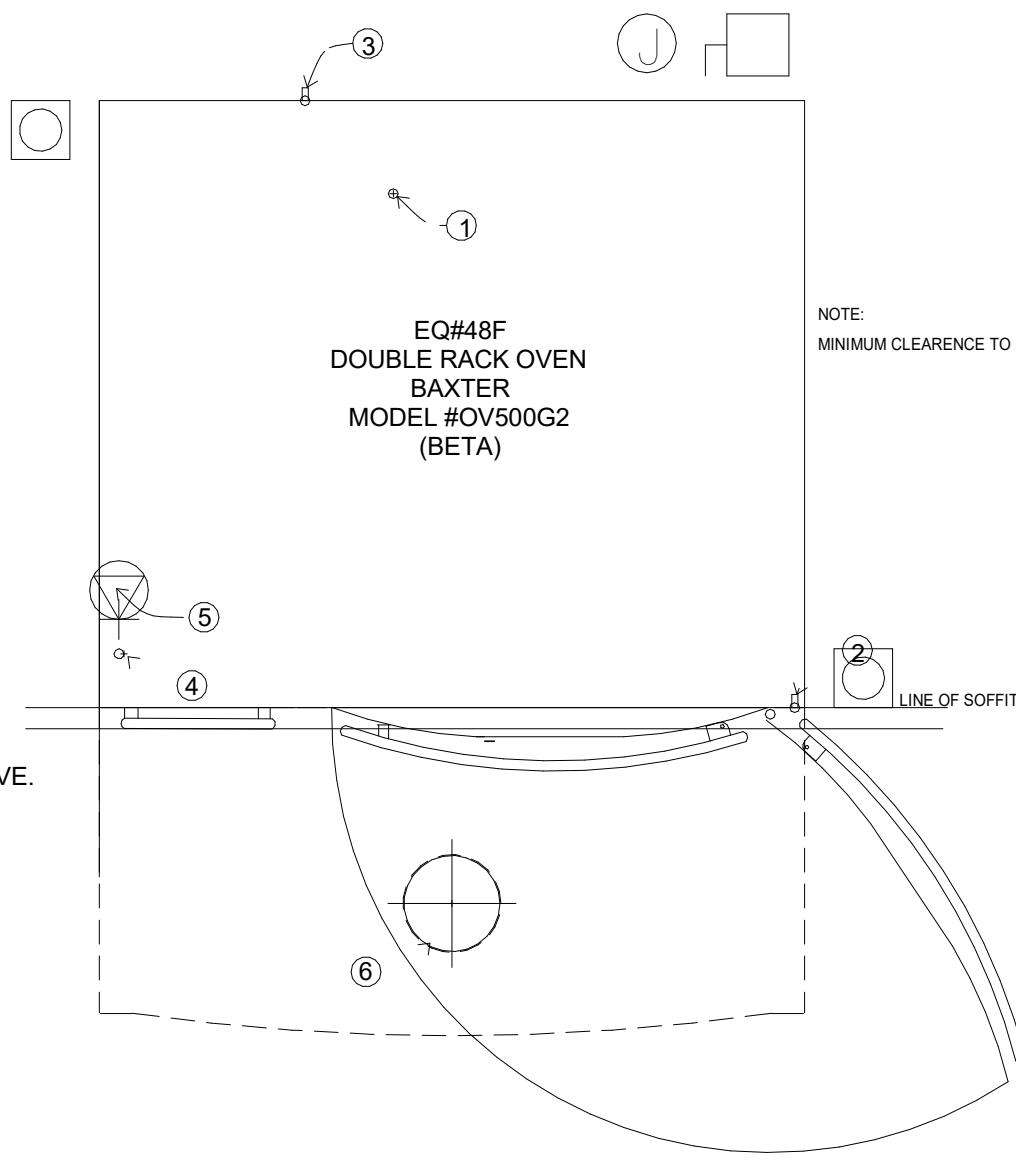
⑥ B-TYPE VENT WITH 304 SS LINER - 10" DIAMETER TYPE B METALBESTOS UP THRU ROOF. USE 304 STAINLESS STEEL LINER IN TYPE B FLUE FOR EXHAUST



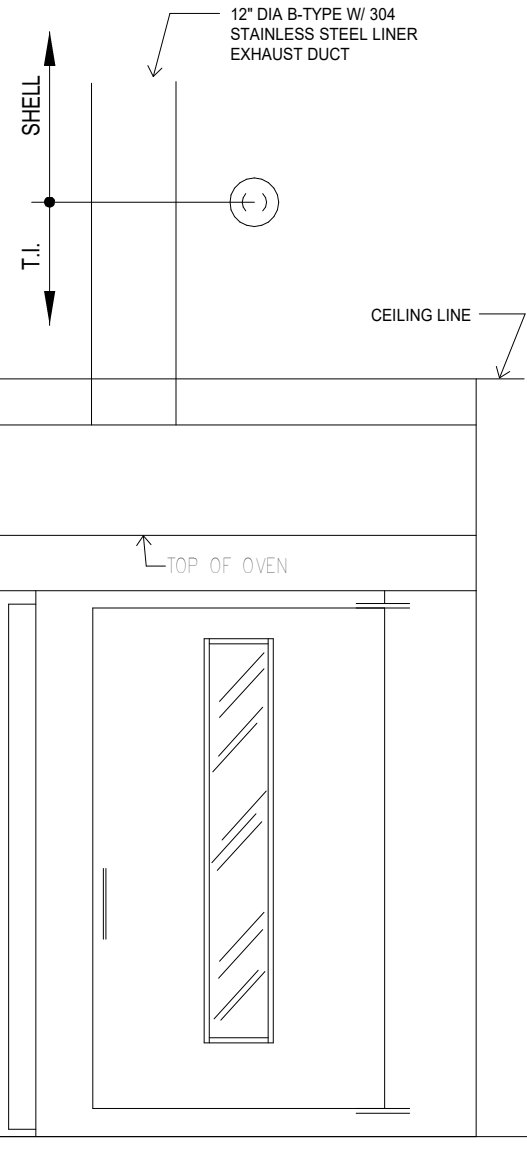
SIDE

FRONT

BAXTER OVEN

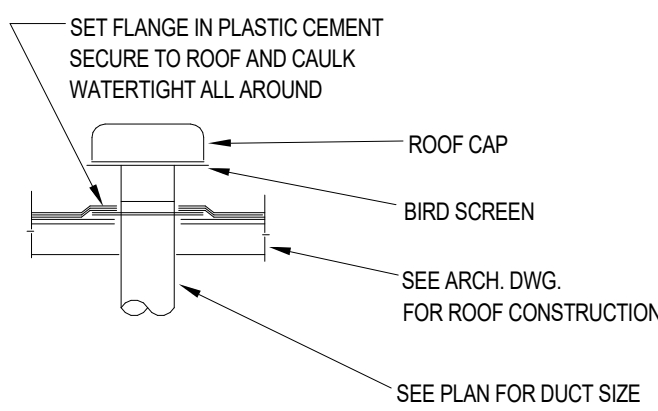


OVEN PLAN

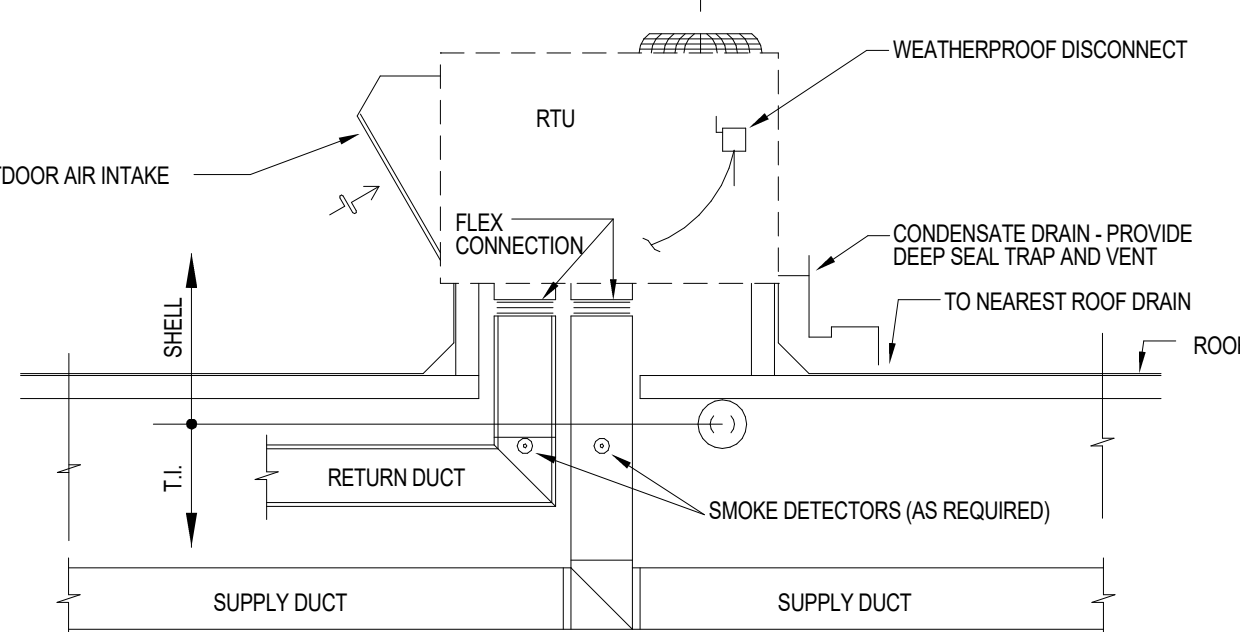


4 DETAIL @ OVEN  
SCALE: NTS

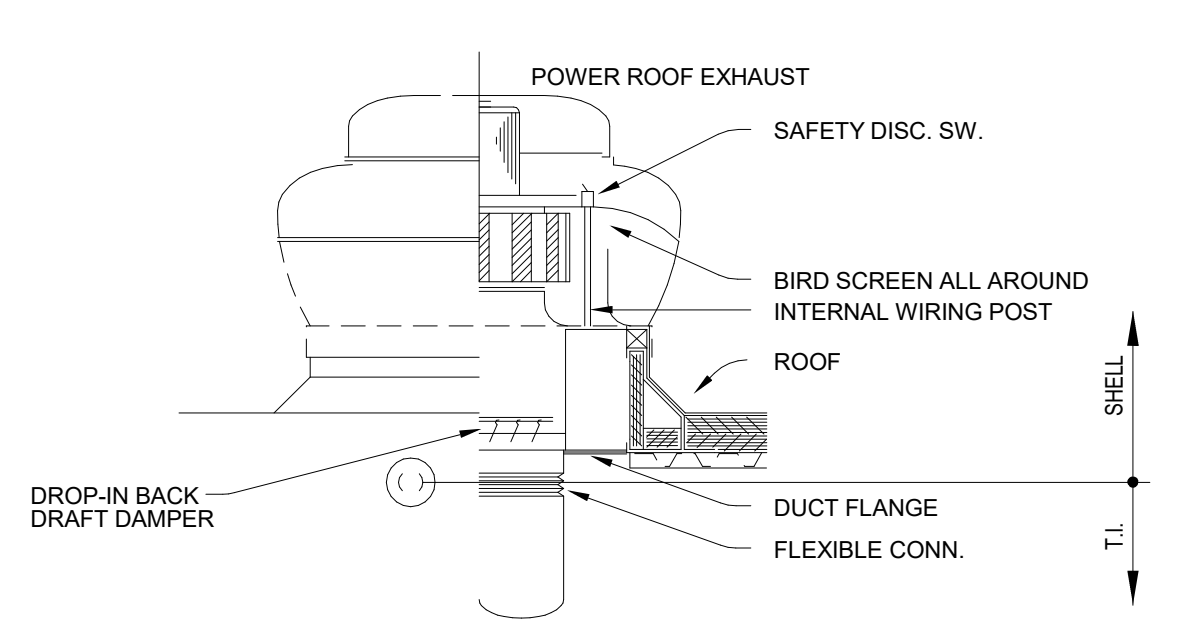
EXHAUST FAN PURCHASED FROM "CAPTIVEAIRE" BY OWNER AND INSTALLED BY SHELL CONTRACTOR



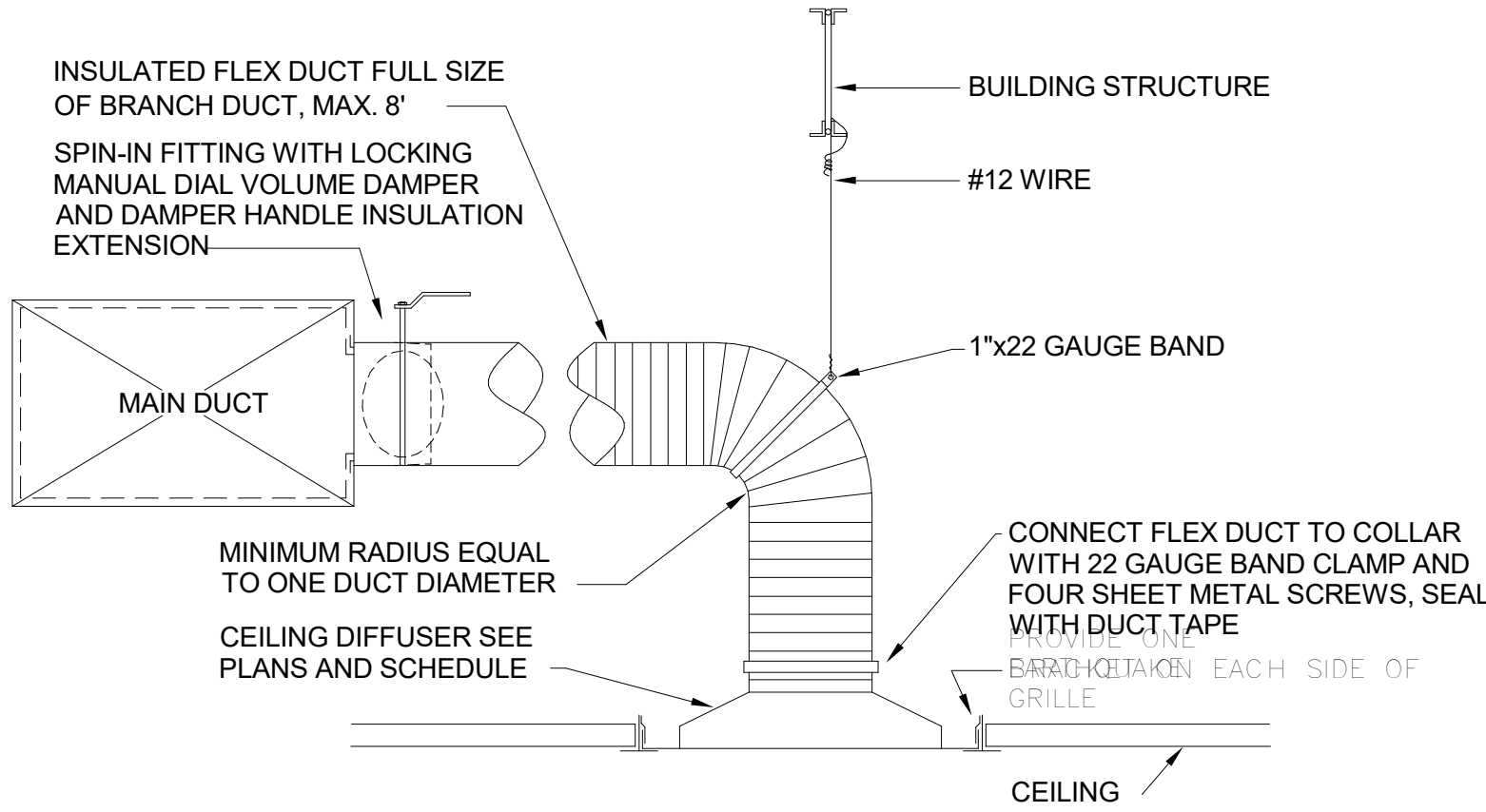
3 ROOF CAP DETAIL  
SCALE: NTS



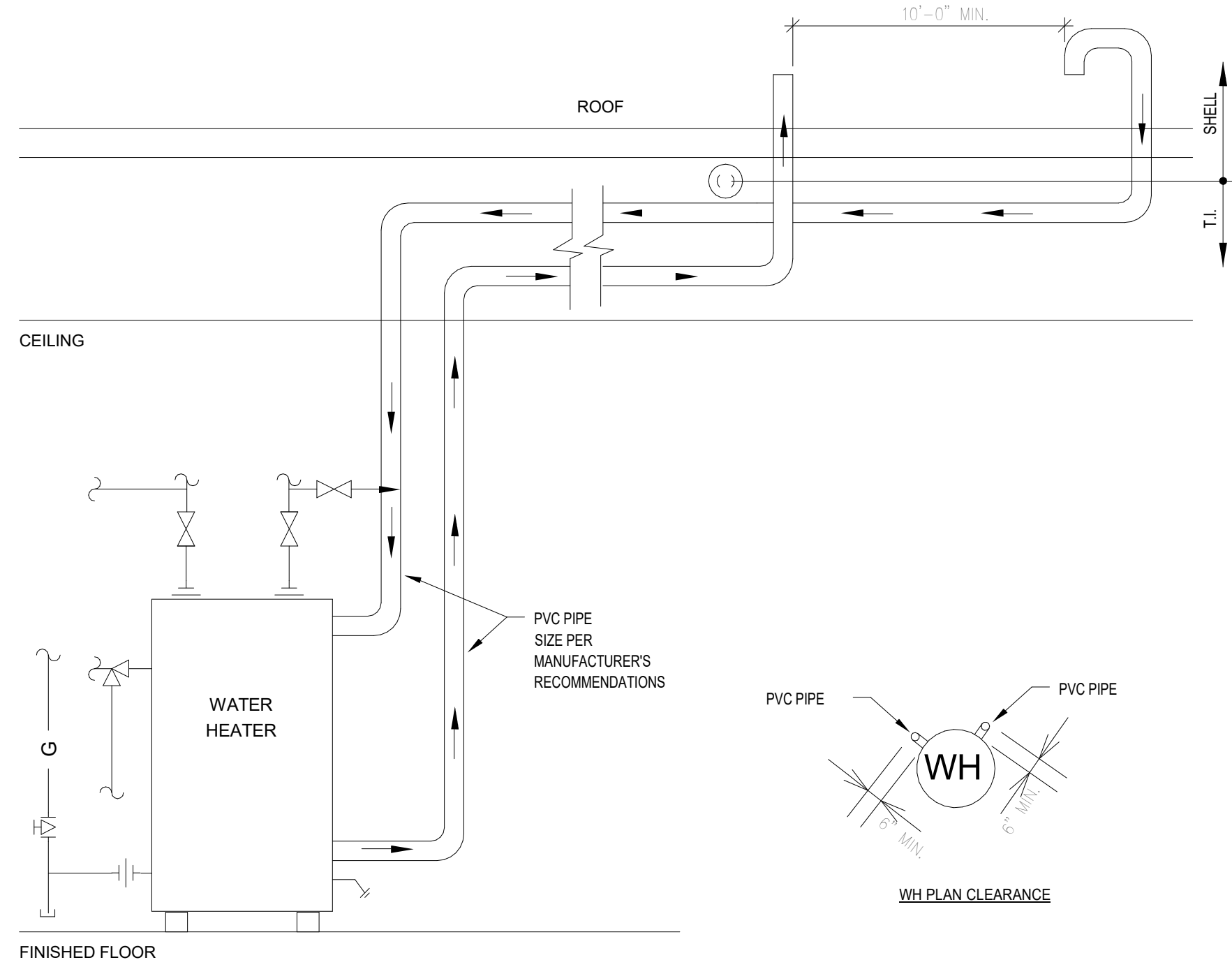
1 ROOFTOP UNIT SECTION  
SCALE: NTS



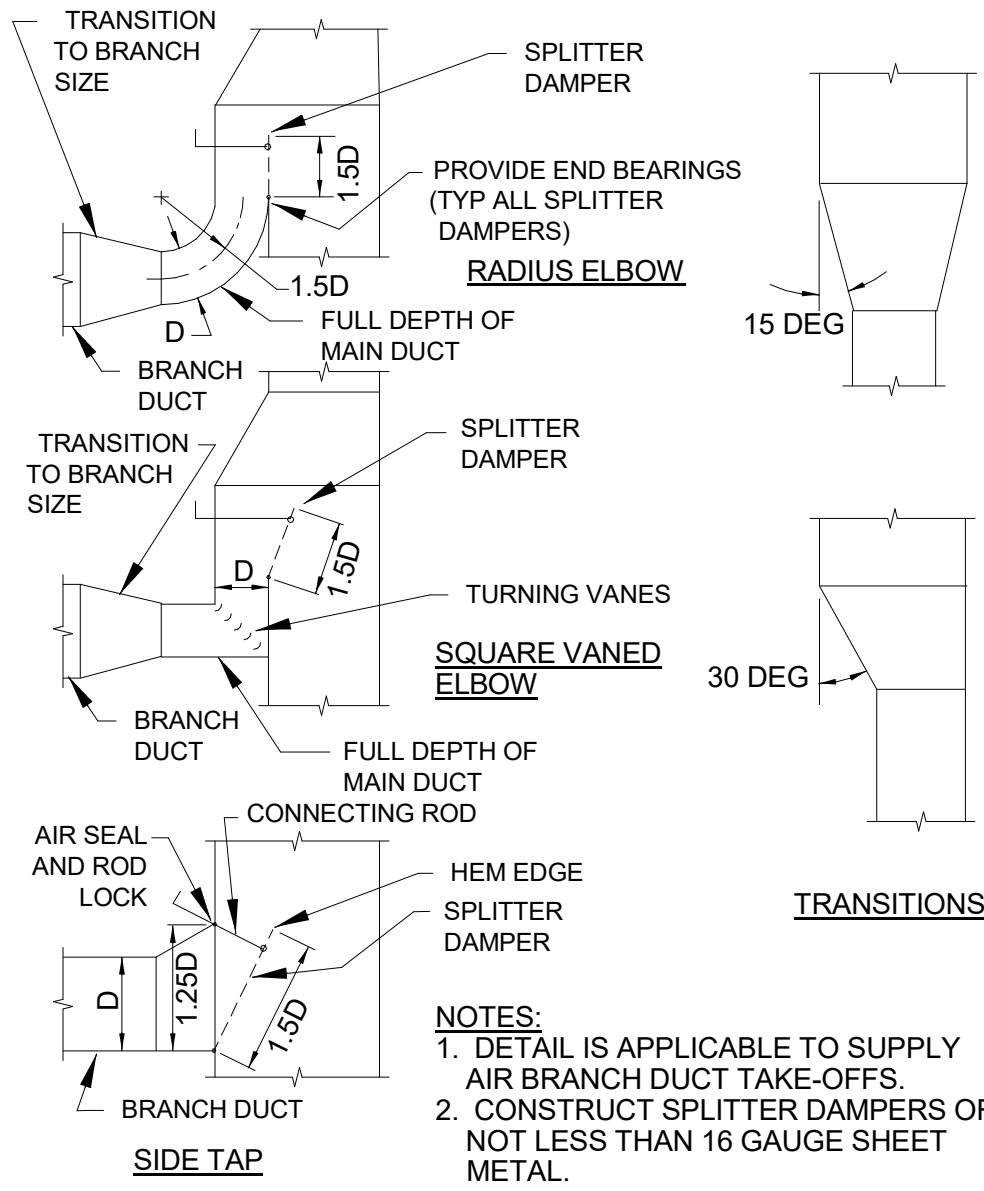
2 ROOF MOUNTED EXHAUST FAN DETAIL  
SCALE: NTS



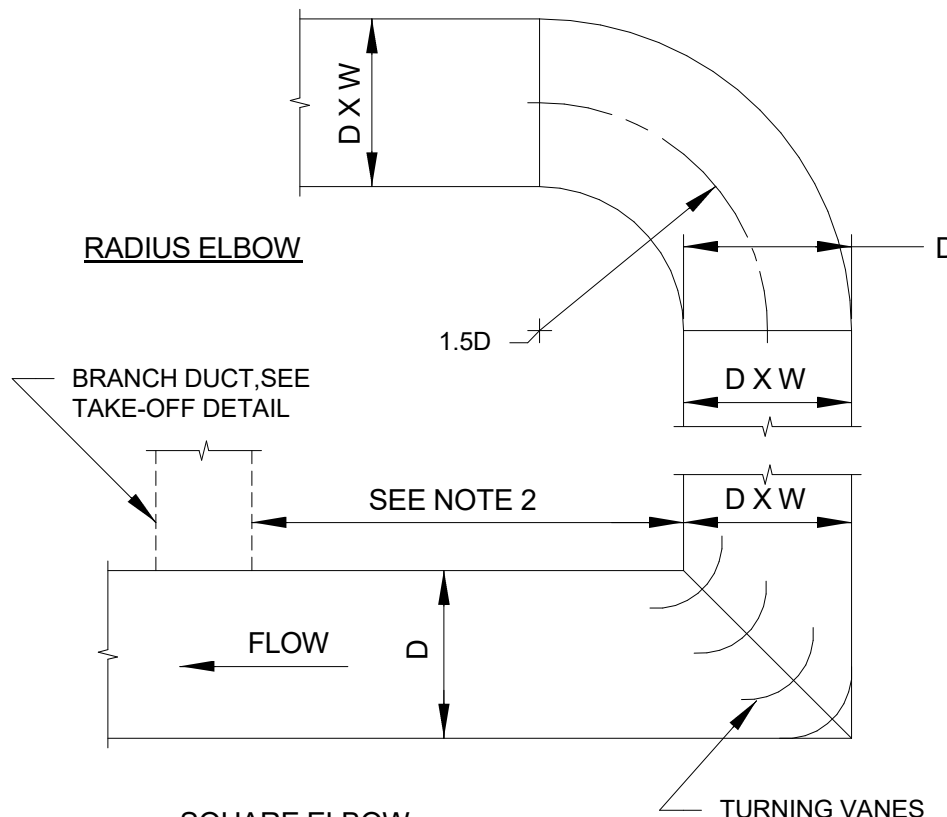
5 BRANCH DUCT - AIR GRILLE DETAIL  
SCALE: NTS



6 DIRECT VENT WATER HEATER VENTILATION DETAIL  
SCALE: NTS

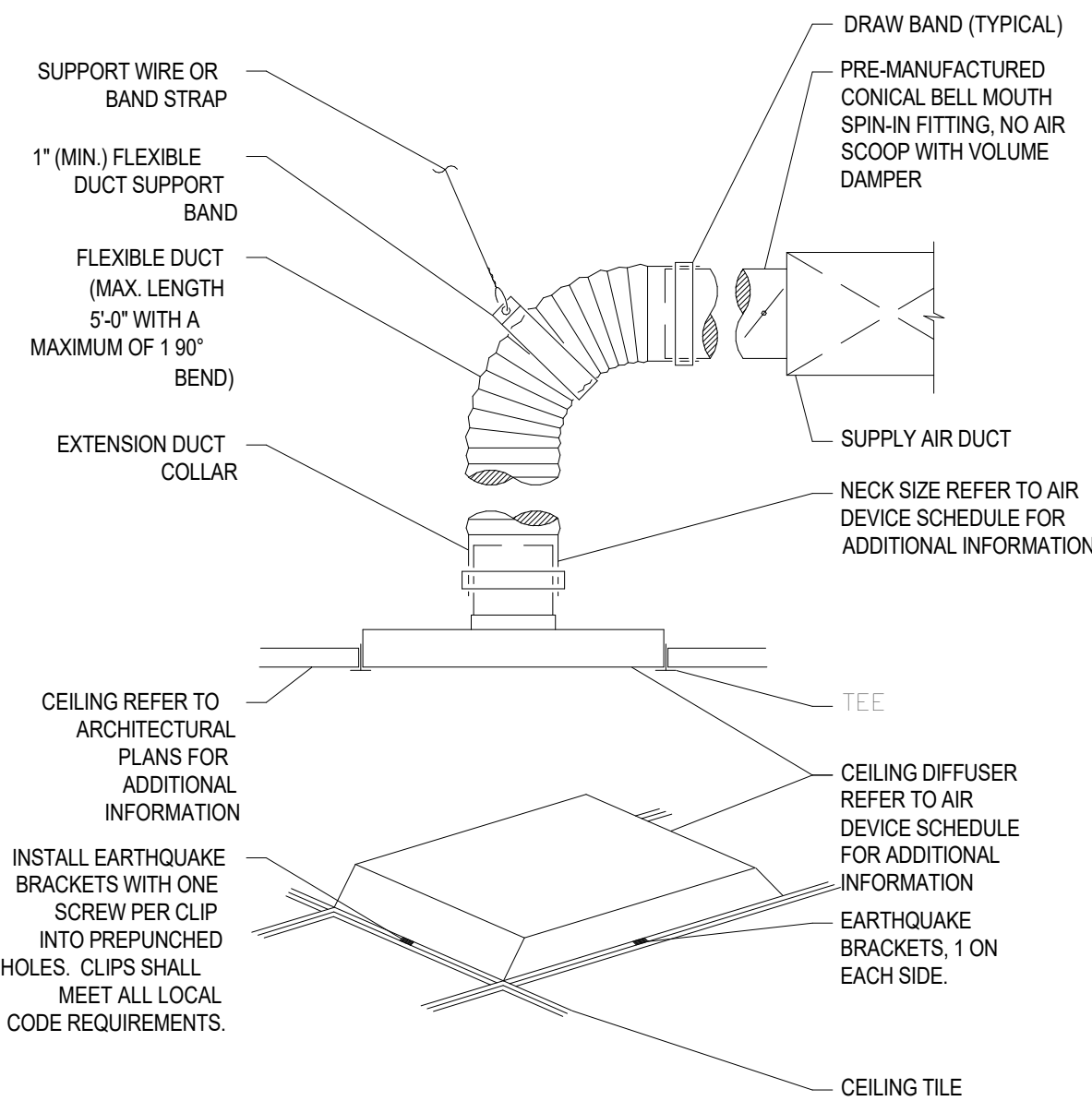


7 DUCTWORK TRANSITION & TAKEOFF DETAILS  
SCALE: NTS



NOTES:  
1. UNLESS SPECIFICALLY NOTED OTHERWISE, DETAIL APPLIES TO ALL SUPPLY, ALL EXHAUST, AND ALL RETURN AIR ELBOWS.  
2. BRANCH DUCT TAKE-OFFS MUST BE A MINIMUM OF 4D DOWNSTREAM OF EITHER TYPE OF ELBOW, AND NOT LESS THAN 3D UPSTREAM.

8 DUCT ELBOW DETAIL  
SCALE: NTS



9 SEISMIC BRACING FOR CEILING MOUNTED DIFFUSERS  
SCALE: NTS

Bakery-Cafe:

0620

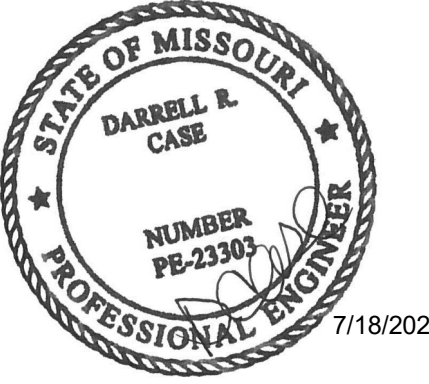
SYSTEM: NEXT GEN

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CERTIFICATE OF AUTHORITY NO. 001498

Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION  
**Bakery Cafe #2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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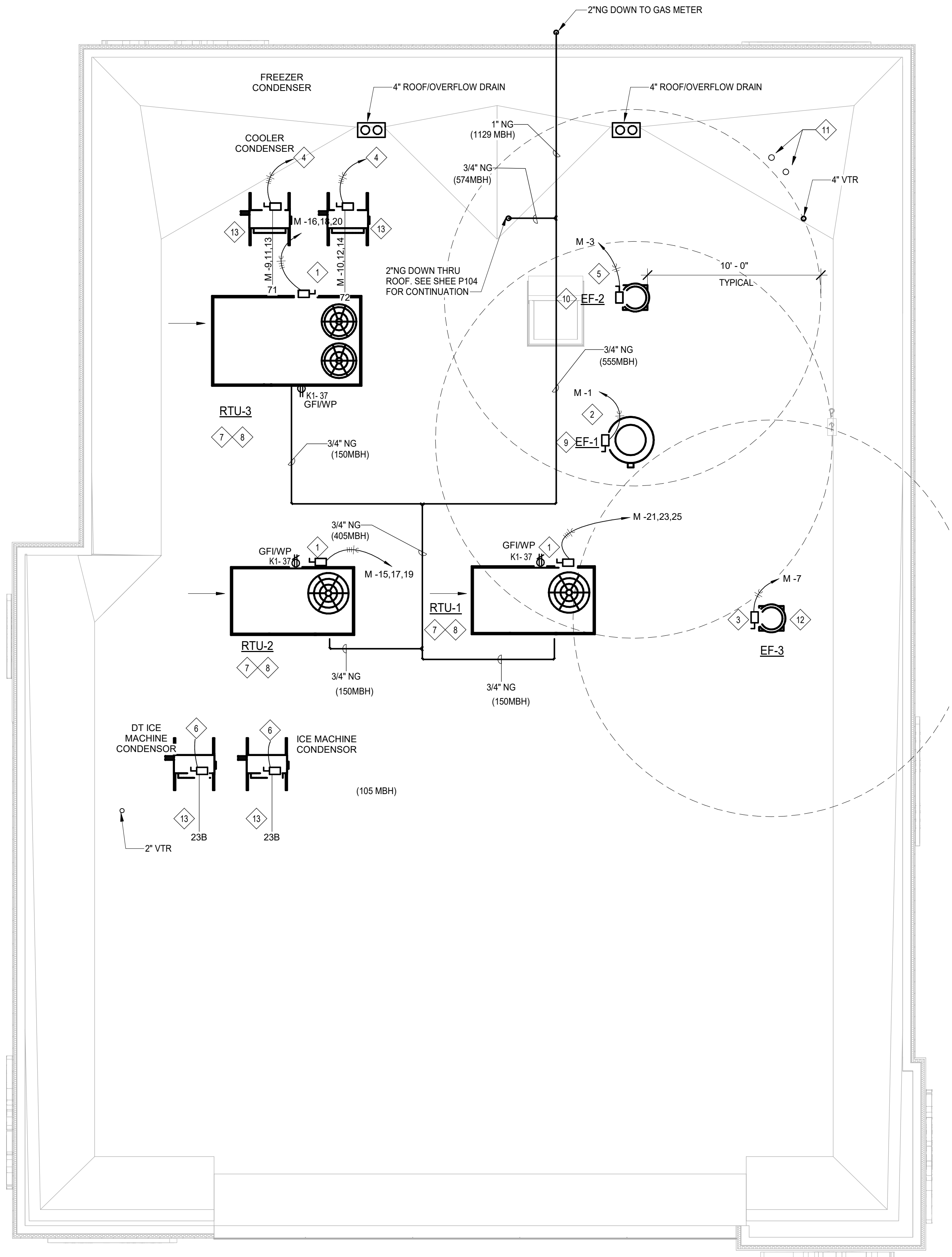
MECHANICAL  
DETAILS

Project Number: 2406  
Drawn By: JAF  
Issue Date: 07/05/2022  
DPM: DM: CPM: DC: CH JP

M401

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PR020202 V1



1 | MECHANICAL ROOF PLAN  
1/4" = 1'-0"

## KEYED NOTES

- 1 PROVIDE ROUGH-IN AND FINAL CONNECTION TO ROOFTOP UNIT. ROOFTOP UNIT-MOUNTED DISCONNECTING MEANS SUPPLIED BY EQUIPMENT MANUFACTURER. ELECTRICAL CONTRACTOR TO PROVIDE AND MAKE FINAL CONNECTION TO UNIT-MOUNTED WEATHERPROOF GFI SERVICE RECEPTACLE. COORDINATE WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR IN FIELD.
- 2 PROVIDE ROUGH-IN AND FINAL CONNECTION TO RACK OVEN HOOD EXHAUST FAN, DRAFT INDUCER MOTOR, AND PRESSURE SWITCH. DISCONNECTING MEANS SUPPLIED BY EQUIPMENT MANUFACTURER. FAN SHALL BE INTERLOCKED WITH OVEN TO RUN WHEN OVEN IS ON. SEE WIRING DETAILS ON MECHANICAL SHEETS. COORDINATE WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER.
- 3 PROVIDE ROUGH-IN AND FINAL CONNECTION TO RESTROOM EXHAUST FAN. DISCONNECTING MEANS SUPPLIED BY EQUIPMENT MANUFACTURER. VERIFY AND COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL DRAWINGS.
- 4 PROVIDE ROUGH-IN AND FINAL CONNECTION TO COOLER/FREEZER COMPRESSOR. EXTEND POWER FROM COMPRESSOR TO EVAPORATOR. COORDINATE WITH G.C. AND COOLER/FREEZER MANUFACTURER.
- 5 PROVIDE ROUGH-IN AND FINAL CONNECTION TO HOOD FAN. DISCONNECTING MEANS SUPPLIED BY EQUIPMENT MANUFACTURER. FAN TO BE CONTROLLED VIA "ECOLAB" SYSTEM. COORDINATE LOCATION OF SYSTEM WITH G.C. IN FIELD. COORDINATE HOOD CONNECTION WITH MECHANICAL CONTRACTOR.
- 6 ELECTRICAL CONTRACTOR TO MAKE ELECTRICAL CONNECTION BETWEEN ICE MAKER AND REMOTE CONDENSER. COORDINATE WITH G.C. AND EQUIPMENT MANUFACTURER.
- 7 CONTRACTOR PROVIDED ROOF TOP UNIT AS SHOWN IN SCHEDULE ON SHEET M201. UNIT SHALL BE LOCATED SUCH THAT SUPPLY AND RETURN DUCTWORK DROP BETWEEN JOISTS. SEE SHEET M101 FOR CONTINUATION. RUN CONDENSATE LINE TO NEAREST DRAIN. REFER TO PLUMBING DRAWINGS.
- 8 CONTRACTOR TO PROVIDE AND INSTALL U.L. LISTED IONIZATION TYPE SMOKE DETECTOR INTERLOCKED W/ RTU CONTROLS TO SHUT RTU DOWN UPON ACTIVATION OF DETECTOR. LOCATE IN RETURN AIR DUCTWORK. DETECTORS SHALL BE ACCESSORIZED WITH VISIBLE AND AUDIBLE SIGNALS IN AN APPROVED LOCATION.
- 9 RACK OVEN EXHAUST FAN-1 F.O.I.C. INSTALLED BY SHELL CONTRACTOR. (SEE SCHEDULE AND DETAIL ON SHEET M01, M301, M302, M401) RUN EXHAUST DUCT DOWN TO RACK OVEN EXHAUST HOOD SEE SHEET M101 FOR CONTINUATION. LOCATE FAN OUTLET 10' MIN. FROM ANY AIR INTAKE. (DUCT SHALL BE "B-VENT" WITH ALUMINUM OR STAINLESS STEEL LINER).
- 10 DISHWASHER EXHAUST FAN-2 F.O.I.C. INSTALLED BY SHELL CONTRACTOR. (SEE SCHEDULE AND DETAIL ON SHEET M01, M301, M302, M401) RUN EXHAUST DUCT DOWN TO DISHWASHER EXHAUST HOOD. SEE SHEET M101 FOR CONTINUATION. LOCATE FAN OUTLET 10' MIN. FROM ANY AIR INTAKE. (DUCT SHALL BE ALUMINUM OR STAINLESS STEEL).
- 11 PVC LINES (FLUE OUTLET AND COMBUSTION INLET) FROM WH BELOW (SEE SHEET M101 FOR CONTINUATION) UP THRU ROOF BY SHELL CONTRACTOR. TERMINATE PER MANUFACTURER'S RECOMMENDATION W/ 4 FEET MIN. CLEARANCE BETWEEN FLUE OUTLET AND ANY AIR INTAKE. SEE DETAIL ON SHEET M401.
- 12 RESTROOM EXHAUST FAN-3 BY CONTRACTOR (SEE SCHEDULE ON SHEET M201 AND DETAIL ON SHEET M301). LOCATE 10 FEET MIN. FROM ANY AIR INTAKE. VERIFY LOCATION.
- 13 REMOTE CONDENSERS ON ROOF FOR FREEZER, COOLERS AND ICE MACHINES. TAKE OFF FOR PIPING RUNS TO BE COORDINATED WITH GENERAL CONTRACTOR. G.C. TO RUN WIRING FOR COOLERS AND FREEZER AND FOR REMOTE COMPRESSORS. MECHANICAL/ELECTRICAL SUBCONTRACTOR TO PERFORM FINAL CONNECTION FOR THESE UNITS. COORDINATE LOCATION W/ OWNER. FOR BIDDING PURPOSES REFRIGERANT PIPING COMES IN PRE CHARGED LENGTHS OF 25 ft AND 50 ft. (COOLER AND FREEZER ONLY).

Bakery-Cafe:

0620

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Professional Seal:



Project Title:

**Bakery Cafe #2406**  
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## MEP ROOF PLAN

Project Number:

Sheet Number:

2406

Drawn By:

Author:

Issue Date:

07/05/2022

DPM:

DC

DM:

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CPM:

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**M501**



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# SANITARY PLUMBING ROUGH-IN PLAN

Project Number:

Sheet Number:

2406

Drawn By

JSP

Issue Date:

DRM:

DC

DM:

CU

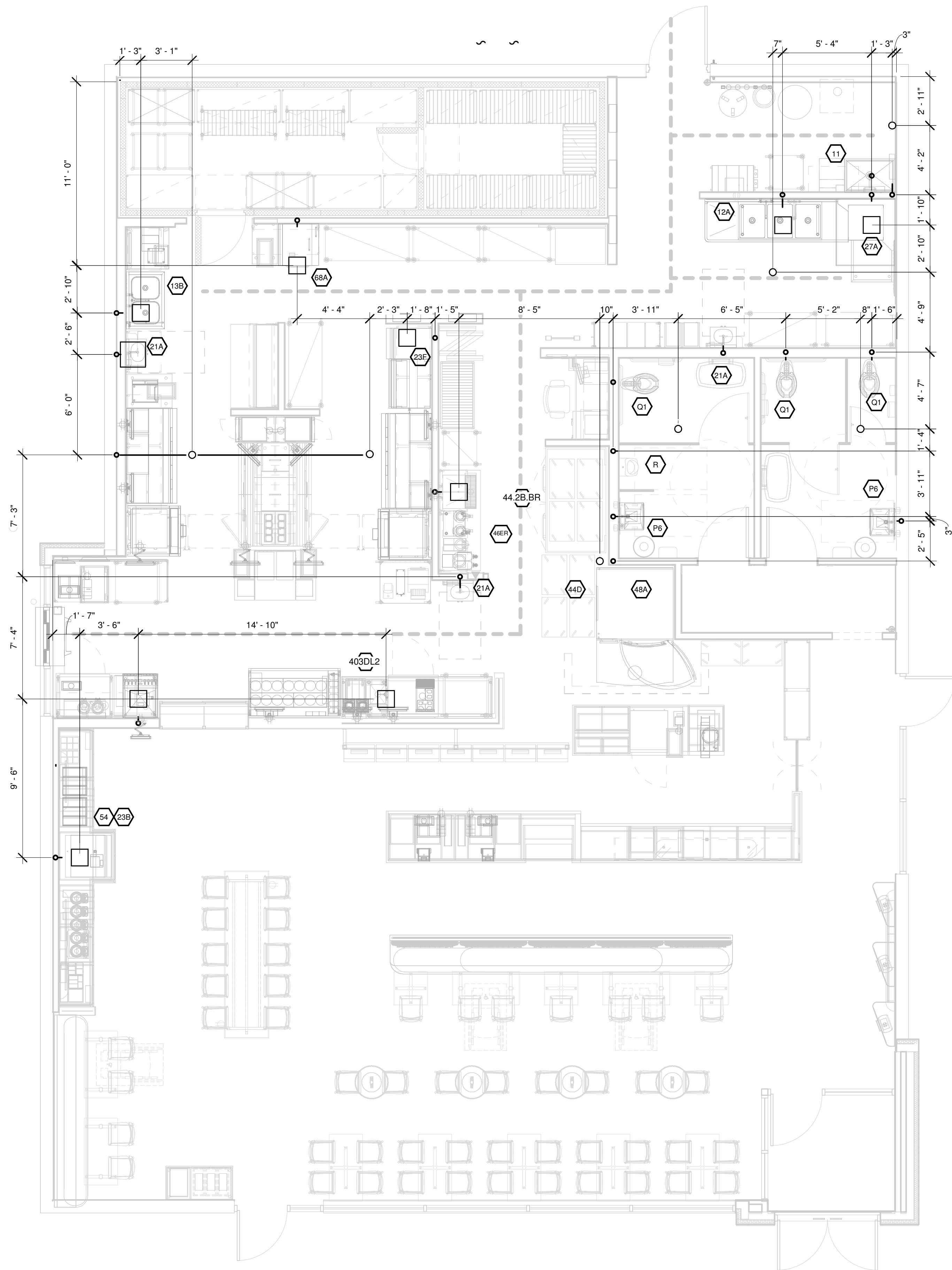
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DC	CH	IB

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SCHEDULE: ROUGH-IN SYMBOLS	
#	NUMERICAL SYMBOL CORRESPONDS TO EQUIPMENT IDENTIFICATION NUMBER. SEE SHEET P303 FOR REFERENCE.
Q1	WATER CLOSET (ADA): 1" CW SUPPLY AT 28 3/4" A.F.F. AND OFFSET 4 3/4" FROM 1" OF FIXTURE
P6	LAVATORY: 1/2" CW & HW SUPPLY AT 22 3/4" A.F.F. AND EACH ONE OFFSET 4" FROM: OF FIXTURE
R	URINAL (ADA): 1" SUPPLY AT 40 7/8" A.F.F. AND OFFSET 4 3/4" FROM: OF FIXTURE
o	SUPPLY ROUGH-IN - SEE DOMESTIC WATER ROUGH-IN SCHEDULE FOR SIZE & HEIGHT
*	EQUIPMENT CONNECTION - SEE DOMESTIC WATER ROUGH-IN SCHEDULE FOR SIZE - SEE EQUIPMENT MANUAL FOR FITTING REQUIREMENTS
NOTE: REFER TO ARCHITECTURAL FLOOR PLAN FOR ALL INTERIOR PARTITION LOCATIONS	

\* ROUGH-INS ARE BASED ON FIXTURES SHOWN IN SCHEDULE ON SHEET P-303. CONTRACTOR TO VERIFY REQUIREMENTS FOR ANY SUBSTITUTION PRIOR TO INSTALLATION.

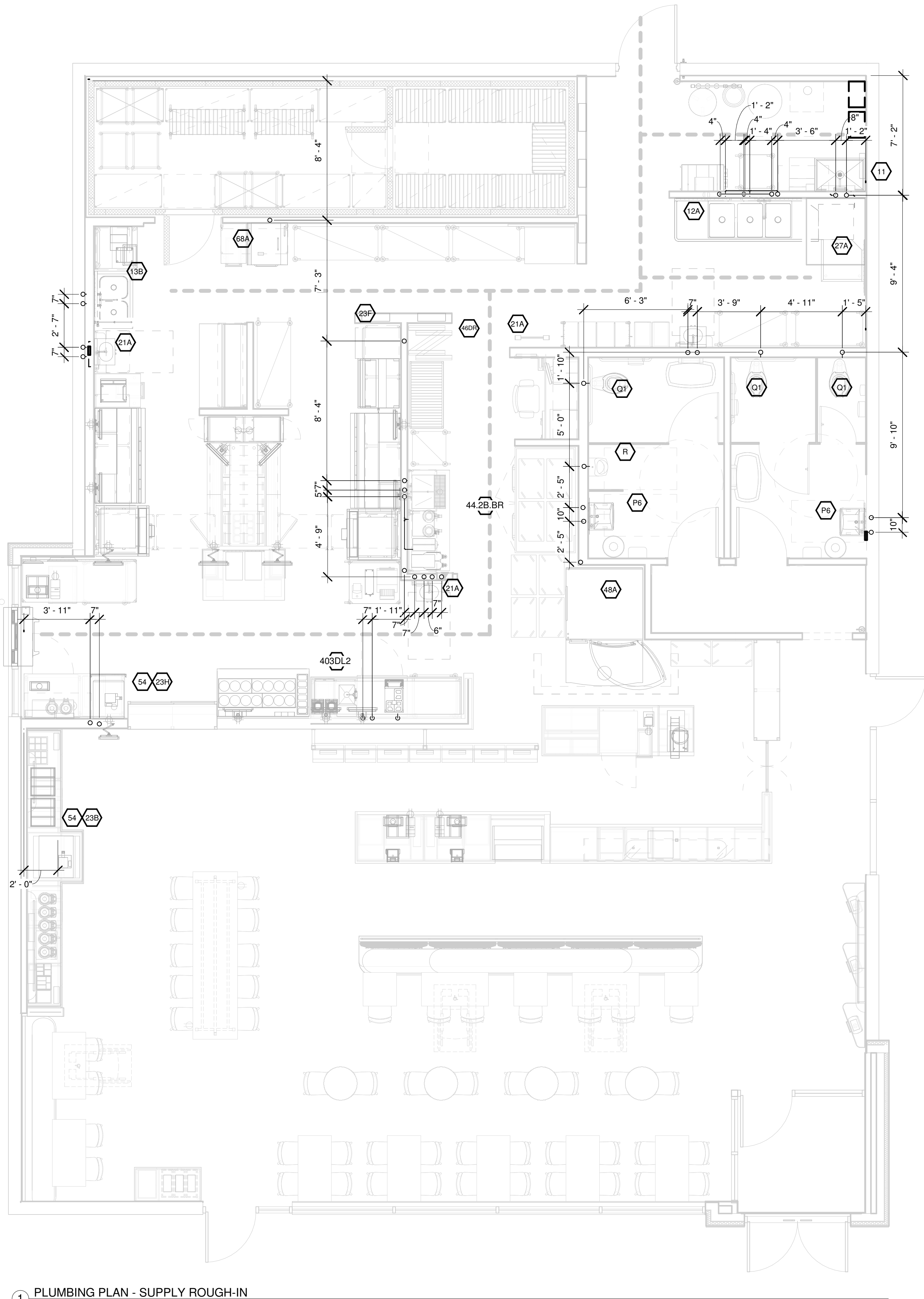
1 | PLUMBING PLAN - WASTE ROUGH-IN

$$1/4'' = 1'-0''$$



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1 PLUMBING PLAN - SUPPLY ROUGH-IN  
1/4" = 1'-0"

SCHEDULE: ROUGH-IN SYMBOLS	
#	NUMERICAL SYMBOL CORRESPONDS TO EQUIPMENT IDENTIFICATION NUMBER. SEE SHEET P303 FOR REFERENCE.
Q1	WATER CLOSET (ADA): 1" CW SUPPLY AT 28 3/4" A.F.F. AND OFFSET 4 3/4" FROM 1 OF FIXTURE
P6	LAVATORY: 1/2" CW & HW SUPPLY AT 22 3/4" A.F.F. AND EACH ONE OFFSET 4" FROM 1 OF FIXTURE
R	URNAL (ADA): 1" SUPPLY AT 40 7/8" A.F.F. AND OFFSET 4 3/4" FROM 1 OF FIXTURE
○	SUPPLY ROUGH-IN - SEE DOMESTIC WATER ROUGH-IN SCHEDULE FOR SIZE & HEIGHT
•	EQUIPMENT CONNECTION - SEE DOMESTIC WATER ROUGH-IN SCHEDULE FOR SIZE - SEE EQUIPMENT MANUAL FOR FITTING REQUIREMENTS
NOTE: REFER TO ARCHITECTURAL FLOOR PLAN FOR ALL INTERIOR PARTITION LOCATIONS	

\* ROUGH-INS ARE BASED ON FIXTURES SHOWN IN SCHEDULE ON SHEET P-303. CONTRACTOR TO VERIFY REQUIREMENTS FOR ANY SUBSTITUTION PRIOR TO INSTALLATION.

Bakery-Cafe:

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PROTOTYPE - NEW CONSTRUCTION  
**Bakery Cafe #2406**  
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DOMESTIC WATER  
ROUGH-IN PLAN &  
NOTES

Project Number:

2406

Drawn By:

JSP

Issue Date:

07/05/2022

DPM:

DC

Sheet Number:

2406

Drawn By:

JSP

Issue Date:

07/05/2022

DM:

CH

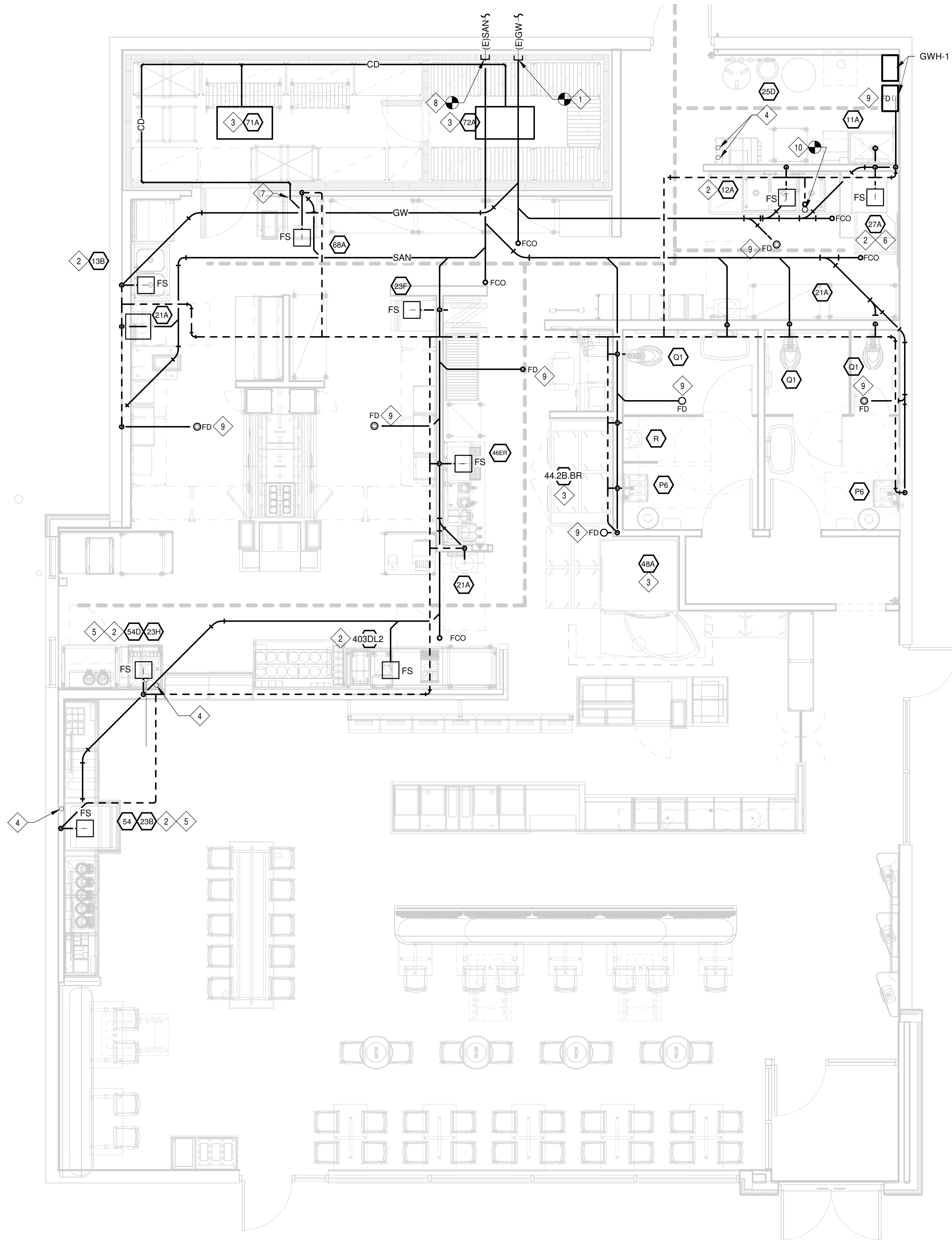
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1 PLUMBING PLAN - DWV  
1/4" = 1'-0"

## PLUMBING KEYED NOTES

- POINT OF CONNECTION TO SITE 4" GREASE WASTE STUB TO SPACE ROUTED TO GB-250 GREASE INTERCEPTOR PROVIDED IN SHELL PACKAGE. FIELD VERIFY EXACT LOCATION, SIZE AND INVERT ELEVATION PRIOR TO WORK.
- EXTEND INDIRECT WASTE TO RECEPTACLE. FIELD VERIFY EXACT ROUTING OF PIPING.
- EXTEND DRAIN LINES FROM FREEZER, COOLER, OVEN AND PROOFER TO FLOOR/HUB DRAIN LOCATED NEARBY. FIELD VERIFY EXACT ROUTING OF PIPING.
- PROVIDE 6" CONDUIT RUN OVERHEAD FROM SODA DISPENSER TO BAG-IN-BOX FOR SODA LINES. CONDUIT TO BE OF MATERIALS APPROVED BY LOCAL CODE. NO PVC ALLOWED IN PLENUM SPACES.
- SECURE DRAIN LINES FOR ICE MACHINE AND SODA DISPENSER TO THE SIDE OF THE CABINET WITH BRACKETS.
- CAST IRON PIPE SHALL BE USED FOR THE FIRST 8' OF DISCHARGE PIPING FOR SOUP RETHERMALIZER AND DISHWASHER.
- 1 1/2" CONDENSATE DRAIN DOWN WALL AND TERMINATE THRU WALL INTO HUB DRAIN WITH A CODE APPROVED AIR GAP.
- POINT OF CONNECTION TO EXISTING 4" SANITARY STUB PROVIDED IN SHELL PACKAGE. FIELD VERIFY EXACT LOCATION, SIZE AND INVERT ELEVATION PRIOR TO WORK.
- 1/2" CW FROM TRAP PRIMER. PRECISION PLUMBING PRODUCTS MODEL PP500 OR APPROVED EQUAL.
- POINT OF CONNECTION TO EXSITING 4" VENT THROUGH ROOF. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO WORK.

### NOTES:

- HOLD CONDENSATE WASTE PIPES 1" AWAY FROM THE WALLS AND GRAVITY DRAIN TO HUB DRAINS WITH THE DRAIN LINE HELD 6" OFF THE FLOOR.
- LOCATED FLOOR SINKS WITHIN 1FT OF BOTTOM DRAINED EQUIPMENT.

Bakery-Cafe:

0620

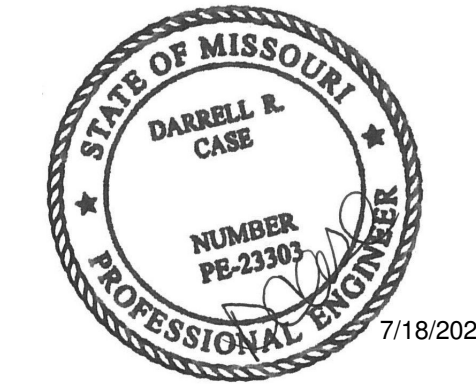
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Project Title:

PROTOTYPE - NEW CONSTRUCTION

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## SANITARY PLUMBING PLAN

Project Number:

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JSP

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07/05/2022

DPM:

DC

Sheet Number:

2406

Drawn By:

JSP

Issue Date:

07/05/2022

DPM:

DC

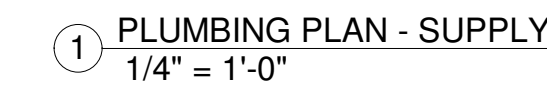
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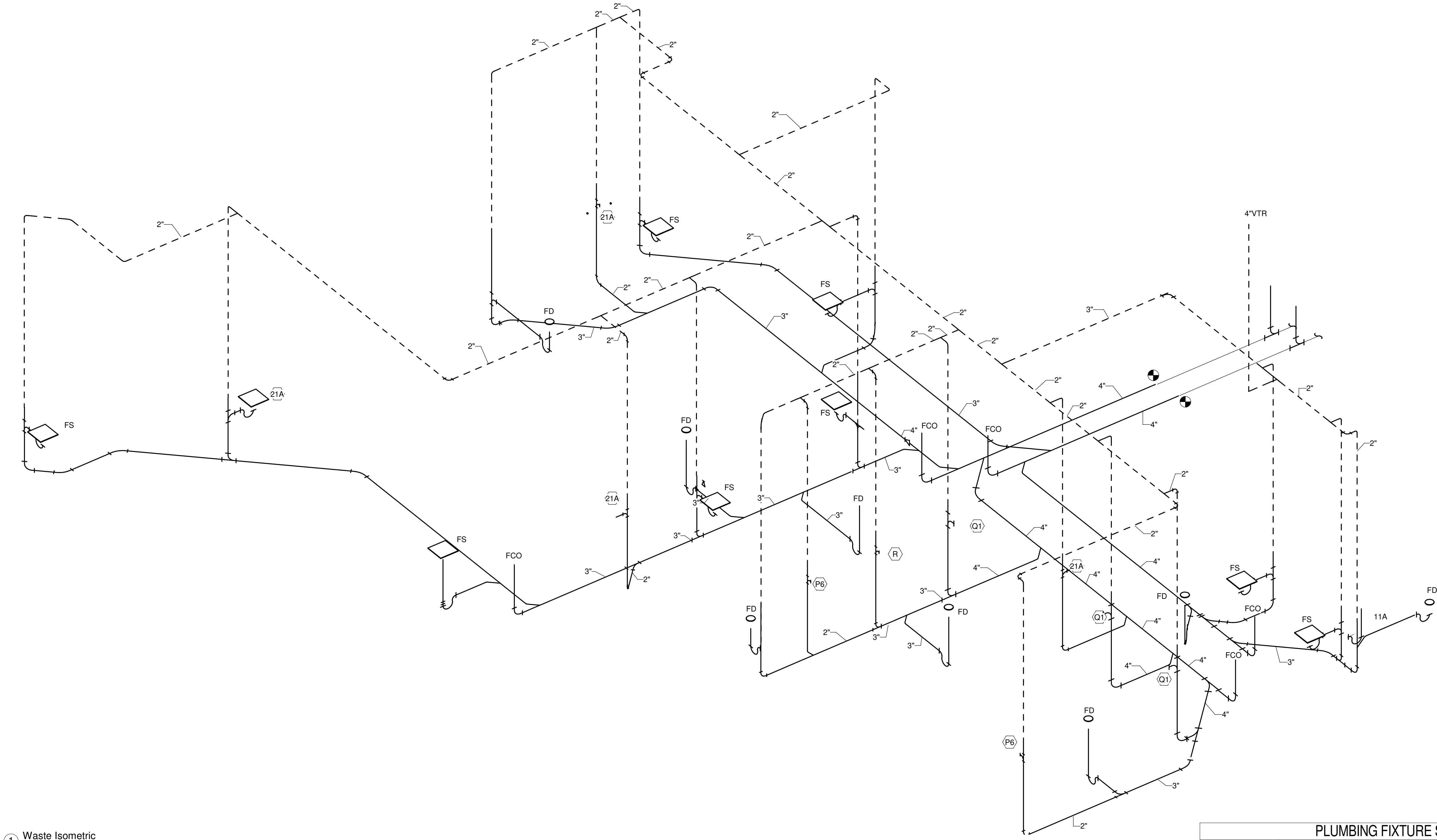
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**P103**



- 1 CONTRACTOR SHALL PERFORM A WATER TEST TO DETERMINE WATER HARDNESS. IF RESULT IS BELOW THE MAXIMUM REQUIREMENTS FOR THE KITCHEN EQUIPMENT, CONTRACTOR IS TO FURNISH AND INSTALL WATER SOFTENER AS INDICATED AND SPECIFIED. SEE DETAIL P301. IF RESULT IS ABOVE THE MAXIMUM REQUIREMENTS FOR THE KITCHEN EQUIPMENT, CONTRACTOR IS TO FURNISH AND INSTALL ALTERNATE WATER SOFTENER AND MODIFY PIPING AS INDICATED ON DETAIL 10/P301.
- 2 1/2"NG CONNECTION TO OVEN (180 MBH). SEE OVEN DETAIL ON SHEET M402.
- 3 3/4"NG CONNECTION TO WATER HEATER (199 MBH). SEE DETAIL 11 ON SHEET P301.
- 4 NEW 2" DOMESTIC WATER SERVICE. SEE PROJECT CIVIL DRAWINGS FOR CONTINUATION. VERIFY THAT SERVICE IS ADEQUATE TO SUPPLY 45 PSI AFTER METER AND BACKFLOW PREVENTER. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES. CONTRACTOR SHALL FIELD VERIFY REQUIREMENTS PRIOR TO BID. BID TO INCLUDE ALL WORK NECESSARY FOR A FULLY OPERATIONAL SYSTEM.
- 5 PROVIDE AND INSTALL TANKLESS WATER HEATERS AS SHOWN.
- 6 INSTALL COLD WATER FILTRATION SYSTEM. - SEE DETAIL ON SHEET P301. SEE EQUIPMENT PLAN AND SCHEDULE FOR MORE INFORMATION.
- 7 2" PRESSURE REDUCING BACKFLOW PREVENTER (ZURN/WILKINS MODEL 950XL2, OR APPROVED EQUAL) INSTALLED IN THE VERTICAL POSITION.
- 8 POINT OF CONNECTION TO 2" GAS STUB TO SPACE. VERIFY EXACT SIZE, LOCATION, AND DELIVERY PRESSURE IN FIELD PRIOR TO WORK.
- 9 PROVIDE GRUNDFOS 59896877 ALPHA 15-55F RECIRCULATION PUMP.
- 10 1/2" SUPPLY PIPING DOWN WALL TO BE ROUTED BELOW GRADE TO SERVE SODA DISPENSER. PROVIDE SHUT-OFF VALVE PRIOR TO ROUTING BELOW GRADE.
- 11 PROVIDE SEPERATE WATER CONNECTION FOR CHEMICAL DISPENSER INSTALLATION. SEE SHEET P304 FOR BACKFLOW INFORMATION.
- 12 SUPPLY PIPING ROUTED BELOW GRADE TO SERVE SINK. PROVIDE SHUTOFF VALVE PRIOR TO ROUTING BELOW GRADE.





1 Waste Isometric

PLUMBING FIXTURE SCHEDULE				
PLAN MARK	MANUFACTURER	MODEL	ACCESSORIES	NOTES
FLOOR DRAINS (TYPICAL)	WADE OR EQUAL	1103STD6 W/6" STRAINER	P-TRAP TRAP PRIMER (RESTROOMS ONLY)	FURNISH FULL GRATE AND 4" HIGH FUNNEL FOR INDIRECT DRAIN FIXTURES
FLOOR CLEANOUT	WADE OR EQUAL	6000		NICKEL BRONZE SECURED TOP
FLOOR SINK	WATTS	FS-740	1/2 GRATE	12"x12"x8" W/PORCELAIN GRATE
LAV	TOTO	LT307	1-1/4x1-1/2 P-TRAP STOP VALVES	MOUNTING HGT PER ADA, SEE ARCH SHEET A112
LAV	KOHLER	5-2084-R	1-1/4x1-1/2 P-TRAP STOP VALVES	MOUNTING HGT PER ADA, SEE ARCH SHEET A112
FAUCET (FOR LAV)	TOTO	LET105-D10EM	BLADE TYPE HANDLES AM. STD. 0000.172V	CHROME
MSB	FLORESTONE	MSR-2424	W/ MOEN FAUCET 8230 MR 372 MOP HANGER, STRAINER, TILE FLANGES	24" X 24" SEE ARCH PLANS TERRAZZO FINISH
WC (ADA)	TOTO	CT 705ELN	WHITE-OPEN FRONT SEAT. NO COVER	W/ AM. STD. MANUAL FLUSH VALVE 6047.161.02
WC (ADA)	TOTO	CT 705ELN	WHITE-OPEN FRONT SEAT. NO COVER	W/ TOTO TET1LA328CP FLUSH VALVE
GREASE INTERCEPTOR	SCHIER	GB-250	EQUIP WITH TELE GLIDE, ADJUSTABLE RISERS AND HEAVY DUTY TRAFFIC RATED LID	100 G.P.M., 1,076 LB. VENT PER LOCAL CODE
GWH (GAS WATER HEATER)	A.O. SMITH	BTH-199	DIRECT VENT SEALED COMBUSTION	100 GAL. 199,900 BTU, 230 GPH RECOVERY
FPWH (FREEZEPROOF WALL HYDRANT)	JAY R. SMITH	5609QT OR EQUAL	KEY OPERATED INTEGRAL VACUUM BREAKER	1/2" FEMALE INLET 3/4" HOSE CONNECTION

Bakery-Cafe:

0620

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Professional Seal:

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe#2406

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LEES SUMMIT, MO 64086

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PLUMBING DWV RISER

Project Number: 2406

Drawn By: JSP

Issue Date: 07/05/2022

DPM: DC

DM: CH

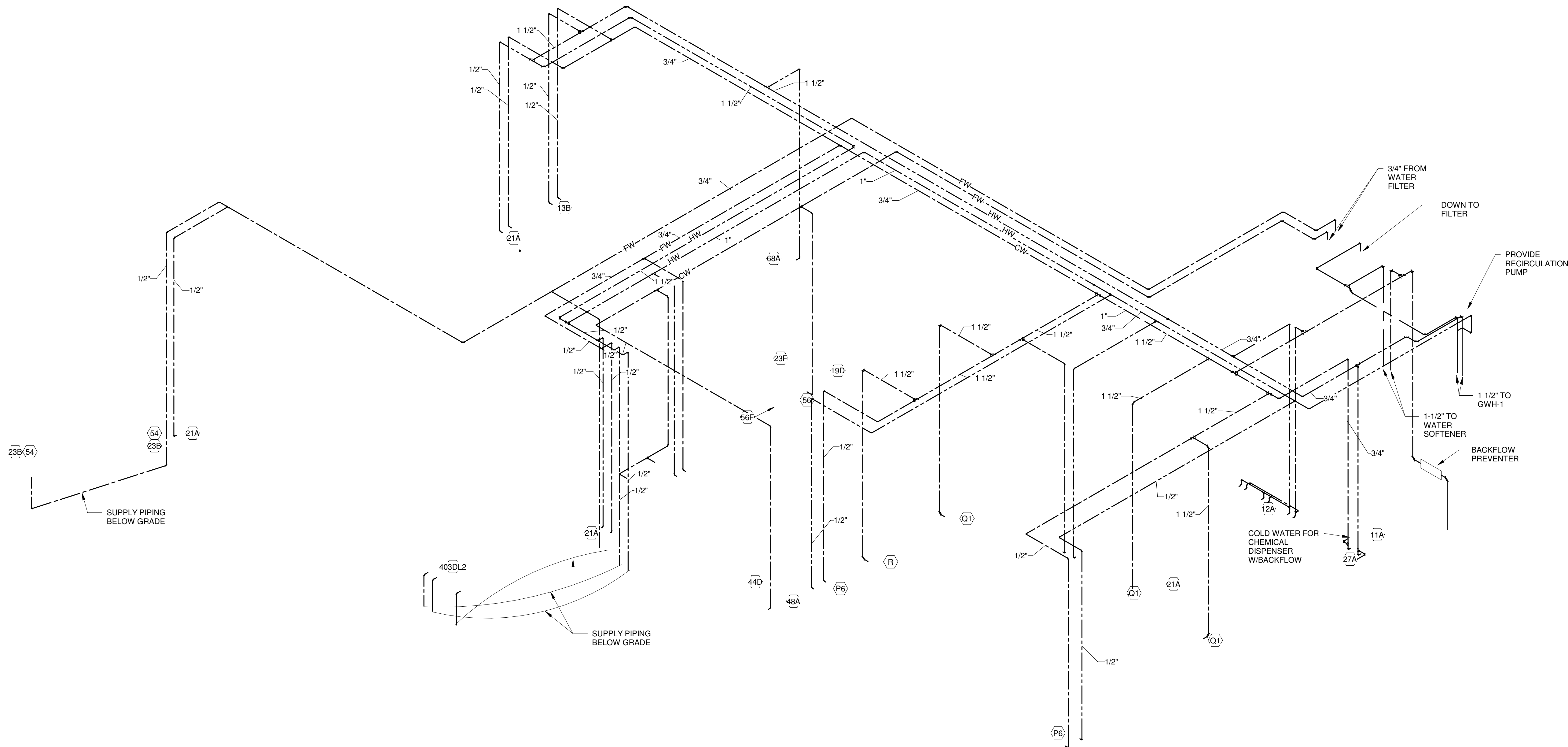
CPM: JP

Sheet Number: P201

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PG0202 02 V1

1 Supply Isometric



Bakery-Cafe:

0620

SYSTEM: NEXT GEN

Project Team:

CASE Engineering Inc.

796 Merus Court  
St. Louis, MO 63026  
T 636.349.1600  
F 636.349.1730  
CERTIFICATE OF AUTHORITY NO. 001498

Professional Seal:

STATE OF MISSOURI

DARRELL R. CASE

NUMBER PE-23305

PROFESSIONAL ENGINEER

7/18/2022

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe#2406

1410 NE DOUGLAS ST

LEES SUMMIT, MO 64086

Consultant Copyright Placeholder

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

PLUMBING SUPPLY RISER

Project Number: 2406

Sheet Number: P202

Drawn By: JSP

Issue Date: 07/05/2022

DPM: DC

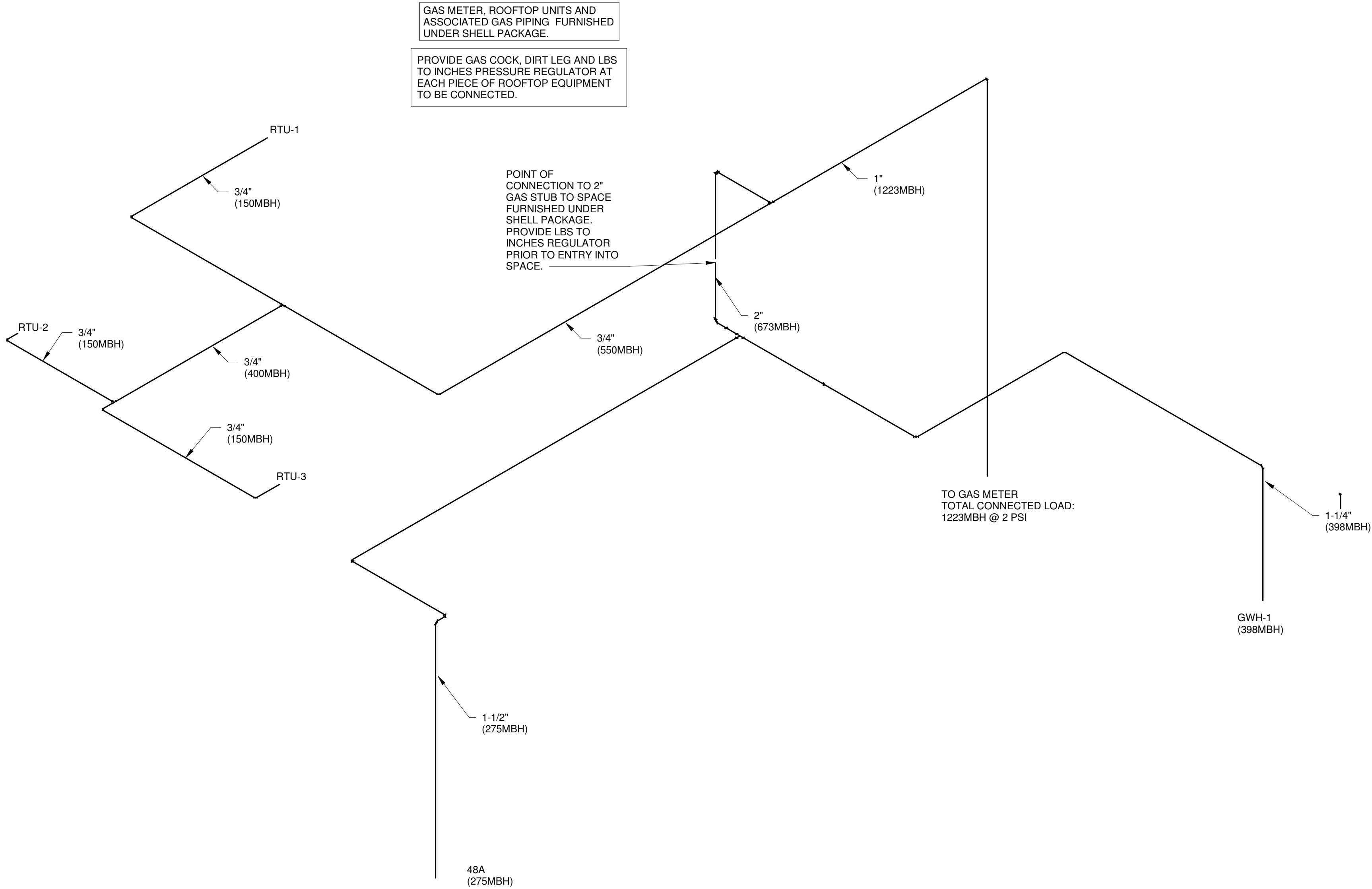
DM: CH

CPM: JP

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PG020-02 V1

1 Gas Isometric



GAS LOAD SUMMARY			
SYSTEM	DESIGNATION	EQUIPMENT	MBH
PLUMBING	GWH-1	(2)WATER HEATERS	398
HVAC	RTU-1	ROOFTOP UNIT	120
	RTU-2	ROOFTOP UNIT	120
	RTU-3	ROOFTOP UNIT	180
KITCHEN	48A	OVEN	180
TOTAL NATURAL GAS CONNECTED LOAD			998
GAS METER REQUIREMENTS	MBH CAPACITY		998
	TOTAL DEVELOPED LENGTH INCLUDING EQUIVALENT PIPE LENGTH FOR FITTING AND VALVE FRICTION LOSSES TO GAS METER.		75 FT X 1.2 = 90FT
	CONSULT GAS UTILITY COMPANY FOR REGULATOR RATING		

Bakery-Cafe:

0620

SYSTEM: NEXT GEN

Project Team:

CASE  
Engineering Inc.  

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Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION  
**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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No.	Description	Date
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GAS RISER

Project Number:

2406

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JSP

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07/05/2022

DPM:

DC

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2406

Drawn By:

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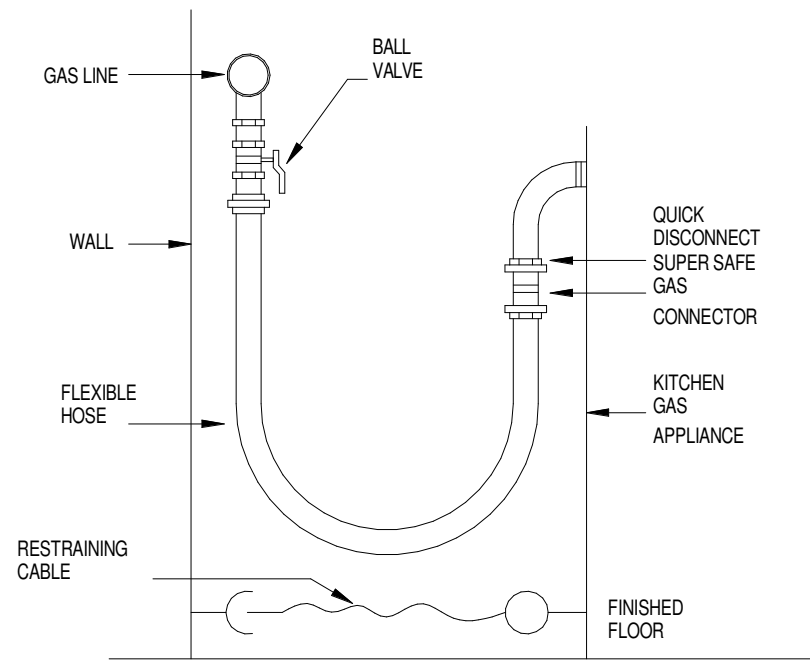
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P203

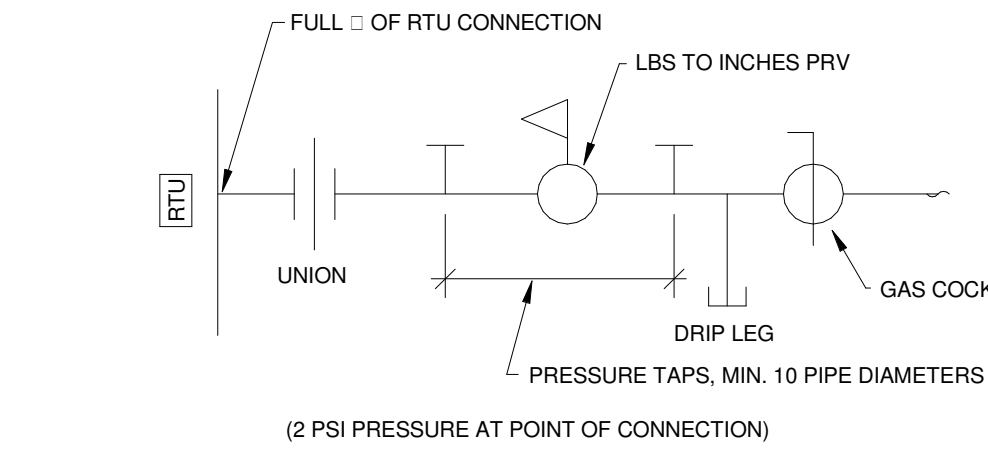


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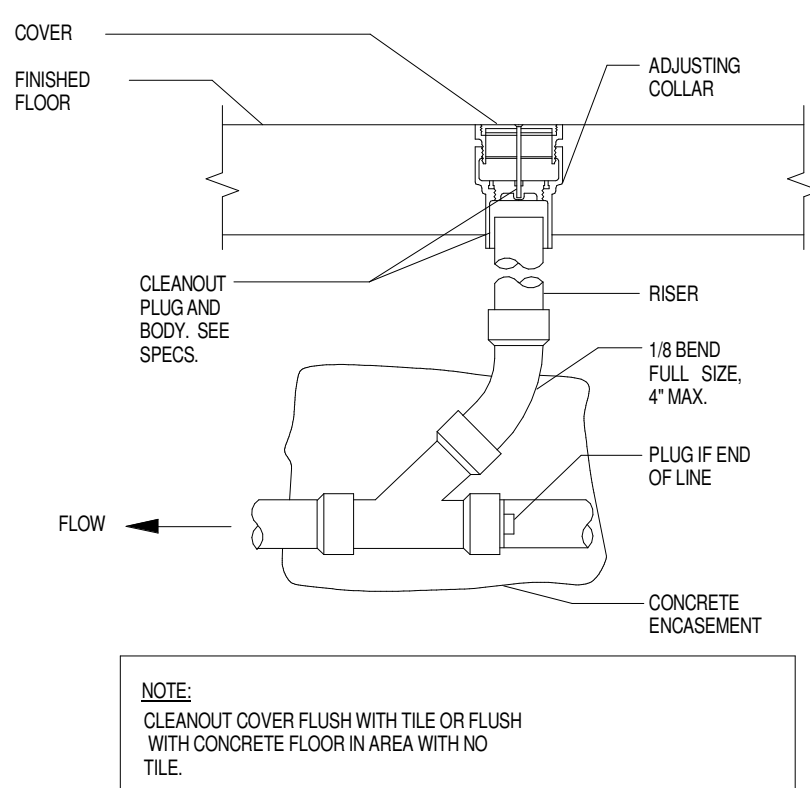
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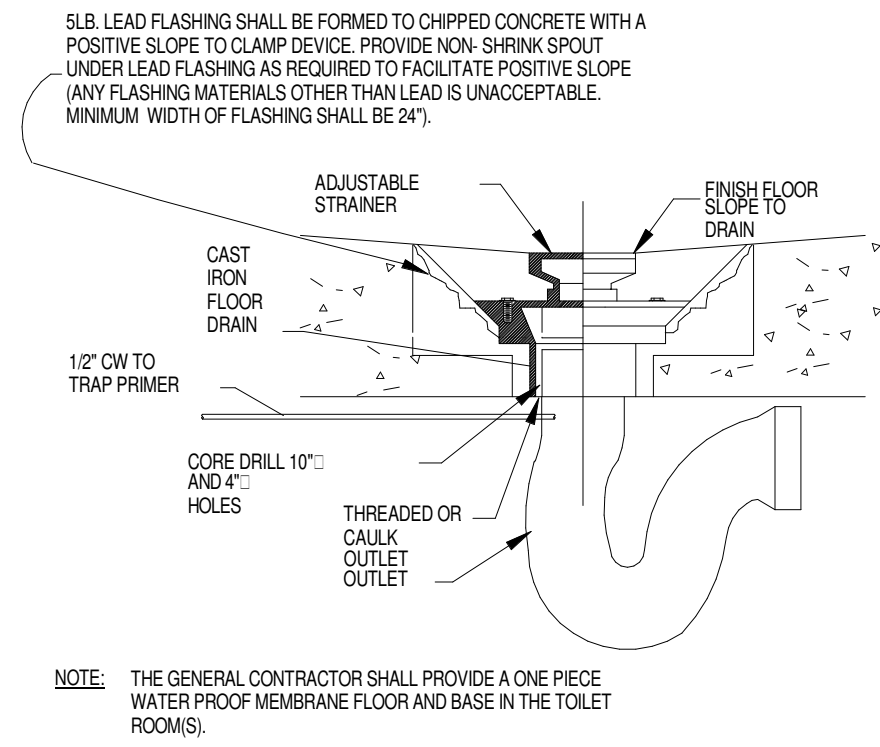
**1 KITCHEN EQUIPMENT GAS CONNECTION DETAIL**  
SCALE: NONE



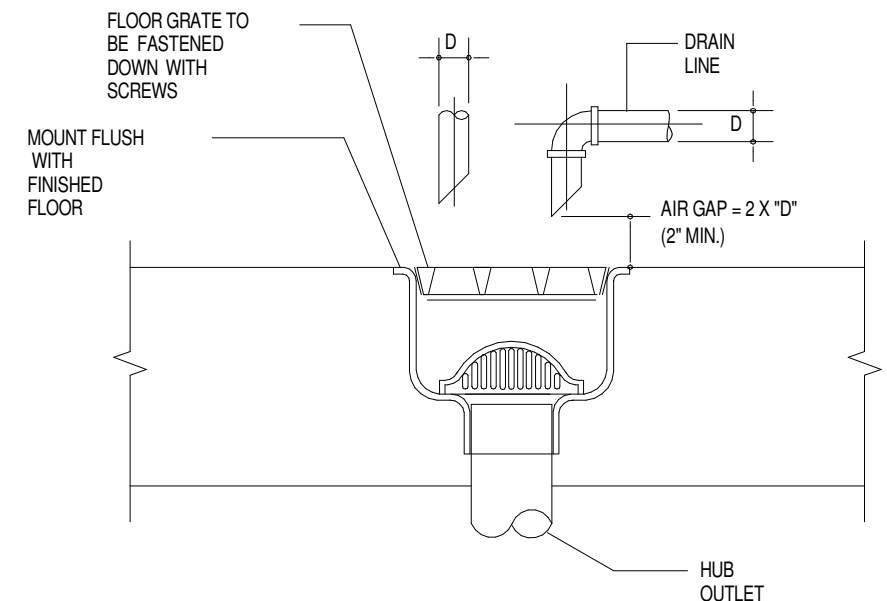
**2 GAS-FIRED EQUIPMENT GAS PIPING DETAIL**  
SCALE: NONE



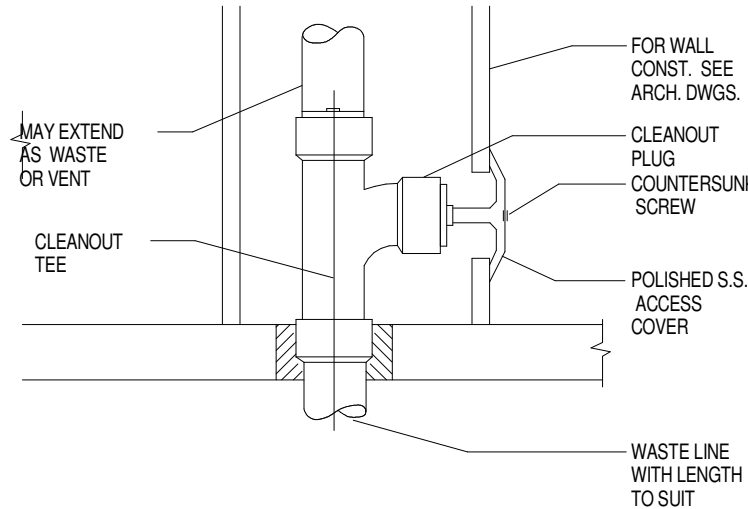
**3 FLOOR CLEAN-OUT DETAIL**  
SCALE: NONE



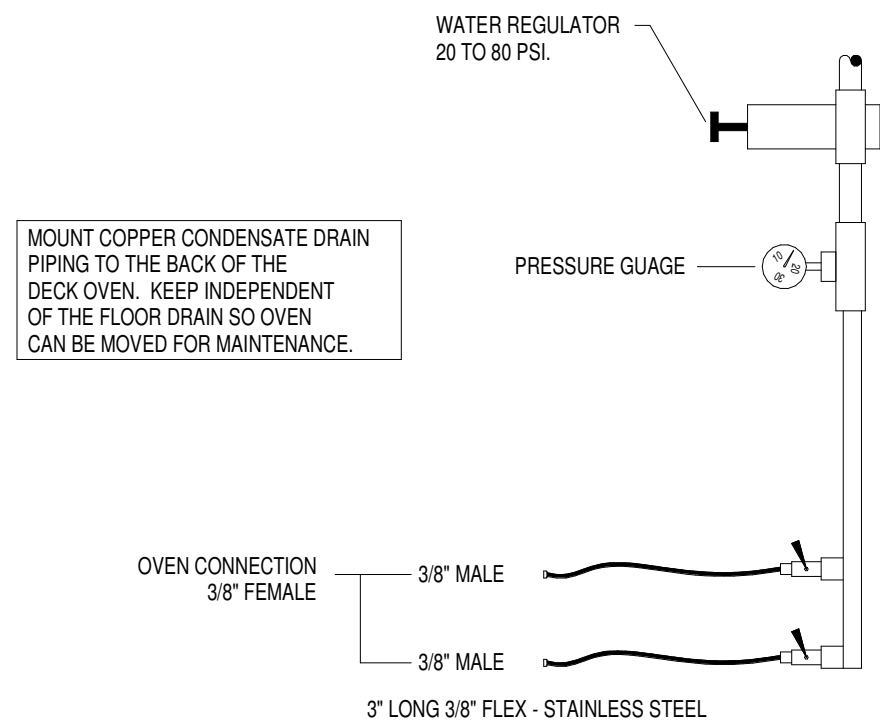
**4 FLOOR DRAIN w/TRAP PRIMER**  
SCALE: NONE



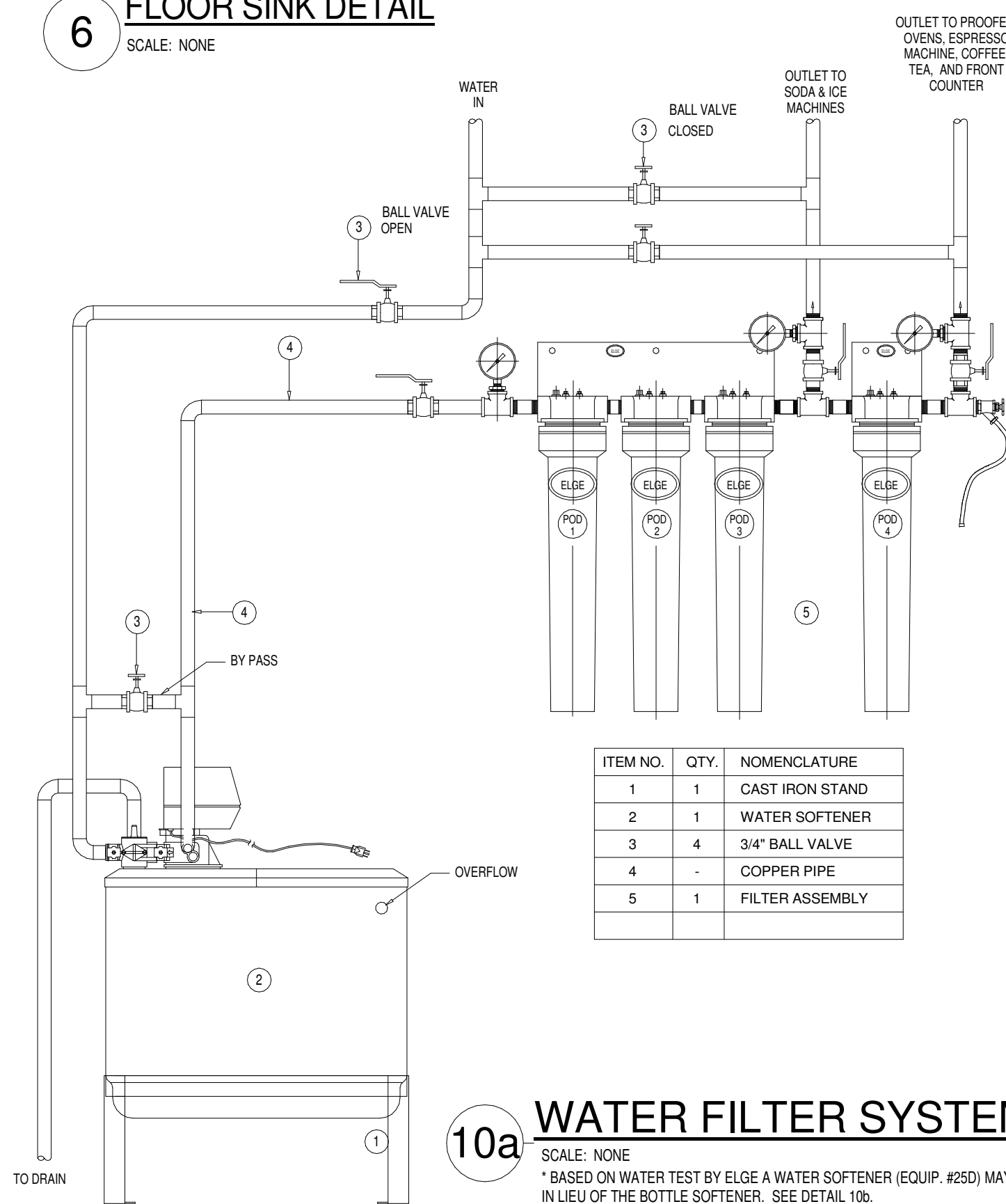
**6 FLOOR SINK DETAIL**  
SCALE: NONE



**7 WALL CLEAN-OUT DETAIL**  
SCALE: NONE



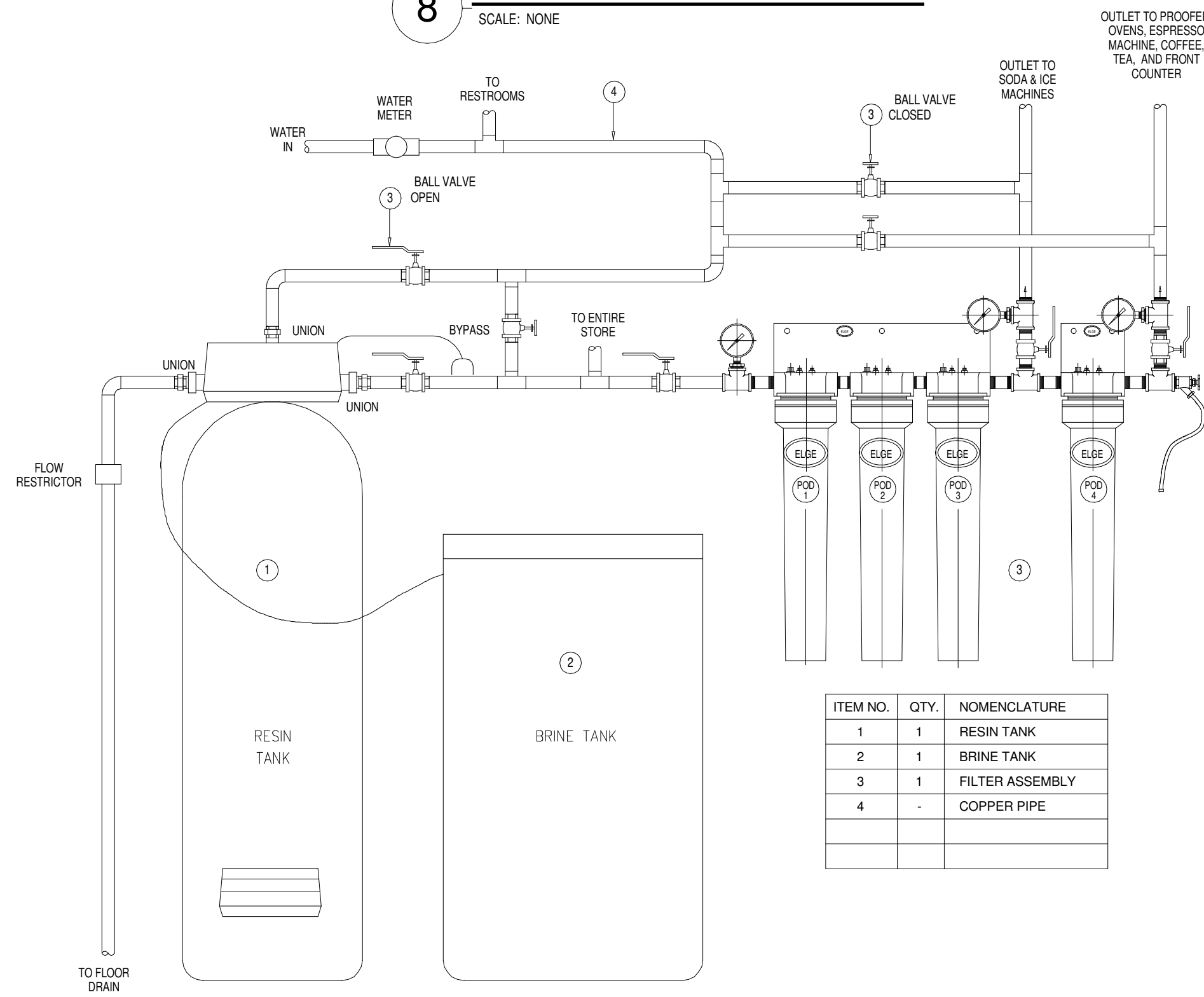
**8 2-DECK OVEN WATER SUPPLY DETAIL**  
SCALE: NONE



**10a WATER FILTER SYSTEM DETAIL \***  
SCALE: NONE  
\* BASED ON WATER TEST BY ELGE A WATER SOFTENER (EQUIP. #250) MAY BE PROVIDED IN LIEU OF THE BOTTLE SOFTENER. SEE DETAIL 10b.

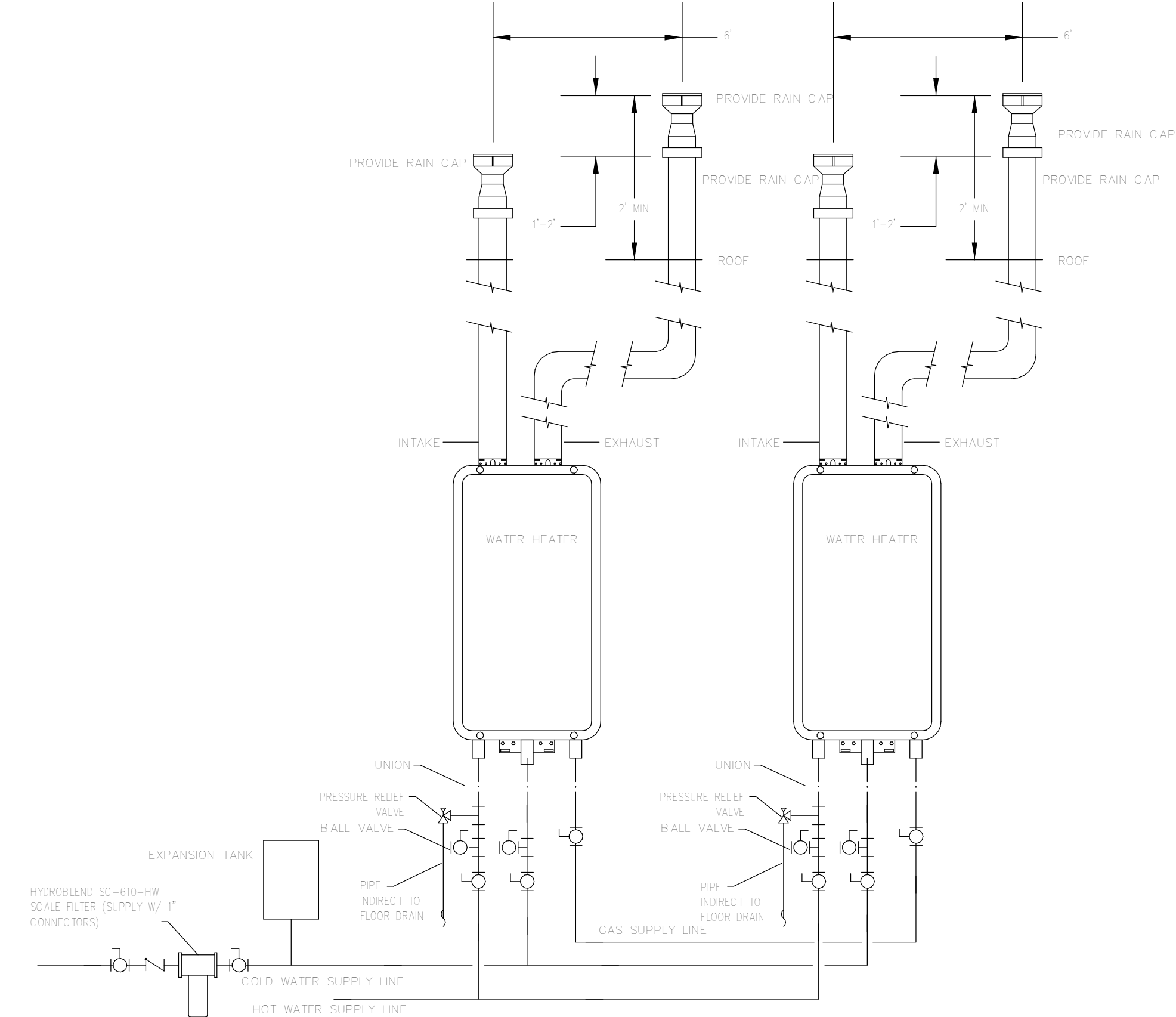
ELGE NATIONAL ACCOUNT CONTACT INFORMATION:  
David J. Iannuzzi  
ELGE Filtration  
Office 800-782-ELGE (3543)  
Dave@ElgePlumbing.com  
43 Summer Street  
Somerville, MA 02143

ITEM NO.	QTY.	NOMENCLATURE
1	1	CAST IRON STAND
2	1	WATER SOFTENER
3	4	3/4" BALL VALVE
4	-	COPPER PIPE
5	1	FILTER ASSEMBLY



**10b WATER FILTER SYSTEM DETAIL \***  
SCALE: NONE  
\* BASED ON WATER TEST BY ELGE A BOTTLE SOFTENER (EQUIP. #250) MAY BE PROVIDED IN LIEU OF THE WATER SOFTENER. SEE DETAIL 10a.

ITEM NO.	QTY.	NOMENCLATURE
1	1	RESIN TANK
2	1	BRINE TANK
3	1	FILTER ASSEMBLY
4	-	COPPER PIPE



**11 TANKLESS WATER HEATERS DETAIL**  
SCALE: NONE

Bakery-Cafe:

0620

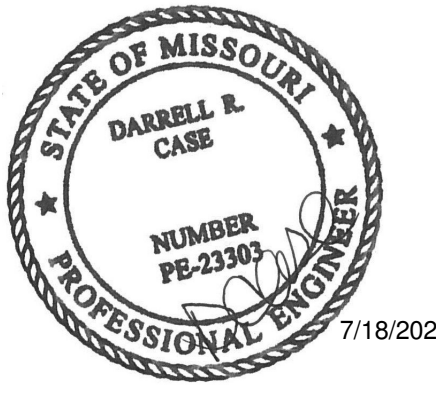
SYSTEM: NEXT GEN

Project Team:

**CASE**  
Engineering Inc.

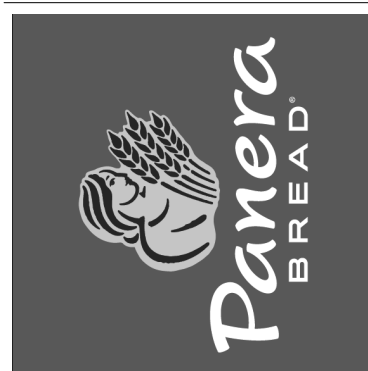
796 Menus Court  
St. Louis, MO 63026  
T 636.349.1600  
F 636.349.1730  
CERTIFICATE OF AUTHORITY NO. 001498

Professional Seal:



Project Title:

**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

PLUMBING DETAILS

Project Number:

Sheet Number:

2406

Drawn By:

JSP

Issue Date:

07/05/2022

DPM:

DC

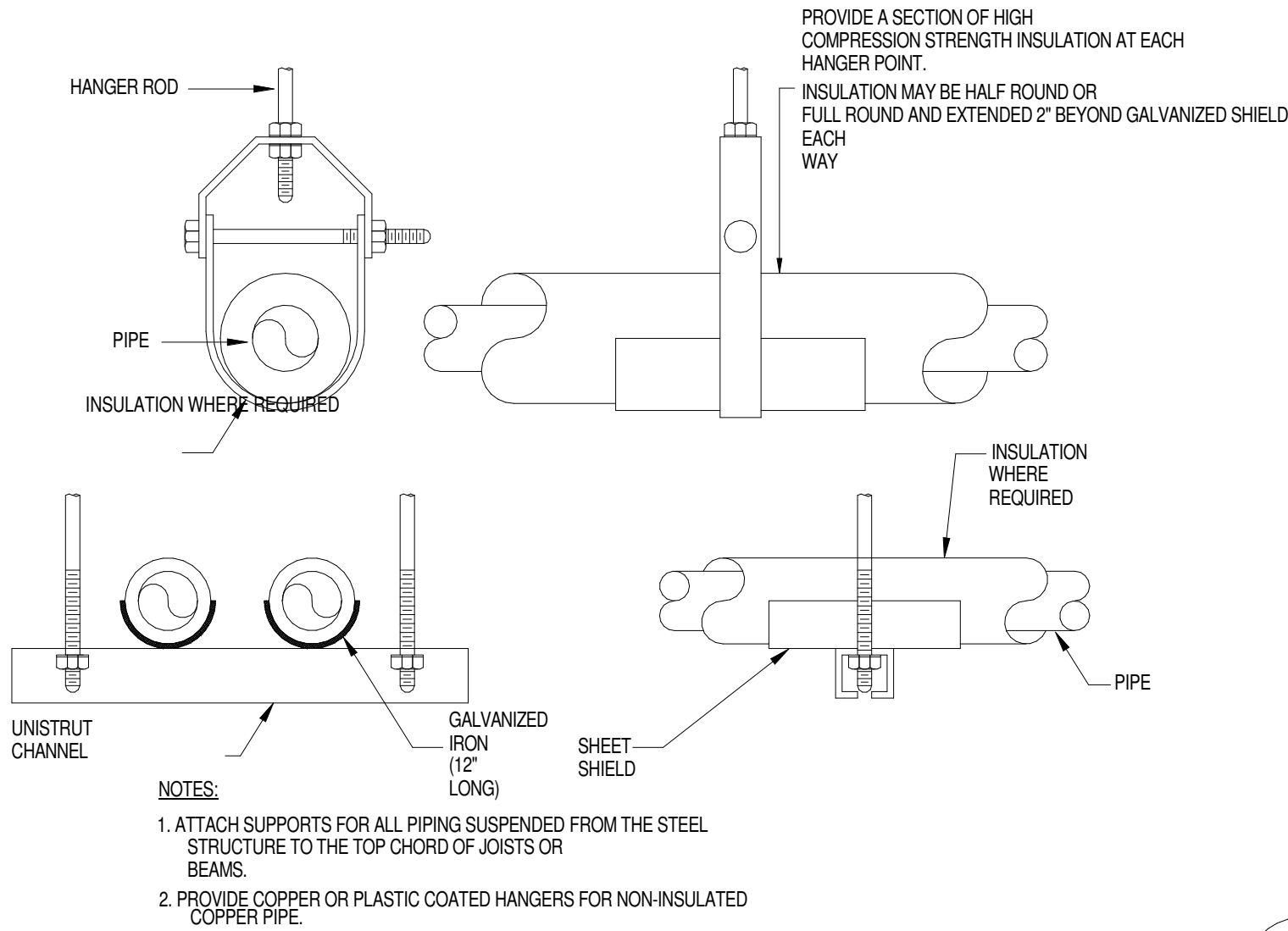
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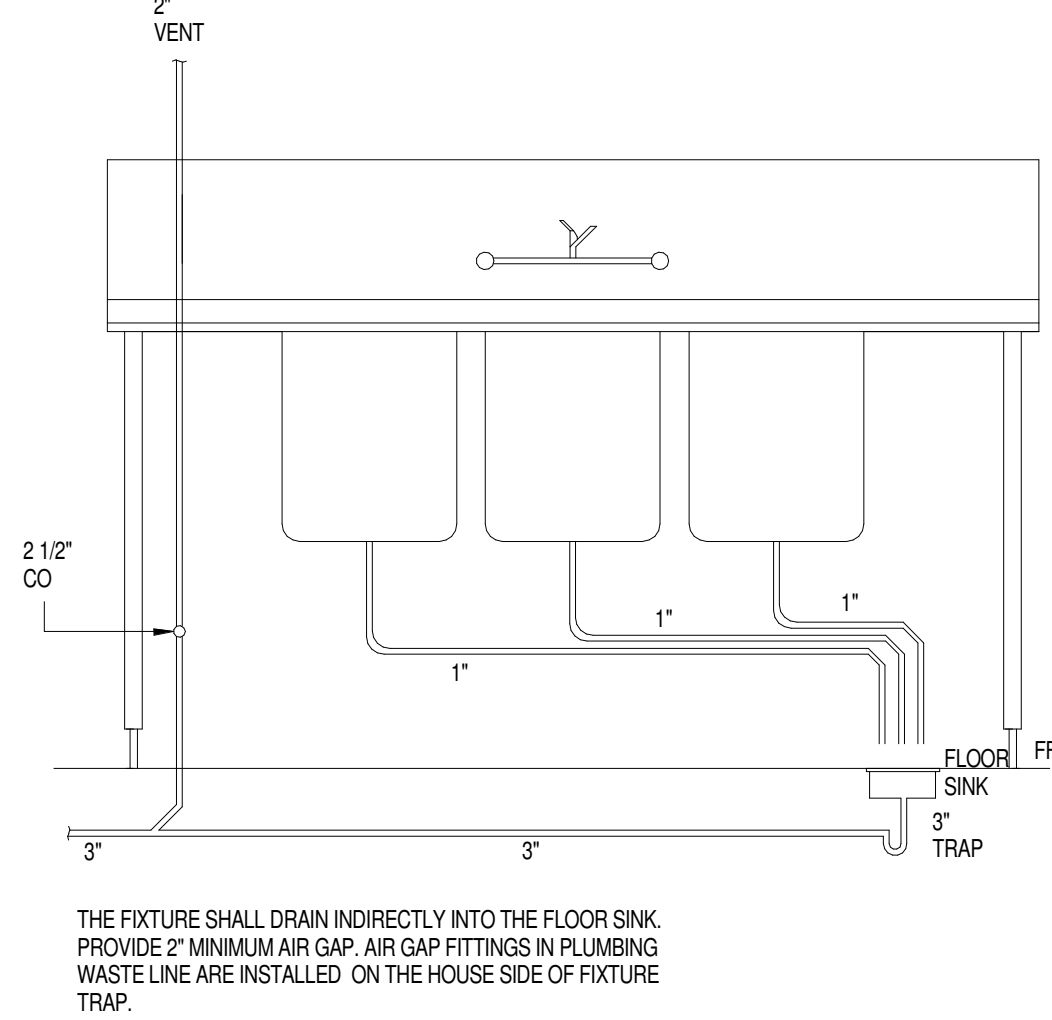
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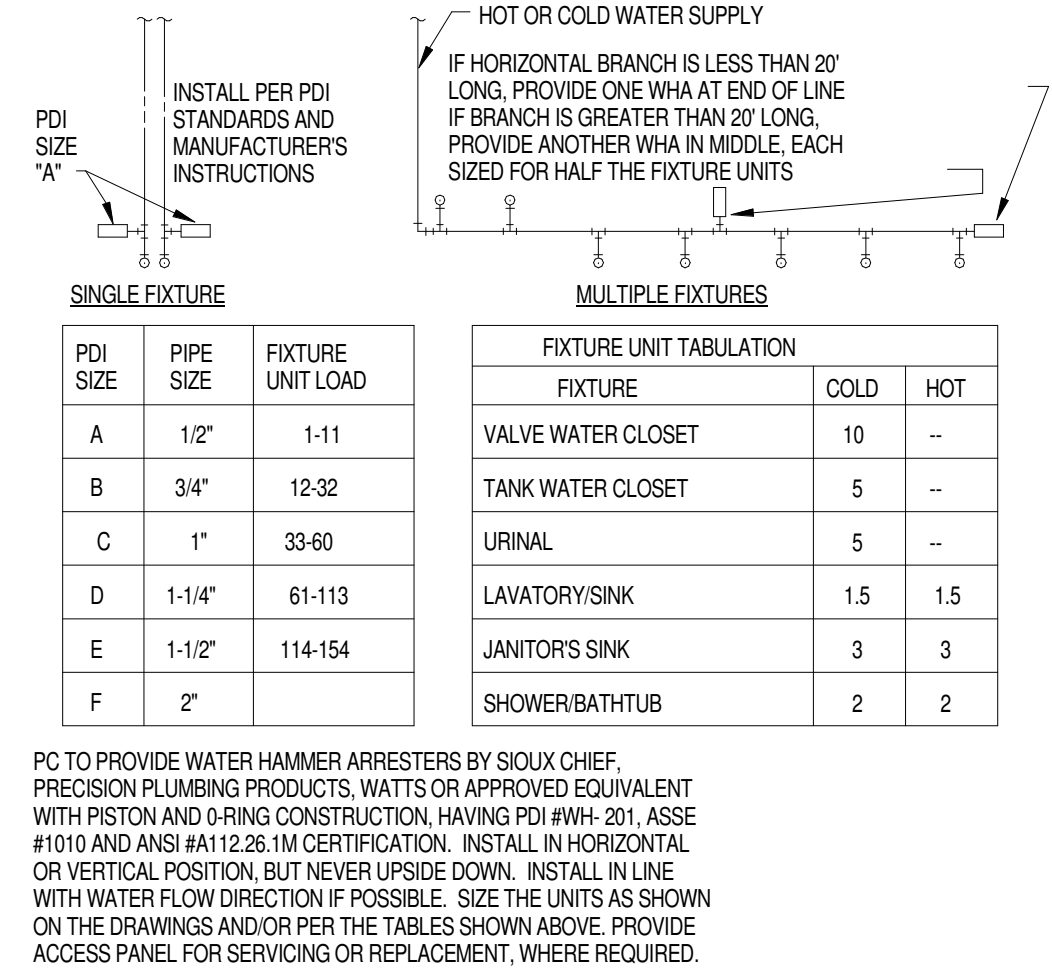
**P301**



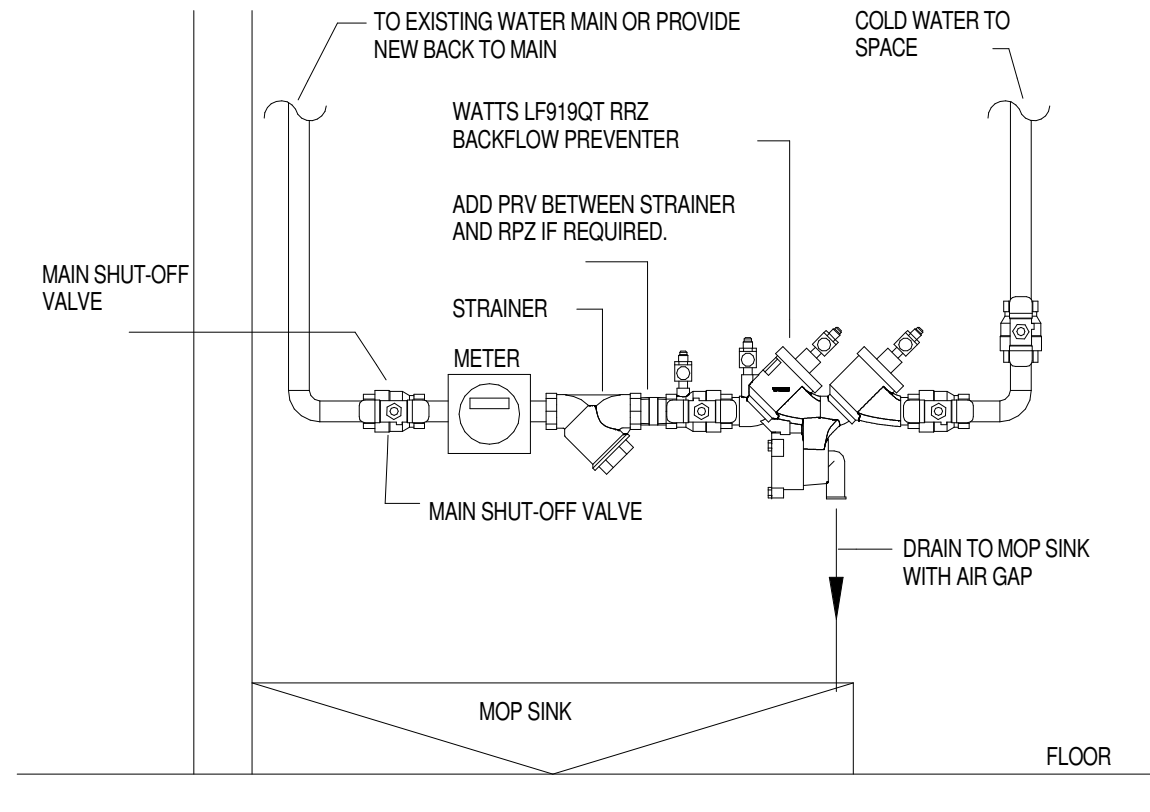
1 **PIPE HANGER DETAIL**  
SCALE: NONE



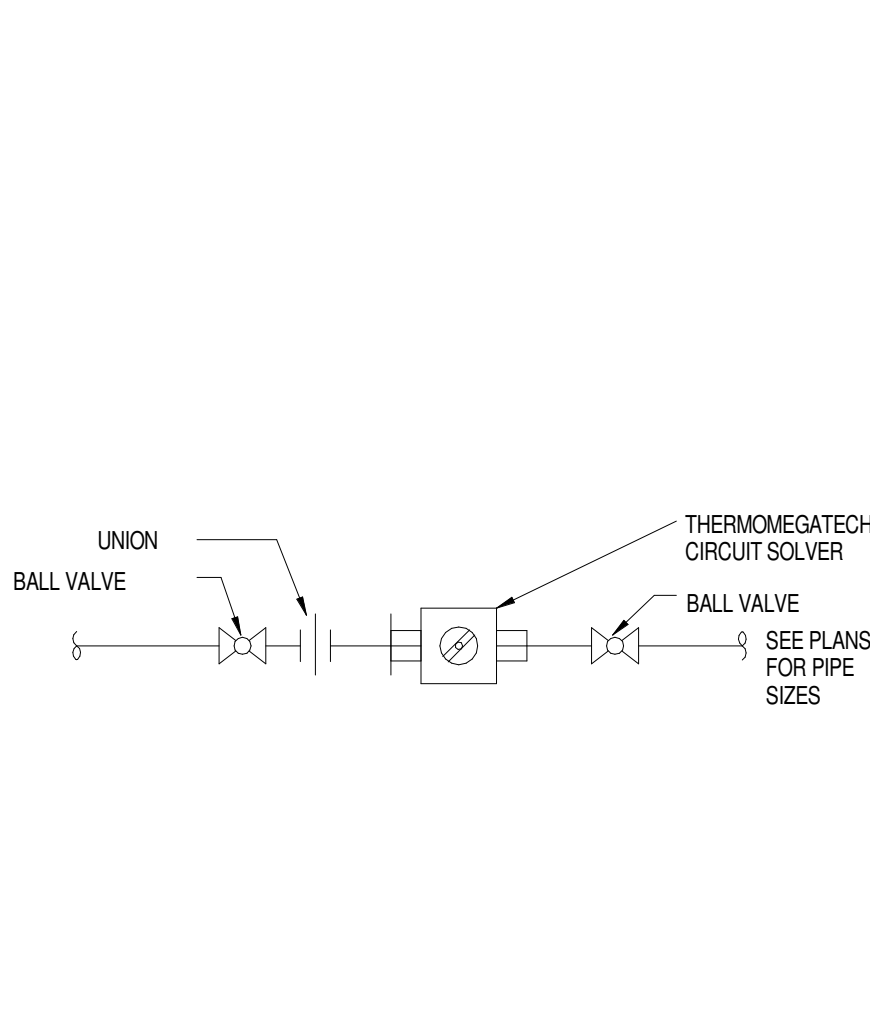
2 **3 COMPARTMENT SINK DETAIL**  
SCALE: NONE



3 **WATER HAMMER ARRESTOR DETAIL**  
SCALE: NONE



4 **WATER SERVICE PIPING DETAIL**  
SCALE: NONE



5 **BALANCING VALVE DETAIL**  
SCALE: NONE

- FURNISH AND INSTALL AS INDICATED ON THE PLANS. CIRCUIT SOLVER IN THE DOMESTIC HOT WATER PIPING. CIRCUIT SOLVER SHALL BE SELF CONTAINED AND FULLY AUTOMATIC WITHOUT ADDITIONAL PIPING OR CONTROL MECHANISMS. VALVE SHALL BE A CIRCUIT SOLVER AS MANUFACTURED BY THERMOMOGATECH, INC. OR EQUIVALENT. A CIRCUIT SOLVER SHALL REGULATE THE FLOW OF RECIRCULATED DOMESTIC HOT WATER BASED ON WATER TEMPERATURE ENTERING CIRCUIT SOLVER REGARDLESS OF SYSTEM OPERATING PRESSURE.
  - WHEN FULLY CLOSED CIRCUIT SOLVER SHALL BYPASS A MINIMUM FLOW TO MAINTAIN DYNAMIC CONTROL OF THE RECIRCULATING LOOP AND PROVIDE A MEANS FOR SYSTEM SANITIZING.
    - CIRCUIT SOLVER SHALL BE FACTORY ADJUSTABLE FROM 105 F (40.5C) TO 140F (60C) AS REQUIRED BY PROJECT CONDITIONS. (OTHER SETPOINTS AVAILABLE, CONSULT FACTORY) A CIRCUIT SOLVER SHALL MODULATE BETWEEN OPEN AND CLOSED POSITION WITHIN A 10F (5.5C) RANGE.
    - CIRCUIT SOLVER SHALL BE AVAILABLE IN SIZES RANGING FROM 1/2 INCH NPT TO 2 INCH NPT.
  - CIRCUIT SOLVER BODY AND ALL INTERNAL COMPONENTS SHALL BE CONSTRUCTED OF STAINLESS STEEL WITH MAJOR COMPONENTS CONSTRUCTED OF TYPE 303 STAINLESS STEEL.
    - CIRCUIT SOLVER SIZES 1/2 INCH THROUGH 2 INCH SHALL BE RATED TO 200 PSIG MAXIMUM WORKING PRESSURE. I. ALL CIRCUIT SOLVERS SHALL BE STANDARD TAPERED FEMALE PIPE THREAD, NPT.
    - ALL CIRCUIT SOLVERS SHALL BE RATED TO 300F (149.9C) MAXIMUM WORKING TEMPERATURE.
    - CIRCUIT SOLVER SHALL BE ANSI/AWWA C800 COMPLIANT.
    - ALL CIRCUIT SOLVERS SHALL BE NSF-61 COMPLIANT WITH ZERO LEAD CONTENT FOR USE IN ALL DOMESTIC WATER SYSTEMS.
    - THERMAL ACTUATOR SHALL BE SPRING OPERATED AND SELF CLEANING, DELIVERING CLOSING THRUST SUFFICIENT TO KEEP ORIFICE OPENING FREE OF SCALE DEPOSITS. I. THERMAL ACTUATOR SHALL BE RATED FOR A MINIMUM OF 200,000 CYCLES.
  - INSTALLATION OF CIRCUIT SOLVER SHALL BE MADE BY QUALIFIED TRADESMEN. INSTALL CIRCUIT SOLVER IN EACH DOMESTIC HOT WATER RETURN PIPING BRANCH BEYOND LAST HOT WATER DEVICE IN THAT BRANCH. A. PROVIDE SUITABLE LINE SIZE ISOLATION VALVES, UNIONS, AND STRAINER AS INDICATED IN PIPING DETAIL SHOWN ON THE DRAWINGS.
    - PROVIDE SUITABLE ACCESS PANEL AS REQUIRED IN NON-ACCESSIBLE CEILINGS AND WALLS.

Bakery-Cafe:

0620

SYSTEM: NEXT GEN

Project Team:

**CASE**  
Engineering Inc.

796 Menus Court  
St. Louis, MO 63026  
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CERTIFICATE OF AUTHORITY NO. 001498

Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION  
**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

PLUMBING DETAILS

Project Number:

Sheet Number:

2406

Drawn By:

JSP

Issue Date:

07/05/2022

DPM:

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DM:



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JP

P302

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PLUMBING FIXTURE CONNECTION SCHEDULE												
ITEM	DESCRIPTION	WASTE	VENT	CW	FCW	HW	GAS	FURN BY	INST. BY	SPECIFICATIONS & REMARKS		
	FRONT OF HOUSE WATER CLOSET FLOOR SET-FLUSH VALVE ADA	4"	2"	1-1/2"	--	--	--	P.C.	P.C.	AMERICAN STANDARD 3043.001 WHITE-OPEN FRONT SEAT. NO COVER W/SLOAN ROAL #111-1.28GPF FLUSH VALVE PER ADA		
	FRONT OF HOUSE LAVATORY-WALL HUNG ADA	1-1/2"	1-1/2"	1/2"	--	1/2"	--	P.C.	P.C.	KOHLER #K-2084-R, SOHO, 20"x18" WALL HUNG LAVATORY WITH SINGLE HOLE FAUCET CENTER. DRILLED FOR CONCEALED ARM CARRIER, CARRIER; ZURN #Z-1231. SUPPLIES; BRASS CRAFT #SCR-1912-A. TRAP; SPEEDWAY #CR-1915-A. FAUCET; TOTO MODEL TEL105-D10EM. INSULATE ALL PIPING BELOW SINK WITH PLUMBEREX TRAP-GEAR, MOUNTED AT ADA HEIGHT. INSTALL SHUT-OFF VALVES SO THE HANDLES ARE FACING IN TOWARDS THE CENTER OF THE SINK TO MAKE ROOM FOR SOAP DISPENSER CANISTER.		
FD-1	FLOOR DRAIN	4"	2"	--	--	--	--	P.C.	P.C.	WADE #1103STD6 (OR EQUAL), CAST IRON BODY w/FLANGE, INTEGRAL CLAMPING COLLAR, SEEPAGE OPENINGS, AND ADJUSTABLE 6"x6" SQUARE NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS. AND ADJUSTABLE 6"x6" SQUARE NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS. PROVIDE PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER, EQUAL TO SURE SEAL, ON ALL FLOOR DRAINS.		
FD-2	FLOOR DRAIN w/FUNNEL	4"	2"	--	--	--	--	P.C.	P.C.	WADE #1103G6-EF4 (OR EQUAL), CAST IRON BODY w/FLANGE, INTEGRAL CLAMPING COLLAR, SEEPAGE OPENINGS,ADJUSTABLE 6"x6" SQUARE NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS AND 4"- FUNNEL. PROVIDE PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER, EQUAL TO SURE SEAL, ON ALL FLOOR DRAINS.		
FS-1	FLOOR SINK	4"	2"	--	--	--	--	P.C.	P.C.	WATTS #FS-740, 12"x12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, WHITE PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, ALUMINUM DOME BOTTOM STRAINER,NO HUB (STANDARD) OUTLET.		
GWH-1 (2)	(2) GAS FIRED TANKLESS WATER HEATERS	--	(2) 3"	1-1/2"	--	1-1/2"	1"	P.C.	P.C.	(2) RU1991 TANKLESS WATER HEATERS, 199 BTUH INPUT, SEALED COMBUSTION DIRECT VENT, 4 GPM @ 90 °F RISE, 96% EFFICIENCY.		
FCO	FLOOR CLEANOUT	REFER TO DWGS	--	--	--	--	--	P.C.	P.C.	ZURN #ZN1400 TUF-TOP ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, WITH GAS & WATERTIGHT ABS TAPERED THREAD PLUG, AND SCORIATED NICKEL BRONZE COVER AND PLATE.		
GCO	CLEANOUT TO GRADE	REFER TO DWGS	--	--	--	--	--	P.C.	P.C.	ZURN #Z1406-HD-VP, EXTERIOR CLEANOUT, HEAVY DUTY WITH VANDAL PROOF SCREWED TOP.		
FWH-1	WALL HYDRANT FREEZE PROOF	--	--	3/4"	--	--	--	P.C.	P.C.	WOODFORD #67 "ANTI-SIPHON" AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION.FURNISH COMPLETE WITH INTEGRAL BACKFLOW PREVENTER, LOOSE KEY, NON-TURNING OPERATING ROD WITH COMPRESSION CLOSURE VALVE. BRONZE SEAT AND SEAT WASHER, 3/4" INLET & HOSE CONNECTION.		

CROSS CONNECTION CONTROL SCHEDULE			
FIXTURE	MAKE	MODEL	ASSE, ASME OR ANSI STANDARD
MOP SINK (FAUCET CONTAINS INTEGRAL BACKFLOW DEVICE)	INTEGRAL	-	ASME A112.18.1 ANSI/NSF 61/9
DISHWASHER	WATTS	LF008PCQT	ASSE 1056
ICE MAKER (ABOVE SODA)	AIR GAP	INTERNAL	ASME A112.1.2
ICE MACHINE	AIR GAP	INTERNAL	ASME A112.1.2
CARBONATOR	WATTS	9D	ASSE 1022
COFFEE BREWER	WATTS	SD-3	ASSE 1022
TEA BREWER	WATTS	SD-3	ASSE 1022
SOUP RETHERMALIZER	AIR GAP	-	ASME A112.1.2
ESPRESSO	WATTS	SD-3	ASSE 1022
BOTTLE SOFTENER	WATTS	LF009QT	ASSE 1013
WATER FILTER SYSTEM	WATTS	LF009QT	ASSE 1013
RACK OVEN	WATTS	LF007QT	ASSE 1015
DECK OVEN	WATTS	LF007QT	ASSE 1015
PROOFER	WATTS	LF007QT	ASSE 1015
CHEMICAL DISPENSER	WATTS	LF009 W/ AIR GAP FITTING LF909AGA	-
FREEZEPROOF HOSEBIBB	WATTS	-	ASSE 1011
3-COMPARTMENT SINK	AIR GAP	-	ASME A112.1.2
VEGETABLE PREP SINK	AIR GAP	-	ASME A112.1.2
HAND SINKS	AIR GAP	-	ASME A112.1.2
DROP-IN SINKS	AIR GAP	-	ASME A112.1.2
LAVATORIES	AIR GAP	-	ASME A112.1.2
WATER CLOSETS (FLUSH VALVE)	INTEGRAL	-	ASSE 1001
URINAL (FLUSH VALVE)	INTEGRAL	-	ASSE 1001
WATER HEATER	WATTS	LFN360	ANSI Z21.22

PROVIDE APPROPRIATE BACK FLOW PREVENTER AT OTHER EQUIPMENT AS REQUIRED BY CODE.

TABLE TO CALCULATE HOT WATER GPH			
PLUMBING FIXTURE	WATER GALLONS PER HOUR	NO. OF FIXTURES	TOTAL HOT WATER GPM
3-COMP SINK	45	1	45
2-COMP SINK	20	1	20
DISWASHER	35	1	35
MOP SINK / LAUNDRY TUB	10	1	10
SINKS / LAVATORIES	5	6	30
TOTAL HOT WATER GALLONS PER HOUR FOR ALL FIXTURES:			140 GPH
100	GALLONS USABLE STORAGE (75% TOTAL STORAGE)		- 75 GALLONS
TOTAL HOT WATER GALLONS PER HOUR NEEDED FOR RECOVERY:			65.0 GPH
TEMPERATURE RISE (°F)			100 °F
GPH RECOVERY x 8.33 x TEMP. RISE	THERMAL EFFICIENCY	X (DEMAND FACTOR %)	TOTAL BTU NEEDED FOR RECOVERY
56,401 BTU	0.75		42,301 BTU
BTU -> KW CONVERSION		3,413 BTU / KW	12.4 KW

KITCHEN EQUIPMENT CONNECTION SCHEDULE												
ITEM	DESCRIPTION	IW	WASTE	VENT	CW	FCW	HW	GAS	FURN BY	INSTALL BY	SPECIFICATIONS & REMARKS	
1A	MOP SINK	--	3"	1-1/2"	1/2"	--	1/2" (110°)	--	G.C.	G.C.	FLORESTONE #MSR-2424. HOSE #MR370, 5 FT LONG w/o CLAMP. DOME STRAINER #MR376. FAUCET #MR-371. MOP HANGER #MR-372. WEDGE-LOK SEAL FOR 3" DRAIN #MR374.	
2A	3-COMPARTMENT SINK (REDUCED SIZE)	2"	--	--	--	--	--	--	E.S.	G.C.	EAGLE: CUSTOM WASTE VALVE; FISHER #22446 WASTE THRU GREASE TRAP	
	#15 PRE-RINSE SPRAY UNIT AT 3-COMPARTMENT SINK	--	--	--	--	1/2"	1/2" (140°)	--	E.S.	G.C.	FISHER #2210-WB w/ADD-ON SPOUT	
	#16 ROTARY WASTE VALVE AT 3-COMPARTMENT SINK	2"	--	--	--	--	--	--	E.S.	G.C.	FISHER #22446	
	#19B FAUCET AT 3-COMPARTMENT SINK	--	--	--	--	1/2"	1/2"	--	E.S.	G.C.	FISHER #13269	
3B	1-COMPARTMENT SINK (REDUCED SIZE)	2"	--	--	--	--	--	--	E.S.	G.C.	EAGLE GROUP #314-17.5-1-18L WASTE VALVE; FISHER #22446 WASTE THRU GREASE TRAP	
	#16 ROTARY WASTE VALVE AT 2-COMPARTMENT SINK	2"	--	--	--	--	--	--	E.S.	G.C.	FISHER #22446	
	#19B FAUCET AT 2-COMPARTMENT SINK	--	--	--	--	1/2"	1/2"	--	E.S.	G.C.	FISHER #13269	
4C	HAND SINK (WALL MOUNTED S.S.)	--	2"	1-1/2"	1/2"	--	1/2" (110°)	--	E.S.	G.C.	EAGLE #HSA-10-F-LRS	
23B	ICE MACHINE w/REMOTE CONDENSER	3/8" & 3/4"	--	--	--	1/2" DFCW	--	--	E.S.	G.C.	HOSHIZAKI #KMD-901MRH w/URC-12F	
23F	ICE MACHINE (AIR COOLED)	3/8" & 3/4"	--	--	--	1/2" DFCW	--	--	OWNER	G.C.	HOSHIZAKI #KM-515MAH	
23H	ICE MACHINE (AIR COOLED)	3/8" & 3/4"	--	--	--	1/2" DFCW	--	--	OWNER	G.C.	HOSHIZAKI #KM-660MRJ	
25B	4-POD COLD WATER FILTER	--	--	--	3/4"	--	--	--	E.S.	G.C.	ELGE #SLB4PL, 4-POD, WALL MOUNTED	
25D	WATER SOFTENER	--	--	--	3/4"	--	--	--	E.S.	G.C.	HOSHIZAKI #KMD-901MRH w/URC-12F	
27A	DISHWASHER (UPRIGHT)	1-1/2"	--	--	--	--	(140°)	--	ECOLAB	G.C.	JACKSON #ES-2000	
42A	BAG-N-BOX	--	--	--	--	--	--	--	PEPSI	PEPSI	MBS #AR-10-2W-GLIDE	
42A-B	DOUBLE WIDE 6 RACK PROOFER	1/2"	--	--	--	1/2"	--	--	BAXTER	BAXTER G.C.	BAXTER RPW2E-40.5	
6ER	HOT BEV TABLE W/URN TROUGH	1/2"	--	--	--	1/2"	--	--	EAGLE	EAGLE G.C.	EAGLE YPBT3072-0019-00	
68A	#19D POT FILLER FAUCET AT HOT BEV TABLE	--	--	--	--	1/2"	1/2"	--	KROWNE	G.C.	KROWNE #16-252L	
68A	SINGLE RACK OVEN/GAS (BETA)	3/4"	--	--	--	1/2"	--	1 1/2"	BAXTER	BAXTER G.C.	BAXTER #OV500G1	
54	SODA/ICE DISPENSER (DINING ROOM)	3/4"	--	--	--	1/2" DFCW FROM #42C	--	--	PEPSI	PEPSI	CORNELIUS #1DC255 #621057438	
44D	SODA/ICE DISPENSER (DRIVE THRU)	3/4"	--	--	--	1/2" DFCW FROM #42C	--	--	PEPSI	PEPSI	CORNELIUS #1DC255 621053801	
65A	TEA BREWER	--	--	--	--	1/2"	--	--	E.S.	G.C.	WILBUR CURTIS #TCTS10631	
65F	TWIN COFFEE BREWER	--	--	--	--	1/2"	--	--	E.S.	G.C.	WILBUR CURTIS #G4TP1T19A3131	
61	ESPRESSO MACHINE (AUTO)	3/8"	--	--	--	1/2"	--	--	OWNER	OWNER	FRANKE EVOLUTION 2-STEP	
68A	SOUP RETHERMALIZER	1-1/2"	--	--	--	1/2"	--	--	E.S.	G.C.	SSP (FAUSSEETT INTERNATIONAL) #RTB-14-SL	
68G	ESPRESSO BAR LH	1-1/2"	--	--	1/2"	--	1/2"	--	E.S.	E.S.	EAGLE; YPB-OB3072-0010-00	
	# 19A FAUCET AT ESPRESSO BAR	--	--	--	1/2"	--	1/2" (110°)	--	E.S.	G.C.	ZURN #Z812B1-15F	
NOTE: 2-COMPARTMENT SINK FAUCET (19B), COFFEE SINK FAUCET (18), ESPRESSO BAR FAUCET (19A), HAND SINK (21C), AND LAVATORIES SHALL BE SERVED BY POWERS HYDROGUARD SERIES LF6480 THERMOSTATIC TEMPERING VALVE, SET TO 110 °F.												

PLUMBING LEGEND	
	SANITARY PIPING
	VENT PIPING
	CONDENSATE PIPING
	NATURAL GAS PIPING
	COLD WATER PIPING
	SOFTENED COLD WATER PIPING
	DRINK FILTERED COLD WATER PIPING
	FILTERED COLD WATER PIPING
	110 DEG HOT WATER PIPING
	140 DEG HOT WATER PIPING
	HOT WATER RETURN PIPING
	UNDER SLAB WATER PIPING
	FLOOR CLEANOUT
	ABOVE FINISHED FLOOR
	FINISHED FLOOR ELEVATION
	INVERT ELEVATION
	PLUMBING CONTRACTOR
	MECHANICAL CONTRACTOR
	GENERAL CONTRACTOR
	LANDLORD
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	UNION
	SHUTOFF GATE VALVE
	CHECK VALVE
	3-WAY MIXING VALVE
	PUMP
	PIPING ELBOW DOWN
	PIPING ELBOW UP
	PIPING TEE DOWN
	PIPING TEE UP
	VENT THRU ROOF (VTR)
	PRESSURE GAUGE
	THERMOMETER w/RANGE
	SAFETY OR RELIEF VALVE
	CONNECT TO EXISTING

MAXIMUM SPACING FOR GAS PIPE SUPPORTS		
STEEL PIPE (HORIZONTAL)	SPACING IN FEET	MIN. ROD SIZE - INCHES
1/2	53/8	
3/4 TO 1-1/4	8	3/8
1-1/2 TO 3	10	1/2
(VERTICAL)		
3-1/2 TO 5	EVERY FLOOR	

Bakery-Cafe:

0620

SYSTEM: NEXT GEN

Project Team:

CASE Engineering Inc.

796 Menus Court  
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CERTIFICATE OF AUTHORITY NO. 001-98

Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION  
Bakery Cafe#2406  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



Consultant Copyright Placeholder

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

PLUMBING SCHEDULES

Project Number:

Sheet Number:

2406

Drawn By:

JSP

Issue Date:

07/05/2022

DPM:

DC

DM:

CH

CPM:

JP

P303



PLUMBING SPECIFICATIONS

1. GENERAL  
THE "ARCHITECTURAL GENERAL CONDITIONS" GOVERN WORK UNDER THIS SECTION.  
BEFORE SUBMITTING A PROPOSAL, THIS CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS. IT IS EXPRESSLY UNDERSTOOD THAT THIS PROPOSAL IS BASED ON THE ABOVE REQUIREMENTS AND THAT IT COVERS EVERYTHING NECESSARY TO DO AND COMPLETE THE WORK.

2. INSPECTION AND COOPERATION  
NO DEVIATION FROM THE DRAWINGS AND /OR SPECIFICATIONS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF ARCHITECT OR ENGINEER. THIS CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTORS TO ALLOW FOR THE INSTALLATION OF THEIR WORK AS WELL AS HIS OWN.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK FITTING IN PLACE WITHOUT CONFLICT WITH THE OTHER TRADES, WHERE PROPER PLANNING COULD AVOID INTERFERENCE.

3. CODES AND PERMITS  
NOTHING IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE INTERPRETED TO CONFLICT WITH ANY CITY OR PROVINCIAL LAW, REGULATION, CODE, ORDINANCE, RULING, OR FIRE UNDERWRITERS REQUIREMENT APPLICABLE TO THIS CLASS OF WORK.

SHOULD THE DRAWINGS AND/OR SPECIFICATIONS CONFLICT WITH SUCH LAWS OR ORDINANCES, THE CONFLICTING PORTION OF THE WORK SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH SUCH LAWS AND ORDINANCES WITHOUT EXTRA COST.

THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR THIS INSTALLATION OF HIS WORK.

4. ACCURACY OF DATA  
THE INFORMATION GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED, BUT ITS EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL EXAMINE THE LOCATIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS AND EXISTING PIPE SIZES BEFORE STARTING THE WORK.

THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, RAISED AND DROPS IN PIPING AND DUCTWORK AS REQUIRED BY BUILDING CONDITIONS AT NO ADDITIONAL COST.

MECHANICAL DRAWINGS SHALL NOT BE USED FOR GENERAL CONSTRUCTION DIMENSIONS OR FOR TYPE OF MATERIAL USED. FOR EXACT BUILDING LAYOUT, DIMENSIONS AND BUILDING MATERIAL USED, THIS CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS.

5. SHOP DRAWINGS  
FIVE (5) COPIES OF ALL SHOP OR INSTALLATION DRAWINGS, FOUNDATION PLANS, EQUIPMENT OR APPARATUS DRAWINGS SHALL BE FURNISHED BY THIS CONTRACTOR. THESE DRAWINGS SHALL BE CLEARLY MARKED INDICATING WHICH ITEMS ARE TO BE SUPPLIED AND SHALL STATE CAPACITIES, SIZES AND GENERAL DESCRIPTION OF ALL EQUIPMENT. ANY CHANGES FROM THE SPECIFIED ITEMS SHALL BE NOTED ON THE SUBMITTALS.

SHOP DRAWINGS OF SPECIAL APPARATUS OR EQUIPMENT WHICH IS TO BE FABRICATED INDIVIDUALLY FOR THIS PROJECT AND IS NOT DESCRIBED BY STANDARD MANUFACTURER'S DRAWINGS OR BULLETINS SHALL BE SUBMITTED FOR PROCESSING BEFORE FABRICATION.

THESE DRAWINGS SHALL BE SUBMITTED IN A TIMELY MANNER.

IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO MAINTAIN LIAISON WITH ALL PARTIES CONCERNED WITH THE MATERIAL SUBMITTED. THIS CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT UNTIL SHOP DRAWINGS HAVE BEEN PROCESSED.

THIS CONTRACTOR SHALL SUBMIT NO DRAWINGS WITHOUT NOTATION OF EACH COPY INDICATING DATE OF CONTRACTORS REVIEW AND SIGNATURE OF CHECK FOR CONTRACTOR TOGETHER WITH CONTRACTOR'S NAME AND PROJECT IDENTIFICATION.

ARCHITECT'S PROCESSING WILL NOT CONSTITUTE A COMPLETE CHECK BUT WILL INDICATE ONLY THAT GENERAL METHOD OF CONSTRUCTION AND DETAILING IS SATISFACTORY.

ARCHITECT'S PROCESSING WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS SINCE THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR DIMENSIONS AND DESIGNS OF ADEQUATE CONNECTIONS, DETAILS AND SATISFACTORY CONSTRUCTION OF ALL WORK, AS WELL AS FURNISHING MATERIALS AND WORKMANSHIP REQUIRED BY DRAWINGS AND SPECIFICATIONS WHICH MAY NOT BE INDICATED ON THE SUBMITTALS WHEN APPROVED.

6. SUBSTITUTIONS OF EQUIPMENT OR MATERIAL

THE BRAND NAMES OF EQUIPMENT OR MATERIALS SPECIFIED HEREIN SHALL ESTABLISH QUALITY, CAPACITY, TYPE AND DIMENSIONS TO BE INCLUDED IN THE BASE BID.

APPROVAL OF SUBSTITUTED ITEMS WILL BE BASED ON ABILITY AND CAPACITY TO PERFORM FUNCTION SERVED, QUALITY AND AVAILABILITY OF PARTS AND SERVICE, QUALITY OF EQUIPMENT, DELIVERY SCHEDULE, ETC. THE ARCHITECT SHALL REVIEW ALL SUCH REQUESTS BUT RESERVES THE SOLE RIGHT OF JUDGEMENT TO APPROVE OR REJECT THE PROPOSED SUBSTITUTIONS.

ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL NOT CAUSE ADDITIONAL COST. ANY CHANGES OF PIPING, DUCTWORK, ELECTRICAL CONTROLS OR INSTALLATION REQUIRED BECAUSE OF THE SUBSTITUTION OR EQUIPMENT SHALL BE PAID FOR BY THIS CONTRACTOR PROPOSING THE SUBSTITUTION.

7. ERECTION OF APPARATUS

ALL WORK SHALL BE DONE UNDER THE PERSONAL SUPERVISION OF THIS CONTRACTOR WHO SHALL PROVIDE A COMPETENT FOREMAN TO LAY OUT ALL WORK. ALL WORK SHALL BE LAID OUT WITH DUE REGARD FOR THE SPACE REQUIREMENTS OF THE OTHER CONTRACTORS. THIS CONTRACTOR SHALL REPORT ANY CONFLICTS OR DIFFICULTIES IN REGARD TO THE INSTALLATION IMMEDIATELY.

WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, THIS CONTRACTOR SHALL MAKE COMPOSITE DRAWINGS SHOWING THE EXACT LOCATIONS OF PIPES, DUCT, CONDUIT AND EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD MEASUREMENTS AND AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES.

EQUIPMENT OF A TYPE TO REQUIRE REPLACEMENT, SERVICING, ADJUSTING OR MAINTENANCE SHALL BE LOCATED TO ALLOW EASY ACCESS AND SPACE FOR REMOVAL OF INTERNAL ASSEMBLIES, IF REQUIRED.

8. EXCAVATION AND BACKFILL

THIS CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED TO INSTALL PIPES AND EQUIPMENT SHOWN ON THE PLANS OR REQUIRED FOR PROPER OPERATION. EXCESS EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH EARTH AND THOROUGHLY TAMPED. UTILITIES SERVICES LINES SHALL BE INSPECTED AND APPROVED BY THE PROPER INSPECTION AUTHORITY BEFORE BACKFILLING.

THE BOTTOM OF TRENCHES SHALL BE TAMPED HARD AN GRADED TO SECURE THE REQUIRED FILL. ROCK, WHERE ENCOUNTERED SHALL BE EXCAVATED TO A DEPTH OF SIX INCHES (6") BELOW THE BOTTOM OF THE PIPE. AND BEFORE THE PIPE IS LAID, THE SPACE BETWEEN BOTTOM PIPE AND ROCK SURFACE SHALL BE FILLED WITH GRAVEL. IF TRENCHES ARE DEEPER THAN BOTTOM OF FLOORING OR CLOSER THAN THREE FEET (30") TO FOOTING THEY MUST BE FILLED WITH COHESIVE SOIL AND COMPACTED TO 95% OF MAXIMUM DENSITY. STANDARD PROCTOR, ASTM D- 698. ALL OTHER EXCAVATIONS UNDER FLOOR SLABS COMPACTED TO 95% STANDARD PROCTOR.

WHEN EXCESS DIRT HAS BEEN REMOVED, THE TRENCH SHALL BE BROUGHT TO THE REQUIRED LEVEL WITH SAND AND GRAVEL FIRMLY COMPACTED.

TRENCHES AND EXCAVATION SHALL BE BACKFILLED IN 6" LAYERS OF EARTH, FREE FROM CLODS, AND STONES THOROUGHLY TAMPED TO A DEPTH OF 12" ABOVE THE PIPE. AFTER THAT DEPTH HAS BEEN REACHED, BACKFILLING SHALL BE DONE IN 12" LAYERS, THOROUGHLY TAMPED.

9. EQUIPMENT SUPPORTS

ANY STRUCTURAL STEEL MEMBERS REQUIRED TO ADAPT THE EQUIPMENT AND PIPING AS FURNISHED BY THIS CONTRACTOR, TO THE BUILDING STEEL OR STRUCTURE, SHALL BE INCLUDED IN THE BID OF THE CONTRACTOR FURNISHING THE EQUIPMENT OR PIPING. HANGING OF ALL EQUIPMENT AND REQUIRED SUPPORTING STEEL, AND BRACING SHALL BE FURNISHED BY THE CONTRACTOR WHO SUPPLIES THE EQUIPMENT.

10. CUTTING AND PATCHING

THIS CONTRACTOR SHALL INCLUDE ALL CUTTING, PATCHING AND PAINTING OF PATCHED AREAS REQUIRED FOR AND RESULTING FROM THE INSTALLATION OF ALL OF THIS CONTRACTOR'S WORK, EXCEPT WHERE NOTED OTHERWISE.

ALL OPENINGS AROUND PIPE PENETRATIONS THROUGH SMOKE OR FIRE-RATED FLOORS, CEILINGS OR WALLS SHALL BE SEALED AIRTIGHT WITH MATERIAL HAVING A RATING EQUAL TO THE MATERIAL OF THE WALL, CEILING AND/OR FLOOR PENETRATED.

ALL PATCHING SHALL BE NEATLY FINISHED TO THE SATISFACTION OF THE ARCHITECT.

11. ACCESS PANELS

THIS CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY THE GENERAL CONTRACTOR, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, AND THE PROPER SERVICING OF EQUIPMENT AND LINES INSTALLED UNDER THE CONTRACT.

ALL PANELS SHALL BE MILCOR, STYLE "M" FOR MASONRY, "A" FOR ACOUSTICAL TILE AND "K" FOR PLASTER; EXCEPT FOR FIRE-RATED UL 1-1/2 HOUR AND "B" LABEL ACCESS PANELS SHALL BE FURNISHED IN FIRE-RATED WALLS AND CEILINGS AS INDICATED ON THE DRAWINGS. ACCESS DOORS SHALL BE 12" X 12" MINIMUM SIZE FOR VALVES.

12. DIELECTRIC UNIONS

FOR THE PREVENTION OF ELECTROLYTIC CORROSION AT CONNECTIONS BETWEEN PIPE OF DISSIMILAR METALS OR BETWEEN PIPE AND EQUIPMENT CONNECTIONS OF DISSIMILAR METALS, PROVIDE DIELECTRIC UNIONS OR FLANGES.

13. MOTORS, STARTERS AND DISCONNECTS

UNLESS SPECIFIED TO BE FURNISHED WITH EQUIPMENT, ALL MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

14. JOINTS AND FITTINGS

THREADS ON SCREWED PIPE SHALL BE STANDARD, CLEAN BUTT AND TAPERED. PIPE SHALL BE REAMED OF BURRS AND KEPT CLEAN OF SCALE, DIRT AND SHAVINGS. TREADS SHALL BE MADE WITH FLAKED GRAPHITE AND LUBRICATING OIL OR APPROVED PIPE COMPOUND ON THE MALE THREAD ONLY.

COPPER-TO-STEEL AND COPPER-TO-BRASS JOINTS SHALL BE MADE WITH SILVER SOLDER. ALL OTHER COPPER-TO-COPPER JOINTS ABOVE GROUND SHALL BE MADE WITH LEAD FREE SOLDER. COPPER PIPE SHALL BE CUT SQUARE, BURRS REMOVED AND CARE SHALL BE GIVEN TO KEEP THE LINES FREE OF DIRT AND MOISTURE. ALL TUBING AND FITTINGS SHALL BE THOROUGHLY CLEANED.

WELDED PIPE SHALL HAVE BUTT WELDED SINGLE "V" TYPE JOINTS FOR WHICH PIPE HAS BEEN BEVELED TO 45 DEGREES. WELD SHALL BE ONE-FOURTH GREATER THICKNESS THAN THE PIPE. CONNECTIONS TO EQUIPMENT, ACCESSORIES, ETC. SHALL BE MADE BY MEANS OF FLANGES AND/OR ADAPTERS.

UNIONS SHALL BE PROVIDED AT EACH SCREWED VALVE AND UNIONS OR FLANGES AT EACH EQUIPMENT CONNECTION.

15. EXPANSION JOINTS

FURNISH AND INSTALL FLEXONICS EXPANSION JOINTS IN PIPING SYSTEM WHERE SHOWN OR NECESSARY FOR EXPANSION AND CONTRACTION.

EXPANSION JOINTS IN PIPE 4" AND GREATER SHALL BE THE PACKLESS TYPE WITH STAINLESS STEEL BELLOWS AND HAVE WELDED OR FLANGED END. JOINTS SHALL HAVE TRAVERSE AS INDICATED ON THE PLANS. EXPANSION JOINTS SHALL BE OF THE CONTROLLED FLEXING TYPE.

EXPANSION JOINTS IN COPPER PIPE UNDER 4" IN SIZE SHALL BE OF THE COMPENSATOR TYPE CONSTRUCTED OF TWO-PLY STAINLESS STEEL BELLOWS AND CARBON STEEL SHROUDS AND END FITTINGS, INTERNAL GUIDES AND ANTI-TORQUE DEVICES.

EXPANSION JOINTS IN STEEL PIPE UNDER 4" IN SIZE SHALL BE OF THE COMPENSATOR TYPE CONSTRUCTED OF TWO-PLY STAINLESS STEEL ELBOWS AND CARBON STEEL SHROUDS AND END FITTINGS, INTERNAL GUIDES AND ANTI-TORQUE DEVICES.

PROVIDE GUIDES ON EACH SIDE OF EXPANSION JOINT, AT 4 PIPE DIAMETERS, 14 PIPE DIAMETERS, AND A THIRD GUIDE AS RECOMMENDED BY THE MANUFACTURER.

16. PIPE FLEXIBLE CONNECTIONS

FLEXIBLE PIPE CONNECTIONS SHALL BE RESISTOFLEX #R6904 OR APPROVED EQUAL FLEXIBLE CONNECTIONS MADE FROM TEFLON.

PROVIDE FOR MOVEMENT IN PIPING BY USE OF SWING JOINTS AT CONNECTION OF ALL BRANCHES TO MAINS AND RISERS. ALL BRANCHES FROM MAINS AND RISERS SHALL HAVE 1/4" CLEARANCE BETWEEN PIPE INSULATION AND SLEEVE TO PERMIT PIPE MOVEMENT.

17. VALVES

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL VALVES OF ONE MANUFACTURER, FIGURE NUMBER AND TYPE THROUGHOUT THE ENTIRE INSTALLATION OF THE WORK, UNLESS OTHERWISE SPECIFIED. THE FOLLOWING NUMBERS ARE FROM THE CRANE CATALOG. EQUAL VALVES OF REPUTABLE MANUFACTURERS, SUCH AS HAMMOND, NIBCO-SCOTT AND/OR JENKINS WILL BE CONSIDERED EQUIVALENT.

ALL VALVES SHALL BE BUILT FOR A MINIMUM OF 125 PSIG WORKING PRESSURE. GATE VALVES 2-1/2" AND SMALLER SHALL BE #438 (SCREWED ENDS) OR #1320 (SOLDER-JOINT ENDS) WITH BRONZE BODY, BRONZE TRIM AND RISING STEM.

CHECK VALVES 2-1/2" AND SMALLER SHALL BE #36 (SCREWED ENDS) OR #1342 (SOLDER-JOINT ENDS) SWING-TYPE WITH BRONZE BODY AND BRONZE TRIM.

BUTTERFLY VALVES 2" AND LARGER SHALL BE #12F, IRON BODY, CAST-IRON WAFER W/LOCK LEVER.

BALL VALVE UP TO 3" IN SIZE SHALL BE APOLLO SERIES #70 BRONZE VALVE WITH CHROME-PLATED BALL AND TEFLON SEAT.

GAS LINE COCKS UP TO 4" SHALL BE #320.

HOSE END VALVES SHALL BE #438 GATE VALVES WITH HOSE END NIPPLES.

18. PIPE SLEEVES AND COLLARS

THIS CONTRACTOR SHALL LAY OUT ALL HIS WORK AND SET SLEEVES IN NEW CONSTRUCTION AS CONCRETE FORMS AND WALL ARE ERECTED SO AS TO BE ABLE TO INSTALL HIS WORK WITHOUT CUTTING OR BREAKING OF FLOORS OR WALLS. ALL SLEEVES FOR INSULATED PIPING SHALL BE LARGE ENOUGH TO ALLOW INSULATION TO PASS THROUGH SLEEVE.

ALL SLEEVES PASSING THROUGH FLOORS WHICH ARE WATERPROOFED SHALL BE COPPER TUBING SLEEVES EXTENDING 1" ABOVE FINISHED FLOOR. ALL OTHER SLEEVES SHALL BE 24 GAUGE GALVANIZED PIPES AND SLEEVES TO BE THOROUGHLY PACKED WITH OAKUM AND THE REMAINING SPACE FILLED WITH MASTIC AND MUST BE WATERTIGHT.

ALL SLEEVES PASSING THROUGH INNER WALLS SHALL BE STANDARD PIPE THIMBLES EQUAL TO THE THICKNESS OF THE WALL.

SPACES BETWEEN PIPES AND SLEEVES THROUGH OUTSIDE WALLS, ABOVE GRADE, SHALL BE CAULKED WITH CAULKING COMPOUND; THOSE BELOW GRADE SHALL BE MADE WATERTIGHT.

SPACE AROUND ALL PIPING THROUGH FIRE OR SMOKE RATED PARTITIONS OR FLOORS SHALL BE SEALED AIRTIGHT WITH MATERIAL AS SPECIFIED UNDER FIRESTOPPING.

ALL PIPE PENETRATIONS OF SLABS ON GRADE SHALL BE WRAPPED WITH #15 BUILDING FELTS OR FOAM WRAP.

19. HANGERS

A. PIPE HANGER AND SUPPORT PRODUCTS INSTALLATION  
a. VERTICAL PIPING: MSS TYPE 8 OR 42 CLAMPS.  
b. INDIVIDUAL, STRAIGHT, HORIZONTAL PIPING RUNS: 100 FEET AND LESS: MSS TYPE 1, ADJUSTABLE, STEEL CLEVIS HANGERS, LONGER THAN 100 FEET: MSS TYPE 43, ADJUSTABLE ROLLER HANGERS, LONGER THAN 100 FEET IF INDICATED: MSS TYPE 49, SPRING CUSHION ROLLS.  
c. MULTIPLE, STRAIGHT, HORIZONTAL PIPING RUNS 100 FEET OR LONGER:MSS TYPE 44, PIPE ROLLS. SUPPORT PIPE ROLLS ON TRAPEZE.  
d. BASE OF VERTICAL PIPING: MSS TYPE 52, SPRING HANGERS.

B. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR.  
C. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, TO A MINIMUM OF 3/8 INCH  
D. INSTALL HANGERS FOR COPPER TUBING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:  
a. NPS 3/4 AND SMALLER: 60 INCHES WITH 3/8-INCH ROD.  
b. NPS 1 AND NPS 1-1/4: 72 INCHES WITH 3/8-INCH ROD.  
c. NPS 1-1/2 AND NPS 2: 96 INCHES WITH 3/8-INCH ROD.  
d. NPS 2-1/2: 108 INCHES WITH 1/2-INCH ROD.  
e. NPS 3 TO NPS 5: 10 FEET WITH 1/2-INCH ROD.  
E. INSTALL SUPPORTS FOR VERTICAL COPPER TUBING EVERY 10 FEET.  
F. INSTALL HANGERS FOR STEEL PIPING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:  
a. NPS 1-1/4 AND SMALLER: 84 INCHES WITH 3/8-INCH ROD.  
b. NPS 1-1/2: 108 INCHES WITH 3/8-INCH ROD.  
c. NPS 2: 10 FEET WITH 3/8-INCH ROD.  
d. NPS 2-1/2: 11 FEET WITH 1/2-INCH ROD.  
e. NPS 3 AND NPS 3-1/2: 12 FEET WITH 1/2-INCH ROD.  
f. NPS 4 AND NPS 5: 12 FEET WITH 5/8-INCH ROD.  
G. INSTALL SUPPORTS FOR VERTICAL STEEL PIPING EVERY 15 FEET.  
H. SUPPORT PIPING AND TUBING NOT LISTED IN THIS ARTICLE ACCORDING TO MSS SP-69 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

20. DAMAGE BY LEAKS

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THE GROUNDS, WALKS, ROADS, ALL BUILDING COMPONENTS AND FINISHES, PIPING SYSTEMS, ELECTRICAL SYSTEMS AND THEIR EQUIPMENT AND CONTENT, CAUSED BY LEAKS IN THE PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED HEREIN. ALL REPAIRS WILL BE MADE AT THIS CONTRACTOR'S EXPENSE.

21. PIPE MARKERS

FURNISH AND INSTALL BRADY #B-350 THIN FILM OR APPROVED EQUAL PIPE MARKERS. MARKERS SHALL BE 1-1/8" HIGH FOR PIPES 3" AND UNDER AND 2-1/4" HIGH FOR PIPES OVER 3". MARKERS SHALL INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW.

PIPE MARKERS SHALL BE LOCATED:

- AT EQUIPMENT CONNECTIONS
- AT ACCESS DOORS
- AT BRANCH MAINS
- ON ALL ACCESSIBLE PIPE A MAXIMUM OF 75' BETWEEN MARKERS.

22. FLOOR, WALL AND CEILING PLATES

PIPES PASSING THROUGH FLOORS AND FINISHED CEILINGS, FITTED WITH CHROME-PLATED PLATES OR ESCUTCHEONS LARGE ENOUGH TO COMPLETELY CLOSE OPENING AROUND PIPE OR PIPE COVERING AND FLOOR SUPPORT IN THE CASE OF VERTICAL PIPING, SECURELY HELD IN PLACE; CAULK WATERTIGHT AROUND PIPE IN UNFINISHED ROOMS.

23. FIRE STOPPING

THE PENETRATIONS OF FIRE AND/OR SMOKE RATED WALLS OR FLOORS SHALL BE PROTECTED BY A UL APPROVED MATERIAL TO RETAIN THE INTEGRITY OF THE TIME-RATED CONSTRUCTION BY MAINTAINING AS EFFECTIVE BARRIER AGAINST THE SPREAD OF FLAME, SMOKE AND GASES. IT SHALL BE USED IN ALL DUCT GABE, CONDUIT AND PIPING PENETRATIONS THROUGH FLOOR SLABS AND TIME-RATED WALLS, AND/OR FLOORS. THE RATING OF THE FIRESTOPPING SHALL EQUAL THE RATING OF THE TIME-RATED ASSEMBLY.

FIRESTOPPING MATERIAL SHALL BE 3M FIRE BRARIAL SEALING SYSTEM OF APPROVED EQUAL. FIRESTOPPING MATERIAL SHALL CONSTITUTE ONE OR MORE OF THE FOLLOWING PRODUCTS:

- CAULK: CP-25
- PUTTY: #303
- WRAP/STRIP: FS195
- COMPOSITE SHEET: CS195
- PENETRATING SEALING SYSTEMS: 7900 SERIES

INSTALLATION OF FIRESTOPPING SHALL BE INSTALLED IN ACCORDANCE WITH AND IN STRICT CONFORMITY WITH MANUFACTURER'S PRINTED INSTRUCTIONS AS TO SURFACE PREPARATION, INSTALLATION AND QUALITY CONTROL. AREAS OF WORK SHALL REMAIN ACCESSIBLE UNTIL INSPECTION AND APPROVAL BY THE APPLICABLE CODE AUTHORITIES.

ON INSULATED PIPES, THE FIRE-RATING CLASSIFICATION SHALL NOT REQUIRE REMOVAL OF THE INSULATION.

QUALITY ASSURANCE:  
SUBMIT MANUFACTURER'S PRODUCT DATA, LETTER OF CERTIFICATION OR CERTIFIED LABORATORY TEST REPORT THAT THE MATERIAL OR COMBINATION OF MATERIALS MEET THE REQUIREMENTS SPECIFIED IN ASTM E814 AND ARE SO CLASSIFIED IN UL'S BUILDING MATERIALS DIRECTORY. MATERIALS SHALL MEET AND BE ACCEPTABLE FOR USE BY ALL MODEL BUILDING CODES. MATERIALS SHALL MEET THE REQUIREMENTS OF NFPM61- LIFE SAFETY CODE

SUBMITTALS:  
SUBMIT SHOP DRAWINGS, PRODUCT DATA, CERTIFICATES AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUBMIT MANUFACTURER'S PRODUCT DATA FOR ALL MATERIALS AND PREFABRICATED DEVICES, PROVIDING DESCRIPTIONS SUFFICIENT FOR IDENTIFICATION AT THE JOB SITE. INCLUDE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.

SUBMIT SHOP DRAWINGS SHOWING PROPOSED MATERIAL, REINFORCEMENT, ANCHORAGE, FASTENINGS, AND METHOD OF INSTALLATION. CONSTRUCTION DETAILS SHALL ACCURATELY REFLECT ACTUAL JOB CONDITIONS.

24. CLEANUP AND ADJUSTMENT

ALL PARTS WORK LEFT CLEAN; EQUIPMENT, FIXTURES, VALVES, PIPES AND FITTINGS CLEANED OF GREASE AND METAL CUTTINGS, ANY DISCOLORATION OR OTHER DAMAGE TO PORTIONS OF BUILDING, ITS FINISH OR FURNISHING DUE TO THIS CONTRACTORS FAILURE TO PROPERLY CLEAN INTERIOR OF PIPING, REPAIRED AT THIS CONTRACTORS EXPENSE. ALL AUTOMATIC CONTROL DEVICES ADJUSTED FOR PROPER OPERATION. ALL SURPLUS MATERIALS AND ANY RUBBISH REMOVED AS IT ACCUMULATES. ALL EQUIPMENT LEFT IN SAFE, PROPER OPERATING CONDITION.

DAMAGE TO ANY PORTIONS MUST BE REPAIRED OF THE PART REPLACED BY THIS CONTRACTOR AND ALL PARTS LEFT WITHOUT DENTS, SCRATCHES, THROUGH THE FINISH PAINT, LOOSE PLASTER, STAINS OR OTHER BLEMISHES.

25. PIPE TESTING AND START-UP

ALL PIPING TO BE TESTED IN ACCORDANCE WITH THE FOLLOWING:

- WATER - 100 PSI WATER PRESSURE
- ALL TESTING MUST HOLD FOR AT LEAST 24 HOURS WITHOUT LOSS OF PRESSURE OR VACUUM. ALL CONCEALED PIPING SHALL BE TESTED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE PRIOR TO COVERING. BEFORE STARTING ANY SYSTEM, ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE LUBRICATED BY THIS CONTRACTOR. TEST ENTIRE PLANT FOR HEATING, VENTILATING, AND AIR CONDITIONING UNDER FULL LOAD CONDITIONS FOR A PERIOD OF NOT LESS THAN ONE (1) WEEK DURING WHICH TIME THE ARRON BROTHERS OPERATING PERSONNEL SHALL BE FULLY INSTRUCTED IN THE OPERATION AND MAINTENANCE OF THE PLANT. AFTER THE PLANT IS IN FULL OPERATION, THIS CONTRACTOR IS TO FURNISH WHATEVER ADDITIONAL SERVICE IS REQUIRED TO RECALIBRATE AND RESET CONTROLS, VALVES, BALANCING COCKS, ETC. TO ENSURE PROPER OPERATION OF THIS SYSTEM.

26. TESTING AND BALANCING

THIS CONTRACTOR SHALL AT THE TIME OF INSTALLATION ENSURE THAT ALL DEVICES TO COMPLETE TESTING AND BALANCING AS DIRECTED HEREIN ARE FURNISHED AND INSTALLED DURING FABRICATION AND INSTALLATION OF WORK.

27. SEISMIC RESTRAINTS ON MECHANICAL EQUIPMENT

ALL PLUMBING EQUIPMENT SHALL BE PROVIDED WITH SEISMIC RESTRAINING SERVICES AS REQUIRED BY LOCAL BUILDING CODES. CONTRACTOR SHALL HAVE LOCAL BUILDING OFFICE REVIEW EACH PIECE OF EQUIPMENT WHEN INSTALLED, AND THE CONTRACTOR SHALL INSTALL ALL REQUIRED TIE DOWN, ANCHORS, STRAPS OR OTHER DEVICES REQUIRED.

28. GUARANTEE

THIS CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS, AND LABOR FURNISHED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL REPAIR OR REPLACE ANY EQUIPMENT OR MATERIAL WHICH IS DEFECTIVE OR IMPROPERLY INSTALLED. IN ADDITION, THIS CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDINGS AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIALS INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS.

29. TEMPORARY WATER

TEMPORARY WATER SERVICE TO THE BUILDING SHALL BE PROVIDED BY THIS CONTRACTOR TO THE BUILDING FOR CONSTRUCTION PURPOSES. THIS CONTRACTOR TO MAINTAIN WATER SERVICE AS REQUIRED DURING CONSTRUCTION.

30. DOMESTIC WATER SERVICE

PROVIDE PRESSURE REDUCING VALVE WITH STRAINER IN SERVICE LINE IF REQUIRED BY LOCAL CODES OR PRESSURE IS ABOVE 80 PSI.

JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE, AND LOCAL CODES AND SOLDERED AS LISTED BELOW. FLUX SHALL BE NON-CORROSIVE.

ABOVE GRADE - WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING SHALL BE CLEANED AS DESCRIBED ABOVE. UNDER NO CIRCUMSTANCES SHALL DISSIMILAR METALS COME INTO DIRECT CONTACT WITH COPPER TUBING; E.G., GALVANIZED STRAPPING, HANGERS, OR CLAMPS TO SECURE THE TUBING.

BELOW GRADE, OR FLOOR SLAB ON EARTH OR STONE FILL - HIGH TEMPERATURE, SOLDER, 1200 DEG. F OR GREATER MELTING POINT.

NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING (MALE AND FEMALE) SURFACES OF THE UNIONS.  
MATERIALS - UNDERGROUND: TYPE "K" COPPER TUBE, SOFT TEMPE MATERIALS - ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN.  
ALTERNATE MATERIALS - CPVC AND OR PEX PIPING IS AN ACCEPTABLE ALTERNATE IF NOT INSTALLED IN A PLENUM AND APPROVED BY LOCAL CODE OFFICIALS.  
VIEGA, PROPPRESS COPPER 1/4-INCH THROUGH 4-INCH WITH EPDM SEALING ELEMENT AND/OR VIEGA, PROPPRESS 304 OR 316 STAINLESS 1/4-INCH THROUGH 4-INCH WITH EPDM OR FKM SEALING ELEMENT IS ACCEPTABLE IF ALLOWED BY LOCAL CODE

31. STERILIZATION OF DOMESTIC WATER SYSTEM

THE ENTIRE DOMESTIC WATER DISTRIBUTION SYSTEM SHALL BE THOROUGHLY STERILIZED WITH A SOLUTION CONTAINING NOT LESS THAN 100 PARTS PER MILLION OF AVAILABLE CHLORINE. THE SOLUTION SHALL REMAIN IN THE SYSTEM FOR TWO (2) HOURS DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, THE SOLUTION SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUE CHLORINE CONTENT IS NOT GREATER THAN THE CHLORINE LEVEL OF THE AVAILABLE WATER SUPPLY.

THIS CONTRACTOR SHALL HAVE THE WATER TESTED AND APPROVED BY THE HEALTH DEPARTMENT.

32. SANITARY SEWERS

THIS CONTRACTOR SHALL CONNECT SANITARY SEWER AS INDICATED ON THE DRAWINGS. VERIFY DIRECTION OF FLOW PRIOR TO ANY ROUGH-IN WORK.

EACH PIPE SHALL BE LAID TO THE LINE AND GRADE INDICATED ON THE PLANS AND SUCH A MANNER AS TO FORM A CLOSE CONCENTRIC JOINT WITH THE ADJOINING PIPE AND TO PRESENT OFFSETS IN FLOW LINE. ALL PIPE SHALL BE LAID WITH THE BELLS UPHILL.

THE SUB-GRADES SHALL BE KEPT FREE FROM WATER WHILE PIPES ARE BEING LAID. ALL PIPE SHALL BE LAID WITH ENDS ABUTTING AND TRUE TO LINE AND GRADE. THEY SHALL BE FITTED AND MATCHED SO THAT THEY WILL FORM A SEWER WITH A SMOOTH AND UNIFORM INVERT.

EACH JOINT SHALL BE CLEANED AS IT IS LAID AND ALL BELLS SHALL BE CLEANED BEFORE PIPES ARE JOINED.

PVC SEWER PIPE MAY BE USED IN LIEU OF THAT SPECIFIED ABOVE IF ALLOWED BY LOCAL CODES.

33. WASTE, SOIL, DRAIN AND VENT PIPING

THE DRAINS, SOIL WASTE AND VENT PIPE AND FITTINGS INCLUDING EXTENSIONS TO SEWERS SHALL BE OF SAND SPUN SERVICE WEIGHT CAST IRON PIPE OF THE SIZES INDICATED ON THE DRAWINGS. PIPE AND FITTINGS TO BE COATED ON THE INSIDE AND OUTSIDE WITH COAL TAR PITCH, CYLINDRICAL AND FREE FROM CRACKS OR OTHER DEFECTS.

ALL TRENCHES TO BE DUG WITH GRADUAL FALL, THE PIPING TO BE STRAIGHT AND THOROUGHLY YARNED WITH OAKUM AND POURED WITH MOLTEN LEAD AND THOROUGHLY CAULKED WITH CAULKING IRONS.

THE ARRANGEMENT OF THE SYSTEM SHALL BE AS SHOWN ON THE DRAWINGS AND AS DIRECT AS POSSIBLE, AVOIDING ALL UNNECESSARY OFFSETS. THE STACKS SHALL BE FIRMLY SECURED IN POSITION WITH WROUGHT IRON CLAMPS AT EACH FLOOR.

ALL CHANGES IN DIRECTION OF SOIL OR WASTE PIPE SHALL BE MADE BY MEANS OF "Y" BRANCHES AND 1/8 BENDS. NINETY DEGREE SHORT TURN FITTINGS WILL NOT BE PERMITTED EXCEPT TO INDIVIDUAL FIXTURE CONNECTIONS OR WHERE THE FLOW IS FROM THE HORIZONTAL TO THE VERTICAL.

HANDHOLES WITH CAST IRON FERRULES AND HEAVY BRASS SCREWS FOR CLEANOUTS SHALL BE PLACED AT ENDS AND ALL CHANGES IN DIRECTION OF SOIL AND WASTE PIPE WHERE NOT OTHERWISE SHOWN OR WHERE REQUIRED AND BROUGHT UP TO THE FLOOR LINE WHERE PIPING IS CONCEALED BY MEANS OF "Y"S OR SUITABLE BENDS.

ALL TRAP SCREWS MUST BE OF FULL SIZE OF PIPE UP TO 4" AND 4" FOR ALL OVER THIS SIZE. CONNECTIONS BETWEEN OUTLETS OF FIXTURES AND SOIL OR WASTE PIPE SHALL BE MADE WITH "Y" BRANCHES TO "Y" BRANCHES WHEREVER POSSIBLE. ALL HORIZONTAL SOIL WASTE AND VENT PIPE SHALL BE GRADED TOWARD OUTLETS AND PIPE NOT BURIED SHALL BE INSTALLED ABOVE THE CEILING OR CLOSE AS POSSIBLE TO THE CONSTRUCTION ABOVE WHERE THERE IS NO CEILING.

THE STACKS SHALL BE EXTENDED THROUGH ROOF OF BUILDING TO POINTS NOT LESS THAN 12" ABOVE ROOF. EXTENSIONS THROUGH ROOF SHALL BE MADE WATER-TIGHT BY MEANS OF A LEAD FLASHING OF FOUR POINTS SHEET LEAD SPREAD OVER A DISTANCE OF NOT LESS THAN TWELVE (12") AROUND PIPE. THISE FLO BE SOLDERED TO BASE AND EXTENDED OVER AND TURNED DOWN INTO END OF PIPE IN AN APPROVED MANNER.

ALL CLEANOUTS IN FLOORS TO BE JOSAM #8360 OR AMERICAN FOUNDRY #427 ADJUSTABLE CLEANOUTS. CAST IRON BODY, CAST BRASS SCORRIATED COVER WITH LETTERS C.O. CAST IN TOP AND CONCEALED BRASS PLUG.

CLEANOUTS SHALL BE INSTALLED IN BASE OF EACH STACK. CONCEALED CLEANOUTS SHALL HAVE JOSAM #8600 OR AMERICAN FOUNDRY #71-F CAST BRASS CHROMIUM PLATED FLAT ACCESS COVER PLATES.

FERRULES SHALL BE EXTRA HEAVY RED BRASS, EXTRA LONG AND SMOOTH ON THE INSIDE. FOR WASTE, SOIL AND VENT CONNECTION THE LEAD SHALL EXTEND THROUGH THE FERRULES, BE TURNED BACK, WIPED WITH SOLDER AND CAULKED INTO THE HUB.

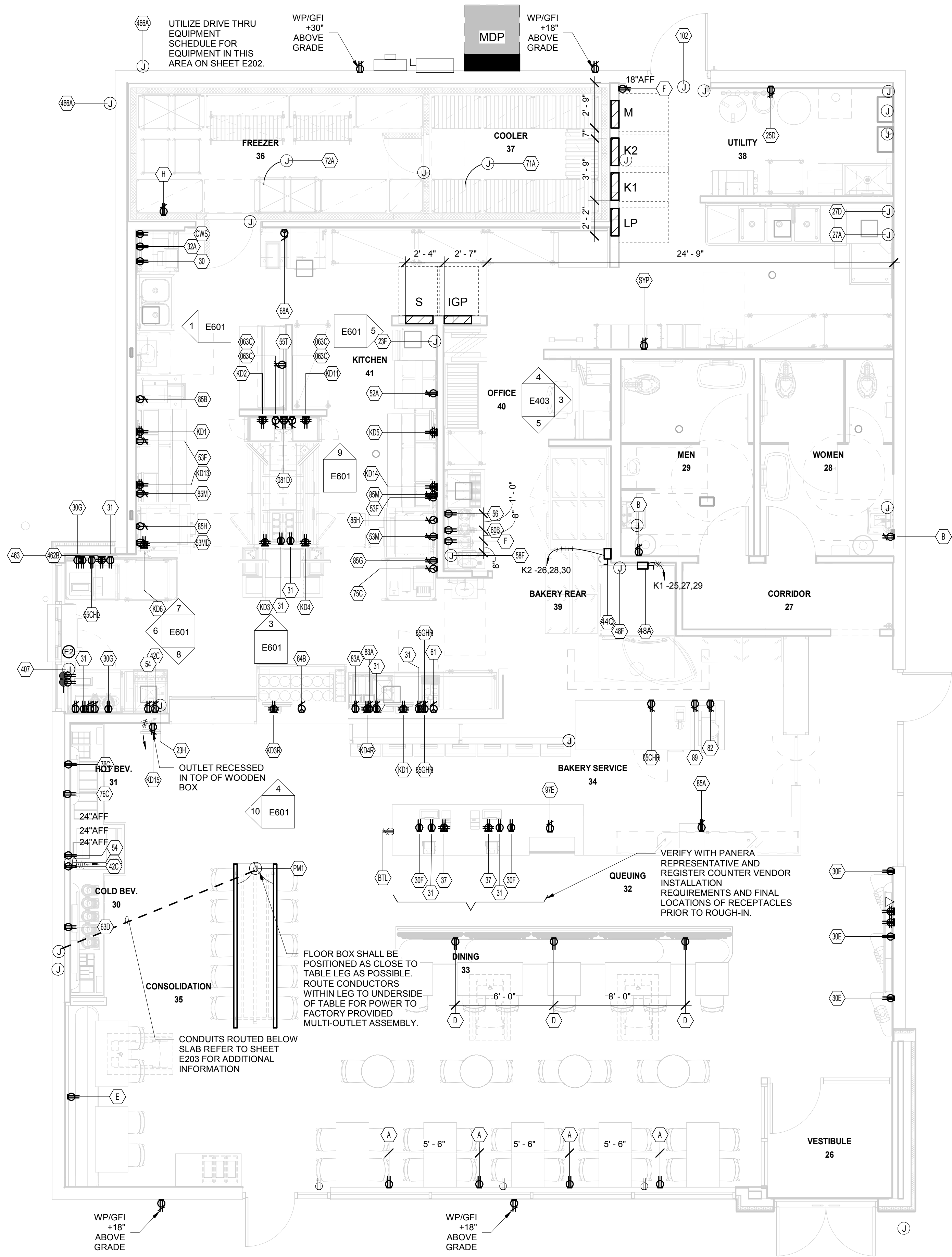
ALL JOINTS OF CAST IRON PIPE SHALL BE MADE WITH JUTE AND PURE SOFT LEAD BEDDED IN WITH HAMMER AND CAULKING IRON, USING FOR EACH JOINT TWELVE OUNCES OF LEAD TO EACH INCH OF DIAMETER OF PIPE ON WHICH THE JOINT IS MADE. ALL JOINTS SHALL BE FILLED AT ONE POURING. IF IT FAILS TO RUN FULL IT SHALL BE DUG OUT AND RE-POURED AND CAULKED WITH PROPER TOOLS. JOINTS BETWEEN LEAD AND CAST IRON SHALL BE MADE WITH BRASS FERRULES, WIPED TO THE LEAD PIPE AND CAULKED INTO THE HUB OF THE CAST IRON FITTINGS. AT THE CONTRACTOR'S OPTION HE MAY USE NO-HUB PIPE, FITTINGS, COUPLING AND GASKETS IN LIEU OF LEAD JOINTS IF APPROVED BY THE LOCAL CODES AND ORDINANCES.

AT THE CONTRACTOR'S OPTION, DWV COPPER PIPING AND FITTINGS MAY BE USED IF APPROVED BY LOCAL CODES AND ORDINANCES.

IF APPROVED BY THE LOCAL CODES, SCHEDULE 40 PVC PIPE WITH DWV FITTINGS MAY BE USED FOR THE WASTE AND VENT SYSTEM. PVC PIPE AND FITTINGS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL CODES. ENCASEMENT OF PVC PIPES WITHIN RATED SHAFTS SHALL BE THE COST OF THIS CONTRACTOR.

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2 ELECTRICAL ROUGH-IN PLAN  
1/4" = 1'-0"

SCHEDULE: ROUGH-IN SYMBOLS	
	DUPLEX RECEPTACLE
	G.F.I. DUPLEX RECEPTACLE
	ISOLATED GROUND DUPLEX RECEPTACLE (HUBBELL IG5392CN ORANGE OR EQUAL)
	JUNCTION BOX
	DISCONNECT SWITCH
	HEAVY DUTY RECEPTACLE - VERIFY NEMA CONFIGURATION
	ROUGH-IN FOR TELEPHONE VOICE LINE UNLESS NOTED OTHERWISE
	ROUGH-IN FOR TELEPHONE DATA LINE OR DATACOM UNLESS NOTED OTHERWISE

SEE SHEET E202 FOR ROUGH-IN EQUIPMENT SCHEDULE

ALL EQUIPMENT MUST BE LISTED AND LABELED FOR ITS USE. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE ON-SITE AT TIME OF INSPECTION. TYPICAL PER NEC SECTION 110.3 & 2012 ICC CODES.

SEE SHEET E403 FOR ROUGH-IN REQUIREMENTS AT OFFICE.

SEE SHEET E601 FOR DRIVE THRU KITCHEN EQUIPMENT DIMENSIONS.

Bakery-Cafe:

0620

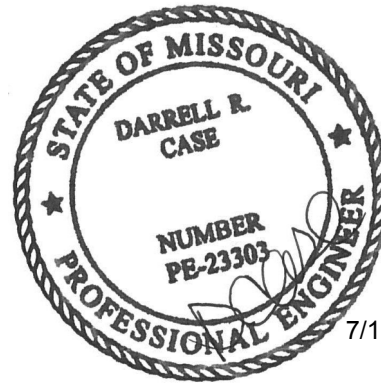
SYSTEM: NEXT GEN

Project Team:

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Engineering Inc.

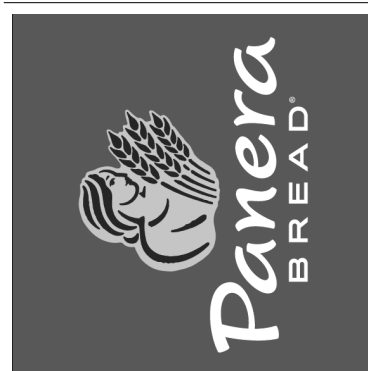
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Project Title:

PROTOTYPE - NEW CONSTRUCTION  
**Bakery Cafe #2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

ELECTRICAL  
ROUGH-IN PLAN

Project Number:

Sheet Number:

2406

Drawn By:

MBN

Issue Date:

07/05/2022

DPM:

DC:

DM:

CH

CPM:

JP

E201



ELECTRICAL ROUGH-IN MASTER SCHEDULE (KITCHEN EQUIPMENT)						
MARK	ITEM NAME	V	PH	A	ROUGH-IN	DEV.
KD19	KDS ORDER READY MONITOR	120	1	4	@ 70" AFF VERIFY	
CW9	ROPE MONITOR	120	1	4	@ 46" AFF VERIFY	
0238N	ICE MACHINE	208**	1	10.0	96"	
0238W	ICE MACHINE - REMOTE CONDENSER	W	W	W	ON ROOF	
0239	ICE MACHINE	120	1	11.7	@ 72" AFF	
0239	WATER SOFTNER	120	1	4.3	@ 24" AFF	
027A	DISHWASHER	120	1	12	@ 66" AFF	
0272H	EXHAUST HOOD	120	1	H	VERIFY	
030	CASH REGISTER	120	1	5	IN CASEWORK VIF/ @ 46" AFF @ WALL	
0305	KIOSK TABLET, TABLE TRACKER CHARGER	120	1	1.5	IN CASEWORK @ 24" AFF - VERIFY	
0309	CASH REGISTER	120	1	5	IN CASEWORK VIF/ @ 46" AFF @ WALL	
031	PRINTER	120	1	2	IN CASEWORK VIF/ @ 46" AFF @ WALL	
032A	FAX MACHINE	120	1	2.16	@ 46" AFF	
035	MGR PC & PRINTER	120	1	5	SEE MGR OFFICE DETAIL	
035A	E-LEARNING PC (FUTURE)	120	1	5	SEE MGR OFFICE DETAIL	
037	CREDIT CARD READER	120	1	1	IN CASEWORK VIF/ @ 46" AFF @ WALL	
042CX	CARBONATOR	120	1	10.0	* FLOOR	
044C	PROOFER	208	3	36	@ 96" AFF	
048A	RACK OVEN	208	3	4.4	@ 96" AFF	
0489	OVEN CONTROLS	120	1	7.4	@ 96" AFF	
052A	BREAD SLICER	120	1	7	@ 24" AFF	
053A	CATERING PREP COOLER	120	1	9	@ 24" AFF	
054X	SODA/ICE DISPENSER	120	1	9.3		
056	TEA BREWER	120	1	14.2	@ 24" AFF	
0589Y	COFFEE MAKER	120/220	3	20	@ 46" AFF	
0603	COFFEE GRINDER	120	1	11	@ 46" AFF	
0633	MICROWAVE	120	1	13.0	IN CASEWORK VIF	
066A	SOUP RETHERMALIZER	208	3	25	@ 24" AFF	
071	COOLER COMPRESSOR	120/208	3	14.2	* ON ROOF	
071A	COOLER EVAPORATOR	120	1	M	@ COOLER CLG	
072	FREEZER COMPRESSOR	208	3	19.5	* ON ROOF	
072A	FREEZER EVAPORATOR	208	1	M	@ FREEZER CLG	
076C	SIMPLICITY BUBBLER	120	1	8.5	18" AFF	
082	BAGEL SLICER	120	1	6.8	@ 24" AFF	
088C	HEATED SHELF	120	1	5.3	IN CASEWORK VIF	
089	SCALE	120	1	1	@ 46" AFF	
091C	REFRIG. SELF-SERVE COOLER CASE	120	1	14.58	IN CASEWORK VIF	
102	AIR CURTAIN - DELIVERY DOOR	120	1	5.1	VERIFY	
109	DIGITAL INTERNET RECEIVER/AMP (DMX)	120	1	2	SEE MGR OFFICE DETAIL	
128	CCTV MONITOR	120	1	1	SEE MGR OFFICE DETAIL	
136A	CCTV CONTROLLER	120	1	6	SEE MGR OFFICE DETAIL	
208	DOUGH SHEETER	120	1	5.8	@ 24" AFF	

H - ELECTRICAL POWER FOR HOOD SUPPLIED WITH DISHWASHER EXHAUST FAN - REFER TO E203, E502, AND MECHANICAL DRAWINGS.  
M - ELECTRICAL POWER SUPPLY FOR EVAPORATOR SUPPLIED FROM REMOTE CONDENSER. CONTRACTOR TO PROVIDE ALL REQ'D INTER-CONNECT WIRING.  
N - NEUTRAL REQUIRED FOR EQUIPMENT  
T - ELECTRICAL CONTRACTOR TO SUPPLY LOW VOLTAGE TRANS. AS REQUIRED  
W - ELECTRICAL SUPPLY FOR REMOTE CONDENSER SUPPLIED FROM ICE MAKER  
X - CARBONATOR PUMP & SODA DISPENSER SHARE SAME RECEPTACLE  
Y - CONTRACTOR VERIFY CONNECTION DEVICE WITH EQUIPMENT MANUFACTURER  
+ - VERIFY WIRE SIZE WITH MANUFACTURER  
++ - PROVIDE 30A BREAKER PER MANUFACTURER  
\* - VERIFY  
\*\* - F.O.H.

ELECTRICAL ROUGH-IN MASTER SCHEDULE (DRIVE-THRU EQUIP.)						
MARK	ITEM NAME	V	PH	A	ROUGH-IN	DEV.
KD1	KDS SANDWICH MONITOR	120	1	4	@ 80" AFF	
KD2	KDS SALAD STN MONITOR	120	1	4	@ 90" AFF	
KD3	KDS MAIN CONSOLIDATOR MONITOR	120	1	4	@ 68"/ 90" AFF VERIFY	
KD4	KDS TO GO CONSOLIDATOR MONITOR	120	1	4	@ 68"/ 90" AFF VERIFY	
KD5	KDS TO GO SANDWICH STN MONITOR	120	1	4	@ 80" AFF	
KD6	KDS DT MASTER CONSOLIDATOR MONITOR	120	1	4	@ 68" AFF	
KD11	KDS MAIN CONSOLIDATOR MONITOR	120	1	4	@ 90" AFF	
KD12	KDS DT ESPRESSO STN MONITOR	120	1	4	@ 68" AFF	
KD13	KDS PANINI MONITOR	120	1	4	@ 80" AFF	
KD14	KDS DT PANINI MONITOR	120	1	4	@ 80" AFF	
KD19	KDS MONITOR	120	1	4	SEE PLAN	
0238N	ICE MACHINE	120/208	1	10	@ 72" AFF	
0238W	ICE MACHINE - REMOTE CONDENSER	W	W	W	ON ROOF	
0309	CASH REGISTER	120	1	5	@ 46" AFF	
031	PRINTER	120	1	2	46"/68"/90" AFF VERIFY	SEE PLAN
042CX	CARBONATOR	120	1	3.5	@ 24" AFF	
053F	SANDWICH PREP 72"	120	1	9	@ 24" AFF	
053A	TOPPING STATION	120	1	5	@ 24" AFF	
054X	SODA/ICE DISPENSER	120	1	9.3	@ 24" AFF	
056C	UNDER-COUNTER REFRIGERATOR	120	1	3.9	@ 24" AFF	
056C-R	UNDER-COUNTER REFRIGERATOR	120	1	4.7	@ 24" AFF	
057	SALAD CRISPER	120	1	1.7	@ 24" AFF	SEE PLAN
061Z	ESPRESSO MACHINE	208	1	21.15	@ 24" AFF	
063CY	MICROWAVE	208	1	13.5	VERIFY	
064C	Z3 SOUP STATION	208	1	11	@ 24" AFF	
075C	Z4 CONVEYOR TOASTER	208	1	14.5	@ 24" AFF	
076C	SIMPLICITY BUBBLER	120	1	8.5	@ 46" AFF	
081C	DUAL-SIDED SALAD PREP	120	1	9	@ 15" AFF VERIFY	
083A	BLENDER	120	1	15	@ 24" AFF	
0859Z1	EGG STATION	208	1	12.6	@ 24" AFF	
085C	HEATED SHELF	120	1	0.8	@ 46" AFF	
0859Z2	DOUBLE BATCH OVEN	208	1	40	@ 24" AFF VERIFY	
089A	HOLDING UNIT	120	1	10	@ 46" AFF	
407	DRIVE THRU WINDOW	120	1	1	VERIFY	
4089	AIR CURTAIN- HEATED	208	1	30	VERIFY	
480	DRIVE-THRU TIMER	120	1	1	12" BELOW CEILING	
481	HME DIGITAL COMMUNICATION SYSTEM	120	1	3	@ 24" BELOW CEILING	
4829	TIMER FLAT SCREEN	120	1	3	VERIFY HEIGHT	
483	SECURITY FLAT SCREEN	120	1	1.5	@ 68" AFF	
486A	SECURITY CAMERA	120	1	*	ROUGH-IN BY BLDGS CONTRACTOR. INSTALLED BY VENDOR	

N - NEUTRAL REQUIRED FOR EQUIPMENT  
V - PROVIDE WITH PLASTIC COVER  
W - ELECTRICAL SUPPLY FOR REMOTE CONDENSER SUPPLIED FROM ICE MAKER  
X - CARBONATOR PUMP & SODA DISPENSER SHARE SAME RECEPTACLE  
Y - CONTRACTOR VERIFY CONNECTION DEVICE WITH EQUIPMENT MANUFACTURER  
Z - NEMA L6-30R RECEPTACLE (TWIST-LOCK)  
Z1 - NEMA L6-20R RECEPTACLE (TWIST-LOCK)  
Z2 - NEMA 6-50R RECEPTACLE  
Z3 - NEMA 6-20R RECEPTACLE  
Z4 - NEMA 6-30R RECEPTACLE  
\* - VERIFY POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER

ELECTRICAL ROUGH-IN MASTER SCHEDULE (OTHER EQUIPMENT)						
MARK	ITEM NAME	V	PH	A	ROUGH-IN DEV.	REMARKS
A	RECEPTACLES	120	1	20	@ 15" AFF	TAMPER RESISTANT DUPLEX RECEPTACLE W/ USB - HUBBELL CATALOG NO. USB15X2W - COLOR WHITE
B	RECEPTACLES	120	1	20	@ 42" AFF	GFI RECEPTACLES
D	RECEPTACLES	120	1	20	VERIFY, BASE OF BOOTH, HORIZONTALLY	ROUTE WIRE INSIDE BOOTH TO HALF-WALL. THEN RUN CONDUIT BELOW FLOOR TO NEAREST WALL EXTENDING TO CEILING. TAMPER RESISTANT DUPLEX RECEPTACLE W/ USB - HUBBELL CATALOG NO. USB15X2BK - COLOR BLACK
E	RECEPTACLES	120	1	20	VERIFY, @ SCREEN WALL, HORIZONTALLY	ROUTE CONDUIT BELOW FLOOR TO NEAREST WALL WHICH ENGAGES CEILING. TAMPER RESISTANT DUPLEX RECEPTACLE W/ USB - HUBBELL CATALOG NO. USB15X2BK -COLOR BLACK
F	RECEPTACLES	120	1	20	@ 48" AFF (UNO)	GFI RECEPTACLES
8TL	BAKERY TOWER LIGHTING	120	1	1.5	IN CASEWORK VIF	RECEPTACLE MOUNTED IN CASEWORK TO POWER PLUG-IN BAKERY TOWER LIGHTS. PROVIDE ROUGH-IN AND FINAL CONNECTION
089	CAFE BASE DELIVERY SYSTEM	120	1	1.5	@ 15" AFF	PROVIDE ROUGH-IN AND FINAL CONNECTION
CW9	ROPE MONITOR	120	1	4	@ 46" AFF	GFI RECEPTACLES
FP	FIREPLACE	120	1	4	VERIFY	PROVIDE ROUGH-IN AND FINAL CONNECTION
H	HEAT TAPE	120	1	4	VERIFY	FOR FREEZER CONDENSATE LINE OR WATER LINE. PROVIDE GROUND FAULT CIRCUIT BREAKER.
HT	HAND TOWEL	120	1	1	VERIFY	VERIFY HEIGHT WITH ADA REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
MB3	MOBILE BAGEL DISPLAY	120	1	1	VERIFY	PROVIDE RECEPTACLE. VERIFY EXACT ROUGH-IN LOCATION AND PLUG/RECEPTACLE REQUIREMENTS WITH MANUFACTURER AND PANERA REPRESENTATIVE.
PB	PAGE BUMP	120	1	2	@ 24" AFF	IG RECEPTACLE MOUNTED IN CASEWORK.
PM1	MULTI-OUTLET PLUGMOLD	120	1	15	VERIFY	PROVIDE ROUGH-IN AND FINAL CONNECTION TO FACTORY INSTALLED PLUGMOLD AT TABLE. ROUTE CONDUIT BELOW FLOOR TO NEAREST WALL WHICH ENGAGES CEILING. COORDINATE EXACT LOCATION WITH PANERA CM AND TABLE VENDOR PRIOR TO ROUGH-IN.
RP	RECIRCULATING PUMP	120	1	2.4	VERIFY	PROVIDE ROUGH-IN AND FINAL CONNECTION.
SY9	SYRUP PUMP	120	1	2.4	@ 24" AFF	PROVIDE ROUGH-IN AND FINAL CONNECTION
TDM	TABLE DELIVERY MONITOR	120	1	20	@ 24" AFF	VERIFY EXACT LOCATION AND HEIGHT OF RECEPTACLES LOCATED IN CASEWORK FOR TABLE SERVICE WITH PANERA CM PRIOR TO ROUGH-IN.
TSC	TABLE LOCATOR TRANSMITTER	120	1	20	@ 90" AFF	VERIFY EXACT LOCATION AND HEIGHT OF RECEPTACLES LOCATED IN CASEWORK FOR TABLE SERVICE WITH PANERA CM PRIOR TO ROUGH-IN.
TSA	TABLE SERVICE	120	1	20	ABOVE CEILING	VERIFY EXACT LOCATION FOR RECEPTACLE LOCATED ABOVE CEILING FOR TABLE SERVICE WITH PANERA CM PRIOR TO ROUGH-IN. RECEPTACLE TO BE LOCATED AS CLOSE AS POSSIBLE TO WINDOW AT PATIO DINING.
WH	WATER HEATER CONTROLS	120	1	5	VERIFY	PROVIDE ROUGH-IN AND FINAL CONNECTION.

Bakery-Cafe:

0620

SYSTEM: NEXT GEN

Project Team:

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Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION  
**Bakery Cafe#2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

ELECTRICAL  
ROUGH-IN  
SCHEDULES

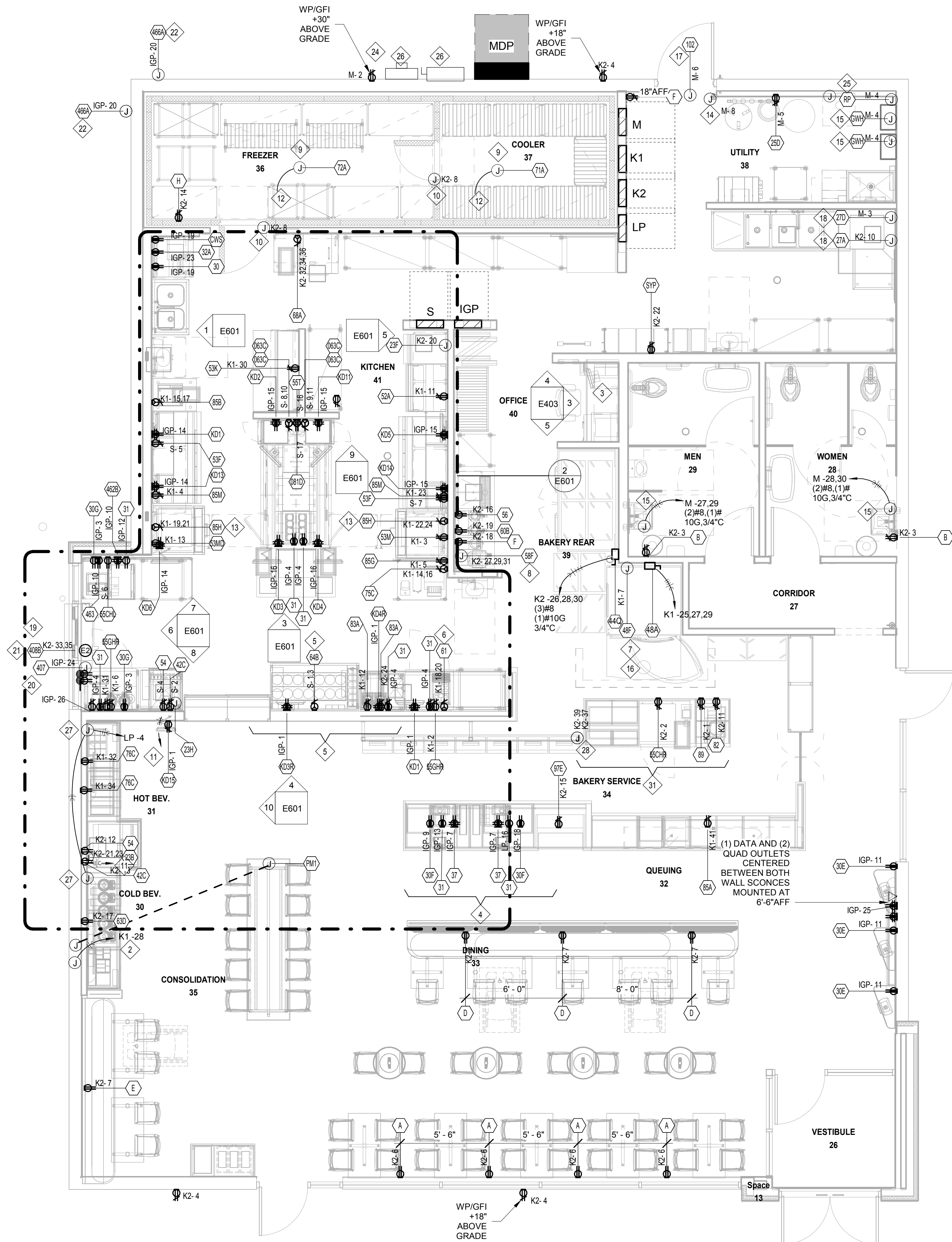
Project Number: 2406  
Drawn By: MBN  
Issue Date: 07/05/2022  
DPM: DC  
DM: CH  
CPM: JP

Sheet Number: E202



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# 1 ELECTRICAL POWER PLAN

1/4" = 1'-0"

## GENERAL NOTES:

- E.C. SHALL RUN NEUTRAL AND GROUNDING WIRES TO ALL KITCHEN EQUIPMENT. NO SHARED NEUTRALS SHALL BE USED.
- ALL KITCHEN EQUIPMENT SHALL BE FURNISHED BY OTHERS. ELECTRICAL CONTRACTOR SHALL SET IN PLACE AND MAKE FINAL CONNECTIONS.
- ALL CONDUIT PASSING THROUGH WALL OF COOLER/FREEZER SHALL BE SEALED WITH SILICONE.
- ALL RECEPTACLES SHALL BE NEMA GROUNDING TYPE. RECEPTACLES IN DINING AREA SHALL HAVE BLACK WIRING DEVICES AND BLACK COVERS. RECEPTACLES IN KITCHEN AREA SHALL HAVE BLACK WIRING DEVICES AND BRUSHED STAINLESS STEEL COVERS.
- ALL KITCHEN EQUIPMENT JUNCTION BOXES SHOWN SHALL INCLUDE FINAL CONNECTION TO THEIR RESPECTIVE KITCHEN EQUIPMENT.
- VERIFY ELECTRICAL REQUIREMENTS, CONNECTIONS, AND EXACT LOCATION OF CONNECTIONS. COORDINATE WITH EQUIPMENT SUPPLIER/CONTRACTOR.
- ALL 120V OUTLETS IN KITCHEN AREA ARE TO BE GFCI PROTECTED, EITHER BY RATED BREAKERS OR DEVICES.
- REFER TO THE GENERAL CONDITIONS ON SHEET G011 FOR FIRE STOPPING REQUIREMENTS.

CONDUITS INSTALLED EXPOSED AND NOT CONCEALED IN WALLS OR MOUNTED ABOVE FINISHED CEILINGS SHALL BE INSTALLED A MINIMUM OF 1" CLEAR SPACING FROM WALL AND 6" ABOVE FINISHED FLOOR FOR CLEANING PURPOSES. INSALLATION OF EXPOSED FLEXIBLE CONDUIT IS NOT ACCEPTABLE.

## KEYED NOTES

- SEE ONE-LINE DIAGRAM AND PANEL SCHEDULES ON SHEET E501.
- PROVIDE ROUGH-IN AND FINAL CONNECTION TO FIREPLACE IGNITION CONTROL SWITCH AND POWER VENT LOCATED ON ROOF. CONDUIT SHALL BE ROUTED WITHIN WALL AND ROUTED UNDER SLAB TO UNIT. ROOF VENT POWER SUPPLY DERIVES FROM THE CONROL PANEL TERMINAL #7 AND SHALL BE ROUTED BACK TO WALL AND UP TO ROOF VENT. LOCATE LOCAL DISCONNECTING MEANS IN UNIT BASE HOUSING. COORDINATE POWER STUB UP WITH OWNER AND FIREPLACE MANUFACTURER.
- SEE DETAILS ON SHEET E403 FOR LOCATION AND CIRCUIT OF RECEPTACLES IN OFFICE AREA.
- ALL WIRING DEVICES IN FRONT COUNTER/CONSOLIDATION WALL SHALL BE INSTALLED IN CABINETRY OR IN CASING AND ACCESSED FROM THE FRONT REMOVABLE PANELS. INSTALL GROMMETS IN WALL TO CONNECT EQUIPMENT TO DEVICES. RUN CONDUIT BELOW SLAB TO NEAREST WALL WHICH ENGAGES CEILING FOR CIRCUITING "HOME RUNS". EACH ISOLATED GROUND CIRCUIT SHALL BE RUN IN SEPARATE CONDUIT. ROUTING OF CONDUIT BELOW FLOOR SHALL BE IN SUCH A WAY AS TO MINIMIZE CHANNELING OF SLAB AND AMOUNT OF CONDUIT.
- RECEPTACLES FOR EQUIPMENT (IN THE FRONT LINE) SHALL BE FLUSH-MOUNTED AND RECESSED INTO CASEWORK.
- RECEPTACLE FOR ESPRESSO MACHINE PROVIDED BY MANUFACTURER. MOUNT ESPRESSO RECEPTACLE SIDEWAYS IN CASEWORK CHASE SO CORD AND PLUG DOES NOT INTERFERE WITH REFRIGERATOR LOCATION.
- VERIFY WIRE SIZE WITH OVEN SUPPLIER.
- PROVIDE ROUGH-IN AND FINAL CONNECTION TO COFFEE MACHINE. PROVIDE "LOCK-OUT" TYPE CIRCUIT BREAKER IN PANEL K2. CONTRACTOR TO PROVIDE 8/4 BLACK SEOWW FLEXIBLE CORD AND MAKE FINAL CONNECTION TO EQUIPMENT. CORD TO ALLOW 2'-6" MOVEMENT OF EQUIPMENT MINIMUM.
- PROVIDE ROUGH-IN AND FINAL CONNECTION TO COOLER/FREEZER COMPRESSOR. COORDINATE WITH G.C. AND COOLER/FREEZER MANUFACTURER. SEE SHEET M501 FOR LOCATION.
- PROVIDE ROUGH-IN AND FINAL CONNECTION TO COOLER/FREEZER DOOR. FIELD VERIFY LOCATION. COORDINATE WITH G.C. AND COOLER/FREEZER MANUFACTURER.
- ELECTRICAL CONTRACTOR TO MAKE ELECTRICAL CONNECTION BETWEEN ICE MAKER AND REMOTE CONDENSER ON ROOF. COORDINATE WITH G.C. AND EQUIPMENT MANUFACTURER. ROUGH-IN FOR FUTURE ROOF PENETRATION AT ICE MACHINE.
- PROVIDE ROUGH-IN AND FINAL CONNECTION TO EVAPORATOR. EXTEND CIRCUIT FROM COMPRESSOR ON ROOF. COORDINATE WITH G.C. AND COOLER/FREEZER MANUFACTURER.
- PROVIDE ROUGH-IN AND FINAL CONNECTION TO DOUBLE BATCH OVEN. VERIFY RECEPTACLE ORIENTATION AND CORD AND PLUG REQUIREMENTS WITH MANUFACTURER AND PANERA REPRESENTATIVE.
- VERIFY REQUIREMENTS OF DETEX DOOR ALARM WITH EQUIPMENT SUPPLIER.
- PROVIDE ROUGH-IN AND FINAL CONNECTION TO WATER HEATER. COMPLETE INSTALLATION SHALL BE IN COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS. COORDINATE REQUIREMENTS WITH PLUMBING CONTRACTOR.
- PROVIDE ROUGH-IN AND FINAL CONNECTION TO RACK OVEN HOOD EXHAUST FAN, DRAFT INDUCER MOTOR, AND PRESSURE SWITCH. FAN SHALL BE INTERLOCKED WITH OVEN TO RUN WHEN OVEN IS ON. SEE WIRING DETAILS ON MECHANICAL SHEETS. COORDINATE WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER.
- PROVIDE DOOR SWITCH/SENSOR TO ACTIVATE DELIVERY DOOR AIR CURTAIN WHEN DOOR IS OPENED.
- INSTALL ENTIRE DISHWASHER HOOD CONTROL SYSTEM. COMPONENTS PROVIDED BY ECOLAB. WIRING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE SHEET E502 THIS SET FOR CONTROL WIRING DIAGRAM. COORDINATE CONNECTION OF HOOD CONTROLS TO EXHAUST FAN WITH MECHANICAL CONTRACTOR IN FIELD.
- HME WIRELESS TRANSMITTER LOCATED @ 24" BELOW CEILING. VERIFY LOCATION AND REQUIREMENTS WITH GENERAL CONTRACTOR IN FIELD.
- PROVIDE JBOX TO FEED POWER TO DRIVE THRU WINDOW. COORDINATE LOCATION WITH WINDOW SUPPLIER AND INSTALLATION MANUAL.
- PROVIDE ROUGH-IN FOR AIR CURTAIN. (WHERE REQUIRED) AIR CURTAIN TO BE ACTIVATED WHEN DRIVE-THRU WINDOW IS OPENED.
- PROVIDE ROUGH-IN AND FINAL CONNECTION TO NEW SECURITY CAMERA SHOWN. VERIFY CONNECTION REQUIREMENTS IN FIELD WITH EQUIPMENT SUPPLIER. WHERE 120V CIRCUIT IS REQUIRED USE 20 AMP CIRCUIT LOCATED IN "IGP" PANEL AS INDICATED ON PLANS.
- NOT USED.
- PROVIDE ROUGH-IN AND FINAL CONNECTION FOR IRRIGATION CONTROLLER. COORDINATE LOCATION WITH PANERA REPRESENTATIVE.
- PROVIDE ROUGH-IN AND FINAL CONNECTION TO TIME CLOCK FOR WATER RECIRCULATING PUMP. COORDINATE LOCATION WITH G.C. IN FIELD AND TIME PROGRAMMING WITH PANERA REPRESENTATIVE
- EXISTING SERVICE ENTRANCE EQUIPMENT (CT CABINET, MAIN DISCONNECT SWITCH AND ELECTRIC METER) LOCATIONS. 800 AMP, 3 PHASE, 4 WIRE ELECTRICAL SERVICE. REFER TO ONE-LINE DIAGRAM ON SHEET E501.
- PROVIDE 120V, 20A POWER OUTLET FOR FUTURE DISPLAY. COORDINATE MOUNTING HEIGHT WITH CONSTRUCTION MANAGER PRIOR TO ROUGHIN.
- PROVIDE (2) CIRCUIT FOR DIGITAL MENU BOARDS. PROVIDE WIRING TO CEILING, DOWN HOLLOW METAL POLE AND CONNECT MENU BOARDS COMPLETE AND READY FOR OPERATION.

Bakery-Cafe:

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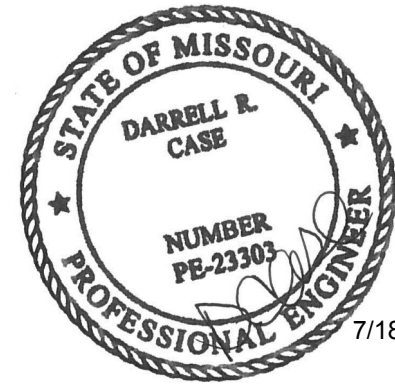
SYSTEM: NEXT GEN

Project Team:

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CERTIFICATE OF AUTHORITY NO. 001-098

Professional Seal:



Project Title:

**Bakery Cafe #2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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No.	Description	Date
1	PERMIT SET - TI	7/18/2022

## ELECTRICAL POWER PLAN

Project Number:

Sheet Number:

2406

Drawn By:

MBN

Issue Date:

07/05/2022

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DM:

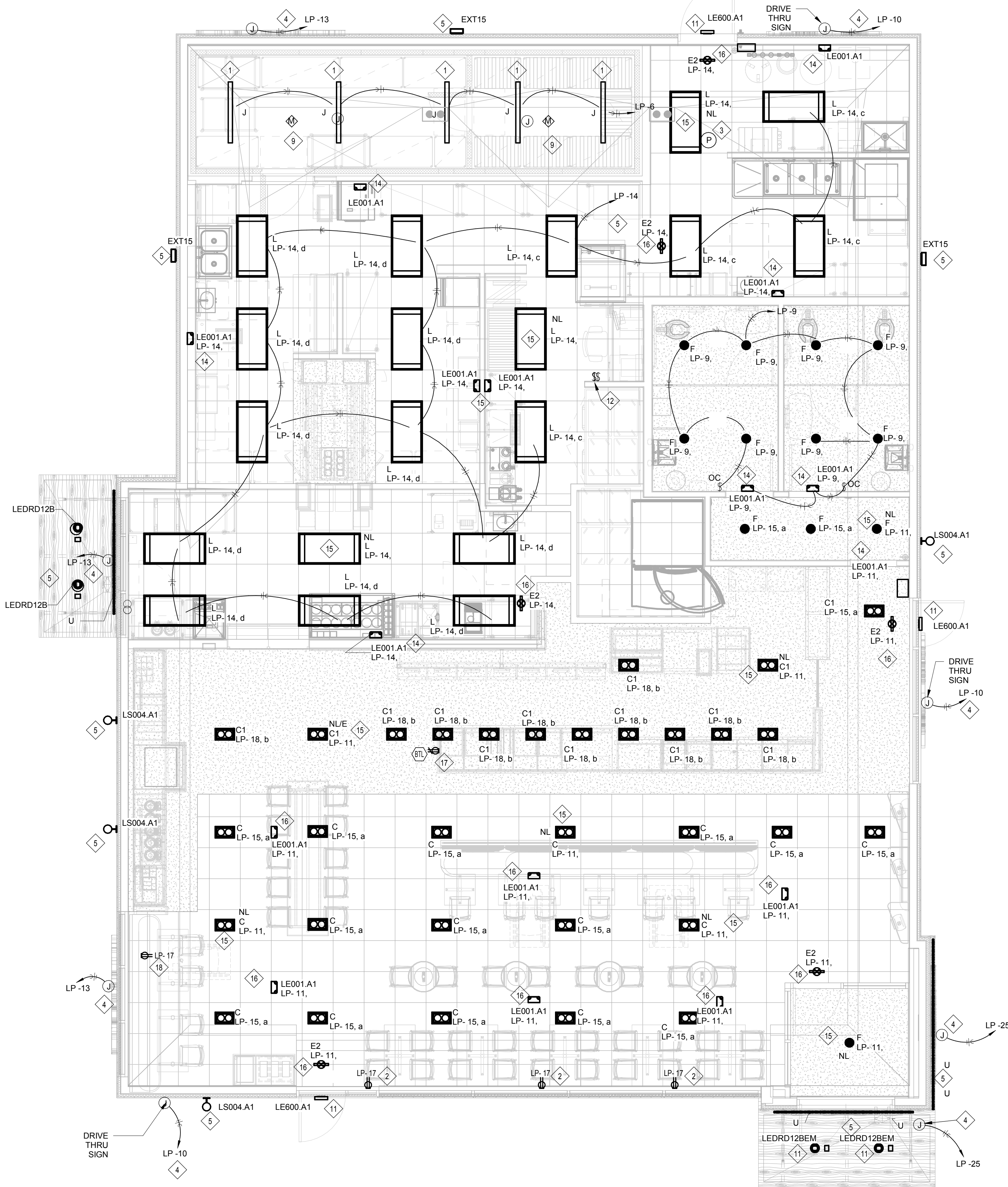
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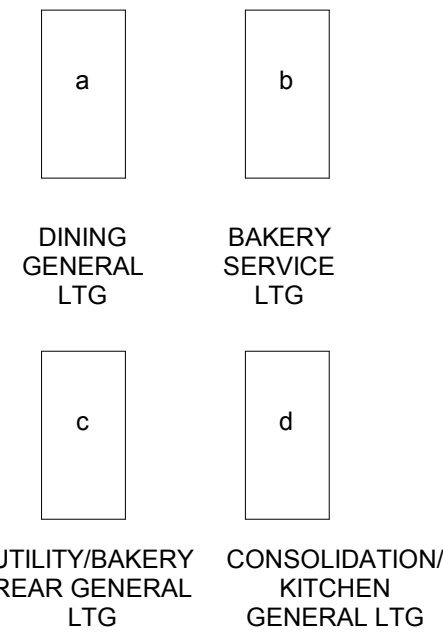
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## CONTRACTOR NOTE

FIXTURE EM-EUE IS EQUIPPED WITH REMOTE BATTERY - COORDINATE ACTUAL BATTERY LOCATION WITH ARCHITECTURAL DRAWINGS. BATTERY MAY BE LOCATED AS MUCH AS 100 TO 430 FEET FROM LAMP HEAD (SEE MANUFACTURER'S LITERATURE FOR LOW VOLTAGE WIRE SIZE DEPENDING ON DISTANCE BETWEEN BATTERY AND LAMPS. 120 VOLT POWER SOURCE AND CONDUIT TERMINATES AT BATTERY AND LOW VOLTAGE WIRES ARE EXTENDED FROM BATTERY TO LAMPS. ALSO BE AWARE THAT LOW VOLTAGE WIRES DO NOT REQUIRE J-BOX BEHIND LAMP BASE.



CONTRACTOR TO VERIFY EXACT CONFIGURATION REQUIRED WITH SPACE AVAILABLE. PROVIDE LABELS AS DIRECTED BY OWNER. SWITCHES SHALL NOT BE MOUNTED HIGHER THAN 48". ALL SWITCH SHALL BE DIMMABLE AND COMPATIBLE WITH FIXTURE TYPE.

2 SWITCH BANK  
NOT TO SCALE

## LIGHTING GENERAL NOTES

- INSTALL LIGHT FIXTURES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE LATEST EDITION OF THE NEC.
- ALL WIRING SHALL BE COPPER, #12 THHN IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
- WHERE CONDUCTORS ARE NOT INDICATED (FOR CLARITY) INSTALL CONDUCTORS AS INDICATED BY THE CORRESPONDING HOMERUN.
- ALL FIXTURES TO BE PROVIDED BY, RECEIVED, STORED, AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL FIXTURE LAMPS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL SUPPLY 10% ADDITIONAL SPARE LAMPS FOR ALL LAMP TYPES.
- NL' REFERS TO NIGHT LIGHT FIXTURE.
- EM' REFERS TO LIGHT FIXTURE WITH EMERGENCY BALLAST.

## KEYED NOTES

- COORDINATE CONNECTION OF COOLER/FREEZER LIGHTING WITH COOLER/FREEZER EQUIPMENT SUPPLIER AND CONTRACTOR. MANUFACTURER PROVIDES FIXTURE, AND CONTRACTOR PROVIDES LOW TEMP BALLAST.
- PROVIDE RECEPTACLE ABOVE STOREFRONT WINDOW (TYPICAL - MOUNT AT 6" ABOVE WINDOW ) FOR WINDOW DISPLAY. CIRCUIT VIA LIGHTING CONTACTOR AND TIME CLOCK FURNISHED WITH CPI PANEL. COORDINATE WITH CPI REPRESENTATIVE.
- INSTALL PHOTOCELL (INCLUDED W/CPI PACKAGE) IN UNOBSTRUCTED LOCATION ON ROOF. LOCATE W/SENSOR POINTING NORTH. CONNECT TO CPI LIGHTING CONTROL EQUIPMENT.
- JUNCTION BOX AND CIRCUIT FOR SIGNAGE PROVIDED IN SHELL PACKAGE. CONNECT SIGN COMPLETE AND READY FOR OPERATION..
- EXTERIOR LIGHTING FURNISHED AS PART OF SHELL PACKAGE.
- NOT USED.
- NOT USED.
- NOT USED.
- PROVIDE HUBBELL WSP-SM-UNV-LTWT OCCUPANCY SENSOR W/WSPLENS-360-LTWT LENS.
- NOT USED
- EXTERIOR EGRESS FIXTURE FURNISHED AS PART OF SHELL PACKAGE.
- APPROXIMATE LOCATION OF SWITCHBANK. SEE DETAIL THIS SHEET. COORDINATE EXACT LOCATION AND SWITCH CONFIGURATION WITH OWNER.
- NOT USED.
- EMERGENCY EGRESS FIXTURE, CONNECT TO UNSWITCH LEG OF CIRCUIT NOTED
- CONNECT NIGHT LIGHT TO UNSWITCHED LEG OF CIRCUIT NOTED.
- EMERGENCY EXIT SIGN, CONNECT TO UNSWITCH LEG OF CIRCUIT NOTED.
- RECEPTACLE FOR PLUG-IN LED STRIP LIGHTS INSIDE OF BAKERY TOWERS, CONNECT TO BAKERY SERVICE LIGHT CIRCUIT AND SWITCH ON/OFF WITH TOGGLE SWITCH INDICATED. VERIFY AND COORDINATE ALL BAKERY TOWER LIGHT FIXTURE LOCATIONS AND REQUIREMENTS WITH CASEWORK AND PANERA REPRESENTATIVES.
- PROVIDE CEILING MOUNTED RECEPTACLE FOR WINDOW DISPLAY. CIRCUIT VIA LIGHTING CONTACTOR AND TIME CLOCK FURNISHED BY EC.

## NOTE

SEE SHEET A131 FOR LIGHT FIXTURE SCHEDULE AND SHEET A130 FOR ADDITIONAL INFORMATION ON FIXTURE LOCATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REVIEWING ARCHITECTURAL ELEVATIONS FOR ANY ADDITIONAL POWER REQUIREMENTS INCLUDING SIGNS AND BUILDING LIGHTING BEING PROVIDED AS A PART OF THE PANERA BUILD OUT.

ALL LIGHTING FIXTURE BULBS SHALL HAVE PROTECTIVE COVERS, BE COATED OR SHATTER-RESISTANT IN AREAS WHERE THERE IS NON-PREPACKAGED READY TO EAT FOOD, CLEAN EQUIPMENT, UTENSILS, LINENS OR UNWRAPPED SINGLE USE ARTICLES, FOOD PREPARATION AREAS, OPENED FOOD STORAGE ROOMS, AND DISHWASHING AREAS.

## NOTE

ALL FIXTURES (NO EXCEPTIONS) TO BE OBTAINED THROUGH NATIONAL ACCOUNT AT: STANDARD ELECTRICAL SUPPLY COMPANY #14 JEWEL DRIVE WILMINGTON, MA 01887 CONTACT: PANERA ACCOUNT REPRESENTATIVE 800-370-5050 x3176 CITY LIGHTING 4307 WEST PAPIN ST. ST. LOUIS, MO 63110 CONTACT: DON SCHWEITZER 314-566-5312

Bakery-Cafe:

0620

SYSTEM: NEXT GEN

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Professional Seal:



Project Title:

**Bakery Cafe #2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086



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1	PERMIT SET - TI	7/18/2022

**ELECTRICAL  
LIGHTING PLAN**

Project Number:

Sheet Number:

2406

Drawn By:

JAF

Issue Date:

07/05/2022

DPM:

DC

DM:

CH

CPM:

JP

**E301**

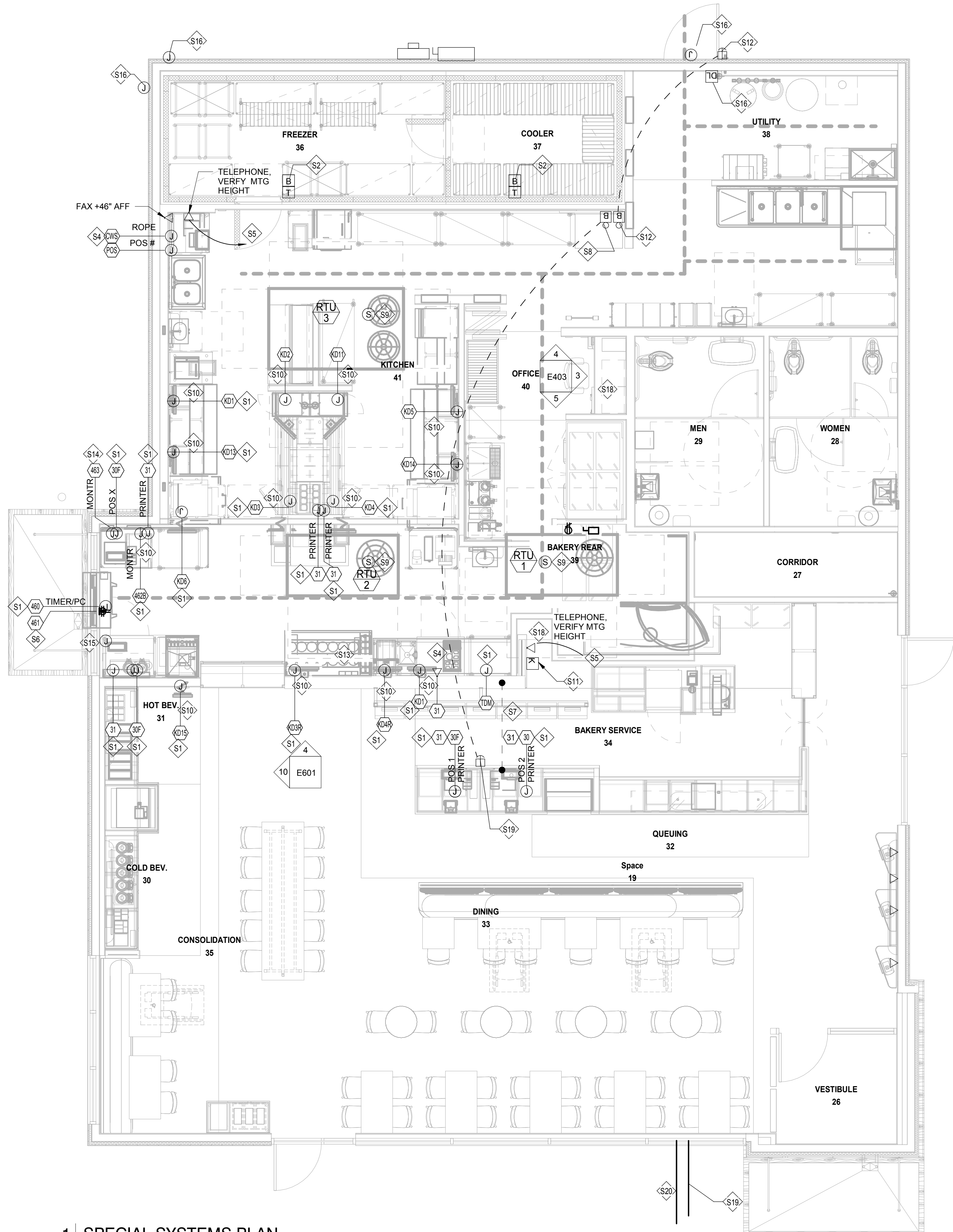
1 ELECTRICAL LIGHTING PLAN  
1/4" = 1'-0"

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1 SPECIAL SYSTEMS PLAN  
1/4" = 1'-0"

KEYED NOTES

- S1 SEE "POS SYSTEM DIAGRAM" ON SHEET E403 FOR ALL WIRING AND CONNECTION INFORMATION.
- S2 AT FREEZER AND COOLER PROVIDE TWO SINGLE GANG JUNCTION BOXES ADJACENT TO STRIKE SIDE OF DOOR WITH 1/2" CONDUIT W/PULLWIRE STUBBED OUT ABOVE ACCESSIBLE CEILING. ONE BOX FOR ALARM SYSTEM HOLD-UP PUSHBUTTON AND ONE FOR TEMPERATURE SENSOR. FIELD VERIFY EXACT LOCATIONS W/OWNERS REPRESENTATIVE. COORDINATE WORK WITH SECURITY SYSTEM CONTRACTOR AND FREEZER/COOLER EQUIPMENT MANUFACTURER.
- S3 PROVIDE ALL NECESSARY CONTROL WIRING FOR FREEZER AND COOLER PER MANUFACTURERS REQUIREMENTS. PROVIDE 1/2" CONDUIT W/PULLWIRE CONCEALED IN PARTITION RUN UP FROM TOP EDGE OF DOOR FRAME AND STUBBED OUT ABOVE ACCESSIBLE CEILING FOR DOOR CONTACT. CONDUIT SHALL BE AT STRIKE SIDE OF DOOR, NOT HINGED SIDE. COORDINATE WORK WITH SECURITY SYSTEM CONTRACTOR.
- S4 COORDINATE INSTALLATION OF ROPE TERMINAL AND PRINTER. CONTRACTOR TO PROVIDE PATCH CABLES FROM OFFICE (MINIMUM 3 PLUS EXTRAS AS BACKUP).
- S5 PROVIDE CONDUIT FROM ALL PHONE OUTLETS AT HEIGHT INDICATED TO THE TELEPHONE SYSTEM IN THE OFFICE. TELEPHONE CONDUITS SHALL HAVE A PULL WIRE INSTALLED. STUB 3/4" CONDUIT FROM TELEPHONE OUTLET TO ABOVE FINISHED CEILING. PROVIDE INSULATED BUSHING ON CONDUIT END. CURVE CONDUIT TOWARDS DIRECTION OF TELEPHONE SERVICE. COORDINATE WITH TELEPHONE COMPANY PRIOR TO INSTALLATION.
- S6 HME WIRELESS TRANSMITTER LOCATED @ 24" BELOW CEILING. VERIFY LOCATION AND REQUIREMENTS WITH GENERAL CONTRACTOR IN FIELD.
- S7 ROUTE POS SYSTEM CONDUIT(S) UNDER FLOOR OR THROUGH CASEWORK TO NEAREST FULL HEIGHT PARTITION - THEN UP ABOVE ACCESSIBLE CEILING. PROVIDE W/ PULL WIRE. SEE POS SYSTEM NOTES ON SHEET E403 FOR QUANTITY, SIZES, AND REQUIREMENTS.
- S8 PROVIDE PUSH BUTTON AT MAIN BAKERY REGISTER WITH CHIME IN REAR AREA. CHIME TONE SHALL BE DIFFERENT FROM THAT OF THE DOOR CHIME. RUN WIRING IN CABINETRY AND/OR IN CONDUIT BELOW FLOOR (IF REQUIRED) TO STUB OUT ABOVE ACCESSIBLE CEILING. VERIFY REQUIREMENTS IN FIELD.
- S9 PROVIDE ROUGH-IN AND FINAL CONNECTION TO SMOKE DETECTOR MOUNTED IN RETURN AIR DUCT. DETECTOR SHOULD SHUT DOWN RTU UPON ACTIVATION. (WHEN FIRE ALARM IS PROVIDED SMOKE DETECTOR SHALL NOTIFY CONTROL PANEL AND SHUT DOWN RTU).
- S10 VIDEO MONITOR, COMPLETE WITH VDU CONTROLLER BOX, IS SUPPLIED AND INSTALLED BY VENDOR.
- S11 PROVIDE RECESSED SINGLE GANG JUNCTION BOX AT 80" AFF WITH 1/2" CONDUIT W/ PULLWIRE UP IN PARTITION STUBBED OUT ABOVE ACCESSIBLE CEILING FOR ALARM SYSTEM CONTROL KEYPAD. LOCATE THE KEYPAD ON THE CUSTOMER SIDE OF THE WALL NEAR THE DOORWAY INTO THE KITCHEN CLOSEST TO THE CAFE'S FRONT ENTRY. COORDINATE WORK WITH SECURITY SYSTEM CONTRACTOR.
- S12 PROVIDE DOOR BUZZER SYSTEM AT REAR ENTRY DOOR. PROVIDE PUSHBUTTON AT 48" AFF ADJACENT TO STRIKE SIDE OF ENTRY DOOR. PROVIDE BUZZER MOUNTED JUST BELOW CEILING IN KITCHEN AREA. FIELD VERIFY EXACT LOCATION. PUSHBUTTON SHALL BE EDWARDS 632 OR EQUAL BUZZER SHALL BE EDWARDS 725 OR EQUAL.
- S13 PROVIDE SEPARATE CONDUIT RUN BELOW FLOOR OR IN CASEWORK FOR SOUND SYSTEM WIRING TO MICROPHONES - VERIFY REQUIREMENTS IN FIELD. (WHERE REQUIRED)
- S14 PROVIDE ROUGH-IN AND FINAL CONNECTION TO SECURITY SYSTEM MONITOR. VERIFY CONNECTION REQUIREMENTS WITH SECURITY SYSTEM PROVIDER. (WHERE REQUIRED)
- S15 JBOX/CONDUIT FOR DRIVE THRU WINDOW SECURITY WIRING. VERIFY LOCATION AND REQUIREMENTS WITH EQUIPMENT PROVIDER PRIOR TO INSTALLATION OF CONDUIT.
- S16 JBOX/CONDUIT FOR DRIVE THRU SECURITY CAMERAS. VERIFY LOCATION AND REQUIREMENTS WITH EQUIPMENT PROVIDER PRIOR TO INSTALLATION OF CONDUIT.
- S17 NOT USED.
- S18 SEE DETAILS ON SHEET E403 FOR INFORMATION AND LOCATION OF 'SPECIAL SYSTEMS' EQUIPMENT/ DEVICES IN OFFICE AREA.
- S19 PROVIDE 1" CONDUIT TO SPEAKER POST AT PATIO. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- S20 PROVIDE 1" CONDUIT TO LANDSCAPING AREA FOR IRRIGATION SYSTEM BOX. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.

KEYED NOTES

SPEAKER SYSTEM TO BE INSTALLED ON A DESIGN BUILD BASIS BY PANERA'S VENDOR AND SHALL INCLUDE INTERIOR AND EXTERIOR APPLICATIONS.

Bakery-Cafe:  
**0620**

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STATE OF MISSOURI  
DARRELL R. CASE  
NUMBER  
PE-23305  
7/18/2022  
PROFESSIONAL ENGINEER

Project Title:

PROTOTYPE - NEW CONSTRUCTION

Bakery Cafe#2406  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086

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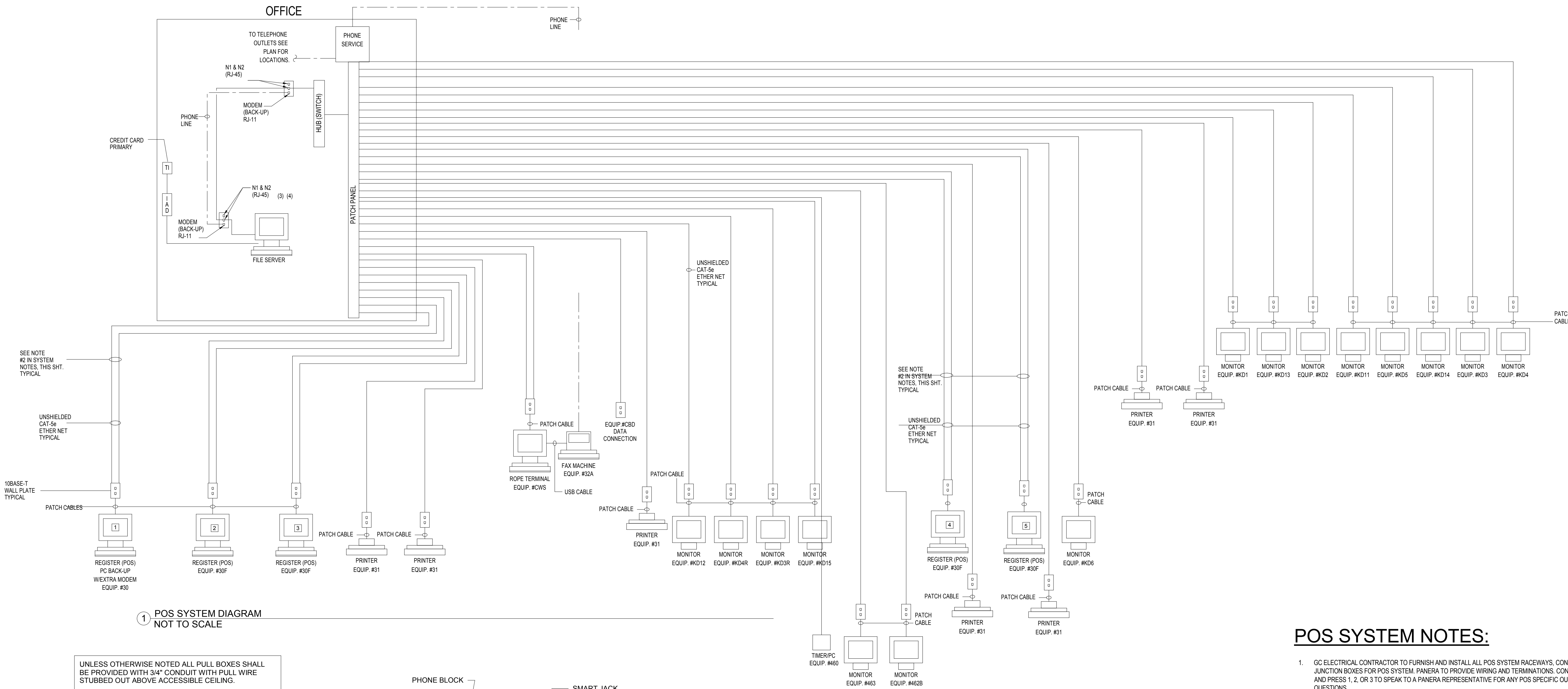
SPECIAL SYSTEMS  
PLAN

Project Number: 2406  
Drawn By: MBN  
Issue Date: 07/05/2022  
DC

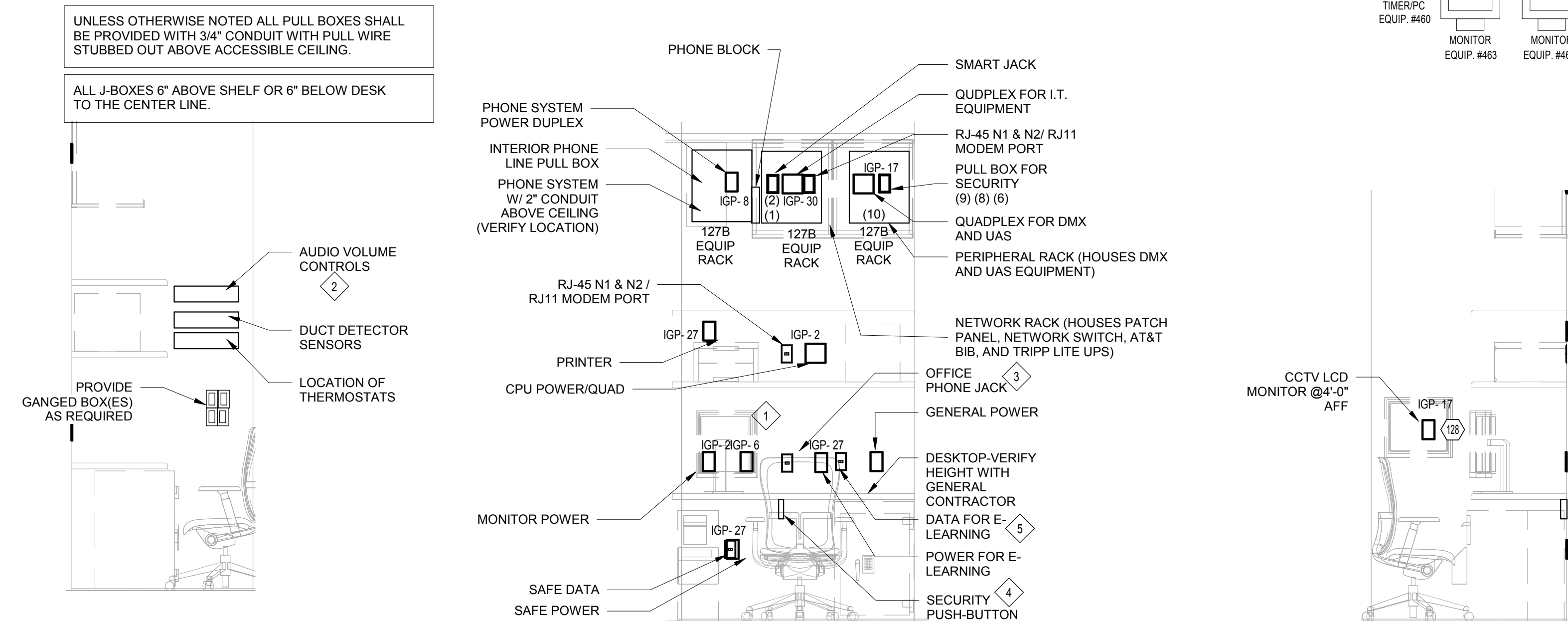
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1 POS SYSTEM DIAGRAM  
NOT TO SCALE



B-SIDE WALL  
(BACKSIDE OF A)

B-DESK WALL

A-SIDE WALL

3 MANAGERS OFFICE DESK DETAILS  
1/2" = 1'-0"

DETAIL KEYED NOTES

- SEE POS DETAIL 1/E403 THIS SHEET FOR ALL WIRING AND CONNECTION INFORMATION. REUSE EXISTING JUNCTION BOXES AND WIRING WHERE POSSIBLE.
- PROVIDE 3-SINGLE GANG BOX ROUGH-IN AT 4'-0" AFF WITH 1/2" CONDUIT W/ PULLWIRE UP IN PARTITION STUBBED OUT ABOVE ACCESSIBLE CEILING FOR SEPARATE SPEAKER VOLUME CONTROLS (DINING, RESTROOMS, OUTDOORS). COORDINATE WORK WITH SOUND SYSTEM SUB-CONTRACTOR.
- PROVIDE CONDUIT FROM ALL PHONE OUTLETS AT HEIGHT INDICATED TO THE TELEPHONE SYSTEM IN THE OFFICE. TELEPHONE CONDUITS SHALL HAVE A PULL WIRE INSTALLED. STUB 3/4" CONDUIT FROM TELEPHONE OUTLET TO ABOVE FINISHED CEILING. PROVIDE INSULATED BUSHING ON CONDUIT END. CURVE CONDUIT TOWARDS DIRECTION OF TELEPHONE SERVICE. COORDINATE WITH TELEPHONE COMPANY PRIOR TO INSTALLATION.
- PROVIDE RECESSED SINGLE GANG JUNCTION BOX BELOW MANAGER'S DESK WITH 1/2" CONDUIT W/PULLWIRE UP IN PARTITION STUBBED OUT ABOVE ACCESSIBLE CEILING FOR ALARM SYSTEM HOLD-UP PUSHBUTTON. FIELD VERIFY EXACT LOCATION W/OWNER'S REPRESENTATIVE. COORDINATE WORK WITH SECURITY SYSTEM CONTRACTOR.
- PROVIDE 3/4" CONDUIT WITH PULLSTRING UP TO ABOVE CEILING. FIELD VERIFY EXACT TERMINATION POINT AND FINAL CONNECTION REQUIREMENTS.

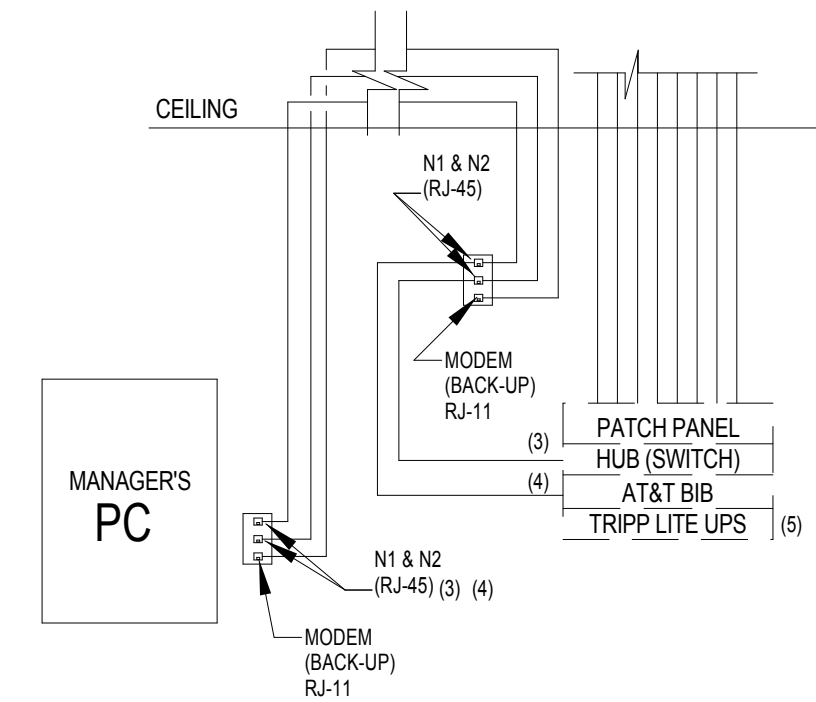
POS SYSTEM NOTES:

- GC ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL ALL POS SYSTEM RACEWAYS, CONDUITS, AND JUNCTION BOXES FOR POS SYSTEM. PANERA TO PROVIDE WIRING AND TERMINATIONS. CONTACT: 314-984-2450 AND PRESS 1, 2, OR 3 TO SPEAK TO A PANERA REPRESENTATIVE FOR ANY POS SPECIFIC OUTLET OR WIRING QUESTIONS.
- PROVIDE 1-1/4" C WITH TWO UNSHIELDED CATEGORY 5E LINES FROM EACH CASH REGISTER TO EQUIPMENT BOARD IN OFFICE. ONE CAT-5E LINE FOR THE CASH REGISTER AND ONE FOR THE ATTACHED PRINTER. EACH WALL PLATE TO HAVE (2) RJ-45 JACKS (IN CASEWORK). ALL UNDERFLOOR CONDUIT AND ROUGH-INS BY E.C. RUN CONDUIT BELOW FLOOR OR IN CASEWORK TO NEAREST FULL HEIGHT PARTITION AS REQUIRED. RUN WIRING CONCEALED IN CABINETRY/CASEWORK.
- PROVIDE 1" C WITH UNSHIELDED CATEGORY 5E FROM EACH MONITOR OR PRINTER TO EQUIPMENT BOARD IN OFFICE. EACH WALL PLATE TO HAVE (2) RJ-45 JACKS (IN CASEWORK). ALL UNDERFLOOR CONDUIT AND ROUGH-INS BY E.C. RUN CONDUIT BELOW FLOOR OR IN CASEWORK TO NEAREST FULL HEIGHT PARTITION AS REQUIRED. RUN WIRING CONCEALED IN CABINETRY/CASEWORK.
- REGISTER IN REAR SERVICE LINE SHOWN NEAR PHONE/FAX SHALL BE THE ROPE TERMINAL.
- THE PHONE LINE TO CASEWORK FOR CREDIT CARD CONNECTION SHALL BE INSTALLED IN 1" CONDUIT TO ALLOW FOR FUTURE CAPACITY IF ADDITIONAL PHONE LINES ARE REQUIRED.
- POS DATA LINES SHALL BE INSTALLED IN CONDUIT SEPARATE FROM ALL POWER CONDUCTORS.
- COMMUNICATIONS CONTRACTOR MUST TEST ALL FEEDS FOR CONTINUITY AND LABEL ALL FEEDS.
- ALL ROUGH-INS FOR EQUIPMENT @ CASEWORK TO BE PROVIDED IN FRONT RACEWAY OF CASEWORK. ALL ROUGH-INS FOR EQUIPMENT ON REAR SERVICE LINE TO BE @48" AFF UNLESS OTHERWISE NOTED

OFFICE CABLING NOTES

- POS SYSTEM
- ALL DATA DROPS FOR REGISTERS & PRINTERS WILL CONNECT INTO THE PATCH PANEL THROUGH THE CEILING. SEE POS SYSTEM DIAGRAM AND NOTES.
  - ONE CABLE GOES FROM THE SWITCH TO THE PATCH PANEL.
  - PROVIDE CABLES TO MAKE RJ45 CONNECTIONS FROM MANAGERS PC TO SWITCH
  - PROVIDE CABLES TO MAKE RJ45 CONNECTIONS FROM MANAGERS PC TO AT&T BIB
  - NETWORK SWITCH WILL BE POWERED BY THE UPS (WHICH IS PLUGGED INTO THE OUTLET ABOVE IT)
  - CCTV
  - THIS WILL BE LOCATED AT THE TOP LEFT AREA.
  - 17" FLAT PANEL MONITOR WILL BE HUNG ADJACENT WALL TO DESK, JUST IN FRONT OF THE SHELVING.
- ALARM SYSTEM
- THIS DEVICE CAN BE LOCATED ANYWHERE IN THE OFFICE. THE CONNECTION IS A CAT3 LINE HARDWIRED INTO THE PHONE SYSTEM AND A POWER OUTLET.
  - IF STORES ARE PRE-WIRED, THE TECH MAY LEAVE THE LINE AT THE PHONE AREA TO PUNCH DOWN INTO THE SYSTEM.
  - DMX/MUZAK
  - LOCATED ON THE TOP SHELF OF THE RACK ON LEFT HAND SIDE.

2 CABLE SCHEMATIC  
NOT TO SCALE



Bakery-Cafe:

0620

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Professional Seal:



Project Title:

PROTOTYPE - NEW CONSTRUCTION  
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LEES SUMMIT, MO 64086



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POS DIAGRAM AND  
NOTES

Project Number:

Sheet Number:

2406

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




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ELECTRICAL LEGEND			
POWER			
SYMBOL	DESCRIPTION		
	DUPLEX RECEPTACLE MOUNTED AT 15'AFF UNLESS NOTED OTHERWISE		
	QUAD PLEX RECEPTACLE MOUNTED AT 15'AFF UNLESS NOTED OTHERWISE		
	DUPLEX ISOLATED GROUND TYPE RECEPTACLE (IG532CN ORANGE) MOUNTED AT 15'AFF UNLESS NOTED OTHERWISE		
	QUAD PLEX ISOLATED GROUND TYPE RECEPTACLE MOUNTED AT 15'AFF UNLESS NOTED OTHERWISE		
	DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE		
	JUNCTION BOX		
	MOTOR CONNECTION		
	DISCONNECT SWITCH		
	SINGLE SECTION PANELBOARD		
	BRANCH CIRCUIT WIRING CONCEALED ABOVE CEILING OR IN PARTITION		
	CIRCUIT HOME RUN		
	VERIFY NEMA CONFIGURATION REQUIRED WITH EQUIPMENT SUPPLIER		
COMMUNICATIONS			
	ROUGH-IN FOR TELEPHONE VOICE LINE MOUNTED AT 15'AFF UNLESS NOTED OTHERWISE		
	ROUGH-IN FOR TELEPHONE DATA LINE OR DATACOM MOUNTED AT 15'AFF UNLESS NOTED OTHERWISE		
	EMPTY CONDUIT FOR TELEPHONE CABLES TO BE INSTALLED BY COMMUNICATING SUB CONTRACTOR		
	EMPTY CONDUIT FOR DATA CABLES TO BE INSTALLED BY DATA COM SUB CONTRACTOR		
LIGHTING CONTROL			
	WALL MOUNTED TOGGLE SWITCH, OC=OCCUPANCY SENSING DUAL TECHNOLOGY		
	3-WAY WALL MOUNTED TOGGLE SWITCH		
	SLIDING DIMMER SWITCH (LEVITON OR EQUAL)		
	PROGRAMMABLE TIME SWITCH (TO CONTROL STOREFRONT LIGHTING CIRCUITS)		
	OCCUPANCY SENSING CONTROL, VERIFY EQUIPMENT SPEC WITH ROOM LAYOUT AND OWNER IN FIELD (LEVITON OR EQUAL)		
	CEILING MOUNTED MOTION SENSING CONTROL, VERIFY LOCATION WITH ROOM LAYOUT AND OWNER IN FIELD LUTRON LOS-CDT-2000-WH		
	PHOTO SENSING CONTROL, VERIFY EQUIPMENT SPEC WITH SPACE LAYOUT AND OWNER IN FIELD		
ABBREVIATIONS			
AFF	ABOVE FINISHED FLOOR	J-BOX	JUNCTION BOX
A	AMPERE	KW	KILOWATT
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	PNL	PANEL
ELEC	ELECTRICAL	SPECS	SPECIFICATIONS
EXIST	EXISTING	SW	SWITCH
EQUIP	EQUIPMENT	TEL	TELEPHONE
FA	FIRE ALARM	TYP	TYPICAL
FOIC	FURNISHED BY OWNER, INSTALLED BY ELEC. CONTR.	V	VOLT
G.GND	GROUND	W	WIRE
GFI	GROUND FAULT INTERRUPTER	WP	WEATHERPROOF
HP	HORSEPOWER	PH	PHASE
IG	ISOLATED GROUND	XFMR	TRANSFORMER
VIF	VERIFY IN FIELD	-	-

ELECTRICAL SPECIFICATIONS

- THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS SHALL BE CONSIDERED AS PART OF THIS SPECIFICATION.
- ALL WORK TO BE IN ACCORDANCE WITH THE RULES AND REGULATION OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND THE MOST RECENT EDITION OF NATIONAL ELECTRIC CODE.
- FURNISH ALL MATERIALS, EQUIPMENT, LABOR, & SERVICES REQUIRED FOR THE INSTALLATION OF ALL ELECTRICAL WORK & AS REQUIRED TO PROVIDE A COMPLETE & OPERABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS.

MATERIALS SHALL BE NEW W/ MANUFACTURERS NAME PRINTED THEREON & UNDERWRITERS LABORATORY LISTED. THE SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE W/ THE DRAWINGS AND/OR SPECIFICATIONS. SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE W/ THE DRAWINGS AND/OR SPECIFICATIONS.

- SUBMIT MATERIAL LISTS AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE OWNERS REPRESENTATIVE FOR REVIEW. SUBMITTALS SHALL BE IN ACCORDANCE WITH GENERAL CONDITIONS AND SHALL BEAR THE STAMP OF THE ELECTRICAL CONTRACTOR SHOWING THAT HE HAS REVIEWED AND APPROVED THEM. LACK OF SUCH CONTRACTORS APPROVAL WILL BE CAUSE FOR REJECTION WITHOUT REVIEW BY THE OWNER.
- CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP & MATERIALS, USUAL WEAR EXCEPTED, & SHOULD ANY SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR ACCEPTANCE OF THE BLDG. BY THE YEAR, THIS CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS & DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE TO THE OWNER.

- INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS, NOR MENTIONED IN THE SPECIFICATIONS, THAT CAN BE LEGITIMATELY & REASONABLE BE INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM, SHALL BE FURNISHED & INSTALLED AS THOUGH ITEMIZED HERE IN EVERY DETAIL.
- NOTIFY ARCHITECT IMMEDIATELY OF POSSIBLE CONFLICTS WITH STRUCTURE, MECHANICAL, OR OTHER FEATURES, BEFORE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS & ARRANGEMENT OF INDICATED EQUIP., CONDUIT, OUTLETS, OR WIRING. CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT COST TO OWNER.

- CONTRACTOR SHALL FILE PLANS WITH AND OBTAIN APPROVALS FROM MUNICIPAL AGENCIES. ALL PERMITS AND CERTIFICATES OF INSPECTION SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.

PERTINENT CERTIFICATES SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE, PRIOR TO FINAL BILLING.

- ANY FEES ASSOCIATED WITH CONSTRUCTION AND INSPECTION SHALL BE BORNE BY THE CONTRACTOR IN ORDER TO DELIVER TO THE OWNER A FINISHED BUILDING, READY FOR OCCUPANCY AND 100% OPERATION.

- CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS.

HE SHALL CAREFULLY EXAMINE THE EXISTING CONDITIONS AND LIMITATIONS THEREOF. HE SHALL ASCERTAIN CONDITIONS UNDER WHICH THE WORK MUST BE PERFORMED, INCLUDING THE HANDLING OF MATERIALS, SECURITY AND LIMITING FIELD DIMENSIONS. FURTHER, THIS CONTRACTOR SHALL PROVIDE FIELD VERIFICATION OF LOCATION OF POINTS OF CONNECTION TO LANDLORD'S ELECTRICAL AND TELEPHONE EQUIPMENT AND DISTANCE FROM LEASED SPACE.

ANY DISCREPANCIES WITH THE CONSTRUCTION DOCUMENTS DISCOVERED AS A RESULT OF THE AFOREMENTIONED FIELD SURVEY, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE, PRIOR TO COMMENCING ANY WORK. ANY ADDITIONAL COSTS RESULTING FROM CONTRACTOR'S FAILURE TO DO SO SHALL BE HIS RESPONSIBILITY AND SHALL BE BORNE BY HIM.

- ANY DEVIATION FROM PLANS WITHOUT PRIOR APPROVAL OF THE ARCHITECT SHALL BE CAUSE FOR THE REJECTION OF MATERIALS AND/OR METHODS, AND ANY COST INCURRED TO CORRECT SUCH DEVIATIONS SHALL BE BORNE BY THE A/E. SHALL BE BORNE BY THE CONTRACTOR.

- THE SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL, FOR MATERIALS AND LABOR, BECAUSE OF DIFFICULTIES ENCOUNTERED, WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD PROPER EXAMINATION BEEN MADE.

- ANY COSTS INCURRED DUE TO LACK OF COOPERATION AMONG THE TRADES SHALL BE BORNE BY THE CONTRACTOR.

- CONTRACTOR SHALL SUBMIT 6 COPIES OF SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR APPROVAL FOR ALL EQUIPMENT AND DEVICES INSTALLED THERE WILL BE NO DRAW UNTIL SHOP DRWGVS. HAVE BEEN SUBMITTED & REVIEWED BY ARCH/ENGR.

- THE EQUIPMENT ROUGH-INS AS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE OWNER OR SUPPLIER MAY SUBSTITUTE OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUB-SEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.

- PLAN & INSTALL WORK IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, & KEEP OPENINGS & PASSAGEWAYS CLEAR.

- ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES; AN ACCURATE RECORD OF ALL WORK AS ACTUALLY INSTALLED.

- UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS AUTHORIZED, SHALL TURN OVER TO THE OWNERS REPRESENTATIVE A RECORD SET OF PRINTS SHOWING THESE CHANGES.

- THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING, OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK HEREIN SPECIFIED.
- ALL OPENINGS THROUGH STRUCTURALLY SUPPORTED SLABS MUST BE COREBORED, SLEEVED, GROUTED, SEALED AND MADE WATERPROOF. SLEEVES MUST EXTEND AT LEAST 2" AFF.

ALL SLEEVES, OPENINGS, ETC. THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED AFTER CONDUIT INSTALLATION TO RETAIN FIRE RATING.

- ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIR.

HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL, SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE SECURED TO THE BUILDING STRUCTURE, NOT TO PIPING OR DUCTWORK.

ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE RUN IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES AND SEPARATED AT LEAST 3" FROM WATER LINES WHEREVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES.

- EVERY PART OF THE INSTALLATION SHALL BE TESTED, OPERATED AND LEFT IN PERFECT WORKING ORDER.

TEST ALL WIRES AND CABLES INSTALLED UNDER THIS CONTRACT WITH A 1,000 VOLT MEGOHM METER. ANY READINGS THAT ARE LOWER THAN REQUIRED BY GOOD PRACTICE OR APPLICABLE CODES, PROMPTLY REPLACE THE MATERIALS OR EQUIPMENT INVOLVED.

SHOULD TESTING REVEAL ANY OTHER DEFECTS, PROMPTLY CORRECT SUCH DEFECTS AND RERUN TESTS UNTIL THE ENTIRE INSTALLATION IS SATISFACTORY IN ALL RESPECTS.

- ALL ITEMS IN THE NOTES, SCHEDULES AND LEGEND MAY NOT NECESSARILY APPEAR ON THESE DRAWINGS.

- TWO COPIES OF OPERATION AND MAINTENANCE MANUALS FOR THE EQUIPMENT HEREIN INSTALLED SHALL BE GIVEN TO THE OWNER PRIOR TO ACCEPTANCE OF THE BUILDING FOR OCCUPANCY.

- GUARANTEE:

CONTRACTOR IS TO GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR AFTER THE DATE OF ACCEPTANCE OF THE PROJECT BY THE OWNER. IT IS UNDERSTOOD BY HIS ACCEPTANCE OF THE CONTRACT THAT THIS CONTRACTOR WILL MAKE GOOD ANY AND ALL WORK WHICH IN ANY WAY HAS BECOME DEFECTIVE AS TO THE QUALITY OF MATERIALS AND WORKMANSHIP FOR ANY CAUSE OTHER THAN ORDINARY WEAR AND TEAR.

FOR THE SAME PERIOD, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

- THE CONTRACTOR, BEFORE FINAL ACCEPTANCE BY THE OWNER WILL BE GRANTED, SHALL CLEAN ALL LIGHTING FIXTURES, DEVICE PLATES, SERVICE FITTINGS AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT. HE SHALL INSURE THAT ALL DIRECTORIES ARE IN PLACE WITH COMPLETED OR REVISED SCHEDULES AND ALL IDENTIFICATIONS AND MARKINGS OF EQUIPMENT, CABLES AND OTHER ITEMS ARE COMPLETED.
- THIS CONTRACTOR SHALL COORDINATE SEQUENCE OF WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY VOLTAGE OF MECHANICAL EQUIPMENT AND FLUORESCENT FIXTURE BALLASTS, PRIOR COMMENCING ANY WORK.

NO REMOVALS SHALL BE MADE WITHOUT OWNER'S APPROVAL. ALL EXISTING EQUIPMENT, MATERIALS, ETC. THAT ARE NOT TO BE REUSED SHALL BE REMOVED COMPLETELY AND DISPOSED OF BY THIS CONTRACTOR.

- IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY, PRIOR TO ANY INDIVIDUAL CIRCUITS INSTALLATION, TO VERIFY WITH ALL OTHER TRADES CONCERNED THAT THE CIRCUIT WITH DEVICES AS DRAWN IS ADEQUATE IN SIZE AND MAKE-UP FOR THE MECHANICAL, AND/OR KITCHEN EQUIPMENT TO BE INSTALLED. IF ANY CONFLICT IN VOLTAGE, PHASE OR LOAD IS ENCOUNTERED WHICH WOULD ALTER THE CIRCUIT SIZE, THIS CONTRACTOR SHALL NOTIFY THE ENGINEER OR OWNER IMMEDIATELY. FAILURE TO DO SO SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT CIRCUIT CHANGE DIRECTLY UPON THE CONTRACTOR.

- REFER TO THE MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS, UNITS AND OTHER SPECIAL EQUIPMENT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS, JUNCTION BOXES AND DISCONNECT SWITCHES, THERMOSTAT AND CONTROL WIRING.

- THIS CONTRACTOR SHALL MAKE ARRANGEMENTS FOR TEMPORARY POWER AND SHALL PAY THE COST FOR THE UTILITY CONNECTION AND SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE OF THE TEMPORARY WORK AND FOR THE REMOVAL OF SAME.

CONTRACTOR SHALL PAY ALL UTILITY CHARGES IN CONNECTION WITH THE TEMPORARY POWER.

CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL POWER EQUIPMENT USED ON THE PREMISES DURING CONSTRUCTION.

- GENERAL SCOPE OF WORK

CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, SUPPLIES, EQUIPMENT AND FEES REQUIRED TO COMPLETELY INSTALL, TEST AND PLACE THE HEREIN SPECIFIED EQUIPMENT, COMPONENTS, CONTROLS, AND SYSTEMS IN SERVICE.

COMPLETE POWER AND LIGHTING DISTRIBUTION SYSTEMS INCLUDING ALL PANELS AND COMPLETE BRANCH CIRCUIT WIRING SYSTEM

TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR CONSTRUCTION

COMPLETE LIGHTING FIXTURE INSTALLATION

COMPLETE UTILITY MOTOR WIRING SYSTEM (EXCEPT AS NOTED)

COMPLETE TELEPHONE CONDUIT SYSTEM INCLUDING CONDUIT FROM POINT OF CONNECTION TO UTILITY COMPANY SERVICE AND ALL TERMINAL DEVICES, BOXES, CONDUIT, PLATES, ETC.

PROVISIONS FOR FIRE ALARM SYSTEM AS REQUIRED BY CODE

WIRING AND FINAL CONNECTION TO ALL SIGNS AND GRAPHICS

TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION

TESTING OF ALL ELECTRICAL EQUIPMENT

WARRANTY OF ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF PROJECT CLOSE-OUT

- ELECTRICAL SERVICE

PROVIDE ELECTRICAL AS INDICATED ON THE DRAWING.

ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD OR THE POWER COMPANY SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR

CLOSELY COORDINATE ENTIRE INSTALLATION WITH THE POWER COMPANY.

CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY FOR INSTALLATION OF METERING.

THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SUPPLY TERMINALS FROM THE POWER COMPANY & FOR MALL SHOPPING CENTER POWER SOURCE. THE SERVICE EQUIPMENT SHALL MEET OR EXCEED THIS RATING PER N.E.C.

- THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL TELEPHONE UTILITY COMPANY FOR TELEPHONE SERVICE TO THE SPACE. CONDUIT SYSTEM FOR TELEPHONE DISTRIBUTION TO THE LEASED PREMISES SHALL BE PROVIDED WHERE REQUIRED FOR UTILITY COMPANY WIRES.

COORDINATE INSTALLATION OF TELEPHONE WORK AND INSTALL ALL CONDUIT FOR TELEPHONE SYSTEM.

OUTLET BOXES SHALL BE 4" SQUARE MINIMUM WITH SINGLE DEVICE COVER AND TELEPHONE PLATE.

PROVIDE INTERIOR TYPE 4-0 PLYWOOD 24" X 24" TO SERVE AS TELEPHONE TERMINAL BOARD.

- THIS CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.

ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH ALL LOCAL, STATE AND NEC CODES AND REGULATIONS.

PANELS, CONDUIT SYSTEMS, MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT ARE A PART OF THIS INSTALLATION SHALL BE SECURELY GROUNDED BOTH MECHANICALLY AND ELECTRICALLY IN ACCORDANCE WITH ALL CODES.

MAIN GROUNDING SYSTEM SHALL BE SIZED TO CONFORM WITH SECTION 250, TABLE 250-94 OF THE NATIONAL ELECTRICAL CODE. PROVIDE CONDUIT TO PROTECT GROUND WIRE FROM DAMAGE TO AN AREA 6 FT. ABOVE FLOOR.

MAKE ALL JOINTS AND CONNECTIONS OF THE CONDUIT SYSTEM TIGHT TO MAINTAIN CONTINUITY OF MECHANICAL AND ELECTRICAL GROUND THROUGHOUT ENTIRE SYSTEM.

GROUND ALL 3 WIRE RECEPTACLES TO THE OUTLET BOXES.

GROUND NEUTRAL FROM THE TRANSFORMER CONNECTED TO WATER LINE.

GROUND CONDUCTOR SHALL BE SUPPLIED IN ALL NON-METALLIC CONDUIT.

- IF REQUIRED: PROVIDE DRY-TYPE TRANSFORMER WHICH SHALL BE ENCLOSED, VENTILATED TYPE WITH KVA AND VOLTAGE RATINGS AS CALLED FOR ON THE DRAWING AS MANUFACTURED BY SQUARE-D OR EQUAL.

TRANSFORMER SHALL HAVE A MINIMUM OF 150 DEGREE, CLASS H INSULATION AND A MINIMUM OF (4) 2-1/2% TAPS BELOW AND (2) 2-1/2% TAPS ABOVE RATED PRIMARY VOLTAGE.

SOUND LEVEL SHALL BE LOW AND INSTALLATION SHALL INCLUDE VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY

- LIGHTING FIXTURES:

THE CONTRACTOR SHALL PROVIDE A NEW LIGHTING FIXTURE OF THE TYPE SPECIFIED FOR EACH LIGHTING OUTLET SHOWN WITH COMPLETE LAMPS OR TUBES. ALL FIXTURES SHALL BE HUNG AND MOUNTED IN PLACE, PROPERLY WIRED, TESTED AND LEFT READY FOR OPERATION.

CONTRACTOR SHALL VERIFY LOCATION OF ALL PARKING LOT LIGHTS, MONUMENT SIGNS, AND PYLON SIGNS ON INDIVIDUAL SITE PLAN.

- PANELBOARDS AND BREAKERS SHALL BE BY SQUARE-D OR EQUAL.

PANEL SHALL BE CIRCUITED SP THAT THE LOAD IS DISTRIBUTED EVENLY ACROSS ALL THREE PHASES.

ALL PANELBOARDS AND EMERGENCY LIGHTING DISCONNECT SWITCHES SHALL BE LABELED WITH RESPECT TO THEIR TITLE, VOLTAGE AND PHASE, I.E. PANEL "A" 120/208/0. LABEL SHALL BE PHENOLIC SHALL BE PERMANENTLY FIXED TO THE EQUIPMENT.

- LIGHTING PANELBOARD SHALL BE 3-PHASE, 4-WIRE DISTRIBUTED PHASE TYPE W/ SOLID NEUTRAL GROUND LUG, GROUND BUS AND ALL BREAKERS SHALL BE BOLTED TYPE, THERMAL MAGNETIC WITH ALL TWO OR THREE POLE BREAKERS HAVING COMMON TRIP.

CIRCUIT BREAKERS SHALL BE RATED FOR MINIMUM 10,000 AMP SYMMETRICAL SHORT CIRCUIT AT 120/208V.

CIRCUIT BREAKERS SERVING LIGHTING CIRCUITS SHALL BE RATED FOR SWITCH SERVICE.

- WIRING DEVICES:

WALL SWITCHES, SINGLE POLE, DOUBLE POLE, AND THREE WAY SHALL BE GENERAL DUTY, FLUSH, TOGGLE SWITCHES; SPECIFICATION GRADE, 20A, 120/277V, WITH SCREW TERMINALS; MANUFACTURERS SHALL BE HUBBELL, BRYANT, PASS & SEYMORE, OR LEVITON.

GROUND FAULT INTERRUPTER RECEPTACLE SHALL BE GENERAL DUTY, DUPLEX RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTER, DOWNSTREAM RECEPTACLES ON A SINGLE CIRCUIT, GROUNDING TYPE UL-RATED GLASS A, GROUP I, 20A, 120V, 60 HZ, WITH SOLID-STATE GROUND FAULT SENSING AND SIGNALING; WITH 5 MILLIAMPERES GROUND-FAULT TRIP LEVEL; IN NEMA 5-15R CONFIGURATION; MANUFACTURERS SHALL BE HUBBELL, BRYANT, PASS & SEYMORE, OR LEVITON.

DUPLEX ISOLATED GROUND TYPE RECEPTACLE SHALL BE 2-POLE, 4-WIRE, 15A STRAIGHT BLADE DEVICE WITH SEPARATE ISOLATED GROUND AND BUILDING GROUND CONNECTIONS, IN NEMA 5-15R CONFIGURATION, AS MANUFACTURED BY HUBBELL IG-5362.

WIRING DEVICE ACCESSORIES INCLUDING ALL WALL PLATES SHALL BE PROVIDED AT EACH DEVICE. WALL PLATES SHALL BE SAME COLOR AS DEVICE AND MANUFACTURED AS A COMPANION TO THE DEVICE.

ANY ELECTRICAL OUTLETS WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED. PROVIDE EITHER INDIVIDUAL GFI DEVICES OR GFI CIRCUIT BREAKERS, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS OR SCHEDULES.

PROVIDE A 120 VOLT RECEPTACLE WITHIN 25 FEET OF ALL HVAC EQUIPMENT ON THE ROOF.

ALL EXTERIOR RECEPTACLES AND DEVICES SHALL BE WEATHERPROOF ELECTRICAL DEVICES. DISCONNECT SWITCHES, ETC. SHALL BE SUPPORTED INDEPENDENT OF & ISOLATED FROM EQUIP. VIBRATIONS.

- PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NON-FUSED AS REQUIRED BY CODE OR SHOWN ON DRAWINGS; SWITCHES SHALL BE SQUARE-D, GENERAL ELECTRICAL, OR EQUAL.

FURNISH AND INSTALL DUAL ELEMENT CURRENT LIMITING FUSES OF TYPE AND AMPICITY DESIGNED TO PROTECT SYSTEMS AGAINST AVAILABLE SHORT CIRCUIT FAULT CURRENT.

- COORDINATE ALL EQUIP. CONNECTIONS WIEQUIP. SUPPLIER PRIOR TO ROUGH-IN. PROVIDE ADDITION FUSED DISCONNECT SWITCHES & CONTROLS, IF OVERCURRENT PROTECTION OR CONTROLS ARE NOT INTEGRAL. WARNITS.

ALL ELECTRICAL EQUIP. ON ROOF OR OUTSIDE THE BLDG. SHALL BE IN NEMA-3R OR NEMA-4 ENCLOSURES.

ALL EQUIP. SHALL BE FUSE SIZED PER MANUF. RECOMMENDATIONS & U.L. APPROVAL.

ALL VIBRATING EQUIP. CONN. SHALL BE SEAL TYPE FLEX, 30" MAX.

STARTERS AND RELATED WIRING SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR. OVERLOAD UNITS SHALL BE INSTALLED AS PER NAME PLATE DATA ON EQUIPMENT, EXCEPT FOR SUCH ITEMS AS ARE NORMALLY SUPPLIED WITH STARTERS INSTALLED (HVAC UNITS, DISHWASHERS ETC.), AT THEIR POINT OF MANUFACTURE, ALL STARTERS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR WILL MOUNT ALL SUCH STARTERS, AS DIRECTED, FURNISHING SUPPORTING STRUCTURES WHERE NECESSARY.

ALL REMOTE EQUIPMENT ON ROOF OR GROUNDS SHALL HAVE A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT. FURNISH FUSED DISCONNECTS AS REQUIRED BY N.E.C.

FULL LOAD AMPS (FLA) SIZES ARE BASED ON SPECIFIED EQUIP. DATA. CONTRACTOR SHALL VERIFY NAMEPLATE FLA OF EQUIP. SUPPLIED & COORDINATE ACCORDINGLY PER EQUIP. SUPPLIERS RECOMMENDATIONS.

- CONDUIT SHALL BE STANDARD STEEL, RIGID, IMC OR EMT (THIN WALL) ACCORDING TO LOCAL CODE.

ALL CONDUIT & J-BOXES SHOWN SHALL BE CONCEALED WHEN POSSIBLE. WHEN NOT POSSIBLE, CONDUIT & J-BOXES MAY BE SURFACE MOUNTED W/ PERMISSION OF THE ARCHITECT.

INSULATE ALL CONDUIT PASSING THROUGH WALK-IN COOLER, FILL AROUND CONDUIT WITH DUCT-IN SEAL WHERE IT PASSES THROUGH COOLER WALL OR CEILING.

ALL EXTERIOR CONDUIT FOR WIRING SHOULD BE MINIMIZED BY ROUTING IN CEILING SPACE. NO EXTERIOR CONDUIT WILL BE ACCEPTED, UNLESS OTHERWISE NOTED.

PAINTING OR ELECTRICAL CONDUITS, ETC., IF REQUIRED, WILL BE BY THE GENERAL CONTRACTOR.

- RACEWAYS SHALL BE SURFACE METAL TYPE OF THE SIZE AND CHANNEL REQUIRED FOR SERVICE. CONSTRUCTED OF GALVANIZED STEEL WITH SNAP-ON COVERS, WITH 1/8" MOUNTING SCREW KNOCKOUTS IN BASE APPROXIMATELY 8" O.C. PROVIDE FITTINGS INDICATED WHICH MATCH AND MATE WITH RACEWAY. FINISH WITH MANUFACTURERS STANDARD PRIME COATING SUITABLE FOR PAINTING.

- OUTLET BOXES AND COVERS SHALL BE ONE PIECE, GALVANIZED STEEL, JUNCTION BOXES, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE AND SIZE.

- ALL FEEDERS & BRANCH CIRCUITS SHALL BE THRU/THRU (90° C) DESIGN IS BASED ON COPPER CONDUCTORS & ALL BRANCH CIRCUIT WIRING SHALL BE COPPER. ALL WIRING SHALL BE IN CONDUIT OR MC TYPE.

ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES.

ADDITIONAL CONDUCTOR SPECIFICATIONS:

#10 AND SMALLER - SOLID WITH SINGLE BRAID.

#8 AND LARGER - STRANDED WITH AT LEAST DOUBLE BRAID.

MINIMUM WIRE SIZE SHALL BE #12 (#14 MAY BE USED FOR CONTROLS)

WIRES SHALL BE COLOR CODED IN KEEPING WITH NEC STANDARDS

PROVIDE IMC FOR FEEDER CONDUIT WHERE INSTALLED ABOVE GRADE. FITTINGS SHALL BE STEEL, THREADED, SET SCREW TYPE W/ INSULATED THROATS. FURNISH EMT CONDUIT OF BX OR MC FOR INTERIOR WIRING NOT SUBJECT TO PHYSICAL DAMAGE. MIN. CONDUIT SIZE SHALL BE 1/2" UNLESS SPECIFICALLY NOTED OTHERWISE. CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE & SHALL RUN PARALLEL OR PERPENDICULAR TO BLDG. WALLS OR CEILING. PCV SCHEDULE 40 CONDUIT MAY BE USED FOR UTILITY FEEDERS WHERE BURIED UNDERGROUND. SEE ADDITIONAL RATES ON ELECTRICAL SERVICE SCHEMATIC.

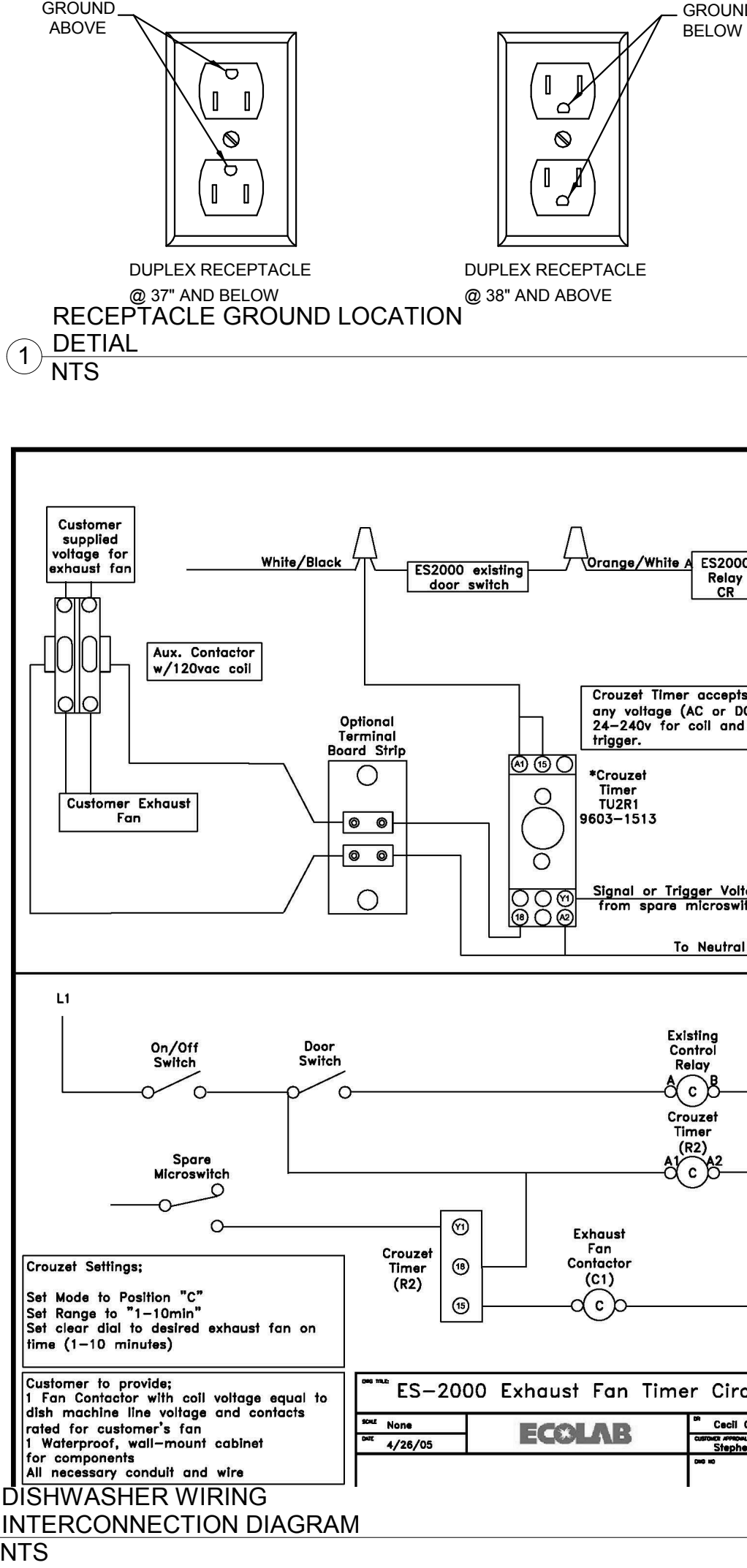
A SEPARATE GREEN INSULATED EQUIP. GROUNDING CONDUCTOR (BOND) SHALL BE INSTALLED WITH EVERY RACEWAY.

WIRING SHOWN IN THE PANEL SCHEDULE IS THE MINIMUM REQUIRED. RUNS IN EXCESS OF 90°-0" (ONE-WAY) SHALL BE SIZED PER THE N.E.C. MAXIMUM 2% V.D.

- TEST ELECTRICAL SYSTEM FOR SHORT CIRCUITS & MEGGAR TEST FEEDERS & BRANCH CIRCUIT WIRING. INSURE LOW IMPEDANCE GROUND PATH SYSTEM.

- FINALLY: IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.

THE LOCATION OF THE RECEPTACLES AND FIXTURES SHOWN ON THE DRAWING IS APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY DEVICES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COSTS.



Bakery-Cafe:

0620

SYSTEM: NEXT GEN

Project Team:

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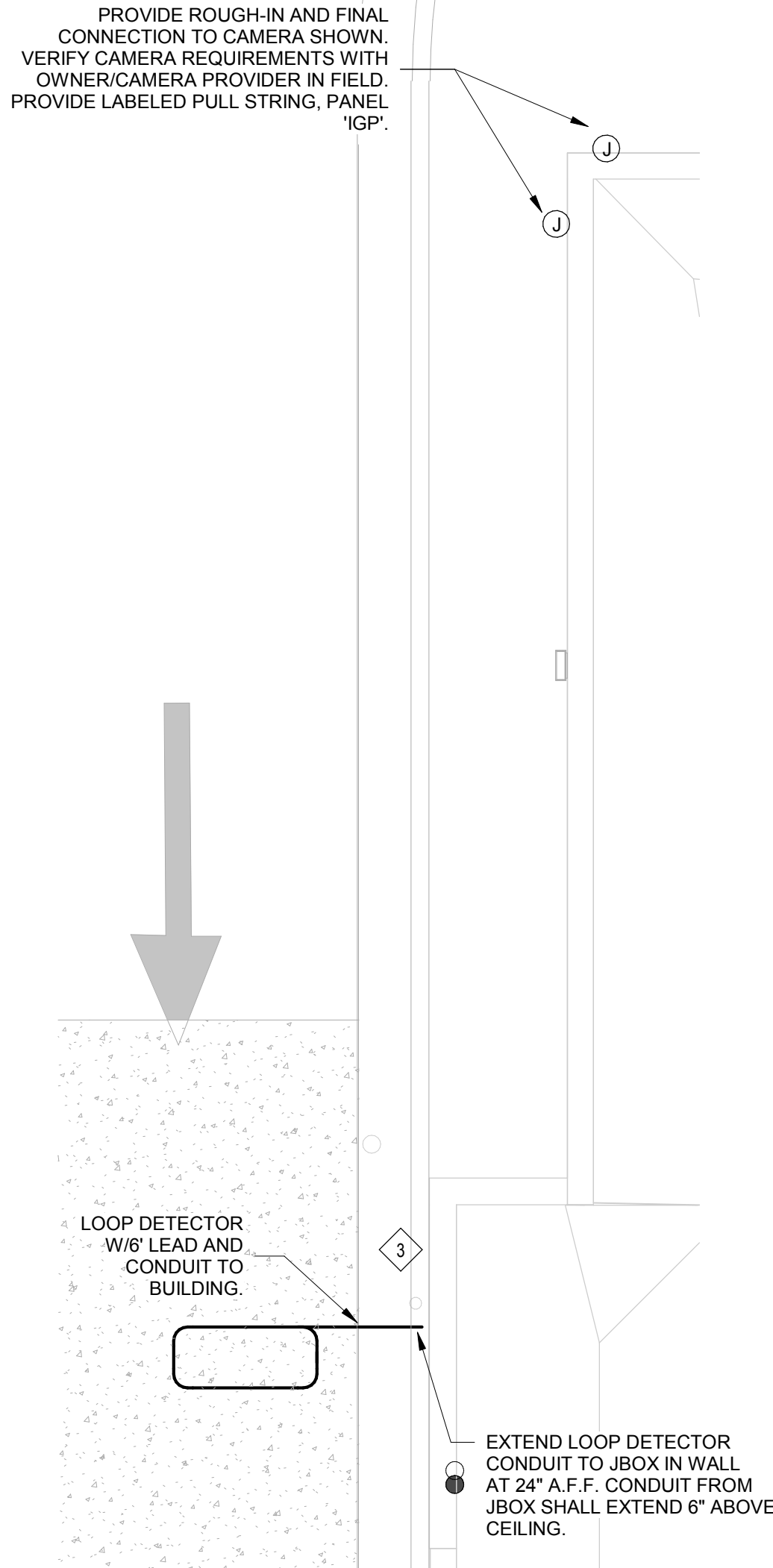
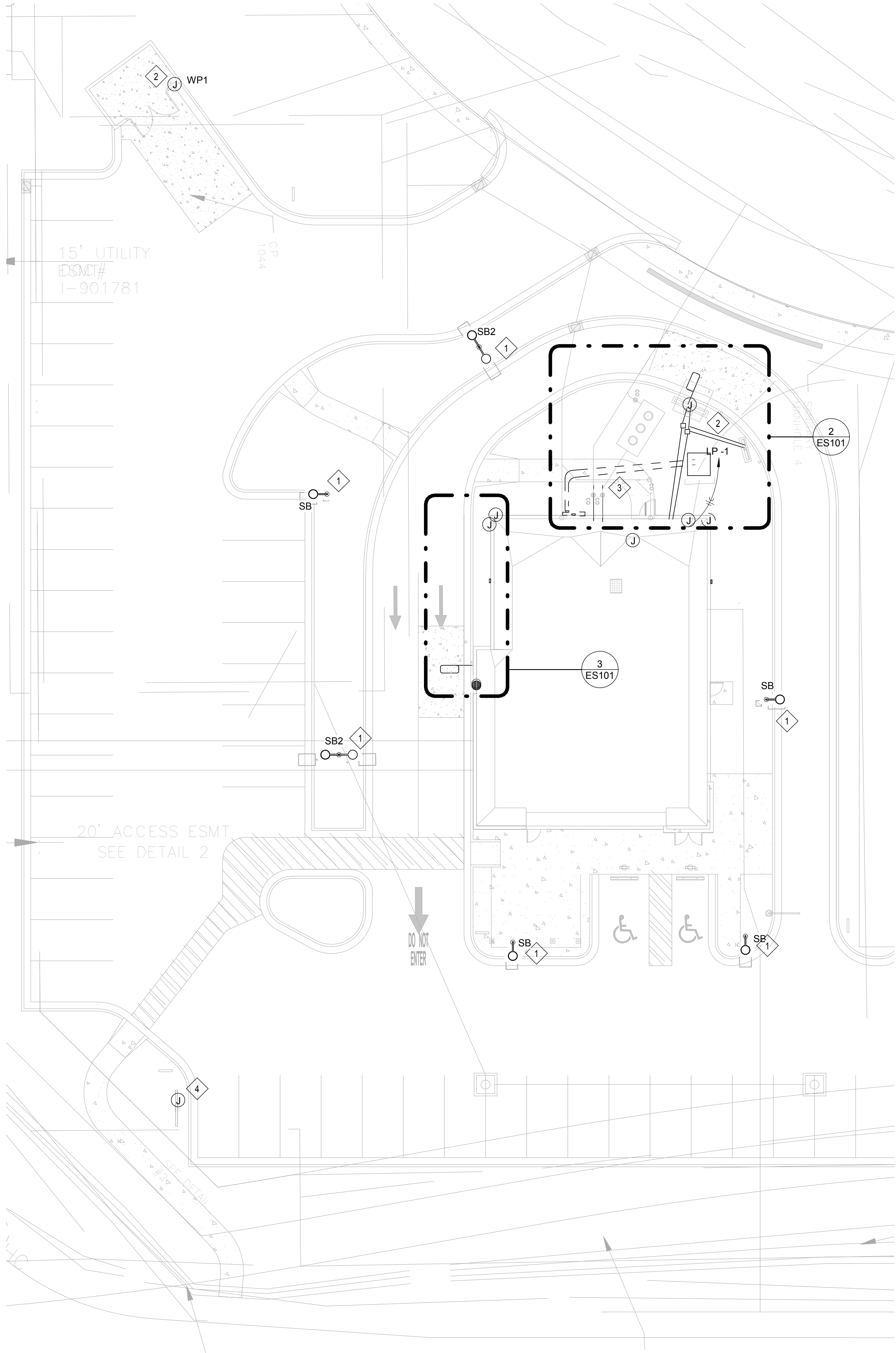




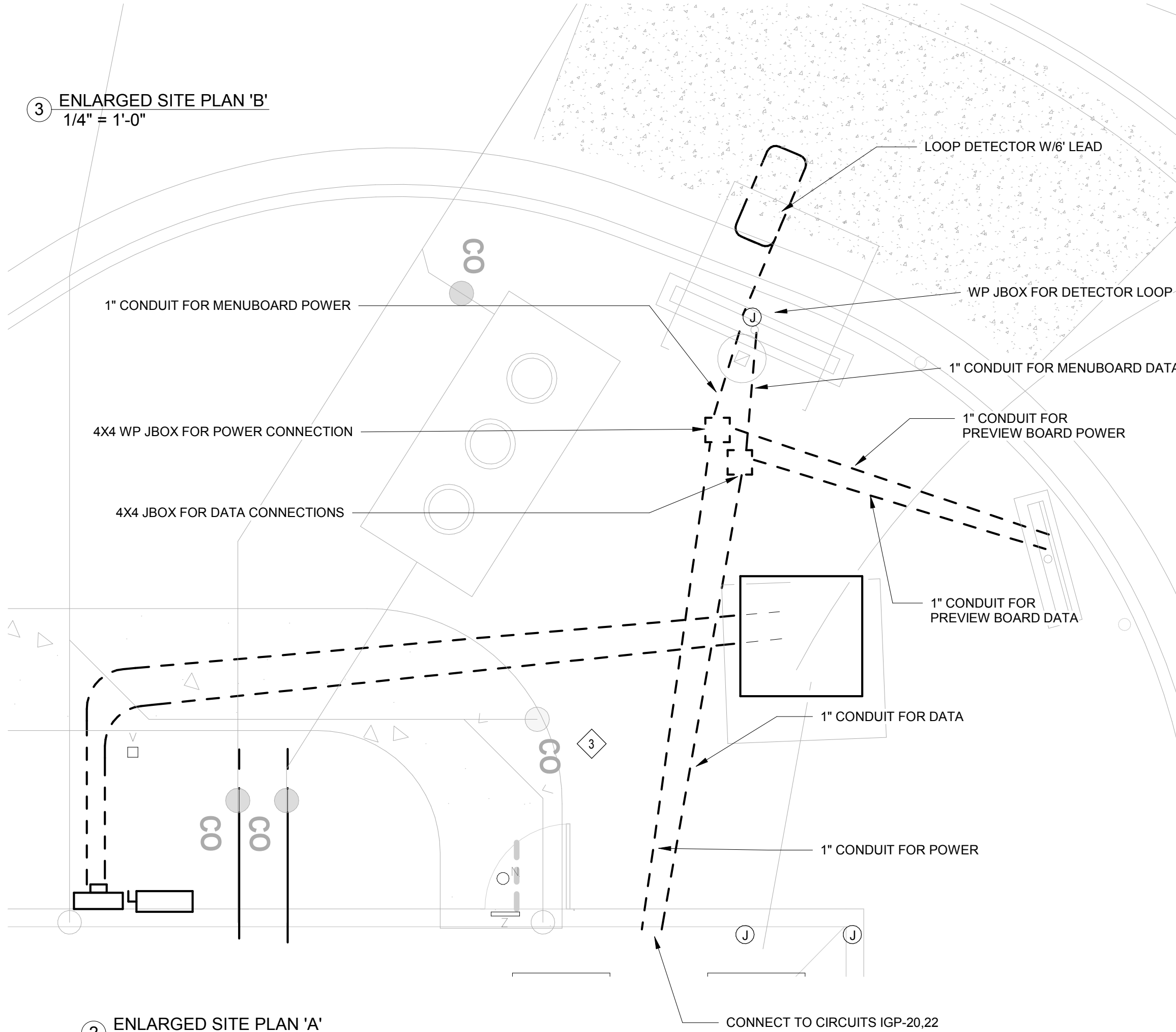
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1 | TI ELECTRICAL SITE PLAN  
1/16" = 1'-0"



3 ENLARGED SITE PLAN 'B'  
1/4" = 1'-0"



2 ENLARGED SITE PLAN 'A'  
1/4" = 1'-0"

Bakery-Cafe:  
**0620**

**SYSTEM: NEXT GEN**  
Project Team:

**CASE Engineering Inc.**  
796 Merus Court  
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Professional Seal:

STATE OF MISSOURI  
DARRELL R. CASE  
NUMBER PE-23305  
PROFESSIONAL ENGINEER  
7/18/2022

Project Title:

**Bakery Cafe #2406**  
1410 NE DOUGLAS ST  
LEES SUMMIT, MO 64086

Consultant Copyright Placeholder

**Panera BREAD**

No.	Description	Date
1	PERMIT SET - TI	7/18/2022

**ELECTRICAL SITE PLAN**

Project Number: 2406  
Drawn By:  
Author:  
Issue Date: 07/05/2022

Sheet Number: **ES101**

DPM: DC DM: CH CPM: JP